UPDATED TECHNICAL REPORT ON THE YUTY URANIUM PROJECT, REPUBLIC of PARAGUAY

Prepared for

CUE RESOURCES LTD

Prepared by

BRS Inc.
Douglas Beahm, PE, PG

And

ExplorMine Consultants

Bill Northrop PhD, Pr. Sci. Nat, FSAIMM, FGSSA, MGASA
Andre Deiss BSc (Hons), Pr. Sci. Nat. MSAIMM

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1. SUMMARY

EXECUTIVE SUMMARY

BRS Incorporated (BRS) has been retained by Cue Resources Ltd (Cue) to prepare an updated Technical Report on the Yuty Uranium Project. The purpose of this report is to provide an update of a prior technical reports and mineral estimates. Previous mineral resource estimates were completed in two dimensions. The current mineral estimate, as documented in this report, was completed using three dimensional geostatistical methods. The property covers a total of 230,650 ha located in southeastern Paraguay.

This Technical Report is an update to independent reports by Scott Wilson Roscoe Postle Associates Inc, dated May 15, 2008 (Scott Wilson (2008) and Healex Consulting Ltd, dated May 27, 2009 (Healex, 2009). This report is conformable to NI 43-101 Standards of Disclosure for Mineral Projects, as effective July 2011.

The primary author, Douglas Beahm PE, PG, was personally onsite, observed drilling operations, examined core samples, and reviewed lithologic and gamma logging procedures during the period of 12 November through 15 November, 2010.

Douglas Beahm is the President and Principal Engineer of BRS Inc., and is a Qualified Person as defined by NI 43-101.

Cue, through its wholly-owned subsidiary, Transandes Paraguay S.A. (TPSA) holds a 100% interest in the Yuty Concession.

The Yuty project area is located within the Paraná Basin, and is underlain mainly by sedimentary rocks of undivided Permo-Carboniferous age. The area was explored extensively by Anschutz Corporation (Anschutz) of Denver, Colorado in the late 1970's and early 1980's. The Paraná Basin is host to a number of known uranium deposits, including Figueira and Amorinópolis in Brazil, and the San Antonio deposit on the Yuty Concession.

CONCLUSIONS

The new mineral resource estimate was based on the development of a three dimensional geologic and Resource model. The geological model was based on a uranium radiometric drill hole value cut-off of 0.02% (eU_3O_8) at a minimum thickness of 0.1m. This facilitated the creation of the mineralized zone aerial extent. Resource estimation was completed utilizing standard geostatistical methods applied to a 3-dimensional block model in Datamine™ mining and exploration modeling software.

The classification of the Mineral resource is based on the spread in confidence around the 90% confidence limit. The current mineral resource estimate includes resources in the categories of Measured, Indicated and Inferred, as follows:

11 July 2011	Mineral Resource Category	Tonnes (million)	Grade eU_3O_8 (%)	eU_3O_8 (tonnes)	eU_3O_8 (million lbs)
	Measured	2.054	0.062	1,270	2.801
	Indicated	5.783	0.048	2,773	6.113
	Measured + Indicated	**7.837**	**0.052**	**4,043**	**8.914**
	Inferred	2.139	0.047	1,010	2.226

Notes
1. Tonnes and element lbs's have been rounded-off to the appropriate level of accuracy.
2. Resource estimate completed at a 0.02 % eU_3O_8 data and aerial boundary cut-off.

- The style of mineralization exhibits some similarities to roll-front mineralization. The classic tails and nose style mineralization is noted; however the extent of the thick "nose" style zones is far more continuous than is seen in roll-front deposits in North America. This results in the most significant mineralized zones being hosted by relatively flat-lying to gently southeast dipped sandstone units, which exhibit good lateral continuity.

- The project area was previously drilled by Anschutz in the late 1970's and early 1980's. That drilling indicated the potential presence of a significant concentration of uranium.

- Since June 2007, Cue has completed 256 drill holes in the San Antonio area. This includes 51 new drill holes completed between April and July 2008, which were drilled after the completion of the Scott Wilson (2008) resource estimate and 33 holes completed in November and December, 2010 after the completion of the 2009 resource update (Healex, 2009)

- Studies to date indicate that the deposit may be amenable to extraction by in situ recovery (ISR) methods.

- Metallurgical test work indicates that a satisfactory rate of extraction can be obtained using a sulphuric acid lixiviant.

- Aquifer testing, via pump tests, completed in 2011 and previous permeability and porosity testing on drill cores gives a preliminary indication that the parameters are comparable to successful ISR operations in other parts of the world.

- The methodologies of lithologic and radiometric logging procedures, and sampling and assaying during the recent drilling campaigns are in keeping with industry standards.

RECOMMENDATIONS

The author recommends that Cue Resources:

- Perform additional metallurgical test work to further demonstrate and refine amenability with respect to in situ and/or heap leach recovery. This should include further column leach testing.

- Complete further drilling on the San Antonio deposit with the objective of resource expansion and reclassification following the general recommendations provided in Section 14 of this report.. A program of 125 holes @ 120 m each, for a total of 15,000 m is recommended, with a 90 m offset spacing for 75 step-out holes and < 50m for infill holes. However, as drilling program proceeds the results should be compared to the current resource model and the program adjusted as appropriate.

- Carry out a Preliminary Assessment on the conceptual development of a mine at San Antonio with two options; an open pit mine with heap leach recovery and in-situ recovery.

- On completion of the above recommendations, a second phase of exploration work should commence. This will focus on the mapping, trenching, sampling and drilling at the other target areas, namely Yarati-í, San Miguel and Typychaty.

- Continue with the regional exploration program to assess the exploration potential for uranium mineralization within its vast mineral lands in southeastern Paraguay. The objective of this work is to discover uranium mineralization similar to known roll-front type deposits.

Cue Resources has prepared a preliminary budget for 2011/2012 in the order of US$4.0 million. The author has reviewed this budget and concludes that it is of sufficient magnitude to recommendations as stated herein.

TABLE 1-1 RECOMMENDED EXPLORATION PROGRAM AND BUDGET FOR 2011/2012

Budget	US$
Permeability test	20,000
Column Leach Testing	100,000
Drilling/Logistics – San Antonio	2,000,000
Preliminary Assessment	100,000
Annual land payments	255,000
Environmental baseline	80,000
Staff (Paraguay/Canada)	240,000
Legal (Paraguay /Canada)	80,000
Consultants	100,000
Travel	200,000
Asuncion office	60,000
G&A	400,000
Sub-total	3,619,000
Contingency @ 10%	361,900
TOTAL	**3,980,900**

TECHNICAL SUMMARY

OBJECTIVE

Cue Resources' objectives for the Yuty Uranium Project area in southeastern Paraguay are to demonstrate the economic parameters for the San Antonio deposit and to discover additional, similar uranium deposits. The target is roll-front style uranium deposits that bear some similarities to the uranium deposits of the Powder River Basin, Wyoming, (Healex, 2009).

PROPERTY STATUS

Within the Yuty Uranium Project, the San Antonio area is at the pre-development stage. Other parts of the Yuty Property are at an intermediate stage of exploration, with extensive regional exploration work, followed by reconnaissance scale drilling. Cue Resources owns a 100% interest in the Property through its ownership of Transandes Paraguay S.A., a wholly-owned subsidiary of Cue.

Title to the concessions is held through a "Mineral Concession Contract" with the Republic of Paraguay, ratified by Law 3575/08 which grants mining rights for a minimum period of 20 years (Healex, 2009).

LOCATION and ACCESS

The Yuty Uranium Project is located approximately 200 km east and southeast of Asunción, the capital of Paraguay. The extensive property lies within an area of low relief, ranging from 5 m to 20 m. The elevation in the low-lying areas is in the order of 125 m above mean sea level. The geographic coordinates of the central part of the Property, where the bulk of past exploration has been carried out (San Antonio area in Block 1), are approximately 26°37'S and 56°20'W.

The Yuty Uranium Project area is accessible by road or by fixed wing aircraft. The project area is adjacent to Yuty, a town of approximately 3,000 people. Supplies and heavy equipment are brought to the community by trucks.

The climate in southeastern Paraguay is sub-tropical to temperate, with little difference in seasonal temperature. The mean temperature during the winter months (June to September, the "dry season") is 20°C and ranges from 15°C to 30°C. The mean temperature during the summer months (December to March, the "rainy season") is 30°C and ranges from 25°C to 35°C. The average annual precipitation ranges from 75 cm to 150 cm. Exploration in the Yuty Uranium Project area may be carried out throughout the year, although there may be heavy rains during the summer months, which affect transportation and exploration activities.

Local infrastructure is available at Yuty and in nearby towns. Infrastructure at the site includes electrical power, a cell phone network, and road building equipment. Water, both industrial and potable, is drawn from wells. The core drilling equipment has been imported from Peru, since there are currently no core drills available in Paraguay. Rotary drilling rigs are available in Asunción.

The area is covered with extensive lateritic and saprolitic material, and outcrops are rare. Vegetation consists predominantly of tall grass and fruit trees, typical of the pampas in Argentina and Paraguay. Overburden cover ranges from 5 m to 15 m.

The land in the southeastern part of Paraguay, and in particular the Yuty area, is used mainly for agriculture by the local villagers. Wildlife in the area includes various species of frogs, turtles, snakes, birds (including white swan, parrots, hawk, field dove, Tucán and owl), foxes, ocelot (wild cat), tapir, wild boar, deer, and various species of insects.

HISTORY

Exploration for uranium in Southeastern Paraguay was started in 1976 by Anschutz, after the Concession Agreement between the Government of Paraguay and Anschutz in December 1975. This agreement allowed Anschutz to explore for "all minerals, excluding oil, gas, and construction materials." Previously intermittent exploration had been carried out by international oil companies, with insignificant results. The region, however, is known for its limited mining activities and production of high grade iron ore, mineral pigments clays, limestone, sandstone, sand and gravel by indigenous people.

The initial uranium exploration by Anschutz in 1976 covered an exclusive exploration-exploitation concession of some 162,700 km^2, virtually the whole eastern half of Paraguay. This was followed by a program of diamond drilling and rotary drilling over selected target areas. In total, some 75,000 m of drilling were completed from 1976 to 1983. Data is available for a total of 257 drill holes in the San Antonio area. Anschutz carried out exploration on behalf of a Joint Venture with Korea Electric Power Corporation (Kepco) and Taiwan Power Company (Taiwan Power). Anschutz intersected uranium mineralization in drill holes ranging from 0.115% U_3O_8 over 10.2 m to 0.351% U_3O_8 over 0.3 m in sandstones and siltstones. Work was suspended in 1983 due to the slump of the price of uranium, and no further work was done until the Option Agreement between Cue Resources and Transandes transpired, in mid-2006.

During the exploration programs by Anschutz, airborne radiometric surveys, regional geological mapping and geochemical sampling were the main exploration tools for uranium exploration in the southeastern part of Paraguay. This was followed-up by core and rotary drilling, in two phases. The initial phase was to drill wide-spaced reconnaissance diamond drill holes along fences spaced approximately 16 km apart. The objective of this initial phase was to obtain stratigraphic information across an inferred host trend. The second phase was to drill rotary holes, spaced approximately 0.5 km apart, within and between the fences of reconnaissance holes, to establish and outline target areas. All drill holes were logged and probed by gamma, neutron and resistivity surveys.

Exploration work by Anschutz outlined several large target areas including what is now the Yuty Project. These include the San Antonio, San Miguel, Typychaty and Yarati-í targets near and around the village of Yuty, approximately 200 km southeast of Asunción.

In July 2006, Cue Resources signed an Option Agreement with Transandes to earn a 70% interest in the Yuty Prospecting License (Central Block) and started a systematic exploration program including rotary and diamond drilling in the San Antonio area.

Subsequently Cue purchased the remaining 30% and completed the earn-in requirements. Cue now owns 100% outright.

GEOLOGICAL SETTING AND MINERALIZATION

The Yuty Uranium Project area is situated within the western part of the Paraná Basin in Southeastern Paraguay, which also hosts the Figueira uranium deposit in Brazil. The area is underlain by upper Permian-Carboniferous (UPC) continental sedimentary rocks.

The exploration methodology applied during past programs has been to determine the favourable host rocks of the UPC sequence and to explore favourable areas of the host sandstone.

Continental sedimentary units of the Independencia Formation (of the UPC) are known to have high potential for uranium exploration in eastern Paraguay. The source of the uranium is thought to be the Lower Permian-Carboniferous (LPC) Coronel Oviedo Formation, which is correlated with the Itataré Formation underlying the Rio Benito Formation in Brazil. Occasional diabase sills and dikes intrude the sedimentary rocks, such as at the San Antonio area near the village of Yuty. Outcrops are rare, mostly along road cuts, and mapping is done by drilling.

The rocks of the Yuty area are very gently east dipping and undeformed. Occasional northwest and northeast trending normal faults cut the sedimentary units.

Exploration work to date suggests that the uranium mineralization within the San Miguel Formation is stratabound and possibly syngenetic or diagenetic in origin. Recent interpretation of exploration data suggests that areas of limonite+hematite alteration within the grey-green, fine-grained sandstones in the San Antonio area have characteristics similar to the alteration assemblages present at roll front-type uranium deposits of the Powder River basin in the United States (Healex, 2009).

EXPLORATION

In late July 2006, Cue Resources signed an agreement with the shareholders of Transandes Paraguay S.A. to option the Yuty Property, followed by a formal earn-in agreement signed on November 6, 2007, and started a systematic uranium exploration program. This included a compilation of all previous exploration data, including lithologic and radiometric logs, stored at Ministry of Public Works (MOPC) in Asunción. Since June 2007, Cue Resources has been carrying on a drilling program at San Antonio as well as evaluating other uranium target areas on the Yuty Property. The most recent drilling completed in the San Antonio area was in November and December, 2010 at which time 33 holes were completed for a total of 3,596 meters. Of the 33 holes 5 were not successfully completed. Of the 28 holes that reached the target, 10 had intersections greater than a GT (grade x thickness) of 0.10 m% eU3O8, and an additional 13 had intersections exceeding a GT of 0.03 m% eU3O8.

DRILLING AND SAMPLING

Approximately 75,000 m of drilling (core as well as rotary) were completed by Anschutz in previous campaigns.

The procedures used during the diamond and rotary drilling programs were drafted by Anschutz technical personnel. Healex reviewed all of drill logs at the MOPC in Asunción and is of the opinion that the lithologic logging procedures are comparable to Western industry standards.

Detailed information on sampling methods and approach during the Anschutz drilling campaigns is not available. Nevertheless, previous Technical Reports, Scott Wilson (2008) and Healex (2009) have concluded that sampling procedures were comparable to Western industry standards of that time. Mr. Beahm concurs with this determination.

Since mid-July 2007 Cue Resources has completed over 31,000 m of drilling at the San Antonio target area, in 256 drillholes. Most of the holes were collared with a rotary drilling rig, surface casing was then installed, and the holes were drilled to completion depth with a diamond rig.

In 2010, 33 holes were completed for a total of 3,596 meters. Of the 33 holes 5 were not successfully completed. Of the 28 holes that reached the target, 10 had intersections greater than a GT (grade x thickness) of 0.10 m% eU3O8, and an additional 13 had intersections exceeding a GT of 0.03 m% eU3O8.

To date, diamond drilling totals approximately 16,500 m, and rotary drilling approximately 15,400 m. For diamond drill holes, HQ core was retrieved and the drilling contractor is Empire Drilling S.A. of Quito, Ecuador. For rotary drilling, the contractor is 9 de Junio S.A. (Primo) of Asunción, Paraguay.

Douglas Beahm PE, PG, President and Principal Engineer of BRS Inc., was personally onsite during the period of 12 November through 15 November, 2010.

During this time period Mr. Beahm:

- reviewed existing drill data,
- reviewed the current technical reports for the projects by RPA and Healex,
- confirmed evidence of past drilling in the field,
- confirmed locations of past drilling are reasonably located for the purposes of resource calculations,
- reviewed the current planned exploration program,
- assisted in the field calibration of the Mount Sopris geophysical logging tool,
    - Subsequent to the field visit Mr. Beahm secured calibration factors from the manufacturer of the logging unit and forwarded this information to field personnel.
- observed the geophysical logging of an existing drill hole No. SA 1014,
- reviewed the core from this hole, No. SA 2014,
- observed the drilling practices and core handling procedures for new hole No. 1240, and reviewed the geophysical log data from new hole 1240.

Mr. Beahm reviewed the drill logs and is of the opinion that the lithologic and radiometric logging procedures are in keeping with western industry standards.

DATA VERIFICATION

During early exploration in the area by Anschutz, data verification was done by company geologists. Data on quality assurance and quality control (QA/QC) procedures, however, are not available. Recently, Cue Resources has carried out a review of the calculation of equivalent uranium grades (eU_3O_8) from a number of Anschutz holes. The Cue Resources and Anschutz results are comparable. Cue Resources has established detailed procedures for technical staff for the recording of field data.

During the recent site visit, Mr. Beahm reviewed the Cue Resources exploration results and the methodology of lithologic and radiometric logging of drill holes by Cue Resources crews. Mr. Beahm is of the opinion that the field practices used by Cue Resources crews are in keeping with industry standards.

MINERAL RESOURCES

The Mineral Resources of the San Antonio area of the Yuty Uranium Project are contained within a sub-horizontal layer of fine-grained sandstone, Massive Sand Unit of the UPC. In the previous estimate by Scott Wilson (2008), this zone was divided into two layers, with the large majority of the resource being contained in Zone 1, the upper layer. Healex (2009) determined that it was more appropriate to combine the two layers, using a two-dimensional approach to deposit modeling.

The new mineral Resource estimate was based on the development of a three dimensional geologic and Resource model. The geological model was based on a uranium radiometric drill hole value cut-off of 0.02% (eU_3O_8) at a minimum thickness of 0.1m. This facilitated the creation of the mineralized zone aerial extent. Resource estimation was completed utilizing standard geostatistical methods applied to a 3-dimensional block model in Datamine™ mining and exploration modeling software.

The classification of the Mineral resource is based on the spread in confidence around the 90% confidence limit. The current mineral resource estimate includes resources in the categories of Measured, Indicated and Inferred, as follows:

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	Indicated	5.783	0.048	2,773	6.113
	Measured + Indicated	**7.837**	**0.052**	**4,043**	**8.914**
	Inferred	2.139	0.047	1,010	2.226

Notes
1. Tonnes and element lbs's have been rounded-off to the appropriate level of accuracy.
2. Resource estimate completed at a 0.02 % eU_3O_8 data and aerial boundary cut-off.

BRS prepared the drill hole and geologic databases utilized in the development of this estimate. The mineral resource estimation was completed by ExplorMine Consultants, Bill Northrop PhD, Pr. Sci. Nat, FSAIMM, FGSSA, MGASA and Andre Deiss BSc (Hons), Pr.

Sci. Nat. MSAIMM. ExplorMine's REPORT DETAILING THE GEOSTATISTICAL APPROACH TO THE MINERAL RESOURCE ESTIMATE FOR THE YUTY PROJECT, PARAGUAY, DATED 11 JULY, 2001, is incorporated as Appendix A of this Technical Report.

EXPLORATION POTENTIAL

Except for the San Antonio area, the Yuty Uranium Project is at an early-to intermediate stage of exploration. A number of areas of anomalous concentrations of uranium occur in UPC sedimentary rocks within the property area. Past work was focused on developing roll front-type targets. Preliminary interpretation of the drill results in the San Antonio area suggests that the basal sandstone unit (San Miguel Formation) is a favourable host for uranium mineralization. These results also suggest that the diabase sill overlying the San Miguel Formation may have acted as a trap for diagenetic fluids and provided a horizontal conduit for the circulation of the diagenetic fluids and emplacement of uranium mineralization near the margin of a topographic high (gentle hill) below the diabase sill.

There are other areas of anomalous uranium within the Yuty Uranium Project area, such as the Northern Block. These uranium anomalies are reported to display characteristics that are similar to the ones close to the Town of Yuty (Healex, 2009).

Mr. Beahm did not review exploration of other data outside the San Antonio area. The updated resource estimate, conclusions, and recommendations focus solely on the San Antonio area.

2. INTRODUCTION AND TERMS OF REFERENCE

BRS has been retained by Cue Resources Ltd. (Cue) to prepare an Updated Technical Report on the Yuty Uranium Project. The purpose of this report is to update a previous independent Technical Reports on the property by Scott Wilson Roscoe Postle Associates Inc (Scott Wilson (2008)), dated May 15, 2008, which reported an initial resource estimate for the property and the subsequent report by Healex (2009).

This Technical Report is conformable to National Instrument 43-101 Standards of Disclosure for Mineral Projects. Douglas Beahm PE, PG is an independent Qualified Person, as defined by NI 43-101 and was personally onsite during the period of 12 November through 15 November, 2010.

Cue, through its wholly-owned subsidiary, Transandes Paraguay S.A. (TPSA) holds a 100% interest in the Yuty Concession.

The Yuty Project comprises 230,992 ha in southeastern Paraguay. The Yuty project area is located within the Paraná Basin, and is underlain mainly by sedimentary rocks of undivided upper Permo-Carboniferous age (UPC). The area was explored extensively by Anschutz Corporation (Anschutz) of Denver, Colorado in the late 1970's and early 1980's. The Paraná Basin is host to a number of known uranium deposits, including Figueira and Amorinópolis in Brazil, and the San Antonio deposit on the Yuty Concession.

In late July 2006, Cue Resources signed an agreement with the shareholders of Transandes Paraguay S.A. for an option to earn a 70% interest in the Yuty Property, followed by a formal earn-in agreement signed on November, 2007, and started a systematic uranium exploration program. In September 2007 Cue purchased the remaining 30% from the original property vendors.

In September 2008, Cue completed its earn-in obligations and therefore became the 100% owner of the Yuty property, through its wholly-owned subsidiary, Transandes Paraguay, S.A. (TPSA).

Title to the concessions is now held through a "Mineral Concession Contract" with the Republic of Paraguay, which grants mining rights for a minimum period of 20 years. This Mineral Concession Contract was signed into Law 3575/08 as an Act of Congress, in August 2008. The Law calls for payment of a 2.5% royalty to the Republic on all production, based on the FOB value of the production.

The Yuty Uranium Project area is underlain by Permian and Carboniferous sedimentary rocks of the Paraná basin, which hosts the Figueira uranium deposit in Brazil, and includes a number of uranium occurrences hosted by Upper Permian to Carboniferous (UPC) sandstones.

Currently, Cue is the operator of the project. Until the transfer of ownership in the property, the project was operated by SEMIN S.A. (a subsidiary of the property vendors), with Búscore Consulting de Paraguay S.A. (Búscore) providing contract exploration services to SEMIN S.A. and Cue.

Information for this Technical Report was supplied by Cue, and by SEMIN S.A. Technical documents and other sources of information are listed at the end of this report.

BRS has relied on technical data contained in the reports of past exploration and title documents supplied by Cue and the previous Technical Reports by Scott Wilson (2008) and Healex (2009).

Units of measurement used in this report conform to the SI (metric) system. All currency in this report is in United States dollars (US$) unless otherwise noted. The list of abbreviations used in this report is shown in Table 4-1.

TABLE 4-1 LIST OF ABBREVIATIONS

Cue Resources – Yuty Uranium Project

˚C	degrees Celsius
cm	centimetre
cps	counts per second
eU_3O_8	equivalent U3O8
gal	US gallon
g	gram
g/cm^3	grams per cubic centimetre
g/L	grams per litre
GT	grade x thickness
ha	hectare
ISR	in situ recovery
km	kilometre
km^2	square kilometres
M	mega (million)
m	metre
mg	milligram
mD	milliDarcie
t/m^3	tonnes per cubic metre
US$	United States dollar

3. RELIANCE ON OTHER EXPERTS

This report has been prepared by BRS. The information, conclusions, opinions, and estimates contained herein are based on:

- Information available to BRS at the time of preparation of this report,
- Assumptions, conditions, and qualifications as set forth in this report, and
- Data, reports, and other information supplied by Cue Resources.
    - Healex Consulting Ltd., 2009, Technical Report on the Yuty Uranium Project, Republic of Paraguay, May 27, 2009.
    - Wilson, Scott, Roscoe, Postle, and Associates, "Technical Report on the Yuty Uranium Project, Paraguay", May 15, 2008.

For technical information on the Yuty Uranium Project, BRS has relied on old technical reports by the Anschutz Corporation (Anschutz), the operator of a joint venture uranium project in the general area from the late 1970s to early 1980s), on legal and technical documents provided by SEMIN S.A. and on results of recent exploration and test work by Cue Resources.

For title information on the Yuty Uranium Project, BRS has relied on information supplied by Transandes and Peroni, Sosa, Tellechea, Burt & Narvaja Abogados, a legal firm in Asunción. Specifically Mr. Esteban Burt provided the information included in Section 4 of this report with respect to mineral exploration and prospecting licenses and permits, the mineral concession, and environmental licenses and permits.

For in situ hydrologic properties, Hydro-Engineering report, "Aquifer Properties and Estimated Recovery and Injection Rates for the Yuty Uranium Project", April, 2011

For the estimation of mineral resources, BRS was assisted by ExplorMine Consultants.

Except for the purposes legislated under provincial securities laws, any use of this report by any third party, is at that party's sole risk.

4. PROPERTY DESCRIPTION AND LOCATION

Mr. Esteban Burt, local counsel to CUE Resources in Paraguay, provided the information included in Section 4 of this report with respect to mineral exploration and prospecting licenses and permits, the mineral concession, and environmental licenses and permits. In summary all financial and other obligations related to the mineral concession for the Yuty project have been met. All environmental licenses and permits are in good standing.
Except for the San Antonio area, the Yuty Uranium Project is at an early-to intermediate stage of exploration. The San Antonio area is at an advanced stage, since it has received considerable drilling in the past by Anschutz and recently by Cue Resources.

PROSPECTING PERMITS

The Yuty Property (the Property) consists of four large mineral concessions covering a total area of 230,992 ha in southeastern Paraguay. The property is located approximately 200 km southeast and east of Asunción, the Capital of Paraguay, and is near the town of Yuty. It is situated within the Districts of Fulgencio Yegros, Yuty and Leandro Oviedo, Departments of Cazaapá and Itapua. They consist of:

- Central Block (Block 1), covering 100,842 ha. TheProspecting Permit (PP) was issued by Ministério de Obras Públicas y Comunicaciones (MOPC File No. 16835/2006) by Resolution No. 382 dated July 7, 2006, and corrected by MOPC Resolution No. 870 dated November 17, 2006 (Burt, 2007).
- Block No. 2, situated east of the Central Block, covering 48,200 ha. This is a PP issued by MOPC (File No. 13197/2006) Resolution No. 849 dated November 15, 2006 (Burt, 2007).
- Yuty Blocks No. 3 and 4, referred to earlier as Northern Block: Blocks N1, N2 and N3, and Southern Block (Block S), together covering 81,950 ha. These are PPs issued by MOPC (File Nos. 18704/2006, 18777/2006, 19141/2006, and 24574/2006). MOPC issued these PPs by Resolution No. 322 dated April 30, 2007 (Burt, 2007).

ENVIRONMENTAL LICENCES

Transandes Paraguay S.A. received environmental licenses to conduct exploration for minerals issued by the Secretaria del Ambiente (SEAM) on the Property, as follows :

- For Yuty Block 1: SEAM Resolution DGCCARN No. 1510/2009 dated August 21, 2009 for a two year period. Renewal for another two year period was filed July 14, 2011. License is valid as of filing date per Decree 4066/10..
- For Yuty Block 2: SEAM Resolution DGCCARN No. 1500/2009 dated August 20, 2009 for a two year period. Renewal for another two year period was filed July 14, 2011. License is valid as of filing date per Decree 4066/10.
- For Yuty Blocks 3 and 4: SEAM Resolution DGCCARN No. 71509/2009 dated August 21, 2009 for a two year period. Renewal for another two year period was filed July 14, 2011. License is valid as of filing date per Decree 4066/10.

EXPLORATION PERMITS

Transandes Paraguay S.A. received exploration permits to carry out mineral exploration on the Yuty grounds issued by the MOPC Resolution No. 356 dated May 16, 2007, which authorized Transandes Paraguay S.A. to initiate the exploration phase in the areas granted for mineral prospecting by MOPC Resolutions No. 382/2006, No. 849/2006, and No. 322/2007 for the Yuty 1, 2, 3 and 4 Blocks. Subsequently, Resolution No. 356/07 determined that the effective date of the Exploration Period was May 16, 2007.

The Exploration Period under the Mineral Concession Contract approved by Law 3575/08 was extended for a one year period until November 11, 2011 by MOPC Resolution No. 2401 dated November 11, 2010

Transandes Paraguay S.A. must comply with Mining Law 3180/07 and environmental laws, as well as pay the corresponding land fees and post the required bonds and insurance policies, as discussed below.

MINERAL EXPLORATION AND EXPLOITATION CONCESSION CONTRACT

A letter dated February 26, 2007, addressed to Transandes Paraguay S.A., MOPC acknowledges the application made by Transandes Paraguay S.A. for a "Mineral Concession for Prospecting, Exploration and Exploitation of Metallic, Non Metallic Minerals and Gems" under file MEU No. 4056/07 (Burt, 2007).

Cue Resources then owned a 30% interest and is earning the remaining 70% interest in the four Yuty Prospecting Licences from Transandes Paraguay S.A.. Transandes Paraguay acquired these mineral concessions by map staking and approval by the MOPC, as described below.

The mineral concessions were initially contained in a rectangular area known as a prospecting licence or "Premiso de Investigación y Cateo de Minerales Metálicos, no Metálicos y Gemas a la Empresa Transandes Paraguay S.A." issued by Ing. Pánilo Benítez E., Minister, MOPC, Ing. Alfredo I. Bordón, Assistant Minister, MOPC, and Jorge Coronel, Internal Director General, SEAM. The coordinates of the vertices of the rectangular area for the prospecting license are shown in Figure 4-1.

On March 13, 2008, Transandes Paraguay S.A. entered into a Mineral Concession Contract with the Republic of Paraguay for the exploration and exploitation of metallic and non-metallic minerals and precious and semi-precious gems in an area located in the Oriental Region of the country.

MINERAL EXPLORATION AND EXPLOITATION CONCESSION CONTRACT

Title to the concessions is now held through a "Mineral Concession Contract" with the Republic of Paraguay, which grants mining rights for exploration of metallic and non-metallic minerals and gems for up to a 6-year period (per Mining Law 3180/07 as amended by Law 4269/11), and for exploitation of minerals for a minimum period of 20 years. The Mineral concession Contract was approved by Congress and promulgated by the Executive as Law 3575/08 dated August 14, 2008.. The property is described in the Mining Concession Contract shown in Tables 4.1 through 4.4.

TABLE 4-1 COORDINATES OF YUTY BLOCK 1
Cue Resources Ltd. – Yuty Uranium Project, Paraguay

	UTM Coordinates	
Corner	East	North
A	540,373	7,070,126
B	581,108	7,070,126
C	581,108	7,045,456
D	540,373	7,045,456

Total: 100,842 hectares.
Topographic charts: Mbuyapey 5568; Caazapa 5668; Santa Rosa de Misiones 5667 and General Artigas 5667.

TABLE 4-2 COORDINATES OF YUTY 2 (BLOCK 2)
Cue Resources Ltd.– Yuty Uranium Project, Paraguay

	UTM Coordinates	
Corner	East	North
A	576,000	7070126
B	576,000	7,086,000
C	596,000	7,086000
D	596,000	7,070,126
E	590,000	7,070126
F	590000	7,052,000
G	581,108	7,052000
H	581108	7,070,126

Total: 48,200 hectares.
Topographic charts: Caazapa 5568; General Artigas 5667.

TABLE 4-3 COORDINATES OF YUTY BLOCK 3 (SOUTH)
Cue Resources Ltd. – Yuty Uranium Project, Paraguay

	UTM Coordinates	
Corner	East	North
A	588000	7038000
B	585000	7024000
C	575000	7024000
E	572000	7034000
F	572000	7040000
G	567000	7040000
H	567000	7045456
I	581108	7045456
J	581108	7038000

Total: 53,050 hectares

Topographic charts: Caazapa 5568; General Artigas 5667.

TABLE 4-4 COORDINATES OF YUTY BLOCK 4 (NORTH)
Cue Resources Ltd. – Yuty Uranium Project, Paraguay

	UTM Coordinates	
Corner	East	North
A	581,000	7086000
B	576000	7086000
C	576000	7082000
E	553000	7124000
F	563000	7124000
G	563000	7095500
H	566000	7095500
I	566000	7088000
J	581000	7088000

Total: 28,900 hectares.
Topographic charts: Caazapa 5568; General Artigas 5667..
Notes:

LAND TENURE

All mineral lands of the, Transandes Paraguay SA mineral concession identified above are are in good standing for the
foreseeable future subject to the terms of the Mineral Concession Contract approved by Law 3575/08..

MINERAL LICENSES

Under the Paraguay Mining Law, the Transandes Paraguay S.A, Mineral Concession is map-staked, and hence does not have physical boundaries. A map-staked exploration license may be in good standing for a 6 year period, and the exploitation license may be in good standing for a 20 year period, renewable for a 10 year period, subject to the terms of the Mineral Concession Contract. All mineral licenses are drawn using the
Universal Transverse Mercator (UTM) coordinate system.

The following is a summary
of the Mining Law, regarding mineral exploration in Paraguay (Law. 3180/07, datedApril 30 as amended by Law 4269/11, applied to the Transandes Paraguay S.A. Mineral Concession Contract approved by Law 3575/08.

Exploration Period:_ The current exploration period runs from November 11, 2010 to November 11, 2011, per MOPC Resolution 2401 dated November 11, 2010 …The exploration period may be extended at the Request of Transandes Paraguay S.A. for three

consecutive annual periods as authorized by Law 4269/07 which amends Mining Law 3180/07.

Exploration Investment Commitment: The investment commitment for the initial three year exploration period under the Mineral Concession Contract Law was USD 14,339,250. Transandes Paraguay S.A. reported to MOPC on August 4, 2011 that the total exploration expenditures were USD 16,528,295 as of that date.

The additional exploration investment required by Mining Law 3180/07 as amended by Law 4269/11, is: USD 3.00 per hectare during the fourth year; USD 3.50 per hectare during the fifth year; and USD 4.00 during the sixth year. (Art. 41(b) Mining Law 3180/07 as amended by Law 4269/11).

Exploration Land Fees: Transandes Paraguay S.A. is current with the payment of all Exploration Land Fees as of August 2011.

The annual land fees during the extension of the Exploration Period beyond November 2011, payable entirely in advance, will be as follows: fourth year, USD 2.00 per hectare; fifth year, USD 2.50 per hectare; sixth year, USD 3.00 per hectare. (Art. 44 Mining Law 3180/07 as amended by Law 4269/11)

Exploitation Period: 20 years, beginning from the start of commercial production, renewable automatically for a 10 year period provided the concessionaire is current with all of its obligations under the Mineral Concession Contract. (Art. 35 Mining Law 3180/07 as amended by Law 4269/11)

Exploitation Area: 25,000 hectares

Exploitation Land Fees: USD 2.50 per hectare. (Art. 45 Mining Law 3180/07 as amended by Law 4269/11).

Exploitation Royalty: 2.5% on FOB value of commercial production

Additional Considerations:

- There are no known environmental liabilities to which the property is subject.
- Permits to conduct the work proposed for the property have been obtained.
- Negotiations with individual landowners for local site access necessary to proceed with project development.
- There are no other known significant factors and risks that may affect access, title, or the right or ability to perform work on the property.

5. ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

For details regions accessibility, climate, local resources, infrastructure and section 5 from the Scott Wilson Roscoe Postle Associates report dated May 15, 2008, and filed on SEDAR is quoted in this section.

LOCATION

The Yuty Uranium Project is located approximately 200 km east and southeast of Asunción, the capital of Paraguay, as shown on the subsequent figure. The vast property lies within an area of low relief, ranging from 5 m to 20 m. The elevation in the low-lying areas is in the order of 125 m above mean sea level. The geographic coordinates of the San Antonio area in Block 1, the central part of the property where the bulk of past exploration has been carried out, are approximately 26°37'S and 56°20'W.

ACCESS

Access to the Yuty Uranium Project area is by roads or fixed wing aircraft. The Project area is adjacent to Yuty, a town of approximately 3,000 people. Supplies and heavy equipment is brought to the community by trucks.

CLIMATE

The climate in southeastern Paraguay is sub-tropical to temperate, with little difference in seasonal temperature. The mean temperature during the winter months (June to September, the "dry season") is 20°C and ranges from 15°C to 30°C. The mean temperature during the summer months (December to March, the "rainy season") is 30°C and ranges from 25°C to 35°C. The average annual precipitation ranges from 75 cm to 150 cm. Exploration in the Yuty area may be carried out throughout the year, although there may be heavy rains during the summer months, which affects transportation and exploration activities.

INFRASTRUCTURE

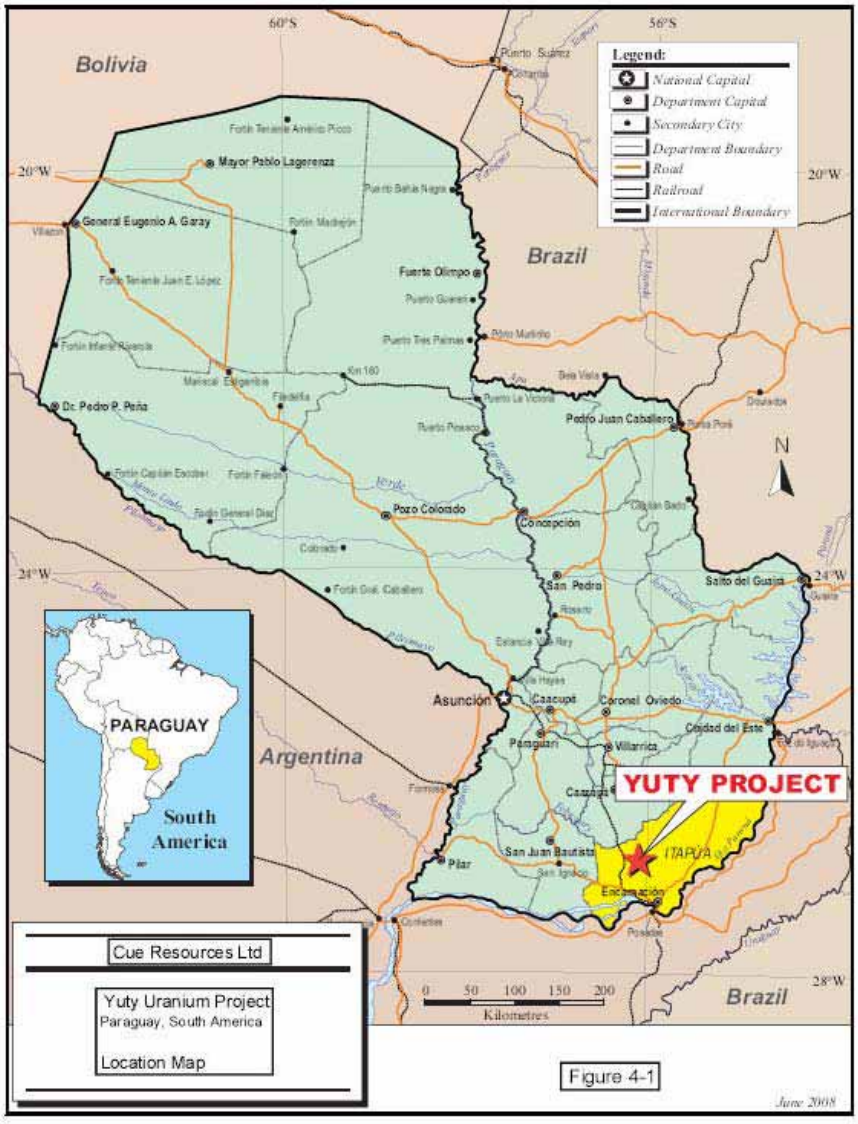
Local infrastructure is available at Yuty and nearby towns. Infrastructure at the site includes electrical power, a cell phone network and road building equipment. Water, both industrial and potable, is drawn from wells. Drilling equipment for the current exploration program is brought from Peru, since there are no core drills available at present in Paraguay. Rotary drilling rigs are available in Asunción.

LAND USE

The area is covered with extensive lateritic and saprolitic material, and outcrops are rare. Vegetation consists predominantly of tall grass and fruit trees, typical of the pampas in Argentina and Paraguay. Overburden cover ranges from 5 m to 15 m.

FAUNA AND FLORA

The land in the southeastern part of Paraguay, and in particular the Yuty area, is used mainly for agriculture by local villagers. Wildlife in the area includes various species of frogs, turtles, snakes, birds (including white swan, parrots, hawk, field dove, Tucán and owl) foxes, ocelot (wild cat), tapir, wild boar, deer, and various species of insects (Naturavita, 2006).


Bolivia
Brazil
Argentina
Brazil
Legend:
National Capital
Department Capital
Secondary City
Department Boundary
Road
Railroad
International Boundary
YUTY PROJECT
ITAPUA
PARAGUAY
South America
Asunción
Concepción
Pedro Juan Caballero
Salto del Guaira
Ciudad del Este
Coronel Oviedo
Villarrica
Encarnación
San Juan Bautista
Pilar
Pozo Colorado
Dr. Pedro P. Peña
Mayor Pablo Lagerenza
General Eugenio A. Garay
Fuerte Olimpo
60°S
56°S
20°W
24°W
28°W
N
0 50 100 150 200
Kilometres
Cue Resources Ltd
Yuty Uranium Project
Paraguay, South America
Location Map
Figure 4-1
June 2008

6. HISTORY

For details of the sites history, section 6 from the Scott Wilson Roscoe Postle Associates report dated May 15, 2008, and filed on SEDAR is quoted in this section.

Exploration for uranium in Southeastern Paraguay was started in 1976 by the Anschutz Corporation (Anschutz) of Denver, Colorado, after signing of the Concession Agreement between the Government of Paraguay and Anschutz in December 1975. This agreement allowed Anschutz to explore for "all minerals, excluding oil, gas, and construction materials". Previously intermittent exploration had been carried out by international oil companies, with insignificant results. The region, however, is known for its limited mining activities and production of high grade iron ore, mineral pigments, clays, limestone, sandstone, sand and gravel by indigenous people.

In early 1976, a number of reports by Anschutz consultants A.F. Renfro, D.G. Bryant and G.E. Thomas, covered the geology of eastern Paraguay based on reconnaissance field trips made through the southern Precambrian area, the sedimentary section from north to south, and the alkalic intrusions in the north-central part of a large Concession. From field examinations of various rock types and airborne radiometric data, Renfro concluded that the Anschutz Concession contained areas with good potential for uranium mineralization (Pearson, 1981). The regional correlation of stratigraphic horizons favorable for uranium mineralization is shown in various figures of that report (Anschutz, 1981).

The initial uranium exploration by Anschutz in 1976 covered an exclusive exploration-exploitation concession covering some 162,700 km2, virtually the whole eastern half of Paraguay. This included geological mapping, water sampling, soil sampling and a broad reconnaissance Track Etch program, with stations spaced 10 km apart. The station spacing for the Track Etch survey was subsequently reduced to 5 km in the southern part of the Concession. The reconnaissance program outlined large anomalous zones and Anschutz concluded that the concession in Paraguay constituted a new uranium province in an area underlain by granitic rocks and sandstones (Dunlop, 1979).

The initial reconnaissance program by Anschutz was followed by a program of airborne radiometric and magnetic surveys, detailed Track Etch survey, with station spacing of 100 m to 200 m, geochemical stream sediment and soil sampling, and diamond drilling and rotary drilling over selected target areas. In total, some 75,000 m of drilling was completed from 1976 to 1983 (Grote, 1979 and Dalidowicz, 1979). Flight line spacing for the airborne radiometric survey was 5 km with a clearance of 100 m above the surface.

Anschutz carried out exploration on behalf of a Joint Venture with Korea Electric Power Corporation (Kepco) and Taiwan Power Company (Taiwan Power). Exploration work to date has intersected uranium mineralization in drill holes ranging from 0.02% eU_3O_8 to 0.20% eU_3O_8 (equivalent U_3O_8) associated with layers of subhorizontal sandstones, and higher grade intersections ranging from 0.115% eU_3O_8 over 10.2 m to 0.351% eU_3O_8 over 0.3 m in sandstones and siltstones (Anschutz, 1981). Work was suspended in 1983 due to the slump of the price of uranium, and no further work has been done since that time.

7. GEOLOGICAL SETTING AND MINERALIZATION

For details of the sites geologic setting and mineralization, section 7 from the Scott Wilson Roscoe Postle Associates report dated May 15, 2008, and filed on SEDAR is quoted in this section.

REGIONAL GEOLOGY

The Yuty Uranium Project area is situated within the Paraná Basin in Southeastern Paraguay. The property is located on the western end of the Paraná Basin, which also hosts the Figueira uranium deposit in Brazil. The area is underlain by Upper Permian to Carboniferous continental sedimentary rocks, and is known for uranium occurrences, such as the San Pedro, Santa Barbara, Yarati-í and San Antonio occurrences. Significant radiometric anomalies also occur in Precambrian igneous and metamorphic rocks, Cambrian limestone, Silurian sandstone, and Cretaceous to Tertiary carbonatites and alkaline intrusive rocks.

The exploration methodology applied during past programs has been to determine the favourable host rocks of the UPC sequence, and determine favourable areas of the host sandstone.

The stratigraphic sequence of the lithologies in the Yuty Uranium Project area has been divided into the Southern UPC rocks and Lower Permian-Carboniferous (LPC) rocks. The Southern UPC contains the sequence of rocks as follows:

- Cabacua Formation: 200 m thick.
- Tapyata Formation: 125 m thick.
- Tacuary Formation: 280 m thick.
- San Miguel Formation: 20 m to 90 m thick.

The rocks of the UPC are sub-horizontal (dipping 1° to 5° to the east) and cover the western flank of the Paraná Basin. Data from reconnaissance drilling indicates that "the basin margin is cut by a series of west and northwest trending faults, with displacements ranging from a few metres to several hundred metres" (Blair, 2006a).

Continental sedimentary units of the Independencia Formation (of the UPC) are known to have high potential for uranium exploration in eastern Paraguay. Earlier work also suggests that the basal sandstone, a 20 m to 90 m thick unit known as the San Miguel Formation (within the Independencia Formation), to be the best host for uranium mineralization in the Yuty area. Earlier work further suggests that the San Miguel Formation can be correlated with the Rio Benito Formation in the uranium bearing Permian rocks near Figueira, in the Paraná Basin in Brazil. The source of the uranium is thought to be the Lower Permian-Carboniferous Coronel Oviedo Formation, which is correlated with the Itataré Formation underlying the Rio Benito Formation in Brazil. Occasional diabase sills and dikes intrude the sedimentary rocks, such as at the San Antonio area near the village of Yuty. Outcrops are rare, mostly along road cuts, and mapping is done by drilling.

The Lower Permian Coronel Oviedo Formation underlies the UPC rocks. "This glacial marine sequence of black shales, glacial sands and diamictites is generally characterized by high radioactive background" (Blair, 2006a).

A generalized isopach and facies map of the San Miguel Formation is shown in (Wilson, 2008, Figure 7-3). This unit "in the more prospective areas is generally fine-grained, thick-bedded sandstone with relatively minor shale or siltstone breaks and rare carbonaceous material" (Blair, 2006a). The uranium mineralization is best developed in areas of thinner sands, flanking thicker accumulations of sand, which may be due to pre-sedimentation faulting, changes in sedimentation in a deltaic environment, or infilling of previously existing erosional features of the LPC surface. Regional (north-south) cross section showing the correlation of the stratigraphic units of the San Miguel Formation of the Southern UPC from San Pedro to Yarati-í, a distance of 28 km are provided in (Wilson, 2008, Figure 7-4).

In a recent publication on the sedimentary and tectonic environments for uranium mineralization in the Paraná Basin, Barretto (2006?) reports that the Triassic sequence is barren of uranium mineralization, whereas the Devonian sequence hosts uranium deposits, such as the Amorinópolis deposit in Goiás State, Brazil. In the same publication, Barretto also suggests that the source of the sedimentary rocks, and thus the uranium mineralization in the Paraná Basin, was from the west. The author also comments on the host rock of uranium mineralization at Figueira (carbonaceous siltstone and coal) which poses problems for metallurgical recovery of the uranium.

LOCAL GEOLOGY

Since the Yuty Property is a large property, much of the local geology is the same as the regional geology. Based on information from reconnaissance drilling, Anschutz had divided the southern UPC into several target areas. These were:

- San Antonio
- San Miguel
- Typychaty
- Yataity

A discussion regarding exploration results for each of these target areas is provided under the Exploration section of this report.

Results of the 1980 to 1981 exploration drilling indicate that the Independencia Formation comprises a number of sandy units. In descending stratigraphic order, these are:

- Upper Sand Unit: Estimated to be approximately 50 m thick.
- Alternating Sandstone and Shale Unit: Estimated to be approximately 150 m thick.
- Massive Sand Unit: Estimated to be 60 m to 100 m thick.
- Fine-grained Sand Unit: Estimated to be up to 15 m thick.
- Wavy Unit: Estimated to be up to 20 m thick

The Massive Sand Unit, Fine-Grained Unit and the Wavy Unit are collectively referred to as the San Miguel Formation, and are host to the uranium mineralization at Yuty.

UPPER SAND UNIT

The Upper Sand Unit is comprised essentially of massive, locally cross-bedded medium to fine-grained sandstone with some clay interbeds. Strong oxidation and distinctively low radiometric response are the characteristic features of this unit in the area (Anschutz, 1981).

ALTERNATING SANDSTONE AND SHALE UNIT

This unit occurs more commonly in the northern UPC region. For the most part, it is comprised of thinly laminated, fine-grained to silty layers of sandstone alternating with shale layers. In places, this sequence is interrupted "by a one-metre-thick sandstone layer which scours into the beds underlying them" (Anschutz, 1981). The sandstones exhibit graded bedding, with conglomeratic material at the base, and medium-grained sandstone to fine-grained sandstone at the top. Oolitic chert horizons are present in the lower part of the Alternating Sandstone and Shale Unit. During the site visit, sub-outcrops of this oolitic chert horizon were observed along the second field traverse. Scott Wilson RPA is of the opinion that this may represent a marker horizon and may have acted as a resistive unit during the mineralizing process of the underlying San Miguel Formation.

The depositional environment of the Alternating Sandstone and Shale Unit is interpreted as mainly fluvial to shallow marine, for the oolitic zone. It is uncertain if the cherty nature of the oolitic zone is a primary (sedimentary) or secondary (diagenetic alteration) feature. No significant radiometric anomalies are reported to be present within the Alternating Sandstone and Shale Unit (Anschutz, 1981).

MASSIVE SAND UNIT

The Massive Sand Unit is characterized by generally massive, occasionally cross-bedded, coarse to medium-grained, rounded, poorly sorted, friable, sub-arkosic sandstone, and is interpreted to represent a beach facies (Anschutz, 1981).

In the western part of the Yuty area, the massive Sand Unit is intensively oxidized. In the east, it exhibits a reducing environment "with abundant pyrite and moderate to abundant amounts of carbonaceous material. These reduced sands within the Massive Sand Unit contain several gamma anomalies and/or weakly mineralized horizons throughout the unit" (Anschutz, 1981).

FINE-GRAINED SAND UNIT

"The Fine-grained Sand Unit represents a regressive depositional change from a shallow marine to a beach environment" (Anschutz, 1981). Only minor radiometric anomalies are reported from this unit.

WAVY UNIT

This unit overlies the black shale unit of the LPC. It contains fine to very fine-grained sandstone interlayered with siltstones and shales. "Wavy, flaser, lenticular and bioturbated structures are present. A few ±20 cm thick, indurated fine-grained sandstone stringers within the unit show strong radiometric anomalies" (Anschutz, 1981).

COMPILATION OF RECENT DATA

Compilation of lithologic data from earlier Anschutz drilling as well as from recent diamond drilling by Cue Resources at San Antonio suggests that the approximately 50 m thick

stratigraphic sequence below the diabase sill, which cuts the UPC units, consists of four sandstone units, with a well defined marker horizon (Ott, 2007). These are:

- Sandstone 1 (0.5 m to 9.6 m thick): Usually immediately below the lower contact of the diabase sill, contains siltstone with carbonate concretions, black shale and siltstone interbeds.
- Sandstone 2 (up to 9 m thick): Usually above the shale-siltstone marker horizon.
- **Black shale-siltstone marker horizon,** approximately 2 m thick, roughly 10 m below the lower contact of the diabase sill**.**
- Sandstone 3 (9 m to 30 m thick): Generally immediately below the marker horizon, it is flaser bedded with green mudstone fragments. This unit hosts the uranium mineralization
- Sandstone 4 (up to 16 m): Immediately above the LPC contact, is flaser bedded and shows cross bedding.

The highest radiometric response (40,000 cps to 50,000 cps in down-hole probes) is in the Sandstone 3 unit. These responses are associated with intersections of dark grey, fine-grained sandstones with black, fine-grained disseminated mineral (uraninite?) and very fine-grained black pyrite in the pore spaces of the sandstone. Down-hole response ranging from 2,000 cps to 10,000 cps is detected within many of the intersections of the Sandstone 3 unit.

Results of this compilation also show that, in general, two mineralized layers are intersected within the Sandstone 3 unit; an upper limb approximately 5 m to 8 m above the marker black shale/siltstone horizon and a lower limb approximately 20 m to 25 m below the marker black shale/siltstone horizon. These mineralized layers join together and form the "Merge Zone" in the eastern part of the San Antonio area, similar to roll front-type uranium deposits.

MINERALIZATION

Exploration work to date suggests that the uranium mineralization within the San Miguel Formation is stratabound and possibly syngenetic or diagenetic in origin. Recent interpretation of exploration data suggests that areas of limonite+hematite alteration within the grey-green, fine-grained sandstones in the San Antonio area have some characteristics similar to the alteration assemblages present at roll front-type uranium deposits of the Powder River Basin, Wyoming, USA.

Uranium mineralization within the Permo-Carboniferous rocks is present in other parts of the Paraná Basin, such as at Figueira, Brazil, as noted above. In a 1982 publication, S. Saad proposes a model of mineralization for Figueira-type mineralization. This model suggests that the uranium mineralization is predominantly of epigenetic type, and consists of five phases covering the source, sedimentation, precipitation, remobilization, and enrichment of uranium along the more permeable coarser fluviodeltaic channel sediments. During the sedimentation of the host paleochannels, the region was slowly deformed by folding, which caused successive flooding and accumulation of sediments in three environments, as follows:

- Zone 1: Characterized by sediments of pelitic composition.
- Zone 2: Pelitic sediments including large amounts of carbonaceous material in the form of coal and minor sandstone intercalations.
- Zone 3: Channels filled with cross-bedded sandstone and intercalations of siltstone

and carbonaceous material. These channels characterize a fluvial or fluvio-deltaic environment in which coarse and highly permeable sediments form the axis of the channel and the less permeable sediments occur along the flanks of the channel.

Recent drill results by Cue Resources indicate that intercalations of carbonaceous material are commonly present within the Sandstone 3 unit, below the diabase sill at San Antonio. Field observations by the author and descriptions by Saad (1982) suggest that uranium mineralization was part of the rock forming process, i.e., syngenetic within the environments rich in organic material (Zone 2), and is epigenetic along the channels (Zone 3) where the coarser clastic rocks provided a natural conduit for the migration of the mineralizing fluids. Saad (1982) postulated that the epigenetic uranium underwent several stages of transport and deposition during and after diagenesis of the host rocks. The proposed sequence of mineralization is as follows:

- Low grade and uneven uranium mineralization within the carbonaceous sandstones.
- Deposition of interbedded sandstones, siltstones, mudstones and carbonaceous sandstones, the first mobilization of uranium during diagenesis, and concentration of uranium along channels.
- Deposition of chemical and colloidal sediments with a corresponding decrease in the deposition of clastic material. During this phase, the uranium is deposited along channels and is subject to frequent remobilization by oxidizing fresh water.
- Protection by an impermeable shale layer, which would prevent the transport and migration of the uranium up-section within the sandstone stratigraphy. At San Antonio, the siltstone/shale layer immediately below the diabase sill would act as such an impermeable unit.
- Enrichment of the uranium within the porous sandstone layers during diagenesis.

Past exploration has identified pitchblende or coffinite (or both) as the uranium minerals that are likely to occur in the Yuty area. Honea (1981) examined three sandstone samples in polished section under the scanning electron microscope (SEM). He reported that "pyrite is confirmed as the sulphide mineral phase present both alone and with clays as partial to complete filling of interstices between clasts… and occurs as relatively well formed cubic crystals, as anhedral aggregates… grain size varies from less than one micron to almost one millimetre" (Honea, 1981). Honea further reported that the "uranium-bearing phase(s) could not be isolated even at high magnification, but is shown by composition spectra to be present with clay and pyrite in the interstitial fillings. Available data indicate a reduced black opaque mineral (very probably either pitchblende or coffinite – or both) scattered as sub-microscopic particles" (Honea, 1981).

In 1980, Heidi Lechner-Wiens carried out mineralogical studies on a number of samples from the Potrero Itá area. Lechner-Wiens concluded that the characteristic minerals indicating reduced/oxidized conditions were as follows:

- Pyrite, also as marcasite, indicating a reducing environment: Occurs in various rock types including:
    - Organic shale: Occurs as cubes (more resistant) as well as aggregates (easier affected by solutions).
    - Sandstone: Occurs as disseminations, with aggregates being more common than cubic crystals.
    - Pinkish fissile siltstone: Occurs in veinlets, commonly with calcite.

    - Oolitic chert: Occurs in centres of ooides, as well as interstitial and fracture filling material, probably of hydrothermal origin.
    - Diabase: Occurs as interstitial and fracture filling material, probably of hydrothermal origin.
- Limonite/goethite: Mainly as a secondary minerals in the sandstone indicating oxidizing conditions. They occur as:
    - Halo around pyrite crystals/aggregates.
    - Disseminations in connection with organic matter.
    - Halo around organic spots, lenses and laminae.
- Hematite: Mainly as secondary mineral indicating oxidizing conditions. It occurs as:
    - Dissemination in sandstone as alteration material from magnetite. Also as maghemite, possibly pseudomorphous after magnetite.
    - Centre of ooides in oolitic chert.
- Magnetite: Mostly as dissemination in sandstone, often altered to hematite and/or maghemite, and within diabase.
- Calcite: Mostly as secondary mineral in fractures of all rocks in the sedimentary sequence, commonly associated with pyrite and less commonly with gypsum.
- Gypsum: Secondary mineral, occurs as:
    - Gypsum halos around calcite (in slightly oxidized environment).
    - Fracture filling material (associated with pyrite and calcite).
    - Laminae of carbonate and gypsum

Lechner-Wiens (1980) further concluded that higher grade uranium mineralized zones were associated with fresh pyrite with gypsum, and where gypsum occurs together with pyrite (and calcite), it was likely formed due to the oxidation of pyrite (FeS_2) and other sulphide minerals.

In 1982, Lechner-Wiens carried out further petrographic studies on drill core from a number of holes, with similar results as the 1981 study. Lechner-Wiens noted that "black isotropic opaque botryoidal aggregates (resembling "caviar"), scattered irregularly within the clays and together with few pyrite-aggregates, the microscopic identification is not high enough for the final identification, but regarding the observed characteristics and the environment, pitchblende-coffinite is almost certainly the mineralization" (Lechner-Wiens, 1982b).
In her Departmental Correspondence entitled "Observations on Thin Section Studies of the Columnar Section and the San Miguel Formation" in May 1982, Lechner-Wiens notes that hydrothermal activity has been a dominant contributor in the mineralizing process at/near Yuty. This is indicated by the occurrence of calcite, chalcedony, coarse-grained quartz and pyrite as fracture-filling material. The paragenetic sequence in this system is interpreted as calcite → silica → pyrite, the majority of the pyrite crystals being of secondary origin (Lechner-Wiens, 1982a).

In June 1981, Robert M. Hutchinson, Consultant for Anschutz, carried out a detailed petrographic study on samples from three drill holes. The stratigraphic sequence intercepted consists of two fine to very fine-grained sandstone units separated by very fine-grained siltstone units. The latter consists mainly of angular, shredded-like pieces of fresh quartz with some mica. The sandstone units contain identifiable grains of tourmaline, rounded zircon and hornblende.

The host rock that is mineralized in the Yuty area is the basal unit of the San Miguel Formation. At least five mineralized zones are recognized. These are:

- Top peak: Associated with the unit of Lower Grey Siltstone.
- Upper Limb: Occurs in the upper and middle part of the sandstone.
- Lower Limb: Occurs in the lower part of the sandstone.
- Merged Zone: Where the Upper Limb and Lower Limb are joined.
- Basal Peak: Occurs at the contact of the basal San Miguel Formation with the LPC.

An ideal roll front model of uranium mineralization includes an oxidized interior, with mineralization occurring at the oxidation/reduction interface, along the "tails" or limbs and in the nose of the roll, i.e., near the contact with the regionally reduced host (Figures 9-1 and 9-2, and Guilbert and Park, 1986). The clay minerals within the sandstone sequence of the host rocks also show zoning, with montmorillonite at the top, clinoptilolite in the middle and analcite at the bottom of the sequence as evidence of progressive diagenetic zeolitization of the sandstones (de Voto, 1978). Furthermore, there may be several generations of roll front-type uranium mineralization in a sandstone sequence, provided that the geochemical regime prevails for each unit (de Voto, 1978).

The style of uranium mineralization at Yuty, and in particular at San Antonio, shows some of characteristics associated with roll front-type deposits. "There appears to be some increase in oxidation (increased limonite and deceased pyrite with an increase in brown-red-orange hues)" in the sandstones (Anschutz, 1981). These features may indicate a variety of a roll front, whereby the diabase sill overlying the San Miguel Formation may have acted as trap for diagenetic fluids and provided a horizontal conduit for the circulation of the diagenetic fluids and emplacement of uranium mineralization near the margin of a topographic high (gentle hill) below the diabase sill. Additional ground investigations need to be carried out to assess the exploration potential of these anomalous areas.

8. DEPOSIT TYPES

For details of types of deposits, section 8 from the Scott Wilson Roscoe Postle Associates report dated May 15, 2008, and filed on SEDAR is quoted in this section.

Uranium mineralization hosted by the basal San Miguel Formation of the UPC is interpreted to represent a variety of the roll front-type mineralization by the early workers of Anschutz. Sandstone-type deposits are characteristically sedimentary formations of clastic-detrital origin, containing reducing environments. These deposits are usually tabular in shape and may occur in continental sandstones, deltaic, or shallow marine environments. Typically, roll front-type uranium deposits have, in the direction of the flow of mineralizing solutions, a barren (oxidized) interior zone surrounded by a (reduced) mineralized zone. Between the barren zone and the mineralized zone is an altered zone. The overall shape of the roll front is like a crescent with extended tails at each end, which also outlines the barren interior zone, and uranium is deposited at the interface between the oxidized zone and the reduced zone. Ground water flow direction is usually a good guide in detecting roll front-type deposits in sandstones.

The style of mineralization within the sandstones at Yuty includes some characteristics of the roll front-type mineralization, as in the Powder River Basin of Wyoming in the United States. It is likely that the style of mineralization is a variety of the roll-front-type uranium mineralization (Wilson, 2008).

9. EXPLORATION

PREVIOUS EXPLORATION

During the exploration programs by Anschutz, airborne radiometric surveys, regional geological mapping and geochemical sampling were the main exploration tools for uranium exploration in the southeastern part of Paraguay. This was followed-up by core and rotary drilling, in two phases. The initial phase was to drill wide spaced reconnaissance diamond drill holes along fences spaced approximately 16 km apart. The objective of this initial phase was to obtain stratigraphic information across an inferred host trend. The second phase was to drill rotary holes, spaced approximately 0.5 km apart, within—as well as in between—the fences of the reconnaissance holes to establish and outline target areas. All drill holes were logged and probed by gamma, neutron and resistivity surveys. From 1978 to 1983, Anschutz completed more than 75,000 m of drilling.

Of a total of 266 drill holes reported by Anschutz to have been drilled in the San Antonio area, data from 257 holes is available to Cue Resources, and is incorporated in Scott Wilson (2008) and this report.

Exploration work by Anschutz outlined several target areas, including the area now covered by the Yuty Project. These include the San Antonio, San Miguel, Typychaty and Yarati-í targets near and around the village of Yuty, approximately 200 km southeast of Asunción.

SAN ANTONIO

The San Antonio target area covers an area of approximately 13 km^2 near and around the town of Yuty. At least three mineralized zones were encountered by Anschutz in this area and three holes, 371-T-22, T-48 and 371-T-50 encountered a basal zone with a minimum of 0.10% eU_3O_8 over 0.6 m. The mineralization in hole 371-T-50 includes an intersection of 0.042% eU_3O_8 over 12.0 m (Reese, 1981). Of the 266 holes drilled in this area:

- 138 encountered uranium mineralization or anomalous radioactivity.
- 103 intersected significant equivalent uranium mineralization (eU_3O_8) of ≥0.03% eU_3O_8 over intervals ranging from 0.6 m to 13 m. Nine of these holes had mineralized intersections of higher than 0.10% eU_3O_8 over more than 3 m in thickness.
- 24 holes encountered uranium mineralization of 0.10% eU_3O_8 over 0.60 m or higher grades. Uranium mineralization detected to date covers an area of 2.5 km by 0.8 km. The "mineralization appears to a chemical front with possible enrichment along fault zones that extend to more than 2.5 km along the front, with widths ranging from 10 m to 60 m" (Blair, 2006). In 1982, the uranium mineralization was extended over 7 km along strike.

OTHER TARGET AREAS

There were a number of target areas outlined by Anschutz within the Yuty Property. These have been reviewed in detail in Scott Wilson (2008).

RECENT EXPLORATION

Recently, Cue Resources has carried out a compilation of the previous Anschutz results and a program of delineation drilling to estimate NI 43-101 compliant mineral resources of the San Antonio target area. All drill core from the Cue Resources program is stored at the Yuty site.

Exploration services, regarding drill hole logging and sampling were provided by Búscore Consulting de Paraguay S.A. (Búscore) and logistical support, including camp maintenance is provided by United Logistical S.A. (United).

Cue Resources started the 2007 exploration work by a confirmation drilling program to correlate Anschutz drill results with new drilling. This included 13 holes in an area 100 m by 100 m in the San Antonio area, where Anschutz had completed ten holes, in the northeastern part of the San Antonio deposit. Healex (2009) notes that these holes are not "twinned holes;" rather, they are drill holes which have tested an area of mineralization that represents the same area as the Anschutz holes. In general, the new drill hole collars are within 10 m to 20 m of the old drill holes completed by Anschutz.

Equivalent uranium grades (eU_3O_8) from down-hole radiometric probe results indicate that Cue Resources results are comparable to and in the same order-of-magnitude as the Anschutz results, as reported in Table 10-3 of Scott Wilson (2008). Healex (2009) concludes that the Anschutz drill results and Cue Resources drill results are of the same statistical population.

In 2010, 33 holes were completed for a total of 3,596 meters. Of the 33 holes 5 were not successfully completed. Of the 28 holes that reached the target, 10 had intersections greater than a GT (grade x thickness) of 0.10 m% eU3O8, and an additional 13 had intersections exceeding a GT of 0.03 m% eU3O8. As with the 2009 drilling, the 2010 drilling confirmed previous projections of mineralization.

SAMPLING METHOD AND APPROACH

PREVIOUS WORK

Detailed information on the sampling method and approach during the Anschutz drilling campaigns is not available. Previous Technical Reports, (Wilson, 2008 and Healex, 2009) both conclude that sampling procedures were comparable to Western industry standards of that time. Mr. Beahm reviewed all previous gamma logs which are the primary basis for the resource estimation and concurs that this data is conformable with industry standards of the time.

These included:

- Sampling of the whole core of diamond drill holes, with sample intervals of approximately 30 cm (1 foot).
- Calculation of equivalent uranium grades from radiometric (gamma) logs.

RECENT WORK

The methodology of sampling the drill core as well as drill cuttings during the recent drilling program by Cue Resources is described below.

DIAMOND DRILL HOLES

Mineralized drill core intervals to be sampled are identified and marked by the Búscore geologist. Sample lengths are usually approximately 50 cm. Visual indicators of the intervals to be sampled include lithologic contacts and clay altered rock, such as oxidized/reduced zones. The sampling procedure is as follows:

- Sample intervals are marked by sample tags in the core box, and are normally extended for 1 m into unmineralized rock.
- Radiometric response (in cps) by hand-held scintillometer is written on the core at 10 cm intervals. This is for ease of reference and comparison with the down-hole radiometric probe results, which are also compiled at 10 cm intervals for the calculation of the % eU_3O_8 values. The scintillometer used is an Exploranium Model GR 110, Serial No. 3120.
- Prior to sampling, the drill core is marked by a line drawn along the core, so that systematically one side of the core is sampled.
- Sample tags are inserted at the beginning of each sample.
- Sample tags are inserted in the same bags only after the samples have been collected.
- Sample bags are numbered prior to sampling.
- Marked sample intervals are split in half using a mechanical core splitter. A technician collects the split core.
- Sample tags are put in the core box at the end of each sample.
- A permanent marker is used to mark sample intervals on the core boxes in addition to the flagging tape.
- Samples are collected in medium sized 20 cm x 30 cm clear polyethylene bags and sealed.
- Systematic density measurements are of representative core from all mineralized intersections. The average density of 80 samples is 2.43 g/cm^3. This is within a range from 2.35 g/ cm^3 to 2.61 g/ cm^3.

Samples are put in 5-gal pails marked with the range of sample numbers. A list of the sample numbers is included with each shipment. The pails containing samples are kept in a separate room in the core storage area and only authorized personnel are allowed to handle them.

Healex (2009) stated that the drill hole sampling procedures employed by Cue Resources/Búscore conform to industry standards. Based on observations of procedure employed during the 2010 drilling program and detailed reviewed of geologic and geophysical log data, Mr. Beahm also concludes that the previous work by CUE conforms with current industry standards and practices as did the exploration work conducted during 2010 and observed by Mr. Beahm.

ROTARY DRILL HOLES

When Cue Resources commenced drilling, a rotary rig was typically used to drill to the top of the diabase sill. As the program progressed, the rotary drill was used to drill through the sill, and ultimately to the final depth. Approximately 50 of the 223 holes drilled by Cue have been drilled to final depth with the rotary rig. For the rotary drilling, representative samples of drill chips are collected at one-metre intervals (approximately 150 g material) but are not considered to be suitable material for assaying.

RADIOMETRIC LOGGING

The principles of radioactive disintegration, radiometric logging and calibration methodologies have been previously presented in detail in the Scott Wilson (2008), Appendix B. The following discussion on radiometric logging and quality assurance procedures used at Yuty is taken from Schmeling 2007.

CALIBRATION OF LOGGING EQUIPMENT

Before shipping the logging equipment to Paraguay, a routine calibration procedure was performed for each probe by Mount Sopris at Grand Junction, CO. The data sheets of this calibration are unique for each probe. They show the basic conversion factors needed for calculating equivalent uranium (% eU_3O_8) based on the recorded cps values within a series of test pits with known geometric conditions and uranium mineralization. Upon completion of the 2010 drilling program the logging equipment was sent to the US and calibrated by Mount Sopris personnel at the Grand Junction, CO facility which is maintained for such purposes by the US Department of Energy. Calibration factors varied by less than 2% from those used during the 2010 drilling program. 2010 drill results were re-calculated with the new calibration factors.

RADIOMETRIC LOGGING PROCEDURES

Radiometric logging is carried out with industry standard procedures. Logging starts with the data entry of header information, such as hole number and location, and specific parameters, such as instrument ID, probe serial number and logging conditions. It is important to note the hole diameter and the medium through which the probe is inserted; whether the hole is filled with water or air, and whether the probing is done through the drill rods, casing (type of casing included) or in open hole. This is because the radiometric response is dependent on the K-factor and other corrections for the conversion of cps values into equivalent uranium grades for each medium.

Simultaneous logging of SP and resistivity of the rocks is also carried out together with down-hole radiometric logging.

Previous Technical Reports have stated that the down-hole radiometric logging procedures at Yuty are in keeping with the industry standards (Healey, 2009). Mr. Beahm concurs with this determination.

10. DRILLING

PREVIOUS DRILLING

Approximately 75,000 m of drilling (core as well as rotary) were completed by Anschutz in previous campaigns. Results are discussed in earlier sections and in Scott Wilson (2008).

Healex (2009) reviewed a number of drill logs at the MOPC in Asunción. Healex (2009) was of the opinion that the lithologic logging procedures are comparable to Western industry standards. Mr. Beahm concurs with this determination.

RECENT DRILLING

From June 2007 to March 2008, Cue Resources completed 172 drill holes in the San Antonio area. Total drilling was 22,872 m in the San Antonio area, of which 15,681 m was diamond drilling and 7,191 m was rotary drilling. In general, for the diamond drill holes, the portions of the sandstone until the contact with the diabase sill was tri-coned with a rotary rig, since past results had indicated no significant mineralization, and the portion below the diabase sill until the end of the hole was cored with a diamond rig. The results of this drilling were incorporated in Scott Wilson (2008).

From April to July 2008, an additional 51 holes were completed, for a total of 223 holes. That brought the total meters drilled since June 2007 to 28,317 (16531 m diamond drilling and 11,786 rotary drilling).

In 2010, 33 holes were completed for a total of 3,596 meters. Of the 33 holes 5 were not successfully completed. Of the 28 holes that reached the target, 10 had intersections greater than a GT (grade x thickness) of 0.10 m% eU3O8, and an additional 13 had intersections exceeding a GT of 0.03 m% eU3O8. Highlights of the 2010 drill program include:

Drill Hole #	Type	Total Depth	Best Intercept				GT ($m\%_eU3O8$)
			THK (m)	To (m)	From (m)	$\%_eU3O8$	
1245	Step Out	126.00	2.59	83.82	86.41	0.05	0.12
1246	Step Out	118.65	1.99	83.86	85.85	0.11	0.22
1255	Infill	106.20	6.28	78.00	84.28	0.08	0.50
1256	Infill	102.00	2.59	77.40	79.99	0.05	0.12
1257	Infill	102.00	3.29	78.30	81.59	0.03	0.11
1258	Infill	93.00	2.49	74.21	76.70	0.07	0.17
1260	Infill	91.20	0.90	85.38	86.28	0.12	0.11
1262	Infill	102.00	6.28	72.42	78.70	0.20	1.22
1266A	Infill	102.00	5.69	71.92	77.61	0.03	0.14
1268	Infill	112.00	3.09	88.57	91.66	0.11	0.35

This drilling forms the basis for the update to the resource estimate presented in this report.

For diamond drill holes, HQ size core was recovered, and the procedures used during the diamond drilling programs were as follows:

- The collar locations of all drill holes are surveyed and marked in the field. A Global Positioning System (GPS) instrument is used to mark the collar locations of both old Anschutz drill holes as well as the new Cue Resources drill holes. This survey was carried out by a qualified surveyor from Búscore in Ecuador. Down-hole surveying is not done because the holes are vertical and relatively shallow, with a maximum depth in the order of 150 m.

- Lithologic logging of drill core and geotechnical observations is provided by Búscore personnel. Logging is done by recording all down-hole data including radiometric values, and subsequently assay values, when they become available. All information is recorded on previously prepared logging forms, including:
    - Lithologic contacts
    - Descriptive geology
    - Intensity of various alteration types
    - Structural features; bedding orientation, fracture and brecciated zones
    - Core angles
    - Core diameter
    - Percent core recovery record
    - Calculation of Rock Quality Designation (RQD) values
    - Measurement of rock density
    - Maintaining a photographic record of the core with a digital camera. Photographs are taken of all exploration drill core and key information is summarized in a digital database.
    - Relative increase or decrease in the amount of limonitic, hematitic, chloritic and/or pyrolusite (MnO2) alteration.
    - Porosity of the sandstones.
    - Carbonate alteration: Calcite generally occurs as vertical veinlets within the overlying diabase as well as the host sandstones.
    - Pyrite alteration: Pyrite and marcasite veins occur in the diabase as well as in the sandstones. Recent lithologic logging indicates that "mineralization within the sandstones that tend to contain uranium values, generally occurs as calcite in-filling or (as) calcite matrix, the pyrite tends to occur as nodules. The uraninite, where present, exists as a 'darkening' within the sandstone" (Pollard, 2008).

Radiometric logging: A Mount Sopris Instrument (MGX II model and Matrix digital logger S/N 0713) is used for this purpose. Each logging unit is equipped with one Poly Gamma Probe, type 2PGA-1000, S/N 3842 that can record in one run the gamma ray intensity (Gamma) in cps, or in another run simultaneously the electrical self-potential field (SP) and the so-called single point electrical resistance (SPR). The cable winch unit carries a cable length of 500 m, and the Matrix logger carries a cable length of 1,000 m. A detailed description of radiometric logging methods is discussed in Appendix A of Scott Wilson (2008).

Comparison of the old (Anschutz) and new (Cue Resources) drill results indicates that, in terms of the equivalent uranium content (% eU_3O_8) of the mineralized intersections, the new holes have intersected similar mineralized zones.

11. SAMPLE PREPARATION, ANALYSIS AND SECURITY

PREVIOUS WORK

Sample preparation, assaying, and quality assurance/quality control (QA/QC) procedures used by Anschutz are not available. However previous Technical Reports conclude that the procedures used during the exploration and production phase of the Yuty Uranium Project were similar to industry standards at the time (Healex, 2009).

RECENT WORK

SAMPLING

The sampling procedures when a core drilling program is conducted for the purpose of sample analysis as follows:

- Drill core is brought by authorized exploration personnel one or more times per shift from the drill rig directly to a drill logging and sampling area within the Yuty Property. Within 48 hours, the material core intervals (e.g., potentially mineralized intervals) are photographed, logged and sampled, and the samples are shipped directly to the sample preparation laboratory. The method of delivery is by air freight.
- Sampling of drill core is done at half-metre intervals. Samples are handled only by Búscore or Seminsa contract geologists and are sent to SGS Sample Preparation Laboratory (SGS), in San Juan, Argentina, where sample preparation is carried out. Thereafter, samples are sent to Energy Labs in Casper, Wyoming, for uranium assays by both chemical and the Closed Can method.
- Each sample is assigned a unique sample number that allows it to be traced through the sampling and analytical procedures, for validation against the original sample site. The second half of the split core is stored at the Yuty site as a control sample, available for review and resampling, if required.
- Blanks and standards are inserted after every ten (10) samples. Two types of standards are used. These were acquired from the Saskatchewan Research Council (SCR) laboratory, and the blanks are collected from diabase sill overlying the mineralized units at Yuty, with expected nil uranium values.

ANALYSIS

Chemical analysis on drill core is carried out only on selected samples. The purpose of these analyses is to compare the equivalent uranium grades obtained by down-hole probing the holes with the chemicals, and to determine the disequilibrium in the uranium grades, if any.

SECURITY

The drill core not utilized for analysis is stored in a secured area near the town of Yuty and samples are handled only by Búscore or Seminsa contract geologists, as noted above. The core is stored in a covered area inside the exploration camp compound and secured with fencing.

Mr. Beahm observed the archived core and reviewed this core splitting procedure and is of the opinion that the procedures used by Cue Resources for sample preparation, analysis and custody of samples for the Yuty Uranium Project are in keeping with the industry standards. In addition to these methods, at Mr. Beahm's suggestion new core is being stripped vertically with colored markers to insure the proper orientation of the core is maintained during handling. In addition, each meter is marked and labeled horizontally on the core. Finally, the top and a wooden block is inserted at the top and bottom of each core run which provides the meterage of core cut and recovered.

12. DATA VERIFICATION

PREVIOUS WORK

During the early exploration period in the area by Anschutz, data verification was done by company geologists. Data on QA/QC procedures, however, are not available. Healex has not verified the old Anschutz database; nevertheless, Healex understands that the drill hole data were verified by Anschutz, to the extent as discussed under the previous section of Sampling Method and Approach. In terms of recording field data, Anschutz had established detailed procedures for technical staff (Carlson, 1981).

As a check of its calculated equivalent uranium grades, Anschutz sent 29 samples of pulp from core hole 372-T-60, which was assayed at Geosol Laboratories to Skyline Laboratories. It is understood that results were comparable, but details are not available at this time (Healex, 2009).

RECENT WORK

During the drilling campaigns of 2007 and 2008, data verification and quality control was done by Seminsa and contract personnel. The quality and reliability of the data obtained from the recent drilling program is reviewed and verified by Mr. David Pollard, Contract Geologist with Búscore, in charge of the drilling program, and under the supervision of Dr. Bernie Schmeling. Healex, (2009) reports that both Messrs Schmeling and Pollard are Qualified Persons under the definition of NI 43-101.

The 2010 drilling program was not specifically designed to verify historical drilling. However, the drill results were compared to the GT contour mineral resource model developed 2009 (Healex, 2009) and were found to be comparable in the opinion of the author.

ASSAY QUALITY ASSURANCE AND QUALITY CONTROL

The 2010 drilling program relied upon downhole geophysical logging with respect to determination of equivalent uranium content. The following statement applies to the prior sampling programs completed by CUE.

Sample preparation procedures at the SGS sample preparation laboratory in San Juan, Argentina, and the Closed Can procedures at the Energy Labs in Casper, Wyoming were presented in Appendix C of Scott Wilson (2008). Healex (2009) noted that the procedures used at the SGS sample preparation laboratory, and at Energy Labs, including the reagents and apparatus used for the assays, are comparable to those used at many commercial laboratories in Canada. In particular, they include:

- Crushing the split sample to 10 mesh and grinding it to 150 mesh.
- Cleaning the pulverizer after each sample using cleaner sand to avoid cross contamination of samples.
- Uranium determinations are carried out using chemical and Closed Can methods.

CALIBRATION OF DOWN-HOLE RADIOMETRIC PROBE AND DISEQULIBRIUM DETERMINATION

Prior to calculating the % eU_3O_8 content of the mineralized intersections encountered in the recent drilling, Cue Resources calibrated the down-hole probe by frequent testing of an Anschutz hole with known mineralization. Only after repeat results gave reliable values was the probe used to calculate % eU_3O_8 values for the new holes (Schmeling, 2007).

A key factor in the establishment of reliable calibration for down-hole radiometric logging is the disequilibrium state of the mineralization. To evaluate the disequilibrium, a program was initiated at the on-set of drilling by Cue in July 2007.

A detailed review of the results of this program has been previously presented by Scott Wilson (2008). The test work involved the industry standard method of comparing chemical assays to closed can radiometric values on splits of the same sample. This work was carried out by Energy Labs, Casper WY.

Mr. Beahm reviewed the previous Technical Reports, (Wilson, 2008) and Healex, 2009) and the available data with respect to chemical assay data as compared to radiometric equivalent assay data. Mr. Beahm notes that the results of over 260 samples tested for both equivalent (closed can) % eU_3O_8 and chemical % U_3O_8 showed a slightly higher average grade with respect to chemical assays as compared to equivalent assays. Although the available data suggests a slight chemical enrichment or positive disequilibrium, the test samples were available from only 12 core holes or approximately 4% of the total drilling. Based on the limited data, no adjustment in the equivalent uranium grades is recommended by the author.

CHECK ASSAYS

CUE RESOURCES PROGRAM

For the 2007 confirmation drilling program by Cue Resources, check assays and QA/QC procedures were followed both at the Yuty Uranium Project site as well as at SGS sample preparation laboratory and at Energy Labs. These include the insertion of standards and blanks by Seminsa staff, as well as by SGS staff. In addition Energy Labs conducts its own internal check program. Details of this work have been previously reported by Scott Wilson, (2008). These results are consistent with a properly functioning laboratory and are deemed acceptable (Healex, 2009). Mr. Beahm reviewed this data prior to 2010 drilling program and considered the results and concurred with the previous determinations, (Wilson, 2008) and (Healex, 2009). As a result the author did not recommend additional check assay be completed.

CONFIRMATION DRILLING PROGRAM

Prior to the regular definition drilling program, Cue Resources completed 13 drill holes close to the Anschutz holes in an area 100 m by 100 m in the San Antonio area. The purpose of this initial program was to compare the new drill hole results with the Anschutz data and to determine if they are part of the same statistical population. Results indicate both datasets are similar, as discussed by Scott Wilson (2008) in the Section 10 Exploration.

The 2010 drilling program was not specifically designed to verify historical drilling. However, the drill results were compared to the GT contour mineral resource model developed 2009 (Healex, 2009) and were found to be comparable in the opinion of the author.

DUPLICATE ASSAYS

Cue Resources did not carry out a program of duplicate sampling of the diamond drill core, because the check assay results for samples assayed at Energy Labs show excellent correlation with down-hole radiometric probe results (Wilson, 2008). The author concurs with this determination.

SAMPLE SECURITY

The procedures for sample security are discussed under Assay QA/QC.

13. MINERAL PROCESSING AND METALLURGICAL TESTING

AGITATION LEACH TEST

Six agitation leach (bottle roll) test were performed by Hazen Research, Inc, in early 2008. For this program, core was pulverized to -10 mesh. Four of the tests used a sodium bicarbonate lixiviant and yielded extraction rates ranging from 8.3 – 12.2%. Two tests were run with sulphuric acid as the lixiviant, with 30.0 and 31.7% extraction resulting. The initial acid charge for these tests was rather low at about 5.5g in a sample of 200g with an additional 200g of water. Mineralogical work completed as part of this program identified one of the minerals containing uranium to be a uranium-titanium oxide, which will be refractory to a bicarbonate lixiviant. It also concluded that more aggressive leach chemistry may be required.

COLUMN LEACH TEST

Following the recommendations from the work reported above, Litz was contracted to carry out a column leach test using sulphuric acid. A copy of the Litz report is included as Appendix C to this report. Column Leach testing is considered by Healex to be much more indicative of potential field conditions that is Agitation Leach testing. The test yielded a uranium extraction of 86%, at an acid consumption of 56 kg sulphuric acid per tonne. The acid leach discharge solutions averaged 40 mg U_3O_8 per litre. This work was completed on September 29, 2008. The test parameters were:

- Core was crushed using a small jaw crusher to -3/8 inch
- The crushed core was placed in a 500-mL buret, with a peristaltic pump to advance the lixiviant. A wad of glass wool in the buret bottom served as the sample support.
- The sample material was charged to the buret in layers such that the particle sizes did not segregate. The total amount charged to the buret was 433.4 g.
- The lixiviant was pumped from a reservoir using a variable-speed peristaltic pump that was connected to an interval on-off timer. The lixiviant discharged onto the top of the samples material in the buret.
- Initially the solution collected in the reservoir was sampled daily, but as the flow rate was decreased, the sampling interval increased to three or four days.
- The lixiviant for the first day contained 12 g/L sulphuric acid. The discharge pH was 2.05, so the lixiviant for the second day was reduced to 6 g/L sulphuric acid. The discharge pH decreased to 1.86, so the lixiviant was reduced to 3 g/L, with ferric sulphate and 0.1 g/L sodium chlorate added as oxidants. For the next 14 days the discharge pH remained below 2.0.
- For the first eight days, the lixiviant flow averaged about 1.0 bed volumes per day. Subsequently this was reduced to about 0.5 bed volumes per day, and ultimately to 0.4 bed volumes per day.
- The oxidation potential and residual free sulphuric acid were measured on each sample. Once an oxidant was added to the lixiviant the oxidation potentials increased to 568 mv and above. The residual free acid was as low as 0.4 g/L

sulphuric acid when the discharge pH was 2.03, and as high as 8 g/L acid near the end when the pH was below 1.4.

- The residual solids contained 0.024% U_3O_8, indicating that the uranium concentration in the feed sample was 0.160% U_3O_8.

Previous Technical Reports (Healex, 2009) concluded that these results indicate that this San Antonio has the potential to be extracted by in-situ recovery (ISR) techniques using a sulphuric acid lixiviant. However it must be stressed that this is only one test, and a substantial amount of additional test work will be required to validate that opinion.

Mr. Beahm concurs with the conclusions by (Healex, 2009) and recommends additional metallurgical testing to verify leach results and to better define the leach chemistry and recovery. Further it is recommended that future testing consider both ISR and heap leach recovery as either method may be appropriate for this deposit.

PHYSICAL PROPERTY TESTING

To further test the ISR potential for the San Antonio deposit, a series of tests were performed on drill cores to measure porosity and permeability. Six samples were delivered to Core Laboratories, Inc Denver CO in late December 2008. Results were received January 9, 2009.

The samples were measured for porosity and permeability, with the porosity being reported as a percentage, and the permeability reported in milliDarcies (mD), both air and Klinkenberg correction. The samples were all very fine-grained sandstone, and were deemed to be representative of the San Antonio host rock. The results are shown in Table 13.1. In summary, the range of porosity values was 18.90% to 26.01%, with an average of 23.16%. The permeabilities ranged from 54 to 452 mD (average 210 mD) with the Klinkenberg correction, and 64 – 491 mD (234 mD average) for air.

As with the column leach test, these results must be regarded as preliminary and indicative only. Healex, (2009) stated that the permeability results are within the range of successful ISR operations in Wyoming, albeit towards the low end of that range.

Table 13.1 Porosity and Permeability Results

Sample #	Porosity %	Permeability		Grain
		Klinkenberg	Kair	Density
		mD	mD	g/cm^3
1	24.56	187	209	2.636
2	26.01	328	361	2.628
3	24.61	452	491	2.629
4	20.47	141	160	2.642
5	18.90	101	117	2.636
6	24.42	54	64	2.643
Average	23.16	210	234	2.636

Source: Core Laboratories January 7, 2009

RECENT HYDOLOGIC TESTING

Based on the recommendations of Healex, (2009), a hydrologic testing of the San Miguel Formation (host formation) at the San Antonio project was completed by pump testing by Hydro Engineering, LLC in 2011. Hydro Engineering final report titled "Aquifer Properties and Estimated Recovery and Injection Rates for the Yuty Uranium Project", April, 2011 is provided in Appendix B.

The report concludes that transmissiviites range from 2.3 to 6.7 m^2/day and averaged 3.7 m^2/day. The storage coefficient ranged from 9.9 E^{-5} to 6.0 E^{-4} and averaged 2.0 $^{E-4}$. The aquifer properties for the San Miguel aquifer at Yuty are very similar to two of the Powder river Basin ISR projects in Wyoming. One of these two sites has been commercially mined by ISR while the other has been extensively tested for ISR recovery. This indicates that the Yuty mineral deposit may be suitable for ISR recovery based on the aquifer properties observed during this testing. (Hydro, 2011)

14. MINERAL RESOURCES AND MINERAL RESERVES

An independent report by ExplorMine Consultants has been utilized in this section. The full report is provided in Appendix A.

14.1 INTRODUCTION

ExplorMine Consultants was commissioned to prepare a Mineral Resource estimate for the Yuty Uranium Project, Paraguay. The work involved an assessment of the following aspects:

- Survey the validity of any geological logging, sampling and radiometric data to be utilized in a Resource Estimate.
- Estimate Mineral Resources geostatistically.
- Recommendations for future work to progress.

Reliance on Information

Where ExplorMine Consultants has reviewed basic data provided by CUE and BRS, ExplorMine Consultants has performed sufficient validation and verification required, placing an appropriate level of reliance on such information. Where information is not directly verified, it is stated as such.

Details of information used to prepare this Report are as follows:

- Various electronic borehole data.
- Various electronic reports on previous audits.
- Personal communication with CUE and BRS Staff.

Site Visit

ExplorMine Consultants has not performed a site visit to the Yuty Uranium Project.

ExplorMine Consultants' opinion with respect to this Report is effective on July 11th, 2011 and is largely based on information and data provided by CUE and BRS representatives and consultants. To its knowledge, ExplorMine Consultants has disclosed all material information.

Calculations, which occur in this report, may include a degree of rounding which can introduce small errors; such errors are not considered significant.

Geological Modeling Methodology

A new topographic surface was generated from public domain sources as there were a number of drill hole collar anomalies. These were noted when trying to grid the Marker and Upper Permian Carboniferous and the Lower Permian Carboniferous contacts. The collar positions were then dropped onto the new topographic surface. The cause of the elevation differences was due to a number of different historical data sources and measurements.

The borehole data was compiled in Datamine^{TM} mining and exploration software. All drill holes were decomposited to 0.1m as that is the dominant sampling width. A 0.02% equivalent uranium (eU_3O_8) cut-off was applied to all the borehole composites to define the mineralized zones. The thickness of the mineralized zone was interpolated utilizing barren, trace and mineralized boreholes (Figures 2 and 3). The thickness of each mineralized zone was interpolated into a 3-dimensional orthogonal block model (Figures 4 and 5).

The Yuty Uranium Project comprises multiple stacked uranium mineralized zones. There are 3 main mineralized zones, an upper, an intermediate and a lower. There are however up to three thinner intermediate zones that also occur within the main mineralized zone (Figure 4 and 5). The upper mineralized zone occurs throughout the deposit whereas, the intermediate and lower mineralized zones occur sporadically throughout the area. The entire mineralized zone with its intermediate waste reaches a mean thickness of 7.1m. The upper and lower portions are the thickest mineralized zones. These zones vary from 0.1m – 15m in thickness, with a mean thickness values of 2.3m and 1.0m respectively.

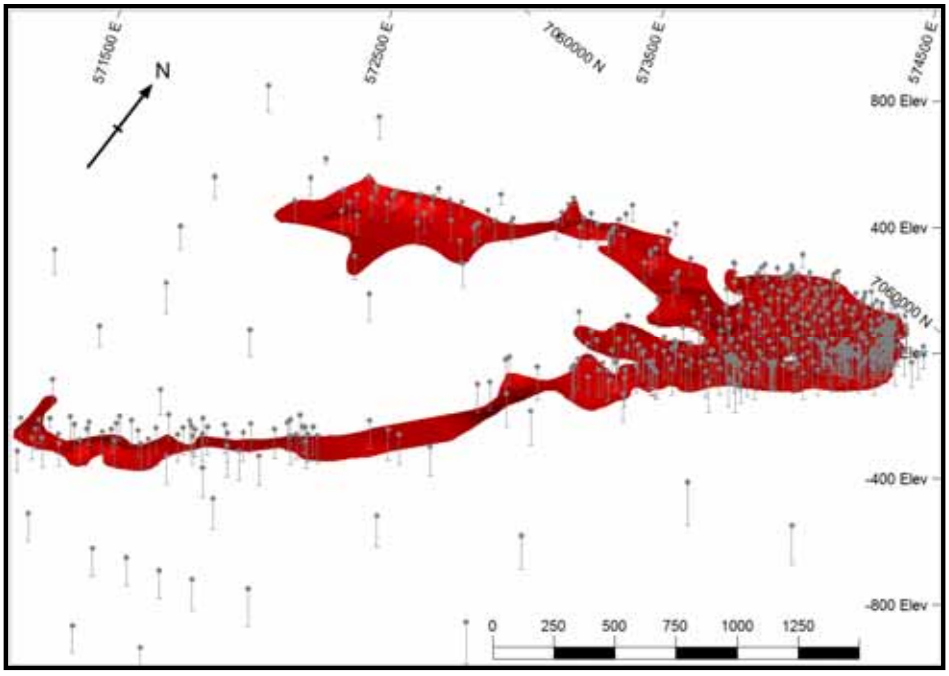


Figure 2: 3-Dimentional view of the top of the uranium mineralised zone and the extent of drill holes utilised in the geological model creation.

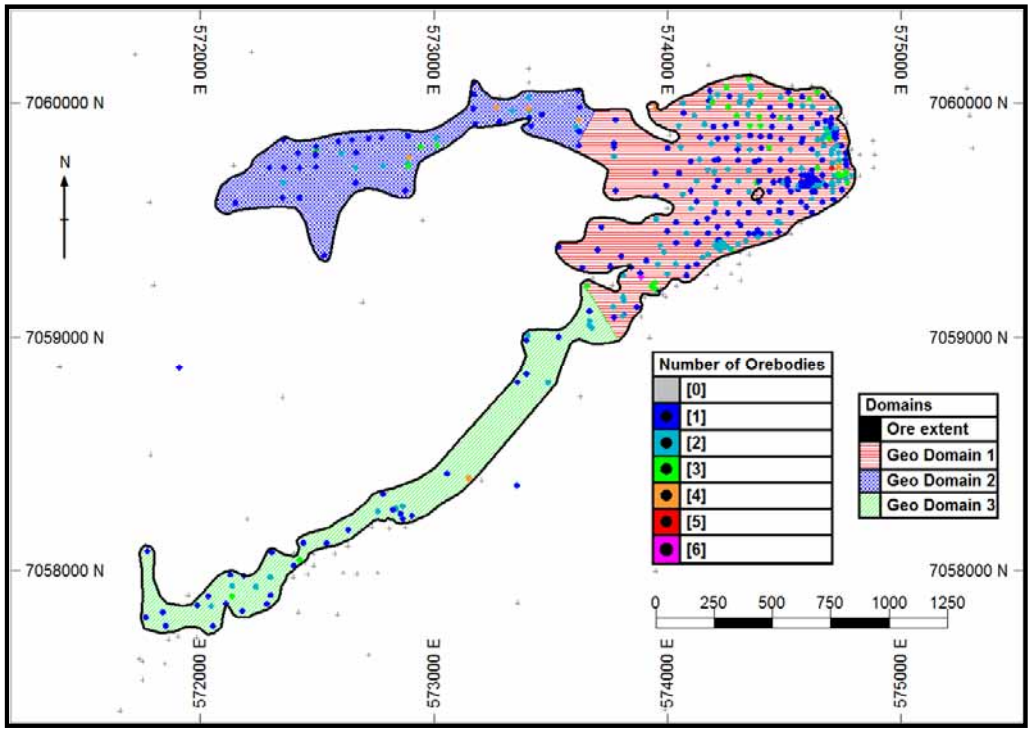


Figure 3: Locality of geostatistical Domain's 1, 2 and 3 for Yuty Uranium Project.

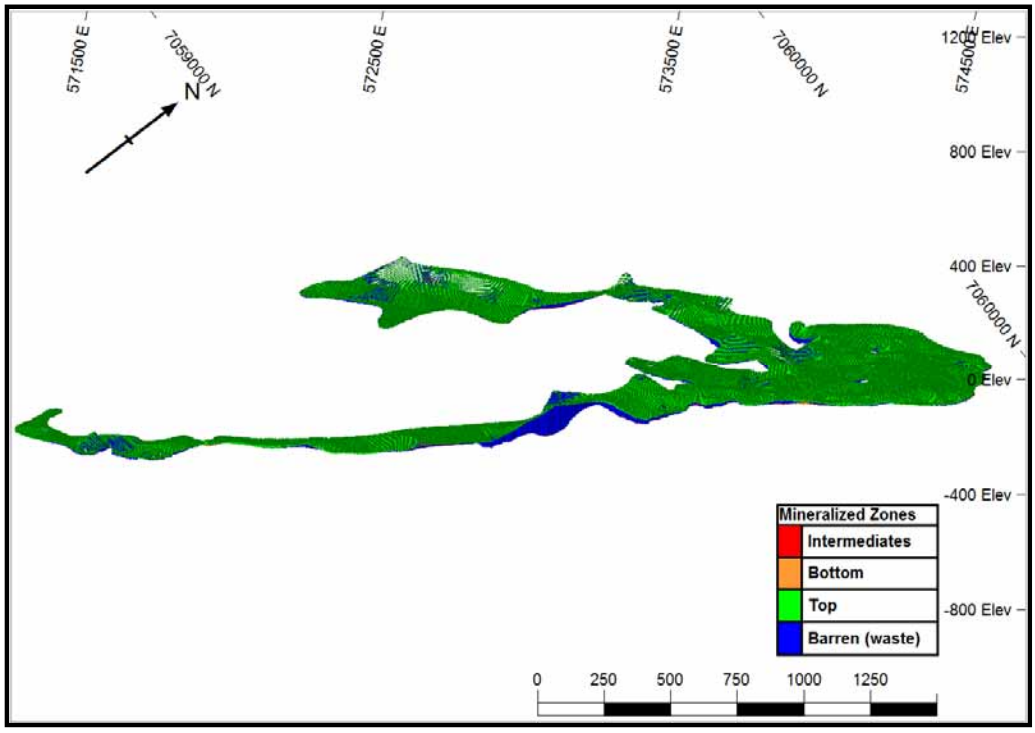


Figure 4: Datamine™ thickness block model 3-dimensional view of Yuty Uranium Project.

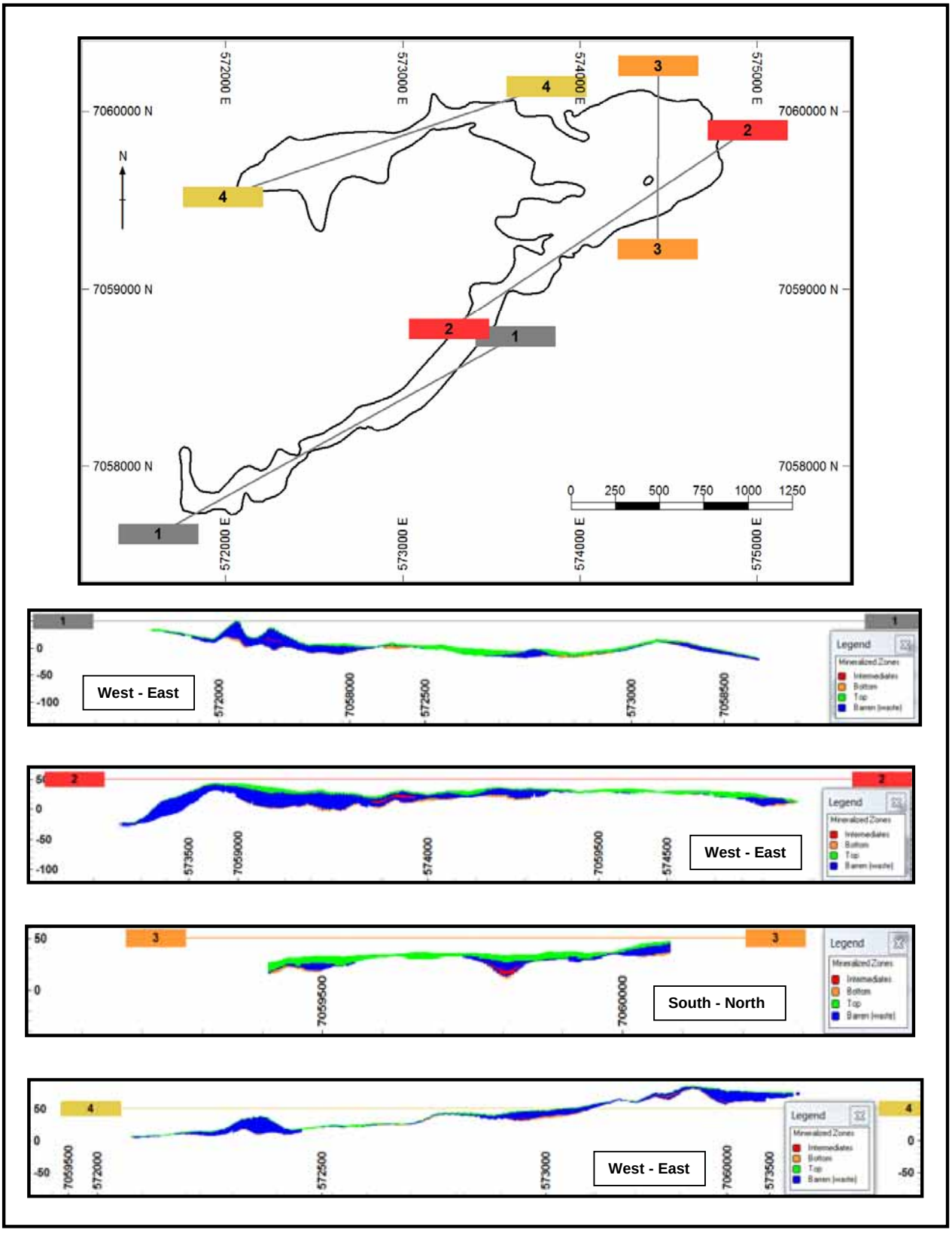


Figure 5: Sections through Datamine^{TM} block model of Yuty Uranium Project. Vertical exaggeration of 1.5 times in the vertical applied to sections.

Geostatistical Methodology

In the first instance the data was demarcated in a 0.02% eU_3O_8 envelope which singled out country rock from host rock. On perusing the data it became evident that the deposit was three dimensionally distributed in space, and the upper and lower surfaces were very uneven in relation to each other, and to the XY plane (Figure 2). The spatial geostatistics would therefore have to be done in three dimensions.

Because of the uneven vertical thickness of the deposit, cumulative composites would have a random distribution and would not react to the method of geostatistics. Therefore it was decided to practice three dimensional spatial geostatistics on the grade values of the uranium, within the mineralized envelope.

Classical Statistics

The general shape of the deposit dictated that it should be divided up into 3 zones on the basis of shape in the XY plane and in the vertical. The so-called 'nose' of the role front to the NE becomes progressively thinner to the North East; due to a rising foot wall surface towards the base of a diabase in the hanging wall. This was designated Zone or Domain 1 (Figure 3).

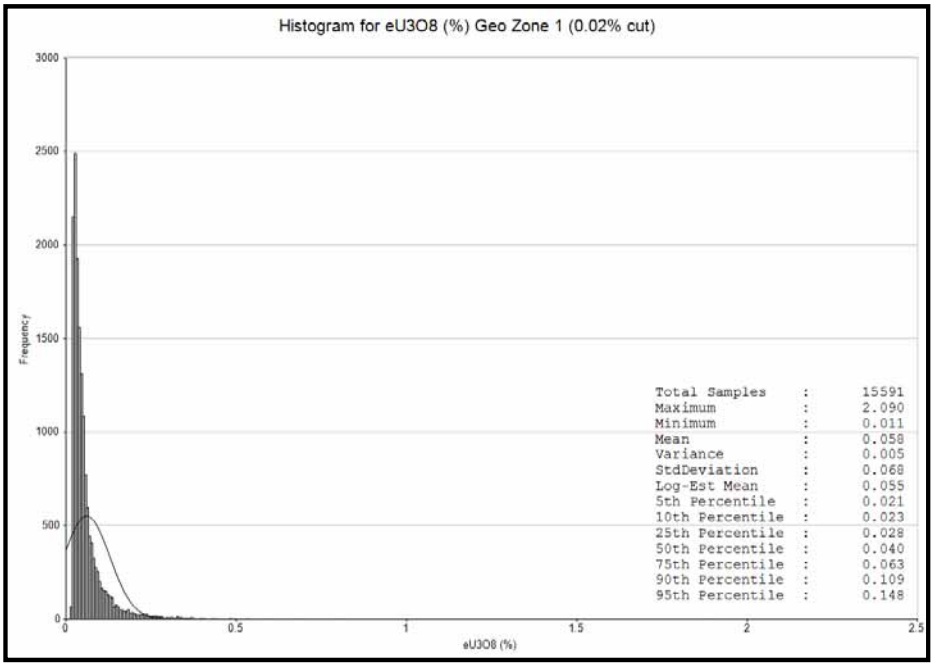


Figure 6: Histogram of geostatistical Domain 1 data comprising the Yuty Uranium Project.

The two so called "tails" have limited extent at right angles to their length and have similar naïve statistics (Figure 6, 7 and 8), and therefore were grouped together as the same population statistically, but evaluated separately due to their different geographical location. Classical statistics of the three geological domains are presented below. The similarity between Zones 2 and 3 is evident, and because of this the variogram model for Zone 2 was also used for Zone 3, as it was more definitive than the one obtained from Zone 3.

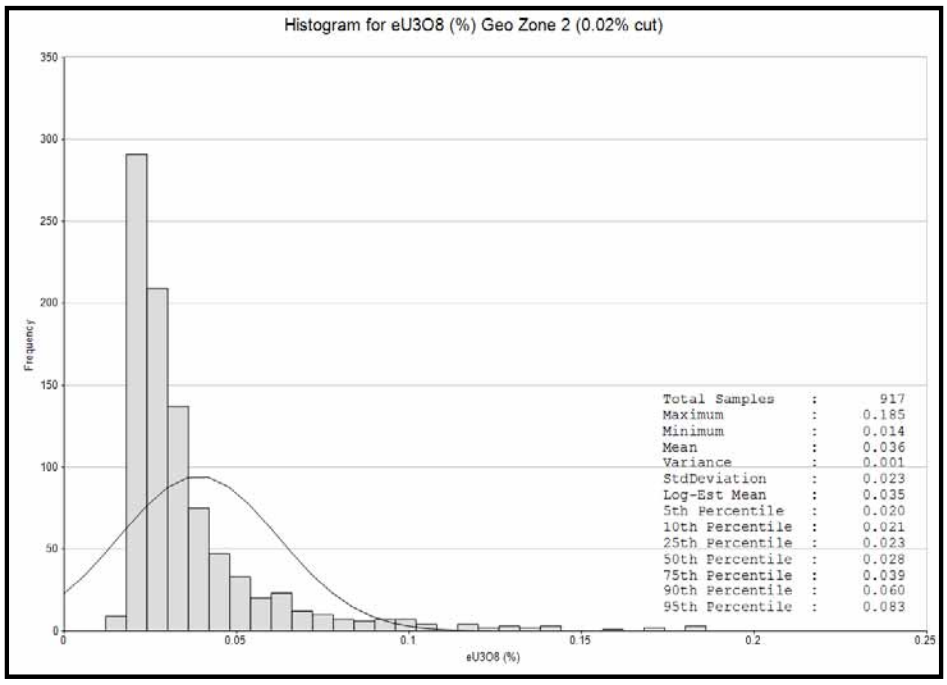


Figure 7: Histogram of geostatistical Domain 2 data comprising the Yuty Uranium Project.

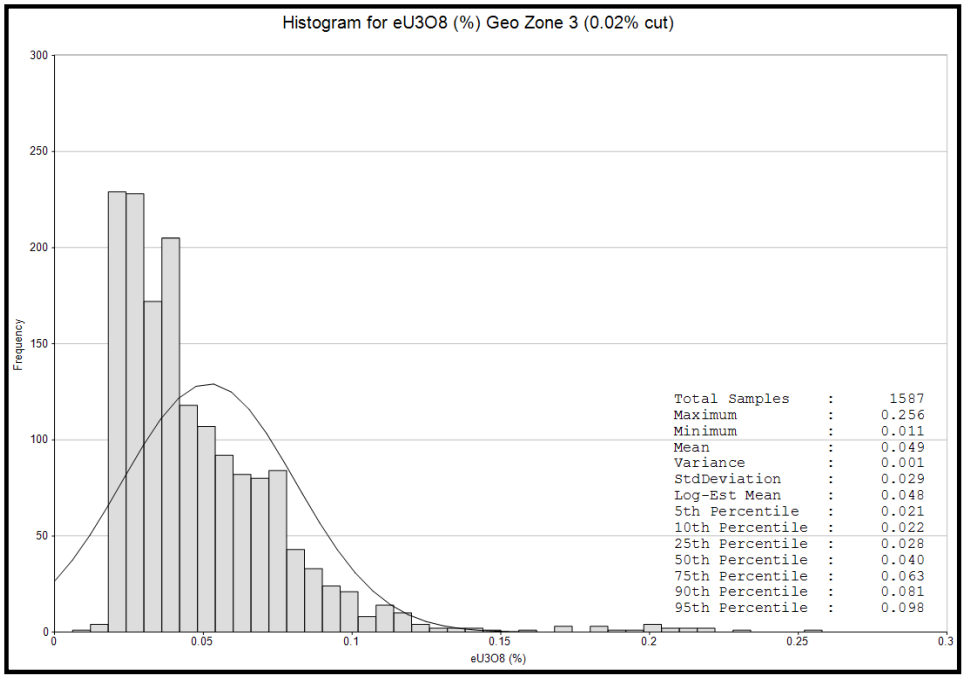


Figure 8: Histogram of geostatistical Domain 3 data comprising the Yuty Uranium Project.

Cutting of Outliers

This was necessary only in zone 3 for the purpose of variogram modeling.

Variography

Variography was performed in both the vertical direction and the XY plane. Minimum and Maximum vertical extents of the model were 0.787 and 1.037 meters respectively and varied both upward and downwards spatially. Therefore in order to find a layer which was of the greatest continuous extent in the XY plane, the data was divided into 0.1 meter layers, with the zero datum set to the top of each mineralized zone. It was decided that this would suit the characteristic distribution of uranium in a roll front the best. From this set of layered data the average variograms in the XY plane were analyzed for the top 20 layers (being the most continuous), until the most distinctive anisotropic structures could be discerned. The variograms are displayed graphically below in Figures 8 and 10 for the three zones. Vertical variograms were also modeled on the 0.1 meter composites to give a model in the Z direction. It is not thought that the direction would veer much from the vertical over the short distance of the database in the Z. These spherical models did not reach the sill (population variance of the data), and therefore were projected to the population variance of the XY data, so they could be combined as the third dimension in the variography. The vertical variograms are shown separately in Figures 9 and 11 below for the sake of clarity, (Z scale much larger than XY scale of horizontal variograms models). The geological explanation for them not reaching the population variance is probably due to the selection of samples above 0.02% eU_3O_8 a part of the population has been removed, the waste zones.

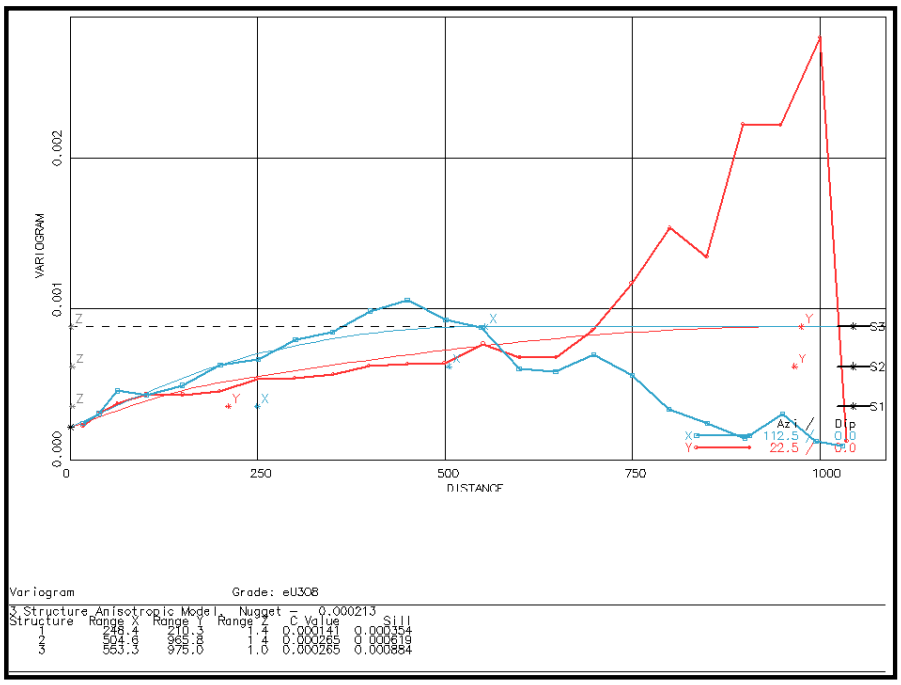


Figure 9: Modelled horizontal point semi-variogram for the eU_3O_8 (%) value in geostatistical domain 1 of the drill hole data for Yuty Uranium Project.

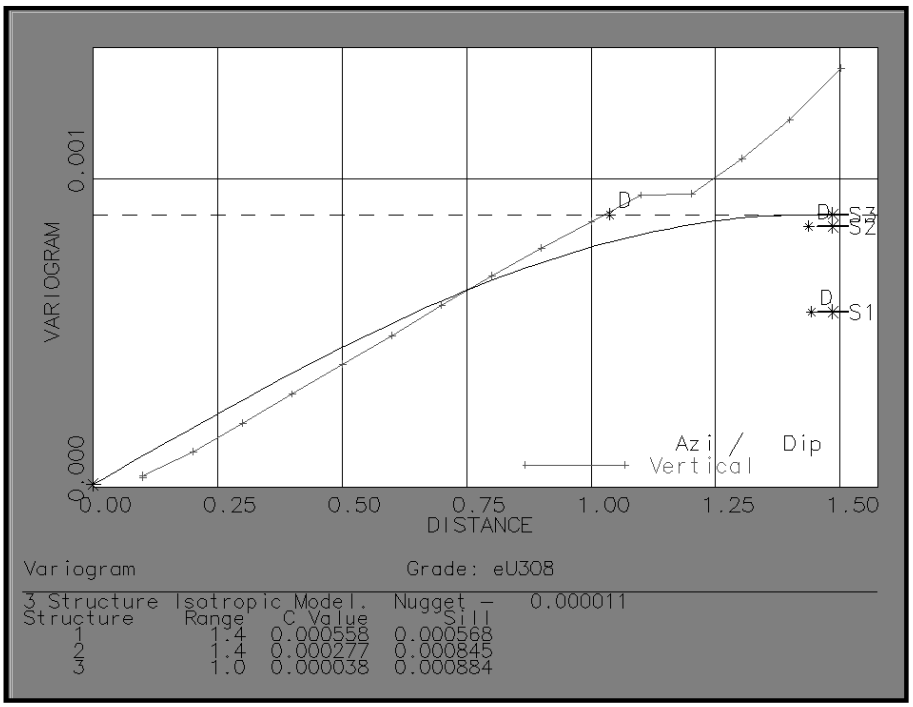


Figure 10: Modelled vertical point semi-variogram for the eU_3O_8 (%) value in geostatistical domain 1 of the drill hole data for Yuty Uranium Project.

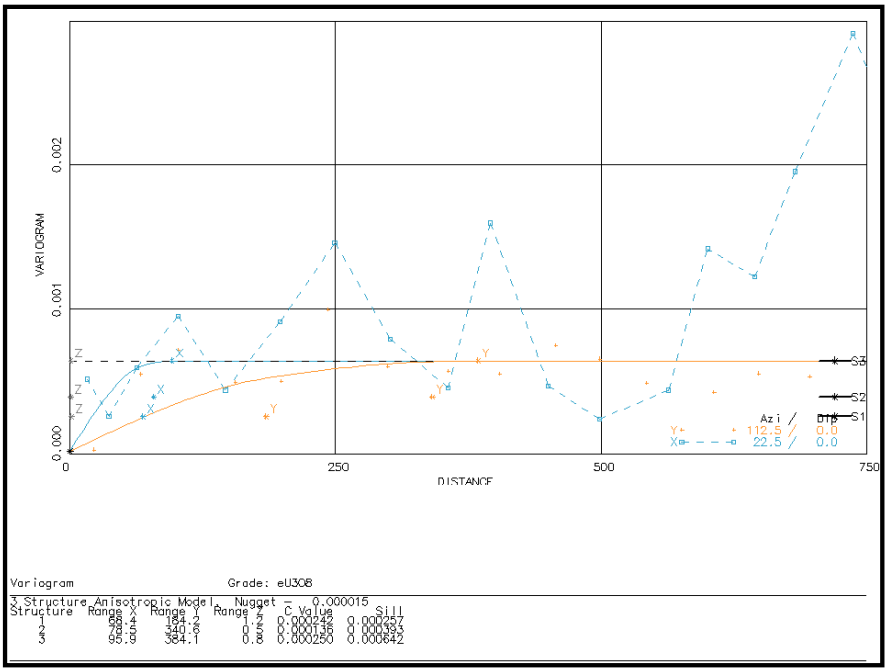


Figure 11: Modelled horizontal point semi-variogram for the eU_3O_8 (%) value in geostatistical domain 1 of the drill hole data for Yuty Uranium Project.

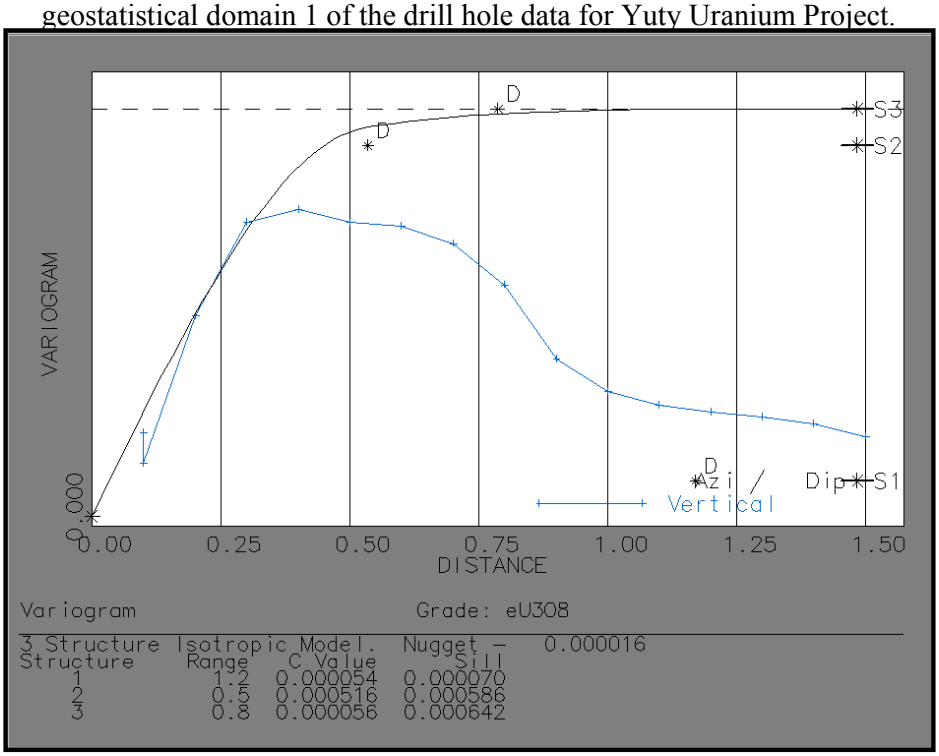


Figure 12: Modelled vertical point semi-variogram for the eU_3O_8 (%) value in geostatistical domain 2 and 3 of the drill hole data for Yuty Uranium Project.

Data Sources

The Yuty data is the result of down the hole radiometric logging which was calibrated by having samples analyzed chemically for uranium. A detailed account of the QA/QC procedure is given in Healex (2009) page 31.

Kriging Methodology

Optimum block sizes and the optimum number of samples to access in the estimate were determined by a number of test runs on strategically placed blocks in high density and low density areas in each zone on the uppermost horizon. The optimum parameters were determined by seeing what produced the best regression slope (R) and kriging efficiency, and the lowest spread in 90% confidence limits. These three parameters actually produce excellent correlations amongst themselves. An example of the regressions is presented in Figures 13 to 14 for Domain 1. Optimum parameters used for the ordinary kriging operation are tabulated below in Table 1. An octant search was practiced to force the access of samples from different holes, to give a better representative spread of data, both vertically and horizontally. The variogram of zone 2 was also used for zone 3 as it was thought to be more definitive. However a very similar variogram was obtained in zone 3 in the 90 degree azimuth direction to the 112 degree azimuth direction used in zone 2 and 3, showing that classically and spatially the two limbs are similar.

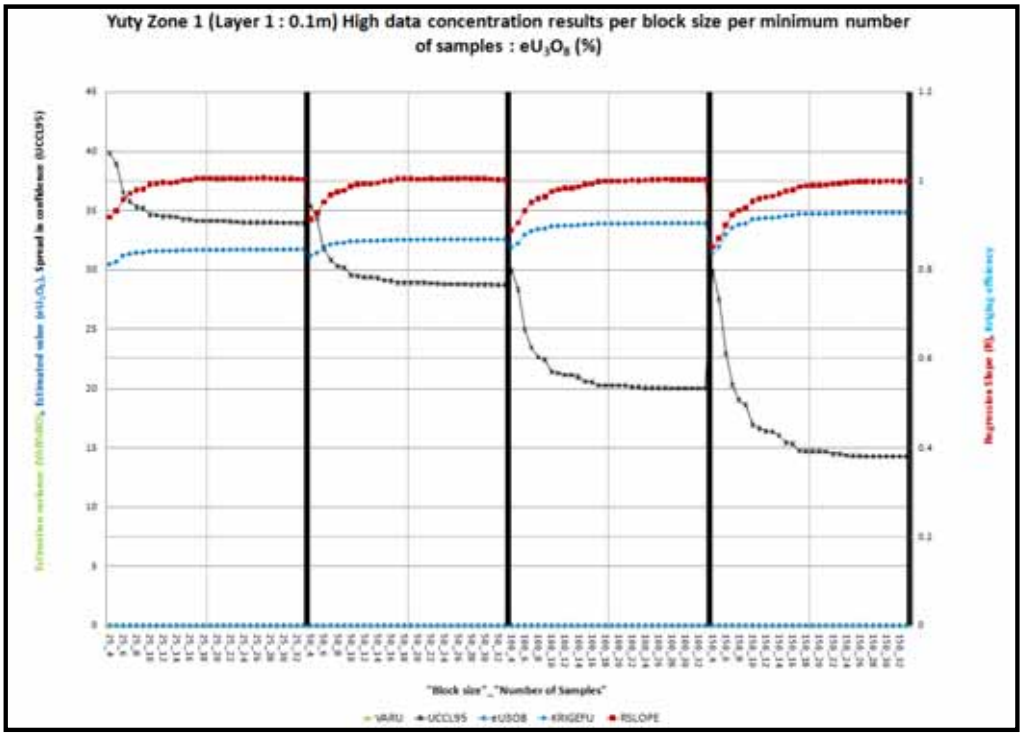


Figure 13: Example of geostatistical determination of optimum block size for Mineral Resource estimation.

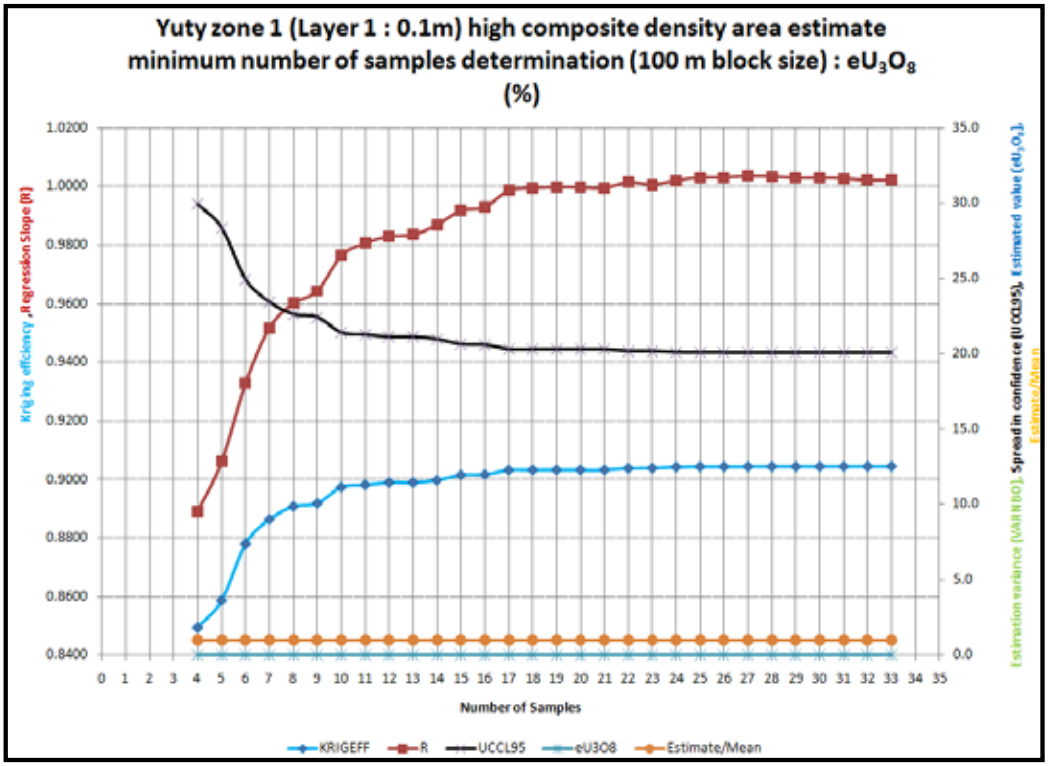


Figure 14: Example of geostatistical determination of minimum and maximum number of samples for Mineral Resource estimation.

1.1 Kriging Parameters

Table 1 gives the estimation, variogram and search parameters used for the Yuty Mineral Resource estimate. An octant search with the minimum of four octants having at least one sample in was chosen. The search distance was the range of the variograms in the 3 axes.

Search volume parameters

SREFNUM (A12)	SMETHOD (N)	SDIST1 (N)	SDIST2 (N)	SDIST3 (N)	SANGLE1 (N)	SANGLE2 (N)	SANGLE3 (N)	SAXIS1 (N)	SAXIS2 (N)	SAXIS3 (N)	OCTMETH (N)	MINOCT (N)	MINPEROC (N)	MAXPEROC (N)	MINNUM1 (N)	MAXNUM1 (N)
Zone 1	2	553.252563	975.04541	1.037	22.5	0	0	3	2	1	1	4	1	30	10	18
Zone 2 and 3	2	95.890732	384.052643	0.787	-67.5	0	180	3	2	1	1	2	1	30	7	12

Variogram parameters

VREFNUM (A12)	VANGLE1 (N)	VANGLE2 (N)	VANGLE3 (N)	VAXIS1 (N)	VAXIS2 (N)	VAXIS3 (N)	NUGGET (N)	ST1 (N)	ST1PAR1 (N)	ST1PAR2 (N)	ST1PAR3 (N)	ST1PAR4 (N)	ST2 (N)	ST2PAR1 (N)	ST2PAR2 (N)	ST2PAR3 (N)
Zone 1	22.5	-0	0	3	2	1	0.00021284	1	248.4053362	210.2994361	1.442	0.00014066	1	504.6346645	965.84745542	1.436
Zone 2 and 3	-67.5	-0	180	3	2	1	0.00001494	1	68.37778657	184.22176547	1.17	0.00024197	1	78.51413472	340.61113697	0.534

ST1PAR4 (N)	ST2 (N)	ST2PAR1 (N)	ST2PAR2 (N)	ST2PAR3 (N)	ST2PAR4 (N)	ST3 (N)	ST3PAR1 (N)	ST3PAR2 (N)	ST3PAR3 (N)	ST3PAR4 (N)
0.00014066	1	504.6346645	965.84745542	1.436	0.00026513	1	553.25253704	975.04543131	1.037	0.00026513
0.00024197	1	78.51413472	340.61113697	0.534	0.00013562	1	95.89073156	384.05262906	0.787	0.00024974

Estimation parameters

VALUE_IN (A8)	VALUE_OU (A8)	SREFNUM (N)	IMETHOD (N)	POWER (N)	ADDCON (N)	MAXITER (N)	KRIGNEGW (N)	KRIGVARS (N)
eU3O8	eU3O8	1	3	0	0	3	1	1
eU3O8	FFUNCU	1	101	0	0	3	1	1
eU3O8	LGMU	1	102	0	0	3	1	1
eU3O8	AVGU	1	2	0	0	3	1	1
eU3O8	NNU	1	1	0	0	3	1	1
eU3O8	UIPD2	2	2	2	0	3	0	1
eU3O8	UIPD3	2	2	3	0	3	0	1

Table 1: Tabulation of estimation, variogram and search parameters used in the Yuty Uranium Mineral Resource.

Mineral Resource Categorization

The 3 dimensionally kriged block models were categorized into Measured, Indicated and Inferred on the basis of global industrial wide accepted limits at the 90% confidence interval (Figure 16). The over-riding factor was that no indicated resources was allowed beyond a search volume, equal to the range of the variograms as pairs of samples that far apart show no correlation. The spread in confidence limits at the 90th percent confidence level of the eU_3O_8 (%) kriged estimate (UCCL90), was utilized in the Resource categorization as follows:

- Zone 1 50 X 50 blocks <= 1.6% UCCL90 for Measured
- Zone 1 100 X 100 blocks <= 12.0% UCCL90 for Indicated
- Zone 2 150 x 150 blocks <= 22.0% UCCL90 for Indicated
- Zone 3 200 X 200 blocks <= 22.0% UCCL90 for Indicated

UCCL90 %,s > than these categorize the blocks as inferred, with the provision that a %UCCL90 > 50% in a 200 X 200 meter block and > 55% in a 300 X 300 meter block would delegate the resource to exploration results unless some other regional geological knowledge can support an inferred classification.A value greater than 22% spread in confidence limits at the 90th percent confidence level is categorized as an Inferred Resource. Any 200 x 200m block with a spread in confidence greater than 50% and any 300 x 300m block with a spread in confidence greater than 55% would delegate the resource to exploration results unless some other regional geological knowledge can support an Inferred classification. An area of measured resources was delineated in Zone 1, where spread in confidence limits was less that 1.6%. (This was equivalent to a kriging efficiency of 0.952, and a regression slope (R) of 0.992.

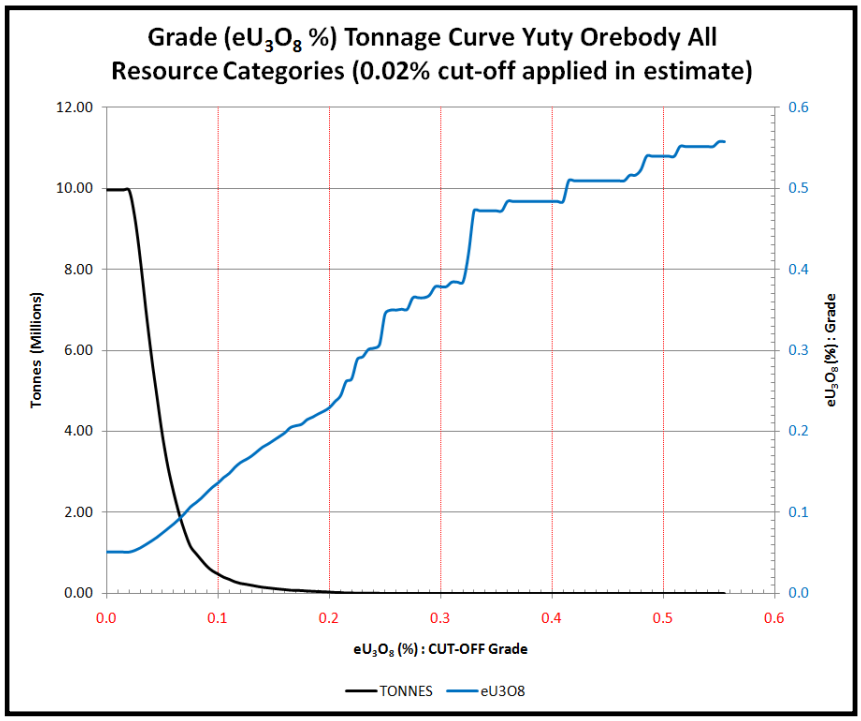


Figure 15: Grade tonnage curve for the Mineral Resource estimate, Yuty Project.

A grade-tonnage curve is given in Figure 15 and the Mineral Resource tabulation in Table 2. Once all the different categories of block models had been combined, they were restored to real space position, and the resources tabulated as shown below:

12 July 2011	Mineral Resource Category	Tonnes (million)	Grade eU_3O_8 (%)	eU_3O_8 (metric tonnes)	eU_3O_8 (million lbs)
	Measured	2.054	0.062	1,270	2.801
	Indicated	5.783	0.048	2,773	6.113
	Measured + Indicated	**7.837**	**0.052**	**4,043**	**8.914**
	Inferred	2.139	0.047	1,010	2.226

Table 2: Mineral Resource tabulation for Yuty Uranium Project, Paraguay at a 0.02% eU_3O_8 estimate, data and aerial extent cut-off. Figures have been rounded-off to the appropriate level of accuracy.

Previous estimates were completed as two dimensional estimates utilizing the GT Contour Method resulting is an estimated Indicated Resource totaling 9.0 M tonnes at an average grade of 0.042% eU_3O_8 for a total of 8.3M lbs contained eU_3O_8 and an additional Inferred Resource totaling 1.1 M tonnes at an average grade of 0.050% eU_3O_8 for a total of 1.2M lbs contained eU_3O_8.

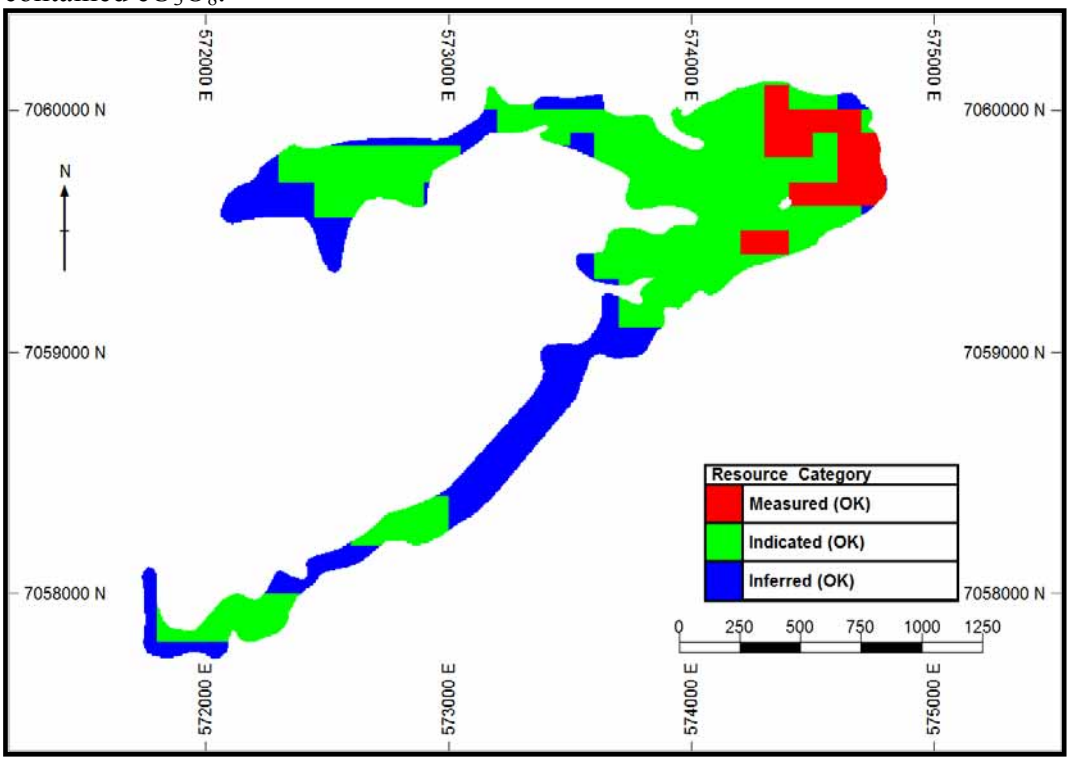


Figure 16: Yuty Uranium Project Mineral Resource estimate – Mineral Resource Category.

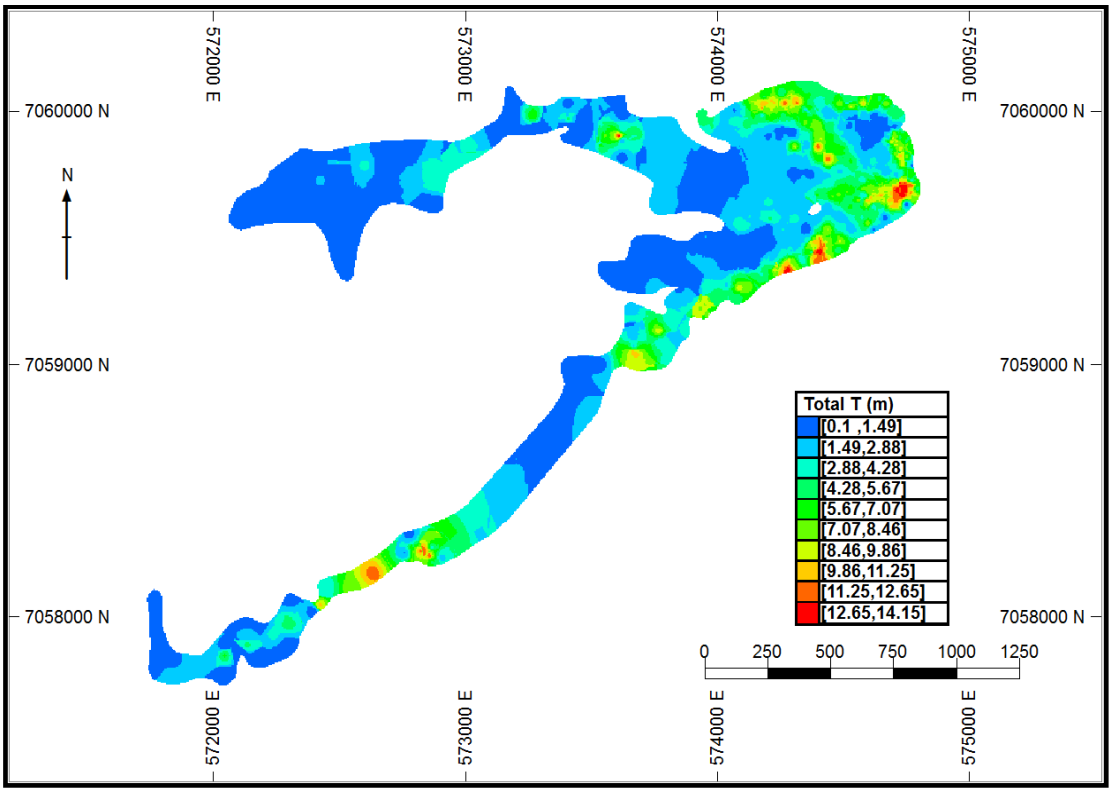


Figure 17: Yuty Uranium Mineral Resource estimate total average – eU_3O_8 (%).

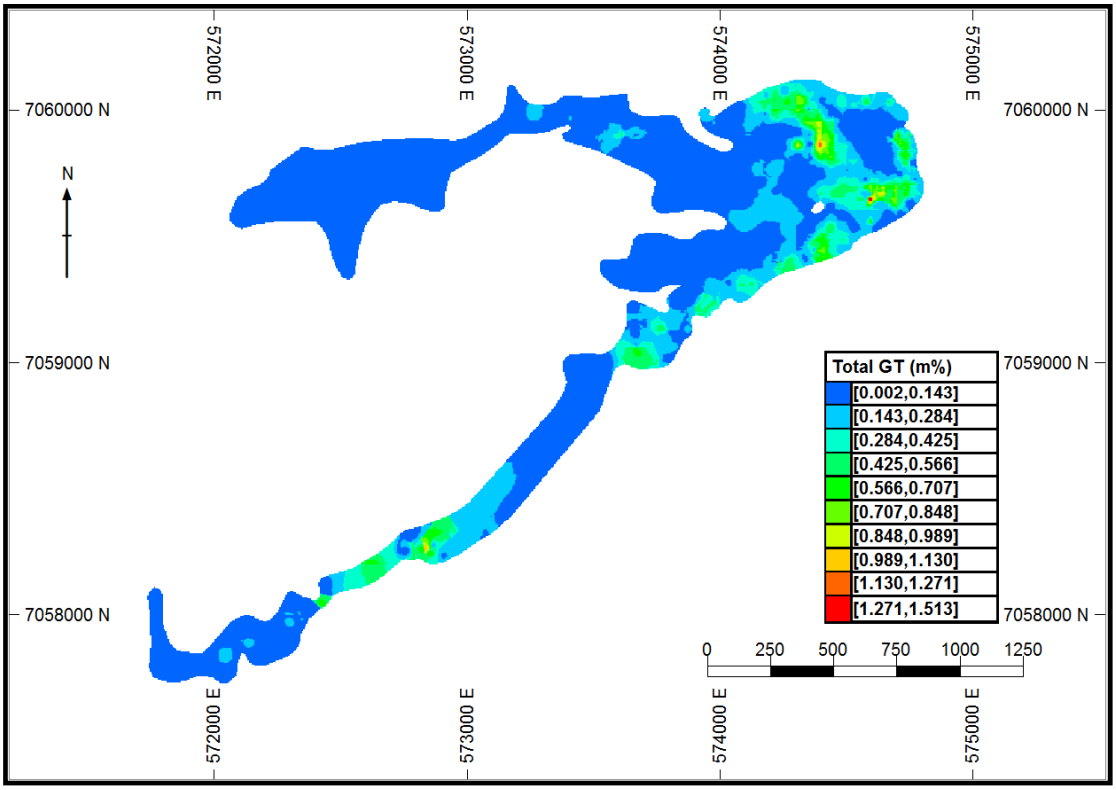


Figure 18: Yuty Uranium Mineral Resource estimate total grade thickness– GT (%m).

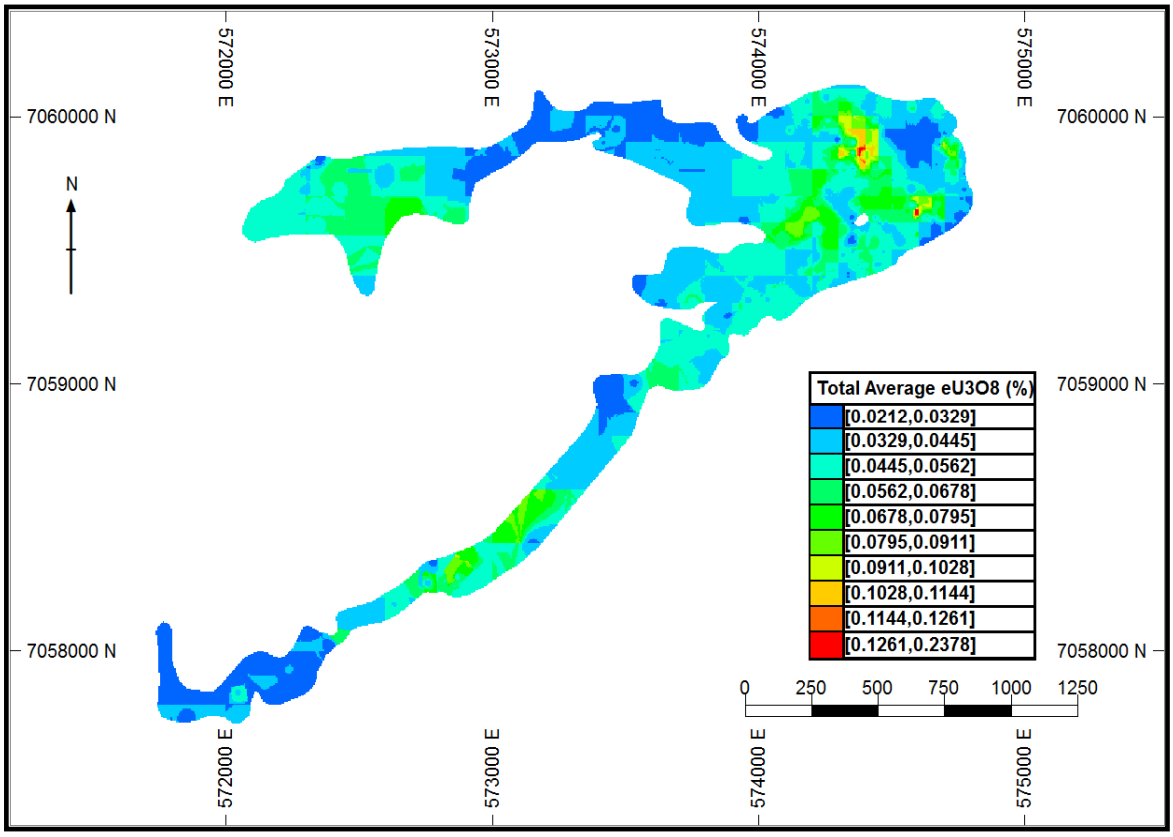


Figure 19: Yuty Uranium Mineral Resource estimate total thickness– T (%).

