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ANNUAL REPORT
PERMIT TO MINE NO. 478
July 1, 2015 through June 30, 2016

This document provides the information required by the Wyoming Environmental Quality Act, Wyoming Statue 35-11-411 and the LQD NonCoal Rules and Regulations (LQD NC R&R) Chapter 11. Each section is a response to a specific request listed in the Required In Situ Annual Report Format, which was provided by District III, Land Quality Division, Wyoming Department of Environmental Quality (WDEQ).

REQUIRED ANNUAL REPORT INFORMATION

I. GENERAL INFORMATION:

Name of Permittee:	Uranium One USA, Inc. 907 N. Poplar Street, Suite 260 Casper, Wyoming 82601
Mining Permit Number:	Permit to Mine No. 478
Date of Permit Issuance:	August 18, 1978
Amendment No. 1:	March 6, 1987
Amendment No. 2:	September 12, 1988
Mineral Mined:	Uranium

State and Federal Mineral Lease Numbers inside Permit Area:

Uranium One USA Inc. operations are primarily conducted on federal mining claims. These claims are too numerous to list here. Referenced locations in the following text are shown on specified maps located in the Report Appendices.

REPORTING PERIOD:

The annual WDEQ report period for Permit No. 478 is July 1, 2015 through June 30, 2016.

CERTIFICATION AND SIGNATURE (required):

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Scott Schierman HSE Manager Uranium One Americas, Inc

Print Name and Title of Principal Executive Officer or Authorized Agent

Signature of Principal Executive Officer or Authorized Agent Date

II. Mine Operations:

During this annual reporting period, mining operations at the Christensen Ranch site consisted of production in Mine Unit 5-2, Mine Unit 7, Mine Unit 8, Mine Unit 10A and Mine Unit 10B. In Mine Unit 7, Modules 1 through 6 are in operation. In Mine Unit 8, Modules 1, through 4/5 and Modules 6-9 are in operation. In Mine Unit 10A Modules 1 and 2 are in operation. In Mine Unit 10B Module 3-6 are in operation. Uranium One decreased production from Mine Units 5-2, MU7, MU8 and MU10 in April of 2015. Uranium One restarted production of Mine Unit 8 in March of 2016 and is presently maintaining a bleed to establish a cone of depression in Mine Units 5-2, Mine Unit 7, and Mine Unit 10.

There were no drilling or well completions that occurred at the Willow Creek Project during this reporting period.

There were 15,126 pounds of uranium as U_3O_8 captured for the report period. Tabulated quantity of uranium historically recovered from both projects is provided below:

Year	**Lbs. U_3O_8**
December, 1978 - August 18, 1979	101,581
August 19, 1979 - August 18, 1980	122,462
August 19, 1980 - August 18, 1981	58,394
August 19, 1981 - August 18, 1982	425
August 19, 1982 - August 18, 1987	0
August 19, 1987 - August 18, 1988	127,350
August 18, 1988 - July 31, 1989	245,514
November 6, 1989 - February 1, 1990	105,030
August 19, 1990 - August 18, 1991	6,224
August 19, 1991 - July 31, 1992	239,723
August 1, 1992 - June 30, 1993	168,967
July 1, 1993 - June 30, 1994	323,726
July 1, 1994 - June 30, 1995	417,237
July 1, 1995 - June 30, 1996	713,238
July 1, 1996 - June 30, 1997	650,197
July 1, 1997 - June 30, 1998	523,237
July 1, 1998 - June 30, 1999	201,010
July 1, 1999 - June 30, 2000	146,264
July 1, 2000 - June 30, 2001	32,411
July 1, 2001 - June 30, 2002	39,415
July 1, 2002 - June 30, 2003	24,712
July 1, 2003 - June 30, 2004	17,700
July 1, 2004 - June 30, 2005	14,705
July 1, 2005 - June 30, 2006	0
July 1, 2006 - June 30, 2007	0
July 1, 2007 - June 30, 2008	0
July 1, 2008 – June 30, 2009	0
July 1, 2009 – June 30, 2010	0
July 1, 2010 – June 30, 2011	59,332
July 1, 2011 – June 30, 2012	371,938
July 1, 2012 – June 30, 2013	915,845

July 1, 2013 – June 30, 2014	786,814
July 1,2014 – June 30, 2015	350,912
July 1, 2015 – June 30, 2016	15,126
Total	**6,779,489**

A. Operating Wellfields

1. Wells in Operation

The location of wells operating Christensen Ranch wellfields has not changed from previous annual report and this information is available in electronic format in Appendix 2 as "W.C. Operating Wellfields 2015-2016.pdf." In addition to this map an ArcGIS Map Package titled "W.C. Operating Wellfields.mpk" is also included. This Map Package contains a table with locations and completion details for all wells currently at Christensen Ranch. No changes from operational status occurred during 2016 so these maps from the previous report period are consistent with current wellfield conditions.

2. Well Completion Details

The location of all wells installed in conjunction with Willow Creek (Irigaray and Christensen Ranch Projects) mining activities is available in electronic format in Appendix 2 as "W.C. All Wells 2013-2014.pdf." In addition to this map an ArcGIS Map Package titled "W.C. All Wells 2013-2014.mpk" is also included. This Map Package includes the location details for all of the wells installed in conjunction with mining operations. No wells have been installed during the current reporting period.

B. Water Balance/Hydrology

1. Injection and Production Fow Rates

Willow Creek's injection and production flow rates are continuously recorded from instrumentation at the Wellfield Module Buildings and electronically stored on the wellfield computer system (PLC). Table 1 located in Appendix 1 contains the monthly production, injection and bleed flow volumes for each wellfield area obtained during the reporting period. A review of Table 1 shows that the overall bleed rate for the Willow Creek Project was maintained at 15.9% of the production flow rate.

During the last 3 months of the report period Uranium One did not have a bleed well running in MU 5-2. The monitor wells did not show any upward trends of the mining solutions moving outward from the wellfield. Bleed in MU5-2 has since been reestablished.

2. Potentiometric Surface Maps

Potentiometric maps of the monitored aquifers shallow zone, production zone and deep zone for the Willow Creek Project are included in Appendix 3. The maps were constructed using water level data from monitor wells and trend wells where applicable. This data was collected during June 2016.

3. Handling of Wastewater Stream

To control lixiviant migration in the wellfield at the Willow Creek Project, a bleed is taken from the process stream after the fluid exits the IX columns. The fluid then is treated in the reverse osmosis unit (RO) for lixiviant makeup needed for reinjection. The brine waste stream from the RO is then sent to one of the evaportation ponds for storage prior to final disposal in the two permitted deep disposal wells located at the project. Permeate waters generated from this process are stored in the Permeate Storage Pond for evaporation.

C. Spills

1. Summary of Spills

There was one (1) reportable spill during this report period in Mine Unit 2-4, Emails, written notifications and summary reports were submitted to the WDEQ and NRC regarding this event and will not be duplicated in this report.

Maps showing the above spill locations and extent are provided in Appendix 4.

D. Excursions

1. Summary of Excursions

Uranium One had two monitor wells on Excursion Status during the report period; Reports regarding these excursions was sent to the WDEQ and will not be duplicated in this report.

E. Mechanical Integrity Testing Results

1. Summary of Results

MIT results are reported to the WDEQ on a quarterly basis. Three hundred eighty six (386) MITs were completed during the report period with three hundred forty eight (348) wells passing the MIT test and thirty eight (38) wells failing the MIT test. Thirty five (35) of the wells that failed MIT were plugged and surface abandonment will be performed at a later date per discussions with WDEQ. The remaining three (3) failed MIT wells were converted from injection to recovery wells. This data has been provided in the previous Quarterly reports and an electronic copy of this data has been included in Table 5 of Appendix 1 and included in an electronic format in Appendix 2 of this report.

F. New Affected Lands during the Reporting Period

1. Topsoil – Volumes

During the reporting period there were no additional topsoil stockpiles established for the Willow Creek Project. The locations of the historic topsoil stockpiles for the project are shown on the Christensen and Irigaray Project Area Facilities Maps located in Appendix 4 and also shown in the topsoil table located in Section III Reclamation/Restorations Activities of this report.

2. Subsoil - Volumes

Due to the nature of in-situ mining, no subsoil material has been produced or stockpiled.

3. New Buildings Constructed

Christensen Ranch Site

During the reporting period there were no construction activates that occurred at the Christensen Ranch Site. A Christensen Project Area Facilities Location Map has been provided in Appendix 4 which depicts current site conditions.

Irigaray Site

During the reporting period there were no construction activities that occurred at the Irigaray site. An Irigaray Project Area Facilities Map has been provided in Appendix 4. Uranium One completed the final Status Decommissioning Report for Irigaray Mine Units 1-9 in August 2015. Approximately 12 acres were re-seeded as part of this process. and the remaining access roads will be left intact at the landowner's request. Uranium One is currently waiting on the NRC approval of the Final Status Decommissioning Report for Irigaray Mine Units 1-9.

4. New Pond Construction

No new ponds were constructed at the Willow Creek Project during the reporting period.

5. New Roads and Utilities

During the report period no new roads or utilities were constructed at the Willow Creek Project.

All existing roads and site utilities are shown on the Christensen and Irigaray Project Area Facilities Maps located in Appendix 4.

6. Wellfield Disturbance

During the report period no new wellfield disturbance occurred.

G. New Wells/Wellfields Installed During the Reporting Period

During this reporting period the Willow Creek Project did not install any new wells/Wellfields.

H. Stimulation activities for Class III wells

During this reporting period no stimulation activities were performed on any of Willow Creek Project's Class III wells.

I. Environmental Monitoring

All locations referenced in this section are shown on the Environmental Monitoring Station Locations Map located in Appendix 4.

Groundwater Monitoring – Wellfield Monitor Wells

Groundwater quality at the Christensen site is monitored by routine sampling of 223 monitor and trend wells surrounding or within the active wellfields. There are 25 monitor wells that are sampled in Mine Unit 5-2, 64 monitor wells are sampled in Mine Unit 7, 74 monitor wells are sampled in Mine Unit 8, 20 monitor wells are sampled in Mine Unit 10A, 38 monitor wells are sampled in Mine Unit 10B and two monitor wells are sampled that are "shared" between 10A and 10 B.. Sampling of these monitor wells is performed on a by-weekly basis.

Additionally, there are 241 monitor wells that are sampled on a quarterly basis during post-restoration/stabilization of Mine Units 2, 3, 4, 5 and 6. This will continue until the Christensen Ranch Wellfield Restoration report submitted to the WDEQ and NRC in April 2008 and September 2015 response to NRC questions receive regulatory approval.

Sample data for each monitor and trend well from July 1, 2015 through June 30, 2016 have been summarized and submitted to the WDEQ in the Quarterly Reports and an electronic copy of this data has been included in Appendix 2.

Groundwater Monitoring – Regional Ranch Wells

Quarterly samples were collected from seven regional ranch wells during the report period. Regional well samples were analyzed for uranium along with four other radionuclides in the decay chain. The resulting concentrations were primarily Non Detectable (ND) with the detected concentrations within normal historical ranges. The analytical data for these wells has been summarized in Table 2 located in Appendix 1.

Surface Water Monitoring

Willow Creek is an intermittent stream present within the permit boundary of both the IR and CR projects. There are three sample locations designated at each site: upstream, downstream and within the permit boundary. Quarterly samples were collected from the locations where flow was available. An annual sample of the Powder River (IR-5) was also collected near the IR site, downstream from its confluence with Willow Creek.

Please note that at the request of the NRC, GS-01 has been moved further down gradient on Willow Creek within the existing mine permit boundary.

The samples were analyzed for both radionuclide and chemical parameters. The resulting radionuclide concentrations were mostly non-detectable, with the remaining concentrations within historical ranges. The chemical parameters were also within historical ranges. The analytical data for the 2015 - 2016 Surface Water sampling has been summarized in Table 3 located in Appendix 1.

Surface Discharge Monitoring

A surface discharge outfall is present at the CR project for disposal of treated groundwater generated by restoration activities. The outfall is licensed under National Pollutant Discharge Elimination System (NPDES) permit issued by the WDEQ. Due to no groundwater restoration activities occurring, no water was discharged at the CR site (Permit No. WY0033642, discharge 002) during this report period, therefore no data set is included.

Evaporation Pond Monitoring

Weekly inspections are conducted on all operable evaporation ponds (currently four at IR and five at CR) on a weekly basis. The evaporation ponds are sampled on a quarterly basis. The analytical data for the 2015 – 2016 Evaporation Pond sampling has been summarized in Table 4 located in Appendix 1.

In the 4th qtr. of 2015 a routine quarterly pond sample from Irigaray pond RB showed radium results of 2270 pCi/l which appeared to be an outlier. Calculations for the radium results were checked by the analytical laboratory as the reported value is higher by a factor of 100 from historical values. The laboratory confirmed the sample results were calculated correctly. Results from the 1st and 2nd quarter 2016 sampling events indicate Ra-226 values are within with historical range at 36 to 47 pCi/l. The 4th quarter of 2015 sampling results for Ra-226 at pond RB appear to be an anomaly that are not supported by sampling events during 2016. Uranium One has put measures in place to identify anomalies in a timely manner so samples can be re-analyzed.

Pond CR-2 has an identified leak and we are currently dropping the water level. Uranium One has tentatively planned to begin relining Pond CR-2 during the 4th quarter of 2016.

Pond IR-D has an identified leak and Uranium One intends to lower the water level so the pond can be inspected for holes in the liner. The lowering of the water level is an ongoing process.

In the first week of November 2015 during a routine weekly pond inspection a crack was observed on the east embankment of the CR permeate pond.

On November 5, 2015 the HSE Manager and site personnel did an inspection of the pond and determined that there was a problem with the pond embankment and took the pond out of service. On November 16, 2015 Uranium One and a representative of WWC engineering conducted an inspection of the permeate pond to evaluate the cracking that was observed and recorded by Uranium One personnel. Uranium One determined that the pond should be taken out of service and WWC Engineering was enlisted to developed plans and specifications for repairs to the permeate pond. Uranium One anticipates that repairs to the permeate pond will begin in in the late 3rd quarter 2016 and will be completed by 4th quarter 2016.

Underground Injection Wells

Two Class I injection wells are installed at the Willow Creek Project and are licensed by WDEQ Permit Number UIC10-219 for industrial wastes. (Former Permit UIC00-340 was

renewed on August 7, 2012 and issued as UIC10-219).

Part I MIT conducted on DW No.1 on February 9, 2016 after repairs were made to correct a pressure leak identified and reported to WDEQ on February 4, 2016. WDEQ authorized Uranium One to resume injection on DW No. 1 on February 10, 2016. A full report of the corrective actions and testing was sent to the WDEQ on February 9, 2016 and will not be duplicated in the report.

On June 14th through June 17th, 2016 annual falloff testing and MIT testing were done on Christensen Ranch DW-1 and Christensen Ranch 18-3 disposal wells, no anomalies were observed during any of the testing. A full report of the testing was sent to the WDEQ on July 14th, 2016 and will not be duplicated in the report.

Wildlife Monitoring

ICF International was contracted by Uranium One to perform an annual wildlife monitoring survey and prepare a summary report for the 2015 wildlife monitoring which is included in this report in Appendix 5.

J. Deviations or Unanticipated Events or Conditions

During the reporting period, there were no incidents of deviation or unanticipated events that were identified.

K. Projected Operations

Mining activities continued through May of 2015 for Mine Units 7, 8 and 10 at which time mining activities were curtailed and wellfield maintenance activities were initiated. Uranium One resumed partial mining activities in Mine Unit 8 in March 2016. Uranium One anticipates resumption of limited mining activities for Mine Unit 10 and Mine Unit 7 will begin in the 3rd of 4th quarter 2016. Mining plans scheduled to take place during the next reporting period are as follows:

During the next reporting period, it is not anticipated that any new wellfield data packages will be submitted for approval however Module 10-7 and 10-8 could be put into operations during the next reporting period.

III. Reclamation / Restoration Activities

A. Groundwater Restoration Activities

All groundwater restoration activities, including stabilization monitoring, ended at Christensen Ranch on May 30, 2005. The results of all wellfield restoration were compiled and submitted to the WDEQ-LQD and NRC on April 8, 2008 in the *Wellfield Restoration Report Christensen Ranch Project* (March 5, 2008). Uranium One (U1) received comments in the NRC Restoration Technical Evaluation Report (TER), dated October 23, 2012 concerning the CR Wellfield Restoration Report. The WDEQ-LQD District III staff had provided comments related to their review of the NRC TER in a letter dated January 7, 2013.

The WDEQ-LQD staff had stated that the NRC TER was quite sufficient and the TER had affirmed the WDEQ review of the 2008 Report. In the January letter WDEQ had requested that Uranium One address the NRCs outlined issues accordingly and logically. By letters dated July 8, 2013 and July 9, 2013 Uranium One provided an update of activities and plans to address comments in the NRC TER to the NRC and WDEQ-LQD, respectively.

Currently Uranium One, with consultation and assistance from ARCADIS, has conducted additional data collection efforts during the reporting period. This new data, in conjunction with the recent data collected by Uranium One, will be used to compare current production zone water quality concentrations with the stabilization water quality concentrations presented in the 2008 Mine Unit 2-6 Groundwater Restoration Report and a response to NRC Restoration TER comments was provided to NRC on September 11, 2015. Copies of the ARCADIS report responding to NRC technical comments have been provided to WDEQ/LQD for their review.

B. Well Plugging and Abandonment Reports

During the reporting period, a total of thirty eight (38) wells which failed MIT in Mine Units 7 and 10 were properly plugged. Surface reclamation for these wells will be performed at a later date as approved by WDEQ/LQD. Three wells were converted from injection to recovery wells and were reported in the 2nd Quarter 2016 reports for Permit 478. Information on plugged wells during the reporting period is shown in Table 5 of Appendix 1 of this report. Updated maps showing the locations of these 39 plugged wells are included in are included in Appendix 4 of this annual report.

C. Surface Reclamation Activities

1. Summary

During the reporting period at the Irigaray Site Uranium One finished all decommissioning of Irigaray Mine Units 1-9 and the wellfield building which will stay in place and be turned over to the landowner. All decommissioning efforts were being conducted according to the *Decommissioning Plan for Irigaray and Christensen Ranch Projects, NRC Source Materials License SUA-1341 and WDEQ Permit to Mine No, 478, A-2* as stated in Condition 9.3 of License SUA-1341 Amendment No. 1. To date all remaining buried wellfield pipeline has been removed and shipped to Shirley Basin for 11(e) byproduct disposal. The final status decommissioning report for Irigaray Mine Unit 1-9 was submitted to NRC in August 2015.

The annual noxious weed-spraying program was done in the summer of 2015 and continued in 2016 at the time of this report. A total of 80 acres were sprayed at the Willow Creek site.

a. Table provided below contains the total estimated historical topsoil stockpile volumes and dates stockpiled were created as a result from mining activities at the Willow Creek Project.

Stockpile No.	Estimated Volume (yd^3)	Date Stockpiled

Irigaray Project:		
1	1,657.0	Nov. 1976*
2	267.0	Sep. 1978
3	9,748.0	Sep. 1978
4	120.0	Oct. 1978
5	2,248.0	Oct. 1978
6	9,463.0	Aug. 1979
7	1,553.0	Sep. 1979
8	630.0	Oct. 1979
9	3,032.0	Jul. 1980
10	3,369.0	Aug. 1980
11	1,444.0	Aug. 1980
12	8,771.0	Aug. 1980
*IR stockpile No. 1 was utilized for the restoration efforts of 5I7 in May 2004.		

Christensen Ranch Project:		
1	71,787.0	Sep. 1988
2	17,182.0	Sep. 1988
3	14,278.0	Oct. 1988
4	16,779.0	Oct. 1988
5	6,520.0	Mar. 1993
6	1,680.0	Apr. 1993
7	8,291.2	May. 1998
8	4,315.0	Jun. 1995
9	16,822.0	Jun. 1995
10	1,157.0	Apr. 1996
11	4,888.9	Jul. 1996
12	4,120.0	Jan. 1997
13	3,514.7	May. 1998
14	2,591.3	Dec. 1999
15	787.5	Jul. 2011
16	500.0	Sept. 2011
17	116.7	June 2012
18	204.2	June 2012
19	385.0	June 2012
20	680.0	June 2012
21	222.2	June 2012
22	360.0	May 2012

23	416.7	June 2012
24	540.0	June 2012
25	750.0	March 2012
26	1800.0	April 2012
27	357.5	April 2012
28	312.5	March 2012
29	144.5	May 2012
30	852.0	June 2012
31	480.0	June 2012
32	1000.0	May 2012
33	840.0	Oct. 2011
34	817.0	Aug. 2012

b. Seeding activates performed at the Willow Creek Project during this reporting period was limited to interim seeding at the Christensen site.
c. Permanent seeding was performed in the Irigaray wellfield with a seed approved seed mixture from the land owner and WDEQ. Approximately seven to nine acres was seeded. Roadways and areas around the wellfield building will have seeding completed in the fall of 2015.
d. A table is supplied below for the total estimated surface acreage disturbed to date from mining activities at the Willow Creek Project.

Irigaray Project:	
Years Affected	**Acreage**
All disturbances prior to August 17, 1978	9.00 Acres
August 18, 1978 - August 18, 1979	74.56 Acres
August 19, 1979 - August 18, 1980	43.38 Acres
August 19, 1980 - August 18, 1981	4.66 Acres
August 19, 1981 - August 18, 1995	0.00 Acres
August 19, 1995 - August 18, 1996	1.50 Acres
August 19, 1996 – August 18, 2010	0.00 Acres
August 19, 2010 – August 18, 2012	0.00 Acres
August 19, 2012 – August 18, 2013	0.00 Acres
Total	133.10 Acres
Christensen Ranch Project:	
Years Affected	**Acreage**
August 19, 1988 - August 18, 1989	79.60 Acres[1]
August 19, 1989 - August 18, 1990	10.50 Acres[2]
August 19, 1990 - August 18, 1992	0.00 Acres

August 19, 1992 - August 18, 1993	106.87 Acres[3]
August 19, 1993 - August 18, 1994	5.00 Acres[4]
August 19, 1994 - August 18, 1995	40.72 Acres[5]
August 19, 1995 - August 18, 1996	66.26 Acres[6]
August 19, 1996 - August 18, 1997	33.70 Acres[7]
August 19, 1997 - August 18, 1998	12.98 Acres[8]
August 19, 1998 - August 18, 1999	95.70 Acres[9]
August 19, 1999 - August 18, 2000	2.53 Acres[10]
August 19, 2000 – August 18, 2008	0.00 Acres
August 19, 2008 - August 18, 2009	0.00 Acres
August 19, 2009 - August 18, 2010	2.29 Acres
August 19, 2010 – August 18, 2011	123.7 Acres
August 19, 2011 – August 18, 2012	137.4 Acres[11]
August 19, 2012 – August 18, 2013	125.04 Acres
Total	842.29 Acres
GRAND TOTAL (IR & CR)	**975.39 Acres**

[1]Mine Unit 3 wellfield area - 45.99, ponds & plant - 13.98, topsoil - 3.71, roads - 11.03, lay-down area - 4.88; [2]Unit 3 extension - 10.50; [3]Unit 2 wellfield, pipeline corridors & staging areas - 50.15, Unit 2 topsoil - 0.96, roads - 7.36, Unit 4 development area - 48.08, Unit 4 topsoil - 0.32; [4]Unit 5 lay-down area & delineation holes, - 5.00; [5]Unit 5 roads - 11.1, Unit 5 wellfield, pipeline corridors & staging area - 27.20, Unit 5 topsoil - 2.42; [6]Unit 5 wellfield & pipeline corridors - 47.8, Unit 5 roads & modules - 1.9, Unit 5 topsoil - 0.04, Unit 6 wellfield, delineation holes, & staging area - 11.1, Unit 6 topsoil - 2.52, Deep disposal well # 1 - 2.9, [7]Unit 6 Booster Pump Station & road - 1.8, Unit 6 wellfield, delineation holes & staging area - 29.2, Unit 6 roads & module buildings - 2.7; [8]Unit 7 delineation holes – 10.52, Unit 7 lay-down & borrow area - 0.22, Unit 8 delineation holes - 4.48; [9]Unit 7 development area & delineation holes - 42.7, Unit 8 exploration hole sealing & delineation holes - 53.0 acres; [10]Deep disposal well # 18-3 location & road - 2.3 acres, wellfield electrical line replacement - 0.23; [11]Delineation holes in MU-8,9,10,11 and 12 – 41.7 acres, construction disturbance in MU7 and 8 – 83.3 acres, MU8 trunkline and Booster Station - 7.4 acres, MU10 drilling pond and lay down yard – 5 acres.

D. Deviations or Unanticipated Events

1. There were no deviations from the approved Reclamation/Restoration Plan during the reporting period at the Willow Creek Project.

IV. Drill Hole Reporting

A. Maps

No drill holes were abandoned during the report period no map has been provided.

Uranium One received an extension on July 1, 2015 from WDEQ/LQD to delay abandonment of the 200 temporary capped pilot holes currently in Mine Unit 10B in place

until August 2016. Uranium One submitted reports on sampling from ten randomly selected temporary capped holes as required by WDEQ/LQD to verify absence of water in September 2015 and May 2016 and this information will not be duplicated in this report. Based on sampling conducted by Uranium One indicating the temporarily capped holes continue to be absent water, Uranium One has requested an extension to the August 2016 abandonment for these wells so they can be cased and utilized as production or injection wells for the next module in Mine Unit 10.

B. Drill Holes

During the reporting period no drill holes were abandoned.

C. Description of Disturbances and Reclamation

During the 2015 – 2016 Annual Report reporting period no drill holes were abandoned and no additional disturbance of acreage occurred.

D. Seeding Activities

No drill hole seeding activities occurred during the 2015 -2016 reporting period.

V. Reclamation Performance Surety Estimate

In accordance with SUA-1341 License Condition 9.5 as required by 10 CFR 40, Appendix A, Criterion 9 an updated reclamation/restoration surety estimate for July 1, 2015 through June 30, 2016 is provided in Appendix 6. Uranium One (U1) has currently put any significant development plans at the Willow Creek project on hold due to the low market price of uranium. Therefore, most changes to the 2015-2016 surety estimate concern updating current operating costs or revisions to reflect current development plans.

Changes have been highlighted in gray throughout the surety estimate worksheets and brief explanations are given below. Additionally, costs in Worksheets 2-6 have been updated using the revised "Cost Summary Sheet" as mentioned below. The costs in Worksheet 1 "Groundwater Restoration" have been escalated using an 18.2% inflation factor based on the Consumer Price Index (CPI) for all urban consumers from September 2006 to June 2016.