Reconciliation

Reconciliation of the estimate versus actual borehole composites was completed by means of visual inspection, swath trend analysis and linear regression of the values. Reconciliation was completed in the high density sample area of the model by regressing the estimate versus the arithmetic average calculation in the same search volume (Figure 20). These regressions produced coefficients of determination (R^2) of between 0.94-0.99. A swath analysis is also presented to verify whether any overestimate or under estimate has occurred in the model (Figure 19). The swath analysis generally followed the average borehole value.

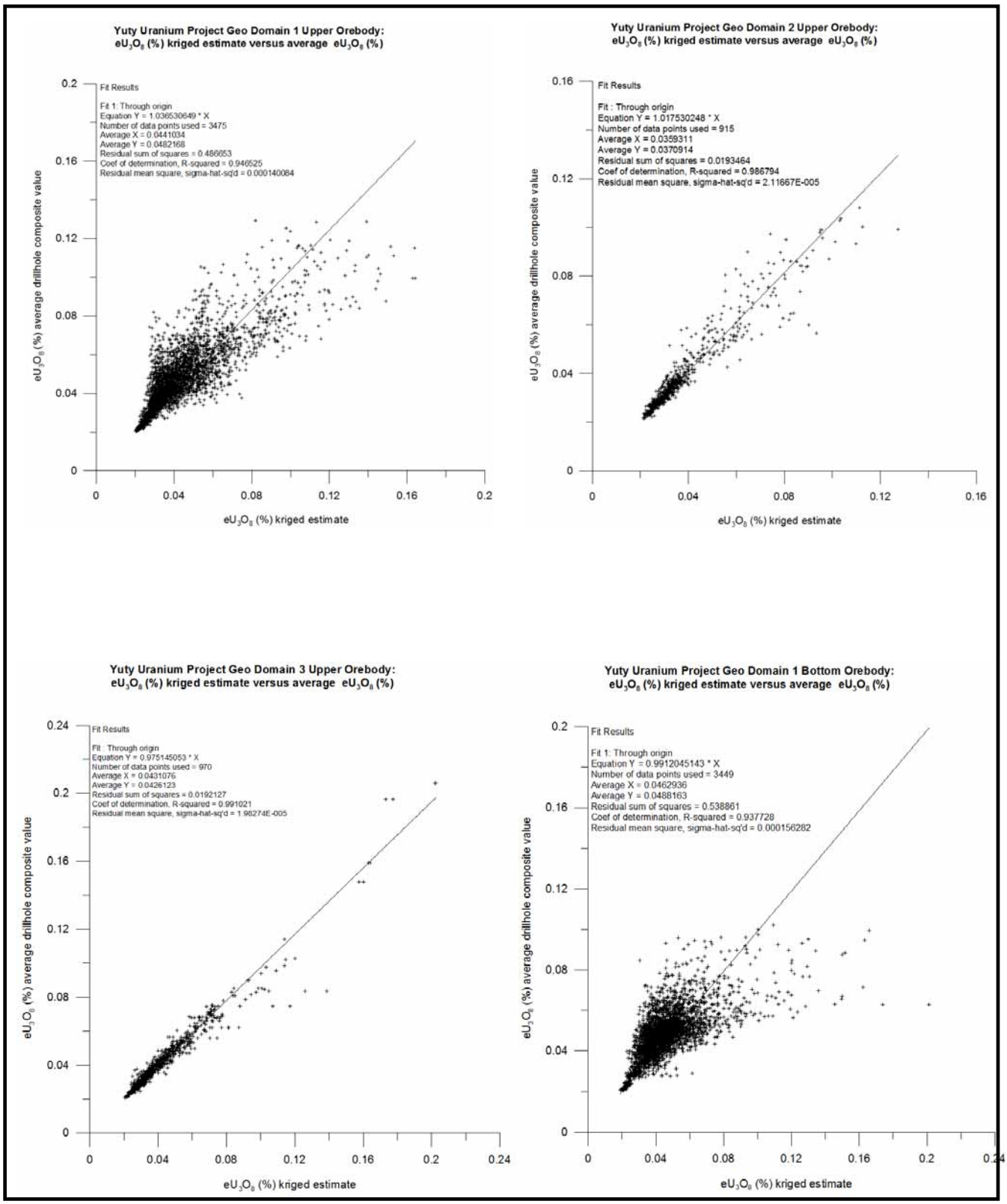


Figure 20: Examples of regressions done on kriged eU_3O_8 (%) estimates versus borehole average eU_3O_8 (%) values for Upper and Lower mineralized zones for Domains 1, 2 and 3– Yuty Uranium Project.

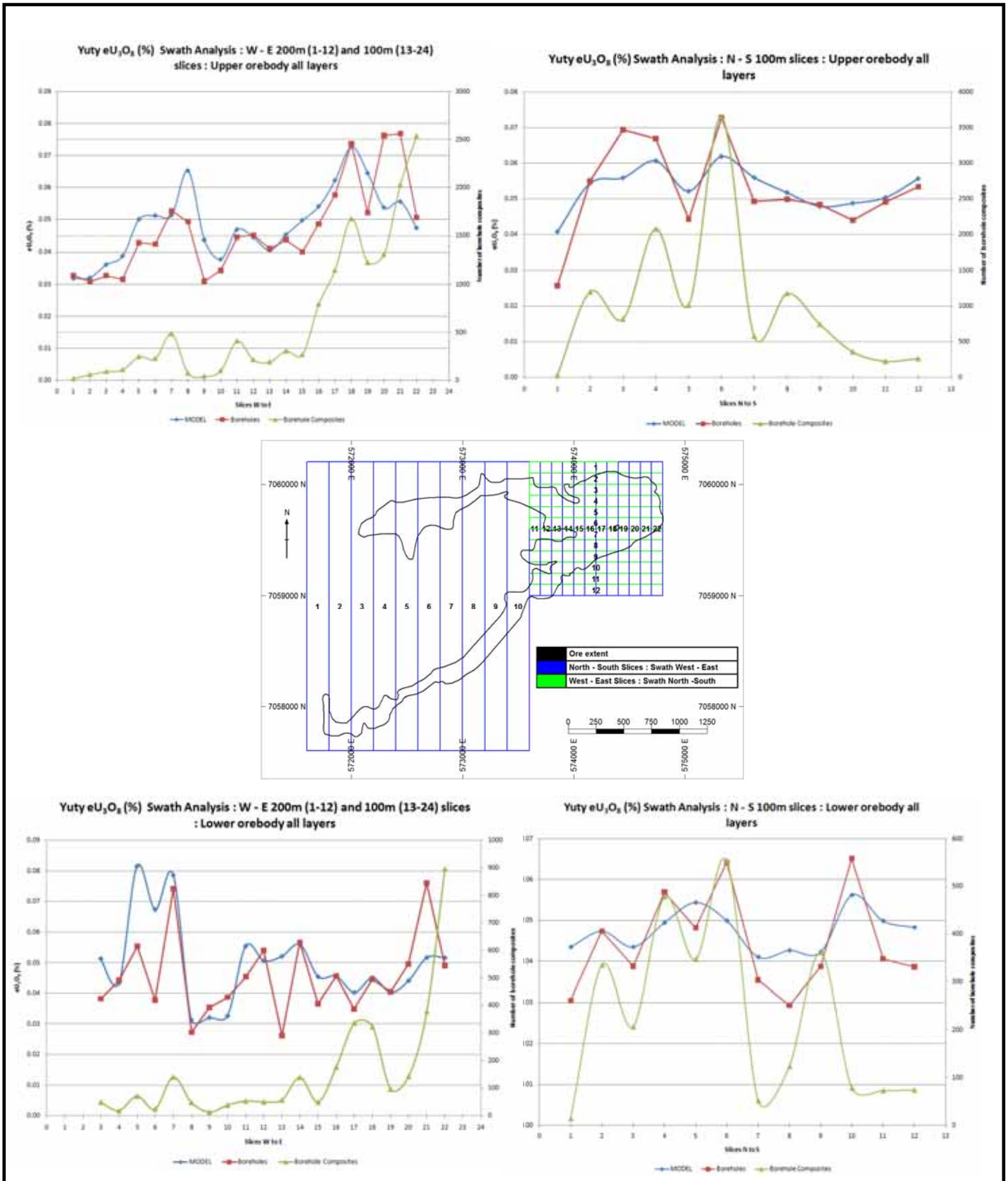


Figure 21: Swath analysis for Yuty Uranium Project.

Interpretation and Conclusions

The Yuty project Uranium deposit constitutes an important mineral deposit in the area. Uranium is enriched in a permeable sandstone horizon (San Miguel formation) which shows porosity values comparable to other commercial ISR operations.

A 3-dimensional model allows for a better understanding of the mineralization controls as well as facilitating the basis for a mine design. Should in-situ recovery (ISR) methods be the extraction method of choice, it can be utilized to design and test well positions and configurations.

Geostatistical methods can be applied to roll front deposits successfully if a robust geological constraint is interpreted as its base. This approach allows for a Resource model that can be evaluated at any particular thickness (T) or grade thickness (GT), whilst remaining within a 0.02% U_3O_8 cut-off individual composite grade.

Recommendations

The following is recommended by ExplorMine Consultants:

- Promising high value areas in Inferred Resources can be upgraded to Indicated Resources by infill drilling on a regular grid, to drill spacing, seen in the indicated resources delineated elsewhere within the project provide the new drilling demonstrates a similar level of continuity with respect to grade and thickness of mineralization. If the company requires quoting further measured resources, high value areas can be extended at the same drill spacing, as in the present measured areas. However, indicated resources are of sufficient confidence levels to enable feasibility studies.
- Demarcation of any geological horizons such as impermeable horizons within the sedimentary succession would be very useful to practice geological constraints on the extremities of the host rock in the model, and also for planning the pumping operations for extraction purposes.
- Permeability values should be geostatistically estimated and extrapolated to predict possible further mineralization zones and areas.
- Additional drilling is required to better define the south western tail between Easting 573000 and 574000.
- There is a marked change in elevation between the mentioned area above and the area to the northeast. This may be due to faulting and should be investigated.
- There are a number of areas on the edge of the current deposit model that have thick mineralization and show only one mineralized zone. It is expected that the mineralized zone thins and possibly bifurcates on extremities of the deposit. These extents may be extended with further drilling.

15. MINERAL RESERVE ESTIMATE

Mineral reserves cannot be declared at this time on the Yuty Property, because a Preliminary Assessment has not yet been carried out.

16. MINING METHODS

A Preliminary Assessment has not been completed for this project to date. Thus, no definitive conclusions as to mining methods can be made at this time. However, based on available data and similarities of the San Antonia mineral deposit to other areas, such as the Wyoming sandstone deposits, it is the author's opinion that the deposit may be amenable to ISR recovery using acid leach and/or open pit mining with heap leach recovery.

17. RECOVERY METHODS

A Preliminary Assessment has not been completed for this project to date. Thus, no definitive conclusions as to recovery methods can be made at this time. However, as previously stated, it is the author's opinion that the deposit may be amenable to ISR recovery using acid leach.

18. PROJECT INFRASTRUCTURE

Although some infrastructure with respect to access, electricity and water supply is present in proximity of the project, in the absence of a Preliminary Assessment no definitive conclusion with respect to the adequacy of project infrastructure can be made at this time.

19. MARKET STUDIES AND CONTRACTS

Market studies and contracts are not applicable to this level of study which is limited to an assessment of mineral resources not reserves.

20. ENVIRONMENTAL STUDIES, PERMITTING AND SOCIAL OR COMMUNITY IMPACT

Not applicable to this mineral resource report as a Preliminary Assessment has not been completed.

21. CAPITAL AND OPERATING COSTS

Not applicable to this mineral resource report as a Preliminary Assessment has not been completed.

22. ECONOMIC ANALYSIS

Not applicable to this mineral resource report as a Preliminary Assessment has not been completed.

23. ADJACENT PROPERTIES

There is a mineral concession held by WildHorse Explorations S.A. (WildHorse). This mineral concession is adjacent to the Block 2 and Northern blocks N1, N2, and N3 and is considered to be an adjacent property under the definition of NI 43-101. Healex understands that WildHorse is planning to carry out some preliminary exploration activities on these lands, such as surface geological mapping, sampling and compilation of earlier results. WildHorse has announced that exploration drilling has commenced on its property (WildHorse Press Release, April 23, 2008).

24. OTHER RELEVANT DATA AND INFORMATION

This report is a mineral resource report not a mineral reserve report. Uranium mineralization in the San Antonio area of the Yuty Project is well defined by drilling and could support a preliminary feasibility study which would allow evaluation of mineral reserves.

As documented in this and previous Technical Reports, the mineral deposit is generally in radiometric equilibrium as demonstrated by chemical assays supporting the use of radiometric equivalent uranium grade determinations for evaluation of mineral resources.

As documented in this and previous Technical Reports, the general geologic and hydrologic setting and conditions of the San Antonio area are compatible with in situ recovery methods or ISR.

25. INTERPRETATION AND CONCLUSIONS

EXPLORATION POTENTIAL

In general, the Yuty Uranium Project is at an intermediate stage of exploration. The San Antonio area, however, has received considerable drilling and is at an advanced stage of exploration or at the predevelopment stage. A number of areas of anomalous concentrations in uranium occur in UPC sedimentary rocks within the project land. Past work was focused on developing roll front-type targets. Preliminary interpretation of drill results in the San Antonio area suggests that the basal sandstone unit (San Miguel Formation) is the favourable host for uranium mineralization. These results also suggest that the diabase sill overlying the San Miguel Formation may have acted as trap for diagenetic fluids and provided a horizontal conduit for the circulation of the diagenetic fluids and emplacement of uranium mineralization near the margin of a topographic high (gentle hill) below the diabase sill. Additional ground investigations need to be carried out to assess the exploration potential of these anomalous areas.

There are other areas of anomalous uranium within the Yuty Uranium Project area, such as the Northern Block. These uranium anomalies display characteristics that are similar to those exhibited by the targets close to the town of Yuty (Healex, 2009).

CONCLUSIONS

The new mineral resource estimate was based on the development of a three dimensional geologic and Resource model. The geological model was based on a uranium radiometric drill hole value cut-off of 0.02% (eU_3O_8) at a minimum thickness of 0.1m. This facilitated the creation of the mineralized zone aerial extent. Resource estimation was completed utilizing standard geostatistical methods applied to a 3-dimensional block model in Datamine™ mining and exploration modeling software.

The classification of the Mineral resource is based on the spread in confidence around the 90% confidence limit. The current mineral resource estimate includes resources in the categories of Measured, Indicated and Inferred, as follows:

11 July 2011	Mineral Resource Category	Tonnes (million)	Grade eU_3O_8 (%)	eU_3O_8 (tonnes)	eU_3O_8 (million lbs)
	Measured	2.054	0.062	1,270	2.801
	Indicated	5.783	0.048	2,773	6.113
	Measured + Indicated	**7.837**	**0.052**	**4,043**	**8.914**
	Inferred	2.139	0.047	1,010	2.226

Notes
1. Tonnes and element lbs's have been rounded-off to the appropriate level of accuracy.
2. Resource estimate completed at a 0.02 % eU_3O_8 data and aerial boundary cut-off.

- The style of mineralization exhibits some similarities to roll-front mineralization. The classic tails and nose style mineralization is noted; however the extent of the thick "nose" style zones is far more continuous than is seen in roll-front deposits in North America. This results in the most significant mineralized zones being hosted by relatively flat-lying to gently southeast dipped sandstone units, which exhibit good lateral continuity.

- The project area was previously drilled by Anschutz in the late 1970's and early 1980's. That drilling indicated the potential presence of a significant concentration of uranium.

- Since June 2007, Cue has completed 256 drill holes in the San Antonio area. This includes 51 new drill holes completed between April and July 2008, which were drilled after the completion of the Scott Wilson (2008) resource estimate and 33 holes completed in November and December, 2010 after the completion of the 2009 resource update (Healex, 2009)

- Studies to date indicate that the deposit may be amenable to extraction by in situ recovery (ISR) methods.

- Metallurgical test work indicates that a satisfactory rate of extraction can be obtained using a sulphuric acid lixiviant.

- Aquifer testing, via pump tests, completed in 2011 and previous permeability and porosity testing on drill cores gives a preliminary indication that the parameters are comparable to successful ISR operations in other parts of the world.

- The methodologies of lithologic and radiometric logging procedures, and sampling and assaying during the recent drilling campaigns are in keeping with industry standards.

26. RECOMMENDATIONS

The author recommends that Cue Resources:

- Perform additional metallurgical test work to further demonstrate and refine amenability with respect to in situ and/or heap leach recovery. This should include further column leach testing.
- Complete further drilling on the San Antonio deposit with the objective of resource expansion and reclassification following the general recommendations provided in Section 14 of this report.. A program of 125 holes @ 120 m each, for a total of 15,000 m is recommended, with a 90 m offset spacing for 75 step-out holes and < 50m for infill holes. However, as drilling program proceeds the results should be compared to the current resource model and the program adjusted as appropriate.

- Carry out a Preliminary Assessment on the conceptual development of a mine at San Antonio with two options; an open pit mine with heap leach recovery and in-situ recovery.

- On completion of the above recommendations, a second phase of exploration work should commence. This will focus on the mapping, trenching, sampling and drilling at the other target areas, namely Yarati-í, San Miguel and Typychaty.

- Continue with the regional exploration program to assess the exploration potential for uranium mineralization within its vast mineral lands in southeastern Paraguay. The objective of this work is to discover uranium mineralization similar to known roll-front type deposits.

Cue Resources has prepared a preliminary budget for 2011/2012 in the order of US$4.0 million. The author has reviewed this budget and concludes that it is of sufficient magnitude to recommendations as stated herein.

TABLE 1-1 RECOMMENDED EXPLORATION PROGRAM AND BUDGET FOR 2010/2011

Budget	US$
Permeability test	20,000
Column Leach Testing	100,000
Drilling/Logistics – San Antonio	2,000,000
Preliminary Assessment	100,000
Annual land payments	255,000
Environmental baseline	80,000
Staff (Paraguay/Canada)	240,000
Legal (Paraguay /Canada)	80,000
Consultants	100,000
Travel	200,000
Asuncion office	60,000
G&A	400,000
Sub-total	3,619,000
Contingency @ 10%	361,900
TOTAL	**3,980,900**

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28. DATE and SIGNATURE PAGE

This report titled "Updated Technical Report on the Yuty Uranium Project, Republic of Paraguay" and dated August 24, 2011, was prepared and signed by the author:

Signed and sealed **Dated: 24, August, 2011**

Douglas L. Beahm, PE, PG
President and Pricipal Engineer
BRS Inc.
1130 Major Avenue,
Riverton, Wyoming USA 82501

29. CERTIFICATE OF QUALIFICATIONS

DOUGLAS L. BEAHM

I, Douglas L. Beahm, P.E., P.G., do hereby certify that:

1. I am the author of the report titled "Updated Technical Report on the Yuty Uranium Project, Republic of Paraguay" and dated August 24, 2011.
2. I am responsible for all sections of the report except as noted in the report with respect to Section 14 where I retained the services of ExplorMine Consultants.
3. I am the principal owner and president of BRS, Inc., 1130 Major Avenue, Riverton, Wyoming 82501.
4. I graduated with a Bachelor of Science degree in Geological Engineering from the Colorado School of Mines in 1974.
5. I am a licensed Professional Engineer in Wyoming, Colorado, Utah, and Oregon, and a licensed Professional Geologist in Wyoming.
6. I have worked as an engineer and a geologist for over 37 years. My work experience includes uranium exploration, mine production, and mine/mill decommissioning and reclamation. Specifically, I have worked with uranium projects hosted in sandstone environments in Wyoming, Utah and Colorado which are similar in nature those I observed at the Yuty Project in Paraguay.
7. I have read the definition of "qualified person" set out in National Instrument 43-101 and certify that by reason of my education, professional registration, and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
8. I have prior working experience on the property as stated in the report. Specifically I was on site during November, 2010 at the initiation of the 2010 drilling program.
9. As of the date of this report I am not aware of any material fact or material change with respect to the subject matter of this Technical Report that would affect the conclusions of this report that is not reflected in the Technical Report.
10. I am independent of the issuer applying all of the tests in NI 43-101.
11. I have read NI 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with same.
12. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority.

24 August, 2011
Signed and Sealed

Douglas L. Beahm

CONSENT OF QUALIFIED PERSON

TO: British Columbia Securities Commission
Alberta Securities Commission
TSX Venture Exchange

Re: Press Release (the "Press Release") dated August 25, 2011 of Cue Resources Ltd.

I, Andre Deiss, Pr. Sci. Nat., a qualified person as defined in National Instrument 43-101 *Standards of Disclosure for Mineral Projects*, hereby state that I:

1. am co-responsible for the compilation of the report titled "Updated Technical Report on the Yuty Uranium Project, Republic of Paraguay" dated August 24, 2011 (the "Report), a report prepared for Cue Resources Ltd., which Report is referred to in the Press Release;

2. hereby consent to the public filing of the Report with the British Columbia Securities Commission and Alberta Securities Commission and the TSX Venture Exchange;

3. hereby consent to the use of my name and to references to the Report in the Press Release and to the inclusion of extracts from, or a summary of, the Report in the Press Release; and

4. have read the Press Release and confirm that it fairly and accurately represents the information in the Report.

I also certify that I have no reason to believe that there is any misrepresentation contained in the Press Release which is derived from the Report or of which I am otherwise aware.

Dated this 25th day of August, 2011.

ANDRE DEISS
Pr. Sci. Nat.

CONSENT OF QUALIFIED PERSON

TO: British Columbia Securities Commission
Alberta Securities Commission
TSX Venture Exchange

Re: Press Release (the "Press Release") dated August 25, 2011 of Cue Resources Ltd.

I, Dr. William Northrop, Pr. Sci. Nat., a qualified person as defined in National Instrument 43-101 *Standards of Disclosure for Mineral Projects*, hereby state that I:

1. am co-responsible for the compilation of the report titled "Updated Technical Report on the Yuty Uranium Project, Republic of Paraguay" dated August 24, 2011 (the "Report), a report prepared for Cue Resources Ltd., which Report is referred to in the Press Release;

2. hereby consent to the public filing of the Report with the British Columbia Securities Commission and Alberta Securities Commission and the TSX Venture Exchange;

3. hereby consent to the use of my name and to references to the Report in the Press Release and to the inclusion of extracts from, or a summary of, the Report in the Press Release; and

4. have read the Press Release and confirm that it fairly and accurately represents the information in the Report.

I also certify that I have no reason to believe that there is any misrepresentation contained in the Press Release which is derived from the Report or of which I am otherwise aware.

Dated this 25th day of August, 2011.

BILL NORTHROP
BSc, GDE, MSc, PhD
Pr. Sci. Nat., FSAIMM, FGSSA

APPENDIX A

Geostatistical Approach to the Mineral Resource Estimate for the Yuty Project, Paraguay

Cue Q Resources

REPORT DETAILING THE GEOSTATISTICAL APPROACH TO THE MINERAL RESOURCE ESTIMATE FOR THE YUTY PROJECT, PARAGUAY

11th July 2011

Prepared by:

Bill Northrop PhD, Pr. Sci. Nat, FSAIMM, FGSSA, MGASA
SACNASP Registration number – 400164/87
+27 (72) 728 0024

Andre Deiss BSc (Hons), Pr. Sci. Nat. MSAIMM (Consulting Geologist)
SACNASP Registration number – 400007/97
+27 (83) 272 1620

ExplorMine Consultants
PO Box 1716
Lonehill
2062
South Africa

ExplorMine Consultants

REPORT DETAILING THE GEOSTATISTICAL APPROACH TO THE MINERAL RESOURCE ESTIMATE FOR THE YUTY PROJECT, PARAGUAY

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1. Introduction

1.1 Terms of Reference

ExplorMine Consultants was commissioned by CUE Resources ("Cue") to complete a Mineral Resources estimate for the Yuty Uranium project, Paraguay ("Yuty"). Portions of this Technical Report will be included in a NI 43-101 F1 Report currently being prepared by other consultants BRS Inc. ("BRS"). This Report is not intended to be NI 43-101 compliant on its own.

ExplorMine Consultants is a geological contracting and consulting company. Our experience includes mine ore reserve management, exploration project management, database administration, target generation, geological modelling, Qualified (Competent) Person's Reports and Mineral Reserve and Resource declarations as per various internationally recognised mineral reporting codes including Canadian National Instrument 43-101 ("NI 43-101").

The directors of the company have extensive combined work experience in a wide variety of mineral deposits including platinum, gold, uranium, and base metals, in both the mining and exploration disciplines. The directors have extensive contacts in the South African mining and exploration industry and associated services.

This Report has been prepared based on a technical review by ExplorMine Consultants during the period April 2011 to the effective date of this Report. ExplorMine Consultants in the preparation of this Report has no beneficial interest in Cue Resources or any other related companies and subsidiaries. ExplorMine Consultants will be paid a commission for this Report in accordance with professional consulting practice in South Africa. The professional consulting fee does not rely on the conclusions or recommendations resultant from this Report. This permits the provision of objective views and recommendations.

The individuals who have provided input to this Technical Report have extensive experience in the mining and exploration industry and are members in good standing of appropriate professional institutions are as follows:

- Dr William Northrop Bill Northrop PhD, Pr. Sci. Nat. (400164/87), FSAIMM, FGSSA, MGASA
- Mr. Andre Deiss, BSc (Hons), Pr.Sci.Nat. (400007/97), MSAIMM

Dr William (Bill) Northrop has over 44 years experience in the mining and exploration industry in various commodities including gold, oil, base metals, and diamonds. Dr Northrop has been involved in mines and projects throughout Southern and Eastern Africa for numerous large multinational mining companies. He has a wide range of geological, geophysical and geostatistical experience. Dr Northrop is the person responsible for the estimation and reporting of the Mineral Resource.

Mr Deiss has 18 years experience in geology and geostatistics in Southern Africa, and has worked for numerous large South African and International mining companies as a geologist. Mr Deiss acting in a consulting capacity has provided geological and geostatistical services to mining companies in Southern and Eastern Africa, U.S.A. and Australia, active in a wide scope of commodities. Mr Deiss is responsible for the geological database compilation, data integrity geological, block modelling and estimation.

Dr Northrop and Mr Deiss are Competent Persons registered with the South African Council of Natural Scientists ("SACNASP") as well as with various mining and geological professional bodies and can be regarded as Qualified Persons in terms of NI43-101.

1.2 Purpose of Report

ExplorMine Consultants was commissioned to prepare a Mineral Resource estimate for the Yuty Uranium Project, Paraguay. The work involved an assessment of the following aspects:

- Survey the validity of any geological logging, sampling and radiometric data to be utilised in a Resource Estimate.
- Estimate Mineral Resources geostatistically.
- Recommendations for future work to progress.

1.3 Reliance on Information

Where ExplorMine Consultants has reviewed basic data provided by CUE and BRS, ExplorMine Consultants has performed sufficient validation and verification required, placing an appropriate level of reliance on such information. Where information is not directly verified, it is stated as such.

Details of information used to prepare this Report are as follows:

- Various electronic borehole data.
- Various electronic reports on previous audits.
- Personal communication with CUE and BRS Staff.

1.4 Site Visit

ExplorMine Consultants has not performed a site visit to the Yuty Uranium Project.

2. Disclaimer

ExplorMine Consultants' opinion with respect to this Report is effective on July 11th, 2011 and is largely based on information and data provided by CUE and BRS representatives and consultants. To its knowledge, ExplorMine Consultants has disclosed all material information.

Calculations, which occur in this report, may include a degree of rounding

which can introduce small errors; such errors are not considered significant.

3. Brief Description of Project

Yuty Uranium project is located in Paraguay, South America. A general locality map is provided below.

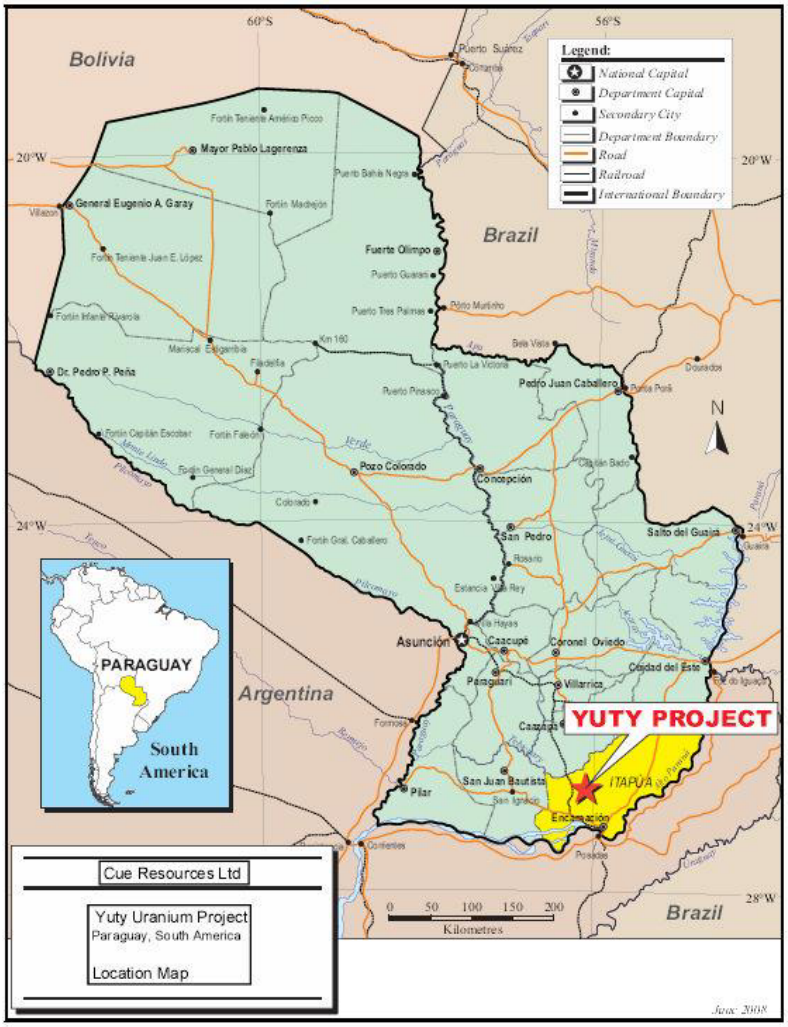


Figure 1: Yuty Uranium Project Locality.

4. Geological Modelling Methodology

A new topographic surface was generated from public domain sources as

there were a number of drill hole collar anomalies. These were noted when trying to grid the Marker and Upper Permian Carboniferous and the Lower Permian Carboniferous contacts. The collar positions were then dropped onto the new topographic surface. The cause of the elevation differences was due to a number of different historical data sources and measurements.

The borehole data was compiled in Datamine^{TM} mining and exploration software. All drill holes were decomposited to 0.1m as that is the dominant sampling width. A 0.02% equivalent uranium (eU_3O_8) cut-off was applied to all the borehole composites to define the mineralised zones (Appendix A). The thickness of the mineralised zone was interpolated utilising barren, trace and mineralized boreholes (Figures 2 and 3). The thickness of each mineralised zone was interpolated into a 3-dimensional orthogonal block model (Figures 4 and 5).

The Yuty Uranium Project comprises multiple stacked uranium mineralized zones. There are 3 main mineralized zones, an upper, an intermediate and a lower. There are however up to three thinner intermediate zones that also occur within the main mineralized zone (Figure 4 and 5). The upper mineralized zone occurs throughout the deposit whereas, the intermediate and lower mineralized zones occur sporadically throughout the area. The entire mineralized zone with its intermediate waste reaches a mean thickness of 7.1m. The upper and lower portions are the thickest mineralized zones. These zones vary from 0.1m – 15m in thickness, with a mean thickness values of 2.3m and 1.0m respectively.

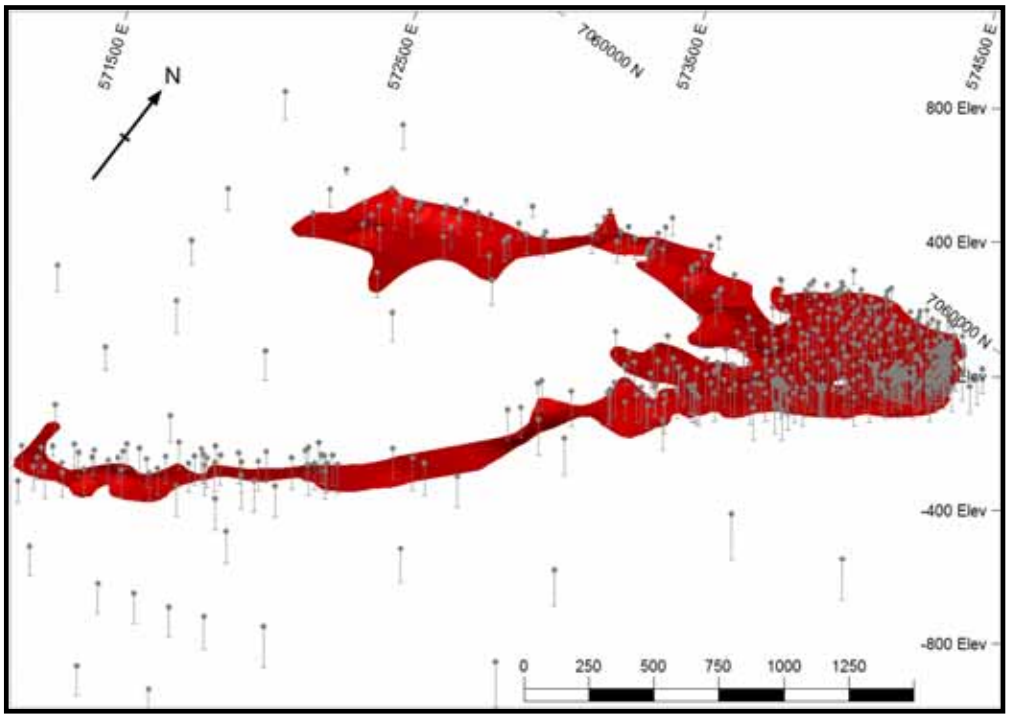


Figure 2: 3-Dimensional view of the top of the uranium mineralised zone and the extent of drill holes utilised in the geological model creation.

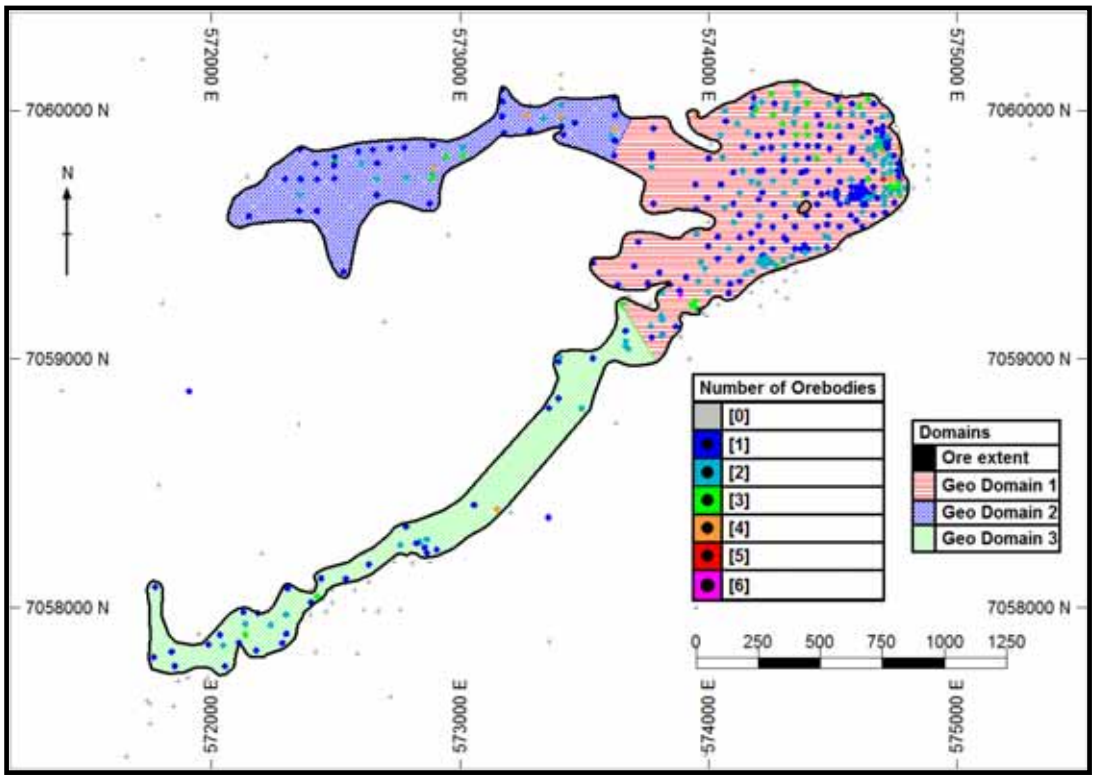


Figure 3: Locality of geostatistical Domain's 1, 2 and 3 for Yuty Uranium Project.

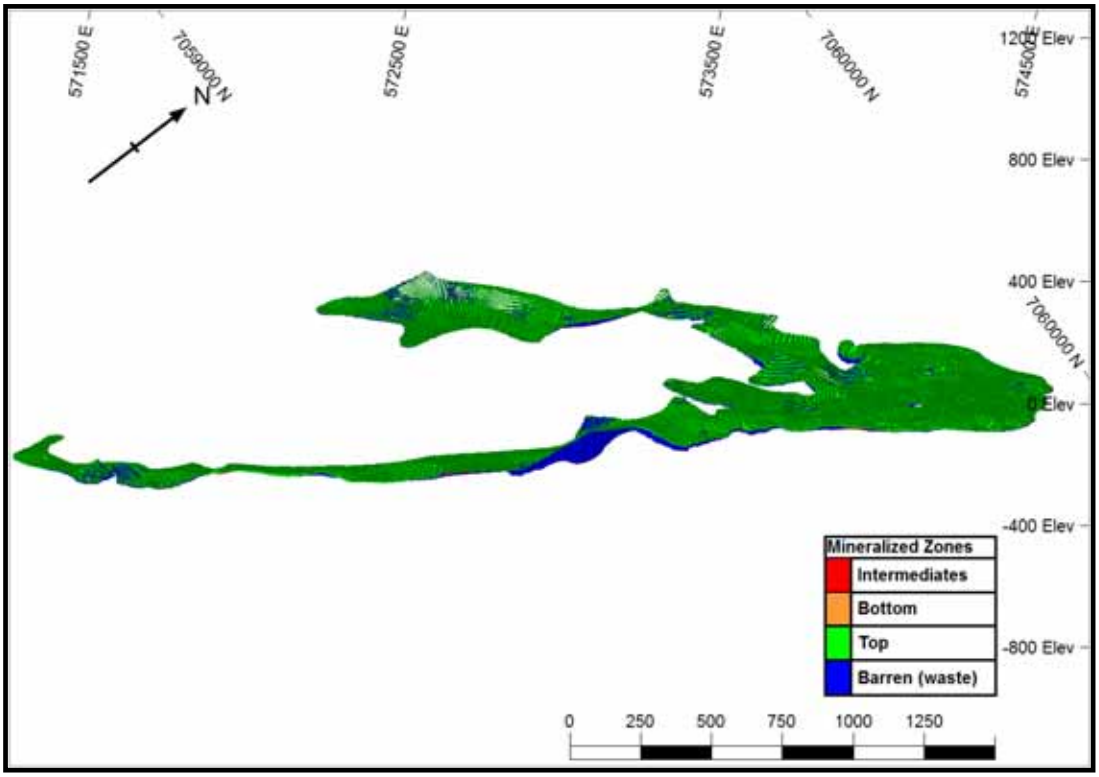


Figure 4: Datamine^{TM} thickness block model 3-dimensional view of Yuty Uranium Project.

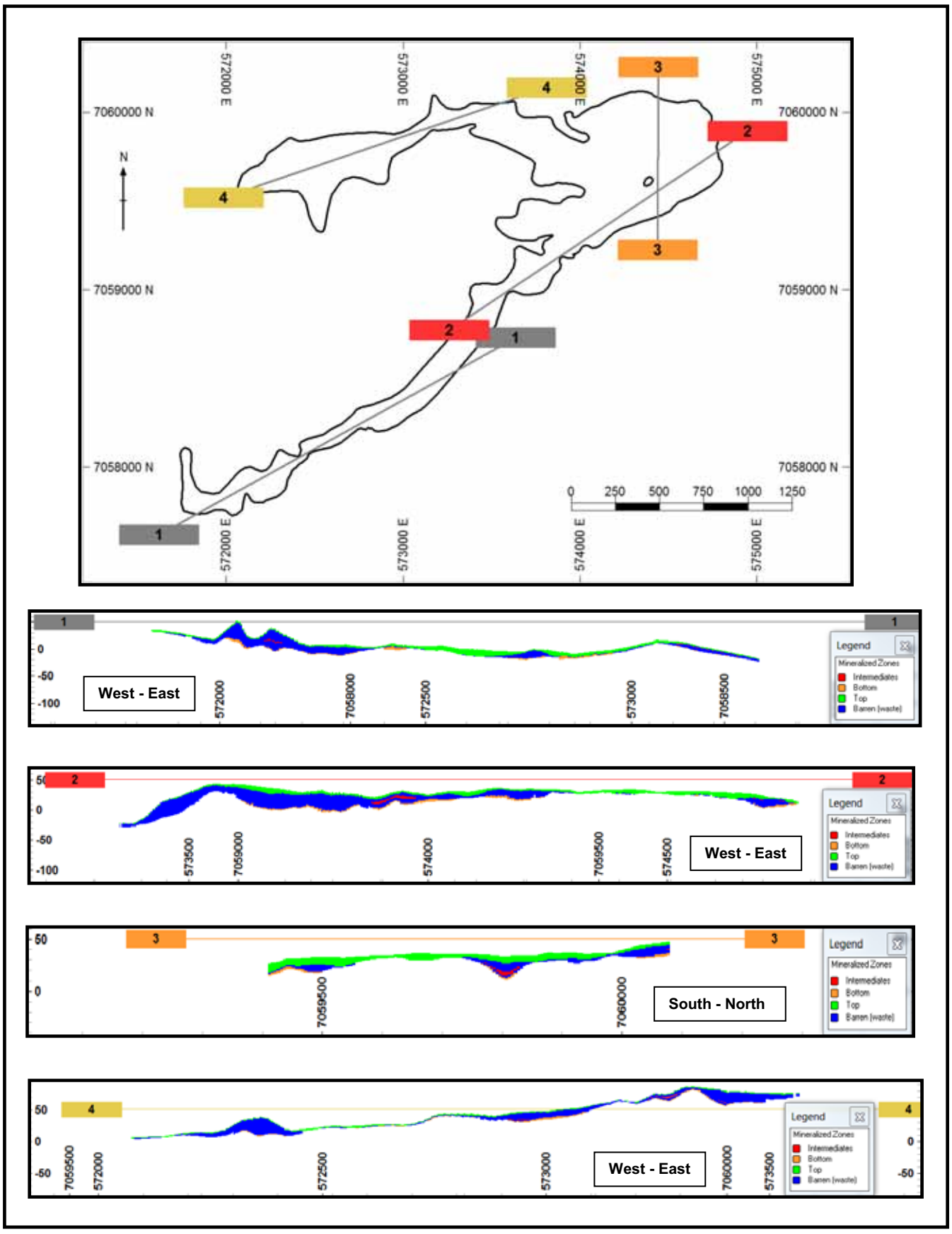


Figure 5: Sections through Datamine™ block model of Yuty Uranium Project. Vertical exaggeration of 1.5 times in the vertical applied to sections.

5. Geostatistical Methodology

In the first instance the data was demarcated in a 0.02% eU_3O_8 envelope which singled out country rock from host rock. On perusing the data it became evident that the ore body was three dimensionally distributed in space, and the upper and lower surfaces were very uneven in relation to each other, and to the XY plane (Figure 2). The spatial geostatistics would therefore have to be done in three dimensions.

Because of the uneven vertical thickness of the orebody, cumulative composites would have a random distribution and would not react to the method of geostatistics. Therefore it was decided to practice three dimensional spatial geostatistics on the grade values of the uranium, within the ore envelope.

5.1 Classical Statistics

The general shape of the orebody dictated that it should be divided up into 3 zones on the basis of shape in the XY plane and in the vertical. The so-called 'nose' of the role front to the NE becomes progressively thinner to the North East; due to a rising foot wall surface towards the base of a diabase in the hanging wall. This was designated Zone or Domain 1 (Figure 3).

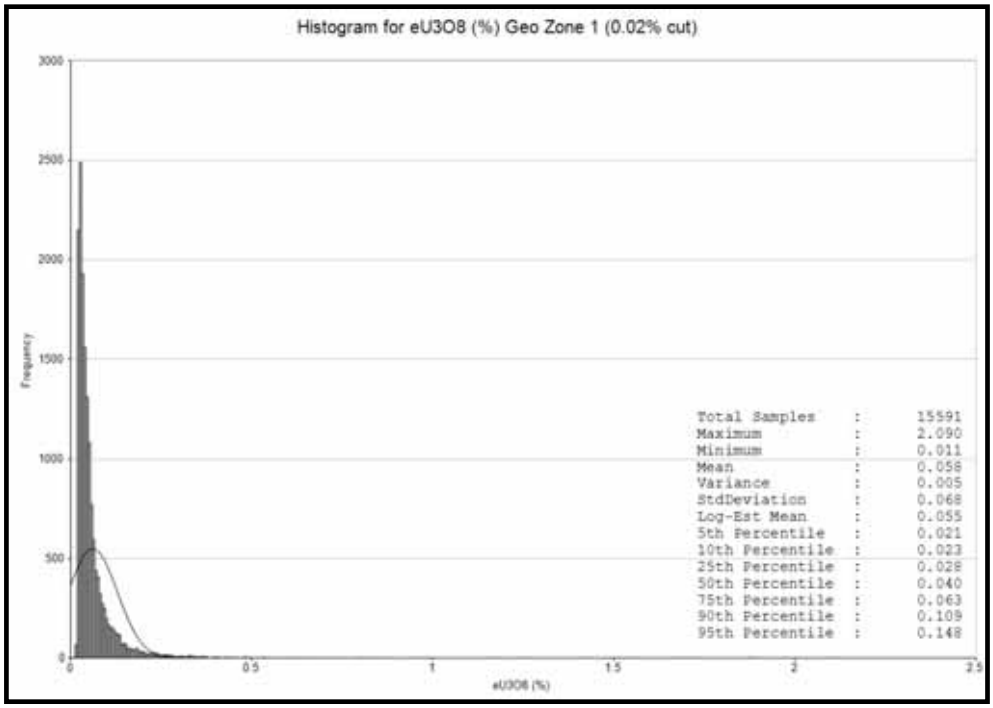


Figure 6: Histogram of geostatistical Domain 1 borehole composites.

The two so called "tails" have limited extent at right angles to their length and have similar naïve statistics (Figure 6, 7 and 8), and therefore were grouped together as the same population statistically, but evaluated separately due to their different geographical location. Classical statistics of the three

geological domains are presented below. The similarity between Zones 2 and 3 is evident, and because of this the variogram model for Zone 2 was also used for Zone 3, as it was more definitive than the one obtained from Zone 3.

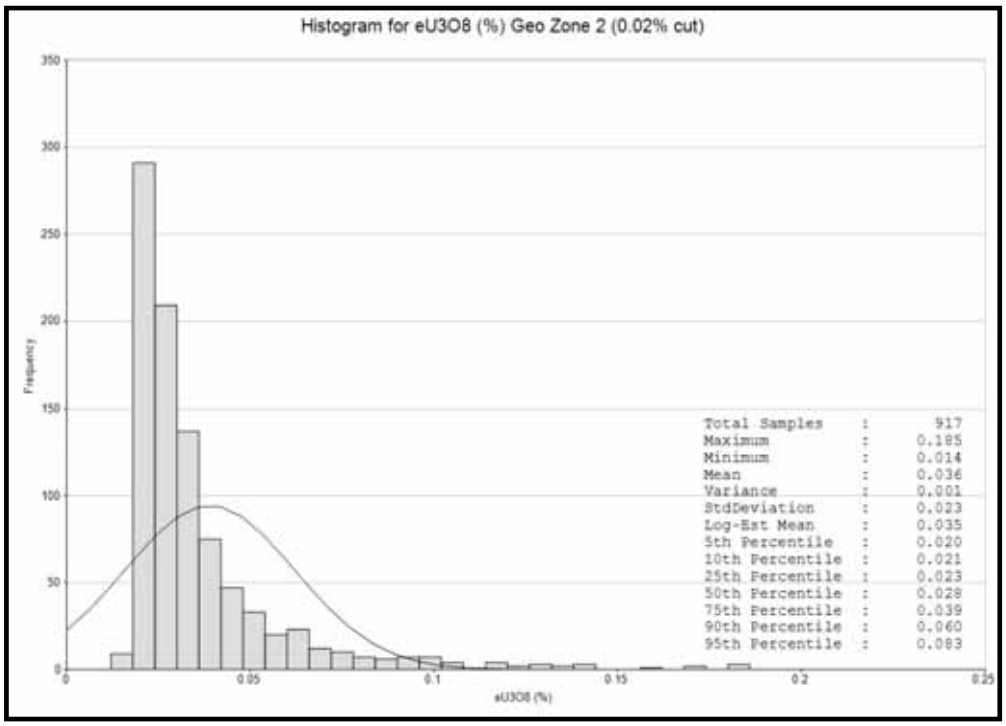


Figure 7: Histogram of geostatistical Domain 2 borehole composites.

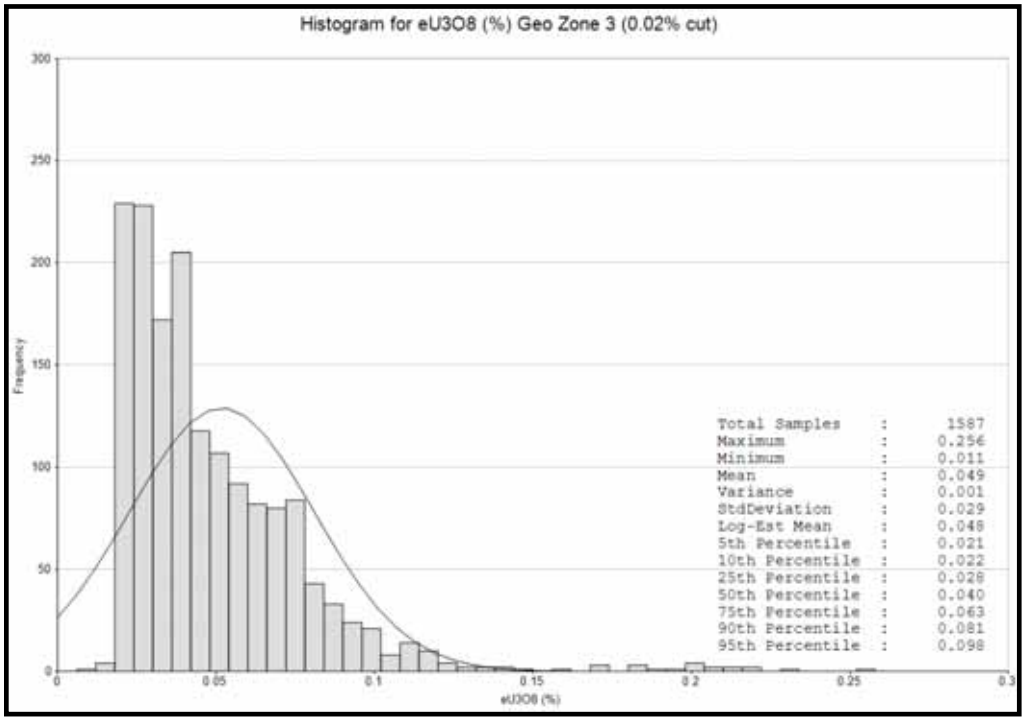


Figure 8: Histogram of geostatistical Domain 3 borehole composites.

5.1.1. Cutting of Outliers

This was necessary only in zone 3 for the purpose of variogram modeling.

5.2 Variography

Variography was performed in both the vertical direction and the XY plane. Minimum and Maximum vertical geostatistical continuity shown by the variogram models were 0.787 and 1.037 meters respectively.Therefore in order to find a layer which was of the greatest continuous extent in the XY plane, the data was divided into 0.1 meter layers, with the zero datum set to the top of each mineralized zone. It was decided that this would suit the characteristic distribution of uranium in a roll front the best. From this set of layered data the average variograms in the XY plane were analyzed for the top 20 layers (being the most continuous), until the most distinctive anisotropic structures could be discerned. The horizontal variograms are displayed graphically below in Figures 9 and 11 for the three zones. Vertical variograms were also modeled on the 0.1 meter composites to give a model in the Z direction. It is not thought that the direction would veer much from the vertical over the short distance of the database in the Z. These spherical models did not reach the sill (population variance of the data), and therefore were projected to the population variance of the XY data, so they could be combined as the third dimension in the variography. The vertical variograms are shown separately in Figures 10 and 12 below for the sake of clarity, (Z scale much larger than XY scale of horizontal variograms models). The geological explanation for them not reaching the population variance is probably due to the selection of samples above 0.02% eU_3O_8 a part of the population has been removed, the waste zones.

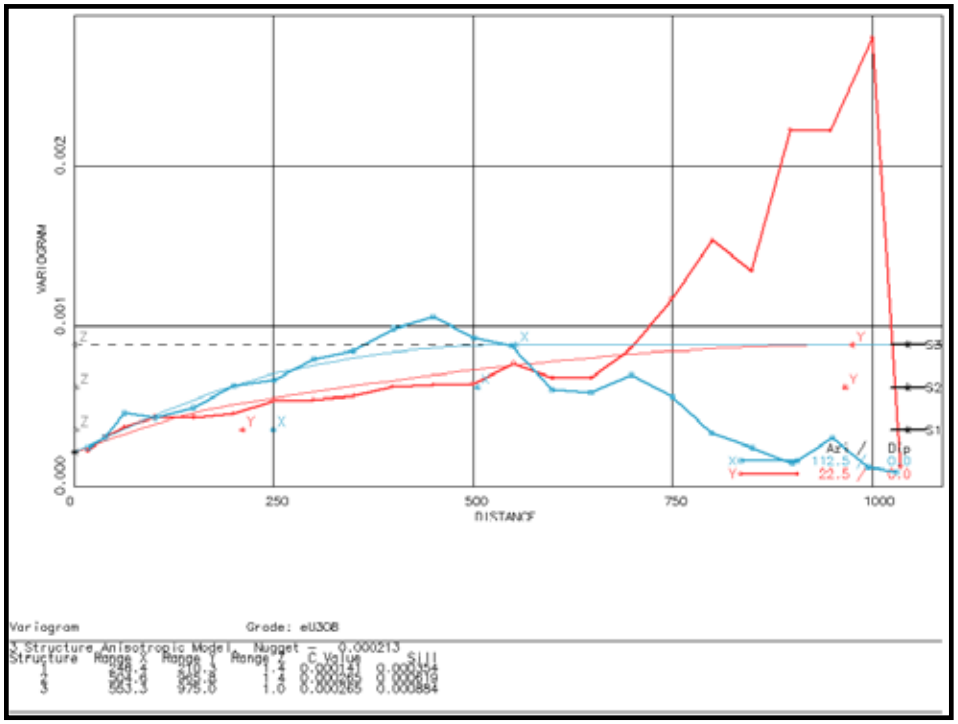


Figure 9: Modelled horizontal point semi-variogram for the eU_3O_8 (%) value for geostatistical Domain 1 drill hole composites.

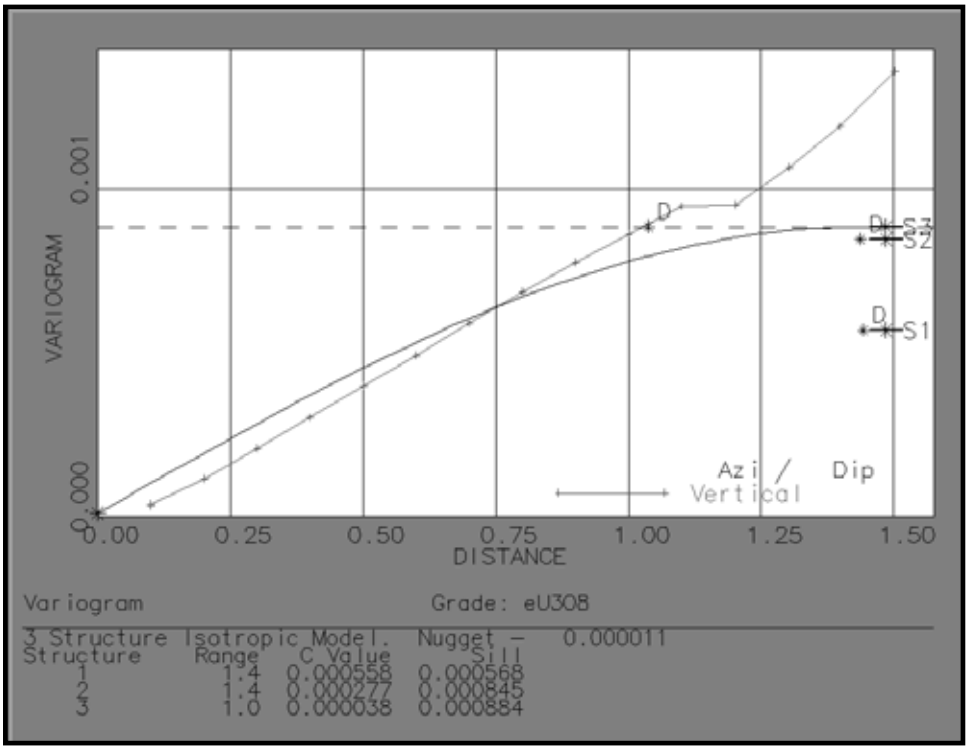


Figure 10: Modelled vertical point semi-variogram for the eU_3O_8 (%) value for geostatistical domain 1 drill hole composites.

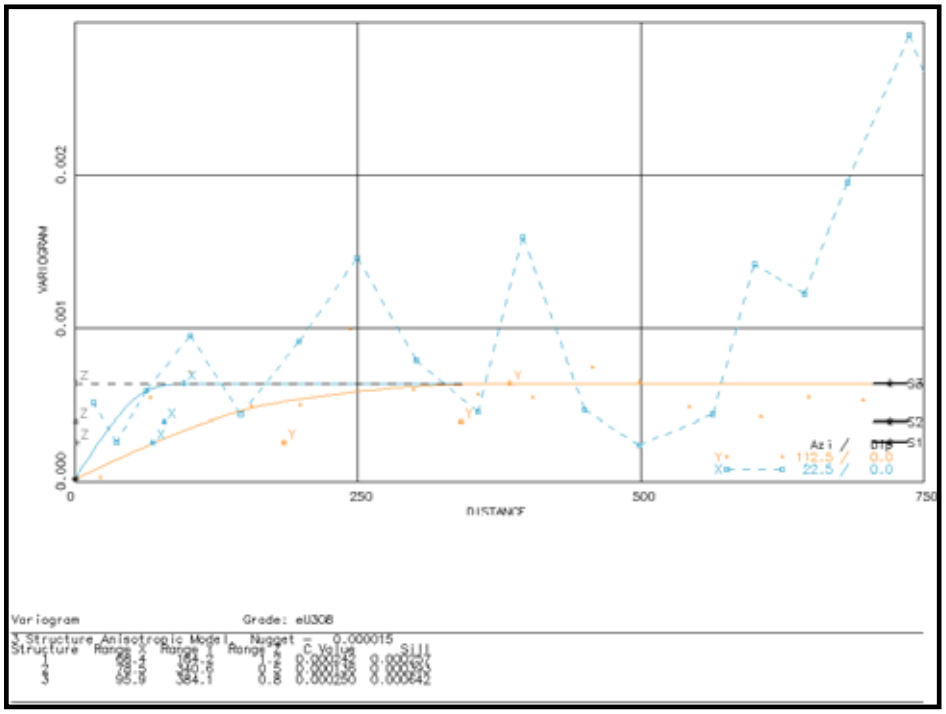


Figure 11: Modelled horizontal point semi-variogram for the eU_3O_8 (%) value for geostatistical domain 2 drill hole composites.

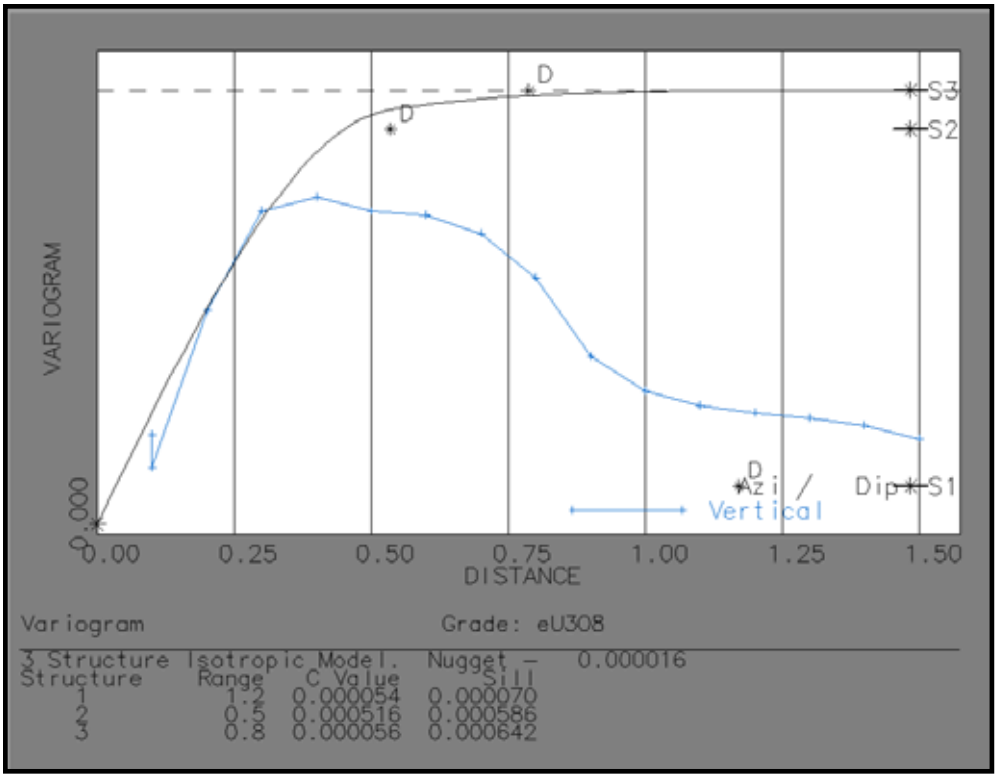


Figure 12: Modelled vertical point semi-variogram for the eU_3O_8 (%) value for geostatistical domain 2 and 3 drill hole composites.

5.3 Data Sources

The Yuty data is the result of down the hole radiometric logging which was calibrated by having samples analysed chemically for uranium. A detailed account of the QA/QC procedure is given in “Technical Report on Yuty Uranium Project, Republic of Paraguay”, Healey, 2009 on page 31.

5.4 Kriging Methodology

Optimum block sizes and the optimum number of samples to access in the estimate were determined by a number of test runs on strategically placed blocks in high density and low density areas in each zone on the upper most horizon. The optimum parameters were determined by seeing what produced the best regression slope (R) and kriging efficiency, and the lowest spread in 90% confidence limits. These three parameters actually produce excellent correlations amongst themselves. An example of the graphs is presented in Figures 13 to 14 for Domain 1. Optimum parameters used for the ordinary kriging operation are tabulated below in Table 1. An octant search was practiced to force the access of samples from different holes, to give a better representative spread of data, both vertically and horizontally. The variogram of zone 2 was also used for zone 3 as it was thought to be more definitive. However a very similar (read in) variogram was obtained in zone 3 in the 90 degree azimuth direction instead of the 112 degree azimuth direction used in zone 2 and 3, showing that classically and spatially the two limbs are nearly similar.

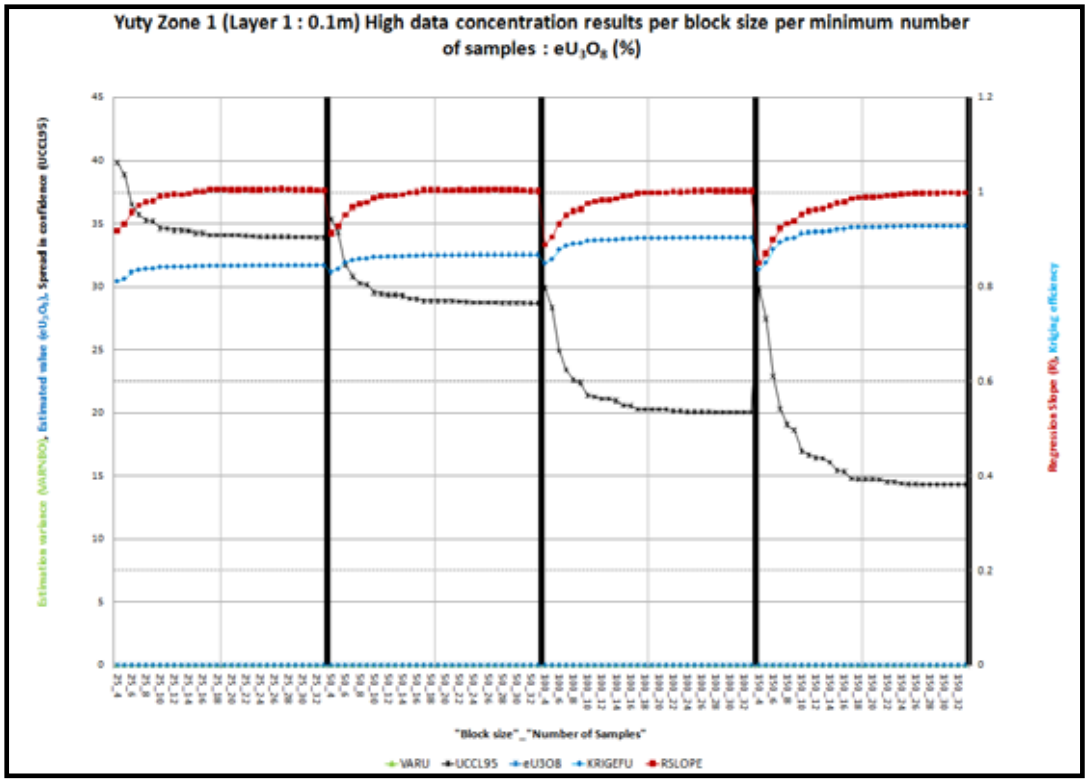


Figure 13: Example of geostatistical determination of optimum block size for Mineral Resource estimation.

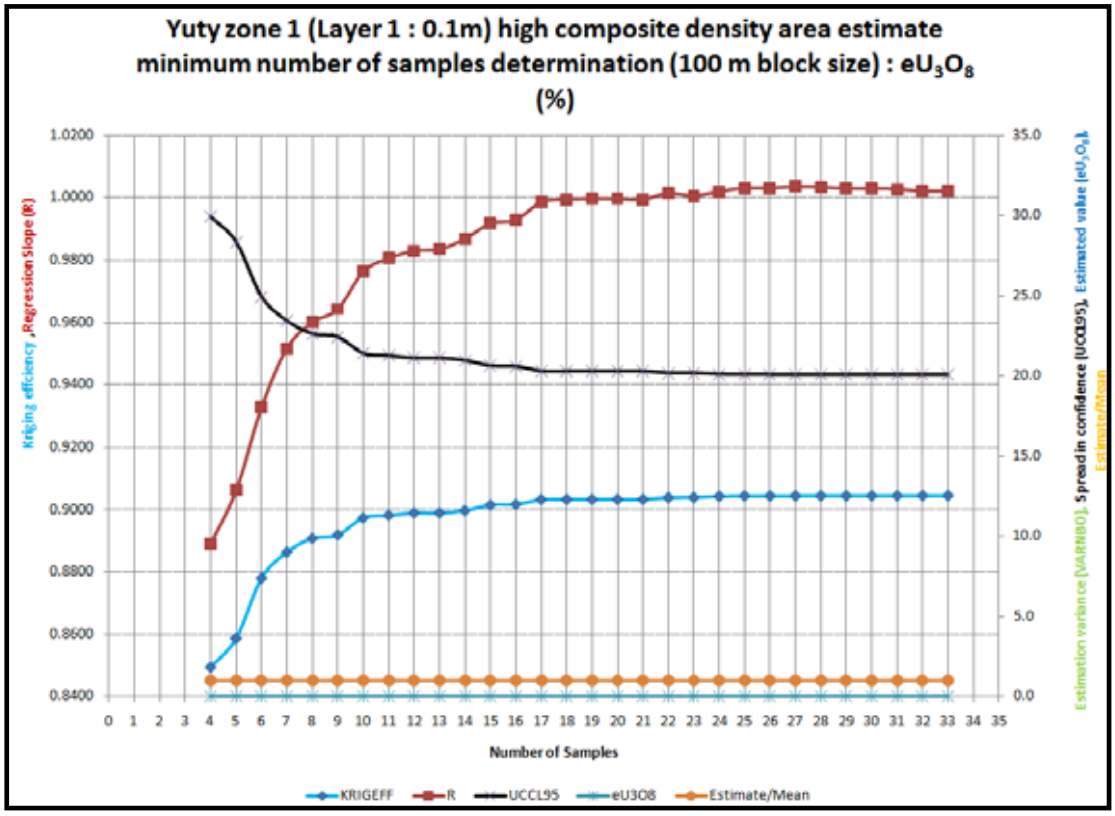


Figure 14: Example of geostatistical determination of minimum and maximum number of samples for Mineral Resource estimation.

1.1 Kriging Parameters

Table 1 gives the estimation, variogram and search parameters used for the Yuty Mineral Resource estimate. An octant search with the minimum of four octants having at least one sample in was chosen. The search distance was the range of the variograms in the 3 axes.

Search volume parameters

SREFNUM (A12)	SMETHOD (N)	SDIST1 (N)	SDIST2 (N)	SDIST3 (N)	SANGLE1 (N)	SANGLE2 (N)	SANGLE3 (N)	SAXIS1 (N)	SAXIS2 (N)	SAXIS3 (N)	OCTMETH (N)	MINOCT (N)	MINPEROC (N)	MAXPEROC (N)	MINNUM1 (N)	MAXNUM1 (N)
Zone 1	2	553.252563	975.04541	1.037	22.5	0	0	3	2	1	1	4	1	30	10	18
Zone 2 and 3	2	95.890732	384.052643	0.787	-67.5	0	180	3	2	1	1	2	1	30	7	12

Variogram parameters

VREFNUM (A12)	VANGLE1 (N)	VANGLE2 (N)	VANGLE3 (N)	VAXIS1 (N)	VAXIS2 (N)	VAXIS3 (N)	NUGGET (N)	ST1 (N)	ST1PAR1 (N)	ST1PAR2 (N)	ST1PAR3 (N)	ST1PAR4 (N)	ST2 (N)	ST2PAR1 (N)	ST2PAR2 (N)	ST2PAR3 (N)
Zone 1	22.5	-0	0	3	2	1	0.00021284	1	248.4053362	210.2994361	1.442	0.00014066	1	504.6346645	965.84745542	1.436
Zone 2 and 3	-67.5	-0	180	3	2	1	0.00001494	1	68.37778657	184.22176547	1.17	0.00024197	1	78.51413472	340.61113697	0.534

ST1PAR4 (N)	ST2 (N)	ST2PAR1 (N)	ST2PAR2 (N)	ST2PAR3 (N)	ST2PAR4 (N)	ST3 (N)	ST3PAR1 (N)	ST3PAR2 (N)	ST3PAR3 (N)	ST3PAR4 (N)
0.00014066	1	504.6346645	965.84745542	1.436	0.00026513	1	553.25253704	975.04543131	1.037	0.00026513
0.00024197	1	78.51413472	340.61113697	0.534	0.00013562	1	95.89073156	384.05262906	0.787	0.00024974

Estimation parameters

VALUE_IN (A8)	VALUE_OU (A8)	SREFNUM (N)	IMETHOD (N)	POWER (N)	ADDCON (N)	MAXITER (N)	KRIGNEGW (N)	KRIGVARS (N)
eU3O8	eU3O8	1	3	0	0	3	1	1
eU3O8	FFUNCU	1	101	0	0	3	1	1
eU3O8	LGMU	1	102	0	0	3	1	1
eU3O8	AVGU	1	2	0	0	3	1	1
eU3O8	NNU	1	1	0	0	3	1	1
eU3O8	UIPD2	2	2	2	0	3	0	1
eU3O8	UIPD3	2	2	3	0	3	0	1

Table 1: Tabulation of estimation, variogram and search parameters used in the Yuty Uranium Mineral Resource.

1.2 Mineral Resource Categorisation

The 3 dimensionally kriged block models were categorized into Measured, Indicated and Inferred on the basis of global industrial wide accepted limits at the 90% confidence interval (Figure 16). The over-riding factor was that no indicated resources was allowed beyond a search volume, equal to the range of the variograms as pairs of samples that far apart show no correlation. The spread in confidence limits at the 90th percent confidence level of the eU_3O_8 (%) kriged estimate (UCCL90), was utilized in the Resource categorization as follows:

- Zone 1 50 X 50 blocks <= 1.6% UCCL90 for Measured
- Zone 1 100 X 100 blocks <= 12.0% UCCL90 for Indicated
- Zone 2 150 x 150 blocks <= 22.0% UCCL90 for Indicated
- Zone 3 200 X 200 blocks <= 22.0% UCCL90 for Indicated

A value greater than 22% spread in confidence limits at the 90th percent confidence level is categorized as an Inferred Resource. Any 200 x 200m block with a spread in confidence greater than 50% and any 300 x 300m block with a spread in confidence greater than 55% would delegate the resource to exploration results unless some other regional geological knowledge can support an Inferred classification.

An area of measured resources was delineated in Zone 1, where spread in confidence limits was less that 1.6%. (This was equivalent to a kriging efficiency of 0.952, and a regression slope (R) of 0.992.

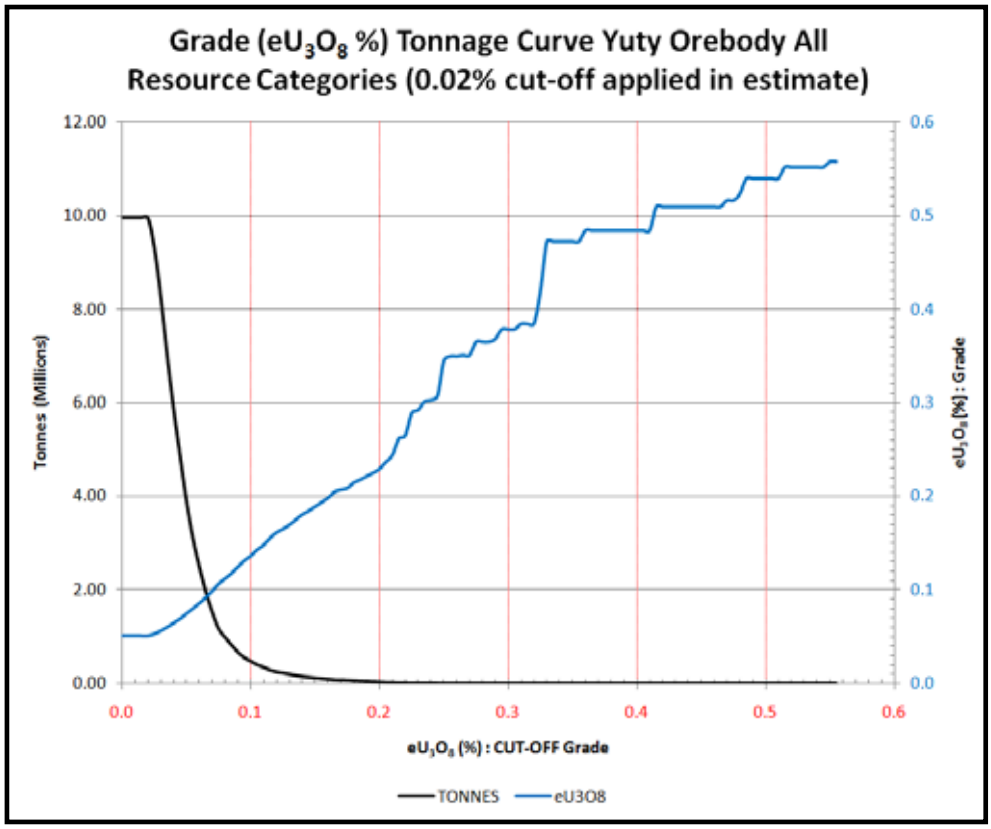


Figure 15: Grade tonnage curve for the Mineral Resource estimate, Yuty Project.

A grade-tonnage curve is given in Figure 15 and the Mineral Resource tabulation in Table 2.

Once all the different categories of block models had been combined, they were restored to real space position, and the resources tabulated as shown below:

12 July 2011	Mineral Resource Category	Tonnes (million)	Grade eU_3O_8 (%)	eU_3O_8 (metric tonnes)	eU_3O_8 (million lbs)
	Measured	2.054	0.062	1,270	2.801
	Indicated	5.783	0.048	2,773	6.113
	Measured + Indicated	**7.837**	**0.052**	**4,043**	**8.914**
	Inferred	2.139	0.047	1,010	2.226

Table 2: Mineral Resource tabulation for Yuty Uranium Project, Paraguay at a 0.02% eU_3O_8 estimate, data and aerial extent cut-off. Figures have been rounded-off to the appropriate level of accuracy.

Previous estimates were completed as two dimensional estimates utilizing the GT Contour Method resulting is an estimated Indicated Resource totaling 9.0 M tonnes at an average grade of 0.042% eU_3O_8 for a total of 8.3M lbs contained eU_3O_8 and an additional Inferred Resource totaling 1.1 M tonnes at an average grade of 0.050% eU_3O_8 for a total of 1.2M lbs contained eU_3O_8. Current estimate total values (all mineralized zones combined) of T, GT and eU_3O_8 (%) are shown in Figures 17, 18 and 19.

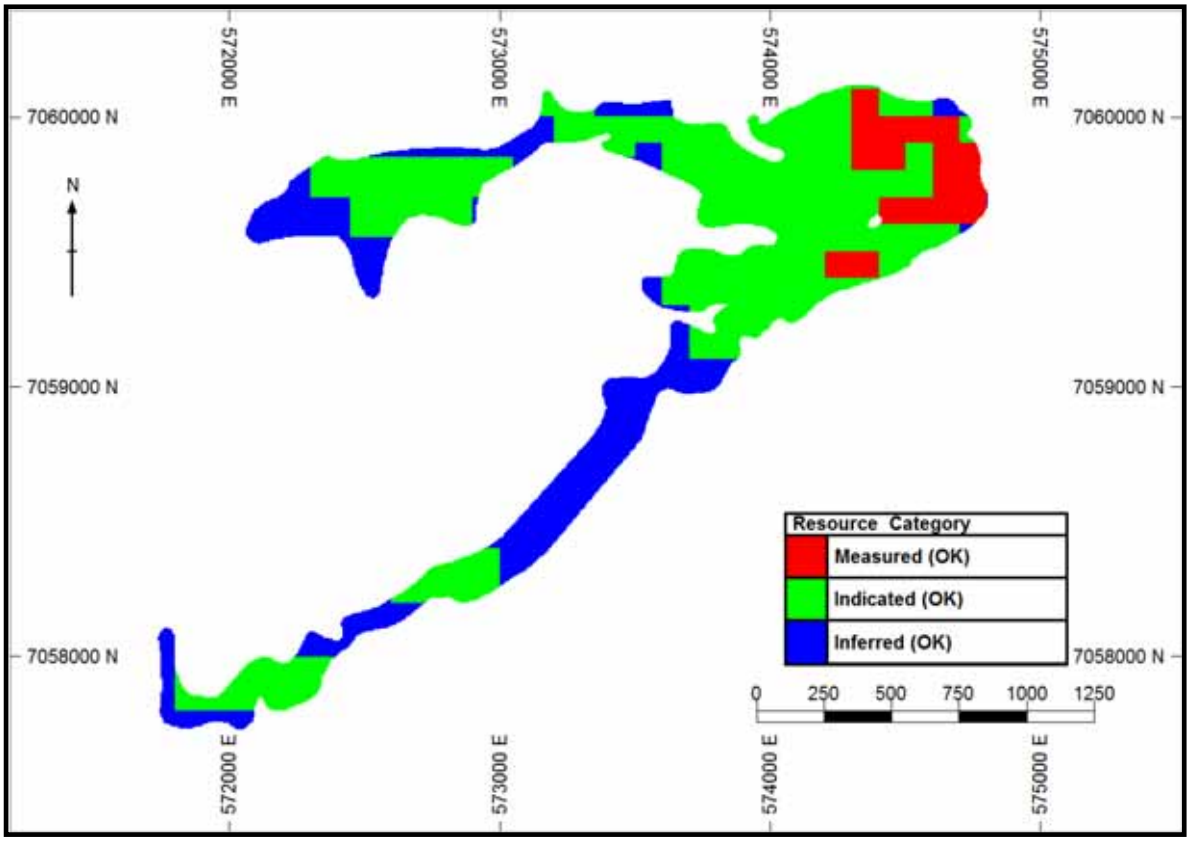


Figure 16: Yuty Uranium Project Mineral Resource estimate by Ordinary kriging – Mineral Resource Category.

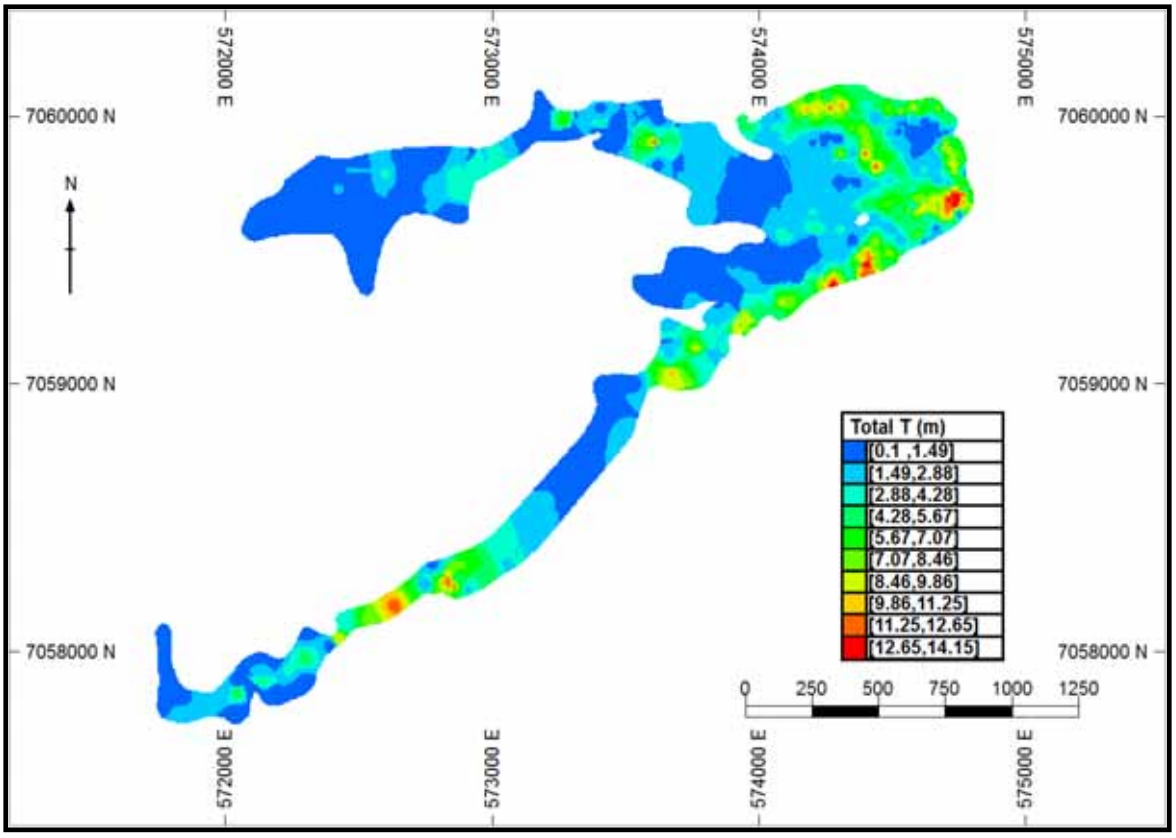


Figure 17: Yuty Uranium Mineral Resource estimate total thickness– T (%).

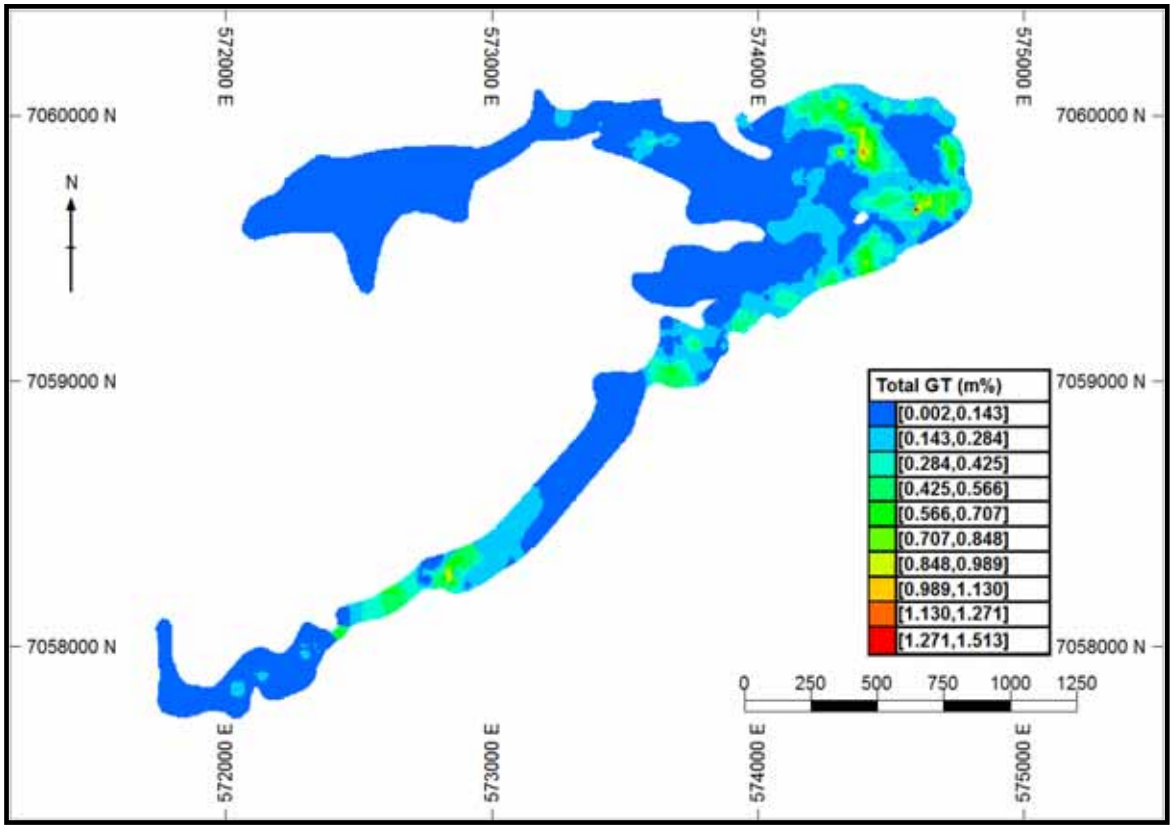


Figure 18: Yuty Uranium Mineral Resource estimate total grade thickness– GT (%m).

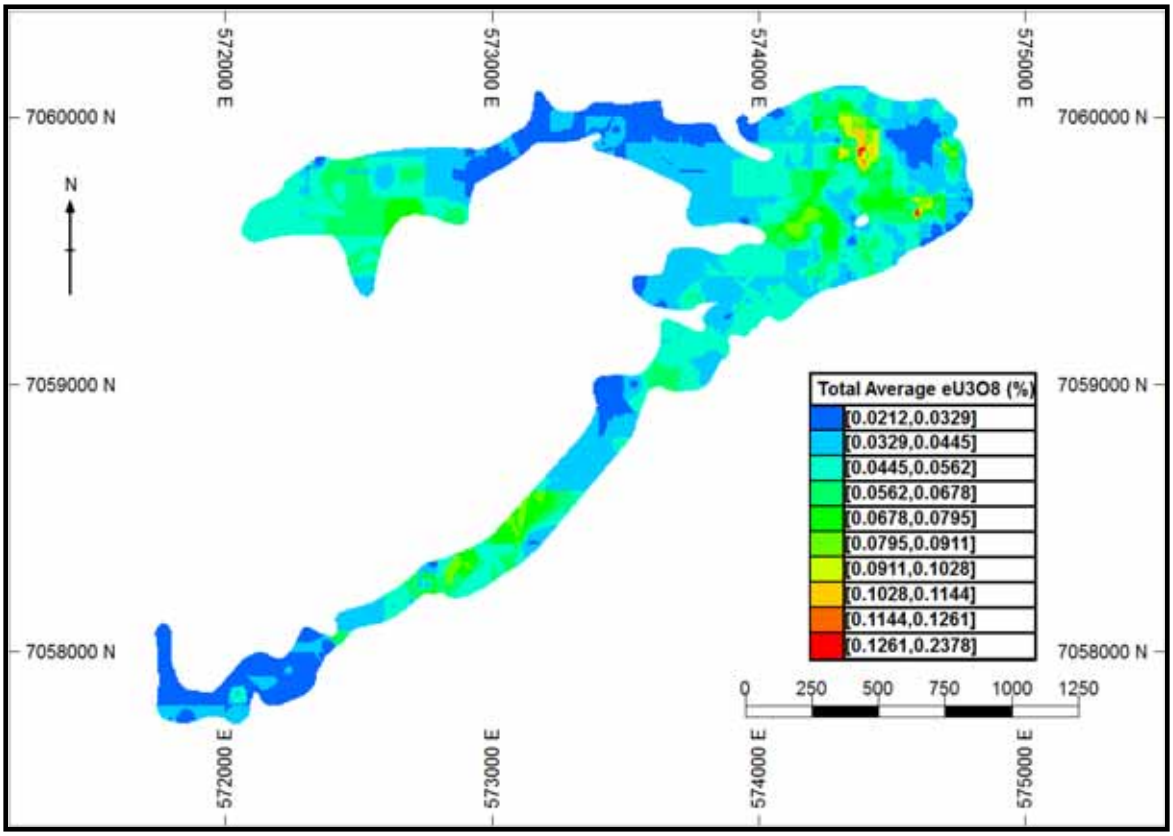


Figure 19: Yuty Uranium Mineral Resource estimate total average – eU_3O_8 (%).

1.3 Reconciliation

Reconciliation of the estimate versus actual borehole composites was completed by means of visual inspection, swath trend analysis and linear regression of the values. Reconciliation was completed in the high density sample area of the model by regressing the estimate versus the arithmetic average calculation in the same search volume (Figure 20). These regressions produced coefficients of determination (R^2) of between 0.94-0.99. A swath analysis is also presented to verify whether any overestimate or under estimate has occurred in the model (Figure 19). The swath analysis generally followed the average borehole value.

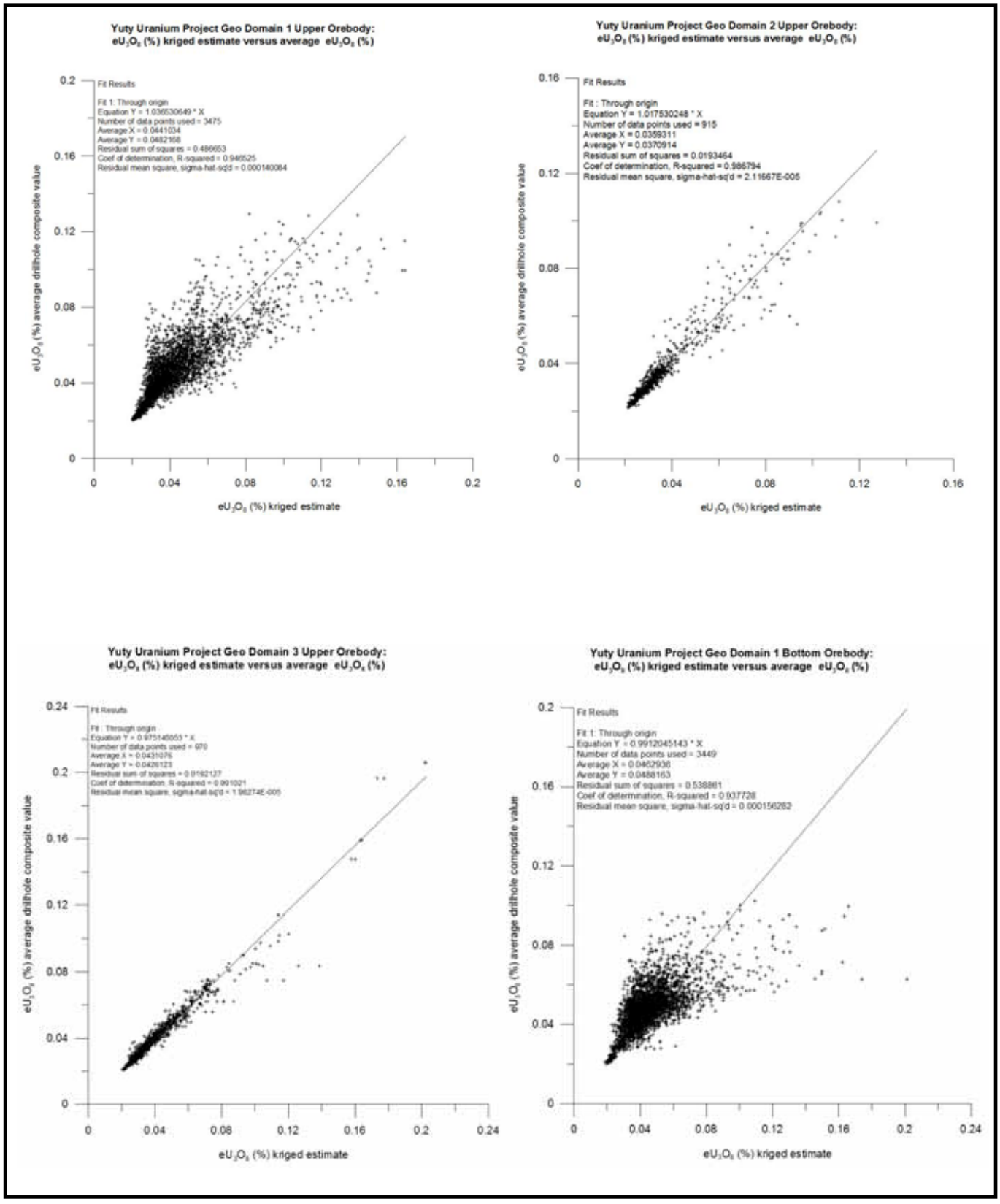


Figure 20: Examples of regressions done on kriged eU_3O_8 (%) estimates versus borehole average eU_3O_8 (%) values for Upper and Lower mineralized zones for Domains 1, 2 and 3– Yuty Uranium Project.

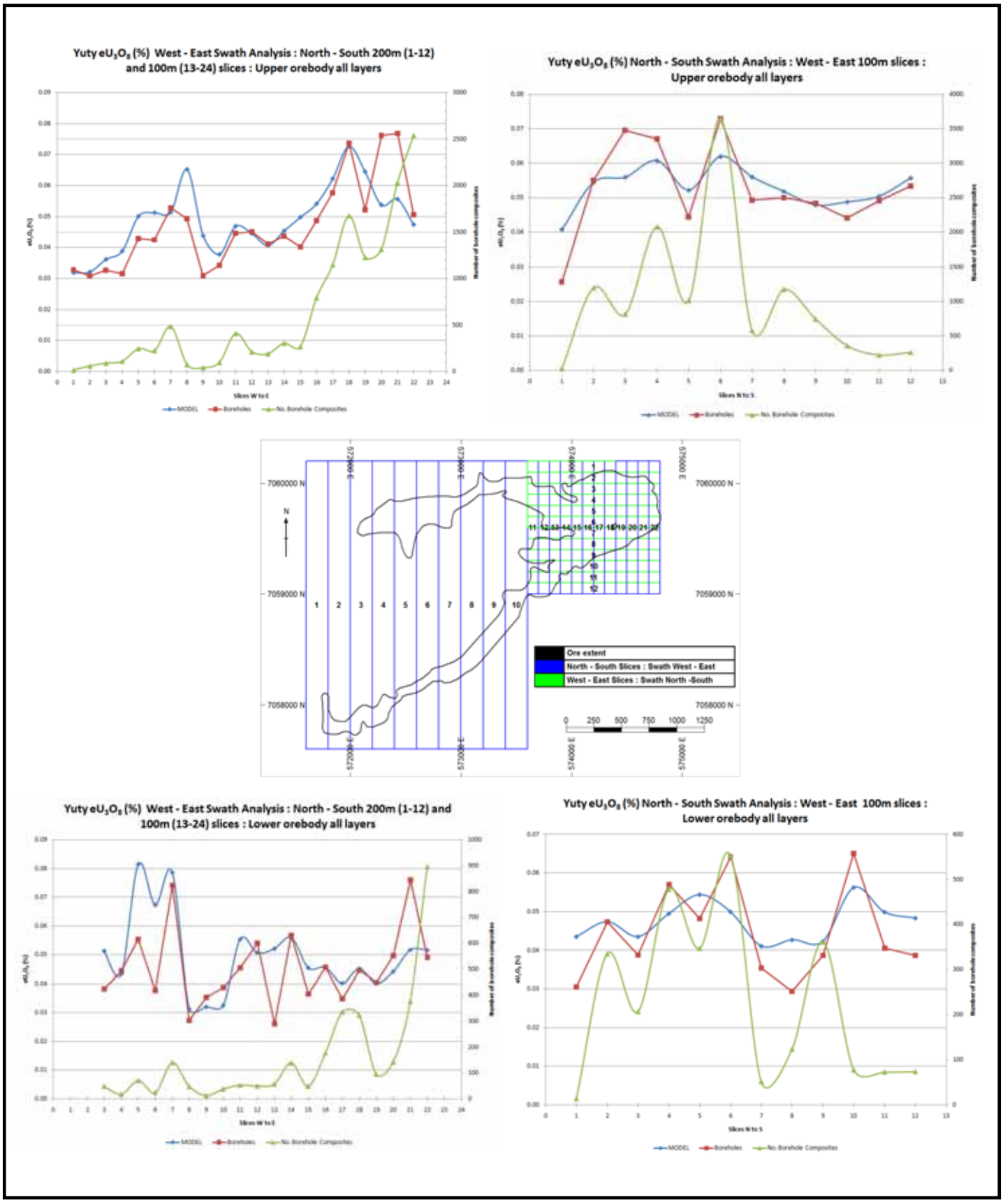


Figure 21: Swath analysis for Yuty Uranium Project.

2. Interpretation and Conclusions

The Yuty project Uranium deposit constitutes an important mineral deposit in the area. Uranium is enriched in a permeable sandstone horizon (San Miguel formation) which shows porosity values comparable to other commercial ISR operations.

A 3-dimensional model allows for a better understanding of the mineralization controls as well as facilitating the basis for a mine design. Should in-situ recovery (ISR) methods be the extraction method of choice, it can be utilised to design and test well positions and configurations.

Geostatistical methods can be applied to roll front deposits successfully if a robust geological constraint is interpreted as its basis. This approach allows for a Resource model that can be evaluated at any particular thickness (T) or grade thickness (GT), whilst remaining within a 0.02% U_3O_8 cut-off individual composite grade.

3. Recommendations

The following is recommended by ExplorMine Consultants:

- Potentially high value areas in Inferred resources can possibly be upgraded to Indicated by infill drilling on a regular grid, using the drill spacing, seen in the indicated resources delineated here. If the company requires to quote further potential measured resources, high value areas can be extended at the same drill spacing, as in the present measured areas. However, indicated resources are of sufficient confidence levels to enable feasibility studies.
- Demarcation of any geological horizons such as impermeable horizons within the sedimentary succession would be very useful to practice geological constraints on the extremities of the host rock in the model, and also for planning the pumping operations for extraction purposes.
- Permeability values should be geostatistically estimated and extrapolated to predict possible further mineralization zones and areas.
- Additional drilling is required to better define the south western tail between Easting 573000 and 574000.
- There is a marked change in elevation between the mentioned area above and the area to the northeast. This may be due to faulting and should be investigated.
- There are a number of areas on the edge of the current orebody model that have thick mineralization and show only one mineralized zone. It is expected that the mineralized zone thins and possibly bifurcates on extremities of the orebody. These limits have the possibility of being extended with further drilling.

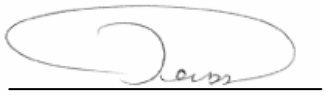
4. References

TECHNICAL REPORT ON THE YUTY URANIUM PROJECT, REPUBLIC of PARAGUAY, Chris M. Healey, P.G. (WY 3053), Healex Consulting Ltd, 2009

CUE RESOURCES ANNOUNCES INCREASE IN RESOURCES AT YUTY PROEJCT, PARAGUAY, Press Release, BRS Inc., 2011

5. Date and Signature

The effective date of this report is 11th July 2011.



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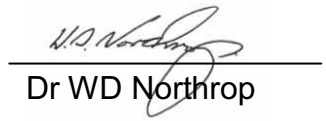

Dr WD Northrop

Appendix A

Borehole composite values per mineralized zone

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
SA 1001	86.530	98.250	1	574649.432	7059662.750	23.459	11.7201	1.2465	3999	4238	0.1064
SA 1002	88.375	93.213	1	574649.631	7059647.429	25.970	4.8377	0.3559	2855	2931	0.0736
SA 1002	96.554	99.946	2	574649.631	7059647.429	18.514	3.3914	0.5789	6275	6801	0.1707
SA 1003	87.627	92.265	1	574634.729	7059646.912	27.237	4.6381	0.3164	2655	2716	0.0682
SA 1003	96.155	99.846	2	574634.729	7059646.912	19.183	3.6906	0.3612	3717	3904	0.0979
SA 1004	86.829	91.966	1	574619.666	7059646.227	28.258	5.1369	0.4867	3649	3776	0.0947
SA 1004	96.055	99.796	2	574619.666	7059646.227	19.729	3.7405	0.5224	5258	5566	0.1397
SA 1005	86.879	98.250	1	574619.242	7059661.275	23.943	11.3710	1.3815	4578	4840	0.1215
SA 1006	89.300	96.500	1	574722.356	7059877.411	15.258	7.2000	0.1999	2178	2214	0.0278
SA 1007	89.100	96.500	1	574722.710	7059862.270	15.574	7.4000	0.2599	2744	2804	0.0351
SA 1008	88.225	98.749	1	574707.919	7059862.280	15.676	10.5232	1.9797	6988	7497	0.1881
SA 1009	86.979	90.121	1	574692.812	7059861.961	20.811	3.1420	0.1808	2249	2293	0.0576
SA 1009	95.956	98.948	2	574692.812	7059861.961	11.908	2.9923	0.2375	3078	3164	0.0794
SA 1011	90.700	96.300	1	574559.999	7059629.087	27.539	5.6000	0.3290	4457	4696	0.0588
SA 1012	89.223	93.213	1	574559.717	7059644.143	28.800	3.9898	0.2943	2853	2938	0.0738
SA 1012	94.559	99.247	2	574559.717	7059644.143	23.115	4.6881	0.3542	2932	3013	0.0756
SA 1013	89.372	94.061	1	574574.791	7059644.421	27.729	4.6881	0.3420	2838	2906	0.0730
SA 1014	88.720	100.000	1	574589.537	7059645.420	24.450	11.2800	3.3021	9249	11633	0.2927
SA 1015	89.100	99.200	1	574604.283	7059645.554	23.937	10.1000	0.9601	6934	7596	0.0951
SA 1016	104.212	106.412	1	574219.259	7059416.485	32.522	2.2000	0.1099	3856	3987	0.0500
SA 1017	105.004	107.204	1	574229.561	7059405.729	32.432	2.2000	0.1398	4850	5077	0.0635
SA 1017	123.104	123.804	2	574229.561	7059405.729	15.082	0.7000	0.0218	2432	2477	0.0311
SA 1018	106.308	109.899	1	574239.422	7059401.453	30.736	3.5910	0.1893	4059	4202	0.0527
SA 1018	123.265	124.362	2	574239.422	7059401.453	15.026	1.0970	0.0316	2238	2277	0.0288
SA 1019	106.444	115.244	1	574226.837	7059373.146	27.683	8.8000	0.5806	4995	5236	0.0660
SA 1019	121.944	123.744	2	574226.837	7059373.146	15.683	1.8000	0.0753	3261	3349	0.0418
SA 1020	106.094	109.794	1	574213.077	7059380.504	30.019	3.7000	0.2094	4349	4521	0.0566
SA 1020	121.894	123.594	2	574213.077	7059380.504	15.219	1.7000	0.0646	2959	3031	0.0380
SA 1021	104.540	107.340	1	574203.982	7059389.794	31.856	2.8000	0.1943	5292	5541	0.0694
SA 1021	121.940	123.440	2	574203.982	7059389.794	15.106	1.5000	0.0540	2811	2873	0.0360
SA 1023	86.950	98.630	1	574611.022	7059656.806	24.095	11.6800	1.8099	6988	7531	0.1550
SA 1024	88.177	91.369	1	574590.757	7059659.829	27.743	3.1919	0.1475	3566	3683	0.0462
SA 1026	88.300	91.093	1	574574.497	7059660.536	28.698	2.7928	0.1287	3558	3667	0.0461
SA 1032	85.782	94.360	1	574619.260	7059690.280	24.519	8.5781	0.5024	4470	4671	0.0586
SA 1033	85.752	93.352	1	574604.558	7059690.451	25.531	7.6000	0.5835	5765	6135	0.0768
SA 1034	87.316	95.516	1	574604.747	7059675.627	24.602	8.2000	0.7197	6438	7012	0.0878
SA 1036	85.658	93.458	1	574589.814	7059690.545	25.994	7.8000	0.4870	4748	4985	0.0624
SA 1037	85.648	93.048	1	574575.287	7059690.983	26.689	7.4000	0.4310	4450	4657	0.0582
SA 1040	87.455	89.155	1	574692.857	7059847.283	21.162	1.7000	0.0666	3058	3135	0.0392
SA 1040	95.255	96.755	31	574692.857	7059847.283	13.462	1.5000	0.0475	2481	2528	0.0317
SA 1040	97.755	99.855	2	574692.857	7059847.283	10.662	2.1000	0.0931	3442	3545	0.0443
SA 1042	86.469	87.769	1	574674.805	7059861.260	22.385	1.3000	0.0363	2191	2227	0.0279

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
SA 1042	97.869	98.869	2	574674.805	7059861.260	11.135	1.0000	0.0284	2229	2268	0.0284
SA 1045	84.107	84.907	1	574677.977	7059892.301	24.645	0.8000	0.0200	1979	2009	0.0250
SA 1045	95.107	95.707	2	574677.977	7059892.301	13.745	0.6000	0.0122	1596	1615	0.0203
SA 1046	89.701	94.501	1	574514.453	7059645.528	29.079	4.8000	0.2686	4298	4472	0.0560
SA 1047	82.696	83.296	1	574678.014	7059922.406	26.075	0.6000	0.0145	1898	1925	0.0242
SA 1048	90.052	95.052	1	574724.118	7059818.083	16.896	5.0000	0.3827	5774	6115	0.0765
SA 1048	96.052	101.352	2	574724.118	7059818.083	10.746	5.3003	0.2824	4106	4255	0.0533
SA 1049	88.275	89.975	1	574723.013	7059892.313	18.115	1.7000	0.0350	1622	1641	0.0206
SA 1049	91.475	94.575	2	574723.013	7059892.313	14.215	3.1000	0.1066	2689	2746	0.0344
SA 1050	91.700	93.700	1	574733.075	7059785.452	16.969	2.0000	0.1161	4458	4639	0.0581
SA 1050	94.500	102.500	2	574733.075	7059785.452	11.169	8.0004	0.4709	4503	4702	0.0589
SA 1051	94.722	98.522	1	574763.475	7059785.861	13.128	3.8000	0.1295	2671	2729	0.0341
SA 1052	93.373	94.973	1	574733.236	7059755.728	16.382	1.6000	0.0873	4194	4355	0.0546
SA 1052	102.173	104.573	2	574733.236	7059755.728	7.182	2.4000	0.1085	3508	3616	0.0452
SA 1053	95.285	102.285	1	574762.890	7059755.440	11.894	7.0004	0.2894	3218	3303	0.0413
SA 1054	87.182	88.482	1	574733.256	7059725.857	23.791	1.3000	0.0297	1797	1821	0.0228
SA 1054	90.382	91.782	41	574733.256	7059725.857	20.541	1.4000	0.0300	1690	1711	0.0214
SA 1054	93.382	97.282	42	574733.256	7059725.857	16.291	3.9000	0.1599	3184	3272	0.0410
SA 1054	104.382	107.182	2	574733.256	7059725.857	5.841	2.8000	0.1184	3293	3381	0.0423
SA 1055	97.245	104.345	1	574765.886	7059735.183	10.443	7.0996	0.3012	3301	3390	0.0424
SA 1056	86.807	96.307	1	574733.344	7059695.782	21.110	9.5000	0.3374	2775	2839	0.0355
SA 1056	97.107	99.007	31	574733.344	7059695.782	14.610	1.9000	0.0635	2614	2674	0.0334
SA 1056	106.807	109.007	2	574733.344	7059695.782	4.760	2.2000	0.0899	3180	3263	0.0409
SA 1057	86.341	94.641	1	574766.049	7059705.229	21.574	8.3000	0.2567	2420	2470	0.0309
SA 1057	96.541	97.341	31	574766.049	7059705.229	15.124	0.8000	0.0184	1810	1835	0.0230
SA 1057	98.541	102.241	2	574766.049	7059705.229	11.674	3.7002	0.0962	2041	2074	0.0260
SA 1058	90.043	98.543	1	574765.976	7059675.244	18.234	8.5000	0.3089	2840	2902	0.0363
SA 1058	100.043	103.743	2	574765.976	7059675.244	10.634	3.7000	0.1191	2518	2568	0.0322
SA 1060	80.321	80.921	1	574619.306	7059891.121	29.273	0.6000	0.0131	1707	1729	0.0218
SA 1060	81.321	81.921	2	574619.306	7059891.121	28.273	0.6000	0.0120	1594	1613	0.0200
SA 1061	89.467	99.167	1	574722.863	7059847.181	14.855	9.7000	0.9655	7399	7952	0.0995
SA 1062	86.843	88.343	1	574664.267	7059846.131	22.200	1.5000	0.0475	2479	2529	0.0317
SA 1062	99.543	100.142	2	574664.267	7059846.131	9.950	0.5995	0.0202	2629	2688	0.0337
SA 1063	93.117	94.031	1	574708.699	7059742.759	17.219	0.9144	0.0434	5507	5790	0.0475
SA 1063	104.851	105.766	2	574708.699	7059742.759	5.485	0.9144	0.0216	2814	2874	0.0237
SA 1064	90.599	91.899	1	574708.850	7059800.752	18.426	1.3000	0.0640	3805	3930	0.0492
SA 1064	98.499	102.699	2	574708.850	7059800.752	9.076	4.2003	0.1568	2907	2980	0.0373
SA 1065	84.572	87.872	1	574619.172	7059801.123	24.469	3.3000	0.1137	2700	2757	0.0345
SA 1066	81.143	82.843	1	574574.231	7059831.308	29.307	1.7000	0.0421	1948	1977	0.0248
SA 1067	85.518	92.018	1	574619.006	7059711.174	24.698	6.5000	0.2797	3345	3439	0.0430
SA 1068	88.710	91.510	1	574664.041	7059756.175	20.464	2.8000	0.1016	2825	2900	0.0363
SA 1069	86.239	95.939	1	574663.942	7059691.284	22.450	9.7000	0.4827	3844	3978	0.0498
SA 1070	86.697	98.397	1	574733.185	7059665.688	21.006	11.7000	0.4745	3155	3240	0.0406
SA 1070	105.197	107.297	2	574733.185	7059665.688	7.306	2.1000	0.1052	3863	3996	0.0501
SA 1071	92.616	100.816	1	574708.953	7059621.044	19.802	8.1998	0.2535	2424	2470	0.0309

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
SA 1071	107.616	109.816	2	574708.953	7059621.044	7.802	2.2000	0.0886	3138	3220	0.0403
SA 1072	89.724	100.424	1	574679.629	7059647.269	21.060	10.6998	0.9590	6629	7161	0.0896
SA 1073	90.150	100.950	1	574709.044	7059647.145	19.736	10.7996	0.4997	3586	3695	0.0463
SA 1073	110.950	111.950	2	574709.044	7059647.145	3.836	1.0000	0.0284	2243	2282	0.0284
SA 1074	87.824	95.524	1	574484.001	7059666.494	29.547	7.7000	0.5400	5299	5606	0.0701
SA 1075	87.100	91.000	1	574499.230	7059660.440	31.935	3.9000	0.2098	4132	4299	0.0538
SA 1075	91.600	93.500	2	574499.230	7059660.440	28.435	1.9000	0.1304	5245	5487	0.0686
SA 1076	87.320	94.620	1	574514.646	7059675.419	28.498	7.3000	0.6957	7068	7614	0.0953
SA 1077	92.100	98.000	1	574528.880	7059621.675	28.025	5.9000	0.4107	5305	5561	0.0696
SA 1078	87.600	92.900	1	574514.381	7059660.601	30.093	5.3000	0.3911	5566	5899	0.0738
SA 1079	112.400	113.700	1	574618.800	7059531.269	12.384	1.3000	0.0337	2039	2070	0.0259
SA 1080	115.573	116.573	1	574663.634	7059576.342	5.222	1.0000	0.0313	2454	2500	0.0313
SA 1083	104.422	112.422	1	574483.329	7059486.217	24.118	8.0000	0.2737	2678	2735	0.0342
SA 1083	119.222	120.122	2	574483.329	7059486.217	12.868	0.9000	0.0217	1917	1944	0.0241
SA 1084	99.635	108.235	1	574438.319	7059531.212	27.247	8.5996	0.4171	3758	3873	0.0485
SA 1085	93.900	95.900	1	574528.410	7059531.210	33.824	2.0000	0.0712	2778	2840	0.0356
SA 1086	98.775	100.275	1	574483.550	7059576.200	27.999	1.5004	0.0564	2925	2993	0.0376
SA 1087	91.622	95.122	1	574618.967	7059621.195	26.396	3.5000	0.1445	3216	3301	0.0413
SA 1088	96.327	100.427	1	574573.817	7059576.330	26.221	4.1003	0.1879	3549	3655	0.0458
SA 1089	97.800	98.500	1	574348.902	7059531.522	33.808	0.7000	0.0172	1952	1980	0.0246
SA 1090	108.700	111.900	1	574372.736	7059441.333	25.659	3.2000	0.0981	2401	2446	0.0307
SA 1091	106.900	114.900	1	574387.665	7059456.252	24.427	8.0000	0.3521	3425	3517	0.0440
SA 1092	108.932	123.532	1	574402.682	7059441.168	19.865	14.6000	0.5613	2995	3070	0.0384
SA 1093	112.135	118.035	1	574388.252	7059426.459	20.930	5.9000	0.2322	3065	3142	0.0394
SA 1093	119.635	123.635	2	574388.252	7059426.459	14.380	4.0000	0.1054	2074	2107	0.0264
SA 1094	108.268	114.068	1	574349.010	7059442.016	30.137	5.8000	0.2757	3681	3793	0.0475
SA 1095	113.100	122.300	1	574086.200	7059299.923	25.235	9.2000	0.3809	3220	3305	0.0414
SA 1096	109.820	115.520	1	574438.767	7059442.158	27.555	5.7000	0.3014	4083	4224	0.0529
SA 1096	117.020	118.820	2	574438.767	7059442.158	22.305	1.8000	0.0414	1805	1829	0.0230
SA 1097	111.944	118.044	1	574303.603	7059396.754	23.766	6.1000	0.2244	2869	2938	0.0368
SA 1097	124.144	125.444	2	574303.603	7059396.754	13.966	1.3000	0.0456	2741	2799	0.0351
SA 1104	110.075	118.475	1	574125.551	7059310.106	28.039	8.4000	0.2646	2469	2518	0.0315
SA 1106	116.746	121.946	1	574082.979	7059263.840	24.079	5.2000	0.1430	2166	2201	0.0275
SA 1107	110.331	111.231	1	574035.881	7059312.201	31.776	0.9000	0.0217	1918	1946	0.0241
SA 1107	126.531	128.331	2	574035.881	7059312.201	15.126	1.8000	0.0530	2308	2348	0.0294
SA 1108	99.447	102.140	1	574303.737	7059486.606	34.539	2.6932	0.1333	3807	3945	0.0495
SA 1109	84.900	90.400	1	574529.410	7059711.370	28.547	5.5000	0.3718	5137	5399	0.0676
SA 1110	90.800	92.500	1	574438.755	7059621.795	33.746	1.7000	0.0669	3066	3146	0.0394
SA 1111	106.195	106.995	1	574174.682	7059352.380	33.017	0.8000	0.0200	1956	1985	0.0250
SA 1111	120.295	123.495	2	574174.682	7059352.380	17.717	3.2000	0.1080	2633	2690	0.0338
SA 1112	121.214	121.814	1	574038.883	7059402.369	18.274	0.6000	0.0460	5792	6136	0.0767
SA 1113	99.100	99.800	1	574082.755	7059443.636	38.936	0.7000	0.0160	1806	1830	0.0229
SA 1113	120.000	120.600	2	574082.755	7059443.636	18.086	0.6000	0.0384	4887	5111	0.0640
SA 1114	112.600	113.300	1	574037.892	7059489.715	23.376	0.7000	0.0593	6391	6769	0.0847
SA 1115	95.900	96.500	1	574126.018	7059487.484	40.505	0.6000	0.0175	2290	2330	0.0292

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
SA 1116	100.156	101.056	1	574173.713	7059444.009	36.809	0.9000	0.0374	3235	3321	0.0416
SA 1117	88.400	91.300	1	574125.089	7059579.275	42.292	2.9000	0.2262	5868	6228	0.0780
SA 1118	94.700	96.400	1	574393.767	7059576.567	37.616	1.7000	0.0579	2657	2711	0.0341
SA 1119	103.100	104.300	1	574127.378	7059396.890	35.960	1.2000	0.0456	2949	3019	0.0380
SA 1120	117.673	124.773	1	573946.083	7059207.128	27.677	7.1000	0.2985	3274	3364	0.0420
SA 1120	126.673	127.473	31	573946.083	7059207.128	21.827	0.8000	0.0172	1698	1720	0.0215
SA 1120	132.573	133.573	2	573946.083	7059207.128	15.827	1.0000	0.1223	8811	9760	0.1223
SA 1121	101.700	104.100	1	573810.089	7059171.882	38.435	2.4000	0.0937	3046	3121	0.0390
SA 1121	112.700	113.600	2	573810.089	7059171.882	28.185	0.9000	0.0243	2123	2157	0.0270
SA 1122	99.545	100.545	1	574214.520	7059470.970	36.321	1.0004	0.0285	2238	2275	0.0285
SA 1123	113.400	115.000	1	573947.853	7059231.337	30.131	1.6000	0.0641	3127	3206	0.0401
SA 1123	120.300	126.000	31	573947.853	7059231.337	21.181	5.7000	0.1933	2645	2709	0.0339
SA 1123	133.800	134.900	2	573947.853	7059231.337	9.981	1.1000	0.1258	8332	9145	0.1144
SA 1124	104.249	113.149	1	573677.736	7059039.313	30.527	8.9000	0.4809	4171	4313	0.0540
SA 1124	135.949	137.549	2	573677.736	7059039.313	2.477	1.6000	0.0526	2578	2631	0.0329
SA 1125	98.200	99.000	1	573534.860	7058999.780	35.365	0.8000	0.0205	2011	2041	0.0256
SA 1126	103.800	106.900	1	574258.539	7059441.603	32.612	3.1000	0.2559	6191	6594	0.0825
SA 1127	108.413	121.213	1	572825.040	7058259.260	-8.121	12.8000	0.9281	5531	5792	0.0725
SA 1130	96.100	99.000	1	574259.359	7059530.784	35.679	2.9000	0.1943	5107	5355	0.0670
SA 1131	110.700	115.300	1	572299.913	7057971.417	7.554	4.6000	0.1296	2211	2249	0.0282
SA 1131	130.800	131.400	2	572299.913	7057971.417	-10.546	0.6000	0.0213	2793	2857	0.0355
SA 1133	102.941	109.441	1	573767.829	7059130.406	35.196	6.5000	0.4177	4931	5140	0.0643
SA 1133	148.241	151.041	2	573767.829	7059130.406	-8.254	2.8000	0.0916	2565	2618	0.0327
SA 1134	100.400	102.500	1	573812.133	7059264.552	40.752	2.1000	0.0895	3326	3414	0.0426
SA 1134	134.500	135.100	2	573812.133	7059264.552	7.402	0.6000	0.0151	1981	2010	0.0252
SA 1135	89.700	92.000	1	573756.310	7059302.322	47.985	2.3000	0.1579	5230	5488	0.0687
SA 1136	101.700	101.900	1	573403.454	7059007.491	32.657	0.2000	0.0042	1645	1665	0.0210
SA 1136	141.800	142.400	2	573403.454	7059007.491	-7.643	0.6000	0.0189	2464	2510	0.0315
SA 1137	147.700	148.400	1	573396.000	7058840.000	-26.515	0.7000	0.0171	1935	1963	0.0244
SA 1143	135.400	138.700	1	573870.379	7059128.640	3.716	3.3000	0.1412	3327	3418	0.0428
SA 1146	110.120	110.918	1	572760.775	7058252.075	-1.084	0.7980	0.0192	1891	1919	0.0241
SA 1146	125.182	125.780	2	572760.775	7058252.075	-16.046	0.5980	0.0201	2642	2700	0.0337
SA 1147	115.000	120.500	1	572868.050	7058218.510	-13.301	5.5000	0.1991	2836	2897	0.0362
SA 1151	116.600	117.300	1	572400.075	7058020.603	5.028	0.7000	0.0158	1776	1800	0.0226
SA 1153	120.300	123.400	1	572442.661	7058117.111	-3.074	3.1000	0.1226	3081	3157	0.0395
SA 1154	121.285	121.885	1	572305.760	7058076.560	-3.737	0.6000	0.0124	1617	1637	0.0207
SA 1155	129.300	129.900	1	572301.920	7057894.290	-9.949	0.6000	0.0178	2322	2364	0.0297
SA 1156	101.800	103.200	1	572035.060	7057889.820	15.216	1.4000	0.0331	1858	1883	0.0236
SA 1159	118.500	119.200	1	572129.230	7057981.760	-2.161	0.7000	0.0388	4253	4415	0.0554
SA 1163	66.581	67.781	1	571768.550	7057800.106	43.626	1.2000	0.0422	2750	2808	0.0352
SA 1169	117.000	117.100	1	572110.040	7057857.130	1.053	0.1000	0.0020	1591	1610	0.0200
SA 1171	106.300	109.100	1	572238.791	7057929.485	9.764	2.8000	0.0756	2121	2155	0.0270
SA 1171	126.200	126.800	2	572238.791	7057929.485	-9.036	0.6000	0.0271	3509	3619	0.0452
SA 1172	112.500	120.300	1	572542.920	7058115.940	3.113	7.8000	0.2680	2686	2745	0.0344
SA 1173a	118.500	130.500	1	572633.841	7058173.181	-7.753	12.0000	0.4841	3140	3222	0.0403

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
SA 1174	119.300	122.000	1	573998.795	7059269.337	23.092	2.7000	0.3162	8504	9350	0.1171
SA 1174	126.500	129.400	2	573998.795	7059269.337	15.792	2.9000	0.0760	2052	2084	0.0262
SA 1175	104.800	105.900	1	573959.561	7059309.930	36.986	1.1000	0.0343	2450	2496	0.0312
SA 1175	132.000	134.800	2	573959.561	7059309.930	8.936	2.8000	0.1316	3644	3756	0.0470
SA 1176	92.700	96.000	1	574309.186	7059571.408	34.628	3.3000	0.2432	5564	5891	0.0737
SA 1177	87.600	88.500	1	574670.499	7059815.387	21.964	0.9000	0.0226	1977	2007	0.0251
SA 1177	100.300	100.900	2	574670.499	7059815.387	9.414	0.6000	0.0134	1762	1786	0.0223
SA 1178	119.300	121.400	1	573772.566	7059085.603	20.459	2.1000	0.0503	1895	1922	0.0240
SA 1178	132.400	133.800	2	573772.566	7059085.603	7.709	1.4000	0.1164	6308	6649	0.0831
SA 1179	83.400	83.550	1	574622.063	7059981.997	25.390	0.1500	0.0030	2367	2408	0.0200
SA 1179	94.200	94.800	2	574622.063	7059981.997	14.365	0.6000	0.0129	2499	2547	0.0215
SA 1180	85.400	93.900	1	574665.171	7060025.931	18.747	8.5000	0.3413	3121	3203	0.0402
SA 1181	78.700	89.000	1	574578.456	7060025.123	24.991	10.3000	0.5962	4449	4626	0.0579
SA 1182	74.710	80.096	1	574485.111	7060024.549	35.728	5.3862	0.1780	2551	2606	0.0330
SA 1182	83.288	85.782	2	574485.111	7060024.549	28.596	2.4937	0.1368	4146	4332	0.0549
SA 1183	64.935	66.231	1	574397.319	7060031.956	47.860	1.2967	0.0517	3063	3142	0.0399
SA 1183	77.902	78.999	31	574397.319	7060031.956	34.993	1.0972	0.0386	2719	2779	0.0352
SA 1183	87.378	87.976	2	574397.319	7060031.956	25.766	0.5985	0.0208	2676	2741	0.0347
SA 1184	78.201	83.487	1	574528.231	7059800.243	31.577	5.2865	0.1963	2860	2933	0.0371
SA 1184	106.329	106.928	2	574528.231	7059800.243	5.793	0.5990	0.0149	1932	1964	0.0248
SA 1185	80.296	82.989	1	574485.312	7059758.148	32.739	2.6932	0.1253	3554	3665	0.0465
SA 1186	82.390	85.383	1	574439.030	7059711.598	33.976	2.9924	0.2561	6337	6746	0.0856
SA 1187	104.472	105.370	1	573986.707	7059361.305	36.079	0.8980	0.0201	1743	1767	0.0223
SA 1187	125.618	126.316	2	573986.707	7059361.305	15.033	0.6980	0.0346	3784	3904	0.0496
SA 1188	78.826	80.223	1	574573.577	7059935.981	31.075	1.3965	0.0325	1812	1838	0.0233
SA 1190	78.600	80.894	1	574527.990	7059893.878	32.553	2.2942	0.0561	1903	1932	0.0244
SA 1191	92.066	94.460	1	574208.778	7059571.609	37.937	2.3939	0.1524	4774	5008	0.0637
SA 1191	112.713	114.808	2	574208.778	7059571.609	17.440	2.0950	0.0414	1537	1556	0.0198
SA 1192	106.628	108.324	1	573884.449	7059274.553	35.424	1.6960	0.0753	3399	3501	0.0444
SA 1193	146.726	147.724	1	573358.000	7058803.080	-25.399	0.9980	0.0429	3302	3393	0.0430
SA 1194	85.482	91.866	1	574393.256	7059665.023	33.126	6.3838	0.3560	4165	4399	0.0558
SA 1195	92.986	93.784	1	574652.006	7059953.039	10.615	0.7979	0.0207	2001	2032	0.0260
SA 1196a	120.992	121.890	1	573809.951	7059091.381	22.059	0.8980	0.0238	2063	2097	0.0265
SA 1196a	141.340	144.432	2	573809.951	7059091.381	0.614	3.0920	0.0797	1999	2034	0.0258
SA 1197	83.188	84.285	1	574304.330	7059666.682	35.263	1.0972	0.0463	3222	3313	0.0422
SA 1197	90.370	90.968	2	574304.330	7059666.682	28.331	0.5984	0.0126	1631	1653	0.0210
SA 1198	87.577	89.971	1	574262.595	7059622.780	33.726	2.3939	0.1394	4390	4598	0.0582
SA 1199	80.395	81.692	1	574303.138	7059755.576	35.956	1.2967	0.0802	4682	4885	0.0618
SA 1200	79.498	82.191	1	574218.591	7059757.000	40.156	2.6931	0.2230	6047	6530	0.0828
SA 1201	80.323	81.619	1	574173.048	7059714.259	43.029	1.2967	0.0485	2883	2954	0.0374
SA 1201	98.576	99.175	2	574173.048	7059714.259	25.125	0.5985	0.0156	2027	2059	0.0261
SA 1202	86.679	88.475	1	574216.415	7059668.644	35.423	1.7954	0.1120	4701	4914	0.0624
SA 1203	75.408	76.006	1	574485.603	7059935.511	32.293	0.5984	0.0120	1555	1574	0.0200
SA 1203	77.702	78.700	31	574485.603	7059935.511	29.799	0.9975	0.0376	2899	2970	0.0377
SA 1203	92.265	92.864	2	574485.603	7059935.511	15.436	0.5985	0.0129	1657	1679	0.0215

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
SA 1205	81.094	82.191	1	574348.981	7059711.687	34.358	1.0972	0.0360	2533	2588	0.0328
SA 1205	82.889	83.487	2	574348.981	7059711.687	32.812	0.5985	0.0131	1706	1728	0.0218
SA 1206	85.083	86.081	1	574258.101	7059716.263	33.418	0.9975	0.0307	2367	2412	0.0308
SA 1206	100.943	101.541	2	574258.101	7059716.263	17.758	0.5980	0.0144	1852	1879	0.0240
SA 1207	77.203	78.899	1	574528.834	7060011.930	37.949	1.6957	0.0836	3765	3894	0.0493
SA 1207	80.296	83.088	31	574528.834	7060011.930	34.308	2.7929	0.0890	2465	2514	0.0319
SA 1207	85.283	89.572	2	574528.834	7060011.930	28.573	4.2891	0.1809	3221	3321	0.0422
SA 1208	76.705	78.400	1	574394.050	7059756.697	35.447	1.6957	0.1197	5298	5566	0.0706
SA 1209	57.120	66.097	1	574314.494	7060028.637	49.391	8.9772	0.8070	6646	7088	0.0899
SA 1209	70.087	72.680	2	574314.494	7060028.637	39.616	2.5934	0.1924	5562	5859	0.0742
SA 1210	55.160	56.556	1	574359.867	7060062.869	53.142	1.3965	0.0407	2258	2300	0.0292
SA 1210	62.042	67.129	2	574359.867	7060062.869	44.414	5.0871	0.4398	6359	6811	0.0864
SA 1211	72.515	74.012	1	574440.263	7059980.120	35.237	1.4962	0.0570	2924	3002	0.0381
SA 1212	44.088	44.686	1	574254.323	7060065.653	66.613	0.5985	0.0132	1722	1745	0.0220
SA 1212	45.783	46.482	31	574254.323	7060065.653	64.868	0.6982	0.0157	1747	1770	0.0224
SA 1212	47.479	50.472	2	574254.323	7060065.653	62.025	2.9924	0.0778	2014	2046	0.0260
SA 1213	62.142	64.835	1	574260.400	7059981.600	50.512	2.6931	0.1779	4972	5204	0.0660
SA 1213	66.531	68.526	31	574260.400	7059981.600	46.472	1.9949	0.0544	2102	2140	0.0273
SA 1213	74.510	75.209	2	574260.400	7059981.600	39.141	0.6982	0.0236	2614	2668	0.0339
SA 1214	52.720	62.096	1	574216.192	7060033.873	56.092	9.3761	0.3693	3024	3104	0.0394
SA 1214	62.595	63.293	2	574216.192	7060033.873	50.556	0.6982	0.0242	2672	2729	0.0347
SA 1217	54.761	57.254	1	574176.057	7059980.581	59.993	2.4936	0.0792	2462	2511	0.0318
SA 1217	66.730	67.428	2	574176.057	7059980.581	48.921	0.6982	0.0233	2571	2625	0.0333
SA 1218	51.870	55.062	1	574116.106	7059944.941	65.034	3.1918	0.1347	3245	3330	0.0422
SA 1218	67.231	68.927	2	574116.106	7059944.941	50.421	1.6957	0.1029	4572	4791	0.0607
SA 1219	67.943	69.838	1	574138.542	7059757.828	56.109	1.8951	0.1492	5810	6207	0.0787
SA 1219	87.394	88.192	2	574138.542	7059757.828	37.208	0.7980	0.0943	8404	9329	0.1182
SA 1220	77.203	83.288	1	574436.001	7059807.676	29.754	6.0845	0.5783	6993	7495	0.0950
SA 1220	92.066	96.853	31	574436.001	7059807.676	15.541	4.7878	0.1352	2185	2222	0.0282
SA 1220	98.649	99.846	2	574436.001	7059807.676	10.753	1.1969	0.0274	1783	1808	0.0229
SA 1221	75.608	81.692	1	574487.552	7059845.201	31.350	6.0845	0.2680	3376	3472	0.0440
SA 1222	88.475	89.073	1	574350.930	7059620.910	31.226	0.5985	0.0172	2217	2256	0.0287
SA 1222	109.022	109.920	2	574350.930	7059620.910	10.529	0.8980	0.0274	2362	2407	0.0305
SA 1223	83.487	85.083	1	574126.700	7059665.600	43.715	1.5959	0.0807	3859	3990	0.0506
SA 1223	111.017	111.716	2	574126.700	7059665.600	16.634	0.6990	0.0287	3148	3238	0.0410
SA 1224	73.513	85.383	1	574398.142	7059856.705	31.552	11.8698	1.4154	8221	9400	0.1192
SA 1225	68.027	74.510	1	574394.960	7059939.188	38.731	6.4835	0.6289	7116	7647	0.0970
SA 1225	88.674	89.472	31	574394.960	7059939.188	20.927	0.7980	0.0203	1980	2011	0.0255
SA 1225	96.255	96.953	2	574394.960	7059939.188	13.396	0.6982	0.0359	3900	4055	0.0515
SA 1226	66.930	68.625	1	574298.211	7059944.868	45.723	1.6956	0.0755	3407	3512	0.0445
SA 1226	82.191	82.989	31	574298.211	7059944.868	30.910	0.7980	0.1172	10246	11568	0.1469
SA 1226	87.477	88.770	2	574298.211	7059944.868	25.376	1.2928	0.0861	5016	5236	0.0666
SA 1227	74.510	81.991	1	574305.455	7059855.375	36.749	7.4809	0.5435	5420	5730	0.0726
SA 1227	88.874	90.071	2	574305.455	7059855.375	25.528	1.1969	0.1018	6251	6715	0.0851
SA 1228	63.439	65.433	1	574140.411	7059851.603	58.064	1.9949	0.0846	3254	3345	0.0424

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
SA 1229	72.316	74.012	1	574216.769	7059847.903	45.836	1.6957	0.0505	2293	2334	0.0298
SA 1230	68.725	70.121	1	574250.000	7059901.500	47.077	1.3964	0.0425	2352	2398	0.0304
SA 1231	70.816	72.212	1	574353.293	7059902.255	40.986	1.3965	0.0959	5142	5415	0.0687
SA 1231	76.501	77.399	31	574353.293	7059902.255	35.550	0.8977	0.0486	4108	4257	0.0542
SA 1231	90.366	91.164	2	574353.293	7059902.255	21.735	0.7979	0.0222	2149	2186	0.0278
SA 1232	84.884	86.480	1	574100.368	7059623.970	45.318	1.5960	0.0951	4493	4705	0.0596
SA 1233	56.753	68.623	1	574265.970	7060027.292	49.312	11.8698	0.6675	4265	4434	0.0562
SA 1234	66.828	72.913	1	574344.831	7059950.696	42.129	6.0845	1.2057	13472	15627	0.1982
SA 1234	85.980	87.376	2	574344.831	7059950.696	25.322	1.3964	0.0581	3196	3282	0.0416
SA 1235	73.214	79.198	1	574449.707	7059898.726	32.294	5.9847	0.2793	3568	3676	0.0467
SA 1236	63.254	68.740	1	574348.742	7059991.393	45.003	5.4860	0.1728	2440	2489	0.0315
SA 1236	82.405	84.101	2	574348.742	7059991.393	27.747	1.6957	0.0606	2761	2824	0.0357
SA 1237	75.408	81.493	1	574440.196	7059856.257	30.550	6.0845	0.2766	3481	3581	0.0455
SA 1238	61.244	63.239	1	574158.871	7059907.899	57.759	1.9950	0.0739	2855	2922	0.0370
SA 1238	76.405	77.004	2	574158.871	7059907.899	43.295	0.5985	0.0188	2419	2469	0.0313
SA 1239	55.858	56.656	1	574050.300	7059901.700	64.243	0.7979	0.0232	2242	2282	0.0291
SA 1239	76.904	77.802	2	574050.300	7059901.700	43.147	0.8977	0.0386	3301	3393	0.0430
SA 1240	92.764	93.861	1	574100.426	7059748.903	30.688	1.0972	0.0498	3472	3575	0.0454
SA 1241	121.590	122.189	1	574050.738	7059700.022	3.111	0.5990	0.0142	1834	1860	0.0237
SA 1242	67.628	69.024	1	573948.905	7059701.859	63.674	1.3964	0.0448	2475	2528	0.0321
SA 1243	76.505	77.503	1	573995.820	7059646.523	51.996	0.9974	0.0318	2461	2510	0.0319
SA 1244	66.630	67.229	1	574057.750	7059811.217	53.070	0.5985	0.0126	1645	1666	0.0210
SA 1244	97.352	97.951	2	574057.750	7059811.217	22.349	0.5987	0.0153	1965	1996	0.0255
SA 1245	84.722	86.517	1	574065.351	7059609.543	47.381	1.7954	0.1135	4754	4986	0.0632
SA 1245	123.024	123.822	2	574065.351	7059609.543	9.577	0.7980	0.0298	2877	2948	0.0374
SA 1246	92.864	95.557	1	574102.482	7059548.330	32.790	2.6932	0.2676	7255	7838	0.0994
SA 1246	115.905	117.401	2	574102.482	7059548.330	10.347	1.4960	0.0758	3851	3993	0.0507
SA 1248	89.572	90.470	1	573952.745	7059500.808	34.979	0.8977	0.0660	5492	5788	0.0735
SA 1248	108.125	108.723	2	573952.745	7059500.808	16.576	0.5980	0.0315	3990	4150	0.0527
SA 1249	116.204	116.803	1	573999.451	7059451.756	21.497	0.5990	0.0237	3021	3108	0.0395
SA 1251	79.600	79.800	1	573950.590	7059601.738	51.300	0.2000	0.0056	2194	2231	0.0280
SA 1252	80.300	80.890	1	573701.871	7059372.500	48.405	0.5900	0.0379	4836	5076	0.0643
SA 1253B	99.148	100.544	1	573969.695	7059389.943	41.154	1.3965	0.0392	2177	2215	0.0281
SA 1253B	120.493	121.092	2	573969.695	7059389.943	20.208	0.5990	0.0464	5748	6094	0.0775
SA 1254	74.710	76.106	1	574354.870	7059860.869	36.592	1.3964	0.0787	4280	4449	0.0564
SA 1255	78.001	84.485	1	574403.920	7059805.889	33.757	6.4835	0.5496	6260	6683	0.0848
SA 1256	78.201	79.996	1	574301.324	7059799.791	41.901	1.7954	0.1107	4658	4860	0.0617
SA 1257	79.597	81.592	1	574353.861	7059800.180	39.405	1.9949	0.0877	3352	3459	0.0439
SA 1257	83.288	84.086	2	574353.861	7059800.180	36.313	0.7980	0.0173	1683	1705	0.0216
SA 1258	74.710	76.705	1	574253.140	7059848.612	45.293	1.9950	0.1715	6376	6778	0.0860
SA 1259	89.270	89.470	1	573636.607	7059297.301	51.630	0.2000	0.0043	1669	1690	0.0215
SA 1260	70.720	71.318	1	573656.405	7059217.857	69.981	0.5985	0.0179	2307	2350	0.0298
SA 1260	73.513	74.211	31	573656.405	7059217.857	67.138	0.6982	0.0167	1858	1886	0.0239
SA 1260	85.482	86.380	2	573656.405	7059217.857	55.069	0.8977	0.1087	8515	9556	0.1211
SA 1261	95.460	95.760	1	574296.348	7059911.008	22.390	0.3000	0.0095	2436	2483	0.0317

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
SA 1262	72.316	78.799	1	574399.911	7059902.119	42.442	6.4835	1.3462	13544	16370	0.2076
SA 1262	80.794	81.592	31	574399.911	7059902.119	36.807	0.7979	0.0200	1939	1968	0.0250
SA 1262	92.664	93.761	2	574399.911	7059902.119	24.787	1.0972	0.0280	1983	2014	0.0255
SA 1263	59.848	66.830	1	574310.320	7060003.446	52.661	6.9822	0.9501	9544	10726	0.1361
SA 1263	78.001	78.600	2	574310.320	7060003.446	37.699	0.5984	0.0176	2263	2304	0.0294
SA 1265	103.736	105.033	1	573910.653	7059326.084	32.616	1.2970	0.0434	2570	2624	0.0334
SA 1266A	72.216	77.602	1	574450.893	7059942.565	31.091	5.3863	0.1453	2092	2128	0.0270
SA 1267	113.710	115.107	1	574335.727	7059411.071	17.592	1.3970	0.0471	2602	2657	0.0337
SA 1267	123.984	125.480	2	574335.727	7059411.071	7.268	1.4960	0.0534	2749	2811	0.0357
SA 1268	88.475	91.766	1	574203.455	7059641.283	33.880	3.2916	0.3803	8146	9107	0.1155
SA 1269	96.654	97.651	1	574172.273	7059504.953	37.847	0.9974	0.0644	4873	5078	0.0645
371 T003	90.000	91.500	1	574306.400	7059816.930	26.580	1.5000	0.0569	1016	1018	0.0379
371 T003	108.600	109.200	2	574306.400	7059816.930	8.430	0.6000	0.0168	759	761	0.0280
371 T016	48.900	52.900	1	573409.075	7059965.039	61.565	4.0000	0.1322	804	806	0.0331
371 T016	62.600	64.100	2	573409.075	7059965.039	49.115	1.5000	0.0795	1288	1293	0.0530
371 T020	81.100	81.400	1	572532.400	7059349.930	26.200	0.3000	0.0072	585	586	0.0240
371 T021	47.200	47.400	1	573171.634	7060036.478	59.858	0.2000	0.0042	510	510	0.0210
371 T022	120.300	121.100	1	574002.000	7059807.000	1.653	0.8000	0.0878	2651	2676	0.1097
371 T032	118.800	120.900	1	573778.353	7059625.322	2.479	2.1000	0.0615	704	706	0.0293
371 T036	119.500	120.100	1	572179.400	7057826.930	-2.080	0.6000	0.0167	707	708	0.0278
371 T037	105.600	106.200	1	571774.400	7058081.930	4.880	0.6000	0.0168	709	711	0.0280
371 T038	84.000	84.600	1	572359.400	7059722.930	18.740	0.6000	0.0352	1477	1485	0.0587
371 T039	69.700	70.300	1	573717.866	7059469.184	56.642	0.6000	0.0130	552	553	0.0217
371 T042	142.100	142.400	1	573397.456	7058986.561	-9.061	0.3000	0.0098	601	602	0.0326
371 T047	116.100	116.300	1	571910.400	7058866.930	-17.953	0.2000	0.0047	170	638	0.0235
371 T048	53.200	54.800	1	573772.613	7059772.598	67.419	1.6000	0.0366	619	620	0.0229
371 T048	100.500	101.300	2	573772.613	7059772.598	20.519	0.8000	0.0618	2073	2086	0.0773
371 T049	104.300	106.000	1	574210.400	7059407.930	34.850	1.7000	0.0815	1292	1297	0.0479
371 T049	123.300	124.400	2	574210.400	7059407.930	16.150	1.1000	0.0324	797	798	0.0295
371 T050	89.900	101.000	1	574705.765	7059659.257	19.345	11.1000	0.4611	1051	1055	0.0415
371 T050	111.700	112.300	2	574705.765	7059659.257	2.795	0.6000	0.0153	640	641	0.0255
371 T051	67.400	68.800	1	574198.167	7059897.112	52.430	1.4000	0.0415	803	805	0.0296
371 T052	50.200	50.800	1	573406.400	7060021.930	72.110	0.6000	0.0146	664	666	0.0243
371 T052	62.700	63.300	2	573406.400	7060021.930	59.610	0.6000	0.0181	812	813	0.0302
371 T055	87.300	94.100	1	574704.209	7059723.666	20.735	6.8000	0.1848	688	689	0.0272
371 T055	94.700	94.800	51	574704.209	7059723.666	16.685	0.1000	0.0021	537	538	0.0210
371 T055	94.900	95.000	52	574704.209	7059723.666	16.485	0.1000	0.0020	520	520	0.0200
371 T055	95.100	96.100	53	574704.209	7059723.666	15.835	1.0000	0.0387	976	979	0.0387
371 T055	107.600	108.200	2	574704.209	7059723.666	3.535	0.6000	0.0208	878	881	0.0347
371 T056	91.900	98.500	1	574771.353	7059661.093	17.502	6.6000	0.1687	476	477	0.0256
371 T056	102.100	103.200	31	574771.353	7059661.093	10.052	1.1000	0.0323	548	549	0.0294
371 T056	103.600	104.200	2	574771.353	7059661.093	8.802	0.6000	0.0127	392	392	0.0212
371 T057	105.000	108.600	1	574710.684	7059587.071	10.496	3.6000	0.0977	507	508	0.0271
371 T058	87.000	97.900	1	574633.836	7059661.549	23.621	10.9000	1.1156	1897	1909	0.1023
371 T059	90.500	91.800	1	574703.078	7059783.013	18.648	1.3000	0.0560	804	805	0.0431

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
371 T059	101.000	103.000	2	574703.078	7059783.013	7.798	2.0000	0.0838	778	780	0.0419
371 T061	80.200	82.500	1	574202.834	7059754.858	43.717	2.3000	0.1463	1602	1609	0.0636
371 T062	88.200	91.400	1	574573.209	7059660.852	28.451	3.2000	0.1659	963	966	0.0518
371 T062	94.300	94.600	2	574573.209	7059660.852	23.801	0.3000	0.0103	639	640	0.0343
371 T063	87.500	88.200	1	574770.279	7059721.779	23.760	0.7000	0.0146	388	388	0.0209
371 T063	89.800	91.100	61	574770.279	7059721.779	21.160	1.3000	0.0390	558	559	0.0300
371 T063	91.600	92.500	62	574770.279	7059721.779	19.560	0.9000	0.0188	388	388	0.0209
371 T063	96.900	97.500	63	574770.279	7059721.779	14.410	0.6000	0.0143	446	446	0.0238
371 T063	98.600	102.600	64	574770.279	7059721.779	11.010	4.0000	0.1317	613	614	0.0329
371 T063	103.200	103.900	2	574770.279	7059721.779	8.060	0.7000	0.0167	445	445	0.0239
371 T064	84.800	87.200	1	574201.400	7059705.930	41.430	2.4000	0.2044	1578	1589	0.0852
371 T064	103.600	103.800	2	574201.400	7059705.930	23.730	0.2000	0.0064	598	599	0.0320
371 T065	94.300	95.400	1	574201.751	7059534.929	40.423	1.1000	0.0414	701	702	0.0376
371 T067	82.400	83.900	1	573772.295	7059825.905	36.933	1.5000	0.0734	910	912	0.0489
371 T068	64.100	65.300	1	573417.400	7059899.930	52.790	1.2000	0.0372	576	577	0.0310
371 T070	21.400	21.600	1	573171.400	7060084.930	84.890	0.2000	0.0042	393	394	0.0210
371 T071	60.000	60.800	1	573170.686	7059975.512	49.654	0.8000	0.0243	564	565	0.0304
371 T072	84.800	85.500	1	574574.507	7059721.788	28.929	0.7000	0.0153	409	409	0.0219
371 T072	87.200	89.500	2	574574.507	7059721.788	25.729	2.3000	0.0832	672	673	0.0362
371 T073	94.300	98.900	1	574632.991	7059620.941	23.042	4.6000	0.2209	893	896	0.0480
371 T074	36.100	36.800	1	573462.360	7059949.380	78.910	0.7000	0.0152	402	403	0.0217
371 T075	87.800	93.500	1	574517.400	7059661.930	29.650	5.7000	0.3457	1127	1130	0.0606
371 T080	28.100	28.900	1	573268.400	7059979.930	83.340	0.8000	0.0182	421	422	0.0228
371 T080	29.300	29.700	41	573268.400	7059979.930	82.340	0.4000	0.0088	411	412	0.0220
371 T080	32.600	38.200	42	573268.400	7059979.930	76.440	5.6000	0.2152	715	717	0.0384
371 T080	43.900	44.500	2	573268.400	7059979.930	67.640	0.6000	0.0200	622	623	0.0333
371 T081	51.300	53.100	1	573623.028	7059924.775	65.289	1.8000	0.0473	491	492	0.0263
371 T081	54.100	54.200	41	573623.028	7059924.775	63.339	0.1000	0.0020	380	380	0.0200
371 T081	55.400	55.600	42	573623.028	7059924.775	61.989	0.2000	0.0041	383	383	0.0205
371 T081	56.000	56.800	2	573623.028	7059924.775	61.089	0.8000	0.0164	381	381	0.0205
371 T082	62.332	62.636	1	573624.400	7059980.930	53.486	0.3048	0.0066	614	615	0.0215
371 T083	38.400	38.600	1	573617.296	7060051.031	75.779	0.2000	0.0041	379	379	0.0205
371 T084	70.500	73.100	1	573779.400	7059926.930	47.430	2.6000	0.0725	517	518	0.0279
371 T087	86.563	88.240	1	574381.945	7059659.199	34.429	1.6764	0.0850	1435	1442	0.0507
371 T087	89.002	89.916	31	574381.945	7059659.199	32.371	0.9144	0.0221	684	685	0.0242
371 T087	90.526	90.678	2	574381.945	7059659.199	31.228	0.1524	0.0030	568	569	0.0200
371 T088	77.600	78.600	1	574373.737	7059748.261	40.873	1.0000	0.0318	589	590	0.0318
371 T089	87.700	96.000	1	574701.400	7059909.930	18.480	8.3000	0.6325	1415	1422	0.0762
371 T092	54.559	54.864	1	573280.400	7059918.930	58.128	0.3048	0.0067	623	624	0.0219
371 T093	28.499	29.413	1	573337.400	7059963.930	86.614	0.9144	0.0317	985	987	0.0346
371 T093	30.175	30.785	2	573337.400	7059963.930	85.090	0.6095	0.0227	1059	1062	0.0373
371 T095	88.400	90.300	1	573621.400	7059878.930	29.200	1.9000	0.0580	781	783	0.0305
371 T096	46.300	46.500	1	573178.400	7059908.930	68.940	0.2000	0.0062	791	793	0.0309
371 T097	97.300	97.500	1	574769.813	7059781.387	12.406	0.2000	0.0041	527	527	0.0206
371 T101	87.700	94.900	1	574455.400	7059660.930	32.740	7.2000	0.4572	1179	1185	0.0635

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
371 T102	85.300	85.900	1	572666.400	7059722.930	23.140	0.6000	0.0370	1146	1150	0.0616
371 T102	86.400	86.800	2	572666.400	7059722.930	22.140	0.4000	0.0098	455	456	0.0244
371 T103	86.300	87.000	1	572785.400	7059728.930	23.670	0.7000	0.0151	403	404	0.0216
371 T103	89.600	90.800	2	572785.400	7059728.930	20.120	1.2000	0.0556	862	865	0.0464
371 T104	59.400	61.100	1	572890.400	7059857.930	46.170	1.7000	0.0460	484	484	0.0271
371 T105	87.100	90.200	1	572889.400	7059743.930	22.200	3.1000	0.1359	816	818	0.0438
371 T105	92.700	93.400	2	572889.400	7059743.930	17.800	0.7000	0.0150	399	399	0.0214
371 T106	31.300	32.400	1	572649.400	7059841.930	73.520	1.1000	0.0827	1396	1402	0.0752
371 T107	102.300	103.100	1	572877.400	7059624.930	8.990	0.8000	0.0516	1199	1204	0.0645
371 T108	90.000	91.200	1	574768.400	7059849.930	19.560	1.2000	0.0456	708	709	0.0380
371 T108	92.400	94.200	41	574768.400	7059849.930	16.860	1.8000	0.0537	556	557	0.0299
371 T108	97.900	98.500	42	574768.400	7059849.930	11.960	0.6000	0.0144	446	446	0.0239
371 T108	99.400	101.600	2	574768.400	7059849.930	9.660	2.2000	0.0878	743	745	0.0399
371 T109	90.000	91.300	1	574703.966	7059843.528	18.743	1.3000	0.0496	682	683	0.0382
371 T109	92.300	94.300	41	574703.966	7059843.528	16.093	2.0000	0.0601	537	538	0.0301
371 T109	97.900	98.500	42	574703.966	7059843.528	11.193	0.6000	0.0150	446	446	0.0250
371 T109	99.400	101.600	2	574703.966	7059843.528	8.893	2.2000	0.0916	743	745	0.0416
371 T110	86.900	88.200	1	574643.444	7059842.200	22.576	1.3000	0.0362	521	521	0.0278
371 T110	99.900	100.100	2	574643.444	7059842.200	10.126	0.2000	0.0040	377	377	0.0202
371 T111	87.800	90.400	1	574643.088	7059782.663	21.460	2.6000	0.0679	467	467	0.0261
371 T111	104.100	104.300	2	574643.088	7059782.663	6.360	0.2000	0.0041	367	367	0.0205
371 T113	83.900	84.700	1	573621.400	7059816.930	36.100	0.8000	0.0396	884	886	0.0495
371 T114	54.000	55.000	1	572776.400	7059848.930	62.320	1.0000	0.0436	812	814	0.0436
371 T115	87.300	90.500	1	574700.967	7059973.947	19.615	3.2000	0.1068	622	623	0.0334
371 T115	95.800	97.800	2	574700.967	7059973.947	11.715	2.0000	0.0772	719	720	0.0386
371 T116	7.000	7.100	1	572355.400	7059843.930	94.770	0.1000	0.0020	375	375	0.0201
371 T117	27.100	28.900	1	572592.400	7059834.930	76.850	1.8000	0.0682	705	707	0.0379
371 T119	41.900	43.000	1	572722.400	7059847.930	66.190	1.1000	0.0497	842	844	0.0452
371 T120	82.900	84.600	1	572425.400	7059723.930	20.060	1.7000	0.1059	1157	1163	0.0623
371 T121	84.300	84.600	1	572297.400	7059722.930	18.100	0.3000	0.0073	451	451	0.0242
371 T122	85.600	86.200	1	574643.400	7060043.930	24.670	0.6000	0.0128	397	398	0.0213
371 T122	86.800	87.900	31	574643.400	7060043.930	23.220	1.1000	0.0259	439	440	0.0236
371 T122	88.800	92.400	2	574643.400	7060043.930	19.970	3.6000	0.1216	629	630	0.0338
371 T124	81.000	81.700	1	572668.400	7059786.930	27.440	0.7000	0.0544	1444	1451	0.0778
371 T125	71.600	74.900	1	572605.400	7059783.930	33.610	3.3000	0.1064	600	601	0.0322
371 T125	75.600	75.800	2	572605.400	7059783.930	31.160	0.2000	0.0052	480	481	0.0258
371 T126	89.400	90.100	1	572666.400	7059658.930	18.550	0.7000	0.0570	1510	1519	0.0814
371 T127	58.100	58.700	1	572356.400	7059660.930	45.830	0.6000	0.0234	727	729	0.0391
371 T127	91.400	92.000	2	572356.400	7059660.930	12.530	0.6000	0.0314	974	977	0.0524
371 T128	95.300	96.000	1	572352.400	7059593.930	9.040	0.7000	0.0415	1103	1107	0.0593
371 T129	96.400	97.000	1	572424.400	7059593.930	8.800	0.6000	0.0471	1456	1464	0.0785
371 T130	79.600	80.300	1	572496.400	7059725.930	23.800	0.7000	0.0469	1246	1251	0.0671
371 T131	56.800	57.700	1	572494.400	7059790.930	46.690	0.9000	0.0290	601	602	0.0323
371 T131	58.200	60.300	31	572494.400	7059790.930	44.690	2.1000	0.0438	388	389	0.0208
371 T131	64.800	65.500	2	572494.400	7059790.930	38.790	0.7000	0.0288	766	768	0.0412

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
371 T132	89.200	93.300	1	574667.184	7059659.907	24.342	4.1000	0.1737	780	782	0.0424
371 T132	97.100	100.200	2	574667.184	7059659.907	16.942	3.1000	0.2501	1477	1488	0.0807
371 T135	76.700	81.500	1	574517.400	7060043.930	34.500	4.8000	0.1845	716	717	0.0384
371 T136	90.900	94.000	1	574732.937	7059815.706	16.810	3.1000	0.1554	922	925	0.0501
371 T136	94.900	101.400	2	574732.937	7059815.706	11.110	6.5000	0.7926	2232	2250	0.1219
371 T137	91.100	91.300	1	574791.259	7059688.824	20.966	0.2000	0.0043	397	398	0.0216
371 T137	92.200	96.800	2	574791.259	7059688.824	17.666	4.6000	0.1210	485	486	0.0263
371 T139	96.700	104.100	1	574767.228	7059756.739	10.253	7.4000	0.2413	601	602	0.0326
371 T140	62.600	63.400	1	574358.058	7060070.826	46.872	0.8000	0.0212	489	490	0.0265
371 T140	64.100	68.100	2	574358.058	7060070.826	43.772	4.0000	0.1004	462	463	0.0251
371 T141	72.500	74.000	1	574189.821	7059825.736	48.308	1.5000	0.0435	540	541	0.0290
371 T141	89.100	89.400	2	574189.821	7059825.736	32.308	0.3000	0.0087	541	542	0.0290
371 T143	49.500	60.600	1	574184.400	7060024.930	60.860	11.1000	0.5033	835	837	0.0453
371 T143	63.000	63.300	2	574184.400	7060024.930	52.760	0.3000	0.0078	479	479	0.0260
371 T145	63.200	64.300	1	572418.400	7059784.930	39.220	1.1000	0.0507	858	860	0.0461
371 T146	72.500	73.100	1	573014.400	7059816.930	42.140	0.6000	0.0153	474	474	0.0254
371 T146	84.400	86.300	31	573014.400	7059816.930	29.590	1.9000	0.0641	628	629	0.0337
371 T146	89.500	91.100	2	573014.400	7059816.930	24.640	1.6000	0.0354	413	413	0.0222
371 T147	110.400	119.600	1	574260.369	7059383.822	24.742	9.2000	0.3383	677	678	0.0368
371 T147	124.800	126.000	2	574260.369	7059383.822	14.342	1.2000	0.0362	555	556	0.0301
371 T148	100.800	108.800	1	574596.083	7059555.506	20.228	8.0000	0.2830	651	653	0.0354
371 T149	88.300	92.800	1	574616.775	7059660.336	26.102	4.5000	0.2634	1076	1080	0.0585
371 T149	95.300	98.800	2	574616.775	7059660.336	19.602	3.5000	0.2907	1524	1533	0.0831
371 T150	90.800	101.000	1	574707.451	7059877.720	12.601	10.2000	1.1391	2048	2060	0.1117
371 T151	92.500	93.100	1	574737.771	7059754.496	17.974	0.6000	0.0150	461	461	0.0250
371 T151	94.900	96.800	31	574737.771	7059754.496	14.924	1.9000	0.1149	1112	1116	0.0605
371 T151	102.700	105.700	2	574737.771	7059754.496	6.574	3.0000	0.2116	1296	1301	0.0705
371 T154	99.300	102.700	1	574478.400	7059538.930	31.650	3.4000	0.1917	1037	1040	0.0564
371 T155	49.700	55.100	1	574183.400	7060051.930	61.280	5.4000	0.1541	526	527	0.0285
371 T156	103.500	105.200	1	574314.400	7059477.930	28.260	1.7000	0.0734	795	796	0.0432
371 T157	55.800	60.500	1	574191.458	7060002.711	57.415	4.7000	0.2072	821	822	0.0441
371 T157	64.400	64.700	31	574191.458	7060002.711	51.015	0.3000	0.0097	603	604	0.0324
371 T157	65.500	67.100	2	574191.458	7060002.711	49.265	1.6000	0.0802	932	935	0.0501
371 T158	51.700	54.400	1	574347.891	7060101.895	58.403	2.7000	0.0694	479	479	0.0257
371 T158	60.200	60.500	31	574347.891	7060101.895	51.103	0.3000	0.0070	434	435	0.0233
371 T158	63.600	65.000	2	574347.891	7060101.895	47.153	1.4000	0.0428	569	570	0.0306
371 T159	65.600	65.800	1	572945.400	7059811.930	41.910	0.2000	0.0043	396	396	0.0215
371 T159	80.700	82.900	31	572945.400	7059811.930	25.810	2.2000	0.0537	450	450	0.0244
371 T159	84.700	85.900	2	572945.400	7059811.930	22.310	1.2000	0.0294	452	453	0.0245
371 T160	88.700	98.300	1	574695.400	7059887.930	14.498	9.6000	1.2246	2336	2354	0.1276
371 T161	64.200	66.800	1	573951.310	7059977.861	53.040	2.6000	0.0597	428	428	0.0230
371 T161	69.600	71.100	41	573951.310	7059977.861	48.190	1.5000	0.0484	600	601	0.0322
371 T161	78.900	79.500	42	573951.310	7059977.861	39.340	0.6000	0.0151	468	469	0.0251
371 T161	96.700	97.100	2	573951.310	7059977.861	21.640	0.4000	0.0092	428	428	0.0229
371 T162	54.600	55.800	1	574066.400	7059997.930	62.860	1.2000	0.0302	464	464	0.0252

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
371 T162	56.300	56.500	2	574066.400	7059997.930	61.660	0.2000	0.0041	380	380	0.0206
371 T163	103.900	104.800	1	574134.587	7059403.791	35.151	0.9000	0.0519	1061	1064	0.0577
371 T164	104.900	105.500	1	574748.555	7059627.321	8.379	0.6000	0.0125	384	384	0.0208
371 T174	85.400	85.500	1	573536.400	7059384.930	59.260	0.1000	0.0022	420	420	0.0216
371 T178	102.000	103.300	1	573845.208	7059298.584	38.988	1.3000	0.0339	506	506	0.0261
371 T182	146.000	146.100	1	573356.400	7058362.930	-32.960	0.1000	0.0021	412	412	0.0212
371 T184	141.100	141.200	1	572567.400	7057145.930	-3.140	0.1000	0.0022	422	422	0.0217
371 T188	94.100	94.700	1	572151.400	7059572.930	7.370	0.6000	0.0262	847	849	0.0437
371 T189	90.500	91.200	1	573802.743	7059345.757	45.547	0.7000	0.0242	670	671	0.0346
371 T190	109.500	110.800	1	573887.657	7059255.170	33.425	1.3000	0.0451	672	674	0.0347
371 T190	125.300	126.200	61	573887.657	7059255.170	17.825	0.9000	0.0183	394	394	0.0203
371 T190	127.700	128.300	62	573887.657	7059255.170	15.575	0.6000	0.0124	402	402	0.0207
371 T190	128.600	128.800	63	573887.657	7059255.170	14.875	0.2000	0.0041	402	403	0.0207
371 T190	131.900	132.500	64	573887.657	7059255.170	11.375	0.6000	0.0152	492	493	0.0254
371 T190	139.000	139.200	2	573887.657	7059255.170	4.475	0.2000	0.0048	470	470	0.0242
371 T192	106.700	107.100	1	574233.217	7059392.071	31.823	0.4000	0.0083	388	388	0.0208
371 T192	107.700	114.300	31	574233.217	7059392.071	27.723	6.6000	0.5335	1499	1508	0.0808
371 T192	122.700	123.500	2	574233.217	7059392.071	15.623	0.8000	0.0210	488	489	0.0262
371 T193	105.600	107.500	1	574151.400	7059340.930	36.930	1.9000	0.0641	654	656	0.0338
371 T193	123.400	127.000	2	574151.400	7059340.930	18.280	3.6000	0.1689	909	911	0.0469
371 T194	110.800	112.100	1	574276.628	7059372.430	28.097	1.3000	0.0291	418	418	0.0224
371 T194	112.700	113.400	31	574276.628	7059372.430	26.497	0.7000	0.0151	402	402	0.0216
371 T194	114.100	125.200	2	574276.628	7059372.430	19.897	11.1000	0.4367	733	734	0.0393
371 T195	115.500	118.200	1	573933.081	7059216.617	27.959	2.7000	0.1041	718	720	0.0386
371 T195	120.700	124.800	31	573933.081	7059216.617	22.059	4.1000	0.2226	1009	1013	0.0543
371 T195	128.900	130.000	2	573933.081	7059216.617	15.359	1.1000	0.0549	928	930	0.0499
371 T196	51.500	55.300	1	574070.400	7059955.930	67.570	3.8000	0.1320	673	674	0.0347
371 T197	61.100	67.400	1	574361.244	7060008.215	50.479	6.3000	0.2537	780	782	0.0403
371 T197	80.000	80.600	2	574361.244	7060008.215	34.429	0.6000	0.0220	710	711	0.0366
371 T198	77.900	79.600	1	574528.062	7059987.672	33.848	1.7000	0.0786	896	898	0.0462
371 T199	78.900	79.700	1	574520.400	7059933.930	35.400	0.8000	0.0181	422	422	0.0226
371 T199	93.400	94.000	2	574520.400	7059933.930	21.000	0.6000	0.0136	423	424	0.0227
371 T200	89.700	97.000	1	574724.400	7059883.930	14.820	7.3000	0.2439	622	623	0.0334
371 T201	95.800	96.200	1	574702.534	7059931.943	12.790	0.4000	0.0084	408	408	0.0209
371 T202	88.000	92.800	1	574686.670	7059875.067	18.580	4.8000	0.3767	1516	1524	0.0785
371 T202	94.500	94.800	31	574686.670	7059875.067	14.330	0.3000	0.0067	431	432	0.0222
371 T202	95.400	99.300	2	574686.670	7059875.067	11.630	3.9000	0.1742	865	867	0.0447
371 T203	89.400	94.400	1	574704.137	7059857.361	17.343	5.0000	0.1643	637	638	0.0329
371 T203	97.100	99.900	2	574704.137	7059857.361	10.743	2.8000	0.1955	1350	1356	0.0698
371 T204	93.500	102.100	1	574747.781	7059815.635	11.360	8.6000	0.3341	753	754	0.0388
371 T205	95.000	97.900	1	574765.572	7059765.200	14.143	2.9000	0.1090	700	701	0.0376
371 T205	99.200	103.100	2	574765.572	7059765.200	9.443	3.9000	0.2165	1032	1035	0.0555
371 T206	84.900	87.100	1	574643.374	7059723.694	26.221	2.2000	0.0585	495	496	0.0266
371 T206	87.500	91.000	31	574643.374	7059723.694	22.971	3.5000	0.1222	650	651	0.0349
371 T206	105.700	106.000	2	574643.374	7059723.694	6.371	0.3000	0.0075	467	467	0.0251

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
371 T207	87.200	96.500	1	574730.655	7059688.228	21.025	9.3000	0.3532	707	709	0.0380
371 T207	97.800	99.100	31	574730.655	7059688.228	14.425	1.3000	0.0525	752	754	0.0404
371 T207	107.100	109.200	2	574730.655	7059688.228	4.725	2.1000	0.0895	794	795	0.0426
371 T208	89.400	91.700	1	574760.835	7059688.683	21.823	2.3000	0.0573	464	465	0.0249
371 T208	92.300	95.300	31	574760.835	7059688.683	18.573	3.0000	0.0765	475	475	0.0255
371 T208	100.600	104.400	2	574760.835	7059688.683	9.873	3.8000	0.0848	416	417	0.0223
371 T209	98.800	103.200	1	574619.324	7059589.899	21.175	4.4000	0.1356	574	575	0.0308
371 T209	104.700	105.700	2	574619.324	7059589.899	16.975	1.0000	0.0353	658	659	0.0353
371 T210	100.900	106.700	1	574470.107	7059490.629	30.924	5.8000	0.4421	1416	1422	0.0762
371 T210	120.800	121.500	2	574470.107	7059490.629	13.574	0.7000	0.0177	471	472	0.0253
371 T211	112.100	117.300	1	574477.400	7059448.930	22.480	5.2000	0.1563	583	584	0.0301
371 T212	120.900	126.000	1	573958.875	7059197.790	20.515	5.1000	0.1864	708	710	0.0365
371 T212	138.400	141.100	2	573958.875	7059197.790	4.215	2.7000	0.1551	1112	1116	0.0575
371 T213	109.400	124.900	1	574387.301	7059436.265	18.705	15.5000	1.0752	1341	1347	0.0694
371 T214	106.300	109.600	1	573813.266	7059154.531	32.946	3.3000	0.1805	1058	1062	0.0547
371 T214	141.400	142.300	2	573813.266	7059154.531	-0.954	0.9000	0.0250	539	539	0.0278
371 T215	140.800	143.000	1	573813.565	7059094.568	2.335	2.2000	0.0826	699	701	0.0376
371 T216	52.000	63.700	1	574178.760	7060007.380	57.770	11.7000	0.8494	1404	1410	0.0726
371 T217	88.200	95.800	1	574633.761	7059676.526	23.104	7.6000	0.5289	1293	1298	0.0696
371 T218	100.900	102.500	1	573666.400	7059110.930	40.460	1.6000	0.0707	822	824	0.0442
371 T219	103.600	113.700	1	573666.400	7059048.930	30.960	10.1000	0.6531	1202	1206	0.0647
371 T219	138.800	139.600	2	573666.400	7059048.930	0.410	0.8000	0.0230	536	537	0.0288
371 T222	93.500	93.900	1	573149.400	7058393.930	13.070	0.4000	0.0138	669	671	0.0345
371 T222	94.300	96.400	41	573149.400	7058393.930	11.420	2.1000	0.0640	591	592	0.0305
371 T222	103.100	103.700	42	573149.400	7058393.930	3.370	0.6000	0.0189	612	613	0.0315
371 T222	103.900	104.500	2	573149.400	7058393.930	2.570	0.6000	0.0152	491	491	0.0253
371 T223	47.600	49.500	1	573490.400	7058801.930	73.270	1.9000	0.1040	1060	1063	0.0547
371 T223	163.300	163.900	2	573490.400	7058801.930	-41.780	0.6000	0.0168	542	543	0.0280
371 T226	102.600	104.600	1	573668.400	7059068.930	37.820	2.0000	0.1075	1040	1043	0.0537
371 T226	141.200	141.700	2	573668.400	7059068.930	-0.030	0.5000	0.0141	547	548	0.0282
371 T227	88.100	93.100	1	574703.945	7059872.248	18.255	5.0000	0.2365	916	918	0.0473
371 T227	96.100	98.800	2	574703.945	7059872.248	11.405	2.7000	0.1818	1303	1307	0.0673
371 T229	93.400	97.300	1	573057.400	7058412.930	13.550	3.9000	0.2727	1351	1358	0.0699
371 T231	80.800	81.400	1	574579.400	7059986.930	30.670	0.6000	0.0172	555	556	0.0286
371 T231	91.500	93.000	2	574579.400	7059986.930	19.520	1.5000	0.0520	672	674	0.0347
371 T232	82.700	84.000	1	574580.400	7059847.930	29.530	1.3000	0.0301	449	449	0.0231
371 T233	106.100	109.800	1	574226.960	7059396.427	30.563	3.7000	0.2997	1565	1573	0.0810
371 T233	124.000	125.000	2	574226.960	7059396.427	14.013	1.0000	0.0327	635	636	0.0327
371 T234	109.600	117.100	1	574246.716	7059387.618	25.837	7.5000	0.5594	1442	1448	0.0746
371 T234	123.900	124.500	2	574246.716	7059387.618	14.987	0.6000	0.0162	524	525	0.0270
371 T235	111.000	120.500	1	574268.400	7059378.154	23.762	9.5000	0.3857	787	788	0.0406
371 T235	124.100	126.500	2	574268.400	7059378.154	14.212	2.4000	0.0718	580	581	0.0299
371 T236	87.600	99.500	1	574715.819	7059688.192	19.230	11.9000	0.5030	819	821	0.0423
371 T236	109.100	110.700	2	574715.819	7059688.192	2.880	1.6000	0.0531	644	645	0.0332
371 T237	88.900	98.000	1	574745.041	7059688.346	19.252	9.1000	0.3412	727	728	0.0375

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
371 T237	99.700	101.700	31	574745.041	7059688.346	12.002	2.0000	0.0922	892	895	0.0461
371 T237	105.200	108.400	2	574745.041	7059688.346	5.902	3.2000	0.1363	825	827	0.0426
371 T239	155.600	155.800	1	572868.400	7057141.930	-23.510	0.2000	0.0057	555	555	0.0286
371 T243	114.700	116.800	1	572907.400	7058232.930	-7.430	2.1000	0.0449	415	415	0.0214
371 T246	123.900	124.600	1	572783.165	7058325.837	-20.381	0.7000	0.0151	418	418	0.0215
371 T247	128.700	128.900	1	572286.410	7057856.881	-10.599	0.2000	0.0053	511	511	0.0263
371 T248	64.600	66.000	1	574351.400	7059996.930	47.510	1.4000	0.0347	481	481	0.0248
371 T249	81.000	83.900	1	574608.400	7060014.930	28.870	2.9000	0.1107	740	741	0.0382
371 T249	87.300	89.000	31	574608.400	7060014.930	23.170	1.7000	0.0470	536	537	0.0277
371 T249	91.000	93.000	2	574608.400	7060014.930	19.320	2.0000	0.0924	895	898	0.0462
371 T250	88.600	90.500	1	574729.400	7059981.930	20.670	1.9000	0.0812	828	830	0.0427
371 T250	95.300	97.700	2	574729.400	7059981.930	13.720	2.4000	0.1053	850	852	0.0439
371 T251	105.500	107.400	1	572137.578	7057934.066	10.243	1.9000	0.0698	712	713	0.0367
371 T251	119.600	119.900	2	572137.578	7057934.066	-3.057	0.3000	0.0070	450	450	0.0232
371 T252	122.400	122.500	1	572186.400	7057976.930	-4.160	0.1000	0.0021	404	404	0.0208
371 T254	118.900	122.200	1	572867.400	7058273.930	-12.530	3.3000	0.1715	1006	1009	0.0520
371 T254	122.800	123.000	2	572867.400	7058273.930	-14.880	0.2000	0.0041	394	395	0.0203
371 T256	110.800	114.700	1	572425.400	7058044.930	10.500	3.9000	0.1475	733	735	0.0378
371 T256	115.200	115.300	31	572425.400	7058044.930	8.000	0.1000	0.0020	395	396	0.0204
371 T256	115.500	121.900	2	572425.400	7058044.930	4.550	6.4000	0.3644	1102	1106	0.0569
371 T257	108.200	120.600	1	572858.865	7058241.759	-10.521	12.4000	0.7128	1113	1116	0.0575
371 T258	74.900	76.100	1	572137.088	7057889.009	41.598	1.2000	0.0308	498	499	0.0257
371 T258	98.200	102.000	31	572137.088	7057889.009	16.998	3.8000	0.1597	814	816	0.0420
371 T258	119.500	120.100	2	572137.088	7057889.009	-2.702	0.6000	0.0249	805	807	0.0416
371 T259	63.300	65.200	1	572047.524	7057847.282	54.163	1.9000	0.0497	507	508	0.0262
371 T259	97.600	101.600	2	572047.524	7057847.282	18.813	4.0000	0.1553	752	754	0.0388
371 T260c	108.200	122.900	1	574387.780	7059440.559	20.107	14.7000	0.7794	1026	1030	0.0530
371 T261c	107.300	109.400	1	572838.229	7058263.472	-3.401	2.1000	0.1054	972	975	0.0502
371 T261c	110.800	120.900	2	572838.229	7058263.472	-10.901	10.1000	0.9505	1816	1827	0.0941
371 T262c	54.700	59.800	1	574192.201	7060003.632	58.640	5.1000	0.2061	783	785	0.0404
371 T262c	61.400	62.000	31	574192.201	7060003.632	54.190	0.6000	0.0122	393	394	0.0203
371 T262c	64.000	66.000	2	574192.201	7060003.632	50.890	2.0000	0.0705	683	685	0.0353
371 T263	99.600	101.800	1	571988.104	7057850.770	16.371	2.2000	0.0573	505	506	0.0260
371 T264	77.400	80.000	1	571852.897	7057763.094	32.721	2.6000	0.0978	729	730	0.0376
371 T265	67.300	68.400	1	571841.273	7057821.506	44.808	1.1000	0.0285	502	503	0.0259
371 T268	23.900	25.000	1	572496.130	7059814.250	79.020	1.1000	0.0515	907	910	0.0468
371 T269	69.300	70.300	1	572494.250	7059779.380	34.130	1.0000	0.0989	1908	1920	0.0989
371 T270	86.500	88.900	1	572893.920	7059765.940	22.308	2.4000	0.0910	734	736	0.0379
371 T270	89.200	89.400	41	572893.920	7059765.940	20.708	0.2000	0.0042	408	409	0.0210
371 T270	92.000	92.200	42	572893.920	7059765.940	17.908	0.2000	0.0041	398	398	0.0205
371 T270	92.800	93.100	2	572893.920	7059765.940	17.058	0.3000	0.0064	411	411	0.0212
371 T271	89.200	91.300	1	572890.000	7059728.000	20.804	2.1000	0.0667	615	616	0.0317
371 T271	91.600	91.800	31	572890.000	7059728.000	19.354	0.2000	0.0044	430	430	0.0222
371 T271	93.900	95.400	2	572890.000	7059728.000	16.404	1.5000	0.0328	424	425	0.0219
371 T272	68.200	69.400	1	573009.870	7059849.750	44.880	1.2000	0.0291	470	470	0.0242

HOLEID	FROM	TO	ORE_NUM	EASTING	NORTHING	ELEVATION	T	GT	CPS	CorrCPS	eU3O8
371 T272	76.800	79.400	2	573009.870	7059849.750	35.580	2.6000	0.0802	598	599	0.0309
371 T273	31.400	31.700	1	573405.800	7059975.810	83.500	0.3000	0.0075	484	484	0.0249
371 T273	39.900	40.200	41	573405.800	7059975.810	75.000	0.3000	0.0066	424	424	0.0218
371 T273	60.700	62.200	42	573405.800	7059975.810	53.600	1.5000	0.0751	969	972	0.0501
371 T273	68.600	69.100	2	573405.800	7059975.810	46.200	0.5000	0.0138	534	535	0.0276
371 T274	46.200	46.300	1	573408.620	7059935.280	69.350	0.1000	0.0020	396	397	0.0204
371 T275	67.900	80.400	1	573610.350	7059898.390	44.390	12.5000	0.3355	520	521	0.0268
371 T275	93.400	94.100	2	573610.350	7059898.390	24.790	0.7000	0.0256	710	711	0.0366
371 T276	94.000	95.500	1	573772.470	7059809.710	27.930	1.5000	0.0447	578	579	0.0298
371 T278	117.600	118.200	1	572053.400	7057763.930	4.610	0.6000	0.0284	915	918	0.0473

APPENDIX B

Hydrologic Testing and Properties

AQUIFER PROPERTIES AND ESTIMATED RECOVERY AND INJECTION RATES FOR THE YUTY URANIUM PROJECT

Prepared For

CUE RESOURCES LTD

BY:

HYDRO-ENGINEERING, LLC

APRIL 2011

George L. Hoffman, Hydrologist

Ryan Stokes, E.I.T.

Adam Arguello, E.I.T

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(continued)

APPENDICES

1.0 INTRODUCTION AND SUMMARY

Hydro Engineering L.L.C was hired by Cue Resources Ltd. to perform a pump test and prepare a technical report describing the aquifer properties and predicted injection and recovery rates.

The aquifer that was tested is the minerized zone in the San Miguel Formation that is part of the Upper Permian Carboniferous (UPC) of the San Antonio area on the Yuty Uranium Project Site. The Yuty Uranium Project is located 200km to the southwest of Ascunion, the capital city of Paraguay. The San Antonio area is where the majority of the exploration has been done at the Yuty Uranium Site.

A two person team was sent to Paraguay to perform a pump test at the Yuty Uranium Site in the San Antonio area. This test obtained aquifer properties, such as transmissivity, hydraulic conductivity and storage coefficient. It was conducted by pumping a single well and monitoring seven surrounding wells for a total of six days. One day of pre-pumping monitoring was conducted to obtain any barometric effects or aquifer trends. Two days of pumping of well 371T132, and nearly three days of recovery monitoring. These results show connection between the pumping well and each monitoring well, even to the farthest one at 157m. The transmissivities calculated from the aquifer test by the straight-line method ranged from 2.3 to 6.7 m^2/day with the average of 3.7 m^2/day. The storage coefficient ranged from 9.9E-5 to 6.0E-4, with the average of 2.0E-4. Table 5-1 lists the results of the pump test.

The typical maximum drawdown at a recovery well at Yuty is expected to be 80 meters (262 feet) while the maximum injection head is expected to be 58 meters (190 feet) assuming 50 percent efficiency for injection wells. Two well patterns were analyzed in Section 6 and the recovery drawdown was limiting the recovery and injection rates. Recovery rates of 29.5 L/min and 29.9 L/min and injection rates of 7.19 L/min and 14.8 L/min were obtained for these simulations.

The aquifer properties for the San Miguel aquifer at Yuty are very similar to two of the Powder River Basin sites in Wyoming. Yuty recovery and injection rates are also very similar to these two Wyoming sites. One of these two sites have been commercially mined by the ISR process while the other was extensively pilot tested. This indicates that the Yuty uranium ore should be able to be commercially mined by the ISR process based on these aquifer properties and recovery and injection rates.

2.0 GEOLOGIC SETTING

The San Antonio area of the Yuty site is located within the western part of the Parana Basin. The mineralization is located in the San Miguel Formation. The Scott Wilson Roscoe Postle Associates report dated May 15, 2008 presents the geologic setting for the Yuty Project. The Healex Consulting report dated May 27, 2009 was also used in evaluating the Yuty site.

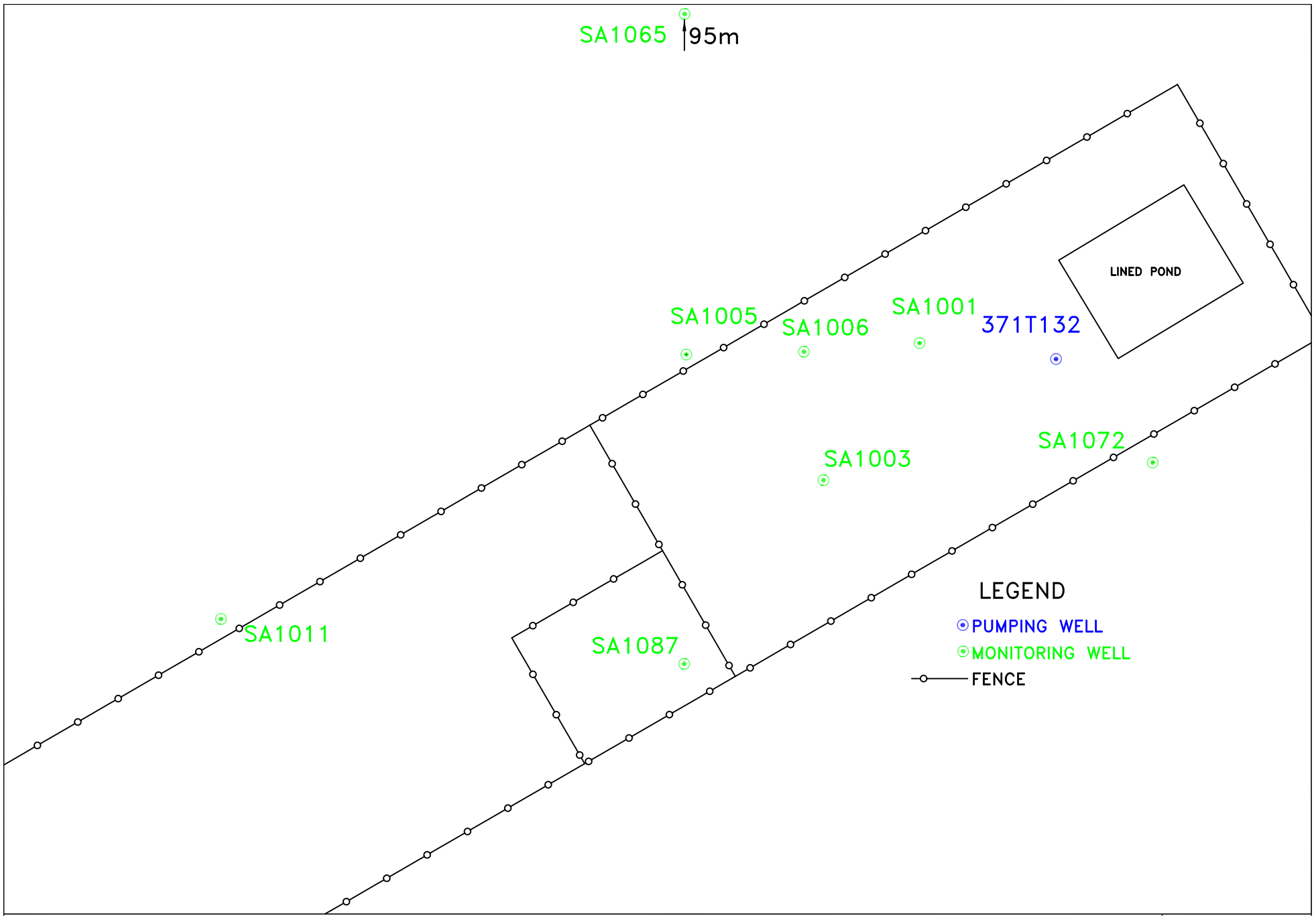
3.0 WELL CONSTRUCTION

The wells used in this pump test were constructed by both Anschutz Corporation and Cue Resources. Pumping well 371T132 was completed in the early eighty's, and is the only one constructed by the Anschutz Corporation. The rest of the wells were constructed by Cue Resources during mid 2007.

All wells are cored from the top of the basalt, which is considered the upper confining layer through the mineralized sandstone (see Figure 3-1 for location). The wells are then cored 3 to 5 meters into the underlying shale, which is considered the lower confining layer. Each well has an eight inch steel casing cemented into place from the ground surface to the top of the upper confining layer, with a 1m x 1m x 15cm –thick concrete surface sanitary seal. The wells are completed with a 4 inch PVC pipe inside the 8in steel casing, but are open hole through the mineralized sandstone.
Well locations, total depth and static water-levels are presented in Table 3-1.

TABLE 3-1
BASIC WELL DATA

	Well Name	North Coor.	East Coor.	Surface Elev. (m-msl)	MP Elev. (m-msl)	Drilled Total Depth (m)	Total Depth (m)	Water Level			Stickup (m)	Distance To PW (m)
								Date	Depth (m)	Elev. (m-msl)		
Pumping Well	371T132	7059661	574667	127.59	127.96	119.4	104	3/18/2011	5.90	122.06	0.368	--
Observation Wells	1001	7059663	574649	127.94	127.97	121.5	120.0	3/18/2011	6.62	121.34	0.03	17.7
	1003	7059645	574637	129.27	129.35	--	121.0	3/18/2011	6.21	123.13	0.08	34.9
	1005	7059661	574619	128.60	128.67	121.5	119.8	3/18/2011	7.04	121.63	0.07	47.9
	1006	7059662	574634	128.14	128.61	115.3	127.0	3/18/2011	7.28	121.33	0.47	32.6
	1011	7059627	574559	123.65	123.79	121.5	124.0	3/18/2011	8.70	115.09	0.14	113.0
	1065	7059801	574619	110.69	110.86	--	112.8	3/18/2011	3.43	107.43	0.17	148.0
	1072	7059647	574680	128.23	128.39	120.3	120.6	3/18/2011	6.61	121.78	0.15	18.3
	1087	7059621	574619	131.89	131.99	126.1	124.0	3/18/2011	10.47	121.53	0.10	62.2



CUE RESOURCES LTD: YUTY URANIUM PROJECT

FIGURE 3-1. WELL LOCATION MAP

DATE: 3/29/11

SCALE: 1 in= 20 m

PAGE: 3-3

4.0 DESIGN OF AQUIFER PROPERTIES

A multi well pump test of the San Miguel aquifer at the Yuty Uranium Project was conducted to define aquifer properties in the area of the uranium mineralization in the San Miguel Formation. The SA label in the names of the wells has been used in this section and in the maps; all other sections and figures have dropped the SA label.

4.1 TEST DESIGN AND EQUIPMENT LAYOUT

Well 371T132 was selected as the pumping well to stress the San Miguel aquifer and cause drawdown in numerous observation wells. Figure 4-1 presents the pump test plan map and shows the location of pumping well 371T132 and each of the observation wells. Observation wells SA1001, SA1005, SA1072, SA1087 and SA1011 were equipped with pressure transducers (see Figure 4-1 for transducer numbers for wells monitored with transducers). The depth of water in each of these wells was collected with these pressure transducers. Manual measurements were also made with electric tapes to obtain water levels to adjust the pressure transducer data. Only manual data was collected from three additional monitoring wells, SA1003, SA1006 and SA1065. Water level data in each of these wells was collected prior to pump test, during the pumping phase, and during the recovery after the pump was shut off. The barometric pressure was also recorded by a data logger for potential use in correcting the depth to water level. Depth to water prior to the start of the pump test is tabulated in Table 3-1 and in Appendix A which tabulates the transducer depths to water and then list the manual water levels. These water level elevations for the depth to water were used to develop a water level elevation map.

Figure 4-2 presents the water level elevations for the San Miguel aquifer prior to the pump test. The values in red are the water level elevation in meters above sea level. The elevation near the majority of the wells is slightly greater than 120 meters and decreases to slightly less than 115 meters at observation well SA1001 and less than 110 meters at observation well SA1065. The map shows that the hydraulic gradient of the piezometric surface is very steep in this area at 0.1 m per meter.

4.2 DATA TO BE COLLECTED

Manual water level measurements and pressure transducer measurements are taken throughout the length of this pump test. These measurements are taken from both the pumping well and the monitoring wells.

4.2.1 DEPTH TO WATER AND PUMPING WELL

The depth to water is presented in feet and in pumping well 371T132 it was over 22ft prior to the start of the pumping. Figure 4-3 shows the period of pumping this

well which started on March 19, 2011 at 14:07 and was shut off due to a pump problem at 14:50. The pumping was resumed at 17:00 and continued through March 21, 2011 at 15:36. The pump was also down for approximately two minutes on March 20 at 6:20. The barometric pressure collected during this time is also presented on Figure 4-3 with the green line. The change in barometric pressure is approximately 2/10 of an inch of mercury which should make changes in barometric pressure insignificant to the depth to water.

4.2.2 DEPTH TO WATER IN OBSERVATION WELLS

Depth to water in observation well 1001 is presented in Figure 4-4. This data shows that the depth to water was slightly greater than 21ft prior to start of the test and was near 42ft at the end of the pumping phase of the test. The changes in the depth to water for the small variations in the barometric pressures were not corrected for the barometric changes. The depth to water for the pressure transducer gradually deviated from the manual water level measurements during the pumping phase of the test but returned to be very similar to the manual measurements during the recovery phase of the pumping test. This deviation between the transducer and manual measurements was concluded to be due to a variation in the consistency of the liquid in the well because the well contains some oil from the drilling process.

Figure 4-5 presents the depth to water level measurements obtained for the observation well 1072. Water levels in this well declined from slightly less than 22ft prior to pumping to 35ft below the top of the well. Water levels deflected slightly larger in this observation well during the pumping phase of the test. Observation well 1072 had a larger amount of oil on top of the water level.

Only manual water levels were observed for observation well 1006. Figure 4-6 presents the depth to water level measurements and the barometric pressure collected during the test, this shows that water levels declined from 24ft to slightly greater than 40ft in well 1006.

Observation well1003 was also observed with manual water level measurements. Figure 4-7 presents these manual water levels which show the water level depth to water prior to the pumping was greater than 20ft and slightly greater than 27ft at the end of the pumping phase.

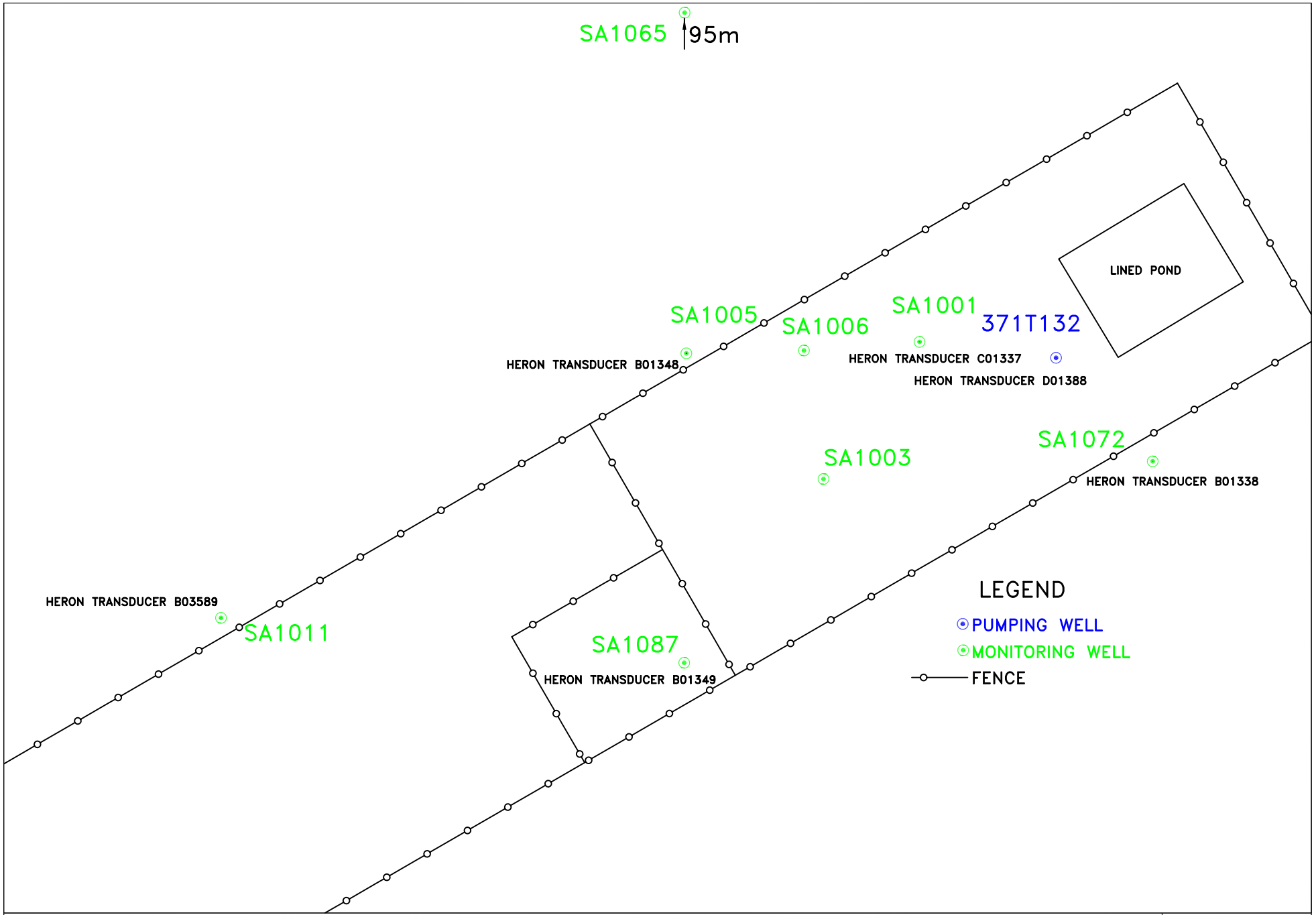
Observation well 1005 water levels were observed with a pressure transducer and manual water level measurements. Figure 4-8 shows that the water levels in this well varied from 23ft prior to the pump test to nearly 36ft at the end of the pumping phase of the test.

Observation well 1087 which is located 62.2 meters from the pumping well was observed with a pressure transducer and numerous manual water levels. Figure 4-9 presents the depth to water data collected during the pumping for

observation well 1087. Greater than 11ft of drawdown occurred during this pump test at observation well 1087.

Observation well 1011 which is 113 meters from the pumping well 371T132 was observered with a pressure transducer. Figure 4-10 presents the water level data collected from this observation well. Manual and transducer data agree well for observation well 1011 except during the later part of the recovery phase when animals disturbed the pressure transducer. They disturbed the well head which affected the pressure transducer's depth to water level. The small magnitude of drawdown is likely the reason the manual and transducer drawdowns agree.

One additional observation well which is located to the north of the pumping well was monitored with manual water level measurements. Figure 4-7 presents the depth to water for observation well 1065 showing that the water level changed approximately ½ of a foot during this pump test. This data indicates that the pumping of well 371T132 had approximately 0.3ft of drawdown at well 1065.



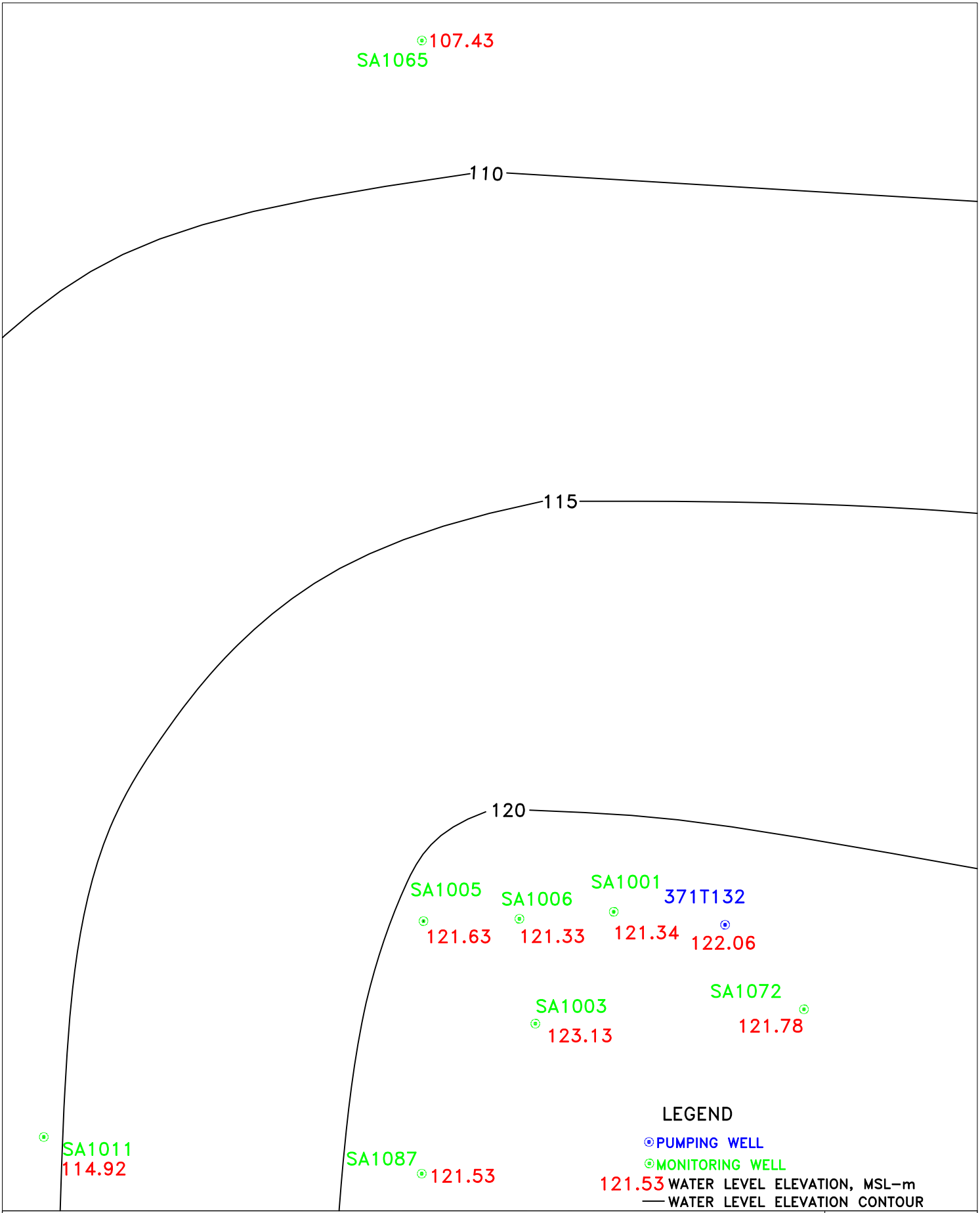
CUE RESOURCES LTD: YUTY URANIUM PROJECT

FIGURE 4-1. PUMP TEST PLAN MAP

DATE: 3/29/11

SCALE: 1 in= 20 m

PAGE: 4-4



CUE RESOURCES LTD: YUTY URANIUM PROJECT	DATE: 3/29/11
FIGURE 4–2. WATER LEVEL ELEVATION FOR SAN MIGUEL AQUIFER	SCALE: 1 in= 20 m
	PAGE: 4–5

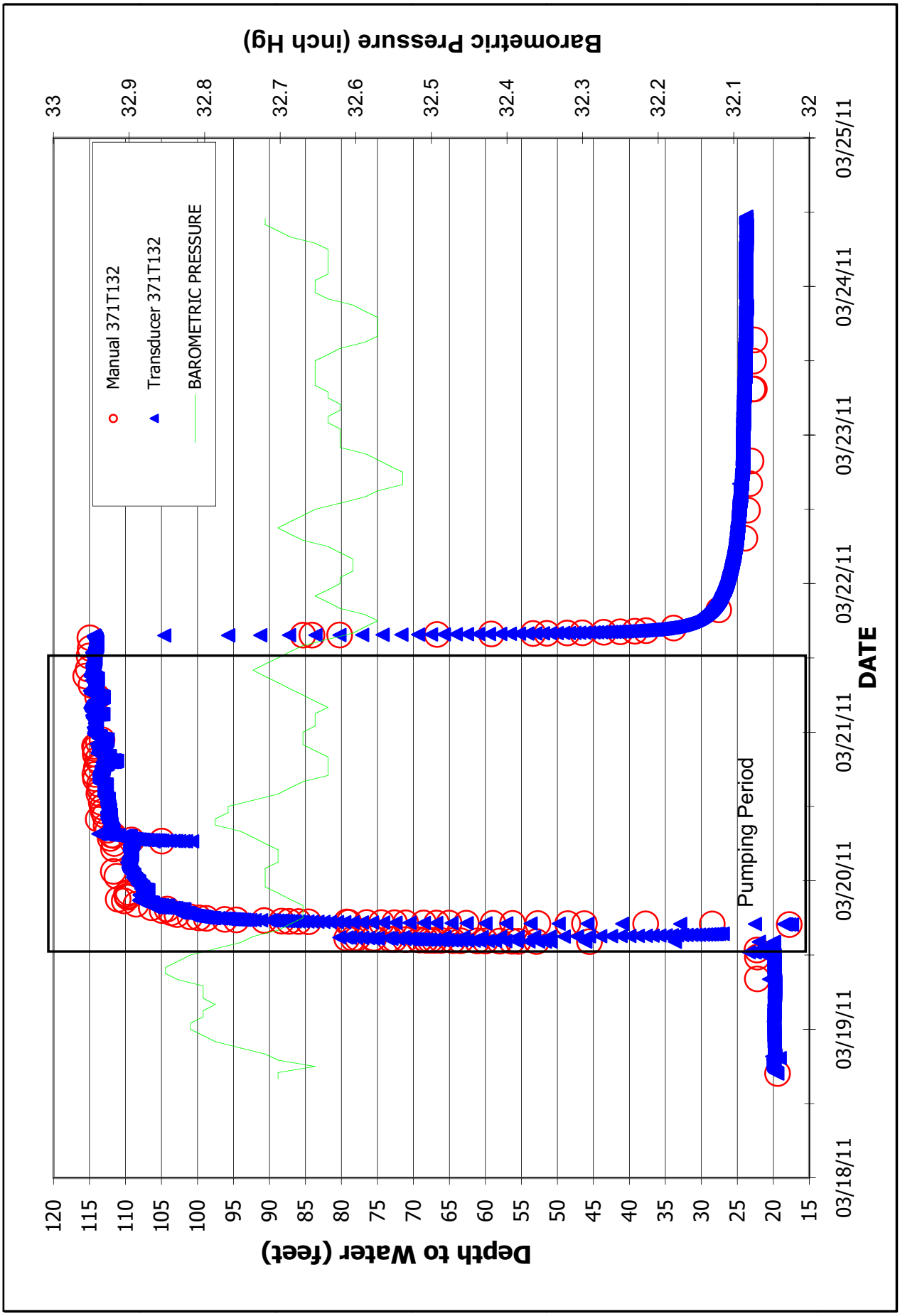


FIGURE 4-3. DEPTH TO WATER VERSUS TIME FOR PUMPING WELL 371T132

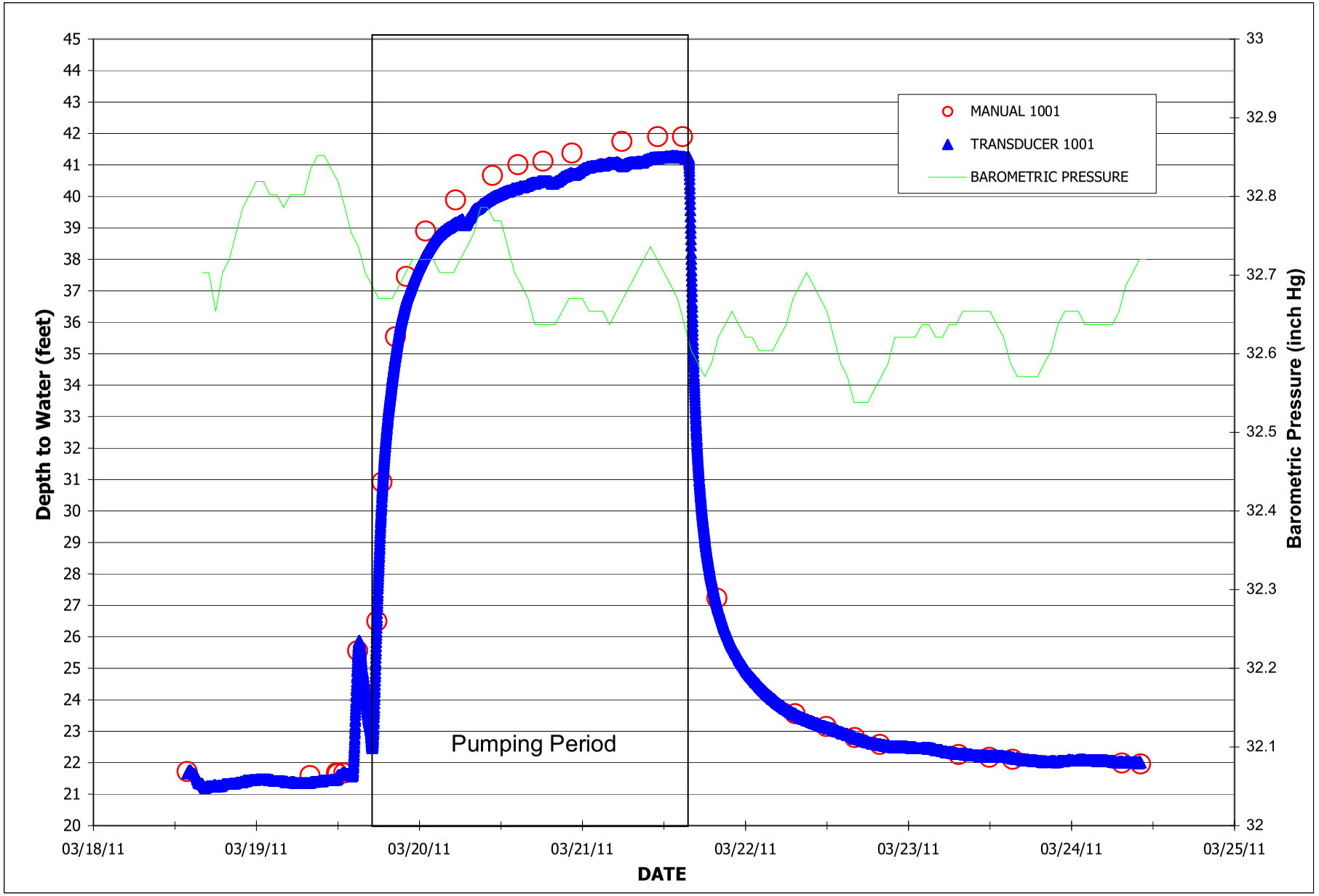


FIGURE 4-4. DEPTH TO WATER VERSUS TIME FOR OBSERVATION WELL 1001

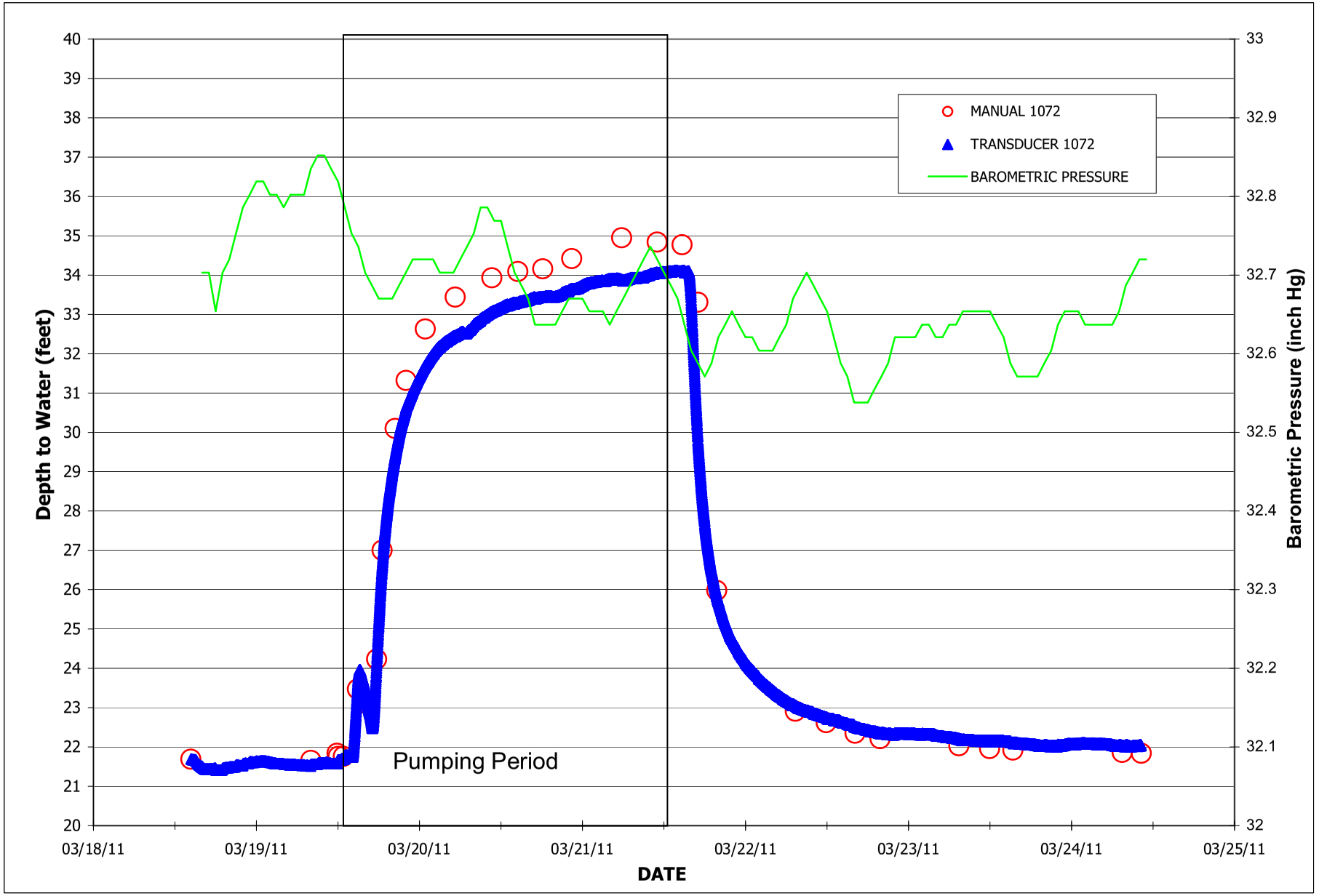


FIGURE 4-5. DEPTH TO WATER VERSUS TIME FOR OBSERVATION WELL 1072

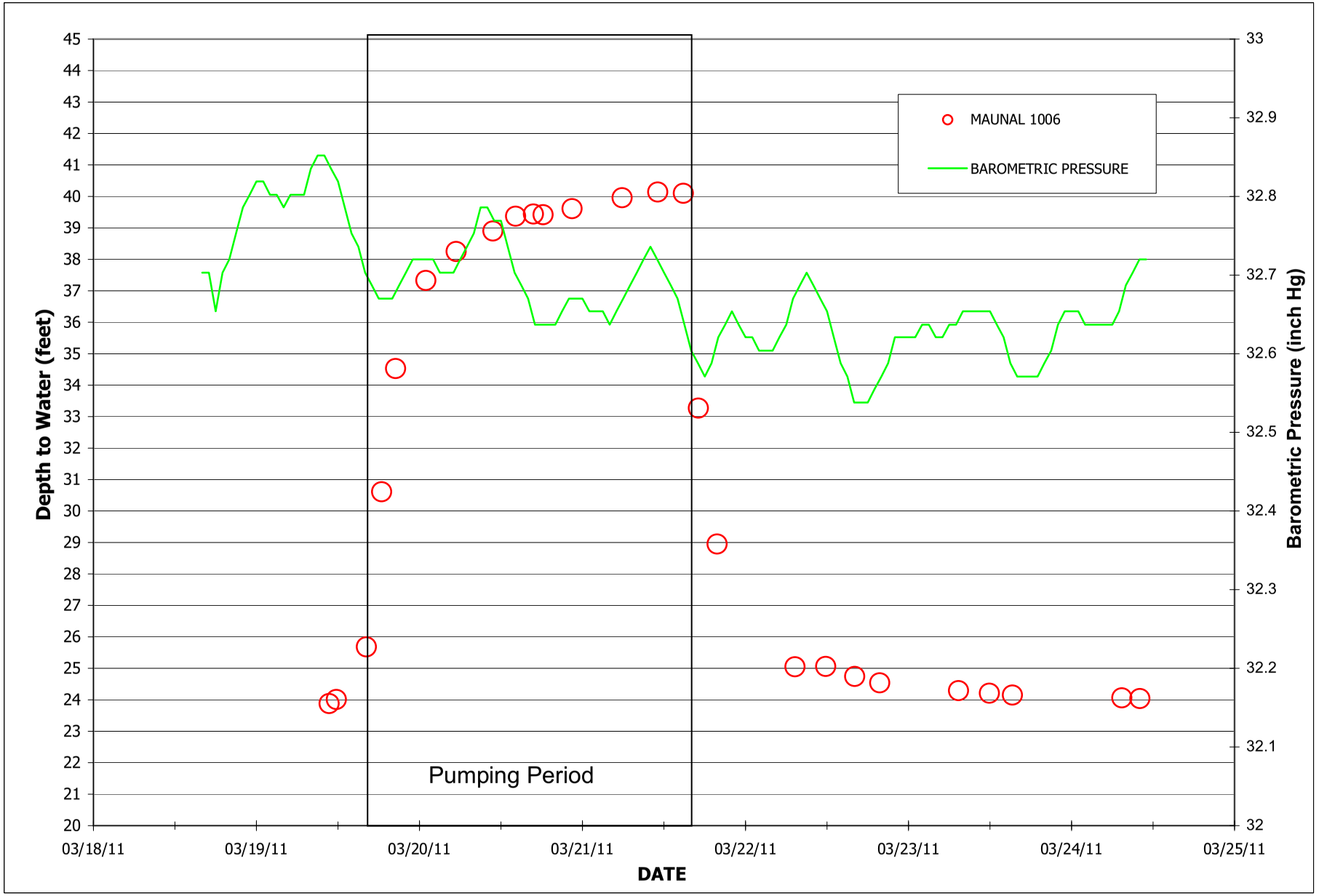


FIGURE 4-6. DEPTH TO WATER VERSUS TIME FOR OBSERVATION WELL 1006

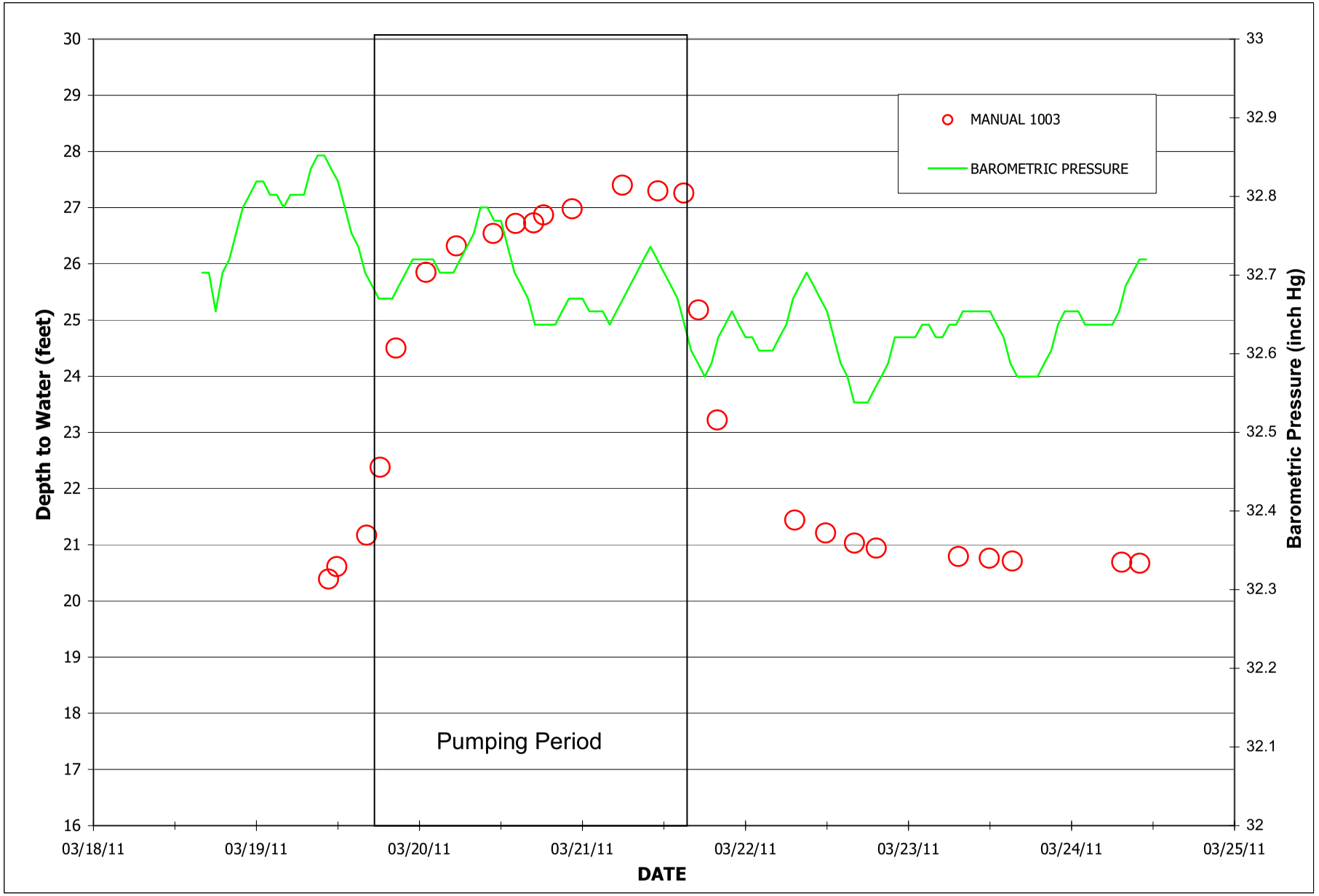


FIGURE 4-7. DEPTH TO WATER VERSUS TIME FOR OBSERVATION WELL 1003

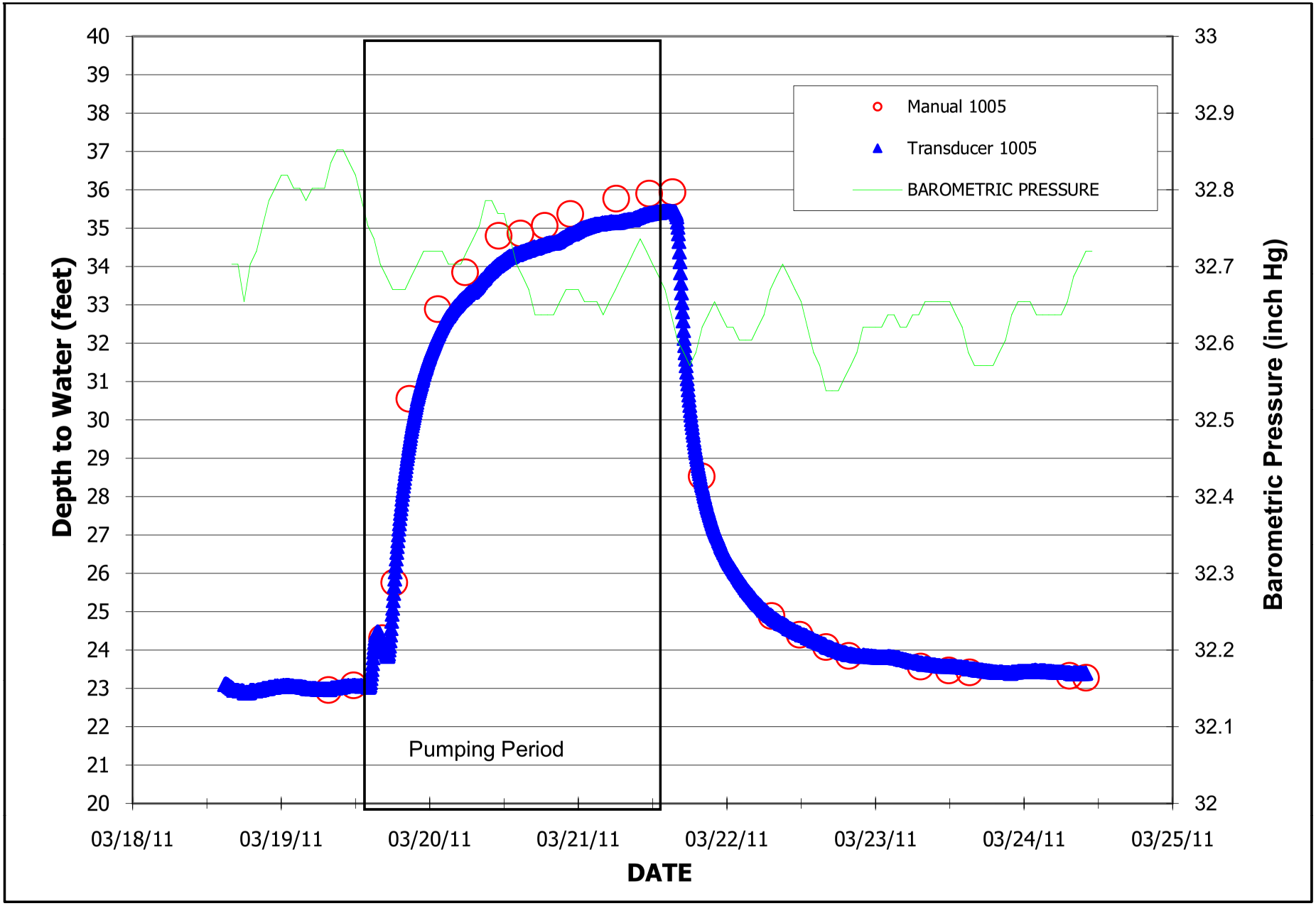


FIGURE 4-8. DEPTH TO WATER VERSUS TIME FOR OBSERVATION WELL 1005

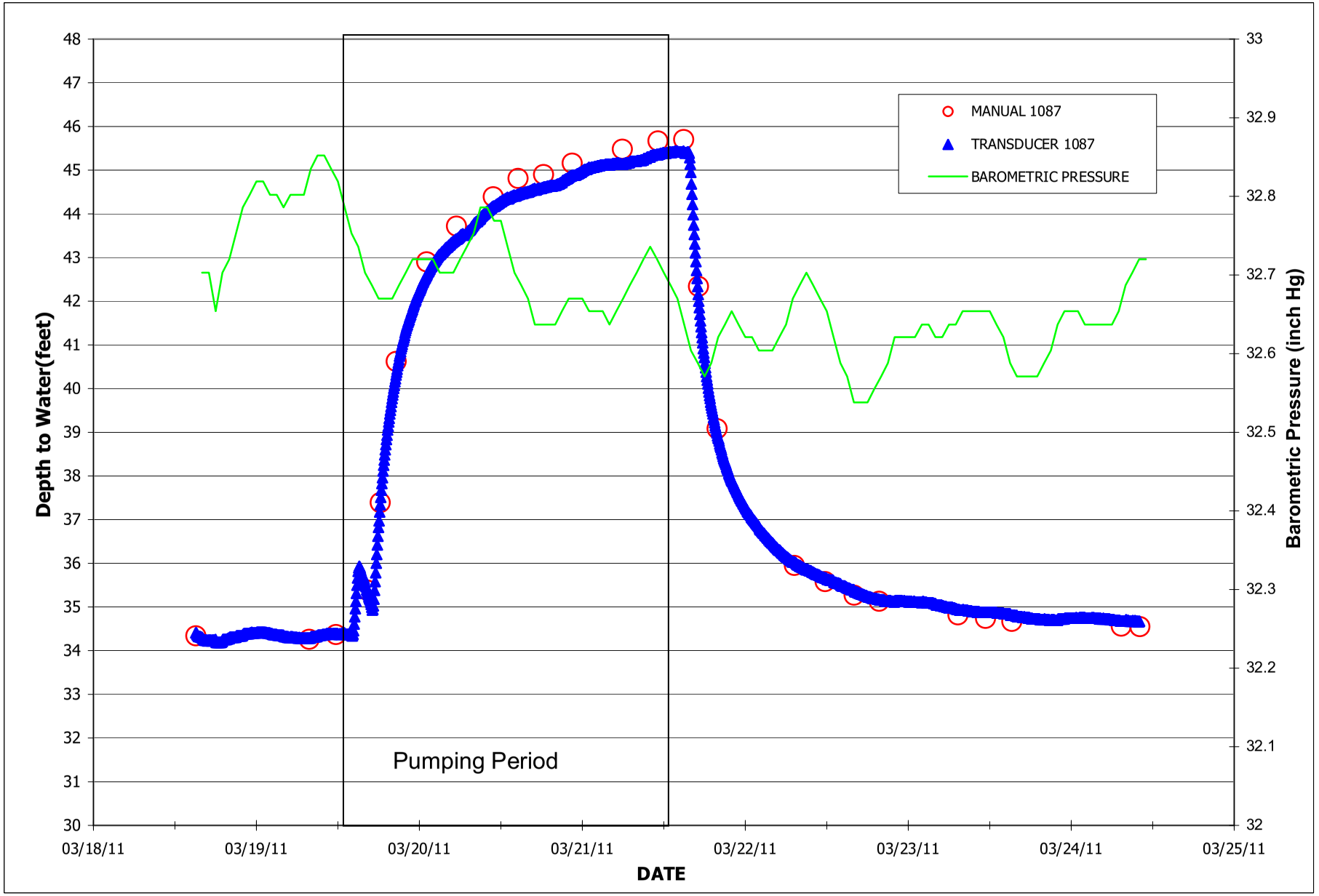


FIGURE 4-9. DEPTH TO WATER VERSUS TIME FOR OBSERVATION WELL 1087

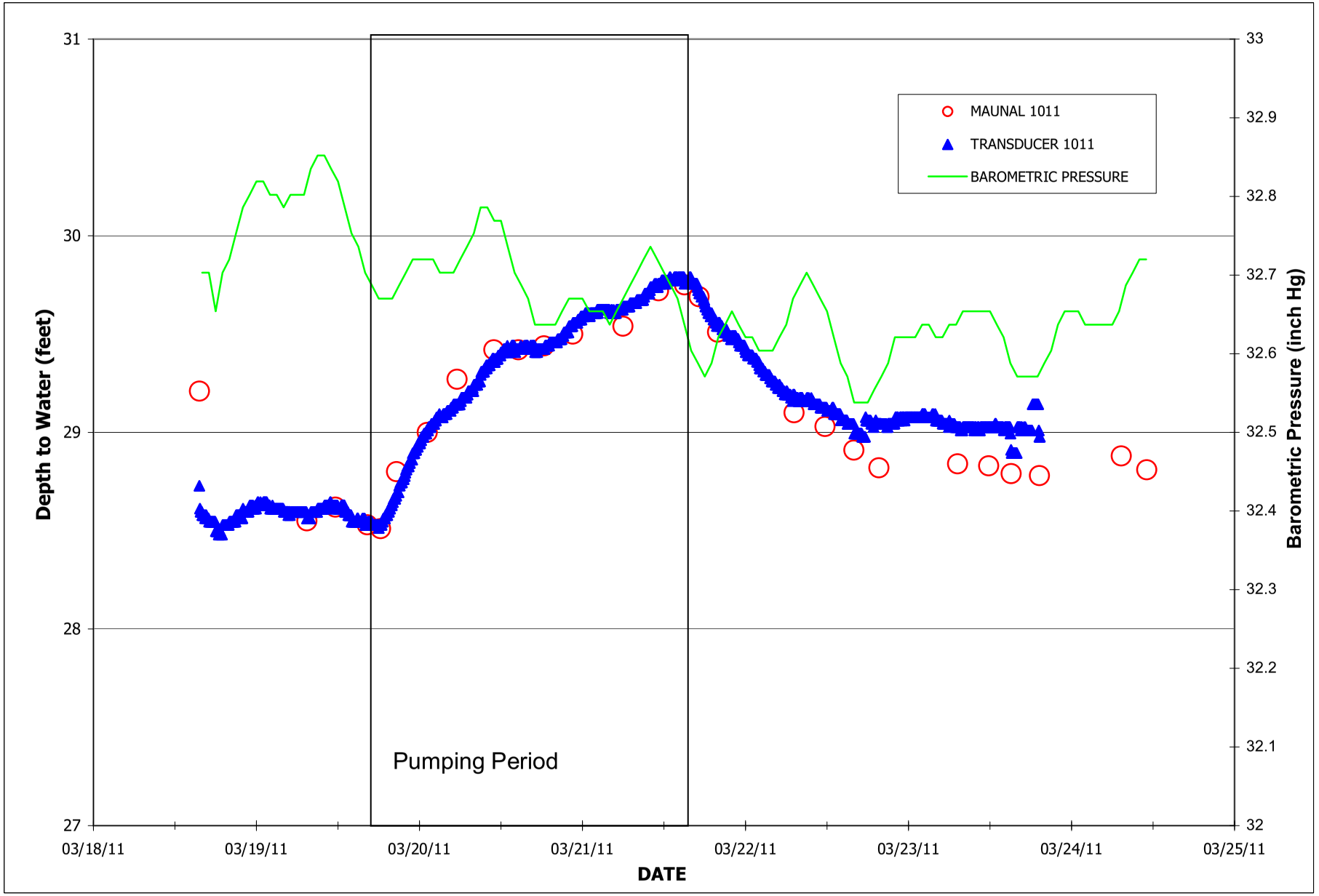


FIGURE 4-10. DEPTH TO WATER VERSUS TIME FOR OBSERVATION WELL 1011

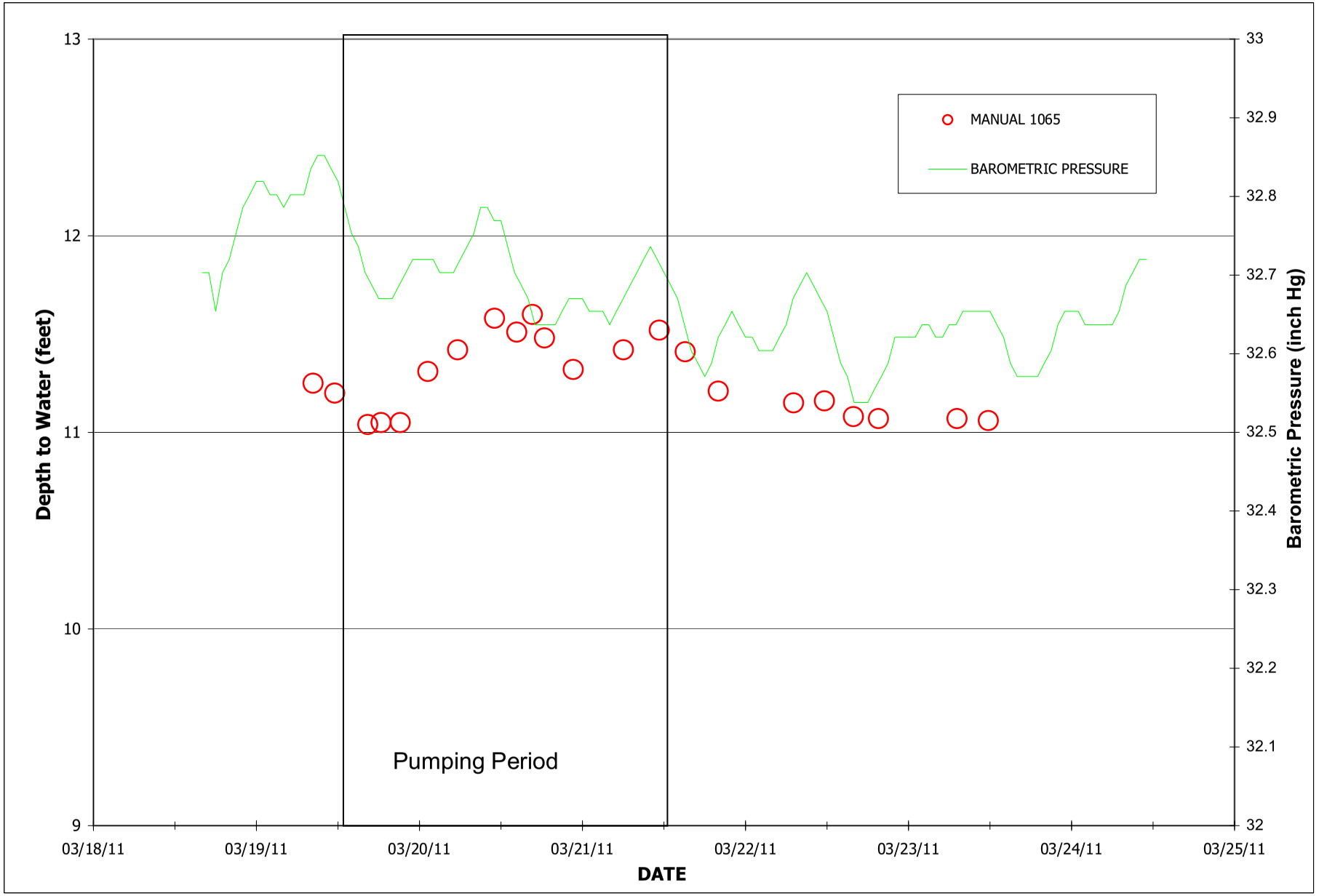


FIGURE 4-11. DEPTH TO WATER VERSUS TIME FOR OBSERVATION WELL 1065

5.0 TEST RESULTS AND AQUIFER PROPERTIES

This section presents the results from the pump test. The data gathered from the transducers showed some deviation from the manual measurements that were taken. This deviation could be caused by oil that has remained in the well after being drilled. The adjustment factor used to correct the drawdown and recovery data for each transducer has been given in Table 5-1.

5.1 BAROMETRIC PRESSURE AND BACKGROUND TRENDS

Barometric pressure data was taken during this pump test. This data is compared to the water-level measurements to find if there are any significant water level changes resulting from changes in barometric pressure. The barometric data does show small fluctuations that correspond to changes on a daily basis. It also displays a slight decrease in the barometric pressure through the course of the pumping and recovery stages of the test. Barometric pressure is presented on each of the linear well plots of depth to water versus time, Figures 4-3 through 4-11. Barometric pressure changes were not great enough to warrant any type of correction.

Water-level trends prior to pumping were studied for each of the wells. They can also be seen in Figures 4-3 through 4-11. All water-levels prior to pumping were relatively steady and do not show a need for a water level trend correction.

5.2 TEST RESULTS

Pumping well 371T132

Well 371T132 was pumped at an average rate of 34.4 L/min (9.1 gpm) for slightly less than two days. Appendix A presents the tabulated pre-test, pumping, drawdown and recovery water level data collected from this multi-well pump test. An adjustment factor of 1.02 was used for the transducer measurements for drawdown and recovery data. Figure 5-1 shows the straight-line fit of the drawdown data for 371T132, which yielded a transmissivity value of 1.69 m^2/day (136 gal/day/ft). The Theis recovery drawdown plot is presented in Figure 5-2 and yields an identical transmissivity value to the straight-line fit. The drawdown deflects below the straight line with time indicating leaky aquifer conditions at this site.

Observation well 1001

Well 1001, located 17.7m (58 feet) from the pumping well, was observed during this pump test. The adjustment factor used for the drawdown and recovery transducer data was 1.04. The straight-line fit of the drawdown data is presented in Figure 5-3 and yields a transmissivity value of 2.30 m^2/day (185 gal/day/ft). The recovery plot and its straight-line fit are presented in Figure 5-4. The

transmissivity value generated from this plot is 2.22 m^2/day (179 gal/day/ft). The log-log fit of the drawdown data is presented in Figure 5-5 and yields a transmissivity value of 1.62 m^2/day (130 gal/day/ft). The early time fit of the straight-line drawdown is thought to yield the best aquifer properties and those are used to calculate average aquifer properties for the San Miguel aquifer from this test. The leaky aquifer conditions were not attempted to be analyzed from this test.

Observation well 1072

Well 1072, located 18.3m (60 feet) from the pumping well, was observed during this pump test. An adjustment factor of 1.07 was used for the transducer data. Figure 5-6 presents the straight-line fit of the drawdown data. The resulting transmissivity value is 3.39m^2/day (273 gal/day/ft). Figure 5-7 presents the recovery data and its straight-line fit which yields a transmissivity value of 2.89 m^2/day (233 gal/day/ft). The log-log fit of the drawdown, presented in Figure 5-8, yields a transmissivity value of 2.60 m^2/day (209 gal/day/ft).

Observation well 1006

Well 1006, located 32.6m (107 feet) from the pumping well, was observed using manual measurements during the pump test. The drawdown data and its straight-line fit are presented in Figure 5-9 and yield a transmissivity value of 2.73 m^2/day (220 gal/day/ft). Figure 5-10 shows the recovery data and its straight-line fit. The transmissivity value generated from this data is 3.01 m^2/day (242 gal/day/ft). A log-log fit of the drawdown data is presented in Figure 5-11 and yields a transmissivity value of 2.88 m^2/day (232 gal/day/ft).

Observation well 1003

Well 1003, located 34.9m (111 feet) from the pumping well, was also observed using manual measurements during the pump test. Figure 5-12 presents the straight-line fit of the drawdown data and yields a transmissivity of 6.08 m^2/day (489 gal/day/ft). The straight-line fit of the recovery data is presented in Figure 5-13 and shows a transmissivity value of 6.57 m^2/day (529 gal/day/ft). The log-log fit of the drawdown data, shown in Figure 5-14, yields a transmissivity value of 6.18 m^2/day (497 gal/day/ft). The higher transmissivity values generated from the results of this well could be the result of the well not being fully developed prior to the pump test.

Observation well 1005

Well 1005, located 47.9m (157 feet) from the pumping well, was observed during the pump test. An adjustment factor of 1.05 was used for the transducer data. The straight-line fit of the drawdown data is shown in Figure 5-15 and yields a transmissivity value of 3.09 m^2/day (249 gal/ft/day). Figure 5-16 presents the

recovery data and its straight-line fit. The resulting transmissivity value is 3.38 m^2/day (272 gal/day/ft). The log-log fit of the drawdown data, presented in Figure 5-17, yields a transmissivity value of 2.7 m^2/day (217 gal/day/ft).

Observation well 1087

Well 1087, located 62.2m (204 feet) from the pumping well, was observed during the pump test. The adjustment factor used for the transducer data was 1.04. Figure 5-18 presents the straight-line fit of the drawdown data with a resulting transmissivity value of 3.68 m^2/day (296 gal/day/ft). The straight-line fit of the recovery data is presented in Figure 5-19 and yields a transmissivity value of 3.85 m^2/day (310 gal/day/ft). Figure 5-20 presents the log-log fit of the drawdown data which yields a transmissivity value of 4.18m^2/day (336 gal/day/ft).

Observation well 1011

Well 1011, located 113m (371 feet) from the pumping well, was observed during the pumping test. Figure 5-21 presents the drawdown data for this well. Transmissivity was not calculated for this plot due to too short of a pumping period for this method. The straight-line fit of the recovery data is presented in Figure 5-22 and yields a transmissivity value of 13.7 m^2/day (1100 gal/day/ft). The log-log fit of the drawdown data is presented in Figure 5-22 and yields a transmissivity value of 16.20 m^2/day (1304 gal/day/ft). These values are not thought to be representative of the aquifer near well 1011. The higher values are most likely due the leaky conditions affecting earlier drawdown at this distant observation well.

Observation well 1065

Well 1065, located 148 meters (486 feet) from the pumping well, was observed using manual measurements during the pump test. While a few tenths of a foot of drawdown was observed at this well, the magnitude was not substantial enough to analyze.

5.3 SUMMARY OF AQUIFER PROPERTIES

Aquifer properties from the 371T132 multi well pump test obtained from the straight line method are thought to be representive of the San Miguel aquifer properties at the Yuty site. The fit of the straight line method prior to the leaky effects were used in this analysis. Analysis of leaky conditions was not made because the curves did not seem to fit the leaky conditions type curves. Average transmissivity of 3.54m^2/day (285 gallons/day/foot) was obtained from the average of the straight line method. The storage coefficient for the San Miguel aquifer average is 2.0E-4.

The average hydraulic conductivity based on the aquifer thickness of 46m (151ft) was computed from the average transmissivity and is 0.077 m/day (0.25 ft/day). This hydraulic conductivity is typical of the lower side of the hydraulic conductivities of ISR projects in the Powder River Basin in Wyoming.

5.4 DRAWDOWN AT THE END OF THE PUMP TEST

The drawdown at the end of the pumping phase of the test is presented in Figure 5-24. A circled drawdown pattern is shown on this figure and fits the drawdown in the observation wells except for the wells that were not developed (see values presented in black on Figure 5-24). This drawdown pattern does not indicate any directional transmissivity and therefore this analysis was not made.

TABLE 5-1. SUMMARY OF AQUIFER PROPERTIES

Well	Distance from Pumping Well		Transmissivity			Cooper & Jacob			Factor For Adjusment of tranducer drawdown and recovery (@)
			Theis		Recovery (gpd/ft)	Transmissivity		Storage Coefficient	
	(m)	(ft)	*(m2/day)*	*(gpd/ft)*		*(gpd/ft)*	*(m^2/day)*		
371T132	-	-	-	-	136	136	-	-	1.02
1001	17.7	58	1.62	130	179	185	2.30	2.3E-04	1.04
1072	18.3	60	2.60	209	233	273	3.39	4.3E-04	1.07
1005	47.9	157	2.70	217	272	249	3.09	1.1E-04	1.05
1087	62.2	204	4.18	336	310	296	3.68	6.0E-04	1.04
1011	113	371	16.20	1304	1100	#	#	#	-
1006	32.6	107	2.88	232	242	220	2.73	9.9E-05	-
1003	34.9	111	6.18	497	529	489	6.08	2.9E-04	-
					AVERAGE:	285	3.54	2.0E-04	

Note: #=did not calculate because time was not large enough for this method
@ = The drawdown and recovery transducer data was multiplied times these factors to adjust it to manual data