It should be noted that currently in Mine Unit 10 (MU10) U1 has only completed wellfield modules 10-1 (Mod 10-1 through 10-6) and as previously mentioned no further development is planned during the next reporting period. However the wells and abandonment cost associated with (Mod10-7) and (Mod 10-8) have been included in this surety estimate. Additionally this surety estimate includes proposed guard wells (10) for the Ludeman project and an underlying monitor well (1) for MU 2 for Ludeman.

Cost Summary Sheet

- All costs taken from WDEQ-LQD Guideline 12 have been updated based on the February 2016 revision.
- Operational costs have been updated as needed.

Worksheet 1: Groundwater Restoration

- The wellfield area and number of wells for MU10 has been adjusted to include wells for Module 10-7 and 10-8. Ludeman proposed guard wells (10) and underlying wells (1) have been added to well total for 201.
- The required WDEQ-WQD 3% annual adjustment for the plugging and abandonment of deep disposal wells CR DW-1 and CR 18-3 has been accounted for and is currently over bonded based on bonding estimates conducted in August 2016.
- Credit for completion of groundwater sweep for Christensen Ranch Mine Units 2-6 has been granted by the WDEQ and authorized by NRC; therefore, separate WDEQ estimates and NRC estimates are provided.
- Removed $2800 in cost associated with IR Wellfield 1-5 pond analysis

Worksheet 2: Plant Equipment Removal and Disposal

- Cost estimate remains the same as the 2015-2016 August 2016 cost estimates.
- During the 2014-2015 reporting period Uranium One changes to account for volume of Module building for MU10-7 and MU10-8 in MU10 were included.
- Costs adjusted to reflect the February 2016 Guideline 12 update.

Worksheet 3: Building Demolition and Disposal

- Cost estimate remains the same as 2015-2016 August 2016 cost estimates.
- During the 2014-2015 building demolition and disposal activities were added for MU10-7 and 10-8 module buildings.
- Cost adjustments to reflect the February 2016 Guideline 12 update.
- Disposal and transportation cost were updated to reflect current disposal cost and transportation cost estimates received in 2016.

Worksheet 4: Pond Reclamation Cost

- Remained the same as 2015-2016 August 2016 cost estimates.

Worksheet 5: Well Plugging and Abandonment

- Costs remain the same as the 2015-2016 August 2016 cost estimates.
- The total number of wells for CR MU10 has been increased in the 2014-2015 estimates to reflect the number of wells needed for Modules at MU10-7 & MU10-8.

- Ludeman guard wells (10) in the upper most aquifer proposed for Ludeman and an underlying well (1) for MU2 have been added to the well total for MU10.

Worksheet 6: Wellfield Equipment Removal & Disposal

Section I: Wellfield Piping

- The number of wells and amount of piping in CR MU10 has been revised to include MU10-7 and MU10-8 and MU11 has been revised to reflect actual numbers and plans for the 2014-2015 reporting period.
- Added cost for 7300 feet of buried trunkline for IR wellfield expansion use.
- Removed cost associated with Mine Unit 11.

Section II: Production Well Pumps
- The number of production well pumps has been revised to reflect the MU10-7 and MU10-8 and 11 wells at Ludeman.

Section V: Manholes
- Same as 2014-2015 assumptions.

Worksheet 7: Topsoil Replacement & Revegetation

- Costs remain the same as the 2015-2016 August 2016 cost estimates.
- Same as 2014-2015 assumptions, no changes made.

Worksheet 8: Miscellaneous Reclamation

- Costs remain the same as the 2015-2016 August 2016 cost estimates.
- Added 3500 foot of fence for Mine Unit 107 and Mine Unit 108 into the cost estimate.

Table 1, Summary:

In summary, the new grand total surety estimate for WDEQ is $21,115,495 and the NRC estimate is $21,707,323. This represents an increase of $58,960 from the 2015 surety update provided to WDEQ and an increase of $34,685 from the 2015 NRC estimate. The 2015 surety estimate of $21,624,510 is currently being reviewed by WDEQ and NRC and represents a $48,128 decrease over the current approved surety of $21,672,638 approved by WDEQ on July 1, 2015 and NRC on August 20, 2015. The current approved NRC surety is a Reclamation Surety Bond issued in the favor of the State of Wyoming-DEQ in the amount of $21,672,638 (NRC License SUA-1341 Amendment No. 4, Condition 9.5). Uranium One respectfully requests that WDEQ approve the new 2016 surety estimate in the amount of $21,707,323 for its Willow Creek Operations.

APPENDIX 1

Table 1
Page 1 of 3
Uranium One USA, Inc. - Christensen Ranch Project
2015-2016 WDEQ Annual Report
Injection and Production Flow Rates

Date	MU 5-2 Monthly Totals			
	Production (gallons)	Injection (gallons)	Bleed (gallons)	% Bleed
July 2015	0	0	0	0.0 %
August 2015	0	0	0	0.0 %
September 2015	0	0	0	0.0 %
October 2015	0	0	0	0.0 %
November 2015	0	0	0	0.0 %
December 2015	0	0	0	0.0 %
January 2016	0	0	0	0.0 %
February 2016	0	0	0	0.0 %
March 2016	0	0	0	0.0 %
April 2016	0	0	0	0.0 %
May 2016	0	0	0	0.0 %
June 2016	0	0	0	0.0 %
Totals	**0**	**0**	**0**	**0.0 %**

Date	MU 7 Monthly Totals			
	Production (gallons)	Injection (gallons)	Bleed (gallons)	% Bleed
July 2015	444,101	0	444,101	100.0 %
August 2015	655,972	0	655,972	100.0 %
September 2015	498,572	0	498,572	100.0 %
October 2015	435,431	0	435,431	100.0 %
November 2015	518,775	0	518,775	100.0 %
December 2015	391,262	0	391,262	100.0 %
January 2016	306,051	0	306,051	100.0 %
February 2016	182,433	0	182,433	100.0 %
March 2016	208,871	0	208,871	100.0 %
April 2016	290,024	0	290,024	100.0 %
May 2016	587,102	0	587,102	100.0 %
June 2016	327,774	0	327,774	100.0 %
Totals	**4,846,368**	**0**	**4,846,368**	**100.0 %**

Table 1
Page 2 of 3
Uranium One USA, Inc. - Christensen Ranch Project
2015-2016 WDEQ Annual Report
Injection and Production Flow Rates

Date	MU 8 Monthly Totals			
	Production (gallons)	Injection (gallons)	Bleed (gallons)	% Bleed
July 2015	1,791,233	0	1,791,233	100.0 %
August 2015	494,139	0	494,139	100.0 %
September 2015	402,791	0	402,791	100.0 %
October 2015	623,859	0	623,859	100.0 %
November 2015	565,207	0	565,207	100.0 %
December 2015	250,041	0	250,041	100.0 %
January 2016	616,255	0	616,255	100.0 %
February 2016	702,037	0	702,037	100.0 %
March 2016	20,615,401	20,116,676	498,725	2.4 %
April 2016	38,985,098	38,366,778	618,320	1.6 %
May 2016	56,479,902	54,796,072	1,683,830	3.0 %
June 2016	50,517,737	49,246,951	1,270,786	2.5 %
Totals	**172,043,700**	**162,526,477**	**9,517,223**	**5.5 %**

Date	MU 10A Monthly Totals			
	Production (gallons)	Injection (gallons)	Bleed (gallons)	% Bleed
July 2015	981,760	0	981,760	100.0 %
August 2015	777,124	0	777,124	100.0 %
September 2015	799,537	0	799,537	100.0 %
October 2015	1,107,096	0	1,107,096	100.0 %
November 2015	1,500,854	0	1,500,854	100.0 %
December 2015	1,232,704	0	1,232,704	100.0 %
January 2016	1,611,497	0	1,611,497	100.0 %
February 2016	1,478,786	0	1,478,786	100.0 %
March 2016	1,365,076	0	1,365,076	100.0 %
April 2016	1,007,086	0	1,007,086	100.0 %
May 2016	848,004	0	848,004	100.0 %
June 2016	669,551	0	669,551	100.0 %
Totals	**13,379,075**	**0**	**13,379,075**	**100.0 %**

Table 1
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Uranium One USA, Inc. - Christensen Ranch Project
2015-2016 WDEQ Annual Report
Injection and Production Flow Rates

Date	MU 10B Monthly Totals			
	Production (gallons)	Injection (gallons)	Bleed (gallons)	% Bleed
July 2015	476,210	0	476,210	100.0 %
August 2015	689,216	0	689,216	100.0 %
September 2015	799,059	0	799,059	100.0 %
October 2015	194,197	0	194,197	100.0 %
November 2015	237,510	0	237,510	100.0 %
December 2015	62,777	0	62,777	100.0 %
January 2016	242,225	0	242,225	100.0 %
February 2016	29,432	0	29,432	100.0 %
March 2016	255,168	0	255,168	100.0 %
April 2016	19,595	0	19,595	100.0 %
May 2016	0	0	0	0.0 %
June 2016	0	0	0	0.0 %
Totals	**3,005,389**	**0**	**3,005,389**	**100.0 %**

Overall	**193,274,532**	**162,526,477**	**30,748,055**	**15.9 %**

Table 2
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Uranium One USA, Inc. - Willow Creek Project
2015 - 2016 WDEQ Annual Report
Groundwater Monitoring - Regional Ranch Wells

Sample Location: Christensen Ranch House #3				
	2015		2016	
	3rd quarter September 24, 2015	4th quarter December 21, 2015	1st quarter March 9, 2016	2nd quarter June 16, 2016
Uranium	8.2E-09 (µCi/ml)	ND	8.1E-09 (µCi/ml)	1.1E-08 (µCi/ml)
Thorium-230	ND	ND	ND	ND
Radium-226	9.0E-10 (µCi/ml)	ND	6.0E-10 (µCi/ml)	8.0E-10 (µCi/ml)
Lead-210	1.1E-09 (µCi/ml)	ND	1.7E-09 (µCi/ml)	ND
Polonium-210	N/D	ND	ND	ND

Sample Location: Christensen Ellendale #4				
	2015		2016	
	3rd quarter September 24, 2015	4th quarter December 21, 2015	1st quarter March 9, 2016	2nd quarter June 16, 2016
Uranium	9.0E-10 (µCi/ml)	6.0E-10 (µCi/ml)	3.0E-10 (µCi/ml)	ND
Thorium-230	ND	ND	ND	ND
Radium-226	3.0E-10 (µCi/ml)	2.0E-10 (µCi/ml)	4.0E-10 (µCi/ml)	2.0E-10 (µCi/ml)
Lead-210	ND	ND	ND	ND
Polonium-210	ND	ND	ND	ND

Sample Location: Christensen Middle Artesian				
	2015		2016	
	3rd quarter September 24, 2015	4th quarter December 21, 2015	1st quarter March 9, 2016	2nd quarter June 16, 2016
Uranium	9.5E-09 (µCi/ml)	1.3E-8 (µCi/ml)	1.3E-8 (µCi/ml)	8.4E-09 (µCi/ml)
Thorium-230	ND	ND	ND	ND
Radium-226	ND	3.0E-10 (µCi/ml)	7.0E-10 (µCi/ml)	4.0E-10 (µCi/ml)
Lead-210	1.2E-9 (µCi/ml)	ND	1.0E-9 (µCi/ml)	1.3E-9 (µCi/ml)
Polonium-210	ND	ND	ND	ND

Table 2
Page 2 of 3
Uranium One USA, Inc. - Willow Creek Project
2015 - 2016 WDEQ Annual Report
Groundwater Monitoring - Regional Ranch Wells

Sample Location: Christensen Del Gulch Lower #13				
	2015		2016	
	3rd quarter September 24, 2015	4th quarter December 21, 2015	1st quarter March 9, 2016	2nd quarter June 16, 2016
Uranium	9.0E-10 (µCi/ml)	ND	ND	ND
Thorium-230	ND	ND	ND	ND
Radium-226	ND	2.0E-10 (µCi/ml)	5.0E-10 (µCi/ml)	ND
Lead-210	1.7E-9 (µCi/ml)	ND	1.2E-9 (µCi/ml)	ND
Polonium-210	1.2E-9 (µCi/ml)	ND	ND	1.2E-9 (µCi/ml)

Sample Location: Christensen Willow Corral #32				
	2015		2016	
	3rd quarter September 24, 2015	4th quarter December 21, 2015	1st quarter March 9, 2016	2nd quarter June 16, 2016
Uranium	5.0E-10 (µCi/ml)	Well was down	ND	ND
Thorium-230	ND		ND	ND
Radium-226	2.0E-10 (µCi/ml)		3.0E-10 (µCi/ml)	2.0E-10 (µCi/ml)
Lead-210	ND		1.3E-9 (µCi/ml)	ND
Polonium-210	ND		ND	ND

Sample Location: Irigaray Willow # 2				
	2015		2016	
	3rd quarter September 24, 2015	4th quarter December 21, 2015	1st quarter March 9, 2016	2nd quarter June 16, 2016
Uranium	5.0E-10 (µCi/ml)	ND	ND	ND
Thorium-230	ND	ND	ND	ND
Radium-226	ND	ND	3.0E-10 (µCi/ml)	ND
Lead-210	ND	ND	1.0E-9 (µCi/ml)	ND
Polonium-210	ND	ND	ND	ND

Table 2
Page 3 of 3
Uranium One USA, Inc. - Willow Creek Project
2015 - 2016 WDEQ Annual Report
Groundwater Monitoring - Regional Ranch Wells

Sample Location: Christensen First Artesian Well #1				
	2015		2016	
	3rd quarter September 24, 2015	4th quarter December 21, 2015	1st quarter March 9, 2016	2nd quarter June 16, 2016
Uranium	6.0E-10 (µCi/ml)	ND	ND	ND
Thorium-230	N/D	ND	ND	ND
Radium-226	ND	ND	4.0E-10 (µCi/ml)	ND
Lead-210	ND	ND	ND	ND
Polonium-210	ND	ND	ND	ND

LLD's

Uranium	2.0E-10 µCi/ml
Thorium-230	2.0E-10 µCi/ml
Radium-226	2.0E-10 µCi/ml
Lead-210	1.0E-9 µCi/ml
Polonium-210	1.0E-9 µCi/ml

ND = NON DETECTABLE

Table 3
Page 1 of 1
Uranium One USA, Inc. - Willow Creek Project
2015 - 2016 WDEQ Annual Report
Surface Water Monitoring

	Date	Uranium (µCi/ml)	Thorium 230 (µCi/ml)	Radium 226 (µCi/ml)	Lead 210 (µCi/ml)	Polonium 210 (µCi/ml)	Total Alkalinity (mg/L)	Chloride (mg/L)	TDS (mg/L)	Specific Conductivity (umhos/cm)	Sulfate (mg/L)	pH (s.u.)	Arsenic (mg/L)	Selenium (mg/L)	Estimated Flow Rate:
Willow Creek IR-9 Downstream															
3rd Quarter 2015	9/23/2015	1.6E-08	ND	ND	ND	ND	361	726	6010	7700	2530	8.0	ND	ND	Low
4th Quarter 2015	12/10/2015	9.7E-09	ND	ND	ND	ND	334	539	4100	4440	1800	7.9	ND	ND	Low
1st Quarter 2016	3/9/2016	1.2E-08	ND	4.0E-10	1.0E-09	ND	373	664	5290	6580	2130	7.9	ND	ND	Low
2nd Quarter 2016	6/16/2016	3.4E-09	ND	4.0E-10	ND	ND	337	919	6660	7610	2910	8.2	ND	ND	Low
Reporting Limit		2.0E-10	2.0E-10	2.0E-10	1.0E-09	1.0E-09	5	1	10	5	1	0.1	0.005	0.005	
Willow Creek IR-14 Upstream															
3rd Quarter 2015	9/23/2015	2.8E-08	ND	3.0E-10	ND	ND	647	25	3000	4350	1430	9.2	ND	ND	Low
4th Quarter 2015	12/10/2015	2.5E-09	ND	2.0E-10	ND	ND	1240	11	1450	2120	95	8.7	ND	ND	Low
1st Quarter 2016	3/9/2016	3.7E-09	ND	2.0E-10	ND	ND	1720	15	2270	3410	276	8.6	ND	ND	Low
2nd Quarter 2016	6/16/2016	1.3E-09	ND	3.0E-10	ND	ND	1520	14	1860	2710	121	9.1	ND	ND	Low
Reporting Limit		2.0E-10	2.0E-10	2.0E-10	1.0E-09	1.0E-09	5	1	10	5	1	0.1	0.005	0.005	
Willow Creek IR-17 Mine Site															
3rd Quarter 2015	9/23/2015	1.3E-08	ND	ND	ND	ND	476	24	3980	5020	2100	8.2	ND	ND	Low
4th Quarter 2015	12/10/2015	1.9E-08	ND	ND	ND	ND	650	17	2670	3170	1310	8.2	ND	ND	Low
1st Quarter 2016	3/9/2016	1.8E-08	ND	ND	ND	ND	475	23	3750	4560	2060	8.1	ND	ND	Low
2nd Quarter 2016	6/16/2016	1.3E-08	ND	ND	ND	ND	384	23	3700	4370	2170	8.3	ND	ND	Low
Reporting Limit		2.0E-10	2.0E-10	2.0E-10	1.0E-09	1.0E-09	5	1	10	5	1	0.1	0.005	0.005	
Powder River (Sampled Annually)	6/16/2016	4.8E-09	ND	3.0E-10	ND	ND	236	181	1780	2390	772	8.6	ND	ND	High
Reporting Limit		2.0E-10	2.0E-10	2.0E-10	1.0E-09	1.0E-09	5	1	10	5	1	0.1	0.005	0.005	
Willow Creek GS-01 Downstream															
3rd Quarter 2015	No sample was taken - all dry														
4th Quarter 2015	No sample was taken - all dry														
1st Quarter 2016	3/31/2016	9.6E-09	ND	4.0E-10	1.0E-09	ND	76	22	1210	1350	668	8.2	ND	0.009	Low
2nd Quarter 2016	6/16/2016	8.9E-09	ND	3.0E-10	ND	ND	137	14	1470	1760	818	8.2	ND	0.008	Low
Reporting Limit		2.0E-10	2.0E-10	2.0E-10	1.0E-09	1.0E-09	5	1	10	5	1	0.1	0.005	0.005	
Willow Creek CG-05 Upstream															
3rd Quarter 2015	9/23/2015	6.5E-09	ND	ND	ND	ND	240	14	2720	3230	1520	8.2	ND	ND	Low
4th Quarter 2015	12/10/2015	2.3E-08	ND	ND	3.8E-09	ND	318	13	2520	2660	1410	8	ND	ND	Low
1st Quarter 2016	3/9/2016	1.7E-08	ND	3.0E-10	ND	ND	298	12	2330	2830	1290	8.1	ND	ND	Low
2nd Quarter 2016	6/16/2016	5.4E-09	ND	ND	1.3E-09	ND	289	6	3010	3230	1170	8.4	ND	ND	Low
Reporting Limit		2.0E-10	2.0E-10	2.0E-10	1.0E-09	1.0E-09	5	1	10	5	1	0.1	0.005	0.005	
Willow Creek GS-03 Mine Site															
3rd Quarter 2015	9/23/2015	2.0E-08	ND	3.0E-10	1.5E-09	ND	78	36	4160	5150	2520	8.2	ND	ND	Low
4th Quarter 2015	12/10/2015	2.0E-08	ND	3.0E-10	3.2E-09	ND	94	37	4160	4170	2570	8	ND	ND	Low
1st Quarter 2016	3/9/2016	2.3E-08	ND	3.0E-10	ND	ND	221	49	4750	5530	2700	8.3	ND	ND	Low
2nd Quarter 2016	6/16/2016	2.3E-08	ND	4.0E-10	2.8E-09	1.0E-09	117	14	2200	2540	1300	8.1	ND	ND	Low
Reporting Limit		2.0E-10	2.0E-10	2.0E-10	1.0E-09	1.0E-09	5	1	10	5	1	0.1	0.005	0.005	

Estimated Flow Rate:
Low = <5cfs
Medium = 5 - 50 cfs
High = > 50 cfs

Table 4
Page 1 of 4
Uranium One USA, Inc. - Willow Creek Project
2015- 2016 WDEQ Annual Report
Evaporation Pond Monitoring
Sample Date: 09/23/2015 (3rd Quarter 2015)

Pond ID #	IR-A	IR-B	IR-C	IR-D
Sulfate (mg/l)	Unlined (Not in Use)	21,400	Unlined (Not in Use)	37,900
Chloride (mg/l)		182,000		156,000
NH4 as N (mg/l)		0.5		0.5
NO3 & NO2 as N (mg/l)		N/D		0.2
TDS (mg/l)		362,000		285,000
Conductivity		244,000		228,000
pH		8.3		8.0
Zinc (mg/l)		ND		N/D
Uranium (mg/l)		9.04		10.8
Radium 226 (pCi/l)		264 ± 4.4		473 ± 5.9

Pond ID #	IR-E	IR-RA	IR-RB	CR-P1perm.
Sulfate (mg/l)	Unlined (Not in Use)	18,400	27,600	22
Chloride (mg/l)		33,500	39,600	48
NH4 as N (mg/l)		0.1	0.1	ND
NO3 & NO2 as N (mg/l)		0.2	0.3	ND
TDS (mg/l)		83,400	111,000	170
Conductivity		104,000	122,000	314
pH		8.1	8.5	9.3
Zinc (mg/l)		ND	ND	ND
Uranium (mg/l)		139	10.7	0.05
Radium 226 (pCi/l)		142 ± 3.3	56.3 ± 2.0	0.6 ± 0.2

Pond ID #	CR-1	CR-2	CR-3	CR-4
Sulfate (mg/l)	618	4,860	5,440	5,550
Chloride (mg/l)	606	2,240	4,090	16,200
NH4 as N (mg/l)	ND	ND	0.1	ND
NO3 & NO2 as N (mg/l)	ND	ND	ND	ND
TDS (mg/l)	3,260	14,000	16,400	37,100
Conductivity	5,470	17,900	23,100	53,500
pH	9.5	9.5	9.2	9.1
Zinc (mg/l)	ND	ND	ND	ND
Uranium (mg/l)	4.01	6.88	5.3	10.8
Radium 226 (pCi/l)	59.7 ± 2.2	19.9 ± 1.4	28.4 ± 1.4	37.4 ± 1.7

Table 4
Page 2 of 4
Uranium One USA, Inc. - Willow Creek Project
2015 - 2016 WDEQ Annual Report
Evaporation Pond Monitoring
Sample Date: 12/09/2015 (4th Quarter 2015)

Pond ID #	IR-A	IR-B	IR-C	IR-D
Sulfate (mg/l)	Unlined (Not in Use)	10,500	Unlined (Not in Use)	8,620
Chloride (mg/l)		202,000		178,000
NH4 as N (mg/l)		0.6		0.7
NO3 & NO2 as N (mg/l)		ND		ND
TDS (mg/l)		337,000		298,000
Conductivity		142,000		136,000
pH		8.3		8.3
Zinc (mg/l)		ND		N/D
Uranium (mg/l)		14.1		4.97
Radium 226 (pCi/l)		3.5 ± 0.6		19.5 ± 0.8

Pond ID #	IR-E	IR-RA	IR-RB	CR-P1perm.
Sulfate (mg/l)	Unlined (Not in Use)	9,690	12,700	7
Chloride (mg/l)		35,000	42,800	17
NH4 as N (mg/l)		0.1	0.9	ND
NO3 & NO2 as N (mg/l)		ND	ND	ND
TDS (mg/l)		80,700	95,400	280
Conductivity		73,400	83,700	505
pH		8.1	8.7	8.5
Zinc (mg/l)		N/D	ND	ND
Uranium (mg/l)		70.4	92.4	ND
Radium 226 (pCi/l)		39.7 ± 0.7	2270 ± 5.1	0.3 ± 0.1

Pond ID #	CR-1	CR-2	CR-3	CR-4
Sulfate (mg/l)	682	2,670	4,600	6,250
Chloride (mg/l)	625	1,410	3,410	20,200
NH4 as N (mg/l)	ND	2.3	0.3	0.2
NO3 & NO2 as N (mg/l)	ND	ND	ND	ND
TDS (mg/l)	3,540	8,520	15,400	44,800
Conductivity	5,000	10,100	16,600	46,300
pH	9.3	9.5	9.3	9.1
Zinc (mg/l)	ND	ND	ND	ND
Uranium (mg/l)	5.04	5.39	5.96	32
Radium 226 (pCi/l)	55.1 ± 0.8	10.1 ± 0.5	19.6 ± 0.5	43.2 ± 0.8

Table 4
Page 3 of 4
Uranium One USA, Inc. - Willow Creek Project
2015 - 2016 WDEQ Annual Report
Evaporation Pond Monitoring
Sample Date: 02/24/2016 (1st Quarter 2016)

Pond ID #	IR-A	IR-B	IR-C	IR-D
Sulfate (mg/l)	Unlined (Not in Use)	12,400	Unlined (Not in Use)	10,600
Chloride (mg/l)		193,000		175,000
NH4 as N (mg/l)		1.4		1.8
NO3 & NO2 as N (mg/l)		0.1		0.2
TDS (mg/l)		321,000		282,000
Conductivity		80,700		76,400
pH		8.2		8.3
Zinc (mg/l)		ND		ND
Uranium (mg/l)		57.1		5.5
Radium 226 (pCi/l)		477 ± 11.5		456 ± 12.6

Pond ID #	IR-E	IR-RA	IR-RB	CR-P1 perm
Sulfate (mg/l)	Unlined (Not in Use)	9,270	12,100	6
Chloride (mg/l)		39,400	49,000	18
NH4 as N (mg/l)		0.2	0.7	N/D
NO3 & NO2 as N (mg/l)		0.1	0.2	N/D
TDS (mg/l)		74,100	90,200	250
Conductivity		47,900	54,300	443
pH		8.4	8.7	8.5
Zinc (mg/l)		ND	ND	N/D
Uranium (mg/l)		52.6	92.1	ND
Radium 226 (pCi/l)		78.6 ± 2.0	37.4 ± 1.5	0.7 ± 0.1

Pond ID #	CR-1	CR-2	CR-3	CR-4
Sulfate (mg/l)	514	2,750	2,730	6,160
Chloride (mg/l)	374	1,510	1,970	18,900
NH4 as N (mg/l)	ND	2.6	0.1	0.3
NO3 & NO2 as N (mg/l)	ND	0.1	ND	ND
TDS (mg/l)	2,400	8,480	9,420	41,100
Conductivity	3,380	9,040	9,880	31,800
pH	8.7	9.2	9	9.1
Zinc (mg/l)	ND	ND	ND	ND
Uranium (mg/l)	2.87	6.45	4.63	23.1
Radium 226 (pCi/l)	47.6 ± 0.8	10.0 ± 0.5	30.2 ± 0.8	40.0 ± 0.8