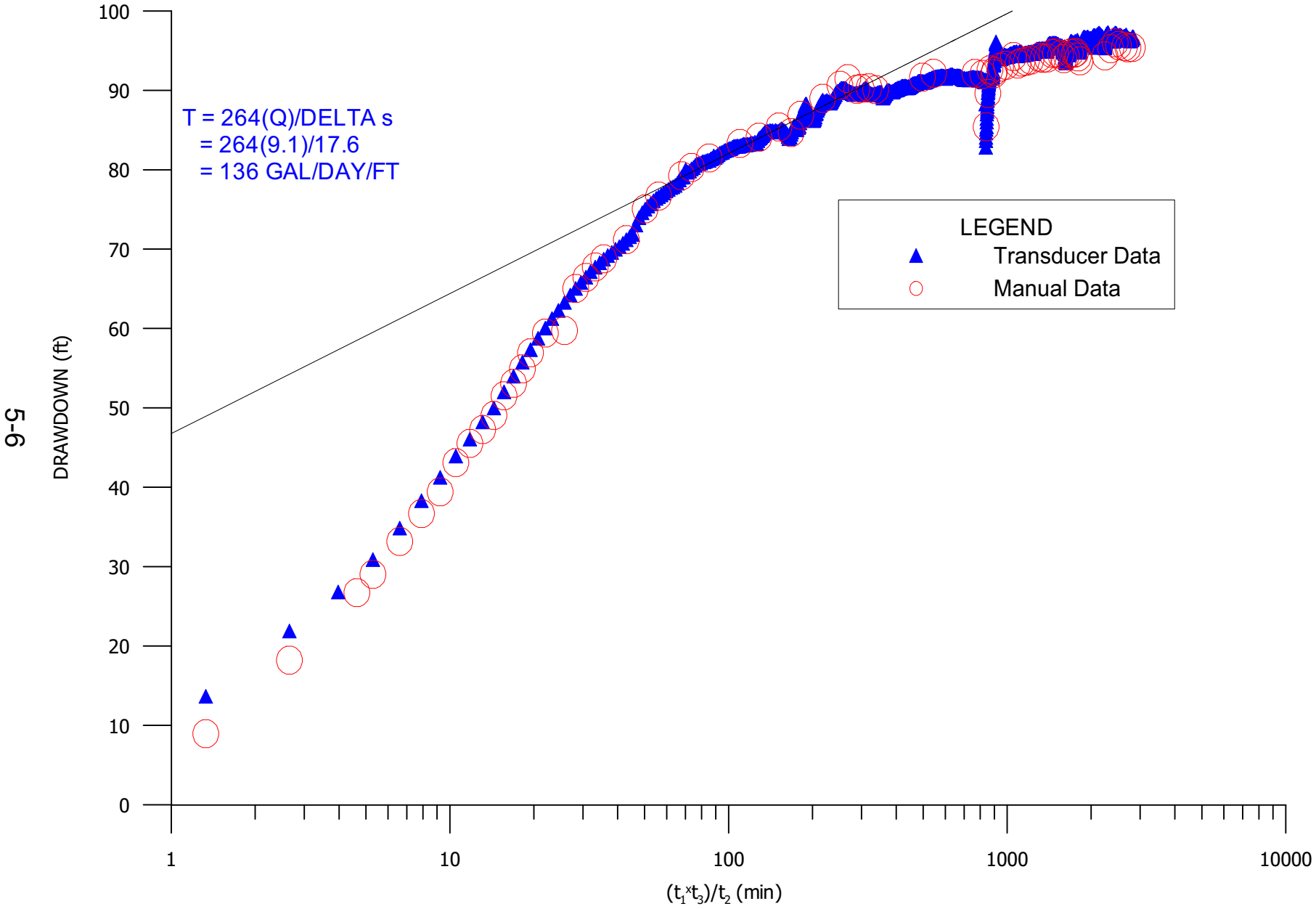


FIGURE 5-1. DRAWDOWN IN PUMING WELL 371T132

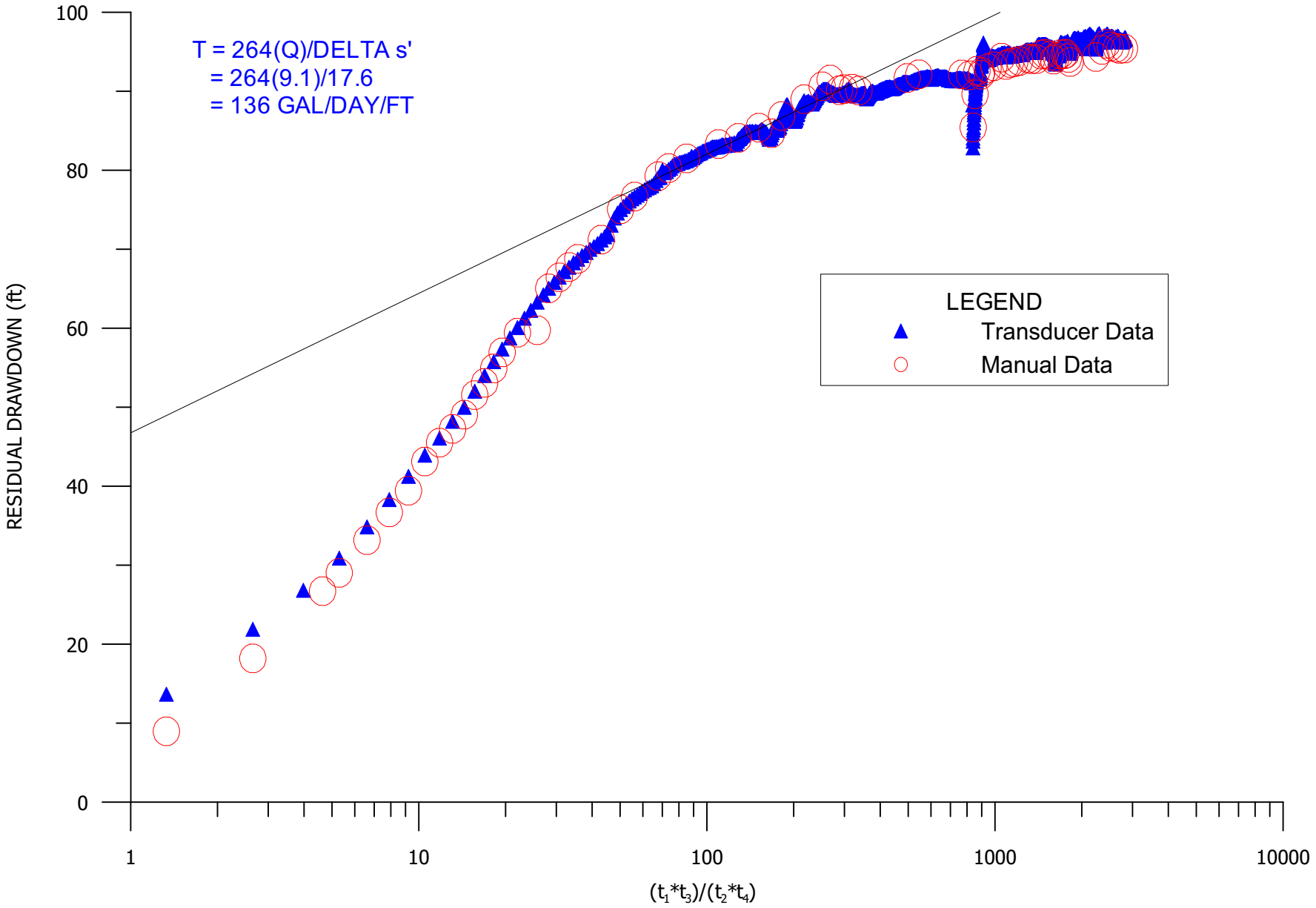


FIGURE 5-2. RECOVERY IN PUMPING WELL 371T132

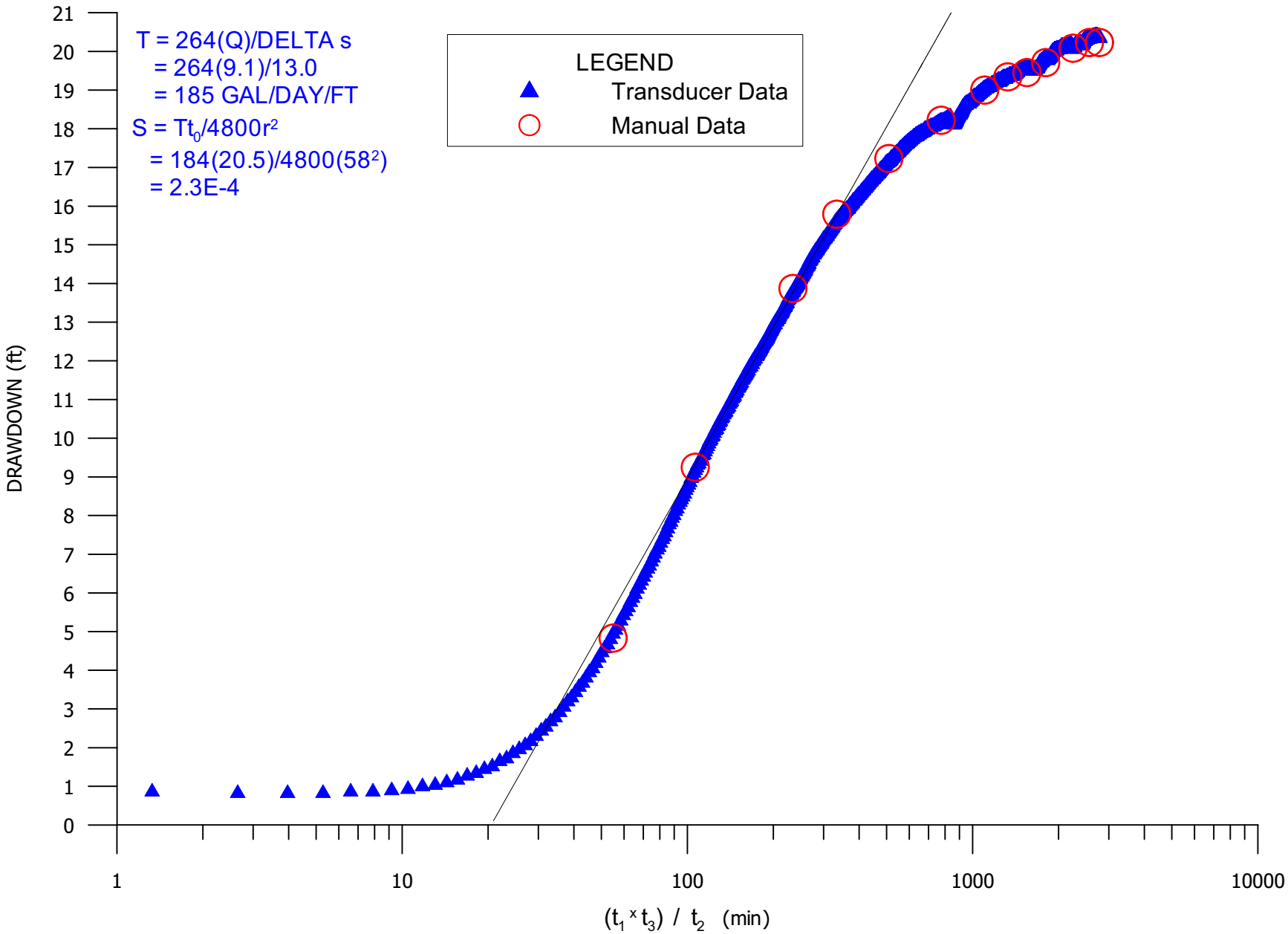


FIGURE 5-3. DRAWDOWN IN OBSERVATION WELL 1001

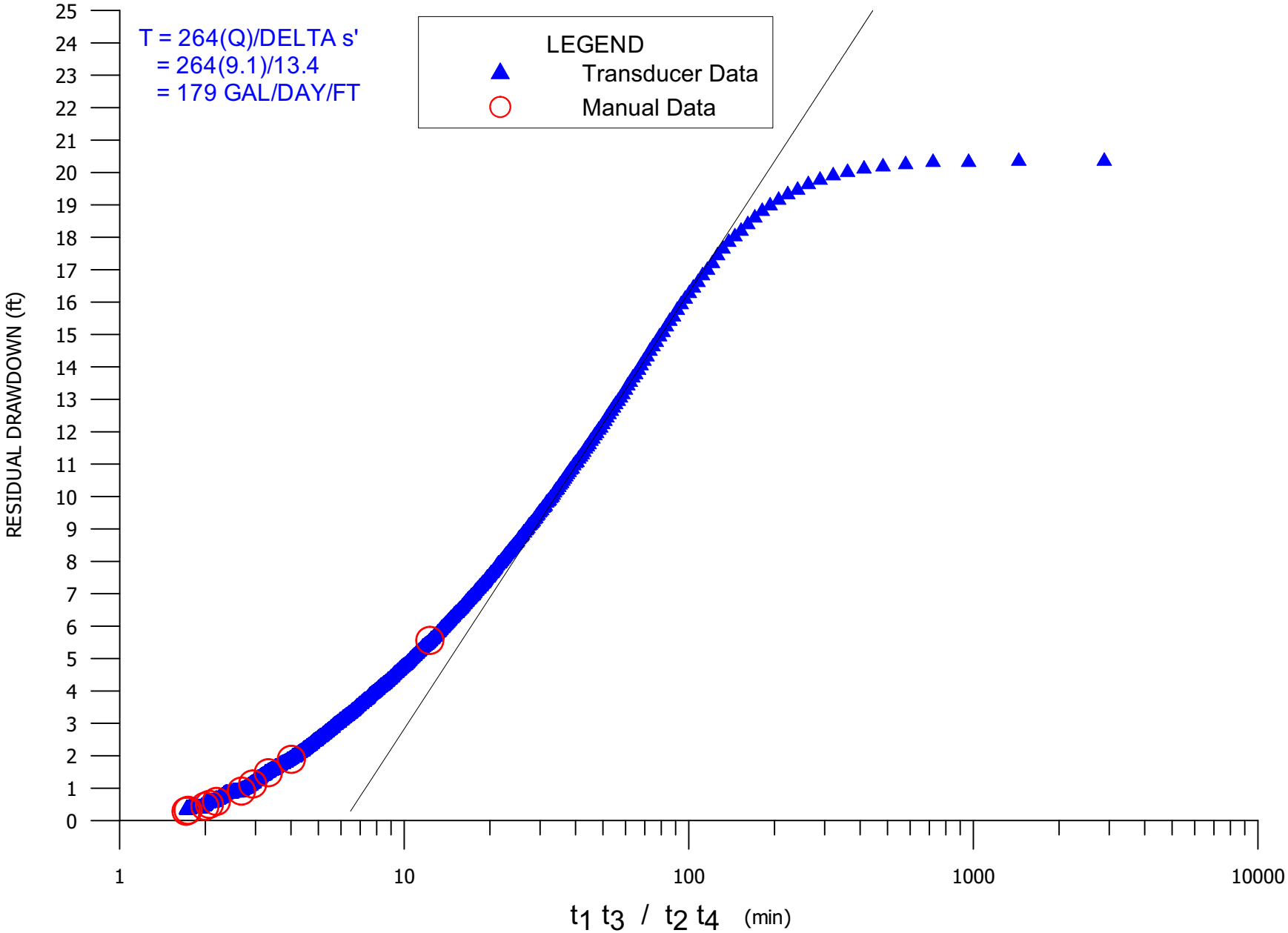


FIGURE 5-4. RECOVERY IN OBSERVATION WELL 1001

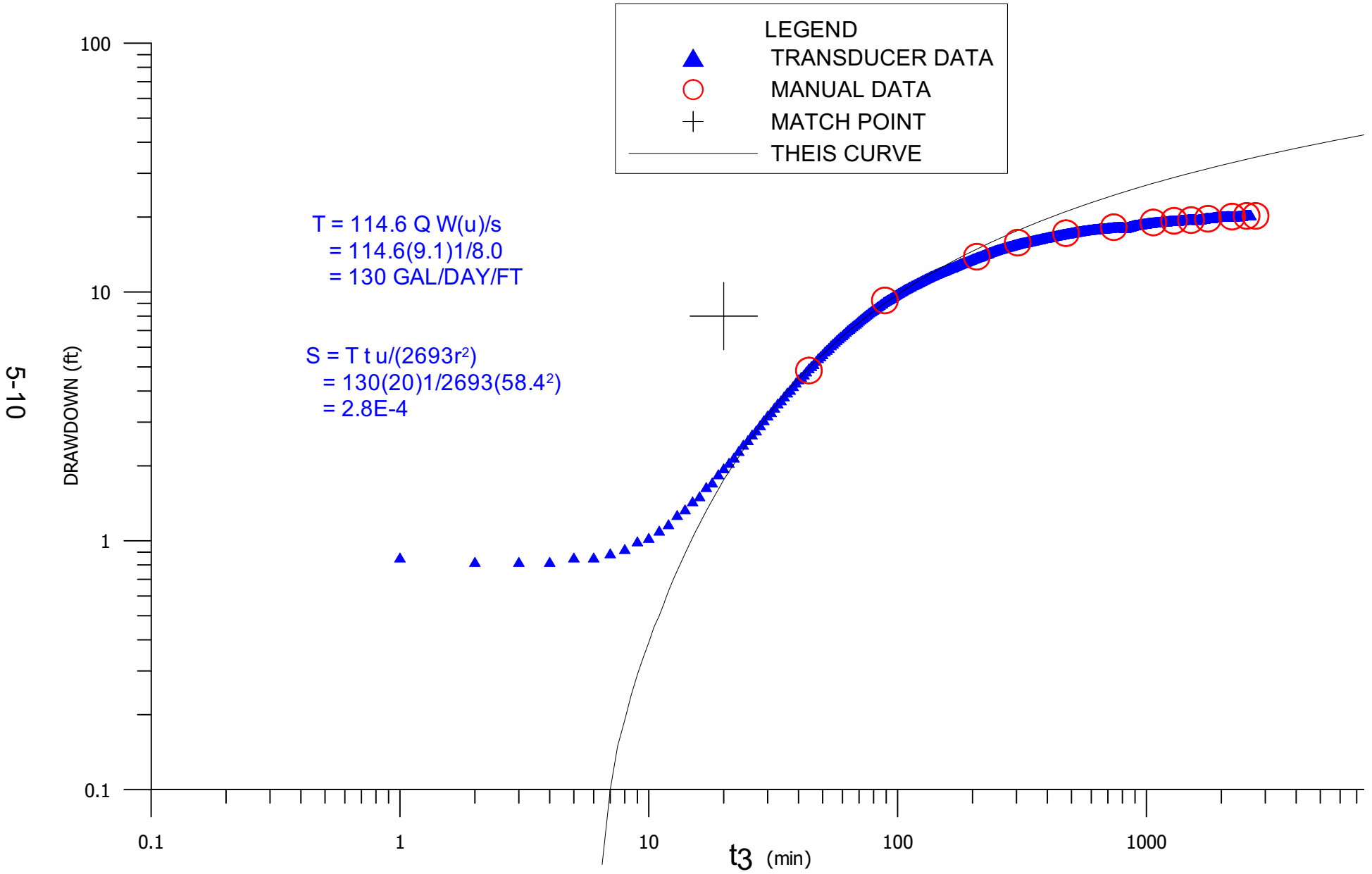


FIGURE 5-5. DRAWDOWN IN OBSERVATION WELL 1001, LOG-LOG

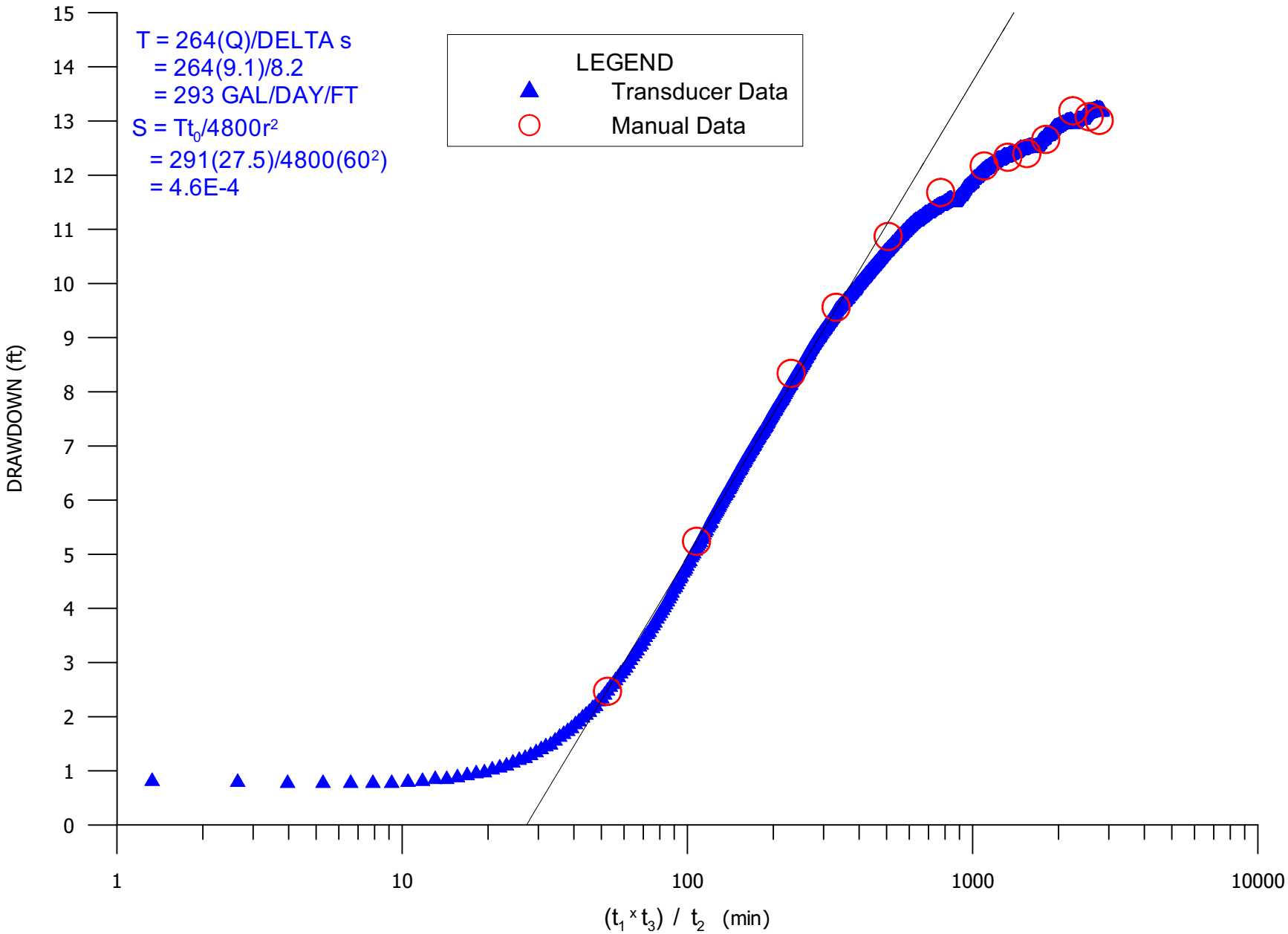


FIGURE 5-6. DRAWDOWN IN OBSERVATION WELL 1072

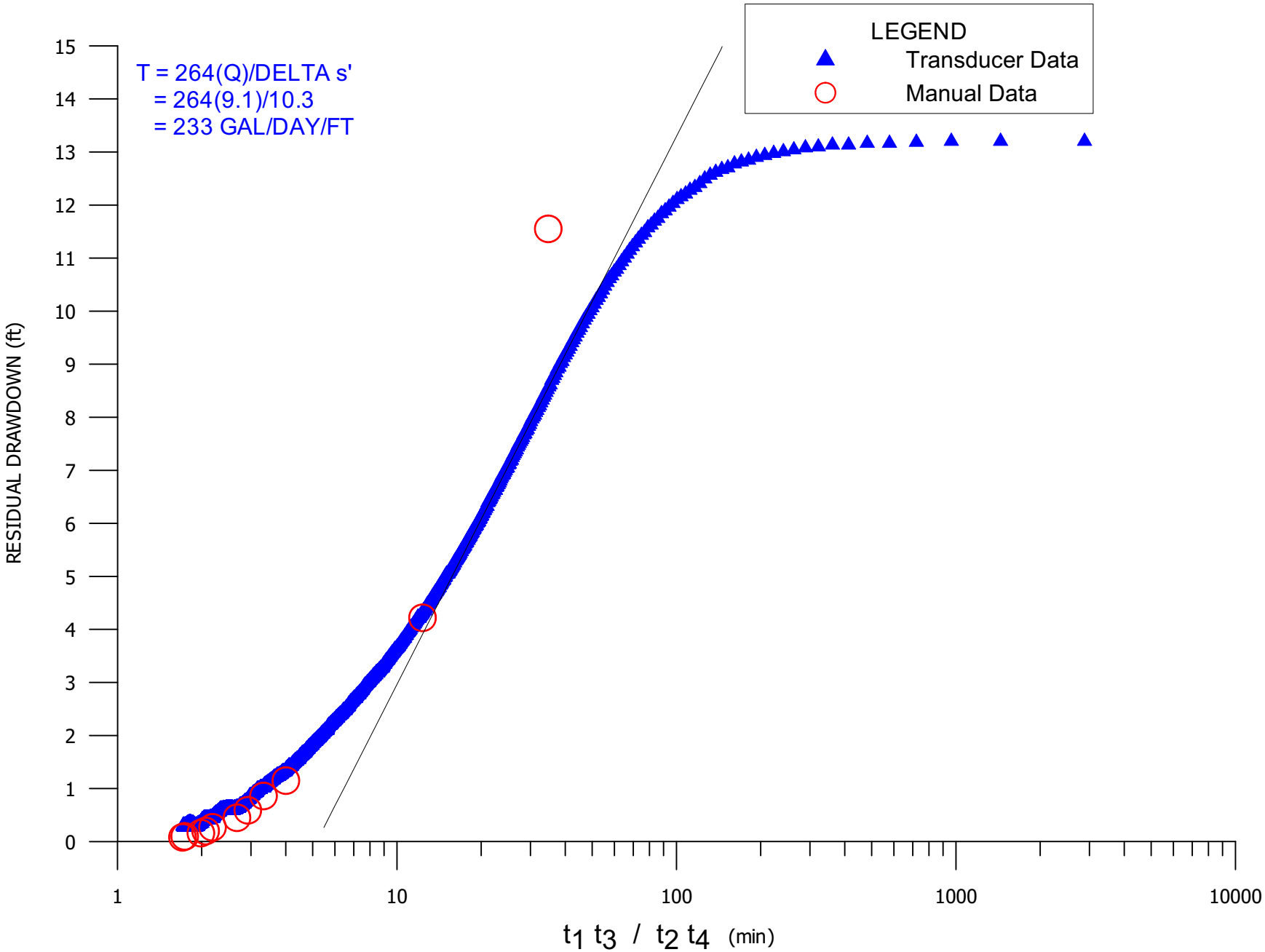


FIGURE 5-7. RECOVERY IN OBSERVATION WELL 1072

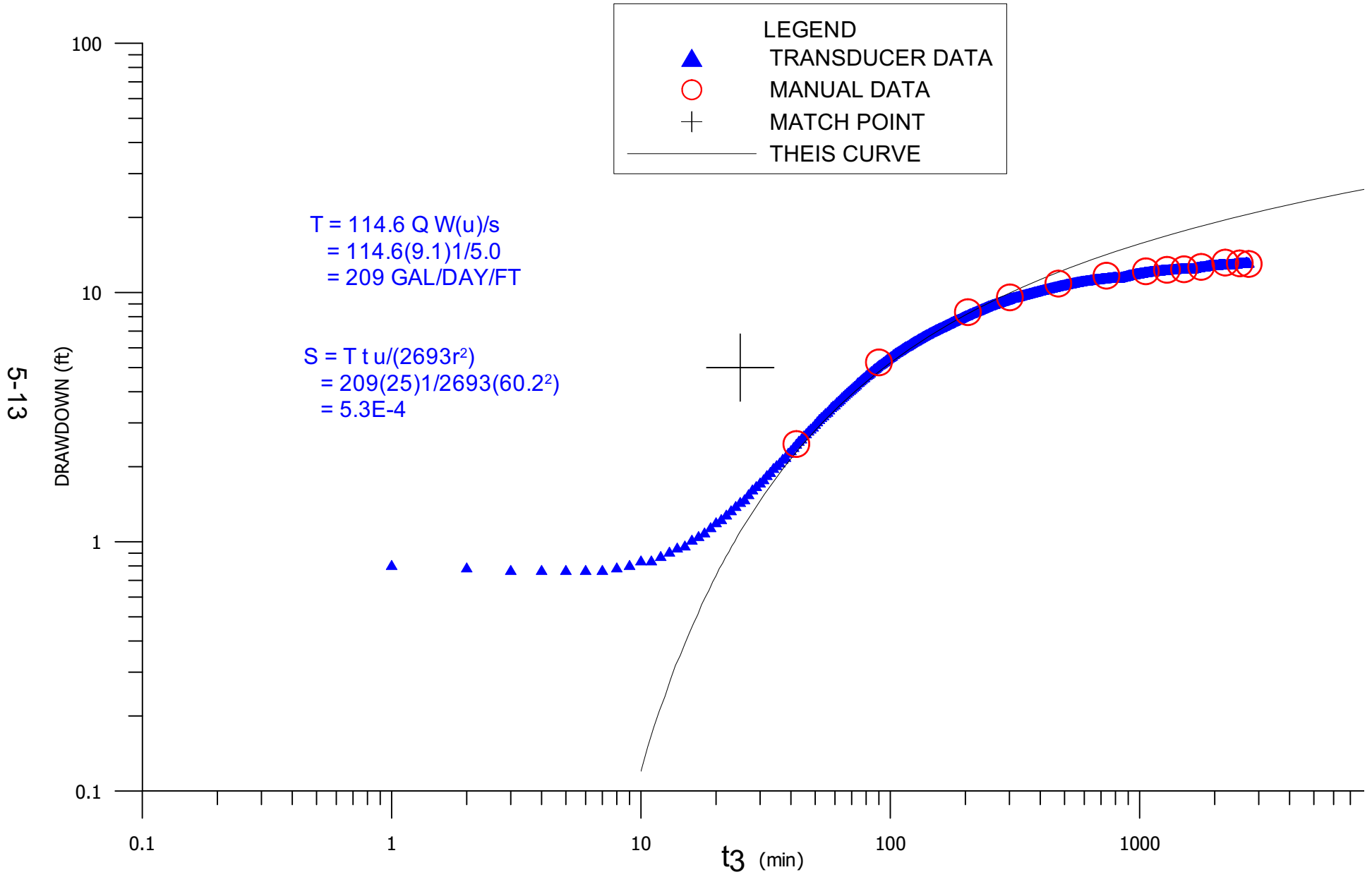


FIGURE 5-8. DRAWDOWN IN OBSERVATION WELL 1072, LOG-LOG

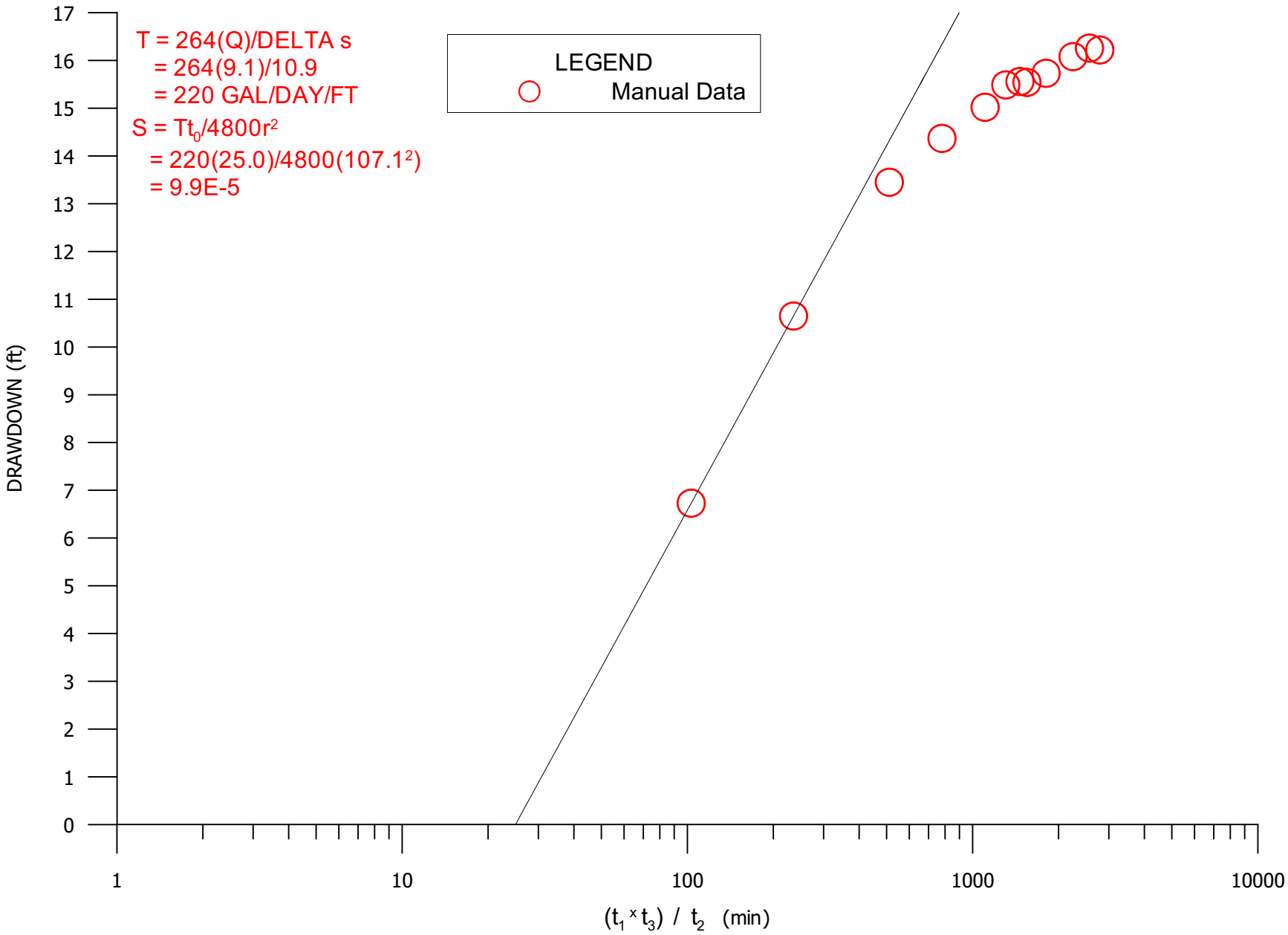


FIGURE 5-9. DRAWDOWN IN OBSERVATION WELL 1006

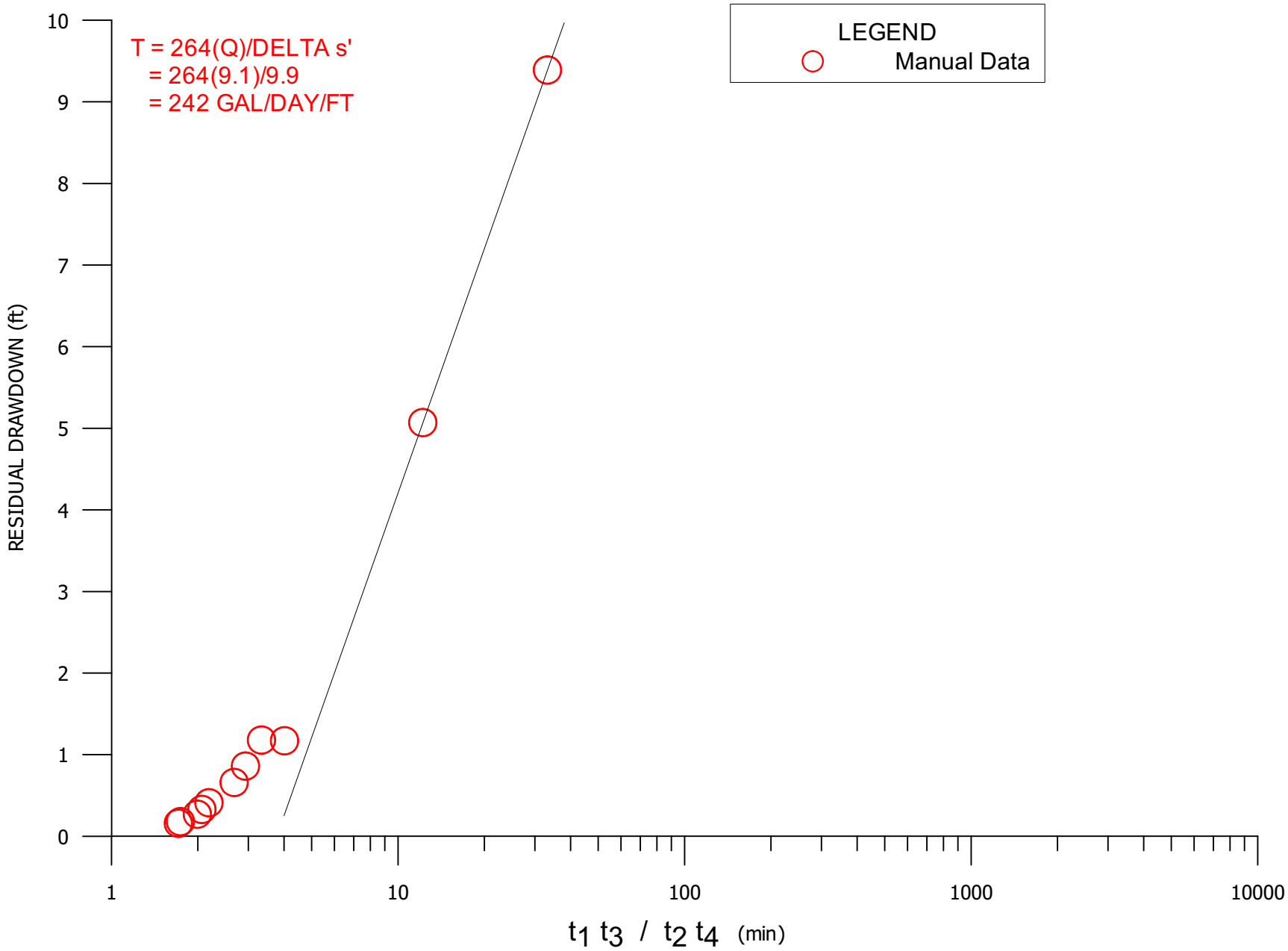


FIGURE 5-10. RECOVERY IN OBSERVATION WELL 1006

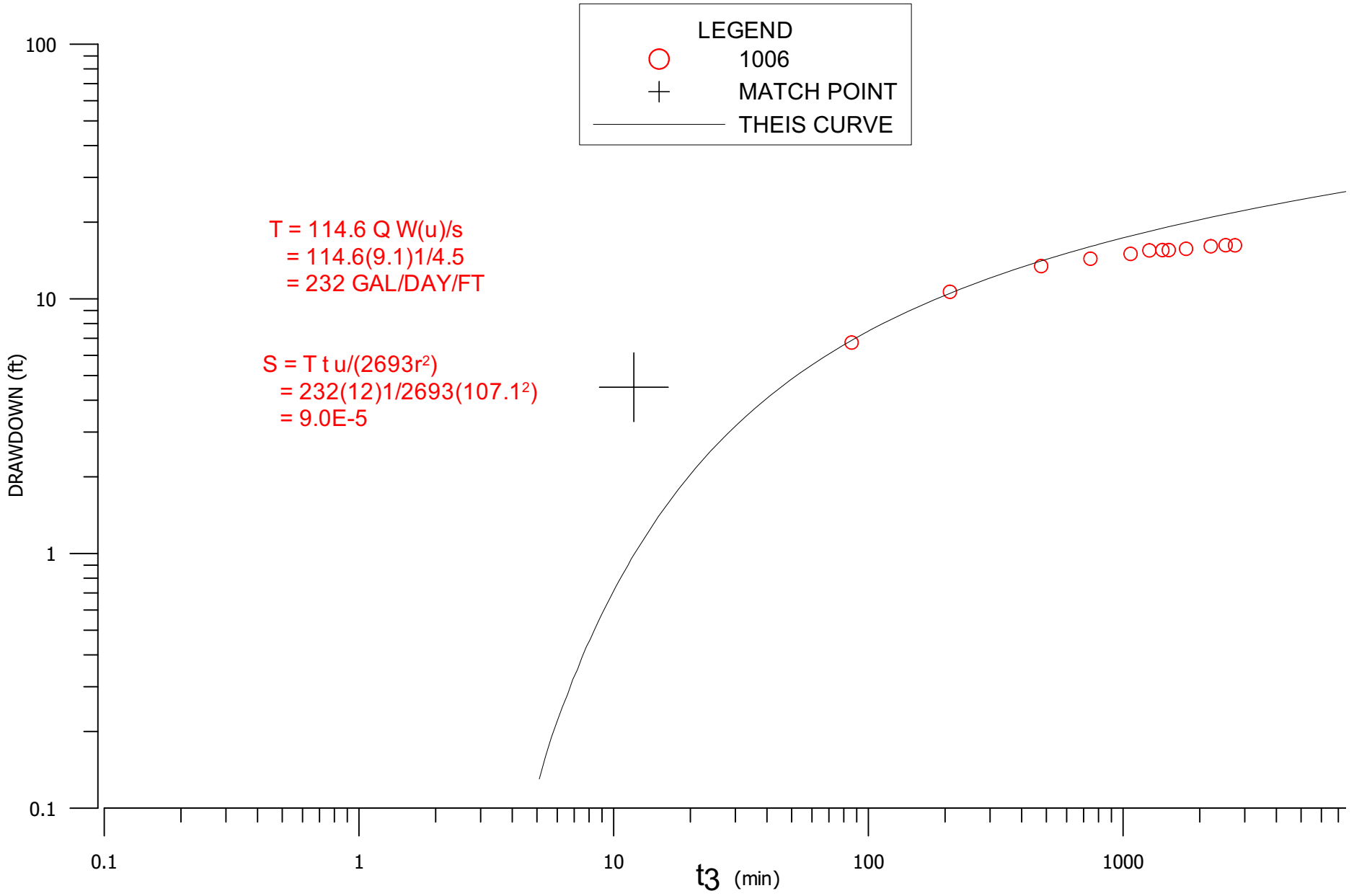


FIGURE 5-11. DRAWDOWN IN OBSERVATION WELL 1006, LOG-LOG

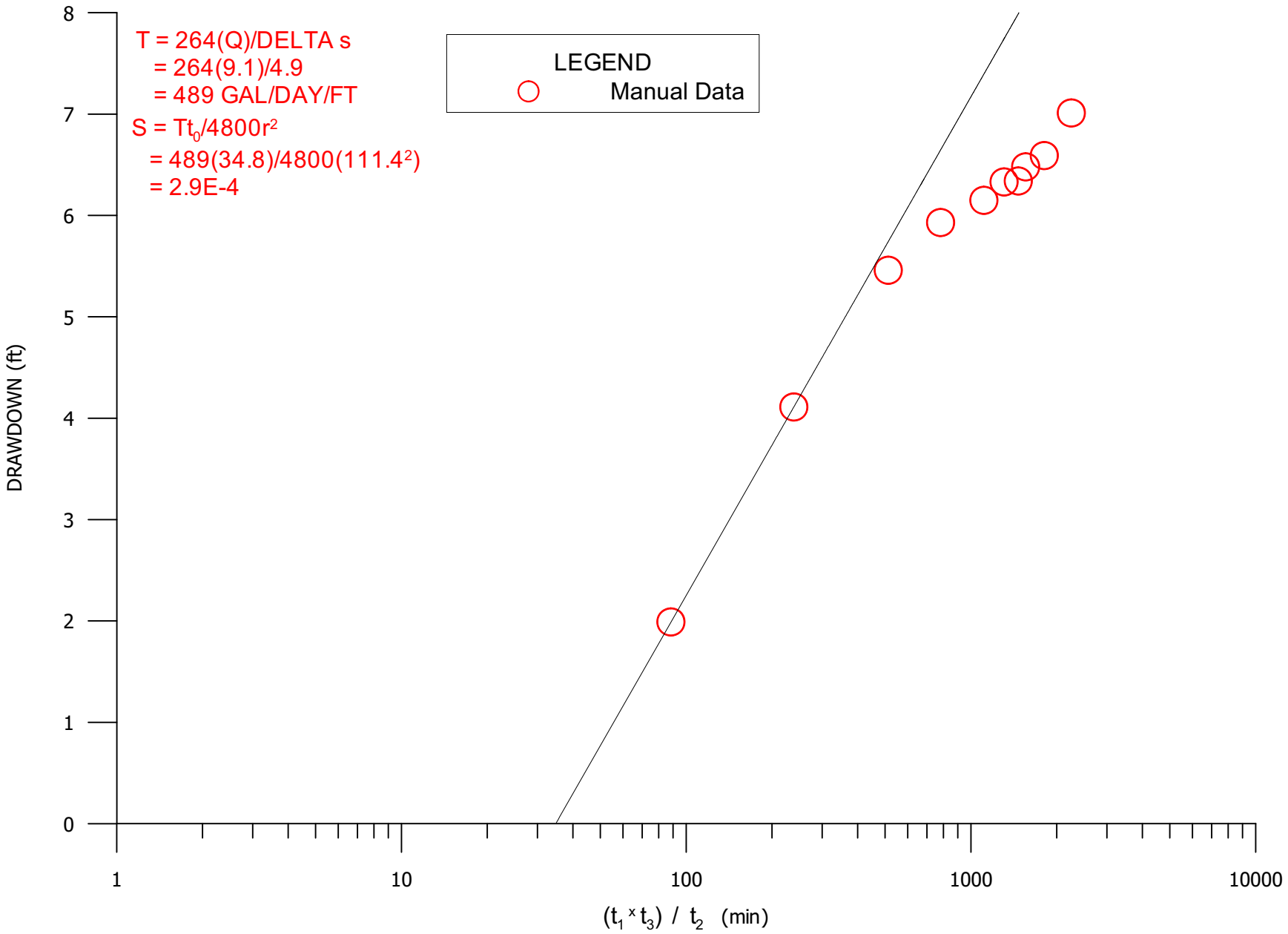


FIGURE 5-12. DRAWDOWN IN OBSERVATION WELL 1003

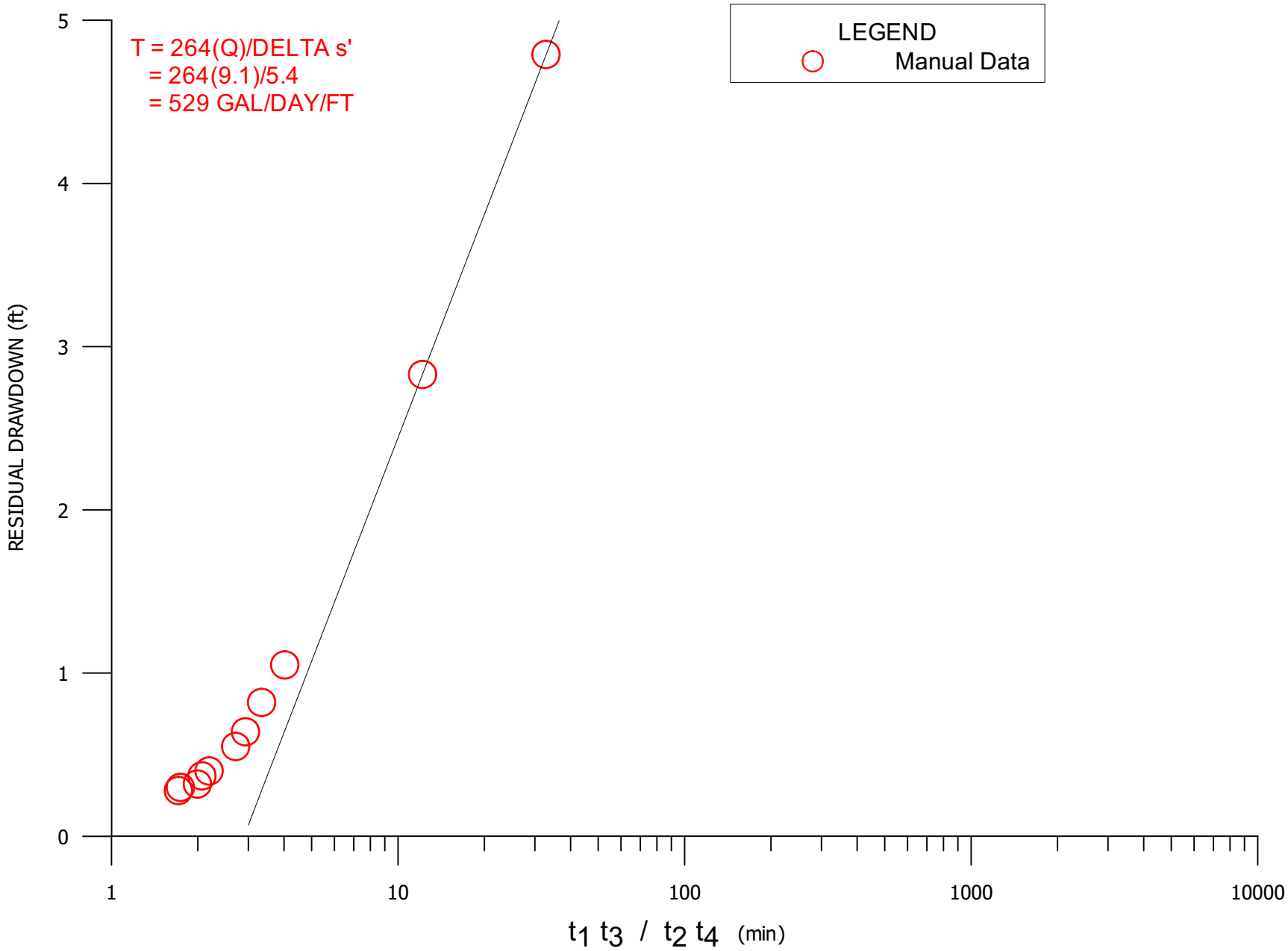


FIGURE 5-13. RECOVERY IN OBSERVATION WELL 1003

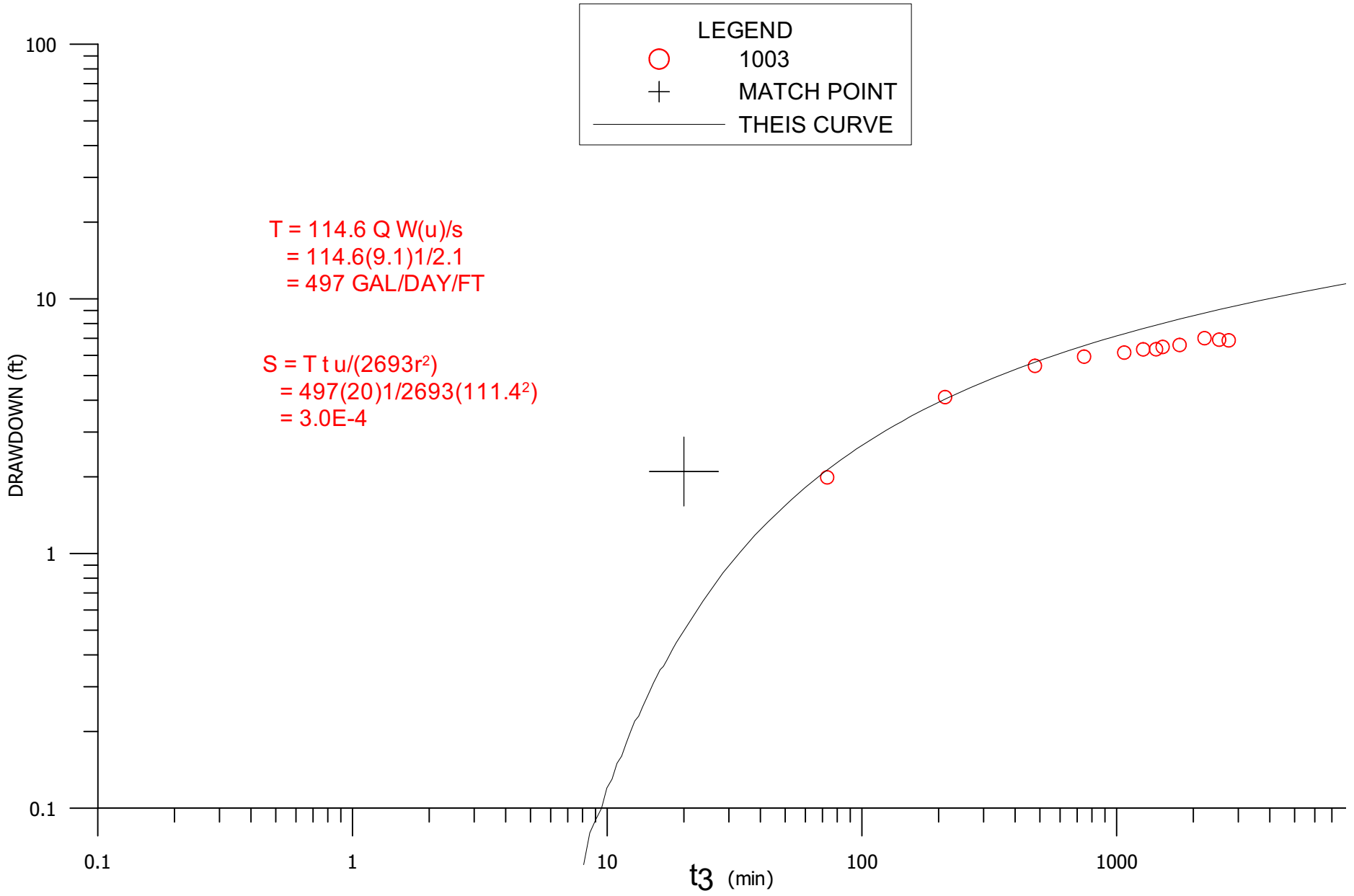


FIGURE 5-14. DRAWDOWN IN OBSERVATION WELL 1003, LOG-LOG

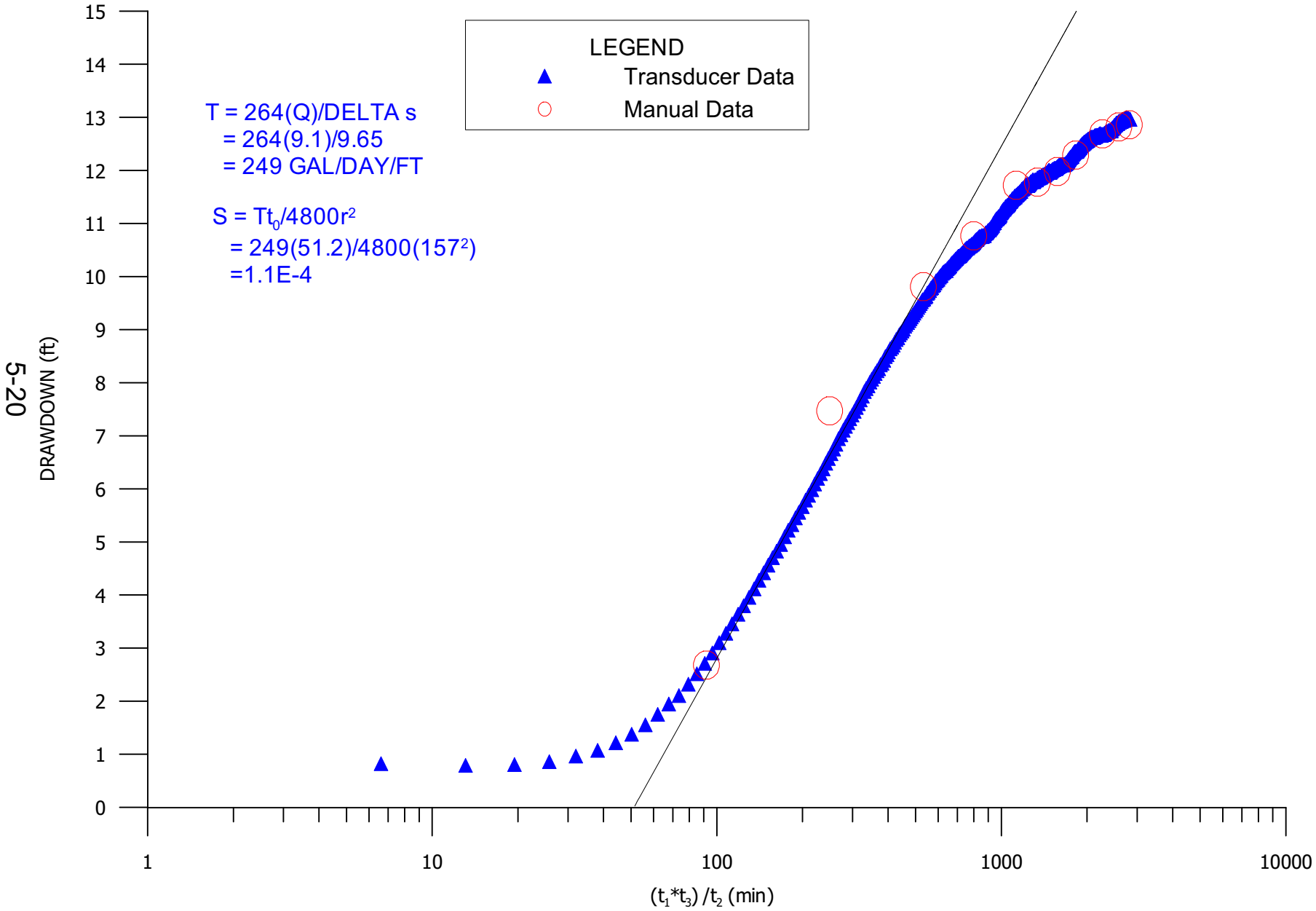


FIGURE 5-15. DRAWDOWN IN OBSERVATION WELL 1005

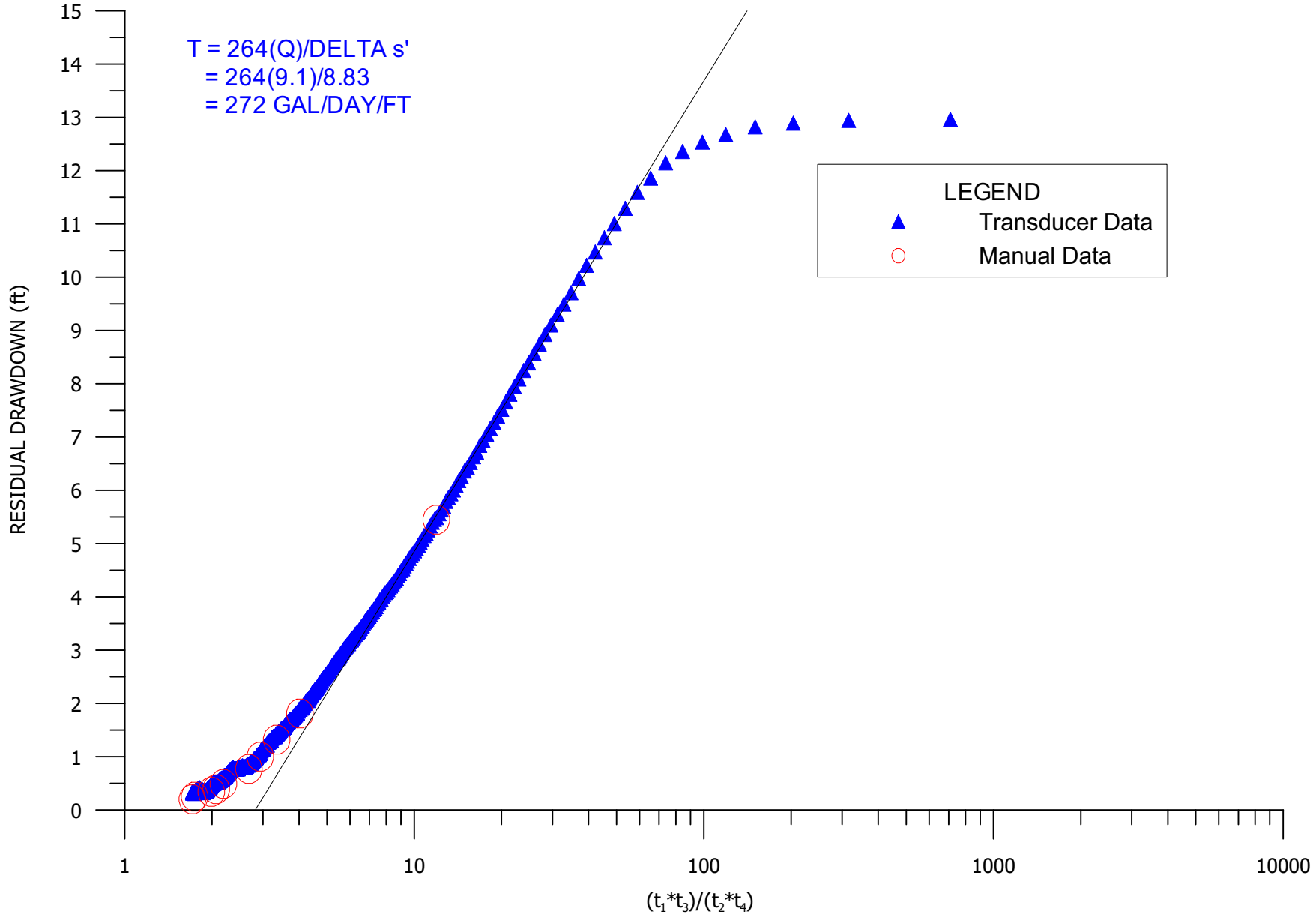


FIGURE 5-16. RECOVERY IN OBSERVATION WELL 1005

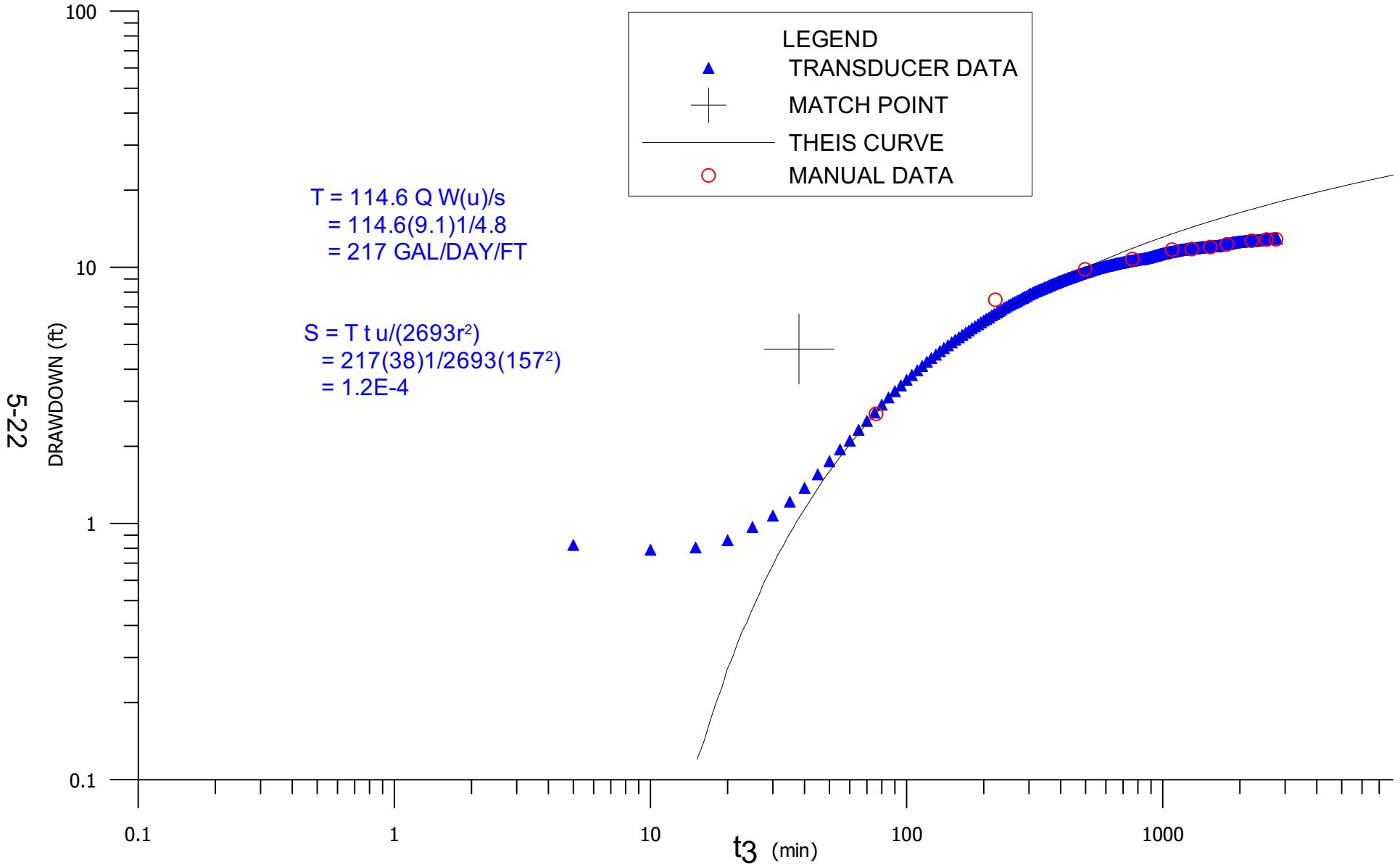


FIGURE 5-17. DRAWDOWN IN OBSERVATION WELL 1005, LOG-LOG

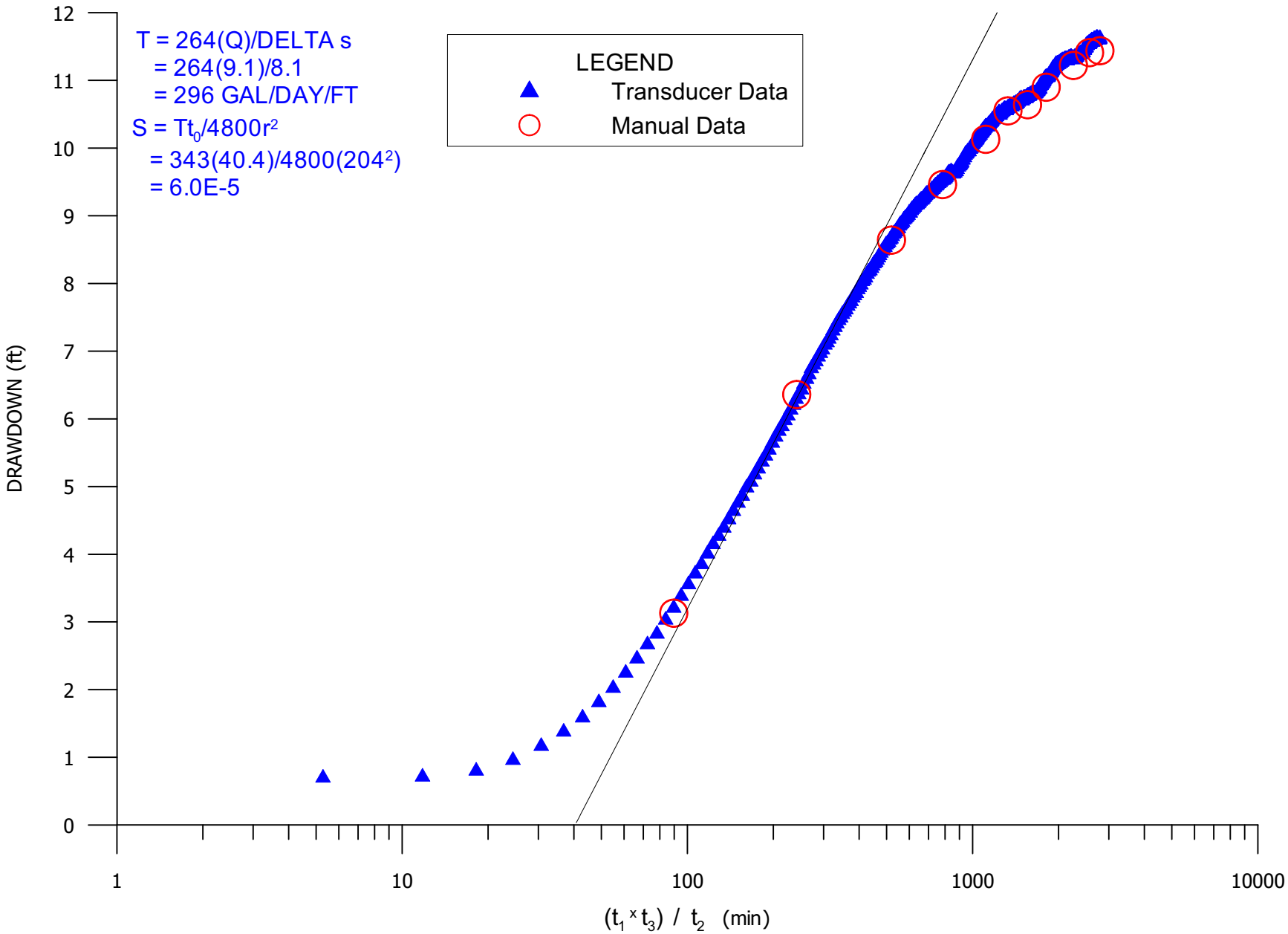


FIGURE 5-18. DRAWDOWN IN OBSERVATION WELL 1087

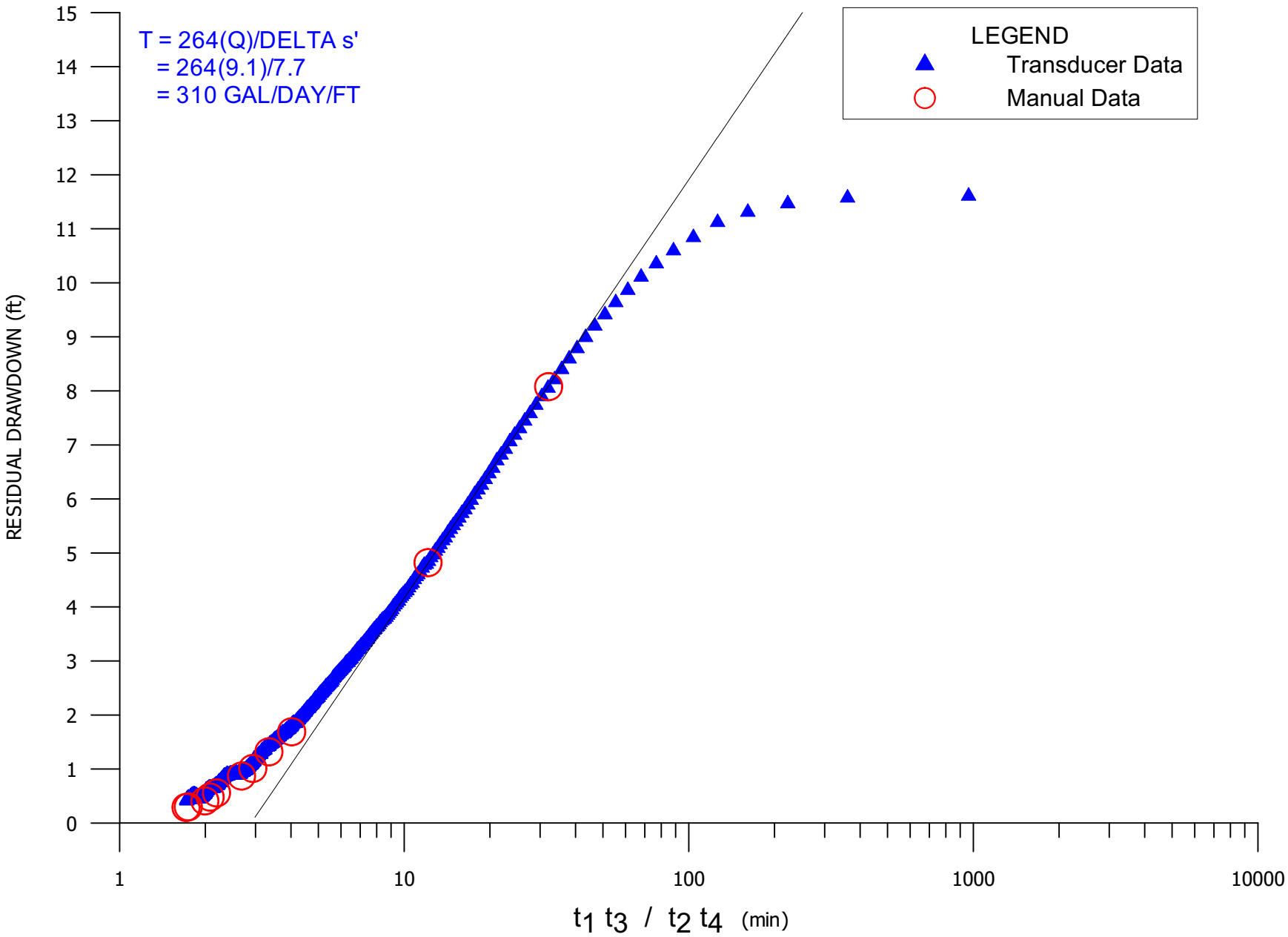


FIGURE 5-19. RECOVERY IN OBSERVATION WELL 1087

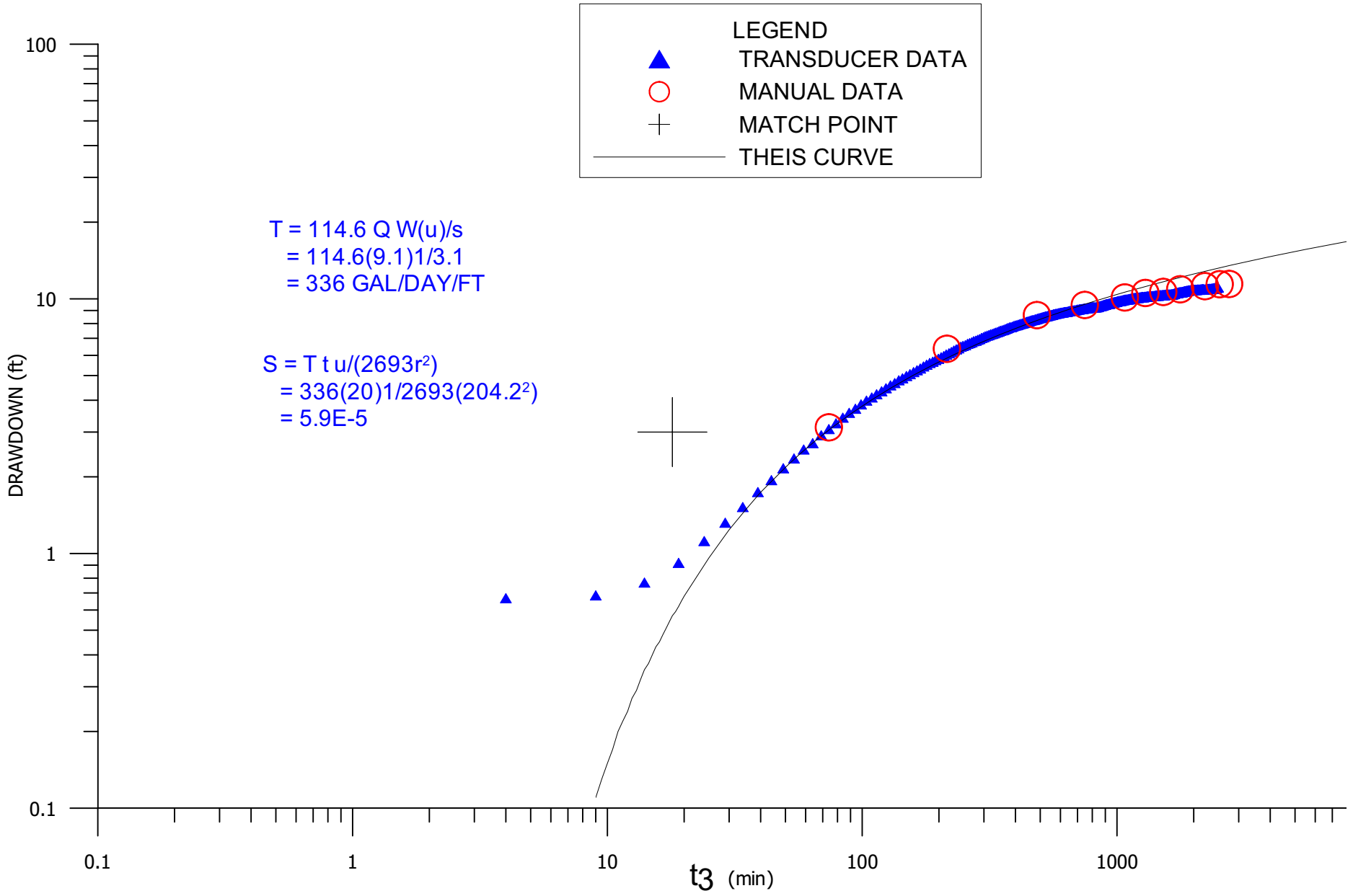


FIGURE 5-20. DRAWDOWN IN OBSERVATION WELL 1087, LOG-LOG

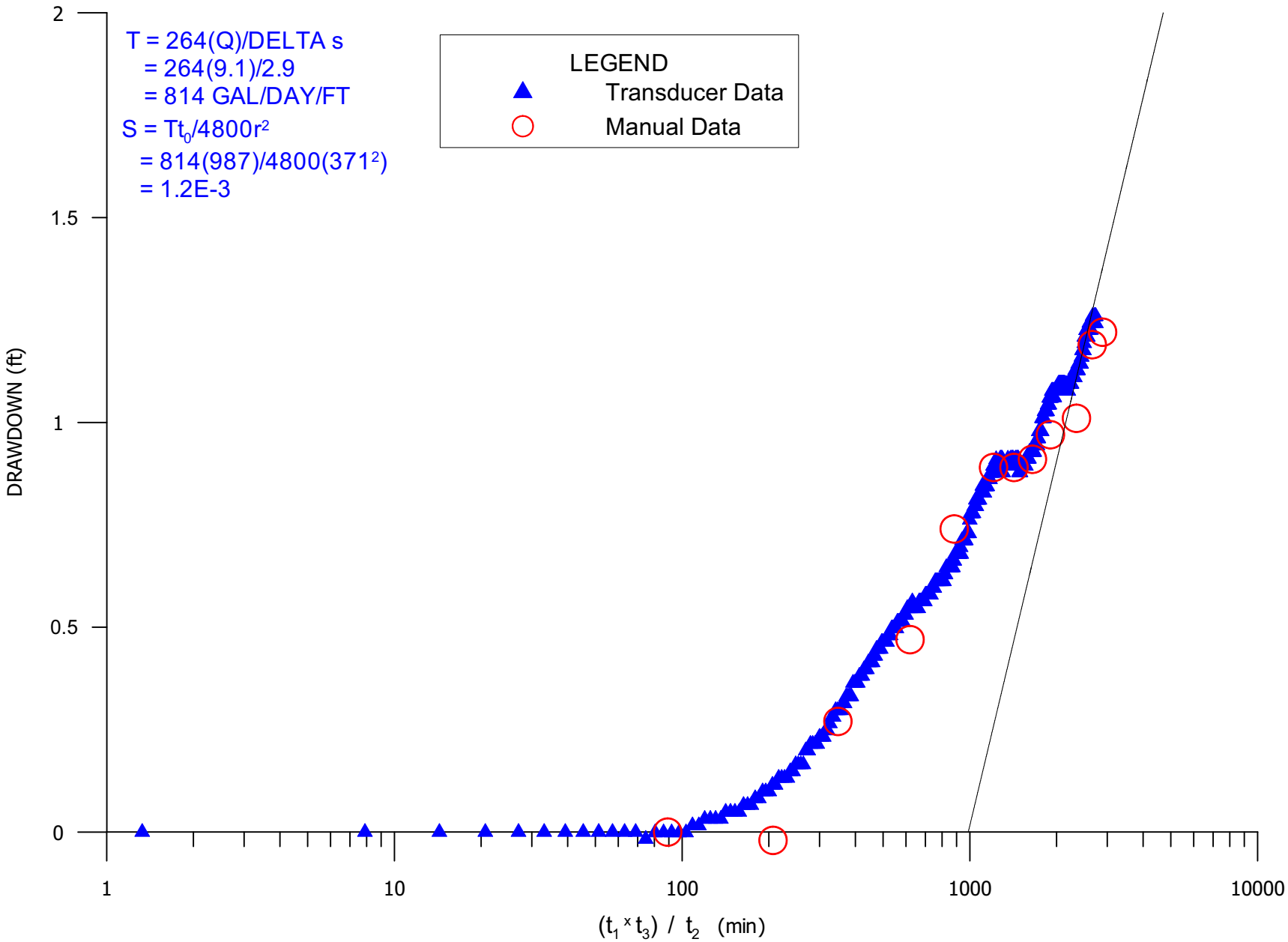


FIGURE 5-21. DRAWDOWN IN OBSERVATION WELL 1011

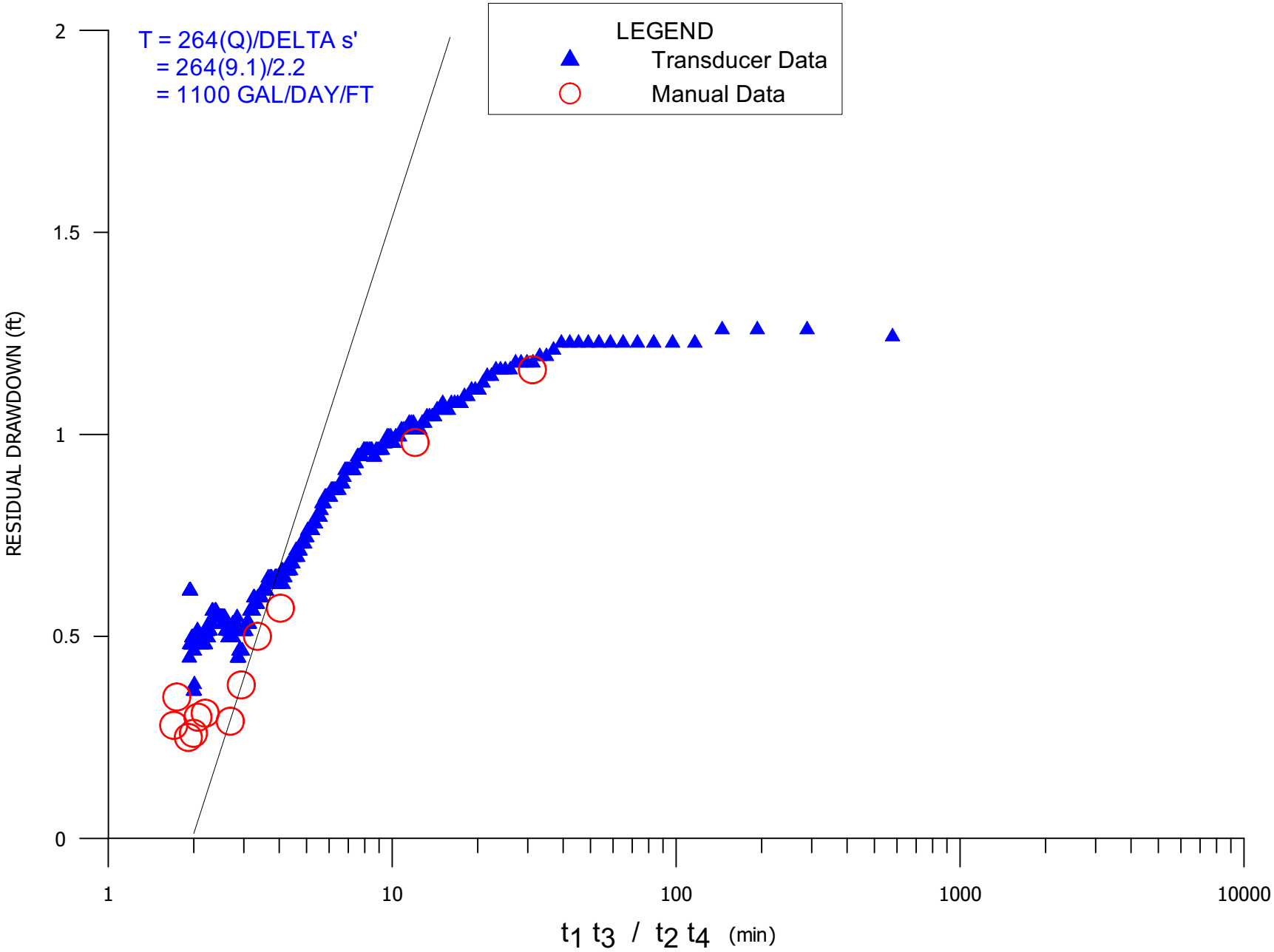


FIGURE 5-22. RECOVERY IN OBSERVATION WELL 1011

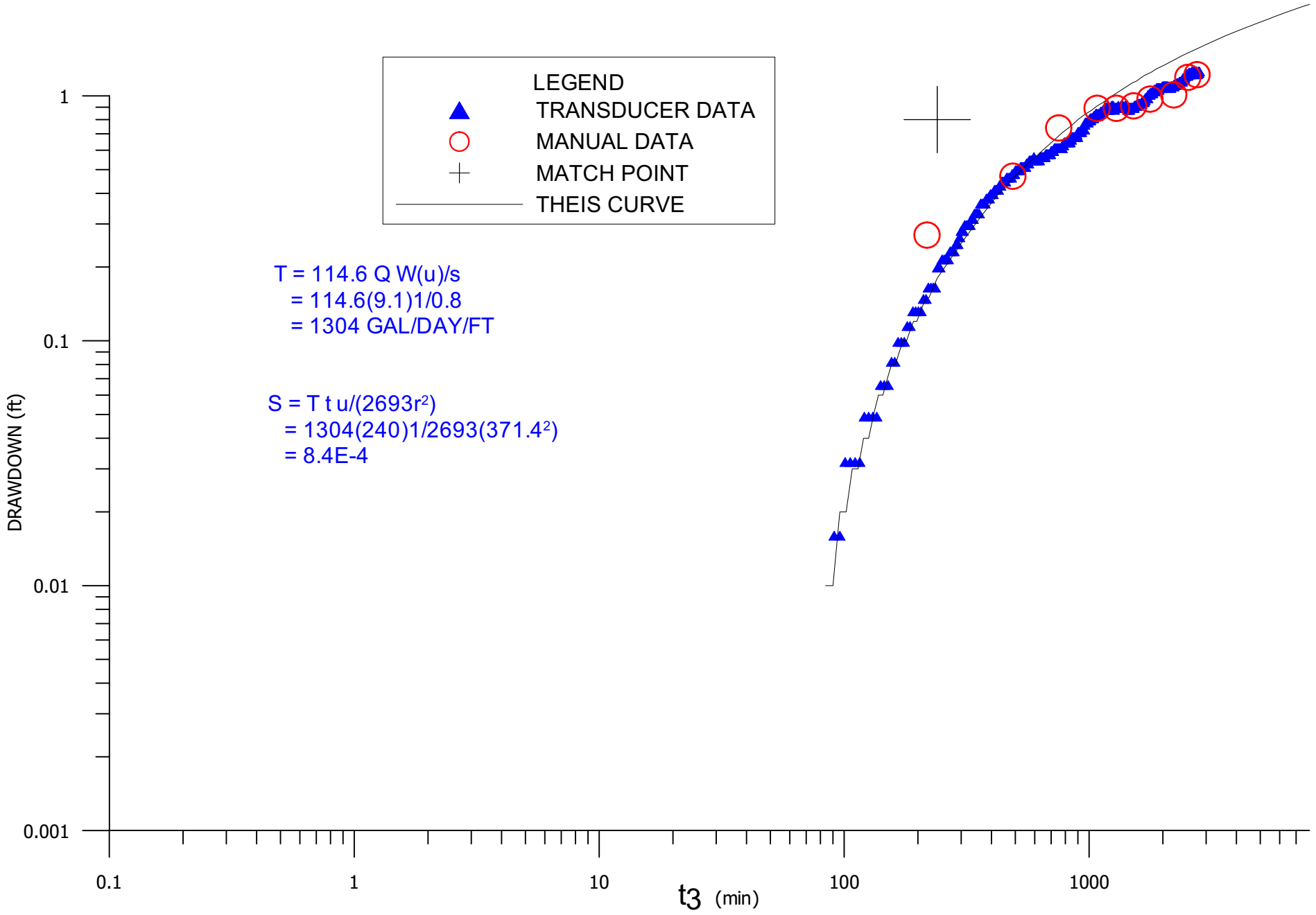
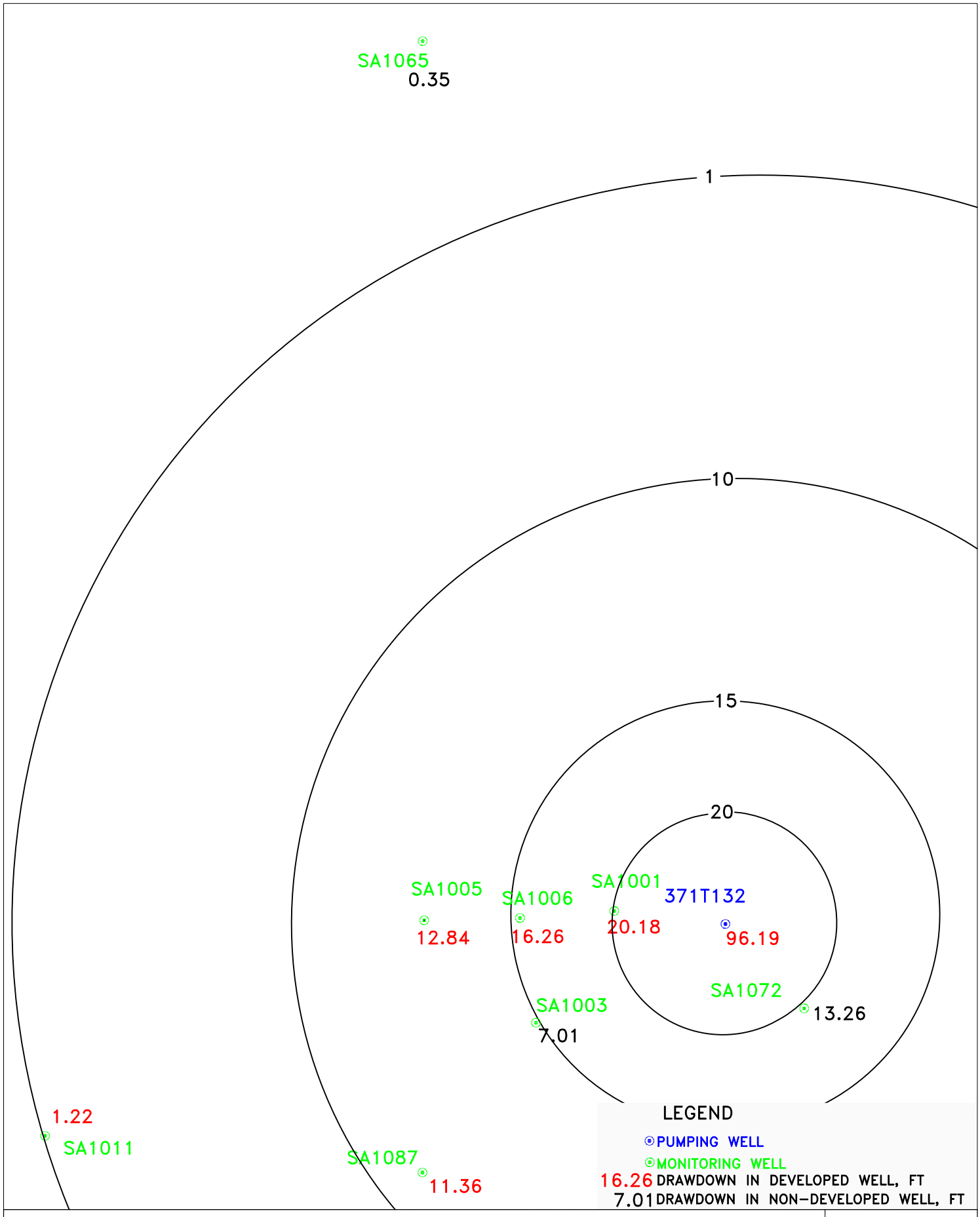


FIGURE 5-23. DRAWDOWN IN OBSERVATION WELL 1011, LOG-LOG



CUE RESOURCES LTD: YUTY URANIUM PROJECT	DATE: 3/29/11
FIGURE 5-24. DRAWDOWN MAP IN THE SAN MIGUEL AQUIFER AT THE END OF THE PUMP TEST	SCALE: 1 in= 20 m
	PAGE: 5-29

6.0 PREDICTED RECOVERY AND INJECTION RATES

The partial penetrating option in USGS program WTAQ, 1999 was used to calculate the partial penetrating effects from the recovery or injection well being evaluated. Also, partial penetrating conditions were used for adjacent wells to account for their influence on the particular well being evaluated. Two patterns were analyzed and the resulting recovery and injection rates were compared. Figure 6-1 presents the layout of the two patterns that were analyzed, Pattern A and Pattern B. These two patterns were selected because Pattern A represents a typical five spot pattern, and Pattern B presents a more likely ratio of injection to recovery well. Several simulations were run on each well field pattern varying the injection and recovery rates in each simulation until the maximum drawdown of the recovery well and the maximum injection rate of the injection well were obtained. The maximum recovery drawdown is reached prior to the maximum injection rate in Pattern A and, therefore, limits the injection rate due to the one percent bleed rate used in these simulations. Table 6-1 presents the input parameters that were used in the Yuty well simulations. A sand thickness of 34 meters (112ft) was used in the simulations rather than the total aquifer thickness because the sandstone below the base of the shale at 80 meters in well 371T132 and above the shale at 115.5 meter is expected to respond as the ore aquifer. These two shale units should separate the ore sand aquifer from other permeable units. The ore is located in this upper portion of the sand at well 371T132. Therefore, in this analysis a sand thickness of 34 meters (112 feet) was used for the ore bearing sand. The logs of the sand in the ore area appear to be better developed than the average sand over the tested interval. Therefore the average transmissivity was used for calculating the hydraulic conductivity for the ore sand aquifer. Table 6-1 presents the aquifer properties used in the simulations. A horizontal hydraulic conductivity of 0.10 m/day (0.34 ft/day) was used because it is thought to be most representative of the San Miguel aquifer in this area. The well completion interval of 4 meters (13 feet) was selected at the interval of the sand where well 371T132 contain its best mineralization.

Table 6-2 presents the results from the two wellfield pattern simulations. As shown in Table 6-2 the ratio of injection to recovery wells for Patterns A and B were 4.0 and 2.0 respectively. It was found that the recovery rate was the limiting factor for Patterns A and B. Table 6-2 lists the maximum recovery and injection rates using a bleed rate of 1%.

The recovery wells and injection wells in Pattern A were determined to have a maximum recovery rate of 29.5 L/min (7.8 gpm) with an injection rate of 7.30 L/min (1.93 gpm) for each of the four injection wells. The Pattern A injection well water-level rise, as determined by the maximum recovery rate, was 18 meters (59 feet) which is well below the maximum injection head of 58 meters (190 feet) shown in Table 6-1.

The recovery and injection wells in Pattern B were determined to have a maximum recovery rate of 29.9 L/min (7.9 gpm) with a corresponding injection rate of 14.76 L/min (3.9 gpm) for each of the two injection wells. The Pattern B injection well water level rise as determined by the maximum recovery rate was 39 meters (127 feet) which is below the maximum injection head of 58 meters (190 feet) shown in Table 6-1.

By examining the results of these simulations, it is determined that a ratio of injection wells to recovery wells of two or less will result in the recovery rate being the limiting rate. Therefore the Yuty ISR project is expected to be controlled by the maximum recovery rate not by the maximum injection rate. For a well field with a ratio of less than two injection wells per recovery well, the injection rate could become the limiting rate if the injection well efficiency decreases with time.

These predicted recovery and injection rates are very similar to two Powder River Basin, Wyoming sites. These rates are on the lower side of the rates for the ISR uranium mines in the Powder River Basin. One of the commercially mined ISR units that Hydro has worked with has very similar rates. This indicates that the Yuty project should be mineable by the ISR process based on the predicted recovery and injection rates.

TABLE 6-1. AQUFER AND WELL PROPERTIES FOR YUTY WELLS

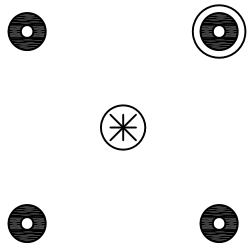
	SAND THICKNESS		INPUT DATA			COMPLETION INTERVEL				MAX DRAWDOWN		MAX. INJE CTION HEAD*	
			Kh	Kv	S	BOTTOM	BOTTOM	TOP	TOP				
DESCRIPTION	(M)	(FT)	(FT/DAY)	(FT/DAY)		(M FROM TOP OF SAND)	(FT FROM TOP OF SAND)	(M FROM TOP OF SAND)	(FT FROM TOP OF SAND)	(M)	(FT)	(M)	(FT)
PATTERN A	34	112	0.34	0.034	2.0E-04	12.5	41	8.5	28	80	262	58	190
PATTERN B	34	112	0.34	0.034	2.0E-04	12.5	41	8.5	28	80	262	58	190

NOTE: *= 50% efficiency is accounted for in these heads with a maximum well head pressure of 150 psi.
M = meters, FT = feet

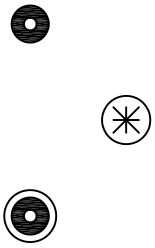
TABLE 6-2. PREDICTED RECOVERY AND INJECTION RATES FOR THE YUTY WELLS (1% BLEED)

						Recovery Well				Injection Well	
	Number of Wells		Ratio	Recovery Rate		Drawdown		Injection Rate		Water-Level Rise	
Description	Recovery	Injection	Inj/Rec	GPM	LPM	(M)	(FT)	GPM	LPM	(M)	(FT)
Pattern A	1	4	4.0	7.8	29.5	80	262	1.93	7.3	18	59
Pattern B	1	2	2.0	7.9	29.9	80	262	3.91	14.76	39	127

NOTE: Maximum injection head, with a maximum well head pressure of 150PSI
M=meters, FT=feet



PATTERN A



PATTERN B

LEGEND

INJECTION WELL

RECOVERY WELL

INJECTION WELL WHERE DRAWDOWN WAS CALCULATED

RECOVERY WELL WHERE DRAWDOWN WAS CALCULATED

SCALE 1"=100'

DATE: 3/30/2011

FIGURE 6-1. WELL PATTERNS FOR INJECTION AND RECOVERY RATES

7.0 HYDRO-ENGINEERING'S EXPERIENCE

Hydro-Engineering (LLC) was formed in 1977 to provide consulting services in hydrology and related areas of engineering. It is our aim to maintain a high level of technical competence and a good understanding of state and federal regulations which govern water and related areas.

HYDRO is very experienced in conducting pump tests for evaluating aquifer properties at ISR uranium operations. We first did pump tests in the late 70's for Ogle Petroleum at Bison Basin and the Teton Exploration site near Glenrock. Tests on the North Platte Uranium Resources site and the North Butte and Ruth sites for Uranerz have been conducted and several multi-well pump tests have been conducted for Power Resources and Rio Algom. A deep disposal well was designed and permitted in 2004 for the Bill Smith operation. HYDRO developed the hydrologic sections for the Nichols Ranch permit for Uranerz Energy Corporation.

A partial list of companies which HYDRO has conducted projects for follows:

Rio Algom Mining (solution mining)
Power Resources, Inc. (solution mining)
Cameco Resources (solution mining)
Pathfinder Mines Corporation
CONOCO
Getty Oil Company
United Nuclear-Homestake Partners
Homestake Mining Company
Utah International, Inc.
Western Coal Gasification
American Nuclear Corporation
Teton Exploration Drilling Company, Inc. (solution mining)
OPI – Western Joint Venture (solution mining)
Phillips Uranium Corporation
Atlantic Richfield Company
Union Carbide Corporation
Bridger Coal Mine
Barrick Gold
Marigold Mining Company
Trapper Mining
Plateau Resources
Gold Corp
Uranerz Energy Corporation (solution mining)
Strathmore Resources

8.0 REFERENCES

HEALIX Consulting, May 27 2009, Technical Report on the Yuty Uranium Project, Republic of Paraguay, Consulting Report for CUE Recourses LTD

Scott Wilson Roscoe Postle Associates INC, May 15 2008, Technical Report on the Yuty Uranium Project, Paraguay, Consulting Report for CUE Recourses LTD

Appendix A
Well 371T132 Pump Tests Tabulated Data

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TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/18/11	16:51	19.43	3/18/11	21:16	19.81	3/19/11	1:41	19.88	3/19/11	6:06	19.75	3/19/11	10:31	19.86
3/18/11	16:56	19.54	3/18/11	21:21	19.81	3/19/11	1:46	19.88	3/19/11	6:11	19.75	3/19/11	10:36	19.86
3/18/11	17:01	19.71	3/18/11	21:26	19.81	3/19/11	1:51	19.88	3/19/11	6:16	19.75	3/19/11	10:41	19.86
3/18/11	17:06	19.76	3/18/11	21:31	19.81	3/19/11	1:56	19.88	3/19/11	6:21	19.81	3/19/11	10:46	19.86
3/18/11	17:11	19.82	3/18/11	21:36	19.81	3/19/11	2:01	19.86	3/19/11	6:26	19.75	3/19/11	10:51	19.86
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3/18/11	17:21	19.88	3/18/11	21:46	19.81	3/19/11	2:11	19.86	3/19/11	6:36	19.75	3/19/11	11:01	19.84
3/18/11	17:26	19.93	3/18/11	21:51	19.81	3/19/11	2:16	19.86	3/19/11	6:41	19.75	3/19/11	11:06	19.84
3/18/11	17:31	19.93	3/18/11	21:56	19.81	3/19/11	2:21	19.86	3/19/11	6:46	19.75	3/19/11	11:11	19.84
3/18/11	17:36	19.93	3/18/11	22:01	19.85	3/19/11	2:26	19.86	3/19/11	6:51	19.75	3/19/11	11:16	19.84
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3/18/11	17:46	19.99	3/18/11	22:11	19.85	3/19/11	2:36	19.86	3/19/11	7:01	19.75	3/19/11	11:26	19.84
3/18/11	17:51	19.99	3/18/11	22:16	19.85	3/19/11	2:41	19.86	3/19/11	7:06	19.75	3/19/11	11:31	19.84
3/18/11	17:56	19.99	3/18/11	22:21	19.85	3/19/11	2:46	19.86	3/19/11	7:11	19.75	3/19/11	11:36	20.51
3/18/11	18:01	19.94	3/18/11	22:26	19.85	3/19/11	2:51	19.86	3/19/11	7:16	19.75	3/19/11	11:41	19.84
3/18/11	18:06	19.94	3/18/11	22:31	19.85	3/19/11	2:56	19.86	3/19/11	7:21	19.75	3/19/11	11:44	19.84
3/18/11	18:11	19.94	3/18/11	22:36	19.85	3/19/11	3:01	19.86	3/19/11	7:26	19.75	3/19/11	11:45	19.84
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3/18/11	19:16	19.99	3/18/11	23:41	19.86	3/19/11	4:06	19.79	3/19/11	8:31	19.84	3/19/11	11:58	19.84
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3/18/11	19:31	19.76	3/18/11	23:56	19.86	3/19/11	4:21	19.79	3/19/11	8:46	19.84	3/19/11	12:01	19.96
3/18/11	19:36	20.15	3/19/11	0:01	19.88	3/19/11	4:26	19.79	3/19/11	8:51	19.79	3/19/11	12:02	19.96
3/18/11	19:41	19.71	3/19/11	0:06	19.88	3/19/11	4:31	19.79	3/19/11	8:56	19.84	3/19/11	12:03	19.96
3/18/11	19:46	19.76	3/19/11	0:11	19.88	3/19/11	4:36	19.79	3/19/11	9:01	19.86	3/19/11	12:04	19.96
3/18/11	19:51	19.76	3/19/11	0:16	19.88	3/19/11	4:41	19.79	3/19/11	9:06	19.86	3/19/11	12:05	19.96
3/18/11	19:56	19.76	3/19/11	0:21	19.88	3/19/11	4:46	19.79	3/19/11	9:11	19.86	3/19/11	12:06	19.96
3/18/11	20:01	19.78	3/19/11	0:26	19.88	3/19/11	4:51	19.79	3/19/11	9:16	19.86	3/19/11	12:07	19.96
3/18/11	20:06	19.78	3/19/11	0:31	19.88	3/19/11	4:56	19.79	3/19/11	9:21	19.80	3/19/11	12:08	19.96
3/18/11	20:11	19.78	3/19/11	0:36	19.88	3/19/11	5:01	19.81	3/19/11	9:26	19.86	3/19/11	12:09	19.96
3/18/11	20:16	19.78	3/19/11	0:41	19.88	3/19/11	5:06	19.81	3/19/11	9:31	19.80	3/19/11	12:10	19.96
3/18/11	20:21	19.78	3/19/11	0:46	19.88	3/19/11	5:11	19.81	3/19/11	9:36	19.86	3/19/11	12:11	20.01
3/18/11	20:26	19.78	3/19/11	0:51	19.88	3/19/11	5:16	19.81	3/19/11	9:41	19.86	3/19/11	12:12	20.01
3/18/11	20:31	19.78	3/19/11	0:56	19.88	3/19/11	5:21	19.81	3/19/11	9:46	19.86	3/19/11	12:13	19.96
3/18/11	20:36	19.78	3/19/11	1:01	19.88	3/19/11	5:26	19.75	3/19/11	9:51	19.86	3/19/11	12:14	20.01
3/18/11	20:41	19.78	3/19/11	1:06	19.88	3/19/11	5:31	19.81	3/19/11	9:56	19.86	3/19/11	12:15	19.96
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3/18/11	20:56	19.78	3/19/11	1:21	19.88	3/19/11	5:46	19.81	3/19/11	10:11	19.86	3/19/11	12:18	19.96
3/18/11	21:01	19.81	3/19/11	1:26	19.88	3/19/11	5:51	19.75	3/19/11	10:16	19.86	3/19/11	12:19	19.96
3/18/11	21:06	19.81	3/19/11	1:31	19.88	3/19/11	5:56	19.75	3/19/11	10:21	19.86	3/19/11	12:20	20.01
3/18/11	21:11	19.81	3/19/11	1:36	19.88	3/19/11	6:01	19.81	3/19/11	10:26	19.86	3/19/11	12:21	19.96

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/19/11	12:22	20.01	3/19/11	13:15	19.98	3/19/11	14:08	33.67	3/19/11	15:01	45.60	3/19/11	17:22	83.32
3/19/11	12:23	20.01	3/19/11	13:16	19.98	3/19/11	14:09	46.11	3/19/11	15:02	44.04	3/19/11	17:23	84.04
3/19/11	12:24	19.96	3/19/11	13:17	19.98	3/19/11	14:10	50.95	3/19/11	15:03	42.54	3/19/11	17:24	84.71
3/19/11	12:25	21.57	3/19/11	13:18	19.98	3/19/11	14:11	51.72	3/19/11	15:04	41.21	3/19/11	17:25	85.37
3/19/11	12:26	22.57	3/19/11	13:19	19.98	3/19/11	14:12	52.67	3/19/11	15:05	39.99	3/19/11	17:26	85.93
3/19/11	12:27	23.40	3/19/11	13:20	19.98	3/19/11	14:13	54.00	3/19/11	15:06	38.82	3/19/11	17:27	86.49
3/19/11	12:28	22.68	3/19/11	13:21	19.98	3/19/11	14:14	55.67	3/19/11	15:07	37.71	3/19/11	17:28	86.93
3/19/11	12:29	22.68	3/19/11	13:22	19.98	3/19/11	14:15	57.22	3/19/11	15:08	36.76	3/19/11	17:29	87.37
3/19/11	12:30	21.40	3/19/11	13:23	19.98	3/19/11	14:16	58.67	3/19/11	15:09	35.82	3/19/11	17:30	87.76
3/19/11	12:31	21.90	3/19/11	13:24	19.98	3/19/11	14:17	59.67	3/19/11	15:10	34.93	3/19/11	17:31	88.15
3/19/11	12:32	22.07	3/19/11	13:25	19.98	3/19/11	14:18	60.78	3/19/11	15:11	34.10	3/19/11	17:32	88.49
3/19/11	12:33	20.40	3/19/11	13:26	19.98	3/19/11	14:19	61.61	3/19/11	15:12	33.37	3/19/11	17:33	88.87
3/19/11	12:34	20.35	3/19/11	13:27	19.98	3/19/11	14:20	62.50	3/19/11	15:13	32.65	3/19/11	17:34	89.32
3/19/11	12:35	21.29	3/19/11	13:28	19.98	3/19/11	14:21	63.34	3/19/11	15:14	32.04	3/19/11	17:35	89.71
3/19/11	12:36	21.74	3/19/11	13:29	19.98	3/19/11	14:22	64.11	3/19/11	15:15	31.37	3/19/11	17:36	89.99
3/19/11	12:37	22.01	3/19/11	13:30	19.98	3/19/11	14:23	64.67	3/19/11	15:16	30.82	3/19/11	17:37	91.15
3/19/11	12:38	21.07	3/19/11	13:31	19.98	3/19/11	14:24	65.28	3/19/11	15:17	30.32	3/19/11	17:38	92.04
3/19/11	12:39	21.40	3/19/11	13:32	19.98	3/19/11	14:25	65.95	3/19/11	15:18	29.76	3/19/11	17:39	92.65
3/19/11	12:40	20.12	3/19/11	13:33	19.98	3/19/11	14:26	66.45	3/19/11	15:19	29.32	3/19/11	17:40	93.10
3/19/11	12:41	19.96	3/19/11	13:34	19.98	3/19/11	14:27	67.11	3/19/11	15:20	28.87	3/19/11	17:41	93.49
3/19/11	12:42	19.96	3/19/11	13:35	20.04	3/19/11	14:28	67.72	3/19/11	15:21	28.49	3/19/11	17:42	93.76
3/19/11	12:43	20.01	3/19/11	13:36	19.98	3/19/11	14:29	68.17	3/19/11	15:22	28.10	3/19/11	17:43	94.15
3/19/11	12:44	19.90	3/19/11	13:37	19.98	3/19/11	14:30	68.61	3/19/11	15:23	27.87	3/19/11	17:44	94.43
3/19/11	12:45	20.18	3/19/11	13:38	19.98	3/19/11	14:31	69.00	3/19/11	15:24	27.54	3/19/11	17:45	94.65
3/19/11	12:46	19.90	3/19/11	13:39	19.98	3/19/11	14:32	69.45	3/19/11	15:25	27.04	3/19/11	17:46	94.87
3/19/11	12:47	19.90	3/19/11	13:40	19.98	3/19/11	14:33	69.78	3/19/11	15:26	27.04	3/19/11	17:47	95.10
3/19/11	12:48	19.96	3/19/11	13:41	19.98	3/19/11	14:34	70.17	3/19/11	16:55	17.39	3/19/11	17:48	95.37
3/19/11	12:49	19.96	3/19/11	13:42	19.98	3/19/11	14:35	70.56	3/19/11	16:56	17.78	3/19/11	17:49	95.54
3/19/11	12:50	19.96	3/19/11	13:43	19.98	3/19/11	14:36	71.22	3/19/11	16:57	18.28	3/19/11	17:50	95.76
3/19/11	12:51	19.96	3/19/11	13:44	19.98	3/19/11	14:37	72.11	3/19/11	16:58	18.17	3/19/11	17:51	95.87
3/19/11	12:52	20.01	3/19/11	13:45	19.98	3/19/11	14:38	73.06	3/19/11	16:59	18.50	3/19/11	17:52	96.04
3/19/11	12:53	20.01	3/19/11	13:46	19.98	3/19/11	14:39	75.56	3/19/11	17:00	22.54	3/19/11	17:53	96.32
3/19/11	12:54	20.01	3/19/11	13:47	19.98	3/19/11	14:40	74.95	3/19/11	17:01	32.93	3/19/11	17:54	96.71
3/19/11	12:55	20.01	3/19/11	13:48	19.98	3/19/11	14:41	73.56	3/19/11	17:02	40.99	3/19/11	17:55	97.04
3/19/11	12:56	20.01	3/19/11	13:49	19.98	3/19/11	14:42	73.06	3/19/11	17:03	45.82	3/19/11	17:56	97.10
3/19/11	12:57	20.01	3/19/11	13:50	19.98	3/19/11	14:43	73.56	3/19/11	17:04	49.82	3/19/11	17:57	97.99
3/19/11	12:58	20.01	3/19/11	13:51	20.04	3/19/11	14:44	74.95	3/19/11	17:05	53.71	3/19/11	17:58	97.65
3/19/11	12:59	20.01	3/19/11	13:52	19.98	3/19/11	14:45	76.28	3/19/11	17:06	57.10	3/19/11	17:59	97.82
3/19/11	13:00	19.98	3/19/11	13:53	19.98	3/19/11	14:46	77.11	3/19/11	17:07	59.99	3/19/11	18:00	98.08
3/19/11	13:01	19.98	3/19/11	13:54	19.98	3/19/11	14:47	77.95	3/19/11	17:08	62.60	3/19/11	18:01	98.25
3/19/11	13:02	19.98	3/19/11	13:55	19.98	3/19/11	14:48	78.84	3/19/11	17:09	64.71	3/19/11	18:02	98.52
3/19/11	13:03	19.98	3/19/11	13:56	19.98	3/19/11	14:49	79.28	3/19/11	17:10	66.82	3/19/11	18:03	98.69
3/19/11	13:04	19.98	3/19/11	13:57	19.98	3/19/11	14:50	80.28	3/19/11	17:11	68.54	3/19/11	18:04	98.75
3/19/11	13:05	19.98	3/19/11	13:58	19.98	3/19/11	14:51	71.45	3/19/11	17:12	70.54	3/19/11	18:05	98.80
3/19/11	13:06	19.98	3/19/11	13:59	19.98	3/19/11	14:52	65.67	3/19/11	17:13	72.49	3/19/11	18:06	98.97
3/19/11	13:07	19.98	3/19/11	14:00	19.95	3/19/11	14:53	63.06	3/19/11	17:14	74.21	3/19/11	18:07	98.97
3/19/11	13:08	19.98	3/19/11	14:01	19.95	3/19/11	14:54	60.50	3/19/11	17:15	75.76	3/19/11	18:08	99.02
3/19/11	13:09	19.98	3/19/11	14:02	19.95	3/19/11	14:55	57.95	3/19/11	17:16	77.15	3/19/11	18:09	99.14
3/19/11	13:10	19.98	3/19/11	14:03	19.95	3/19/11	14:56	55.50	3/19/11	17:17	78.43	3/19/11	18:10	99.14
3/19/11	13:11	19.98	3/19/11	14:04	19.95	3/19/11	14:57	53.22	3/19/11	17:18	79.60	3/19/11	18:11	99.30
3/19/11	13:12	19.98	3/19/11	14:05	19.95	3/19/11	14:58	51.06	3/19/11	17:19	80.60	3/19/11	18:12	99.36
3/19/11	13:13	19.98	3/19/11	14:06	19.95	3/19/11	14:59	49.11	3/19/11	17:20	81.60	3/19/11	18:13	99.69
3/19/11	13:14	20.04	3/19/11	14:07	22.00	3/19/11	15:00	47.26	3/19/11	17:21	82.49	3/19/11	18:14	99.52

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/19/11	18:15	99.69	3/19/11	19:08	102.69	3/19/11	20:01	104.86	3/19/11	20:54	107.97	3/19/11	21:47	107.65
3/19/11	18:16	99.86	3/19/11	19:09	102.69	3/19/11	20:02	104.97	3/19/11	20:55	108.02	3/19/11	21:48	107.71
3/19/11	18:17	100.02	3/19/11	19:10	102.75	3/19/11	20:03	105.30	3/19/11	20:56	107.91	3/19/11	21:49	107.54
3/19/11	18:18	100.08	3/19/11	19:11	102.86	3/19/11	20:04	105.52	3/19/11	20:57	107.91	3/19/11	21:50	107.37
3/19/11	18:19	100.14	3/19/11	19:12	102.91	3/19/11	20:05	105.69	3/19/11	20:58	107.75	3/19/11	21:51	107.37
3/19/11	18:20	100.30	3/19/11	19:13	103.02	3/19/11	20:06	105.86	3/19/11	20:59	107.75	3/19/11	21:52	107.43
3/19/11	18:21	100.36	3/19/11	19:14	102.97	3/19/11	20:07	105.91	3/19/11	21:00	107.65	3/19/11	21:53	107.37
3/19/11	18:22	100.41	3/19/11	19:15	102.86	3/19/11	20:08	105.97	3/19/11	21:01	107.65	3/19/11	21:54	107.26
3/19/11	18:23	100.52	3/19/11	19:16	102.80	3/19/11	20:09	106.19	3/19/11	21:02	107.60	3/19/11	21:55	107.32
3/19/11	18:24	100.58	3/19/11	19:17	102.69	3/19/11	20:10	106.36	3/19/11	21:03	107.65	3/19/11	21:56	107.26
3/19/11	18:25	100.58	3/19/11	19:18	102.69	3/19/11	20:11	106.36	3/19/11	21:04	107.49	3/19/11	21:57	107.32
3/19/11	18:26	100.75	3/19/11	19:19	102.52	3/19/11	20:12	106.58	3/19/11	21:05	107.54	3/19/11	21:58	107.26
3/19/11	18:27	100.86	3/19/11	19:20	102.36	3/19/11	20:13	106.30	3/19/11	21:06	107.54	3/19/11	21:59	107.21
3/19/11	18:28	100.86	3/19/11	19:21	102.08	3/19/11	20:14	106.19	3/19/11	21:07	107.54	3/19/11	22:00	107.22
3/19/11	18:29	100.86	3/19/11	19:22	101.80	3/19/11	20:15	106.30	3/19/11	21:08	107.49	3/19/11	22:01	107.22
3/19/11	18:30	100.91	3/19/11	19:23	101.97	3/19/11	20:16	106.41	3/19/11	21:09	107.37	3/19/11	22:02	107.22
3/19/11	18:31	100.86	3/19/11	19:24	102.02	3/19/11	20:17	106.41	3/19/11	21:10	107.43	3/19/11	22:03	107.28
3/19/11	18:32	100.91	3/19/11	19:25	102.36	3/19/11	20:18	106.41	3/19/11	21:11	107.43	3/19/11	22:04	107.22
3/19/11	18:33	100.97	3/19/11	19:26	102.64	3/19/11	20:19	106.52	3/19/11	21:12	107.26	3/19/11	22:05	107.34
3/19/11	18:34	101.02	3/19/11	19:27	103.02	3/19/11	20:20	106.30	3/19/11	21:13	107.32	3/19/11	22:06	107.34
3/19/11	18:35	101.14	3/19/11	19:28	103.25	3/19/11	20:21	106.36	3/19/11	21:14	107.37	3/19/11	22:07	107.34
3/19/11	18:36	101.08	3/19/11	19:29	103.36	3/19/11	20:22	106.36	3/19/11	21:15	107.32	3/19/11	22:08	107.28
3/19/11	18:37	101.02	3/19/11	19:30	103.30	3/19/11	20:23	106.36	3/19/11	21:16	107.32	3/19/11	22:09	107.34
3/19/11	18:38	101.14	3/19/11	19:31	103.25	3/19/11	20:24	106.25	3/19/11	21:17	107.37	3/19/11	22:10	107.34
3/19/11	18:39	101.08	3/19/11	19:32	102.97	3/19/11	20:25	106.25	3/19/11	21:18	107.32	3/19/11	22:11	107.34
3/19/11	18:40	101.08	3/19/11	19:33	102.91	3/19/11	20:26	106.19	3/19/11	21:19	107.37	3/19/11	22:12	107.45
3/19/11	18:41	101.25	3/19/11	19:34	103.30	3/19/11	20:27	106.36	3/19/11	21:20	107.43	3/19/11	22:13	107.39
3/19/11	18:42	101.25	3/19/11	19:35	103.19	3/19/11	20:28	106.41	3/19/11	21:21	107.37	3/19/11	22:14	107.50
3/19/11	18:43	101.25	3/19/11	19:36	103.36	3/19/11	20:29	106.58	3/19/11	21:22	107.37	3/19/11	22:15	107.39
3/19/11	18:44	101.19	3/19/11	19:37	103.75	3/19/11	20:30	106.69	3/19/11	21:23	107.37	3/19/11	22:16	107.45
3/19/11	18:45	101.36	3/19/11	19:38	104.19	3/19/11	20:31	106.86	3/19/11	21:24	107.43	3/19/11	22:17	107.50
3/19/11	18:46	101.25	3/19/11	19:39	104.47	3/19/11	20:32	106.97	3/19/11	21:25	107.32	3/19/11	22:18	107.50
3/19/11	18:47	101.25	3/19/11	19:40	104.80	3/19/11	20:33	107.02	3/19/11	21:26	107.49	3/19/11	22:19	107.50
3/19/11	18:48	101.58	3/19/11	19:41	105.14	3/19/11	20:34	107.19	3/19/11	21:27	107.49	3/19/11	22:20	107.50
3/19/11	18:49	101.80	3/19/11	19:42	105.30	3/19/11	20:35	107.25	3/19/11	21:28	107.54	3/19/11	22:21	107.45
3/19/11	18:50	101.91	3/19/11	19:43	105.58	3/19/11	20:36	107.47	3/19/11	21:29	107.49	3/19/11	22:22	107.50
3/19/11	18:51	102.02	3/19/11	19:44	105.91	3/19/11	20:37	107.47	3/19/11	21:30	107.54	3/19/11	22:23	107.56
3/19/11	18:52	102.19	3/19/11	19:45	106.08	3/19/11	20:38	107.47	3/19/11	21:31	107.60	3/19/11	22:24	107.39
3/19/11	18:53	102.30	3/19/11	19:46	106.08	3/19/11	20:39	107.64	3/19/11	21:32	107.60	3/19/11	22:25	107.17
3/19/11	18:54	102.47	3/19/11	19:47	105.75	3/19/11	20:40	107.64	3/19/11	21:33	107.60	3/19/11	22:26	107.00
3/19/11	18:55	102.64	3/19/11	19:48	105.47	3/19/11	20:41	107.64	3/19/11	21:34	107.65	3/19/11	22:27	106.84
3/19/11	18:56	102.69	3/19/11	19:49	105.08	3/19/11	20:42	107.64	3/19/11	21:35	107.82	3/19/11	22:28	106.84
3/19/11	18:57	102.64	3/19/11	19:50	104.86	3/19/11	20:43	107.86	3/19/11	21:36	107.82	3/19/11	22:29	106.95
3/19/11	18:58	102.75	3/19/11	19:51	104.97	3/19/11	20:44	107.80	3/19/11	21:37	107.93	3/19/11	22:30	107.00
3/19/11	18:59	102.64	3/19/11	19:52	104.97	3/19/11	20:45	107.80	3/19/11	21:38	107.87	3/19/11	22:31	107.11
3/19/11	19:00	102.80	3/19/11	19:53	104.75	3/19/11	20:46	108.02	3/19/11	21:39	107.87	3/19/11	22:32	107.17
3/19/11	19:01	102.75	3/19/11	19:54	104.47	3/19/11	20:47	107.97	3/19/11	21:40	107.99	3/19/11	22:33	107.22
3/19/11	19:02	102.69	3/19/11	19:55	104.36	3/19/11	20:48	108.02	3/19/11	21:41	107.93	3/19/11	22:34	107.34
3/19/11	19:03	102.80	3/19/11	19:56	104.14	3/19/11	20:49	107.97	3/19/11	21:42	108.04	3/19/11	22:35	107.39
3/19/11	19:04	102.69	3/19/11	19:57	104.02	3/19/11	20:50	107.97	3/19/11	21:43	107.93	3/19/11	22:36	107.50
3/19/11	19:05	102.64	3/19/11	19:58	104.14	3/19/11	20:51	108.02	3/19/11	21:44	107.87	3/19/11	22:37	107.39
3/19/11	19:06	102.80	3/19/11	19:59	104.25	3/19/11	20:52	107.97	3/19/11	21:45	107.76	3/19/11	22:38	107.56
3/19/11	19:07	102.75	3/19/11	20:00	104.47	3/19/11	20:53	107.97	3/19/11	21:46	107.82	3/19/11	22:39	107.72

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/19/11	22:40	107.67	3/19/11	23:33	108.24	3/20/11	0:26	108.85	3/20/11	1:19	109.19	3/20/11	2:12	109.52
3/19/11	22:41	107.72	3/19/11	23:34	108.24	3/20/11	0:27	108.85	3/20/11	1:20	109.19	3/20/11	2:13	109.46
3/19/11	22:42	107.72	3/19/11	23:35	108.24	3/20/11	0:28	108.80	3/20/11	1:21	109.13	3/20/11	2:14	109.46
3/19/11	22:43	107.67	3/19/11	23:36	108.30	3/20/11	0:29	108.91	3/20/11	1:22	109.30	3/20/11	2:15	109.46
3/19/11	22:44	107.78	3/19/11	23:37	108.24	3/20/11	0:30	108.85	3/20/11	1:23	109.24	3/20/11	2:16	109.52
3/19/11	22:45	107.67	3/19/11	23:38	108.30	3/20/11	0:31	108.80	3/20/11	1:24	109.19	3/20/11	2:17	109.41
3/19/11	22:46	107.72	3/19/11	23:39	108.30	3/20/11	0:32	108.91	3/20/11	1:25	109.30	3/20/11	2:18	109.35
3/19/11	22:47	107.67	3/19/11	23:40	108.30	3/20/11	0:33	108.80	3/20/11	1:26	109.19	3/20/11	2:19	109.52
3/19/11	22:48	107.61	3/19/11	23:41	108.24	3/20/11	0:34	108.91	3/20/11	1:27	109.30	3/20/11	2:20	109.41
3/19/11	22:49	107.61	3/19/11	23:42	108.19	3/20/11	0:35	108.85	3/20/11	1:28	109.30	3/20/11	2:21	109.35
3/19/11	22:50	107.56	3/19/11	23:43	108.24	3/20/11	0:36	108.80	3/20/11	1:29	109.19	3/20/11	2:22	109.41
3/19/11	22:51	107.61	3/19/11	23:44	108.07	3/20/11	0:37	108.91	3/20/11	1:30	109.30	3/20/11	2:23	109.30
3/19/11	22:52	107.56	3/19/11	23:45	108.19	3/20/11	0:38	108.80	3/20/11	1:31	109.35	3/20/11	2:24	109.41
3/19/11	22:53	107.56	3/19/11	23:46	108.19	3/20/11	0:39	108.85	3/20/11	1:32	109.35	3/20/11	2:25	109.46
3/19/11	22:54	107.56	3/19/11	23:47	108.07	3/20/11	0:40	108.80	3/20/11	1:33	109.30	3/20/11	2:26	109.41
3/19/11	22:55	107.61	3/19/11	23:48	108.19	3/20/11	0:41	108.80	3/20/11	1:34	109.30	3/20/11	2:27	109.35
3/19/11	22:56	107.67	3/19/11	23:49	108.24	3/20/11	0:42	108.85	3/20/11	1:35	109.35	3/20/11	2:28	109.24
3/19/11	22:57	107.61	3/19/11	23:50	108.19	3/20/11	0:43	108.85	3/20/11	1:36	109.41	3/20/11	2:29	109.41
3/19/11	22:58	107.56	3/19/11	23:51	108.13	3/20/11	0:44	108.85	3/20/11	1:37	109.35	3/20/11	2:30	109.35
3/19/11	22:59	107.67	3/19/11	23:52	108.19	3/20/11	0:45	108.85	3/20/11	1:38	109.35	3/20/11	2:31	109.52
3/19/11	23:00	107.69	3/19/11	23:53	108.19	3/20/11	0:46	108.80	3/20/11	1:39	109.41	3/20/11	2:32	109.41
3/19/11	23:01	107.74	3/19/11	23:54	108.24	3/20/11	0:47	108.80	3/20/11	1:40	109.41	3/20/11	2:33	109.46
3/19/11	23:02	107.74	3/19/11	23:55	108.24	3/20/11	0:48	108.80	3/20/11	1:41	109.46	3/20/11	2:34	109.52
3/19/11	23:03	107.80	3/19/11	23:56	108.30	3/20/11	0:49	108.85	3/20/11	1:42	109.41	3/20/11	2:35	109.46
3/19/11	23:04	107.80	3/19/11	23:57	108.24	3/20/11	0:50	108.80	3/20/11	1:43	109.35	3/20/11	2:36	109.46
3/19/11	23:05	107.85	3/19/11	23:58	108.30	3/20/11	0:51	108.85	3/20/11	1:44	109.35	3/20/11	2:37	109.52
3/19/11	23:06	107.91	3/19/11	23:59	108.46	3/20/11	0:52	108.80	3/20/11	1:45	109.41	3/20/11	2:38	109.46
3/19/11	23:07	107.85	3/20/11	0:00	108.35	3/20/11	0:53	108.80	3/20/11	1:46	109.41	3/20/11	2:39	109.52
3/19/11	23:08	107.80	3/20/11	0:01	108.35	3/20/11	0:54	108.80	3/20/11	1:47	109.35	3/20/11	2:40	109.46
3/19/11	23:09	107.91	3/20/11	0:02	108.41	3/20/11	0:55	108.85	3/20/11	1:48	109.46	3/20/11	2:41	109.57
3/19/11	23:10	107.96	3/20/11	0:03	108.46	3/20/11	0:56	108.85	3/20/11	1:49	109.41	3/20/11	2:42	109.52
3/19/11	23:11	107.85	3/20/11	0:04	108.46	3/20/11	0:57	108.85	3/20/11	1:50	109.46	3/20/11	2:43	109.46
3/19/11	23:12	107.96	3/20/11	0:05	108.57	3/20/11	0:58	108.96	3/20/11	1:51	109.46	3/20/11	2:44	109.57
3/19/11	23:13	107.91	3/20/11	0:06	108.57	3/20/11	0:59	108.91	3/20/11	1:52	109.41	3/20/11	2:45	109.52
3/19/11	23:14	108.07	3/20/11	0:07	108.52	3/20/11	1:00	108.96	3/20/11	1:53	109.46	3/20/11	2:46	109.57
3/19/11	23:15	107.91	3/20/11	0:08	108.57	3/20/11	1:01	108.91	3/20/11	1:54	109.41	3/20/11	2:47	109.57
3/19/11	23:16	108.02	3/20/11	0:09	108.46	3/20/11	1:02	108.96	3/20/11	1:55	109.41	3/20/11	2:48	109.63
3/19/11	23:17	107.96	3/20/11	0:10	108.57	3/20/11	1:03	108.96	3/20/11	1:56	109.46	3/20/11	2:49	109.52
3/19/11	23:18	108.02	3/20/11	0:11	108.57	3/20/11	1:04	109.02	3/20/11	1:57	109.35	3/20/11	2:50	109.69
3/19/11	23:19	108.07	3/20/11	0:12	108.63	3/20/11	1:05	109.02	3/20/11	1:58	109.46	3/20/11	2:51	109.63
3/19/11	23:20	108.13	3/20/11	0:13	108.57	3/20/11	1:06	108.96	3/20/11	1:59	109.46	3/20/11	2:52	109.63
3/19/11	23:21	108.02	3/20/11	0:14	108.57	3/20/11	1:07	109.07	3/20/11	2:00	109.46	3/20/11	2:53	109.57
3/19/11	23:22	108.02	3/20/11	0:15	108.63	3/20/11	1:08	109.02	3/20/11	2:01	109.46	3/20/11	2:54	109.57
3/19/11	23:23	108.07	3/20/11	0:16	108.63	3/20/11	1:09	109.13	3/20/11	2:02	109.52	3/20/11	2:55	109.57
3/19/11	23:24	108.19	3/20/11	0:17	108.57	3/20/11	1:10	109.07	3/20/11	2:03	109.41	3/20/11	2:56	109.63
3/19/11	23:25	108.24	3/20/11	0:18	108.57	3/20/11	1:11	109.07	3/20/11	2:04	109.46	3/20/11	2:57	109.63
3/19/11	23:26	108.19	3/20/11	0:19	108.63	3/20/11	1:12	109.07	3/20/11	2:05	109.41	3/20/11	2:58	109.74
3/19/11	23:27	108.24	3/20/11	0:20	108.63	3/20/11	1:13	109.13	3/20/11	2:06	109.46	3/20/11	2:59	109.69
3/19/11	23:28	108.24	3/20/11	0:21	108.63	3/20/11	1:14	109.19	3/20/11	2:07	109.57	3/20/11	3:00	109.61
3/19/11	23:29	108.30	3/20/11	0:22	108.69	3/20/11	1:15	109.13	3/20/11	2:08	109.57	3/20/11	3:01	109.67
3/19/11	23:30	108.13	3/20/11	0:23	108.74	3/20/11	1:16	109.13	3/20/11	2:09	109.52	3/20/11	3:02	109.50
3/19/11	23:31	108.24	3/20/11	0:24	108.80	3/20/11	1:17	109.13	3/20/11	2:10	109.46	3/20/11	3:03	109.56
3/19/11	23:32	108.24	3/20/11	0:25	108.80	3/20/11	1:18	109.19	3/20/11	2:11	109.52	3/20/11	3:04	109.56

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	3:05	109.56	3/20/11	3:58	109.22	3/20/11	4:51	109.34	3/20/11	5:44	109.28	3/20/11	6:37	107.46
3/20/11	3:06	109.56	3/20/11	3:59	109.17	3/20/11	4:52	109.28	3/20/11	5:45	109.28	3/20/11	6:38	107.63
3/20/11	3:07	109.56	3/20/11	4:00	109.17	3/20/11	4:53	109.34	3/20/11	5:46	109.34	3/20/11	6:39	107.91
3/20/11	3:08	109.50	3/20/11	4:01	109.17	3/20/11	4:54	109.34	3/20/11	5:47	109.28	3/20/11	6:40	108.13
3/20/11	3:09	109.56	3/20/11	4:02	109.17	3/20/11	4:55	109.34	3/20/11	5:48	109.28	3/20/11	6:41	108.41
3/20/11	3:10	109.45	3/20/11	4:03	109.17	3/20/11	4:56	109.39	3/20/11	5:49	109.28	3/20/11	6:42	108.57
3/20/11	3:11	109.56	3/20/11	4:04	109.17	3/20/11	4:57	109.39	3/20/11	5:50	109.34	3/20/11	6:43	108.69
3/20/11	3:12	109.45	3/20/11	4:05	109.28	3/20/11	4:58	109.39	3/20/11	5:51	109.34	3/20/11	6:44	108.85
3/20/11	3:13	109.50	3/20/11	4:06	109.22	3/20/11	4:59	109.39	3/20/11	5:52	109.28	3/20/11	6:45	108.96
3/20/11	3:14	109.45	3/20/11	4:07	109.17	3/20/11	5:00	109.28	3/20/11	5:53	109.28	3/20/11	6:46	108.96
3/20/11	3:15	109.50	3/20/11	4:08	109.22	3/20/11	5:01	109.34	3/20/11	5:54	109.11	3/20/11	6:47	109.24
3/20/11	3:16	109.50	3/20/11	4:09	109.17	3/20/11	5:02	109.34	3/20/11	5:55	109.00	3/20/11	6:48	109.24
3/20/11	3:17	109.50	3/20/11	4:10	109.17	3/20/11	5:03	109.39	3/20/11	5:56	108.95	3/20/11	6:49	109.19
3/20/11	3:18	109.45	3/20/11	4:11	109.11	3/20/11	5:04	109.34	3/20/11	5:57	109.06	3/20/11	6:50	109.35
3/20/11	3:19	109.50	3/20/11	4:12	109.11	3/20/11	5:05	109.28	3/20/11	5:58	109.06	3/20/11	6:51	109.57
3/20/11	3:20	109.50	3/20/11	4:13	109.17	3/20/11	5:06	109.28	3/20/11	5:59	109.06	3/20/11	6:52	109.63
3/20/11	3:21	109.56	3/20/11	4:14	109.17	3/20/11	5:07	109.34	3/20/11	6:00	109.07	3/20/11	6:53	109.69
3/20/11	3:22	109.50	3/20/11	4:15	109.17	3/20/11	5:08	109.28	3/20/11	6:01	109.19	3/20/11	6:54	109.74
3/20/11	3:23	109.50	3/20/11	4:16	109.11	3/20/11	5:09	109.22	3/20/11	6:02	109.07	3/20/11	6:55	109.69
3/20/11	3:24	109.45	3/20/11	4:17	109.17	3/20/11	5:10	109.28	3/20/11	6:03	109.13	3/20/11	6:56	109.80
3/20/11	3:25	109.56	3/20/11	4:18	109.22	3/20/11	5:11	109.28	3/20/11	6:04	109.13	3/20/11	6:57	109.85
3/20/11	3:26	109.56	3/20/11	4:19	109.11	3/20/11	5:12	109.28	3/20/11	6:05	109.07	3/20/11	6:58	109.96
3/20/11	3:27	109.50	3/20/11	4:20	109.17	3/20/11	5:13	109.28	3/20/11	6:06	109.07	3/20/11	6:59	109.85
3/20/11	3:28	109.50	3/20/11	4:21	109.17	3/20/11	5:14	109.28	3/20/11	6:07	108.96	3/20/11	7:00	110.03
3/20/11	3:29	109.56	3/20/11	4:22	109.17	3/20/11	5:15	109.28	3/20/11	6:08	108.96	3/20/11	7:01	109.65
3/20/11	3:30	109.45	3/20/11	4:23	109.17	3/20/11	5:16	109.28	3/20/11	6:09	108.96	3/20/11	7:02	109.59
3/20/11	3:31	109.56	3/20/11	4:24	109.17	3/20/11	5:17	109.22	3/20/11	6:10	108.96	3/20/11	7:03	109.48
3/20/11	3:32	109.45	3/20/11	4:25	109.22	3/20/11	5:18	109.34	3/20/11	6:11	108.85	3/20/11	7:04	109.42
3/20/11	3:33	109.45	3/20/11	4:26	109.22	3/20/11	5:19	109.28	3/20/11	6:12	108.85	3/20/11	7:05	109.31
3/20/11	3:34	109.45	3/20/11	4:27	109.11	3/20/11	5:20	109.22	3/20/11	6:13	108.91	3/20/11	7:06	109.31
3/20/11	3:35	109.56	3/20/11	4:28	109.17	3/20/11	5:21	109.28	3/20/11	6:14	108.85	3/20/11	7:07	109.31
3/20/11	3:36	109.56	3/20/11	4:29	109.11	3/20/11	5:22	109.22	3/20/11	6:15	109.02	3/20/11	7:08	109.26
3/20/11	3:37	109.50	3/20/11	4:30	109.17	3/20/11	5:23	109.28	3/20/11	6:16	108.96	3/20/11	7:09	109.37
3/20/11	3:38	109.50	3/20/11	4:31	109.17	3/20/11	5:24	109.28	3/20/11	6:17	109.07	3/20/11	7:10	109.42
3/20/11	3:39	109.50	3/20/11	4:32	109.28	3/20/11	5:25	109.22	3/20/11	6:18	109.02	3/20/11	7:11	109.53
3/20/11	3:40	109.50	3/20/11	4:33	109.06	3/20/11	5:26	109.28	3/20/11	6:19	109.07	3/20/11	7:12	109.70
3/20/11	3:41	109.50	3/20/11	4:34	109.17	3/20/11	5:27	109.28	3/20/11	6:20	106.07	3/20/11	7:13	109.70
3/20/11	3:42	109.45	3/20/11	4:35	109.17	3/20/11	5:28	109.28	3/20/11	6:21	100.74	3/20/11	7:14	109.87
3/20/11	3:43	109.39	3/20/11	4:36	109.22	3/20/11	5:29	109.34	3/20/11	6:22	101.57	3/20/11	7:15	110.15
3/20/11	3:44	109.39	3/20/11	4:37	109.22	3/20/11	5:30	109.34	3/20/11	6:23	101.96	3/20/11	7:16	111.20
3/20/11	3:45	109.50	3/20/11	4:38	109.28	3/20/11	5:31	109.17	3/20/11	6:24	102.52	3/20/11	7:17	110.98
3/20/11	3:46	109.34	3/20/11	4:39	109.34	3/20/11	5:32	109.28	3/20/11	6:25	102.96	3/20/11	7:18	110.87
3/20/11	3:47	109.39	3/20/11	4:40	109.34	3/20/11	5:33	109.22	3/20/11	6:26	103.30	3/20/11	7:19	110.98
3/20/11	3:48	109.39	3/20/11	4:41	109.34	3/20/11	5:34	109.22	3/20/11	6:27	103.85	3/20/11	7:20	110.98
3/20/11	3:49	109.34	3/20/11	4:42	109.28	3/20/11	5:35	109.28	3/20/11	6:28	104.30	3/20/11	7:21	111.03
3/20/11	3:50	109.34	3/20/11	4:43	109.28	3/20/11	5:36	109.22	3/20/11	6:29	104.85	3/20/11	7:22	111.42
3/20/11	3:51	109.34	3/20/11	4:44	109.28	3/20/11	5:37	109.22	3/20/11	6:30	105.19	3/20/11	7:23	111.48
3/20/11	3:52	109.34	3/20/11	4:45	109.28	3/20/11	5:38	109.22	3/20/11	6:31	105.46	3/20/11	7:24	111.76
3/20/11	3:53	109.22	3/20/11	4:46	109.28	3/20/11	5:39	109.17	3/20/11	6:32	105.80	3/20/11	7:25	111.92
3/20/11	3:54	109.22	3/20/11	4:47	109.28	3/20/11	5:40	109.17	3/20/11	6:33	106.13	3/20/11	7:26	112.03
3/20/11	3:55	109.28	3/20/11	4:48	109.39	3/20/11	5:41	109.17	3/20/11	6:34	106.52	3/20/11	7:27	112.20
3/20/11	3:56	109.28	3/20/11	4:49	109.28	3/20/11	5:42	109.28	3/20/11	6:35	106.91	3/20/11	7:28	112.37
3/20/11	3:57	109.28	3/20/11	4:50	109.34	3/20/11	5:43	109.28	3/20/11	6:36	107.07	3/20/11	7:29	112.59

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	7:30	112.70	3/20/11	8:23	111.89	3/20/11	9:16	112.03	3/20/11	10:09	112.42	3/20/11	11:02	112.46
3/20/11	7:31	112.76	3/20/11	8:24	111.89	3/20/11	9:17	112.08	3/20/11	10:10	112.31	3/20/11	11:03	112.40
3/20/11	7:32	112.98	3/20/11	8:25	111.89	3/20/11	9:18	112.08	3/20/11	10:11	112.42	3/20/11	11:04	112.46
3/20/11	7:33	113.53	3/20/11	8:26	111.94	3/20/11	9:19	112.14	3/20/11	10:12	112.42	3/20/11	11:05	112.51
3/20/11	7:34	113.76	3/20/11	8:27	111.83	3/20/11	9:20	112.14	3/20/11	10:13	112.42	3/20/11	11:06	112.40
3/20/11	7:35	113.59	3/20/11	8:28	111.94	3/20/11	9:21	112.08	3/20/11	10:14	112.36	3/20/11	11:07	112.51
3/20/11	7:36	113.48	3/20/11	8:29	112.00	3/20/11	9:22	112.20	3/20/11	10:15	112.25	3/20/11	11:08	112.46
3/20/11	7:37	113.26	3/20/11	8:30	111.94	3/20/11	9:23	112.14	3/20/11	10:16	112.31	3/20/11	11:09	112.46
3/20/11	7:38	113.15	3/20/11	8:31	112.00	3/20/11	9:24	112.20	3/20/11	10:17	112.31	3/20/11	11:10	112.35
3/20/11	7:39	113.15	3/20/11	8:32	111.89	3/20/11	9:25	112.14	3/20/11	10:18	112.31	3/20/11	11:11	112.40
3/20/11	7:40	113.09	3/20/11	8:33	112.00	3/20/11	9:26	112.20	3/20/11	10:19	112.25	3/20/11	11:12	112.40
3/20/11	7:41	112.98	3/20/11	8:34	111.89	3/20/11	9:27	112.20	3/20/11	10:20	112.42	3/20/11	11:13	112.40
3/20/11	7:42	113.03	3/20/11	8:35	112.05	3/20/11	9:28	112.25	3/20/11	10:21	112.53	3/20/11	11:14	112.29
3/20/11	7:43	112.87	3/20/11	8:36	111.94	3/20/11	9:29	112.25	3/20/11	10:22	112.47	3/20/11	11:15	112.29
3/20/11	7:44	112.92	3/20/11	8:37	112.00	3/20/11	9:30	112.31	3/20/11	10:23	112.53	3/20/11	11:16	112.35
3/20/11	7:45	112.87	3/20/11	8:38	112.05	3/20/11	9:31	112.20	3/20/11	10:24	112.47	3/20/11	11:17	112.35
3/20/11	7:46	112.81	3/20/11	8:39	112.05	3/20/11	9:32	112.20	3/20/11	10:25	112.36	3/20/11	11:18	112.29
3/20/11	7:47	112.81	3/20/11	8:40	112.11	3/20/11	9:33	112.25	3/20/11	10:26	112.36	3/20/11	11:19	112.23
3/20/11	7:48	112.53	3/20/11	8:41	112.16	3/20/11	9:34	112.25	3/20/11	10:27	112.36	3/20/11	11:20	112.29
3/20/11	7:49	112.53	3/20/11	8:42	112.05	3/20/11	9:35	112.20	3/20/11	10:28	112.42	3/20/11	11:21	112.29
3/20/11	7:50	112.31	3/20/11	8:43	112.05	3/20/11	9:36	112.25	3/20/11	10:29	112.31	3/20/11	11:22	112.29
3/20/11	7:51	112.31	3/20/11	8:44	112.05	3/20/11	9:37	112.25	3/20/11	10:30	112.31	3/20/11	11:23	112.29
3/20/11	7:52	112.26	3/20/11	8:45	112.00	3/20/11	9:38	112.25	3/20/11	10:31	112.20	3/20/11	11:24	112.23
3/20/11	7:53	112.15	3/20/11	8:46	112.11	3/20/11	9:39	112.25	3/20/11	10:32	112.20	3/20/11	11:25	112.18
3/20/11	7:54	112.09	3/20/11	8:47	112.00	3/20/11	9:40	112.20	3/20/11	10:33	112.20	3/20/11	11:26	112.23
3/20/11	7:55	112.09	3/20/11	8:48	112.05	3/20/11	9:41	112.20	3/20/11	10:34	112.08	3/20/11	11:27	112.12
3/20/11	7:56	111.98	3/20/11	8:49	111.94	3/20/11	9:42	112.20	3/20/11	10:35	112.03	3/20/11	11:28	112.23
3/20/11	7:57	111.98	3/20/11	8:50	112.05	3/20/11	9:43	112.25	3/20/11	10:36	112.08	3/20/11	11:29	112.23
3/20/11	7:58	111.98	3/20/11	8:51	112.05	3/20/11	9:44	112.20	3/20/11	10:37	112.03	3/20/11	11:30	112.29
3/20/11	7:59	111.92	3/20/11	8:52	111.94	3/20/11	9:45	112.31	3/20/11	10:38	112.20	3/20/11	11:31	112.18
3/20/11	8:00	111.89	3/20/11	8:53	112.05	3/20/11	9:46	112.25	3/20/11	10:39	112.25	3/20/11	11:32	112.23
3/20/11	8:01	111.94	3/20/11	8:54	112.00	3/20/11	9:47	112.31	3/20/11	10:40	112.20	3/20/11	11:33	112.29
3/20/11	8:02	111.83	3/20/11	8:55	112.00	3/20/11	9:48	112.25	3/20/11	10:41	112.25	3/20/11	11:34	112.29
3/20/11	8:03	111.89	3/20/11	8:56	112.00	3/20/11	9:49	112.31	3/20/11	10:42	112.31	3/20/11	11:35	112.23
3/20/11	8:04	111.89	3/20/11	8:57	111.94	3/20/11	9:50	112.25	3/20/11	10:43	112.42	3/20/11	11:36	112.29
3/20/11	8:05	111.77	3/20/11	8:58	111.94	3/20/11	9:51	112.31	3/20/11	10:44	112.36	3/20/11	11:37	112.35
3/20/11	8:06	111.77	3/20/11	8:59	111.94	3/20/11	9:52	112.31	3/20/11	10:45	112.47	3/20/11	11:38	112.35
3/20/11	8:07	111.83	3/20/11	9:00	111.97	3/20/11	9:53	112.25	3/20/11	10:46	112.42	3/20/11	11:39	112.29
3/20/11	8:08	111.66	3/20/11	9:01	112.03	3/20/11	9:54	112.42	3/20/11	10:47	112.47	3/20/11	11:40	112.35
3/20/11	8:09	111.83	3/20/11	9:02	112.03	3/20/11	9:55	112.36	3/20/11	10:48	112.47	3/20/11	11:41	112.35
3/20/11	8:10	111.83	3/20/11	9:03	112.03	3/20/11	9:56	112.36	3/20/11	10:49	112.42	3/20/11	11:42	112.23
3/20/11	8:11	111.83	3/20/11	9:04	112.03	3/20/11	9:57	112.42	3/20/11	10:50	112.47	3/20/11	11:43	112.35
3/20/11	8:12	111.83	3/20/11	9:05	111.97	3/20/11	9:58	112.31	3/20/11	10:51	112.47	3/20/11	11:44	112.35
3/20/11	8:13	111.83	3/20/11	9:06	111.97	3/20/11	9:59	112.47	3/20/11	10:52	112.53	3/20/11	11:45	112.29
3/20/11	8:14	111.72	3/20/11	9:07	112.03	3/20/11	10:00	112.47	3/20/11	10:53	112.42	3/20/11	11:46	112.35
3/20/11	8:15	111.72	3/20/11	9:08	112.03	3/20/11	10:01	112.47	3/20/11	10:54	112.47	3/20/11	11:47	112.29
3/20/11	8:16	111.77	3/20/11	9:09	111.97	3/20/11	10:02	112.42	3/20/11	10:55	112.47	3/20/11	11:48	112.23
3/20/11	8:17	111.83	3/20/11	9:10	112.03	3/20/11	10:03	112.42	3/20/11	10:56	112.42	3/20/11	11:49	112.29
3/20/11	8:18	111.83	3/20/11	9:11	111.97	3/20/11	10:04	112.42	3/20/11	10:57	112.47	3/20/11	11:50	112.35
3/20/11	8:19	111.83	3/20/11	9:12	112.08	3/20/11	10:05	112.47	3/20/11	10:58	112.42	3/20/11	11:51	112.29
3/20/11	8:20	111.94	3/20/11	9:13	112.08	3/20/11	10:06	112.42	3/20/11	10:59	112.53	3/20/11	11:52	112.23
3/20/11	8:21	111.83	3/20/11	9:14	112.03	3/20/11	10:07	112.42	3/20/11	11:00	112.40	3/20/11	11:53	112.35
3/20/11	8:22	111.77	3/20/11	9:15	112.03	3/20/11	10:08	112.42	3/20/11	11:01	112.46	3/20/11	11:54	112.40

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	11:55	112.35	3/20/11	12:48	112.46	3/20/11	13:41	112.76	3/20/11	14:34	112.89	3/20/11	15:27	112.60
3/20/11	11:56	112.35	3/20/11	12:49	112.46	3/20/11	13:42	112.87	3/20/11	14:35	112.84	3/20/11	15:28	112.71
3/20/11	11:57	112.35	3/20/11	12:50	112.40	3/20/11	13:43	112.76	3/20/11	14:36	112.78	3/20/11	15:29	112.65
3/20/11	11:58	112.29	3/20/11	12:51	112.46	3/20/11	13:44	112.81	3/20/11	14:37	112.78	3/20/11	15:30	112.65
3/20/11	11:59	112.29	3/20/11	12:52	112.40	3/20/11	13:45	112.70	3/20/11	14:38	112.84	3/20/11	15:31	112.60
3/20/11	12:00	112.29	3/20/11	12:53	112.35	3/20/11	13:46	112.81	3/20/11	14:39	112.95	3/20/11	15:32	112.71
3/20/11	12:01	112.29	3/20/11	12:54	112.46	3/20/11	13:47	112.87	3/20/11	14:40	112.84	3/20/11	15:33	112.71
3/20/11	12:02	112.29	3/20/11	12:55	112.46	3/20/11	13:48	112.76	3/20/11	14:41	112.89	3/20/11	15:34	112.76
3/20/11	12:03	112.29	3/20/11	12:56	112.40	3/20/11	13:49	112.81	3/20/11	14:42	112.84	3/20/11	15:35	112.93
3/20/11	12:04	112.35	3/20/11	12:57	112.51	3/20/11	13:50	112.81	3/20/11	14:43	112.89	3/20/11	15:36	112.99
3/20/11	12:05	112.40	3/20/11	12:58	112.40	3/20/11	13:51	112.81	3/20/11	14:44	112.84	3/20/11	15:37	113.15
3/20/11	12:06	112.40	3/20/11	12:59	112.51	3/20/11	13:52	112.87	3/20/11	14:45	112.84	3/20/11	15:38	113.15
3/20/11	12:07	112.35	3/20/11	13:00	112.48	3/20/11	13:53	112.87	3/20/11	14:46	112.78	3/20/11	15:39	113.15
3/20/11	12:08	112.40	3/20/11	13:01	112.37	3/20/11	13:54	112.87	3/20/11	14:47	112.84	3/20/11	15:40	113.21
3/20/11	12:09	112.40	3/20/11	13:02	112.53	3/20/11	13:55	112.76	3/20/11	14:48	112.84	3/20/11	15:41	113.26
3/20/11	12:10	112.40	3/20/11	13:03	112.53	3/20/11	13:56	112.87	3/20/11	14:49	112.89	3/20/11	15:42	113.26
3/20/11	12:11	112.46	3/20/11	13:04	112.37	3/20/11	13:57	112.87	3/20/11	14:50	112.84	3/20/11	15:43	113.32
3/20/11	12:12	112.35	3/20/11	13:05	112.48	3/20/11	13:58	112.81	3/20/11	14:51	112.84	3/20/11	15:44	113.37
3/20/11	12:13	112.51	3/20/11	13:06	112.42	3/20/11	13:59	112.81	3/20/11	14:52	112.84	3/20/11	15:45	113.43
3/20/11	12:14	112.40	3/20/11	13:07	112.42	3/20/11	14:00	112.72	3/20/11	14:53	112.78	3/20/11	15:46	113.43
3/20/11	12:15	112.40	3/20/11	13:08	112.42	3/20/11	14:01	112.84	3/20/11	14:54	112.84	3/20/11	15:47	113.43
3/20/11	12:16	112.40	3/20/11	13:09	112.48	3/20/11	14:02	112.84	3/20/11	14:55	112.84	3/20/11	15:48	113.43
3/20/11	12:17	112.40	3/20/11	13:10	112.53	3/20/11	14:03	112.72	3/20/11	14:56	112.89	3/20/11	15:49	113.43
3/20/11	12:18	112.40	3/20/11	13:11	112.53	3/20/11	14:04	112.78	3/20/11	14:57	112.84	3/20/11	15:50	113.43
3/20/11	12:19	112.46	3/20/11	13:12	112.31	3/20/11	14:05	112.78	3/20/11	14:58	112.78	3/20/11	15:51	113.49
3/20/11	12:20	112.40	3/20/11	13:13	112.65	3/20/11	14:06	112.89	3/20/11	14:59	112.84	3/20/11	15:52	113.37
3/20/11	12:21	112.40	3/20/11	13:14	112.59	3/20/11	14:07	112.89	3/20/11	15:00	112.76	3/20/11	15:53	113.49
3/20/11	12:22	112.35	3/20/11	13:15	112.59	3/20/11	14:08	112.78	3/20/11	15:01	112.82	3/20/11	15:54	113.43
3/20/11	12:23	112.35	3/20/11	13:16	112.53	3/20/11	14:09	112.78	3/20/11	15:02	112.82	3/20/11	15:55	113.43
3/20/11	12:24	112.40	3/20/11	13:17	112.59	3/20/11	14:10	112.84	3/20/11	15:03	112.82	3/20/11	15:56	113.54
3/20/11	12:25	112.46	3/20/11	13:18	112.59	3/20/11	14:11	112.89	3/20/11	15:04	112.82	3/20/11	15:57	113.49
3/20/11	12:26	112.40	3/20/11	13:19	112.59	3/20/11	14:12	112.72	3/20/11	15:05	112.82	3/20/11	15:58	113.54
3/20/11	12:27	112.40	3/20/11	13:20	112.59	3/20/11	14:13	112.89	3/20/11	15:06	112.82	3/20/11	15:59	113.54
3/20/11	12:28	112.35	3/20/11	13:21	112.59	3/20/11	14:14	112.84	3/20/11	15:07	112.93	3/20/11	16:00	113.52
3/20/11	12:29	112.46	3/20/11	13:22	112.53	3/20/11	14:15	112.78	3/20/11	15:08	112.76	3/20/11	16:01	113.52
3/20/11	12:30	112.46	3/20/11	13:23	112.70	3/20/11	14:16	112.84	3/20/11	15:09	112.71	3/20/11	16:02	113.52
3/20/11	12:31	112.46	3/20/11	13:24	112.65	3/20/11	14:17	112.84	3/20/11	15:10	112.82	3/20/11	16:03	113.58
3/20/11	12:32	112.40	3/20/11	13:25	112.70	3/20/11	14:18	112.78	3/20/11	15:11	112.76	3/20/11	16:04	113.52
3/20/11	12:33	112.40	3/20/11	13:26	112.65	3/20/11	14:19	112.84	3/20/11	15:12	112.71	3/20/11	16:05	113.58
3/20/11	12:34	112.46	3/20/11	13:27	112.65	3/20/11	14:20	112.78	3/20/11	15:13	112.76	3/20/11	16:06	113.52
3/20/11	12:35	112.40	3/20/11	13:28	112.70	3/20/11	14:21	112.78	3/20/11	15:14	112.71	3/20/11	16:07	113.52
3/20/11	12:36	112.40	3/20/11	13:29	112.59	3/20/11	14:22	112.78	3/20/11	15:15	112.71	3/20/11	16:08	113.47
3/20/11	12:37	112.40	3/20/11	13:30	112.65	3/20/11	14:23	112.84	3/20/11	15:16	112.76	3/20/11	16:09	113.52
3/20/11	12:38	112.40	3/20/11	13:31	112.70	3/20/11	14:24	112.78	3/20/11	15:17	112.71	3/20/11	16:10	113.47
3/20/11	12:39	112.40	3/20/11	13:32	112.76	3/20/11	14:25	112.78	3/20/11	15:18	112.71	3/20/11	16:11	113.47
3/20/11	12:40	112.46	3/20/11	13:33	112.65	3/20/11	14:26	112.84	3/20/11	15:19	112.65	3/20/11	16:12	113.52
3/20/11	12:41	112.46	3/20/11	13:34	112.70	3/20/11	14:27	112.84	3/20/11	15:20	112.71	3/20/11	16:13	113.52
3/20/11	12:42	112.51	3/20/11	13:35	112.81	3/20/11	14:28	112.84	3/20/11	15:21	112.65	3/20/11	16:14	113.47
3/20/11	12:43	112.51	3/20/11	13:36	112.70	3/20/11	14:29	112.78	3/20/11	15:22	112.65	3/20/11	16:15	113.52
3/20/11	12:44	112.51	3/20/11	13:37	112.81	3/20/11	14:30	112.89	3/20/11	15:23	112.65	3/20/11	16:16	113.47
3/20/11	12:45	112.46	3/20/11	13:38	112.76	3/20/11	14:31	112.84	3/20/11	15:24	112.71	3/20/11	16:17	113.41
3/20/11	12:46	112.46	3/20/11	13:39	112.81	3/20/11	14:32	112.78	3/20/11	15:25	112.65	3/20/11	16:18	113.52
3/20/11	12:47	112.46	3/20/11	13:40	112.87	3/20/11	14:33	112.84	3/20/11	15:26	112.76	3/20/11	16:19	113.52

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	16:20	113.47	3/20/11	17:13	113.55	3/20/11	18:06	113.27	3/20/11	18:59	113.05	3/20/11	19:52	112.82
3/20/11	16:21	113.41	3/20/11	17:14	113.60	3/20/11	18:07	113.27	3/20/11	19:00	112.99	3/20/11	19:53	112.82
3/20/11	16:22	113.52	3/20/11	17:15	113.55	3/20/11	18:08	113.10	3/20/11	19:01	113.05	3/20/11	19:54	112.94
3/20/11	16:23	113.47	3/20/11	17:16	113.55	3/20/11	18:09	113.21	3/20/11	19:02	113.05	3/20/11	19:55	112.94
3/20/11	16:24	113.47	3/20/11	17:17	113.60	3/20/11	18:10	113.27	3/20/11	19:03	113.05	3/20/11	19:56	112.94
3/20/11	16:25	113.41	3/20/11	17:18	113.49	3/20/11	18:11	113.27	3/20/11	19:04	113.05	3/20/11	19:57	112.99
3/20/11	16:26	113.47	3/20/11	17:19	113.49	3/20/11	18:12	113.32	3/20/11	19:05	113.10	3/20/11	19:58	112.94
3/20/11	16:27	113.41	3/20/11	17:20	113.55	3/20/11	18:13	113.21	3/20/11	19:06	113.16	3/20/11	19:59	113.05
3/20/11	16:28	113.52	3/20/11	17:21	113.49	3/20/11	18:14	113.16	3/20/11	19:07	113.16	3/20/11	20:00	113.05
3/20/11	16:29	113.47	3/20/11	17:22	113.55	3/20/11	18:15	113.10	3/20/11	19:08	112.99	3/20/11	20:01	112.99
3/20/11	16:30	113.47	3/20/11	17:23	113.49	3/20/11	18:16	113.16	3/20/11	19:09	112.71	3/20/11	20:02	112.99
3/20/11	16:31	113.47	3/20/11	17:24	113.55	3/20/11	18:17	113.16	3/20/11	19:10	112.32	3/20/11	20:03	113.10
3/20/11	16:32	113.58	3/20/11	17:25	113.44	3/20/11	18:18	113.16	3/20/11	19:11	111.99	3/20/11	20:04	113.10
3/20/11	16:33	113.52	3/20/11	17:26	113.44	3/20/11	18:19	113.05	3/20/11	19:12	111.82	3/20/11	20:05	113.21
3/20/11	16:34	113.52	3/20/11	17:27	113.44	3/20/11	18:20	113.10	3/20/11	19:13	111.55	3/20/11	20:06	112.94
3/20/11	16:35	113.52	3/20/11	17:28	113.44	3/20/11	18:21	113.05	3/20/11	19:14	111.38	3/20/11	20:07	112.55
3/20/11	16:36	113.47	3/20/11	17:29	113.44	3/20/11	18:22	112.99	3/20/11	19:15	111.55	3/20/11	20:08	112.16
3/20/11	16:37	113.52	3/20/11	17:30	113.44	3/20/11	18:23	113.05	3/20/11	19:16	111.60	3/20/11	20:09	112.32
3/20/11	16:38	113.58	3/20/11	17:31	113.44	3/20/11	18:24	112.99	3/20/11	19:17	111.77	3/20/11	20:10	112.55
3/20/11	16:39	113.52	3/20/11	17:32	113.38	3/20/11	18:25	113.05	3/20/11	19:18	111.77	3/20/11	20:11	112.88
3/20/11	16:40	113.58	3/20/11	17:33	113.44	3/20/11	18:26	113.10	3/20/11	19:19	111.60	3/20/11	20:12	112.88
3/20/11	16:41	113.58	3/20/11	17:34	113.44	3/20/11	18:27	113.16	3/20/11	19:20	111.44	3/20/11	20:13	112.94
3/20/11	16:42	113.52	3/20/11	17:35	113.44	3/20/11	18:28	113.10	3/20/11	19:21	111.21	3/20/11	20:14	112.99
3/20/11	16:43	113.52	3/20/11	17:36	113.44	3/20/11	18:29	113.16	3/20/11	19:22	111.16	3/20/11	20:15	112.99
3/20/11	16:44	113.52	3/20/11	17:37	113.38	3/20/11	18:30	113.21	3/20/11	19:23	111.44	3/20/11	20:16	113.05
3/20/11	16:45	113.52	3/20/11	17:38	113.32	3/20/11	18:31	113.21	3/20/11	19:24	111.77	3/20/11	20:17	113.21
3/20/11	16:46	113.58	3/20/11	17:39	113.49	3/20/11	18:32	113.16	3/20/11	19:25	111.71	3/20/11	20:18	113.21
3/20/11	16:47	113.47	3/20/11	17:40	113.44	3/20/11	18:33	113.21	3/20/11	19:26	111.60	3/20/11	20:19	113.27
3/20/11	16:48	113.52	3/20/11	17:41	113.44	3/20/11	18:34	113.27	3/20/11	19:27	111.49	3/20/11	20:20	113.32
3/20/11	16:49	113.52	3/20/11	17:42	113.32	3/20/11	18:35	113.21	3/20/11	19:28	111.99	3/20/11	20:21	113.44
3/20/11	16:50	113.41	3/20/11	17:43	113.44	3/20/11	18:36	113.21	3/20/11	19:29	112.38	3/20/11	20:22	113.44
3/20/11	16:51	113.52	3/20/11	17:44	113.38	3/20/11	18:37	113.16	3/20/11	19:30	112.66	3/20/11	20:23	113.44
3/20/11	16:52	113.52	3/20/11	17:45	113.38	3/20/11	18:38	113.16	3/20/11	19:31	112.99	3/20/11	20:24	113.38
3/20/11	16:53	113.58	3/20/11	17:46	113.38	3/20/11	18:39	113.10	3/20/11	19:32	112.99	3/20/11	20:25	113.49
3/20/11	16:54	113.47	3/20/11	17:47	113.44	3/20/11	18:40	112.99	3/20/11	19:33	112.94	3/20/11	20:26	113.49
3/20/11	16:55	113.58	3/20/11	17:48	113.32	3/20/11	18:41	112.94	3/20/11	19:34	112.88	3/20/11	20:27	113.60
3/20/11	16:56	113.58	3/20/11	17:49	113.32	3/20/11	18:42	113.05	3/20/11	19:35	112.88	3/20/11	20:28	113.55
3/20/11	16:57	113.52	3/20/11	17:50	113.27	3/20/11	18:43	112.99	3/20/11	19:36	112.88	3/20/11	20:29	113.60
3/20/11	16:58	113.47	3/20/11	17:51	113.32	3/20/11	18:44	112.94	3/20/11	19:37	112.77	3/20/11	20:30	113.66
3/20/11	16:59	113.58	3/20/11	17:52	113.32	3/20/11	18:45	112.94	3/20/11	19:38	112.66	3/20/11	20:31	113.71
3/20/11	17:00	113.55	3/20/11	17:53	113.32	3/20/11	18:46	112.94	3/20/11	19:39	112.55	3/20/11	20:32	113.71
3/20/11	17:01	113.55	3/20/11	17:54	113.32	3/20/11	18:47	112.82	3/20/11	19:40	112.44	3/20/11	20:33	113.82
3/20/11	17:02	113.55	3/20/11	17:55	113.21	3/20/11	18:48	112.77	3/20/11	19:41	112.44	3/20/11	20:34	113.71
3/20/11	17:03	113.55	3/20/11	17:56	113.27	3/20/11	18:49	112.71	3/20/11	19:42	112.49	3/20/11	20:35	113.82
3/20/11	17:04	113.55	3/20/11	17:57	113.16	3/20/11	18:50	112.66	3/20/11	19:43	112.49	3/20/11	20:36	113.71
3/20/11	17:05	113.49	3/20/11	17:58	113.27	3/20/11	18:51	112.66	3/20/11	19:44	112.49	3/20/11	20:37	113.82
3/20/11	17:06	113.55	3/20/11	17:59	113.10	3/20/11	18:52	112.55	3/20/11	19:45	112.55	3/20/11	20:38	113.77
3/20/11	17:07	113.55	3/20/11	18:00	113.16	3/20/11	18:53	112.49	3/20/11	19:46	112.66	3/20/11	20:39	113.71
3/20/11	17:08	113.49	3/20/11	18:01	113.05	3/20/11	18:54	112.55	3/20/11	19:47	112.66	3/20/11	20:40	113.77
3/20/11	17:09	113.44	3/20/11	18:02	113.21	3/20/11	18:55	112.66	3/20/11	19:48	112.77	3/20/11	20:41	113.77
3/20/11	17:10	113.55	3/20/11	18:03	113.21	3/20/11	18:56	112.77	3/20/11	19:49	112.82	3/20/11	20:42	113.77
3/20/11	17:11	113.49	3/20/11	18:04	113.10	3/20/11	18:57	112.77	3/20/11	19:50	112.82	3/20/11	20:43	113.71
3/20/11	17:12	113.44	3/20/11	18:05	113.10	3/20/11	18:58	112.94	3/20/11	19:51	112.77	3/20/11	20:44	113.71

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	20:45	113.77	3/20/11	21:38	113.67	3/20/11	22:31	112.69	3/20/11	23:24	113.91	3/21/11	0:17	114.08
3/20/11	20:46	113.66	3/20/11	21:39	113.62	3/20/11	22:32	112.64	3/20/11	23:25	114.02	3/21/11	0:18	114.14
3/20/11	20:47	113.66	3/20/11	21:40	113.67	3/20/11	22:33	112.64	3/20/11	23:26	113.97	3/21/11	0:19	114.14
3/20/11	20:48	113.66	3/20/11	21:41	113.62	3/20/11	22:34	112.69	3/20/11	23:27	114.08	3/21/11	0:20	114.19
3/20/11	20:49	113.60	3/20/11	21:42	113.56	3/20/11	22:35	112.64	3/20/11	23:28	114.02	3/21/11	0:21	114.02
3/20/11	20:50	113.60	3/20/11	21:43	113.51	3/20/11	22:36	112.64	3/20/11	23:29	114.14	3/21/11	0:22	114.14
3/20/11	20:51	113.66	3/20/11	21:44	113.51	3/20/11	22:37	112.58	3/20/11	23:30	114.08	3/21/11	0:23	114.14
3/20/11	20:52	113.60	3/20/11	21:45	113.51	3/20/11	22:38	112.69	3/20/11	23:31	114.19	3/21/11	0:24	114.08
3/20/11	20:53	113.66	3/20/11	21:46	113.56	3/20/11	22:39	112.64	3/20/11	23:32	114.19	3/21/11	0:25	114.19
3/20/11	20:54	113.60	3/20/11	21:47	113.51	3/20/11	22:40	112.64	3/20/11	23:33	114.19	3/21/11	0:26	114.14
3/20/11	20:55	113.60	3/20/11	21:48	113.51	3/20/11	22:41	112.52	3/20/11	23:34	114.19	3/21/11	0:27	114.19
3/20/11	20:56	113.66	3/20/11	21:49	113.51	3/20/11	22:42	112.52	3/20/11	23:35	114.25	3/21/11	0:28	114.25
3/20/11	20:57	113.60	3/20/11	21:50	113.56	3/20/11	22:43	112.52	3/20/11	23:36	114.14	3/21/11	0:29	114.25
3/20/11	20:58	113.55	3/20/11	21:51	113.62	3/20/11	22:44	112.58	3/20/11	23:37	114.25	3/21/11	0:30	114.19
3/20/11	20:59	113.66	3/20/11	21:52	113.62	3/20/11	22:45	112.52	3/20/11	23:38	114.14	3/21/11	0:31	114.08
3/20/11	21:00	113.62	3/20/11	21:53	113.62	3/20/11	22:46	112.52	3/20/11	23:39	114.19	3/21/11	0:32	114.19
3/20/11	21:01	113.67	3/20/11	21:54	113.73	3/20/11	22:47	112.52	3/20/11	23:40	114.14	3/21/11	0:33	114.14
3/20/11	21:02	113.62	3/20/11	21:55	113.67	3/20/11	22:48	112.58	3/20/11	23:41	114.19	3/21/11	0:34	114.19
3/20/11	21:03	113.62	3/20/11	21:56	113.79	3/20/11	22:49	112.47	3/20/11	23:42	114.25	3/21/11	0:35	114.30
3/20/11	21:04	113.67	3/20/11	21:57	113.79	3/20/11	22:50	112.75	3/20/11	23:43	114.25	3/21/11	0:36	114.25
3/20/11	21:05	113.67	3/20/11	21:58	113.73	3/20/11	22:51	112.80	3/20/11	23:44	114.19	3/21/11	0:37	114.25
3/20/11	21:06	113.62	3/20/11	21:59	113.73	3/20/11	22:52	112.80	3/20/11	23:45	114.36	3/21/11	0:38	114.19
3/20/11	21:07	113.67	3/20/11	22:00	113.80	3/20/11	22:53	113.02	3/20/11	23:46	114.30	3/21/11	0:39	114.25
3/20/11	21:08	113.56	3/20/11	22:01	113.86	3/20/11	22:54	113.14	3/20/11	23:47	114.30	3/21/11	0:40	114.19
3/20/11	21:09	113.51	3/20/11	22:02	113.86	3/20/11	22:55	113.25	3/20/11	23:48	114.30	3/21/11	0:41	114.25
3/20/11	21:10	113.51	3/20/11	22:03	113.91	3/20/11	22:56	113.30	3/20/11	23:49	114.25	3/21/11	0:42	114.30
3/20/11	21:11	113.40	3/20/11	22:04	113.91	3/20/11	22:57	113.36	3/20/11	23:50	114.25	3/21/11	0:43	114.36
3/20/11	21:12	113.40	3/20/11	22:05	113.91	3/20/11	22:58	113.47	3/20/11	23:51	114.25	3/21/11	0:44	114.36
3/20/11	21:13	113.40	3/20/11	22:06	113.91	3/20/11	22:59	113.52	3/20/11	23:52	114.25	3/21/11	0:45	114.36
3/20/11	21:14	113.34	3/20/11	22:07	113.97	3/20/11	23:00	113.52	3/20/11	23:53	114.19	3/21/11	0:46	114.36
3/20/11	21:15	113.40	3/20/11	22:08	113.91	3/20/11	23:01	113.64	3/20/11	23:54	114.19	3/21/11	0:47	114.36
3/20/11	21:16	113.34	3/20/11	22:09	113.80	3/20/11	23:02	113.69	3/20/11	23:55	114.25	3/21/11	0:48	114.30
3/20/11	21:17	113.40	3/20/11	22:10	113.64	3/20/11	23:03	113.64	3/20/11	23:56	114.19	3/21/11	0:49	114.30
3/20/11	21:18	113.40	3/20/11	22:11	113.52	3/20/11	23:04	113.69	3/20/11	23:57	114.19	3/21/11	0:50	114.25
3/20/11	21:19	113.34	3/20/11	22:12	113.47	3/20/11	23:05	113.64	3/20/11	23:58	114.19	3/21/11	0:51	114.25
3/20/11	21:20	113.45	3/20/11	22:13	113.30	3/20/11	23:06	113.64	3/20/11	23:59	114.19	3/21/11	0:52	114.25
3/20/11	21:21	113.40	3/20/11	22:14	113.30	3/20/11	23:07	113.75	3/21/11	0:00	114.14	3/21/11	0:53	114.25
3/20/11	21:22	113.45	3/20/11	22:15	113.30	3/20/11	23:08	113.75	3/21/11	0:01	114.30	3/21/11	0:54	114.14
3/20/11	21:23	113.45	3/20/11	22:16	113.25	3/20/11	23:09	113.64	3/21/11	0:02	114.25	3/21/11	0:55	114.14
3/20/11	21:24	113.45	3/20/11	22:17	113.25	3/20/11	23:10	113.69	3/21/11	0:03	114.30	3/21/11	0:56	114.19
3/20/11	21:25	113.62	3/20/11	22:18	113.14	3/20/11	23:11	113.75	3/21/11	0:04	114.19	3/21/11	0:57	114.19
3/20/11	21:26	113.62	3/20/11	22:19	113.14	3/20/11	23:12	113.75	3/21/11	0:05	114.25	3/21/11	0:58	114.19
3/20/11	21:27	113.62	3/20/11	22:20	113.08	3/20/11	23:13	113.58	3/21/11	0:06	114.19	3/21/11	0:59	114.19
3/20/11	21:28	113.67	3/20/11	22:21	113.08	3/20/11	23:14	113.52	3/21/11	0:07	114.19	3/21/11	1:00	114.12
3/20/11	21:29	113.62	3/20/11	22:22	112.97	3/20/11	23:15	113.58	3/21/11	0:08	114.14	3/21/11	1:01	114.01
3/20/11	21:30	113.67	3/20/11	22:23	112.91	3/20/11	23:16	113.47	3/21/11	0:09	114.14	3/21/11	1:02	114.06
3/20/11	21:31	113.73	3/20/11	22:24	112.91	3/20/11	23:17	113.41	3/21/11	0:10	114.14	3/21/11	1:03	114.12
3/20/11	21:32	113.79	3/20/11	22:25	112.75	3/20/11	23:18	113.52	3/21/11	0:11	114.14	3/21/11	1:04	114.12
3/20/11	21:33	113.79	3/20/11	22:26	112.75	3/20/11	23:19	113.58	3/21/11	0:12	114.14	3/21/11	1:05	114.06
3/20/11	21:34	113.73	3/20/11	22:27	112.80	3/20/11	23:20	113.69	3/21/11	0:13	114.19	3/21/11	1:06	114.06
3/20/11	21:35	113.79	3/20/11	22:28	112.69	3/20/11	23:21	113.69	3/21/11	0:14	114.08	3/21/11	1:07	114.06
3/20/11	21:36	113.79	3/20/11	22:29	112.64	3/20/11	23:22	113.86	3/21/11	0:15	114.14	3/21/11	1:08	114.01
3/20/11	21:37	113.73	3/20/11	22:30	112.69	3/20/11	23:23	113.86	3/21/11	0:16	114.08	3/21/11	1:09	114.01

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	1:10	114.01	3/21/11	2:03	114.23	3/21/11	2:56	113.40	3/21/11	3:49	114.73	3/21/11	4:42	114.44
3/21/11	1:11	114.06	3/21/11	2:04	114.29	3/21/11	2:57	113.62	3/21/11	3:50	114.84	3/21/11	4:43	114.38
3/21/11	1:12	114.06	3/21/11	2:05	114.29	3/21/11	2:58	113.67	3/21/11	3:51	114.79	3/21/11	4:44	114.38
3/21/11	1:13	114.06	3/21/11	2:06	114.23	3/21/11	2:59	113.73	3/21/11	3:52	114.79	3/21/11	4:45	114.38
3/21/11	1:14	114.06	3/21/11	2:07	114.34	3/21/11	3:00	113.90	3/21/11	3:53	114.79	3/21/11	4:46	114.32
3/21/11	1:15	114.01	3/21/11	2:08	114.29	3/21/11	3:01	113.95	3/21/11	3:54	114.67	3/21/11	4:47	114.44
3/21/11	1:16	114.06	3/21/11	2:09	114.17	3/21/11	3:02	114.01	3/21/11	3:55	114.73	3/21/11	4:48	114.38
3/21/11	1:17	114.01	3/21/11	2:10	114.34	3/21/11	3:03	114.01	3/21/11	3:56	114.79	3/21/11	4:49	114.38
3/21/11	1:18	114.06	3/21/11	2:11	114.23	3/21/11	3:04	114.06	3/21/11	3:57	114.73	3/21/11	4:50	114.44
3/21/11	1:19	114.06	3/21/11	2:12	114.29	3/21/11	3:05	114.12	3/21/11	3:58	114.84	3/21/11	4:51	114.38
3/21/11	1:20	114.06	3/21/11	2:13	114.29	3/21/11	3:06	114.12	3/21/11	3:59	114.79	3/21/11	4:52	114.32
3/21/11	1:21	114.06	3/21/11	2:14	114.40	3/21/11	3:07	114.23	3/21/11	4:00	114.71	3/21/11	4:53	114.38
3/21/11	1:22	114.17	3/21/11	2:15	114.40	3/21/11	3:08	114.23	3/21/11	4:01	114.77	3/21/11	4:54	114.32
3/21/11	1:23	114.17	3/21/11	2:16	114.34	3/21/11	3:09	114.23	3/21/11	4:02	114.77	3/21/11	4:55	114.27
3/21/11	1:24	114.23	3/21/11	2:17	114.40	3/21/11	3:10	114.29	3/21/11	4:03	114.71	3/21/11	4:56	114.27
3/21/11	1:25	114.17	3/21/11	2:18	114.51	3/21/11	3:11	114.29	3/21/11	4:04	114.77	3/21/11	4:57	114.27
3/21/11	1:26	114.17	3/21/11	2:19	114.40	3/21/11	3:12	114.34	3/21/11	4:05	114.71	3/21/11	4:58	114.27
3/21/11	1:27	114.17	3/21/11	2:20	114.51	3/21/11	3:13	114.40	3/21/11	4:06	114.71	3/21/11	4:59	114.27
3/21/11	1:28	114.06	3/21/11	2:21	114.45	3/21/11	3:14	114.40	3/21/11	4:07	114.66	3/21/11	5:00	114.29
3/21/11	1:29	114.12	3/21/11	2:22	114.45	3/21/11	3:15	114.51	3/21/11	4:08	114.71	3/21/11	5:01	114.34
3/21/11	1:30	114.12	3/21/11	2:23	114.45	3/21/11	3:16	114.45	3/21/11	4:09	114.66	3/21/11	5:02	114.29
3/21/11	1:31	114.12	3/21/11	2:24	114.45	3/21/11	3:17	114.51	3/21/11	4:10	114.66	3/21/11	5:03	114.23
3/21/11	1:32	114.06	3/21/11	2:25	114.40	3/21/11	3:18	114.45	3/21/11	4:11	114.66	3/21/11	5:04	114.29
3/21/11	1:33	114.17	3/21/11	2:26	114.45	3/21/11	3:19	114.51	3/21/11	4:12	114.71	3/21/11	5:05	114.29
3/21/11	1:34	114.12	3/21/11	2:27	114.51	3/21/11	3:20	114.51	3/21/11	4:13	114.66	3/21/11	5:06	114.17
3/21/11	1:35	114.12	3/21/11	2:28	114.51	3/21/11	3:21	114.56	3/21/11	4:14	114.66	3/21/11	5:07	114.23
3/21/11	1:36	114.12	3/21/11	2:29	114.45	3/21/11	3:22	114.62	3/21/11	4:15	114.60	3/21/11	5:08	114.17
3/21/11	1:37	114.12	3/21/11	2:30	114.51	3/21/11	3:23	114.51	3/21/11	4:16	114.66	3/21/11	5:09	114.12
3/21/11	1:38	114.12	3/21/11	2:31	114.45	3/21/11	3:24	114.56	3/21/11	4:17	114.66	3/21/11	5:10	114.12
3/21/11	1:39	114.01	3/21/11	2:32	114.45	3/21/11	3:25	114.56	3/21/11	4:18	114.55	3/21/11	5:11	114.12
3/21/11	1:40	114.01	3/21/11	2:33	114.45	3/21/11	3:26	114.56	3/21/11	4:19	114.66	3/21/11	5:12	114.12
3/21/11	1:41	113.95	3/21/11	2:34	114.45	3/21/11	3:27	114.62	3/21/11	4:20	114.60	3/21/11	5:13	114.06
3/21/11	1:42	114.01	3/21/11	2:35	114.51	3/21/11	3:28	114.56	3/21/11	4:21	114.49	3/21/11	5:14	114.01
3/21/11	1:43	114.01	3/21/11	2:36	114.51	3/21/11	3:29	114.62	3/21/11	4:22	114.60	3/21/11	5:15	114.01
3/21/11	1:44	114.01	3/21/11	2:37	114.51	3/21/11	3:30	114.67	3/21/11	4:23	114.60	3/21/11	5:16	113.95
3/21/11	1:45	114.06	3/21/11	2:38	114.56	3/21/11	3:31	114.62	3/21/11	4:24	114.49	3/21/11	5:17	113.90
3/21/11	1:46	114.12	3/21/11	2:39	114.51	3/21/11	3:32	114.62	3/21/11	4:25	114.60	3/21/11	5:18	113.84
3/21/11	1:47	114.12	3/21/11	2:40	114.45	3/21/11	3:33	114.67	3/21/11	4:26	114.60	3/21/11	5:19	113.84
3/21/11	1:48	114.06	3/21/11	2:41	114.45	3/21/11	3:34	114.67	3/21/11	4:27	114.60	3/21/11	5:20	113.67
3/21/11	1:49	114.17	3/21/11	2:42	114.45	3/21/11	3:35	114.56	3/21/11	4:28	114.49	3/21/11	5:21	113.73
3/21/11	1:50	114.12	3/21/11	2:43	114.45	3/21/11	3:36	114.62	3/21/11	4:29	114.49	3/21/11	5:22	113.67
3/21/11	1:51	114.17	3/21/11	2:44	114.51	3/21/11	3:37	114.67	3/21/11	4:30	114.49	3/21/11	5:23	113.62
3/21/11	1:52	114.17	3/21/11	2:45	114.56	3/21/11	3:38	114.62	3/21/11	4:31	114.49	3/21/11	5:24	113.62
3/21/11	1:53	114.12	3/21/11	2:46	114.40	3/21/11	3:39	114.62	3/21/11	4:32	114.49	3/21/11	5:25	113.56
3/21/11	1:54	114.06	3/21/11	2:47	114.51	3/21/11	3:40	114.62	3/21/11	4:33	114.49	3/21/11	5:26	113.62
3/21/11	1:55	114.06	3/21/11	2:48	114.23	3/21/11	3:41	114.62	3/21/11	4:34	114.44	3/21/11	5:27	113.51
3/21/11	1:56	114.12	3/21/11	2:49	113.95	3/21/11	3:42	114.67	3/21/11	4:35	114.44	3/21/11	5:28	113.56
3/21/11	1:57	114.06	3/21/11	2:50	113.67	3/21/11	3:43	114.67	3/21/11	4:36	114.49	3/21/11	5:29	113.45
3/21/11	1:58	114.17	3/21/11	2:51	113.56	3/21/11	3:44	114.62	3/21/11	4:37	114.49	3/21/11	5:30	113.51
3/21/11	1:59	114.23	3/21/11	2:52	113.34	3/21/11	3:45	114.67	3/21/11	4:38	114.44	3/21/11	5:31	113.45
3/21/11	2:00	114.23	3/21/11	2:53	113.23	3/21/11	3:46	114.67	3/21/11	4:39	114.38	3/21/11	5:32	113.40
3/21/11	2:01	114.23	3/21/11	2:54	113.06	3/21/11	3:47	114.73	3/21/11	4:40	114.44	3/21/11	5:33	113.34
3/21/11	2:02	114.29	3/21/11	2:55	113.34	3/21/11	3:48	114.79	3/21/11	4:41	114.49	3/21/11	5:34	113.29

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	5:35	113.23	3/21/11	6:28	114.64	3/21/11	7:21	114.04	3/21/11	8:14	114.22	3/21/11	9:07	114.80
3/21/11	5:36	113.17	3/21/11	6:29	114.69	3/21/11	7:22	114.10	3/21/11	8:15	114.28	3/21/11	9:08	114.80
3/21/11	5:37	113.23	3/21/11	6:30	114.58	3/21/11	7:23	114.04	3/21/11	8:16	114.06	3/21/11	9:09	114.80
3/21/11	5:38	113.12	3/21/11	6:31	114.64	3/21/11	7:24	114.10	3/21/11	8:17	114.11	3/21/11	9:10	114.74
3/21/11	5:39	113.17	3/21/11	6:32	114.69	3/21/11	7:25	114.15	3/21/11	8:18	114.06	3/21/11	9:11	114.80
3/21/11	5:40	113.01	3/21/11	6:33	114.75	3/21/11	7:26	114.15	3/21/11	8:19	114.06	3/21/11	9:12	114.80
3/21/11	5:41	113.06	3/21/11	6:34	114.75	3/21/11	7:27	114.10	3/21/11	8:20	114.11	3/21/11	9:13	114.80
3/21/11	5:42	113.06	3/21/11	6:35	114.75	3/21/11	7:28	114.10	3/21/11	8:21	114.00	3/21/11	9:14	114.80
3/21/11	5:43	113.12	3/21/11	6:36	114.75	3/21/11	7:29	114.10	3/21/11	8:22	114.67	3/21/11	9:15	114.80
3/21/11	5:44	113.23	3/21/11	6:37	114.69	3/21/11	7:30	114.10	3/21/11	8:23	114.11	3/21/11	9:16	114.74
3/21/11	5:45	113.23	3/21/11	6:38	114.75	3/21/11	7:31	114.15	3/21/11	8:24	114.11	3/21/11	9:17	114.74
3/21/11	5:46	113.34	3/21/11	6:39	114.80	3/21/11	7:32	114.15	3/21/11	8:25	114.06	3/21/11	9:18	114.80
3/21/11	5:47	113.51	3/21/11	6:40	114.86	3/21/11	7:33	114.10	3/21/11	8:26	114.11	3/21/11	9:19	114.80
3/21/11	5:48	113.56	3/21/11	6:41	114.91	3/21/11	7:34	114.15	3/21/11	8:27	114.06	3/21/11	9:20	114.80
3/21/11	5:49	113.62	3/21/11	6:42	114.91	3/21/11	7:35	114.15	3/21/11	8:28	114.00	3/21/11	9:21	114.69
3/21/11	5:50	113.62	3/21/11	6:43	114.80	3/21/11	7:36	114.04	3/21/11	8:29	114.00	3/21/11	9:22	114.74
3/21/11	5:51	113.62	3/21/11	6:44	114.75	3/21/11	7:37	113.99	3/21/11	8:30	114.06	3/21/11	9:23	114.80
3/21/11	5:52	113.67	3/21/11	6:45	114.64	3/21/11	7:38	114.10	3/21/11	8:31	114.00	3/21/11	9:24	114.74
3/21/11	5:53	113.79	3/21/11	6:46	114.64	3/21/11	7:39	114.04	3/21/11	8:32	114.06	3/21/11	9:25	114.74
3/21/11	5:54	113.79	3/21/11	6:47	114.58	3/21/11	7:40	114.04	3/21/11	8:33	113.95	3/21/11	9:26	114.69
3/21/11	5:55	113.79	3/21/11	6:48	114.58	3/21/11	7:41	114.04	3/21/11	8:34	113.89	3/21/11	9:27	114.63
3/21/11	5:56	113.79	3/21/11	6:49	114.52	3/21/11	7:42	114.10	3/21/11	8:35	113.89	3/21/11	9:28	114.69
3/21/11	5:57	113.90	3/21/11	6:50	114.47	3/21/11	7:43	114.04	3/21/11	8:36	113.84	3/21/11	9:29	114.63
3/21/11	5:58	113.90	3/21/11	6:51	114.52	3/21/11	7:44	114.04	3/21/11	8:37	113.89	3/21/11	9:30	114.57
3/21/11	5:59	113.90	3/21/11	6:52	114.47	3/21/11	7:45	114.15	3/21/11	8:38	113.89	3/21/11	9:31	114.57
3/21/11	6:00	114.08	3/21/11	6:53	114.47	3/21/11	7:46	114.21	3/21/11	8:39	113.89	3/21/11	9:32	114.63
3/21/11	6:01	114.08	3/21/11	6:54	114.47	3/21/11	7:47	114.15	3/21/11	8:40	114.00	3/21/11	9:33	114.57
3/21/11	6:02	114.14	3/21/11	6:55	114.47	3/21/11	7:48	114.10	3/21/11	8:41	114.06	3/21/11	9:34	114.52
3/21/11	6:03	114.19	3/21/11	6:56	114.64	3/21/11	7:49	114.10	3/21/11	8:42	114.11	3/21/11	9:35	114.52
3/21/11	6:04	114.25	3/21/11	6:57	114.52	3/21/11	7:50	114.04	3/21/11	8:43	114.11	3/21/11	9:36	114.52
3/21/11	6:05	114.36	3/21/11	6:58	114.47	3/21/11	7:51	114.04	3/21/11	8:44	114.11	3/21/11	9:37	114.52
3/21/11	6:06	114.30	3/21/11	6:59	114.52	3/21/11	7:52	114.04	3/21/11	8:45	114.11	3/21/11	9:38	114.52
3/21/11	6:07	114.30	3/21/11	7:00	114.43	3/21/11	7:53	114.10	3/21/11	8:46	114.11	3/21/11	9:39	114.52
3/21/11	6:08	114.41	3/21/11	7:01	114.43	3/21/11	7:54	113.87	3/21/11	8:47	114.11	3/21/11	9:40	114.46
3/21/11	6:09	114.41	3/21/11	7:02	114.43	3/21/11	7:55	113.99	3/21/11	8:48	114.17	3/21/11	9:41	114.46
3/21/11	6:10	114.47	3/21/11	7:03	114.49	3/21/11	7:56	113.99	3/21/11	8:49	114.39	3/21/11	9:42	114.57
3/21/11	6:11	114.52	3/21/11	7:04	114.37	3/21/11	7:57	113.93	3/21/11	8:50	114.34	3/21/11	9:43	114.52
3/21/11	6:12	114.64	3/21/11	7:05	114.37	3/21/11	7:58	114.04	3/21/11	8:51	114.39	3/21/11	9:44	114.57
3/21/11	6:13	114.52	3/21/11	7:06	114.37	3/21/11	7:59	114.15	3/21/11	8:52	114.50	3/21/11	9:45	114.52
3/21/11	6:14	114.69	3/21/11	7:07	114.43	3/21/11	8:00	114.17	3/21/11	8:53	114.45	3/21/11	9:46	114.57
3/21/11	6:15	114.75	3/21/11	7:08	114.37	3/21/11	8:01	114.22	3/21/11	8:54	114.56	3/21/11	9:47	114.57
3/21/11	6:16	114.75	3/21/11	7:09	114.37	3/21/11	8:02	114.39	3/21/11	8:55	114.61	3/21/11	9:48	114.57
3/21/11	6:17	114.69	3/21/11	7:10	114.37	3/21/11	8:03	114.34	3/21/11	8:56	114.61	3/21/11	9:49	114.46
3/21/11	6:18	114.75	3/21/11	7:11	114.43	3/21/11	8:04	114.28	3/21/11	8:57	114.61	3/21/11	9:50	114.57
3/21/11	6:19	114.69	3/21/11	7:12	114.37	3/21/11	8:05	114.22	3/21/11	8:58	114.61	3/21/11	9:51	114.46
3/21/11	6:20	114.75	3/21/11	7:13	114.37	3/21/11	8:06	114.22	3/21/11	8:59	114.72	3/21/11	9:52	114.52
3/21/11	6:21	114.75	3/21/11	7:14	114.21	3/21/11	8:07	114.17	3/21/11	9:00	114.74	3/21/11	9:53	114.46
3/21/11	6:22	114.75	3/21/11	7:15	114.21	3/21/11	8:08	114.17	3/21/11	9:01	114.74	3/21/11	9:54	114.41
3/21/11	6:23	114.69	3/21/11	7:16	114.26	3/21/11	8:09	114.17	3/21/11	9:02	114.85	3/21/11	9:55	114.35
3/21/11	6:24	114.58	3/21/11	7:17	114.21	3/21/11	8:10	114.22	3/21/11	9:03	114.80	3/21/11	9:56	114.41
3/21/11	6:25	114.52	3/21/11	7:18	114.21	3/21/11	8:11	114.22	3/21/11	9:04	114.80	3/21/11	9:57	114.41
3/21/11	6:26	114.64	3/21/11	7:19	114.10	3/21/11	8:12	114.22	3/21/11	9:05	114.74	3/21/11	9:58	114.46
3/21/11	6:27	114.64	3/21/11	7:20	114.15	3/21/11	8:13	114.22	3/21/11	9:06	114.74	3/21/11	9:59	114.46

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	10:00	114.37	3/21/11	10:53	114.42	3/21/11	11:46	114.19	3/21/11	12:39	114.50	3/21/11	13:32	114.10
3/21/11	10:01	114.37	3/21/11	10:54	114.42	3/21/11	11:47	114.24	3/21/11	12:40	114.45	3/21/11	13:33	114.21
3/21/11	10:02	114.48	3/21/11	10:55	114.37	3/21/11	11:48	114.19	3/21/11	12:41	114.50	3/21/11	13:34	114.15
3/21/11	10:03	114.42	3/21/11	10:56	114.42	3/21/11	11:49	114.19	3/21/11	12:42	114.50	3/21/11	13:35	114.15
3/21/11	10:04	114.37	3/21/11	10:57	114.48	3/21/11	11:50	114.24	3/21/11	12:43	114.45	3/21/11	13:36	114.21
3/21/11	10:05	114.42	3/21/11	10:58	114.48	3/21/11	11:51	114.24	3/21/11	12:44	114.50	3/21/11	13:37	114.21
3/21/11	10:06	114.42	3/21/11	10:59	114.53	3/21/11	11:52	114.24	3/21/11	12:45	114.45	3/21/11	13:38	114.15
3/21/11	10:07	114.31	3/21/11	11:00	114.52	3/21/11	11:53	114.19	3/21/11	12:46	114.45	3/21/11	13:39	114.21
3/21/11	10:08	114.37	3/21/11	11:01	114.46	3/21/11	11:54	114.24	3/21/11	12:47	114.50	3/21/11	13:40	114.21
3/21/11	10:09	114.48	3/21/11	11:02	114.52	3/21/11	11:55	114.24	3/21/11	12:48	114.50	3/21/11	13:41	114.15
3/21/11	10:10	114.42	3/21/11	11:03	114.46	3/21/11	11:56	114.24	3/21/11	12:49	114.50	3/21/11	13:42	114.15
3/21/11	10:11	114.48	3/21/11	11:04	114.46	3/21/11	11:57	114.19	3/21/11	12:50	114.50	3/21/11	13:43	114.10
3/21/11	10:12	114.42	3/21/11	11:05	114.46	3/21/11	11:58	114.30	3/21/11	12:51	114.61	3/21/11	13:44	114.10
3/21/11	10:13	114.48	3/21/11	11:06	114.35	3/21/11	11:59	114.24	3/21/11	12:52	114.45	3/21/11	13:45	114.15
3/21/11	10:14	114.53	3/21/11	11:07	114.52	3/21/11	12:00	114.34	3/21/11	12:53	114.50	3/21/11	13:46	114.15
3/21/11	10:15	114.37	3/21/11	11:08	114.46	3/21/11	12:01	114.28	3/21/11	12:54	114.50	3/21/11	13:47	114.10
3/21/11	10:16	114.48	3/21/11	11:09	114.46	3/21/11	12:02	114.28	3/21/11	12:55	114.56	3/21/11	13:48	114.10
3/21/11	10:17	114.53	3/21/11	11:10	114.35	3/21/11	12:03	114.34	3/21/11	12:56	114.50	3/21/11	13:49	114.10
3/21/11	10:18	114.48	3/21/11	11:11	114.46	3/21/11	12:04	114.28	3/21/11	12:57	114.39	3/21/11	13:50	114.10
3/21/11	10:19	114.42	3/21/11	11:12	114.46	3/21/11	12:05	114.34	3/21/11	12:58	114.56	3/21/11	13:51	114.04
3/21/11	10:20	114.48	3/21/11	11:13	114.41	3/21/11	12:06	114.34	3/21/11	12:59	114.50	3/21/11	13:52	114.04
3/21/11	10:21	114.42	3/21/11	11:14	114.35	3/21/11	12:07	114.45	3/21/11	13:00	114.43	3/21/11	13:53	113.93
3/21/11	10:22	114.37	3/21/11	11:15	114.35	3/21/11	12:08	114.39	3/21/11	13:01	114.49	3/21/11	13:54	114.04
3/21/11	10:23	114.37	3/21/11	11:16	114.30	3/21/11	12:09	114.45	3/21/11	13:02	114.37	3/21/11	13:55	114.04
3/21/11	10:24	114.37	3/21/11	11:17	114.41	3/21/11	12:10	114.45	3/21/11	13:03	114.32	3/21/11	13:56	114.04
3/21/11	10:25	114.37	3/21/11	11:18	114.30	3/21/11	12:11	114.45	3/21/11	13:04	114.43	3/21/11	13:57	113.99
3/21/11	10:26	114.42	3/21/11	11:19	114.35	3/21/11	12:12	114.39	3/21/11	13:05	114.37	3/21/11	13:58	114.04
3/21/11	10:27	114.31	3/21/11	11:20	114.30	3/21/11	12:13	114.45	3/21/11	13:06	114.32	3/21/11	13:59	114.04
3/21/11	10:28	114.37	3/21/11	11:21	114.35	3/21/11	12:14	114.39	3/21/11	13:07	114.26	3/21/11	14:00	114.08
3/21/11	10:29	114.48	3/21/11	11:22	114.24	3/21/11	12:15	114.39	3/21/11	13:08	114.32	3/21/11	14:01	114.02
3/21/11	10:30	114.48	3/21/11	11:23	114.30	3/21/11	12:16	114.39	3/21/11	13:09	114.32	3/21/11	14:02	114.08
3/21/11	10:31	114.53	3/21/11	11:24	114.30	3/21/11	12:17	114.39	3/21/11	13:10	114.32	3/21/11	14:03	114.08
3/21/11	10:32	114.53	3/21/11	11:25	114.35	3/21/11	12:18	114.39	3/21/11	13:11	114.26	3/21/11	14:04	114.14
3/21/11	10:33	114.42	3/21/11	11:26	114.30	3/21/11	12:19	114.34	3/21/11	13:12	114.26	3/21/11	14:05	113.97
3/21/11	10:34	114.53	3/21/11	11:27	114.30	3/21/11	12:20	114.34	3/21/11	13:13	114.21	3/21/11	14:06	114.02
3/21/11	10:35	114.53	3/21/11	11:28	114.35	3/21/11	12:21	114.34	3/21/11	13:14	114.15	3/21/11	14:07	114.08
3/21/11	10:36	114.59	3/21/11	11:29	114.30	3/21/11	12:22	114.34	3/21/11	13:15	114.10	3/21/11	14:08	114.08
3/21/11	10:37	114.48	3/21/11	11:30	114.24	3/21/11	12:23	114.39	3/21/11	13:16	114.15	3/21/11	14:09	114.08
3/21/11	10:38	114.59	3/21/11	11:31	114.30	3/21/11	12:24	114.39	3/21/11	13:17	114.10	3/21/11	14:10	114.08
3/21/11	10:39	114.48	3/21/11	11:32	114.24	3/21/11	12:25	114.39	3/21/11	13:18	114.04	3/21/11	14:11	114.08
3/21/11	10:40	114.59	3/21/11	11:33	114.30	3/21/11	12:26	114.39	3/21/11	13:19	114.10	3/21/11	14:12	114.02
3/21/11	10:41	114.53	3/21/11	11:34	114.30	3/21/11	12:27	114.28	3/21/11	13:20	114.10	3/21/11	14:13	114.08
3/21/11	10:42	114.59	3/21/11	11:35	114.24	3/21/11	12:28	114.39	3/21/11	13:21	114.15	3/21/11	14:14	113.97
3/21/11	10:43	114.53	3/21/11	11:36	114.24	3/21/11	12:29	114.34	3/21/11	13:22	114.15	3/21/11	14:15	114.08
3/21/11	10:44	114.48	3/21/11	11:37	114.24	3/21/11	12:30	114.34	3/21/11	13:23	114.15	3/21/11	14:16	114.02
3/21/11	10:45	114.53	3/21/11	11:38	114.30	3/21/11	12:31	114.45	3/21/11	13:24	114.10	3/21/11	14:17	114.02
3/21/11	10:46	114.48	3/21/11	11:39	114.30	3/21/11	12:32	114.39	3/21/11	13:25	114.21	3/21/11	14:18	113.91
3/21/11	10:47	114.48	3/21/11	11:40	114.24	3/21/11	12:33	114.39	3/21/11	13:26	114.15	3/21/11	14:19	113.91
3/21/11	10:48	114.48	3/21/11	11:41	114.24	3/21/11	12:34	114.34	3/21/11	13:27	114.15	3/21/11	14:20	113.97
3/21/11	10:49	114.42	3/21/11	11:42	114.30	3/21/11	12:35	114.39	3/21/11	13:28	114.10	3/21/11	14:21	113.91
3/21/11	10:50	114.37	3/21/11	11:43	114.24	3/21/11	12:36	114.39	3/21/11	13:29	114.15	3/21/11	14:22	113.91
3/21/11	10:51	114.42	3/21/11	11:44	114.30	3/21/11	12:37	114.39	3/21/11	13:30	114.21	3/21/11	14:23	113.91
3/21/11	10:52	114.37	3/21/11	11:45	114.24	3/21/11	12:38	114.45	3/21/11	13:31	114.21	3/21/11	14:24	113.91

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	14:25	113.91	3/21/11	15:18	114.32	3/21/11	16:11	42.96	3/21/11	17:04	33.50	3/21/11	17:57	31.05
3/21/11	14:26	113.97	3/21/11	15:19	114.38	3/21/11	16:12	42.51	3/21/11	17:05	33.44	3/21/11	17:58	31.00
3/21/11	14:27	113.91	3/21/11	15:20	114.27	3/21/11	16:13	42.07	3/21/11	17:06	33.39	3/21/11	17:59	31.00
3/21/11	14:28	113.97	3/21/11	15:21	114.27	3/21/11	16:14	41.68	3/21/11	17:07	33.28	3/21/11	18:00	30.93
3/21/11	14:29	113.91	3/21/11	15:22	114.38	3/21/11	16:15	41.29	3/21/11	17:08	33.28	3/21/11	18:01	30.87
3/21/11	14:30	113.97	3/21/11	15:23	114.38	3/21/11	16:16	40.90	3/21/11	17:09	33.16	3/21/11	18:02	30.87
3/21/11	14:31	113.97	3/21/11	15:24	114.32	3/21/11	16:17	40.57	3/21/11	17:10	33.11	3/21/11	18:03	30.81
3/21/11	14:32	114.02	3/21/11	15:25	114.27	3/21/11	16:18	40.29	3/21/11	17:11	33.05	3/21/11	18:04	30.81
3/21/11	14:33	113.97	3/21/11	15:26	114.32	3/21/11	16:19	39.90	3/21/11	17:12	33.00	3/21/11	18:05	30.76
3/21/11	14:34	113.91	3/21/11	15:27	114.32	3/21/11	16:20	39.62	3/21/11	17:13	32.94	3/21/11	18:06	30.70
3/21/11	14:35	113.97	3/21/11	15:28	114.38	3/21/11	16:21	39.35	3/21/11	17:14	32.89	3/21/11	18:07	30.70
3/21/11	14:36	113.97	3/21/11	15:29	114.38	3/21/11	16:22	39.07	3/21/11	17:15	32.83	3/21/11	18:08	30.65
3/21/11	14:37	113.97	3/21/11	15:30	114.27	3/21/11	16:23	38.79	3/21/11	17:16	32.78	3/21/11	18:09	30.65
3/21/11	14:38	113.91	3/21/11	15:31	114.32	3/21/11	16:24	38.57	3/21/11	17:17	32.72	3/21/11	18:10	30.59
3/21/11	14:39	113.97	3/21/11	15:32	114.32	3/21/11	16:25	38.35	3/21/11	17:18	32.66	3/21/11	18:11	30.59
3/21/11	14:40	114.02	3/21/11	15:33	114.27	3/21/11	16:26	38.12	3/21/11	17:19	32.61	3/21/11	18:12	30.54
3/21/11	14:41	114.02	3/21/11	15:34	114.32	3/21/11	16:27	37.90	3/21/11	17:20	32.55	3/21/11	18:13	30.54
3/21/11	14:42	114.02	3/21/11	15:35	114.32	3/21/11	16:28	37.68	3/21/11	17:21	32.50	3/21/11	18:14	30.48
3/21/11	14:43	113.97	3/21/11	15:36	114.38	3/21/11	16:29	37.51	3/21/11	17:22	32.44	3/21/11	18:15	30.48
3/21/11	14:44	114.08	3/21/11	15:37	104.60	3/21/11	16:30	37.29	3/21/11	17:23	32.44	3/21/11	18:16	30.43
3/21/11	14:45	114.08	3/21/11	15:38	95.71	3/21/11	16:31	37.12	3/21/11	17:24	32.33	3/21/11	18:17	30.43
3/21/11	14:46	114.08	3/21/11	15:39	91.27	3/21/11	16:32	36.96	3/21/11	17:25	32.28	3/21/11	18:18	30.37
3/21/11	14:47	114.08	3/21/11	15:40	87.27	3/21/11	16:33	36.79	3/21/11	17:26	32.28	3/21/11	18:19	30.37
3/21/11	14:48	114.08	3/21/11	15:41	83.60	3/21/11	16:34	36.62	3/21/11	17:27	32.16	3/21/11	18:20	30.31
3/21/11	14:49	114.02	3/21/11	15:42	80.27	3/21/11	16:35	36.46	3/21/11	17:28	32.16	3/21/11	18:21	30.26
3/21/11	14:50	114.08	3/21/11	15:43	77.10	3/21/11	16:36	36.29	3/21/11	17:29	32.11	3/21/11	18:22	30.26
3/21/11	14:51	114.02	3/21/11	15:44	74.27	3/21/11	16:37	36.18	3/21/11	17:30	32.05	3/21/11	18:23	30.26
3/21/11	14:52	114.02	3/21/11	15:45	71.66	3/21/11	16:38	36.07	3/21/11	17:31	32.00	3/21/11	18:24	30.20
3/21/11	14:53	114.08	3/21/11	15:46	69.32	3/21/11	16:39	35.90	3/21/11	17:32	32.00	3/21/11	18:25	30.20
3/21/11	14:54	114.08	3/21/11	15:47	67.55	3/21/11	16:40	35.79	3/21/11	17:33	31.94	3/21/11	18:26	30.15
3/21/11	14:55	114.02	3/21/11	15:48	65.77	3/21/11	16:41	35.62	3/21/11	17:34	31.89	3/21/11	18:27	30.15
3/21/11	14:56	114.02	3/21/11	15:49	64.10	3/21/11	16:42	35.51	3/21/11	17:35	31.83	3/21/11	18:28	30.15
3/21/11	14:57	114.08	3/21/11	15:50	62.55	3/21/11	16:43	35.40	3/21/11	17:36	31.83	3/21/11	18:29	30.09
3/21/11	14:58	114.14	3/21/11	15:51	60.99	3/21/11	16:44	35.29	3/21/11	17:37	31.78	3/21/11	18:30	30.04
3/21/11	14:59	114.08	3/21/11	15:52	59.49	3/21/11	16:45	35.18	3/21/11	17:38	31.72	3/21/11	18:31	30.04
3/21/11	15:00	114.05	3/21/11	15:53	57.94	3/21/11	16:46	35.07	3/21/11	17:39	31.66	3/21/11	18:32	30.04
3/21/11	15:01	114.16	3/21/11	15:54	56.60	3/21/11	16:47	34.96	3/21/11	17:40	31.61	3/21/11	18:33	29.98
3/21/11	15:02	114.10	3/21/11	15:55	55.32	3/21/11	16:48	34.85	3/21/11	17:41	31.61	3/21/11	18:34	29.98
3/21/11	15:03	114.05	3/21/11	15:56	54.16	3/21/11	16:49	34.74	3/21/11	17:42	31.55	3/21/11	18:35	29.93
3/21/11	15:04	114.05	3/21/11	15:57	53.05	3/21/11	16:50	34.68	3/21/11	17:43	31.50	3/21/11	18:36	29.93
3/21/11	15:05	114.16	3/21/11	15:58	51.99	3/21/11	16:51	34.57	3/21/11	17:44	31.50	3/21/11	18:37	29.93
3/21/11	15:06	114.16	3/21/11	15:59	50.99	3/21/11	16:52	34.46	3/21/11	17:45	31.44	3/21/11	18:38	29.93
3/21/11	15:07	114.16	3/21/11	16:00	50.07	3/21/11	16:53	34.40	3/21/11	17:46	31.39	3/21/11	18:39	29.81
3/21/11	15:08	114.10	3/21/11	16:01	49.18	3/21/11	16:54	34.29	3/21/11	17:47	31.39	3/21/11	18:40	29.81
3/21/11	15:09	114.16	3/21/11	16:02	48.40	3/21/11	16:55	34.18	3/21/11	17:48	31.33	3/21/11	18:41	29.81
3/21/11	15:10	114.10	3/21/11	16:03	47.62	3/21/11	16:56	34.12	3/21/11	17:49	31.28	3/21/11	18:42	29.81
3/21/11	15:11	114.21	3/21/11	16:04	46.96	3/21/11	16:57	34.07	3/21/11	17:50	31.28	3/21/11	18:43	29.76
3/21/11	15:12	114.16	3/21/11	16:05	46.24	3/21/11	16:58	33.96	3/21/11	17:51	31.28	3/21/11	18:44	29.76
3/21/11	15:13	114.27	3/21/11	16:06	45.57	3/21/11	16:59	33.85	3/21/11	17:52	31.16	3/21/11	18:45	29.70
3/21/11	15:14	114.21	3/21/11	16:07	44.96	3/21/11	17:00	33.78	3/21/11	17:53	31.16	3/21/11	18:46	29.70
3/21/11	15:15	114.21	3/21/11	16:08	44.46	3/21/11	17:01	33.72	3/21/11	17:54	31.11	3/21/11	18:47	29.65
3/21/11	15:16	114.16	3/21/11	16:09	43.90	3/21/11	17:02	33.61	3/21/11	17:55	31.05	3/21/11	18:48	29.65
3/21/11	15:17	114.27	3/21/11	16:10	43.40	3/21/11	17:03	33.55	3/21/11	17:56	31.05	3/21/11	18:49	29.59

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	18:50	29.59	3/21/11	19:43	28.66	3/21/11	20:36	27.98	3/21/11	21:29	27.49	3/21/11	22:22	27.12
3/21/11	18:51	29.59	3/21/11	19:44	28.66	3/21/11	20:37	27.98	3/21/11	21:30	27.49	3/21/11	22:23	27.06
3/21/11	18:52	29.59	3/21/11	19:45	28.61	3/21/11	20:38	27.98	3/21/11	21:31	27.44	3/21/11	22:24	27.06
3/21/11	18:53	29.54	3/21/11	19:46	28.61	3/21/11	20:39	27.98	3/21/11	21:32	27.44	3/21/11	22:25	27.06
3/21/11	18:54	29.54	3/21/11	19:47	28.61	3/21/11	20:40	27.92	3/21/11	21:33	27.44	3/21/11	22:26	27.06
3/21/11	18:55	29.48	3/21/11	19:48	28.61	3/21/11	20:41	27.92	3/21/11	21:34	27.44	3/21/11	22:27	27.06
3/21/11	18:56	29.48	3/21/11	19:49	28.61	3/21/11	20:42	27.92	3/21/11	21:35	27.44	3/21/11	22:28	27.06
3/21/11	18:57	29.48	3/21/11	19:50	28.55	3/21/11	20:43	27.92	3/21/11	21:36	27.38	3/21/11	22:29	27.06
3/21/11	18:58	29.43	3/21/11	19:51	28.55	3/21/11	20:44	27.92	3/21/11	21:37	27.44	3/21/11	22:30	27.01
3/21/11	18:59	29.43	3/21/11	19:52	28.50	3/21/11	20:45	27.86	3/21/11	21:38	27.38	3/21/11	22:31	27.01
3/21/11	19:00	29.44	3/21/11	19:53	28.50	3/21/11	20:46	27.86	3/21/11	21:39	27.38	3/21/11	22:32	27.01
3/21/11	19:01	29.39	3/21/11	19:54	28.50	3/21/11	20:47	27.86	3/21/11	21:40	27.38	3/21/11	22:33	27.01
3/21/11	19:02	29.39	3/21/11	19:55	28.50	3/21/11	20:48	27.86	3/21/11	21:41	27.38	3/21/11	22:34	27.01
3/21/11	19:03	29.39	3/21/11	19:56	28.50	3/21/11	20:49	27.86	3/21/11	21:42	27.32	3/21/11	22:35	27.01
3/21/11	19:04	29.33	3/21/11	19:57	28.44	3/21/11	20:50	27.86	3/21/11	21:43	27.38	3/21/11	22:36	27.01
3/21/11	19:05	29.33	3/21/11	19:58	28.44	3/21/11	20:51	27.86	3/21/11	21:44	27.38	3/21/11	22:37	27.01
3/21/11	19:06	29.33	3/21/11	19:59	28.44	3/21/11	20:52	27.81	3/21/11	21:45	27.32	3/21/11	22:38	27.01
3/21/11	19:07	29.28	3/21/11	20:00	28.42	3/21/11	20:53	27.81	3/21/11	21:46	27.32	3/21/11	22:39	27.01
3/21/11	19:08	29.28	3/21/11	20:01	28.42	3/21/11	20:54	27.81	3/21/11	21:47	27.32	3/21/11	22:40	26.95
3/21/11	19:09	29.28	3/21/11	20:02	28.42	3/21/11	20:55	27.81	3/21/11	21:48	27.32	3/21/11	22:41	26.95
3/21/11	19:10	29.22	3/21/11	20:03	28.42	3/21/11	20:56	27.75	3/21/11	21:49	27.32	3/21/11	22:42	26.95
3/21/11	19:11	29.22	3/21/11	20:04	28.42	3/21/11	20:57	27.75	3/21/11	21:50	27.32	3/21/11	22:43	26.95
3/21/11	19:12	29.16	3/21/11	20:05	28.36	3/21/11	20:58	27.75	3/21/11	21:51	27.27	3/21/11	22:44	26.95
3/21/11	19:13	29.16	3/21/11	20:06	28.36	3/21/11	20:59	27.75	3/21/11	21:52	27.27	3/21/11	22:45	26.95
3/21/11	19:14	29.16	3/21/11	20:07	28.36	3/21/11	21:00	27.77	3/21/11	21:53	27.27	3/21/11	22:46	26.95
3/21/11	19:15	29.11	3/21/11	20:08	28.31	3/21/11	21:01	27.71	3/21/11	21:54	27.27	3/21/11	22:47	26.90
3/21/11	19:16	29.11	3/21/11	20:09	28.31	3/21/11	21:02	27.71	3/21/11	21:55	27.27	3/21/11	22:48	26.90
3/21/11	19:17	29.11	3/21/11	20:10	28.31	3/21/11	21:03	27.71	3/21/11	21:56	27.21	3/21/11	22:49	26.90
3/21/11	19:18	29.05	3/21/11	20:11	28.31	3/21/11	21:04	27.71	3/21/11	21:57	27.21	3/21/11	22:50	26.90
3/21/11	19:19	29.05	3/21/11	20:12	28.31	3/21/11	21:05	27.71	3/21/11	21:58	27.21	3/21/11	22:51	26.90
3/21/11	19:20	29.05	3/21/11	20:13	28.31	3/21/11	21:06	27.66	3/21/11	21:59	27.21	3/21/11	22:52	26.90
3/21/11	19:21	29.05	3/21/11	20:14	28.25	3/21/11	21:07	27.66	3/21/11	22:00	27.23	3/21/11	22:53	26.90
3/21/11	19:22	29.05	3/21/11	20:15	28.25	3/21/11	21:08	27.66	3/21/11	22:01	27.23	3/21/11	22:54	26.90
3/21/11	19:23	29.00	3/21/11	20:16	28.25	3/21/11	21:09	27.66	3/21/11	22:02	27.23	3/21/11	22:55	26.90
3/21/11	19:24	29.00	3/21/11	20:17	28.20	3/21/11	21:10	27.66	3/21/11	22:03	27.23	3/21/11	22:56	26.90
3/21/11	19:25	28.94	3/21/11	20:18	28.20	3/21/11	21:11	27.66	3/21/11	22:04	27.23	3/21/11	22:57	26.84
3/21/11	19:26	28.94	3/21/11	20:19	28.20	3/21/11	21:12	27.66	3/21/11	22:05	27.23	3/21/11	22:58	26.84
3/21/11	19:27	28.94	3/21/11	20:20	28.20	3/21/11	21:13	27.66	3/21/11	22:06	27.17	3/21/11	22:59	26.84
3/21/11	19:28	28.94	3/21/11	20:21	28.20	3/21/11	21:14	27.60	3/21/11	22:07	27.17	3/21/11	23:00	26.82
3/21/11	19:29	28.89	3/21/11	20:22	28.14	3/21/11	21:15	27.60	3/21/11	22:08	27.23	3/21/11	23:01	26.82
3/21/11	19:30	28.89	3/21/11	20:23	28.14	3/21/11	21:16	27.60	3/21/11	22:09	27.17	3/21/11	23:02	26.82
3/21/11	19:31	28.89	3/21/11	20:24	28.14	3/21/11	21:17	27.60	3/21/11	22:10	27.17	3/21/11	23:03	26.77
3/21/11	19:32	28.83	3/21/11	20:25	28.14	3/21/11	21:18	27.60	3/21/11	22:11	27.12	3/21/11	23:04	26.77
3/21/11	19:33	28.83	3/21/11	20:26	28.09	3/21/11	21:19	27.55	3/21/11	22:12	27.12	3/21/11	23:05	26.77
3/21/11	19:34	28.83	3/21/11	20:27	28.09	3/21/11	21:20	27.55	3/21/11	22:13	27.17	3/21/11	23:06	26.77
3/21/11	19:35	28.78	3/21/11	20:28	28.09	3/21/11	21:21	27.55	3/21/11	22:14	27.12	3/21/11	23:07	26.77
3/21/11	19:36	28.78	3/21/11	20:29	28.09	3/21/11	21:22	27.55	3/21/11	22:15	27.12	3/21/11	23:08	26.77
3/21/11	19:37	28.78	3/21/11	20:30	28.09	3/21/11	21:23	27.55	3/21/11	22:16	27.12	3/21/11	23:09	26.77
3/21/11	19:38	28.72	3/21/11	20:31	28.09	3/21/11	21:24	27.55	3/21/11	22:17	27.12	3/21/11	23:10	26.77
3/21/11	19:39	28.72	3/21/11	20:32	28.03	3/21/11	21:25	27.49	3/21/11	22:18	27.12	3/21/11	23:11	26.77
3/21/11	19:40	28.72	3/21/11	20:33	28.03	3/21/11	21:26	27.49	3/21/11	22:19	27.12	3/21/11	23:12	26.77
3/21/11	19:41	28.72	3/21/11	20:34	28.03	3/21/11	21:27	27.49	3/21/11	22:20	27.12	3/21/11	23:13	26.77
3/21/11	19:42	28.66	3/21/11	20:35	28.03	3/21/11	21:28	27.44	3/21/11	22:21	27.12	3/21/11	23:14	26.77

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	23:15	26.77	3/22/11	0:40	26.31	3/22/11	5:05	25.42	3/22/11	9:30	24.89	3/22/11	13:55	24.59
3/21/11	23:16	26.77	3/22/11	0:45	26.25	3/22/11	5:10	25.36	3/22/11	9:35	24.89	3/22/11	14:00	24.55
3/21/11	23:17	26.77	3/22/11	0:50	26.25	3/22/11	5:15	25.36	3/22/11	9:40	24.89	3/22/11	14:05	24.55
3/21/11	23:18	26.71	3/22/11	0:55	26.25	3/22/11	5:20	25.31	3/22/11	9:45	24.89	3/22/11	14:10	24.50
3/21/11	23:19	26.77	3/22/11	1:00	26.20	3/22/11	5:25	25.31	3/22/11	9:50	24.89	3/22/11	14:15	24.50
3/21/11	23:20	26.71	3/22/11	1:05	26.20	3/22/11	5:30	25.31	3/22/11	9:55	24.84	3/22/11	14:20	24.50
3/21/11	23:21	26.71	3/22/11	1:10	26.20	3/22/11	5:35	25.31	3/22/11	10:00	24.82	3/22/11	14:25	24.50
3/21/11	23:22	26.71	3/22/11	1:15	26.20	3/22/11	5:40	25.31	3/22/11	10:05	24.82	3/22/11	14:30	24.50
3/21/11	23:23	26.66	3/22/11	1:20	26.14	3/22/11	5:45	25.31	3/22/11	10:10	24.82	3/22/11	14:35	24.50
3/21/11	23:24	26.66	3/22/11	1:25	26.09	3/22/11	5:50	25.25	3/22/11	10:15	24.82	3/22/11	14:40	24.50
3/21/11	23:25	26.66	3/22/11	1:30	26.14	3/22/11	5:55	25.25	3/22/11	10:20	24.82	3/22/11	14:45	24.50
3/21/11	23:26	26.71	3/22/11	1:35	26.09	3/22/11	6:00	25.27	3/22/11	10:25	24.82	3/22/11	14:50	24.50
3/21/11	23:27	26.66	3/22/11	1:40	26.09	3/22/11	6:05	25.21	3/22/11	10:30	24.82	3/22/11	14:55	24.50
3/21/11	23:28	26.66	3/22/11	1:45	26.03	3/22/11	6:10	25.21	3/22/11	10:35	24.82	3/22/11	15:00	24.48
3/21/11	23:29	26.66	3/22/11	1:50	26.03	3/22/11	6:15	25.21	3/22/11	10:40	24.82	3/22/11	15:05	24.48
3/21/11	23:30	26.66	3/22/11	1:55	26.03	3/22/11	6:20	25.21	3/22/11	10:45	24.82	3/22/11	15:10	24.48
3/21/11	23:31	26.66	3/22/11	2:00	25.96	3/22/11	6:25	25.21	3/22/11	10:50	24.76	3/22/11	15:15	24.48
3/21/11	23:32	26.66	3/22/11	2:05	25.96	3/22/11	6:30	25.21	3/22/11	10:55	24.76	3/22/11	15:20	24.48
3/21/11	23:33	26.66	3/22/11	2:10	25.96	3/22/11	6:35	25.16	3/22/11	11:00	24.75	3/22/11	15:25	24.48
3/21/11	23:34	26.66	3/22/11	2:15	25.90	3/22/11	6:40	25.16	3/22/11	11:05	24.75	3/22/11	15:30	24.48
3/21/11	23:35	26.60	3/22/11	2:20	25.90	3/22/11	6:45	25.10	3/22/11	11:10	24.75	3/22/11	15:35	24.48
3/21/11	23:36	26.60	3/22/11	2:25	25.85	3/22/11	6:50	25.10	3/22/11	11:15	24.75	3/22/11	15:40	24.43
3/21/11	23:37	26.60	3/22/11	2:30	25.85	3/22/11	6:55	25.10	3/22/11	11:20	24.75	3/22/11	15:45	24.48
3/21/11	23:38	26.60	3/22/11	2:35	25.85	3/22/11	7:00	25.14	3/22/11	11:25	24.75	3/22/11	15:50	24.43
3/21/11	23:39	26.60	3/22/11	2:40	25.85	3/22/11	7:05	25.14	3/22/11	11:30	24.75	3/22/11	15:55	24.43
3/21/11	23:40	26.60	3/22/11	2:45	25.85	3/22/11	7:10	25.14	3/22/11	11:35	24.75	3/22/11	16:00	24.39
3/21/11	23:41	26.55	3/22/11	2:50	25.79	3/22/11	7:15	25.14	3/22/11	11:40	24.75	3/22/11	16:05	24.39
3/21/11	23:42	26.60	3/22/11	2:55	25.79	3/22/11	7:20	25.08	3/22/11	11:45	24.75	3/22/11	16:10	24.39
3/21/11	23:43	26.60	3/22/11	3:00	25.79	3/22/11	7:25	25.08	3/22/11	11:50	24.69	3/22/11	16:15	24.39
3/21/11	23:44	26.60	3/22/11	3:05	25.74	3/22/11	7:30	25.08	3/22/11	11:55	24.69	3/22/11	16:20	24.39
3/21/11	23:45	26.55	3/22/11	3:10	25.74	3/22/11	7:35	25.02	3/22/11	12:00	24.73	3/22/11	16:25	24.39
3/21/11	23:46	26.55	3/22/11	3:15	25.74	3/22/11	7:40	25.02	3/22/11	12:05	24.67	3/22/11	16:30	24.39
3/21/11	23:47	26.55	3/22/11	3:20	25.68	3/22/11	7:45	25.02	3/22/11	12:10	24.67	3/22/11	16:35	24.39
3/21/11	23:48	26.55	3/22/11	3:25	25.68	3/22/11	7:50	25.02	3/22/11	12:15	24.67	3/22/11	16:40	24.34
3/21/11	23:49	26.55	3/22/11	3:30	25.62	3/22/11	7:55	25.02	3/22/11	12:20	24.67	3/22/11	16:45	24.34
3/21/11	23:50	26.55	3/22/11	3:35	25.62	3/22/11	8:00	25.04	3/22/11	12:25	24.67	3/22/11	16:50	24.34
3/21/11	23:51	26.55	3/22/11	3:40	25.62	3/22/11	8:05	25.04	3/22/11	12:30	24.67	3/22/11	16:55	24.34
3/21/11	23:52	26.55	3/22/11	3:45	25.62	3/22/11	8:10	24.99	3/22/11	12:35	24.67	3/22/11	17:00	24.34
3/21/11	23:53	26.55	3/22/11	3:50	25.62	3/22/11	8:15	25.04	3/22/11	12:40	24.67	3/22/11	17:05	24.34
3/21/11	23:54	26.55	3/22/11	3:55	25.62	3/22/11	8:20	24.99	3/22/11	12:45	24.67	3/22/11	17:10	24.34
3/21/11	23:55	26.55	3/22/11	4:00	25.57	3/22/11	8:25	24.99	3/22/11	12:50	24.67	3/22/11	17:15	24.34
3/21/11	23:56	26.55	3/22/11	4:05	25.57	3/22/11	8:30	24.93	3/22/11	12:55	24.67	3/22/11	17:20	24.34
3/21/11	23:57	26.55	3/22/11	4:10	25.51	3/22/11	8:35	24.93	3/22/11	13:00	24.64	3/22/11	17:25	24.34
3/21/11	23:58	26.49	3/22/11	4:15	25.51	3/22/11	8:40	24.93	3/22/11	13:05	24.64	3/22/11	17:30	24.34
3/21/11	23:59	26.49	3/22/11	4:20	25.51	3/22/11	8:45	24.93	3/22/11	13:10	24.59	3/22/11	17:35	24.34
3/22/11	0:00	26.48	3/22/11	4:25	25.51	3/22/11	8:50	24.93	3/22/11	13:15	24.64	3/22/11	17:40	24.28
3/22/11	0:05	26.48	3/22/11	4:30	25.46	3/22/11	8:55	24.93	3/22/11	13:20	24.64	3/22/11	17:45	24.28
3/22/11	0:10	26.42	3/22/11	4:35	25.46	3/22/11	9:00	24.95	3/22/11	13:25	24.59	3/22/11	17:50	24.34
3/22/11	0:15	26.42	3/22/11	4:40	25.46	3/22/11	9:05	24.95	3/22/11	13:30	24.64	3/22/11	17:55	24.28
3/22/11	0:20	26.36	3/22/11	4:45	25.46	3/22/11	9:10	24.95	3/22/11	13:35	24.59	3/22/11	18:00	24.28
3/22/11	0:25	26.36	3/22/11	4:50	25.40	3/22/11	9:15	24.95	3/22/11	13:40	24.59	3/22/11	18:05	24.28
3/22/11	0:30	26.31	3/22/11	4:55	25.40	3/22/11	9:20	24.89	3/22/11	13:45	24.59	3/22/11	18:10	24.28
3/22/11	0:35	26.31	3/22/11	5:00	25.42	3/22/11	9:25	24.89	3/22/11	13:50	24.59	3/22/11	18:15	24.28

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/22/11	18:20	24.28	3/22/11	22:45	24.20	3/23/11	3:10	24.10	3/23/11	7:35	23.99	3/23/11	12:00	23.90
3/22/11	18:25	24.28	3/22/11	22:50	24.20	3/23/11	3:15	24.10	3/23/11	7:40	23.99	3/23/11	12:05	23.90
3/22/11	18:30	24.23	3/22/11	22:55	24.20	3/23/11	3:20	24.10	3/23/11	7:45	23.94	3/23/11	12:10	23.90
3/22/11	18:35	24.28	3/22/11	23:00	24.20	3/23/11	3:25	24.10	3/23/11	7:50	23.94	3/23/11	12:15	23.90
3/22/11	18:40	24.23	3/22/11	23:05	24.20	3/23/11	3:30	24.10	3/23/11	7:55	23.99	3/23/11	12:20	23.90
3/22/11	18:45	24.23	3/22/11	23:10	24.20	3/23/11	3:35	24.10	3/23/11	8:00	24.01	3/23/11	12:25	23.90
3/22/11	18:50	24.23	3/22/11	23:15	24.20	3/23/11	3:40	24.10	3/23/11	8:05	24.01	3/23/11	12:30	23.90
3/22/11	18:55	24.23	3/22/11	23:20	24.14	3/23/11	3:45	24.10	3/23/11	8:10	24.01	3/23/11	12:35	23.90
3/22/11	19:00	24.24	3/22/11	23:25	24.14	3/23/11	3:50	24.10	3/23/11	8:15	23.95	3/23/11	12:40	23.95
3/22/11	19:05	24.24	3/22/11	23:30	24.14	3/23/11	3:55	24.10	3/23/11	8:20	24.01	3/23/11	12:45	23.90
3/22/11	19:10	24.24	3/22/11	23:35	24.14	3/23/11	4:00	24.09	3/23/11	8:25	23.95	3/23/11	12:50	23.95
3/22/11	19:15	24.24	3/22/11	23:40	24.14	3/23/11	4:05	24.09	3/23/11	8:30	24.01	3/23/11	12:55	23.90
3/22/11	19:20	24.24	3/22/11	23:45	24.14	3/23/11	4:10	24.09	3/23/11	8:35	24.01	3/23/11	13:00	23.88
3/22/11	19:25	24.19	3/22/11	23:50	24.14	3/23/11	4:15	24.09	3/23/11	8:40	23.95	3/23/11	13:05	23.88
3/22/11	19:30	24.19	3/22/11	23:55	24.20	3/23/11	4:20	24.09	3/23/11	8:45	23.95	3/23/11	13:10	23.88
3/22/11	19:35	24.24	3/23/11	0:00	24.14	3/23/11	4:25	24.09	3/23/11	8:50	23.95	3/23/11	13:15	23.88
3/22/11	19:40	24.24	3/23/11	0:05	24.14	3/23/11	4:30	24.09	3/23/11	8:55	23.95	3/23/11	13:20	23.94
3/22/11	19:45	24.24	3/23/11	0:10	24.14	3/23/11	4:35	24.09	3/23/11	9:00	23.95	3/23/11	13:25	23.94
3/22/11	19:50	24.24	3/23/11	0:15	24.14	3/23/11	4:40	24.09	3/23/11	9:05	23.95	3/23/11	13:30	23.88
3/22/11	19:55	24.19	3/23/11	0:20	24.20	3/23/11	4:45	24.09	3/23/11	9:10	23.95	3/23/11	13:35	23.88
3/22/11	20:00	24.20	3/23/11	0:25	24.20	3/23/11	4:50	24.09	3/23/11	9:15	23.95	3/23/11	13:40	23.88
3/22/11	20:05	24.20	3/23/11	0:30	24.14	3/23/11	4:55	24.09	3/23/11	9:20	23.90	3/23/11	13:45	23.88
3/22/11	20:10	24.20	3/23/11	0:35	24.14	3/23/11	5:00	24.09	3/23/11	9:25	23.95	3/23/11	13:50	23.88
3/22/11	20:15	24.20	3/23/11	0:40	24.14	3/23/11	5:05	24.09	3/23/11	9:30	23.90	3/23/11	13:55	23.88
3/22/11	20:20	24.20	3/23/11	0:45	24.14	3/23/11	5:10	24.09	3/23/11	9:35	23.95	3/23/11	14:00	23.86
3/22/11	20:25	24.20	3/23/11	0:50	24.20	3/23/11	5:15	24.03	3/23/11	9:40	23.90	3/23/11	14:05	23.86
3/22/11	20:30	24.15	3/23/11	0:55	24.14	3/23/11	5:20	24.09	3/23/11	9:45	23.90	3/23/11	14:10	23.86
3/22/11	20:35	24.20	3/23/11	1:00	24.14	3/23/11	5:25	24.09	3/23/11	9:50	23.90	3/23/11	14:15	23.92
3/22/11	20:40	24.20	3/23/11	1:05	24.14	3/23/11	5:30	24.03	3/23/11	9:55	23.95	3/23/11	14:20	23.86
3/22/11	20:45	24.15	3/23/11	1:10	24.14	3/23/11	5:35	24.03	3/23/11	10:00	23.90	3/23/11	14:25	23.86
3/22/11	20:50	24.20	3/23/11	1:15	24.14	3/23/11	5:40	24.03	3/23/11	10:05	23.90	3/23/11	14:30	23.92
3/22/11	20:55	24.15	3/23/11	1:20	24.14	3/23/11	5:45	24.03	3/23/11	10:10	23.90	3/23/11	14:35	23.86
3/22/11	21:00	24.16	3/23/11	1:25	24.14	3/23/11	5:50	24.09	3/23/11	10:15	23.95	3/23/11	14:40	23.86
3/22/11	21:05	24.16	3/23/11	1:30	24.14	3/23/11	5:55	24.03	3/23/11	10:20	23.90	3/23/11	14:45	23.86
3/22/11	21:10	24.16	3/23/11	1:35	24.14	3/23/11	6:00	24.05	3/23/11	10:25	23.95	3/23/11	14:50	23.86
3/22/11	21:15	24.16	3/23/11	1:40	24.09	3/23/11	6:05	24.05	3/23/11	10:30	23.90	3/23/11	14:55	23.86
3/22/11	21:20	24.16	3/23/11	1:45	24.14	3/23/11	6:10	24.05	3/23/11	10:35	23.90	3/23/11	15:00	23.83
3/22/11	21:25	24.16	3/23/11	1:50	24.14	3/23/11	6:15	24.05	3/23/11	10:40	23.90	3/23/11	15:05	23.83
3/22/11	21:30	24.16	3/23/11	1:55	24.14	3/23/11	6:20	24.05	3/23/11	10:45	23.90	3/23/11	15:10	23.83
3/22/11	21:35	24.16	3/23/11	2:00	24.16	3/23/11	6:25	24.05	3/23/11	10:50	23.90	3/23/11	15:15	23.83
3/22/11	21:40	24.16	3/23/11	2:05	24.16	3/23/11	6:30	24.05	3/23/11	10:55	23.90	3/23/11	15:20	23.83
3/22/11	21:45	24.16	3/23/11	2:10	24.16	3/23/11	6:35	23.99	3/23/11	11:00	23.90	3/23/11	15:25	23.83
3/22/11	21:50	24.16	3/23/11	2:15	24.10	3/23/11	6:40	23.99	3/23/11	11:05	23.90	3/23/11	15:30	23.83
3/22/11	21:55	24.16	3/23/11	2:20	24.16	3/23/11	6:45	23.99	3/23/11	11:10	23.90	3/23/11	15:35	23.89
3/22/11	22:00	24.20	3/23/11	2:25	24.16	3/23/11	6:50	23.99	3/23/11	11:15	23.90	3/23/11	15:40	23.83
3/22/11	22:05	24.20	3/23/11	2:30	24.10	3/23/11	6:55	23.99	3/23/11	11:20	23.95	3/23/11	15:45	23.83
3/22/11	22:10	24.20	3/23/11	2:35	24.16	3/23/11	7:00	23.99	3/23/11	11:25	23.90	3/23/11	15:50	23.83
3/22/11	22:15	24.20	3/23/11	2:40	24.10	3/23/11	7:05	23.99	3/23/11	11:30	23.90	3/23/11	15:55	23.83
3/22/11	22:20	24.20	3/23/11	2:45	24.10	3/23/11	7:10	23.99	3/23/11	11:35	23.90	3/23/11	16:00	23.81
3/22/11	22:25	24.20	3/23/11	2:50	24.16	3/23/11	7:15	23.99	3/23/11	11:40	23.90	3/23/11	16:05	23.81
3/22/11	22:30	24.20	3/23/11	2:55	24.10	3/23/11	7:20	23.99	3/23/11	11:45	23.90	3/23/11	16:10	23.81
3/22/11	22:35	24.20	3/23/11	3:00	24.10	3/23/11	7:25	23.99	3/23/11	11:50	23.90	3/23/11	16:15	23.81
3/22/11	22:40	24.20	3/23/11	3:05	24.10	3/23/11	7:30	23.99	3/23/11	11:55	23.90	3/23/11	16:20	23.81

TABLE A.1-1. TRANSDUCER DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/23/11	16:25	23.81	3/23/11	20:50	23.78	3/24/11	1:15	23.79	3/24/11	5:40	23.77	3/24/11	10:05	23.74
3/23/11	16:30	23.81	3/23/11	20:55	23.78	3/24/11	1:20	23.79	3/24/11	5:45	23.77	3/24/11	10:10	23.74
3/23/11	16:35	23.81	3/23/11	21:00	23.74	3/24/11	1:25	23.79	3/24/11	5:50	23.77	3/24/11	10:15	23.74
3/23/11	16:40	23.81	3/23/11	21:05	23.74	3/24/11	1:30	23.79	3/24/11	5:55	23.77	3/24/11	10:20	23.74
3/23/11	16:45	23.81	3/23/11	21:10	23.74	3/24/11	1:35	23.79	3/24/11	6:00	23.77	3/24/11	10:25	23.74
3/23/11	16:50	23.81	3/23/11	21:15	23.74	3/24/11	1:40	23.79	3/24/11	6:05	23.77	3/24/11	10:30	23.74
3/23/11	16:55	23.81	3/23/11	21:20	23.74	3/24/11	1:45	23.79	3/24/11	6:10	23.77	3/24/11	10:35	23.74
3/23/11	17:00	23.81	3/23/11	21:25	23.74	3/24/11	1:50	23.79	3/24/11	6:15	23.77	3/24/11	10:40	23.74
3/23/11	17:05	23.81	3/23/11	21:30	23.74	3/24/11	1:55	23.84	3/24/11	6:20	23.77	3/24/11	10:45	23.74
3/23/11	17:10	23.81	3/23/11	21:35	23.74	3/24/11	2:00	23.77	3/24/11	6:25	23.77	3/24/11	10:50	23.74
3/23/11	17:15	23.81	3/23/11	21:40	23.74	3/24/11	2:05	23.77	3/24/11	6:30	23.77	3/24/11	10:55	23.74
3/23/11	17:20	23.81	3/23/11	21:45	23.74	3/24/11	2:10	23.82	3/24/11	6:35	23.77	3/24/11	11:00	23.74
3/23/11	17:25	23.81	3/23/11	21:50	23.74	3/24/11	2:15	23.82	3/24/11	6:40	23.77	3/24/11	11:05	23.74
3/23/11	17:30	23.81	3/23/11	21:55	23.74	3/24/11	2:20	23.82	3/24/11	6:45	23.71	3/24/11	11:10	23.74
3/23/11	17:35	23.81	3/23/11	22:00	23.77	3/24/11	2:25	23.77	3/24/11	6:50	23.77	3/24/11	11:15	23.74
3/23/11	17:40	23.81	3/23/11	22:05	23.77	3/24/11	2:30	23.82	3/24/11	6:55	23.77			
3/23/11	17:45	23.81	3/23/11	22:10	23.77	3/24/11	2:35	23.77	3/24/11	7:00	23.79			
3/23/11	17:50	23.81	3/23/11	22:15	23.77	3/24/11	2:40	23.82	3/24/11	7:05	23.79			
3/23/11	17:55	23.81	3/23/11	22:20	23.77	3/24/11	2:45	23.82	3/24/11	7:10	23.73			
3/23/11	18:00	23.81	3/23/11	22:25	23.77	3/24/11	2:50	23.82	3/24/11	7:15	23.73			
3/23/11	18:05	23.81	3/23/11	22:30	23.77	3/24/11	2:55	23.77	3/24/11	7:20	23.73			
3/23/11	18:10	23.81	3/23/11	22:35	23.77	3/24/11	3:00	23.82	3/24/11	7:25	23.73			
3/23/11	18:15	23.81	3/23/11	22:40	23.77	3/24/11	3:05	23.77	3/24/11	7:30	23.73			
3/23/11	18:20	23.76	3/23/11	22:45	23.77	3/24/11	3:10	23.77	3/24/11	7:35	23.73			
3/23/11	18:25	23.81	3/23/11	22:50	23.77	3/24/11	3:15	23.77	3/24/11	7:40	23.73			
3/23/11	18:30	23.81	3/23/11	22:55	23.77	3/24/11	3:20	23.82	3/24/11	7:45	23.73			
3/23/11	18:35	23.76	3/23/11	23:00	23.79	3/24/11	3:25	23.82	3/24/11	7:50	23.73			
3/23/11	18:40	23.81	3/23/11	23:05	23.79	3/24/11	3:30	23.77	3/24/11	7:55	23.73			
3/23/11	18:45	23.81	3/23/11	23:10	23.79	3/24/11	3:35	23.77	3/24/11	8:00	23.76			
3/23/11	18:50	23.76	3/23/11	23:15	23.79	3/24/11	3:40	23.77	3/24/11	8:05	23.76			
3/23/11	18:55	23.76	3/23/11	23:20	23.79	3/24/11	3:45	23.77	3/24/11	8:10	23.76			
3/23/11	19:00	23.76	3/23/11	23:25	23.79	3/24/11	3:50	23.77	3/24/11	8:15	23.71			
3/23/11	19:05	23.76	3/23/11	23:30	23.79	3/24/11	3:55	23.82	3/24/11	8:20	23.71			
3/23/11	19:10	23.76	3/23/11	23:35	23.79	3/24/11	4:00	23.82	3/24/11	8:25	23.71			
3/23/11	19:15	23.76	3/23/11	23:40	23.84	3/24/11	4:05	23.82	3/24/11	8:30	23.71			
3/23/11	19:20	23.76	3/23/11	23:45	23.79	3/24/11	4:10	23.82	3/24/11	8:35	23.71			
3/23/11	19:25	23.76	3/23/11	23:50	23.79	3/24/11	4:15	23.77	3/24/11	8:40	23.71			
3/23/11	19:30	23.76	3/23/11	23:55	23.79	3/24/11	4:20	23.77	3/24/11	8:45	23.71			
3/23/11	19:35	23.76	3/24/11	0:00	23.79	3/24/11	4:25	23.77	3/24/11	8:50	23.71			
3/23/11	19:40	23.76	3/24/11	0:05	23.79	3/24/11	4:30	23.77	3/24/11	8:55	23.71			
3/23/11	19:45	23.76	3/24/11	0:10	23.79	3/24/11	4:35	23.82	3/24/11	9:00	23.72			
3/23/11	19:50	23.76	3/24/11	0:15	23.79	3/24/11	4:40	23.77	3/24/11	9:05	23.72			
3/23/11	19:55	23.76	3/24/11	0:20	23.79	3/24/11	4:45	23.77	3/24/11	9:10	23.72			
3/23/11	20:00	23.78	3/24/11	0:25	23.79	3/24/11	4:50	23.77	3/24/11	9:15	23.72			
3/23/11	20:05	23.78	3/24/11	0:30	23.79	3/24/11	4:55	23.82	3/24/11	9:20	23.72			
3/23/11	20:10	23.72	3/24/11	0:35	23.79	3/24/11	5:00	23.77	3/24/11	9:25	23.72			
3/23/11	20:15	23.78	3/24/11	0:40	23.79	3/24/11	5:05	23.82	3/24/11	9:30	23.72			
3/23/11	20:20	23.72	3/24/11	0:45	23.79	3/24/11	5:10	23.77	3/24/11	9:35	23.72			
3/23/11	20:25	23.72	3/24/11	0:50	23.79	3/24/11	5:15	23.77	3/24/11	9:40	23.72			
3/23/11	20:30	23.72	3/24/11	0:55	23.79	3/24/11	5:20	23.77	3/24/11	9:45	23.72			
3/23/11	20:35	23.72	3/24/11	1:00	23.79	3/24/11	5:25	23.77	3/24/11	9:50	23.72			
3/23/11	20:40	23.72	3/24/11	1:05	23.79	3/24/11	5:30	23.77	3/24/11	9:55	23.72			
3/23/11	20:45	23.78	3/24/11	1:10	23.79	3/24/11	5:35	23.77	3/24/11	10:00	23.74			

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/18/11	13:49	21.65	3/18/11	18:14	21.24	3/18/11	22:39	21.44	3/19/11	3:04	21.42	3/19/11	7:29	21.36
3/18/11	13:54	21.69	3/18/11	18:19	21.27	3/18/11	22:44	21.44	3/19/11	3:09	21.42	3/19/11	7:34	21.36
3/18/11	13:59	21.72	3/18/11	18:24	21.27	3/18/11	22:49	21.44	3/19/11	3:14	21.42	3/19/11	7:39	21.36
3/18/11	14:04	21.75	3/18/11	18:29	21.27	3/18/11	22:54	21.44	3/19/11	3:19	21.42	3/19/11	7:44	21.36
3/18/11	14:09	21.75	3/18/11	18:34	21.27	3/18/11	22:59	21.44	3/19/11	3:24	21.42	3/19/11	7:49	21.36
3/18/11	14:14	21.75	3/18/11	18:39	21.27	3/18/11	23:04	21.46	3/19/11	3:29	21.42	3/19/11	7:54	21.36
3/18/11	14:19	21.75	3/18/11	18:44	21.24	3/18/11	23:09	21.46	3/19/11	3:34	21.42	3/19/11	7:59	21.36
3/18/11	14:24	21.72	3/18/11	18:49	21.27	3/18/11	23:14	21.46	3/19/11	3:39	21.42	3/19/11	8:04	21.39
3/18/11	14:29	21.69	3/18/11	18:54	21.27	3/18/11	23:19	21.46	3/19/11	3:44	21.42	3/19/11	8:09	21.39
3/18/11	14:34	21.69	3/18/11	18:59	21.27	3/18/11	23:24	21.46	3/19/11	3:49	21.42	3/19/11	8:14	21.39
3/18/11	14:39	21.65	3/18/11	19:04	21.32	3/18/11	23:29	21.46	3/19/11	3:54	21.42	3/19/11	8:19	21.39
3/18/11	14:44	21.65	3/18/11	19:09	21.32	3/18/11	23:34	21.46	3/19/11	3:59	21.42	3/19/11	8:24	21.39
3/18/11	14:49	21.65	3/18/11	19:14	21.32	3/18/11	23:39	21.46	3/19/11	4:04	21.41	3/19/11	8:29	21.39
3/18/11	14:54	21.62	3/18/11	19:19	21.32	3/18/11	23:44	21.46	3/19/11	4:09	21.41	3/19/11	8:34	21.39
3/18/11	14:59	21.62	3/18/11	19:24	21.32	3/18/11	23:49	21.46	3/19/11	4:14	21.41	3/19/11	8:39	21.39
3/18/11	15:04	21.60	3/18/11	19:29	21.32	3/18/11	23:54	21.46	3/19/11	4:19	21.37	3/19/11	8:44	21.39
3/18/11	15:09	21.54	3/18/11	19:34	21.32	3/18/11	23:59	21.46	3/19/11	4:24	21.41	3/19/11	8:49	21.39
3/18/11	15:14	21.47	3/18/11	19:39	21.32	3/19/11	0:04	21.47	3/19/11	4:29	21.41	3/19/11	8:54	21.39
3/18/11	15:19	21.44	3/18/11	19:44	21.32	3/19/11	0:09	21.47	3/19/11	4:34	21.37	3/19/11	8:59	21.39
3/18/11	15:24	21.37	3/18/11	19:49	21.32	3/19/11	0:14	21.47	3/19/11	4:39	21.37	3/19/11	9:04	21.41
3/18/11	15:29	21.37	3/18/11	19:54	21.32	3/19/11	0:19	21.47	3/19/11	4:44	21.37	3/19/11	9:09	21.41
3/18/11	15:34	21.34	3/18/11	19:59	21.32	3/19/11	0:24	21.47	3/19/11	4:49	21.37	3/19/11	9:14	21.41
3/18/11	15:39	21.34	3/18/11	20:04	21.34	3/19/11	0:29	21.47	3/19/11	4:54	21.37	3/19/11	9:19	21.44
3/18/11	15:44	21.34	3/18/11	20:09	21.34	3/19/11	0:34	21.47	3/19/11	4:59	21.37	3/19/11	9:24	21.41
3/18/11	15:49	21.34	3/18/11	20:14	21.34	3/19/11	0:39	21.47	3/19/11	5:04	21.39	3/19/11	9:29	21.41
3/18/11	15:54	21.34	3/18/11	20:19	21.34	3/19/11	0:44	21.47	3/19/11	5:09	21.39	3/19/11	9:34	21.44
3/18/11	15:59	21.34	3/18/11	20:24	21.34	3/19/11	0:49	21.47	3/19/11	5:14	21.39	3/19/11	9:39	21.41
3/18/11	16:04	21.29	3/18/11	20:29	21.34	3/19/11	0:54	21.47	3/19/11	5:19	21.36	3/19/11	9:44	21.44
3/18/11	16:09	21.29	3/18/11	20:34	21.34	3/19/11	0:59	21.47	3/19/11	5:24	21.39	3/19/11	9:49	21.41
3/18/11	16:14	21.26	3/18/11	20:39	21.34	3/19/11	1:04	21.47	3/19/11	5:29	21.39	3/19/11	9:54	21.44
3/18/11	16:19	21.22	3/18/11	20:44	21.34	3/19/11	1:09	21.47	3/19/11	5:34	21.39	3/19/11	9:59	21.44
3/18/11	16:24	21.19	3/18/11	20:49	21.34	3/19/11	1:14	21.47	3/19/11	5:39	21.36	3/19/11	10:04	21.44
3/18/11	16:29	21.19	3/18/11	20:54	21.34	3/19/11	1:19	21.47	3/19/11	5:44	21.36	3/19/11	10:09	21.44
3/18/11	16:34	21.22	3/18/11	20:59	21.34	3/19/11	1:24	21.47	3/19/11	5:49	21.36	3/19/11	10:14	21.44
3/18/11	16:39	21.22	3/18/11	21:04	21.37	3/19/11	1:29	21.47	3/19/11	5:54	21.36	3/19/11	10:19	21.44
3/18/11	16:44	21.26	3/18/11	21:09	21.37	3/19/11	1:34	21.47	3/19/11	5:59	21.36	3/19/11	10:24	21.44
3/18/11	16:49	21.26	3/18/11	21:14	21.37	3/19/11	1:39	21.47	3/19/11	6:04	21.36	3/19/11	10:29	21.44
3/18/11	16:54	21.22	3/18/11	21:19	21.37	3/19/11	1:44	21.44	3/19/11	6:09	21.36	3/19/11	10:34	21.44
3/18/11	16:59	21.26	3/18/11	21:24	21.37	3/19/11	1:49	21.47	3/19/11	6:14	21.36	3/19/11	10:39	21.44
3/18/11	17:04	21.26	3/18/11	21:29	21.37	3/19/11	1:54	21.47	3/19/11	6:19	21.36	3/19/11	10:44	21.44
3/18/11	17:09	21.26	3/18/11	21:34	21.37	3/19/11	1:59	21.47	3/19/11	6:24	21.36	3/19/11	10:49	21.44
3/18/11	17:14	21.26	3/18/11	21:39	21.37	3/19/11	2:04	21.46	3/19/11	6:29	21.36	3/19/11	10:54	21.44
3/18/11	17:19	21.26	3/18/11	21:44	21.41	3/19/11	2:09	21.46	3/19/11	6:34	21.36	3/19/11	10:59	21.47
3/18/11	17:24	21.26	3/18/11	21:49	21.37	3/19/11	2:14	21.46	3/19/11	6:39	21.36	3/19/11	11:04	21.46
3/18/11	17:29	21.26	3/18/11	21:54	21.37	3/19/11	2:19	21.46	3/19/11	6:44	21.36	3/19/11	11:09	21.46
3/18/11	17:34	21.26	3/18/11	21:59	21.37	3/19/11	2:24	21.46	3/19/11	6:49	21.36	3/19/11	11:14	21.46
3/18/11	17:39	21.26	3/18/11	22:04	21.41	3/19/11	2:29	21.42	3/19/11	6:54	21.36	3/19/11	11:19	21.46
3/18/11	17:44	21.29	3/18/11	22:09	21.44	3/19/11	2:34	21.42	3/19/11	6:59	21.36	3/19/11	11:24	21.46
3/18/11	17:49	21.29	3/18/11	22:14	21.41	3/19/11	2:39	21.42	3/19/11	7:04	21.36	3/19/11	11:29	21.46
3/18/11	17:54	21.29	3/18/11	22:19	21.44	3/19/11	2:44	21.42	3/19/11	7:09	21.36	3/19/11	11:34	21.46
3/18/11	17:59	21.29	3/18/11	22:24	21.44	3/19/11	2:49	21.42	3/19/11	7:14	21.36	3/19/11	11:39	21.46
3/18/11	18:04	21.24	3/18/11	22:29	21.44	3/19/11	2:54	21.42	3/19/11	7:19	21.36	3/19/11	11:44	21.46
3/18/11	18:09	21.24	3/18/11	22:34	21.41	3/19/11	2:59	21.42	3/19/11	7:24	21.36	3/19/11	11:49	21.46

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/19/11	11:54	21.49	3/19/11	12:47	21.67	3/19/11	13:40	21.64	3/19/11	14:33	23.32	3/19/11	15:26	25.31
3/19/11	11:55	21.49	3/19/11	12:48	21.67	3/19/11	13:41	21.64	3/19/11	14:34	23.38	3/19/11	15:27	25.25
3/19/11	11:56	21.49	3/19/11	12:49	21.67	3/19/11	13:42	21.60	3/19/11	14:35	23.52	3/19/11	15:28	25.21
3/19/11	11:57	21.49	3/19/11	12:50	21.67	3/19/11	13:43	21.64	3/19/11	14:36	23.62	3/19/11	15:29	25.15
3/19/11	11:58	21.49	3/19/11	12:51	21.67	3/19/11	13:44	21.64	3/19/11	14:37	23.71	3/19/11	15:30	25.12
3/19/11	11:59	21.49	3/19/11	12:52	21.67	3/19/11	13:45	21.64	3/19/11	14:38	23.81	3/19/11	15:31	25.08
3/19/11	12:00	21.60	3/19/11	12:53	21.67	3/19/11	13:46	21.60	3/19/11	14:39	23.91	3/19/11	15:32	25.02
3/19/11	12:01	21.60	3/19/11	12:54	21.67	3/19/11	13:47	21.64	3/19/11	14:40	23.98	3/19/11	15:33	25.02
3/19/11	12:02	21.60	3/19/11	12:55	21.67	3/19/11	13:48	21.60	3/19/11	14:41	24.11	3/19/11	15:34	24.95
3/19/11	12:03	21.60	3/19/11	12:56	21.67	3/19/11	13:49	21.64	3/19/11	14:42	24.18	3/19/11	15:35	24.95
3/19/11	12:04	21.60	3/19/11	12:57	21.67	3/19/11	13:50	21.60	3/19/11	14:43	24.31	3/19/11	15:36	24.92
3/19/11	12:05	21.60	3/19/11	12:58	21.67	3/19/11	13:51	21.60	3/19/11	14:44	24.37	3/19/11	15:37	24.92
3/19/11	12:06	21.60	3/19/11	12:59	21.67	3/19/11	13:52	21.60	3/19/11	14:45	24.47	3/19/11	15:38	24.88
3/19/11	12:07	21.60	3/19/11	13:00	21.64	3/19/11	13:53	21.64	3/19/11	14:46	24.57	3/19/11	15:39	24.88
3/19/11	12:08	21.60	3/19/11	13:01	21.64	3/19/11	13:54	21.64	3/19/11	14:47	24.70	3/19/11	15:40	24.85
3/19/11	12:09	21.60	3/19/11	13:02	21.64	3/19/11	13:55	21.60	3/19/11	14:48	24.77	3/19/11	15:41	24.82
3/19/11	12:10	21.60	3/19/11	13:03	21.64	3/19/11	13:56	21.60	3/19/11	14:49	24.90	3/19/11	15:42	24.79
3/19/11	12:11	21.60	3/19/11	13:04	21.64	3/19/11	13:57	21.60	3/19/11	14:50	24.97	3/19/11	15:43	24.75
3/19/11	12:12	21.60	3/19/11	13:05	21.64	3/19/11	13:58	21.64	3/19/11	14:51	25.07	3/19/11	15:44	24.75
3/19/11	12:13	21.60	3/19/11	13:06	21.64	3/19/11	13:59	21.64	3/19/11	14:52	25.16	3/19/11	15:45	24.72
3/19/11	12:14	21.60	3/19/11	13:07	21.64	3/19/11	14:00	21.57	3/19/11	14:53	25.26	3/19/11	15:46	24.69
3/19/11	12:15	21.60	3/19/11	13:08	21.64	3/19/11	14:01	21.60	3/19/11	14:54	25.36	3/19/11	15:47	24.65
3/19/11	12:16	21.60	3/19/11	13:09	21.64	3/19/11	14:02	21.57	3/19/11	14:55	25.43	3/19/11	15:48	24.62
3/19/11	12:17	21.60	3/19/11	13:10	21.64	3/19/11	14:03	21.57	3/19/11	14:56	25.49	3/19/11	15:49	24.59
3/19/11	12:18	21.60	3/19/11	13:11	21.64	3/19/11	14:04	21.57	3/19/11	14:57	25.56	3/19/11	15:50	24.55
3/19/11	12:19	21.60	3/19/11	13:12	21.64	3/19/11	14:05	21.57	3/19/11	14:58	25.63	3/19/11	15:51	24.55
3/19/11	12:20	21.60	3/19/11	13:13	21.64	3/19/11	14:06	21.57	3/19/11	14:59	25.69	3/19/11	15:52	24.49
3/19/11	12:21	21.60	3/19/11	13:14	21.64	3/19/11	14:07	21.60	3/19/11	15:00	25.71	3/19/11	15:53	24.49
3/19/11	12:22	21.60	3/19/11	13:15	21.64	3/19/11	14:08	21.57	3/19/11	15:01	25.74	3/19/11	15:54	24.46
3/19/11	12:23	21.60	3/19/11	13:16	21.64	3/19/11	14:09	21.57	3/19/11	15:02	25.81	3/19/11	15:55	24.42
3/19/11	12:24	21.60	3/19/11	13:17	21.64	3/19/11	14:10	21.60	3/19/11	15:03	25.84	3/19/11	15:56	24.39
3/19/11	12:25	21.60	3/19/11	13:18	21.64	3/19/11	14:11	21.60	3/19/11	15:04	25.84	3/19/11	15:57	24.36
3/19/11	12:26	21.60	3/19/11	13:19	21.60	3/19/11	14:12	21.64	3/19/11	15:05	25.84	3/19/11	15:58	24.32
3/19/11	12:27	21.60	3/19/11	13:20	21.64	3/19/11	14:13	21.67	3/19/11	15:06	25.87	3/19/11	15:59	24.29
3/19/11	12:28	21.60	3/19/11	13:21	21.64	3/19/11	14:14	21.70	3/19/11	15:07	25.87	3/19/11	16:00	24.22
3/19/11	12:29	21.60	3/19/11	13:22	21.64	3/19/11	14:15	21.74	3/19/11	15:08	25.87	3/19/11	16:01	24.19
3/19/11	12:30	21.60	3/19/11	13:23	21.64	3/19/11	14:16	21.84	3/19/11	15:09	25.87	3/19/11	16:02	24.16
3/19/11	12:31	21.60	3/19/11	13:24	21.64	3/19/11	14:17	21.87	3/19/11	15:10	25.87	3/19/11	16:03	24.13
3/19/11	12:32	21.64	3/19/11	13:25	21.64	3/19/11	14:18	21.93	3/19/11	15:11	25.84	3/19/11	16:04	24.09
3/19/11	12:33	21.64	3/19/11	13:26	21.64	3/19/11	14:19	22.03	3/19/11	15:12	25.84	3/19/11	16:05	24.06
3/19/11	12:34	21.64	3/19/11	13:27	21.64	3/19/11	14:20	22.10	3/19/11	15:13	25.84	3/19/11	16:06	24.03
3/19/11	12:35	21.64	3/19/11	13:28	21.60	3/19/11	14:21	22.20	3/19/11	15:14	25.81	3/19/11	16:07	23.99
3/19/11	12:36	21.64	3/19/11	13:29	21.64	3/19/11	14:22	22.26	3/19/11	15:15	25.77	3/19/11	16:08	23.96
3/19/11	12:37	21.64	3/19/11	13:30	21.64	3/19/11	14:23	22.36	3/19/11	15:16	25.74	3/19/11	16:09	23.93
3/19/11	12:38	21.67	3/19/11	13:31	21.64	3/19/11	14:24	22.46	3/19/11	15:17	25.71	3/19/11	16:10	23.90
3/19/11	12:39	21.67	3/19/11	13:32	21.64	3/19/11	14:25	22.53	3/19/11	15:18	25.68	3/19/11	16:11	23.86
3/19/11	12:40	21.67	3/19/11	13:33	21.64	3/19/11	14:26	22.63	3/19/11	15:19	25.64	3/19/11	16:12	23.86
3/19/11	12:41	21.67	3/19/11	13:34	21.64	3/19/11	14:27	22.73	3/19/11	15:20	25.61	3/19/11	16:13	23.80
3/19/11	12:42	21.67	3/19/11	13:35	21.64	3/19/11	14:28	22.79	3/19/11	15:21	25.54	3/19/11	16:14	23.80
3/19/11	12:43	21.67	3/19/11	13:36	21.64	3/19/11	14:29	22.92	3/19/11	15:22	25.51	3/19/11	16:15	23.73
3/19/11	12:44	21.67	3/19/11	13:37	21.64	3/19/11	14:30	22.99	3/19/11	15:23	25.48	3/19/11	16:16	23.73
3/19/11	12:45	21.67	3/19/11	13:38	21.64	3/19/11	14:31	23.09	3/19/11	15:24	25.41	3/19/11	16:17	23.70
3/19/11	12:46	21.67	3/19/11	13:39	21.60	3/19/11	14:32	23.19	3/19/11	15:25	25.35	3/19/11	16:18	23.66

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/19/11	16:19	23.63	3/19/11	17:12	22.79	3/19/11	18:05	28.58	3/19/11	18:58	32.04	3/19/11	19:51	33.92
3/19/11	16:20	23.60	3/19/11	17:13	22.89	3/19/11	18:06	28.68	3/19/11	18:59	32.07	3/19/11	19:52	33.95
3/19/11	16:21	23.60	3/19/11	17:14	22.96	3/19/11	18:07	28.77	3/19/11	19:00	32.14	3/19/11	19:53	33.98
3/19/11	16:22	23.57	3/19/11	17:15	23.06	3/19/11	18:08	28.84	3/19/11	19:01	32.17	3/19/11	19:54	34.02
3/19/11	16:23	23.53	3/19/11	17:16	23.12	3/19/11	18:09	28.94	3/19/11	19:02	32.20	3/19/11	19:55	34.05
3/19/11	16:24	23.53	3/19/11	17:17	23.25	3/19/11	18:10	29.04	3/19/11	19:03	32.27	3/19/11	19:56	34.08
3/19/11	16:25	23.47	3/19/11	17:18	23.32	3/19/11	18:11	29.14	3/19/11	19:04	32.30	3/19/11	19:57	34.11
3/19/11	16:26	23.47	3/19/11	17:19	23.45	3/19/11	18:12	29.20	3/19/11	19:05	32.33	3/19/11	19:58	34.11
3/19/11	16:27	23.47	3/19/11	17:20	23.55	3/19/11	18:13	29.30	3/19/11	19:06	32.40	3/19/11	19:59	34.18
3/19/11	16:28	23.40	3/19/11	17:21	23.65	3/19/11	18:14	29.37	3/19/11	19:07	32.43	3/19/11	20:00	34.18
3/19/11	16:29	23.40	3/19/11	17:22	23.75	3/19/11	18:15	29.47	3/19/11	19:08	32.47	3/19/11	20:01	34.21
3/19/11	16:30	23.37	3/19/11	17:23	23.88	3/19/11	18:16	29.53	3/19/11	19:09	32.53	3/19/11	20:02	34.25
3/19/11	16:31	23.33	3/19/11	17:24	24.01	3/19/11	18:17	29.63	3/19/11	19:10	32.57	3/19/11	20:03	34.25
3/19/11	16:32	23.33	3/19/11	17:25	24.11	3/19/11	18:18	29.70	3/19/11	19:11	32.60	3/19/11	20:04	34.28
3/19/11	16:33	23.33	3/19/11	17:26	24.24	3/19/11	18:19	29.76	3/19/11	19:12	32.63	3/19/11	20:05	34.31
3/19/11	16:34	23.30	3/19/11	17:27	24.34	3/19/11	18:20	29.83	3/19/11	19:13	32.66	3/19/11	20:06	34.35
3/19/11	16:35	23.27	3/19/11	17:28	24.47	3/19/11	18:21	29.90	3/19/11	19:14	32.73	3/19/11	20:07	34.38
3/19/11	16:36	23.27	3/19/11	17:29	24.60	3/19/11	18:22	29.99	3/19/11	19:15	32.76	3/19/11	20:08	34.38
3/19/11	16:37	23.24	3/19/11	17:30	24.74	3/19/11	18:23	30.06	3/19/11	19:16	32.80	3/19/11	20:09	34.41
3/19/11	16:38	23.24	3/19/11	17:31	24.84	3/19/11	18:24	30.13	3/19/11	19:17	32.83	3/19/11	20:10	34.44
3/19/11	16:39	23.20	3/19/11	17:32	24.97	3/19/11	18:25	30.19	3/19/11	19:18	32.86	3/19/11	20:11	34.48
3/19/11	16:40	23.17	3/19/11	17:33	25.10	3/19/11	18:26	30.29	3/19/11	19:19	32.90	3/19/11	20:12	34.51
3/19/11	16:41	23.17	3/19/11	17:34	25.20	3/19/11	18:27	30.32	3/19/11	19:20	32.93	3/19/11	20:13	34.54
3/19/11	16:42	23.14	3/19/11	17:35	25.33	3/19/11	18:28	30.42	3/19/11	19:21	32.96	3/19/11	20:14	34.54
3/19/11	16:43	23.14	3/19/11	17:36	25.46	3/19/11	18:29	30.49	3/19/11	19:22	33.03	3/19/11	20:15	34.58
3/19/11	16:44	23.10	3/19/11	17:37	25.56	3/19/11	18:30	30.55	3/19/11	19:23	33.06	3/19/11	20:16	34.61
3/19/11	16:45	23.07	3/19/11	17:38	25.69	3/19/11	18:31	30.62	3/19/11	19:24	33.06	3/19/11	20:17	34.64
3/19/11	16:46	23.07	3/19/11	17:39	25.82	3/19/11	18:32	30.65	3/19/11	19:25	33.13	3/19/11	20:18	34.64
3/19/11	16:47	23.04	3/19/11	17:40	25.96	3/19/11	18:33	30.72	3/19/11	19:26	33.13	3/19/11	20:19	34.71
3/19/11	16:48	23.01	3/19/11	17:41	26.06	3/19/11	18:34	30.79	3/19/11	19:27	33.19	3/19/11	20:20	34.74
3/19/11	16:49	22.94	3/19/11	17:42	26.15	3/19/11	18:35	30.85	3/19/11	19:28	33.22	3/19/11	20:21	34.74
3/19/11	16:50	22.91	3/19/11	17:43	26.29	3/19/11	18:36	30.88	3/19/11	19:29	33.26	3/19/11	20:22	34.77
3/19/11	16:51	22.84	3/19/11	17:44	26.42	3/19/11	18:37	30.95	3/19/11	19:30	33.26	3/19/11	20:23	34.77
3/19/11	16:52	22.81	3/19/11	17:45	26.52	3/19/11	18:38	31.02	3/19/11	19:31	33.32	3/19/11	20:24	34.84
3/19/11	16:53	22.77	3/19/11	17:46	26.62	3/19/11	18:39	31.08	3/19/11	19:32	33.32	3/19/11	20:25	34.84
3/19/11	16:54	22.71	3/19/11	17:47	26.75	3/19/11	18:40	31.15	3/19/11	19:33	33.36	3/19/11	20:26	34.87
3/19/11	16:55	22.68	3/19/11	17:48	26.88	3/19/11	18:41	31.21	3/19/11	19:34	33.39	3/19/11	20:27	34.91
3/19/11	16:56	22.64	3/19/11	17:49	26.98	3/19/11	18:42	31.25	3/19/11	19:35	33.42	3/19/11	20:28	34.91
3/19/11	16:57	22.61	3/19/11	17:50	27.08	3/19/11	18:43	31.31	3/19/11	19:36	33.46	3/19/11	20:29	34.94
3/19/11	16:58	22.58	3/19/11	17:51	27.21	3/19/11	18:44	31.35	3/19/11	19:37	33.49	3/19/11	20:30	34.97
3/19/11	16:59	22.54	3/19/11	17:52	27.31	3/19/11	18:45	31.41	3/19/11	19:38	33.52	3/19/11	20:31	35.01
3/19/11	17:00	22.53	3/19/11	17:53	27.41	3/19/11	18:46	31.48	3/19/11	19:39	33.55	3/19/11	20:32	35.01
3/19/11	17:01	22.49	3/19/11	17:54	27.54	3/19/11	18:47	31.51	3/19/11	19:40	33.59	3/19/11	20:33	35.04
3/19/11	17:02	22.46	3/19/11	17:55	27.64	3/19/11	18:48	31.58	3/19/11	19:41	33.62	3/19/11	20:34	35.04
3/19/11	17:03	22.46	3/19/11	17:56	27.74	3/19/11	18:49	31.61	3/19/11	19:42	33.65	3/19/11	20:35	35.07
3/19/11	17:04	22.46	3/19/11	17:57	27.84	3/19/11	18:50	31.68	3/19/11	19:43	33.69	3/19/11	20:36	35.10
3/19/11	17:05	22.49	3/19/11	17:58	27.93	3/19/11	18:51	31.71	3/19/11	19:44	33.69	3/19/11	20:37	35.10
3/19/11	17:06	22.49	3/19/11	17:59	28.03	3/19/11	18:52	31.77	3/19/11	19:45	33.72	3/19/11	20:38	35.14
3/19/11	17:07	22.53	3/19/11	18:00	28.11	3/19/11	18:53	31.81	3/19/11	19:46	33.75	3/19/11	20:39	35.17
3/19/11	17:08	22.56	3/19/11	18:01	28.21	3/19/11	18:54	31.87	3/19/11	19:47	33.79	3/19/11	20:40	35.20
3/19/11	17:09	22.63	3/19/11	18:02	28.31	3/19/11	18:55	31.91	3/19/11	19:48	33.82	3/19/11	20:41	35.24
3/19/11	17:10	22.66	3/19/11	18:03	28.41	3/19/11	18:56	31.94	3/19/11	19:49	33.85	3/19/11	20:42	35.24
3/19/11	17:11	22.73	3/19/11	18:04	28.51	3/19/11	18:57	32.01	3/19/11	19:50	33.88	3/19/11	20:43	35.27

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/19/11	20:44	35.30	3/19/11	21:37	36.31	3/19/11	22:30	36.95	3/19/11	23:23	37.46	3/20/11	0:16	37.89
3/19/11	20:45	35.30	3/19/11	21:38	36.31	3/19/11	22:31	36.98	3/19/11	23:24	37.49	3/20/11	0:17	37.89
3/19/11	20:46	35.33	3/19/11	21:39	36.31	3/19/11	22:32	36.98	3/19/11	23:25	37.49	3/20/11	0:18	37.92
3/19/11	20:47	35.37	3/19/11	21:40	36.34	3/19/11	22:33	36.98	3/19/11	23:26	37.49	3/20/11	0:19	37.92
3/19/11	20:48	35.37	3/19/11	21:41	36.37	3/19/11	22:34	36.98	3/19/11	23:27	37.49	3/20/11	0:20	37.92
3/19/11	20:49	35.40	3/19/11	21:42	36.37	3/19/11	22:35	36.98	3/19/11	23:28	37.49	3/20/11	0:21	37.92
3/19/11	20:50	35.43	3/19/11	21:43	36.37	3/19/11	22:36	37.02	3/19/11	23:29	37.53	3/20/11	0:22	37.96
3/19/11	20:51	35.43	3/19/11	21:44	36.41	3/19/11	22:37	37.02	3/19/11	23:30	37.53	3/20/11	0:23	37.96
3/19/11	20:52	35.47	3/19/11	21:45	36.41	3/19/11	22:38	37.05	3/19/11	23:31	37.53	3/20/11	0:24	37.96
3/19/11	20:53	35.50	3/19/11	21:46	36.44	3/19/11	22:39	37.05	3/19/11	23:32	37.53	3/20/11	0:25	37.96
3/19/11	20:54	35.53	3/19/11	21:47	36.44	3/19/11	22:40	37.05	3/19/11	23:33	37.56	3/20/11	0:26	37.96
3/19/11	20:55	35.57	3/19/11	21:48	36.44	3/19/11	22:41	37.08	3/19/11	23:34	37.56	3/20/11	0:27	37.99
3/19/11	20:56	35.57	3/19/11	21:49	36.47	3/19/11	22:42	37.08	3/19/11	23:35	37.59	3/20/11	0:28	37.99
3/19/11	20:57	35.57	3/19/11	21:50	36.51	3/19/11	22:43	37.08	3/19/11	23:36	37.59	3/20/11	0:29	37.99
3/19/11	20:58	35.60	3/19/11	21:51	36.51	3/19/11	22:44	37.08	3/19/11	23:37	37.59	3/20/11	0:30	37.99
3/19/11	20:59	35.63	3/19/11	21:52	36.51	3/19/11	22:45	37.11	3/19/11	23:38	37.59	3/20/11	0:31	37.99
3/19/11	21:00	35.68	3/19/11	21:53	36.54	3/19/11	22:46	37.11	3/19/11	23:39	37.59	3/20/11	0:32	38.02
3/19/11	21:01	35.68	3/19/11	21:54	36.54	3/19/11	22:47	37.11	3/19/11	23:40	37.63	3/20/11	0:33	38.02
3/19/11	21:02	35.71	3/19/11	21:55	36.57	3/19/11	22:48	37.15	3/19/11	23:41	37.63	3/20/11	0:34	38.02
3/19/11	21:03	35.71	3/19/11	21:56	36.57	3/19/11	22:49	37.15	3/19/11	23:42	37.63	3/20/11	0:35	38.02
3/19/11	21:04	35.75	3/19/11	21:57	36.60	3/19/11	22:50	37.18	3/19/11	23:43	37.66	3/20/11	0:36	38.06
3/19/11	21:05	35.78	3/19/11	21:58	36.60	3/19/11	22:51	37.18	3/19/11	23:44	37.66	3/20/11	0:37	38.06
3/19/11	21:06	35.78	3/19/11	21:59	36.60	3/19/11	22:52	37.18	3/19/11	23:45	37.66	3/20/11	0:38	38.06
3/19/11	21:07	35.78	3/19/11	22:00	36.65	3/19/11	22:53	37.18	3/19/11	23:46	37.66	3/20/11	0:39	38.06
3/19/11	21:08	35.85	3/19/11	22:01	36.65	3/19/11	22:54	37.18	3/19/11	23:47	37.66	3/20/11	0:40	38.09
3/19/11	21:09	35.85	3/19/11	22:02	36.65	3/19/11	22:55	37.21	3/19/11	23:48	37.69	3/20/11	0:41	38.09
3/19/11	21:10	35.85	3/19/11	22:03	36.69	3/19/11	22:56	37.21	3/19/11	23:49	37.69	3/20/11	0:42	38.09
3/19/11	21:11	35.88	3/19/11	22:04	36.69	3/19/11	22:57	37.21	3/19/11	23:50	37.73	3/20/11	0:43	38.09
3/19/11	21:12	35.91	3/19/11	22:05	36.69	3/19/11	22:58	37.25	3/19/11	23:51	37.73	3/20/11	0:44	38.12
3/19/11	21:13	35.91	3/19/11	22:06	36.72	3/19/11	22:59	37.25	3/19/11	23:52	37.73	3/20/11	0:45	38.12
3/19/11	21:14	35.95	3/19/11	22:07	36.72	3/19/11	23:00	37.26	3/19/11	23:53	37.73	3/20/11	0:46	38.12
3/19/11	21:15	35.95	3/19/11	22:08	36.75	3/19/11	23:01	37.26	3/19/11	23:54	37.73	3/20/11	0:47	38.12
3/19/11	21:16	35.95	3/19/11	22:09	36.75	3/19/11	23:02	37.26	3/19/11	23:55	37.73	3/20/11	0:48	38.12
3/19/11	21:17	35.98	3/19/11	22:10	36.75	3/19/11	23:03	37.30	3/19/11	23:56	37.76	3/20/11	0:49	38.12
3/19/11	21:18	36.01	3/19/11	22:11	36.79	3/19/11	23:04	37.30	3/19/11	23:57	37.76	3/20/11	0:50	38.15
3/19/11	21:19	36.01	3/19/11	22:12	36.79	3/19/11	23:05	37.30	3/19/11	23:58	37.76	3/20/11	0:51	38.15
3/19/11	21:20	36.04	3/19/11	22:13	36.79	3/19/11	23:06	37.33	3/19/11	23:59	37.76	3/20/11	0:52	38.15
3/19/11	21:21	36.04	3/19/11	22:14	36.79	3/19/11	23:07	37.33	3/20/11	0:00	37.79	3/20/11	0:53	38.15
3/19/11	21:22	36.08	3/19/11	22:15	36.82	3/19/11	23:08	37.33	3/20/11	0:01	37.79	3/20/11	0:54	38.15
3/19/11	21:23	36.08	3/19/11	22:16	36.82	3/19/11	23:09	37.33	3/20/11	0:02	37.79	3/20/11	0:55	38.15
3/19/11	21:24	36.11	3/19/11	22:17	36.85	3/19/11	23:10	37.33	3/20/11	0:03	37.79	3/20/11	0:56	38.15
3/19/11	21:25	36.11	3/19/11	22:18	36.85	3/19/11	23:11	37.36	3/20/11	0:04	37.79	3/20/11	0:57	38.19
3/19/11	21:26	36.11	3/19/11	22:19	36.85	3/19/11	23:12	37.36	3/20/11	0:05	37.82	3/20/11	0:58	38.19
3/19/11	21:27	36.14	3/19/11	22:20	36.85	3/19/11	23:13	37.36	3/20/11	0:06	37.82	3/20/11	0:59	38.19
3/19/11	21:28	36.18	3/19/11	22:21	36.88	3/19/11	23:14	37.40	3/20/11	0:07	37.82	3/20/11	1:00	38.19
3/19/11	21:29	36.18	3/19/11	22:22	36.88	3/19/11	23:15	37.40	3/20/11	0:08	37.82	3/20/11	1:01	38.19
3/19/11	21:30	36.21	3/19/11	22:23	36.88	3/19/11	23:16	37.40	3/20/11	0:09	37.86	3/20/11	1:02	38.22
3/19/11	21:31	36.21	3/19/11	22:24	36.88	3/19/11	23:17	37.43	3/20/11	0:10	37.86	3/20/11	1:03	38.22
3/19/11	21:32	36.24	3/19/11	22:25	36.92	3/19/11	23:18	37.43	3/20/11	0:11	37.86	3/20/11	1:04	38.22
3/19/11	21:33	36.24	3/19/11	22:26	36.92	3/19/11	23:19	37.43	3/20/11	0:12	37.86	3/20/11	1:05	38.22
3/19/11	21:34	36.24	3/19/11	22:27	36.92	3/19/11	23:20	37.43	3/20/11	0:13	37.86	3/20/11	1:06	38.25
3/19/11	21:35	36.27	3/19/11	22:28	36.95	3/19/11	23:21	37.46	3/20/11	0:14	37.86	3/20/11	1:07	38.25
3/19/11	21:36	36.27	3/19/11	22:29	36.95	3/19/11	23:22	37.46	3/20/11	0:15	37.89	3/20/11	1:08	38.25

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	1:09	38.25	3/20/11	2:02	38.55	3/20/11	2:55	38.78	3/20/11	3:48	38.96	3/20/11	4:41	39.06
3/20/11	1:10	38.25	3/20/11	2:03	38.58	3/20/11	2:56	38.78	3/20/11	3:49	38.96	3/20/11	4:42	39.06
3/20/11	1:11	38.25	3/20/11	2:04	38.58	3/20/11	2:57	38.81	3/20/11	3:50	38.96	3/20/11	4:43	39.06
3/20/11	1:12	38.25	3/20/11	2:05	38.58	3/20/11	2:58	38.81	3/20/11	3:51	38.96	3/20/11	4:44	39.06
3/20/11	1:13	38.29	3/20/11	2:06	38.58	3/20/11	2:59	38.81	3/20/11	3:52	38.96	3/20/11	4:45	39.06
3/20/11	1:14	38.29	3/20/11	2:07	38.58	3/20/11	3:00	38.80	3/20/11	3:53	38.96	3/20/11	4:46	39.06
3/20/11	1:15	38.29	3/20/11	2:08	38.58	3/20/11	3:01	38.80	3/20/11	3:54	38.96	3/20/11	4:47	39.09
3/20/11	1:16	38.29	3/20/11	2:09	38.58	3/20/11	3:02	38.80	3/20/11	3:55	38.96	3/20/11	4:48	39.09
3/20/11	1:17	38.32	3/20/11	2:10	38.62	3/20/11	3:03	38.83	3/20/11	3:56	38.96	3/20/11	4:49	39.09
3/20/11	1:18	38.32	3/20/11	2:11	38.62	3/20/11	3:04	38.80	3/20/11	3:57	38.96	3/20/11	4:50	39.09
3/20/11	1:19	38.32	3/20/11	2:12	38.62	3/20/11	3:05	38.83	3/20/11	3:58	38.96	3/20/11	4:51	39.09
3/20/11	1:20	38.32	3/20/11	2:13	38.62	3/20/11	3:06	38.83	3/20/11	3:59	38.96	3/20/11	4:52	39.09
3/20/11	1:21	38.32	3/20/11	2:14	38.62	3/20/11	3:07	38.83	3/20/11	4:00	38.96	3/20/11	4:53	39.09
3/20/11	1:22	38.35	3/20/11	2:15	38.62	3/20/11	3:08	38.83	3/20/11	4:01	38.99	3/20/11	4:54	39.09
3/20/11	1:23	38.35	3/20/11	2:16	38.62	3/20/11	3:09	38.83	3/20/11	4:02	38.99	3/20/11	4:55	39.09
3/20/11	1:24	38.35	3/20/11	2:17	38.65	3/20/11	3:10	38.83	3/20/11	4:03	38.99	3/20/11	4:56	39.09
3/20/11	1:25	38.35	3/20/11	2:18	38.65	3/20/11	3:11	38.86	3/20/11	4:04	38.99	3/20/11	4:57	39.09
3/20/11	1:26	38.35	3/20/11	2:19	38.65	3/20/11	3:12	38.83	3/20/11	4:05	38.99	3/20/11	4:58	39.13
3/20/11	1:27	38.35	3/20/11	2:20	38.65	3/20/11	3:13	38.86	3/20/11	4:06	38.99	3/20/11	4:59	39.09
3/20/11	1:28	38.38	3/20/11	2:21	38.65	3/20/11	3:14	38.83	3/20/11	4:07	38.99	3/20/11	5:00	39.13
3/20/11	1:29	38.38	3/20/11	2:22	38.65	3/20/11	3:15	38.86	3/20/11	4:08	38.99	3/20/11	5:01	39.09
3/20/11	1:30	38.38	3/20/11	2:23	38.65	3/20/11	3:16	38.86	3/20/11	4:09	38.99	3/20/11	5:02	39.13
3/20/11	1:31	38.38	3/20/11	2:24	38.68	3/20/11	3:17	38.86	3/20/11	4:10	38.99	3/20/11	5:03	39.13
3/20/11	1:32	38.38	3/20/11	2:25	38.68	3/20/11	3:18	38.86	3/20/11	4:11	38.99	3/20/11	5:04	39.13
3/20/11	1:33	38.38	3/20/11	2:26	38.68	3/20/11	3:19	38.86	3/20/11	4:12	38.99	3/20/11	5:05	39.13
3/20/11	1:34	38.38	3/20/11	2:27	38.68	3/20/11	3:20	38.86	3/20/11	4:13	38.99	3/20/11	5:06	39.13
3/20/11	1:35	38.42	3/20/11	2:28	38.68	3/20/11	3:21	38.86	3/20/11	4:14	38.99	3/20/11	5:07	39.13
3/20/11	1:36	38.42	3/20/11	2:29	38.68	3/20/11	3:22	38.86	3/20/11	4:15	39.03	3/20/11	5:08	39.13
3/20/11	1:37	38.42	3/20/11	2:30	38.68	3/20/11	3:23	38.90	3/20/11	4:16	38.99	3/20/11	5:09	39.13
3/20/11	1:38	38.42	3/20/11	2:31	38.68	3/20/11	3:24	38.90	3/20/11	4:17	38.99	3/20/11	5:10	39.13
3/20/11	1:39	38.45	3/20/11	2:32	38.71	3/20/11	3:25	38.90	3/20/11	4:18	39.03	3/20/11	5:11	39.13
3/20/11	1:40	38.45	3/20/11	2:33	38.71	3/20/11	3:26	38.90	3/20/11	4:19	39.03	3/20/11	5:12	39.16
3/20/11	1:41	38.45	3/20/11	2:34	38.71	3/20/11	3:27	38.90	3/20/11	4:20	39.03	3/20/11	5:13	39.16
3/20/11	1:42	38.45	3/20/11	2:35	38.71	3/20/11	3:28	38.90	3/20/11	4:21	39.03	3/20/11	5:14	39.13
3/20/11	1:43	38.45	3/20/11	2:36	38.71	3/20/11	3:29	38.90	3/20/11	4:22	39.03	3/20/11	5:15	39.13
3/20/11	1:44	38.48	3/20/11	2:37	38.71	3/20/11	3:30	38.90	3/20/11	4:23	39.03	3/20/11	5:16	39.13
3/20/11	1:45	38.45	3/20/11	2:38	38.71	3/20/11	3:31	38.90	3/20/11	4:24	39.03	3/20/11	5:17	39.16
3/20/11	1:46	38.48	3/20/11	2:39	38.71	3/20/11	3:32	38.90	3/20/11	4:25	39.03	3/20/11	5:18	39.16
3/20/11	1:47	38.48	3/20/11	2:40	38.71	3/20/11	3:33	38.90	3/20/11	4:26	39.03	3/20/11	5:19	39.16
3/20/11	1:48	38.48	3/20/11	2:41	38.75	3/20/11	3:34	38.90	3/20/11	4:27	39.03	3/20/11	5:20	39.16
3/20/11	1:49	38.48	3/20/11	2:42	38.75	3/20/11	3:35	38.90	3/20/11	4:28	39.03	3/20/11	5:21	39.16
3/20/11	1:50	38.48	3/20/11	2:43	38.75	3/20/11	3:36	38.90	3/20/11	4:29	39.03	3/20/11	5:22	39.16
3/20/11	1:51	38.52	3/20/11	2:44	38.75	3/20/11	3:37	38.90	3/20/11	4:30	39.03	3/20/11	5:23	39.16
3/20/11	1:52	38.52	3/20/11	2:45	38.75	3/20/11	3:38	38.93	3/20/11	4:31	39.03	3/20/11	5:24	39.16
3/20/11	1:53	38.52	3/20/11	2:46	38.75	3/20/11	3:39	38.93	3/20/11	4:32	39.03	3/20/11	5:25	39.16
3/20/11	1:54	38.52	3/20/11	2:47	38.78	3/20/11	3:40	38.93	3/20/11	4:33	39.03	3/20/11	5:26	39.16
3/20/11	1:55	38.52	3/20/11	2:48	38.78	3/20/11	3:41	38.93	3/20/11	4:34	39.03	3/20/11	5:27	39.16
3/20/11	1:56	38.52	3/20/11	2:49	38.78	3/20/11	3:42	38.93	3/20/11	4:35	39.03	3/20/11	5:28	39.16
3/20/11	1:57	38.55	3/20/11	2:50	38.78	3/20/11	3:43	38.96	3/20/11	4:36	39.06	3/20/11	5:29	39.16
3/20/11	1:58	38.55	3/20/11	2:51	38.78	3/20/11	3:44	38.93	3/20/11	4:37	39.06	3/20/11	5:30	39.16
3/20/11	1:59	38.55	3/20/11	2:52	38.78	3/20/11	3:45	38.96	3/20/11	4:38	39.06	3/20/11	5:31	39.16
3/20/11	2:00	38.55	3/20/11	2:53	38.78	3/20/11	3:46	38.93	3/20/11	4:39	39.06	3/20/11	5:32	39.16
3/20/11	2:01	38.55	3/20/11	2:54	38.78	3/20/11	3:47	38.93	3/20/11	4:40	39.06	3/20/11	5:33	39.16

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	5:34	39.16	3/20/11	6:27	39.18	3/20/11	7:20	39.32	3/20/11	8:13	39.60	3/20/11	9:06	39.74
3/20/11	5:35	39.16	3/20/11	6:28	39.18	3/20/11	7:21	39.32	3/20/11	8:14	39.60	3/20/11	9:07	39.74
3/20/11	5:36	39.16	3/20/11	6:29	39.18	3/20/11	7:22	39.32	3/20/11	8:15	39.60	3/20/11	9:08	39.74
3/20/11	5:37	39.16	3/20/11	6:30	39.14	3/20/11	7:23	39.32	3/20/11	8:16	39.60	3/20/11	9:09	39.74
3/20/11	5:38	39.16	3/20/11	6:31	39.11	3/20/11	7:24	39.32	3/20/11	8:17	39.60	3/20/11	9:10	39.74
3/20/11	5:39	39.19	3/20/11	6:32	39.11	3/20/11	7:25	39.36	3/20/11	8:18	39.60	3/20/11	9:11	39.77
3/20/11	5:40	39.19	3/20/11	6:33	39.11	3/20/11	7:26	39.32	3/20/11	8:19	39.60	3/20/11	9:12	39.74
3/20/11	5:41	39.19	3/20/11	6:34	39.11	3/20/11	7:27	39.36	3/20/11	8:20	39.60	3/20/11	9:13	39.74
3/20/11	5:42	39.19	3/20/11	6:35	39.11	3/20/11	7:28	39.36	3/20/11	8:21	39.60	3/20/11	9:14	39.74
3/20/11	5:43	39.19	3/20/11	6:36	39.11	3/20/11	7:29	39.36	3/20/11	8:22	39.60	3/20/11	9:15	39.77
3/20/11	5:44	39.19	3/20/11	6:37	39.08	3/20/11	7:30	39.36	3/20/11	8:23	39.60	3/20/11	9:16	39.77
3/20/11	5:45	39.19	3/20/11	6:38	39.08	3/20/11	7:31	39.39	3/20/11	8:24	39.60	3/20/11	9:17	39.77
3/20/11	5:46	39.19	3/20/11	6:39	39.08	3/20/11	7:32	39.39	3/20/11	8:25	39.60	3/20/11	9:18	39.77
3/20/11	5:47	39.19	3/20/11	6:40	39.08	3/20/11	7:33	39.39	3/20/11	8:26	39.60	3/20/11	9:19	39.77
3/20/11	5:48	39.19	3/20/11	6:41	39.08	3/20/11	7:34	39.39	3/20/11	8:27	39.60	3/20/11	9:20	39.77
3/20/11	5:49	39.19	3/20/11	6:42	39.08	3/20/11	7:35	39.39	3/20/11	8:28	39.64	3/20/11	9:21	39.77
3/20/11	5:50	39.19	3/20/11	6:43	39.11	3/20/11	7:36	39.39	3/20/11	8:29	39.60	3/20/11	9:22	39.77
3/20/11	5:51	39.19	3/20/11	6:44	39.08	3/20/11	7:37	39.42	3/20/11	8:30	39.60	3/20/11	9:23	39.77
3/20/11	5:52	39.19	3/20/11	6:45	39.11	3/20/11	7:38	39.42	3/20/11	8:31	39.64	3/20/11	9:24	39.77
3/20/11	5:53	39.22	3/20/11	6:46	39.11	3/20/11	7:39	39.42	3/20/11	8:32	39.60	3/20/11	9:25	39.77
3/20/11	5:54	39.22	3/20/11	6:47	39.11	3/20/11	7:40	39.46	3/20/11	8:33	39.64	3/20/11	9:26	39.77
3/20/11	5:55	39.22	3/20/11	6:48	39.11	3/20/11	7:41	39.46	3/20/11	8:34	39.64	3/20/11	9:27	39.77
3/20/11	5:56	39.22	3/20/11	6:49	39.11	3/20/11	7:42	39.46	3/20/11	8:35	39.60	3/20/11	9:28	39.77
3/20/11	5:57	39.22	3/20/11	6:50	39.11	3/20/11	7:43	39.46	3/20/11	8:36	39.60	3/20/11	9:29	39.77
3/20/11	5:58	39.22	3/20/11	6:51	39.11	3/20/11	7:44	39.46	3/20/11	8:37	39.64	3/20/11	9:30	39.77
3/20/11	5:59	39.22	3/20/11	6:52	39.14	3/20/11	7:45	39.46	3/20/11	8:38	39.64	3/20/11	9:31	39.77
3/20/11	6:00	39.24	3/20/11	6:53	39.14	3/20/11	7:46	39.49	3/20/11	8:39	39.64	3/20/11	9:32	39.80
3/20/11	6:01	39.24	3/20/11	6:54	39.14	3/20/11	7:47	39.49	3/20/11	8:40	39.64	3/20/11	9:33	39.77
3/20/11	6:02	39.24	3/20/11	6:55	39.14	3/20/11	7:48	39.49	3/20/11	8:41	39.64	3/20/11	9:34	39.80
3/20/11	6:03	39.24	3/20/11	6:56	39.14	3/20/11	7:49	39.52	3/20/11	8:42	39.67	3/20/11	9:35	39.80
3/20/11	6:04	39.24	3/20/11	6:57	39.18	3/20/11	7:50	39.52	3/20/11	8:43	39.64	3/20/11	9:36	39.80
3/20/11	6:05	39.24	3/20/11	6:58	39.18	3/20/11	7:51	39.52	3/20/11	8:44	39.67	3/20/11	9:37	39.80
3/20/11	6:06	39.24	3/20/11	6:59	39.18	3/20/11	7:52	39.52	3/20/11	8:45	39.64	3/20/11	9:38	39.80
3/20/11	6:07	39.24	3/20/11	7:00	39.19	3/20/11	7:53	39.52	3/20/11	8:46	39.67	3/20/11	9:39	39.80
3/20/11	6:08	39.24	3/20/11	7:01	39.22	3/20/11	7:54	39.52	3/20/11	8:47	39.67	3/20/11	9:40	39.80
3/20/11	6:09	39.24	3/20/11	7:02	39.22	3/20/11	7:55	39.52	3/20/11	8:48	39.67	3/20/11	9:41	39.84
3/20/11	6:10	39.24	3/20/11	7:03	39.22	3/20/11	7:56	39.52	3/20/11	8:49	39.67	3/20/11	9:42	39.84
3/20/11	6:11	39.24	3/20/11	7:04	39.22	3/20/11	7:57	39.52	3/20/11	8:50	39.67	3/20/11	9:43	39.84
3/20/11	6:12	39.24	3/20/11	7:05	39.26	3/20/11	7:58	39.55	3/20/11	8:51	39.67	3/20/11	9:44	39.84
3/20/11	6:13	39.24	3/20/11	7:06	39.26	3/20/11	7:59	39.55	3/20/11	8:52	39.67	3/20/11	9:45	39.84
3/20/11	6:14	39.24	3/20/11	7:07	39.26	3/20/11	8:00	39.57	3/20/11	8:53	39.67	3/20/11	9:46	39.84
3/20/11	6:15	39.27	3/20/11	7:08	39.26	3/20/11	8:01	39.57	3/20/11	8:54	39.67	3/20/11	9:47	39.84
3/20/11	6:16	39.24	3/20/11	7:09	39.29	3/20/11	8:02	39.57	3/20/11	8:55	39.67	3/20/11	9:48	39.84
3/20/11	6:17	39.27	3/20/11	7:10	39.26	3/20/11	8:03	39.57	3/20/11	8:56	39.67	3/20/11	9:49	39.84
3/20/11	6:18	39.24	3/20/11	7:11	39.26	3/20/11	8:04	39.57	3/20/11	8:57	39.67	3/20/11	9:50	39.84
3/20/11	6:19	39.24	3/20/11	7:12	39.29	3/20/11	8:05	39.57	3/20/11	8:58	39.67	3/20/11	9:51	39.84
3/20/11	6:20	39.27	3/20/11	7:13	39.29	3/20/11	8:06	39.57	3/20/11	8:59	39.67	3/20/11	9:52	39.84
3/20/11	6:21	39.24	3/20/11	7:14	39.29	3/20/11	8:07	39.57	3/20/11	9:00	39.74	3/20/11	9:53	39.84
3/20/11	6:22	39.24	3/20/11	7:15	39.29	3/20/11	8:08	39.57	3/20/11	9:01	39.70	3/20/11	9:54	39.84
3/20/11	6:23	39.24	3/20/11	7:16	39.32	3/20/11	8:09	39.57	3/20/11	9:02	39.74	3/20/11	9:55	39.87
3/20/11	6:24	39.24	3/20/11	7:17	39.32	3/20/11	8:10	39.60	3/20/11	9:03	39.74	3/20/11	9:56	39.87
3/20/11	6:25	39.21	3/20/11	7:18	39.32	3/20/11	8:11	39.57	3/20/11	9:04	39.74	3/20/11	9:57	39.87
3/20/11	6:26	39.21	3/20/11	7:19	39.32	3/20/11	8:12	39.57	3/20/11	9:05	39.74	3/20/11	9:58	39.87

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	9:59	39.87	3/20/11	10:52	39.97	3/20/11	11:45	40.05	3/20/11	12:38	40.15	3/20/11	13:31	40.21
3/20/11	10:00	39.87	3/20/11	10:53	39.97	3/20/11	11:46	40.05	3/20/11	12:39	40.15	3/20/11	13:32	40.21
3/20/11	10:01	39.87	3/20/11	10:54	39.97	3/20/11	11:47	40.08	3/20/11	12:40	40.15	3/20/11	13:33	40.21
3/20/11	10:02	39.87	3/20/11	10:55	40.00	3/20/11	11:48	40.08	3/20/11	12:41	40.15	3/20/11	13:34	40.21
3/20/11	10:03	39.87	3/20/11	10:56	40.00	3/20/11	11:49	40.08	3/20/11	12:42	40.15	3/20/11	13:35	40.21
3/20/11	10:04	39.87	3/20/11	10:57	40.00	3/20/11	11:50	40.05	3/20/11	12:43	40.15	3/20/11	13:36	40.21
3/20/11	10:05	39.87	3/20/11	10:58	40.00	3/20/11	11:51	40.08	3/20/11	12:44	40.15	3/20/11	13:37	40.21
3/20/11	10:06	39.87	3/20/11	10:59	40.00	3/20/11	11:52	40.08	3/20/11	12:45	40.15	3/20/11	13:38	40.21
3/20/11	10:07	39.87	3/20/11	11:00	39.98	3/20/11	11:53	40.08	3/20/11	12:46	40.15	3/20/11	13:39	40.21
3/20/11	10:08	39.90	3/20/11	11:01	39.98	3/20/11	11:54	40.08	3/20/11	12:47	40.15	3/20/11	13:40	40.25
3/20/11	10:09	39.90	3/20/11	11:02	39.98	3/20/11	11:55	40.08	3/20/11	12:48	40.15	3/20/11	13:41	40.25
3/20/11	10:10	39.90	3/20/11	11:03	40.02	3/20/11	11:56	40.08	3/20/11	12:49	40.15	3/20/11	13:42	40.25
3/20/11	10:11	39.90	3/20/11	11:04	39.98	3/20/11	11:57	40.08	3/20/11	12:50	40.18	3/20/11	13:43	40.25
3/20/11	10:12	39.90	3/20/11	11:05	39.98	3/20/11	11:58	40.08	3/20/11	12:51	40.18	3/20/11	13:44	40.21
3/20/11	10:13	39.90	3/20/11	11:06	39.98	3/20/11	11:59	40.08	3/20/11	12:52	40.18	3/20/11	13:45	40.25
3/20/11	10:14	39.90	3/20/11	11:07	40.02	3/20/11	12:00	40.08	3/20/11	12:53	40.15	3/20/11	13:46	40.25
3/20/11	10:15	39.90	3/20/11	11:08	40.02	3/20/11	12:01	40.08	3/20/11	12:54	40.18	3/20/11	13:47	40.25
3/20/11	10:16	39.90	3/20/11	11:09	40.02	3/20/11	12:02	40.08	3/20/11	12:55	40.18	3/20/11	13:48	40.25
3/20/11	10:17	39.90	3/20/11	11:10	40.02	3/20/11	12:03	40.08	3/20/11	12:56	40.18	3/20/11	13:49	40.25
3/20/11	10:18	39.90	3/20/11	11:11	40.02	3/20/11	12:04	40.08	3/20/11	12:57	40.18	3/20/11	13:50	40.25
3/20/11	10:19	39.90	3/20/11	11:12	40.02	3/20/11	12:05	40.12	3/20/11	12:58	40.18	3/20/11	13:51	40.25
3/20/11	10:20	39.90	3/20/11	11:13	40.02	3/20/11	12:06	40.08	3/20/11	12:59	40.18	3/20/11	13:52	40.25
3/20/11	10:21	39.90	3/20/11	11:14	40.02	3/20/11	12:07	40.08	3/20/11	13:00	40.15	3/20/11	13:53	40.25
3/20/11	10:22	39.90	3/20/11	11:15	40.02	3/20/11	12:08	40.08	3/20/11	13:01	40.15	3/20/11	13:54	40.25
3/20/11	10:23	39.90	3/20/11	11:16	40.02	3/20/11	12:09	40.12	3/20/11	13:02	40.15	3/20/11	13:55	40.25
3/20/11	10:24	39.93	3/20/11	11:17	40.02	3/20/11	12:10	40.12	3/20/11	13:03	40.15	3/20/11	13:56	40.25
3/20/11	10:25	39.93	3/20/11	11:18	40.02	3/20/11	12:11	40.12	3/20/11	13:04	40.15	3/20/11	13:57	40.25
3/20/11	10:26	39.93	3/20/11	11:19	40.02	3/20/11	12:12	40.12	3/20/11	13:05	40.15	3/20/11	13:58	40.25
3/20/11	10:27	39.93	3/20/11	11:20	40.02	3/20/11	12:13	40.12	3/20/11	13:06	40.15	3/20/11	13:59	40.25
3/20/11	10:28	39.93	3/20/11	11:21	40.02	3/20/11	12:14	40.12	3/20/11	13:07	40.18	3/20/11	14:00	40.21
3/20/11	10:29	39.93	3/20/11	11:22	40.02	3/20/11	12:15	40.12	3/20/11	13:08	40.15	3/20/11	14:01	40.21
3/20/11	10:30	39.93	3/20/11	11:23	40.02	3/20/11	12:16	40.12	3/20/11	13:09	40.18	3/20/11	14:02	40.21
3/20/11	10:31	39.93	3/20/11	11:24	40.02	3/20/11	12:17	40.12	3/20/11	13:10	40.18	3/20/11	14:03	40.21
3/20/11	10:32	39.93	3/20/11	11:25	40.02	3/20/11	12:18	40.12	3/20/11	13:11	40.18	3/20/11	14:04	40.25
3/20/11	10:33	39.93	3/20/11	11:26	40.02	3/20/11	12:19	40.12	3/20/11	13:12	40.18	3/20/11	14:05	40.25
3/20/11	10:34	39.97	3/20/11	11:27	40.05	3/20/11	12:20	40.12	3/20/11	13:13	40.18	3/20/11	14:06	40.25
3/20/11	10:35	39.93	3/20/11	11:28	40.05	3/20/11	12:21	40.12	3/20/11	13:14	40.18	3/20/11	14:07	40.25
3/20/11	10:36	39.93	3/20/11	11:29	40.05	3/20/11	12:22	40.12	3/20/11	13:15	40.18	3/20/11	14:08	40.25
3/20/11	10:37	39.93	3/20/11	11:30	40.02	3/20/11	12:23	40.12	3/20/11	13:16	40.18	3/20/11	14:09	40.25
3/20/11	10:38	39.97	3/20/11	11:31	40.05	3/20/11	12:24	40.15	3/20/11	13:17	40.18	3/20/11	14:10	40.25
3/20/11	10:39	39.97	3/20/11	11:32	40.05	3/20/11	12:25	40.12	3/20/11	13:18	40.18	3/20/11	14:11	40.25
3/20/11	10:40	39.97	3/20/11	11:33	40.05	3/20/11	12:26	40.15	3/20/11	13:19	40.18	3/20/11	14:12	40.25
3/20/11	10:41	39.97	3/20/11	11:34	40.05	3/20/11	12:27	40.15	3/20/11	13:20	40.18	3/20/11	14:13	40.25
3/20/11	10:42	39.97	3/20/11	11:35	40.05	3/20/11	12:28	40.12	3/20/11	13:21	40.18	3/20/11	14:14	40.25
3/20/11	10:43	39.97	3/20/11	11:36	40.05	3/20/11	12:29	40.12	3/20/11	13:22	40.18	3/20/11	14:15	40.25
3/20/11	10:44	39.97	3/20/11	11:37	40.05	3/20/11	12:30	40.15	3/20/11	13:23	40.18	3/20/11	14:16	40.25
3/20/11	10:45	39.97	3/20/11	11:38	40.05	3/20/11	12:31	40.15	3/20/11	13:24	40.21	3/20/11	14:17	40.25
3/20/11	10:46	39.97	3/20/11	11:39	40.05	3/20/11	12:32	40.15	3/20/11	13:25	40.21	3/20/11	14:18	40.28
3/20/11	10:47	39.97	3/20/11	11:40	40.05	3/20/11	12:33	40.15	3/20/11	13:26	40.21	3/20/11	14:19	40.25
3/20/11	10:48	39.97	3/20/11	11:41	40.05	3/20/11	12:34	40.15	3/20/11	13:27	40.21	3/20/11	14:20	40.25
3/20/11	10:49	39.97	3/20/11	11:42	40.05	3/20/11	12:35	40.15	3/20/11	13:28	40.21	3/20/11	14:21	40.25
3/20/11	10:50	39.97	3/20/11	11:43	40.05	3/20/11	12:36	40.15	3/20/11	13:29	40.21	3/20/11	14:22	40.25
3/20/11	10:51	39.97	3/20/11	11:44	40.05	3/20/11	12:37	40.15	3/20/11	13:30	40.21	3/20/11	14:23	40.25

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	14:24	40.25	3/20/11	15:17	40.30	3/20/11	16:10	40.38	3/20/11	17:03	40.41	3/20/11	17:56	40.48
3/20/11	14:25	40.28	3/20/11	15:18	40.33	3/20/11	16:11	40.38	3/20/11	17:04	40.44	3/20/11	17:57	40.48
3/20/11	14:26	40.28	3/20/11	15:19	40.30	3/20/11	16:12	40.38	3/20/11	17:05	40.41	3/20/11	17:58	40.48
3/20/11	14:27	40.28	3/20/11	15:20	40.33	3/20/11	16:13	40.38	3/20/11	17:06	40.41	3/20/11	17:59	40.48
3/20/11	14:28	40.28	3/20/11	15:21	40.33	3/20/11	16:14	40.38	3/20/11	17:07	40.41	3/20/11	18:00	40.48
3/20/11	14:29	40.28	3/20/11	15:22	40.33	3/20/11	16:15	40.38	3/20/11	17:08	40.41	3/20/11	18:01	40.48
3/20/11	14:30	40.28	3/20/11	15:23	40.30	3/20/11	16:16	40.41	3/20/11	17:09	40.44	3/20/11	18:02	40.48
3/20/11	14:31	40.28	3/20/11	15:24	40.33	3/20/11	16:17	40.41	3/20/11	17:10	40.44	3/20/11	18:03	40.48
3/20/11	14:32	40.28	3/20/11	15:25	40.33	3/20/11	16:18	40.41	3/20/11	17:11	40.44	3/20/11	18:04	40.48
3/20/11	14:33	40.28	3/20/11	15:26	40.33	3/20/11	16:19	40.41	3/20/11	17:12	40.44	3/20/11	18:05	40.48
3/20/11	14:34	40.28	3/20/11	15:27	40.33	3/20/11	16:20	40.41	3/20/11	17:13	40.44	3/20/11	18:06	40.48
3/20/11	14:35	40.28	3/20/11	15:28	40.33	3/20/11	16:21	40.41	3/20/11	17:14	40.44	3/20/11	18:07	40.48
3/20/11	14:36	40.28	3/20/11	15:29	40.30	3/20/11	16:22	40.41	3/20/11	17:15	40.44	3/20/11	18:08	40.48
3/20/11	14:37	40.28	3/20/11	15:30	40.33	3/20/11	16:23	40.41	3/20/11	17:16	40.44	3/20/11	18:09	40.48
3/20/11	14:38	40.28	3/20/11	15:31	40.33	3/20/11	16:24	40.41	3/20/11	17:17	40.44	3/20/11	18:10	40.48
3/20/11	14:39	40.28	3/20/11	15:32	40.33	3/20/11	16:25	40.41	3/20/11	17:18	40.44	3/20/11	18:11	40.48
3/20/11	14:40	40.28	3/20/11	15:33	40.33	3/20/11	16:26	40.41	3/20/11	17:19	40.44	3/20/11	18:12	40.48
3/20/11	14:41	40.28	3/20/11	15:34	40.33	3/20/11	16:27	40.41	3/20/11	17:20	40.44	3/20/11	18:13	40.48
3/20/11	14:42	40.28	3/20/11	15:35	40.33	3/20/11	16:28	40.41	3/20/11	17:21	40.44	3/20/11	18:14	40.48
3/20/11	14:43	40.28	3/20/11	15:36	40.33	3/20/11	16:29	40.41	3/20/11	17:22	40.44	3/20/11	18:15	40.48
3/20/11	14:44	40.28	3/20/11	15:37	40.33	3/20/11	16:30	40.41	3/20/11	17:23	40.44	3/20/11	18:16	40.48
3/20/11	14:45	40.28	3/20/11	15:38	40.33	3/20/11	16:31	40.41	3/20/11	17:24	40.44	3/20/11	18:17	40.48
3/20/11	14:46	40.28	3/20/11	15:39	40.33	3/20/11	16:32	40.41	3/20/11	17:25	40.44	3/20/11	18:18	40.48
3/20/11	14:47	40.31	3/20/11	15:40	40.33	3/20/11	16:33	40.41	3/20/11	17:26	40.44	3/20/11	18:19	40.48
3/20/11	14:48	40.31	3/20/11	15:41	40.33	3/20/11	16:34	40.41	3/20/11	17:27	40.44	3/20/11	18:20	40.48
3/20/11	14:49	40.31	3/20/11	15:42	40.33	3/20/11	16:35	40.44	3/20/11	17:28	40.44	3/20/11	18:21	40.48
3/20/11	14:50	40.31	3/20/11	15:43	40.33	3/20/11	16:36	40.41	3/20/11	17:29	40.48	3/20/11	18:22	40.48
3/20/11	14:51	40.28	3/20/11	15:44	40.33	3/20/11	16:37	40.41	3/20/11	17:30	40.44	3/20/11	18:23	40.48
3/20/11	14:52	40.31	3/20/11	15:45	40.33	3/20/11	16:38	40.44	3/20/11	17:31	40.48	3/20/11	18:24	40.48
3/20/11	14:53	40.31	3/20/11	15:46	40.33	3/20/11	16:39	40.44	3/20/11	17:32	40.48	3/20/11	18:25	40.48
3/20/11	14:54	40.28	3/20/11	15:47	40.33	3/20/11	16:40	40.44	3/20/11	17:33	40.44	3/20/11	18:26	40.48
3/20/11	14:55	40.31	3/20/11	15:48	40.36	3/20/11	16:41	40.44	3/20/11	17:34	40.48	3/20/11	18:27	40.48
3/20/11	14:56	40.31	3/20/11	15:49	40.33	3/20/11	16:42	40.44	3/20/11	17:35	40.48	3/20/11	18:28	40.48
3/20/11	14:57	40.31	3/20/11	15:50	40.33	3/20/11	16:43	40.44	3/20/11	17:36	40.48	3/20/11	18:29	40.48
3/20/11	14:58	40.31	3/20/11	15:51	40.36	3/20/11	16:44	40.44	3/20/11	17:37	40.48	3/20/11	18:30	40.48
3/20/11	14:59	40.31	3/20/11	15:52	40.33	3/20/11	16:45	40.44	3/20/11	17:38	40.48	3/20/11	18:31	40.48
3/20/11	15:00	40.30	3/20/11	15:53	40.36	3/20/11	16:46	40.44	3/20/11	17:39	40.48	3/20/11	18:32	40.48
3/20/11	15:01	40.30	3/20/11	15:54	40.36	3/20/11	16:47	40.44	3/20/11	17:40	40.48	3/20/11	18:33	40.48
3/20/11	15:02	40.30	3/20/11	15:55	40.36	3/20/11	16:48	40.44	3/20/11	17:41	40.48	3/20/11	18:34	40.48
3/20/11	15:03	40.30	3/20/11	15:56	40.36	3/20/11	16:49	40.44	3/20/11	17:42	40.48	3/20/11	18:35	40.48
3/20/11	15:04	40.30	3/20/11	15:57	40.36	3/20/11	16:50	40.44	3/20/11	17:43	40.48	3/20/11	18:36	40.48
3/20/11	15:05	40.30	3/20/11	15:58	40.36	3/20/11	16:51	40.44	3/20/11	17:44	40.48	3/20/11	18:37	40.48
3/20/11	15:06	40.30	3/20/11	15:59	40.40	3/20/11	16:52	40.44	3/20/11	17:45	40.48	3/20/11	18:38	40.48
3/20/11	15:07	40.30	3/20/11	16:00	40.35	3/20/11	16:53	40.44	3/20/11	17:46	40.48	3/20/11	18:39	40.48
3/20/11	15:08	40.30	3/20/11	16:01	40.38	3/20/11	16:54	40.44	3/20/11	17:47	40.48	3/20/11	18:40	40.48
3/20/11	15:09	40.30	3/20/11	16:02	40.38	3/20/11	16:55	40.44	3/20/11	17:48	40.48	3/20/11	18:41	40.48
3/20/11	15:10	40.30	3/20/11	16:03	40.35	3/20/11	16:56	40.44	3/20/11	17:49	40.48	3/20/11	18:42	40.48
3/20/11	15:11	40.30	3/20/11	16:04	40.38	3/20/11	16:57	40.44	3/20/11	17:50	40.48	3/20/11	18:43	40.48
3/20/11	15:12	40.30	3/20/11	16:05	40.38	3/20/11	16:58	40.44	3/20/11	17:51	40.48	3/20/11	18:44	40.48
3/20/11	15:13	40.30	3/20/11	16:06	40.38	3/20/11	16:59	40.44	3/20/11	17:52	40.48	3/20/11	18:45	40.48
3/20/11	15:14	40.30	3/20/11	16:07	40.38	3/20/11	17:00	40.41	3/20/11	17:53	40.48	3/20/11	18:46	40.48
3/20/11	15:15	40.30	3/20/11	16:08	40.38	3/20/11	17:01	40.44	3/20/11	17:54	40.48	3/20/11	18:47	40.48
3/20/11	15:16	40.30	3/20/11	16:09	40.38	3/20/11	17:02	40.44	3/20/11	17:55	40.48	3/20/11	18:48	40.48

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	18:49	40.48	3/20/11	19:42	40.41	3/20/11	20:35	40.54	3/20/11	21:28	40.66	3/20/11	22:21	40.74
3/20/11	18:50	40.48	3/20/11	19:43	40.41	3/20/11	20:36	40.54	3/20/11	21:29	40.63	3/20/11	22:22	40.74
3/20/11	18:51	40.48	3/20/11	19:44	40.44	3/20/11	20:37	40.54	3/20/11	21:30	40.66	3/20/11	22:23	40.74
3/20/11	18:52	40.48	3/20/11	19:45	40.44	3/20/11	20:38	40.54	3/20/11	21:31	40.66	3/20/11	22:24	40.71
3/20/11	18:53	40.48	3/20/11	19:46	40.41	3/20/11	20:39	40.54	3/20/11	21:32	40.66	3/20/11	22:25	40.71
3/20/11	18:54	40.48	3/20/11	19:47	40.44	3/20/11	20:40	40.54	3/20/11	21:33	40.66	3/20/11	22:26	40.71
3/20/11	18:55	40.48	3/20/11	19:48	40.41	3/20/11	20:41	40.54	3/20/11	21:34	40.66	3/20/11	22:27	40.71
3/20/11	18:56	40.48	3/20/11	19:49	40.44	3/20/11	20:42	40.54	3/20/11	21:35	40.66	3/20/11	22:28	40.71
3/20/11	18:57	40.48	3/20/11	19:50	40.44	3/20/11	20:43	40.54	3/20/11	21:36	40.66	3/20/11	22:29	40.71
3/20/11	18:58	40.48	3/20/11	19:51	40.44	3/20/11	20:44	40.54	3/20/11	21:37	40.66	3/20/11	22:30	40.71
3/20/11	18:59	40.48	3/20/11	19:52	40.44	3/20/11	20:45	40.58	3/20/11	21:38	40.66	3/20/11	22:31	40.71
3/20/11	19:00	40.48	3/20/11	19:53	40.44	3/20/11	20:46	40.54	3/20/11	21:39	40.66	3/20/11	22:32	40.71
3/20/11	19:01	40.48	3/20/11	19:54	40.44	3/20/11	20:47	40.58	3/20/11	21:40	40.66	3/20/11	22:33	40.71
3/20/11	19:02	40.48	3/20/11	19:55	40.44	3/20/11	20:48	40.54	3/20/11	21:41	40.66	3/20/11	22:34	40.71
3/20/11	19:03	40.48	3/20/11	19:56	40.44	3/20/11	20:49	40.58	3/20/11	21:42	40.66	3/20/11	22:35	40.71
3/20/11	19:04	40.48	3/20/11	19:57	40.44	3/20/11	20:50	40.58	3/20/11	21:43	40.66	3/20/11	22:36	40.71
3/20/11	19:05	40.48	3/20/11	19:58	40.44	3/20/11	20:51	40.58	3/20/11	21:44	40.66	3/20/11	22:37	40.71
3/20/11	19:06	40.48	3/20/11	19:59	40.44	3/20/11	20:52	40.58	3/20/11	21:45	40.66	3/20/11	22:38	40.71
3/20/11	19:07	40.48	3/20/11	20:00	40.44	3/20/11	20:53	40.58	3/20/11	21:46	40.66	3/20/11	22:39	40.71
3/20/11	19:08	40.48	3/20/11	20:01	40.44	3/20/11	20:54	40.58	3/20/11	21:47	40.69	3/20/11	22:40	40.71
3/20/11	19:09	40.48	3/20/11	20:02	40.48	3/20/11	20:55	40.58	3/20/11	21:48	40.69	3/20/11	22:41	40.71
3/20/11	19:10	40.48	3/20/11	20:03	40.48	3/20/11	20:56	40.58	3/20/11	21:49	40.69	3/20/11	22:42	40.71
3/20/11	19:11	40.48	3/20/11	20:04	40.48	3/20/11	20:57	40.58	3/20/11	21:50	40.69	3/20/11	22:43	40.71
3/20/11	19:12	40.48	3/20/11	20:05	40.48	3/20/11	20:58	40.58	3/20/11	21:51	40.69	3/20/11	22:44	40.71
3/20/11	19:13	40.48	3/20/11	20:06	40.48	3/20/11	20:59	40.58	3/20/11	21:52	40.69	3/20/11	22:45	40.71
3/20/11	19:14	40.48	3/20/11	20:07	40.48	3/20/11	21:00	40.63	3/20/11	21:53	40.69	3/20/11	22:46	40.71
3/20/11	19:15	40.48	3/20/11	20:08	40.48	3/20/11	21:01	40.63	3/20/11	21:54	40.69	3/20/11	22:47	40.71
3/20/11	19:16	40.48	3/20/11	20:09	40.48	3/20/11	21:02	40.63	3/20/11	21:55	40.69	3/20/11	22:48	40.71
3/20/11	19:17	40.48	3/20/11	20:10	40.48	3/20/11	21:03	40.59	3/20/11	21:56	40.69	3/20/11	22:49	40.71
3/20/11	19:18	40.48	3/20/11	20:11	40.48	3/20/11	21:04	40.63	3/20/11	21:57	40.69	3/20/11	22:50	40.71
3/20/11	19:19	40.48	3/20/11	20:12	40.48	3/20/11	21:05	40.63	3/20/11	21:58	40.69	3/20/11	22:51	40.71
3/20/11	19:20	40.44	3/20/11	20:13	40.48	3/20/11	21:06	40.63	3/20/11	21:59	40.69	3/20/11	22:52	40.71
3/20/11	19:21	40.44	3/20/11	20:14	40.48	3/20/11	21:07	40.63	3/20/11	22:00	40.71	3/20/11	22:53	40.71
3/20/11	19:22	40.44	3/20/11	20:15	40.48	3/20/11	21:08	40.63	3/20/11	22:01	40.71	3/20/11	22:54	40.71
3/20/11	19:23	40.44	3/20/11	20:16	40.48	3/20/11	21:09	40.63	3/20/11	22:02	40.71	3/20/11	22:55	40.68
3/20/11	19:24	40.44	3/20/11	20:17	40.48	3/20/11	21:10	40.63	3/20/11	22:03	40.71	3/20/11	22:56	40.71
3/20/11	19:25	40.44	3/20/11	20:18	40.48	3/20/11	21:11	40.63	3/20/11	22:04	40.71	3/20/11	22:57	40.71
3/20/11	19:26	40.44	3/20/11	20:19	40.48	3/20/11	21:12	40.63	3/20/11	22:05	40.71	3/20/11	22:58	40.71
3/20/11	19:27	40.44	3/20/11	20:20	40.48	3/20/11	21:13	40.63	3/20/11	22:06	40.71	3/20/11	22:59	40.71
3/20/11	19:28	40.41	3/20/11	20:21	40.48	3/20/11	21:14	40.63	3/20/11	22:07	40.71	3/20/11	23:00	40.71
3/20/11	19:29	40.41	3/20/11	20:22	40.48	3/20/11	21:15	40.63	3/20/11	22:08	40.71	3/20/11	23:01	40.71
3/20/11	19:30	40.41	3/20/11	20:23	40.48	3/20/11	21:16	40.63	3/20/11	22:09	40.71	3/20/11	23:02	40.71
3/20/11	19:31	40.41	3/20/11	20:24	40.48	3/20/11	21:17	40.63	3/20/11	22:10	40.71	3/20/11	23:03	40.71
3/20/11	19:32	40.41	3/20/11	20:25	40.51	3/20/11	21:18	40.63	3/20/11	22:11	40.71	3/20/11	23:04	40.71
3/20/11	19:33	40.41	3/20/11	20:26	40.48	3/20/11	21:19	40.63	3/20/11	22:12	40.74	3/20/11	23:05	40.71
3/20/11	19:34	40.41	3/20/11	20:27	40.51	3/20/11	21:20	40.66	3/20/11	22:13	40.74	3/20/11	23:06	40.71
3/20/11	19:35	40.41	3/20/11	20:28	40.51	3/20/11	21:21	40.63	3/20/11	22:14	40.74	3/20/11	23:07	40.71
3/20/11	19:36	40.41	3/20/11	20:29	40.51	3/20/11	21:22	40.66	3/20/11	22:15	40.74	3/20/11	23:08	40.71
3/20/11	19:37	40.41	3/20/11	20:30	40.51	3/20/11	21:23	40.63	3/20/11	22:16	40.74	3/20/11	23:09	40.71
3/20/11	19:38	40.41	3/20/11	20:31	40.51	3/20/11	21:24	40.66	3/20/11	22:17	40.74	3/20/11	23:10	40.74
3/20/11	19:39	40.41	3/20/11	20:32	40.51	3/20/11	21:25	40.66	3/20/11	22:18	40.74	3/20/11	23:11	40.74
3/20/11	19:40	40.44	3/20/11	20:33	40.51	3/20/11	21:26	40.63	3/20/11	22:19	40.71	3/20/11	23:12	40.74
3/20/11	19:41	40.44	3/20/11	20:34	40.51	3/20/11	21:27	40.66	3/20/11	22:20	40.71	3/20/11	23:13	40.74

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	23:14	40.74	3/21/11	0:07	40.87	3/21/11	1:00	40.92	3/21/11	1:53	40.96	3/21/11	2:46	41.02
3/20/11	23:15	40.74	3/21/11	0:08	40.87	3/21/11	1:01	40.92	3/21/11	1:54	40.96	3/21/11	2:47	41.02
3/20/11	23:16	40.74	3/21/11	0:09	40.87	3/21/11	1:02	40.92	3/21/11	1:55	40.96	3/21/11	2:48	41.02
3/20/11	23:17	40.74	3/21/11	0:10	40.87	3/21/11	1:03	40.92	3/21/11	1:56	40.96	3/21/11	2:49	41.02
3/20/11	23:18	40.74	3/21/11	0:11	40.87	3/21/11	1:04	40.92	3/21/11	1:57	40.96	3/21/11	2:50	41.02
3/20/11	23:19	40.74	3/21/11	0:12	40.91	3/21/11	1:05	40.92	3/21/11	1:58	40.96	3/21/11	2:51	41.02
3/20/11	23:20	40.74	3/21/11	0:13	40.91	3/21/11	1:06	40.92	3/21/11	1:59	40.96	3/21/11	2:52	41.02
3/20/11	23:21	40.74	3/21/11	0:14	40.87	3/21/11	1:07	40.92	3/21/11	2:00	40.96	3/21/11	2:53	41.02
3/20/11	23:22	40.74	3/21/11	0:15	40.87	3/21/11	1:08	40.92	3/21/11	2:01	40.96	3/21/11	2:54	41.02
3/20/11	23:23	40.77	3/21/11	0:16	40.91	3/21/11	1:09	40.92	3/21/11	2:02	40.96	3/21/11	2:55	41.02
3/20/11	23:24	40.74	3/21/11	0:17	40.87	3/21/11	1:10	40.96	3/21/11	2:03	40.96	3/21/11	2:56	41.02
3/20/11	23:25	40.74	3/21/11	0:18	40.91	3/21/11	1:11	40.92	3/21/11	2:04	40.96	3/21/11	2:57	41.02
3/20/11	23:26	40.77	3/21/11	0:19	40.91	3/21/11	1:12	40.96	3/21/11	2:05	40.99	3/21/11	2:58	41.02
3/20/11	23:27	40.74	3/21/11	0:20	40.91	3/21/11	1:13	40.96	3/21/11	2:06	40.96	3/21/11	2:59	41.02
3/20/11	23:28	40.77	3/21/11	0:21	40.91	3/21/11	1:14	40.96	3/21/11	2:07	40.99	3/21/11	3:00	40.99
3/20/11	23:29	40.77	3/21/11	0:22	40.91	3/21/11	1:15	40.92	3/21/11	2:08	40.96	3/21/11	3:01	41.02
3/20/11	23:30	40.77	3/21/11	0:23	40.91	3/21/11	1:16	40.96	3/21/11	2:09	40.99	3/21/11	3:02	40.99
3/20/11	23:31	40.77	3/21/11	0:24	40.91	3/21/11	1:17	40.96	3/21/11	2:10	40.99	3/21/11	3:03	41.02
3/20/11	23:32	40.77	3/21/11	0:25	40.91	3/21/11	1:18	40.96	3/21/11	2:11	40.96	3/21/11	3:04	40.99
3/20/11	23:33	40.77	3/21/11	0:26	40.91	3/21/11	1:19	40.96	3/21/11	2:12	40.96	3/21/11	3:05	40.99
3/20/11	23:34	40.77	3/21/11	0:27	40.91	3/21/11	1:20	40.96	3/21/11	2:13	40.99	3/21/11	3:06	40.99
3/20/11	23:35	40.77	3/21/11	0:28	40.91	3/21/11	1:21	40.96	3/21/11	2:14	40.99	3/21/11	3:07	40.99
3/20/11	23:36	40.81	3/21/11	0:29	40.91	3/21/11	1:22	40.96	3/21/11	2:15	40.99	3/21/11	3:08	40.99
3/20/11	23:37	40.81	3/21/11	0:30	40.91	3/21/11	1:23	40.96	3/21/11	2:16	40.99	3/21/11	3:09	40.99
3/20/11	23:38	40.81	3/21/11	0:31	40.91	3/21/11	1:24	40.96	3/21/11	2:17	40.99	3/21/11	3:10	40.99
3/20/11	23:39	40.81	3/21/11	0:32	40.91	3/21/11	1:25	40.96	3/21/11	2:18	40.99	3/21/11	3:11	40.99
3/20/11	23:40	40.81	3/21/11	0:33	40.91	3/21/11	1:26	40.96	3/21/11	2:19	40.99	3/21/11	3:12	40.99
3/20/11	23:41	40.81	3/21/11	0:34	40.91	3/21/11	1:27	40.96	3/21/11	2:20	40.99	3/21/11	3:13	41.02
3/20/11	23:42	40.81	3/21/11	0:35	40.91	3/21/11	1:28	40.96	3/21/11	2:21	40.99	3/21/11	3:14	40.99
3/20/11	23:43	40.81	3/21/11	0:36	40.91	3/21/11	1:29	40.96	3/21/11	2:22	40.99	3/21/11	3:15	41.02
3/20/11	23:44	40.81	3/21/11	0:37	40.91	3/21/11	1:30	40.96	3/21/11	2:23	40.99	3/21/11	3:16	40.99
3/20/11	23:45	40.84	3/21/11	0:38	40.91	3/21/11	1:31	40.96	3/21/11	2:24	40.99	3/21/11	3:17	40.99
3/20/11	23:46	40.84	3/21/11	0:39	40.91	3/21/11	1:32	40.96	3/21/11	2:25	40.99	3/21/11	3:18	40.99
3/20/11	23:47	40.84	3/21/11	0:40	40.91	3/21/11	1:33	40.96	3/21/11	2:26	40.99	3/21/11	3:19	40.99
3/20/11	23:48	40.84	3/21/11	0:41	40.94	3/21/11	1:34	40.96	3/21/11	2:27	41.02	3/21/11	3:20	41.02
3/20/11	23:49	40.84	3/21/11	0:42	40.94	3/21/11	1:35	40.96	3/21/11	2:28	40.99	3/21/11	3:21	40.99
3/20/11	23:50	40.84	3/21/11	0:43	40.94	3/21/11	1:36	40.96	3/21/11	2:29	41.02	3/21/11	3:22	41.02
3/20/11	23:51	40.84	3/21/11	0:44	40.94	3/21/11	1:37	40.96	3/21/11	2:30	40.99	3/21/11	3:23	41.02
3/20/11	23:52	40.84	3/21/11	0:45	40.94	3/21/11	1:38	40.96	3/21/11	2:31	41.02	3/21/11	3:24	41.02
3/20/11	23:53	40.84	3/21/11	0:46	40.94	3/21/11	1:39	40.96	3/21/11	2:32	40.99	3/21/11	3:25	41.02
3/20/11	23:54	40.84	3/21/11	0:47	40.94	3/21/11	1:40	40.96	3/21/11	2:33	41.02	3/21/11	3:26	41.02
3/20/11	23:55	40.84	3/21/11	0:48	40.94	3/21/11	1:41	40.96	3/21/11	2:34	40.99	3/21/11	3:27	41.02
3/20/11	23:56	40.84	3/21/11	0:49	40.94	3/21/11	1:42	40.96	3/21/11	2:35	41.02	3/21/11	3:28	41.02
3/20/11	23:57	40.84	3/21/11	0:50	40.94	3/21/11	1:43	40.96	3/21/11	2:36	41.02	3/21/11	3:29	41.02
3/20/11	23:58	40.84	3/21/11	0:51	40.94	3/21/11	1:44	40.96	3/21/11	2:37	41.02	3/21/11	3:30	41.02
3/20/11	23:59	40.84	3/21/11	0:52	40.94	3/21/11	1:45	40.96	3/21/11	2:38	41.02	3/21/11	3:31	41.02
3/21/11	0:00	40.87	3/21/11	0:53	40.94	3/21/11	1:46	40.96	3/21/11	2:39	41.02	3/21/11	3:32	41.02
3/21/11	0:01	40.84	3/21/11	0:54	40.94	3/21/11	1:47	40.96	3/21/11	2:40	41.02	3/21/11	3:33	41.02
3/21/11	0:02	40.87	3/21/11	0:55	40.94	3/21/11	1:48	40.96	3/21/11	2:41	41.02	3/21/11	3:34	41.02
3/21/11	0:03	40.87	3/21/11	0:56	40.94	3/21/11	1:49	40.96	3/21/11	2:42	41.02	3/21/11	3:35	41.02
3/21/11	0:04	40.87	3/21/11	0:57	40.94	3/21/11	1:50	40.96	3/21/11	2:43	41.02	3/21/11	3:36	41.02
3/21/11	0:05	40.87	3/21/11	0:58	40.94	3/21/11	1:51	40.96	3/21/11	2:44	41.02	3/21/11	3:37	41.02
3/21/11	0:06	40.87	3/21/11	0:59	40.94	3/21/11	1:52	40.96	3/21/11	2:45	41.02	3/21/11	3:38	41.02

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	3:39	41.02	3/21/11	4:32	41.07	3/21/11	5:25	41.05	3/21/11	6:18	41.04	3/21/11	7:11	41.09
3/21/11	3:40	41.05	3/21/11	4:33	41.07	3/21/11	5:26	41.05	3/21/11	6:19	41.01	3/21/11	7:12	41.09
3/21/11	3:41	41.02	3/21/11	4:34	41.07	3/21/11	5:27	41.05	3/21/11	6:20	41.04	3/21/11	7:13	41.09
3/21/11	3:42	41.05	3/21/11	4:35	41.07	3/21/11	5:28	41.02	3/21/11	6:21	41.04	3/21/11	7:14	41.09
3/21/11	3:43	41.05	3/21/11	4:36	41.07	3/21/11	5:29	41.02	3/21/11	6:22	41.04	3/21/11	7:15	41.09
3/21/11	3:44	41.05	3/21/11	4:37	41.07	3/21/11	5:30	41.02	3/21/11	6:23	41.04	3/21/11	7:16	41.09
3/21/11	3:45	41.05	3/21/11	4:38	41.07	3/21/11	5:31	41.02	3/21/11	6:24	41.04	3/21/11	7:17	41.09
3/21/11	3:46	41.05	3/21/11	4:39	41.07	3/21/11	5:32	41.02	3/21/11	6:25	41.04	3/21/11	7:18	41.09
3/21/11	3:47	41.05	3/21/11	4:40	41.07	3/21/11	5:33	41.02	3/21/11	6:26	41.04	3/21/11	7:19	41.09
3/21/11	3:48	41.05	3/21/11	4:41	41.07	3/21/11	5:34	41.02	3/21/11	6:27	41.04	3/21/11	7:20	41.09
3/21/11	3:49	41.05	3/21/11	4:42	41.07	3/21/11	5:35	41.02	3/21/11	6:28	41.04	3/21/11	7:21	41.09
3/21/11	3:50	41.05	3/21/11	4:43	41.07	3/21/11	5:36	41.02	3/21/11	6:29	41.04	3/21/11	7:22	41.09
3/21/11	3:51	41.05	3/21/11	4:44	41.07	3/21/11	5:37	41.02	3/21/11	6:30	41.04	3/21/11	7:23	41.09
3/21/11	3:52	41.05	3/21/11	4:45	41.07	3/21/11	5:38	41.02	3/21/11	6:31	41.04	3/21/11	7:24	41.09
3/21/11	3:53	41.05	3/21/11	4:46	41.07	3/21/11	5:39	41.02	3/21/11	6:32	41.04	3/21/11	7:25	41.09
3/21/11	3:54	41.05	3/21/11	4:47	41.07	3/21/11	5:40	41.02	3/21/11	6:33	41.04	3/21/11	7:26	41.09
3/21/11	3:55	41.05	3/21/11	4:48	41.07	3/21/11	5:41	41.02	3/21/11	6:34	41.04	3/21/11	7:27	41.09
3/21/11	3:56	41.05	3/21/11	4:49	41.07	3/21/11	5:42	40.99	3/21/11	6:35	41.04	3/21/11	7:28	41.09
3/21/11	3:57	41.05	3/21/11	4:50	41.07	3/21/11	5:43	40.99	3/21/11	6:36	41.04	3/21/11	7:29	41.09
3/21/11	3:58	41.09	3/21/11	4:51	41.07	3/21/11	5:44	40.99	3/21/11	6:37	41.07	3/21/11	7:30	41.09
3/21/11	3:59	41.05	3/21/11	4:52	41.07	3/21/11	5:45	40.99	3/21/11	6:38	41.07	3/21/11	7:31	41.09
3/21/11	4:00	41.04	3/21/11	4:53	41.07	3/21/11	5:46	40.99	3/21/11	6:39	41.07	3/21/11	7:32	41.09
3/21/11	4:01	41.07	3/21/11	4:54	41.07	3/21/11	5:47	40.99	3/21/11	6:40	41.07	3/21/11	7:33	41.09
3/21/11	4:02	41.04	3/21/11	4:55	41.07	3/21/11	5:48	40.99	3/21/11	6:41	41.07	3/21/11	7:34	41.09
3/21/11	4:03	41.04	3/21/11	4:56	41.04	3/21/11	5:49	40.99	3/21/11	6:42	41.07	3/21/11	7:35	41.09
3/21/11	4:04	41.07	3/21/11	4:57	41.07	3/21/11	5:50	40.99	3/21/11	6:43	41.07	3/21/11	7:36	41.09
3/21/11	4:05	41.07	3/21/11	4:58	41.07	3/21/11	5:51	40.99	3/21/11	6:44	41.07	3/21/11	7:37	41.09
3/21/11	4:06	41.07	3/21/11	4:59	41.07	3/21/11	5:52	40.99	3/21/11	6:45	41.07	3/21/11	7:38	41.09
3/21/11	4:07	41.07	3/21/11	5:00	41.09	3/21/11	5:53	40.99	3/21/11	6:46	41.07	3/21/11	7:39	41.09
3/21/11	4:08	41.07	3/21/11	5:01	41.05	3/21/11	5:54	40.99	3/21/11	6:47	41.07	3/21/11	7:40	41.09
3/21/11	4:09	41.07	3/21/11	5:02	41.09	3/21/11	5:55	40.96	3/21/11	6:48	41.07	3/21/11	7:41	41.09
3/21/11	4:10	41.07	3/21/11	5:03	41.05	3/21/11	5:56	40.99	3/21/11	6:49	41.07	3/21/11	7:42	41.09
3/21/11	4:11	41.07	3/21/11	5:04	41.05	3/21/11	5:57	40.96	3/21/11	6:50	41.07	3/21/11	7:43	41.09
3/21/11	4:12	41.07	3/21/11	5:05	41.05	3/21/11	5:58	40.96	3/21/11	6:51	41.07	3/21/11	7:44	41.09
3/21/11	4:13	41.07	3/21/11	5:06	41.05	3/21/11	5:59	40.99	3/21/11	6:52	41.07	3/21/11	7:45	41.06
3/21/11	4:14	41.07	3/21/11	5:07	41.05	3/21/11	6:00	40.97	3/21/11	6:53	41.07	3/21/11	7:46	41.09
3/21/11	4:15	41.07	3/21/11	5:08	41.09	3/21/11	6:01	40.97	3/21/11	6:54	41.07	3/21/11	7:47	41.09
3/21/11	4:16	41.07	3/21/11	5:09	41.05	3/21/11	6:02	41.01	3/21/11	6:55	41.07	3/21/11	7:48	41.09
3/21/11	4:17	41.07	3/21/11	5:10	41.05	3/21/11	6:03	40.97	3/21/11	6:56	41.07	3/21/11	7:49	41.09
3/21/11	4:18	41.07	3/21/11	5:11	41.09	3/21/11	6:04	41.01	3/21/11	6:57	41.07	3/21/11	7:50	41.06
3/21/11	4:19	41.07	3/21/11	5:12	41.05	3/21/11	6:05	40.97	3/21/11	6:58	41.07	3/21/11	7:51	41.06
3/21/11	4:20	41.07	3/21/11	5:13	41.05	3/21/11	6:06	40.97	3/21/11	6:59	41.07	3/21/11	7:52	41.06
3/21/11	4:21	41.07	3/21/11	5:14	41.05	3/21/11	6:07	40.97	3/21/11	7:00	41.09	3/21/11	7:53	41.06
3/21/11	4:22	41.07	3/21/11	5:15	41.05	3/21/11	6:08	41.01	3/21/11	7:01	41.09	3/21/11	7:54	41.09
3/21/11	4:23	41.07	3/21/11	5:16	41.05	3/21/11	6:09	41.01	3/21/11	7:02	41.09	3/21/11	7:55	41.09
3/21/11	4:24	41.07	3/21/11	5:17	41.05	3/21/11	6:10	41.01	3/21/11	7:03	41.09	3/21/11	7:56	41.06
3/21/11	4:25	41.07	3/21/11	5:18	41.05	3/21/11	6:11	41.01	3/21/11	7:04	41.09	3/21/11	7:57	41.06
3/21/11	4:26	41.07	3/21/11	5:19	41.05	3/21/11	6:12	41.01	3/21/11	7:05	41.09	3/21/11	7:58	41.06
3/21/11	4:27	41.07	3/21/11	5:20	41.05	3/21/11	6:13	41.01	3/21/11	7:06	41.09	3/21/11	7:59	41.06
3/21/11	4:28	41.07	3/21/11	5:21	41.05	3/21/11	6:14	41.01	3/21/11	7:07	41.09	3/21/11	8:00	41.07
3/21/11	4:29	41.07	3/21/11	5:22	41.05	3/21/11	6:15	41.01	3/21/11	7:08	41.09	3/21/11	8:01	41.10
3/21/11	4:30	41.07	3/21/11	5:23	41.05	3/21/11	6:16	41.01	3/21/11	7:09	41.09	3/21/11	8:02	41.10
3/21/11	4:31	41.07	3/21/11	5:24	41.05	3/21/11	6:17	41.04	3/21/11	7:10	41.09	3/21/11	8:03	41.07