Table 4
Page 4 of 4
Uranium One USA, Inc. - Willow Creek Project
2015 - 2016 WDEQ Annual Report
Evaporation Pond Monitoring
Sample Date: 05/25/2016 (2nd Quarter 2016)

Pond ID #	IR-A	IR-B	IR-C	IR-D
Sulfate (mg/l)	Unlined (Not in Use)	14,600	Unlined (Not in Use)	20,700
Chloride (mg/l)		144,000		112,000
NH4 as N (mg/l)		0.2		0.1
NO3 & NO2 as N (mg/l)		N/D		N/D
TDS (mg/l)		247,000		202,000
Conductivity		188,000		172,000
pH		8.3		8.3
Zinc (mg/l)		N/D		N/D
Uranium (mg/l)		31.2		1.72
Radium 226 (pCi/l)		11.1 ± 0.7		3.2 ± 0.6

Pond ID #	IR-E	IR-RA	IR-RB	CR-P1perm.
Sulfate (mg/l)	Unlined (Not in Use)	9,830	14,100	12
Chloride (mg/l)		27,300	38,700	18
NH4 as N (mg/l)		ND	ND	ND
NO3 & NO2 as N (mg/l)		0.9	ND	ND
TDS (mg/l)		60,100	82,700	270
Conductivity		72,900	93,700	466
pH		7.4	8.8	8.7
Zinc (mg/l)		ND	ND	ND
Uranium (mg/l)		22.2	83.1	ND
Radium 226 (pCi/l)		95.6 ± 1.3	45.8 ± 1.7	0.3 ± 0.1

Pond ID #	CR-1	CR-2	CR-3	CR-4
Sulfate (mg/l)	509	2,710	3,200	6,100
Chloride (mg/l)	373	1,390	2,480	20,000
NH4 as N (mg/l)	ND	ND	0.2	ND
NO3 & NO2 as N (mg/l)	ND	ND	ND	ND
TDS (mg/l)	2,310	7,980	10,800	40,300
Conductivity	3,500	10,300	14,000	52,200
pH	8.8	9.8	9.1	9.2
Zinc (mg/l)	ND	ND	ND	ND
Uranium (mg/l)	4.23	6.26	4.67	30.1
Radium 226 (pCi/l)	5.0 ± 0.3	13.9 ± 0.6	13.4 ± 0.5	26.1 ± 0.7

Appendix 1
Table 5
Uranium One USA, Inc. - Willow Creek Project
2015-2016 WDEQ Annual Report

ABANDONED DRILL SITE REPORT
Date of Report August 15, 2016
For the Year of 2015-2016

Reporting Organization Uranium One USA, Inc.
907 N. Poplar St. Suite 260
Casper, WY 82601
(307) 234-8235

CN# _____ DN# _____
LE# _____ R&D# _____

Mineral Commoidty Uranium

Hole No.	Date Drilled	Date Abandoned	Location nearest 40 acre subdivision						Land Status	Total Depth	Artesian Flow GPM	How Surface Capped	Abandonment Procedure Remarks
			Township	Range	QQ Section	Northing (Ft.)	Easting (Ft.)	County					
10-808	1/24/2013	5/27/2016	45	77	NWSE 35	1153448	832036.55	Johnson	Private	482	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-86 (7BE68-2)	3/13/2013	6/2/2016	44	76	SWSW 3	1149219	855629.31	Campbell	Private	582	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-91	5/20/2010	6/2/2016	44	76	NWSW 3	1149493	855638	Campbell	Private	575	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-74B	10/7/2010	6/2/2016	44	76	SWSW 3	1148850	855900	Campbell	Private	562	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-94	6/7/2010	6/7/2016	44	76	NWSW 3	1149601	855723	Campbell	Private	570	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-106 (7BB57-1)	11/11/1997	6/7/2016	44	76	NESE 4	1149727	855331.37	Campbell	Private	565	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-99 (7BC59-2)	11/25/1997	6/7/2016	44	76	NESE 4	1149662	855479	Campbell	Private	565	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-107	6/8/2010	6/7/2016	44	76	NESE 4	1149603	855281	Campbell	Private	560	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-163	1/20/1998	6/7/2016	44	76	NESE 4	1149389	854847.13	Campbell	Private	461	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7AU59-1	11/13/1997	6/7/2016	44	76	NESE 4	1149630	854675.69	Campbell	Private	400	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
6AT-58-1	5/2/1996	6/7/2016	44	76	NESE 4	1149699	854545.38	Campbell	Private	460	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-181	7/1/2010	6/8/2016	44	76	SESE 4	1149265	854729	Campbell	Private	477	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-158	6/28/2010	6/8/2016	44	76	SESE 4	1149177	854873	Campbell	Private	481	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7P-72	11/17/1997	6/8/2016	44	76	NESE 4	1149689	854868.38	Campbell	Private	430	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-187	11/18/1997	6/8/2016	44	76	NESE 4	1149715	854624.88	Campbell	Private	452	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-404	10/22/2010	6/13/2016	44	76	NESE 4	1149490	854520	Campbell	Private	453	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7P-48	6/25/2010	6/13/2016	44	76	NESE 4	1149622	855158	Campbell	Private	562	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7P-70	7/1/2010	6/15/2016	44	76	NESE 4	1149502	854880	Campbell	Private	430	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-165	11/25/1997	6/15/2016	44	76	NESE 4	1149462	854833.19	Campbell	Private	445	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-8	8/2/2010	6/21/2016	44	76	SESE 9	1148609	854820.88	Campbell	Private	602	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-9	8/12/2010	6/21/2016	44	76	SESE 9	1148591	854888	Campbell	Private	602	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-17	5/27/1998	6/21/2016	44	76	SESE 9	1148425	855010.81	Campbell	Private	568	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-28	7/30/2010	6/21/2016	44	76	SESE 9	1148189	854903	Campbell	Private	580	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-132	7/22/2010	6/21/2016	44	76	SESE 9	1148370	854692	Campbell	Private	569	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-231	8/27/2010	6/23/2016	44	76	NESE 4	1149810	854484.88	Campbell	Private	437	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-171	7/7/2010	6/23/2016	44	76	NESE 4	1149881	854678	Campbell	Private	445	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-260	9/7/2010	6/23/2016	44	76	SENE 9	1146358	854732	Campbell	Private	440	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-278	9/16/2010	6/27/2016	44	76	SENE 9	1145631	854624.88	Campbell	Private	630	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-313	3/8/2011	6/27/2016	44	76	NESE 9	1145353	854510	Campbell	Private	519	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7AT61-1	11/19/1997	6/27/2016	44	76	NESE 4	1149574	854510	Campbell	Private	432	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-310	9/22/2010	6/27/2016	44	76	NESE 9	1145463	854599	Campbell	Private	533	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7P-121	9/9/2010	6/27/2016	44	76	SENE 9	1146200	854661	Campbell	Private	638	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-185	7/2/2010	6/27/2016	44	76	NESE 4	1149605	854654	Campbell	Private	453	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-47	12/20/2010	6/28/2016	44	76	NENE 9	1147558	854483	Campbell	Private	595	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7P-16	1/24/2011	6/28/2016	44	76	NENE 9	1147922	854580	Campbell	Private	578	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-277	9/14/2010	6/28/2016	44	76	SENE 9	1145719	854665.88	Campbell	Private	680	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-411	6/24/2011	6/28/2016	44	76	NESE 9	1145360	854685	Campbell	Private	543	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-280	9/15/2010	6/28/2016	44	76	NESE 9	1145418	854657.88	Campbell	Private	657	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.
7I-183	3/6/1997	6/28/2016	44	76	NESE 4	1149430	854693.31	Campbell	Private	432	None	Done at a later date	Well plugged. Surface abandonment will be at a later date.

Appendix 2

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
2AA27-1	1992-07-17 0(	842664.3125	1148507	4609.660156	400	I	260	263	
2AA28-1	1992-07-08 0(	842706.625	1148549	4612.830078	380	I	344	350	
2AA28-2	1992-08-07 0(	842712.3125	1148550	4613.459961	360	R	262	268	
2AA29-1	1992-07-09 0(	842664.375	1148592	4613.609863	380	I	318	323	
2AA30-1	1992-07-22 0(	842705.625	1148638	4617.830078	400	R	353	359	
2AA30-2	1992-08-17 0(	842729.6875	1148638	4617.629883	400	R	295	301	
2AA31-1	1992-08-10 0(	842664.1875	1148676	4617.75	400	I	276	284	
2AA32-1	1992-07-20 0(	842706.8125	1148718	4620.330078	400	I	361	371	
2AA32-2	1992-08-10 0(	842701.875	1148718	4619.77002	320	R	279	285	
2AA33-1	1992-07-10 0(	842664.125	1148762	4619.72998	400	I	357	370	
2AA33-2	1992-08-12 0(	842669.125	1148761	4619.319824	340	I	277	297	
2AA35-1	1992-07-22 0(	842663.625	1148847	4620.720215	400	R	356	367	
2AA37-1	1992-07-27 0(	842664.375	1148932	4623.189941	400	I	355	365	
2AA39-2	1992-09-17 0(	842620.6875	1149017	4612.640137	370	I	330	337	
2AA41-1	1992-09-10 0(	842630.8125	1149107	4593.22998	380	I	328	347	
2AB23-2	1992-08-05 0(	842755.875	1148337	4621.799805	400	I	372	380	
2AB24-1	1992-07-16 0(	842791.125	1148378	4621.319824	400	R	336	348	
2AB24-2	1992-08-06 0(	842797.875	1148386	4620.930176	340	R	290	294	
2AB25-1	1992-07-16 0(	842748.875	1148422	4616.890137	400	I	360	365	
2AB25-2	1992-08-06 0(	842753.875	1148422	4616.740234	340	I	290	296	
2AB26-1	1992-07-20 0(	842795.125	1148463	4613.790039	400	I	330	334	
2AB26-2	1992-08-07 0(	842790.375	1148464	4613.959961	360	I	273	283	
2AB27-1	1992-07-17 0(	842749.6875	1148509	4614.600098	400	I	345	360	
2AB27-2	1992-08-07 0(	842754.875	1148509	4615.359863	360	I	260	267	
2AB28-1	1992-07-31 0(	842790.625	1148550	4617.830078	400	I	343	350	
2AB29-2	1992-08-07 0(	842724.8125	1148593	4615.669922	400	I	353	360	
2AB29-3	1992-09-23 0(	842744.875	1148592	4618.180176	380	I	294	299	
2AB31-1	1992-08-20 0(	842719	1148677	4619.459961	400	I	361	369	
2AC23-1	1992-07-15 0(	842834.125	1148337	4623.319824	400	I	337	340	
2AC23-2	1992-08-06 0(	842803.625	1148336	4623.649902	380	I	321	333	
2AC24-1	1992-07-13 0(	842876.3125	1148380	4620.25	400	R	344	356	
2AC25-1	1992-07-17 0(	842833.8125	1148422	4617.870117	400	I	342	350	
2AC26-1	1992-07-22 0(	842877.5	1148467	4617.649902	400	R	341	351	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
2AC27-1	1992-07-27 0(	842833.8125	1148507	4618.080078	400	I	345	357	
2AC28-2	1992-09-23 0(	842873.1875	1148551	4621.450195	400	I	352	358	
2AC29-1	1992-07-27 0(	842833.375	1148592	4621.589844	400	I	356	364	
2AC30-1	1992-07-23 0(	842876.3125	1148636	4623.890137	400	R	357	372	
2AD24-1	1992-07-16 0(	842963.8125	1148379	4620.390137	400	R	352	367	
2AD25-1	1992-07-16 0(	842918.375	1148422	4617.580078	400	I	339	343	
2AD26-1	1992-07-07 0(	842961	1148465	4622.77002	420	R	358	368	
2AD27-1	1992-07-22 0(	842919.625	1148507	4620.180176	400	I	337	346	
2AD28-1	1992-07-22 0(	842957.5	1148549	4622.120117	400	I	343	350	
2AD29-1	1992-07-14 0(	842919.8125	1148592	4626.180176	420	R	368	378	
2AD30-1	1992-08-20 0(	842960.625	1148635	4626.990234	400	I	366	379	
2AD31-1	1992-07-28 0(	842916.3125	1148677	4625.169922	400	I	372	379	
2AD32-1	1992-07-30 0(	842960.875	1148721	4626.910156	420	R	378	387	
2AD34-1	1992-07-29 0(	842962	1148805	4628.720215	420	R	386	394	
2AE10-1	1992-07-08 0(	843047.5	1147788	4619.839844	400	I	356	366	
2AE12-2	1992-07-16 0(	843038.875	1147842	4629.839844	400	I	355	374	
2AE13-3	1992-07-16 0(	843023	1147912	4628.25	400	R	355	361	
2AE16-1	1992-06-29 0(	843046.6875	1148040	4628.790039	400	R	357	366	
2AE18-3	1992-07-28 0(	843091.1875	1148125	4630.959961	400	R	355	363	
2AE23-1	1992-07-15 0(	843004.375	1148337	4623.839844	400	I	353	370	
2AE24-1	1992-07-16 0(	843046.8125	1148381	4625.109863	400	R	355	370	
2AE26-1	1992-08-03 0(	843046.375	1148463	4626.759766	400	R	338	345	
2AE27-2	1992-09-23 0(	843008.125	1148508	4627.52002	400	I	341	361	
2AE28-2	1992-09-23 0(	843048.125	1148544	4628.669922	400	R	337	342	
2AE29-1	1992-07-28 0(	843004.3125	1148593	4625.600098	400	I	356	359	
2AE30-1	1992-08-03 0(	843046.625	1148635	4628.779785	420	BL	370	377	
2AE31-1	1992-07-27 0(	843003.3125	1148676	4628.779785	400	I	372	375	
2AE32-1	1992-08-04 0(	843045.375	1148719	4630.620117	420	R	382	394	
2AE33-1	1992-07-22 0(	843003.625	1148762	4629.240234	400	I	384	394	
2AE34-1	1992-07-29 0(	843046.625	1148807	4630.75	420	R	390	399	
2AE35-1	1992-07-29 0(	843004.375	1148849	4630.709961	420	I	388	394	1
2AE36-1	1992-08-04 0(	843045.625	1148890	4632.290039	420	I	395	400	
2AF11-1	1992-07-13 0(	843088.375	1147852	4630.390137	400	R	346	367	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
2AF15-1	1992-07-15 0(	843051.6875	1147996	4629.470215	400	I	353	368	
2AF17-2	1992-07-15 0(	843056.875	1148081	4630.350098	400	I	361	365	
2AF19-1	1992-07-14 0(	843088.8125	1148168	4629.649902	400	I	362	370	
2AF20-1	1992-07-14 0(	843130.3125	1148210	4628.839844	400	R	360	368	
2AF22-1	1992-07-16 0(	843131	1148296	4627.540039	400	R	362	368	
2AF23-2	1992-08-27 0(	843092.6875	1148333	4626.330078	400	I	358	369	
2AF25-1	1992-07-16 0(	843088.5	1148422	4627.569824	400	I	353	355	
2AF26-1	1992-07-20 0(	843132.625	1148463	4630.049805	400	R	347	351	
2AF27-1	1992-07-28 0(	843089.625	1148507	4629.850098	400	I	343	347	
2AF28-1	1992-07-22 0(	843131.375	1148551	4631.52002	400	R	366	371	
2AF29-2	1992-09-23 0(	843087.1875	1148594	4630.089844	400	I	366	372	
2AF30-3	1992-10-19 0(	843128.875	1148632	4630.77002	420	I	367	375	
2AF31-3	1992-10-02 0(	843093.625	1148680	4630.939941	420	I	376	378	
2AF33-1	1992-07-29 0(	843088.8125	1148762	4631.790039	420	I	381	393	
2AF34-1	1992-07-15 0(	843132.125	1148804	4632.850098	420	R	387	403	
2AF35-2	1992-08-20 0(	843110.1875	1148847	4633.060059	420	I	394	402	
2AF36-2	1992-08-21 0(	843131.5	1148869	4634.109863	420	R	395	401	
2AG21-2	1992-07-22 0(	843148.8125	1148253	4628.47998	400	I	362	368	
2AG24-2	1992-08-04 0(	843211.8125	1148402	4631.089844	400	R	366	373	
2AG25-1	1992-07-28 0(	843173.8125	1148422	4630.629883	400	I	366	372	
2AG26-1	1992-07-17 0(	843215.625	1148464	4632.339844	400	R	360	367	
2AG27-1	1992-07-08 0(	843173.875	1148507	4631.209961	420	I	354	360	
2AG28-1	1992-08-26 0(	843216.375	1148550	4633.049805	400	I	360	366	
2AG29-1	1992-07-23 0(	843175	1148593	4632.720215	400	I	359	363	
2AG30-1	1992-07-28 0(	843217.1875	1148636	4633.669922	420	I	362	374	
2AG31-1	1992-07-07 0(	843173.8125	1148677	4632.419922	400	R	359	380	
2AG32-1	1992-07-28 0(	843217.3125	1148720	4634.060059	420	I	366	373	
2AG33-1	1992-07-23 0(	843173.625	1148762	4633.890137	400	I	363	366	
2AG34-2	1992-08-21 0(	843193.8125	1148806	4634.75	420	R	378	382	
2AG35-1	1992-07-23 0(	843173.375	1148847	4634.549805	400	I	377	384	
2AH25-1	1992-07-30 0(	843257.875	1148422	4632.52002	400	I	365	371	
2AH26-1	1992-08-03 0(	843301.125	1148465	4633.810059	420	R	352	358	
2AH27-1	1992-07-23 0(	843259.625	1148506	4633.779785	400	I	357	359	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
2AH28-1	1992-07-29 0(	843301.125	1148551	4635.209961	400	R	370	375	
2AH30-1	1992-07-28 0(	843302.125	1148633	4635.890137	420	R	374	389	
2AH31-1	1992-07-30 0(	843258.375	1148677	4634.950195	420	I	376	387	
2AH32-1	1992-08-03 0(	843300.375	1148721	4636.160156	420	R	377	392	
2AH33-1	1992-07-30 0(	843258.8125	1148762	4635.649902	420	I	375	393	
2AH34-1	1992-08-03 0(	843300	1148806	4637.279785	420	R	390	395	
2AI27-1	1992-08-03 0(	843343.3125	1148507	4635.240234	420	I	366	380	
2AI28-1	1992-07-29 0(	843385.875	1148549	4637.069824	421	R	366	375	
2AI29-2	1992-09-28 0(	843343.625	1148596	4636.359863	420	I	368	381	
2AI30-1	1992-07-07 0(	843385.125	1148635	4637.839844	420	R	368	383	
2AI31-1	1992-07-31 0(	843343.125	1148677	4637.459961	420	I	366	374	
2AI32-1	1992-08-03 0(	843386.3125	1148720	4638.990234	420	I	377	383	
2AI33-1	1992-08-25 0(	843344.125	1148762	4637.859863	420	I	380	385	
2AJ29-1	1992-07-29 0(	843428.3125	1148591	4638.689941	420	I	366	382	
2AJ31-1	1992-07-30 0(	843428.375	1148677	4639.649902	420	I	368	377	
2G6S-1	1992-09-28 0(	841007	1147104	4664.529785	360	R	307	314	
2H2S-1	1992-09-30 0(	841091.5	1147275	4660.870117	360	R	297	303	
2H3S-2	1993-01-18 0(	841085.875	1147233	4663.439941	360	I	299	308	
2H4S-1	1992-09-09 0(	841092.3125	1147190	4663.200195	340	R	305	317	
2H5S-2	1993-01-18 0(	841048.8125	1147120	4665.959961	360	I	307	319	
2H6S-1	1992-09-21 0(	841093.125	1147105	4662.640137	340	R	304	315	
2H7S-2	1993-02-04 0(	841045.625	1147063	4660.970215	360	I	298	304	
2H8S-2	1993-01-18 0(	841064.875	1147016	4658.169922	360	R	300	303	
2I3S-1	1992-09-30 0(	841132.875	1147233	4658.22998	360	I	291	297	
2I5S-1	1992-09-17 0(	841134.625	1147148	4658.959961	360	I	300	309	
2I6S-1	1992-09-24 0(	841176.875	1147106	4654.830078	360	I	325	332	
2I7S-1	1992-09-22 0(	841134.3125	1147062	4658.779785	360	R	321	339	
2K8S-1	1993-01-19 0(	841339	1147017	4633.529785	360	R	277	288	
2P108-1	1992-12-21 0(	841769.125	1151947	4643.560059	440	I	395	400	
2P109-1	1992-12-22 0(	841729.1875	1151991	4640.839844	440	I	382	395	
2P110-1	1992-12-16 0(	841770.6875	1152032	4644.720215	440	I	391	399	
2P111-1	1992-12-23 0(	841728.375	1152077	4639.819824	440	R	380	388	
2P114-1	1992-12-23 0(	841771	1152204	4641.620117	440	I	383	390	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
2P115-1	1993-01-07 0(	841729.3125	1152247	4642.819824	440	I	382	387	
2Q109-1	1992-12-14 0(	841813.125	1151991	4648.720215	440	I	394	401	
2Q110-1	1992-12-10 0(	841854.375	1152035	4651.819824	440	R	396	402	
2Q112-1	1992-12-16 0(	841855.375	1152119	4645.629883	440	R	393	398	
2Q113-1	1992-12-14 0(	841813.625	1152162	4643.060059	430	I	393	400	
2R100-1	1993-01-11 0(	841940.375	1151608	4657.689941	440	I	418	424	
2R102-3	1993-01-08 0(	841918.375	1151667	4659.640137	460	I	416	428	
2R103-1	1993-01-04 0(	841900.3125	1151740	4658.72998	440	I	418	425	
2R104-2	1992-12-29 0(	841920.1875	1151779	4659.959961	460	I	425	432	
2R105-1	1992-12-07 0(	841897.6875	1151822	4656.240234	460	I	414	430	
2R106-1	1992-12-02 0(	841941.1875	1151864	4654.870117	460	R	419	430	
2R107-2	1992-12-29 0(	841878.5	1151906	4647.879883	440	R			
2R107-3	1993-01-28 0(	841891	1151908	4649.830078	440	I	407	414	
2R110-1	1992-12-10 0(	841941.875	1152033	4656.330078	440	I			
2R110-2	1993-01-08 0(	841923	1152034	4654.359863	440	R	420	428	
2R111-1	1992-12-16 0(	841897.875	1152076	4651.029785	440	I	398	403	
2R112-2	1992-12-28 0(	841919.8125	1152118	4649.029785	440	I	401	406	
2R114-1	1992-11-04 0(	841937.875	1152205	4650.100098	460	R	380	390	
2R115-1	1992-12-15 0(	841899.125	1152246	4647.709961	430	I	396	403	
2R94-1	1992-11-13 0(	841940.8125	1151354	4661.97998	460	I	421	433	
2S100-2	1992-11-16 0(	842022.8125	1151614	4660.779785	460	I	399	416	
2S101-1	1992-11-20 0(	841980.8125	1151653	4662.129883	450	I	413	420	
2S106-2	1993-01-08 0(	841998.125	1151865	4656.259766	420	BL	365	371	
2S108-2	1992-12-15 0(	842049.625	1151945	4657.410156	440	I	379	387	
2S109-1	1992-12-09 0(	841983	1151991	4658.140137	440	R	369	375	
2S112-1	1992-12-11 0(	842023.625	1152120	4658.540039	440	R	381	387	
2S114-3	1993-01-07 0(	841995.1875	1152204	4654.350098	420	I	369	376	
2S54-1	1992-09-14 0(	842026.5	1149655	4590.759766	300	R	258	263	
2S86-3	1993-01-05 0(	842050.8125	1150996	4673.240234	460	I	420	430	
2S87-2	1992-12-21 0(	841973.3125	1151042	4668.100098	460	R	426	445	
2S88-1	1992-10-20 0(	842017.5	1151092	4671.240234	460	I	397	402	
2S90-1	1992-10-20 0(	842026.1875	1151185	4668.600098	460	R			
2S91-1	1992-10-20 0(	841983.5	1151226	4665.720215	460	R	427	434	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
2S93-1	1992-11-09 0(	841981.375	1151314	4665.950195	460	I	426	432	
2S94-1	1992-11-02 0(	842026.5	1151355	4669.689941	460	I	424	433	
2S99-1	1992-11-20 0(	841984.3125	1151568	4655.799805	450	R	412	417	
2T105-2	1992-12-15 0(	842046.8125	1151822	4662.160156	440	I	375	386	
2T46-1	1992-08-24 0(	842110.6875	1149315	4610.649902	400	I	262	267	
2T47-1	1992-09-17 0(	842069.8125	1149356	4612.259766	320	I	275	291	
2T48-3	1992-11-11 0(	842131.625	1149404	4620.120117	320	I	271	299	
2T50-3	1992-10-07 0(	842099.125	1149482	4619.580078	320	R	282	291	
2T51-1	1992-09-18 0(	842069.6875	1149526	4617.27002	320	I	281	288	
2T52-1	1992-09-16 0(	842112.625	1149569	4620.580078	340	I	281	284	
2T53-2	1992-10-01 0(	842103.6875	1149615	4611.509766	320	I	272	276	
2T54-1	1992-09-14 0(	842108.3125	1149657	4602.810059	300	I	263	278	
2T55-1	1992-08-31 0(	842069.125	1149697	4593.490234	300	I	258	264	
2T56-1	1992-08-31 0(	842110.8125	1149740	4596.52002	300	I	247	268	
2T57-1	1992-09-14 0(	842048.625	1149782	4625.879883	320	I	287	300	
2T84-2	1992-11-20 0(	842149.1875	1150901	4675.450195	460	I	435	440	
2T85-2	1992-12-01 0(	842108.6875	1150942	4673.319824	460	R	413	421	
2T86-2	1992-11-05 0(	842092.625	1150993	4673.72998	460	R	398	408	
2T87-1	1992-10-16 0(	842067.5	1151043	4673.560059	480	R	399	412	
2T88-2	1992-11-09 0(	842098.5	1151094	4674.080078	440	R	392	410	
2T89-2	1993-01-04 0(	842068.375	1151138	4671.410156	440	I	387	391	
2T90-2	1992-12-04 0(	842090.8125	1151184	4672.129883	460	I	390	401	
2T91-1	1992-10-22 0(	842067.375	1151226	4670.779785	460	I	398	405	
2T92-2	1992-11-04 0(	842097.6875	1151269	4672.25	440	R	391	402	
2T93-1	1992-11-09 0(	842068.875	1151311	4672.299805	450	I	405	410	
2T94-1	1992-11-02 0(	842112.875	1151355	4674.620117	450	R	402	417	
2T95-1	1992-11-05 0(	842067.3125	1151397	4671.22998	460	R	406	409	
2T97-2	1993-01-05 0(	842042.3125	1151480	4662.259766	460	I	390	405	
2T98-1	1992-12-03 0(	842109.625	1151523	4664.089844	440	I	394	403	
2T99-1	1992-12-01 0(	842068.625	1151567	4658.180176	440	R	388	393	
2U100-1	1992-12-10 0(	842196.8125	1151606	4668.97998	440	I	390	397	
2U37-2	1992-08-21 0(	842185.3125	1148935	4576.709961	280	I	236	242	
2U38-1	1992-07-31 0(	842196.125	1148975	4577.160156	300	I	241	253	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
2U39-1	1992-08-11 0(	842154.6875	1149018	4577.399902	300	I	231	241	
2U40-1	1992-08-14 0(	842196.5	1149060	4588.549805	300	R	238	247	
2U41-1	1992-09-11 0(	842153.8125	1149102	4596.899902	300	I	249	270	
2U42-1	1992-08-24 0(	842196.125	1149145	4606.069824	320	I	250	255	
2U43-1	1992-08-24 0(	842153.8125	1149187	4608.169922	320	R	256	264	
2U47-1	1992-09-29 0(	842154.875	1149357	4619.52002	320	I	268	274	
2U48-1	1992-09-29 0(	842195.375	1149399	4624.419922	320	R	270	276	
2U49-1	1992-09-23 0(	842154.375	1149443	4623.649902	320	I	297	302	
2U51-1	1992-09-16 0(	842152.625	1149525	4624.870117	320	I	278	291	
2U52-1	1992-08-27 0(	842196.375	1149569	4628.899902	420	I	293	308	
2U53-1	1992-11-17 0(	842156.6875	1149610	4624.169922	296	I	283	296	
2U54-1	1992-09-10 0(	842198	1149653	4629.5	320	R	283	293	
2U55-1	1992-08-27 0(	842171.3125	1149696	4623.580078	320	I	283	295	
2U56-1	1992-08-27 0(	842196.3125	1149739	4623.709961	400	R	275	296	
2U57-1	1992-08-31 0(	842154.125	1149782	4597.919922	300	I	247	262	
2U58-1	1992-09-22 0(	842196.3125	1149826	4602.049805	320	R	264	280	
2U59-1	1992-11-30 0(	842179.8125	1149867	4602.259766	320	I	268	280	
2U60-1	1992-10-08 0(	842196.375	1149909	4602.52002	300	I	260	278	
2U61-2	1992-12-08 0(	842180.8125	1149948	4606.97998	320	I	270	282	
2U62-1	1992-11-04 0(	842197.3125	1149994	4606.359863	300	R	265	280	
2U80-1	1992-10-14 0(	842192.3125	1150759	4671.430176	500	R	387	391	
2U81-1	1992-10-14 0(	842153.3125	1150801	4672.22998	500	R	396	400	
2U84-1	1992-10-14 0(	842218.625	1150892	4678.549805	480	I	405	409	
2U85-1	1992-10-15 0(	842168.875	1150942	4677.069824	480	I	397	405	
2U86-1	1992-11-04 0(	842220.1875	1150993	4682.649902	480	I	410	419	
2U87-1	1992-11-05 0(	842168.3125	1151044	4678.540039	480	I	397	417	
2U88-1	1992-10-19 0(	842217.875	1151092	4681.879883	480	I	431	436	
2U89-2	1992-11-11 0(	842144	1151140	4675.720215	460	I	393	401	
2U93-2	1992-12-16 0(	842129.875	1151312	4674.75	440	I	398	412	
2U95-2	1992-11-30 0(	842132.875	1151397	4673.140137	440	I	402	415	
2U96-2	1993-01-05 0(	842176.375	1151440	4673.279785	440	R	395	405	
2U97-2	1992-12-23 0(	842177.125	1151483	4670.959961	420	I	391	407	
2U98-1	1992-12-01 0(	842195.8125	1151525	4668.339844	440	R	385	392	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
2U99-1	1992-12-17 0(	842193.3125	1151566	4663.540039	420	I	382	388	
2V39-1	1992-08-19 0(	842236.6875	1149020	4583.910156	300	I	260	271	
2V48-1	1992-09-17 0(	842281.625	1149400	4627.060059	340	I	269	275	
2V50-1	1992-09-23 0(	842280.5	1149482	4629.430176	340	R	285	303	
2V53-1	1992-09-11 0(	842239.125	1149612	4631.890137	320	I	287	299	
2V55-1	1992-09-10 0(	842238.625	1149697	4631.910156	320	I	290	300	
2V56-1	1992-08-20 0(	842281.8125	1149738	4633.540039	420	I	280	299	
2V57-1	1992-09-16 0(	842238.875	1149771	4625.450195	320	I	283	291	
2V58-1	1992-09-21 0(	842281.125	1149825	4611.790039	320	R	265	269	
2V59-1	1992-10-05 0(	842238.3125	1149866	4609.990234	320	I	263	266	
2V60-1	1992-10-08 0(	842290.875	1149907	4615.089844	320	I	270	275	
2V61-1	1992-10-22 0(	842230.8125	1149952	4610.779785	320	I	258	277	
2V83-1	1992-10-19 0(	842268.375	1150841	4675.870117	460	I	399	409	
2V84-1	1992-10-19 0(	842315.375	1150888	4678.009766	480	I	398	401	
2V85-1	1992-10-14 0(	842269.125	1150942	4684.049805	480	I	405	409	
2V86-1	1992-10-15 0(	842319.3125	1150993	4687.200195	480	R	412	443	
2V87-1	1992-10-19 0(	842268.625	1151042	4686.649902	480	I	409	422	
2V97-1	1992-12-03 0(	842238.1875	1151482	4673.77002	440	R			
2W47-1	1992-09-24 0(	842323.8125	1149358	4624.680176	340	R	278	296	
2W49-1	1992-09-15 0(	842323.5	1149442	4629.27002	340	I	275	288	
2W50-1	1992-08-20 0(	842364.625	1149484	4630.569824	420	R	264	269	
2W52-1	1992-09-11 0(	842366.375	1149570	4632.97998	340	R	264	271	
2W53-2	1992-09-16 0(	842338	1149624	4634.669922	340	I	285	291	
2W54-1	1992-09-08 0(	842369.6875	1149654	4637.430176	360	R	280	294	
2W55-2	1992-09-14 0(	842347.625	1149696	4637.069824	340	I	283	294	
2W56-1	1992-09-04 0(	842366.6875	1149740	4637.689941	330	R	290	310	
2W57-1	1992-09-16 0(	842327.5	1149778	4632.129883	320	I	280	288	
2W59-2	1992-12-07 0(	842296.625	1149869	4614.450195	320	I	270	280	
2W83-3	1992-12-15 0(	842382.375	1150865	4665.310059	440	I	388	397	
2W85-1	1992-10-26 0(	842368.3125	1150941	4674.220215	460	I	400	408	
2X50-1	1992-09-21 0(	842452.875	1149484	4614	320	R	233	256	
2X51-1	1992-09-15 0(	842408.875	1149525	4630.629883	320	I	264	275	
2X52-1	1992-09-11 0(	842453.875	1149569	4631.950195	340	I	254	266	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
2X53-1	1992-09-09 0(	842408.8125	1149612	4635.470215	340	I	260	270	
2X54-1	1992-08-19 0(	842451.875	1149654	4637.649902	430	BL	284	296	
2X55-1	1992-09-01 0(	842407.875	1149698	4638.919922	420	I	283	289	
2X56-1	1992-09-09 0(	842451.5	1149739	4641.209961	420	R	268	278	
2X60-1	1992-09-23 0(	842450.8125	1149909	4644.890137	420	R	367	369	
2X62-1	1992-09-24 0(	842450.5	1149995	4646.700195	420	R	366	371	
2X64-3	1992-10-23 0(	842461.375	1150079	4650.049805	420	R	374	380	
2X65-1	1992-12-08 0(	842408.3125	1150122	4649.990234	420	I	380	399	
2Y32-1	1992-07-20 0(	842536.875	1148719	4617.22998	400	I	260	269	
2Y34-1	1992-07-22 0(	842536.8125	1148806	4613.02002	400	I	265	271	
2Y36-1	1992-07-27 0(	842537.375	1148892	4616.279785	400	I	290	301	
2Y37-1	1992-07-31 0(	842492.625	1148932	4606.350098	400	I	258	261	
2Y38-1	1992-07-31 0(	842535.375	1148976	4605.859863	400	R	244	249	
2Y39-2	1992-10-21 0(	842501.3125	1149014	4593.540039	340	I	243	247	
2Y40-1	1992-08-28 0(	842537.8125	1149062	4589.390137	370	R	239	245	
2Y41-1	1992-09-03 0(	842493.1875	1149103	4586.140137	360	I	227	233	
2Y42-1	1992-09-08 0(	842530.3125	1149147	4591.129883	360	I	228	231	
2Y43-1	1992-09-22 0(	842495.3125	1149189	4609.970215	300	I	263	276	
2Y45-2	1992-09-15 0(	842523.3125	1149272	4623.890137	340	I	319	324	
2Y46-1	1992-08-19 0(	842535.8125	1149317	4627.919922	420	R	324	331	
2Y50-1	1992-12-08 0(	842538.625	1149485	4630.910156	300	R	250	262	
2Y51-2	1992-11-13 0(	842482	1149527	4612.97998	320	I	232	241	
2Y52-1	1992-09-15 0(	842539.125	1149568	4631.040039	420	I	354	357	
2Y52-2	1992-12-01 0(	842559.3125	1149572	4633.310059	280	I	256	263	
2Y53-2	1992-09-16 0(	842467.8125	1149613	4634.279785	400	I	257	264	
2Y54-1	1992-09-14 0(	842535.3125	1149655	4635.160156	420	R	347	353	
2Y56-1	1992-09-11 0(	842536	1149738	4642.02002	420	R	371	382	
2Y56-2	1992-10-07 0(	842560.625	1149737	4640.839844	420	R	260	269	
2Y57-1	1992-09-22 0(	842528.875	1149781	4643.939941	420	I	373	385	
2Y57-2	1992-09-24 0(	842495.1875	1149782	4643.52002	420	I	272	277	
2Y58-2	1992-10-01 0(	842508.6875	1149823	4645.060059	420	R	369	382	
2Y59-1	1992-09-29 0(	842492.875	1149867	4645.959961	420	I	368	374	
2Y61-1	1992-10-02 0(	842469.3125	1149953	4646.839844	420	I	372	380	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
2Y63-2	1992-10-07 0(	842467.8125	1150035	4648.959961	420	I	371	384	
2Y65-2	1992-10-07 0(	842468.6875	1150123	4652.089844	420	I	376	381	
2Z31-1	1992-07-17 0(	842578.875	1148676	4616.390137	400	I	297	301	
2Z33-1	1992-07-13 0(	842578.6875	1148762	4616.220215	400	I	267	272	
2Z34-1	1992-07-10 0(	842620.8125	1148804	4617.560059	400	I	267	299	
2Z34-2	1992-08-10 0(	842620.875	1148804	4617.169922	400	I	342	345	
2Z35-1	1992-07-22 0(	842579.375	1148847	4616.620117	400	BL	270	283	
2Z36-1	1992-07-24 0(	842621.5	1148890	4620.339844	400	I	347	353	
2Z37-1	1992-07-27 0(	842579.1875	1148932	4619.439941	400	I	354	357	
2Z38-1	1992-07-31 0(	842621.8125	1148975	4619.049805	400	R	342	345	