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	8:04	41.07	3/21/11	8:57	41.10	3/21/11	9:50	41.19	3/21/11	10:43	41.24	3/21/11	11:36	41.25
3/21/11	8:05	41.10	3/21/11	8:58	41.10	3/21/11	9:51	41.19	3/21/11	10:44	41.24	3/21/11	11:37	41.25
3/21/11	8:06	41.10	3/21/11	8:59	41.10	3/21/11	9:52	41.19	3/21/11	10:45	41.24	3/21/11	11:38	41.22
3/21/11	8:07	41.07	3/21/11	9:00	41.12	3/21/11	9:53	41.19	3/21/11	10:46	41.24	3/21/11	11:39	41.25
3/21/11	8:08	41.10	3/21/11	9:01	41.12	3/21/11	9:54	41.19	3/21/11	10:47	41.24	3/21/11	11:40	41.25
3/21/11	8:09	41.07	3/21/11	9:02	41.12	3/21/11	9:55	41.19	3/21/11	10:48	41.24	3/21/11	11:41	41.25
3/21/11	8:10	41.07	3/21/11	9:03	41.12	3/21/11	9:56	41.19	3/21/11	10:49	41.24	3/21/11	11:42	41.25
3/21/11	8:11	41.10	3/21/11	9:04	41.15	3/21/11	9:57	41.19	3/21/11	10:50	41.24	3/21/11	11:43	41.25
3/21/11	8:12	41.07	3/21/11	9:05	41.15	3/21/11	9:58	41.19	3/21/11	10:51	41.24	3/21/11	11:44	41.25
3/21/11	8:13	41.07	3/21/11	9:06	41.12	3/21/11	9:59	41.22	3/21/11	10:52	41.24	3/21/11	11:45	41.25
3/21/11	8:14	41.10	3/21/11	9:07	41.12	3/21/11	10:00	41.20	3/21/11	10:53	41.24	3/21/11	11:46	41.25
3/21/11	8:15	41.10	3/21/11	9:08	41.15	3/21/11	10:01	41.24	3/21/11	10:54	41.24	3/21/11	11:47	41.25
3/21/11	8:16	41.10	3/21/11	9:09	41.15	3/21/11	10:02	41.24	3/21/11	10:55	41.24	3/21/11	11:48	41.25
3/21/11	8:17	41.07	3/21/11	9:10	41.15	3/21/11	10:03	41.20	3/21/11	10:56	41.24	3/21/11	11:49	41.25
3/21/11	8:18	41.07	3/21/11	9:11	41.15	3/21/11	10:04	41.20	3/21/11	10:57	41.24	3/21/11	11:50	41.25
3/21/11	8:19	41.07	3/21/11	9:12	41.15	3/21/11	10:05	41.20	3/21/11	10:58	41.24	3/21/11	11:51	41.25
3/21/11	8:20	41.07	3/21/11	9:13	41.15	3/21/11	10:06	41.20	3/21/11	10:59	41.24	3/21/11	11:52	41.25
3/21/11	8:21	41.10	3/21/11	9:14	41.15	3/21/11	10:07	41.20	3/21/11	11:00	41.22	3/21/11	11:53	41.25
3/21/11	8:22	41.10	3/21/11	9:15	41.15	3/21/11	10:08	41.20	3/21/11	11:01	41.22	3/21/11	11:54	41.25
3/21/11	8:23	41.10	3/21/11	9:16	41.15	3/21/11	10:09	41.20	3/21/11	11:02	41.22	3/21/11	11:55	41.25
3/21/11	8:24	41.10	3/21/11	9:17	41.15	3/21/11	10:10	41.20	3/21/11	11:03	41.25	3/21/11	11:56	41.25
3/21/11	8:25	41.07	3/21/11	9:18	41.15	3/21/11	10:11	41.20	3/21/11	11:04	41.22	3/21/11	11:57	41.25
3/21/11	8:26	41.10	3/21/11	9:19	41.15	3/21/11	10:12	41.24	3/21/11	11:05	41.22	3/21/11	11:58	41.25
3/21/11	8:27	41.07	3/21/11	9:20	41.15	3/21/11	10:13	41.24	3/21/11	11:06	41.22	3/21/11	11:59	41.25
3/21/11	8:28	41.10	3/21/11	9:21	41.15	3/21/11	10:14	41.20	3/21/11	11:07	41.25	3/21/11	12:00	41.24
3/21/11	8:29	41.10	3/21/11	9:22	41.15	3/21/11	10:15	41.20	3/21/11	11:08	41.25	3/21/11	12:01	41.24
3/21/11	8:30	41.10	3/21/11	9:23	41.15	3/21/11	10:16	41.20	3/21/11	11:09	41.22	3/21/11	12:02	41.24
3/21/11	8:31	41.07	3/21/11	9:24	41.15	3/21/11	10:17	41.24	3/21/11	11:10	41.22	3/21/11	12:03	41.24
3/21/11	8:32	41.07	3/21/11	9:25	41.19	3/21/11	10:18	41.20	3/21/11	11:11	41.22	3/21/11	12:04	41.24
3/21/11	8:33	41.07	3/21/11	9:26	41.15	3/21/11	10:19	41.20	3/21/11	11:12	41.22	3/21/11	12:05	41.24
3/21/11	8:34	41.07	3/21/11	9:27	41.15	3/21/11	10:20	41.24	3/21/11	11:13	41.22	3/21/11	12:06	41.24
3/21/11	8:35	41.07	3/21/11	9:28	41.15	3/21/11	10:21	41.20	3/21/11	11:14	41.25	3/21/11	12:07	41.24
3/21/11	8:36	41.07	3/21/11	9:29	41.15	3/21/11	10:22	41.20	3/21/11	11:15	41.22	3/21/11	12:08	41.24
3/21/11	8:37	41.07	3/21/11	9:30	41.19	3/21/11	10:23	41.24	3/21/11	11:16	41.25	3/21/11	12:09	41.24
3/21/11	8:38	41.10	3/21/11	9:31	41.19	3/21/11	10:24	41.20	3/21/11	11:17	41.22	3/21/11	12:10	41.24
3/21/11	8:39	41.07	3/21/11	9:32	41.15	3/21/11	10:25	41.24	3/21/11	11:18	41.25	3/21/11	12:11	41.24
3/21/11	8:40	41.07	3/21/11	9:33	41.19	3/21/11	10:26	41.20	3/21/11	11:19	41.25	3/21/11	12:12	41.24
3/21/11	8:41	41.07	3/21/11	9:34	41.19	3/21/11	10:27	41.24	3/21/11	11:20	41.25	3/21/11	12:13	41.27
3/21/11	8:42	41.07	3/21/11	9:35	41.19	3/21/11	10:28	41.24	3/21/11	11:21	41.25	3/21/11	12:14	41.27
3/21/11	8:43	41.07	3/21/11	9:36	41.19	3/21/11	10:29	41.20	3/21/11	11:22	41.25	3/21/11	12:15	41.24
3/21/11	8:44	41.10	3/21/11	9:37	41.19	3/21/11	10:30	41.24	3/21/11	11:23	41.25	3/21/11	12:16	41.27
3/21/11	8:45	41.07	3/21/11	9:38	41.19	3/21/11	10:31	41.20	3/21/11	11:24	41.25	3/21/11	12:17	41.27
3/21/11	8:46	41.10	3/21/11	9:39	41.19	3/21/11	10:32	41.24	3/21/11	11:25	41.25	3/21/11	12:18	41.24
3/21/11	8:47	41.07	3/21/11	9:40	41.19	3/21/11	10:33	41.24	3/21/11	11:26	41.25	3/21/11	12:19	41.24
3/21/11	8:48	41.10	3/21/11	9:41	41.19	3/21/11	10:34	41.24	3/21/11	11:27	41.25	3/21/11	12:20	41.27
3/21/11	8:49	41.07	3/21/11	9:42	41.19	3/21/11	10:35	41.24	3/21/11	11:28	41.25	3/21/11	12:21	41.24
3/21/11	8:50	41.07	3/21/11	9:43	41.19	3/21/11	10:36	41.24	3/21/11	11:29	41.25	3/21/11	12:22	41.27
3/21/11	8:51	41.07	3/21/11	9:44	41.19	3/21/11	10:37	41.24	3/21/11	11:30	41.25	3/21/11	12:23	41.27
3/21/11	8:52	41.07	3/21/11	9:45	41.19	3/21/11	10:38	41.24	3/21/11	11:31	41.25	3/21/11	12:24	41.27
3/21/11	8:53	41.07	3/21/11	9:46	41.19	3/21/11	10:39	41.24	3/21/11	11:32	41.25	3/21/11	12:25	41.27
3/21/11	8:54	41.10	3/21/11	9:47	41.19	3/21/11	10:40	41.24	3/21/11	11:33	41.25	3/21/11	12:26	41.27
3/21/11	8:55	41.07	3/21/11	9:48	41.19	3/21/11	10:41	41.24	3/21/11	11:34	41.25	3/21/11	12:27	41.27
3/21/11	8:56	41.10	3/21/11	9:49	41.19	3/21/11	10:42	41.24	3/21/11	11:35	41.25	3/21/11	12:28	41.24

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	12:29	41.27	3/21/11	13:22	41.29	3/21/11	14:15	41.24	3/21/11	15:08	41.20	3/21/11	16:01	38.00
3/21/11	12:30	41.27	3/21/11	13:23	41.25	3/21/11	14:16	41.24	3/21/11	15:09	41.20	3/21/11	16:02	37.84
3/21/11	12:31	41.24	3/21/11	13:24	41.25	3/21/11	14:17	41.24	3/21/11	15:10	41.24	3/21/11	16:03	37.64
3/21/11	12:32	41.27	3/21/11	13:25	41.29	3/21/11	14:18	41.27	3/21/11	15:11	41.24	3/21/11	16:04	37.48
3/21/11	12:33	41.27	3/21/11	13:26	41.25	3/21/11	14:19	41.24	3/21/11	15:12	41.20	3/21/11	16:05	37.31
3/21/11	12:34	41.27	3/21/11	13:27	41.29	3/21/11	14:20	41.24	3/21/11	15:13	41.24	3/21/11	16:06	37.15
3/21/11	12:35	41.27	3/21/11	13:28	41.25	3/21/11	14:21	41.27	3/21/11	15:14	41.20	3/21/11	16:07	36.98
3/21/11	12:36	41.27	3/21/11	13:29	41.29	3/21/11	14:22	41.24	3/21/11	15:15	41.24	3/21/11	16:08	36.82
3/21/11	12:37	41.27	3/21/11	13:30	41.25	3/21/11	14:23	41.24	3/21/11	15:16	41.24	3/21/11	16:09	36.62
3/21/11	12:38	41.27	3/21/11	13:31	41.25	3/21/11	14:24	41.24	3/21/11	15:17	41.24	3/21/11	16:10	36.49
3/21/11	12:39	41.27	3/21/11	13:32	41.25	3/21/11	14:25	41.24	3/21/11	15:18	41.20	3/21/11	16:11	36.32
3/21/11	12:40	41.27	3/21/11	13:33	41.25	3/21/11	14:26	41.27	3/21/11	15:19	41.24	3/21/11	16:12	36.16
3/21/11	12:41	41.27	3/21/11	13:34	41.29	3/21/11	14:27	41.24	3/21/11	15:20	41.24	3/21/11	16:13	36.03
3/21/11	12:42	41.27	3/21/11	13:35	41.25	3/21/11	14:28	41.24	3/21/11	15:21	41.24	3/21/11	16:14	35.86
3/21/11	12:43	41.27	3/21/11	13:36	41.29	3/21/11	14:29	41.24	3/21/11	15:22	41.24	3/21/11	16:15	35.73
3/21/11	12:44	41.27	3/21/11	13:37	41.25	3/21/11	14:30	41.24	3/21/11	15:23	41.24	3/21/11	16:16	35.60
3/21/11	12:45	41.27	3/21/11	13:38	41.25	3/21/11	14:31	41.24	3/21/11	15:24	41.24	3/21/11	16:17	35.43
3/21/11	12:46	41.27	3/21/11	13:39	41.25	3/21/11	14:32	41.24	3/21/11	15:25	41.24	3/21/11	16:18	35.30
3/21/11	12:47	41.27	3/21/11	13:40	41.25	3/21/11	14:33	41.24	3/21/11	15:26	41.24	3/21/11	16:19	35.17
3/21/11	12:48	41.27	3/21/11	13:41	41.25	3/21/11	14:34	41.24	3/21/11	15:27	41.24	3/21/11	16:20	35.04
3/21/11	12:49	41.27	3/21/11	13:42	41.25	3/21/11	14:35	41.24	3/21/11	15:28	41.24	3/21/11	16:21	34.91
3/21/11	12:50	41.27	3/21/11	13:43	41.25	3/21/11	14:36	41.27	3/21/11	15:29	41.24	3/21/11	16:22	34.81
3/21/11	12:51	41.27	3/21/11	13:44	41.25	3/21/11	14:37	41.24	3/21/11	15:30	41.24	3/21/11	16:23	34.68
3/21/11	12:52	41.27	3/21/11	13:45	41.25	3/21/11	14:38	41.24	3/21/11	15:31	41.24	3/21/11	16:24	34.58
3/21/11	12:53	41.27	3/21/11	13:46	41.25	3/21/11	14:39	41.27	3/21/11	15:32	41.24	3/21/11	16:25	34.44
3/21/11	12:54	41.27	3/21/11	13:47	41.25	3/21/11	14:40	41.24	3/21/11	15:33	41.24	3/21/11	16:26	34.31
3/21/11	12:55	41.27	3/21/11	13:48	41.25	3/21/11	14:41	41.24	3/21/11	15:34	41.24	3/21/11	16:27	34.21
3/21/11	12:56	41.27	3/21/11	13:49	41.25	3/21/11	14:42	41.24	3/21/11	15:35	41.27	3/21/11	16:28	34.11
3/21/11	12:57	41.27	3/21/11	13:50	41.29	3/21/11	14:43	41.24	3/21/11	15:36	41.24	3/21/11	16:29	34.02
3/21/11	12:58	41.27	3/21/11	13:51	41.29	3/21/11	14:44	41.24	3/21/11	15:37	41.24	3/21/11	16:30	33.92
3/21/11	12:59	41.27	3/21/11	13:52	41.29	3/21/11	14:45	41.24	3/21/11	15:38	41.24	3/21/11	16:31	33.82
3/21/11	13:00	41.25	3/21/11	13:53	41.29	3/21/11	14:46	41.24	3/21/11	15:39	41.20	3/21/11	16:32	33.72
3/21/11	13:01	41.25	3/21/11	13:54	41.29	3/21/11	14:47	41.24	3/21/11	15:40	41.20	3/21/11	16:33	33.62
3/21/11	13:02	41.25	3/21/11	13:55	41.29	3/21/11	14:48	41.24	3/21/11	15:41	41.14	3/21/11	16:34	33.52
3/21/11	13:03	41.29	3/21/11	13:56	41.29	3/21/11	14:49	41.24	3/21/11	15:42	41.07	3/21/11	16:35	33.42
3/21/11	13:04	41.25	3/21/11	13:57	41.25	3/21/11	14:50	41.24	3/21/11	15:43	41.01	3/21/11	16:36	33.32
3/21/11	13:05	41.25	3/21/11	13:58	41.29	3/21/11	14:51	41.24	3/21/11	15:44	40.91	3/21/11	16:37	33.26
3/21/11	13:06	41.25	3/21/11	13:59	41.25	3/21/11	14:52	41.24	3/21/11	15:45	40.81	3/21/11	16:38	33.16
3/21/11	13:07	41.29	3/21/11	14:00	41.24	3/21/11	14:53	41.24	3/21/11	15:46	40.68	3/21/11	16:39	33.09
3/21/11	13:08	41.25	3/21/11	14:01	41.27	3/21/11	14:54	41.24	3/21/11	15:47	40.54	3/21/11	16:40	32.99
3/21/11	13:09	41.29	3/21/11	14:02	41.24	3/21/11	14:55	41.24	3/21/11	15:48	40.38	3/21/11	16:41	32.93
3/21/11	13:10	41.29	3/21/11	14:03	41.27	3/21/11	14:56	41.24	3/21/11	15:49	40.25	3/21/11	16:42	32.83
3/21/11	13:11	41.25	3/21/11	14:04	41.24	3/21/11	14:57	41.27	3/21/11	15:50	40.08	3/21/11	16:43	32.76
3/21/11	13:12	41.29	3/21/11	14:05	41.24	3/21/11	14:58	41.27	3/21/11	15:51	39.92	3/21/11	16:44	32.70
3/21/11	13:13	41.29	3/21/11	14:06	41.24	3/21/11	14:59	41.24	3/21/11	15:52	39.75	3/21/11	16:45	32.60
3/21/11	13:14	41.25	3/21/11	14:07	41.24	3/21/11	15:00	41.24	3/21/11	15:53	39.55	3/21/11	16:46	32.53
3/21/11	13:15	41.25	3/21/11	14:08	41.27	3/21/11	15:01	41.24	3/21/11	15:54	39.36	3/21/11	16:47	32.47
3/21/11	13:16	41.29	3/21/11	14:09	41.27	3/21/11	15:02	41.24	3/21/11	15:55	39.16	3/21/11	16:48	32.40
3/21/11	13:17	41.29	3/21/11	14:10	41.24	3/21/11	15:03	41.24	3/21/11	15:56	38.99	3/21/11	16:49	32.30
3/21/11	13:18	41.25	3/21/11	14:11	41.24	3/21/11	15:04	41.24	3/21/11	15:57	38.83	3/21/11	16:50	32.27
3/21/11	13:19	41.29	3/21/11	14:12	41.24	3/21/11	15:05	41.20	3/21/11	15:58	38.63	3/21/11	16:51	32.20
3/21/11	13:20	41.25	3/21/11	14:13	41.24	3/21/11	15:06	41.24	3/21/11	15:59	38.43	3/21/11	16:52	32.10
3/21/11	13:21	41.29	3/21/11	14:14	41.24	3/21/11	15:07	41.24	3/21/11	16:00	38.20	3/21/11	16:53	32.07

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	16:54	32.00	3/21/11	17:47	29.58	3/21/11	18:40	28.18	3/21/11	19:33	27.24	3/21/11	20:26	26.58
3/21/11	16:55	31.94	3/21/11	17:48	29.55	3/21/11	18:41	28.15	3/21/11	19:34	27.24	3/21/11	20:27	26.55
3/21/11	16:56	31.87	3/21/11	17:49	29.52	3/21/11	18:42	28.15	3/21/11	19:35	27.21	3/21/11	20:28	26.55
3/21/11	16:57	31.81	3/21/11	17:50	29.48	3/21/11	18:43	28.11	3/21/11	19:36	27.18	3/21/11	20:29	26.55
3/21/11	16:58	31.74	3/21/11	17:51	29.45	3/21/11	18:44	28.08	3/21/11	19:37	27.18	3/21/11	20:30	26.55
3/21/11	16:59	31.68	3/21/11	17:52	29.42	3/21/11	18:45	28.08	3/21/11	19:38	27.18	3/21/11	20:31	26.52
3/21/11	17:00	31.63	3/21/11	17:53	29.38	3/21/11	18:46	28.05	3/21/11	19:39	27.14	3/21/11	20:32	26.52
3/21/11	17:01	31.56	3/21/11	17:54	29.35	3/21/11	18:47	28.02	3/21/11	19:40	27.11	3/21/11	20:33	26.52
3/21/11	17:02	31.49	3/21/11	17:55	29.32	3/21/11	18:48	28.02	3/21/11	19:41	27.11	3/21/11	20:34	26.48
3/21/11	17:03	31.46	3/21/11	17:56	29.29	3/21/11	18:49	27.98	3/21/11	19:42	27.11	3/21/11	20:35	26.48
3/21/11	17:04	31.40	3/21/11	17:57	29.29	3/21/11	18:50	27.95	3/21/11	19:43	27.08	3/21/11	20:36	26.48
3/21/11	17:05	31.33	3/21/11	17:58	29.25	3/21/11	18:51	27.95	3/21/11	19:44	27.08	3/21/11	20:37	26.45
3/21/11	17:06	31.26	3/21/11	17:59	29.22	3/21/11	18:52	27.92	3/21/11	19:45	27.04	3/21/11	20:38	26.45
3/21/11	17:07	31.23	3/21/11	18:00	29.17	3/21/11	18:53	27.92	3/21/11	19:46	27.04	3/21/11	20:39	26.45
3/21/11	17:08	31.16	3/21/11	18:01	29.14	3/21/11	18:54	27.88	3/21/11	19:47	27.04	3/21/11	20:40	26.42
3/21/11	17:09	31.13	3/21/11	18:02	29.10	3/21/11	18:55	27.88	3/21/11	19:48	27.04	3/21/11	20:41	26.42
3/21/11	17:10	31.10	3/21/11	18:03	29.07	3/21/11	18:56	27.85	3/21/11	19:49	27.01	3/21/11	20:42	26.38
3/21/11	17:11	31.00	3/21/11	18:04	29.04	3/21/11	18:57	27.82	3/21/11	19:50	26.98	3/21/11	20:43	26.38
3/21/11	17:12	30.97	3/21/11	18:05	29.00	3/21/11	18:58	27.82	3/21/11	19:51	26.98	3/21/11	20:44	26.38
3/21/11	17:13	30.93	3/21/11	18:06	29.00	3/21/11	18:59	27.82	3/21/11	19:52	26.98	3/21/11	20:45	26.35
3/21/11	17:14	30.87	3/21/11	18:07	28.97	3/21/11	19:00	27.80	3/21/11	19:53	26.95	3/21/11	20:46	26.35
3/21/11	17:15	30.84	3/21/11	18:08	28.94	3/21/11	19:01	27.77	3/21/11	19:54	26.95	3/21/11	20:47	26.35
3/21/11	17:16	30.80	3/21/11	18:09	28.91	3/21/11	19:02	27.77	3/21/11	19:55	26.91	3/21/11	20:48	26.32
3/21/11	17:17	30.74	3/21/11	18:10	28.87	3/21/11	19:03	27.74	3/21/11	19:56	26.91	3/21/11	20:49	26.32
3/21/11	17:18	30.70	3/21/11	18:11	28.87	3/21/11	19:04	27.70	3/21/11	19:57	26.91	3/21/11	20:50	26.32
3/21/11	17:19	30.64	3/21/11	18:12	28.84	3/21/11	19:05	27.70	3/21/11	19:58	26.88	3/21/11	20:51	26.29
3/21/11	17:20	30.60	3/21/11	18:13	28.81	3/21/11	19:06	27.67	3/21/11	19:59	26.88	3/21/11	20:52	26.29
3/21/11	17:21	30.54	3/21/11	18:14	28.77	3/21/11	19:07	27.67	3/21/11	20:00	26.88	3/21/11	20:53	26.29
3/21/11	17:22	30.51	3/21/11	18:15	28.74	3/21/11	19:08	27.67	3/21/11	20:01	26.88	3/21/11	20:54	26.29
3/21/11	17:23	30.47	3/21/11	18:16	28.71	3/21/11	19:09	27.64	3/21/11	20:02	26.85	3/21/11	20:55	26.25
3/21/11	17:24	30.44	3/21/11	18:17	28.71	3/21/11	19:10	27.60	3/21/11	20:03	26.85	3/21/11	20:56	26.25
3/21/11	17:25	30.41	3/21/11	18:18	28.68	3/21/11	19:11	27.60	3/21/11	20:04	26.85	3/21/11	20:57	26.25
3/21/11	17:26	30.34	3/21/11	18:19	28.64	3/21/11	19:12	27.57	3/21/11	20:05	26.81	3/21/11	20:58	26.25
3/21/11	17:27	30.31	3/21/11	18:20	28.61	3/21/11	19:13	27.57	3/21/11	20:06	26.81	3/21/11	20:59	26.22
3/21/11	17:28	30.27	3/21/11	18:21	28.61	3/21/11	19:14	27.54	3/21/11	20:07	26.81	3/21/11	21:00	26.24
3/21/11	17:29	30.21	3/21/11	18:22	28.58	3/21/11	19:15	27.54	3/21/11	20:08	26.81	3/21/11	21:01	26.24
3/21/11	17:30	30.21	3/21/11	18:23	28.54	3/21/11	19:16	27.51	3/21/11	20:09	26.78	3/21/11	21:02	26.20
3/21/11	17:31	30.14	3/21/11	18:24	28.54	3/21/11	19:17	27.51	3/21/11	20:10	26.75	3/21/11	21:03	26.20
3/21/11	17:32	30.11	3/21/11	18:25	28.51	3/21/11	19:18	27.47	3/21/11	20:11	26.75	3/21/11	21:04	26.20
3/21/11	17:33	30.08	3/21/11	18:26	28.48	3/21/11	19:19	27.47	3/21/11	20:12	26.75	3/21/11	21:05	26.17
3/21/11	17:34	30.04	3/21/11	18:27	28.48	3/21/11	19:20	27.44	3/21/11	20:13	26.71	3/21/11	21:06	26.17
3/21/11	17:35	30.01	3/21/11	18:28	28.44	3/21/11	19:21	27.44	3/21/11	20:14	26.71	3/21/11	21:07	26.17
3/21/11	17:36	29.95	3/21/11	18:29	28.41	3/21/11	19:22	27.41	3/21/11	20:15	26.71	3/21/11	21:08	26.17
3/21/11	17:37	29.91	3/21/11	18:30	28.38	3/21/11	19:23	27.41	3/21/11	20:16	26.68	3/21/11	21:09	26.14
3/21/11	17:38	29.88	3/21/11	18:31	28.35	3/21/11	19:24	27.37	3/21/11	20:17	26.68	3/21/11	21:10	26.14
3/21/11	17:39	29.85	3/21/11	18:32	28.35	3/21/11	19:25	27.37	3/21/11	20:18	26.68	3/21/11	21:11	26.14
3/21/11	17:40	29.81	3/21/11	18:33	28.31	3/21/11	19:26	27.37	3/21/11	20:19	26.65	3/21/11	21:12	26.10
3/21/11	17:41	29.78	3/21/11	18:34	28.31	3/21/11	19:27	27.34	3/21/11	20:20	26.65	3/21/11	21:13	26.10
3/21/11	17:42	29.75	3/21/11	18:35	28.28	3/21/11	19:28	27.31	3/21/11	20:21	26.62	3/21/11	21:14	26.10
3/21/11	17:43	29.71	3/21/11	18:36	28.25	3/21/11	19:29	27.31	3/21/11	20:22	26.62	3/21/11	21:15	26.10
3/21/11	17:44	29.68	3/21/11	18:37	28.25	3/21/11	19:30	27.27	3/21/11	20:23	26.62	3/21/11	21:16	26.07
3/21/11	17:45	29.65	3/21/11	18:38	28.21	3/21/11	19:31	27.27	3/21/11	20:24	26.62	3/21/11	21:17	26.07
3/21/11	17:46	29.62	3/21/11	18:39	28.21	3/21/11	19:32	27.24	3/21/11	20:25	26.58	3/21/11	21:18	26.07

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	21:19	26.04	3/21/11	22:12	25.66	3/21/11	23:05	25.28	3/21/11	23:58	24.98	3/22/11	4:15	23.99
3/21/11	21:20	26.04	3/21/11	22:13	25.63	3/21/11	23:06	25.28	3/21/11	23:59	24.98	3/22/11	4:20	23.96
3/21/11	21:21	26.04	3/21/11	22:14	25.63	3/21/11	23:07	25.25	3/22/11	0:00	24.97	3/22/11	4:25	23.96
3/21/11	21:22	26.04	3/21/11	22:15	25.63	3/21/11	23:08	25.25	3/22/11	0:05	24.93	3/22/11	4:30	23.96
3/21/11	21:23	26.04	3/21/11	22:16	25.63	3/21/11	23:09	25.25	3/22/11	0:10	24.93	3/22/11	4:35	23.93
3/21/11	21:24	26.01	3/21/11	22:17	25.59	3/21/11	23:10	25.25	3/22/11	0:15	24.90	3/22/11	4:40	23.90
3/21/11	21:25	26.01	3/21/11	22:18	25.59	3/21/11	23:11	25.25	3/22/11	0:20	24.87	3/22/11	4:45	23.90
3/21/11	21:26	26.01	3/21/11	22:19	25.59	3/21/11	23:12	25.25	3/22/11	0:25	24.84	3/22/11	4:50	23.86
3/21/11	21:27	26.01	3/21/11	22:20	25.59	3/21/11	23:13	25.25	3/22/11	0:30	24.84	3/22/11	4:55	23.86
3/21/11	21:28	25.97	3/21/11	22:21	25.59	3/21/11	23:14	25.25	3/22/11	0:35	24.80	3/22/11	5:00	23.85
3/21/11	21:29	25.97	3/21/11	22:22	25.56	3/21/11	23:15	25.21	3/22/11	0:40	24.77	3/22/11	5:05	23.85
3/21/11	21:30	25.97	3/21/11	22:23	25.56	3/21/11	23:16	25.25	3/22/11	0:45	24.77	3/22/11	5:10	23.85
3/21/11	21:31	25.94	3/21/11	22:24	25.56	3/21/11	23:17	25.21	3/22/11	0:50	24.74	3/22/11	5:15	23.81
3/21/11	21:32	25.94	3/21/11	22:25	25.53	3/21/11	23:18	25.21	3/22/11	0:55	24.70	3/22/11	5:20	23.81
3/21/11	21:33	25.91	3/21/11	22:26	25.53	3/21/11	23:19	25.18	3/22/11	1:00	24.70	3/22/11	5:25	23.81
3/21/11	21:34	25.91	3/21/11	22:27	25.53	3/21/11	23:20	25.21	3/22/11	1:05	24.67	3/22/11	5:30	23.78
3/21/11	21:35	25.91	3/21/11	22:28	25.53	3/21/11	23:21	25.18	3/22/11	1:10	24.64	3/22/11	5:35	23.75
3/21/11	21:36	25.91	3/21/11	22:29	25.53	3/21/11	23:22	25.18	3/22/11	1:15	24.64	3/22/11	5:40	23.75
3/21/11	21:37	25.91	3/21/11	22:30	25.53	3/21/11	23:23	25.18	3/22/11	1:20	24.60	3/22/11	5:45	23.71
3/21/11	21:38	25.87	3/21/11	22:31	25.49	3/21/11	23:24	25.18	3/22/11	1:25	24.57	3/22/11	5:50	23.71
3/21/11	21:39	25.87	3/21/11	22:32	25.49	3/21/11	23:25	25.18	3/22/11	1:30	24.57	3/22/11	5:55	23.71
3/21/11	21:40	25.87	3/21/11	22:33	25.49	3/21/11	23:26	25.18	3/22/11	1:35	24.54	3/22/11	6:00	23.70
3/21/11	21:41	25.84	3/21/11	22:34	25.49	3/21/11	23:27	25.15	3/22/11	1:40	24.54	3/22/11	6:05	23.70
3/21/11	21:42	25.84	3/21/11	22:35	25.49	3/21/11	23:28	25.15	3/22/11	1:45	24.51	3/22/11	6:10	23.70
3/21/11	21:43	25.84	3/21/11	22:36	25.46	3/21/11	23:29	25.15	3/22/11	1:50	24.51	3/22/11	6:15	23.66
3/21/11	21:44	25.84	3/21/11	22:37	25.46	3/21/11	23:30	25.15	3/22/11	1:55	24.47	3/22/11	6:20	23.66
3/21/11	21:45	25.84	3/21/11	22:38	25.46	3/21/11	23:31	25.11	3/22/11	2:00	24.42	3/22/11	6:25	23.66
3/21/11	21:46	25.84	3/21/11	22:39	25.46	3/21/11	23:32	25.11	3/22/11	2:05	24.42	3/22/11	6:30	23.63
3/21/11	21:47	25.81	3/21/11	22:40	25.46	3/21/11	23:33	25.11	3/22/11	2:10	24.39	3/22/11	6:35	23.60
3/21/11	21:48	25.81	3/21/11	22:41	25.46	3/21/11	23:34	25.11	3/22/11	2:15	24.39	3/22/11	6:40	23.60
3/21/11	21:49	25.81	3/21/11	22:42	25.43	3/21/11	23:35	25.11	3/22/11	2:20	24.36	3/22/11	6:45	23.60
3/21/11	21:50	25.77	3/21/11	22:43	25.43	3/21/11	23:36	25.11	3/22/11	2:25	24.36	3/22/11	6:50	23.60
3/21/11	21:51	25.77	3/21/11	22:44	25.43	3/21/11	23:37	25.11	3/22/11	2:30	24.32	3/22/11	6:55	23.57
3/21/11	21:52	25.77	3/21/11	22:45	25.43	3/21/11	23:38	25.11	3/22/11	2:35	24.32	3/22/11	7:00	23.60
3/21/11	21:53	25.77	3/21/11	22:46	25.43	3/21/11	23:39	25.11	3/22/11	2:40	24.29	3/22/11	7:05	23.57
3/21/11	21:54	25.77	3/21/11	22:47	25.43	3/21/11	23:40	25.08	3/22/11	2:45	24.29	3/22/11	7:10	23.57
3/21/11	21:55	25.74	3/21/11	22:48	25.40	3/21/11	23:41	25.08	3/22/11	2:50	24.26	3/22/11	7:15	23.57
3/21/11	21:56	25.74	3/21/11	22:49	25.40	3/21/11	23:42	25.08	3/22/11	2:55	24.22	3/22/11	7:20	23.53
3/21/11	21:57	25.74	3/21/11	22:50	25.40	3/21/11	23:43	25.08	3/22/11	3:00	24.22	3/22/11	7:25	23.50
3/21/11	21:58	25.71	3/21/11	22:51	25.40	3/21/11	23:44	25.05	3/22/11	3:05	24.19	3/22/11	7:30	23.50
3/21/11	21:59	25.71	3/21/11	22:52	25.40	3/21/11	23:45	25.05	3/22/11	3:10	24.19	3/22/11	7:35	23.50
3/21/11	22:00	25.73	3/21/11	22:53	25.40	3/21/11	23:46	25.05	3/22/11	3:15	24.16	3/22/11	7:40	23.50
3/21/11	22:01	25.73	3/21/11	22:54	25.36	3/21/11	23:47	25.05	3/22/11	3:20	24.16	3/22/11	7:45	23.50
3/21/11	22:02	25.69	3/21/11	22:55	25.36	3/21/11	23:48	25.05	3/22/11	3:25	24.16	3/22/11	7:50	23.47
3/21/11	22:03	25.69	3/21/11	22:56	25.36	3/21/11	23:49	25.05	3/22/11	3:30	24.13	3/22/11	7:55	23.47
3/21/11	22:04	25.69	3/21/11	22:57	25.36	3/21/11	23:50	25.05	3/22/11	3:35	24.13	3/22/11	8:00	23.45
3/21/11	22:05	25.66	3/21/11	22:58	25.33	3/21/11	23:51	25.02	3/22/11	3:40	24.09	3/22/11	8:05	23.45
3/21/11	22:06	25.69	3/21/11	22:59	25.33	3/21/11	23:52	25.05	3/22/11	3:45	24.09	3/22/11	8:10	23.45
3/21/11	22:07	25.66	3/21/11	23:00	25.31	3/21/11	23:53	25.02	3/22/11	3:50	24.06	3/22/11	8:15	23.45
3/21/11	22:08	25.66	3/21/11	23:01	25.31	3/21/11	23:54	25.02	3/22/11	3:55	24.03	3/22/11	8:20	23.42
3/21/11	22:09	25.66	3/21/11	23:02	25.28	3/21/11	23:55	25.02	3/22/11	4:00	24.03	3/22/11	8:25	23.42
3/21/11	22:10	25.66	3/21/11	23:03	25.31	3/21/11	23:56	24.98	3/22/11	4:05	24.03	3/22/11	8:30	23.38
3/21/11	22:11	25.66	3/21/11	23:04	25.28	3/21/11	23:57	24.98	3/22/11	4:10	23.99	3/22/11	8:35	23.38

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/22/11	8:40	23.38	3/22/11	13:05	23.02	3/22/11	17:30	22.71	3/22/11	21:55	22.49	3/23/11	2:20	22.48
3/22/11	8:45	23.38	3/22/11	13:10	23.02	3/22/11	17:35	22.68	3/22/11	22:00	22.53	3/23/11	2:25	22.48
3/22/11	8:50	23.38	3/22/11	13:15	23.02	3/22/11	17:40	22.68	3/22/11	22:05	22.53	3/23/11	2:30	22.48
3/22/11	8:55	23.35	3/22/11	13:20	23.02	3/22/11	17:45	22.71	3/22/11	22:10	22.53	3/23/11	2:35	22.48
3/22/11	9:00	23.37	3/22/11	13:25	23.02	3/22/11	17:50	22.68	3/22/11	22:15	22.53	3/23/11	2:40	22.48
3/22/11	9:05	23.37	3/22/11	13:30	23.02	3/22/11	17:55	22.68	3/22/11	22:20	22.53	3/23/11	2:45	22.48
3/22/11	9:10	23.33	3/22/11	13:35	23.02	3/22/11	18:00	22.68	3/22/11	22:25	22.53	3/23/11	2:50	22.44
3/22/11	9:15	23.37	3/22/11	13:40	22.99	3/22/11	18:05	22.64	3/22/11	22:30	22.53	3/23/11	2:55	22.44
3/22/11	9:20	23.33	3/22/11	13:45	22.99	3/22/11	18:10	22.64	3/22/11	22:35	22.53	3/23/11	3:00	22.44
3/22/11	9:25	23.33	3/22/11	13:50	22.99	3/22/11	18:15	22.64	3/22/11	22:40	22.49	3/23/11	3:05	22.48
3/22/11	9:30	23.33	3/22/11	13:55	22.99	3/22/11	18:20	22.64	3/22/11	22:45	22.53	3/23/11	3:10	22.44
3/22/11	9:35	23.33	3/22/11	14:00	22.96	3/22/11	18:25	22.64	3/22/11	22:50	22.53	3/23/11	3:15	22.44
3/22/11	9:40	23.30	3/22/11	14:05	22.96	3/22/11	18:30	22.61	3/22/11	22:55	22.53	3/23/11	3:20	22.44
3/22/11	9:45	23.30	3/22/11	14:10	22.96	3/22/11	18:35	22.61	3/22/11	23:00	22.53	3/23/11	3:25	22.44
3/22/11	9:50	23.30	3/22/11	14:15	22.96	3/22/11	18:40	22.61	3/22/11	23:05	22.53	3/23/11	3:30	22.44
3/22/11	9:55	23.27	3/22/11	14:20	22.96	3/22/11	18:45	22.61	3/22/11	23:10	22.53	3/23/11	3:35	22.44
3/22/11	10:00	23.29	3/22/11	14:25	22.92	3/22/11	18:50	22.61	3/22/11	23:15	22.49	3/23/11	3:40	22.44
3/22/11	10:05	23.25	3/22/11	14:30	22.92	3/22/11	18:55	22.61	3/22/11	23:20	22.53	3/23/11	3:45	22.44
3/22/11	10:10	23.25	3/22/11	14:35	22.92	3/22/11	19:00	22.63	3/22/11	23:25	22.53	3/23/11	3:50	22.41
3/22/11	10:15	23.25	3/22/11	14:40	22.92	3/22/11	19:05	22.63	3/22/11	23:30	22.49	3/23/11	3:55	22.44
3/22/11	10:20	23.25	3/22/11	14:45	22.92	3/22/11	19:10	22.59	3/22/11	23:35	22.49	3/23/11	4:00	22.40
3/22/11	10:25	23.25	3/22/11	14:50	22.92	3/22/11	19:15	22.59	3/22/11	23:40	22.53	3/23/11	4:05	22.40
3/22/11	10:30	23.22	3/22/11	14:55	22.89	3/22/11	19:20	22.59	3/22/11	23:45	22.53	3/23/11	4:10	22.40
3/22/11	10:35	23.25	3/22/11	15:00	22.87	3/22/11	19:25	22.59	3/22/11	23:50	22.49	3/23/11	4:15	22.40
3/22/11	10:40	23.25	3/22/11	15:05	22.87	3/22/11	19:30	22.59	3/22/11	23:55	22.49	3/23/11	4:20	22.40
3/22/11	10:45	23.22	3/22/11	15:10	22.87	3/22/11	19:35	22.59	3/23/11	0:00	22.49	3/23/11	4:25	22.40
3/22/11	10:50	23.22	3/22/11	15:15	22.87	3/22/11	19:40	22.59	3/23/11	0:05	22.49	3/23/11	4:30	22.40
3/22/11	10:55	23.22	3/22/11	15:20	22.87	3/22/11	19:45	22.59	3/23/11	0:10	22.49	3/23/11	4:35	22.40
3/22/11	11:00	23.17	3/22/11	15:25	22.87	3/22/11	19:50	22.59	3/23/11	0:15	22.46	3/23/11	4:40	22.40
3/22/11	11:05	23.17	3/22/11	15:30	22.87	3/22/11	19:55	22.56	3/23/11	0:20	22.49	3/23/11	4:45	22.40
3/22/11	11:10	23.17	3/22/11	15:35	22.87	3/22/11	20:00	22.58	3/23/11	0:25	22.49	3/23/11	4:50	22.40
3/22/11	11:15	23.17	3/22/11	15:40	22.84	3/22/11	20:05	22.58	3/23/11	0:30	22.49	3/23/11	4:55	22.40
3/22/11	11:20	23.17	3/22/11	15:45	22.84	3/22/11	20:10	22.58	3/23/11	0:35	22.46	3/23/11	5:00	22.36
3/22/11	11:25	23.17	3/22/11	15:50	22.84	3/22/11	20:15	22.58	3/23/11	0:40	22.49	3/23/11	5:05	22.36
3/22/11	11:30	23.14	3/22/11	15:55	22.84	3/22/11	20:20	22.54	3/23/11	0:45	22.49	3/23/11	5:10	22.36
3/22/11	11:35	23.14	3/22/11	16:00	22.77	3/22/11	20:25	22.58	3/23/11	0:50	22.46	3/23/11	5:15	22.36
3/22/11	11:40	23.14	3/22/11	16:05	22.77	3/22/11	20:30	22.54	3/23/11	0:55	22.46	3/23/11	5:20	22.36
3/22/11	11:45	23.14	3/22/11	16:10	22.77	3/22/11	20:35	22.54	3/23/11	1:00	22.46	3/23/11	5:25	22.36
3/22/11	11:50	23.14	3/22/11	16:15	22.77	3/22/11	20:40	22.54	3/23/11	1:05	22.46	3/23/11	5:30	22.36
3/22/11	11:55	23.14	3/22/11	16:20	22.77	3/22/11	20:45	22.54	3/23/11	1:10	22.46	3/23/11	5:35	22.36
3/22/11	12:00	23.12	3/22/11	16:25	22.77	3/22/11	20:50	22.54	3/23/11	1:15	22.46	3/23/11	5:40	22.33
3/22/11	12:05	23.12	3/22/11	16:30	22.77	3/22/11	20:55	22.51	3/23/11	1:20	22.46	3/23/11	5:45	22.33
3/22/11	12:10	23.12	3/22/11	16:35	22.77	3/22/11	21:00	22.53	3/23/11	1:25	22.46	3/23/11	5:50	22.33
3/22/11	12:15	23.12	3/22/11	16:40	22.77	3/22/11	21:05	22.53	3/23/11	1:30	22.46	3/23/11	5:55	22.33
3/22/11	12:20	23.09	3/22/11	16:45	22.77	3/22/11	21:10	22.53	3/23/11	1:35	22.46	3/23/11	6:00	22.35
3/22/11	12:25	23.09	3/22/11	16:50	22.74	3/22/11	21:15	22.53	3/23/11	1:40	22.46	3/23/11	6:05	22.35
3/22/11	12:30	23.09	3/22/11	16:55	22.74	3/22/11	21:20	22.53	3/23/11	1:45	22.46	3/23/11	6:10	22.35
3/22/11	12:35	23.09	3/22/11	17:00	22.74	3/22/11	21:25	22.53	3/23/11	1:50	22.46	3/23/11	6:15	22.35
3/22/11	12:40	23.09	3/22/11	17:05	22.71	3/22/11	21:30	22.53	3/23/11	1:55	22.46	3/23/11	6:20	22.31
3/22/11	12:45	23.05	3/22/11	17:10	22.71	3/22/11	21:35	22.53	3/23/11	2:00	22.48	3/23/11	6:25	22.31
3/22/11	12:50	23.09	3/22/11	17:15	22.71	3/22/11	21:40	22.53	3/23/11	2:05	22.48	3/23/11	6:30	22.31
3/22/11	12:55	23.09	3/22/11	17:20	22.71	3/22/11	21:45	22.53	3/23/11	2:10	22.48	3/23/11	6:35	22.31
3/22/11	13:00	23.02	3/22/11	17:25	22.71	3/22/11	21:50	22.49	3/23/11	2:15	22.48	3/23/11	6:40	22.31

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/23/11	6:45	22.31	3/23/11	11:10	22.23	3/23/11	15:35	22.13	3/23/11	20:00	22.03	3/24/11	0:25	22.07
3/23/11	6:50	22.31	3/23/11	11:15	22.23	3/23/11	15:40	22.13	3/23/11	20:05	22.03	3/24/11	0:30	22.07
3/23/11	6:55	22.31	3/23/11	11:20	22.23	3/23/11	15:45	22.13	3/23/11	20:10	22.03	3/24/11	0:35	22.07
3/23/11	7:00	22.28	3/23/11	11:25	22.23	3/23/11	15:50	22.13	3/23/11	20:15	22.03	3/24/11	0:40	22.07
3/23/11	7:05	22.28	3/23/11	11:30	22.20	3/23/11	15:55	22.13	3/23/11	20:20	22.03	3/24/11	0:45	22.07
3/23/11	7:10	22.28	3/23/11	11:35	22.23	3/23/11	16:00	22.11	3/23/11	20:25	22.03	3/24/11	0:50	22.07
3/23/11	7:15	22.28	3/23/11	11:40	22.20	3/23/11	16:05	22.11	3/23/11	20:30	22.03	3/24/11	0:55	22.07
3/23/11	7:20	22.28	3/23/11	11:45	22.20	3/23/11	16:10	22.11	3/23/11	20:35	22.03	3/24/11	1:00	22.07
3/23/11	7:25	22.28	3/23/11	11:50	22.20	3/23/11	16:15	22.11	3/23/11	20:40	22.03	3/24/11	1:05	22.10
3/23/11	7:30	22.28	3/23/11	11:55	22.20	3/23/11	16:20	22.11	3/23/11	20:45	22.03	3/24/11	1:10	22.10
3/23/11	7:35	22.28	3/23/11	12:00	22.23	3/23/11	16:25	22.11	3/23/11	20:50	22.03	3/24/11	1:15	22.07
3/23/11	7:40	22.28	3/23/11	12:05	22.20	3/23/11	16:30	22.11	3/23/11	20:55	22.03	3/24/11	1:20	22.10
3/23/11	7:45	22.28	3/23/11	12:10	22.23	3/23/11	16:35	22.08	3/23/11	21:00	22.05	3/24/11	1:25	22.10
3/23/11	7:50	22.28	3/23/11	12:15	22.23	3/23/11	16:40	22.11	3/23/11	21:05	22.05	3/24/11	1:30	22.10
3/23/11	7:55	22.28	3/23/11	12:20	22.20	3/23/11	16:45	22.11	3/23/11	21:10	22.05	3/24/11	1:35	22.10
3/23/11	8:00	22.30	3/23/11	12:25	22.20	3/23/11	16:50	22.08	3/23/11	21:15	22.05	3/24/11	1:40	22.10
3/23/11	8:05	22.30	3/23/11	12:30	22.23	3/23/11	16:55	22.08	3/23/11	21:20	22.02	3/24/11	1:45	22.10
3/23/11	8:10	22.26	3/23/11	12:35	22.20	3/23/11	17:00	22.11	3/23/11	21:25	22.05	3/24/11	1:50	22.10
3/23/11	8:15	22.30	3/23/11	12:40	22.23	3/23/11	17:05	22.11	3/23/11	21:30	22.05	3/24/11	1:55	22.10
3/23/11	8:20	22.26	3/23/11	12:45	22.20	3/23/11	17:10	22.08	3/23/11	21:35	22.02	3/24/11	2:00	22.08
3/23/11	8:25	22.26	3/23/11	12:50	22.23	3/23/11	17:15	22.08	3/23/11	21:40	22.02	3/24/11	2:05	22.08
3/23/11	8:30	22.26	3/23/11	12:55	22.23	3/23/11	17:20	22.08	3/23/11	21:45	22.02	3/24/11	2:10	22.08
3/23/11	8:35	22.26	3/23/11	13:00	22.21	3/23/11	17:25	22.08	3/23/11	21:50	22.02	3/24/11	2:15	22.08
3/23/11	8:40	22.26	3/23/11	13:05	22.18	3/23/11	17:30	22.08	3/23/11	21:55	22.02	3/24/11	2:20	22.08
3/23/11	8:45	22.26	3/23/11	13:10	22.21	3/23/11	17:35	22.08	3/23/11	22:00	22.05	3/24/11	2:25	22.08
3/23/11	8:50	22.26	3/23/11	13:15	22.18	3/23/11	17:40	22.08	3/23/11	22:05	22.05	3/24/11	2:30	22.08
3/23/11	8:55	22.23	3/23/11	13:20	22.21	3/23/11	17:45	22.08	3/23/11	22:10	22.05	3/24/11	2:35	22.08
3/23/11	9:00	22.26	3/23/11	13:25	22.21	3/23/11	17:50	22.08	3/23/11	22:15	22.05	3/24/11	2:40	22.08
3/23/11	9:05	22.23	3/23/11	13:30	22.21	3/23/11	17:55	22.08	3/23/11	22:20	22.05	3/24/11	2:45	22.08
3/23/11	9:10	22.23	3/23/11	13:35	22.21	3/23/11	18:00	22.08	3/23/11	22:25	22.05	3/24/11	2:50	22.08
3/23/11	9:15	22.26	3/23/11	13:40	22.21	3/23/11	18:05	22.08	3/23/11	22:30	22.05	3/24/11	2:55	22.08
3/23/11	9:20	22.23	3/23/11	13:45	22.21	3/23/11	18:10	22.08	3/23/11	22:35	22.05	3/24/11	3:00	22.08
3/23/11	9:25	22.23	3/23/11	13:50	22.21	3/23/11	18:15	22.08	3/23/11	22:40	22.05	3/24/11	3:05	22.08
3/23/11	9:30	22.23	3/23/11	13:55	22.21	3/23/11	18:20	22.08	3/23/11	22:45	22.05	3/24/11	3:10	22.08
3/23/11	9:35	22.23	3/23/11	14:00	22.20	3/23/11	18:25	22.08	3/23/11	22:50	22.05	3/24/11	3:15	22.08
3/23/11	9:40	22.23	3/23/11	14:05	22.20	3/23/11	18:30	22.08	3/23/11	22:55	22.05	3/24/11	3:20	22.08
3/23/11	9:45	22.23	3/23/11	14:10	22.20	3/23/11	18:35	22.08	3/23/11	23:00	22.07	3/24/11	3:25	22.08
3/23/11	9:50	22.23	3/23/11	14:15	22.20	3/23/11	18:40	22.05	3/23/11	23:05	22.07	3/24/11	3:30	22.08
3/23/11	9:55	22.23	3/23/11	14:20	22.20	3/23/11	18:45	22.05	3/23/11	23:10	22.07	3/24/11	3:35	22.08
3/23/11	10:00	22.23	3/23/11	14:25	22.20	3/23/11	18:50	22.05	3/23/11	23:15	22.07	3/24/11	3:40	22.08
3/23/11	10:05	22.23	3/23/11	14:30	22.20	3/23/11	18:55	22.05	3/23/11	23:20	22.07	3/24/11	3:45	22.08
3/23/11	10:10	22.23	3/23/11	14:35	22.20	3/23/11	19:00	22.05	3/23/11	23:25	22.07	3/24/11	3:50	22.05
3/23/11	10:15	22.23	3/23/11	14:40	22.20	3/23/11	19:05	22.05	3/23/11	23:30	22.07	3/24/11	3:55	22.08
3/23/11	10:20	22.23	3/23/11	14:45	22.20	3/23/11	19:10	22.05	3/23/11	23:35	22.07	3/24/11	4:00	22.08
3/23/11	10:25	22.23	3/23/11	14:50	22.20	3/23/11	19:15	22.05	3/23/11	23:40	22.10	3/24/11	4:05	22.05
3/23/11	10:30	22.23	3/23/11	14:55	22.20	3/23/11	19:20	22.05	3/23/11	23:45	22.07	3/24/11	4:10	22.08
3/23/11	10:35	22.23	3/23/11	15:00	22.16	3/23/11	19:25	22.05	3/23/11	23:50	22.07	3/24/11	4:15	22.08
3/23/11	10:40	22.23	3/23/11	15:05	22.16	3/23/11	19:30	22.05	3/23/11	23:55	22.07	3/24/11	4:20	22.08
3/23/11	10:45	22.23	3/23/11	15:10	22.16	3/23/11	19:35	22.02	3/24/11	0:00	22.07	3/24/11	4:25	22.08
3/23/11	10:50	22.23	3/23/11	15:15	22.13	3/23/11	19:40	22.02	3/24/11	0:05	22.07	3/24/11	4:30	22.08
3/23/11	10:55	22.20	3/23/11	15:20	22.16	3/23/11	19:45	22.02	3/24/11	0:10	22.10	3/24/11	4:35	22.08
3/23/11	11:00	22.20	3/23/11	15:25	22.16	3/23/11	19:50	22.02	3/24/11	0:15	22.07	3/24/11	4:40	22.05
3/23/11	11:05	22.23	3/23/11	15:30	22.16	3/23/11	19:55	22.02	3/24/11	0:20	22.07	3/24/11	4:45	22.05

TABLE A.1-2. TRANSDUCER DATA FOR OBSERVATION WELL 1001, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/24/11	4:50	22.05	3/24/11	9:15	22.02									
3/24/11	4:55	22.05	3/24/11	9:20	22.02									
3/24/11	5:00	22.05	3/24/11	9:25	22.02									
3/24/11	5:05	22.05	3/24/11	9:30	22.02									
3/24/11	5:10	22.08	3/24/11	9:35	22.02									
3/24/11	5:15	22.05	3/24/11	9:40	22.02									
3/24/11	5:20	22.05	3/24/11	9:45	22.02									
3/24/11	5:25	22.05	3/24/11	9:50	22.02									
3/24/11	5:30	22.05	3/24/11	9:55	21.98									
3/24/11	5:35	22.05	3/24/11	10:00	22.00									
3/24/11	5:40	22.05	3/24/11	10:05	22.00									
3/24/11	5:45	22.05	3/24/11	10:10	22.00									
3/24/11	5:50	22.05												
3/24/11	5:55	22.05												
3/24/11	6:00	22.05												
3/24/11	6:05	22.05												
3/24/11	6:10	22.05												
3/24/11	6:15	22.02												
3/24/11	6:20	22.02												
3/24/11	6:25	22.02												
3/24/11	6:30	22.02												
3/24/11	6:35	22.02												
3/24/11	6:40	22.02												
3/24/11	6:45	22.02												
3/24/11	6:50	22.02												
3/24/11	6:55	22.02												
3/24/11	7:00	22.03												
3/24/11	7:05	22.03												
3/24/11	7:10	22.03												
3/24/11	7:15	22.00												
3/24/11	7:20	22.00												
3/24/11	7:25	22.00												
3/24/11	7:30	22.00												
3/24/11	7:35	22.00												
3/24/11	7:40	22.00												
3/24/11	7:45	22.00												
3/24/11	7:50	22.00												
3/24/11	7:55	22.00												
3/24/11	8:00	22.03												
3/24/11	8:05	22.03												
3/24/11	8:10	22.00												
3/24/11	8:15	22.00												
3/24/11	8:20	22.00												
3/24/11	8:25	22.00												
3/24/11	8:30	22.00												
3/24/11	8:35	22.00												
3/24/11	8:40	22.00												
3/24/11	8:45	22.00												
3/24/11	8:50	22.00												
3/24/11	8:55	22.00												
3/24/11	9:00	22.02												
3/24/11	9:05	22.02												
3/24/11	9:10	22.02												

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/18/11	14:23	21.69	3/18/11	18:48	21.41	3/18/11	23:13	21.61	3/19/11	3:38	21.58	3/19/11	8:03	21.56
3/18/11	14:28	21.69	3/18/11	18:53	21.41	3/18/11	23:18	21.61	3/19/11	3:43	21.58	3/19/11	8:08	21.56
3/18/11	14:33	21.68	3/18/11	18:58	21.43	3/18/11	23:23	21.63	3/19/11	3:48	21.58	3/19/11	8:13	21.56
3/18/11	14:38	21.68	3/18/11	19:03	21.46	3/18/11	23:28	21.61	3/19/11	3:53	21.58	3/19/11	8:18	21.56
3/18/11	14:43	21.68	3/18/11	19:08	21.46	3/18/11	23:33	21.61	3/19/11	3:58	21.58	3/19/11	8:23	21.56
3/18/11	14:48	21.68	3/18/11	19:13	21.46	3/18/11	23:38	21.61	3/19/11	4:03	21.56	3/19/11	8:28	21.56
3/18/11	14:53	21.68	3/18/11	19:18	21.46	3/18/11	23:43	21.61	3/19/11	4:08	21.56	3/19/11	8:33	21.56
3/18/11	14:58	21.66	3/18/11	19:23	21.48	3/18/11	23:48	21.63	3/19/11	4:13	21.56	3/19/11	8:38	21.56
3/18/11	15:03	21.68	3/18/11	19:28	21.48	3/18/11	23:53	21.63	3/19/11	4:18	21.56	3/19/11	8:43	21.56
3/18/11	15:08	21.64	3/18/11	19:33	21.48	3/18/11	23:58	21.63	3/19/11	4:23	21.56	3/19/11	8:48	21.56
3/18/11	15:13	21.63	3/18/11	19:38	21.48	3/19/11	0:03	21.64	3/19/11	4:28	21.56	3/19/11	8:53	21.56
3/18/11	15:18	21.59	3/18/11	19:43	21.48	3/19/11	0:08	21.63	3/19/11	4:33	21.56	3/19/11	8:58	21.56
3/18/11	15:23	21.58	3/18/11	19:48	21.48	3/19/11	0:13	21.63	3/19/11	4:38	21.56	3/19/11	9:03	21.58
3/18/11	15:28	21.56	3/18/11	19:53	21.48	3/19/11	0:18	21.63	3/19/11	4:43	21.56	3/19/11	9:08	21.59
3/18/11	15:33	21.55	3/18/11	19:58	21.48	3/19/11	0:23	21.63	3/19/11	4:48	21.56	3/19/11	9:13	21.59
3/18/11	15:38	21.55	3/18/11	20:03	21.50	3/19/11	0:28	21.63	3/19/11	4:53	21.54	3/19/11	9:18	21.59
3/18/11	15:43	21.53	3/18/11	20:08	21.50	3/19/11	0:33	21.64	3/19/11	4:58	21.54	3/19/11	9:23	21.59
3/18/11	15:48	21.51	3/18/11	20:13	21.50	3/19/11	0:38	21.64	3/19/11	5:03	21.56	3/19/11	9:28	21.59
3/18/11	15:53	21.50	3/18/11	20:18	21.50	3/19/11	0:43	21.64	3/19/11	5:08	21.56	3/19/11	9:33	21.59
3/18/11	15:58	21.51	3/18/11	20:23	21.50	3/19/11	0:48	21.64	3/19/11	5:13	21.56	3/19/11	9:38	21.59
3/18/11	16:03	21.48	3/18/11	20:28	21.50	3/19/11	0:53	21.64	3/19/11	5:18	21.56	3/19/11	9:43	21.59
3/18/11	16:08	21.48	3/18/11	20:33	21.50	3/19/11	0:58	21.64	3/19/11	5:23	21.56	3/19/11	9:48	21.59
3/18/11	16:13	21.46	3/18/11	20:38	21.50	3/19/11	1:03	21.64	3/19/11	5:28	21.56	3/19/11	9:53	21.59
3/18/11	16:18	21.45	3/18/11	20:43	21.50	3/19/11	1:08	21.64	3/19/11	5:33	21.56	3/19/11	9:58	21.59
3/18/11	16:23	21.45	3/18/11	20:48	21.50	3/19/11	1:13	21.64	3/19/11	5:38	21.54	3/19/11	10:03	21.59
3/18/11	16:28	21.45	3/18/11	20:53	21.51	3/19/11	1:18	21.63	3/19/11	5:43	21.56	3/19/11	10:08	21.59
3/18/11	16:33	21.43	3/18/11	20:58	21.51	3/19/11	1:23	21.64	3/19/11	5:48	21.54	3/19/11	10:13	21.61
3/18/11	16:38	21.45	3/18/11	21:03	21.55	3/19/11	1:28	21.63	3/19/11	5:53	21.54	3/19/11	10:18	21.61
3/18/11	16:43	21.45	3/18/11	21:08	21.55	3/19/11	1:33	21.63	3/19/11	5:58	21.54	3/19/11	10:23	21.61
3/18/11	16:48	21.45	3/18/11	21:13	21.53	3/19/11	1:38	21.63	3/19/11	6:03	21.54	3/19/11	10:28	21.59
3/18/11	16:53	21.43	3/18/11	21:18	21.55	3/19/11	1:43	21.63	3/19/11	6:08	21.54	3/19/11	10:33	21.61
3/18/11	16:58	21.45	3/18/11	21:23	21.53	3/19/11	1:48	21.63	3/19/11	6:13	21.54	3/19/11	10:38	21.58
3/18/11	17:03	21.45	3/18/11	21:28	21.53	3/19/11	1:53	21.63	3/19/11	6:18	21.54	3/19/11	10:43	21.58
3/18/11	17:08	21.45	3/18/11	21:33	21.53	3/19/11	1:58	21.61	3/19/11	6:23	21.54	3/19/11	10:48	21.58
3/18/11	17:13	21.45	3/18/11	21:38	21.53	3/19/11	2:03	21.61	3/19/11	6:28	21.54	3/19/11	10:53	21.59
3/18/11	17:18	21.45	3/18/11	21:43	21.53	3/19/11	2:08	21.61	3/19/11	6:33	21.54	3/19/11	10:58	21.58
3/18/11	17:23	21.45	3/18/11	21:48	21.53	3/19/11	2:13	21.61	3/19/11	6:38	21.54	3/19/11	11:03	21.58
3/18/11	17:28	21.45	3/18/11	21:53	21.53	3/19/11	2:18	21.61	3/19/11	6:43	21.53	3/19/11	11:08	21.58
3/18/11	17:33	21.45	3/18/11	21:58	21.53	3/19/11	2:23	21.59	3/19/11	6:48	21.54	3/19/11	11:13	21.58
3/18/11	17:38	21.45	3/18/11	22:03	21.58	3/19/11	2:28	21.59	3/19/11	6:53	21.54	3/19/11	11:18	21.58
3/18/11	17:43	21.45	3/18/11	22:08	21.58	3/19/11	2:33	21.59	3/19/11	6:58	21.54	3/19/11	11:23	21.58
3/18/11	17:48	21.46	3/18/11	22:13	21.58	3/19/11	2:38	21.58	3/19/11	7:03	21.54	3/19/11	11:28	21.58
3/18/11	17:53	21.46	3/18/11	22:18	21.58	3/19/11	2:43	21.59	3/19/11	7:08	21.53	3/19/11	11:33	21.58
3/18/11	17:58	21.46	3/18/11	22:23	21.59	3/19/11	2:48	21.59	3/19/11	7:13	21.53	3/19/11	11:38	21.58
3/18/11	18:03	21.41	3/18/11	22:28	21.58	3/19/11	2:53	21.58	3/19/11	7:18	21.53	3/19/11	11:43	21.58
3/18/11	18:08	21.41	3/18/11	22:33	21.58	3/19/11	2:58	21.58	3/19/11	7:23	21.53	3/19/11	11:48	21.59
3/18/11	18:13	21.41	3/18/11	22:38	21.58	3/19/11	3:03	21.58	3/19/11	7:28	21.54	3/19/11	11:53	21.58
3/18/11	18:18	21.41	3/18/11	22:43	21.58	3/19/11	3:08	21.58	3/19/11	7:33	21.53	3/19/11	12:01	21.67
3/18/11	18:23	21.41	3/18/11	22:48	21.58	3/19/11	3:13	21.58	3/19/11	7:38	21.53	3/19/11	12:02	21.67
3/18/11	18:28	21.41	3/18/11	22:53	21.59	3/19/11	3:18	21.58	3/19/11	7:43	21.53	3/19/11	12:03	21.67
3/18/11	18:33	21.41	3/18/11	22:58	21.59	3/19/11	3:23	21.58	3/19/11	7:48	21.53	3/19/11	12:04	21.67
3/18/11	18:38	21.41	3/18/11	23:03	21.63	3/19/11	3:28	21.58	3/19/11	7:53	21.53	3/19/11	12:05	21.67
3/18/11	18:43	21.41	3/18/11	23:08	21.63	3/19/11	3:33	21.58	3/19/11	7:58	21.51	3/19/11	12:06	21.67

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/19/11	12:07	21.67	3/19/11	13:00	21.78	3/19/11	13:53	21.78	3/19/11	14:46	23.18	3/19/11	15:39	23.72
3/19/11	12:08	21.67	3/19/11	13:01	21.78	3/19/11	13:54	21.78	3/19/11	14:47	23.21	3/19/11	15:40	23.71
3/19/11	12:09	21.67	3/19/11	13:02	21.78	3/19/11	13:55	21.78	3/19/11	14:48	23.28	3/19/11	15:41	23.69
3/19/11	12:10	21.67	3/19/11	13:03	21.78	3/19/11	13:56	21.78	3/19/11	14:49	23.33	3/19/11	15:42	23.69
3/19/11	12:11	21.67	3/19/11	13:04	21.78	3/19/11	13:57	21.78	3/19/11	14:50	23.38	3/19/11	15:43	23.67
3/19/11	12:12	21.67	3/19/11	13:05	21.78	3/19/11	13:58	21.78	3/19/11	14:51	23.43	3/19/11	15:44	23.66
3/19/11	12:13	21.67	3/19/11	13:06	21.78	3/19/11	13:59	21.78	3/19/11	14:52	23.48	3/19/11	15:45	23.66
3/19/11	12:14	21.67	3/19/11	13:07	21.78	3/19/11	14:00	21.75	3/19/11	14:53	23.53	3/19/11	15:46	23.64
3/19/11	12:15	21.67	3/19/11	13:08	21.78	3/19/11	14:01	21.75	3/19/11	14:54	23.57	3/19/11	15:47	23.62
3/19/11	12:16	21.67	3/19/11	13:09	21.78	3/19/11	14:02	21.75	3/19/11	14:55	23.61	3/19/11	15:48	23.62
3/19/11	12:17	21.67	3/19/11	13:10	21.78	3/19/11	14:03	21.75	3/19/11	14:56	23.66	3/19/11	15:49	23.59
3/19/11	12:18	21.67	3/19/11	13:11	21.78	3/19/11	14:04	21.75	3/19/11	14:57	23.69	3/19/11	15:50	23.59
3/19/11	12:19	21.67	3/19/11	13:12	21.78	3/19/11	14:05	21.75	3/19/11	14:58	23.72	3/19/11	15:51	23.59
3/19/11	12:20	21.67	3/19/11	13:13	21.78	3/19/11	14:06	21.75	3/19/11	14:59	23.76	3/19/11	15:52	23.56
3/19/11	12:21	21.67	3/19/11	13:14	21.78	3/19/11	14:07	21.75	3/19/11	15:00	23.77	3/19/11	15:53	23.56
3/19/11	12:22	21.67	3/19/11	13:15	21.78	3/19/11	14:08	21.75	3/19/11	15:01	23.81	3/19/11	15:54	23.54
3/19/11	12:23	21.67	3/19/11	13:16	21.78	3/19/11	14:09	21.75	3/19/11	15:02	23.82	3/19/11	15:55	23.52
3/19/11	12:24	21.67	3/19/11	13:17	21.78	3/19/11	14:10	21.75	3/19/11	15:03	23.86	3/19/11	15:56	23.52
3/19/11	12:25	21.67	3/19/11	13:18	21.78	3/19/11	14:11	21.75	3/19/11	15:04	23.86	3/19/11	15:57	23.49
3/19/11	12:26	21.67	3/19/11	13:19	21.78	3/19/11	14:12	21.77	3/19/11	15:05	23.87	3/19/11	15:58	23.49
3/19/11	12:27	21.67	3/19/11	13:20	21.78	3/19/11	14:13	21.80	3/19/11	15:06	23.91	3/19/11	15:59	23.46
3/19/11	12:28	21.67	3/19/11	13:21	21.78	3/19/11	14:14	21.82	3/19/11	15:07	23.92	3/19/11	16:00	23.43
3/19/11	12:29	21.67	3/19/11	13:22	21.78	3/19/11	14:15	21.85	3/19/11	15:08	23.92	3/19/11	16:01	23.41
3/19/11	12:30	21.68	3/19/11	13:23	21.78	3/19/11	14:16	21.87	3/19/11	15:09	23.94	3/19/11	16:02	23.39
3/19/11	12:31	21.68	3/19/11	13:24	21.78	3/19/11	14:17	21.88	3/19/11	15:10	23.96	3/19/11	16:03	23.38
3/19/11	12:32	21.68	3/19/11	13:25	21.78	3/19/11	14:18	21.92	3/19/11	15:11	23.96	3/19/11	16:04	23.36
3/19/11	12:33	21.70	3/19/11	13:26	21.78	3/19/11	14:19	21.95	3/19/11	15:12	23.96	3/19/11	16:05	23.36
3/19/11	12:34	21.68	3/19/11	13:27	21.78	3/19/11	14:20	21.98	3/19/11	15:13	23.96	3/19/11	16:06	23.34
3/19/11	12:35	21.68	3/19/11	13:28	21.78	3/19/11	14:21	22.02	3/19/11	15:14	23.96	3/19/11	16:07	23.31
3/19/11	12:36	21.70	3/19/11	13:29	21.78	3/19/11	14:22	22.07	3/19/11	15:15	23.96	3/19/11	16:08	23.29
3/19/11	12:37	21.70	3/19/11	13:30	21.78	3/19/11	14:23	22.10	3/19/11	15:16	23.96	3/19/11	16:09	23.29
3/19/11	12:38	21.70	3/19/11	13:31	21.78	3/19/11	14:24	22.15	3/19/11	15:17	23.96	3/19/11	16:10	23.28
3/19/11	12:39	21.70	3/19/11	13:32	21.78	3/19/11	14:25	22.18	3/19/11	15:18	23.94	3/19/11	16:11	23.26
3/19/11	12:40	21.70	3/19/11	13:33	21.78	3/19/11	14:26	22.22	3/19/11	15:19	23.92	3/19/11	16:12	23.24
3/19/11	12:41	21.70	3/19/11	13:34	21.78	3/19/11	14:27	22.27	3/19/11	15:20	23.92	3/19/11	16:13	23.23
3/19/11	12:42	21.70	3/19/11	13:35	21.78	3/19/11	14:28	22.28	3/19/11	15:21	23.92	3/19/11	16:14	23.21
3/19/11	12:43	21.70	3/19/11	13:36	21.78	3/19/11	14:29	22.35	3/19/11	15:22	23.91	3/19/11	16:15	23.19
3/19/11	12:44	21.70	3/19/11	13:37	21.78	3/19/11	14:30	22.40	3/19/11	15:23	23.89	3/19/11	16:16	23.19
3/19/11	12:45	21.70	3/19/11	13:38	21.78	3/19/11	14:31	22.43	3/19/11	15:24	23.87	3/19/11	16:17	23.16
3/19/11	12:46	21.70	3/19/11	13:39	21.78	3/19/11	14:32	22.48	3/19/11	15:25	23.86	3/19/11	16:18	23.16
3/19/11	12:47	21.70	3/19/11	13:40	21.78	3/19/11	14:33	22.53	3/19/11	15:26	23.86	3/19/11	16:19	23.14
3/19/11	12:48	21.70	3/19/11	13:41	21.78	3/19/11	14:34	22.58	3/19/11	15:27	23.84	3/19/11	16:20	23.13
3/19/11	12:49	21.70	3/19/11	13:42	21.78	3/19/11	14:35	22.63	3/19/11	15:28	23.82	3/19/11	16:21	23.11
3/19/11	12:50	21.70	3/19/11	13:43	21.78	3/19/11	14:36	22.68	3/19/11	15:29	23.82	3/19/11	16:22	23.09
3/19/11	12:51	21.70	3/19/11	13:44	21.78	3/19/11	14:37	22.73	3/19/11	15:30	23.81	3/19/11	16:23	23.09
3/19/11	12:52	21.70	3/19/11	13:45	21.78	3/19/11	14:38	22.78	3/19/11	15:31	23.79	3/19/11	16:24	23.08
3/19/11	12:53	21.70	3/19/11	13:46	21.78	3/19/11	14:39	22.81	3/19/11	15:32	23.79	3/19/11	16:25	23.06
3/19/11	12:54	21.70	3/19/11	13:47	21.78	3/19/11	14:40	22.88	3/19/11	15:33	23.77	3/19/11	16:26	23.04
3/19/11	12:55	21.70	3/19/11	13:48	21.78	3/19/11	14:41	22.93	3/19/11	15:34	23.76	3/19/11	16:27	23.03
3/19/11	12:56	21.70	3/19/11	13:49	21.78	3/19/11	14:42	22.98	3/19/11	15:35	23.76	3/19/11	16:28	23.03
3/19/11	12:57	21.70	3/19/11	13:50	21.78	3/19/11	14:43	23.01	3/19/11	15:36	23.72	3/19/11	16:29	23.01
3/19/11	12:58	21.70	3/19/11	13:51	21.78	3/19/11	14:44	23.08	3/19/11	15:37	23.72	3/19/11	16:30	22.99
3/19/11	12:59	21.70	3/19/11	13:52	21.78	3/19/11	14:45	23.13	3/19/11	15:38	23.72	3/19/11	16:31	22.98

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/19/11	16:32	22.96	3/19/11	17:25	23.11	3/19/11	18:18	26.01	3/19/11	19:11	27.88	3/19/11	20:04	29.03
3/19/11	16:33	22.96	3/19/11	17:26	23.14	3/19/11	18:19	26.04	3/19/11	19:12	27.90	3/19/11	20:05	29.04
3/19/11	16:34	22.94	3/19/11	17:27	23.21	3/19/11	18:20	26.11	3/19/11	19:13	27.93	3/19/11	20:06	29.06
3/19/11	16:35	22.93	3/19/11	17:28	23.28	3/19/11	18:21	26.14	3/19/11	19:14	27.97	3/19/11	20:07	29.08
3/19/11	16:36	22.91	3/19/11	17:29	23.33	3/19/11	18:22	26.18	3/19/11	19:15	28.00	3/19/11	20:08	29.09
3/19/11	16:37	22.89	3/19/11	17:30	23.38	3/19/11	18:23	26.23	3/19/11	19:16	28.02	3/19/11	20:09	29.09
3/19/11	16:38	22.89	3/19/11	17:31	23.43	3/19/11	18:24	26.28	3/19/11	19:17	28.03	3/19/11	20:10	29.13
3/19/11	16:39	22.88	3/19/11	17:32	23.49	3/19/11	18:25	26.31	3/19/11	19:18	28.07	3/19/11	20:11	29.14
3/19/11	16:40	22.86	3/19/11	17:33	23.54	3/19/11	18:26	26.38	3/19/11	19:19	28.10	3/19/11	20:12	29.16
3/19/11	16:41	22.86	3/19/11	17:34	23.61	3/19/11	18:27	26.41	3/19/11	19:20	28.12	3/19/11	20:13	29.19
3/19/11	16:42	22.85	3/19/11	17:35	23.66	3/19/11	18:28	26.44	3/19/11	19:21	28.13	3/19/11	20:14	29.19
3/19/11	16:43	22.83	3/19/11	17:36	23.71	3/19/11	18:29	26.49	3/19/11	19:22	28.17	3/19/11	20:15	29.23
3/19/11	16:44	22.83	3/19/11	17:37	23.77	3/19/11	18:30	26.54	3/19/11	19:23	28.18	3/19/11	20:16	29.23
3/19/11	16:45	22.81	3/19/11	17:38	23.81	3/19/11	18:31	26.57	3/19/11	19:24	28.22	3/19/11	20:17	29.26
3/19/11	16:46	22.78	3/19/11	17:39	23.89	3/19/11	18:32	26.61	3/19/11	19:25	28.23	3/19/11	20:18	29.28
3/19/11	16:47	22.76	3/19/11	17:40	23.94	3/19/11	18:33	26.64	3/19/11	19:26	28.25	3/19/11	20:19	29.29
3/19/11	16:48	22.76	3/19/11	17:41	24.01	3/19/11	18:34	26.69	3/19/11	19:27	28.28	3/19/11	20:20	29.31
3/19/11	16:49	22.73	3/19/11	17:42	24.07	3/19/11	18:35	26.72	3/19/11	19:28	28.30	3/19/11	20:21	29.33
3/19/11	16:50	22.73	3/19/11	17:43	24.14	3/19/11	18:36	26.77	3/19/11	19:29	28.31	3/19/11	20:22	29.34
3/19/11	16:51	22.70	3/19/11	17:44	24.19	3/19/11	18:37	26.81	3/19/11	19:30	28.35	3/19/11	20:23	29.34
3/19/11	16:52	22.70	3/19/11	17:45	24.25	3/19/11	18:38	26.84	3/19/11	19:31	28.36	3/19/11	20:24	29.36
3/19/11	16:53	22.68	3/19/11	17:46	24.30	3/19/11	18:39	26.89	3/19/11	19:32	28.40	3/19/11	20:25	29.39
3/19/11	16:54	22.65	3/19/11	17:47	24.37	3/19/11	18:40	26.92	3/19/11	19:33	28.41	3/19/11	20:26	29.41
3/19/11	16:55	22.63	3/19/11	17:48	24.42	3/19/11	18:41	26.96	3/19/11	19:34	28.43	3/19/11	20:27	29.43
3/19/11	16:56	22.61	3/19/11	17:49	24.47	3/19/11	18:42	26.97	3/19/11	19:35	28.45	3/19/11	20:28	29.44
3/19/11	16:57	22.60	3/19/11	17:50	24.54	3/19/11	18:43	27.04	3/19/11	19:36	28.48	3/19/11	20:29	29.46
3/19/11	16:58	22.58	3/19/11	17:51	24.60	3/19/11	18:44	27.07	3/19/11	19:37	28.50	3/19/11	20:30	29.48
3/19/11	16:59	22.56	3/19/11	17:52	24.67	3/19/11	18:45	27.11	3/19/11	19:38	28.51	3/19/11	20:31	29.49
3/19/11	17:00	22.55	3/19/11	17:53	24.72	3/19/11	18:46	27.14	3/19/11	19:39	28.53	3/19/11	20:32	29.49
3/19/11	17:01	22.51	3/19/11	17:54	24.77	3/19/11	18:47	27.17	3/19/11	19:40	28.55	3/19/11	20:33	29.52
3/19/11	17:02	22.50	3/19/11	17:55	24.83	3/19/11	18:48	27.20	3/19/11	19:41	28.56	3/19/11	20:34	29.52
3/19/11	17:03	22.48	3/19/11	17:56	24.87	3/19/11	18:49	27.24	3/19/11	19:42	28.60	3/19/11	20:35	29.56
3/19/11	17:04	22.48	3/19/11	17:57	24.93	3/19/11	18:50	27.27	3/19/11	19:43	28.61	3/19/11	20:36	29.56
3/19/11	17:05	22.48	3/19/11	17:58	25.00	3/19/11	18:51	27.30	3/19/11	19:44	28.63	3/19/11	20:37	29.57
3/19/11	17:06	22.48	3/19/11	17:59	25.05	3/19/11	18:52	27.34	3/19/11	19:45	28.65	3/19/11	20:38	29.59
3/19/11	17:07	22.48	3/19/11	18:00	25.08	3/19/11	18:53	27.37	3/19/11	19:46	28.68	3/19/11	20:39	29.61
3/19/11	17:08	22.50	3/19/11	18:01	25.15	3/19/11	18:54	27.40	3/19/11	19:47	28.70	3/19/11	20:40	29.62
3/19/11	17:09	22.51	3/19/11	18:02	25.20	3/19/11	18:55	27.44	3/19/11	19:48	28.71	3/19/11	20:41	29.62
3/19/11	17:10	22.55	3/19/11	18:03	25.25	3/19/11	18:56	27.45	3/19/11	19:49	28.75	3/19/11	20:42	29.66
3/19/11	17:11	22.55	3/19/11	18:04	25.31	3/19/11	18:57	27.49	3/19/11	19:50	28.76	3/19/11	20:43	29.66
3/19/11	17:12	22.58	3/19/11	18:05	25.36	3/19/11	18:58	27.50	3/19/11	19:51	28.78	3/19/11	20:44	29.69
3/19/11	17:13	22.61	3/19/11	18:06	25.41	3/19/11	18:59	27.55	3/19/11	19:52	28.80	3/19/11	20:45	29.69
3/19/11	17:14	22.65	3/19/11	18:07	25.46	3/19/11	19:00	27.57	3/19/11	19:53	28.83	3/19/11	20:46	29.71
3/19/11	17:15	22.66	3/19/11	18:08	25.51	3/19/11	19:01	27.60	3/19/11	19:54	28.83	3/19/11	20:47	29.72
3/19/11	17:16	22.71	3/19/11	18:09	25.56	3/19/11	19:02	27.64	3/19/11	19:55	28.86	3/19/11	20:48	29.74
3/19/11	17:17	22.75	3/19/11	18:10	25.61	3/19/11	19:03	27.67	3/19/11	19:56	28.90	3/19/11	20:49	29.76
3/19/11	17:18	22.78	3/19/11	18:11	25.66	3/19/11	19:04	27.70	3/19/11	19:57	28.90	3/19/11	20:50	29.76
3/19/11	17:19	22.83	3/19/11	18:12	25.71	3/19/11	19:05	27.72	3/19/11	19:58	28.91	3/19/11	20:51	29.79
3/19/11	17:20	22.88	3/19/11	18:13	25.76	3/19/11	19:06	27.75	3/19/11	19:59	28.93	3/19/11	20:52	29.81
3/19/11	17:21	22.91	3/19/11	18:14	25.83	3/19/11	19:07	27.77	3/19/11	20:00	28.96	3/19/11	20:53	29.82
3/19/11	17:22	22.96	3/19/11	18:15	25.86	3/19/11	19:08	27.80	3/19/11	20:01	28.96	3/19/11	20:54	29.82
3/19/11	17:23	23.01	3/19/11	18:16	25.91	3/19/11	19:09	27.83	3/19/11	20:02	28.99	3/19/11	20:55	29.86
3/19/11	17:24	23.06	3/19/11	18:17	25.96	3/19/11	19:10	27.87	3/19/11	20:03	29.01	3/19/11	20:56	29.86

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/19/11	20:57	29.87	3/19/11	21:50	30.49	3/19/11	22:43	30.92	3/19/11	23:36	31.27	3/20/11	0:29	31.58
3/19/11	20:58	29.89	3/19/11	21:51	30.50	3/19/11	22:44	30.92	3/19/11	23:37	31.28	3/20/11	0:30	31.60
3/19/11	20:59	29.89	3/19/11	21:52	30.50	3/19/11	22:45	30.93	3/19/11	23:38	31.28	3/20/11	0:31	31.60
3/19/11	21:00	29.92	3/19/11	21:53	30.50	3/19/11	22:46	30.95	3/19/11	23:39	31.30	3/20/11	0:32	31.60
3/19/11	21:01	29.94	3/19/11	21:54	30.52	3/19/11	22:47	30.95	3/19/11	23:40	31.30	3/20/11	0:33	31.60
3/19/11	21:02	29.96	3/19/11	21:55	30.54	3/19/11	22:48	30.97	3/19/11	23:41	31.32	3/20/11	0:34	31.61
3/19/11	21:03	29.97	3/19/11	21:56	30.55	3/19/11	22:49	30.97	3/19/11	23:42	31.32	3/20/11	0:35	31.61
3/19/11	21:04	29.97	3/19/11	21:57	30.54	3/19/11	22:50	30.98	3/19/11	23:43	31.33	3/20/11	0:36	31.63
3/19/11	21:05	29.99	3/19/11	21:58	30.57	3/19/11	22:51	30.98	3/19/11	23:44	31.33	3/20/11	0:37	31.63
3/19/11	21:06	30.01	3/19/11	21:59	30.57	3/19/11	22:52	30.98	3/19/11	23:45	31.33	3/20/11	0:38	31.63
3/19/11	21:07	30.02	3/19/11	22:00	30.59	3/19/11	22:53	30.98	3/19/11	23:46	31.33	3/20/11	0:39	31.63
3/19/11	21:08	30.04	3/19/11	22:01	30.62	3/19/11	22:54	30.98	3/19/11	23:47	31.35	3/20/11	0:40	31.65
3/19/11	21:09	30.04	3/19/11	22:02	30.62	3/19/11	22:55	31.00	3/19/11	23:48	31.35	3/20/11	0:41	31.65
3/19/11	21:10	30.06	3/19/11	22:03	30.64	3/19/11	22:56	31.02	3/19/11	23:49	31.36	3/20/11	0:42	31.65
3/19/11	21:11	30.07	3/19/11	22:04	30.65	3/19/11	22:57	31.02	3/19/11	23:50	31.36	3/20/11	0:43	31.66
3/19/11	21:12	30.09	3/19/11	22:05	30.65	3/19/11	22:58	31.02	3/19/11	23:51	31.36	3/20/11	0:44	31.66
3/19/11	21:13	30.09	3/19/11	22:06	30.65	3/19/11	22:59	31.03	3/19/11	23:52	31.38	3/20/11	0:45	31.66
3/19/11	21:14	30.11	3/19/11	22:07	30.67	3/19/11	23:00	31.05	3/19/11	23:53	31.38	3/20/11	0:46	31.66
3/19/11	21:15	30.11	3/19/11	22:08	30.67	3/19/11	23:01	31.07	3/19/11	23:54	31.38	3/20/11	0:47	31.66
3/19/11	21:16	30.14	3/19/11	22:09	30.68	3/19/11	23:02	31.07	3/19/11	23:55	31.40	3/20/11	0:48	31.66
3/19/11	21:17	30.14	3/19/11	22:10	30.68	3/19/11	23:03	31.07	3/19/11	23:56	31.40	3/20/11	0:49	31.68
3/19/11	21:18	30.16	3/19/11	22:11	30.70	3/19/11	23:04	31.08	3/19/11	23:57	31.40	3/20/11	0:50	31.70
3/19/11	21:19	30.17	3/19/11	22:12	30.70	3/19/11	23:05	31.08	3/19/11	23:58	31.40	3/20/11	0:51	31.70
3/19/11	21:20	30.17	3/19/11	22:13	30.72	3/19/11	23:06	31.08	3/19/11	23:59	31.41	3/20/11	0:52	31.70
3/19/11	21:21	30.17	3/19/11	22:14	30.72	3/19/11	23:07	31.10	3/20/11	0:00	31.41	3/20/11	0:53	31.70
3/19/11	21:22	30.19	3/19/11	22:15	30.72	3/19/11	23:08	31.10	3/20/11	0:01	31.43	3/20/11	0:54	31.71
3/19/11	21:23	30.20	3/19/11	22:16	30.72	3/19/11	23:09	31.10	3/20/11	0:02	31.43	3/20/11	0:55	31.71
3/19/11	21:24	30.22	3/19/11	22:17	30.72	3/19/11	23:10	31.12	3/20/11	0:03	31.43	3/20/11	0:56	31.71
3/19/11	21:25	30.24	3/19/11	22:18	30.75	3/19/11	23:11	31.12	3/20/11	0:04	31.45	3/20/11	0:57	31.71
3/19/11	21:26	30.24	3/19/11	22:19	30.75	3/19/11	23:12	31.13	3/20/11	0:05	31.45	3/20/11	0:58	31.73
3/19/11	21:27	30.24	3/19/11	22:20	30.75	3/19/11	23:13	31.13	3/20/11	0:06	31.45	3/20/11	0:59	31.73
3/19/11	21:28	30.27	3/19/11	22:21	30.77	3/19/11	23:14	31.13	3/20/11	0:07	31.46	3/20/11	1:00	31.73
3/19/11	21:29	30.27	3/19/11	22:22	30.78	3/19/11	23:15	31.15	3/20/11	0:08	31.46	3/20/11	1:01	31.73
3/19/11	21:30	30.29	3/19/11	22:23	30.78	3/19/11	23:16	31.15	3/20/11	0:09	31.46	3/20/11	1:02	31.75
3/19/11	21:31	30.29	3/19/11	22:24	30.78	3/19/11	23:17	31.17	3/20/11	0:10	31.46	3/20/11	1:03	31.75
3/19/11	21:32	30.30	3/19/11	22:25	30.78	3/19/11	23:18	31.17	3/20/11	0:11	31.48	3/20/11	1:04	31.75
3/19/11	21:33	30.30	3/19/11	22:26	30.80	3/19/11	23:19	31.17	3/20/11	0:12	31.48	3/20/11	1:05	31.76
3/19/11	21:34	30.32	3/19/11	22:27	30.82	3/19/11	23:20	31.18	3/20/11	0:13	31.50	3/20/11	1:06	31.76
3/19/11	21:35	30.34	3/19/11	22:28	30.82	3/19/11	23:21	31.18	3/20/11	0:14	31.50	3/20/11	1:07	31.76
3/19/11	21:36	30.35	3/19/11	22:29	30.82	3/19/11	23:22	31.20	3/20/11	0:15	31.50	3/20/11	1:08	31.76
3/19/11	21:37	30.35	3/19/11	22:30	30.83	3/19/11	23:23	31.20	3/20/11	0:16	31.51	3/20/11	1:09	31.78
3/19/11	21:38	30.37	3/19/11	22:31	30.83	3/19/11	23:24	31.20	3/20/11	0:17	31.51	3/20/11	1:10	31.78
3/19/11	21:39	30.37	3/19/11	22:32	30.83	3/19/11	23:25	31.20	3/20/11	0:18	31.53	3/20/11	1:11	31.80
3/19/11	21:40	30.39	3/19/11	22:33	30.85	3/19/11	23:26	31.22	3/20/11	0:19	31.53	3/20/11	1:12	31.80
3/19/11	21:41	30.40	3/19/11	22:34	30.85	3/19/11	23:27	31.22	3/20/11	0:20	31.53	3/20/11	1:13	31.80
3/19/11	21:42	30.40	3/19/11	22:35	30.85	3/19/11	23:28	31.23	3/20/11	0:21	31.53	3/20/11	1:14	31.80
3/19/11	21:43	30.42	3/19/11	22:36	30.88	3/19/11	23:29	31.23	3/20/11	0:22	31.53	3/20/11	1:15	31.80
3/19/11	21:44	30.42	3/19/11	22:37	30.88	3/19/11	23:30	31.25	3/20/11	0:23	31.55	3/20/11	1:16	31.80
3/19/11	21:45	30.44	3/19/11	22:38	30.88	3/19/11	23:31	31.25	3/20/11	0:24	31.55	3/20/11	1:17	31.80
3/19/11	21:46	30.44	3/19/11	22:39	30.90	3/19/11	23:32	31.27	3/20/11	0:25	31.56	3/20/11	1:18	31.80
3/19/11	21:47	30.45	3/19/11	22:40	30.90	3/19/11	23:33	31.27	3/20/11	0:26	31.56	3/20/11	1:19	31.81
3/19/11	21:48	30.47	3/19/11	22:41	30.92	3/19/11	23:34	31.27	3/20/11	0:27	31.56	3/20/11	1:20	31.83
3/19/11	21:49	30.47	3/19/11	22:42	30.92	3/19/11	23:35	31.27	3/20/11	0:28	31.58	3/20/11	1:21	31.83

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	1:22	31.83	3/20/11	2:15	32.06	3/20/11	3:08	32.21	3/20/11	4:01	32.31	3/20/11	4:54	32.43
3/20/11	1:23	31.83	3/20/11	2:16	32.06	3/20/11	3:09	32.21	3/20/11	4:02	32.33	3/20/11	4:55	32.43
3/20/11	1:24	31.85	3/20/11	2:17	32.06	3/20/11	3:10	32.21	3/20/11	4:03	32.31	3/20/11	4:56	32.44
3/20/11	1:25	31.85	3/20/11	2:18	32.06	3/20/11	3:11	32.21	3/20/11	4:04	32.33	3/20/11	4:57	32.44
3/20/11	1:26	31.86	3/20/11	2:19	32.06	3/20/11	3:12	32.21	3/20/11	4:05	32.34	3/20/11	4:58	32.44
3/20/11	1:27	31.86	3/20/11	2:20	32.06	3/20/11	3:13	32.21	3/20/11	4:06	32.34	3/20/11	4:59	32.44
3/20/11	1:28	31.86	3/20/11	2:21	32.06	3/20/11	3:14	32.23	3/20/11	4:07	32.33	3/20/11	5:00	32.44
3/20/11	1:29	31.86	3/20/11	2:22	32.06	3/20/11	3:15	32.23	3/20/11	4:08	32.34	3/20/11	5:01	32.44
3/20/11	1:30	31.86	3/20/11	2:23	32.08	3/20/11	3:16	32.23	3/20/11	4:09	32.34	3/20/11	5:02	32.44
3/20/11	1:31	31.86	3/20/11	2:24	32.08	3/20/11	3:17	32.23	3/20/11	4:10	32.34	3/20/11	5:03	32.44
3/20/11	1:32	31.88	3/20/11	2:25	32.08	3/20/11	3:18	32.23	3/20/11	4:11	32.34	3/20/11	5:04	32.44
3/20/11	1:33	31.90	3/20/11	2:26	32.09	3/20/11	3:19	32.23	3/20/11	4:12	32.34	3/20/11	5:05	32.44
3/20/11	1:34	31.90	3/20/11	2:27	32.09	3/20/11	3:20	32.24	3/20/11	4:13	32.34	3/20/11	5:06	32.44
3/20/11	1:35	31.90	3/20/11	2:28	32.09	3/20/11	3:21	32.24	3/20/11	4:14	32.36	3/20/11	5:07	32.44
3/20/11	1:36	31.90	3/20/11	2:29	32.09	3/20/11	3:22	32.24	3/20/11	4:15	32.36	3/20/11	5:08	32.46
3/20/11	1:37	31.90	3/20/11	2:30	32.09	3/20/11	3:23	32.24	3/20/11	4:16	32.36	3/20/11	5:09	32.44
3/20/11	1:38	31.90	3/20/11	2:31	32.11	3/20/11	3:24	32.24	3/20/11	4:17	32.36	3/20/11	5:10	32.44
3/20/11	1:39	31.91	3/20/11	2:32	32.11	3/20/11	3:25	32.24	3/20/11	4:18	32.36	3/20/11	5:11	32.44
3/20/11	1:40	31.91	3/20/11	2:33	32.11	3/20/11	3:26	32.24	3/20/11	4:19	32.36	3/20/11	5:12	32.44
3/20/11	1:41	31.91	3/20/11	2:34	32.11	3/20/11	3:27	32.24	3/20/11	4:20	32.36	3/20/11	5:13	32.46
3/20/11	1:42	31.93	3/20/11	2:35	32.13	3/20/11	3:28	32.24	3/20/11	4:21	32.36	3/20/11	5:14	32.44
3/20/11	1:43	31.93	3/20/11	2:36	32.13	3/20/11	3:29	32.24	3/20/11	4:22	32.38	3/20/11	5:15	32.44
3/20/11	1:44	31.93	3/20/11	2:37	32.13	3/20/11	3:30	32.26	3/20/11	4:23	32.36	3/20/11	5:16	32.44
3/20/11	1:45	31.93	3/20/11	2:38	32.13	3/20/11	3:31	32.26	3/20/11	4:24	32.38	3/20/11	5:17	32.46
3/20/11	1:46	31.93	3/20/11	2:39	32.13	3/20/11	3:32	32.26	3/20/11	4:25	32.38	3/20/11	5:18	32.46
3/20/11	1:47	31.93	3/20/11	2:40	32.13	3/20/11	3:33	32.26	3/20/11	4:26	32.38	3/20/11	5:19	32.46
3/20/11	1:48	31.93	3/20/11	2:41	32.13	3/20/11	3:34	32.28	3/20/11	4:27	32.38	3/20/11	5:20	32.46
3/20/11	1:49	31.95	3/20/11	2:42	32.14	3/20/11	3:35	32.28	3/20/11	4:28	32.38	3/20/11	5:21	32.46
3/20/11	1:50	31.95	3/20/11	2:43	32.14	3/20/11	3:36	32.28	3/20/11	4:29	32.38	3/20/11	5:22	32.46
3/20/11	1:51	31.96	3/20/11	2:44	32.14	3/20/11	3:37	32.28	3/20/11	4:30	32.38	3/20/11	5:23	32.46
3/20/11	1:52	31.96	3/20/11	2:45	32.16	3/20/11	3:38	32.28	3/20/11	4:31	32.38	3/20/11	5:24	32.46
3/20/11	1:53	31.96	3/20/11	2:46	32.16	3/20/11	3:39	32.28	3/20/11	4:32	32.38	3/20/11	5:25	32.48
3/20/11	1:54	31.96	3/20/11	2:47	32.16	3/20/11	3:40	32.28	3/20/11	4:33	32.38	3/20/11	5:26	32.48
3/20/11	1:55	31.98	3/20/11	2:48	32.16	3/20/11	3:41	32.29	3/20/11	4:34	32.38	3/20/11	5:27	32.48
3/20/11	1:56	31.98	3/20/11	2:49	32.16	3/20/11	3:42	32.29	3/20/11	4:35	32.38	3/20/11	5:28	32.48
3/20/11	1:57	31.98	3/20/11	2:50	32.16	3/20/11	3:43	32.29	3/20/11	4:36	32.38	3/20/11	5:29	32.48
3/20/11	1:58	31.99	3/20/11	2:51	32.18	3/20/11	3:44	32.29	3/20/11	4:37	32.39	3/20/11	5:30	32.48
3/20/11	1:59	31.99	3/20/11	2:52	32.18	3/20/11	3:45	32.29	3/20/11	4:38	32.41	3/20/11	5:31	32.48
3/20/11	2:00	31.99	3/20/11	2:53	32.18	3/20/11	3:46	32.31	3/20/11	4:39	32.39	3/20/11	5:32	32.48
3/20/11	2:01	31.99	3/20/11	2:54	32.18	3/20/11	3:47	32.31	3/20/11	4:40	32.39	3/20/11	5:33	32.48
3/20/11	2:02	31.99	3/20/11	2:55	32.18	3/20/11	3:48	32.31	3/20/11	4:41	32.41	3/20/11	5:34	32.48
3/20/11	2:03	31.99	3/20/11	2:56	32.19	3/20/11	3:49	32.31	3/20/11	4:42	32.41	3/20/11	5:35	32.48
3/20/11	2:04	31.99	3/20/11	2:57	32.19	3/20/11	3:50	32.31	3/20/11	4:43	32.41	3/20/11	5:36	32.49
3/20/11	2:05	32.01	3/20/11	2:58	32.19	3/20/11	3:51	32.31	3/20/11	4:44	32.41	3/20/11	5:37	32.48
3/20/11	2:06	32.01	3/20/11	2:59	32.19	3/20/11	3:52	32.31	3/20/11	4:45	32.41	3/20/11	5:38	32.49
3/20/11	2:07	32.01	3/20/11	3:00	32.18	3/20/11	3:53	32.31	3/20/11	4:46	32.41	3/20/11	5:39	32.49
3/20/11	2:08	32.03	3/20/11	3:01	32.18	3/20/11	3:54	32.31	3/20/11	4:47	32.41	3/20/11	5:40	32.49
3/20/11	2:09	32.03	3/20/11	3:02	32.18	3/20/11	3:55	32.31	3/20/11	4:48	32.43	3/20/11	5:41	32.49
3/20/11	2:10	32.03	3/20/11	3:03	32.18	3/20/11	3:56	32.31	3/20/11	4:49	32.43	3/20/11	5:42	32.49
3/20/11	2:11	32.03	3/20/11	3:04	32.18	3/20/11	3:57	32.31	3/20/11	4:50	32.41	3/20/11	5:43	32.49
3/20/11	2:12	32.03	3/20/11	3:05	32.19	3/20/11	3:58	32.31	3/20/11	4:51	32.41	3/20/11	5:44	32.49
3/20/11	2:13	32.04	3/20/11	3:06	32.19	3/20/11	3:59	32.31	3/20/11	4:52	32.43	3/20/11	5:45	32.51
3/20/11	2:14	32.04	3/20/11	3:07	32.21	3/20/11	4:00	32.31	3/20/11	4:53	32.43	3/20/11	5:46	32.49

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	5:47	32.49	3/20/11	6:40	32.51	3/20/11	7:33	32.62	3/20/11	8:26	32.79	3/20/11	9:19	32.92
3/20/11	5:48	32.51	3/20/11	6:41	32.51	3/20/11	7:34	32.62	3/20/11	8:27	32.79	3/20/11	9:20	32.92
3/20/11	5:49	32.51	3/20/11	6:42	32.51	3/20/11	7:35	32.64	3/20/11	8:28	32.79	3/20/11	9:21	32.92
3/20/11	5:50	32.51	3/20/11	6:43	32.51	3/20/11	7:36	32.64	3/20/11	8:29	32.79	3/20/11	9:22	32.92
3/20/11	5:51	32.51	3/20/11	6:44	32.51	3/20/11	7:37	32.64	3/20/11	8:30	32.79	3/20/11	9:23	32.92
3/20/11	5:52	32.51	3/20/11	6:45	32.51	3/20/11	7:38	32.66	3/20/11	8:31	32.81	3/20/11	9:24	32.92
3/20/11	5:53	32.51	3/20/11	6:46	32.51	3/20/11	7:39	32.66	3/20/11	8:32	32.81	3/20/11	9:25	32.92
3/20/11	5:54	32.51	3/20/11	6:47	32.51	3/20/11	7:40	32.66	3/20/11	8:33	32.81	3/20/11	9:26	32.92
3/20/11	5:55	32.51	3/20/11	6:48	32.51	3/20/11	7:41	32.66	3/20/11	8:34	32.81	3/20/11	9:27	32.92
3/20/11	5:56	32.51	3/20/11	6:49	32.51	3/20/11	7:42	32.67	3/20/11	8:35	32.81	3/20/11	9:28	32.92
3/20/11	5:57	32.51	3/20/11	6:50	32.51	3/20/11	7:43	32.67	3/20/11	8:36	32.81	3/20/11	9:29	32.92
3/20/11	5:58	32.51	3/20/11	6:51	32.51	3/20/11	7:44	32.67	3/20/11	8:37	32.81	3/20/11	9:30	32.92
3/20/11	5:59	32.51	3/20/11	6:52	32.51	3/20/11	7:45	32.67	3/20/11	8:38	32.81	3/20/11	9:31	32.92
3/20/11	6:00	32.54	3/20/11	6:53	32.53	3/20/11	7:46	32.67	3/20/11	8:39	32.81	3/20/11	9:32	32.92
3/20/11	6:01	32.53	3/20/11	6:54	32.53	3/20/11	7:47	32.67	3/20/11	8:40	32.82	3/20/11	9:33	32.92
3/20/11	6:02	32.54	3/20/11	6:55	32.53	3/20/11	7:48	32.69	3/20/11	8:41	32.82	3/20/11	9:34	32.94
3/20/11	6:03	32.54	3/20/11	6:56	32.53	3/20/11	7:49	32.69	3/20/11	8:42	32.82	3/20/11	9:35	32.92
3/20/11	6:04	32.54	3/20/11	6:57	32.53	3/20/11	7:50	32.69	3/20/11	8:43	32.82	3/20/11	9:36	32.94
3/20/11	6:05	32.53	3/20/11	6:58	32.53	3/20/11	7:51	32.71	3/20/11	8:44	32.82	3/20/11	9:37	32.94
3/20/11	6:06	32.54	3/20/11	6:59	32.53	3/20/11	7:52	32.71	3/20/11	8:45	32.82	3/20/11	9:38	32.96
3/20/11	6:07	32.54	3/20/11	7:00	32.54	3/20/11	7:53	32.71	3/20/11	8:46	32.82	3/20/11	9:39	32.96
3/20/11	6:08	32.54	3/20/11	7:01	32.54	3/20/11	7:54	32.71	3/20/11	8:47	32.82	3/20/11	9:40	32.96
3/20/11	6:09	32.54	3/20/11	7:02	32.56	3/20/11	7:55	32.71	3/20/11	8:48	32.82	3/20/11	9:41	32.96
3/20/11	6:10	32.54	3/20/11	7:03	32.56	3/20/11	7:56	32.71	3/20/11	8:49	32.82	3/20/11	9:42	32.96
3/20/11	6:11	32.54	3/20/11	7:04	32.56	3/20/11	7:57	32.71	3/20/11	8:50	32.82	3/20/11	9:43	32.96
3/20/11	6:12	32.56	3/20/11	7:05	32.56	3/20/11	7:58	32.72	3/20/11	8:51	32.84	3/20/11	9:44	32.96
3/20/11	6:13	32.56	3/20/11	7:06	32.57	3/20/11	7:59	32.72	3/20/11	8:52	32.82	3/20/11	9:45	32.97
3/20/11	6:14	32.56	3/20/11	7:07	32.57	3/20/11	8:00	32.74	3/20/11	8:53	32.84	3/20/11	9:46	32.97
3/20/11	6:15	32.56	3/20/11	7:08	32.57	3/20/11	8:01	32.74	3/20/11	8:54	32.84	3/20/11	9:47	32.97
3/20/11	6:16	32.56	3/20/11	7:09	32.57	3/20/11	8:02	32.74	3/20/11	8:55	32.84	3/20/11	9:48	32.97
3/20/11	6:17	32.56	3/20/11	7:10	32.57	3/20/11	8:03	32.74	3/20/11	8:56	32.84	3/20/11	9:49	32.97
3/20/11	6:18	32.56	3/20/11	7:11	32.57	3/20/11	8:04	32.76	3/20/11	8:57	32.86	3/20/11	9:50	32.97
3/20/11	6:19	32.56	3/20/11	7:12	32.57	3/20/11	8:05	32.76	3/20/11	8:58	32.86	3/20/11	9:51	32.97
3/20/11	6:20	32.56	3/20/11	7:13	32.57	3/20/11	8:06	32.76	3/20/11	8:59	32.84	3/20/11	9:52	32.97
3/20/11	6:21	32.56	3/20/11	7:14	32.59	3/20/11	8:07	32.76	3/20/11	9:00	32.89	3/20/11	9:53	32.99
3/20/11	6:22	32.56	3/20/11	7:15	32.59	3/20/11	8:08	32.76	3/20/11	9:01	32.89	3/20/11	9:54	32.99
3/20/11	6:23	32.56	3/20/11	7:16	32.59	3/20/11	8:09	32.76	3/20/11	9:02	32.89	3/20/11	9:55	32.99
3/20/11	6:24	32.56	3/20/11	7:17	32.59	3/20/11	8:10	32.76	3/20/11	9:03	32.89	3/20/11	9:56	32.99
3/20/11	6:25	32.56	3/20/11	7:18	32.61	3/20/11	8:11	32.76	3/20/11	9:04	32.89	3/20/11	9:57	32.99
3/20/11	6:26	32.56	3/20/11	7:19	32.61	3/20/11	8:12	32.76	3/20/11	9:05	32.89	3/20/11	9:58	32.99
3/20/11	6:27	32.54	3/20/11	7:20	32.61	3/20/11	8:13	32.76	3/20/11	9:06	32.89	3/20/11	9:59	32.99
3/20/11	6:28	32.54	3/20/11	7:21	32.61	3/20/11	8:14	32.77	3/20/11	9:07	32.89	3/20/11	10:00	32.99
3/20/11	6:29	32.54	3/20/11	7:22	32.61	3/20/11	8:15	32.76	3/20/11	9:08	32.89	3/20/11	10:01	32.99
3/20/11	6:30	32.53	3/20/11	7:23	32.61	3/20/11	8:16	32.76	3/20/11	9:09	32.89	3/20/11	10:02	32.99
3/20/11	6:31	32.53	3/20/11	7:24	32.61	3/20/11	8:17	32.77	3/20/11	9:10	32.91	3/20/11	10:03	32.99
3/20/11	6:32	32.53	3/20/11	7:25	32.61	3/20/11	8:18	32.76	3/20/11	9:11	32.91	3/20/11	10:04	32.99
3/20/11	6:33	32.53	3/20/11	7:26	32.61	3/20/11	8:19	32.77	3/20/11	9:12	32.91	3/20/11	10:05	33.01
3/20/11	6:34	32.53	3/20/11	7:27	32.61	3/20/11	8:20	32.79	3/20/11	9:13	32.91	3/20/11	10:06	33.01
3/20/11	6:35	32.53	3/20/11	7:28	32.61	3/20/11	8:21	32.77	3/20/11	9:14	32.91	3/20/11	10:07	33.01
3/20/11	6:36	32.51	3/20/11	7:29	32.61	3/20/11	8:22	32.77	3/20/11	9:15	32.91	3/20/11	10:08	33.01
3/20/11	6:37	32.51	3/20/11	7:30	32.61	3/20/11	8:23	32.79	3/20/11	9:16	32.91	3/20/11	10:09	33.01
3/20/11	6:38	32.51	3/20/11	7:31	32.62	3/20/11	8:24	32.79	3/20/11	9:17	32.91	3/20/11	10:10	33.01
3/20/11	6:39	32.51	3/20/11	7:32	32.62	3/20/11	8:25	32.79	3/20/11	9:18	32.92	3/20/11	10:11	33.02

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	10:12	33.02	3/20/11	11:05	33.09	3/20/11	11:58	33.17	3/20/11	12:51	33.24	3/20/11	13:44	33.27
3/20/11	10:13	33.02	3/20/11	11:06	33.09	3/20/11	11:59	33.17	3/20/11	12:52	33.24	3/20/11	13:45	33.29
3/20/11	10:14	33.02	3/20/11	11:07	33.10	3/20/11	12:00	33.17	3/20/11	12:53	33.25	3/20/11	13:46	33.29
3/20/11	10:15	33.02	3/20/11	11:08	33.10	3/20/11	12:01	33.17	3/20/11	12:54	33.24	3/20/11	13:47	33.29
3/20/11	10:16	33.02	3/20/11	11:09	33.10	3/20/11	12:02	33.17	3/20/11	12:55	33.25	3/20/11	13:48	33.29
3/20/11	10:17	33.02	3/20/11	11:10	33.10	3/20/11	12:03	33.17	3/20/11	12:56	33.24	3/20/11	13:49	33.30
3/20/11	10:18	33.02	3/20/11	11:11	33.10	3/20/11	12:04	33.17	3/20/11	12:57	33.25	3/20/11	13:50	33.30
3/20/11	10:19	33.02	3/20/11	11:12	33.10	3/20/11	12:05	33.17	3/20/11	12:58	33.25	3/20/11	13:51	33.30
3/20/11	10:20	33.02	3/20/11	11:13	33.10	3/20/11	12:06	33.17	3/20/11	12:59	33.25	3/20/11	13:52	33.30
3/20/11	10:21	33.04	3/20/11	11:14	33.10	3/20/11	12:07	33.17	3/20/11	13:00	33.22	3/20/11	13:53	33.30
3/20/11	10:22	33.02	3/20/11	11:15	33.10	3/20/11	12:08	33.17	3/20/11	13:01	33.22	3/20/11	13:54	33.30
3/20/11	10:23	33.04	3/20/11	11:16	33.10	3/20/11	12:09	33.19	3/20/11	13:02	33.24	3/20/11	13:55	33.30
3/20/11	10:24	33.04	3/20/11	11:17	33.10	3/20/11	12:10	33.17	3/20/11	13:03	33.24	3/20/11	13:56	33.30
3/20/11	10:25	33.04	3/20/11	11:18	33.10	3/20/11	12:11	33.17	3/20/11	13:04	33.24	3/20/11	13:57	33.30
3/20/11	10:26	33.04	3/20/11	11:19	33.10	3/20/11	12:12	33.19	3/20/11	13:05	33.24	3/20/11	13:58	33.30
3/20/11	10:27	33.06	3/20/11	11:20	33.12	3/20/11	12:13	33.19	3/20/11	13:06	33.24	3/20/11	13:59	33.30
3/20/11	10:28	33.06	3/20/11	11:21	33.12	3/20/11	12:14	33.19	3/20/11	13:07	33.24	3/20/11	14:00	33.27
3/20/11	10:29	33.06	3/20/11	11:22	33.12	3/20/11	12:15	33.19	3/20/11	13:08	33.24	3/20/11	14:01	33.27
3/20/11	10:30	33.06	3/20/11	11:23	33.12	3/20/11	12:16	33.19	3/20/11	13:09	33.24	3/20/11	14:02	33.27
3/20/11	10:31	33.06	3/20/11	11:24	33.12	3/20/11	12:17	33.20	3/20/11	13:10	33.24	3/20/11	14:03	33.29
3/20/11	10:32	33.06	3/20/11	11:25	33.12	3/20/11	12:18	33.20	3/20/11	13:11	33.24	3/20/11	14:04	33.29
3/20/11	10:33	33.06	3/20/11	11:26	33.12	3/20/11	12:19	33.20	3/20/11	13:12	33.24	3/20/11	14:05	33.29
3/20/11	10:34	33.06	3/20/11	11:27	33.12	3/20/11	12:20	33.20	3/20/11	13:13	33.24	3/20/11	14:06	33.29
3/20/11	10:35	33.06	3/20/11	11:28	33.14	3/20/11	12:21	33.20	3/20/11	13:14	33.24	3/20/11	14:07	33.29
3/20/11	10:36	33.06	3/20/11	11:29	33.12	3/20/11	12:22	33.20	3/20/11	13:15	33.25	3/20/11	14:08	33.29
3/20/11	10:37	33.06	3/20/11	11:30	33.14	3/20/11	12:23	33.20	3/20/11	13:16	33.25	3/20/11	14:09	33.29
3/20/11	10:38	33.06	3/20/11	11:31	33.14	3/20/11	12:24	33.20	3/20/11	13:17	33.25	3/20/11	14:10	33.29
3/20/11	10:39	33.06	3/20/11	11:32	33.14	3/20/11	12:25	33.20	3/20/11	13:18	33.25	3/20/11	14:11	33.29
3/20/11	10:40	33.06	3/20/11	11:33	33.14	3/20/11	12:26	33.20	3/20/11	13:19	33.25	3/20/11	14:12	33.29
3/20/11	10:41	33.07	3/20/11	11:34	33.14	3/20/11	12:27	33.20	3/20/11	13:20	33.25	3/20/11	14:13	33.29
3/20/11	10:42	33.06	3/20/11	11:35	33.14	3/20/11	12:28	33.20	3/20/11	13:21	33.25	3/20/11	14:14	33.29
3/20/11	10:43	33.07	3/20/11	11:36	33.14	3/20/11	12:29	33.22	3/20/11	13:22	33.25	3/20/11	14:15	33.30
3/20/11	10:44	33.07	3/20/11	11:37	33.14	3/20/11	12:30	33.22	3/20/11	13:23	33.25	3/20/11	14:16	33.30
3/20/11	10:45	33.07	3/20/11	11:38	33.14	3/20/11	12:31	33.20	3/20/11	13:24	33.25	3/20/11	14:17	33.30
3/20/11	10:46	33.07	3/20/11	11:39	33.14	3/20/11	12:32	33.22	3/20/11	13:25	33.25	3/20/11	14:18	33.29
3/20/11	10:47	33.07	3/20/11	11:40	33.14	3/20/11	12:33	33.22	3/20/11	13:26	33.27	3/20/11	14:19	33.30
3/20/11	10:48	33.09	3/20/11	11:41	33.15	3/20/11	12:34	33.22	3/20/11	13:27	33.27	3/20/11	14:20	33.30
3/20/11	10:49	33.07	3/20/11	11:42	33.14	3/20/11	12:35	33.22	3/20/11	13:28	33.27	3/20/11	14:21	33.30
3/20/11	10:50	33.09	3/20/11	11:43	33.15	3/20/11	12:36	33.22	3/20/11	13:29	33.27	3/20/11	14:22	33.30
3/20/11	10:51	33.09	3/20/11	11:44	33.14	3/20/11	12:37	33.24	3/20/11	13:30	33.27	3/20/11	14:23	33.30
3/20/11	10:52	33.09	3/20/11	11:45	33.15	3/20/11	12:38	33.24	3/20/11	13:31	33.27	3/20/11	14:24	33.30
3/20/11	10:53	33.09	3/20/11	11:46	33.15	3/20/11	12:39	33.24	3/20/11	13:32	33.27	3/20/11	14:25	33.30
3/20/11	10:54	33.09	3/20/11	11:47	33.15	3/20/11	12:40	33.24	3/20/11	13:33	33.27	3/20/11	14:26	33.30
3/20/11	10:55	33.09	3/20/11	11:48	33.15	3/20/11	12:41	33.24	3/20/11	13:34	33.27	3/20/11	14:27	33.30
3/20/11	10:56	33.09	3/20/11	11:49	33.15	3/20/11	12:42	33.24	3/20/11	13:35	33.27	3/20/11	14:28	33.30
3/20/11	10:57	33.09	3/20/11	11:50	33.15	3/20/11	12:43	33.24	3/20/11	13:36	33.27	3/20/11	14:29	33.30
3/20/11	10:58	33.09	3/20/11	11:51	33.15	3/20/11	12:44	33.24	3/20/11	13:37	33.27	3/20/11	14:30	33.30
3/20/11	10:59	33.10	3/20/11	11:52	33.15	3/20/11	12:45	33.24	3/20/11	13:38	33.27	3/20/11	14:31	33.30
3/20/11	11:00	33.09	3/20/11	11:53	33.17	3/20/11	12:46	33.24	3/20/11	13:39	33.27	3/20/11	14:32	33.30
3/20/11	11:01	33.09	3/20/11	11:54	33.17	3/20/11	12:47	33.24	3/20/11	13:40	33.27	3/20/11	14:33	33.30
3/20/11	11:02	33.09	3/20/11	11:55	33.17	3/20/11	12:48	33.24	3/20/11	13:41	33.27	3/20/11	14:34	33.30
3/20/11	11:03	33.09	3/20/11	11:56	33.17	3/20/11	12:49	33.24	3/20/11	13:42	33.29	3/20/11	14:35	33.30
3/20/11	11:04	33.09	3/20/11	11:57	33.17	3/20/11	12:50	33.24	3/20/11	13:43	33.29	3/20/11	14:36	33.30

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	14:37	33.32	3/20/11	15:30	33.35	3/20/11	16:23	33.40	3/20/11	17:16	33.42	3/20/11	18:09	33.45
3/20/11	14:38	33.32	3/20/11	15:31	33.35	3/20/11	16:24	33.40	3/20/11	17:17	33.42	3/20/11	18:10	33.45
3/20/11	14:39	33.32	3/20/11	15:32	33.35	3/20/11	16:25	33.40	3/20/11	17:18	33.42	3/20/11	18:11	33.45
3/20/11	14:40	33.32	3/20/11	15:33	33.35	3/20/11	16:26	33.40	3/20/11	17:19	33.42	3/20/11	18:12	33.44
3/20/11	14:41	33.32	3/20/11	15:34	33.35	3/20/11	16:27	33.40	3/20/11	17:20	33.42	3/20/11	18:13	33.45
3/20/11	14:42	33.32	3/20/11	15:35	33.35	3/20/11	16:28	33.40	3/20/11	17:21	33.42	3/20/11	18:14	33.45
3/20/11	14:43	33.32	3/20/11	15:36	33.35	3/20/11	16:29	33.40	3/20/11	17:22	33.42	3/20/11	18:15	33.45
3/20/11	14:44	33.32	3/20/11	15:37	33.35	3/20/11	16:30	33.40	3/20/11	17:23	33.42	3/20/11	18:16	33.45
3/20/11	14:45	33.32	3/20/11	15:38	33.35	3/20/11	16:31	33.40	3/20/11	17:24	33.42	3/20/11	18:17	33.45
3/20/11	14:46	33.34	3/20/11	15:39	33.35	3/20/11	16:32	33.40	3/20/11	17:25	33.42	3/20/11	18:18	33.45
3/20/11	14:47	33.32	3/20/11	15:40	33.35	3/20/11	16:33	33.40	3/20/11	17:26	33.42	3/20/11	18:19	33.45
3/20/11	14:48	33.32	3/20/11	15:41	33.35	3/20/11	16:34	33.40	3/20/11	17:27	33.42	3/20/11	18:20	33.45
3/20/11	14:49	33.32	3/20/11	15:42	33.35	3/20/11	16:35	33.40	3/20/11	17:28	33.42	3/20/11	18:21	33.45
3/20/11	14:50	33.32	3/20/11	15:43	33.35	3/20/11	16:36	33.40	3/20/11	17:29	33.44	3/20/11	18:22	33.45
3/20/11	14:51	33.34	3/20/11	15:44	33.35	3/20/11	16:37	33.40	3/20/11	17:30	33.44	3/20/11	18:23	33.45
3/20/11	14:52	33.34	3/20/11	15:45	33.35	3/20/11	16:38	33.40	3/20/11	17:31	33.44	3/20/11	18:24	33.45
3/20/11	14:53	33.34	3/20/11	15:46	33.35	3/20/11	16:39	33.42	3/20/11	17:32	33.44	3/20/11	18:25	33.45
3/20/11	14:54	33.34	3/20/11	15:47	33.35	3/20/11	16:40	33.42	3/20/11	17:33	33.44	3/20/11	18:26	33.45
3/20/11	14:55	33.34	3/20/11	15:48	33.35	3/20/11	16:41	33.42	3/20/11	17:34	33.44	3/20/11	18:27	33.45
3/20/11	14:56	33.34	3/20/11	15:49	33.35	3/20/11	16:42	33.42	3/20/11	17:35	33.44	3/20/11	18:28	33.45
3/20/11	14:57	33.34	3/20/11	15:50	33.35	3/20/11	16:43	33.42	3/20/11	17:36	33.44	3/20/11	18:29	33.45
3/20/11	14:58	33.34	3/20/11	15:51	33.35	3/20/11	16:44	33.42	3/20/11	17:37	33.44	3/20/11	18:30	33.45
3/20/11	14:59	33.34	3/20/11	15:52	33.35	3/20/11	16:45	33.42	3/20/11	17:38	33.44	3/20/11	18:31	33.45
3/20/11	15:00	33.32	3/20/11	15:53	33.35	3/20/11	16:46	33.42	3/20/11	17:39	33.44	3/20/11	18:32	33.45
3/20/11	15:01	33.32	3/20/11	15:54	33.35	3/20/11	16:47	33.42	3/20/11	17:40	33.44	3/20/11	18:33	33.45
3/20/11	15:02	33.32	3/20/11	15:55	33.35	3/20/11	16:48	33.42	3/20/11	17:41	33.44	3/20/11	18:34	33.45
3/20/11	15:03	33.32	3/20/11	15:56	33.35	3/20/11	16:49	33.42	3/20/11	17:42	33.44	3/20/11	18:35	33.45
3/20/11	15:04	33.34	3/20/11	15:57	33.37	3/20/11	16:50	33.44	3/20/11	17:43	33.44	3/20/11	18:36	33.47
3/20/11	15:05	33.34	3/20/11	15:58	33.37	3/20/11	16:51	33.44	3/20/11	17:44	33.44	3/20/11	18:37	33.47
3/20/11	15:06	33.34	3/20/11	15:59	33.37	3/20/11	16:52	33.44	3/20/11	17:45	33.44	3/20/11	18:38	33.47
3/20/11	15:07	33.32	3/20/11	16:00	33.35	3/20/11	16:53	33.44	3/20/11	17:46	33.44	3/20/11	18:39	33.47
3/20/11	15:08	33.34	3/20/11	16:01	33.37	3/20/11	16:54	33.44	3/20/11	17:47	33.44	3/20/11	18:40	33.47
3/20/11	15:09	33.34	3/20/11	16:02	33.37	3/20/11	16:55	33.44	3/20/11	17:48	33.44	3/20/11	18:41	33.47
3/20/11	15:10	33.34	3/20/11	16:03	33.37	3/20/11	16:56	33.44	3/20/11	17:49	33.44	3/20/11	18:42	33.45
3/20/11	15:11	33.34	3/20/11	16:04	33.37	3/20/11	16:57	33.44	3/20/11	17:50	33.44	3/20/11	18:43	33.47
3/20/11	15:12	33.34	3/20/11	16:05	33.37	3/20/11	16:58	33.44	3/20/11	17:51	33.44	3/20/11	18:44	33.47
3/20/11	15:13	33.34	3/20/11	16:06	33.37	3/20/11	16:59	33.44	3/20/11	17:52	33.44	3/20/11	18:45	33.47
3/20/11	15:14	33.34	3/20/11	16:07	33.37	3/20/11	17:00	33.40	3/20/11	17:53	33.44	3/20/11	18:46	33.47
3/20/11	15:15	33.34	3/20/11	16:08	33.37	3/20/11	17:01	33.40	3/20/11	17:54	33.44	3/20/11	18:47	33.47
3/20/11	15:16	33.34	3/20/11	16:09	33.37	3/20/11	17:02	33.40	3/20/11	17:55	33.44	3/20/11	18:48	33.47
3/20/11	15:17	33.34	3/20/11	16:10	33.37	3/20/11	17:03	33.40	3/20/11	17:56	33.44	3/20/11	18:49	33.47
3/20/11	15:18	33.35	3/20/11	16:11	33.37	3/20/11	17:04	33.40	3/20/11	17:57	33.44	3/20/11	18:50	33.47
3/20/11	15:19	33.35	3/20/11	16:12	33.39	3/20/11	17:05	33.40	3/20/11	17:58	33.44	3/20/11	18:51	33.47
3/20/11	15:20	33.35	3/20/11	16:13	33.39	3/20/11	17:06	33.40	3/20/11	17:59	33.44	3/20/11	18:52	33.47
3/20/11	15:21	33.35	3/20/11	16:14	33.39	3/20/11	17:07	33.40	3/20/11	18:00	33.44	3/20/11	18:53	33.47
3/20/11	15:22	33.35	3/20/11	16:15	33.39	3/20/11	17:08	33.40	3/20/11	18:01	33.44	3/20/11	18:54	33.47
3/20/11	15:23	33.35	3/20/11	16:16	33.39	3/20/11	17:09	33.40	3/20/11	18:02	33.44	3/20/11	18:55	33.47
3/20/11	15:24	33.35	3/20/11	16:17	33.39	3/20/11	17:10	33.40	3/20/11	18:03	33.44	3/20/11	18:56	33.47
3/20/11	15:25	33.35	3/20/11	16:18	33.39	3/20/11	17:11	33.42	3/20/11	18:04	33.44	3/20/11	18:57	33.47
3/20/11	15:26	33.35	3/20/11	16:19	33.39	3/20/11	17:12	33.42	3/20/11	18:05	33.44	3/20/11	18:58	33.47
3/20/11	15:27	33.35	3/20/11	16:20	33.39	3/20/11	17:13	33.42	3/20/11	18:06	33.44	3/20/11	18:59	33.47
3/20/11	15:28	33.35	3/20/11	16:21	33.39	3/20/11	17:14	33.40	3/20/11	18:07	33.44	3/20/11	19:00	33.47
3/20/11	15:29	33.35	3/20/11	16:22	33.40	3/20/11	17:15	33.42	3/20/11	18:08	33.44	3/20/11	19:01	33.47

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	19:02	33.47	3/20/11	19:55	33.45	3/20/11	20:48	33.50	3/20/11	21:41	33.59	3/20/11	22:34	33.65
3/20/11	19:03	33.47	3/20/11	19:56	33.45	3/20/11	20:49	33.50	3/20/11	21:42	33.59	3/20/11	22:35	33.65
3/20/11	19:04	33.47	3/20/11	19:57	33.45	3/20/11	20:50	33.50	3/20/11	21:43	33.59	3/20/11	22:36	33.65
3/20/11	19:05	33.47	3/20/11	19:58	33.45	3/20/11	20:51	33.50	3/20/11	21:44	33.59	3/20/11	22:37	33.65
3/20/11	19:06	33.47	3/20/11	19:59	33.45	3/20/11	20:52	33.50	3/20/11	21:45	33.59	3/20/11	22:38	33.65
3/20/11	19:07	33.47	3/20/11	20:00	33.45	3/20/11	20:53	33.52	3/20/11	21:46	33.59	3/20/11	22:39	33.65
3/20/11	19:08	33.47	3/20/11	20:01	33.45	3/20/11	20:54	33.52	3/20/11	21:47	33.59	3/20/11	22:40	33.65
3/20/11	19:09	33.47	3/20/11	20:02	33.45	3/20/11	20:55	33.52	3/20/11	21:48	33.59	3/20/11	22:41	33.65
3/20/11	19:10	33.47	3/20/11	20:03	33.45	3/20/11	20:56	33.52	3/20/11	21:49	33.59	3/20/11	22:42	33.65
3/20/11	19:11	33.47	3/20/11	20:04	33.45	3/20/11	20:57	33.52	3/20/11	21:50	33.59	3/20/11	22:43	33.65
3/20/11	19:12	33.47	3/20/11	20:05	33.47	3/20/11	20:58	33.52	3/20/11	21:51	33.59	3/20/11	22:44	33.65
3/20/11	19:13	33.47	3/20/11	20:06	33.45	3/20/11	20:59	33.52	3/20/11	21:52	33.59	3/20/11	22:45	33.65
3/20/11	19:14	33.47	3/20/11	20:07	33.45	3/20/11	21:00	33.55	3/20/11	21:53	33.59	3/20/11	22:46	33.65
3/20/11	19:15	33.47	3/20/11	20:08	33.47	3/20/11	21:01	33.54	3/20/11	21:54	33.59	3/20/11	22:47	33.65
3/20/11	19:16	33.47	3/20/11	20:09	33.47	3/20/11	21:02	33.55	3/20/11	21:55	33.59	3/20/11	22:48	33.65
3/20/11	19:17	33.47	3/20/11	20:10	33.47	3/20/11	21:03	33.54	3/20/11	21:56	33.59	3/20/11	22:49	33.65
3/20/11	19:18	33.47	3/20/11	20:11	33.45	3/20/11	21:04	33.55	3/20/11	21:57	33.60	3/20/11	22:50	33.65
3/20/11	19:19	33.47	3/20/11	20:12	33.47	3/20/11	21:05	33.55	3/20/11	21:58	33.60	3/20/11	22:51	33.65
3/20/11	19:20	33.47	3/20/11	20:13	33.47	3/20/11	21:06	33.55	3/20/11	21:59	33.60	3/20/11	22:52	33.65
3/20/11	19:21	33.47	3/20/11	20:14	33.47	3/20/11	21:07	33.55	3/20/11	22:00	33.62	3/20/11	22:53	33.65
3/20/11	19:22	33.45	3/20/11	20:15	33.47	3/20/11	21:08	33.55	3/20/11	22:01	33.62	3/20/11	22:54	33.65
3/20/11	19:23	33.47	3/20/11	20:16	33.47	3/20/11	21:09	33.55	3/20/11	22:02	33.62	3/20/11	22:55	33.65
3/20/11	19:24	33.47	3/20/11	20:17	33.47	3/20/11	21:10	33.55	3/20/11	22:03	33.62	3/20/11	22:56	33.65
3/20/11	19:25	33.47	3/20/11	20:18	33.47	3/20/11	21:11	33.55	3/20/11	22:04	33.62	3/20/11	22:57	33.65
3/20/11	19:26	33.47	3/20/11	20:19	33.47	3/20/11	21:12	33.55	3/20/11	22:05	33.64	3/20/11	22:58	33.65
3/20/11	19:27	33.45	3/20/11	20:20	33.47	3/20/11	21:13	33.55	3/20/11	22:06	33.64	3/20/11	22:59	33.65
3/20/11	19:28	33.45	3/20/11	20:21	33.47	3/20/11	21:14	33.55	3/20/11	22:07	33.64	3/20/11	23:00	33.65
3/20/11	19:29	33.45	3/20/11	20:22	33.47	3/20/11	21:15	33.57	3/20/11	22:08	33.64	3/20/11	23:01	33.65
3/20/11	19:30	33.45	3/20/11	20:23	33.47	3/20/11	21:16	33.55	3/20/11	22:09	33.64	3/20/11	23:02	33.65
3/20/11	19:31	33.45	3/20/11	20:24	33.47	3/20/11	21:17	33.57	3/20/11	22:10	33.64	3/20/11	23:03	33.65
3/20/11	19:32	33.45	3/20/11	20:25	33.47	3/20/11	21:18	33.57	3/20/11	22:11	33.64	3/20/11	23:04	33.65
3/20/11	19:33	33.45	3/20/11	20:26	33.47	3/20/11	21:19	33.57	3/20/11	22:12	33.64	3/20/11	23:05	33.65
3/20/11	19:34	33.45	3/20/11	20:27	33.49	3/20/11	21:20	33.57	3/20/11	22:13	33.64	3/20/11	23:06	33.67
3/20/11	19:35	33.45	3/20/11	20:28	33.47	3/20/11	21:21	33.57	3/20/11	22:14	33.64	3/20/11	23:07	33.67
3/20/11	19:36	33.45	3/20/11	20:29	33.49	3/20/11	21:22	33.57	3/20/11	22:15	33.64	3/20/11	23:08	33.67
3/20/11	19:37	33.45	3/20/11	20:30	33.49	3/20/11	21:23	33.57	3/20/11	22:16	33.64	3/20/11	23:09	33.67
3/20/11	19:38	33.45	3/20/11	20:31	33.49	3/20/11	21:24	33.57	3/20/11	22:17	33.64	3/20/11	23:10	33.67
3/20/11	19:39	33.45	3/20/11	20:32	33.49	3/20/11	21:25	33.57	3/20/11	22:18	33.65	3/20/11	23:11	33.67
3/20/11	19:40	33.45	3/20/11	20:33	33.49	3/20/11	21:26	33.57	3/20/11	22:19	33.64	3/20/11	23:12	33.67
3/20/11	19:41	33.45	3/20/11	20:34	33.49	3/20/11	21:27	33.57	3/20/11	22:20	33.65	3/20/11	23:13	33.67
3/20/11	19:42	33.45	3/20/11	20:35	33.49	3/20/11	21:28	33.59	3/20/11	22:21	33.65	3/20/11	23:14	33.67
3/20/11	19:43	33.45	3/20/11	20:36	33.49	3/20/11	21:29	33.59	3/20/11	22:22	33.65	3/20/11	23:15	33.67
3/20/11	19:44	33.45	3/20/11	20:37	33.49	3/20/11	21:30	33.57	3/20/11	22:23	33.65	3/20/11	23:16	33.67
3/20/11	19:45	33.45	3/20/11	20:38	33.49	3/20/11	21:31	33.59	3/20/11	22:24	33.65	3/20/11	23:17	33.67
3/20/11	19:46	33.45	3/20/11	20:39	33.50	3/20/11	21:32	33.59	3/20/11	22:25	33.65	3/20/11	23:18	33.67
3/20/11	19:47	33.44	3/20/11	20:40	33.50	3/20/11	21:33	33.59	3/20/11	22:26	33.65	3/20/11	23:19	33.67
3/20/11	19:48	33.45	3/20/11	20:41	33.50	3/20/11	21:34	33.59	3/20/11	22:27	33.65	3/20/11	23:20	33.67
3/20/11	19:49	33.45	3/20/11	20:42	33.50	3/20/11	21:35	33.59	3/20/11	22:28	33.65	3/20/11	23:21	33.67
3/20/11	19:50	33.45	3/20/11	20:43	33.50	3/20/11	21:36	33.59	3/20/11	22:29	33.65	3/20/11	23:22	33.69
3/20/11	19:51	33.45	3/20/11	20:44	33.50	3/20/11	21:37	33.59	3/20/11	22:30	33.65	3/20/11	23:23	33.67
3/20/11	19:52	33.45	3/20/11	20:45	33.50	3/20/11	21:38	33.59	3/20/11	22:31	33.65	3/20/11	23:24	33.67
3/20/11	19:53	33.45	3/20/11	20:46	33.50	3/20/11	21:39	33.59	3/20/11	22:32	33.65	3/20/11	23:25	33.69
3/20/11	19:54	33.44	3/20/11	20:47	33.50	3/20/11	21:40	33.59	3/20/11	22:33	33.65	3/20/11	23:26	33.67

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	23:27	33.67	3/21/11	0:20	33.77	3/21/11	1:13	33.82	3/21/11	2:06	33.85	3/21/11	2:59	33.85
3/20/11	23:28	33.69	3/21/11	0:21	33.77	3/21/11	1:14	33.80	3/21/11	2:07	33.83	3/21/11	3:00	33.85
3/20/11	23:29	33.69	3/21/11	0:22	33.77	3/21/11	1:15	33.82	3/21/11	2:08	33.83	3/21/11	3:01	33.85
3/20/11	23:30	33.69	3/21/11	0:23	33.77	3/21/11	1:16	33.82	3/21/11	2:09	33.83	3/21/11	3:02	33.85
3/20/11	23:31	33.69	3/21/11	0:24	33.77	3/21/11	1:17	33.82	3/21/11	2:10	33.85	3/21/11	3:03	33.85
3/20/11	23:32	33.69	3/21/11	0:25	33.77	3/21/11	1:18	33.82	3/21/11	2:11	33.85	3/21/11	3:04	33.85
3/20/11	23:33	33.70	3/21/11	0:26	33.78	3/21/11	1:19	33.82	3/21/11	2:12	33.85	3/21/11	3:05	33.85
3/20/11	23:34	33.70	3/21/11	0:27	33.78	3/21/11	1:20	33.82	3/21/11	2:13	33.83	3/21/11	3:06	33.85
3/20/11	23:35	33.70	3/21/11	0:28	33.77	3/21/11	1:21	33.82	3/21/11	2:14	33.85	3/21/11	3:07	33.85
3/20/11	23:36	33.70	3/21/11	0:29	33.77	3/21/11	1:22	33.82	3/21/11	2:15	33.85	3/21/11	3:08	33.85
3/20/11	23:37	33.70	3/21/11	0:30	33.78	3/21/11	1:23	33.82	3/21/11	2:16	33.85	3/21/11	3:09	33.85
3/20/11	23:38	33.70	3/21/11	0:31	33.78	3/21/11	1:24	33.82	3/21/11	2:17	33.85	3/21/11	3:10	33.85
3/20/11	23:39	33.70	3/21/11	0:32	33.78	3/21/11	1:25	33.82	3/21/11	2:18	33.85	3/21/11	3:11	33.85
3/20/11	23:40	33.70	3/21/11	0:33	33.78	3/21/11	1:26	33.82	3/21/11	2:19	33.85	3/21/11	3:12	33.85
3/20/11	23:41	33.70	3/21/11	0:34	33.78	3/21/11	1:27	33.82	3/21/11	2:20	33.85	3/21/11	3:13	33.85
3/20/11	23:42	33.70	3/21/11	0:35	33.78	3/21/11	1:28	33.82	3/21/11	2:21	33.85	3/21/11	3:14	33.85
3/20/11	23:43	33.70	3/21/11	0:36	33.78	3/21/11	1:29	33.82	3/21/11	2:22	33.85	3/21/11	3:15	33.85
3/20/11	23:44	33.72	3/21/11	0:37	33.78	3/21/11	1:30	33.82	3/21/11	2:23	33.85	3/21/11	3:16	33.85
3/20/11	23:45	33.72	3/21/11	0:38	33.78	3/21/11	1:31	33.82	3/21/11	2:24	33.85	3/21/11	3:17	33.85
3/20/11	23:46	33.72	3/21/11	0:39	33.78	3/21/11	1:32	33.82	3/21/11	2:25	33.85	3/21/11	3:18	33.85
3/20/11	23:47	33.72	3/21/11	0:40	33.78	3/21/11	1:33	33.82	3/21/11	2:26	33.85	3/21/11	3:19	33.85
3/20/11	23:48	33.72	3/21/11	0:41	33.78	3/21/11	1:34	33.82	3/21/11	2:27	33.85	3/21/11	3:20	33.87
3/20/11	23:49	33.72	3/21/11	0:42	33.80	3/21/11	1:35	33.82	3/21/11	2:28	33.85	3/21/11	3:21	33.85
3/20/11	23:50	33.72	3/21/11	0:43	33.80	3/21/11	1:36	33.82	3/21/11	2:29	33.85	3/21/11	3:22	33.87
3/20/11	23:51	33.72	3/21/11	0:44	33.80	3/21/11	1:37	33.82	3/21/11	2:30	33.85	3/21/11	3:23	33.85
3/20/11	23:52	33.72	3/21/11	0:45	33.80	3/21/11	1:38	33.82	3/21/11	2:31	33.85	3/21/11	3:24	33.85
3/20/11	23:53	33.73	3/21/11	0:46	33.80	3/21/11	1:39	33.82	3/21/11	2:32	33.85	3/21/11	3:25	33.87
3/20/11	23:54	33.73	3/21/11	0:47	33.80	3/21/11	1:40	33.82	3/21/11	2:33	33.85	3/21/11	3:26	33.85
3/20/11	23:55	33.73	3/21/11	0:48	33.80	3/21/11	1:41	33.82	3/21/11	2:34	33.85	3/21/11	3:27	33.85
3/20/11	23:56	33.73	3/21/11	0:49	33.80	3/21/11	1:42	33.82	3/21/11	2:35	33.85	3/21/11	3:28	33.87
3/20/11	23:57	33.73	3/21/11	0:50	33.80	3/21/11	1:43	33.82	3/21/11	2:36	33.85	3/21/11	3:29	33.87
3/20/11	23:58	33.73	3/21/11	0:51	33.80	3/21/11	1:44	33.82	3/21/11	2:37	33.85	3/21/11	3:30	33.85
3/20/11	23:59	33.73	3/21/11	0:52	33.80	3/21/11	1:45	33.83	3/21/11	2:38	33.85	3/21/11	3:31	33.87
3/21/11	0:00	33.73	3/21/11	0:53	33.80	3/21/11	1:46	33.82	3/21/11	2:39	33.85	3/21/11	3:32	33.87
3/21/11	0:01	33.73	3/21/11	0:54	33.80	3/21/11	1:47	33.83	3/21/11	2:40	33.85	3/21/11	3:33	33.87
3/21/11	0:02	33.73	3/21/11	0:55	33.80	3/21/11	1:48	33.82	3/21/11	2:41	33.85	3/21/11	3:34	33.87
3/21/11	0:03	33.73	3/21/11	0:56	33.80	3/21/11	1:49	33.83	3/21/11	2:42	33.85	3/21/11	3:35	33.88
3/21/11	0:04	33.75	3/21/11	0:57	33.80	3/21/11	1:50	33.83	3/21/11	2:43	33.85	3/21/11	3:36	33.88
3/21/11	0:05	33.73	3/21/11	0:58	33.80	3/21/11	1:51	33.83	3/21/11	2:44	33.85	3/21/11	3:37	33.88
3/21/11	0:06	33.73	3/21/11	0:59	33.80	3/21/11	1:52	33.83	3/21/11	2:45	33.85	3/21/11	3:38	33.88
3/21/11	0:07	33.73	3/21/11	1:00	33.79	3/21/11	1:53	33.83	3/21/11	2:46	33.85	3/21/11	3:39	33.88
3/21/11	0:08	33.75	3/21/11	1:01	33.80	3/21/11	1:54	33.83	3/21/11	2:47	33.85	3/21/11	3:40	33.88
3/21/11	0:09	33.75	3/21/11	1:02	33.79	3/21/11	1:55	33.83	3/21/11	2:48	33.85	3/21/11	3:41	33.88
3/21/11	0:10	33.75	3/21/11	1:03	33.80	3/21/11	1:56	33.83	3/21/11	2:49	33.85	3/21/11	3:42	33.88
3/21/11	0:11	33.75	3/21/11	1:04	33.80	3/21/11	1:57	33.83	3/21/11	2:50	33.85	3/21/11	3:43	33.88
3/21/11	0:12	33.75	3/21/11	1:05	33.79	3/21/11	1:58	33.83	3/21/11	2:51	33.87	3/21/11	3:44	33.88
3/21/11	0:13	33.75	3/21/11	1:06	33.80	3/21/11	1:59	33.83	3/21/11	2:52	33.85	3/21/11	3:45	33.88
3/21/11	0:14	33.77	3/21/11	1:07	33.80	3/21/11	2:00	33.83	3/21/11	2:53	33.85	3/21/11	3:46	33.88
3/21/11	0:15	33.77	3/21/11	1:08	33.80	3/21/11	2:01	33.83	3/21/11	2:54	33.87	3/21/11	3:47	33.88
3/21/11	0:16	33.77	3/21/11	1:09	33.80	3/21/11	2:02	33.83	3/21/11	2:55	33.87	3/21/11	3:48	33.88
3/21/11	0:17	33.77	3/21/11	1:10	33.80	3/21/11	2:03	33.83	3/21/11	2:56	33.85	3/21/11	3:49	33.88
3/21/11	0:18	33.77	3/21/11	1:11	33.80	3/21/11	2:04	33.83	3/21/11	2:57	33.85	3/21/11	3:50	33.88
3/21/11	0:19	33.77	3/21/11	1:12	33.80	3/21/11	2:05	33.83	3/21/11	2:58	33.85	3/21/11	3:51	33.88