2Z39-2	1992-09-17 0(	842555.6875	1149020	4602.669922	300	I	243	255	
2Z40-1	1992-09-08 0(	842621.3125	1149059	4609.02002	400	I	327	337	
2Z41-3	1992-10-20 0(	842538.1875	1149102	4584.72998	280	I	224	232	
2Z42-1	1992-08-28 0(	842620.8125	1149143	4587.549805	360	R	320	325	
2Z43-1	1992-09-03 0(	842578.3125	1149187	4596.209961	440	I	317	321	
2Z44-2	1992-09-14 0(	842591	1149227	4610.109863	380	I	322	355	
2Z45-3	1992-11-13 0(	842602.375	1149268	4612.850098	400	I	305	314	
2Z46-2	1992-10-01 0(	842599.3125	1149313	4623.390137	400	I	319	328	
2Z47-2	1992-09-17 0(	842599	1149356	4628.540039	400	I	329	334	
2Z51-3	1992-12-01 0(	842556.8125	1149526	4633.149902	300	I	253	263	
2Z52-1	1992-10-13 0(	842595.3125	1149568	4637.5	420	R	351	360	
2Z53-1	1992-09-18 0(	842578.375	1149612	4635.910156	420	I	253	262	
2Z53-2	1992-10-14 0(	842559.8125	1149608	4633.450195	420	I	348	353	
2Z54-2	1992-11-13 0(	842560.6875	1149654	4627.080078	300	R	249	254	
2Z55-1	1992-09-16 0(	842544.3125	1149696	4638.629883	400	I	369	378	
2Z55-2	1992-10-16 0(	842568.8125	1149697	4636.839844	320	I	257	262	
3A12-3	1988-09-27 0(	841180.1875	1147383	4646.299805	360	I	288	292	
3A13-1	1988-09-01 0(	841172.625	1147325	4651.700195	360	R	299	304	
3AA53-1	1988-12-12 0(	842982	1145915	4636.299805	440	I	365	373	
3AA54-1	1988-10-24 0(	843025.6875	1145888	4639.700195	440	R	367	382	
3AA55-1	1988-10-06 0(	842991	1145860	4639.299805	440	I	362	379	
3AA56-1	1988-10-04 0(	843027.875	1145821	4642.399902	440	R	366	378	
3AA57-1	1988-09-15 0(	842990.625	1145793	4642.799805	440	R	378	389	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3AA58-3	1988-11-01 0(	843014.375	1145765	4644.700195	440	R	370	390	
3AA59-1	1988-10-04 0(	842991.1875	1145715	4646.600098	440	I	370	374	
3AA61-2	1988-11-01 0(	842978.125	1145632	4650.600098	440	I	394	404	
3AA63-1	1988-12-20 0(	842992	1145576	4652.200195	440	I	398	404	
3AA64-2	1988-12-21 0(	843032.8125	1145547	4654.899902	440	R	400	404	
3AA87-1	1990-01-03 0(	843054.8125	1144572	4684	420	I			
3AB53-2	1988-12-13 0(	843042.6875	1145914	4636.399902	440	I	369	374	
3AB55-2	1988-10-18 0(	843045.3125	1145837	4642.700195	440	I	364	381	
3AB56-2	1988-10-25 0(	843076.875	1145821	4643.399902	440	R	364	372	
3AB57-1	1988-12-09 0(	843062.625	1145783	4644.200195	440	I	375	378	
3AB58-4	1988-12-07 0(	843079.875	1145750	4647.200195	440	R	371	379	
3AB59-1	1988-10-11 0(	843061.1875	1145718	4648.899902	440	I	371	375	
3AB60-1	1988-10-24 0(	843094.625	1145686	4648.799805	440	R	382	388	
3AB61-1	1988-12-14 0(	843062.125	1145648	4652.5	440	I	387	398	
3AB62-1	1988-12-12 0(	843097.375	1145616	4652.5	440	R	386	388	
3AB63-1	1988-10-13 0(	843062.1875	1145578	4655.5	440	I	400	405	
3AB64-1	1988-10-27 0(	843097.6875	1145537	4656	440	R	389	396	
3AB65-2	1988-12-06 0(	843060.375	1145521	4657.100098	440	I	405	409	
3AB66-2	1988-12-07 0(	843115.375	1145470	4657.899902	440	I	361	370	
3AB68-1	1989-11-28 0(	843208.375	1145392	4654.5	420	R	376	381	
3AB69-1	1989-11-20 0(	843164.6875	1145350	4658.100098	420	I	372	374	
3AB70-1	1989-11-22 0(	843206.875	1145308	4656.799805	420	R	371	384	
3AB71-1	1989-11-27 0(	843164.6875	1145265	4660.600098	420	I	382	394	
3AB74-3	1990-02-28 0(	843205.875	1145142	4662.370117	420	I	390	396	
3AB77-2	1989-12-30 0(	843164.375	1145010	4665.799805	440	I	417	424	
3AB78-1	1989-12-06 0(	843208.1875	1144967	4665.799805	460	R	417	427	
3AB80-2	1990-01-02 0(	843232.8125	1144889	4668.600098	440	R	395	411	
3AB82-1	1989-12-06 0(	843207.1875	1144795	4671.899902	440	R	394	397	
3AC57-3	1988-12-05 0(	843105.3125	1145794	4643.299805	420	I	367	373	
3AC59-2	1988-10-27 0(	843101.5	1145713	4649.799805	440	I	364	377	
3AC61-1	1988-10-11 0(	843131	1145647	4651.399902	440	I	365	375	
3AC62-1	1988-10-20 0(	843155.875	1145614	4651.799805	440	R	364	374	
3AC63-5	1989-01-24 0(	843136.3125	1145581	4650.600098	400	I	273	371	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3AC65-1	1988-12-02 0(	843131.875	1145507	4651.600098	440	I	385	389	
3AC65-2	1988-12-06 0(	843125.875	1145507	4655.600098	440	I	386	394	
3AC66-2	1988-12-12 0(	843166.1875	1145469	4654.799805	440	R	368	383	
3AC67-1	1988-12-09 0(	843133	1145435	4658.100098	440	I	388	394	
3AC69-1	1989-11-30 0(	843227.3125	1145347	4654.399902	420	I	371	381	
3AC71-4	1990-02-05 0(	843223.375	1145288	4656.899902	420	I	372	378	
3AC73-1	1989-12-04 0(	843243.625	1145199	4659	408	R	382	388	
3AC79-1	1989-11-30 0(	843249.5	1144924	4666.899902	440	I	415	427	
3AC81-1	1989-11-28 0(	843249.1875	1144839	4669.899902	440	I	398	406	
3AC82-1	1989-11-07 0(	843293.375	1144797	4617.5	450	R	388	403	
3AC83-1	1989-11-28 0(	843249.6875	1144755	4672.799805	440	I	391	396	
3AC84-1	1989-11-30 0(	843291.125	1144711	4673.799805	440	R	390	397	
3AC85-4	1990-03-20 0(	843273.875	1144674	4675.160156	460	R	425	430	
3AD65-2	1988-12-14 0(	843181.375	1145503	4652.799805	440	I	361	375	
3AD81-2	1989-12-04 0(	843304.8125	1144840	4669.700195	440	I	398	403	
3AD83-1	1989-12-01 0(	843335.1875	1144755	4671.899902	440	I	389	398	
3AD85-2	1989-12-07 0(	843308.6875	1144670	4674.200195	460	I	420	430	
3AD86-1	1989-12-06 0(	843375.375	1144622	4672.700195	460	R	399	408	
3AD86-2	1990-01-05 0(	843370	1144623	4667.799805	460	R	420	425	
3AD87-1	1989-12-07 0(	843335.1875	1144572	4675.399902	460	I	385	399	
3AD87-3	1990-02-26 0(	843333.375	1144582	4670.100098	460	I	420	426	
3AE83-1	1989-12-28 0(	843420.125	1144755	4669	460	I	378	385	
3AE84-1	1989-12-13 0(	843459.5	1144708	4668.100098	460	R	374	386	
3AE85-2	1990-01-04 0(	843434	1144687	4669.799805	440	I	387	402	
3AE86-1	1989-12-28 0(	843462.875	1144619	4669.100098	460	R	388	394	
3AE87-2	1989-12-13 0(	843420.625	1144600	4671.200195	460	I	390	396	
3AF82-1	1990-01-06 0(	843537.125	1144806	4664.399902	420	R	362	380	
3AF83-1	1990-01-04 0(	843504.6875	1144756	4665.700195	440	I	364	381	
3AF84-1	1990-01-05 0(	843544.625	1144712	4664.700195	440	R	369	380	
3AF85-1	1989-12-28 0(	843505	1144670	4666.600098	460	I	376	380	
3AF87-1	1990-01-19 0(	843474.125	1144572	4669.399902	440	I	386	391	
3B11-1	1988-08-17 0(	841238.8125	1147396	4644.600098	380	R	290	303	
3B12-1	1988-08-24 0(	841259.375	1147349	4627	360	R	274	280	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3B13-2	1988-08-24 0(	841225.875	1147309	4643.700195	360	I	285	296	
3B14-1	1988-08-18 0(	841274.1875	1147293	4641.700195	360	R	273	287	
3B16-2	1988-08-15 0(	841294.5	1147219	4641.100098	400	R	280	291	
3B18-1	1988-11-28 0(	841268.1875	1147150	4645.100098	340	R	290	295	
3B20-1	1988-11-28 0(	841276.5	1147078	4643.299805	340	I	298	302	
3C15-2	1988-08-24 0(	841295.1875	1147256	4638.700195	360	I	277	281	
3C17-2	1988-08-18 0(	841297.875	1147167	4640.600098	360	I	273	279	
3C18-2	1988-08-16 0(	841339.6875	1147139	4634.799805	360	I	283	290	
3C19-1	1988-08-03 0(	841313.5	1147114	4637.799805	380	R	268	294	
3C20-1	1988-08-29 0(	841345.125	1147081	4633.5	380	I	263	269	
3C21-1	1988-09-01 0(	841311.1875	1147046	4638.399902	360	I	290	294	
3D10-1	1988-08-03 0(	841417.375	1147433	4653.200195	380	R	296	307	
3D11-1	1988-08-01 0(	841397.6875	1147393	4648.799805	400	I	295	305	
3D12-2	1988-07-12 0(	841424.875	1147372	4647.700195	360	R	277	297	
3D13-1	1988-07-27 0(	841405.1875	1147324	4641.5	360	I	272	295	
3D14-1	1988-08-04 0(	841416.375	1147290	4640.899902	380	R	278	283	
3D15-3	1988-08-17 0(	841397	1147252	4635.399902	340	I	265	276	
3D16-2	1988-08-16 0(	841407	1147212	4628	340	R	270	278	
3D17-1	1988-08-24 0(	841397	1147184	4625.200195	360	I	255	266	
3D18-2	1988-12-01 0(	841421.6875	1147158	4624	340	R	261	271	
3D19-1	1988-08-02 0(	841381.6875	1147115	4627.799805	360	I	276	284	
3D20-2	1988-09-06 0(	841430.875	1147077	4621.5	360	R	248	265	
3D21-2	1988-08-15 0(	841357.5	1147046	4630.899902	360	R	283	292	
3D22-1	1988-08-10 0(	841416.5	1147009	4621.100098	400	I	277	281	
3D8-1	1988-08-22 0(	841412	1147498	4659.299805	360	R	301	309	
3E10-1	1988-07-28 0(	841487.5	1147426	4655.100098	360	R	287	309	
3E11-2	1988-07-25 0(	841437	1147409	4653.200195	360	I	285	301	
3E13-1	1988-07-20 0(	841451.1875	1147325	4646.700195	360	I	289	295	
3E14-1	1988-10-20 0(	841480.875	1147290	4637.600098	360	I	272	279	
3E15-1	1988-10-18 0(	841451.875	1147253	4637.899902	340	I	269	273	
3E16-2	1988-11-28 0(	841470.6875	1147222	4637.100098	340	R	263	282	
3E17-1	1988-08-15 0(	841452.5	1147184	4630.100098	360	I	282	287	
3E18-3	1988-12-01 0(	841490.1875	1147156	4630.200195	340	R	263	272	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3E19-1	1988-08-09 0(	841436.6875	1147118	4621.799805	380	I	275	278	
3E21-1	1988-09-28 0(	841421.8125	1147042	4624	360	I	275	278	
3E7-2	1988-08-17 0(	841456.625	1147524	4655.100098	360	I	286	297	
3E8-1	1988-08-09 0(	841483.8125	1147500	4633.799805	360	I	296	306	
3E9-1	1988-08-15 0(	841450.625	1147467	4654.299805	360	I	288	300	
3F10-1	1988-08-03 0(	841557.1875	1147428	4643.899902	380	BL	283	295	
3F11-2	1988-11-21 0(	841505.8125	1147406	4651.200195	360	I	300	306	
3F13-1	1988-10-05 0(	841547.6875	1147332	4643.200195	360	I	297	301	
3F14-1	1988-09-29 0(	841556.6875	1147291	4640.200195	340	R	272	279	
3F15-2	1988-10-26 0(	841533.6875	1147270	4641.5	340	I	277	283	
3F17-1	1988-10-06 0(	841523.1875	1147186	4638.899902	340	I	264	280	
3F19-2	1988-11-04 0(	841523.3125	1147130	4627.100098	360	I	264	271	
3F6-2	1988-08-24 0(	841546.6875	1147559	4642.399902	360	R	287	295	
3F7-1	1988-08-11 0(	841519	1147534	4635.100098	360	I	304	308	
3F8-2	1988-08-16 0(	841539.875	1147506	4644.600098	360	R	288	299	
3G11-3	1988-08-16 0(	841567.6875	1147374	4642.700195	360	R	277	294	
3G13-1	1988-07-20 0(	841588.125	1147328	4637.299805	340	R	268	274	
3G14-1	1988-08-15 0(	841585.1875	1147290	4636.700195	360	I	269	278	
3G15-1	1988-08-23 0(	841592.5	1147252	4631.700195	380	I	262	275	
3G16-1	1988-08-30 0(	841625.375	1147214	4624.799805	380	R	255	280	
3H17-1	1988-10-26 0(	841661.6875	1147187	4608.700195	340	I	256	263	
3H18-1	1988-10-03 0(	841673.6875	1147131	4591.200195	280	I	230	237	
3H18-2	1988-10-19 0(	841694.6875	1147158	4593.100098	300	R	232	245	
3H20-1	1988-08-22 0(	841695.5	1147081	4606.799805	340	R	240	258	
3H21-2	1988-11-28 0(	841658.3125	1147068	4608.5	320	BL	249	253	
3H22-1	1988-10-24 0(	841717	1146998	4582.200195	260	R	218	223	
3I19-1	1988-10-12 0(	841726	1147116	4598.799805	300	I	237	247	
3I21-1	1988-08-10 0(	841733.5	1147044	4582.100098	300	I	216	225	
3I23-1	1988-10-04 0(	841712.875	1146968	4584.200195	280	I	247	251	
3I24-1	1988-10-05 0(	841766	1146931	4611.600098	320	R	278	285	
3J23-1	1988-07-26 0(	841801.5	1146974	4613.399902	340	BL	260	269	
3J25-1	1988-07-13 0(	841830.375	1146898	4611	340	I	282	300	
3J26-1	1988-06-21 0(	841834	1146868	4609.600098	320	R	280	298	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3J27-1	1988-07-12 0(	841803.875	1146821	4615.299805	340	I	284	293	
3J27-2	1988-08-31 0(	841822.6875	1146809	4616.100098	320	R	249	260	
3J28-2	1988-08-09 0(	841816.3125	1146799	4614.5	320	I	246	255	
3J28-3	1988-08-25 0(	841850.6875	1146812	4612	320	R	285	289	
3J29-1	1988-07-27 0(	841815.3125	1146764	4616.200195	340	R	301	305	
3J29-2	1988-09-07 0(	841809.3125	1146764	4616.799805	340	I	248	253	
3J30-1	1988-08-01 0(	841836.6875	1146731	4616.399902	340	I	247	257	
3J30-2	1988-08-23 0(	841852	1146746	4613.5	340	R	248	254	
3J31-1	1988-09-07 0(	841797.875	1146690	4602.899902	340	I	288	293	
3J32-1	1988-08-04 0(	841835.6875	1146659	4623.899902	340	R	303	306	
3J35-1	1988-08-09 0(	841803.1875	1146557	4641.600098	360	I	317	322	
3K14-1	1988-09-29 0(	841906.875	1147279	4570.600098	280	I	198	207	
3K15-1	1988-08-29 0(	841891.1875	1147253	4564.700195	280	R	202	231	
3K16-1	1988-08-11 0(	841910.1875	1147219	4568.700195	280	I	202	212	
3K17-1	1988-08-25 0(	841871.875	1147187	4566.5	280	I	229	237	
3K17-3	1988-09-27 0(	841902.625	1147185	4566.700195	280	I	196	202	
3K18-1	1988-07-25 0(	841908.375	1147144	4570.5	280	R	237	244	
3K18-2	1988-08-22 0(	841911.125	1147139	4570.299805	280	R	196	234	
3K19-1	1988-07-20 0(	841877.1875	1147117	4568	280	I	236	241	
3K19-2	1988-08-25 0(	841888.1875	1147121	4568.200195	280	I	206	220	
3K20-3	1988-08-25 0(	841909.6875	1147085	4571.100098	280	R	201	206	
3K21-2	1988-08-11 0(	841876.625	1147045	4569	280	R	199	204	
3K22-1	1988-06-27 0(	841911.3125	1147010	4570.399902	280	I	252	260	
3K24-1	1988-08-24 0(	841907.6875	1146947	4567.700195	280	R	242	249	
3K25-1	1988-07-06 0(	841869.6875	1146898	4606	340	I	278	293	
3K25-2	1988-09-06 0(	841871.6875	1146889	4606.700195	320	I	259	262	
3K26-1	1988-07-13 0(	841887.6875	1146870	4605.600098	340	R	255	262	
3K27-1	1988-07-11 0(	841876.5	1146825	4607.399902	340	I	285	290	
3K27-2	1988-08-31 0(	841878.625	1146835	4606.799805	320	I	250	256	
3K30-1	1988-07-25 0(	841905.6875	1146728	4608.799805	320	R	284	299	
3K31-1	1988-08-09 0(	841871.375	1146697	4613.299805	340	I	291	302	
3K31-3	1988-12-30 0(	841863.375	1146703	4613.299805	340	I	256	264	
3K32-1	1988-07-27 0(	841907.875	1146662	4611.899902	340	I	247	263	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3K33-1	1988-08-10 0(	841867.875	1146620	4626	340	I	304	309	
3K33-2	1988-09-07 0(	841872.3125	1146617	4622.399902	340	R	257	260	
3L15-1	1988-08-10 0(	841942.3125	1147256	4567.799805	280	I	213	226	
3L16-1	1988-06-23 0(	841952.5	1147208	4569.799805	280	R	248	258	
3L16-2	1988-08-18 0(	841977.625	1147220	4570.399902	280	R	209	222	
3L16-3	1988-09-06 0(	841990	1147216	4570.700195	280	I	249	256	
3L17-1	1988-07-28 0(	841921.375	1147186	4569	280	I	232	239	
3L17-3	1988-09-07 0(	841938.6875	1147179	4569.799805	280	I	210	220	
3L18-1	1988-06-13 0(	841966.8125	1147149	4572.5	270	I	229	252	
3L18-2	1988-08-09 0(	841975.875	1147151	4572.899902	280	R	205	219	
3L19-2	1988-07-12 0(	841942.5	1147110	4572.200195	280	I	220	242	
3L19-3	1988-08-24 0(	841928.1875	1147117	4570.600098	280	I	218	224	
3L20-1	1988-06-15 0(	841972.1875	1147081	4573.5	270	R	235	250	
3L21-1	1988-06-16 0(	841939.875	1147046	4571.299805	280	I	197	204	
3L21-3	1988-07-21 0(	841936.1875	1147069	4572.299805	280	I	234	252	
3L22-1	1988-06-16 0(	841971.875	1147007	4571.799805	280	R	238	243	
3L23-2	1988-08-22 0(	841935.8125	1146995	4570.399902	280	I	240	248	
3L23-4	1988-08-30 0(	841943	1147010	4570.700195	280	I	201	203	
3L23-5	1988-09-27 0(	841934.625	1146958	4565	280	I	213	220	
3L24-1	1988-08-31 0(	841966.1875	1146946	4568.399902	280	I	238	247	
3L24-2	1988-10-05 0(	841946.625	1146963	4568.700195	280	R	210	217	
3L25-1	1988-08-30 0(	841940.6875	1146907	4568.200195	280	I	210	221	
3L26-1	1988-09-12 0(	841972.8125	1146882	4564.899902	280	I	192	198	
3L27-1	1988-07-20 0(	841948.8125	1146829	4605.100098	320	I	236	256	
3L27-2	1988-07-26 0(	841916.5	1146823	4605.600098	320	R	277	297	
3L28-1	1988-09-06 0(	841974.375	1146799	4604.399902	320	R	245	256	
3L29-3	1988-08-30 0(	841918.375	1146759	4606.399902	320	I	276	292	
3L30-1	1988-07-21 0(	841976.6875	1146730	4604.600098	340	I	231	234	
3L31-2	1988-09-06 0(	841931.625	1146697	4607.600098	320	R	256	262	
3M15-3	1988-08-23 0(	841980	1147257	4569.299805	280	I	250	258	
3M15-4	1988-09-26 0(	841982.1875	1147251	4566	280	I	215	225	
3M16-1	1988-06-16 0(	842020.1875	1147220	4573.100098	280	R	213	231	
3M17-2	1988-06-29 0(	841989.8125	1147178	4573	280	I	251	256	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3M17-3	1988-08-17 0(	841994.125	1147187	4575.5	280	I	216	222	
3M18-1	1988-06-13 0(	842033.6875	1147149	4579	300	R	257	265	
3M18-2	1988-08-24 0(	842045.8125	1147153	4579.299805	280	R	211	229	
3M19-1	1988-06-16 0(	842005.875	1147115	4576.600098	280	I	255	264	
3M19-3	1988-08-23 0(	842037.625	1147117	4579.700195	280	I	227	230	
3M19-4	1988-10-04 0(	842000.3125	1147115	4576.899902	280	I	219	222	
3M20-2	1988-06-21 0(	842029.6875	1147081	4578.299805	280	R	228	233	
3M21-1	1988-06-20 0(	842011.375	1147046	4576.799805	280	I	245	252	
3M21-2	1988-08-29 0(	842013.375	1147062	4577	280	I	222	229	
3M22-1	1988-07-05 0(	842044.1875	1147013	4577.899902	280	R	247	260	
3M22-3	1988-09-14 0(	842043.3125	1146998	4573.700195	280	R	223	231	
3M23-1	1988-06-28 0(	842004.625	1146979	4574.600098	280	I	242	249	
3M23-2	1988-08-04 0(	842004.1875	1146988	4577.600098	280	I	199	206	
3M24-1	1988-07-05 0(	842042.625	1146944	4574.899902	280	I	244	255	
3M25-1	1988-07-27 0(	841997.875	1146912	4569.100098	280	R	190	202	
3M27-1	1988-10-03 0(	842008.3125	1146866	4568.100098	280	I	197	202	
3M29-1	1988-08-31 0(	842009	1146767	4603.700195	320	I	240	246	
3N15-2	1988-07-11 0(	842058.5	1147222	4575.899902	280	I	211	223	
3N17-2	1988-06-28 0(	842060.875	1147186	4577.799805	280	I	216	224	
3N18-1	1988-07-13 0(	842107.375	1147155	4578.100098	280	R	221	230	
3N18-2	1988-09-21 0(	842086.875	1147146	4580.899902	280	I	229	234	
3N19-1	1988-06-20 0(	842044.875	1147116	4579.600098	280	I	223	228	
3N20-1	1988-07-18 0(	842119.875	1147080	4580.200195	280	R	216	237	
3N21-2	1988-07-11 0(	842068.5	1147043	4578.799805	280	I	247	253	
3N21-3	1988-08-03 0(	842074.625	1147042	4579.200195	280	I	207	220	
3N22-1	1988-07-11 0(	842119.1875	1147010	4579	280	R	248	256	
3N22-4	1988-09-27 0(	842090.6875	1147013	4576	280	I	214	222	
3N23-3	1988-07-18 0(	842097.875	1146976	4577.600098	280	I	248	250	
3N23-5	1988-09-06 0(	842107	1146982	4578.200195	280	I			
3N24-1	1988-07-07 0(	842117.5	1146944	4576.700195	280	I	209	219	
3N25-1	1988-06-21 0(	842079.875	1146906	4574.399902	280	R	258	263	
3N25-3	1988-09-14 0(	842109.3125	1146918	4572.399902	280	R	209	220	
3N26-1	1988-08-03 0(	842105.6875	1146868	4572.799805	280	I	211	218	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3N26-2	1988-08-09 0(	842105.375	1146873	4572.799805	280	I	247	254	
3N27-1	1988-08-01 0(	842079.6875	1146839	4568.899902	280	I	253	259	
3N28-1	1988-08-29 0(	842116.6875	1146808	4568.799805	280	R	206	211	
3N30-3	1988-12-30 0(	842113.625	1146725	4604.399902	320	R	270	273	
3N32-1	1988-08-22 0(	842112.8125	1146657	4605.100098	320	R	272	288	
3O19-3	1988-07-19 0(	842115.8125	1147114	4579.200195	280	I	227	233	
3O21-1	1988-07-07 0(	842153.5	1147045	4582.100098	280	I	221	234	
3O23-1	1988-06-27 0(	842163.3125	1146982	4579.200195	280	I	231	235	
3O24-2	1988-06-28 0(	842181.875	1146956	4578.299805	280	R	214	233	
3O25-3	1988-07-06 0(	842108.375	1146911	4575.899902	280	R	247	254	
3O25-4	1988-07-14 0(	842135.6875	1146920	4576.299805	280	R	211	219	
3O27-1	1988-08-31 0(	842153.1875	1146837	4571.700195	280	I	237	242	
3O27-2	1988-09-29 0(	842129.5	1146835	4575.700195	280	I	206	209	
3O28-1	1988-07-28 0(	842186.6875	1146799	4572.700195	280	R	237	241	
3O29-3	1988-12-12 0(	842148.1875	1146765	4568.399902	240	I	212	215	
3O31-1	1988-08-08 0(	842153.6875	1146706	4604.5	320	I	266	272	
3O31-2	1988-08-17 0(	842151.625	1146690	4604.700195	320	I	244	253	
3O32-1	1988-08-18 0(	842181.1875	1146660	4606.100098	320	I	245	258	
3O32-2	1988-08-16 0(	842184.8125	1146676	4605	320	R	268	272	
3O33-1	1988-08-22 0(	842142.5	1146620	4606.5	320	I	276	284	
3O34-1	1988-10-20 0(	842185.625	1146588	4612	320	R	291	299	
3O37-2	1988-07-05 0(	842175.1875	1146485	4619.100098	320	R	307	312	
3O38-1	1988-07-11 0(	842187.125	1146445	4621.600098	340	I	252	258	
3O38-3	1988-07-21 0(	842165.875	1146424	4628	340	I	309	312	
3O40-2	1988-07-28 0(	842204.1875	1146376	4625.700195	320	I	314	317	
3P21-2	1988-06-27 0(	842236.125	1147026	4580.100098	280	I	228	243	
3P22-1	1988-06-20 0(	842257.8125	1147009	4578.799805	280	R	225	240	
3P23-1	1988-06-22 0(	842220.8125	1146974	4578.299805	280	I	222	242	
3P24-1	1988-06-23 0(	842256.6875	1146943	4577.299805	285	R	214	217	
3P25-3	1988-07-12 0(	842218.875	1146932	4577.600098	280	I	205	230	
3P27-2	1988-09-06 0(	842209.1875	1146820	4571.700195	280	I	235	238	
3P30-1	1988-09-19 0(	842240.375	1146748	4569.899902	280	I	214	232	
3P31-3	1988-09-22 0(	842202.6875	1146686	4607.200195	320	R	235	242	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3P32-1	1988-08-22 0(	842258.1875	1146659	4606.299805	320	R	271	274	
3P33-1	1988-08-08 0(	842220.375	1146628	4608	320	I	235	240	
3P33-2	1988-08-24 0(	842210.125	1146637	4607.200195	320	I	270	287	
3P42-1	1988-08-08 0(	842255.1875	1146310	4636.200195	340	R	317	325	
3P44-2	1988-07-21 0(	842257.375	1146241	4643.899902	340	I	327	330	
3Q19-2	1988-06-22 0(	842304.5	1147095	4581.600098	280	R	222	235	
3Q20-1	1988-06-13 0(	842326.375	1147080	4580.899902	280	I	225	234	
3Q21-1	1988-06-21 0(	842292.3125	1147043	4579.700195	280	I	226	233	
3Q22-1	1988-06-15 0(	842329.6875	1147009	4578.200195	280	R	220	231	
3Q23-1	1988-06-20 0(	842294.125	1146966	4577.899902	280	I	220	231	
3Q24-1	1988-06-22 0(	842327.3125	1146934	4573.100098	290	R	227	233	
3Q26-1	1988-07-14 0(	842327.375	1146870	4571.700195	280	R	231	238	
3Q27-1	1988-07-14 0(	842306.1875	1146837	4574.299805	340	R	216	221	
3Q28-1	1988-08-10 0(	842328.5	1146802	4568.799805	280	I	195	213	
3Q29-1	1988-08-17 0(	842299.3125	1146768	4568.299805	280	R	230	233	
3Q30-2	1988-08-30 0(	842320.6875	1146724	4605.100098	300	R	244	248	
3Q33-1	1988-09-14 0(	842291.6875	1146636	4603.700195	320	I	270	275	
3Q43-1	1988-07-18 0(	842292.3125	1146275	4640.600098	340	I	328	332	
3Q45-2	1988-08-03 0(	842292.375	1146213	4639.899902	340	I	322	325	
3Q46-1	1988-08-02 0(	842326.625	1146169	4640.899902	340	R	322	328	
3R19-1	1988-06-20 0(	842356.5	1147122	4582	280	I	223	230	
3R20-1	1988-06-15 0(	842389	1147078	4580.200195	280	R	211	234	
3R21-1	1988-06-16 0(	842361.1875	1147044	4579	280	I	209	230	
3R22-1	1988-06-16 0(	842397.875	1147005	4574.399902	280	I	222	228	
3R23-1	1988-06-20 0(	842365.3125	1146975	4574.200195	280	I	214	225	
3R25-1	1988-06-28 0(	842359.1875	1146906	4572.399902	280	I	210	217	
3R26-3	1988-12-12 0(	842381.375	1146890	4569	260	I	231	235	
3R28-1	1988-12-06 0(	842398.1875	1146745	4603.299805	340	R	255	264	
3R29-1	1988-08-16 0(	842363.1875	1146746	4603.600098	320	I	233	255	
3R30-2	1988-09-01 0(	842402.875	1146718	4602.600098	320	R	234	243	
3R30-3	1988-10-13 0(	842379.3125	1146724	4603.700195	320	I	262	266	
3R31-1	1988-08-17 0(	842363	1146697	4605.100098	320	I	233	240	
3R32-1	1988-07-25 0(	842400.5	1146658	4605.899902	320	R	264	273	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3R33-2	1988-09-28 0(	842381.875	1146614	4607.700195	320	I	235	250	
3R34-1	1988-07-19 0(	842402.1875	1146591	4609.399902	320	R	238	247	
3R35-2	1988-08-23 0(	842378.1875	1146570	4612.200195	320	I	242	245	
3S19-1	1988-06-21 0(	842428.1875	1147133	4581.5	280	I	209	213	
3S20-1	1988-06-21 0(	842468	1147102	4578.600098	280	R	209	222	
3S21-1	1988-06-20 0(	842432.1875	1147045	4575.5	280	I	202	210	
3S21-2	1900-01-02 0(	842452	1147078	4604	220	I			
3S26-1	1988-08-01 0(	842486.6875	1146868	4602.299805	320	I	241	247	
3S27-1	1988-08-23 0(	842444.375	1146834	4602.899902	320	I	237	247	
3S29-1	1988-07-21 0(	842432.375	1146740	4602.899902	320	I	265	269	
3S30-1	1988-07-19 0(	842466.875	1146726	4603.399902	320	R	248	256	
3S31-1	1988-07-21 0(	842434.5	1146690	4603.299805	320	I	269	271	
3S32-2	1988-07-26 0(	842481.6875	1146659	4606	320	R	247	260	
3S33-2	1988-07-26 0(	842417.875	1146616	4608.100098	320	I	238	250	
3S34-1	1988-07-14 0(	842484.6875	1146595	4613.700195	340	I	249	257	
3S34-2	1988-08-24 0(	842455.625	1146595	4611	320	R	280	283	
3S35-2	1988-08-01 0(	842411.375	1146559	4612.899902	320	I	273	279	
3S40-1	1988-07-20 0(	842478.125	1146372	4636.700195	320	R	275	282	
3S44-1	1988-07-06 0(	842465.375	1146241	4638.600098	340	R	291	296	
3T21-4	1988-08-22 0(	842490.1875	1147058	4574.299805	280	I	210	218	
3T24-1	1988-06-22 0(	842543.5	1146936	4593.899902	320	I	257	263	
3T27-2	1988-06-28 0(	842482.6875	1146832	4603.399902	320	R	246	252	
3T31-1	1988-07-07 0(	842524.375	1146697	4608.600098	320	I	258	263	
3T35-1	1988-07-05 0(	842498.125	1146563	4615.200195	340	I	280	285	
3T37-1	1988-06-22 0(	842502.1875	1146485	4624.100098	320	R	265	271	1
3T38-1	1988-07-14 0(	842543.3125	1146451	4632.399902	340	R	269	288	
3T39-1	1988-07-14 0(	842509.1875	1146415	4632.399902	340	I	270	276	
3T40-1	1988-07-07 0(	842530.1875	1146380	4638.299805	340	R	272	281	
3T41-1	1988-07-18 0(	842502.1875	1146345	4637.200195	340	I	277	281	
3T42-1	1988-07-18 0(	842530.6875	1146311	4636.899902	295	R	275	285	
3T43-1	1988-07-26 0(	842501	1146276	4638.200195	340	I	272	279	
3T44-2	1988-07-27 0(	842532	1146233	4638.200195	340	R	289	299	
3T45-1	1988-06-30 0(	842497.875	1146200	4641.600098	340	I	271	310	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3T46-1	1988-06-23 0(	842537.375	1146178	4638.799805	340	R	271	285	
3T47-1	1988-06-28 0(	842496.875	1146132	4638.799805	340	I	283	298	
3T48-1	1988-10-26 0(	842535.375	1146104	4636.5	340	R	277	283	
3U23-1	1988-06-23 0(	842570.375	1146975	4592.399902	300	I	230	261	
3U25-1	1988-06-30 0(	842569	1146943	4591.100098	320	R	257	262	
3U25-2	1988-12-19 0(	842573.375	1146886	4602.5	340	I	260	264	
3U26-1	1988-12-20 0(	842601.8125	1146874	4602.899902	340	R	258	271	
3U27-1	1988-12-21 0(	842571.1875	1146835	4602.700195	340	I	266	276	
3U35-1	1988-07-07 0(	842547.1875	1146519	4623.899902	340	R	267	281	
3U37-1	1988-07-19 0(	842559.375	1146473	4627.200195	340	I	270	274	
3U39-1	1988-07-13 0(	842571.375	1146417	4633.700195	340	I	279	292	
3U41-2	1988-07-12 0(	842550.375	1146343	4636.899902	340	I	275	284	
3U43-1	1988-07-28 0(	842544.375	1146280	4637.600098	340	I	283	287	
3U45-1	1988-06-21 0(	842572.1875	1146204	4638.100098	340	R	276	304	
3U46-1	1988-06-23 0(	842601.875	1146166	4635.5	340	R	297	308	
3U47-1	1988-06-27 0(	842569.1875	1146137	4636.600098	340	I	295	307	
3U48-1	1988-10-11 0(	842604.375	1146107	4629.799805	340	I	271	274	
3V25-1	1988-12-20 0(	842618.1875	1146907	4602.100098	340	I	259	266	
3V45-1	1988-07-19 0(	842636.5	1146209	4633	340	I	288	296	
3V47-2	1988-08-08 0(	842628.125	1146153	4629.100098	340	I	298	301	
3V51-1	1988-10-10 0(	842638.3125	1145996	4616.5	340	I	268	274	
3V52-2	1988-09-19 0(	842660.875	1145948	4632.5	340	R	275	283	
3V53-1	1988-09-15 0(	842640.5	1145928	4633.100098	360	I	273	284	
3V54-2	1988-10-19 0(	842696.375	1145894	4637.799805	340	I	280	283	
3V55-1	1988-10-04 0(	842641.8125	1145856	4637.5	360	R	274	284	
3V56-1	1988-10-11 0(	842670.375	1145828	4639.899902	340	I	274	292	
3V57-1	1988-10-06 0(	842634.5	1145789	4640.200195	340	I	281	295	
3V58-2	1989-01-30 0(	842676.1875	1145761	4640.799805	320	R	282	286	1
3V64-1	1988-10-10 0(	842673.625	1145545	4651.100098	360	I	281	285	
3V66-1	1988-10-25 0(	842675.3125	1145475	4653.899902	340	I	292	305	
3V67-1	1988-12-15 0(	842642.5	1145438	4654.799805	340	I	297	305	
3V68-1	1989-11-16 0(	842694.875	1145397	4656	440	R	297	306	
3V69-3	1989-12-27 0(	842680.5	1145347	4658.100098	360	R	305	319	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3V70-1	1989-11-22 0(	842696.5	1145308	4659.299805	450	R	307	313	
3W55-1	1988-10-13 0(	842711.6875	1145858	4641.899902	340	I	285	289	
3W57-2	1988-10-25 0(	842719.1875	1145797	4641.700195	340	I	276	287	
3W58-1	1988-09-15 0(	842736	1145757	4642.399902	340	R	289	293	
3W62-1	1988-10-13 0(	842755.6875	1145615	4648	340	R	289	295	
3W65-1	1988-10-05 0(	842712.3125	1145511	4649.899902	360	R	307	313	
3W66-2	1988-09-15 0(	842730.375	1145455	4651.299805	360	BL	296	306	
3W67-1	1988-09-15 0(	842712.875	1145437	4651.700195	360	R	312	321	
3W68-3	1990-01-12 0(	842783.375	1145400	4654.700195	360	I	302	309	
3W69-1	1989-11-17 0(	842740.6875	1145350	4657.200195	450	I			
3W70-1	1989-11-22 0(	842781.375	1145307	4658.100098	460	R	313	316	
3W71-2	1989-12-28 0(	842755.6875	1145281	4659.399902	360	I	299	302	
3W75-1	1990-01-18 0(	842740.625	1145094	4667.399902	380	R	305	322	
3W77-1	1990-01-12 0(	842741.5	1145011	4667.5	380	I	317	322	
3W78-1	1990-01-17 0(	842783.375	1144966	4674.399902	380	R	333	339	
3W80-2	1990-01-15 0(	842808.375	1144882	4679.100098	380	R	327	332	
3X59-2	1988-10-25 0(	842760.1875	1145717	4644.100098	340	I	284	288	
3X60-2	1988-10-18 0(	842798.125	1145684	4645.200195	340	R	288	297	
3X61-1	1988-10-05 0(	842783	1145649	4646.200195	340	I	288	312	
3X63-2	1988-12-16 0(	842758.6875	1145587	4648.5	340	I	291	296	
3X69-1	1989-11-21 0(	842824.375	1145350	4656.100098	450	I	297	303	
3X71-2	1990-02-05 0(	842820.875	1145265	4660.399902	440	I	302	306	
3X79-2	1990-01-17 0(	842796.3125	1144925	4676.899902	380	I	336	340	
3X81-2	1990-01-16 0(	842800.1875	1144821	4681.200195	380	I	327	333	
3X82-1	1990-01-05 0(	842889.3125	1144782	4679.700195	400	R	321	341	
3X83-2	1990-01-13 0(	842851.375	1144754	4680.600098	400	I	318	321	
3X84-1	1992-06-01 0(	842872.1875	1144710	4681.899902	400	R	313	319	
3X85-2	1990-01-11 0(	842849.625	1144673	4683.200195	420	I	313	318	
3X86-1	1990-01-08 0(	842868.3125	1144622	4685.299805	420	R	317	321	
3Y47-2	1988-12-14 0(	842869.6875	1146178	4621.600098	440	R	357	361	
3Y49-1	1988-11-01 0(	842844.875	1146064	4629.399902	440	I	370	380	
3Y50-2	1988-12-08 0(	842843.6875	1146027	4633.399902	440	R	376	381	
3Y51-2	1988-10-24 0(	842848.5	1145997	4631.600098	440	I	356	370	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
3Y52-2	1988-12-13 0(	842881	1145960	4614.200195	440	R	349	357	
3Y53-1	1988-11-30 0(	842852.3125	1145924	4631.299805	440	I	374	380	
3Y54-1	1988-10-11 0(	842885.1875	1145888	4633	440	R	371	379	
3Y55-2	1988-12-19 0(	842868.3125	1145844	4636.700195	440	I	369	377	
3Y56-1	1988-10-27 0(	842882.875	1145815	4637.299805	440	R	390	394	
3Y57-1	1988-12-13 0(	842850	1145784	4640.899902	440	I	398	414	
3Y58-1	1988-12-09 0(	842878.8125	1145744	4641.799805	440	R	399	412	
3Y81-1	1990-01-03 0(	842909.375	1144840	4680.200195	460	I	320	336	
3Y83-1	1990-01-02 0(	842910.5	1144757	4683.600098	400	I	321	340	
3Y84-1	1989-12-29 0(	842952.375	1144712	4683	420	R	323	337	
3Y85-1	1990-01-04 0(	842910.8125	1144671	4686.700195	400	I	338	351	
3Y86-1	1989-12-27 0(	842951	1144621	4686.5	460	R	310	313	
3Y87-1	1989-12-29 0(	842910.125	1144571	4690.600098	420	I	329	340	
3Z53-1	1988-10-19 0(	842920.1875	1145925	4618.399902	440	I	338	344	
3Z54-1	1988-11-30 0(	842884.6875	1145888	4633.600098	420	R	352	368	
3Z55-1	1988-11-30 0(	842921.875	1145856	4623.5	420	I	359	367	
3Z56-1	1988-10-11 0(	842961.6875	1145822	4640.100098	440	I	370	377	
3Z57-1	1988-10-25 0(	842922.1875	1145786	4635.399902	440	I	368	386	
3Z59-3	1988-12-21 0(	842937.875	1145736	4641.100098	440	I	384	394	
3Z60-1	1988-10-24 0(	842957.875	1145681	4647.399902	440	R	386	400	
3Z62-1	1988-12-16 0(	842956.625	1145609	4649.5	440	R	410	414	
3Z85-1	1989-12-30 0(	842995.6875	1144672	4683.100098	420	I	340	346	
3Z86-2	1989-12-29 0(	843017.1875	1144625	4683.899902	420	R	305	320	
3Z87-1	1989-11-08 0(	842995.1875	1144571	4686.700195	480	R	302	308	
4476-10-7I-327	2010-10-08 0(	855863	1148007	4907.259766	640	I	550	560	1
4476-10-7I-328	2010-10-05 0(	855776	1147988	4904.299805	640	I	554	563	1
4476-10-7I-329A	2010-11-22 0(	855872	1147913	4913.600098	660	I	556	565	
4476-10-7I-330	2010-12-01 0(	855791.875	1147903	4917.5	660	I	565	575	
4476-10-7I-330B	2011-05-17 0(	855786	1147903	5000	566	I	565	575	1
4476-10-7I-331	2010-10-05 0(	855790	1147833	4917.620117	660	I	556	575	1
4476-10-7I-332	2010-10-19 0(	855880	1147816	4921.799805	660	I	556	578	1
4476-10-7I-333	2010-11-24 0(	855877	1147748	4920.600098	660	I	555	574	1
4476-10-7I-334	2010-10-07 0(	855783	1147717	4904.799805	660	I	542	562	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-10-7I-336	2010-12-01 0(	855783	1147717	5000	570	I	540	560	1
4476-10-7I-337	2010-12-06 0(	855902	1147644	5000	590	I	548	570	1
4476-10-7I-338	2010-10-13 0(	855802.875	1147560	4898.399902	580	I	535	552	1
4476-10-7I-339	2010-10-13 0(	855903.875	1147545	4909	580	I	547	562	1
4476-10-7I-340	2010-10-14 0(	855795	1147481	4895.200195	580	I	527	546	1
4476-10-7I-341	2010-10-13 0(	855901	1147481	4906.75	560	I	532	555	1
4476-10-7I-342	2010-10-15 0(	855781	1147416	4893.100098	660	I	520	543	1
4476-10-7I-343	2010-10-19 0(	855843	1147383	4899.100098	580	I	532	550	1
4476-10-7I-344	2010-10-18 0(	855896	1147406	4905.310059	580	I	535	555	1
4476-10-7I-345	2010-10-15 0(	855740.875	1147314	4889.100098	660	I	520	543	1
4476-10-7I-346	2010-10-20 0(	855836.875	1147308	4898.700195	660	I	528	551	1
4476-10-7I-347	2010-10-27 0(	855942.875	1147308	4911.100098	660	I	535	550	1
4476-10-7I-348	2010-10-21 0(	855757.125	1147215	4891.600098	660	I	528	551	1
4476-10-7I-349	2010-11-02 0(	855843	1147235	4898.859863	660	I	530	552	1
4476-10-7I-350	2010-10-22 0(	855943	1147242	4909.799805	660	I	538	558	1
4476-10-7I-351	2010-10-18 0(	855948	1147172	4907.319824	660	I	527	545	1
4476-10-7I-352	2010-12-02 0(	855865	1147148	4899.899902	580	I	528	553	0
4476-10-7I-353	2010-10-27 0(	855792	1147123	4895.100098	660	I	520	533	1
4476-10-7I-354	2010-10-21 0(	855806	1147035	4896.600098	660	I	522	540	1
4476-10-7I-355	2010-10-27 0(	855848.875	1147024	4899.399902	660	I	525	543	1
4476-10-7I-356	2010-10-28 0(	855897	1147060	4901.899902	660	I	524	543	1
4476-10-7I-357	2010-10-20 0(	855944	1147065	4904.970215	660	I	528	548	1
4476-10-7I-358	2010-10-29 0(	855867	1146965	4900.299805	660	I	520	545	1
4476-10-7I-359	2010-11-29 0(	855944.125	1146955	4904.899902	660	I	535	545	1
4476-10-7I-360	2010-12-03 0(	855865	1146860	4902.589844	660	I	527	552	0
4476-10-7I-361	2010-12-06 0(	855924.3125	1146851	4906	660	I	535	554	1
4476-10-7I-362	2010-11-05 0(	855948.875	1146791	4908.700195	660	I	545	553	1
4476-10-7I-363	2010-11-10 0(	855818.875	1146769	4904	640	I	0	0	1
4476-10-7I-364	2010-11-11 0(	855879	1146737	4907.299805	660	I	535	550	1
4476-10-7I-365B	2011-03-09 0(	855911	1146674	5000	580	I			
4476-10-7I-366	2010-11-12 0(	855989	1146692	4914.299805	680	I	540	553	1
4476-10-7I-368	2010-11-05 0(	855999.875	1146570	4918.399902	680	I	552	560	1
4476-10-7I-371	2010-11-12 0(	856161	1146648	4930.299805	600	I	555	572	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-10-7I-372	2010-11-03 0(	856060.875	1146583	4921.899902	600	I	552	567	1
4476-10-7I-373	2010-11-01 0(	856132.875	1146578	4927.799805	600	R	553	572	1
4476-10-7I-374	2010-11-18 0(	856156.875	1146550	4930.299805	600	I	557	577	1
4476-10-7I-375	2010-11-03 0(	856042	1146499	4923.169922	600	I	555	567	1
4476-10-7I-376	2010-11-09 0(	856153.875	1146498	4930.899902	600	I	556	568	1
4476-10-7I-377	2010-10-04 0(	855589	1147925	4892.569824	560	I	514	523	1
4476-10-7I-378	2010-10-26 0(	855557.875	1147814	4885.5	560	I	508	525	1
4476-10-7I-379	2010-10-05 0(	855622	1147805	4893.799805	560	I	520	530	1
4476-10-7I-380	2010-10-04 0(	855650	1147743	4893.040039	560	I	515	530	1
4476-10-7I-381	2010-10-04 0(	855558	1147699	4881.77002	560	I	505	520	1
4476-10-7I-382	2010-10-08 0(	855673	1147669	4891.5	560	I	514	528	1
4476-10-7I-383	2010-10-08 0(	855585.875	1147623	4882.299805	560	I	508	525	1
4476-10-7I-384	2010-10-07 0(	855709	1147604	4891.899902	560	I	517	536	1
4476-10-7I-385	2010-10-07 0(	855609.875	1147553	4882.299805	559	I	508	525	1
4476-10-7I-395	2010-10-29 0(	855945	1146964	4904.5	660	I	600	615	1
4476-10-7I-396	2010-11-19 0(	855993	1146944	4908.700195	660	I	603	613	1
4476-10-7I-397	2010-12-02 0(	855886	1146881	4903	660	I	600	610	1
4476-10-7I-398	2010-11-08 0(	855981	1146841	4910.399902	660	I	605	615	1
4476-10-7I-399	2010-11-19 0(	855936	1146671	4911.700195	679	I	605	620	1
4476-10-7I-400	2010-11-30 0(	855998.875	1146650	4915.899902	680	I	615	625	1
4476-10-7I-401	2010-11-04 0(	855903	1146569	4920.359863	680	I	615	632	1
4476-10-7I-402	2010-11-19 0(	855970	1146548	4920.100098	680	I	615	630	1
4476-10-7I-405	2010-11-08 0(	856039.375	1148001	4886.299805	640	I	593	609	1
4476-10-7P-153	2010-10-29 0(	855948.875	1146905	4906.899902	660	R	602	614	1
4476-10-7P-154	2010-11-12 0(	855949.875	1146755	4910	660	R	603	617	1
4476-10-7P-155	2010-12-02 0(	855951	1146607	5000	680	R	610	627	1
4476-10-7P-156	2010-10-06 0(	855813	1148041	4903.879883	640	I	548	557	1
4476-10-7P-157	2010-10-08 0(	855827.875	1147955	4912.600098	660	R	557	568	1
4476-10-7P-158	2010-10-19 0(	855836.125	1147867	4921.200195	660	R	557	578	1
4476-10-7P-159	2010-10-14 0(	855828.875	1147777	4916	660	R	552	576	1
4476-10-7P-160	2010-10-14 0(	855849	1147688	4911.700195	600	R	548	572	1
4476-10-7P-161	2010-10-08 0(	855852.875	1147598	4904.899902	680	R	541	563	1
4476-10-7P-162	2010-10-14 0(	855850	1147518	4901.399902	580	R	532	558	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-10-7P-163	2010-12-01 0(	855847	1147444	5000	580	R	527	552	1
4476-10-7P-164	2010-10-22 0(	855799	1147354	4894.470215	660	R	527	553	1
4476-10-7P-165	2010-10-15 0(	855882	1147347	4903.799805	657	R	532	553	1
4476-10-7P-166	2010-10-19 0(	855793	1147270	4894.140137	660	R	522	547	1
4476-10-7P-167	2010-10-19 0(	855891.8125	1147273	4904.100098	660	R	530	555	1
4476-10-7P-168	2010-10-20 0(	855816	1147180	4896.180176	660	R	522	548	1
4476-10-7P-169	2010-10-19 0(	855899.875	1147198	4903.799805	660	R	529	557	0
4476-10-7P-169B	2011-11-14 0(	855900	1147200	4500	565	R	0	0	1
4476-10-7P-170	2010-11-01 0(	855913	1147118	4903.399902	660	R	526	550	1
4476-10-7P-171	2010-10-28 0(	855842.875	1147082	4898.399902	660	R	522	547	1
4476-10-7P-172	2010-11-01 0(	855902	1147008	4902.200195	660	R	521	545	1
4476-10-7P-173	2010-10-29 0(	855899.875	1146908	4903.100098	660	R	523	551	1
4476-10-7P-174	2010-11-01 0(	855887	1146797	4905.27002	660	R	535	553	1
4476-10-7P-175	2010-12-01 0(	855933.875	1146724	4910	663	R	535	555	1
4476-10-7P-176	2010-11-23 0(	855971.875	1146629	4914.600098	680	R	540	557	1
4476-10-7P-177	2010-11-12 0(	856092	1146630	4923.5	600	I	550	567	1
4476-10-7P-178	2010-11-08 0(	856102	1146536	4925.799805	600	R	552	569	1
4476-10-7P-179	2010-10-01 0(	855587.875	1147847	4892	560	R	513	525	1
4476-10-7P-180	2010-10-05 0(	855594	1147761	4887.75	560	R	507	528	1
4476-10-7P-181	2010-10-06 0(	855617	1147685	4887.100098	560	R	510	525	0
4476-10-7P-181B	2011-03-15 0(	855620	1147690	5000	550	R	508	525	1
4476-10-7P-182	2010-10-13 0(	855644	1147615	4886.930176	580	R	511	530	0
4476-10-7P-183	2010-11-08 0(	856049.375	1148061	4880.700195	640	R	584	604	1
4476-3-7I-118	2010-07-14 0(	856171	1148513	4873.859863	620	I	564	578	1
4476-3-7I-119	2010-06-09 0(	856104.875	1148482	4868.700195	620	I	561	579	1
4476-3-7I-120	2010-07-15 0(	856018	1148411	4865.200195	620	I	562	581	1
4476-3-7I-121B	2010-07-27 0(	856070	1148347	4868.899902	560	I	561	581	1
4476-3-7I-122	2010-07-20 0(	856131.875	1148400	4870.5	620	I	560	580	1
4476-3-7I-123	2010-07-20 0(	856180.875	1148395	4872.799805	620	I	562	582	1
4476-3-7I-389	2010-10-26 0(	856156	1148264	4873.129883	620	I	570	582	1
4476-3-7I-390	2010-10-27 0(	856028.125	1148242	4867.899902	620	I	573	593	1
4476-3-7I-391	2010-10-27 0(	855953	1148183	4878.100098	620	I	577	602	1
4476-3-7I-392	2010-10-21 0(	855970	1148136	4882	640	I	580	607	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-3-7I-393	2010-10-21 0(	856020.875	1148107	4880	630	I	583	599	1
4476-3-7I-394B	2011-02-28 0(	856075	1148149	4872.259766	620	I	572	589	1
4476-3-7I-73	2010-06-16 0(	855920	1148915	4866.024902	610	I	585	595	1
4476-3-7I-74B	2010-10-07 0(	855900	1148850	5000	600	I	570	587	1
4476-3-7I-75	2010-06-17 0(	855919	1148814	4860.450195	600	I	569	577	1
4476-3-7I-77	2010-06-04 0(	855803	1148798	4854.850098	600	I	565	580	1
4476-3-7I-78	2010-06-17 0(	855851	1148871	4859.399902	610	I	574	587	1
4476-3-7I-79	2010-06-03 0(	855731.875	1148857	4855.100098	600	I	573	587	1
4476-3-7I-80	2010-06-03 0(	855776	1148920	4857.169922	610	I	575	589	1
4476-3-7I-81	2010-06-07 0(	855755	1148981	4857.669922	610	I			
4476-3-7I-85	2010-06-02 0(	855736.875	1149105	4858.319824	610	I	577	585	1
4476-3-7I-87	2010-06-02 0(	855676.875	1149244	4859.930176	610	I	592	603	1
4476-3-7I-88	2010-06-01 0(	855591	1149249	4857.459961	610	I	582	595	1
4476-3-7I-89	2010-06-02 0(	855633.125	1149379	4857.919922	610	I	588	605	1
4476-3-7I-90	2010-06-01 0(	855701.125	1149374	4859.779785	610	I	578	592	1
4476-3-7I-91	2010-05-20 0(	855638	1149493	4857.240234	640	I	575	594	1
4476-3-7I-92	2010-06-02 0(	855711.125	1149508	4858.77002	620	I	584	608	1
4476-3-7I-93	2010-05-21 0(	855600	1149538	4861	610	I	571	585	1
4476-3-7I-94	2010-06-07 0(	855723	1149601	4858.02002	620	I	578	588	1
4476-3-7I-95	2010-05-17 0(	855676	1149610	4857.25	610	I	580	595	0
4476-3-7I-95B	2010-10-14 0(	855676	1149605	5000	610	I	584	599	1
4476-3-7P-151	2010-10-29 0(	856086.875	1148226	4870.899902	620	R	564	581	1
4476-3-7P-152	2010-10-22 0(	856016	1148171	4874.649902	620	R	570	598	1
4476-3-7P-32	2010-06-08 0(	855951	1148864	4863.700195	610	R	563	583	1
4476-3-7P-33	2010-06-04 0(	855860.125	1148812	4854.850098	600	R	566	587	1
4476-3-7P-36	2010-06-03 0(	855706.875	1149044	4857.490234	610	R	575	593	1
4476-3-7P-40	2010-05-28 0(	855667	1149549	4857.140137	620	R	574	599	1
4476-3-7P-52	2010-07-14 0(	856122.875	1148354	4870.600098	620	R	561	582	1
4476-4-7I-1	2010-10-18 0(	855062	1148766	5000	630	I	593	603	1
4476-4-7I-107	2010-06-08 0(	855281	1149603	4844.160156	610	I	568	580	1
4476-4-7I-109	2010-06-28 0(	855220.875	1149599	4841.259766	610	I	572	590	1
4476-4-7I-111	2010-06-29 0(	855175	1149795	4808.509766	580	I	545	555	1
4476-4-7I-113	2010-06-23 0(	855135	1149674	4821.140137	590	I	560	573	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-4-7I-115	2010-06-22 0(	855084	1149508	4839.240234	610	I	572	582	1
4476-4-7I-116	2010-06-17 0(	855184	1149453	4846.700195	610	I	572	587	1
4476-4-7I-117	2010-06-21 0(	855130	1149444	4846.089844	610	I	578	590	0
4476-4-7I-117A	2010-10-13 0(	855130	1149444	4846.100098	610	I			
4476-4-7I-117B	2010-10-13 0(	855130	1149444	4846.100098	610	I	574	587	1
4476-4-7I-126	2010-08-03 0(	854679.875	1148143	4834	620	I	565	582	1
4476-4-7I-129	2010-08-06 0(	854668	1148259	4834.799805	620	I	566	581	1
4476-4-7I-13	2010-08-31 0(	854830.875	1148414	4837.700195	620	I	570	595	1
4476-4-7I-130	2010-08-02 0(	854714	1148255	4834.799805	620	I	562	577	1
4476-4-7I-131	2010-08-10 0(	854754.125	1148324	4835.799805	630	I	565	583	1
4476-4-7I-132	2010-07-22 0(	854692	1148370	4835.299805	630	I	569	584	1
4476-4-7I-133	2010-08-10 0(	854806	1148359	4836.5	630	I	566	586	1
4476-4-7I-134	2010-08-11 0(	854750.875	1148440	4837	620	I			
4476-4-7I-14	2010-08-13 0(	854872	1148429	5000	630	I	590	615	1
4476-4-7I-15	2010-08-17 0(	854917	1148405	5000	630	I	603	613	1
4476-4-7I-158	2010-06-28 0(	854873	1149177	4842.200195	520	I	481	496	1
4476-4-7I-159	2010-06-29 0(	854819.125	1149194	4840	520	I	479	493	1
4476-4-7I-160	2010-06-25 0(	854905	1149280	4841.410156	520	I	479	494	1
4476-4-7I-161	2010-06-29 0(	854834	1149288	4839.5	520	I	476	491	1
4476-4-7I-166	2010-08-02 0(	854913	1149552	4803.600098	500	I	451	464	1
4476-4-7I-168	2010-06-29 0(	854891.875	1149643	4801.399902	480	I	450	457	1
4476-4-7I-169	2010-07-01 0(	854818.125	1149631	4788.799805	480	I	435	445	1
4476-4-7I-171	2010-07-07 0(	854678	1149881	4814.689941	500	I	440	453	1
4476-4-7I-173	2010-07-08 0(	854692	1149775	4818.759766	500	R	443	465	1
4476-4-7I-174	2010-07-01 0(	854790	1149700	4786.220215	480	I	400	422	1
4476-4-7I-175	2010-07-13 0(	854715.3125	1149686	4790.52002	500	R	402	430	1
4476-4-7I-176	2010-07-06 0(	854730.125	1149595	4789.970215	480	R	409	434	1
4476-4-7I-178	2010-06-29 0(	854749.875	1149460	4807.700195	510	I	447	471	1
4476-4-7I-180	2010-06-30 0(	854774	1149270	4837.819824	540	I	475	485	1
4476-4-7I-181	2010-07-01 0(	854729	1149265	4835.830078	540	I	477	494	1