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	3:52	33.90	3/21/11	4:45	33.90	3/21/11	5:38	33.88	3/21/11	6:31	33.88	3/21/11	7:24	33.92
3/21/11	3:53	33.90	3/21/11	4:46	33.90	3/21/11	5:39	33.88	3/21/11	6:32	33.88	3/21/11	7:25	33.92
3/21/11	3:54	33.90	3/21/11	4:47	33.90	3/21/11	5:40	33.88	3/21/11	6:33	33.88	3/21/11	7:26	33.92
3/21/11	3:55	33.90	3/21/11	4:48	33.90	3/21/11	5:41	33.88	3/21/11	6:34	33.88	3/21/11	7:27	33.92
3/21/11	3:56	33.90	3/21/11	4:49	33.90	3/21/11	5:42	33.88	3/21/11	6:35	33.88	3/21/11	7:28	33.92
3/21/11	3:57	33.90	3/21/11	4:50	33.90	3/21/11	5:43	33.88	3/21/11	6:36	33.88	3/21/11	7:29	33.92
3/21/11	3:58	33.90	3/21/11	4:51	33.90	3/21/11	5:44	33.88	3/21/11	6:37	33.88	3/21/11	7:30	33.92
3/21/11	3:59	33.90	3/21/11	4:52	33.90	3/21/11	5:45	33.88	3/21/11	6:38	33.90	3/21/11	7:31	33.92
3/21/11	4:00	33.88	3/21/11	4:53	33.90	3/21/11	5:46	33.88	3/21/11	6:39	33.90	3/21/11	7:32	33.93
3/21/11	4:01	33.88	3/21/11	4:54	33.90	3/21/11	5:47	33.88	3/21/11	6:40	33.90	3/21/11	7:33	33.92
3/21/11	4:02	33.88	3/21/11	4:55	33.90	3/21/11	5:48	33.88	3/21/11	6:41	33.88	3/21/11	7:34	33.92
3/21/11	4:03	33.88	3/21/11	4:56	33.90	3/21/11	5:49	33.88	3/21/11	6:42	33.90	3/21/11	7:35	33.92
3/21/11	4:04	33.88	3/21/11	4:57	33.90	3/21/11	5:50	33.87	3/21/11	6:43	33.90	3/21/11	7:36	33.92
3/21/11	4:05	33.88	3/21/11	4:58	33.90	3/21/11	5:51	33.87	3/21/11	6:44	33.90	3/21/11	7:37	33.92
3/21/11	4:06	33.88	3/21/11	4:59	33.90	3/21/11	5:52	33.87	3/21/11	6:45	33.90	3/21/11	7:38	33.92
3/21/11	4:07	33.90	3/21/11	5:00	33.92	3/21/11	5:53	33.87	3/21/11	6:46	33.90	3/21/11	7:39	33.92
3/21/11	4:08	33.88	3/21/11	5:01	33.92	3/21/11	5:54	33.87	3/21/11	6:47	33.90	3/21/11	7:40	33.92
3/21/11	4:09	33.90	3/21/11	5:02	33.92	3/21/11	5:55	33.87	3/21/11	6:48	33.90	3/21/11	7:41	33.92
3/21/11	4:10	33.90	3/21/11	5:03	33.92	3/21/11	5:56	33.87	3/21/11	6:49	33.90	3/21/11	7:42	33.93
3/21/11	4:11	33.88	3/21/11	5:04	33.92	3/21/11	5:57	33.85	3/21/11	6:50	33.90	3/21/11	7:43	33.93
3/21/11	4:12	33.90	3/21/11	5:05	33.92	3/21/11	5:58	33.87	3/21/11	6:51	33.90	3/21/11	7:44	33.92
3/21/11	4:13	33.90	3/21/11	5:06	33.92	3/21/11	5:59	33.87	3/21/11	6:52	33.90	3/21/11	7:45	33.92
3/21/11	4:14	33.90	3/21/11	5:07	33.92	3/21/11	6:00	33.87	3/21/11	6:53	33.90	3/21/11	7:46	33.92
3/21/11	4:15	33.90	3/21/11	5:08	33.90	3/21/11	6:01	33.87	3/21/11	6:54	33.90	3/21/11	7:47	33.92
3/21/11	4:16	33.90	3/21/11	5:09	33.90	3/21/11	6:02	33.87	3/21/11	6:55	33.90	3/21/11	7:48	33.92
3/21/11	4:17	33.90	3/21/11	5:10	33.92	3/21/11	6:03	33.87	3/21/11	6:56	33.90	3/21/11	7:49	33.92
3/21/11	4:18	33.90	3/21/11	5:11	33.92	3/21/11	6:04	33.87	3/21/11	6:57	33.90	3/21/11	7:50	33.92
3/21/11	4:19	33.90	3/21/11	5:12	33.92	3/21/11	6:05	33.87	3/21/11	6:58	33.90	3/21/11	7:51	33.92
3/21/11	4:20	33.90	3/21/11	5:13	33.92	3/21/11	6:06	33.87	3/21/11	6:59	33.90	3/21/11	7:52	33.92
3/21/11	4:21	33.90	3/21/11	5:14	33.90	3/21/11	6:07	33.87	3/21/11	7:00	33.92	3/21/11	7:53	33.92
3/21/11	4:22	33.90	3/21/11	5:15	33.90	3/21/11	6:08	33.87	3/21/11	7:01	33.92	3/21/11	7:54	33.92
3/21/11	4:23	33.90	3/21/11	5:16	33.90	3/21/11	6:09	33.87	3/21/11	7:02	33.92	3/21/11	7:55	33.92
3/21/11	4:24	33.90	3/21/11	5:17	33.90	3/21/11	6:10	33.87	3/21/11	7:03	33.92	3/21/11	7:56	33.92
3/21/11	4:25	33.90	3/21/11	5:18	33.92	3/21/11	6:11	33.87	3/21/11	7:04	33.93	3/21/11	7:57	33.92
3/21/11	4:26	33.90	3/21/11	5:19	33.90	3/21/11	6:12	33.87	3/21/11	7:05	33.92	3/21/11	7:58	33.92
3/21/11	4:27	33.90	3/21/11	5:20	33.90	3/21/11	6:13	33.87	3/21/11	7:06	33.93	3/21/11	7:59	33.92
3/21/11	4:28	33.90	3/21/11	5:21	33.90	3/21/11	6:14	33.87	3/21/11	7:07	33.92	3/21/11	8:00	33.93
3/21/11	4:29	33.90	3/21/11	5:22	33.90	3/21/11	6:15	33.87	3/21/11	7:08	33.92	3/21/11	8:01	33.93
3/21/11	4:30	33.90	3/21/11	5:23	33.90	3/21/11	6:16	33.87	3/21/11	7:09	33.93	3/21/11	8:02	33.93
3/21/11	4:31	33.90	3/21/11	5:24	33.90	3/21/11	6:17	33.88	3/21/11	7:10	33.92	3/21/11	8:03	33.93
3/21/11	4:32	33.90	3/21/11	5:25	33.90	3/21/11	6:18	33.87	3/21/11	7:11	33.92	3/21/11	8:04	33.93
3/21/11	4:33	33.90	3/21/11	5:26	33.90	3/21/11	6:19	33.87	3/21/11	7:12	33.93	3/21/11	8:05	33.93
3/21/11	4:34	33.90	3/21/11	5:27	33.90	3/21/11	6:20	33.87	3/21/11	7:13	33.92	3/21/11	8:06	33.93
3/21/11	4:35	33.90	3/21/11	5:28	33.90	3/21/11	6:21	33.88	3/21/11	7:14	33.92	3/21/11	8:07	33.93
3/21/11	4:36	33.90	3/21/11	5:29	33.90	3/21/11	6:22	33.87	3/21/11	7:15	33.92	3/21/11	8:08	33.93
3/21/11	4:37	33.90	3/21/11	5:30	33.90	3/21/11	6:23	33.88	3/21/11	7:16	33.92	3/21/11	8:09	33.93
3/21/11	4:38	33.90	3/21/11	5:31	33.90	3/21/11	6:24	33.88	3/21/11	7:17	33.92	3/21/11	8:10	33.93
3/21/11	4:39	33.90	3/21/11	5:32	33.90	3/21/11	6:25	33.88	3/21/11	7:18	33.92	3/21/11	8:11	33.93
3/21/11	4:40	33.90	3/21/11	5:33	33.90	3/21/11	6:26	33.88	3/21/11	7:19	33.92	3/21/11	8:12	33.93
3/21/11	4:41	33.90	3/21/11	5:34	33.90	3/21/11	6:27	33.87	3/21/11	7:20	33.92	3/21/11	8:13	33.93
3/21/11	4:42	33.90	3/21/11	5:35	33.88	3/21/11	6:28	33.88	3/21/11	7:21	33.93	3/21/11	8:14	33.93
3/21/11	4:43	33.90	3/21/11	5:36	33.88	3/21/11	6:29	33.88	3/21/11	7:22	33.93	3/21/11	8:15	33.93
3/21/11	4:44	33.90	3/21/11	5:37	33.88	3/21/11	6:30	33.88	3/21/11	7:23	33.92	3/21/11	8:16	33.93

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	8:17	33.93	3/21/11	9:10	33.97	3/21/11	10:03	34.03	3/21/11	10:56	34.07	3/21/11	11:49	34.08
3/21/11	8:18	33.93	3/21/11	9:11	33.97	3/21/11	10:04	34.03	3/21/11	10:57	34.07	3/21/11	11:50	34.07
3/21/11	8:19	33.93	3/21/11	9:12	33.97	3/21/11	10:05	34.03	3/21/11	10:58	34.07	3/21/11	11:51	34.08
3/21/11	8:20	33.93	3/21/11	9:13	33.97	3/21/11	10:06	34.03	3/21/11	10:59	34.07	3/21/11	11:52	34.07
3/21/11	8:21	33.93	3/21/11	9:14	33.97	3/21/11	10:07	34.03	3/21/11	11:00	34.05	3/21/11	11:53	34.08
3/21/11	8:22	33.93	3/21/11	9:15	33.97	3/21/11	10:08	34.03	3/21/11	11:01	34.05	3/21/11	11:54	34.07
3/21/11	8:23	33.93	3/21/11	9:16	33.97	3/21/11	10:09	34.03	3/21/11	11:02	34.05	3/21/11	11:55	34.08
3/21/11	8:24	33.93	3/21/11	9:17	33.98	3/21/11	10:10	34.03	3/21/11	11:03	34.05	3/21/11	11:56	34.08
3/21/11	8:25	33.93	3/21/11	9:18	33.98	3/21/11	10:11	34.03	3/21/11	11:04	34.05	3/21/11	11:57	34.08
3/21/11	8:26	33.93	3/21/11	9:19	33.98	3/21/11	10:12	34.03	3/21/11	11:05	34.05	3/21/11	11:58	34.08
3/21/11	8:27	33.93	3/21/11	9:20	33.98	3/21/11	10:13	34.03	3/21/11	11:06	34.05	3/21/11	11:59	34.08
3/21/11	8:28	33.93	3/21/11	9:21	33.98	3/21/11	10:14	34.03	3/21/11	11:07	34.05	3/21/11	12:00	34.07
3/21/11	8:29	33.93	3/21/11	9:22	33.98	3/21/11	10:15	34.03	3/21/11	11:08	34.05	3/21/11	12:01	34.07
3/21/11	8:30	33.93	3/21/11	9:23	33.98	3/21/11	10:16	34.03	3/21/11	11:09	34.05	3/21/11	12:02	34.07
3/21/11	8:31	33.93	3/21/11	9:24	33.98	3/21/11	10:17	34.03	3/21/11	11:10	34.05	3/21/11	12:03	34.07
3/21/11	8:32	33.93	3/21/11	9:25	33.98	3/21/11	10:18	34.03	3/21/11	11:11	34.05	3/21/11	12:04	34.07
3/21/11	8:33	33.93	3/21/11	9:26	33.98	3/21/11	10:19	34.03	3/21/11	11:12	34.05	3/21/11	12:05	34.07
3/21/11	8:34	33.93	3/21/11	9:27	33.98	3/21/11	10:20	34.03	3/21/11	11:13	34.05	3/21/11	12:06	34.07
3/21/11	8:35	33.93	3/21/11	9:28	33.98	3/21/11	10:21	34.03	3/21/11	11:14	34.05	3/21/11	12:07	34.07
3/21/11	8:36	33.93	3/21/11	9:29	33.98	3/21/11	10:22	34.03	3/21/11	11:15	34.05	3/21/11	12:08	34.07
3/21/11	8:37	33.93	3/21/11	9:30	33.98	3/21/11	10:23	34.03	3/21/11	11:16	34.05	3/21/11	12:09	34.07
3/21/11	8:38	33.93	3/21/11	9:31	33.98	3/21/11	10:24	34.03	3/21/11	11:17	34.05	3/21/11	12:10	34.07
3/21/11	8:39	33.93	3/21/11	9:32	33.98	3/21/11	10:25	34.03	3/21/11	11:18	34.05	3/21/11	12:11	34.07
3/21/11	8:40	33.93	3/21/11	9:33	33.98	3/21/11	10:26	34.03	3/21/11	11:19	34.05	3/21/11	12:12	34.07
3/21/11	8:41	33.93	3/21/11	9:34	33.98	3/21/11	10:27	34.03	3/21/11	11:20	34.05	3/21/11	12:13	34.07
3/21/11	8:42	33.93	3/21/11	9:35	33.98	3/21/11	10:28	34.03	3/21/11	11:21	34.07	3/21/11	12:14	34.07
3/21/11	8:43	33.93	3/21/11	9:36	33.98	3/21/11	10:29	34.03	3/21/11	11:22	34.07	3/21/11	12:15	34.07
3/21/11	8:44	33.93	3/21/11	9:37	33.98	3/21/11	10:30	34.03	3/21/11	11:23	34.05	3/21/11	12:16	34.08
3/21/11	8:45	33.93	3/21/11	9:38	33.98	3/21/11	10:31	34.03	3/21/11	11:24	34.05	3/21/11	12:17	34.08
3/21/11	8:46	33.93	3/21/11	9:39	34.00	3/21/11	10:32	34.05	3/21/11	11:25	34.05	3/21/11	12:18	34.08
3/21/11	8:47	33.93	3/21/11	9:40	34.00	3/21/11	10:33	34.03	3/21/11	11:26	34.05	3/21/11	12:19	34.07
3/21/11	8:48	33.93	3/21/11	9:41	34.00	3/21/11	10:34	34.05	3/21/11	11:27	34.05	3/21/11	12:20	34.08
3/21/11	8:49	33.93	3/21/11	9:42	34.00	3/21/11	10:35	34.05	3/21/11	11:28	34.05	3/21/11	12:21	34.08
3/21/11	8:50	33.93	3/21/11	9:43	34.00	3/21/11	10:36	34.05	3/21/11	11:29	34.07	3/21/11	12:22	34.07
3/21/11	8:51	33.93	3/21/11	9:44	34.00	3/21/11	10:37	34.05	3/21/11	11:30	34.05	3/21/11	12:23	34.08
3/21/11	8:52	33.93	3/21/11	9:45	34.00	3/21/11	10:38	34.05	3/21/11	11:31	34.07	3/21/11	12:24	34.08
3/21/11	8:53	33.93	3/21/11	9:46	34.00	3/21/11	10:39	34.05	3/21/11	11:32	34.07	3/21/11	12:25	34.08
3/21/11	8:54	33.93	3/21/11	9:47	34.00	3/21/11	10:40	34.05	3/21/11	11:33	34.07	3/21/11	12:26	34.08
3/21/11	8:55	33.93	3/21/11	9:48	34.00	3/21/11	10:41	34.05	3/21/11	11:34	34.07	3/21/11	12:27	34.08
3/21/11	8:56	33.93	3/21/11	9:49	34.00	3/21/11	10:42	34.05	3/21/11	11:35	34.07	3/21/11	12:28	34.08
3/21/11	8:57	33.93	3/21/11	9:50	34.00	3/21/11	10:43	34.05	3/21/11	11:36	34.07	3/21/11	12:29	34.08
3/21/11	8:58	33.93	3/21/11	9:51	34.00	3/21/11	10:44	34.05	3/21/11	11:37	34.07	3/21/11	12:30	34.08
3/21/11	8:59	33.93	3/21/11	9:52	34.00	3/21/11	10:45	34.05	3/21/11	11:38	34.07	3/21/11	12:31	34.08
3/21/11	9:00	33.97	3/21/11	9:53	34.00	3/21/11	10:46	34.05	3/21/11	11:39	34.07	3/21/11	12:32	34.08
3/21/11	9:01	33.95	3/21/11	9:54	34.00	3/21/11	10:47	34.05	3/21/11	11:40	34.07	3/21/11	12:33	34.08
3/21/11	9:02	33.97	3/21/11	9:55	34.02	3/21/11	10:48	34.05	3/21/11	11:41	34.07	3/21/11	12:34	34.08
3/21/11	9:03	33.97	3/21/11	9:56	34.02	3/21/11	10:49	34.05	3/21/11	11:42	34.07	3/21/11	12:35	34.08
3/21/11	9:04	33.95	3/21/11	9:57	34.02	3/21/11	10:50	34.05	3/21/11	11:43	34.07	3/21/11	12:36	34.08
3/21/11	9:05	33.97	3/21/11	9:58	34.02	3/21/11	10:51	34.05	3/21/11	11:44	34.07	3/21/11	12:37	34.08
3/21/11	9:06	33.97	3/21/11	9:59	34.02	3/21/11	10:52	34.07	3/21/11	11:45	34.07	3/21/11	12:38	34.08
3/21/11	9:07	33.97	3/21/11	10:00	34.03	3/21/11	10:53	34.05	3/21/11	11:46	34.08	3/21/11	12:39	34.10
3/21/11	9:08	33.97	3/21/11	10:01	34.03	3/21/11	10:54	34.05	3/21/11	11:47	34.08	3/21/11	12:40	34.08
3/21/11	9:09	33.97	3/21/11	10:02	34.03	3/21/11	10:55	34.07	3/21/11	11:48	34.08	3/21/11	12:41	34.08

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	12:42	34.08	3/21/11	13:35	34.12	3/21/11	14:28	34.10	3/21/11	15:21	34.08	3/21/11	16:14	32.49
3/21/11	12:43	34.10	3/21/11	13:36	34.12	3/21/11	14:29	34.10	3/21/11	15:22	34.08	3/21/11	16:15	32.44
3/21/11	12:44	34.10	3/21/11	13:37	34.12	3/21/11	14:30	34.10	3/21/11	15:23	34.08	3/21/11	16:16	32.38
3/21/11	12:45	34.10	3/21/11	13:38	34.12	3/21/11	14:31	34.10	3/21/11	15:24	34.08	3/21/11	16:17	32.31
3/21/11	12:46	34.10	3/21/11	13:39	34.12	3/21/11	14:32	34.10	3/21/11	15:25	34.08	3/21/11	16:18	32.24
3/21/11	12:47	34.10	3/21/11	13:40	34.12	3/21/11	14:33	34.10	3/21/11	15:26	34.08	3/21/11	16:19	32.18
3/21/11	12:48	34.10	3/21/11	13:41	34.12	3/21/11	14:34	34.10	3/21/11	15:27	34.08	3/21/11	16:20	32.11
3/21/11	12:49	34.10	3/21/11	13:42	34.12	3/21/11	14:35	34.10	3/21/11	15:28	34.10	3/21/11	16:21	32.04
3/21/11	12:50	34.10	3/21/11	13:43	34.10	3/21/11	14:36	34.10	3/21/11	15:29	34.10	3/21/11	16:22	31.98
3/21/11	12:51	34.10	3/21/11	13:44	34.12	3/21/11	14:37	34.10	3/21/11	15:30	34.08	3/21/11	16:23	31.91
3/21/11	12:52	34.10	3/21/11	13:45	34.12	3/21/11	14:38	34.10	3/21/11	15:31	34.08	3/21/11	16:24	31.85
3/21/11	12:53	34.10	3/21/11	13:46	34.12	3/21/11	14:39	34.10	3/21/11	15:32	34.08	3/21/11	16:25	31.80
3/21/11	12:54	34.10	3/21/11	13:47	34.12	3/21/11	14:40	34.10	3/21/11	15:33	34.10	3/21/11	16:26	31.73
3/21/11	12:55	34.10	3/21/11	13:48	34.12	3/21/11	14:41	34.12	3/21/11	15:34	34.10	3/21/11	16:27	31.68
3/21/11	12:56	34.10	3/21/11	13:49	34.12	3/21/11	14:42	34.10	3/21/11	15:35	34.10	3/21/11	16:28	31.61
3/21/11	12:57	34.10	3/21/11	13:50	34.12	3/21/11	14:43	34.10	3/21/11	15:36	34.10	3/21/11	16:29	31.55
3/21/11	12:58	34.10	3/21/11	13:51	34.12	3/21/11	14:44	34.10	3/21/11	15:37	34.10	3/21/11	16:30	31.48
3/21/11	12:59	34.10	3/21/11	13:52	34.12	3/21/11	14:45	34.10	3/21/11	15:38	34.10	3/21/11	16:31	31.41
3/21/11	13:00	34.08	3/21/11	13:53	34.12	3/21/11	14:46	34.10	3/21/11	15:39	34.10	3/21/11	16:32	31.35
3/21/11	13:01	34.08	3/21/11	13:54	34.12	3/21/11	14:47	34.10	3/21/11	15:40	34.08	3/21/11	16:33	31.30
3/21/11	13:02	34.08	3/21/11	13:55	34.12	3/21/11	14:48	34.10	3/21/11	15:41	34.07	3/21/11	16:34	31.23
3/21/11	13:03	34.08	3/21/11	13:56	34.12	3/21/11	14:49	34.10	3/21/11	15:42	34.07	3/21/11	16:35	31.17
3/21/11	13:04	34.08	3/21/11	13:57	34.12	3/21/11	14:50	34.10	3/21/11	15:43	34.03	3/21/11	16:36	31.12
3/21/11	13:05	34.08	3/21/11	13:58	34.12	3/21/11	14:51	34.10	3/21/11	15:44	34.03	3/21/11	16:37	31.05
3/21/11	13:06	34.08	3/21/11	13:59	34.12	3/21/11	14:52	34.10	3/21/11	15:45	34.00	3/21/11	16:38	31.00
3/21/11	13:07	34.08	3/21/11	14:00	34.10	3/21/11	14:53	34.12	3/21/11	15:46	33.98	3/21/11	16:39	30.95
3/21/11	13:08	34.10	3/21/11	14:01	34.10	3/21/11	14:54	34.10	3/21/11	15:47	33.95	3/21/11	16:40	30.88
3/21/11	13:09	34.08	3/21/11	14:02	34.10	3/21/11	14:55	34.10	3/21/11	15:48	33.92	3/21/11	16:41	30.82
3/21/11	13:10	34.10	3/21/11	14:03	34.10	3/21/11	14:56	34.10	3/21/11	15:49	33.88	3/21/11	16:42	30.77
3/21/11	13:11	34.08	3/21/11	14:04	34.10	3/21/11	14:57	34.12	3/21/11	15:50	33.85	3/21/11	16:43	30.72
3/21/11	13:12	34.10	3/21/11	14:05	34.10	3/21/11	14:58	34.12	3/21/11	15:51	33.82	3/21/11	16:44	30.65
3/21/11	13:13	34.10	3/21/11	14:06	34.10	3/21/11	14:59	34.12	3/21/11	15:52	33.77	3/21/11	16:45	30.60
3/21/11	13:14	34.10	3/21/11	14:07	34.10	3/21/11	15:00	34.07	3/21/11	15:53	33.73	3/21/11	16:46	30.55
3/21/11	13:15	34.10	3/21/11	14:08	34.10	3/21/11	15:01	34.08	3/21/11	15:54	33.70	3/21/11	16:47	30.49
3/21/11	13:16	34.10	3/21/11	14:09	34.10	3/21/11	15:02	34.08	3/21/11	15:55	33.64	3/21/11	16:48	30.44
3/21/11	13:17	34.10	3/21/11	14:10	34.10	3/21/11	15:03	34.07	3/21/11	15:56	33.60	3/21/11	16:49	30.39
3/21/11	13:18	34.10	3/21/11	14:11	34.10	3/21/11	15:04	34.07	3/21/11	15:57	33.55	3/21/11	16:50	30.34
3/21/11	13:19	34.10	3/21/11	14:12	34.10	3/21/11	15:05	34.08	3/21/11	15:58	33.50	3/21/11	16:51	30.29
3/21/11	13:20	34.10	3/21/11	14:13	34.10	3/21/11	15:06	34.08	3/21/11	15:59	33.44	3/21/11	16:52	30.22
3/21/11	13:21	34.10	3/21/11	14:14	34.10	3/21/11	15:07	34.08	3/21/11	16:00	33.35	3/21/11	16:53	30.19
3/21/11	13:22	34.10	3/21/11	14:15	34.10	3/21/11	15:08	34.08	3/21/11	16:01	33.29	3/21/11	16:54	30.12
3/21/11	13:23	34.10	3/21/11	14:16	34.10	3/21/11	15:09	34.08	3/21/11	16:02	33.24	3/21/11	16:55	30.09
3/21/11	13:24	34.10	3/21/11	14:17	34.10	3/21/11	15:10	34.08	3/21/11	16:03	33.17	3/21/11	16:56	30.02
3/21/11	13:25	34.10	3/21/11	14:18	34.10	3/21/11	15:11	34.07	3/21/11	16:04	33.12	3/21/11	16:57	29.97
3/21/11	13:26	34.10	3/21/11	14:19	34.10	3/21/11	15:12	34.08	3/21/11	16:05	33.07	3/21/11	16:58	29.92
3/21/11	13:27	34.10	3/21/11	14:20	34.10	3/21/11	15:13	34.08	3/21/11	16:06	33.01	3/21/11	16:59	29.89
3/21/11	13:28	34.10	3/21/11	14:21	34.10	3/21/11	15:14	34.08	3/21/11	16:07	32.94	3/21/11	17:00	29.81
3/21/11	13:29	34.10	3/21/11	14:22	34.10	3/21/11	15:15	34.08	3/21/11	16:08	32.87	3/21/11	17:01	29.77
3/21/11	13:30	34.10	3/21/11	14:23	34.10	3/21/11	15:16	34.08	3/21/11	16:09	32.82	3/21/11	17:02	29.72
3/21/11	13:31	34.10	3/21/11	14:24	34.10	3/21/11	15:17	34.08	3/21/11	16:10	32.74	3/21/11	17:03	29.67
3/21/11	13:32	34.10	3/21/11	14:25	34.10	3/21/11	15:18	34.08	3/21/11	16:11	32.69	3/21/11	17:04	29.63
3/21/11	13:33	34.10	3/21/11	14:26	34.10	3/21/11	15:19	34.08	3/21/11	16:12	32.62	3/21/11	17:05	29.59
3/21/11	13:34	34.12	3/21/11	14:27	34.10	3/21/11	15:20	34.08	3/21/11	16:13	32.57	3/21/11	17:06	29.54

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	17:07	29.49	3/21/11	18:00	27.67	3/21/11	18:53	26.58	3/21/11	19:46	25.83	3/21/11	20:39	25.33
3/21/11	17:08	29.44	3/21/11	18:01	27.67	3/21/11	18:54	26.56	3/21/11	19:47	25.83	3/21/11	20:40	25.32
3/21/11	17:09	29.41	3/21/11	18:02	27.64	3/21/11	18:55	26.54	3/21/11	19:48	25.83	3/21/11	20:41	25.30
3/21/11	17:10	29.36	3/21/11	18:03	27.60	3/21/11	18:56	26.53	3/21/11	19:49	25.81	3/21/11	20:42	25.30
3/21/11	17:11	29.33	3/21/11	18:04	27.59	3/21/11	18:57	26.51	3/21/11	19:50	25.80	3/21/11	20:43	25.30
3/21/11	17:12	29.28	3/21/11	18:05	27.55	3/21/11	18:58	26.49	3/21/11	19:51	25.78	3/21/11	20:44	25.28
3/21/11	17:13	29.24	3/21/11	18:06	27.54	3/21/11	18:59	26.48	3/21/11	19:52	25.76	3/21/11	20:45	25.27
3/21/11	17:14	29.21	3/21/11	18:07	27.50	3/21/11	19:00	26.48	3/21/11	19:53	25.76	3/21/11	20:46	25.27
3/21/11	17:15	29.16	3/21/11	18:08	27.49	3/21/11	19:01	26.48	3/21/11	19:54	25.75	3/21/11	20:47	25.25
3/21/11	17:16	29.11	3/21/11	18:09	27.45	3/21/11	19:02	26.46	3/21/11	19:55	25.75	3/21/11	20:48	25.25
3/21/11	17:17	29.08	3/21/11	18:10	27.44	3/21/11	19:03	26.43	3/21/11	19:56	25.73	3/21/11	20:49	25.23
3/21/11	17:18	29.03	3/21/11	18:11	27.40	3/21/11	19:04	26.43	3/21/11	19:57	25.71	3/21/11	20:50	25.23
3/21/11	17:19	29.00	3/21/11	18:12	27.39	3/21/11	19:05	26.41	3/21/11	19:58	25.70	3/21/11	20:51	25.22
3/21/11	17:20	28.95	3/21/11	18:13	27.37	3/21/11	19:06	26.38	3/21/11	19:59	25.70	3/21/11	20:52	25.20
3/21/11	17:21	28.93	3/21/11	18:14	27.34	3/21/11	19:07	26.36	3/21/11	20:00	25.71	3/21/11	20:53	25.20
3/21/11	17:22	28.88	3/21/11	18:15	27.32	3/21/11	19:08	26.36	3/21/11	20:01	25.71	3/21/11	20:54	25.20
3/21/11	17:23	28.85	3/21/11	18:16	27.30	3/21/11	19:09	26.34	3/21/11	20:02	25.70	3/21/11	20:55	25.18
3/21/11	17:24	28.81	3/21/11	18:17	27.27	3/21/11	19:10	26.33	3/21/11	20:03	25.68	3/21/11	20:56	25.18
3/21/11	17:25	28.78	3/21/11	18:18	27.25	3/21/11	19:11	26.31	3/21/11	20:04	25.66	3/21/11	20:57	25.17
3/21/11	17:26	28.75	3/21/11	18:19	27.24	3/21/11	19:12	26.29	3/21/11	20:05	25.66	3/21/11	20:58	25.17
3/21/11	17:27	28.71	3/21/11	18:20	27.20	3/21/11	19:13	26.28	3/21/11	20:06	25.65	3/21/11	20:59	25.15
3/21/11	17:28	28.66	3/21/11	18:21	27.19	3/21/11	19:14	26.28	3/21/11	20:07	25.63	3/21/11	21:00	25.15
3/21/11	17:29	28.63	3/21/11	18:22	27.17	3/21/11	19:15	26.24	3/21/11	20:08	25.63	3/21/11	21:01	25.15
3/21/11	17:30	28.60	3/21/11	18:23	27.14	3/21/11	19:16	26.23	3/21/11	20:09	25.60	3/21/11	21:02	25.15
3/21/11	17:31	28.56	3/21/11	18:24	27.12	3/21/11	19:17	26.23	3/21/11	20:10	25.60	3/21/11	21:03	25.13
3/21/11	17:32	28.53	3/21/11	18:25	27.11	3/21/11	19:18	26.21	3/21/11	20:11	25.60	3/21/11	21:04	25.13
3/21/11	17:33	28.48	3/21/11	18:26	27.07	3/21/11	19:19	26.19	3/21/11	20:12	25.58	3/21/11	21:05	25.12
3/21/11	17:34	28.46	3/21/11	18:27	27.07	3/21/11	19:20	26.18	3/21/11	20:13	25.56	3/21/11	21:06	25.12
3/21/11	17:35	28.42	3/21/11	18:28	27.04	3/21/11	19:21	26.16	3/21/11	20:14	25.56	3/21/11	21:07	25.10
3/21/11	17:36	28.40	3/21/11	18:29	27.02	3/21/11	19:22	26.16	3/21/11	20:15	25.55	3/21/11	21:08	25.08
3/21/11	17:37	28.35	3/21/11	18:30	27.01	3/21/11	19:23	26.14	3/21/11	20:16	25.55	3/21/11	21:09	25.08
3/21/11	17:38	28.33	3/21/11	18:31	26.97	3/21/11	19:24	26.13	3/21/11	20:17	25.53	3/21/11	21:10	25.08
3/21/11	17:39	28.30	3/21/11	18:32	26.96	3/21/11	19:25	26.11	3/21/11	20:18	25.53	3/21/11	21:11	25.08
3/21/11	17:40	28.27	3/21/11	18:33	26.94	3/21/11	19:26	26.09	3/21/11	20:19	25.53	3/21/11	21:12	25.07
3/21/11	17:41	28.23	3/21/11	18:34	26.92	3/21/11	19:27	26.09	3/21/11	20:20	25.50	3/21/11	21:13	25.07
3/21/11	17:42	28.22	3/21/11	18:35	26.91	3/21/11	19:28	26.08	3/21/11	20:21	25.50	3/21/11	21:14	25.05
3/21/11	17:43	28.18	3/21/11	18:36	26.87	3/21/11	19:29	26.06	3/21/11	20:22	25.48	3/21/11	21:15	25.05
3/21/11	17:44	28.15	3/21/11	18:37	26.87	3/21/11	19:30	26.05	3/21/11	20:23	25.48	3/21/11	21:16	25.03
3/21/11	17:45	28.12	3/21/11	18:38	26.84	3/21/11	19:31	26.03	3/21/11	20:24	25.46	3/21/11	21:17	25.02
3/21/11	17:46	28.08	3/21/11	18:39	26.82	3/21/11	19:32	26.01	3/21/11	20:25	25.46	3/21/11	21:18	25.02
3/21/11	17:47	28.05	3/21/11	18:40	26.81	3/21/11	19:33	26.01	3/21/11	20:26	25.45	3/21/11	21:19	25.02
3/21/11	17:48	28.02	3/21/11	18:41	26.79	3/21/11	19:34	26.00	3/21/11	20:27	25.45	3/21/11	21:20	25.02
3/21/11	17:49	28.00	3/21/11	18:42	26.77	3/21/11	19:35	25.98	3/21/11	20:28	25.43	3/21/11	21:21	25.00
3/21/11	17:50	27.95	3/21/11	18:43	26.76	3/21/11	19:36	25.96	3/21/11	20:29	25.43	3/21/11	21:22	24.98
3/21/11	17:51	27.95	3/21/11	18:44	26.74	3/21/11	19:37	25.96	3/21/11	20:30	25.40	3/21/11	21:23	24.98
3/21/11	17:52	27.92	3/21/11	18:45	26.72	3/21/11	19:38	25.95	3/21/11	20:31	25.40	3/21/11	21:24	24.97
3/21/11	17:53	27.88	3/21/11	18:46	26.71	3/21/11	19:39	25.93	3/21/11	20:32	25.40	3/21/11	21:25	24.97
3/21/11	17:54	27.87	3/21/11	18:47	26.67	3/21/11	19:40	25.93	3/21/11	20:33	25.38	3/21/11	21:26	24.95
3/21/11	17:55	27.84	3/21/11	18:48	26.67	3/21/11	19:41	25.90	3/21/11	20:34	25.38	3/21/11	21:27	24.95
3/21/11	17:56	27.80	3/21/11	18:49	26.64	3/21/11	19:42	25.90	3/21/11	20:35	25.35	3/21/11	21:28	24.95
3/21/11	17:57	27.79	3/21/11	18:50	26.62	3/21/11	19:43	25.88	3/21/11	20:36	25.35	3/21/11	21:29	24.95
3/21/11	17:58	27.75	3/21/11	18:51	26.61	3/21/11	19:44	25.86	3/21/11	20:37	25.33	3/21/11	21:30	24.93
3/21/11	17:59	27.74	3/21/11	18:52	26.59	3/21/11	19:45	25.83	3/21/11	20:38	25.33	3/21/11	21:31	24.93

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	21:32	24.92	3/21/11	22:25	24.62	3/21/11	23:18	24.35	3/22/11	0:55	23.97	3/22/11	5:20	23.26
3/21/11	21:33	24.92	3/21/11	22:26	24.60	3/21/11	23:19	24.35	3/22/11	1:00	23.94	3/22/11	5:25	23.24
3/21/11	21:34	24.90	3/21/11	22:27	24.60	3/21/11	23:20	24.34	3/22/11	1:05	23.94	3/22/11	5:30	23.23
3/21/11	21:35	24.88	3/21/11	22:28	24.60	3/21/11	23:21	24.34	3/22/11	1:10	23.92	3/22/11	5:35	23.21
3/21/11	21:36	24.88	3/21/11	22:29	24.60	3/21/11	23:22	24.34	3/22/11	1:15	23.91	3/22/11	5:40	23.21
3/21/11	21:37	24.88	3/21/11	22:30	24.59	3/21/11	23:23	24.32	3/22/11	1:20	23.87	3/22/11	5:45	23.21
3/21/11	21:38	24.88	3/21/11	22:31	24.59	3/21/11	23:24	24.32	3/22/11	1:25	23.87	3/22/11	5:50	23.19
3/21/11	21:39	24.87	3/21/11	22:32	24.57	3/21/11	23:25	24.32	3/22/11	1:30	23.86	3/22/11	5:55	23.18
3/21/11	21:40	24.85	3/21/11	22:33	24.57	3/21/11	23:26	24.30	3/22/11	1:35	23.84	3/22/11	6:00	23.19
3/21/11	21:41	24.85	3/21/11	22:34	24.57	3/21/11	23:27	24.29	3/22/11	1:40	23.82	3/22/11	6:05	23.18
3/21/11	21:42	24.83	3/21/11	22:35	24.57	3/21/11	23:28	24.29	3/22/11	1:45	23.81	3/22/11	6:10	23.16
3/21/11	21:43	24.82	3/21/11	22:36	24.55	3/21/11	23:29	24.29	3/22/11	1:50	23.81	3/22/11	6:15	23.16
3/21/11	21:44	24.82	3/21/11	22:37	24.55	3/21/11	23:30	24.29	3/22/11	1:55	23.77	3/22/11	6:20	23.14
3/21/11	21:45	24.82	3/21/11	22:38	24.55	3/21/11	23:31	24.29	3/22/11	2:00	23.72	3/22/11	6:25	23.13
3/21/11	21:46	24.82	3/21/11	22:39	24.55	3/21/11	23:32	24.29	3/22/11	2:05	23.72	3/22/11	6:30	23.13
3/21/11	21:47	24.82	3/21/11	22:40	24.54	3/21/11	23:33	24.29	3/22/11	2:10	23.72	3/22/11	6:35	23.11
3/21/11	21:48	24.82	3/21/11	22:41	24.54	3/21/11	23:34	24.29	3/22/11	2:15	23.71	3/22/11	6:40	23.09
3/21/11	21:49	24.80	3/21/11	22:42	24.54	3/21/11	23:35	24.27	3/22/11	2:20	23.69	3/22/11	6:45	23.09
3/21/11	21:50	24.80	3/21/11	22:43	24.52	3/21/11	23:36	24.27	3/22/11	2:25	23.67	3/22/11	6:50	23.08
3/21/11	21:51	24.78	3/21/11	22:44	24.52	3/21/11	23:37	24.27	3/22/11	2:30	23.66	3/22/11	6:55	23.06
3/21/11	21:52	24.78	3/21/11	22:45	24.52	3/21/11	23:38	24.27	3/22/11	2:35	23.66	3/22/11	7:00	23.09
3/21/11	21:53	24.78	3/21/11	22:46	24.52	3/21/11	23:39	24.25	3/22/11	2:40	23.64	3/22/11	7:05	23.08
3/21/11	21:54	24.77	3/21/11	22:47	24.50	3/21/11	23:40	24.25	3/22/11	2:45	23.62	3/22/11	7:10	23.08
3/21/11	21:55	24.77	3/21/11	22:48	24.50	3/21/11	23:41	24.25	3/22/11	2:50	23.61	3/22/11	7:15	23.06
3/21/11	21:56	24.75	3/21/11	22:49	24.50	3/21/11	23:42	24.25	3/22/11	2:55	23.59	3/22/11	7:20	23.06
3/21/11	21:57	24.75	3/21/11	22:50	24.50	3/21/11	23:43	24.24	3/22/11	3:00	23.59	3/22/11	7:25	23.04
3/21/11	21:58	24.75	3/21/11	22:51	24.49	3/21/11	23:44	24.24	3/22/11	3:05	23.56	3/22/11	7:30	23.04
3/21/11	21:59	24.73	3/21/11	22:52	24.49	3/21/11	23:45	24.22	3/22/11	3:10	23.56	3/22/11	7:35	23.03
3/21/11	22:00	24.75	3/21/11	22:53	24.47	3/21/11	23:46	24.24	3/22/11	3:15	23.54	3/22/11	7:40	23.01
3/21/11	22:01	24.74	3/21/11	22:54	24.47	3/21/11	23:47	24.22	3/22/11	3:20	23.53	3/22/11	7:45	22.99
3/21/11	22:02	24.74	3/21/11	22:55	24.47	3/21/11	23:48	24.22	3/22/11	3:25	23.53	3/22/11	7:50	22.99
3/21/11	22:03	24.74	3/21/11	22:56	24.45	3/21/11	23:49	24.22	3/22/11	3:30	23.51	3/22/11	7:55	22.99
3/21/11	22:04	24.74	3/21/11	22:57	24.45	3/21/11	23:50	24.22	3/22/11	3:35	23.49	3/22/11	8:00	22.99
3/21/11	22:05	24.70	3/21/11	22:58	24.44	3/21/11	23:51	24.22	3/22/11	3:40	23.49	3/22/11	8:05	22.99
3/21/11	22:06	24.70	3/21/11	22:59	24.44	3/21/11	23:52	24.20	3/22/11	3:45	23.46	3/22/11	8:10	22.98
3/21/11	22:07	24.70	3/21/11	23:00	24.42	3/21/11	23:53	24.20	3/22/11	3:50	23.46	3/22/11	8:15	22.98
3/21/11	22:08	24.70	3/21/11	23:01	24.42	3/21/11	23:54	24.20	3/22/11	3:55	23.46	3/22/11	8:20	22.98
3/21/11	22:09	24.70	3/21/11	23:02	24.42	3/21/11	23:55	24.19	3/22/11	4:00	23.44	3/22/11	8:25	22.96
3/21/11	22:10	24.70	3/21/11	23:03	24.42	3/21/11	23:56	24.19	3/22/11	4:05	23.43	3/22/11	8:30	22.95
3/21/11	22:11	24.69	3/21/11	23:04	24.40	3/21/11	23:57	24.19	3/22/11	4:10	23.41	3/22/11	8:35	22.95
3/21/11	22:12	24.69	3/21/11	23:05	24.40	3/21/11	23:58	24.17	3/22/11	4:15	23.39	3/22/11	8:40	22.95
3/21/11	22:13	24.67	3/21/11	23:06	24.40	3/21/11	23:59	24.19	3/22/11	4:20	23.39	3/22/11	8:45	22.95
3/21/11	22:14	24.69	3/21/11	23:07	24.39	3/22/11	0:00	24.16	3/22/11	4:25	23.38	3/22/11	8:50	22.93
3/21/11	22:15	24.67	3/21/11	23:08	24.39	3/22/11	0:05	24.14	3/22/11	4:30	23.36	3/22/11	8:55	22.93
3/21/11	22:16	24.67	3/21/11	23:09	24.39	3/22/11	0:10	24.12	3/22/11	4:35	23.34	3/22/11	9:00	22.93
3/21/11	22:17	24.65	3/21/11	23:10	24.39	3/22/11	0:15	24.11	3/22/11	4:40	23.33	3/22/11	9:05	22.93
3/21/11	22:18	24.65	3/21/11	23:11	24.39	3/22/11	0:20	24.07	3/22/11	4:45	23.33	3/22/11	9:10	22.93
3/21/11	22:19	24.64	3/21/11	23:12	24.37	3/22/11	0:25	24.07	3/22/11	4:50	23.33	3/22/11	9:15	22.91
3/21/11	22:20	24.64	3/21/11	23:13	24.35	3/22/11	0:30	24.04	3/22/11	4:55	23.31	3/22/11	9:20	22.91
3/21/11	22:21	24.64	3/21/11	23:14	24.35	3/22/11	0:35	24.02	3/22/11	5:00	23.31	3/22/11	9:25	22.89
3/21/11	22:22	24.64	3/21/11	23:15	24.35	3/22/11	0:40	24.01	3/22/11	5:05	23.29	3/22/11	9:30	22.89
3/21/11	22:23	24.64	3/21/11	23:16	24.35	3/22/11	0:45	23.99	3/22/11	5:10	23.28	3/22/11	9:35	22.89
3/21/11	22:24	24.62	3/21/11	23:17	24.35	3/22/11	0:50	23.97	3/22/11	5:15	23.28	3/22/11	9:40	22.89

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/22/11	9:45	22.89	3/22/11	14:10	22.63	3/22/11	18:35	22.40	3/22/11	23:00	22.35	3/23/11	3:25	22.33
3/22/11	9:50	22.88	3/22/11	14:15	22.63	3/22/11	18:40	22.40	3/22/11	23:05	22.35	3/23/11	3:30	22.33
3/22/11	9:55	22.88	3/22/11	14:20	22.63	3/22/11	18:45	22.40	3/22/11	23:10	22.35	3/23/11	3:35	22.33
3/22/11	10:00	22.86	3/22/11	14:25	22.61	3/22/11	18:50	22.40	3/22/11	23:15	22.35	3/23/11	3:40	22.33
3/22/11	10:05	22.85	3/22/11	14:30	22.61	3/22/11	18:55	22.38	3/22/11	23:20	22.35	3/23/11	3:45	22.32
3/22/11	10:10	22.85	3/22/11	14:35	22.61	3/22/11	19:00	22.40	3/22/11	23:25	22.35	3/23/11	3:50	22.32
3/22/11	10:15	22.85	3/22/11	14:40	22.61	3/22/11	19:05	22.40	3/22/11	23:30	22.35	3/23/11	3:55	22.32
3/22/11	10:20	22.85	3/22/11	14:45	22.61	3/22/11	19:10	22.40	3/22/11	23:35	22.35	3/23/11	4:00	22.30
3/22/11	10:25	22.83	3/22/11	14:50	22.61	3/22/11	19:15	22.38	3/22/11	23:40	22.35	3/23/11	4:05	22.30
3/22/11	10:30	22.83	3/22/11	14:55	22.60	3/22/11	19:20	22.38	3/22/11	23:45	22.35	3/23/11	4:10	22.28
3/22/11	10:35	22.83	3/22/11	15:00	22.58	3/22/11	19:25	22.38	3/22/11	23:50	22.33	3/23/11	4:15	22.28
3/22/11	10:40	22.83	3/22/11	15:05	22.58	3/22/11	19:30	22.37	3/22/11	23:55	22.33	3/23/11	4:20	22.28
3/22/11	10:45	22.81	3/22/11	15:10	22.56	3/22/11	19:35	22.37	3/23/11	0:00	22.33	3/23/11	4:25	22.28
3/22/11	10:50	22.81	3/22/11	15:15	22.56	3/22/11	19:40	22.37	3/23/11	0:05	22.33	3/23/11	4:30	22.28
3/22/11	10:55	22.81	3/22/11	15:20	22.58	3/22/11	19:45	22.35	3/23/11	0:10	22.33	3/23/11	4:35	22.28
3/22/11	11:00	22.80	3/22/11	15:25	22.56	3/22/11	19:50	22.35	3/23/11	0:15	22.33	3/23/11	4:40	22.28
3/22/11	11:05	22.80	3/22/11	15:30	22.56	3/22/11	19:55	22.35	3/23/11	0:20	22.35	3/23/11	4:45	22.28
3/22/11	11:10	22.80	3/22/11	15:35	22.56	3/22/11	20:00	22.37	3/23/11	0:25	22.33	3/23/11	4:50	22.28
3/22/11	11:15	22.80	3/22/11	15:40	22.56	3/22/11	20:05	22.37	3/23/11	0:30	22.35	3/23/11	4:55	22.28
3/22/11	11:20	22.78	3/22/11	15:45	22.56	3/22/11	20:10	22.37	3/23/11	0:35	22.33	3/23/11	5:00	22.28
3/22/11	11:25	22.78	3/22/11	15:50	22.56	3/22/11	20:15	22.37	3/23/11	0:40	22.33	3/23/11	5:05	22.28
3/22/11	11:30	22.76	3/22/11	15:55	22.56	3/22/11	20:20	22.37	3/23/11	0:45	22.33	3/23/11	5:10	22.27
3/22/11	11:35	22.78	3/22/11	16:00	22.51	3/22/11	20:25	22.35	3/23/11	0:50	22.35	3/23/11	5:15	22.27
3/22/11	11:40	22.76	3/22/11	16:05	22.51	3/22/11	20:30	22.35	3/23/11	0:55	22.33	3/23/11	5:20	22.27
3/22/11	11:45	22.76	3/22/11	16:10	22.51	3/22/11	20:35	22.35	3/23/11	1:00	22.33	3/23/11	5:25	22.27
3/22/11	11:50	22.76	3/22/11	16:15	22.50	3/22/11	20:40	22.33	3/23/11	1:05	22.33	3/23/11	5:30	22.25
3/22/11	11:55	22.75	3/22/11	16:20	22.50	3/22/11	20:45	22.33	3/23/11	1:10	22.33	3/23/11	5:35	22.25
3/22/11	12:00	22.73	3/22/11	16:25	22.50	3/22/11	20:50	22.33	3/23/11	1:15	22.33	3/23/11	5:40	22.25
3/22/11	12:05	22.73	3/22/11	16:30	22.50	3/22/11	20:55	22.33	3/23/11	1:20	22.32	3/23/11	5:45	22.25
3/22/11	12:10	22.71	3/22/11	16:35	22.50	3/22/11	21:00	22.35	3/23/11	1:25	22.33	3/23/11	5:50	22.25
3/22/11	12:15	22.71	3/22/11	16:40	22.48	3/22/11	21:05	22.35	3/23/11	1:30	22.32	3/23/11	5:55	22.25
3/22/11	12:20	22.71	3/22/11	16:45	22.48	3/22/11	21:10	22.35	3/23/11	1:35	22.32	3/23/11	6:00	22.27
3/22/11	12:25	22.71	3/22/11	16:50	22.48	3/22/11	21:15	22.35	3/23/11	1:40	22.33	3/23/11	6:05	22.25
3/22/11	12:30	22.71	3/22/11	16:55	22.46	3/22/11	21:20	22.33	3/23/11	1:45	22.32	3/23/11	6:10	22.25
3/22/11	12:35	22.71	3/22/11	17:00	22.46	3/22/11	21:25	22.33	3/23/11	1:50	22.32	3/23/11	6:15	22.25
3/22/11	12:40	22.71	3/22/11	17:05	22.46	3/22/11	21:30	22.33	3/23/11	1:55	22.32	3/23/11	6:20	22.25
3/22/11	12:45	22.71	3/22/11	17:10	22.46	3/22/11	21:35	22.33	3/23/11	2:00	22.33	3/23/11	6:25	22.25
3/22/11	12:50	22.71	3/22/11	17:15	22.46	3/22/11	21:40	22.32	3/23/11	2:05	22.33	3/23/11	6:30	22.23
3/22/11	12:55	22.71	3/22/11	17:20	22.46	3/22/11	21:45	22.32	3/23/11	2:10	22.33	3/23/11	6:35	22.23
3/22/11	13:00	22.68	3/22/11	17:25	22.46	3/22/11	21:50	22.32	3/23/11	2:15	22.33	3/23/11	6:40	22.23
3/22/11	13:05	22.68	3/22/11	17:30	22.45	3/22/11	21:55	22.32	3/23/11	2:20	22.33	3/23/11	6:45	22.23
3/22/11	13:10	22.68	3/22/11	17:35	22.45	3/22/11	22:00	22.35	3/23/11	2:25	22.33	3/23/11	6:50	22.23
3/22/11	13:15	22.68	3/22/11	17:40	22.45	3/22/11	22:05	22.35	3/23/11	2:30	22.33	3/23/11	6:55	22.23
3/22/11	13:20	22.68	3/22/11	17:45	22.43	3/22/11	22:10	22.35	3/23/11	2:35	22.33	3/23/11	7:00	22.23
3/22/11	13:25	22.68	3/22/11	17:50	22.43	3/22/11	22:15	22.35	3/23/11	2:40	22.33	3/23/11	7:05	22.22
3/22/11	13:30	22.68	3/22/11	17:55	22.43	3/22/11	22:20	22.35	3/23/11	2:45	22.33	3/23/11	7:10	22.22
3/22/11	13:35	22.68	3/22/11	18:00	22.43	3/22/11	22:25	22.35	3/23/11	2:50	22.33	3/23/11	7:15	22.22
3/22/11	13:40	22.66	3/22/11	18:05	22.43	3/22/11	22:30	22.35	3/23/11	2:55	22.32	3/23/11	7:20	22.20
3/22/11	13:45	22.66	3/22/11	18:10	22.41	3/22/11	22:35	22.35	3/23/11	3:00	22.33	3/23/11	7:25	22.22
3/22/11	13:50	22.66	3/22/11	18:15	22.41	3/22/11	22:40	22.35	3/23/11	3:05	22.33	3/23/11	7:30	22.20
3/22/11	13:55	22.66	3/22/11	18:20	22.41	3/22/11	22:45	22.35	3/23/11	3:10	22.32	3/23/11	7:35	22.20
3/22/11	14:00	22.63	3/22/11	18:25	22.40	3/22/11	22:50	22.35	3/23/11	3:15	22.32	3/23/11	7:40	22.20
3/22/11	14:05	22.63	3/22/11	18:30	22.40	3/22/11	22:55	22.35	3/23/11	3:20	22.33	3/23/11	7:45	22.18

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/23/11	7:50	22.18	3/23/11	12:15	22.15	3/23/11	16:40	22.08	3/23/11	21:05	22.03	3/24/11	1:30	22.08
3/23/11	7:55	22.18	3/23/11	12:20	22.17	3/23/11	16:45	22.08	3/23/11	21:10	22.03	3/24/11	1:35	22.10
3/23/11	8:00	22.20	3/23/11	12:25	22.15	3/23/11	16:50	22.08	3/23/11	21:15	22.03	3/24/11	1:40	22.10
3/23/11	8:05	22.18	3/23/11	12:30	22.17	3/23/11	16:55	22.08	3/23/11	21:20	22.03	3/24/11	1:45	22.10
3/23/11	8:10	22.20	3/23/11	12:35	22.17	3/23/11	17:00	22.08	3/23/11	21:25	22.03	3/24/11	1:50	22.10
3/23/11	8:15	22.18	3/23/11	12:40	22.17	3/23/11	17:05	22.08	3/23/11	21:30	22.03	3/24/11	1:55	22.10
3/23/11	8:20	22.18	3/23/11	12:45	22.17	3/23/11	17:10	22.08	3/23/11	21:35	22.03	3/24/11	2:00	22.08
3/23/11	8:25	22.18	3/23/11	12:50	22.17	3/23/11	17:15	22.08	3/23/11	21:40	22.03	3/24/11	2:05	22.08
3/23/11	8:30	22.18	3/23/11	12:55	22.17	3/23/11	17:20	22.08	3/23/11	21:45	22.03	3/24/11	2:10	22.08
3/23/11	8:35	22.18	3/23/11	13:00	22.15	3/23/11	17:25	22.08	3/23/11	21:50	22.02	3/24/11	2:15	22.08
3/23/11	8:40	22.18	3/23/11	13:05	22.15	3/23/11	17:30	22.07	3/23/11	21:55	22.02	3/24/11	2:20	22.08
3/23/11	8:45	22.18	3/23/11	13:10	22.15	3/23/11	17:35	22.08	3/23/11	22:00	22.07	3/24/11	2:25	22.08
3/23/11	8:50	22.18	3/23/11	13:15	22.15	3/23/11	17:40	22.07	3/23/11	22:05	22.05	3/24/11	2:30	22.08
3/23/11	8:55	22.18	3/23/11	13:20	22.17	3/23/11	17:45	22.08	3/23/11	22:10	22.03	3/24/11	2:35	22.08
3/23/11	9:00	22.18	3/23/11	13:25	22.17	3/23/11	17:50	22.07	3/23/11	22:15	22.03	3/24/11	2:40	22.08
3/23/11	9:05	22.18	3/23/11	13:30	22.17	3/23/11	17:55	22.07	3/23/11	22:20	22.05	3/24/11	2:45	22.08
3/23/11	9:10	22.18	3/23/11	13:35	22.17	3/23/11	18:00	22.07	3/23/11	22:25	22.05	3/24/11	2:50	22.08
3/23/11	9:15	22.18	3/23/11	13:40	22.17	3/23/11	18:05	22.07	3/23/11	22:30	22.05	3/24/11	2:55	22.08
3/23/11	9:20	22.18	3/23/11	13:45	22.15	3/23/11	18:10	22.07	3/23/11	22:35	22.05	3/24/11	3:00	22.08
3/23/11	9:25	22.18	3/23/11	13:50	22.17	3/23/11	18:15	22.07	3/23/11	22:40	22.03	3/24/11	3:05	22.08
3/23/11	9:30	22.18	3/23/11	13:55	22.15	3/23/11	18:20	22.07	3/23/11	22:45	22.05	3/24/11	3:10	22.10
3/23/11	9:35	22.17	3/23/11	14:00	22.15	3/23/11	18:25	22.07	3/23/11	22:50	22.05	3/24/11	3:15	22.08
3/23/11	9:40	22.17	3/23/11	14:05	22.13	3/23/11	18:30	22.07	3/23/11	22:55	22.05	3/24/11	3:20	22.08
3/23/11	9:45	22.17	3/23/11	14:10	22.15	3/23/11	18:35	22.05	3/23/11	23:00	22.07	3/24/11	3:25	22.08
3/23/11	9:50	22.17	3/23/11	14:15	22.15	3/23/11	18:40	22.05	3/23/11	23:05	22.07	3/24/11	3:30	22.08
3/23/11	9:55	22.17	3/23/11	14:20	22.15	3/23/11	18:45	22.07	3/23/11	23:10	22.07	3/24/11	3:35	22.08
3/23/11	10:00	22.17	3/23/11	14:25	22.15	3/23/11	18:50	22.05	3/23/11	23:15	22.07	3/24/11	3:40	22.08
3/23/11	10:05	22.17	3/23/11	14:30	22.15	3/23/11	18:55	22.05	3/23/11	23:20	22.07	3/24/11	3:45	22.08
3/23/11	10:10	22.17	3/23/11	14:35	22.15	3/23/11	19:00	22.05	3/23/11	23:25	22.07	3/24/11	3:50	22.07
3/23/11	10:15	22.17	3/23/11	14:40	22.15	3/23/11	19:05	22.05	3/23/11	23:30	22.07	3/24/11	3:55	22.08
3/23/11	10:20	22.17	3/23/11	14:45	22.15	3/23/11	19:10	22.03	3/23/11	23:35	22.08	3/24/11	4:00	22.08
3/23/11	10:25	22.17	3/23/11	14:50	22.15	3/23/11	19:15	22.03	3/23/11	23:40	22.08	3/24/11	4:05	22.08
3/23/11	10:30	22.17	3/23/11	14:55	22.15	3/23/11	19:20	22.03	3/23/11	23:45	22.08	3/24/11	4:10	22.08
3/23/11	10:35	22.17	3/23/11	15:00	22.12	3/23/11	19:25	22.03	3/23/11	23:50	22.08	3/24/11	4:15	22.08
3/23/11	10:40	22.17	3/23/11	15:05	22.12	3/23/11	19:30	22.03	3/23/11	23:55	22.07	3/24/11	4:20	22.08
3/23/11	10:45	22.17	3/23/11	15:10	22.12	3/23/11	19:35	22.03	3/24/11	0:00	22.08	3/24/11	4:25	22.08
3/23/11	10:50	22.17	3/23/11	15:15	22.12	3/23/11	19:40	22.03	3/24/11	0:05	22.07	3/24/11	4:30	22.08
3/23/11	10:55	22.17	3/23/11	15:20	22.12	3/23/11	19:45	22.03	3/24/11	0:10	22.08	3/24/11	4:35	22.07
3/23/11	11:00	22.17	3/23/11	15:25	22.12	3/23/11	19:50	22.03	3/24/11	0:15	22.08	3/24/11	4:40	22.08
3/23/11	11:05	22.17	3/23/11	15:30	22.12	3/23/11	19:55	22.03	3/24/11	0:20	22.08	3/24/11	4:45	22.08
3/23/11	11:10	22.15	3/23/11	15:35	22.12	3/23/11	20:00	22.05	3/24/11	0:25	22.07	3/24/11	4:50	22.08
3/23/11	11:15	22.15	3/23/11	15:40	22.12	3/23/11	20:05	22.05	3/24/11	0:30	22.08	3/24/11	4:55	22.07
3/23/11	11:20	22.17	3/23/11	15:45	22.12	3/23/11	20:10	22.05	3/24/11	0:35	22.08	3/24/11	5:00	22.07
3/23/11	11:25	22.17	3/23/11	15:50	22.12	3/23/11	20:15	22.05	3/24/11	0:40	22.08	3/24/11	5:05	22.07
3/23/11	11:30	22.15	3/23/11	15:55	22.12	3/23/11	20:20	22.05	3/24/11	0:45	22.08	3/24/11	5:10	22.08
3/23/11	11:35	22.17	3/23/11	16:00	22.10	3/23/11	20:25	22.05	3/24/11	0:50	22.08	3/24/11	5:15	22.07
3/23/11	11:40	22.15	3/23/11	16:05	22.10	3/23/11	20:30	22.03	3/24/11	0:55	22.08	3/24/11	5:20	22.07
3/23/11	11:45	22.17	3/23/11	16:10	22.10	3/23/11	20:35	22.03	3/24/11	1:00	22.08	3/24/11	5:25	22.07
3/23/11	11:50	22.15	3/23/11	16:15	22.10	3/23/11	20:40	22.03	3/24/11	1:05	22.08	3/24/11	5:30	22.07
3/23/11	11:55	22.17	3/23/11	16:20	22.10	3/23/11	20:45	22.03	3/24/11	1:10	22.08	3/24/11	5:35	22.07
3/23/11	12:00	22.15	3/23/11	16:25	22.10	3/23/11	20:50	22.03	3/24/11	1:15	22.08	3/24/11	5:40	22.07
3/23/11	12:05	22.17	3/23/11	16:30	22.08	3/23/11	20:55	22.02	3/24/11	1:20	22.08	3/24/11	5:45	22.07
3/23/11	12:10	22.17	3/23/11	16:35	22.08	3/23/11	21:00	22.03	3/24/11	1:25	22.10	3/24/11	5:50	22.07

TABLE A.1-3. TRANSDUCER DATA FOR OBSERVATION WELL 1072, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/24/11	5:55	22.05	3/23/11	22:20	22.05	3/24/11	2:45	22.08	3/24/11	7:10	22.05			
3/24/11	6:00	22.05	3/23/11	22:25	22.05	3/24/11	2:50	22.08	3/24/11	7:15	22.03			
3/24/11	6:05	22.05	3/23/11	22:30	22.05	3/24/11	2:55	22.08	3/24/11	7:20	22.03			
3/24/11	6:10	22.05	3/23/11	22:35	22.05	3/24/11	3:00	22.08	3/24/11	7:25	22.03			
3/24/11	6:15	22.05	3/23/11	22:40	22.03	3/24/11	3:05	22.08	3/24/11	7:30	22.03			
3/24/11	6:20	22.03	3/23/11	22:45	22.05	3/24/11	3:10	22.10	3/24/11	7:35	22.03			
3/24/11	6:25	22.03	3/23/11	22:50	22.05	3/24/11	3:15	22.08	3/24/11	7:40	22.03			
3/24/11	6:30	22.03	3/23/11	22:55	22.05	3/24/11	3:20	22.08	3/24/11	7:45	22.02			
3/24/11	6:35	22.03	3/23/11	23:00	22.07	3/24/11	3:25	22.08	3/24/11	7:50	22.02			
3/24/11	6:40	22.03	3/23/11	23:05	22.07	3/24/11	3:30	22.08	3/24/11	7:55	22.02			
3/24/11	6:45	22.03	3/23/11	23:10	22.07	3/24/11	3:35	22.08	3/24/11	8:00	22.05			
3/24/11	6:50	22.03	3/23/11	23:15	22.07	3/24/11	3:40	22.08	3/24/11	8:05	22.05			
3/24/11	6:55	22.03	3/23/11	23:20	22.07	3/24/11	3:45	22.08	3/24/11	8:10	22.05			
3/24/11	7:00	22.05	3/23/11	23:25	22.07	3/24/11	3:50	22.07	3/24/11	8:15	22.03			
3/24/11	7:05	22.05	3/23/11	23:30	22.07	3/24/11	3:55	22.08	3/24/11	8:20	22.03			
3/24/11	7:10	22.05	3/23/11	23:35	22.08	3/24/11	4:00	22.08	3/24/11	8:25	22.03			
3/24/11	7:15	22.03	3/23/11	23:40	22.08	3/24/11	4:05	22.08	3/24/11	8:30	22.03			
3/24/11	7:20	22.03	3/23/11	23:45	22.08	3/24/11	4:10	22.08	3/24/11	8:35	22.02			
3/24/11	7:25	22.03	3/23/11	23:50	22.08	3/24/11	4:15	22.08	3/24/11	8:40	22.02			
3/24/11	7:30	22.03	3/23/11	23:55	22.07	3/24/11	4:20	22.08	3/24/11	8:45	22.02			
3/24/11	7:35	22.03	3/24/11	0:00	22.08	3/24/11	4:25	22.08	3/24/11	8:50	22.02			
3/24/11	7:40	22.03	3/24/11	0:05	22.07	3/24/11	4:30	22.08	3/24/11	8:55	22.02			
3/24/11	7:45	22.02	3/24/11	0:10	22.08	3/24/11	4:35	22.07	3/24/11	9:00	22.03			
3/24/11	7:50	22.02	3/24/11	0:15	22.08	3/24/11	4:40	22.08	3/24/11	9:05	22.03			
3/24/11	7:55	22.02	3/24/11	0:20	22.08	3/24/11	4:45	22.08	3/24/11	9:10	22.03			
3/24/11	8:00	22.05	3/24/11	0:25	22.07	3/24/11	4:50	22.08	3/24/11	9:15	22.03			
3/24/11	8:05	22.05	3/24/11	0:30	22.08	3/24/11	4:55	22.07	3/24/11	9:20	22.03			
3/24/11	8:10	22.05	3/24/11	0:35	22.08	3/24/11	5:00	22.07	3/24/11	9:25	22.03			
3/24/11	8:15	22.03	3/24/11	0:40	22.08	3/24/11	5:05	22.07	3/24/11	9:30	22.03			
3/24/11	8:20	22.03	3/24/11	0:45	22.08	3/24/11	5:10	22.08	3/24/11	9:35	22.03			
3/24/11	8:25	22.03	3/24/11	0:50	22.08	3/24/11	5:15	22.07	3/24/11	9:40	22.03			
3/24/11	8:30	22.03	3/24/11	0:55	22.08	3/24/11	5:20	22.07	3/24/11	9:45	22.03			
3/24/11	8:35	22.02	3/24/11	1:00	22.08	3/24/11	5:25	22.07	3/24/11	9:50	22.03			
3/24/11	8:40	22.02	3/24/11	1:05	22.08	3/24/11	5:30	22.07	3/24/11	9:55	22.03			
3/24/11	8:45	22.02	3/24/11	1:10	22.08	3/24/11	5:35	22.07	3/24/11	10:00	22.05			
3/24/11	8:50	22.02	3/24/11	1:15	22.08	3/24/11	5:40	22.07	3/24/11	10:05	22.03			
3/24/11	8:55	22.02	3/24/11	1:20	22.08	3/24/11	5:45	22.07	3/24/11	10:10	22.05			
3/24/11	9:00	22.03	3/24/11	1:25	22.10	3/24/11	5:50	22.07						
3/24/11	9:05	22.03	3/24/11	1:30	22.08	3/24/11	5:55	22.05						
3/24/11	9:10	22.03	3/24/11	1:35	22.10	3/24/11	6:00	22.05						
3/24/11	9:15	22.03	3/24/11	1:40	22.10	3/24/11	6:05	22.05						
3/24/11	9:20	22.03	3/24/11	1:45	22.10	3/24/11	6:10	22.05						
3/24/11	9:25	22.03	3/24/11	1:50	22.10	3/24/11	6:15	22.05						
3/24/11	9:30	22.03	3/24/11	1:55	22.10	3/24/11	6:20	22.03						
3/24/11	9:35	22.03	3/24/11	2:00	22.08	3/24/11	6:25	22.03						
3/24/11	9:40	22.03	3/24/11	2:05	22.08	3/24/11	6:30	22.03						
3/24/11	9:45	22.03	3/24/11	2:10	22.08	3/24/11	6:35	22.03						
3/24/11	9:50	22.03	3/24/11	2:15	22.08	3/24/11	6:40	22.03						
3/24/11	9:55	22.03	3/24/11	2:20	22.08	3/24/11	6:45	22.03						
3/24/11	10:00	22.05	3/24/11	2:25	22.08	3/24/11	6:50	22.03						
3/24/11	10:05	22.03	3/24/11	2:30	22.08	3/24/11	6:55	22.03						
3/24/11	10:10	22.05	3/24/11	2:35	22.08	3/24/11	7:00	22.05						
3/23/11	22:15	22.03	3/24/11	2:40	22.08	3/24/11	7:05	22.05						

TABLE A.1-4. TRANSDUCER DATA FOR OBSERVATION WELL 1005.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/18/11	14:50	23.10	3/18/11	19:15	22.95	3/18/11	23:40	23.05	3/19/11	4:05	23.02	3/19/11	8:30	23.01
3/18/11	14:55	23.10	3/18/11	19:20	22.95	3/18/11	23:45	23.05	3/19/11	4:10	23.00	3/19/11	8:35	23.01
3/18/11	15:00	23.12	3/18/11	19:25	22.95	3/18/11	23:50	23.05	3/19/11	4:15	23.00	3/19/11	8:40	23.01
3/18/11	15:05	23.12	3/18/11	19:30	22.95	3/18/11	23:55	23.07	3/19/11	4:20	23.00	3/19/11	8:45	23.01
3/18/11	15:10	23.10	3/18/11	19:35	22.95	3/19/11	0:00	23.07	3/19/11	4:25	23.00	3/19/11	8:50	23.01
3/18/11	15:15	23.10	3/18/11	19:40	22.93	3/19/11	0:05	23.07	3/19/11	4:30	23.00	3/19/11	8:55	23.01
3/18/11	15:20	23.10	3/18/11	19:45	22.93	3/19/11	0:10	23.07	3/19/11	4:35	23.00	3/19/11	9:00	23.03
3/18/11	15:25	23.09	3/18/11	19:50	22.93	3/19/11	0:15	23.07	3/19/11	4:40	23.00	3/19/11	9:05	23.03
3/18/11	15:30	23.07	3/18/11	19:55	22.93	3/19/11	0:20	23.08	3/19/11	4:45	23.00	3/19/11	9:10	23.03
3/18/11	15:35	23.07	3/18/11	20:00	22.95	3/19/11	0:25	23.08	3/19/11	4:50	23.00	3/19/11	9:15	23.03
3/18/11	15:40	23.05	3/18/11	20:05	22.95	3/19/11	0:30	23.07	3/19/11	4:55	22.98	3/19/11	9:20	23.03
3/18/11	15:45	23.03	3/18/11	20:10	22.95	3/19/11	0:35	23.07	3/19/11	5:00	23.00	3/19/11	9:25	23.03
3/18/11	15:50	23.03	3/18/11	20:15	22.97	3/19/11	0:40	23.07	3/19/11	5:05	23.00	3/19/11	9:30	23.03
3/18/11	15:55	23.03	3/18/11	20:20	22.95	3/19/11	0:45	23.08	3/19/11	5:10	23.00	3/19/11	9:35	23.03
3/18/11	16:00	23.00	3/18/11	20:25	22.97	3/19/11	0:50	23.08	3/19/11	5:15	23.00	3/19/11	9:40	23.03
3/18/11	16:05	23.00	3/18/11	20:30	22.95	3/19/11	0:55	23.08	3/19/11	5:20	23.00	3/19/11	9:45	23.05
3/18/11	16:10	23.00	3/18/11	20:35	22.97	3/19/11	1:00	23.08	3/19/11	5:25	23.00	3/19/11	9:50	23.05
3/18/11	16:15	22.98	3/18/11	20:40	22.97	3/19/11	1:05	23.08	3/19/11	5:30	23.00	3/19/11	9:55	23.05
3/18/11	16:20	22.95	3/18/11	20:45	22.97	3/19/11	1:10	23.08	3/19/11	5:35	23.00	3/19/11	10:00	23.05
3/18/11	16:25	22.95	3/18/11	20:50	22.97	3/19/11	1:15	23.08	3/19/11	5:40	22.98	3/19/11	10:05	23.05
3/18/11	16:30	22.95	3/18/11	20:55	22.97	3/19/11	1:20	23.07	3/19/11	5:45	22.98	3/19/11	10:10	23.06
3/18/11	16:35	22.95	3/18/11	21:00	23.00	3/19/11	1:25	23.07	3/19/11	5:50	22.98	3/19/11	10:15	23.06
3/18/11	16:40	22.95	3/18/11	21:05	23.00	3/19/11	1:30	23.07	3/19/11	5:55	22.98	3/19/11	10:20	23.06
3/18/11	16:45	22.95	3/18/11	21:10	23.00	3/19/11	1:35	23.07	3/19/11	6:00	22.98	3/19/11	10:25	23.06
3/18/11	16:50	22.95	3/18/11	21:15	23.00	3/19/11	1:40	23.07	3/19/11	6:05	22.98	3/19/11	10:30	23.06
3/18/11	16:55	22.95	3/18/11	21:20	23.00	3/19/11	1:45	23.07	3/19/11	6:10	22.98	3/19/11	10:35	23.06
3/18/11	17:00	22.95	3/18/11	21:25	23.00	3/19/11	1:50	23.07	3/19/11	6:15	22.98	3/19/11	10:40	23.06
3/18/11	17:05	22.95	3/18/11	21:30	23.00	3/19/11	1:55	23.07	3/19/11	6:20	22.98	3/19/11	10:45	23.06
3/18/11	17:10	22.93	3/18/11	21:35	23.00	3/19/11	2:00	23.05	3/19/11	6:25	22.98	3/19/11	10:50	23.08
3/18/11	17:15	22.93	3/18/11	21:40	23.00	3/19/11	2:05	23.05	3/19/11	6:30	22.98	3/19/11	10:55	23.06
3/18/11	17:20	22.93	3/18/11	21:45	23.00	3/19/11	2:10	23.05	3/19/11	6:35	22.98	3/19/11	11:00	23.06
3/18/11	17:25	22.93	3/18/11	21:50	23.00	3/19/11	2:15	23.05	3/19/11	6:40	22.98	3/19/11	11:05	23.06
3/18/11	17:30	22.93	3/18/11	21:55	23.00	3/19/11	2:20	23.05	3/19/11	6:45	22.98	3/19/11	11:10	23.06
3/18/11	17:35	22.93	3/18/11	22:00	23.03	3/19/11	2:25	23.05	3/19/11	6:50	22.98	3/19/11	11:15	23.06
3/18/11	17:40	22.95	3/18/11	22:05	23.03	3/19/11	2:30	23.05	3/19/11	6:55	22.98	3/19/11	11:20	23.06
3/18/11	17:45	22.93	3/18/11	22:10	23.03	3/19/11	2:35	23.05	3/19/11	7:00	22.98	3/19/11	11:25	23.06
3/18/11	17:50	22.93	3/18/11	22:15	23.03	3/19/11	2:40	23.05	3/19/11	7:05	22.98	3/19/11	11:30	23.06
3/18/11	17:55	22.93	3/18/11	22:20	23.03	3/19/11	2:45	23.05	3/19/11	7:10	22.98	3/19/11	11:35	23.08
3/18/11	18:00	22.88	3/18/11	22:25	23.03	3/19/11	2:50	23.05	3/19/11	7:15	22.98	3/19/11	11:40	23.06
3/18/11	18:05	22.88	3/18/11	22:30	23.03	3/19/11	2:55	23.05	3/19/11	7:20	22.98	3/19/11	11:45	23.06
3/18/11	18:10	22.88	3/18/11	22:35	23.03	3/19/11	3:00	23.05	3/19/11	7:25	22.98	3/19/11	11:50	23.08
3/18/11	18:15	22.88	3/18/11	22:40	23.03	3/19/11	3:05	23.05	3/19/11	7:30	22.98	3/19/11	11:55	23.08
3/18/11	18:20	22.90	3/18/11	22:45	23.03	3/19/11	3:10	23.05	3/19/11	7:35	22.98	3/19/11	12:00	23.07
3/18/11	18:25	22.90	3/18/11	22:50	23.03	3/19/11	3:15	23.03	3/19/11	7:40	22.98	3/19/11	12:05	23.07
3/18/11	18:30	22.88	3/18/11	22:55	23.03	3/19/11	3:20	23.05	3/19/11	7:45	22.98	3/19/11	12:10	23.07
3/18/11	18:35	22.90	3/18/11	23:00	23.07	3/19/11	3:25	23.03	3/19/11	7:50	22.96	3/19/11	12:15	23.07
3/18/11	18:40	22.88	3/18/11	23:05	23.05	3/19/11	3:30	23.03	3/19/11	7:55	22.98	3/19/11	12:20	23.07
3/18/11	18:45	22.90	3/18/11	23:10	23.05	3/19/11	3:35	23.03	3/19/11	8:00	23.00	3/19/11	12:25	23.07
3/18/11	18:50	22.88	3/18/11	23:15	23.05	3/19/11	3:40	23.03	3/19/11	8:05	23.01	3/19/11	12:30	23.07
3/18/11	18:55	22.90	3/18/11	23:20	23.07	3/19/11	3:45	23.03	3/19/11	8:10	23.01	3/19/11	12:35	23.07
3/18/11	19:00	22.95	3/18/11	23:25	23.07	3/19/11	3:50	23.03	3/19/11	8:15	23.01	3/19/11	12:40	23.07
3/18/11	19:05	22.95	3/18/11	23:30	23.05	3/19/11	3:55	23.03	3/19/11	8:20	23.01	3/19/11	12:45	23.07
3/18/11	19:10	22.95	3/18/11	23:35	23.05	3/19/11	4:00	23.02	3/19/11	8:25	23.01	3/19/11	12:50	23.07

TABLE A.1-4. TRANSDUCER DATA FOR OBSERVATION WELL 1005, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/19/11	12:55	23.08	3/19/11	17:20	23.90	3/19/11	21:45	30.72	3/20/11	2:10	32.89	3/20/11	6:35	33.74
3/19/11	13:00	23.05	3/19/11	17:25	24.00	3/19/11	21:50	30.79	3/20/11	2:15	32.93	3/20/11	6:40	33.72
3/19/11	13:05	23.07	3/19/11	17:30	24.10	3/19/11	21:55	30.86	3/20/11	2:20	32.94	3/20/11	6:45	33.74
3/19/11	13:10	23.07	3/19/11	17:35	24.24	3/19/11	22:00	30.94	3/20/11	2:25	32.96	3/20/11	6:50	33.74
3/19/11	13:15	23.07	3/19/11	17:40	24.39	3/19/11	22:05	30.99	3/20/11	2:30	32.99	3/20/11	6:55	33.74
3/19/11	13:20	23.07	3/19/11	17:45	24.56	3/19/11	22:10	31.04	3/20/11	2:35	33.01	3/20/11	7:00	33.77
3/19/11	13:25	23.07	3/19/11	17:50	24.75	3/19/11	22:15	31.11	3/20/11	2:40	33.03	3/20/11	7:05	33.79
3/19/11	13:30	23.07	3/19/11	17:55	24.93	3/19/11	22:20	31.16	3/20/11	2:45	33.06	3/20/11	7:10	33.79
3/19/11	13:35	23.07	3/19/11	18:00	25.49	3/19/11	22:25	31.21	3/20/11	2:50	33.08	3/20/11	7:15	33.81
3/19/11	13:40	23.07	3/19/11	18:05	25.69	3/19/11	22:30	31.26	3/20/11	2:55	33.10	3/20/11	7:20	33.82
3/19/11	13:45	23.07	3/19/11	18:10	25.88	3/19/11	22:35	31.32	3/20/11	3:00	33.11	3/20/11	7:25	33.84
3/19/11	13:50	23.07	3/19/11	18:15	26.06	3/19/11	22:40	31.35	3/20/11	3:05	33.11	3/20/11	7:30	33.84
3/19/11	13:55	23.07	3/19/11	18:20	26.25	3/19/11	22:45	31.42	3/20/11	3:10	33.15	3/20/11	7:35	33.86
3/19/11	14:00	23.03	3/19/11	18:25	26.44	3/19/11	22:50	31.45	3/20/11	3:15	33.16	3/20/11	7:40	33.87
3/19/11	14:05	23.03	3/19/11	18:30	26.60	3/19/11	22:55	31.50	3/20/11	3:20	33.18	3/20/11	7:45	33.89
3/19/11	14:10	23.03	3/19/11	18:35	26.77	3/19/11	23:00	31.57	3/20/11	3:25	33.20	3/20/11	7:50	33.91
3/19/11	14:15	23.05	3/19/11	18:40	26.94	3/19/11	23:05	31.60	3/20/11	3:30	33.23	3/20/11	7:55	33.92
3/19/11	14:20	23.08	3/19/11	18:45	27.10	3/19/11	23:10	31.65	3/20/11	3:35	33.25	3/20/11	8:00	33.96
3/19/11	14:25	23.15	3/19/11	18:50	27.25	3/19/11	23:15	31.71	3/20/11	3:40	33.26	3/20/11	8:05	33.98
3/19/11	14:30	23.25	3/19/11	18:55	27.40	3/19/11	23:20	31.74	3/20/11	3:45	33.28	3/20/11	8:10	33.98
3/19/11	14:35	23.37	3/19/11	19:00	27.55	3/19/11	23:25	31.77	3/20/11	3:50	33.30	3/20/11	8:15	34.01
3/19/11	14:40	23.49	3/19/11	19:05	27.69	3/19/11	23:30	31.82	3/20/11	3:55	33.32	3/20/11	8:20	34.03
3/19/11	14:45	23.64	3/19/11	19:10	27.82	3/19/11	23:35	31.87	3/20/11	4:00	33.33	3/20/11	8:25	34.04
3/19/11	14:50	23.80	3/19/11	19:15	27.96	3/19/11	23:40	31.91	3/20/11	4:05	33.35	3/20/11	8:30	34.04
3/19/11	14:55	23.95	3/19/11	19:20	28.08	3/19/11	23:45	31.96	3/20/11	4:10	33.37	3/20/11	8:35	34.06
3/19/11	15:00	24.07	3/19/11	19:25	28.20	3/19/11	23:50	31.99	3/20/11	4:15	33.37	3/20/11	8:40	34.08
3/19/11	15:05	24.20	3/19/11	19:30	28.33	3/19/11	23:55	32.03	3/20/11	4:20	33.38	3/20/11	8:45	34.08
3/19/11	15:10	24.30	3/19/11	19:35	28.45	3/20/11	0:00	32.06	3/20/11	4:25	33.40	3/20/11	8:50	34.09
3/19/11	15:15	24.39	3/19/11	19:40	28.55	3/20/11	0:05	32.11	3/20/11	4:30	33.42	3/20/11	8:55	34.11
3/19/11	15:20	24.44	3/19/11	19:45	28.67	3/20/11	0:10	32.15	3/20/11	4:35	33.43	3/20/11	9:00	34.14
3/19/11	15:25	24.46	3/19/11	19:50	28.77	3/20/11	0:15	32.18	3/20/11	4:40	33.45	3/20/11	9:05	34.16
3/19/11	15:30	24.47	3/19/11	19:55	28.88	3/20/11	0:20	32.21	3/20/11	4:45	33.47	3/20/11	9:10	34.18
3/19/11	15:35	24.47	3/19/11	20:00	28.99	3/20/11	0:25	32.25	3/20/11	4:50	33.49	3/20/11	9:15	34.20
3/19/11	15:40	24.47	3/19/11	20:05	29.08	3/20/11	0:30	32.28	3/20/11	4:55	33.50	3/20/11	9:20	34.21
3/19/11	15:45	24.46	3/19/11	20:10	29.18	3/20/11	0:35	32.32	3/20/11	5:00	33.52	3/20/11	9:25	34.21
3/19/11	15:50	24.44	3/19/11	20:15	29.28	3/20/11	0:40	32.35	3/20/11	5:05	33.52	3/20/11	9:30	34.23
3/19/11	15:55	24.44	3/19/11	20:20	29.38	3/20/11	0:45	32.38	3/20/11	5:10	33.54	3/20/11	9:35	34.25
3/19/11	16:00	24.37	3/19/11	20:25	29.47	3/20/11	0:50	32.42	3/20/11	5:15	33.55	3/20/11	9:40	34.26
3/19/11	16:05	24.34	3/19/11	20:30	29.55	3/20/11	0:55	32.45	3/20/11	5:20	33.55	3/20/11	9:45	34.26
3/19/11	16:10	24.31	3/19/11	20:35	29.66	3/20/11	1:00	32.49	3/20/11	5:25	33.57	3/20/11	9:50	34.28
3/19/11	16:15	24.27	3/19/11	20:40	29.74	3/20/11	1:05	32.52	3/20/11	5:30	33.59	3/20/11	9:55	34.28
3/19/11	16:20	24.24	3/19/11	20:45	29.82	3/20/11	1:10	32.55	3/20/11	5:35	33.59	3/20/11	10:00	34.30
3/19/11	16:25	24.22	3/19/11	20:50	29.91	3/20/11	1:15	32.59	3/20/11	5:40	33.60	3/20/11	10:05	34.31
3/19/11	16:30	24.17	3/19/11	20:55	29.99	3/20/11	1:20	32.60	3/20/11	5:45	33.62	3/20/11	10:10	34.33
3/19/11	16:35	24.14	3/19/11	21:00	30.10	3/20/11	1:25	32.64	3/20/11	5:50	33.64	3/20/11	10:15	34.35
3/19/11	16:40	24.10	3/19/11	21:05	30.16	3/20/11	1:30	32.65	3/20/11	5:55	33.65	3/20/11	10:20	34.35
3/19/11	16:45	24.03	3/19/11	21:10	30.25	3/20/11	1:35	32.71	3/20/11	6:00	33.67	3/20/11	10:25	34.36
3/19/11	16:50	24.02	3/19/11	21:15	30.32	3/20/11	1:40	32.72	3/20/11	6:05	33.67	3/20/11	10:30	34.38
3/19/11	16:55	23.97	3/19/11	21:20	30.38	3/20/11	1:45	32.76	3/20/11	6:10	33.69	3/20/11	10:35	34.40
3/19/11	17:00	23.90	3/19/11	21:25	30.45	3/20/11	1:50	32.79	3/20/11	6:15	33.71	3/20/11	10:40	34.40
3/19/11	17:05	23.87	3/19/11	21:30	30.52	3/20/11	1:55	32.81	3/20/11	6:20	33.72	3/20/11	10:45	34.42
3/19/11	17:10	23.83	3/19/11	21:35	30.59	3/20/11	2:00	32.84	3/20/11	6:25	33.72	3/20/11	10:50	34.42
3/19/11	17:15	23.85	3/19/11	21:40	30.66	3/20/11	2:05	32.86	3/20/11	6:30	33.72	3/20/11	10:55	34.45

TABLE A.1-4. TRANSDUCER DATA FOR OBSERVATION WELL 1005, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	11:00	34.43	3/20/11	15:25	34.81	3/20/11	19:50	35.01	3/21/11	0:15	35.37	3/21/11	4:40	35.54
3/20/11	11:05	34.45	3/20/11	15:30	34.81	3/20/11	19:55	35.01	3/21/11	0:20	35.37	3/21/11	4:45	35.54
3/20/11	11:10	34.47	3/20/11	15:35	34.83	3/20/11	20:00	35.01	3/21/11	0:25	35.38	3/21/11	4:50	35.54
3/20/11	11:15	34.47	3/20/11	15:40	34.83	3/20/11	20:05	35.01	3/21/11	0:30	35.38	3/21/11	4:55	35.54
3/20/11	11:20	34.48	3/20/11	15:45	34.83	3/20/11	20:10	35.01	3/21/11	0:35	35.38	3/21/11	5:00	35.55
3/20/11	11:25	34.48	3/20/11	15:50	34.83	3/20/11	20:15	35.03	3/21/11	0:40	35.38	3/21/11	5:05	35.55
3/20/11	11:30	34.50	3/20/11	15:55	34.84	3/20/11	20:20	35.03	3/21/11	0:45	35.40	3/21/11	5:10	35.55
3/20/11	11:35	34.50	3/20/11	16:00	34.82	3/20/11	20:25	35.03	3/21/11	0:50	35.40	3/21/11	5:15	35.55
3/20/11	11:40	34.52	3/20/11	16:05	34.84	3/20/11	20:30	35.05	3/21/11	0:55	35.42	3/21/11	5:20	35.57
3/20/11	11:45	34.53	3/20/11	16:10	34.84	3/20/11	20:35	35.05	3/21/11	1:00	35.40	3/21/11	5:25	35.55
3/20/11	11:50	34.53	3/20/11	16:15	34.86	3/20/11	20:40	35.05	3/21/11	1:05	35.42	3/21/11	5:30	35.55
3/20/11	11:55	34.53	3/20/11	16:20	34.86	3/20/11	20:45	35.06	3/21/11	1:10	35.42	3/21/11	5:35	35.55
3/20/11	12:00	34.57	3/20/11	16:25	34.86	3/20/11	20:50	35.06	3/21/11	1:15	35.42	3/21/11	5:40	35.55
3/20/11	12:05	34.57	3/20/11	16:30	34.88	3/20/11	20:55	35.08	3/21/11	1:20	35.44	3/21/11	5:45	35.55
3/20/11	12:10	34.58	3/20/11	16:35	34.88	3/20/11	21:00	35.10	3/21/11	1:25	35.44	3/21/11	5:50	35.54
3/20/11	12:15	34.58	3/20/11	16:40	34.89	3/20/11	21:05	35.10	3/21/11	1:30	35.44	3/21/11	5:55	35.55
3/20/11	12:20	34.60	3/20/11	16:45	34.89	3/20/11	21:10	35.11	3/21/11	1:35	35.44	3/21/11	6:00	35.55
3/20/11	12:25	34.60	3/20/11	16:50	34.91	3/20/11	21:15	35.11	3/21/11	1:40	35.45	3/21/11	6:05	35.55
3/20/11	12:30	34.62	3/20/11	16:55	34.91	3/20/11	21:20	35.13	3/21/11	1:45	35.45	3/21/11	6:10	35.55
3/20/11	12:35	34.64	3/20/11	17:00	34.88	3/20/11	21:25	35.13	3/21/11	1:50	35.45	3/21/11	6:15	35.55
3/20/11	12:40	34.64	3/20/11	17:05	34.88	3/20/11	21:30	35.15	3/21/11	1:55	35.45	3/21/11	6:20	35.55
3/20/11	12:45	34.65	3/20/11	17:10	34.89	3/20/11	21:35	35.15	3/21/11	2:00	35.47	3/21/11	6:25	35.55
3/20/11	12:50	34.65	3/20/11	17:15	34.89	3/20/11	21:40	35.15	3/21/11	2:05	35.47	3/21/11	6:30	35.55
3/20/11	12:55	34.67	3/20/11	17:20	34.89	3/20/11	21:45	35.16	3/21/11	2:10	35.47	3/21/11	6:35	35.55
3/20/11	13:00	34.64	3/20/11	17:25	34.91	3/20/11	21:50	35.16	3/21/11	2:15	35.47	3/21/11	6:40	35.57
3/20/11	13:05	34.65	3/20/11	17:30	34.91	3/20/11	21:55	35.16	3/21/11	2:20	35.47	3/21/11	6:45	35.57
3/20/11	13:10	34.65	3/20/11	17:35	34.93	3/20/11	22:00	35.20	3/21/11	2:25	35.49	3/21/11	6:50	35.57
3/20/11	13:15	34.67	3/20/11	17:40	34.93	3/20/11	22:05	35.20	3/21/11	2:30	35.49	3/21/11	6:55	35.57
3/20/11	13:20	34.67	3/20/11	17:45	34.93	3/20/11	22:10	35.21	3/21/11	2:35	35.49	3/21/11	7:00	35.59
3/20/11	13:25	34.69	3/20/11	17:50	34.93	3/20/11	22:15	35.21	3/21/11	2:40	35.50	3/21/11	7:05	35.59
3/20/11	13:30	34.70	3/20/11	17:55	34.94	3/20/11	22:20	35.23	3/21/11	2:45	35.50	3/21/11	7:10	35.59
3/20/11	13:35	34.70	3/20/11	18:00	34.94	3/20/11	22:25	35.23	3/21/11	2:50	35.50	3/21/11	7:15	35.59
3/20/11	13:40	34.70	3/20/11	18:05	34.94	3/20/11	22:30	35.23	3/21/11	2:55	35.50	3/21/11	7:20	35.60
3/20/11	13:45	34.72	3/20/11	18:10	34.94	3/20/11	22:35	35.25	3/21/11	3:00	35.50	3/21/11	7:25	35.60
3/20/11	13:50	34.74	3/20/11	18:15	34.94	3/20/11	22:40	35.25	3/21/11	3:05	35.50	3/21/11	7:30	35.60
3/20/11	13:55	34.74	3/20/11	18:20	34.94	3/20/11	22:45	35.25	3/21/11	3:10	35.50	3/21/11	7:35	35.60
3/20/11	14:00	34.71	3/20/11	18:25	34.96	3/20/11	22:50	35.25	3/21/11	3:15	35.50	3/21/11	7:40	35.60
3/20/11	14:05	34.72	3/20/11	18:30	34.96	3/20/11	22:55	35.25	3/21/11	3:20	35.50	3/21/11	7:45	35.60
3/20/11	14:10	34.72	3/20/11	18:35	34.98	3/20/11	23:00	35.25	3/21/11	3:25	35.50	3/21/11	7:50	35.60
3/20/11	14:15	34.74	3/20/11	18:40	34.98	3/20/11	23:05	35.25	3/21/11	3:30	35.50	3/21/11	7:55	35.60
3/20/11	14:20	34.74	3/20/11	18:45	34.98	3/20/11	23:10	35.27	3/21/11	3:35	35.50	3/21/11	8:00	35.62
3/20/11	14:25	34.74	3/20/11	18:50	35.00	3/20/11	23:15	35.28	3/21/11	3:40	35.52	3/21/11	8:05	35.62
3/20/11	14:30	34.74	3/20/11	18:55	35.00	3/20/11	23:20	35.28	3/21/11	3:45	35.52	3/21/11	8:10	35.62
3/20/11	14:35	34.76	3/20/11	19:00	35.00	3/20/11	23:25	35.28	3/21/11	3:50	35.52	3/21/11	8:15	35.62
3/20/11	14:40	34.77	3/20/11	19:05	35.00	3/20/11	23:30	35.30	3/21/11	3:55	35.54	3/21/11	8:20	35.62
3/20/11	14:45	34.77	3/20/11	19:10	35.00	3/20/11	23:35	35.30	3/21/11	4:00	35.52	3/21/11	8:25	35.62
3/20/11	14:50	34.77	3/20/11	19:15	35.01	3/20/11	23:40	35.32	3/21/11	4:05	35.52	3/21/11	8:30	35.62
3/20/11	14:55	34.79	3/20/11	19:20	35.01	3/20/11	23:45	35.32	3/21/11	4:10	35.52	3/21/11	8:35	35.62
3/20/11	15:00	34.77	3/20/11	19:25	35.01	3/20/11	23:50	35.32	3/21/11	4:15	35.54	3/21/11	8:40	35.62
3/20/11	15:05	34.79	3/20/11	19:30	35.01	3/20/11	23:55	35.33	3/21/11	4:20	35.54	3/21/11	8:45	35.62
3/20/11	15:10	34.79	3/20/11	19:35	35.01	3/21/11	0:00	35.35	3/21/11	4:25	35.54	3/21/11	8:50	35.62
3/20/11	15:15	34.79	3/20/11	19:40	35.01	3/21/11	0:05	35.35	3/21/11	4:30	35.54	3/21/11	8:55	35.62
3/20/11	15:20	34.79	3/20/11	19:45	35.01	3/21/11	0:10	35.35	3/21/11	4:35	35.54	3/21/11	9:00	35.65

TABLE A.1-4. TRANSDUCER DATA FOR OBSERVATION WELL 1005, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	9:05	35.65	3/21/11	13:30	35.83	3/21/11	17:55	30.51	3/21/11	22:20	26.99	3/22/11	2:45	25.68
3/21/11	9:10	35.65	3/21/11	13:35	35.83	3/21/11	18:00	30.38	3/21/11	22:25	26.97	3/22/11	2:50	25.66
3/21/11	9:15	35.67	3/21/11	13:40	35.84	3/21/11	18:05	30.24	3/21/11	22:30	26.93	3/22/11	2:55	25.63
3/21/11	9:20	35.67	3/21/11	13:45	35.84	3/21/11	18:10	30.12	3/21/11	22:35	26.90	3/22/11	3:00	25.63
3/21/11	9:25	35.67	3/21/11	13:50	35.84	3/21/11	18:15	30.00	3/21/11	22:40	26.85	3/22/11	3:05	25.60
3/21/11	9:30	35.67	3/21/11	13:55	35.84	3/21/11	18:20	29.90	3/21/11	22:45	26.83	3/22/11	3:10	25.56
3/21/11	9:35	35.69	3/21/11	14:00	35.82	3/21/11	18:25	29.80	3/21/11	22:50	26.80	3/22/11	3:15	25.56
3/21/11	9:40	35.69	3/21/11	14:05	35.82	3/21/11	18:30	29.68	3/21/11	22:55	26.76	3/22/11	3:20	25.55
3/21/11	9:45	35.69	3/21/11	14:10	35.84	3/21/11	18:35	29.60	3/21/11	23:00	26.71	3/22/11	3:25	25.53
3/21/11	9:50	35.71	3/21/11	14:15	35.84	3/21/11	18:40	29.48	3/21/11	23:05	26.68	3/22/11	3:30	25.51
3/21/11	9:55	35.71	3/21/11	14:20	35.84	3/21/11	18:45	29.39	3/21/11	23:10	26.66	3/22/11	3:35	25.49
3/21/11	10:00	35.72	3/21/11	14:25	35.84	3/21/11	18:50	29.29	3/21/11	23:15	26.63	3/22/11	3:40	25.48
3/21/11	10:05	35.72	3/21/11	14:30	35.84	3/21/11	18:55	29.21	3/21/11	23:20	26.61	3/22/11	3:45	25.46
3/21/11	10:10	35.72	3/21/11	14:35	35.84	3/21/11	19:00	29.14	3/21/11	23:25	26.58	3/22/11	3:50	25.44
3/21/11	10:15	35.72	3/21/11	14:40	35.84	3/21/11	19:05	29.04	3/21/11	23:30	26.54	3/22/11	3:55	25.43
3/21/11	10:20	35.72	3/21/11	14:45	35.84	3/21/11	19:10	28.97	3/21/11	23:35	26.53	3/22/11	4:00	25.43
3/21/11	10:25	35.74	3/21/11	14:50	35.84	3/21/11	19:15	28.89	3/21/11	23:40	26.49	3/22/11	4:05	25.39
3/21/11	10:30	35.74	3/21/11	14:55	35.84	3/21/11	19:20	28.80	3/21/11	23:45	26.48	3/22/11	4:10	25.38
3/21/11	10:35	35.76	3/21/11	15:00	35.83	3/21/11	19:25	28.73	3/21/11	23:50	26.44	3/22/11	4:15	25.36
3/21/11	10:40	35.76	3/21/11	15:05	35.83	3/21/11	19:30	28.67	3/21/11	23:55	26.41	3/22/11	4:20	25.36
3/21/11	10:45	35.76	3/21/11	15:10	35.83	3/21/11	19:35	28.60	3/22/11	0:00	26.38	3/22/11	4:25	25.33
3/21/11	10:50	35.76	3/21/11	15:15	35.43	3/21/11	19:40	28.51	3/22/11	0:05	26.36	3/22/11	4:30	25.31
3/21/11	10:55	35.76	3/21/11	15:20	35.43	3/21/11	19:45	28.44	3/22/11	0:10	26.33	3/22/11	4:35	25.29
3/21/11	11:00	35.76	3/21/11	15:25	35.43	3/21/11	19:50	28.38	3/22/11	0:15	26.31	3/22/11	4:40	25.27
3/21/11	11:05	35.76	3/21/11	15:30	35.43	3/21/11	19:55	28.31	3/22/11	0:20	26.27	3/22/11	4:45	25.26
3/21/11	11:10	35.76	3/21/11	15:35	35.43	3/21/11	20:00	28.27	3/22/11	0:25	26.26	3/22/11	4:50	25.24
3/21/11	11:15	35.77	3/21/11	15:40	35.43	3/21/11	20:05	28.22	3/22/11	0:30	26.24	3/22/11	4:55	25.22
3/21/11	11:20	35.77	3/21/11	15:45	35.41	3/21/11	20:10	28.16	3/22/11	0:35	26.22	3/22/11	5:00	25.22
3/21/11	11:25	35.77	3/21/11	15:50	35.36	3/21/11	20:15	28.09	3/22/11	0:40	26.19	3/22/11	5:05	25.21
3/21/11	11:30	35.79	3/21/11	15:55	35.29	3/21/11	20:20	28.02	3/22/11	0:45	26.17	3/22/11	5:10	25.19
3/21/11	11:35	35.77	3/21/11	16:00	35.16	3/21/11	20:25	27.99	3/22/11	0:50	26.16	3/22/11	5:15	25.17
3/21/11	11:40	35.77	3/21/11	16:05	35.02	3/21/11	20:30	27.92	3/22/11	0:55	26.12	3/22/11	5:20	25.17
3/21/11	11:45	35.79	3/21/11	16:10	34.85	3/21/11	20:35	27.87	3/22/11	1:00	26.12	3/22/11	5:25	25.16
3/21/11	11:50	35.79	3/21/11	16:15	34.65	3/21/11	20:40	27.82	3/22/11	1:05	26.09	3/22/11	5:30	25.14
3/21/11	11:55	35.79	3/21/11	16:20	34.38	3/21/11	20:45	27.75	3/22/11	1:10	26.05	3/22/11	5:35	25.12
3/21/11	12:00	35.79	3/21/11	16:25	34.12	3/21/11	20:50	27.71	3/22/11	1:15	26.05	3/22/11	5:40	25.10
3/21/11	12:05	35.79	3/21/11	16:30	33.83	3/21/11	20:55	27.66	3/22/11	1:20	26.02	3/22/11	5:45	25.09
3/21/11	12:10	35.79	3/21/11	16:35	33.56	3/21/11	21:00	27.63	3/22/11	1:25	26.00	3/22/11	5:50	25.07
3/21/11	12:15	35.79	3/21/11	16:40	33.31	3/21/11	21:05	27.58	3/22/11	1:30	25.99	3/22/11	5:55	25.04
3/21/11	12:20	35.79	3/21/11	16:45	33.05	3/21/11	21:10	27.53	3/22/11	1:35	25.97	3/22/11	6:00	25.05
3/21/11	12:25	35.81	3/21/11	16:50	32.82	3/21/11	21:15	27.49	3/22/11	1:40	25.95	3/22/11	6:05	25.05
3/21/11	12:30	35.81	3/21/11	16:55	32.58	3/21/11	21:20	27.44	3/22/11	1:45	25.92	3/22/11	6:10	25.04
3/21/11	12:35	35.81	3/21/11	17:00	32.33	3/21/11	21:25	27.39	3/22/11	1:50	25.90	3/22/11	6:15	25.02
3/21/11	12:40	35.82	3/21/11	17:05	32.12	3/21/11	21:30	27.36	3/22/11	1:55	25.88	3/22/11	6:20	25.00
3/21/11	12:45	35.82	3/21/11	17:10	31.94	3/21/11	21:35	27.31	3/22/11	2:00	25.85	3/22/11	6:25	24.99
3/21/11	12:50	35.82	3/21/11	17:15	31.75	3/21/11	21:40	27.27	3/22/11	2:05	25.83	3/22/11	6:30	24.99
3/21/11	12:55	35.82	3/21/11	17:20	31.58	3/21/11	21:45	27.22	3/22/11	2:10	25.80	3/22/11	6:35	24.95
3/21/11	13:00	35.81	3/21/11	17:25	31.41	3/21/11	21:50	27.19	3/22/11	2:15	25.80	3/22/11	6:40	24.95
3/21/11	13:05	35.81	3/21/11	17:30	31.24	3/21/11	21:55	27.15	3/22/11	2:20	25.77	3/22/11	6:45	24.93
3/21/11	13:10	35.81	3/21/11	17:35	31.07	3/21/11	22:00	27.12	3/22/11	2:25	25.77	3/22/11	6:50	24.92
3/21/11	13:15	35.81	3/21/11	17:40	30.94	3/21/11	22:05	27.09	3/22/11	2:30	25.73	3/22/11	6:55	24.90
3/21/11	13:20	35.83	3/21/11	17:45	30.78	3/21/11	22:10	27.05	3/22/11	2:35	25.71	3/22/11	7:00	24.92
3/21/11	13:25	35.83	3/21/11	17:50	30.65	3/21/11	22:15	27.02	3/22/11	2:40	25.70	3/22/11	7:05	24.92

TABLE A.1-4. TRANSDUCER DATA FOR OBSERVATION WELL 1005, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/22/11	7:10	24.88	3/22/11	11:35	24.44	3/22/11	16:00	24.11	3/22/11	20:25	23.87	3/23/11	0:50	23.82
3/22/11	7:15	24.88	3/22/11	11:40	24.44	3/22/11	16:05	24.09	3/22/11	20:30	23.87	3/23/11	0:55	23.82
3/22/11	7:20	24.88	3/22/11	11:45	24.44	3/22/11	16:10	24.09	3/22/11	20:35	23.87	3/23/11	1:00	23.82
3/22/11	7:25	24.85	3/22/11	11:50	24.44	3/22/11	16:15	24.07	3/22/11	20:40	23.87	3/23/11	1:05	23.82
3/22/11	7:30	24.85	3/22/11	11:55	24.42	3/22/11	16:20	24.07	3/22/11	20:45	23.85	3/23/11	1:10	23.82
3/22/11	7:35	24.81	3/22/11	12:00	24.41	3/22/11	16:25	24.07	3/22/11	20:50	23.85	3/23/11	1:15	23.82
3/22/11	7:40	24.81	3/22/11	12:05	24.39	3/22/11	16:30	24.07	3/22/11	20:55	23.85	3/23/11	1:20	23.82
3/22/11	7:45	24.81	3/22/11	12:10	24.39	3/22/11	16:35	24.07	3/22/11	21:00	23.85	3/23/11	1:25	23.82
3/22/11	7:50	24.80	3/22/11	12:15	24.39	3/22/11	16:40	24.07	3/22/11	21:05	23.85	3/23/11	1:30	23.82
3/22/11	7:55	24.78	3/22/11	12:20	24.39	3/22/11	16:45	24.06	3/22/11	21:10	23.85	3/23/11	1:35	23.82
3/22/11	8:00	24.80	3/22/11	12:25	24.39	3/22/11	16:50	24.06	3/22/11	21:15	23.85	3/23/11	1:40	23.82
3/22/11	8:05	24.76	3/22/11	12:30	24.39	3/22/11	16:55	24.06	3/22/11	21:20	23.85	3/23/11	1:45	23.82
3/22/11	8:10	24.76	3/22/11	12:35	24.38	3/22/11	17:00	24.04	3/22/11	21:25	23.85	3/23/11	1:50	23.82
3/22/11	8:15	24.76	3/22/11	12:40	24.38	3/22/11	17:05	24.04	3/22/11	21:30	23.85	3/23/11	1:55	23.82
3/22/11	8:20	24.75	3/22/11	12:45	24.38	3/22/11	17:10	24.02	3/22/11	21:35	23.83	3/23/11	2:00	23.83
3/22/11	8:25	24.73	3/22/11	12:50	24.38	3/22/11	17:15	24.02	3/22/11	21:40	23.83	3/23/11	2:05	23.83
3/22/11	8:30	24.73	3/22/11	12:55	24.36	3/22/11	17:20	24.00	3/22/11	21:45	23.83	3/23/11	2:10	23.83
3/22/11	8:35	24.71	3/22/11	13:00	24.33	3/22/11	17:25	24.00	3/22/11	21:50	23.83	3/23/11	2:15	23.83
3/22/11	8:40	24.70	3/22/11	13:05	24.33	3/22/11	17:30	24.00	3/22/11	21:55	23.83	3/23/11	2:20	23.82
3/22/11	8:45	24.70	3/22/11	13:10	24.33	3/22/11	17:35	24.00	3/22/11	22:00	23.87	3/23/11	2:25	23.83
3/22/11	8:50	24.70	3/22/11	13:15	24.33	3/22/11	17:40	24.00	3/22/11	22:05	23.87	3/23/11	2:30	23.82
3/22/11	8:55	24.68	3/22/11	13:20	24.31	3/22/11	17:45	24.00	3/22/11	22:10	23.87	3/23/11	2:35	23.82
3/22/11	9:00	24.70	3/22/11	13:25	24.31	3/22/11	17:50	23.99	3/22/11	22:15	23.85	3/23/11	2:40	23.82
3/22/11	9:05	24.68	3/22/11	13:30	24.31	3/22/11	17:55	23.99	3/22/11	22:20	23.85	3/23/11	2:45	23.82
3/22/11	9:10	24.68	3/22/11	13:35	24.31	3/22/11	18:00	23.97	3/22/11	22:25	23.85	3/23/11	2:50	23.82
3/22/11	9:15	24.66	3/22/11	13:40	24.29	3/22/11	18:05	23.97	3/22/11	22:30	23.85	3/23/11	2:55	23.82
3/22/11	9:20	24.66	3/22/11	13:45	24.29	3/22/11	18:10	23.97	3/22/11	22:35	23.85	3/23/11	3:00	23.82
3/22/11	9:25	24.64	3/22/11	13:50	24.29	3/22/11	18:15	23.97	3/22/11	22:40	23.85	3/23/11	3:05	23.80
3/22/11	9:30	24.64	3/22/11	13:55	24.29	3/22/11	18:20	23.95	3/22/11	22:45	23.85	3/23/11	3:10	23.80
3/22/11	9:35	24.64	3/22/11	14:00	24.24	3/22/11	18:25	23.95	3/22/11	22:50	23.85	3/23/11	3:15	23.80
3/22/11	9:40	24.63	3/22/11	14:05	24.24	3/22/11	18:30	23.94	3/22/11	22:55	23.85	3/23/11	3:20	23.80
3/22/11	9:45	24.61	3/22/11	14:10	24.24	3/22/11	18:35	23.94	3/22/11	23:00	23.83	3/23/11	3:25	23.80
3/22/11	9:50	24.61	3/22/11	14:15	24.24	3/22/11	18:40	23.94	3/22/11	23:05	23.83	3/23/11	3:30	23.80
3/22/11	9:55	24.59	3/22/11	14:20	24.24	3/22/11	18:45	23.94	3/22/11	23:10	23.83	3/23/11	3:35	23.80
3/22/11	10:00	24.56	3/22/11	14:25	24.22	3/22/11	18:50	23.92	3/22/11	23:15	23.83	3/23/11	3:40	23.80
3/22/11	10:05	24.56	3/22/11	14:30	24.22	3/22/11	18:55	23.92	3/22/11	23:20	23.85	3/23/11	3:45	23.80
3/22/11	10:10	24.56	3/22/11	14:35	24.22	3/22/11	19:00	23.94	3/22/11	23:25	23.83	3/23/11	3:50	23.80
3/22/11	10:15	24.56	3/22/11	14:40	24.22	3/22/11	19:05	23.94	3/22/11	23:30	23.83	3/23/11	3:55	23.78
3/22/11	10:20	24.54	3/22/11	14:45	24.21	3/22/11	19:10	23.92	3/22/11	23:35	23.83	3/23/11	4:00	23.77
3/22/11	10:25	24.54	3/22/11	14:50	24.21	3/22/11	19:15	23.92	3/22/11	23:40	23.83	3/23/11	4:05	23.77
3/22/11	10:30	24.54	3/22/11	14:55	24.19	3/22/11	19:20	23.92	3/22/11	23:45	23.82	3/23/11	4:10	23.77
3/22/11	10:35	24.53	3/22/11	15:00	24.17	3/22/11	19:25	23.90	3/22/11	23:50	23.83	3/23/11	4:15	23.77
3/22/11	10:40	24.53	3/22/11	15:05	24.17	3/22/11	19:30	23.89	3/22/11	23:55	23.83	3/23/11	4:20	23.75
3/22/11	10:45	24.53	3/22/11	15:10	24.17	3/22/11	19:35	23.89	3/23/11	0:00	23.82	3/23/11	4:25	23.77
3/22/11	10:50	24.51	3/22/11	15:15	24.17	3/22/11	19:40	23.89	3/23/11	0:05	23.83	3/23/11	4:30	23.75
3/22/11	10:55	24.51	3/22/11	15:20	24.17	3/22/11	19:45	23.89	3/23/11	0:10	23.82	3/23/11	4:35	23.75
3/22/11	11:00	24.48	3/22/11	15:25	24.16	3/22/11	19:50	23.89	3/23/11	0:15	23.82	3/23/11	4:40	23.75
3/22/11	11:05	24.48	3/22/11	15:30	24.16	3/22/11	19:55	23.89	3/23/11	0:20	23.82	3/23/11	4:45	23.75
3/22/11	11:10	24.48	3/22/11	15:35	24.16	3/22/11	20:00	23.90	3/23/11	0:25	23.82	3/23/11	4:50	23.75
3/22/11	11:15	24.48	3/22/11	15:40	24.16	3/22/11	20:05	23.89	3/23/11	0:30	23.82	3/23/11	4:55	23.75
3/22/11	11:20	24.48	3/22/11	15:45	24.14	3/22/11	20:10	23.89	3/23/11	0:35	23.82	3/23/11	5:00	23.73
3/22/11	11:25	24.46	3/22/11	15:50	24.14	3/22/11	20:15	23.89	3/23/11	0:40	23.82	3/23/11	5:05	23.73
3/22/11	11:30	24.46	3/22/11	15:55	24.14	3/22/11	20:20	23.89	3/23/11	0:45	23.82	3/23/11	5:10	23.73

TABLE A.1-4. TRANSDUCER DATA FOR OBSERVATION WELL 1005, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/23/11	5:15	23.73	3/23/11	9:40	23.61	3/23/11	14:05	23.55	3/23/11	18:30	23.44	3/23/11	22:55	23.43
3/23/11	5:20	23.71	3/23/11	9:45	23.60	3/23/11	14:10	23.55	3/23/11	18:35	23.44	3/23/11	23:00	23.44
3/23/11	5:25	23.71	3/23/11	9:50	23.60	3/23/11	14:15	23.55	3/23/11	18:40	23.44	3/23/11	23:05	23.44
3/23/11	5:30	23.71	3/23/11	9:55	23.60	3/23/11	14:20	23.55	3/23/11	18:45	23.44	3/23/11	23:10	23.44
3/23/11	5:35	23.71	3/23/11	10:00	23.60	3/23/11	14:25	23.55	3/23/11	18:50	23.43	3/23/11	23:15	23.44
3/23/11	5:40	23.71	3/23/11	10:05	23.60	3/23/11	14:30	23.55	3/23/11	18:55	23.44	3/23/11	23:20	23.44
3/23/11	5:45	23.70	3/23/11	10:10	23.60	3/23/11	14:35	23.55	3/23/11	19:00	23.43	3/23/11	23:25	23.44
3/23/11	5:50	23.70	3/23/11	10:15	23.60	3/23/11	14:40	23.55	3/23/11	19:05	23.43	3/23/11	23:30	23.44
3/23/11	5:55	23.68	3/23/11	10:20	23.60	3/23/11	14:45	23.55	3/23/11	19:10	23.43	3/23/11	23:35	23.44
3/23/11	6:00	23.70	3/23/11	10:25	23.60	3/23/11	14:50	23.55	3/23/11	19:15	23.43	3/23/11	23:40	23.44
3/23/11	6:05	23.70	3/23/11	10:30	23.58	3/23/11	14:55	23.55	3/23/11	19:20	23.43	3/23/11	23:45	23.44
3/23/11	6:10	23.70	3/23/11	10:35	23.58	3/23/11	15:00	23.51	3/23/11	19:25	23.43	3/23/11	23:50	23.44
3/23/11	6:15	23.70	3/23/11	10:40	23.58	3/23/11	15:05	23.51	3/23/11	19:30	23.43	3/23/11	23:55	23.44
3/23/11	6:20	23.70	3/23/11	10:45	23.58	3/23/11	15:10	23.51	3/23/11	19:35	23.41	3/24/11	0:00	23.44
3/23/11	6:25	23.70	3/23/11	10:50	23.58	3/23/11	15:15	23.51	3/23/11	19:40	23.43	3/24/11	0:05	23.44
3/23/11	6:30	23.70	3/23/11	10:55	23.58	3/23/11	15:20	23.51	3/23/11	19:45	23.41	3/24/11	0:10	23.44
3/23/11	6:35	23.70	3/23/11	11:00	23.58	3/23/11	15:25	23.51	3/23/11	19:50	23.41	3/24/11	0:15	23.44
3/23/11	6:40	23.70	3/23/11	11:05	23.58	3/23/11	15:30	23.51	3/23/11	19:55	23.41	3/24/11	0:20	23.44
3/23/11	6:45	23.70	3/23/11	11:10	23.58	3/23/11	15:35	23.51	3/23/11	20:00	23.43	3/24/11	0:25	23.44
3/23/11	6:50	23.68	3/23/11	11:15	23.58	3/23/11	15:40	23.51	3/23/11	20:05	23.43	3/24/11	0:30	23.44
3/23/11	6:55	23.68	3/23/11	11:20	23.58	3/23/11	15:45	23.51	3/23/11	20:10	23.43	3/24/11	0:35	23.44
3/23/11	7:00	23.66	3/23/11	11:25	23.58	3/23/11	15:50	23.51	3/23/11	20:15	23.43	3/24/11	0:40	23.44
3/23/11	7:05	23.66	3/23/11	11:30	23.58	3/23/11	15:55	23.51	3/23/11	20:20	23.43	3/24/11	0:45	23.44
3/23/11	7:10	23.66	3/23/11	11:35	23.58	3/23/11	16:00	23.50	3/23/11	20:25	23.43	3/24/11	0:50	23.44
3/23/11	7:15	23.66	3/23/11	11:40	23.58	3/23/11	16:05	23.50	3/23/11	20:30	23.43	3/24/11	0:55	23.44
3/23/11	7:20	23.66	3/23/11	11:45	23.58	3/23/11	16:10	23.50	3/23/11	20:35	23.41	3/24/11	1:00	23.44
3/23/11	7:25	23.66	3/23/11	11:50	23.58	3/23/11	16:15	23.50	3/23/11	20:40	23.41	3/24/11	1:05	23.44
3/23/11	7:30	23.66	3/23/11	11:55	23.58	3/23/11	16:20	23.50	3/23/11	20:45	23.41	3/24/11	1:10	23.44
3/23/11	7:35	23.65	3/23/11	12:00	23.58	3/23/11	16:25	23.48	3/23/11	20:50	23.41	3/24/11	1:15	23.46
3/23/11	7:40	23.65	3/23/11	12:05	23.58	3/23/11	16:30	23.50	3/23/11	20:55	23.41	3/24/11	1:20	23.46
3/23/11	7:45	23.63	3/23/11	12:10	23.58	3/23/11	16:35	23.48	3/23/11	21:00	23.41	3/24/11	1:25	23.46
3/23/11	7:50	23.63	3/23/11	12:15	23.58	3/23/11	16:40	23.48	3/23/11	21:05	23.41	3/24/11	1:30	23.46
3/23/11	7:55	23.63	3/23/11	12:20	23.58	3/23/11	16:45	23.48	3/23/11	21:10	23.41	3/24/11	1:35	23.46
3/23/11	8:00	23.65	3/23/11	12:25	23.58	3/23/11	16:50	23.48	3/23/11	21:15	23.41	3/24/11	1:40	23.46
3/23/11	8:05	23.65	3/23/11	12:30	23.58	3/23/11	16:55	23.48	3/23/11	21:20	23.41	3/24/11	1:45	23.48
3/23/11	8:10	23.65	3/23/11	12:35	23.58	3/23/11	17:00	23.48	3/23/11	21:25	23.41	3/24/11	1:50	23.48
3/23/11	8:15	23.65	3/23/11	12:40	23.58	3/23/11	17:05	23.48	3/23/11	21:30	23.41	3/24/11	1:55	23.48
3/23/11	8:20	23.65	3/23/11	12:45	23.58	3/23/11	17:10	23.48	3/23/11	21:35	23.41	3/24/11	2:00	23.44
3/23/11	8:25	23.65	3/23/11	12:50	23.58	3/23/11	17:15	23.48	3/23/11	21:40	23.41	3/24/11	2:05	23.44
3/23/11	8:30	23.65	3/23/11	12:55	23.58	3/23/11	17:20	23.48	3/23/11	21:45	23.39	3/24/11	2:10	23.46
3/23/11	8:35	23.63	3/23/11	13:00	23.56	3/23/11	17:25	23.46	3/23/11	21:50	23.39	3/24/11	2:15	23.44
3/23/11	8:40	23.63	3/23/11	13:05	23.56	3/23/11	17:30	23.46	3/23/11	21:55	23.39	3/24/11	2:20	23.44
3/23/11	8:45	23.63	3/23/11	13:10	23.56	3/23/11	17:35	23.46	3/23/11	22:00	23.43	3/24/11	2:25	23.44
3/23/11	8:50	23.63	3/23/11	13:15	23.56	3/23/11	17:40	23.46	3/23/11	22:05	23.43	3/24/11	2:30	23.46
3/23/11	8:55	23.61	3/23/11	13:20	23.56	3/23/11	17:45	23.46	3/23/11	22:10	23.43	3/24/11	2:35	23.46
3/23/11	9:00	23.61	3/23/11	13:25	23.56	3/23/11	17:50	23.46	3/23/11	22:15	23.43	3/24/11	2:40	23.46
3/23/11	9:05	23.61	3/23/11	13:30	23.56	3/23/11	17:55	23.46	3/23/11	22:20	23.43	3/24/11	2:45	23.46
3/23/11	9:10	23.61	3/23/11	13:35	23.56	3/23/11	18:00	23.46	3/23/11	22:25	23.43	3/24/11	2:50	23.46
3/23/11	9:15	23.61	3/23/11	13:40	23.56	3/23/11	18:05	23.44	3/23/11	22:30	23.43	3/24/11	2:55	23.46
3/23/11	9:20	23.61	3/23/11	13:45	23.56	3/23/11	18:10	23.44	3/23/11	22:35	23.43	3/24/11	3:00	23.46
3/23/11	9:25	23.61	3/23/11	13:50	23.56	3/23/11	18:15	23.44	3/23/11	22:40	23.43	3/24/11	3:05	23.46
3/23/11	9:30	23.61	3/23/11	13:55	23.56	3/23/11	18:20	23.46	3/23/11	22:45	23.43	3/24/11	3:10	23.46
3/23/11	9:35	23.61	3/23/11	14:00	23.55	3/23/11	18:25	23.44	3/23/11	22:50	23.43	3/24/11	3:15	23.46

TABLE A.1-4. TRANSDUCER DATA FOR OBSERVATION WELL 1005, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/24/11	3:20	23.46	3/24/11	7:45	23.39									
3/24/11	3:25	23.46	3/24/11	7:50	23.38									
3/24/11	3:30	23.44	3/24/11	7:55	23.38									
3/24/11	3:35	23.44	3/24/11	8:00	23.41									
3/24/11	3:40	23.43	3/24/11	8:05	23.41									
3/24/11	3:45	23.44	3/24/11	8:10	23.41									
3/24/11	3:50	23.44	3/24/11	8:15	23.41									
3/24/11	3:55	23.44	3/24/11	8:20	23.41									
3/24/11	4:00	23.44	3/24/11	8:25	23.41									
3/24/11	4:05	23.44	3/24/11	8:30	23.39									
3/24/11	4:10	23.44	3/24/11	8:35	23.39									
3/24/11	4:15	23.44	3/24/11	8:40	23.39									
3/24/11	4:20	23.44	3/24/11	8:45	23.39									
3/24/11	4:25	23.44	3/24/11	8:50	23.39									
3/24/11	4:30	23.44	3/24/11	8:55	23.39									
3/24/11	4:35	23.43	3/24/11	9:00	23.41									
3/24/11	4:40	23.43	3/24/11	9:05	23.39									
3/24/11	4:45	23.44	3/24/11	9:10	23.41									
3/24/11	4:50	23.43	3/24/11	9:15	23.39									
3/24/11	4:55	23.43	3/24/11	9:20	23.39									
3/24/11	5:00	23.43	3/24/11	9:25	23.39									
3/24/11	5:05	23.43	3/24/11	9:30	23.39									
3/24/11	5:10	23.43	3/24/11	9:35	23.39									
3/24/11	5:15	23.43	3/24/11	9:40	23.39									
3/24/11	5:20	23.43	3/24/11	9:45	23.39									
3/24/11	5:25	23.43	3/24/11	9:50	23.39									
3/24/11	5:30	23.43	3/24/11	9:55	23.39									
3/24/11	5:35	23.43	3/24/11	10:00	23.41									
3/24/11	5:40	23.43												
3/24/11	5:45	23.43												
3/24/11	5:50	23.43												
3/24/11	5:55	23.43												
3/24/11	6:00	23.43												
3/24/11	6:05	23.43												
3/24/11	6:10	23.43												
3/24/11	6:15	23.43												
3/24/11	6:20	23.43												
3/24/11	6:25	23.41												
3/24/11	6:30	23.41												
3/24/11	6:35	23.41												
3/24/11	6:40	23.41												
3/24/11	6:45	23.41												
3/24/11	6:50	23.41												
3/24/11	6:55	23.41												
3/24/11	7:00	23.41												
3/24/11	7:05	23.41												
3/24/11	7:10	23.41												
3/24/11	7:15	23.41												
3/24/11	7:20	23.41												
3/24/11	7:25	23.41												
3/24/11	7:30	23.39												
3/24/11	7:35	23.39												
3/24/11	7:40	23.39												

TABLE A.1-5. TRANSDUCER DATA FOR OBSERVATION WELL 1087.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/18/11	15:04	34.41	3/18/11	19:29	34.26	3/18/11	23:54	34.41	3/19/11	4:19	34.32	3/19/11	8:44	34.32
3/18/11	15:09	34.41	3/18/11	19:34	34.26	3/18/11	23:59	34.41	3/19/11	4:24	34.32	3/19/11	8:49	34.34
3/18/11	15:14	34.37	3/18/11	19:39	34.26	3/19/11	0:04	34.42	3/19/11	4:29	34.32	3/19/11	8:54	34.32
3/18/11	15:19	34.36	3/18/11	19:44	34.27	3/19/11	0:09	34.42	3/19/11	4:34	34.31	3/19/11	8:59	34.34
3/18/11	15:24	34.34	3/18/11	19:49	34.27	3/19/11	0:14	34.42	3/19/11	4:39	34.32	3/19/11	9:04	34.36
3/18/11	15:29	34.32	3/18/11	19:54	34.29	3/19/11	0:19	34.42	3/19/11	4:44	34.31	3/19/11	9:09	34.36
3/18/11	15:34	34.32	3/18/11	19:59	34.27	3/19/11	0:24	34.42	3/19/11	4:49	34.31	3/19/11	9:14	34.36
3/18/11	15:39	34.32	3/18/11	20:04	34.31	3/19/11	0:29	34.42	3/19/11	4:54	34.31	3/19/11	9:19	34.36
3/18/11	15:44	34.32	3/18/11	20:09	34.31	3/19/11	0:34	34.42	3/19/11	4:59	34.31	3/19/11	9:24	34.36
3/18/11	15:49	34.31	3/18/11	20:14	34.31	3/19/11	0:39	34.42	3/19/11	5:04	34.32	3/19/11	9:29	34.36
3/18/11	15:54	34.31	3/18/11	20:19	34.31	3/19/11	0:44	34.42	3/19/11	5:09	34.32	3/19/11	9:34	34.36
3/18/11	15:59	34.31	3/18/11	20:24	34.31	3/19/11	0:49	34.42	3/19/11	5:14	34.31	3/19/11	9:39	34.36
3/18/11	16:04	34.29	3/18/11	20:29	34.31	3/19/11	0:54	34.42	3/19/11	5:19	34.32	3/19/11	9:44	34.37
3/18/11	16:09	34.27	3/18/11	20:34	34.31	3/19/11	0:59	34.42	3/19/11	5:24	34.31	3/19/11	9:49	34.37
3/18/11	16:14	34.26	3/18/11	20:39	34.31	3/19/11	1:04	34.42	3/19/11	5:29	34.31	3/19/11	9:54	34.37
3/18/11	16:19	34.24	3/18/11	20:44	34.31	3/19/11	1:09	34.42	3/19/11	5:34	34.31	3/19/11	9:59	34.37
3/18/11	16:24	34.24	3/18/11	20:49	34.31	3/19/11	1:14	34.42	3/19/11	5:39	34.31	3/19/11	10:04	34.37
3/18/11	16:29	34.24	3/18/11	20:54	34.31	3/19/11	1:19	34.41	3/19/11	5:44	34.31	3/19/11	10:09	34.37
3/18/11	16:34	34.24	3/18/11	20:59	34.31	3/19/11	1:24	34.42	3/19/11	5:49	34.31	3/19/11	10:14	34.37
3/18/11	16:39	34.24	3/18/11	21:04	34.34	3/19/11	1:29	34.41	3/19/11	5:54	34.31	3/19/11	10:19	34.39
3/18/11	16:44	34.24	3/18/11	21:09	34.34	3/19/11	1:34	34.41	3/19/11	5:59	34.31	3/19/11	10:24	34.39
3/18/11	16:49	34.22	3/18/11	21:14	34.34	3/19/11	1:39	34.41	3/19/11	6:04	34.29	3/19/11	10:29	34.39
3/18/11	16:54	34.24	3/18/11	21:19	34.34	3/19/11	1:44	34.41	3/19/11	6:09	34.29	3/19/11	10:34	34.39
3/18/11	16:59	34.24	3/18/11	21:24	34.34	3/19/11	1:49	34.41	3/19/11	6:14	34.29	3/19/11	10:39	34.39
3/18/11	17:04	34.24	3/18/11	21:29	34.34	3/19/11	1:54	34.41	3/19/11	6:19	34.31	3/19/11	10:44	34.39
3/18/11	17:09	34.24	3/18/11	21:34	34.34	3/19/11	1:59	34.41	3/19/11	6:24	34.29	3/19/11	10:49	34.39
3/18/11	17:14	34.24	3/18/11	21:39	34.34	3/19/11	2:04	34.39	3/19/11	6:29	34.29	3/19/11	10:54	34.39
3/18/11	17:19	34.24	3/18/11	21:44	34.34	3/19/11	2:09	34.39	3/19/11	6:34	34.29	3/19/11	10:59	34.39
3/18/11	17:24	34.22	3/18/11	21:49	34.34	3/19/11	2:14	34.39	3/19/11	6:39	34.29	3/19/11	11:04	34.39
3/18/11	17:29	34.24	3/18/11	21:54	34.34	3/19/11	2:19	34.39	3/19/11	6:44	34.29	3/19/11	11:09	34.37
3/18/11	17:34	34.24	3/18/11	21:59	34.36	3/19/11	2:24	34.37	3/19/11	6:49	34.29	3/19/11	11:14	34.39
3/18/11	17:39	34.24	3/18/11	22:04	34.37	3/19/11	2:29	34.37	3/19/11	6:54	34.29	3/19/11	11:19	34.39
3/18/11	17:44	34.24	3/18/11	22:09	34.39	3/19/11	2:34	34.37	3/19/11	6:59	34.29	3/19/11	11:24	34.39
3/18/11	17:49	34.24	3/18/11	22:14	34.39	3/19/11	2:39	34.37	3/19/11	7:04	34.29	3/19/11	11:29	34.39
3/18/11	17:54	34.24	3/18/11	22:19	34.39	3/19/11	2:44	34.37	3/19/11	7:09	34.29	3/19/11	11:34	34.39
3/18/11	17:59	34.26	3/18/11	22:24	34.39	3/19/11	2:49	34.37	3/19/11	7:14	34.29	3/19/11	11:39	34.39
3/18/11	18:04	34.19	3/18/11	22:29	34.39	3/19/11	2:54	34.37	3/19/11	7:19	34.29	3/19/11	11:44	34.39
3/18/11	18:09	34.19	3/18/11	22:34	34.39	3/19/11	2:59	34.37	3/19/11	7:24	34.29	3/19/11	11:49	34.39
3/18/11	18:14	34.19	3/18/11	22:39	34.39	3/19/11	3:04	34.36	3/19/11	7:29	34.29	3/19/11	11:54	34.39
3/18/11	18:19	34.19	3/18/11	22:44	34.39	3/19/11	3:09	34.36	3/19/11	7:34	34.29	3/19/11	11:59	34.39
3/18/11	18:24	34.19	3/18/11	22:49	34.39	3/19/11	3:14	34.36	3/19/11	7:39	34.29	3/19/11	12:04	34.37
3/18/11	18:29	34.19	3/18/11	22:54	34.39	3/19/11	3:19	34.36	3/19/11	7:44	34.29	3/19/11	12:09	34.37
3/18/11	18:34	34.19	3/18/11	22:59	34.39	3/19/11	3:24	34.36	3/19/11	7:49	34.29	3/19/11	12:14	34.37
3/18/11	18:39	34.19	3/18/11	23:04	34.41	3/19/11	3:29	34.36	3/19/11	7:54	34.29	3/19/11	12:19	34.39
3/18/11	18:44	34.19	3/18/11	23:09	34.41	3/19/11	3:34	34.36	3/19/11	7:59	34.29	3/19/11	12:24	34.37
3/18/11	18:49	34.19	3/18/11	23:14	34.41	3/19/11	3:39	34.36	3/19/11	8:04	34.32	3/19/11	12:29	34.37
3/18/11	18:54	34.21	3/18/11	23:19	34.42	3/19/11	3:44	34.36	3/19/11	8:09	34.32	3/19/11	12:34	34.39
3/18/11	18:59	34.21	3/18/11	23:24	34.41	3/19/11	3:49	34.36	3/19/11	8:14	34.32	3/19/11	12:39	34.41
3/18/11	19:04	34.26	3/18/11	23:29	34.41	3/19/11	3:54	34.34	3/19/11	8:19	34.32	3/19/11	12:44	34.41
3/18/11	19:09	34.26	3/18/11	23:34	34.41	3/19/11	3:59	34.36	3/19/11	8:24	34.32	3/19/11	12:49	34.41
3/18/11	19:14	34.26	3/18/11	23:39	34.41	3/19/11	4:04	34.32	3/19/11	8:29	34.32	3/19/11	12:54	34.41
3/18/11	19:19	34.26	3/18/11	23:44	34.41	3/19/11	4:09	34.32	3/19/11	8:34	34.32	3/19/11	12:59	34.41
3/18/11	19:24	34.26	3/18/11	23:49	34.41	3/19/11	4:14	34.32	3/19/11	8:39	34.32	3/19/11	13:04	34.37

TABLE A.1-5. TRANSDUCER DATA FOR OBSERVATION WELL 1087, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/19/11	13:09	34.37	3/19/11	17:34	35.78	3/19/11	21:59	41.33	3/20/11	2:24	42.96	3/20/11	6:49	43.53
3/19/11	13:14	34.37	3/19/11	17:39	36.00	3/19/11	22:04	41.38	3/20/11	2:29	42.96	3/20/11	6:54	43.54
3/19/11	13:19	34.37	3/19/11	17:44	36.20	3/19/11	22:09	41.43	3/20/11	2:34	42.99	3/20/11	6:59	43.54
3/19/11	13:24	34.37	3/19/11	17:49	36.42	3/19/11	22:14	41.46	3/20/11	2:39	43.01	3/20/11	7:04	43.58
3/19/11	13:29	34.37	3/19/11	17:54	36.62	3/19/11	22:19	41.51	3/20/11	2:44	43.02	3/20/11	7:09	43.61
3/19/11	13:34	34.37	3/19/11	17:59	36.82	3/19/11	22:24	41.55	3/20/11	2:49	43.04	3/20/11	7:14	43.61
3/19/11	13:39	34.37	3/19/11	18:04	36.97	3/19/11	22:29	41.58	3/20/11	2:54	43.06	3/20/11	7:19	43.63
3/19/11	13:44	34.37	3/19/11	18:09	37.17	3/19/11	22:34	41.63	3/20/11	2:59	43.07	3/20/11	7:24	43.63
3/19/11	13:49	34.37	3/19/11	18:14	37.34	3/19/11	22:39	41.67	3/20/11	3:04	43.07	3/20/11	7:29	43.64
3/19/11	13:54	34.37	3/19/11	18:19	37.51	3/19/11	22:44	41.70	3/20/11	3:09	43.09	3/20/11	7:34	43.66
3/19/11	13:59	34.37	3/19/11	18:24	37.68	3/19/11	22:49	41.75	3/20/11	3:14	43.11	3/20/11	7:39	43.68
3/19/11	14:04	34.34	3/19/11	18:29	37.83	3/19/11	22:54	41.78	3/20/11	3:19	43.12	3/20/11	7:44	43.71
3/19/11	14:09	34.34	3/19/11	18:34	37.96	3/19/11	22:59	41.82	3/20/11	3:24	43.14	3/20/11	7:49	43.71
3/19/11	14:14	34.37	3/19/11	18:39	38.11	3/19/11	23:04	41.87	3/20/11	3:29	43.14	3/20/11	7:54	43.74
3/19/11	14:19	34.46	3/19/11	18:44	38.25	3/19/11	23:09	41.90	3/20/11	3:34	43.16	3/20/11	7:59	43.74
3/19/11	14:24	34.61	3/19/11	18:49	38.36	3/19/11	23:14	41.93	3/20/11	3:39	43.17	3/20/11	8:04	43.78
3/19/11	14:29	34.78	3/19/11	18:54	38.48	3/19/11	23:19	41.98	3/20/11	3:44	43.19	3/20/11	8:09	43.79
3/19/11	14:34	34.96	3/19/11	18:59	38.60	3/19/11	23:24	42.00	3/20/11	3:49	43.21	3/20/11	8:14	43.79
3/19/11	14:39	35.13	3/19/11	19:04	38.72	3/19/11	23:29	42.03	3/20/11	3:54	43.22	3/20/11	8:19	43.81
3/19/11	14:44	35.31	3/19/11	19:09	38.83	3/19/11	23:34	42.08	3/20/11	3:59	43.22	3/20/11	8:24	43.83
3/19/11	14:49	35.50	3/19/11	19:14	38.93	3/19/11	23:39	42.12	3/20/11	4:04	43.24	3/20/11	8:29	43.83
3/19/11	14:54	35.66	3/19/11	19:19	39.05	3/19/11	23:44	42.13	3/20/11	4:09	43.24	3/20/11	8:34	43.83
3/19/11	14:59	35.82	3/19/11	19:24	39.13	3/19/11	23:49	42.17	3/20/11	4:14	43.26	3/20/11	8:39	43.86
3/19/11	15:04	35.90	3/19/11	19:29	39.24	3/19/11	23:54	42.20	3/20/11	4:19	43.27	3/20/11	8:44	43.86
3/19/11	15:09	35.93	3/19/11	19:34	39.32	3/19/11	23:59	42.24	3/20/11	4:24	43.29	3/20/11	8:49	43.88
3/19/11	15:14	35.92	3/19/11	19:39	39.42	3/20/11	0:04	42.25	3/20/11	4:29	43.29	3/20/11	8:54	43.88
3/19/11	15:19	35.88	3/19/11	19:44	39.50	3/20/11	0:09	42.29	3/20/11	4:34	43.31	3/20/11	8:59	43.89
3/19/11	15:24	35.83	3/19/11	19:49	39.59	3/20/11	0:14	42.32	3/20/11	4:39	43.32	3/20/11	9:04	43.93
3/19/11	15:29	35.78	3/19/11	19:54	39.69	3/20/11	0:19	42.35	3/20/11	4:44	43.34	3/20/11	9:09	43.94
3/19/11	15:34	35.73	3/19/11	19:59	39.77	3/20/11	0:24	42.39	3/20/11	4:49	43.34	3/20/11	9:14	43.96
3/19/11	15:39	35.70	3/19/11	20:04	39.86	3/20/11	0:29	42.42	3/20/11	4:54	43.36	3/20/11	9:19	43.96
3/19/11	15:44	35.70	3/19/11	20:09	39.92	3/20/11	0:34	42.44	3/20/11	4:59	43.37	3/20/11	9:24	43.98
3/19/11	15:49	35.66	3/19/11	20:14	40.01	3/20/11	0:39	42.47	3/20/11	5:04	43.37	3/20/11	9:29	43.99
3/19/11	15:54	35.63	3/19/11	20:19	40.07	3/20/11	0:44	42.50	3/20/11	5:09	43.39	3/20/11	9:34	43.99
3/19/11	15:59	35.56	3/19/11	20:24	40.16	3/20/11	0:49	42.52	3/20/11	5:14	43.39	3/20/11	9:39	44.01
3/19/11	16:04	35.50	3/19/11	20:29	40.22	3/20/11	0:54	42.54	3/20/11	5:19	43.41	3/20/11	9:44	44.03
3/19/11	16:09	35.46	3/19/11	20:34	40.31	3/20/11	0:59	42.57	3/20/11	5:24	43.42	3/20/11	9:49	44.04
3/19/11	16:14	35.40	3/19/11	20:39	40.38	3/20/11	1:04	42.59	3/20/11	5:29	43.42	3/20/11	9:54	44.04
3/19/11	16:19	35.36	3/19/11	20:44	40.44	3/20/11	1:09	42.62	3/20/11	5:34	43.42	3/20/11	9:59	44.06
3/19/11	16:24	35.31	3/19/11	20:49	40.53	3/20/11	1:14	42.65	3/20/11	5:39	43.44	3/20/11	10:04	44.06
3/19/11	16:29	35.28	3/19/11	20:54	40.59	3/20/11	1:19	42.67	3/20/11	5:44	43.44	3/20/11	10:09	44.08
3/19/11	16:34	35.23	3/19/11	20:59	40.66	3/20/11	1:24	42.69	3/20/11	5:49	43.46	3/20/11	10:14	44.09
3/19/11	16:39	35.20	3/19/11	21:04	40.74	3/20/11	1:29	42.72	3/20/11	5:54	43.48	3/20/11	10:19	44.09
3/19/11	16:44	35.16	3/19/11	21:09	40.79	3/20/11	1:34	42.74	3/20/11	5:59	43.49	3/20/11	10:24	44.11
3/19/11	16:49	35.11	3/19/11	21:14	40.84	3/20/11	1:39	42.77	3/20/11	6:04	43.51	3/20/11	10:29	44.13
3/19/11	16:54	35.06	3/19/11	21:19	40.91	3/20/11	1:44	42.79	3/20/11	6:09	43.53	3/20/11	10:34	44.13
3/19/11	16:59	34.99	3/19/11	21:24	40.96	3/20/11	1:49	42.80	3/20/11	6:14	43.53	3/20/11	10:39	44.14
3/19/11	17:04	34.93	3/19/11	21:29	41.01	3/20/11	1:54	42.82	3/20/11	6:19	43.53	3/20/11	10:44	44.16
3/19/11	17:09	34.95	3/19/11	21:34	41.08	3/20/11	1:59	42.86	3/20/11	6:24	43.54	3/20/11	10:49	44.16
3/19/11	17:14	35.03	3/19/11	21:39	41.11	3/20/11	2:04	42.87	3/20/11	6:29	43.53	3/20/11	10:54	44.18
3/19/11	17:19	35.18	3/19/11	21:44	41.16	3/20/11	2:09	42.89	3/20/11	6:34	43.53	3/20/11	10:59	44.18
3/19/11	17:24	35.38	3/19/11	21:49	41.21	3/20/11	2:14	42.91	3/20/11	6:39	43.51	3/20/11	11:04	44.18
3/19/11	17:29	35.58	3/19/11	21:54	41.28	3/20/11	2:19	42.92	3/20/11	6:44	43.53	3/20/11	11:09	44.18

TABLE A.1-5. TRANSDUCER DATA FOR OBSERVATION WELL 1087, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	11:14	44.19	3/20/11	15:39	44.50	3/20/11	20:04	44.65	3/21/11	0:29	45.02	3/21/11	4:54	45.15
3/20/11	11:19	44.21	3/20/11	15:44	44.50	3/20/11	20:09	44.67	3/21/11	0:34	45.02	3/21/11	4:59	45.15
3/20/11	11:24	44.21	3/20/11	15:49	44.50	3/20/11	20:14	44.67	3/21/11	0:39	45.02	3/21/11	5:04	45.17
3/20/11	11:29	44.23	3/20/11	15:54	44.50	3/20/11	20:19	44.68	3/21/11	0:44	45.03	3/21/11	5:09	45.15
3/20/11	11:34	44.23	3/20/11	15:59	44.51	3/20/11	20:24	44.68	3/21/11	0:49	45.03	3/21/11	5:14	45.17
3/20/11	11:39	44.25	3/20/11	16:04	44.50	3/20/11	20:29	44.68	3/21/11	0:54	45.05	3/21/11	5:19	45.17
3/20/11	11:44	44.25	3/20/11	16:09	44.51	3/20/11	20:34	44.68	3/21/11	0:59	45.07	3/21/11	5:24	45.15
3/20/11	11:49	44.26	3/20/11	16:14	44.51	3/20/11	20:39	44.70	3/21/11	1:04	45.05	3/21/11	5:29	45.15
3/20/11	11:54	44.28	3/20/11	16:19	44.53	3/20/11	20:44	44.70	3/21/11	1:09	45.05	3/21/11	5:34	45.15
3/20/11	11:59	44.28	3/20/11	16:24	44.53	3/20/11	20:49	44.72	3/21/11	1:14	45.05	3/21/11	5:39	45.15
3/20/11	12:04	44.28	3/20/11	16:29	44.53	3/20/11	20:54	44.72	3/21/11	1:19	45.07	3/21/11	5:44	45.14
3/20/11	12:09	44.30	3/20/11	16:34	44.55	3/20/11	20:59	44.72	3/21/11	1:24	45.07	3/21/11	5:49	45.14
3/20/11	12:14	44.31	3/20/11	16:39	44.55	3/20/11	21:04	44.75	3/21/11	1:29	45.07	3/21/11	5:54	45.14
3/20/11	12:19	44.31	3/20/11	16:44	44.57	3/20/11	21:09	44.77	3/21/11	1:34	45.07	3/21/11	5:59	45.14
3/20/11	12:24	44.31	3/20/11	16:49	44.57	3/20/11	21:14	44.77	3/21/11	1:39	45.07	3/21/11	6:04	45.15
3/20/11	12:29	44.33	3/20/11	16:54	44.57	3/20/11	21:19	44.77	3/21/11	1:44	45.07	3/21/11	6:09	45.15
3/20/11	12:34	44.33	3/20/11	16:59	44.58	3/20/11	21:24	44.78	3/21/11	1:49	45.09	3/21/11	6:14	45.15
3/20/11	12:39	44.35	3/20/11	17:04	44.55	3/20/11	21:29	44.78	3/21/11	1:54	45.09	3/21/11	6:19	45.15
3/20/11	12:44	44.35	3/20/11	17:09	44.55	3/20/11	21:34	44.80	3/21/11	1:59	45.09	3/21/11	6:24	45.17
3/20/11	12:49	44.36	3/20/11	17:14	44.55	3/20/11	21:39	44.80	3/21/11	2:04	45.09	3/21/11	6:29	45.15
3/20/11	12:54	44.36	3/20/11	17:19	44.57	3/20/11	21:44	44.80	3/21/11	2:09	45.09	3/21/11	6:34	45.17
3/20/11	12:59	44.38	3/20/11	17:24	44.57	3/20/11	21:49	44.82	3/21/11	2:14	45.10	3/21/11	6:39	45.17
3/20/11	13:04	44.35	3/20/11	17:29	44.58	3/20/11	21:54	44.82	3/21/11	2:19	45.10	3/21/11	6:44	45.17
3/20/11	13:09	44.35	3/20/11	17:34	44.58	3/20/11	21:59	44.83	3/21/11	2:24	45.10	3/21/11	6:49	45.17
3/20/11	13:14	44.36	3/20/11	17:39	44.58	3/20/11	22:04	44.85	3/21/11	2:29	45.10	3/21/11	6:54	45.17
3/20/11	13:19	44.38	3/20/11	17:44	44.58	3/20/11	22:09	44.85	3/21/11	2:34	45.10	3/21/11	6:59	45.19
3/20/11	13:24	44.38	3/20/11	17:49	44.58	3/20/11	22:14	44.87	3/21/11	2:39	45.12	3/21/11	7:04	45.20
3/20/11	13:29	44.40	3/20/11	17:54	44.58	3/20/11	22:19	44.87	3/21/11	2:44	45.12	3/21/11	7:09	45.20
3/20/11	13:34	44.40	3/20/11	17:59	44.58	3/20/11	22:24	44.87	3/21/11	2:49	45.12	3/21/11	7:14	45.20
3/20/11	13:39	44.40	3/20/11	18:04	44.60	3/20/11	22:29	44.88	3/21/11	2:54	45.12	3/21/11	7:19	45.20
3/20/11	13:44	44.41	3/20/11	18:09	44.60	3/20/11	22:34	44.88	3/21/11	2:59	45.12	3/21/11	7:24	45.20
3/20/11	13:49	44.41	3/20/11	18:14	44.60	3/20/11	22:39	44.88	3/21/11	3:04	45.12	3/21/11	7:29	45.20
3/20/11	13:54	44.43	3/20/11	18:19	44.62	3/20/11	22:44	44.88	3/21/11	3:09	45.12	3/21/11	7:34	45.20
3/20/11	13:59	44.43	3/20/11	18:24	44.62	3/20/11	22:49	44.88	3/21/11	3:14	45.12	3/21/11	7:39	45.20
3/20/11	14:04	44.41	3/20/11	18:29	44.62	3/20/11	22:54	44.88	3/21/11	3:19	45.12	3/21/11	7:44	45.20
3/20/11	14:09	44.41	3/20/11	18:34	44.62	3/20/11	22:59	44.88	3/21/11	3:24	45.14	3/21/11	7:49	45.20
3/20/11	14:14	44.41	3/20/11	18:39	44.62	3/20/11	23:04	44.90	3/21/11	3:29	45.14	3/21/11	7:54	45.20
3/20/11	14:19	44.43	3/20/11	18:44	44.62	3/20/11	23:09	44.90	3/21/11	3:34	45.14	3/21/11	7:59	45.20
3/20/11	14:24	44.43	3/20/11	18:49	44.63	3/20/11	23:14	44.92	3/21/11	3:39	45.14	3/21/11	8:04	45.22
3/20/11	14:29	44.45	3/20/11	18:54	44.63	3/20/11	23:19	44.92	3/21/11	3:44	45.14	3/21/11	8:09	45.22
3/20/11	14:34	44.45	3/20/11	18:59	44.63	3/20/11	23:24	44.92	3/21/11	3:49	45.14	3/21/11	8:14	45.22
3/20/11	14:39	44.45	3/20/11	19:04	44.63	3/20/11	23:29	44.93	3/21/11	3:54	45.14	3/21/11	8:19	45.22
3/20/11	14:44	44.45	3/20/11	19:09	44.63	3/20/11	23:34	44.93	3/21/11	3:59	45.14	3/21/11	8:24	45.22
3/20/11	14:49	44.46	3/20/11	19:14	44.65	3/20/11	23:39	44.95	3/21/11	4:04	45.12	3/21/11	8:29	45.22
3/20/11	14:54	44.48	3/20/11	19:19	44.65	3/20/11	23:44	44.95	3/21/11	4:09	45.14	3/21/11	8:34	45.22
3/20/11	14:59	44.48	3/20/11	19:24	44.65	3/20/11	23:49	44.95	3/21/11	4:14	45.14	3/21/11	8:39	45.23
3/20/11	15:04	44.46	3/20/11	19:29	44.65	3/20/11	23:54	44.97	3/21/11	4:19	45.14	3/21/11	8:44	45.22
3/20/11	15:09	44.46	3/20/11	19:34	44.63	3/20/11	23:59	44.98	3/21/11	4:24	45.14	3/21/11	8:49	45.23
3/20/11	15:14	44.46	3/20/11	19:39	44.65	3/21/11	0:04	44.98	3/21/11	4:29	45.15	3/21/11	8:54	45.23
3/20/11	15:19	44.48	3/20/11	19:44	44.65	3/21/11	0:09	45.00	3/21/11	4:34	45.15	3/21/11	8:59	45.23
3/20/11	15:24	44.48	3/20/11	19:49	44.65	3/21/11	0:14	45.00	3/21/11	4:39	45.15	3/21/11	9:04	45.27
3/20/11	15:29	44.48	3/20/11	19:54	44.65	3/21/11	0:19	45.02	3/21/11	4:44	45.15	3/21/11	9:09	45.27
3/20/11	15:34	44.50	3/20/11	19:59	44.65	3/21/11	0:24	45.02	3/21/11	4:49	45.15	3/21/11	9:14	45.27