4476-4-7I-185	2010-07-02 0(	854654	1149605	4781.740234	480	R	432	452	1
4476-4-7I-186	2010-07-13 0(	854604.125	1149640	4790.120117	500	I	433	453	1
4476-4-7I-188	2010-07-02 0(	854686	1149242	4830.689941	540	I	465	485	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-4-7I-19	2010-07-27 0(	855139.875	1148396	4860.399902	640	I	589	607	1
4476-4-7I-190	2010-07-01 0(	854591	1149278	4806.640137	500	I	445	460	1
4476-4-7I-191	2010-07-06 0(	854532.875	1149377	4787.379883	480	R	435	452	1
4476-4-7I-193	2010-07-09 0(	854587	1148905	4834.899902	540	I	517	533	1
4476-4-7I-194	2010-07-08 0(	854521	1148878	4833.910156	540	I	522	538	1
4476-4-7I-196B	2010-10-15 0(	854565	1149005	4834	540	I	497	520	1
4476-4-7I-197	2010-07-06 0(	854565.875	1149083	4833.430176	540	I	496	510	1
4476-4-7I-198	2010-07-06 0(	854484	1149090	4831.290039	540	I	493	510	1
4476-4-7I-199	2010-07-21 0(	854625.875	1148464	4835.200195	440	I			
4476-4-7I-200	2010-07-21 0(	854693	1148442	4836.399902	440	I			
4476-4-7I-202	2010-07-23 0(	854601	1148389	4834.560059	440	I			
4476-4-7I-21	2010-07-28 0(	855005.875	1148312	4851.600098	640	I	590	613	1
4476-4-7I-213	2010-07-27 0(	854677.875	1148172	4834.100098	4340	I			
4476-4-7I-214	2010-08-05 0(	854767.875	1148150	4834.700195	430	I			
4476-4-7I-215	2010-08-31 0(	854791.875	1148189	4835.100098	440	BL			
4476-4-7I-216	2010-07-29 0(	854870.875	1148205	4837.5	430	I			
4476-4-7I-219	2010-08-03 0(	854594	1148093	4833.910156	430	I			
4476-4-7I-22	2010-07-29 0(	854906.875	1148314	4840.200195	630	I	585	612	1
4476-4-7I-223	2010-07-23 0(	855166	1148438	4856.470215	520	I			
4476-4-7I-226	2010-07-16 0(	854992.8125	1148544	4841.399902	520	I			
4476-4-7I-228	2010-07-15 0(	854998	1148657	4842.600098	520	I			
4476-4-7I-23	2010-08-17 0(	854849.875	1148305	4837.200195	630	I	578	610	1
4476-4-7I-231	2010-08-27 0(	854484.875	1149810	4794.299805	500	I	443	463	1
4476-4-7I-232	2010-08-31 0(	854485	1149680	4783.700195	500	I	440	460	1
4476-4-7I-233	2010-09-02 0(	854655	1149457	4856.399902	500	I	448	466	1
4476-4-7I-234	2010-08-23 0(	854494.875	1149245	4805.899902	500	I	460	475	1
4476-4-7I-235	2010-08-25 0(	854451	1149213	4806	500	I	460	477	1
4476-4-7I-236	2010-08-24 0(	854387	1149221	4792.799805	500	I	447	457	1
4476-4-7I-239	2010-08-20 0(	854911	1149199	4843.5	520	I	482	497	1
4476-4-7I-24	2010-08-16 0(	854815	1148348	4836.700195	639	I	590	610	1
4476-4-7I-25	2010-08-09 0(	854754	1148335	4835.700195	630	I	590	610	1
4476-4-7I-26	2010-07-29 0(	854763	1148243	4835.200195	620	I			
4476-4-7I-27	2010-08-16 0(	854830.875	1148238	4836.299805	620	I	575	597	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-4-7I-28	2010-07-30 0(	854903	1148189	4839.700195	620	I	583	608	1
4476-4-7I-29	2010-08-05 0(	854943	1148217	4844.200195	630	I	590	615	1
4476-4-7I-31	2010-07-04 0(	854981	1148109	4842.899902	620	I	590	610	1
4476-4-7I-4	2010-07-22 0(	855090.875	1148663	4843.700195	620	I	592	604	1
4476-4-7I-403	2010-10-18 0(	854521.625	1149491	4782	500	I	432	452	1
4476-4-7I-404	2010-10-22 0(	854520	1149490	4799	500	I	453	472	1
4476-4-7I-6	2010-07-22 0(	855050.875	1148576	4841.799805	620	I	591	606	1
4476-4-7I-64	2010-07-20 0(	854627	1148527	4836.379883	620	I	582	592	1
4476-4-7I-74	2010-10-07 0(	855724	1149601	5000	600	I	0	0	
4476-4-7I-8	2010-08-02 0(	854820.875	1148609	4841.5	640	I	601	612	1
4476-4-7I-96	2010-05-17 0(	855551	1149598	4854	610	I	580	590	1
4476-4-7I-9B	2010-12-07 0(	854893	1148586	5000	615	I	602	612	1
4476-4-7P-1	2010-07-29 0(	855101	1148723	4845.799805	620	R	596	610	1
4476-4-7P-10	2010-07-29 0(	854793	1148290	4836	630	R	590	610	1
4476-4-7P-101	2010-08-26 0(	854514.875	1149750	4791	500	R	446	469	1
4476-4-7P-102	2010-08-30 0(	854573	1149555	4780.600098	500	R	434	455	1
4476-4-7P-103	2010-09-02 0(	854582	1149454	4786.399902	500	R	438	458	1
4476-4-7P-104	2010-09-01 0(	854645	1149382	4806.109863	500	R	457	472	1
4476-4-7P-105	2010-08-25 0(	854439	1149270	4779.399902	500	R	429	450	1
4476-4-7P-109	2010-08-27 0(	854535	1149645	4790.700195	500	R	440	465	1
4476-4-7P-11	2010-08-03 0(	854890	1148256	4839.319824	630	R	580	612	1
4476-4-7P-12	2010-08-03 0(	854958	1148278	4846.580078	630	R	592	618	1
4476-4-7P-13B	2011-02-07 0(	854954	1148167	5000	620	R	585	611	1
4476-4-7P-15	2010-07-04 0(	854708	1148060	4834.799805	620	R			
4476-4-7P-2	2010-07-21 0(	855030	1148632	4842.600098	620	I	596	606	1
4476-4-7P-3	2010-08-12 0(	854863	1148630	4841.5	630	R	604	614	1
4476-4-7P-4	2010-08-13 0(	854841.875	1148555	4840.600098	640	I	597	614	1
4476-4-7P-42	2010-05-20 0(	855535	1149646	4857	610	R	568	590	1
4476-4-7P-47	2010-07-01 0(	855162	1149728	4818.450195	580	R	554	569	1
4476-4-7P-48	2010-06-25 0(	855158	1149622	4826.899902	600	R	562	579	1
4476-4-7P-5	2010-08-16 0(	854829.875	1148473	4838.700195	620	R	580	607	1
4476-4-7P-54	2010-09-01 0(	854684	1148203	4834.439941	620	R	562	582	1
4476-4-7P-55	2010-08-06 0(	854694.875	1148313	4835.200195	630	R	567	584	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-4-7P-56	2010-08-10 0(	854749.875	1148381	4836.299805	630	R	568	588	1
4476-4-7P-6	2010-08-18 0(	854774.875	1148392	4836.5	630	R	565	585	1
4476-4-7P-60	2010-07-26 0(	854629.875	1148284	4834.299805	620	I	572	588	1
4476-4-7P-69	2010-07-06 0(	854881.125	1149431	4828.640137	500	R	465	490	1
4476-4-7P-7	2010-08-17 0(	854871.875	1148363	4838	630	R	584	614	1
4476-4-7P-70	2010-07-01 0(	854880	1149502	4812.759766	500	R	451	475	1
4476-4-7P-73	2010-07-12 0(	854709.875	1149831	4820.200195	500	I	450	465	1
4476-4-7P-74	2010-07-07 0(	854740	1149750	4816.990234	500	I	443	463	1
4476-4-7P-75	2010-06-30 0(	854761	1149645	4845.470215	480	I	0	0	1
4476-4-7P-76B	2010-09-15 0(	854793	1149579	4792.759766	480	I	420	435	1
4476-4-7P-77	2010-07-02 0(	854794	1149500	4804.029785	510	R	444	470	1
4476-4-7P-78	2010-07-06 0(	854796.125	1149420	4823.689941	510	R	455	480	1
4476-4-7P-79	2010-07-07 0(	854745.8125	1149332	4834.100098	520	R	470	492	1
4476-4-7P-8	2010-08-25 0(	854969.875	1148361	4845.600098	630	I	597	620	1
4476-4-7P-80	2010-07-07 0(	854743	1149398	4819.160156	510	R	460	482	1
4476-4-7P-81	2010-07-01 0(	854702.125	1149495	4795.850098	500	R	440	468	1
4476-4-7P-82	2010-07-02 0(	854688	1149551	4787.919922	500	I	405	420	1
4476-4-7P-83	2010-07-14 0(	854674	1149657	4787.25	500	I	436	459	1
4476-4-7P-85	2010-06-30 0(	854575	1149335	4799.129883	500	I	453	470	1
4476-4-7P-87	2010-07-07 0(	854524	1149041	4833.169922	540	R	493	515	1
4476-4-7P-88	2010-07-30 0(	854644.125	1148406	4835.470215	440	R			
4476-4-7P-9	2010-07-26 0(	855065.875	1148401	4851.299805	620	R			
4476-4-7P-92	2010-09-01 0(	854660	1148229	4834.47998	430	R			
4476-4-7P-93	2010-07-28 0(	854731.875	1148196	4834.700195	430	R			
4476-4-7P-95	2010-07-27 0(	854624.875	1148144	4833.399902	430	R			
4476-4-7P-96	2010-08-11 0(	854714	1148124	4834.299805	430	R			
4476-4-7P-97	2010-08-06 0(	854649.875	1148072	4834.100098	430	R			
4476-4-7P-9B	2010-08-20 0(	855065.875	1148401	4851.299805	580	I	580	600	1
4476-4-7WW-1	2010-03-26 0(	854286.6875	1148410	4829.080078	1200	MISC			
4476-9-7I-246	2010-08-31 0(	854598	1147094	4846.799805	640	R	590	611	1
4476-9-7I-247	2010-09-08 0(	854640	1146984	4840.890137	630	I	568	580	1
4476-9-7I-249	2010-09-01 0(	854650	1146779	4851.359863	650	I	595	615	1
4476-9-7I-250	2010-09-01 0(	854704.875	1146780	4852	550	I	600	620	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-9-7I-250A	2010-09-14 0(	854704.875	1146780	4852	650	I			
4476-9-7I-251	2010-09-02 0(	854724.875	1146669	4858.399902	650	I	605	627	1
4476-9-7I-252	2010-09-01 0(	854665	1146653	4858.350098	650	I	598	622	1
4476-9-7I-253	2010-09-02 0(	854646	1146593	4861	650	I	605	629	1
4476-9-7I-254	2010-09-07 0(	854773	1146595	4863.700195	650	I	620	633	1
4476-9-7I-255	2011-02-18 0(	854757	1146552	5000	640	I	615	636	1
4476-9-7I-256	2010-09-07 0(	854739	1146498	4869.580078	660	I	620	637	1
4476-9-7I-257	2010-09-03 0(	854643	1146498	4866.22998	660	I	618	631	1
4476-9-7I-258	2010-09-08 0(	854623	1146428	4870.790039	660	I	620	633	1
4476-9-7I-259	2010-09-08 0(	854732	1146406	4875.549805	670	I	630	642	1
4476-9-7I-260	2010-09-07 0(	854732	1146358	4877.790039	670	I	630	644	1
4476-9-7I-261	2010-09-02 0(	854646	1146320	4878	670	I	633	647	1
4476-9-7I-262	2011-02-23 0(	854652	1146255	5000	660	I	638	652	1
4476-9-7I-263	2011-02-18 0(	854700	1146254	5000	670	I	643	653	1
4476-9-7I-264	2010-09-08 0(	854761	1146264	4886.609863	670	I	645	653	1
4476-9-7I-265	2010-09-10 0(	854791	1146163	4895.370117	680	I	653	662	1
4476-9-7I-266	2010-09-09 0(	854707.875	1146150	4892.700195	680	I	637	659	1
4476-9-7I-267	2010-09-03 0(	854631	1146145	4889.580078	680	I	637	655	1
4476-9-7I-268	2010-09-10 0(	854627	1146059	4897.879883	680	I	645	664	1
4476-9-7I-269	2010-09-10 0(	854717	1146060	4900.850098	680	I	648	665	1
4476-9-7I-270	2010-09-13 0(	854618	1145972	4907.870117	700	I	653	673	1
4476-9-7I-271	2011-03-01 0(	854706	1145950	4912.029785	700	I	657	678	1
4476-9-7I-272	2010-09-10 0(	854604	1145891	4918.859863	700	I	665	682	1
4476-9-7I-273	2010-09-09 0(	854702.875	1145871	4922.399902	700	I	662	678	1
4476-9-7I-274	2010-09-15 0(	854579.875	1145816	4925.399902	720	I	675	688	1
4476-9-7I-275	2010-09-13 0(	854677	1145796	4934.819824	720	I	678	692	1
4476-9-7I-276	2010-09-14 0(	854564.875	1145738	4926.5	720	I	678	687	1
4476-9-7I-277	2010-09-14 0(	854665.875	1145719	4936.700195	720	I	682	697	1
4476-9-7I-278	2010-09-16 0(	854624.875	1145631	4924.200195	720	I	672	684	1
4476-9-7I-279	2010-09-15 0(	854635.875	1145528	4914.600098	700	I	662	677	1
4476-9-7I-280	2010-09-15 0(	854657.875	1145418	4905.899902	680	I	657	668	1
4476-9-7I-282	2010-09-15 0(	854630.875	1145198	4891.100098	680	I	637	650	1
4476-9-7I-283A	2010-09-30 0(	854601.6875	1147156	4852.5	640	I	597	617	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-9-7I-284	2010-09-15 0(	854642.3125	1146871	4846.799805	640	I	570	585	1
4476-9-7I-285	2010-09-17 0(	854619.625	1146701	4855.233887	660	I			
4476-9-7I-286	2010-09-17 0(	854603	1146631	4857.600098	660	I			
4476-9-7I-287	2010-09-20 0(	854579	1146553	4861.950195	660	I			
4476-9-7I-288	2010-09-21 0(	854583.1875	1146469	4868.5	660	I			
4476-9-7I-289	2010-10-05 0(	854682	1146486	4866.870117	660	I			
4476-9-7I-290	2010-09-29 0(	854608.875	1146394	4872.899902	660	I			
4476-9-7I-291	2010-10-01 0(	854701.375	1146433	4870.899902	660	I			
4476-9-7I-292	2010-10-06 0(	854619.3125	1146316	4878.200195	680	I			
4476-9-7I-293	2010-10-07 0(	854702.6875	1146334	4878.299805	680	I			
4476-9-7I-294	2010-09-22 0(	854617	1146230	4883.430176	680	I			
4476-9-7I-295	2010-09-22 0(	854556	1146167	4888.5	580	I			
4476-9-7I-296	2010-09-28 0(	854524.875	1146122	4893.100098	580	I			
4476-9-7i-297	2010-09-28 0(	854558.875	1145996	4912.299805	580	I			
4476-9-7I-298	2010-09-29 0(	854517	1145916	4909.299805	580	I			
4476-9-7I-299	2010-09-28 0(	854485	1145851	4910.700195	583	I			
4476-9-7I-300	2010-09-30 0(	854427.875	1145813	4905.5	580	I			
4476-9-7I-301	2010-09-28 0(	854469	1145759	4913	600	I			
4476-9-7I-305	2010-09-20 0(	854436	1145559	4906.549805	600	I	536	557	1
4476-9-7I-306	2010-09-16 0(	854528.8125	1145565	4912.299805	600	I	547	561	1
4476-9-7I-307	2010-09-20 0(	854600	1145562	4916.359863	610	I	550	564	0
4476-9-7I-309	2010-09-24 0(	854475.875	1145445	4900	580	I	532	552	1
4476-9-7I-310	2010-09-22 0(	854599	1145463	4907.359863	600	I	533	555	1
4476-9-7I-311	2010-09-21 0(	854683.875	1145474	4910.700195	600	I	553	570	1
4476-9-7I-312	2011-03-01 0(	854707.875	1145404	4906.600098	590	I	544	570	1
4476-9-7I-313	2011-03-08 0(	854510	1145353	5000	570	I	519	545	1
4476-9-7I-314	2010-09-21 0(	854604.875	1145380	4900.899902	600	I	529	552	1
4476-9-7I-315	2010-09-16 0(	854519.875	1145294	4891.399902	580	I	537	552	1
4476-9-7I-316	2010-09-24 0(	854595.875	1145286	4894.700195	600	I	540	552	1
4476-9-7I-317	2010-09-22 0(	854680	1145284	4899.5	580	I	542	558	1
4476-9-7I-318	2010-09-17 0(	854496	1145217	4886.040039	580	I	533	546	1
4476-9-7I-319	2010-09-28 0(	854594.875	1145197	4889.799805	580	I	515	546	1
4476-9-7I-320	2010-09-28 0(	854688.875	1145212	4897.299805	580	I	543	558	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-9-7I-321	2010-09-30 0(	854508.8125	1145113	4881.799805	580	I	504	532	1
4476-9-7I-322	2010-09-24 0(	854591.875	1145130	4886	580	I	513	540	1
4476-9-7I-324	2010-09-16 0(	854729	1145141	4900	580	I	547	558	1
4476-9-7I-38	2010-09-07 0(	854558	1147854	4870.950195	650	I	590	613	1
4476-9-7I-39	2010-08-17 0(	854629.125	1147872	4851.600098	620	I	575	598	1
4476-9-7I-40	2010-08-30 0(	854462	1147722	4874.899902	640	I	598	612	1
4476-9-7I-411	2011-06-24 0(	854685	1145360	4900	545	I	0	0	1
4476-9-7I-42	2011-02-24 0(	854570	1147738	5000	660	I	607	622	1
4476-9-7I-43	2010-09-08 0(	854663	1147768	4858.75	630	I	580	605	1
4476-9-7I-44	2010-08-25 0(	854478	1147638	4868.899902	642	I	602	618	1
4476-9-7I-45	2010-08-26 0(	854585	1147650	4876.200195	640	I	605	622	1
4476-9-7I-46	2010-09-08 0(	854671	1147656	4875.740234	660	I	600	615	1
4476-9-7I-47	2010-12-20 0(	854483	1147558	5000	640	I	595	605	1
4476-9-7I-48	2010-08-30 0(	854585.875	1147543	4871.899902	660	I	600	615	1
4476-9-7I-49	2011-01-14 0(	854700	1147559	5000	660	I	612	627	1
4476-9-7I-50A	2010-12-13 0(	854477	1147446	5000	630	I	580	598	1
4476-9-7I-51	2010-09-03 0(	854585	1147468	4863.799805	650	I	593	610	1
4476-9-7I-52	2010-08-18 0(	854704.875	1147471	4878.700195	660	I	620	645	1
4476-9-7I-53	2010-08-25 0(	854480.875	1147368	4846.100098	620	I	573	593	1
4476-9-7I-54	2010-08-26 0(	854601.125	1147379	4863.100098	640	I	600	620	1
4476-9-7I-55	2010-08-24 0(	854700.875	1147391	4875.200195	650	I	609	629	1
4476-9-7I-56	2010-08-24 0(	854517	1147270	4846.600098	630	I	580	596	0
4476-9-7I-57	2010-08-27 0(	854606	1147290	4858.5	640	I	595	615	1
4476-9-7I-58	2010-08-25 0(	854713.875	1147295	4875.600098	650	I	612	632	1
4476-9-7I-59B	2011-04-12 0(	854534	1147487	5000	620	I	618	628	1
4476-9-7I-61	2010-08-27 0(	854659.875	1147461	4874.100098	650	I	632	644	1
4476-9-7I-65	2011-02-14 0(	854590	1147562	5000	660	I	625	637	1
4476-9-7I-66	2010-08-26 0(	854644	1147609	4878.22998	660	I	632	646	1
4476-9-7I-67	2010-08-27 0(	854731	1147540	4879.799805	660	I	634	649	1
4476-9-7I-68	2010-08-31 0(	854668.875	1147670	4873.600098	660	I	622	639	1
4476-9-7I-69	2010-08-31 0(	854781.875	1147630	4860.600098	640	I	615	625	1
4476-9-7P-111	2010-08-31 0(	854619.8125	1147042	4845.299805	640	I	595	615	1
4476-9-7P-114	2010-09-02 0(	854678.875	1146712	4855.5	660	R	600	622	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-9-7P-115	2011-02-17 0(	854705	1146604	5000	640	R	606	632	1
4476-9-7P-116	2010-09-08 0(	854688	1146545	4864.890137	650	R	617	635	1
4476-9-7P-117	2011-02-18 0(	854697	1146450	5000	650	R	623	639	1
4476-9-7P-118	2010-09-08 0(	854677	1146379	4875.02002	670	R	625	640	1
4476-9-7P-119	2010-09-03 0(	854712	1146301	4881.160156	680	R	635	649	1
4476-9-7P-120	2010-09-10 0(	854734	1146204	4891.609863	700	R	647	657	1
4476-9-7P-121	2010-09-09 0(	854661	1146200	4886	680	R	638	653	1
4476-9-7P-123	2010-09-13 0(	854669	1146014	4904	700	R	650	672	1
4476-9-7P-124	2010-09-09 0(	854658	1145922	4914.899902	700	R	657	679	1
4476-9-7P-125	2010-09-10 0(	854638	1145843	4927.189941	720	R	670	691	1
4476-9-7P-126	2010-09-22 0(	854624.875	1145764	4934.299805	720	R	680	697	1
4476-9-7P-128	2010-09-15 0(	854664	1145584	4920.5	700	R	667	682	1
4476-9-7P-129	2010-09-14 0(	854639.875	1145472	4909.700195	690	R	659	669	1
4476-9-7P-130	2010-09-15 0(	854684.875	1145368	4903.299805	680	R	653	665	1
4476-9-7P-131	2010-09-15 0(	854640.875	1145257	4894.899902	680	R	642	655	1
4476-9-7P-133	2010-09-29 0(	854631.3125	1146513	4865	660	R			
4476-9-7P-135	2010-09-24 0(	854661.125	1146282	4880.5	680	R			
4476-9-7P-136	2010-09-24 0(	854584.875	1146113	4891.299805	580	R			
4476-9-7P-137	2010-09-29 0(	854567.875	1145937	4911.600098	580	R			
4476-9-7P-138	2010-09-30 0(	854547	1145866	4917.100098	600	R			
4476-9-7P-139	2011-03-07 0(	854495	1145804	5000	580	R			
4476-9-7P-143	2010-09-17 0(	854487.875	1145517	4907.600098	600	R	538	559	1
4476-9-7P-144	2010-09-16 0(	854564	1145513	4910.399902	640	R	545	561	1
4476-9-7P-145	2010-09-16 0(	854549.875	1145414	4901	600	R	547	552	1
4476-9-7P-146	2010-09-22 0(	854562	1145335	4500	580	R	526	554	0
4476-9-7P-146A	2011-10-28 0(	854562	1145335	4500	565	R	0	0	1
4476-9-7P-147	2010-09-24 0(	854639.875	1145330	4899	600	R	540	559	1
4476-9-7P-148	2010-09-30 0(	854550.875	1145243	4890.399902	580	R	535	551	1
4476-9-7P-149	2010-09-28 0(	854539	1145174	4885.899902	580	R	508	540	1
4476-9-7P-150	2010-09-29 0(	854649	1145159	4891	580	R	519	549	1
4476-9-7P-16	2011-01-24 0(	854580	1147922	5000	620	R	578	598	1
4476-9-7P-18	2010-08-27 0(	854527.125	1147692	4878.100098	640	R	605	625	1
4476-9-7P-188	2011-02-23 0(	854644	1146450	5000	640	R			1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4476-9-7P-189	2011-06-14 0(	854648	1145421	4905	590	R	542	567	0
4476-9-7P-189A	2011-10-12 0(	854647	1145421	4500	580	R	0	0	1
4476-9-7P-190	2011-06-15 0(	854641	1145245	4893	580	R	536	554	0
4476-9-7P-190A	2011-10-12 0(	854641	1145245	4500	570	R	0	0	1
4476-9-7P-24B	2011-03-16 0(	854536	1147414	5000	620	R	582	602	1
4476-9-7P-25	2010-08-26 0(	854645	1147433	4871	650	R	605	630	1
4476-9-7P-26	2010-08-25 0(	854549.875	1147333	4852.799805	640	R	586	610	1
4476-9-7P-27	2010-08-26 0(	854657	1147336	4867.799805	650	R	605	626	1
4476-9-7P-28	2010-08-27 0(	854587.875	1147491	4865.899902	660	R	620	634	1
4476-9-7P-29	2010-08-30 0(	854662	1147532	4875.799805	650	R	629	643	1
4476-9-7P-30	2010-08-24 0(	854709	1147610	4875.100098	650	R	630	648	1
4477-1-10013	2012-08-13 0(	834393.5	1152020	4678.23584	500	I	430	443	1
4477-1-10014	2012-07-10 0(	834427.3125	1151966	4679.079102	500	R	429	447	1
4477-1-10015	2012-07-10 0(	834390.375	1151937	4677.694824	500	I	436	463	1
4477-1-10016	2012-07-09 0(	834429.875	1151897	4682.115234	500	R	438	464	1
4477-1-10017	2012-07-11 0(	834393.625	1151854	4667.540039	500	I	432	456	1
4477-1-10018	2012-07-10 0(	834439.8125	1151814	4681.291992	500	R	440	466	1
4477-1-10019	2012-08-09 0(	834394.875	1151767	4687.673828	500	I	453	478	1
4477-1-10020	2012-07-09 0(	834443.3125	1151738	4689.450195	520	R	454	478	1
4477-1-10021	2012-07-09 0(	834427.5	1151678	4698.315918	520	I	462	478	1
4477-1-10022	2012-07-10 0(	834480.5	1152019	4692.096191	500	I	435	458	1
4477-1-10023	2012-07-09 0(	834526.3125	1151975	4695.787109	500	R	440	458	1
4477-1-10024	2012-07-10 0(	834480.875	1151934	4690.361816	500	I	435	454	1
4477-1-10025	2012-07-09 0(	834525.3125	1151894	4696.814941	500	R	441	465	1
4477-1-10026	2012-08-07 0(	834470.8125	1151854	4680.520996	500	I	432	453	1
4477-1-10027	2012-07-10 0(	834526.625	1151823	4687.442871	520	R	435	458	1
4477-1-10028	2012-08-10 0(	834486.1875	1151784	4694.900879	500	I	450	473	1
4477-1-10029	2012-07-09 0(	834534	1151735	4698.849121	520	R	455	482	1
4477-1-10030	2012-07-09 0(	834488	1151692	4696.566895	520	I	457	484	1
4477-1-10031	2012-07-09 0(	834571.375	1152017	4702.457031	520	I	440	474	1
4477-1-10032	2012-07-09 0(	834615.625	1151978	4703.438965	520	R	445	475	1
4477-1-10033	2012-07-09 0(	834569.625	1151929	4699.443848	520	I	443	460	1
4477-1-10034	2012-07-10 0(	834616.875	1151894	4703.602051	520	R	449	479	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4477-1-10035	2012-08-10 0(	834574.8125	1151857	4698.762207	520	I	445	476	1
4477-1-10036A	2012-08-30 0(	834619.375	1151814	4702.931152	520	R	455	486	1
4477-1-10037	2012-07-10 0(	834571.1875	1151788	4697.064941	520	I	445	470	1
4477-1-10038	2012-08-10 0(	834613.3125	1151737	4703.553223	520	R	466	492	1
4477-1-10039	2012-08-10 0(	834578.125	1151688	4702.236816	520	I	467	489	1
4477-1-10040	2012-07-18 0(	834656.625	1152019	4696.013184	520	I	441	465	1
4477-1-10041	2012-07-09 0(	834701	1151980	4696.084961	520	R	438	465	1
4477-1-10042	2012-07-10 0(	834661.375	1151940	4704.701172	520	I	450	475	1
4477-1-10043	2012-07-18 0(	834707.625	1151901	4700.977051	520	R	449	482	1
4477-1-10044	2012-07-09 0(	834666.125	1151856	4705.358887	520	I	457	490	1
4477-1-10045	2012-07-09 0(	834704.8125	1151811	4709.347168	520	R	457	490	1
4477-1-10046	2012-07-09 0(	834657.375	1151777	4706.132813	520	I	463	497	1
4477-1-10047	2012-07-17 0(	834692.3125	1151738	4708.542969	540	R	472	499	1
4477-1-10048	2012-07-16 0(	834646.375	1151705	4706.37793	520	I	472	499	1
4477-1-10050	2012-07-09 0(	834645.5	1151583	4702.496094	520	I	467	497	1
4477-1-10052	2012-07-09 0(	834698.875	1151569	4692.391113	520	I	455	485	1
4477-1-10054	2012-07-10 0(	834714.125	1151480	4686.98584	520	I	449	477	1
4477-1-10055	2012-07-11 0(	834660.6875	1151452	4688.776855	520	I	452	477	1
4477-1-10056	2012-07-11 0(	834745.3125	1151429	4676.145996	500	I	444	459	1
4477-1-10057	2012-07-10 0(	834690.375	1151401	4682.102051	520	R	444	466	1
4477-1-10058A	2012-07-16 0(	834640.875	1151376	4688.902832	520	I	450	472	1
4477-1-10059A	2012-07-16 0(	834738.3125	1151354	4676.768066	500	I	436	461	1
4477-1-10060	2012-07-10 0(	834684.8125	1151340	4686.061035	520	R	452	477	1
4477-1-10061	2012-07-11 0(	834694.3125	1151281	4685.266113	520	I	450	475	1
4477-1-10062	2012-07-19 0(	834761.875	1152028	4679.11377	520	I	415	439	1
4477-1-10064	2012-08-28 0(	834754.625	1151946	4692.61084	520	I	438	460	1
4477-1-10065	2012-07-17 0(	834790.375	1151894	4702.749023	520	I	420	442	1
4477-1-10066	2012-08-09 0(	834751.875	1151860	4706.117188	520	I	450	471	1
4477-1-10068	2012-07-13 0(	834745.3125	1151768	4712.87793	540	I	476	500	1
4477-1-10070	2012-07-16 0(	834715.8125	1151675	4703.899902	540	I	465	490	1