TABLE A.1-5. TRANSDUCER DATA FOR OBSERVATION WELL 1087, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	9:19	45.27	3/21/11	13:44	45.44	3/21/11	18:09	40.48	3/21/11	22:34	37.71	3/22/11	2:59	36.64
3/21/11	9:24	45.27	3/21/11	13:49	45.44	3/21/11	18:14	40.38	3/21/11	22:39	37.69	3/22/11	3:04	36.62
3/21/11	9:29	45.29	3/21/11	13:54	45.44	3/21/11	18:19	40.28	3/21/11	22:44	37.66	3/22/11	3:09	36.61
3/21/11	9:34	45.30	3/21/11	13:59	45.44	3/21/11	18:24	40.19	3/21/11	22:49	37.63	3/22/11	3:14	36.59
3/21/11	9:39	45.30	3/21/11	14:04	45.42	3/21/11	18:29	40.11	3/21/11	22:54	37.61	3/22/11	3:19	36.57
3/21/11	9:44	45.30	3/21/11	14:09	45.42	3/21/11	18:34	40.01	3/21/11	22:59	37.58	3/22/11	3:24	36.57
3/21/11	9:49	45.30	3/21/11	14:14	45.42	3/21/11	18:39	39.92	3/21/11	23:04	37.54	3/22/11	3:29	36.54
3/21/11	9:54	45.30	3/21/11	14:19	45.42	3/21/11	18:44	39.84	3/21/11	23:09	37.53	3/22/11	3:34	36.54
3/21/11	9:59	45.30	3/21/11	14:24	45.42	3/21/11	18:49	39.77	3/21/11	23:14	37.49	3/22/11	3:39	36.50
3/21/11	10:04	45.33	3/21/11	14:29	45.42	3/21/11	18:54	39.69	3/21/11	23:19	37.48	3/22/11	3:44	36.50
3/21/11	10:09	45.33	3/21/11	14:34	45.42	3/21/11	18:59	39.62	3/21/11	23:24	37.44	3/22/11	3:49	36.49
3/21/11	10:14	45.33	3/21/11	14:39	45.42	3/21/11	19:04	39.56	3/21/11	23:29	37.43	3/22/11	3:54	36.47
3/21/11	10:19	45.33	3/21/11	14:44	45.42	3/21/11	19:09	39.49	3/21/11	23:34	37.41	3/22/11	3:59	36.47
3/21/11	10:24	45.35	3/21/11	14:49	45.42	3/21/11	19:14	39.42	3/21/11	23:39	37.38	3/22/11	4:04	36.45
3/21/11	10:29	45.35	3/21/11	14:54	45.44	3/21/11	19:19	39.34	3/21/11	23:44	37.36	3/22/11	4:09	36.44
3/21/11	10:34	45.35	3/21/11	14:59	45.42	3/21/11	19:24	39.29	3/21/11	23:49	37.34	3/22/11	4:14	36.42
3/21/11	10:39	45.35	3/21/11	15:04	45.40	3/21/11	19:29	39.22	3/21/11	23:54	37.31	3/22/11	4:19	36.40
3/21/11	10:44	45.35	3/21/11	15:09	45.39	3/21/11	19:34	39.15	3/21/11	23:59	37.29	3/22/11	4:24	36.39
3/21/11	10:49	45.35	3/21/11	15:14	45.40	3/21/11	19:39	39.10	3/22/11	0:04	37.26	3/22/11	4:29	36.37
3/21/11	10:54	45.35	3/21/11	15:19	45.40	3/21/11	19:44	39.04	3/22/11	0:09	37.24	3/22/11	4:34	36.37
3/21/11	10:59	45.37	3/21/11	15:24	45.40	3/21/11	19:49	38.99	3/22/11	0:14	37.23	3/22/11	4:39	36.35
3/21/11	11:04	45.35	3/21/11	15:29	45.42	3/21/11	19:54	38.92	3/22/11	0:19	37.19	3/22/11	4:44	36.34
3/21/11	11:09	45.35	3/21/11	15:34	45.40	3/21/11	19:59	38.87	3/22/11	0:24	37.18	3/22/11	4:49	36.32
3/21/11	11:14	45.37	3/21/11	15:39	45.42	3/21/11	20:04	38.85	3/22/11	0:29	37.16	3/22/11	4:54	36.30
3/21/11	11:19	45.37	3/21/11	15:44	45.39	3/21/11	20:09	38.80	3/22/11	0:34	37.12	3/22/11	4:59	36.30
3/21/11	11:24	45.37	3/21/11	15:49	45.29	3/21/11	20:14	38.73	3/22/11	0:39	37.12	3/22/11	5:04	36.30
3/21/11	11:29	45.39	3/21/11	15:54	45.14	3/21/11	20:19	38.68	3/22/11	0:44	37.11	3/22/11	5:09	36.29
3/21/11	11:34	45.39	3/21/11	15:59	44.95	3/21/11	20:24	38.65	3/22/11	0:49	37.09	3/22/11	5:14	36.27
3/21/11	11:39	45.39	3/21/11	16:04	44.68	3/21/11	20:29	38.60	3/22/11	0:54	37.06	3/22/11	5:19	36.25
3/21/11	11:44	45.39	3/21/11	16:09	44.45	3/21/11	20:34	38.53	3/22/11	0:59	37.04	3/22/11	5:24	36.24
3/21/11	11:49	45.39	3/21/11	16:14	44.21	3/21/11	20:39	38.50	3/22/11	1:04	37.02	3/22/11	5:29	36.24
3/21/11	11:54	45.40	3/21/11	16:19	43.98	3/21/11	20:44	38.45	3/22/11	1:09	37.01	3/22/11	5:34	36.22
3/21/11	11:59	45.40	3/21/11	16:24	43.74	3/21/11	20:49	38.40	3/22/11	1:14	36.99	3/22/11	5:39	36.20
3/21/11	12:04	45.39	3/21/11	16:29	43.53	3/21/11	20:54	38.37	3/22/11	1:19	36.97	3/22/11	5:44	36.19
3/21/11	12:09	45.39	3/21/11	16:34	43.31	3/21/11	20:59	38.33	3/22/11	1:24	36.96	3/22/11	5:49	36.19
3/21/11	12:14	45.39	3/21/11	16:39	43.11	3/21/11	21:04	38.30	3/22/11	1:29	36.94	3/22/11	5:54	36.17
3/21/11	12:19	45.39	3/21/11	16:44	42.91	3/21/11	21:09	38.26	3/22/11	1:34	36.92	3/22/11	5:59	36.15
3/21/11	12:24	45.40	3/21/11	16:49	42.71	3/21/11	21:14	38.21	3/22/11	1:39	36.91	3/22/11	6:04	36.15
3/21/11	12:29	45.40	3/21/11	16:54	42.52	3/21/11	21:19	38.18	3/22/11	1:44	36.89	3/22/11	6:09	36.14
3/21/11	12:34	45.40	3/21/11	16:59	42.34	3/21/11	21:24	38.15	3/22/11	1:49	36.87	3/22/11	6:14	36.14
3/21/11	12:39	45.40	3/21/11	17:04	42.15	3/21/11	21:29	38.11	3/22/11	1:54	36.86	3/22/11	6:19	36.12
3/21/11	12:44	45.42	3/21/11	17:09	42.00	3/21/11	21:34	38.06	3/22/11	1:59	36.84	3/22/11	6:24	36.10
3/21/11	12:49	45.42	3/21/11	17:14	41.85	3/21/11	21:39	38.03	3/22/11	2:04	36.81	3/22/11	6:29	36.10
3/21/11	12:54	45.42	3/21/11	17:19	41.70	3/21/11	21:44	38.00	3/22/11	2:09	36.77	3/22/11	6:34	36.09
3/21/11	12:59	45.42	3/21/11	17:24	41.55	3/21/11	21:49	37.96	3/22/11	2:14	36.77	3/22/11	6:39	36.07
3/21/11	13:04	45.40	3/21/11	17:29	41.42	3/21/11	21:54	37.93	3/22/11	2:19	36.76	3/22/11	6:44	36.07
3/21/11	13:09	45.40	3/21/11	17:34	41.28	3/21/11	21:59	37.90	3/22/11	2:24	36.74	3/22/11	6:49	36.05
3/21/11	13:14	45.42	3/21/11	17:39	41.16	3/21/11	22:04	37.88	3/22/11	2:29	36.72	3/22/11	6:54	36.03
3/21/11	13:19	45.42	3/21/11	17:44	41.05	3/21/11	22:09	37.86	3/22/11	2:34	36.71	3/22/11	6:59	36.03
3/21/11	13:24	45.42	3/21/11	17:49	40.91	3/21/11	22:14	37.83	3/22/11	2:39	36.69	3/22/11	7:04	36.03
3/21/11	13:29	45.42	3/21/11	17:54	40.81	3/21/11	22:19	37.79	3/22/11	2:44	36.69	3/22/11	7:09	36.03
3/21/11	13:34	45.42	3/21/11	17:59	40.71	3/21/11	22:24	37.76	3/22/11	2:49	36.67	3/22/11	7:14	36.03
3/21/11	13:39	45.44	3/21/11	18:04	40.58	3/21/11	22:29	37.74	3/22/11	2:54	36.64	3/22/11	7:19	36.02

TABLE A.1-5. TRANSDUCER DATA FOR OBSERVATION WELL 1087, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/22/11	7:24	36.02	3/22/11	11:49	35.67	3/22/11	16:14	35.35	3/22/11	20:39	35.13	3/23/11	1:04	35.11
3/22/11	7:29	36.00	3/22/11	11:54	35.67	3/22/11	16:19	35.35	3/22/11	20:44	35.13	3/23/11	1:09	35.11
3/22/11	7:34	35.98	3/22/11	11:59	35.65	3/22/11	16:24	35.35	3/22/11	20:49	35.13	3/23/11	1:14	35.11
3/22/11	7:39	35.97	3/22/11	12:04	35.63	3/22/11	16:29	35.33	3/22/11	20:54	35.13	3/23/11	1:19	35.11
3/22/11	7:44	35.97	3/22/11	12:09	35.63	3/22/11	16:34	35.33	3/22/11	20:59	35.13	3/23/11	1:24	35.11
3/22/11	7:49	35.97	3/22/11	12:14	35.63	3/22/11	16:39	35.33	3/22/11	21:04	35.15	3/23/11	1:29	35.11
3/22/11	7:54	35.95	3/22/11	12:19	35.63	3/22/11	16:44	35.32	3/22/11	21:09	35.15	3/23/11	1:34	35.11
3/22/11	7:59	35.93	3/22/11	12:24	35.62	3/22/11	16:49	35.32	3/22/11	21:14	35.15	3/23/11	1:39	35.11
3/22/11	8:04	35.95	3/22/11	12:29	35.62	3/22/11	16:54	35.32	3/22/11	21:19	35.15	3/23/11	1:44	35.11
3/22/11	8:09	35.93	3/22/11	12:34	35.62	3/22/11	16:59	35.30	3/22/11	21:24	35.15	3/23/11	1:49	35.11
3/22/11	8:14	35.92	3/22/11	12:39	35.62	3/22/11	17:04	35.30	3/22/11	21:29	35.13	3/23/11	1:54	35.11
3/22/11	8:19	35.92	3/22/11	12:44	35.62	3/22/11	17:09	35.30	3/22/11	21:34	35.13	3/23/11	1:59	35.10
3/22/11	8:24	35.92	3/22/11	12:49	35.62	3/22/11	17:14	35.30	3/22/11	21:39	35.13	3/23/11	2:04	35.11
3/22/11	8:29	35.90	3/22/11	12:54	35.62	3/22/11	17:19	35.28	3/22/11	21:44	35.13	3/23/11	2:09	35.13
3/22/11	8:34	35.90	3/22/11	12:59	35.60	3/22/11	17:24	35.28	3/22/11	21:49	35.13	3/23/11	2:14	35.13
3/22/11	8:39	35.88	3/22/11	13:04	35.57	3/22/11	17:29	35.28	3/22/11	21:54	35.11	3/23/11	2:19	35.11
3/22/11	8:44	35.88	3/22/11	13:09	35.57	3/22/11	17:34	35.27	3/22/11	21:59	35.11	3/23/11	2:24	35.11
3/22/11	8:49	35.87	3/22/11	13:14	35.57	3/22/11	17:39	35.27	3/22/11	22:04	35.15	3/23/11	2:29	35.11
3/22/11	8:54	35.87	3/22/11	13:19	35.57	3/22/11	17:44	35.27	3/22/11	22:09	35.15	3/23/11	2:34	35.11
3/22/11	8:59	35.85	3/22/11	13:24	35.55	3/22/11	17:49	35.27	3/22/11	22:14	35.15	3/23/11	2:39	35.11
3/22/11	9:04	35.87	3/22/11	13:29	35.55	3/22/11	17:54	35.25	3/22/11	22:19	35.15	3/23/11	2:44	35.10
3/22/11	9:09	35.87	3/22/11	13:34	35.55	3/22/11	17:59	35.25	3/22/11	22:24	35.15	3/23/11	2:49	35.10
3/22/11	9:14	35.85	3/22/11	13:39	35.55	3/22/11	18:04	35.23	3/22/11	22:29	35.15	3/23/11	2:54	35.10
3/22/11	9:19	35.85	3/22/11	13:44	35.55	3/22/11	18:09	35.23	3/22/11	22:34	35.15	3/23/11	2:59	35.10
3/22/11	9:24	35.83	3/22/11	13:49	35.53	3/22/11	18:14	35.23	3/22/11	22:39	35.15	3/23/11	3:04	35.10
3/22/11	9:29	35.83	3/22/11	13:54	35.53	3/22/11	18:19	35.23	3/22/11	22:44	35.15	3/23/11	3:09	35.10
3/22/11	9:34	35.83	3/22/11	13:59	35.53	3/22/11	18:24	35.23	3/22/11	22:49	35.15	3/23/11	3:14	35.10
3/22/11	9:39	35.83	3/22/11	14:04	35.50	3/22/11	18:29	35.22	3/22/11	22:54	35.15	3/23/11	3:19	35.10
3/22/11	9:44	35.82	3/22/11	14:09	35.50	3/22/11	18:34	35.22	3/22/11	22:59	35.15	3/23/11	3:24	35.10
3/22/11	9:49	35.80	3/22/11	14:14	35.48	3/22/11	18:39	35.22	3/22/11	23:04	35.15	3/23/11	3:29	35.10
3/22/11	9:54	35.80	3/22/11	14:19	35.48	3/22/11	18:44	35.20	3/22/11	23:09	35.13	3/23/11	3:34	35.10
3/22/11	9:59	35.80	3/22/11	14:24	35.48	3/22/11	18:49	35.20	3/22/11	23:14	35.13	3/23/11	3:39	35.10
3/22/11	10:04	35.78	3/22/11	14:29	35.48	3/22/11	18:54	35.20	3/22/11	23:19	35.13	3/23/11	3:44	35.08
3/22/11	10:09	35.78	3/22/11	14:34	35.48	3/22/11	18:59	35.20	3/22/11	23:24	35.15	3/23/11	3:49	35.08
3/22/11	10:14	35.77	3/22/11	14:39	35.48	3/22/11	19:04	35.20	3/22/11	23:29	35.13	3/23/11	3:54	35.08
3/22/11	10:19	35.77	3/22/11	14:44	35.47	3/22/11	19:09	35.20	3/22/11	23:34	35.13	3/23/11	3:59	35.08
3/22/11	10:24	35.75	3/22/11	14:49	35.47	3/22/11	19:14	35.20	3/22/11	23:39	35.13	3/23/11	4:04	35.06
3/22/11	10:29	35.75	3/22/11	14:54	35.45	3/22/11	19:19	35.20	3/22/11	23:44	35.13	3/23/11	4:09	35.05
3/22/11	10:34	35.75	3/22/11	14:59	35.45	3/22/11	19:24	35.18	3/22/11	23:49	35.13	3/23/11	4:14	35.05
3/22/11	10:39	35.75	3/22/11	15:04	35.43	3/22/11	19:29	35.18	3/22/11	23:54	35.13	3/23/11	4:19	35.05
3/22/11	10:44	35.73	3/22/11	15:09	35.43	3/22/11	19:34	35.18	3/22/11	23:59	35.13	3/23/11	4:24	35.05
3/22/11	10:49	35.73	3/22/11	15:14	35.43	3/22/11	19:39	35.18	3/23/11	0:04	35.11	3/23/11	4:29	35.05
3/22/11	10:54	35.73	3/22/11	15:19	35.43	3/22/11	19:44	35.17	3/23/11	0:09	35.13	3/23/11	4:34	35.05
3/22/11	10:59	35.72	3/22/11	15:24	35.42	3/22/11	19:49	35.17	3/23/11	0:14	35.13	3/23/11	4:39	35.05
3/22/11	11:04	35.70	3/22/11	15:29	35.42	3/22/11	19:54	35.17	3/23/11	0:19	35.11	3/23/11	4:44	35.03
3/22/11	11:09	35.70	3/22/11	15:34	35.40	3/22/11	19:59	35.17	3/23/11	0:24	35.13	3/23/11	4:49	35.05
3/22/11	11:14	35.70	3/22/11	15:39	35.40	3/22/11	20:04	35.16	3/23/11	0:29	35.13	3/23/11	4:54	35.05
3/22/11	11:19	35.68	3/22/11	15:44	35.40	3/22/11	20:09	35.16	3/23/11	0:34	35.11	3/23/11	4:59	35.03
3/22/11	11:24	35.68	3/22/11	15:49	35.40	3/22/11	20:14	35.16	3/23/11	0:39	35.11	3/23/11	5:04	35.03
3/22/11	11:29	35.68	3/22/11	15:54	35.40	3/22/11	20:19	35.16	3/23/11	0:44	35.11	3/23/11	5:09	35.03
3/22/11	11:34	35.68	3/22/11	15:59	35.40	3/22/11	20:24	35.16	3/23/11	0:49	35.13	3/23/11	5:14	35.01
3/22/11	11:39	35.67	3/22/11	16:04	35.37	3/22/11	20:29	35.15	3/23/11	0:54	35.13	3/23/11	5:19	35.01
3/22/11	11:44	35.67	3/22/11	16:09	35.35	3/22/11	20:34	35.15	3/23/11	0:59	35.11	3/23/11	5:24	35.01

TABLE A.1-5. TRANSDUCER DATA FOR OBSERVATION WELL 1087, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/23/11	5:29	35.01	3/23/11	9:54	34.90	3/23/11	14:19	34.85	3/23/11	18:44	34.73	3/23/11	23:09	34.74
3/23/11	5:34	35.01	3/23/11	9:59	34.90	3/23/11	14:24	34.85	3/23/11	18:49	34.73	3/23/11	23:14	34.74
3/23/11	5:39	35.00	3/23/11	10:04	34.90	3/23/11	14:29	34.85	3/23/11	18:54	34.73	3/23/11	23:19	34.74
3/23/11	5:44	35.00	3/23/11	10:09	34.88	3/23/11	14:34	34.85	3/23/11	18:59	34.73	3/23/11	23:24	34.74
3/23/11	5:49	35.00	3/23/11	10:14	34.90	3/23/11	14:39	34.85	3/23/11	19:04	34.73	3/23/11	23:29	34.74
3/23/11	5:54	35.00	3/23/11	10:19	34.88	3/23/11	14:44	34.85	3/23/11	19:09	34.73	3/23/11	23:34	34.74
3/23/11	5:59	34.98	3/23/11	10:24	34.90	3/23/11	14:49	34.85	3/23/11	19:14	34.73	3/23/11	23:39	34.74
3/23/11	6:04	35.00	3/23/11	10:29	34.88	3/23/11	14:54	34.85	3/23/11	19:19	34.73	3/23/11	23:44	34.74
3/23/11	6:09	35.00	3/23/11	10:34	34.88	3/23/11	14:59	34.85	3/23/11	19:24	34.71	3/23/11	23:49	34.74
3/23/11	6:14	35.00	3/23/11	10:39	34.88	3/23/11	15:04	34.81	3/23/11	19:29	34.71	3/23/11	23:54	34.74
3/23/11	6:19	35.00	3/23/11	10:44	34.88	3/23/11	15:09	34.81	3/23/11	19:34	34.71	3/23/11	23:59	34.74
3/23/11	6:24	35.00	3/23/11	10:49	34.88	3/23/11	15:14	34.81	3/23/11	19:39	34.71	3/24/11	0:04	34.74
3/23/11	6:29	35.00	3/23/11	10:54	34.88	3/23/11	15:19	34.81	3/23/11	19:44	34.71	3/24/11	0:09	34.74
3/23/11	6:34	34.98	3/23/11	10:59	34.88	3/23/11	15:24	34.81	3/23/11	19:49	34.71	3/24/11	0:14	34.74
3/23/11	6:39	34.98	3/23/11	11:04	34.88	3/23/11	15:29	34.81	3/23/11	19:54	34.71	3/24/11	0:19	34.74
3/23/11	6:44	34.98	3/23/11	11:09	34.88	3/23/11	15:34	34.81	3/23/11	19:59	34.71	3/24/11	0:24	34.74
3/23/11	6:49	34.98	3/23/11	11:14	34.88	3/23/11	15:39	34.81	3/23/11	20:04	34.73	3/24/11	0:29	34.74
3/23/11	6:54	34.96	3/23/11	11:19	34.88	3/23/11	15:44	34.81	3/23/11	20:09	34.71	3/24/11	0:34	34.74
3/23/11	6:59	34.96	3/23/11	11:24	34.88	3/23/11	15:49	34.80	3/23/11	20:14	34.71	3/24/11	0:39	34.74
3/23/11	7:04	34.96	3/23/11	11:29	34.88	3/23/11	15:54	34.80	3/23/11	20:19	34.71	3/24/11	0:44	34.76
3/23/11	7:09	34.95	3/23/11	11:34	34.88	3/23/11	15:59	34.81	3/23/11	20:24	34.71	3/24/11	0:49	34.74
3/23/11	7:14	34.95	3/23/11	11:39	34.88	3/23/11	16:04	34.78	3/23/11	20:29	34.71	3/24/11	0:54	34.74
3/23/11	7:19	34.95	3/23/11	11:44	34.88	3/23/11	16:09	34.78	3/23/11	20:34	34.71	3/24/11	0:59	34.74
3/23/11	7:24	34.95	3/23/11	11:49	34.88	3/23/11	16:14	34.78	3/23/11	20:39	34.71	3/24/11	1:04	34.74
3/23/11	7:29	34.95	3/23/11	11:54	34.88	3/23/11	16:19	34.78	3/23/11	20:44	34.71	3/24/11	1:09	34.74
3/23/11	7:34	34.93	3/23/11	11:59	34.88	3/23/11	16:24	34.78	3/23/11	20:49	34.70	3/24/11	1:14	34.76
3/23/11	7:39	34.93	3/23/11	12:04	34.88	3/23/11	16:29	34.78	3/23/11	20:54	34.70	3/24/11	1:19	34.76
3/23/11	7:44	34.93	3/23/11	12:09	34.88	3/23/11	16:34	34.78	3/23/11	20:59	34.70	3/24/11	1:24	34.76
3/23/11	7:49	34.93	3/23/11	12:14	34.88	3/23/11	16:39	34.78	3/23/11	21:04	34.71	3/24/11	1:29	34.76
3/23/11	7:54	34.93	3/23/11	12:19	34.88	3/23/11	16:44	34.78	3/23/11	21:09	34.71	3/24/11	1:34	34.76
3/23/11	7:59	34.93	3/23/11	12:24	34.88	3/23/11	16:49	34.76	3/23/11	21:14	34.71	3/24/11	1:39	34.76
3/23/11	8:04	34.95	3/23/11	12:29	34.88	3/23/11	16:54	34.76	3/23/11	21:19	34.71	3/24/11	1:44	34.76
3/23/11	8:09	34.93	3/23/11	12:34	34.88	3/23/11	16:59	34.76	3/23/11	21:24	34.71	3/24/11	1:49	34.76
3/23/11	8:14	34.93	3/23/11	12:39	34.88	3/23/11	17:04	34.78	3/23/11	21:29	34.71	3/24/11	1:54	34.76
3/23/11	8:19	34.93	3/23/11	12:44	34.88	3/23/11	17:09	34.76	3/23/11	21:34	34.69	3/24/11	1:59	34.76
3/23/11	8:24	34.93	3/23/11	12:49	34.88	3/23/11	17:14	34.76	3/23/11	21:39	34.69	3/24/11	2:04	34.74
3/23/11	8:29	34.93	3/23/11	12:54	34.88	3/23/11	17:19	34.76	3/23/11	21:44	34.69	3/24/11	2:09	34.74
3/23/11	8:34	34.93	3/23/11	12:59	34.88	3/23/11	17:24	34.76	3/23/11	21:49	34.69	3/24/11	2:14	34.74
3/23/11	8:39	34.93	3/23/11	13:04	34.86	3/23/11	17:29	34.76	3/23/11	21:54	34.69	3/24/11	2:19	34.74
3/23/11	8:44	34.93	3/23/11	13:09	34.86	3/23/11	17:34	34.76	3/23/11	21:59	34.69	3/24/11	2:24	34.74
3/23/11	8:49	34.91	3/23/11	13:14	34.86	3/23/11	17:39	34.75	3/23/11	22:04	34.73	3/24/11	2:29	34.74
3/23/11	8:54	34.91	3/23/11	13:19	34.86	3/23/11	17:44	34.76	3/23/11	22:09	34.73	3/24/11	2:34	34.74
3/23/11	8:59	34.91	3/23/11	13:24	34.86	3/23/11	17:49	34.76	3/23/11	22:14	34.73	3/24/11	2:39	34.74
3/23/11	9:04	34.91	3/23/11	13:29	34.86	3/23/11	17:54	34.75	3/23/11	22:19	34.73	3/24/11	2:44	34.74
3/23/11	9:09	34.91	3/23/11	13:34	34.86	3/23/11	17:59	34.75	3/23/11	22:24	34.73	3/24/11	2:49	34.74
3/23/11	9:14	34.91	3/23/11	13:39	34.86	3/23/11	18:04	34.75	3/23/11	22:29	34.73	3/24/11	2:54	34.74
3/23/11	9:19	34.91	3/23/11	13:44	34.86	3/23/11	18:09	34.73	3/23/11	22:34	34.73	3/24/11	2:59	34.74
3/23/11	9:24	34.90	3/23/11	13:49	34.86	3/23/11	18:14	34.75	3/23/11	22:39	34.73	3/24/11	3:04	34.76
3/23/11	9:29	34.90	3/23/11	13:54	34.86	3/23/11	18:19	34.73	3/23/11	22:44	34.73	3/24/11	3:09	34.74
3/23/11	9:34	34.90	3/23/11	13:59	34.86	3/23/11	18:24	34.73	3/23/11	22:49	34.73	3/24/11	3:14	34.74
3/23/11	9:39	34.90	3/23/11	14:04	34.85	3/23/11	18:29	34.73	3/23/11	22:54	34.73	3/24/11	3:19	34.76
3/23/11	9:44	34.90	3/23/11	14:09	34.85	3/23/11	18:34	34.73	3/23/11	22:59	34.73	3/24/11	3:24	34.74
3/23/11	9:49	34.90	3/23/11	14:14	34.85	3/23/11	18:39	34.73	3/23/11	23:04	34.74	3/24/11	3:29	34.74

TABLE A.1-5. TRANSDUCER DATA FOR OBSERVATION WELL 1087, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/24/11	3:34	34.74	3/24/11	7:59	34.68									
3/24/11	3:39	34.74	3/24/11	8:04	34.71									
3/24/11	3:44	34.74	3/24/11	8:09	34.69									
3/24/11	3:49	34.74	3/24/11	8:14	34.69									
3/24/11	3:54	34.74	3/24/11	8:19	34.69									
3/24/11	3:59	34.74	3/24/11	8:24	34.69									
3/24/11	4:04	34.74	3/24/11	8:29	34.68									
3/24/11	4:09	34.73	3/24/11	8:34	34.68									
3/24/11	4:14	34.74	3/24/11	8:39	34.68									
3/24/11	4:19	34.74	3/24/11	8:44	34.68									
3/24/11	4:24	34.73	3/24/11	8:49	34.68									
3/24/11	4:29	34.73	3/24/11	8:54	34.68									
3/24/11	4:34	34.73	3/24/11	8:59	34.68									
3/24/11	4:39	34.73	3/24/11	9:04	34.69									
3/24/11	4:44	34.74	3/24/11	9:09	34.68									
3/24/11	4:49	34.73	3/24/11	9:14	34.68									
3/24/11	4:54	34.73	3/24/11	9:19	34.68									
3/24/11	4:59	34.73	3/24/11	9:24	34.69									
3/24/11	5:04	34.73	3/24/11	9:29	34.68									
3/24/11	5:09	34.73	3/24/11	9:34	34.68									
3/24/11	5:14	34.73	3/24/11	9:39	34.68									
3/24/11	5:19	34.73	3/24/11	9:44	34.68									
3/24/11	5:24	34.73	3/24/11	9:49	34.66									
3/24/11	5:29	34.73	3/24/11	9:54	34.68									
3/24/11	5:34	34.73	3/24/11	9:59	34.66									
3/24/11	5:39	34.73	3/24/11	10:04	34.68									
3/24/11	5:44	34.71												
3/24/11	5:49	34.71												
3/24/11	5:54	34.71												
3/24/11	5:59	34.71												
3/24/11	6:04	34.71												
3/24/11	6:09	34.71												
3/24/11	6:14	34.71												
3/24/11	6:19	34.71												
3/24/11	6:24	34.69												
3/24/11	6:29	34.69												
3/24/11	6:34	34.69												
3/24/11	6:39	34.69												
3/24/11	6:44	34.69												
3/24/11	6:49	34.69												
3/24/11	6:54	34.69												
3/24/11	6:59	34.69												
3/24/11	7:04	34.69												
3/24/11	7:09	34.69												
3/24/11	7:14	34.68												
3/24/11	7:19	34.68												
3/24/11	7:24	34.68												
3/24/11	7:29	34.68												
3/24/11	7:34	34.68												
3/24/11	7:39	34.68												
3/24/11	7:44	34.68												
3/24/11	7:49	34.68												
3/24/11	7:54	34.68												

TABLE A.1-6. TRANSDUCER DATA FOR OBSERVATION WELL 1011.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/18/11	15:36	28.73	3/18/11	20:01	28.55	3/19/11	0:26	28.63	3/19/11	4:51	28.60	3/19/11	9:16	28.61
3/18/11	15:41	28.61	3/18/11	20:06	28.55	3/19/11	0:31	28.63	3/19/11	4:56	28.58	3/19/11	9:21	28.61
3/18/11	15:46	28.60	3/18/11	20:11	28.55	3/19/11	0:36	28.65	3/19/11	5:01	28.60	3/19/11	9:26	28.61
3/18/11	15:51	28.60	3/18/11	20:16	28.55	3/19/11	0:41	28.63	3/19/11	5:06	28.60	3/19/11	9:31	28.61
3/18/11	15:56	28.60	3/18/11	20:21	28.55	3/19/11	0:46	28.63	3/19/11	5:11	28.60	3/19/11	9:36	28.61
3/18/11	16:01	28.58	3/18/11	20:26	28.55	3/19/11	0:51	28.63	3/19/11	5:16	28.60	3/19/11	9:41	28.61
3/18/11	16:06	28.58	3/18/11	20:31	28.55	3/19/11	0:56	28.63	3/19/11	5:21	28.60	3/19/11	9:46	28.61
3/18/11	16:11	28.58	3/18/11	20:36	28.55	3/19/11	1:01	28.65	3/19/11	5:26	28.60	3/19/11	9:51	28.61
3/18/11	16:16	28.58	3/18/11	20:41	28.55	3/19/11	1:06	28.65	3/19/11	5:31	28.60	3/19/11	9:56	28.61
3/18/11	16:21	28.58	3/18/11	20:46	28.55	3/19/11	1:11	28.65	3/19/11	5:36	28.60	3/19/11	10:01	28.63
3/18/11	16:26	28.56	3/18/11	20:51	28.55	3/19/11	1:16	28.65	3/19/11	5:41	28.60	3/19/11	10:06	28.63
3/18/11	16:31	28.58	3/18/11	20:56	28.55	3/19/11	1:21	28.65	3/19/11	5:46	28.60	3/19/11	10:11	28.63
3/18/11	16:36	28.58	3/18/11	21:01	28.58	3/19/11	1:26	28.65	3/19/11	5:51	28.60	3/19/11	10:16	28.63
3/18/11	16:41	28.56	3/18/11	21:06	28.58	3/19/11	1:31	28.65	3/19/11	5:56	28.60	3/19/11	10:21	28.63
3/18/11	16:46	28.56	3/18/11	21:11	28.58	3/19/11	1:36	28.63	3/19/11	6:01	28.60	3/19/11	10:26	28.63
3/18/11	16:51	28.56	3/18/11	21:16	28.58	3/19/11	1:41	28.63	3/19/11	6:06	28.60	3/19/11	10:31	28.63
3/18/11	16:56	28.56	3/18/11	21:21	28.58	3/19/11	1:46	28.63	3/19/11	6:11	28.60	3/19/11	10:36	28.63
3/18/11	17:01	28.55	3/18/11	21:26	28.58	3/19/11	1:51	28.63	3/19/11	6:16	28.60	3/19/11	10:41	28.63
3/18/11	17:06	28.55	3/18/11	21:31	28.58	3/19/11	1:56	28.63	3/19/11	6:21	28.60	3/19/11	10:46	28.63
3/18/11	17:11	28.55	3/18/11	21:36	28.56	3/19/11	2:01	28.61	3/19/11	6:26	28.60	3/19/11	10:51	28.65
3/18/11	17:16	28.55	3/18/11	21:41	28.58	3/19/11	2:06	28.61	3/19/11	6:31	28.60	3/19/11	10:56	28.65
3/18/11	17:21	28.55	3/18/11	21:46	28.56	3/19/11	2:11	28.61	3/19/11	6:36	28.60	3/19/11	11:01	28.61
3/18/11	17:26	28.55	3/18/11	21:51	28.56	3/19/11	2:16	28.61	3/19/11	6:41	28.60	3/19/11	11:06	28.63
3/18/11	17:31	28.55	3/18/11	21:56	28.56	3/19/11	2:21	28.63	3/19/11	6:46	28.60	3/19/11	11:11	28.63
3/18/11	17:36	28.55	3/18/11	22:01	28.61	3/19/11	2:26	28.61	3/19/11	6:51	28.60	3/19/11	11:16	28.63
3/18/11	17:41	28.55	3/18/11	22:06	28.60	3/19/11	2:31	28.61	3/19/11	6:56	28.60	3/19/11	11:21	28.63
3/18/11	17:46	28.55	3/18/11	22:11	28.60	3/19/11	2:36	28.61	3/19/11	7:01	28.60	3/19/11	11:26	28.63
3/18/11	17:51	28.55	3/18/11	22:16	28.60	3/19/11	2:41	28.61	3/19/11	7:06	28.60	3/19/11	11:31	28.63
3/18/11	17:56	28.55	3/18/11	22:21	28.60	3/19/11	2:46	28.61	3/19/11	7:11	28.60	3/19/11	11:36	28.63
3/18/11	18:01	28.50	3/18/11	22:26	28.60	3/19/11	2:51	28.61	3/19/11	7:16	28.60	3/19/11	11:41	28.63
3/18/11	18:06	28.50	3/18/11	22:31	28.60	3/19/11	2:56	28.61	3/19/11	7:21	28.60	3/19/11	11:46	28.63
3/18/11	18:11	28.50	3/18/11	22:36	28.60	3/19/11	3:01	28.61	3/19/11	7:26	28.56	3/19/11	11:51	28.63
3/18/11	18:16	28.50	3/18/11	22:41	28.60	3/19/11	3:06	28.61	3/19/11	7:31	28.56	3/19/11	11:56	28.63
3/18/11	18:21	28.50	3/18/11	22:46	28.60	3/19/11	3:11	28.61	3/19/11	7:36	28.56	3/19/11	12:01	28.61
3/18/11	18:26	28.48	3/18/11	22:51	28.60	3/19/11	3:16	28.61	3/19/11	7:41	28.56	3/19/11	12:06	28.61
3/18/11	18:31	28.48	3/18/11	22:56	28.61	3/19/11	3:21	28.61	3/19/11	7:46	28.56	3/19/11	12:11	28.61
3/18/11	18:36	28.48	3/18/11	23:01	28.63	3/19/11	3:26	28.61	3/19/11	7:51	28.56	3/19/11	12:16	28.61
3/18/11	18:41	28.50	3/18/11	23:06	28.63	3/19/11	3:31	28.61	3/19/11	7:56	28.56	3/19/11	12:21	28.61
3/18/11	18:46	28.48	3/18/11	23:11	28.61	3/19/11	3:36	28.61	3/19/11	8:01	28.60	3/19/11	12:26	28.61
3/18/11	18:51	28.48	3/18/11	23:16	28.63	3/19/11	3:41	28.61	3/19/11	8:06	28.60	3/19/11	12:31	28.63
3/18/11	18:56	28.48	3/18/11	23:21	28.63	3/19/11	3:46	28.61	3/19/11	8:11	28.60	3/19/11	12:36	28.63
3/18/11	19:01	28.53	3/18/11	23:26	28.61	3/19/11	3:51	28.61	3/19/11	8:16	28.60	3/19/11	12:41	28.63
3/18/11	19:06	28.53	3/18/11	23:31	28.63	3/19/11	3:56	28.61	3/19/11	8:21	28.60	3/19/11	12:46	28.63
3/18/11	19:11	28.53	3/18/11	23:36	28.61	3/19/11	4:01	28.60	3/19/11	8:26	28.60	3/19/11	12:51	28.63
3/18/11	19:16	28.53	3/18/11	23:41	28.61	3/19/11	4:06	28.60	3/19/11	8:31	28.60	3/19/11	12:56	28.63
3/18/11	19:21	28.53	3/18/11	23:46	28.61	3/19/11	4:11	28.60	3/19/11	8:36	28.60	3/19/11	13:01	28.60
3/18/11	19:26	28.53	3/18/11	23:51	28.63	3/19/11	4:16	28.60	3/19/11	8:41	28.60	3/19/11	13:06	28.60
3/18/11	19:31	28.53	3/18/11	23:56	28.61	3/19/11	4:21	28.60	3/19/11	8:46	28.60	3/19/11	13:11	28.60
3/18/11	19:36	28.53	3/19/11	0:01	28.63	3/19/11	4:26	28.60	3/19/11	8:51	28.60	3/19/11	13:16	28.60
3/18/11	19:41	28.53	3/19/11	0:06	28.63	3/19/11	4:31	28.60	3/19/11	8:56	28.60	3/19/11	13:21	28.60
3/18/11	19:46	28.53	3/19/11	0:11	28.65	3/19/11	4:36	28.60	3/19/11	9:01	28.61	3/19/11	13:26	28.60
3/18/11	19:51	28.53	3/19/11	0:16	28.65	3/19/11	4:41	28.58	3/19/11	9:06	28.61	3/19/11	13:31	28.58
3/18/11	19:56	28.53	3/19/11	0:21	28.63	3/19/11	4:46	28.60	3/19/11	9:11	28.61	3/19/11	13:36	28.58

TABLE A.1-6. TRANSDUCER DATA FOR OBSERVATION WELL 1011, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/19/11	13:41	28.58	3/19/11	18:06	28.53	3/19/11	22:31	28.84	3/20/11	2:56	29.09	3/20/11	7:21	29.21
3/19/11	13:46	28.58	3/19/11	18:11	28.53	3/19/11	22:36	28.84	3/20/11	3:01	29.08	3/20/11	7:26	29.21
3/19/11	13:51	28.58	3/19/11	18:16	28.53	3/19/11	22:41	28.86	3/20/11	3:06	29.08	3/20/11	7:31	29.21
3/19/11	13:56	28.58	3/19/11	18:21	28.53	3/19/11	22:46	28.86	3/20/11	3:11	29.08	3/20/11	7:36	29.21
3/19/11	14:01	28.55	3/19/11	18:26	28.53	3/19/11	22:51	28.86	3/20/11	3:16	29.08	3/20/11	7:41	29.21
3/19/11	14:06	28.55	3/19/11	18:31	28.55	3/19/11	22:56	28.86	3/20/11	3:21	29.08	3/20/11	7:46	29.21
3/19/11	14:11	28.55	3/19/11	18:36	28.55	3/19/11	23:01	28.89	3/20/11	3:26	29.08	3/20/11	7:51	29.23
3/19/11	14:16	28.55	3/19/11	18:41	28.56	3/19/11	23:06	28.89	3/20/11	3:31	29.09	3/20/11	7:56	29.21
3/19/11	14:21	28.55	3/19/11	18:46	28.56	3/19/11	23:11	28.89	3/20/11	3:36	29.09	3/20/11	8:01	29.24
3/19/11	14:26	28.55	3/19/11	18:51	28.56	3/19/11	23:16	28.89	3/20/11	3:41	29.09	3/20/11	8:06	29.24
3/19/11	14:31	28.55	3/19/11	18:56	28.56	3/19/11	23:21	28.91	3/20/11	3:46	29.09	3/20/11	8:11	29.24
3/19/11	14:36	28.55	3/19/11	19:01	28.58	3/19/11	23:26	28.91	3/20/11	3:51	29.09	3/20/11	8:16	29.24
3/19/11	14:41	28.55	3/19/11	19:06	28.58	3/19/11	23:31	28.91	3/20/11	3:56	29.09	3/20/11	8:21	29.24
3/19/11	14:46	28.55	3/19/11	19:11	28.58	3/19/11	23:36	28.93	3/20/11	4:01	29.09	3/20/11	8:26	29.24
3/19/11	14:51	28.56	3/19/11	19:16	28.58	3/19/11	23:41	28.93	3/20/11	4:06	29.11	3/20/11	8:31	29.24
3/19/11	14:56	28.56	3/19/11	19:21	28.60	3/19/11	23:46	28.93	3/20/11	4:11	29.11	3/20/11	8:36	29.26
3/19/11	15:01	28.55	3/19/11	19:26	28.60	3/19/11	23:51	28.94	3/20/11	4:16	29.11	3/20/11	8:41	29.26
3/19/11	15:06	28.55	3/19/11	19:31	28.60	3/19/11	23:56	28.94	3/20/11	4:21	29.11	3/20/11	8:46	29.26
3/19/11	15:11	28.55	3/19/11	19:36	28.61	3/20/11	0:01	28.94	3/20/11	4:26	29.11	3/20/11	8:51	29.26
3/19/11	15:16	28.55	3/19/11	19:41	28.61	3/20/11	0:06	28.94	3/20/11	4:31	29.11	3/20/11	8:56	29.26
3/19/11	15:21	28.55	3/19/11	19:46	28.63	3/20/11	0:11	28.96	3/20/11	4:36	29.11	3/20/11	9:01	29.29
3/19/11	15:26	28.55	3/19/11	19:51	28.63	3/20/11	0:16	28.96	3/20/11	4:41	29.13	3/20/11	9:06	29.31
3/19/11	15:31	28.55	3/19/11	19:56	28.63	3/20/11	0:21	28.98	3/20/11	4:46	29.13	3/20/11	9:11	29.31
3/19/11	15:36	28.56	3/19/11	20:01	28.65	3/20/11	0:26	28.98	3/20/11	4:51	29.13	3/20/11	9:16	29.31
3/19/11	15:41	28.56	3/19/11	20:06	28.65	3/20/11	0:31	28.98	3/20/11	4:56	29.13	3/20/11	9:21	29.31
3/19/11	15:46	28.56	3/19/11	20:11	28.66	3/20/11	0:36	28.98	3/20/11	5:01	29.14	3/20/11	9:26	29.31
3/19/11	15:51	28.56	3/19/11	20:16	28.66	3/20/11	0:41	28.99	3/20/11	5:06	29.14	3/20/11	9:31	29.31
3/19/11	15:56	28.56	3/19/11	20:21	28.66	3/20/11	0:46	28.99	3/20/11	5:11	29.14	3/20/11	9:36	29.33
3/19/11	16:01	28.53	3/19/11	20:26	28.66	3/20/11	0:51	28.99	3/20/11	5:16	29.14	3/20/11	9:41	29.33
3/19/11	16:06	28.53	3/19/11	20:31	28.68	3/20/11	0:56	28.99	3/20/11	5:21	29.14	3/20/11	9:46	29.33
3/19/11	16:11	28.53	3/19/11	20:36	28.68	3/20/11	1:01	28.99	3/20/11	5:26	29.14	3/20/11	9:51	29.34
3/19/11	16:16	28.53	3/19/11	20:41	28.70	3/20/11	1:06	29.01	3/20/11	5:31	29.14	3/20/11	9:56	29.33
3/19/11	16:21	28.53	3/19/11	20:46	28.70	3/20/11	1:11	29.01	3/20/11	5:36	29.14	3/20/11	10:01	29.34
3/19/11	16:26	28.55	3/19/11	20:51	28.70	3/20/11	1:16	29.01	3/20/11	5:41	29.14	3/20/11	10:06	29.34
3/19/11	16:31	28.55	3/19/11	20:56	28.70	3/20/11	1:21	29.03	3/20/11	5:46	29.14	3/20/11	10:11	29.34
3/19/11	16:36	28.55	3/19/11	21:01	28.73	3/20/11	1:26	29.03	3/20/11	5:51	29.14	3/20/11	10:16	29.34
3/19/11	16:41	28.55	3/19/11	21:06	28.73	3/20/11	1:31	29.03	3/20/11	5:56	29.14	3/20/11	10:21	29.34
3/19/11	16:46	28.55	3/19/11	21:11	28.75	3/20/11	1:36	29.03	3/20/11	6:01	29.16	3/20/11	10:26	29.36
3/19/11	16:51	28.55	3/19/11	21:16	28.75	3/20/11	1:41	29.03	3/20/11	6:06	29.16	3/20/11	10:31	29.36
3/19/11	16:56	28.55	3/19/11	21:21	28.75	3/20/11	1:46	29.04	3/20/11	6:11	29.18	3/20/11	10:36	29.36
3/19/11	17:01	28.53	3/19/11	21:26	28.75	3/20/11	1:51	29.04	3/20/11	6:16	29.18	3/20/11	10:41	29.36
3/19/11	17:06	28.53	3/19/11	21:31	28.76	3/20/11	1:56	29.04	3/20/11	6:21	29.18	3/20/11	10:46	29.38
3/19/11	17:11	28.53	3/19/11	21:36	28.76	3/20/11	2:01	29.04	3/20/11	6:26	29.18	3/20/11	10:51	29.38
3/19/11	17:16	28.53	3/19/11	21:41	28.76	3/20/11	2:06	29.04	3/20/11	6:31	29.18	3/20/11	10:56	29.38
3/19/11	17:21	28.53	3/19/11	21:46	28.78	3/20/11	2:11	29.04	3/20/11	6:36	29.18	3/20/11	11:01	29.36
3/19/11	17:26	28.53	3/19/11	21:51	28.78	3/20/11	2:16	29.06	3/20/11	6:41	29.18	3/20/11	11:06	29.36
3/19/11	17:31	28.53	3/19/11	21:56	28.80	3/20/11	2:21	29.06	3/20/11	6:46	29.18	3/20/11	11:11	29.37
3/19/11	17:36	28.53	3/19/11	22:01	28.81	3/20/11	2:26	29.06	3/20/11	6:51	29.18	3/20/11	11:16	29.37
3/19/11	17:41	28.53	3/19/11	22:06	28.81	3/20/11	2:31	29.08	3/20/11	6:56	29.18	3/20/11	11:21	29.37
3/19/11	17:46	28.53	3/19/11	22:11	28.83	3/20/11	2:36	29.08	3/20/11	7:01	29.19	3/20/11	11:26	29.37
3/19/11	17:51	28.53	3/19/11	22:16	28.83	3/20/11	2:41	29.08	3/20/11	7:06	29.19	3/20/11	11:31	29.37
3/19/11	17:56	28.53	3/19/11	22:21	28.83	3/20/11	2:46	29.08	3/20/11	7:11	29.21	3/20/11	11:36	29.39
3/19/11	18:01	28.51	3/19/11	22:26	28.83	3/20/11	2:51	29.08	3/20/11	7:16	29.21	3/20/11	11:41	29.39

TABLE A.1-6. TRANSDUCER DATA FOR OBSERVATION WELL 1011, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/20/11	11:46	29.39	3/20/11	16:11	29.42	3/20/11	20:36	29.47	3/21/11	1:01	29.59	3/21/11	5:26	29.62
3/20/11	11:51	29.39	3/20/11	16:16	29.42	3/20/11	20:41	29.47	3/21/11	1:06	29.59	3/21/11	5:31	29.62
3/20/11	11:56	29.39	3/20/11	16:21	29.44	3/20/11	20:46	29.47	3/21/11	1:11	29.61	3/21/11	5:36	29.62
3/20/11	12:01	29.41	3/20/11	16:26	29.44	3/20/11	20:51	29.47	3/21/11	1:16	29.61	3/21/11	5:41	29.62
3/20/11	12:06	29.41	3/20/11	16:31	29.42	3/20/11	20:56	29.47	3/21/11	1:21	29.61	3/21/11	5:46	29.62
3/20/11	12:11	29.41	3/20/11	16:36	29.44	3/20/11	21:01	29.49	3/21/11	1:26	29.61	3/21/11	5:51	29.62
3/20/11	12:16	29.41	3/20/11	16:41	29.44	3/20/11	21:06	29.49	3/21/11	1:31	29.61	3/21/11	5:56	29.62
3/20/11	12:21	29.41	3/20/11	16:46	29.44	3/20/11	21:11	29.49	3/21/11	1:36	29.61	3/21/11	6:01	29.64
3/20/11	12:26	29.42	3/20/11	16:51	29.44	3/20/11	21:16	29.51	3/21/11	1:41	29.61	3/21/11	6:06	29.64
3/20/11	12:31	29.42	3/20/11	16:56	29.44	3/20/11	21:21	29.51	3/21/11	1:46	29.61	3/21/11	6:11	29.64
3/20/11	12:36	29.42	3/20/11	17:01	29.41	3/20/11	21:26	29.51	3/21/11	1:51	29.61	3/21/11	6:16	29.64
3/20/11	12:41	29.42	3/20/11	17:06	29.41	3/20/11	21:31	29.51	3/21/11	1:56	29.61	3/21/11	6:21	29.64
3/20/11	12:46	29.42	3/20/11	17:11	29.41	3/20/11	21:36	29.51	3/21/11	2:01	29.61	3/21/11	6:26	29.64
3/20/11	12:51	29.42	3/20/11	17:16	29.42	3/20/11	21:41	29.51	3/21/11	2:06	29.61	3/21/11	6:31	29.64
3/20/11	12:56	29.44	3/20/11	17:21	29.41	3/20/11	21:46	29.51	3/21/11	2:11	29.62	3/21/11	6:36	29.64
3/20/11	13:01	29.41	3/20/11	17:26	29.42	3/20/11	21:51	29.51	3/21/11	2:16	29.61	3/21/11	6:41	29.64
3/20/11	13:06	29.41	3/20/11	17:31	29.42	3/20/11	21:56	29.51	3/21/11	2:21	29.62	3/21/11	6:46	29.64
3/20/11	13:11	29.42	3/20/11	17:36	29.42	3/20/11	22:01	29.54	3/21/11	2:26	29.62	3/21/11	6:51	29.64
3/20/11	13:16	29.42	3/20/11	17:41	29.42	3/20/11	22:06	29.54	3/21/11	2:31	29.62	3/21/11	6:56	29.64
3/20/11	13:21	29.42	3/20/11	17:46	29.42	3/20/11	22:11	29.54	3/21/11	2:36	29.62	3/21/11	7:01	29.66
3/20/11	13:26	29.42	3/20/11	17:51	29.42	3/20/11	22:16	29.54	3/21/11	2:41	29.62	3/21/11	7:06	29.66
3/20/11	13:31	29.42	3/20/11	17:56	29.42	3/20/11	22:21	29.54	3/21/11	2:46	29.62	3/21/11	7:11	29.66
3/20/11	13:36	29.44	3/20/11	18:01	29.42	3/20/11	22:26	29.54	3/21/11	2:51	29.62	3/21/11	7:16	29.66
3/20/11	13:41	29.44	3/20/11	18:06	29.42	3/20/11	22:31	29.54	3/21/11	2:56	29.62	3/21/11	7:21	29.66
3/20/11	13:46	29.44	3/20/11	18:11	29.42	3/20/11	22:36	29.56	3/21/11	3:01	29.62	3/21/11	7:26	29.66
3/20/11	13:51	29.44	3/20/11	18:16	29.42	3/20/11	22:41	29.56	3/21/11	3:06	29.62	3/21/11	7:31	29.66
3/20/11	13:56	29.44	3/20/11	18:21	29.42	3/20/11	22:46	29.56	3/21/11	3:11	29.62	3/21/11	7:36	29.66
3/20/11	14:01	29.41	3/20/11	18:26	29.42	3/20/11	22:51	29.56	3/21/11	3:16	29.62	3/21/11	7:41	29.66
3/20/11	14:06	29.41	3/20/11	18:31	29.44	3/20/11	22:56	29.56	3/21/11	3:21	29.62	3/21/11	7:46	29.66
3/20/11	14:11	29.42	3/20/11	18:36	29.44	3/20/11	23:01	29.56	3/21/11	3:26	29.62	3/21/11	7:51	29.66
3/20/11	14:16	29.42	3/20/11	18:41	29.44	3/20/11	23:06	29.56	3/21/11	3:31	29.62	3/21/11	7:56	29.66
3/20/11	14:21	29.42	3/20/11	18:46	29.44	3/20/11	23:11	29.56	3/21/11	3:36	29.62	3/21/11	8:01	29.67
3/20/11	14:26	29.42	3/20/11	18:51	29.44	3/20/11	23:16	29.56	3/21/11	3:41	29.62	3/21/11	8:06	29.67
3/20/11	14:31	29.42	3/20/11	18:56	29.44	3/20/11	23:21	29.57	3/21/11	3:46	29.62	3/21/11	8:11	29.67
3/20/11	14:36	29.42	3/20/11	19:01	29.44	3/20/11	23:26	29.57	3/21/11	3:51	29.62	3/21/11	8:16	29.67
3/20/11	14:41	29.42	3/20/11	19:06	29.44	3/20/11	23:31	29.57	3/21/11	3:56	29.62	3/21/11	8:21	29.67
3/20/11	14:46	29.42	3/20/11	19:11	29.46	3/20/11	23:36	29.57	3/21/11	4:01	29.61	3/21/11	8:26	29.67
3/20/11	14:51	29.42	3/20/11	19:16	29.46	3/20/11	23:41	29.57	3/21/11	4:06	29.61	3/21/11	8:31	29.67
3/20/11	14:56	29.44	3/20/11	19:21	29.46	3/20/11	23:46	29.59	3/21/11	4:11	29.61	3/21/11	8:36	29.67
3/20/11	15:01	29.43	3/20/11	19:26	29.46	3/20/11	23:51	29.57	3/21/11	4:16	29.62	3/21/11	8:41	29.67
3/20/11	15:06	29.43	3/20/11	19:31	29.46	3/20/11	23:56	29.59	3/21/11	4:21	29.62	3/21/11	8:46	29.67
3/20/11	15:11	29.43	3/20/11	19:36	29.46	3/21/11	0:01	29.59	3/21/11	4:26	29.61	3/21/11	8:51	29.67
3/20/11	15:16	29.43	3/20/11	19:41	29.46	3/21/11	0:06	29.59	3/21/11	4:31	29.61	3/21/11	8:56	29.67
3/20/11	15:21	29.43	3/20/11	19:46	29.46	3/21/11	0:11	29.59	3/21/11	4:36	29.62	3/21/11	9:01	29.69
3/20/11	15:26	29.44	3/20/11	19:51	29.46	3/21/11	0:16	29.59	3/21/11	4:41	29.61	3/21/11	9:06	29.69
3/20/11	15:31	29.43	3/20/11	19:56	29.46	3/21/11	0:21	29.59	3/21/11	4:46	29.61	3/21/11	9:11	29.71
3/20/11	15:36	29.44	3/20/11	20:01	29.46	3/21/11	0:26	29.61	3/21/11	4:51	29.61	3/21/11	9:16	29.71
3/20/11	15:41	29.44	3/20/11	20:06	29.46	3/21/11	0:31	29.61	3/21/11	4:56	29.61	3/21/11	9:21	29.71
3/20/11	15:46	29.44	3/20/11	20:11	29.46	3/21/11	0:36	29.61	3/21/11	5:01	29.62	3/21/11	9:26	29.71
3/20/11	15:51	29.44	3/20/11	20:16	29.46	3/21/11	0:41	29.61	3/21/11	5:06	29.62	3/21/11	9:31	29.71
3/20/11	15:56	29.44	3/20/11	20:21	29.47	3/21/11	0:46	29.61	3/21/11	5:11	29.62	3/21/11	9:36	29.71
3/20/11	16:01	29.42	3/20/11	20:26	29.47	3/21/11	0:51	29.61	3/21/11	5:16	29.62	3/21/11	9:41	29.71
3/20/11	16:06	29.42	3/20/11	20:31	29.47	3/21/11	0:56	29.61	3/21/11	5:21	29.62	3/21/11	9:46	29.71

TABLE A.1-6. TRANSDUCER DATA FOR OBSERVATION WELL 1011, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/21/11	9:51	29.71	3/21/11	14:16	29.79	3/21/11	18:41	29.61	3/21/11	23:06	29.46	3/22/11	3:31	29.29
3/21/11	9:56	29.72	3/21/11	14:21	29.79	3/21/11	18:46	29.61	3/21/11	23:11	29.44	3/22/11	3:36	29.28
3/21/11	10:01	29.74	3/21/11	14:26	29.79	3/21/11	18:51	29.59	3/21/11	23:16	29.44	3/22/11	3:41	29.28
3/21/11	10:06	29.74	3/21/11	14:31	29.79	3/21/11	18:56	29.59	3/21/11	23:21	29.44	3/22/11	3:46	29.28
3/21/11	10:11	29.74	3/21/11	14:36	29.79	3/21/11	19:01	29.61	3/21/11	23:26	29.44	3/22/11	3:51	29.26
3/21/11	10:16	29.74	3/21/11	14:41	29.79	3/21/11	19:06	29.59	3/21/11	23:31	29.44	3/22/11	3:56	29.26
3/21/11	10:21	29.74	3/21/11	14:46	29.79	3/21/11	19:11	29.59	3/21/11	23:36	29.44	3/22/11	4:01	29.26
3/21/11	10:26	29.74	3/21/11	14:51	29.79	3/21/11	19:16	29.57	3/21/11	23:41	29.44	3/22/11	4:06	29.26
3/21/11	10:31	29.74	3/21/11	14:56	29.79	3/21/11	19:21	29.57	3/21/11	23:46	29.44	3/22/11	4:11	29.26
3/21/11	10:36	29.76	3/21/11	15:01	29.76	3/21/11	19:26	29.57	3/21/11	23:51	29.44	3/22/11	4:16	29.26
3/21/11	10:41	29.76	3/21/11	15:06	29.76	3/21/11	19:31	29.57	3/21/11	23:56	29.42	3/22/11	4:21	29.26
3/21/11	10:46	29.76	3/21/11	15:11	29.77	3/21/11	19:36	29.56	3/22/11	0:01	29.41	3/22/11	4:26	29.24
3/21/11	10:51	29.76	3/21/11	15:16	29.77	3/21/11	19:41	29.56	3/22/11	0:06	29.41	3/22/11	4:31	29.24
3/21/11	10:56	29.76	3/21/11	15:21	29.77	3/21/11	19:46	29.54	3/22/11	0:11	29.41	3/22/11	4:36	29.24
3/21/11	11:01	29.74	3/21/11	15:26	29.77	3/21/11	19:51	29.54	3/22/11	0:16	29.41	3/22/11	4:41	29.24
3/21/11	11:06	29.74	3/21/11	15:31	29.77	3/21/11	19:56	29.54	3/22/11	0:21	29.39	3/22/11	4:46	29.23
3/21/11	11:11	29.76	3/21/11	15:36	29.77	3/21/11	20:01	29.56	3/22/11	0:26	29.39	3/22/11	4:51	29.23
3/21/11	11:16	29.76	3/21/11	15:41	29.77	3/21/11	20:06	29.56	3/22/11	0:31	29.39	3/22/11	4:56	29.23
3/21/11	11:21	29.76	3/21/11	15:46	29.79	3/21/11	20:11	29.56	3/22/11	0:36	29.39	3/22/11	5:01	29.24
3/21/11	11:26	29.76	3/21/11	15:51	29.79	3/21/11	20:16	29.54	3/22/11	0:41	29.39	3/22/11	5:06	29.23
3/21/11	11:31	29.76	3/21/11	15:56	29.79	3/21/11	20:21	29.54	3/22/11	0:46	29.39	3/22/11	5:11	29.23
3/21/11	11:36	29.76	3/21/11	16:01	29.76	3/21/11	20:26	29.54	3/22/11	0:51	29.39	3/22/11	5:16	29.23
3/21/11	11:41	29.77	3/21/11	16:06	29.76	3/21/11	20:31	29.54	3/22/11	0:56	29.39	3/22/11	5:21	29.23
3/21/11	11:46	29.77	3/21/11	16:11	29.76	3/21/11	20:36	29.52	3/22/11	1:01	29.39	3/22/11	5:26	29.21
3/21/11	11:51	29.77	3/21/11	16:16	29.76	3/21/11	20:41	29.52	3/22/11	1:06	29.38	3/22/11	5:31	29.21
3/21/11	11:56	29.77	3/21/11	16:21	29.76	3/21/11	20:46	29.52	3/22/11	1:11	29.38	3/22/11	5:36	29.21
3/21/11	12:01	29.76	3/21/11	16:26	29.76	3/21/11	20:51	29.51	3/22/11	1:16	29.38	3/22/11	5:41	29.21
3/21/11	12:06	29.76	3/21/11	16:31	29.76	3/21/11	20:56	29.51	3/22/11	1:21	29.38	3/22/11	5:46	29.19
3/21/11	12:11	29.76	3/21/11	16:36	29.76	3/21/11	21:01	29.52	3/22/11	1:26	29.38	3/22/11	5:51	29.19
3/21/11	12:16	29.76	3/21/11	16:41	29.76	3/21/11	21:06	29.52	3/22/11	1:31	29.38	3/22/11	5:56	29.19
3/21/11	12:21	29.77	3/21/11	16:46	29.76	3/21/11	21:11	29.52	3/22/11	1:36	29.38	3/22/11	6:01	29.21
3/21/11	12:26	29.77	3/21/11	16:51	29.76	3/21/11	21:16	29.51	3/22/11	1:41	29.36	3/22/11	6:06	29.21
3/21/11	12:31	29.77	3/21/11	16:56	29.74	3/21/11	21:21	29.51	3/22/11	1:46	29.36	3/22/11	6:11	29.19
3/21/11	12:36	29.77	3/21/11	17:01	29.72	3/21/11	21:26	29.49	3/22/11	1:51	29.36	3/22/11	6:16	29.19
3/21/11	12:41	29.77	3/21/11	17:06	29.72	3/21/11	21:31	29.49	3/22/11	1:56	29.36	3/22/11	6:21	29.19
3/21/11	12:46	29.77	3/21/11	17:11	29.71	3/21/11	21:36	29.49	3/22/11	2:01	29.34	3/22/11	6:26	29.19
3/21/11	12:51	29.79	3/21/11	17:16	29.71	3/21/11	21:41	29.49	3/22/11	2:06	29.33	3/22/11	6:31	29.19
3/21/11	12:56	29.79	3/21/11	17:21	29.71	3/21/11	21:46	29.49	3/22/11	2:11	29.33	3/22/11	6:36	29.19
3/21/11	13:01	29.77	3/21/11	17:26	29.71	3/21/11	21:51	29.47	3/22/11	2:16	29.33	3/22/11	6:41	29.18
3/21/11	13:06	29.77	3/21/11	17:31	29.69	3/21/11	21:56	29.47	3/22/11	2:21	29.33	3/22/11	6:46	29.18
3/21/11	13:11	29.77	3/21/11	17:36	29.69	3/21/11	22:01	29.49	3/22/11	2:26	29.33	3/22/11	6:51	29.18
3/21/11	13:16	29.77	3/21/11	17:41	29.69	3/21/11	22:06	29.49	3/22/11	2:31	29.33	3/22/11	6:56	29.16
3/21/11	13:21	29.77	3/21/11	17:46	29.69	3/21/11	22:11	29.49	3/22/11	2:36	29.31	3/22/11	7:01	29.19
3/21/11	13:26	29.77	3/21/11	17:51	29.67	3/21/11	22:16	29.49	3/22/11	2:41	29.31	3/22/11	7:06	29.19
3/21/11	13:31	29.79	3/21/11	17:56	29.67	3/21/11	22:21	29.49	3/22/11	2:46	29.31	3/22/11	7:11	29.19
3/21/11	13:36	29.79	3/21/11	18:01	29.66	3/21/11	22:26	29.49	3/22/11	2:51	29.31	3/22/11	7:16	29.18
3/21/11	13:41	29.79	3/21/11	18:06	29.64	3/21/11	22:31	29.49	3/22/11	2:56	29.29	3/22/11	7:21	29.18
3/21/11	13:46	29.79	3/21/11	18:11	29.64	3/21/11	22:36	29.48	3/22/11	3:01	29.29	3/22/11	7:26	29.18
3/21/11	13:51	29.79	3/21/11	18:16	29.64	3/21/11	22:41	29.48	3/22/11	3:06	29.29	3/22/11	7:31	29.18
3/21/11	13:56	29.79	3/21/11	18:21	29.62	3/21/11	22:46	29.48	3/22/11	3:11	29.29	3/22/11	7:36	29.18
3/21/11	14:01	29.77	3/21/11	18:26	29.62	3/21/11	22:51	29.48	3/22/11	3:16	29.29	3/22/11	7:41	29.18
3/21/11	14:06	29.79	3/21/11	18:31	29.61	3/21/11	22:56	29.48	3/22/11	3:21	29.29	3/22/11	7:46	29.16
3/21/11	14:11	29.79	3/21/11	18:36	29.61	3/21/11	23:01	29.46	3/22/11	3:26	29.29	3/22/11	7:51	29.16

TABLE A.1-6. TRANSDUCER DATA FOR OBSERVATION WELL 1011, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/22/11	7:56	29.16	3/22/11	12:21	29.11	3/22/11	16:46	28.99	3/22/11	21:11	29.04	3/23/11	1:36	29.08
3/22/11	8:01	29.18	3/22/11	12:26	29.11	3/22/11	16:51	28.99	3/22/11	21:16	29.04	3/23/11	1:41	29.08
3/22/11	8:06	29.18	3/22/11	12:31	29.11	3/22/11	16:56	28.99	3/22/11	21:21	29.04	3/23/11	1:46	29.08
3/22/11	8:11	29.18	3/22/11	12:36	29.11	3/22/11	17:01	28.99	3/22/11	21:26	29.04	3/23/11	1:51	29.08
3/22/11	8:16	29.18	3/22/11	12:41	29.11	3/22/11	17:06	28.99	3/22/11	21:31	29.04	3/23/11	1:56	29.08
3/22/11	8:21	29.18	3/22/11	12:46	29.13	3/22/11	17:11	28.98	3/22/11	21:36	29.04	3/23/11	2:01	29.09
3/22/11	8:26	29.16	3/22/11	12:51	29.13	3/22/11	17:16	28.98	3/22/11	21:41	29.04	3/23/11	2:06	29.09
3/22/11	8:31	29.16	3/22/11	12:56	29.13	3/22/11	17:21	28.98	3/22/11	21:46	29.04	3/23/11	2:11	29.09
3/22/11	8:36	29.16	3/22/11	13:01	29.09	3/22/11	17:26	28.98	3/22/11	21:51	29.04	3/23/11	2:16	29.08
3/22/11	8:41	29.16	3/22/11	13:06	29.09	3/22/11	17:31	28.98	3/22/11	21:56	29.04	3/23/11	2:21	29.09
3/22/11	8:46	29.16	3/22/11	13:11	29.09	3/22/11	17:36	28.98	3/22/11	22:01	29.06	3/23/11	2:26	29.09
3/22/11	8:51	29.16	3/22/11	13:16	29.09	3/22/11	17:41	29.08	3/22/11	22:06	29.08	3/23/11	2:31	29.08
3/22/11	8:56	29.16	3/22/11	13:21	29.09	3/22/11	17:46	29.06	3/22/11	22:11	29.08	3/23/11	2:36	29.08
3/22/11	9:01	29.18	3/22/11	13:26	29.09	3/22/11	17:51	29.06	3/22/11	22:16	29.06	3/23/11	2:41	29.08
3/22/11	9:06	29.18	3/22/11	13:31	29.09	3/22/11	17:56	29.06	3/22/11	22:21	29.08	3/23/11	2:46	29.08
3/22/11	9:11	29.18	3/22/11	13:36	29.09	3/22/11	18:01	29.06	3/22/11	22:26	29.08	3/23/11	2:51	29.08
3/22/11	9:16	29.16	3/22/11	13:41	29.09	3/22/11	18:06	29.06	3/22/11	22:31	29.06	3/23/11	2:56	29.08
3/22/11	9:21	29.18	3/22/11	13:46	29.09	3/22/11	18:11	29.06	3/22/11	22:36	29.06	3/23/11	3:01	29.08
3/22/11	9:26	29.16	3/22/11	13:51	29.09	3/22/11	18:16	29.06	3/22/11	22:41	29.06	3/23/11	3:06	29.08
3/22/11	9:31	29.16	3/22/11	13:56	29.09	3/22/11	18:21	29.06	3/22/11	22:46	29.08	3/23/11	3:11	29.08
3/22/11	9:36	29.16	3/22/11	14:01	29.06	3/22/11	18:26	29.06	3/22/11	22:51	29.08	3/23/11	3:16	29.08
3/22/11	9:41	29.18	3/22/11	14:06	29.06	3/22/11	18:31	29.04	3/22/11	22:56	29.08	3/23/11	3:21	29.08
3/22/11	9:46	29.16	3/22/11	14:11	29.06	3/22/11	18:36	29.04	3/22/11	23:01	29.06	3/23/11	3:26	29.08
3/22/11	9:51	29.16	3/22/11	14:16	29.06	3/22/11	18:41	29.04	3/22/11	23:06	29.08	3/23/11	3:31	29.09
3/22/11	9:56	29.16	3/22/11	14:21	29.06	3/22/11	18:46	29.04	3/22/11	23:11	29.08	3/23/11	3:36	29.08
3/22/11	10:01	29.14	3/22/11	14:26	29.06	3/22/11	18:51	29.03	3/22/11	23:16	29.08	3/23/11	3:41	29.09
3/22/11	10:06	29.14	3/22/11	14:31	29.06	3/22/11	18:56	29.04	3/22/11	23:21	29.08	3/23/11	3:46	29.08
3/22/11	10:11	29.14	3/22/11	14:36	29.06	3/22/11	19:01	29.04	3/22/11	23:26	29.06	3/23/11	3:51	29.08
3/22/11	10:16	29.14	3/22/11	14:41	29.06	3/22/11	19:06	29.04	3/22/11	23:31	29.08	3/23/11	3:56	29.09
3/22/11	10:21	29.14	3/22/11	14:46	29.06	3/22/11	19:11	29.06	3/22/11	23:36	29.08	3/23/11	4:01	29.06
3/22/11	10:26	29.14	3/22/11	14:51	29.06	3/22/11	19:16	29.04	3/22/11	23:41	29.08	3/23/11	4:06	29.06
3/22/11	10:31	29.14	3/22/11	14:56	29.06	3/22/11	19:21	29.04	3/22/11	23:46	29.08	3/23/11	4:11	29.06
3/22/11	10:36	29.14	3/22/11	15:01	29.04	3/22/11	19:26	29.04	3/22/11	23:51	29.08	3/23/11	4:16	29.06
3/22/11	10:41	29.14	3/22/11	15:06	29.04	3/22/11	19:31	29.04	3/22/11	23:56	29.08	3/23/11	4:21	29.06
3/22/11	10:46	29.14	3/22/11	15:11	29.04	3/22/11	19:36	29.04	3/23/11	0:01	29.08	3/23/11	4:26	29.06
3/22/11	10:51	29.14	3/22/11	15:16	29.04	3/22/11	19:41	29.04	3/23/11	0:06	29.08	3/23/11	4:31	29.06
3/22/11	10:56	29.14	3/22/11	15:21	29.04	3/22/11	19:46	29.04	3/23/11	0:11	29.08	3/23/11	4:36	29.06
3/22/11	11:01	29.13	3/22/11	15:26	29.04	3/22/11	19:51	29.04	3/23/11	0:16	29.08	3/23/11	4:41	29.06
3/22/11	11:06	29.13	3/22/11	15:31	29.04	3/22/11	19:56	29.04	3/23/11	0:21	29.08	3/23/11	4:46	29.06
3/22/11	11:11	29.13	3/22/11	15:36	29.04	3/22/11	20:01	29.04	3/23/11	0:26	29.08	3/23/11	4:51	29.06
3/22/11	11:16	29.13	3/22/11	15:41	29.04	3/22/11	20:06	29.04	3/23/11	0:31	29.08	3/23/11	4:56	29.06
3/22/11	11:21	29.13	3/22/11	15:46	29.04	3/22/11	20:11	29.04	3/23/11	0:36	29.08	3/23/11	5:01	29.04
3/22/11	11:26	29.13	3/22/11	15:51	29.04	3/22/11	20:16	29.04	3/23/11	0:41	29.08	3/23/11	5:06	29.04
3/22/11	11:31	29.13	3/22/11	15:56	29.04	3/22/11	20:21	29.04	3/23/11	0:46	29.08	3/23/11	5:11	29.04
3/22/11	11:36	29.13	3/22/11	16:01	28.99	3/22/11	20:26	29.04	3/23/11	0:51	29.08	3/23/11	5:16	29.04
3/22/11	11:41	29.13	3/22/11	16:06	28.99	3/22/11	20:31	29.04	3/23/11	0:56	29.08	3/23/11	5:21	29.04
3/22/11	11:46	29.13	3/22/11	16:11	28.99	3/22/11	20:36	29.04	3/23/11	1:01	29.08	3/23/11	5:26	29.04
3/22/11	11:51	29.13	3/22/11	16:16	28.99	3/22/11	20:41	29.04	3/23/11	1:06	29.08	3/23/11	5:31	29.04
3/22/11	11:56	29.13	3/22/11	16:21	28.99	3/22/11	20:46	29.04	3/23/11	1:11	29.08	3/23/11	5:36	29.04
3/22/11	12:01	29.11	3/22/11	16:26	28.99	3/22/11	20:51	29.03	3/23/11	1:16	29.08	3/23/11	5:41	29.04
3/22/11	12:06	29.11	3/22/11	16:31	28.99	3/22/11	20:56	29.03	3/23/11	1:21	29.08	3/23/11	5:46	29.04
3/22/11	12:11	29.11	3/22/11	16:36	28.99	3/22/11	21:01	29.04	3/23/11	1:26	29.08	3/23/11	5:51	29.04
3/22/11	12:16	29.11	3/22/11	16:41	28.99	3/22/11	21:06	29.04	3/23/11	1:31	29.08	3/23/11	5:56	29.03

TABLE A.1-6. TRANSDUCER DATA FOR OBSERVATION WELL 1011, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/23/11	6:01	29.06	3/23/11	10:26	29.01	3/23/11	14:51	29.03	3/23/11	19:16	28.98	3/23/11	23:41	28.91
3/23/11	6:06	29.04	3/23/11	10:31	29.01	3/23/11	14:56	29.03	3/23/11	19:21	28.98	3/23/11	23:46	28.91
3/23/11	6:11	29.04	3/23/11	10:36	29.03	3/23/11	15:01	28.99	3/23/11	19:26	28.85	3/23/11	23:51	28.91
3/23/11	6:16	29.04	3/23/11	10:41	29.03	3/23/11	15:06	28.91	3/23/11	19:31	28.85	3/23/11	23:56	28.91
3/23/11	6:21	29.04	3/23/11	10:46	29.03	3/23/11	15:11	28.90	3/23/11	19:36	28.85	3/24/11	0:01	28.91
3/23/11	6:26	29.04	3/23/11	10:51	29.03	3/23/11	15:16	28.90	3/23/11	19:41	28.85	3/24/11	0:06	28.91
3/23/11	6:31	29.04	3/23/11	10:56	29.03	3/23/11	15:21	28.90	3/23/11	19:46	28.85	3/24/11	0:11	28.91
3/23/11	6:36	29.04	3/23/11	11:01	29.03	3/23/11	15:26	28.90	3/23/11	19:51	28.85	3/24/11	0:16	28.91
3/23/11	6:41	29.04	3/23/11	11:06	29.03	3/23/11	15:31	28.90	3/23/11	19:56	28.85	3/24/11	0:21	28.91
3/23/11	6:46	29.04	3/23/11	11:11	29.03	3/23/11	15:36	28.90	3/23/11	20:01	28.86	3/24/11	0:26	28.91
3/23/11	6:51	29.03	3/23/11	11:16	29.03	3/23/11	15:41	28.90	3/23/11	20:06	28.86	3/24/11	0:31	28.91
3/23/11	6:56	29.03	3/23/11	11:21	29.03	3/23/11	15:46	28.90	3/23/11	20:11	28.86	3/24/11	0:36	28.91
3/23/11	7:01	29.03	3/23/11	11:26	29.03	3/23/11	15:51	28.90	3/23/11	20:16	28.86	3/24/11	0:41	28.91
3/23/11	7:06	29.03	3/23/11	11:31	29.03	3/23/11	15:56	28.90	3/23/11	20:21	28.86	3/24/11	0:46	28.91
3/23/11	7:11	29.03	3/23/11	11:36	29.03	3/23/11	16:01	29.03	3/23/11	20:26	28.86	3/24/11	0:51	28.91
3/23/11	7:16	29.03	3/23/11	11:41	29.03	3/23/11	16:06	29.03	3/23/11	20:31	28.86	3/24/11	0:56	28.91
3/23/11	7:21	29.03	3/23/11	11:46	29.03	3/23/11	16:11	29.03	3/23/11	20:36	28.85	3/24/11	1:01	28.91
3/23/11	7:26	29.03	3/23/11	11:51	29.03	3/23/11	16:16	29.03	3/23/11	20:41	28.85	3/24/11	1:06	28.91
3/23/11	7:31	29.03	3/23/11	11:56	29.03	3/23/11	16:21	29.03	3/23/11	20:46	28.85	3/24/11	1:11	28.91
3/23/11	7:36	29.03	3/23/11	12:01	29.03	3/23/11	16:26	29.03	3/23/11	20:51	28.85	3/24/11	1:16	28.91
3/23/11	7:41	29.01	3/23/11	12:06	29.03	3/23/11	16:31	29.01	3/23/11	20:56	28.85	3/24/11	1:21	28.91
3/23/11	7:46	29.01	3/23/11	12:11	29.03	3/23/11	16:36	29.03	3/23/11	21:01	28.86	3/24/11	1:26	28.93
3/23/11	7:51	29.01	3/23/11	12:16	29.03	3/23/11	16:41	29.03	3/23/11	21:06	28.86	3/24/11	1:31	28.93
3/23/11	7:56	29.01	3/23/11	12:21	29.03	3/23/11	16:46	29.01	3/23/11	21:11	28.86	3/24/11	1:36	28.93
3/23/11	8:01	29.03	3/23/11	12:26	29.03	3/23/11	16:51	29.01	3/23/11	21:16	28.86	3/24/11	1:41	28.93
3/23/11	8:06	29.03	3/23/11	12:31	29.03	3/23/11	16:56	29.01	3/23/11	21:21	28.86	3/24/11	1:46	28.93
3/23/11	8:11	29.03	3/23/11	12:36	29.03	3/23/11	17:01	29.03	3/23/11	21:26	28.86	3/24/11	1:51	28.93
3/23/11	8:16	29.03	3/23/11	12:41	29.03	3/23/11	17:06	29.01	3/23/11	21:31	28.86	3/24/11	1:56	28.93
3/23/11	8:21	29.03	3/23/11	12:46	29.04	3/23/11	17:11	29.03	3/23/11	21:36	28.86	3/24/11	2:01	28.91
3/23/11	8:26	29.03	3/23/11	12:51	29.04	3/23/11	17:16	29.01	3/23/11	21:41	28.86	3/24/11	2:06	28.89
3/23/11	8:31	29.03	3/23/11	12:56	29.03	3/23/11	17:21	29.01	3/23/11	21:46	28.85	3/24/11	2:11	28.91
3/23/11	8:36	29.03	3/23/11	13:01	29.03	3/23/11	17:26	29.01	3/23/11	21:51	28.86	3/24/11	2:16	28.91
3/23/11	8:41	29.03	3/23/11	13:06	29.03	3/23/11	17:31	29.01	3/23/11	21:56	28.86	3/24/11	2:21	28.91
3/23/11	8:46	29.03	3/23/11	13:11	29.03	3/23/11	17:36	29.01	3/23/11	22:01	28.88	3/24/11	2:26	28.91
3/23/11	8:51	29.03	3/23/11	13:16	29.03	3/23/11	17:41	29.01	3/23/11	22:06	28.88	3/24/11	2:31	28.91
3/23/11	8:56	29.03	3/23/11	13:21	29.03	3/23/11	17:46	29.01	3/23/11	22:11	28.88	3/24/11	2:36	28.91
3/23/11	9:01	29.03	3/23/11	13:26	29.03	3/23/11	17:51	29.01	3/23/11	22:16	28.88	3/24/11	2:41	28.91
3/23/11	9:06	29.03	3/23/11	13:31	29.03	3/23/11	17:56	29.01	3/23/11	22:21	28.88	3/24/11	2:46	28.91
3/23/11	9:11	29.03	3/23/11	13:36	29.03	3/23/11	18:01	29.01	3/23/11	22:26	28.88	3/24/11	2:51	28.91
3/23/11	9:16	29.03	3/23/11	13:41	29.03	3/23/11	18:06	29.01	3/23/11	22:31	28.88	3/24/11	2:56	28.91
3/23/11	9:21	29.03	3/23/11	13:46	29.03	3/23/11	18:11	29.01	3/23/11	22:36	28.88	3/24/11	3:01	28.91
3/23/11	9:26	29.03	3/23/11	13:51	29.03	3/23/11	18:16	29.14	3/23/11	22:41	28.88	3/24/11	3:06	28.91
3/23/11	9:31	29.03	3/23/11	13:56	29.03	3/23/11	18:21	29.14	3/23/11	22:46	28.88	3/24/11	3:11	28.91
3/23/11	9:36	29.03	3/23/11	14:01	29.01	3/23/11	18:26	29.14	3/23/11	22:51	28.88	3/24/11	3:16	28.91
3/23/11	9:41	29.01	3/23/11	14:06	29.01	3/23/11	18:31	29.14	3/23/11	22:56	28.88	3/24/11	3:21	28.91
3/23/11	9:46	29.03	3/23/11	14:11	29.03	3/23/11	18:36	29.14	3/23/11	23:01	28.90	3/24/11	3:26	28.91
3/23/11	9:51	29.03	3/23/11	14:16	29.03	3/23/11	18:41	29.14	3/23/11	23:06	28.90	3/24/11	3:31	28.91
3/23/11	9:56	29.03	3/23/11	14:21	29.03	3/23/11	18:46	29.14	3/23/11	23:11	28.90	3/24/11	3:36	28.91
3/23/11	10:01	29.01	3/23/11	14:26	29.03	3/23/11	18:51	29.14	3/23/11	23:16	28.90	3/24/11	3:41	28.91
3/23/11	10:06	29.01	3/23/11	14:31	29.03	3/23/11	18:56	29.14	3/23/11	23:21	28.90	3/24/11	3:46	28.91
3/23/11	10:11	29.03	3/23/11	14:36	29.03	3/23/11	19:01	29.14	3/23/11	23:26	28.91	3/24/11	3:51	28.91
3/23/11	10:16	29.03	3/23/11	14:41	29.03	3/23/11	19:06	29.14	3/23/11	23:31	28.91	3/24/11	3:56	28.91
3/23/11	10:21	29.03	3/23/11	14:46	29.03	3/23/11	19:11	29.01	3/23/11	23:36	28.91	3/24/11	4:01	28.91

TABLE A.1-6. TRANSDUCER DATA FOR OBSERVATION WELL 1011, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
3/24/11	4:06	28.91	3/24/11	8:31	28.89									
3/24/11	4:11	28.91	3/24/11	8:36	28.89									
3/24/11	4:16	28.91	3/24/11	8:41	28.89									
3/24/11	4:21	28.91	3/24/11	8:46	28.89									
3/24/11	4:26	28.91	3/24/11	8:51	28.89									
3/24/11	4:31	28.91	3/24/11	8:56	28.89									
3/24/11	4:36	28.91	3/24/11	9:01	28.91									
3/24/11	4:41	28.91	3/24/11	9:06	28.91									
3/24/11	4:46	28.91	3/24/11	9:11	28.91									
3/24/11	4:51	28.91	3/24/11	9:16	28.91									
3/24/11	4:56	28.91	3/24/11	9:21	28.89									
3/24/11	5:01	28.91	3/24/11	9:26	28.91									
3/24/11	5:06	28.91	3/24/11	9:31	28.89									
3/24/11	5:11	28.91	3/24/11	9:36	28.89									
3/24/11	5:16	28.91	3/24/11	9:41	28.89									
3/24/11	5:21	28.91	3/24/11	9:46	28.89									
3/24/11	5:26	28.91	3/24/11	9:51	28.89									
3/24/11	5:31	28.91	3/24/11	9:56	28.89									
3/24/11	5:36	28.89	3/24/11	10:01	28.91									
3/24/11	5:41	28.89	3/24/11	10:06	28.91									
3/24/11	5:46	28.91	3/24/11	10:11	28.91									
3/24/11	5:51	28.89	3/24/11	10:16	28.91									
3/24/11	5:56	28.89	3/24/11	10:21	28.91									
3/24/11	6:01	28.89	3/24/11	10:26	28.91									
3/24/11	6:06	28.89	3/24/11	10:31	28.91									
3/24/11	6:11	28.89	3/24/11	10:36	28.91									
3/24/11	6:16	28.89	3/24/11	10:41	28.91									
3/24/11	6:21	28.89	3/24/11	10:46	28.91									
3/24/11	6:26	28.89	3/24/11	10:51	28.91									
3/24/11	6:31	28.89	3/24/11	10:56	28.91									
3/24/11	6:36	28.89	3/24/11	11:01	28.91									
3/24/11	6:41	28.89												
3/24/11	6:46	28.88												
3/24/11	6:51	28.88												
3/24/11	6:56	28.88												
3/24/11	7:01	28.90												
3/24/11	7:06	28.90												
3/24/11	7:11	28.90												
3/24/11	7:16	28.90												
3/24/11	7:21	28.90												
3/24/11	7:26	28.90												
3/24/11	7:31	28.88												
3/24/11	7:36	28.88												
3/24/11	7:41	28.88												
3/24/11	7:46	28.88												
3/24/11	7:51	28.88												
3/24/11	7:56	28.88												
3/24/11	8:01	28.91												
3/24/11	8:06	28.91												
3/24/11	8:11	28.89												
3/24/11	8:16	28.89												
3/24/11	8:21	28.89												
3/24/11	8:26	28.89												

TABLE A.2-1. MANUAL DATA FOR PUMPING WELL 371T132

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	FLOW (gpm)	COMMENT
3/18/2011	16:51	-1449			19.43	0		
3/19/2011	8:08	-532			22.24	2.81		
	11:39	-321			22.23	2.8		
	11:41	-319						DL Transducer, reset to 1 min
	12:26	-274						Pump On and Off
	12:46	-254						Pump Off, assume pumped < 5 gal
	12:48	-252			22.28	2.85		
	14:07	-173						Pump On
	14:09	-171			45.56	26.13		
	14:10	-170			52.91	33.48		
	14:12	-168			55.45	36.02		
	14:13	-167			56.35	36.92		
	14:14	-166			58.06	38.63		
	14:15	-165			60.02	40.59		
	14:16	-164			61.15	41.72		
	14:18	-162			63.46	44.03		
	14:19	-161			64.55	45.12		
	14:21	-159			66.16	46.73		
	14:22	-158			67.08	47.65		
	14:23	-157			67.69	48.26		
	14:24	-156			68.3	48.87		
	14:25	-154.5			69.17	49.74		
	14:26	-154			68.3	48.87		
	14:27	-153			69.17	49.74		
	14:29	-151			71.12	51.69		
	14:32	-148			72.65	53.22		
	14:34	-146			73.26	53.83		
	14:37	-142.5			75.64	56.21	5.8	
	14:37	-142.5						Capacitor blows
	14:39	-141			78.4	58.97		
	14:40	-140			79.28	59.85		
	14:42	-138			75.52	56.09		
	14:44	-136			77.8	58.37		
	14:50	-130						Pump Off
	16:55	-5			17.8	-1.63		
	16:55	-5						Totalizer Reading 58195
	17:00	0						Pump On
	17:01	0.99999999			28.5	9.07		
	17:02	2			37.75	18.32		
	17:03	3.5			46.26	26.83	9.9	
	17:04	3.99999999			48.57	29.14		
	17:05	5			52.73	33.3	9.6	
	17:06	6			56.24	36.81		
	17:07	6.99999999			58.98	39.55		
	17:08	7.99999999			62.66	43.23		
	17:09	9			65.07	45.64	9	
	17:10	10			66.8	47.37		
	17:11	11			68.59	49.16	8.8	
	17:12	12			71.08	51.65		
	17:13	13			72.64	53.21		
	17:14	14			74.46	55.03	8.6	
	17:15	15			76.49	57.06		
	17:17	17			78.98	59.55		
	17:20	20			79.3	59.87	8.5	
	17:22	22			84.59	65.16		
	17:24	24			85.98	66.55		
	17:26	26			87.3	67.87		
	17:28	28			88.32	68.89	8.4	
	17:34	34			90.75	71.32	8.5	
	17:40	40			94.62	75.19	9	
	17:45	45			96.22	76.79		
	17:55	55			98.79	79.36		
	18:00	60			99.83	80.4	8.7	
	18:10	70			101.04	81.61	8.9	
	18:32	92			102.87	83.44		
	18:49	109			103.65	84.22	9	
	19:10	130			104.93	85.5		
	19:20	140						Flow Slowed
	19:25	145			104.24	84.81	9	
	19:38	158			106.42	86.99		
	20:12	192			108.55	89.12	9.1	
	20:44	224			110.19	90.76	9.2	
	21:00	240			111.03	91.6	9.1	

TABLE A.2-1. MANUAL DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	FLOW (gpm)	COMMENT
3/19/2011	21:00	240						Valve closed
	21:20	260			109.68	90.25		
	21:30	270			109.82	90.39		
	21:50	290			109.87	90.44	9	
	22:07	307			109.64	90.21	9.1	
3/20/2011	0:43	463			111.22	91.79		
	0:43	463						Totalizer 62370
	1:30	510			111.7	92.27		
	1:30	510						Pump has slid down close to 1.65 ft
	1:37	517						Totalizer 62855
	5:09	729			111.68	92.25	8.94	
	5:09	729						Totalizer 64770
	5:45	765					8.88	
	5:55	775					9	
	5:55	775						Valve opened
	6:00	780			111.57	92.14		
	6:20	800						Pump off for 2 min, then back on
	6:24	804			104.97	85.54	8.57	
	6:30	810						Totalizer 65480
	6:35	815			109.17	89.74		
	6:40	820					9	
	6:50	830			112.13	92.7		
	7:05	845					8.98	
	7:05	845						Valve opened
	7:17	857						Adjusted Transducer
	7:18	858			111.64	92.21		
	7:22	862			111.96	92.53		
	7:22	862						Done adjusting
	7:35	875					9.1	
	7:45	885					9	
	8:06	906					8.9	
	8:09	909			112.47	93.04		
	8:26	926					9.1	
	8:26	926						Valve opened
	8:53	953			112.72	93.29	9	
	9:16	976					9.1	
	9:16	976						Valve opened
	9:27	987					9	
	9:56	1016			113.8	94.37		
	10:33	1053			112.88	93.45	8.8	
	10:33	1053						Totalizer 67668
	10:36	1056					9	
	10:36	1056						Valve opened
	11:13	1093			113.11	93.68		
	11:52	1132			113.22	93.79		
	12:38	1178			113.37	93.94	8.9	
	13:10	1210					9.1	
	13:10	1210						Valve opened
	14:05	1265			113.71	94.28	9	
	14:05	1265						Valve opened
	14:43	1303			113.6	94.17		
	15:33	1353			113.63	94.2	9.1	
	15:33	1353						Valve Opened
	16:28	1408			114.19	94.76	9	
	17:10	1450			114.27	94.84	9.1	
	17:10	1450						Totalizer 71230
	18:16	1516			114.06	94.63		
	18:57	1557			113.55	94.12		
	18:57	1557						Totalizer 72190
	19:33	1593			113.9	94.47	9	
	20:25	1645			114.22	94.79	9.1	
	21:20	1700			14.23	-5.2	9	
	21:42	1722			114.31	94.88	9	
	21:42	1722						Valve opened
	22:21	1761			113.77	94.34		
	22:46	1786			113.27	93.84	9.1	
	22:46	1786						Valve Opened 74261 Totalizer
3/21/2011	2:07	1987					9.1	
	2:07	1987						Totalizer 76092
	5:40	2200			113.89	94.46	9.1	
	5:40	2200						Valve Opened 78025 Totalizer
	7:36	2316			114.8	95.37		

TABLE A.2-1. MANUAL DATA FOR PUMPING WELL 371T132, (CONTINUED).

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	FLOW (gpm)	COMMENT
3/21/2011	7:36	2316						Pipe has slipped 22 inches in course of pump test
3/21/2011	8:17	2357					9	
	8:24	2364						Bucket 10L/17"= 9.1 gpm
	9:03	2403			115.55	96.12	9.1	
	9:03	2403						Valved down
	10:11	2471			115.2	95.77		
	10:55	2515					9.06	
	10:55	2515						Totalizer 80880
	12:18	2598			115.07	95.64		
	13:32	2672			114.91	95.48	9.03	
	14:06	2706					9.1	
	14:06	2706						Totlizer 82610
	15:15	2775			114.95	95.52		
	15:36	2796						Power Out Totalizer 83425
	15:40	2800	4	700	85.36	65.93		
	15:41	2801	5	560.2	84.11	64.68		
	15:42	2802	6	467	80.26	60.83		
	15:47	2807	11	255.1818	66.73	47.3		
	15:52	2812	16	175.75	59.19	39.76		
	15:56	2816	20	140.8	53.4	33.97		
	15:58	2818	22	128.0909	51.48	32.05		
	16:01	2821	25	112.84	48.65	29.22		
	16:03	2823	27	104.5556	46.55	27.12		
	16:08	2828	32	88.375	43.58	24.15		
	16:13	2833	37	76.56757	41.29	21.86		
	16:18	2838	42	67.57143	39.25	19.82		
	16:24	2844	48	59.25	37.7	18.27		
	16:49	2869	73	39.30137	33.87	14.44		
	19:45	3045	249	12.22892	27.6	8.17		
3/22/2011	7:19	3739	943	3.965005	23.97	4.54		
	11:52	4012	1216	3.299342	23.6	4.17		
	16:08	4268	1472	2.899457	23.31	3.88		
	19:49	4489	1693	2.651506	23.11	3.68		
3/23/2011	7:25	5185	2389	2.170364	22.87	3.44		
	11:56	5456	2660	2.051128	22.76	3.33		
	15:22	5662	2866	1.975576	22.62	3.19		
	7:27	5187	2391	2.169385	22.65	3.22		
3/24/2011	11:15							DL Transducer

TABLE A.2-2. MANUAL DATA FOR OBSERVATION WELL 1001.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	COMMENT
03/18/11	13:48:00	-1632	--	--	21.72	0.05	SET TRANSDUCER
03/19/11	7:54:00	-546	--	--	21.59	-0.08	
	11:48:00	-312	--	--	21.68	0.01	
	11:56:00	-304	--	--	21.65	-0.02	RESET TRANSDUCER
	12:52:00	-248	--	--	21.67	0.00	
	14:54:00	-126	--	--	25.56	3.89	
	16:10:00	-50	--	--	24.13	2.46	
	17:44:00	44	--	--	26.50	4.83	
	18:29:00	89	--	--	30.92	9.25	
	20:28:00	208	--	--	35.54	13.87	
	22:04:00	304	--	--	37.46	15.79	
03/20/11	0:55:00	475	--	--	38.90	17.23	
	5:19:00	739	--	--	39.89	18.22	
	10:45:00	1065	--	--	40.67	19.00	
	14:30:00	1290	--	--	41.01	19.34	DL TRANSDUCER
	18:11:00	1511	--	--	41.12	19.45	
	22:27:00	1767	--	--	41.38	19.71	
03/21/11	5:48:00	2208	--	--	41.75	20.08	
	11:04:00	2524	--	--	41.90	20.23	
	14:44:00	2744	--	--	41.90	20.23	
	19:47:00	3047	251	12.14	27.23	5.56	
03/22/11	7:18:00	3738	942	3.97	23.56	1.89	
	11:54:00	4014	1218	3.30	23.15	1.48	
	16:05:00	4265	1469	2.90	22.80	1.13	
	19:47:00	4487	1691	2.65	22.58	0.91	
03/23/11	7:23:00	5183	2387	2.17	22.26	0.59	
	11:55:00	5455	2659	2.05	22.17	0.50	
	15:20:00	5660	2864	1.98	22.11	0.44	
03/24/11	7:26:00	6626	3830	1.73	21.99	0.32	
	10:10:00	6790	3994	1.70	21.96	0.29	DL TRANSDUCER

TABLE A.2-3. MANUAL DATA FOR OBSERVATION WELL 1072

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	COMMENT
03/18/11	14:21:00	-1599	--	--	21.69	-0.07	SET TRANSDUCER
03/19/11	8:01:00	-539	--	--	21.66	-0.10	
	11:52:00	-308	--	--	21.84	0.08	RESET TRANSDUCER
	12:02:00	-298	--	--	21.76	0.00	
	12:48:00	-252	--	--	21.76	0.00	
	14:52:00	-128	--	--	23.47	1.71	
	16:30:00	-30	--	--	23.08	1.32	
	17:42:00	42	--	--	24.23	2.47	
	18:30:00	90	--	--	27.00	5.24	
	20:25:00	205	--	--	30.10	8.34	
	22:02:00	302	--	--	31.32	9.56	
03/20/11	0:52:00	472	--	--	32.63	10.87	
	5:16:00	736	--	--	33.44	11.68	
	10:40:00	1060	--	--	33.93	12.17	DL TRANSDUCER
	14:29:00	1289	--	--	34.09	12.33	
	18:09:00	1509	--	--	34.16	12.40	
	22:25:00	1765	--	--	34.42	12.66	
03/21/11	5:46:00	2206	--	--	34.95	13.19	
	11:00:00	2520	--	--	34.84	13.08	
	14:40:00	2740	--	--	34.77	13.01	
	17:00:00	2880	84	34.29	33.31	11.55	
	19:46:00	3046	250	12.18	25.98	4.22	
03/22/11	7:20:00	3740	944	3.96	22.91	1.15	
	11:53:00	4013	1217	3.30	22.62	0.86	
	16:08:00	4268	1472	2.90	22.35	0.59	
	19:49:00	4489	1693	2.65	22.21	0.45	
03/23/11	7:25:00	5185	2389	2.17	22.03	0.27	
	11:57:00	5457	2661	2.05	21.96	0.20	
	15:22:00	5662	2866	1.98	21.92	0.16	
03/24/11	7:28:00	6628	3832	1.73	21.86	0.10	
	10:16:00	6796	4000	1.70	21.84	0.08	DL TRANSDUCER

TABLE A.2-4. MANUAL DATA FOR OBSERVATION WELL 1006.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	COMMENT
03/19/11	10:42:00	-378	--	--	23.88	0.00	
	11:46:00	-314	--	--	24.01	0.13	
	16:11:00	-49	--	--	25.68	1.80	
	18:26:00	86	--	--	30.61	6.73	
	20:29:00	209	--	--	34.53	10.65	
03/20/11	0:57:00	477	--	--	37.33	13.45	
	5:24:00	744	--	--	38.25	14.37	
	10:49:00	1069	--	--	38.90	15.02	
	14:09:00	1269	--	--	39.37	15.49	
	16:47:00	1427	--	--	39.44	15.56	
	18:12:00	1512	--	--	39.42	15.54	
	22:28:00	1768	--	--	39.61	15.73	
03/21/11	5:50:00	2210	--	--	39.96	16.08	
	11:05:00	2525	--	--	40.14	16.26	
	14:51:00	2751	--	--	40.10	16.22	
	17:04:00	2884	88	32.77	33.27	9.39	
	19:49:00	3049	253	12.05	28.95	5.07	
03/22/11	7:17:00	3737	941	3.97	25.05	1.17	
	11:49:00	4009	1213	3.31	25.06	1.18	
	16:05:00	4265	1469	2.90	24.74	0.86	
	19:46:00	4486	1690	2.65	24.54	0.66	
03/23/11	7:22:00	5182	2386	2.17	24.29	0.41	
	11:54:00	5454	2658	2.05	24.21	0.33	
	15:18:00	5658	2862	1.98	24.15	0.27	
03/24/11	7:25:00	6625	3829	1.73	24.06	0.18	
	10:04:00	6784	3988	1.70	24.04	0.16	

TABLE A.2-5. MANUAL DATA FOR OBSERVATION WELL 1003.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	COMMENT
03/19/11	10:37:00	-383	--	--	20.39	0.00	
	11:50:00	-310	--	--	20.61	0.22	
	16:13:00	-47	--	--	21.17	0.78	
	18:13:00	73	--	--	22.38	1.99	
	20:32:00	212	--	--	24.50	4.11	
03/20/11	0:58:00	478	--	--	25.85	5.46	
	5:26:00	746	--	--	26.32	5.93	
	10:51:00	1071	--	--	26.54	6.15	
	14:10:00	1270	--	--	26.72	6.33	
	16:49:00	1429	--	--	26.73	6.34	
	18:16:00	1516	--	--	26.87	6.48	
	22:29:00	1769	--	--	26.98	6.59	
03/21/11	5:52:00	2212	--	--	27.40	7.01	
	11:06:00	2526	--	--	27.30	6.91	
	14:55:00	2755	--	--	27.26	6.87	
	17:05:00	2885	89	32.42	25.18	4.79	
	19:50:00	3050	254	12.01	23.22	2.83	
03/22/11	7:15:00	3735	939	3.98	21.44	1.05	
	11:48:00	4008	1212	3.31	21.21	0.82	
	16:03:00	4263	1467	2.91	21.03	0.64	
	19:15:00	4455	1659	2.69	20.94	0.55	
03/23/11	7:21:00	5181	2385	2.17	20.79	0.40	
	11:53:00	5453	2657	2.05	20.76	0.37	
	15:17:00	5657	2861	1.98	20.71	0.32	
03/24/11	7:24:00	6624	3828	1.73	20.69	0.30	
	10:03:00	6783	3987	1.70	20.67	0.28	

TABLE A.2-6. MANUAL DATA FOR OBSERVATION WELL 1005.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	COMMENT
03/18/11	14:40:00	-1580	--	--	30.73	7.65	SET TRANSDUCER
03/19/11	7:38:00	-562	--	--	22.96	-0.12	
	11:41:00	-319	--	--	23.08	0.00	
	16:18:00	-42	--	--	24.31	1.23	
	18:16:00	76	--	--	25.76	2.68	
	20:42:00	222	--	--	30.55	7.47	
03/20/11	1:18:00	498	--	--	32.89	9.81	
	5:42:00	762	--	--	33.85	10.77	
	11:08:00	1088	--	--	34.80	11.72	
	14:39:00	1299	--	--	34.86	11.78	
	18:34:00	1534	--	--	35.06	11.98	
	22:42:00	1782	--	--	35.37	12.29	
03/21/11	6:07:00	2227	--	--	35.77	12.69	
	11:27:00	2547	--	--	35.90	12.82	
	15:12:00	2772	--	--	35.94	12.86	
	19:56:00	3056	260	11.75	28.53	5.45	
03/22/11	7:12:00	3732	936	3.99	24.89	1.81	
	11:45:00	4005	1209	3.31	24.40	1.32	
	16:00:00	4260	1464	2.91	24.08	1.00	
	19:41:00	4481	1685	2.66	23.85	0.77	
03/23/11	7:17:00	5177	2381	2.17	23.57	0.49	
	11:50:00	5450	2654	2.05	23.47	0.39	
	15:12:00	5652	2856	1.98	23.42	0.34	
03/24/11	7:21:00	6621	3825	1.73	23.33	0.25	DL TRANSDUCER

TABLE A.2-7. MANUAL DATA FOR OBSERVATION WELL 1087.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	COMMENT
03/18/11	15:05:00	-1555	--	--	34.34	0.08	SET TRANSDUCER
03/19/11	7:47:00	-553	--	--	34.26	0.00	
	11:44:00	-316	--	--	34.37	0.11	
	16:16:00	-44	--	--	35.39	1.13	
	18:14:00	74	--	--	37.39	3.13	
	20:35:00	215	--	--	40.62	6.36	
03/20/11	1:05:00	485	--	--	42.90	8.64	
	5:28:00	748	--	--	43.72	9.46	
	10:53:00	1073	--	--	44.39	10.13	
	14:32:00	1292	--	--	44.81	10.55	
	18:18:00	1518	--	--	44.90	10.64	
	22:31:00	1771	--	--	45.16	10.90	
03/21/11	5:54:00	2214	--	--	45.48	11.22	
	11:09:00	2529	--	--	45.67	11.41	
	14:56:00	2756	--	--	45.70	11.44	
	17:07:00	2887	91	31.73	42.34	8.08	
	19:51:00	3051	255	11.96	39.08	4.82	
03/22/11	7:14:00	3734	938	3.98	35.95	1.69	
	11:46:00	4006	1210	3.31	35.58	1.32	
	16:02:00	4262	1466	2.91	35.27	1.01	
	19:43:00	4483	1687	2.66	35.13	0.87	
03/23/11	7:19:00	5179	2383	2.17	34.82	0.56	
	11:23:00	5423	2627	2.06	34.74	0.48	
	15:15:00	5655	2859	1.98	34.67	0.41	
03/24/11	7:22:00	6622	3826	1.73	34.56	0.30	
	10:07:00	6787	3991	1.70	34.55	0.29	DL TRANSDUCER

TABLE A.2-8. MANUAL DATA FOR OBSERVATION WELL 1011

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	COMMENT
03/18/11	15:37:00	-1523	--	--	29.21	0.68	SET TRANSDUCER
03/19/11	7:26:00	-574	--	--	28.55	0.02	
	11:38:00	-322	--	--	28.62	0.09	
	16:19:00	-41	--	--	28.53	0.00	
	18:17:00	77	--	--	28.51	-0.02	
	20:38:00	218	--	--	28.80	0.27	
03/20/11	1:09:00	489	--	--	29.00	0.47	
	5:32:00	752	--	--	29.27	0.74	
	10:57:00	1077	--	--	29.42	0.89	
	14:34:00	1294	--	--	29.42	0.89	
	18:20:00	1520	--	--	29.44	0.91	
	22:34:00	1774	--	--	29.50	0.97	
03/21/11	5:58:00	2218	--	--	29.54	1.01	
	11:12:00	2532	--	--	29.72	1.19	
	15:02:00	2762	--	--	29.75	1.22	
	17:10:00	2890	94	30.74	29.69	1.16	
	19:53:00	3053	257	11.88	29.51	0.98	
03/22/11	7:09:00	3729	933	4.00	29.10	0.57	
	11:43:00	4003	1207	3.32	29.03	0.50	
	15:58:00	4258	1462	2.91	28.91	0.38	
	19:39:00	4479	1683	2.66	28.82	0.29	ADJUSTED TRANS
03/23/11	7:14:00	5174	2378	2.18	28.84	0.31	
	11:48:00	5448	2652	2.05	28.83	0.30	
	15:07:00	5647	2851	1.98	28.79	0.26	
	19:17:00	5897	3101	1.90	28.78	0.25	
03/24/11	7:19:00	6619	3823	1.73	28.88	0.35	
	11:05:00	6845	4049	1.69	28.81	0.28	DL TRANSDUCER

TABLE A.2-9. MANUAL DATA FOR OBSERVATION WELL 1065.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	COMMENT
03/19/11	8:20:00	-520	--	--	11.25	0.00	
	11:32:00	-328	--	--	11.20	-0.05	
	16:24:00	-36	--	--	11.04	-0.21	
	18:21:00	81	--	--	11.05	-0.20	
	21:10:00	250	--	--	11.05	-0.20	
03/20/11	1:14:00	494	--	--	11.31	0.06	
	5:37:00	757	--	--	11.42	0.17	
	11:03:00	1083	--	--	11.58	0.33	
	14:20:00	1280	--	--	11.51	0.26	
	16:38:00	1418	--	--	11.60	0.35	
	18:24:00	1524	--	--	11.48	0.23	
	22:38:00	1778	--	--	11.32	0.07	
03/21/11	6:02:00	2222	--	--	11.42	0.17	
	11:18:00	2538	--	--	11.52	0.27	
	15:08:00	2768	--	--	11.41	0.16	
	20:00:00	3060	264	11.59	11.21	-0.04	
03/22/11	7:05:00	3725	929	4.01	11.15	-0.10	
	11:37:00	3997	1201	3.33	11.16	-0.09	
	15:54:00	4254	1458	2.92	11.08	-0.17	
	19:35:00	4475	1679	2.67	11.07	-0.18	
03/23/11	7:09:00	5169	2373	2.18	11.07	-0.18	
	11:45:00	5445	2649	2.06	11.06	-0.19	
03/25/11	15:02:00	8522	5726	1.49	11.08	-0.17	
03/26/11	19:01:00	10201	7405	1.38	11.07	-0.18	
03/27/11	7:14:00	10934	8138	1.34	11.09	-0.16	
	9:45:00	11085	8289	1.34	11.09	-0.16	

APPENDIX B

YUTY PROJECT

AQUIFER-TEST THEORY

AQUIFER-TEST THEORY APPENDIX B

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B.1 AQUIFER-TEST THEORY

In order to determine fluid movement through an aquifer, a number of characteristics must be taken into account. Transmissivity is defined as the ability of an aquifer to transmit water and is usually expressed as gallons per day per foot (gal/day/ft). Transmissivity, expressed in these units, is the rate at which water flows through a unit width of an aquifer under a unit hydraulic gradient[2]. Transmissivity must be adjusted by the actual aquifer width and hydraulic gradient to determine actual aquifer flow rates.

Horizontal hydraulic conductivity (permeability) of the aquifer is the transmissivity divided by the aquifer thickness. Permeability is the main parameter that governs the velocity of groundwater movement. Hydraulic gradient and effective porosity are also needed with permeability to determine the velocity.

The storage coefficient, as defined by Theis, is the volume of water an aquifer releases from or takes into storage per unit surface area of the aquifer per unit change in head. The storage coefficient is dimensionless. A confined aquifer derives water from compression of the aquifer and expansion of the water.

B.1.1 THEIS EQUATION

Theis, in 1935, introduced his equation to determine drawdowns in a non-leaky, confined aquifer. The following is a general definition of the Theis equation:

$$T = \frac{114.6Q\ W(u)}{s}$$

$$u = \frac{2693r^2S}{Tt}$$

where: s = drawdown, in feet
Q = discharge, in gallons per minute (gpm)
W(u) = well function, the integral from u to infinity of $(e^{-u})/u\ du$
T = Transmissivity
u = well function variable
r = observation well radius from pumping well, in feet
S = storage coefficient
and t = time since pumping started, in minutes

Pump test data are analyzed by matching the log-log plot of drawdown versus time to Theis' type curve [W(u) vs. 1/u] and applying the above equations to the match[3]. The value of the integral expression for W(u) is given by the following series:

$$W(u) = -0.577216 - \ln u + u - \frac{u^2}{2.2!} + \frac{u^3}{3.3!} \ldots$$

where all terms are as previously defined.

B.1.1.1 STRAIGHT LINE EQUATION

Jacob developed a simplified form of Theis' drawdown equation by truncating the well function series after the first two terms. Assuming the truncation, the following equations were developed to analyze drawdown versus time data on semi-log plots and are called the straight-line or Jacob equation:

$$T = 264\ Q[\log (t_2/t_1)]/(s_2-s_1)$$
$$T = 264\ Q/\Delta s$$
$$S = T\ t_o/4800r^2$$

s_1 = drawdown, in feet, at time since pumping started, t_1, in minutes
s_2 = drawdown, in feet, at time since pumping started, t_2, in minutes
and $t_2 > t_1$
Δs = change in drawdown over one log cycle of time on a semi-log Plot, in feet
S = storage coefficient
t_o = straight-line intercept of zero drawdown, in minutes
r = radius of well, in feet

A straight line is fitted to the semi-log plot of drawdown versus time (log scale) to obtain transmissivity. Jacob suggested the u values less than 0.01 are needed before his straight-line method is useful. However, a plot of W(u) versus 1/u on semi-log paper indicates that this method should be applicable for values of u as large as 0.1. Kruseman and de Rider (1991) suggest the use of a u of less than 0.1 to meet the Jacob condition[4].

B.1.1.2 THEIS RECOVERY EQUATION

Theis' equation can be modified to handle recharge of a well or multiple pumping periods by summation of the well functions. The following equation is the solution of Theis' equation for one pumping and recharge cycle (Recovery equation) of a non-leaky confined aquifer using a log-log match format:

$$T = 114.6\ Q\ [W(u) - W(u')]s'$$
$$u' = 2693\ r^2\ S/Tt'$$
$$T = 114.6\ Q\ [W(u) - W(u) + W(u')]\ s_r$$
$$= 114.6\ Q\ W(u`)/\ s_r$$
$$s_r = s - s'$$

where: s_r = recovery, in feet

s' = residual drawdown (static water level – water level @ t'), in feet
W(u') = recovery well function
u' = recovery well function variable
t' = time since pumping stopped, in minutes

The recovery data sets are analyzed by matching the log-log plot of the recovery versus time since pumping stopped to Theis' type curve. The type curve variables are W(u') and 1/u' for the recovery match. The recovery is computed by estimating the drawdown which would have occurred if pumping had continued, and subtracting this predicted drawdown from the residual drawdown. For example, the recovery at 100 minutes after pumping has stopped is computed by estimating the drawdown had the pumping continued uninterrupted, and subtracting the estimated drawdown from the residual drawdown. The straight-line fit of the drawdown is normally extended to obtain these estimates of drawdown.

The well functions of the residual-drawdown form of Theis' equation were approximated by using the first two terms in the well function series. The following equations present the semi-log form of the Theis recovery equation:

$$T = 264\ Q\ [\log (t/t')]/s'$$

or

$$T = 264\ Q/\Delta s'$$

where: t = time since pumping started, in minutes
t' = time since pumping stopped, in minutes
s' = residual drawdown, in feet
and $\Delta s'$ = change in residual drawdown over one log cycle of t/t' on a semi-log plot, in feet

Therefore, when residual drawdown is plotted on an arithmetic scale versus t/t' on a logarithmic scale, the above equation can be used for the straight line fit[5].

B.1.1.3 MULTI-PUMPING CYCLES THEIS EQUATION

The above definition of pump test theory is for a conventional test where one well is pumped at a constant rate for a drawdown period and then shut off for a recovery period.

The Theis equation for one pumping well which has two cycles at different discharge rates during the test is as follows:

$$T = 114.6/s\ [W(u_1)Q_1 - W(u_1')Q_1 + W(u_2)Q_2 - W(u_1')Q_2]$$
$$u_1 = 1.87r^2S/Tt_1,\ u_1' = 1.87r^2S/Tt_2,\ u_2 = 1.87r^2S/Tt_2$$
$$u_2' = 1.87r^2S/Tt_3$$

where: parameters are the same as before, except:

u_1 = well function variable for the first pumping cycle.
u_1' = recovery well function variable for the first pumping cycle
u_2 = well function variable for the second pumping cycle.
u_2' = recovery well function variable for the second pumping cycle.

t_1 = time since pumping started at first discharge rate in min.
t_2 = time since pumping stopped at first discharge rate, in min.
t_3 = time since pumping started at second discharge rate, in min.
t_4 = time since pumping stopped at second discharge rate, in min.

Q_1 = first discharge rate, in gpm.
Q_2 = second discharge rate, in gpm.

B.1.1.4 MULTI-PUMPING CYCLES STRAIGHT-LINE EQUATION

Theis equation can be modified to handle one pumping well with two separate pumping cycles and recovery cycle by summing the well functions. The summation of the well function for the second pumping cycle results in the following modification of the Jacob equation.

$$T = 264\ Q_1/s\ \log_{10}\ (t_1\ t_3/\ t_2)^{\ Q2/Q1}$$

t_1 = time since pumping started, first time, in min.
t_2 = time since pumping stopped, first time, in min.
t_3 = time since pumping started, second time, in min.

Q_1 = discharge of first pumping cycle, in gpm.
Q_2 = discharge of second pumping cycle, in gpm.

The ratio of Q_2 to Q_1 can be dropped because the discharge was similar for the two pumping cycles. The ratio of $t_1\ t_3/\ t_2$ can replace t in the data plots after the start of the second pumping period. The data after the second pumping cycle would not be expected to follow the straight line until the u value is less than 0.1.

B.1.1.5 MULTI-PUMPING CYCLES RECOVERY STRAIGHT-LINE EQUATION

The adjusted recovery equation for two pumping cycles with the same discharge is as follows:

$$T = 264Q/s'\ \log_{10}\ (t_1\ t_3/\ t_2t_4)$$

Where: t_4 = time pumping stopped, second time, in minutes

The ratio of $t_1t_3/(t_2t_4)$ replaces t/t' in the recovery plot.

B.1.2 HANTUSH'S MODIFIED METHOD

Hantush (1960) presents a modification of the theory of leaky confined aquifers which had previously been described by Hantush and Jacob (1955). The modification took into account the storage of water in the semipervious confining bed. Equations developed are as follows:

$$T = \frac{114.6Q}{s} H(u, BETA)$$

where: H(u, BETA) = the integral from u to infinity of (e^-y)/y [complementary error of the function of (BETA/Square Root U) / Square Root (y(y-u))]dy

u =[(2693)r^2(S)]/Tt

And BETA = r/4b Square Root (K' Ss' / K Ss)

The main parameters are as follows:

T = transmissivity, gal/day/ft.
Q = discharge, gpm
s = drawdown, ft.
y = variable of integration
r = radius, ft.
S = storage coefficient
t = time, min.
b = aquifer thickness, ft.
K = aquifer permeability, ft/day
K' = confining layer permeability, ft/day
Ss = aquifer specific storage, 1/ft.
and Ss' = confining layer specific storage, 1/ft.

This form of the beta equation assumes all leakage is coming from only one of the two confining layers. Hantush (1961) presented tabulations of H(u, BETA) for varying values of u and BETA, and subsequently, a family of type curves showing H(u, BETA) vs. 1/u has been developed. Main aquifer properties can be determined by matching plots of observed drawdown versus time data to one of Hantush's type curves and using the equations presented above. The specific storage of the confining layer can be determined from laboratory measurements of the coefficient of compressibility and void ratio on a core of the aquitard (see Section F.4). The specific storage of the aquifer if the laboratory measurements are not available.

B.1.3 NEUMAN-WITHERSPOON METHOD

A method for determining aquitard vertical permeability has been described by Neuman and Witherspoon (1971) and Neuman and Witherspoon (1972). In this technique, referred to as the Ratio Method, the ratio of drawdown in the aquitard to the drawdown in the pumped aquifer at the same time distance is related to a dimensionless time parameter, t'D:

$$t'D = K't / Ss\ z^2$$

where: K' = aquitard vertical permeability
t = time for which drawdown ration was determined
Ss' = specific storage of the aquitard
= K' / ALPHA'
ALPHA = aquitard diffusivity,
and z = vertical distance from the center of the screened section of the well completed in the aquitard to the aquifer.

t'D is determined graphically. Therefore, aquitard diffusivity (ALPHA') can be calculated from ALPHA' = K' / Ss' = T'D Z^2 / t.

In order to determine aquitard specific storage, Ss', must be ascertained.

$$Ss' = avWw / (1 + e)$$

where: av = coefficient of compressibility
Ww = weight of water,
and e = void ratio

The values of av and e must be determined on samples of the aquitard in the laboratory or Ss' may be estimated based on published reports on similar sediments.

B.1.4 DIRECTIONAL TRANSMISSIVITY

Directional transmissivity of the aquifer was quantified using a method described by Papadopulos (1965). Papadopulos derived an equation for the drawdown distribution around a well discharging at a constant rate from an infinite horizontal anisotropic aquifer. Aquifer-test data from a minimum of three observation wells are analyzed to obtain principal transmissivities and the orientation of the principal axes.

The equations derived by Papadopulos for use in a type-curve matching technique are as follows:

$$s = \frac{114.6Q\ W(Uxy)}{\left[(Txx)(Tyy) - Txy^2\right]^{1/2}}$$

and

$$Uxy = \frac{(1.87S)}{(t)} \frac{\left[(Txx)(y^2) + (Tyy)(x^2) - (2Txy)(x)(y)\right]}{\left[(Txx)(Tyy) - Txy^2\right]}$$

where s = drawdown, in feet
Q = discharge, in gpm
W(Uxy) = well function
Txx, Tyy & Txy = transmissivity components, in gal/day/ft
Uxy = well function variable
S = storage coefficient
t = elapsed time, in days
x = distance from pumping well of observation well along arbitrarily selected x-axis, in feet
and y = distance from pumping well of observation well along arbitrarily selected y-axis (orthogon 1 to x-axis), in feet

For each of the three wells analyzed, observed drawdown data are matched against type curves to determine values of s, t, W(Uxy) and U(xy). Three equations with three unknowns are then solved simultaneously to determine the transmissivity components Txx, Tyy and Txy. Then principal transmissivities, Tee and Tnn, are calculated from the following equations:

$$Tee = \tfrac{1}{2}\left[(Txx + Tyy) + (Txx - Tyy)^2 + 4Txy^2\right]$$

and

$$Tnn = \tfrac{1}{2}\left[(Txx + Tyy)^2 + 4Txy^2\right]$$

where: Tee = maximum transmissivity
and Tnn = minimum transmissivity

The angle between the arbitrarily selected x-axis and the axis of maximum transmissivity (θ) is then determined by the following equation:

$$\theta = \arctan(Tee - Txx)/Txy$$

B.1.5 NEUMAN EQUATION

Theis' equation with Jacob's (1944) correction for aquifer thinning has been used to extensively analyze unconfined aquifer tests. However, this equation does not take into account the free surface boundary of the water table. Theories of unconfined aquifers are more complicated than the Theis equation due to the moving boundary at the phreatic surface. Boulton (1954) presented an unconfined flow equation for drawdown at the free surface. This equation has not been used very extensively, because drawdowns at the phreatic surface and from a well which fully penetrates the aquifer are considerably different. Stallman (1963, 1965) developed type curves for an unconfined aquifer from an electric analog, but these curves have not been used extensively because they are for limited well conditions. Dagan (1967) and Neuman (1972, 1974) have developed computer programs which compute type curve values for unconfined aquifer conditions. Neuman showed that unconfined aquifers have some storage from compression of the aquifer structure and the expansion of the fluid. His equation, therefore, has both a storage coefficient and a specific yield term. Dagan's equation considers only the specific yield for storage. All of these unconfined aquifer equations produce equal type curves for the same conditions except Neuman's curves, which depart from the other curves at early pumping times. Unconfined aquifers which demonstrate the confining effect normally have a flat drawdown curve after the confined portion of the drawdown curve. Finally, the drawdown curve returns to a Theis type drawdown curve. Neuman (1974) and Dagan (1967) have demonstrated that the flat portion of the drawdown curve is due to the vertical flow effects. This flat portion of the drawdown curve will be more obvious as the anisotropic ration (vertical permeability divided by horizontal permeability) decreases.

Development of Neuman (1974) type curves requires execution of a computer program for each individual pump test. Streltsova (1972, 1973) developed an approximation of the vertical flow equation and has shown this approximation is the same as Boulton's (1963) flow equation. Streltsova's approximation allows Boulton's type curves to be used to analyze an unconfined aquifer with consideration of vertical flow, if all wells are fully penetrating. Penetration (the length of the well bore where water enters) of the pumping and observation wells is significant for the pump tests conducted in this investigation. The confining effects of the unconfined aquifer is also important for matching the early drawdown data. Therefore, only Neuman's (1974) method will be further discussed.

Neuman (1974) presents the theory of his unconfined flow equation which is used in the development of Neuman type curves using a computer program. The following is a form of Neuman's unconfined aquifer equation:

$$T = 114.6\,(Q)\,(s_D/s)$$
$$S_y = Tt/\{10{,}770\,(r^2)(t_y)\}$$
$$\beta = (r^2/D^2)(K_v/K_h)$$
$$\alpha = S/S_y$$

where: all terms are the same as previously defined, plus

s_D = dimensionless drawdown (same as well function in Theis equation, except it accounts for penetration and two storage terms)
t_y = dimensionless time (same as 0.25 (1/u) in Theis' equation)

D = aquifer thickness, in feet
S_y = specific yield
K_v = vertical permeability, in feet/day
K_h = horizontal permeability, in feet/day

This basic form of the Neuman is used with the geometric setting of the pumping and observation wells and penetration information in the computer program to produce dimensionless drawdown (s_D) versus dimensionless time (t_y) data points for different β (BETA) and α (ALPHA) conditions. Figure J-1 presents the variables used to define well penetrations. The pumping well penetrations are defined by two variables and the observation well's penetration can be defined by two variables which define the top and bottom of the observation well perforation. It can be shown that most observation wells can be represented by a piezometer at the center ZD of the perforated interval without introducing significant errors. The radius of the observation well from the pumping well and the aquifer thickness are included in the BETA term. This term is typically varied for different anisotropic ratios (K_v/K_h). Neuman (1975) recommends the use of a small ALPHA (S/S_y) value for the computer development of the type curves and then adjusting the ALPHA as outlined by Neuman (1975) to obtain the ALPHA value that best fits the observed data.

Neuman's or Dagan's equations do not account for aquifer thinning. Therefore, Jacob's (1944) correction for aquifer thinning is recommended for pump test analyses with these theories also. Pump test data are analyzed by matching the log-log plot of drawdown versus time to Neuman's type curve (s_D vs. t_y) and applying the above equation to the match.

Jacob's straight-line method can be used to analyze drawdown in unconfined aquifers, but the u value is not the only criterion to determine if this method is applicable. A semi-log plot of Neuman's type curves are presented in Figure 2 of Neuman (1975) to demonstrate the applicability of using the straight-line plot to determine transmissivity for unconfined aquifers. Early- and late-time portions of the Theis equation, which form a straight-line, are shown as a solid line on this plot. The straight-line method should yield an accurate transmissivity when the Neuman type curves converge with solid lines. The specific yield value could be in error, however, because partial penetration can cause the late straight line to be shifted parallel to the Theis straight line.

The slope of the straight line from a Neuman type curve is likely to be different from the slope of the Theis straight line. The Theis straight line coefficient of 264 needs to be adjusted to account for the variation in slopes. Therefore, the straight line coefficient adjustment should be made to account for the Neuman unconfined flow theory for the semi-log plots.

B.1.6 WTAQ METHOD

The U.S. Geological Survey (USGS) has developed a computer program (WTAQ) to develop type-curves for partially penetrating wells in confined and unconfined aquifers. The unconfined program is based on the Neuman unconfined aquifer equation with a few added features.

The following is the form of the WTAQ equation for fully penetrating wells and an isotropic aquifer using the units of gallons, minutes and feet for the log-log type curve match:

$$T = \frac{114.6Qhd}{s}$$

$$S = \frac{Tt}{10{,}770 t_D r^2}$$

Where parameters are same as above plus:

hd = dimensionless drawdown
t_D = dimensionless time
SIGMA = S/Sy
KV/KH = vertical anisotropic ratio

For semi-log straight-line method:

$$T = \frac{264Q}{\Delta s}$$

$$S = \frac{Tt_o}{1200r^2}$$

Where parameters are the same as above

The unconfined and partial penetration conditions can require that the straight line coefficients (264 and 1200) for the fully penetrating and isotropic need to be adjusted. The slope and intercept of the straight line for the partially penetrating and/or unconfined type curve needs to be compared to the fully penetrating isotropic WTAQ confined type curve to obtain the adjustments in the coefficients.

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APPENDIX C

COLUMN LEACH TEST

Amenability of Uranium Ore to Acid In-Situ Leaching Chemistry

By John Litz
J. E. Litz & Associates, LLC
29 September, 2008

Summary

A short laboratory program was performed on crushed ore to determine the amenability to sulfuric acid leaching. The leaching was performed in a column (buret) flooded with solution. The sulfuric acid test dissolved 86% of the U_3O_8, at an acid consumption of 56 kg sulfuric acid per metric ton of ore. The acid leach discharge solutions averaged 40 mg U_3O_8/L.

Purpose

The test program was designed to determine whether or not the ore responded to acidic, uranium leaching chemistry. Ore porosity and permeability are the most critical factors in determining whether or not a particular ore is amenable to in-situ leaching. Porosity and permeability data followed by pilot testing in the field is the only way to truly determine the applicability of in-situ leaching to a particular ore body. The present test program merely indicates the response to the leaching chemistry.

Ore Preparation

A number of bags containing core pieces were received. The bags were checked with a Gieger Counter and pieces of core were selected from Bags 004, 012, 019, and 024. The core pieces were combined and crushed using a small jaw crusher, with about a 3/8-inch setting. After one pass through the crusher the ore was screened at 3/8-inch and the oversize was passed through the crusher a second time. The second crusher product was also screened at 3/8-inch. A few tabular pieces of oversize were retained on the screen. All fractions were blended together as feed for the leaching test.

Leaching Apparatus

A sketch of the leaching apparatus is shown in Figure 1. The apparatus included a 500-mL buret, to hold the ore, and a peristaltic (tubing) pump to advance the lixiviant (leaching solution) to the ore. A wad of glass wool in the buret bottom served as the ore support.

The ore was charged to the buret in layers such that particle sizes did not segregate. The total amount charged to the buret was 433.4 grams.

The lixiviant was pumped from a reservoir using a variable-speed peristaltic pump that was connected to an interval, on-off timer. This allowed for reasonable control of the hourly flow to the buret. The lixiviant discharged onto the top of the ore in the buret.

Tubing from the buret bottom looped up the side of the buret and discharged into a small funnel. The discharge level was adjusted so that the liquid level in the buret covered the ore. The funnel then discharged into a reservoir. Initially the solution collected in the reservoir was sampled daily, but as the flow rate was decreased the sampling interval increased to three or four days.

Discussion of Leaching Results

Data for the leaching test is listed in Table 1, Test 6-13-A. The values in the columns indicate the following:

Date of sampling
Time of day the sample was taken
ID number for the sample
Concentration of lixiviant used for the subsequent time interval
Volume of discharge sample
pH and oxidation potential of discharge sample (absolute mv)
U_3O_8 concentration in sample
Milligrams of U_{308} contained in the sample
Calculated cumulative percentage of uranium soluble including that sample
Cumulative milligrams of U_{308} soluble
Cumulative soluble uranium expressed and the equivalent percent U_{308} dissolved from the ore
Bed volumes per day - calculated on a day basis, ignoring differences in the time sampled
Cumulative bed volumes
Free sulfuric acid in the discharge sample measured by titration
Sulfuric acid added to the ore calculated on a kg of acid per metric ton of ore
Calculated residual sulfuric acid in the discharge on a kg per metric ton basis
Calculated sulfuric acid consumption on a kg per metric ton basis

The lixiviant for the first day contained only 12 g/L sulfuric acid. The discharge pH was 2.05, so the lixiviant for the second day was reduced to 6 g/L sulfuric acid. The discharge pH decreased to 1.86, so the lixiviant was reduced to 3 g/L sulfuric acid plus 0.5 g/L iron as ferric sulfate and 0.1 g/L sodium chlorate added as oxidants. For the next 14 days the discharge pH remained below 2.0. However, a heat wave increased the average temperature in the laboratory by about 10°F. This permitted more reaction of the acid and the discharge pH increased to 2.05. The sulfuric acid level in the lixiviant was increased to 6 g/L for one 4-day cycle and then to 8 g/L for the balance of the test. At this higher acid level the discharge pH values averaged about 1.4.

For the first eight days, the lixiviant flow averaged about 1.0 bed volumes per day (volume of the buret containing the ore.) Analyses indicated a fairly rapid decrease in the uranium content of the discharge solution so the flow rate was first reduced to about 0.5 bed volumes per day and then to 0.4 bed volumes per day.

The initial discharge solution contained 131 mg U_3O_8/L. After ten bed volumes the concentration decreased to about 24 mg/L $U_{308.}$ The acid consumption increased when the heat wave started raising the discharge pH to 2.05 and the soluble uranium decreased to only 5.3 mg

U308/L. Increasing the acid concentration in the lixiviant initially increased the uranium concentration to 79 mg U308/L. As the test continued, the discharge concentration decreased to 25 mg U308/L. The average discharge concentration for the test was 40 mg U308/L.

Figure 2 plots the uranium dissolution versus the bed volumes, nominally 400 mL, of lixiviant. The uranium dissolution was fairly rapid for the first six bed volumes, about 4.5% per bed volume. The rate then decreased to about 1% per bed volume for the next ten bed volumes. For bed volumes 19 through 29, (after the acid concentration was increased) the leaching rate averaged about 3% per bed volume.

The oxidation potential and residual free sulfuric acid were measured on each sample of discharge. Once oxidant was added to the lixiviant the oxidation potentials increased to 568 mv and above (absolute mv). The residual free acid was as low as 0.4 g/L sulfuric acid when the discharge p11 was 2.03 and as high as 8 g/L sulfuric acid near the end when the lixiviant contained 8 g/L sulfuric acid. The acid consumption calculated for the test was 56 kg/metric ton (112 lb/short ton or 41 lb sulfuric acid per lb of soluble U308.)

The residual solids contained 0.024% $_{U308,}$ indicating that the uranium concentration in the feed sample was 0.160 % U308.

The total dissolution in the acid leach was 86%. This level of dissolution in a laboratory test indicates recovery in a commercial in-situ leach, assuming permeability and porosity allow it, of 60 to 80%.

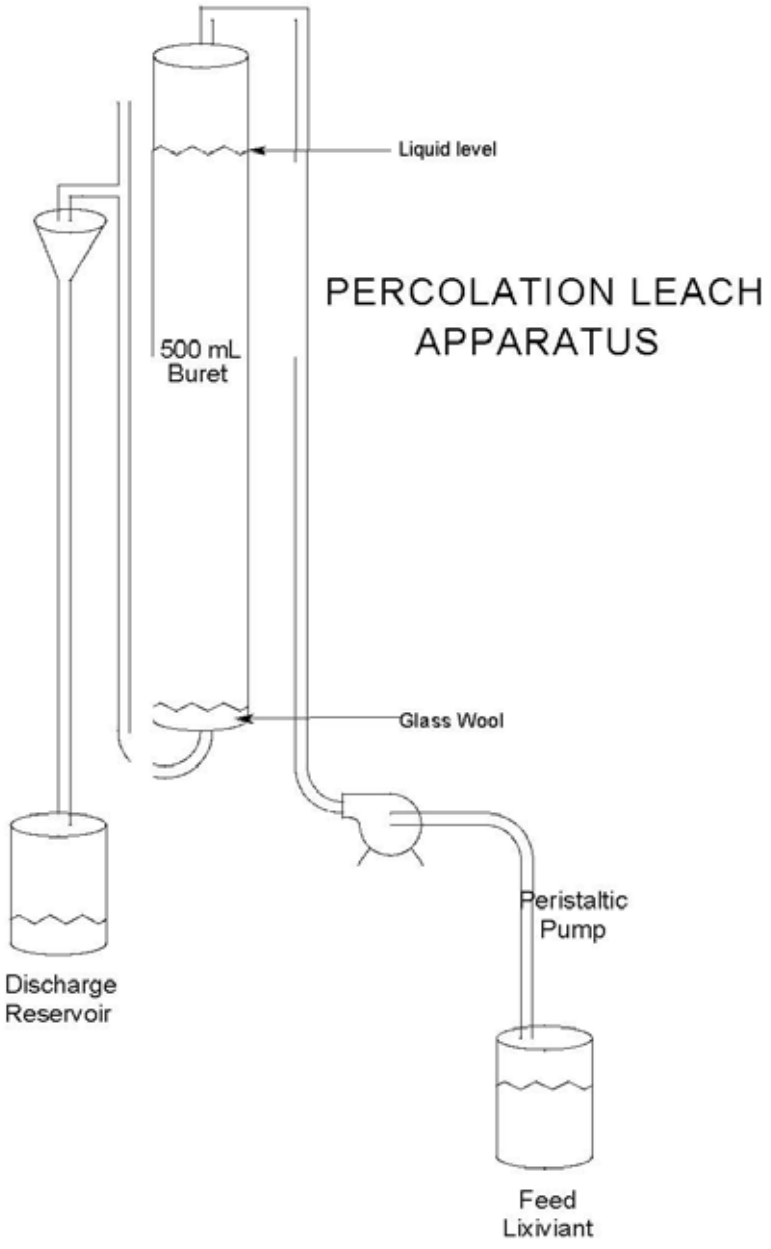
Liquid level
PERCOLATION LEACH
APPARATUS
500 mL
Buret
Glass Wool
Peristaltic
Pump
Discharge
Reservoir
Feed
Lixiviant

FIGURE 1

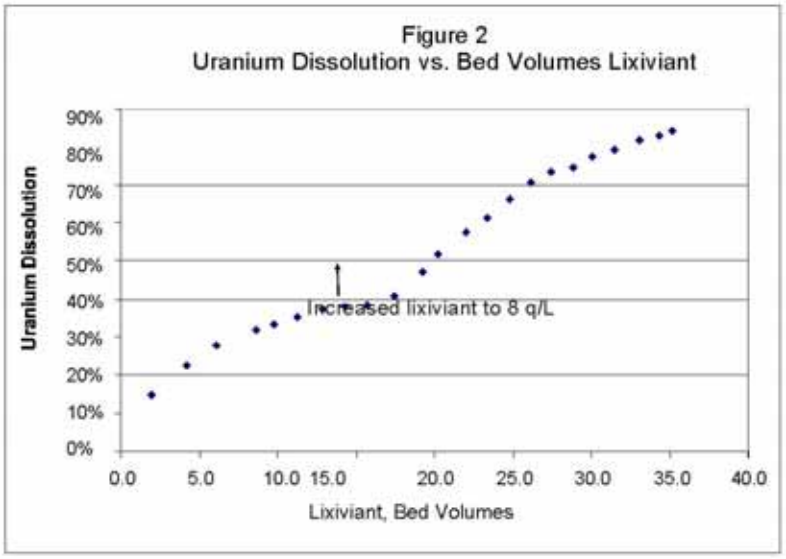
Figure 2
Uranium Dissolution vs. Bed Volumes Lixiviant
Uranium Dissolution
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Increased lixiviant to 8 g/L
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
Lixiviant, Bed Volumes

J.E. Litz & Associates, L.L.C.		PERCOLATION LEACHING DATA SHEET	Project No.:	08-2-3
Metallurgical & Chemical Processing Consulting Engineers			Date:	6/13/2008
5906 McIntyre Street	(303) 854-2035			
Golden, CO 80403	FAX (303) 273-0494			

TABLE 1

Ore Preparation: Crushed selected core pieces through jaw crusher, removed <3/8-in recrushed oversize, some tabular material did not pass 3/8-inch. **Test No:** 6-13-A

Apparatus: 2-inch diameter x 18-inch column 0.022 sq ft Sample: 433.4 grams
variable speed peristaltic pump

Lixiviant: H2SO4, 0.5 g/L Fe and 0.5 g/L NaClO3 after discharge is <2.5 pH,

Flow: 5 gpd/sq ft 412 mL/d 0.3 mL/min

		Sample	Lixiviant	Discharge Solution				U3O8		Sol Cum	Sol %	Bed Volumes	Cum Bed	Free Acid
Date	Time	No.:	H2SO4,g/L	Volume	pH	mv	mg/L	mg	% soluble	mg	U3O8	per day	Volumes	g/L
13-Jun	14:45		12											
14-Jun	19:30	6-13-A-1	6	490	2.05							1.23	1.2	
15-Jun	16:30	6-13-A-2	3+Fe+ClO3	300	1.86	387	131	103	15%	103	0.024	0.75	2.0	0.98
16-Jun	16:00	6-13-A-3	3+Fe+ClO3	510	1.85							1.28	3.3	
17-Jun	15:30	6-13-A-4	3+Fe+ClO3	370	1.92	568	59.7	53	23%	156	0.036	0.93	4.2	1.47
18-Jun	16:30	6-13-A-5	3+Fe+ClO3	370	1.94							0.93	5.1	
19-Jun	15:30	6-13-A-6	3+Fe+ClO3	395	1.88	612	47.2	36	28%	192	0.044	0.99	6.1	1.63
21-Jun	19:15	6-13-A-7	3+Fe+ClO3	680	1.65							0.85	7.8	
23-Jun	10:40	6-13-A-8	3+Fe+ClO3	355	1.67	623	26.9	28	32%	220	0.051	0.44	8.7	1.31
25-Jun	13:00	6-13-A-9	3+Fe+ClO3	450	1.72	627	23.5	11	33%	231	0.053	0.56	9.8	0.98
29-Jun	19:30	6-13-A-10	3+Fe+ClO3	580	1.72	634	22.1	13	35%	243	0.056	0.36	11.3	0.82
3-Jul	13:10	6-13-A-11	3+Fe+ClO3	650	1.86	639	22.2	14	37%	258	0.059	0.41	12.9	0.57
6-Jul	15:10	6-13-A-12	3+Fe+ClO3	570	2.03	632	7.7	4.4	38%	262	0.060	0.48	14.3	0.41
10-Jul	10:10	6-13-A-13	6+Fe+ClO3	560	2.05	600	5.3	3.0	38%	265	0.061	0.35	15.7	0.49
14-Jul	13:10	6-13-A-14	8+Fe+ClO3	705	1.81	643	25.0	18	41%	283	0.065	0.44	17.5	0.98
18-Jul	15:00	6-13-A-15	8+Fe+ClO3	710	1.38		60.2	43	47%	326	0.075	0.44	19.2	2.70
21-Jul	11:30	6-13-A-16	8+Fe+ClO3	400	1.34		78.7	31	52%	357	0.082	0.33	20.2	6.00
25-Jul	12:30	6-13-A-17	8+Fe+ClO3	705	1.27	564	58.3	41	58%	398	0.092	0.44	22.0	6.37
28-Jul	14:30	6-13-A-18	8+Fe+ClO3	540	1.30	583	48.1	26	61%	424	0.098	0.45	23.4	8.82
31-Jul	19:30	6-13-A-19	8+Fe+ClO3	580	1.29	604	59.3	34	66%	458	0.106	0.48	24.8	9.31
4-Aug		6-13-A-20	8+Fe+ClO3	555	1.40	572	53.7	30	71%	488	0.113	0.35	26.2	9.31
8-Aug		6-13-A-21	8+Fe+ClO3	510	1.38	574	36.1	18	73%	507	0.117	0.32	27.5	6.37
11-Aug	10:45	6-13-A-22	8+Fe+ClO3	560	1.38	572	17.2	10	75%	516	0.119	0.47	28.9	9.56
14-Aug	14:15	6-13-A-23	8+Fe+ClO3	500	1.37	562	36.1	18	77%	534	0.123	0.42	30.1	8.58
18-Aug	8:30	6-13-A-24	8+Fe+ClO3	560	1.36	568	25.0	14	79%	548	0.127	0.35	31.5	8.58
22-Aug	9:10	6-13-A-25	8+Fe+ClO3	640	1.33	582	24.1	15	82%	564	0.130	0.40	33.1	8.82
25-Aug	9:20	6-13-A-26	8+Fe+ClO3	485	1.30	593	18.5	9	83%	573	0.132	0.40	34.3	7.35
27-Aug	15:00	6-13-A-27	8+Fe+ClO3	360	1.42	571	28.2	10	84%	583	0.134	0.45	35.2	7.84
28-Aug		6-13-A-28	Rinse	510			20.8	11	86%	594	0.137			
28-Aug		6-13-A-29	Residue	409	grams	mg/kg	240	98		692	0.160			

PercLeachA.xls, Table 1, 912912008

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