4477-1-10072	2012-07-19 0(	834913.875	1152016	4691.018066	520	I	430	449	1
4477-1-10073	2012-07-09 0(	834899.5	1151941	4702.946777	520	I	445	462	1
4477-1-10075	2012-08-07 0(	834884.625	1151874	4711.22998	540	I	430	450	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4477-1-10076	2012-08-10 0(	834831.8125	1151837	4711.335938	540	R	428	450	1
4477-1-10078	2012-07-16 0(	834830.125	1151750	4714.174805	540	I	433	451	1
4477-1-10081	2012-07-10 0(	834960.375	1152051	4689.541016	520	R	417	443	1
4477-1-10082	2012-07-10 0(	835002.5	1152009	4698.637207	520	R	426	452	1
4477-1-10083	2012-07-19 0(	834958.3125	1151971	4697.86084	520	R	435	452	1
4477-1-10084	2012-07-11 0(	834992	1151925	4704.262207	520	I	444	457	1
4477-1-10092	2012-07-20 0(	835036.8125	1152043	4703.785156	540	I	425	451	1
4477-1-10093	2012-07-12 0(	835079.1875	1152008	4706.526855	540	R	426	451	1
4477-1-10094	2012-07-10 0(	835040.125	1151963	4709.920898	540	I	435	457	1
4477-1-10095	2012-07-10 0(	835086.6875	1151924	4712.558105	540	R	436	459	1
4477-1-10096	2012-07-11 0(	835037.625	1151887	4711.929199	540	I	450	466	1
4477-1-10097	2012-07-13 0(	835087.375	1151859	4713.149902	540	R	451	468	1
4477-1-10098	2012-07-27 0(	835036.125	1151796	4707.144043	540	I	445	461	1
4477-1-10103	2012-07-18 0(	835105.375	1152057	4695.007813	540	R	412	438	1
4477-1-10104	2012-07-18 0(	835119.125	1151969	4700.566895	540	I	425	447	1
4477-1-10105	2012-07-13 0(	835191.375	1151996	4681.71582	520	I	414	428	1
4477-1-10106	2012-08-09 0(	835177.8125	1151934	4688.836914	540	R	420	435	1
4477-1-10107	2012-07-18 0(	835136	1151884	4706.306152	540	I	426	454	1
4477-1-10108	2012-07-17 0(	835171.375	1151847	4706.086914	540	R	432	458	1
4477-1-10109	2012-07-17 0(	835143.8125	1151829	4710.816895	540	I	440	463	1
4477-1-10113	2012-07-12 0(	835108	1151660	4691.665039	520	I	485	507	1
4477-1-10114	2012-07-17 0(	835137.875	1151608	4688.477051	520	R	476	502	1
4477-1-10115	2012-07-10 0(	835130.5	1151547	4679.456055	520	I	472	494	1
4477-1-10122	2012-08-21 0(	835081.875	1151383	4688.207031	520	I	495	505	1
4477-1-10123	2012-07-13 0(	834940.625	1151365	4697.595215	540	I	509	521	1
4477-1-10124	2012-07-12 0(	835025.625	1151368	4697.09082	540	I	507	525	1
4477-1-10125	2012-07-16 0(	834984.3125	1151324	4690.086914	540	R	500	520	1
4477-1-10126	2012-07-12 0(	835058.875	1151317	4696.653809	540	R	503	515	1
4477-1-10129	2012-07-13 0(	835021.1875	1151274	4686.09082	540	I	500	519	1
4477-1-10131	2012-07-17 0(	835216.625	1151896	4686.245117	520	I	412	435	1
4477-1-10132	2012-08-30 0(	835275.625	1151835	4684.341797	520	R	410	430	1
4477-1-10133	2012-08-27 0(	835250.3125	1151783	4688.109863	520	I	415	440	1
4477-1-10137	2012-08-09 0(	835186.5	1151640	4692.183105	520	I	480	498	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4477-1-10141	2012-07-13 0(	835334.3125	1151988	4664.043945	540	I	390	405	1
4477-1-10142	2012-07-11 0(	835351.3125	1151933	4665.378906	460	R	393	412	1
4477-1-10143	2012-07-12 0(	835305.6875	1151892	4673.925781	480	I	400	418	1
4477-1-10144	2012-07-12 0(	835346.625	1151847	4672.10498	480	R	398	417	1
4477-1-10145	2012-07-19 0(	835299.5	1151804	4681.541992	500	I	405	425	1
4477-1-10146	2012-07-13 0(	835326.3125	1151751	4680.704102	500	R	399	429	1
4477-1-10147	2012-07-13 0(	835283.6875	1151703	4697.751953	520	I	416	440	1
4477-1-10148	2012-07-13 0(	835322.5	1151657	4690.798828	500	I	410	432	1
4477-1-10149	2012-07-17 0(	835279.125	1151624	4692.481934	520	I	413	440	1
4477-1-10150	2012-07-16 0(	835319.125	1151568	4687.205078	500	R	435	460	1
4477-1-10151	2012-07-16 0(	835264.1875	1151520	4684.283203	480	I	432	454	1
4477-1-10152	2012-07-12 0(	835396.3125	1151975	4658.349121	460	I	384	403	1
4477-1-10153A	2012-08-24 0(	835436.125	1151917	4659.028809	420	R	384	405	1
4477-1-10154	2012-07-11 0(	835388.375	1151887	4664.605957	460	I	385	409	1
4477-1-10155	2012-07-12 0(	835416.125	1151833	4662.963867	460	R	383	412	1
4477-1-10156	2012-07-13 0(	835373.625	1151792	4670.075195	460	I	393	420	1
4477-1-10157	2012-07-16 0(	835402.8125	1151742	4668.51709	460	R	387	415	1
4477-1-10158	2012-07-13 0(	835361.375	1151702	4679.966797	480	I	397	423	1
4477-1-10160	2012-07-10 0(	835362.375	1151615	4686.569824	480	I	410	440	1
4477-1-10162	2012-07-12 0(	835354.5	1151519	4684.432129	480	I	432	451	1
4477-1-10163	2012-07-13 0(	835474.8125	1151965	4655.699219	460	I	374	399	1
4477-1-10164	2012-08-22 0(	835504.8125	1151914	4652.14209	460	R	369	393	1
4477-1-10165	2012-07-13 0(	835459.875	1151873	4657.996094	460	I	377	402	1
4477-1-10166	2012-07-17 0(	835493.3125	1151822	4653.23584	460	R	370	398	1
4477-1-10167	2012-07-12 0(	835450.8125	1151782	4660.375	460	I	376	408	1
4477-1-10168	2012-07-12 0(	835444.625	1151699	4660.654785	460	I	378	408	1
4477-1-10169	2012-07-17 0(	835488.1875	1151653	4658.546875	460	R	395	420	1
4477-1-10170	2012-07-12 0(	835439.5	1151612	4667.815918	480	I	410	432	1
4477-1-10171	2012-07-18 0(	835473.8125	1151565	4665.314941	460	R	406	428	1
4477-1-10172A	2012-07-16 0(	835438.375	1151516	4674.291992	480	I	418	438	1
4477-1-10174	2012-07-19 0(	835537.125	1151961	4649.755859	460	I	367	385	1
4477-1-10175	2012-07-18 0(	835572.125	1151911	4643.275879	460	R	360	383	1
4477-1-10176	2012-07-19 0(	835537	1151864	4647.618164	460	I	362	386	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4477-1-10177	2012-07-18 0(	835577	1151819	4642.665039	460	R	359	384	1
4477-1-10178	2012-07-17 0(	835532.125	1151778	4650.103027	460	I	372	397	1
4477-1-10179	2012-08-03 0(	835574.625	1151733	4645.672852	460	R	386	411	1
4477-1-10180	2012-07-18 0(	835528.125	1151691	4652.390137	460	I	400	413	1
4477-1-10182	2012-07-18 0(	835523.1875	1151604	4657.823242	460	I	402	419	1
4477-1-10183	2012-08-24 0(	835531.375	1151569	4658.150879	460	I	405	421	1
4477-1-10184	2012-07-20 0(	835518.875	1151517	4662.98877	520	I	410	427	1
4477-1-10185	2012-08-07 0(	835607.125	1151956	4639.231934	440	I	363	382	1
4477-1-10186	2012-08-29 0(	835665.875	1151920	4629.916016	440	I	362	387	1
4477-1-10187	2012-08-06 0(	835599.625	1151867	4639.201172	460	I	353	378	1
4477-1-10188	2012-07-18 0(	835651.875	1151821	4633.500977	440	R	353	378	1
4477-1-10189	2012-08-22 0(	835637.8125	1151770	4637.609863	440	I	358	382	1
4477-1-10190	2012-07-18 0(	835652.3125	1151726	4637.273926	440	R	355	380	1
4477-1-10191	2012-08-03 0(	835615	1151683	4644.400879	460	I	393	409	1
4477-1-10196	2012-08-23 0(	835699.375	1152062	4627.63623	440	I	358	375	1
4477-1-10197	2012-07-19 0(	835717	1152009	4626.393066	440	R	356	375	1
4477-1-10198	2012-08-06 0(	835687.375	1151968	4628.867188	440	I	355	377	1
4477-1-10199	2012-07-19 0(	835712	1151922	4625.148926	440	R	355	384	1
4477-1-10200	2012-07-19 0(	835682.125	1151862	4627.306152	440	I	352	372	1
4477-1-10201	2012-07-19 0(	835718.3125	1151826	4627.030762	420	R	348	372	1
4477-1-10202	2012-07-18 0(	835690	1151775	4632.381836	440	I	353	375	1
4477-1-10203	2012-07-18 0(	835729.375	1151724	4627.51123	440	R	359	389	1
4477-1-10204	2012-07-19 0(	835685.625	1151683	4635.75	440	I	375	402	1
4477-1-10205	2012-07-18 0(	835727.3125	1151631	4640.461914	440	R	380	403	1
4477-1-10206	2012-07-18 0(	835682.6875	1151590	4645.271973	440	I	385	409	1
4477-1-10209	2012-08-09 0(	835759.3125	1152049	4621.600098	420	I	349	369	1
4477-1-10210	2012-07-19 0(	835806.625	1152001	4612.068848	420	R	340	370	1
4477-1-10211	2012-07-19 0(	835760.375	1151963	4618.777832	420	I	355	388	1
4477-1-10212	2012-07-20 0(	835798.875	1151921	4612.692871	420	R	350	379	1
4477-1-10213	2012-07-18 0(	835755.3125	1151876	4618.554199	420	I	345	377	1
4477-1-10215	2012-07-17 0(	835757.1875	1151779	4623.006836	420	I	345	370	1
4477-1-10217	2012-07-18 0(	835765.125	1151681	4635.88916	440	I	372	397	1
4477-1-10218	2012-07-18 0(	835771.125	1151590	4648.055176	440	I	390	412	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4477-1-10220	2012-08-09 0(	835852.125	1152045	4610.196777	400	I	340	362	1
4477-1-10222	2012-08-06 0(	835842.6875	1151958	4611.327148	420	I	335	365	1
4477-1-10223	2012-07-18 0(	835880.875	1151909	4617.85791	420	R	362	380	1
4477-1-10224	2012-07-18 0(	835841.3125	1151863	4619.263184	420	I	361	388	1
4477-1-10225	2012-07-18 0(	835869.1875	1151827	4626.848145	420	I	345	360	1
4477-1-10227A	2012-09-25 0(	835877.1875	1151751	4634.783203	380	I	350	367	1
4477-1-10229	2012-07-18 0(	835884.375	1151667	4645.054199	440	I	350	370	1
4477-1-10234	2012-07-19 0(	835946.875	1151825	4628.388184	420	I	347	360	1
4477-1-10235	2012-07-19 0(	835911.375	1151777	4632.961914	420	R	347	365	1
4477-1-10236	2012-07-18 0(	835959.1875	1151745	4637.754883	440	I	352	365	1
4477-1-10237	2012-07-18 0(	835914.5	1151693	4642.891113	440	I	351	372	1
4477-1-10238	2012-07-19 0(	835934.125	1151632	4650.012207	440	R	355	376	1
4477-1-10239	2012-07-18 0(	835940.8125	1151581	4659.621094	440	I	362	380	1
4477-1-10244	2012-07-18 0(	835973.6875	1151667	4647.196777	440	I	350	366	1
4477-1-10247	2012-09-20 0(	834626.1875	1151479	4695.547852	520	I	455	473	1
4477-1-10DM1	2012-06-06 0(	835971.142	1151805.3	4631.572	520	DM	0	0	
4477-1-10DM2	2012-06-07 0(	835479.125	1151717	4658.578125	580	DM	0	0	
4477-1-10DM3	2012-06-06 0(	834666	1151489	4500	620	DM	0	0	
4477-1-10DM4	2012-06-06 0(	834603.6875	1151908	4701.952148	680	DM	0	0	
4477-1-10MP1	2012-06-07 0(	835972.8125	1151817	4633.555176	420	R	380	400	1
4477-1-10MP2	2012-06-08 0(	835479.625	1151727	4660.665039	460	R	377	408	1
4477-1-10MP3	2012-06-07 0(	834665.3125	1151520	4696.091797	510	R	455	490	1
4477-1-10MP4	2012-06-07 0(	834601.875	1151919	4703.11084	520	R	458	485	1
4477-1-10MW10	2012-06-13 0(	836513.97	1151419.4	4605.025	440	PM	300	375	1
4477-1-10MW11	2012-06-12 0(	836092.625	1151168	4674.339844	440	PM	373	441	1
4477-1-10MW12	2012-06-13 0(	835639.125	1150957	4650.186035	440	PM	350	419	1
4477-1-10Mw13	2012-06-14 0(	835184.1875	1150807	4646.729004	460	PM	344	425	1
4477-1-10MW14	2012-06-13 0(	834745.875	1150834	4689.568848	480	PM	390	478	1
4477-1-10MW15	2012-06-13 0(	834530.8125	1151012	4702.155762	500	PM	400	496	1
4477-1-10MW9	2012-06-12 0(	836659.3125	1151902	4586.38916	460	PM	270	356	1
4477-1-10SM1	2012-06-07 0(	835974.3125	1151829	4632.662109	280	SM	224	266	1
4477-1-10SM2	2012-06-08 0(	835479.125	1151737	4660.276855	320	SM	254	288	1
4477-1-10SM3	2012-06-07 0(	834666.8125	1151529	4696.039063	350	SM	306	336	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4477-1-10SM4	2012-06-07 0(	834599.3125	1151929	4703.626953	360	SM	307	341	1
4477-2-10001	2012-07-11 0(	834280.375	1152054	4662.169922	520	I	422	444	1
4477-2-10002	2012-07-11 0(	834310.8125	1152027	4669.35791	480	I	427	452	1
4477-2-10003	2012-07-25 0(	834263.1875	1152010	4643.563965	480	R	403	425	1
4477-2-10004	2012-07-10 0(	834346.875	1151981	4671.973145	500	R	430	458	1
4477-2-10005	2012-07-12 0(	834221.875	1151942	4639.020996	480	I	402	423	1
4477-2-10006	2012-07-11 0(	834307.625	1151938	4668.246094	480	I	426	445	1
4477-2-10007	2012-07-11 0(	834265.125	1151900	4645.305176	480	R	410	433	1
4477-2-10009	2012-07-12 0(	834211.3125	1151830	4647.50293	480	I	413	432	1
4477-2-10010	2012-07-16 0(	834304.5	1151852	4671.966797	480	I	445	464	1
4477-2-10011	2012-07-10 0(	834344.625	1151811	4679.301758	500	R	450	472	1
4477-2-10246	2012-09-19 0(	834204.625	1151899	4641.525879	460	I	405	420	1
4477-2-10994	2013-02-25 0(	831809.973	1152026.9	4644.563	480	I			
4477-2-10995	2013-02-20 0(	831871.889	1152016.9	4653.479	480	R			
4477-2-10996	2013-02-15 0(	831926.044	1152019.2	4657.709	480	I			
4477-2-10998	2013-02-28 0(	832042.4	1152018	4657.086	480	I			
4477-2-10999	2013-03-01 0(	832107.4	1152026	4650.557	480	R			
4477-2-10DM5	2012-06-06 0(	832006.875	1151696	4672.321777	620	DM	0	0	
4477-2-10MP5	2012-06-06 0(	832005.6875	1151706	4672.616211	500	BL	453	470	1
4477-2-10MW1	2012-06-13 0(	833827.8125	1152043	4676.39209	500	PM	395	466	1
4477-2-10MW16	2012-06-19 0(	834335.1875	1151249	4715.76416	540	PM	418	507	1
4477-2-10MW17	2012-06-13 0(	834201.8125	1151523	4690.23877	500	PM	392	482	1
4477-2-10MW18	2012-06-13 0(	833957.125	1151759	4688.676758	500	PM	400	479	1
4477-2-10MW19	2012-06-14 0(	833394.875	1151814	4727.375	540	PM	444	520	1
4477-2-10MW20	2012-06-15 0(	832881.6875	1151901	4708.23291	540	PM	427	510	1
4477-2-10MW21	2012-06-19 0(	832535.3125	1151548	4713.01123	530	PM	437	510	1
4477-2-10MW22	2012-06-14 0(	832181.375	1151162	4677.358887	520	PM	403	497	1
4477-2-10MW23	2012-06-14 0(	831686.8125	1151179	4655.87207	500	PM	414	470	1
4477-2-10MW24	2012-06-13 0(	831338.8125	1151557	4666.530762	500	PM	410	489	1
4477-2-10SM5	2012-06-07 0(	832004.625	1151716	4673.84082	360	SM	311	343	1
4477-2-11000	2013-02-26 0(	832167.778	1152034.7	4662.959	490	I			
4477-2-11001	2013-02-22 0(	832227.022	1152018.8	4671.409	500	R			
4477-2-11003	2013-02-11 0(	832217.607	1151959.9	4671.492	500	I			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4477-2-11004	2013-03-01 0(	832157.661	1151969.2	4658.213	500	R			
4477-2-11005	2013-02-14 0(	832168.639	1151910.8	4671.787	500	I			
4477-2-11006	2013-02-20 0(	832097.697	1151968	4666.47	500	I			
4477-2-11007	2013-02-20 0(	831978.65	1151957.9	4667.449	490	I			
4477-2-11008	2013-02-12 0(	831917.922	1151959.1	4662.144	480	R			
4477-2-11009	2013-02-20 0(	831859.398	1151957.6	4655.27	480	I			
4477-2-11010	2013-02-14 0(	831910.911	1151900.5	4662.889	480	I			
4477-2-11015	2013-02-20 0(	831984.221	1151794.7	4668.469	490	I			
4477-2-11016	2013-02-21 0(	832050.242	1151796.4	4676.258	500	I			
4477-2-11017	2013-02-14 0(	832016.529	1151746.7	4672.596	490	R			
4477-2-11018	2013-02-20 0(	831966.458	1151710.4	4668.031	490	I			
4477-2-11019	2013-02-14 0(	832059.418	1151706.1	4677.094	490	I			
4477-2-11020	2013-02-13 0(	832012.627	1151674.9	4673.324	490	R			
4477-2-11021	2013-02-19 0(	831984.185	1151620.3	4672.215	490	I			
4477-2-11022	2013-02-22 0(	832059.551	1151641.6	4677.376	490	I			
4477-2-11024	2013-02-28 0(	832025.005	1151530.4	4660.962	500	I			
4477-2-11025	2013-02-28 0(	832080.435	1151548.4	4661.144	500	I			
4477-2-11026	2013-02-26 0(	832073.213	1151492.9	4670.084	500	R			
4477-2-11027	2013-02-28 0(	832071.039	1151432.4	4675.869	500	I			
4477-2-11028	2013-02-25 0(	832124.329	1151463.4	4675.373	500	I			
4477-2-TMWW-1	2012-04-26 0(	832492.328	1149473.5	4752	800	HW			
4576-26-JCWW	2012-06-01 0(	860584.3125	1158398	5029.609863	800	HW	0	0	
4576-30-8AN192-1	2012-01-10 0(	838988.125	1161443	4515.085938	330	I	275	290	1
4576-30-8AN194-1	2011-08-10 0(	838991.8125	1161600	4559.956055	380	R	332	359	1
4576-30-8AN196-2	2011-11-10 0(	838989.125	1161647	4548.486816	380	I	322	349	1
4576-30-8AN197-1	2011-11-01 0(	838971.875	1161726	4523.695801	360	I	300	325	1
4576-30-8AO192-2	2011-11-09 0(	839065.375	1161480	4545.626953	360	I	309	334	1
4576-30-8AO193-1	2011-09-12 0(	839012.5	1161518	4551.942871	380	R	313	345	1
4576-30-8AO193-2	2011-09-13 0(	839083.625	1161524	4551.24707	380	I	312	342	1
4576-30-8AO194-1	2011-08-11 0(	839043.125	1161564	4563.01123	380	I	330	355	1
4576-30-8AO194-2	2011-08-10 0(	839097	1161596	4561.399902	380	I	325	355	1
4576-30-8AO195-1	2011-08-30 0(	839046.625	1161631	4555.5	340	R	323	353	1
4576-30-8AO196-1	2011-11-07 0(	839013	1161700	4525.666016	360	R	298	326	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4576-30-8AO196-2	2011-11-11 0(	839091.875	1161679	4539.790039	360	I	307	335	1
4576-30-8AO197-1	2011-09-07 0(	839050.375	1161724	4526.726074	383	I	300	325	1
4576-30-8AO198-1	2011-11-10 0(	839003.625	1161768	4547.831055	360	R	325	355	1
4576-30-8AP193-1	2012-01-06 0(	839128.6875	1161514	4550.685059	380	I	307	320	1
4576-30-8AP194-1	2011-08-11 0(	839178	1161552	4560.163086	380	I	320	340	1
4576-30-8AP194-2	2011-11-01 0(	839155.875	1161588	4561.158203	380	R	322	350	1
4576-30-8AP195-1	2011-08-29 0(	839190.8125	1161644	4563.244141	400	I	330	350	1
4576-30-8AP195-2	2011-11-09 0(	839133.125	1161635	4559.240234	380	R	321	351	1
4576-30-8AP196-1	2011-11-10 0(	839151.625	1161695	4555.691895	390	I	325	343	1
4576-30-8AQ191-1	2011-11-10 0(	839275.375	1161419	4535.126953	380	I	277	307	1
4576-30-8AQ192-2	2011-11-11 0(	839263.6875	1161479	4536.847168	380	R	284	317	1
4576-30-8AQ192-3	2011-11-01 0(	839209.625	1161451	4523.720215	380	I	280	308	1
4576-30-8AQ193-1	2011-09-13 0(	839239.125	1161536	4547.509766	380	I	295	325	1
4576-30-8AQ194-1	2011-08-30 0(	839287.625	1161570	4550.444824	400	R	293	327	1
4576-30-8AQ195-1	2011-06-24 0(	839209.8125	1161604	4562.620117	390	R	330	347	1
4576-30-8AQ195-2	2011-11-08 0(	839263.125	1161637	4565.467773	399	I	312	342	1
4576-30-8AR162-1	2012-03-26 0(	839393.875	1159966	4584.462891	340	I	314	329	1
4576-30-8AR193-1	2011-08-11 0(	839307	1161524	4549.762207	400	I	295	325	1
4576-30-8AR195-1	2011-08-30 0(	839336.125	1161604	4559.633789	400	I	300	330	1
4576-30-8AS156-1	2012-04-17 0(	839469.125	1159667	4603.407227	360	I	304	327	1
4576-30-8AS158-1	2012-03-21 0(	839488.375	1159796	4584.78418	340	I	288	311	1
4576-30-8AS159-2	2012-04-20 0(	839420.125	1159860	4587.434082	340	I	313	329	1
4576-30-8AS160-1	2012-03-20 0(	839492.5	1159871	4577.176758	340	I	279	304	1
4576-30-8AS161-1	2012-04-12 0(	839437.125	1159906	4582.943848	340	R	302	325	1
4576-30-8AS162-1	2012-03-21 0(	839476.1875	1159961	4575.173828	330	I	294	317	1
4576-30-8AS164-1	2012-03-20 0(	839439.6875	1160074	4572.754883	330	I	281	296	1
4576-30-8AS164-2	2012-03-20 0(	839482.3125	1160055	4574.328125	330	R	280	302	1
4576-30-8AS165-1	2012-03-21 0(	839492.3125	1160115	4573.12207	330	I	277	299	1
4576-30-8AS166-1	2012-03-22 0(	839470.375	1160166	4570.681152	330	I	275	298	1
4576-30-8AS167-1	2012-03-22 0(	839482.1875	1160226	4570.758789	330	R	286	309	1
4576-30-8AS169-3	2012-03-19 0(	839472.625	1160325	4568.813965	330	I	292	308	1
4576-30-8AT153-1	2012-03-22 0(	839512.8125	1159508	4600.768066	350	I	311	331	1
4576-30-8AT153-2	2012-03-21 0(	839582.5	1159520	4590.373047	340	I	292	311	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4576-30-8AT154-1	2012-03-21 0(	839536	1159564	4596.60791	350	R	306	327	1
4576-30-8AT155-1	2012-03-21 0(	839504.375	1159610	4600.520996	350	I	304	328	1
4576-30-8AT155-2	2012-03-23 0(	839569.125	1159618	4591.616211	350	I	291	315	1
4576-30-8AT156-1	2012-03-23 0(	839532.125	1159665	4594.571777	350	R	294	317	1
4576-30-8AT157-1	2012-03-22 0(	839506.625	1159723	4592.26416	350	I	292	316	1
4576-30-8AT157-2	2012-03-23 0(	839566.375	1159715	4585.533203	350	I	284	307	1
4576-30-8AT158-1	2012-03-26 0(	839544.375	1159772	4581.270996	340	R	282	306	1
4576-30-8AT159-1	2012-03-21 0(	839538.625	1159834	4577.943848	340	R	279	303	1
4576-30-8AT159-2	2012-03-21 0(	839594	1159809	4580.713867	340	I	280	304	1
4576-30-8AT160-1	2012-03-22 0(	839567.875	1159886	4582.837891	340	I	286	305	1
4576-30-8AT161-1	2012-03-27 0(	839524.8125	1159922	4578.119141	340	R	281	303	1
4576-30-8AT162-1	2012-03-21 0(	839562.8125	1159966	4582.921875	340	I	283	306	1
4576-30-8AT165-1	2012-03-26 0(	839551.6875	1160134	4579.703125	340	R	281	304	1
4576-30-8AT166-1	2012-03-20 0(	839526.3125	1160187	4574.038086	340	I	278	303	1
4576-30-8AT167-1	2011-06-24 0(	839579.8125	1160249	4583.529785	320	BL	290	315	1
4576-30-8AT167-2	2012-04-03 0(	839557	1160240	4577.98584	340	R	284	308	1
4576-30-8AT168-1	2012-03-22 0(	839513.8125	1160280	4573.919922	340	I	292	313	1
4576-30-8AT169-1	2012-03-20 0(	839568	1160308	4579.457031	340	I	300	319	1
4576-30-8AT170-1	2012-03-19 0(	839529.6875	1160353	4577.043945	340	I	299	318	1
4576-30-8AT171-2	2012-03-20 0(	839557.875	1160404	4582.913086	350	R	305	324	1
4576-30-8AU150-1	2012-04-10 0(	839641	1159394	4500	340	R	292	307	1
4576-30-8AU151-1	2012-03-19 0(	839636.125	1159433	4588.354004	340	I	294	316	1
4576-30-8AU152-1	2012-03-19 0(	839638.3125	1159493	4586.328125	340	R	292	314	1
4576-30-8AU152-2	2012-03-26 0(	839695.375	1159452	4590.654785	340	R	284	309	1
4576-30-8AU153-1	2012-03-26 0(	839696.125	1159512	4590.274902	340	I	289	309	1
4576-30-8AU153-2	2012-03-20 0(	839664.8125	1159547	4585.165039	340	I	282	301	1
4576-30-8AU154-1	2012-03-20 0(	839613.6875	1159573	4585.493164	340	R	280	304	1
4576-30-8AU155-1	2012-03-26 0(	839642.125	1159624	4583.331055	350	I	279	303	1
4576-30-8AU156-1	2012-03-26 0(	839604.3125	1159670	4582.308105	350	R	278	304	1
4576-30-8AU157-1	2012-03-21 0(	839645.125	1159716	4582.466797	350	I	279	303	1
4576-30-8AU158-1	2012-04-10 0(	839617.1875	1159759	4580.895996	350	I	281	305	1
4576-30-8AV147-1	2012-03-27 0(	839781.6875	1159245	4611.35498	350	R	299	321	1
4576-30-8AV148-1	2012-03-27 0(	839731.8125	1159275	4603.032227	340	I	294	314	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4576-30-8AV149-2	2012-03-27 0(	839768.875	1159322	4605.37793	340	R	295	322	1
4576-30-8AV150-1	2012-03-26 0(	839725.125	1159362	4597.473145	340	I	292	316	1
4576-30-8AV150-2	2012-03-26 0(	839709.375	1159394	4592.598145	340	I	287	311	1
4576-30-8AV151-1	2012-03-27 0(	839768.625	1159404	4601.506836	350	R	295	319	1
4576-30-8AV152-1	2012-04-04 0(	839763.6875	1159443	4600.408203	340	I	292	312	1
4576-30-8AW138-	2012-03-29 0(	839897.875	1158791	4634.003906	370	I	321	340	1
4576-30-8AW140-	2012-03-28 0(	839865.625	1158859	4628.569824	370	I	332	344	1
4576-30-8AW141-	2012-03-29 0(	839854.5	1158935	4623.123047	360	R	330	341	1
4576-30-8AW142-	2012-03-28 0(	839885.125	1158992	4625.594238	360	I	310	338	1
4576-30-8AW143-	2012-03-28 0(	839829.5	1159016	4619.172852	360	I	306	335	1
4576-30-8AW144-	2012-03-28 0(	839863	1159065	4621.574219	360	I	305	332	1
4576-30-8AW145-	2012-03-27 0(	839830	1159115	4617.231934	360	R	300	322	1
4576-30-8AW145-	2012-03-28 0(	839897.625	1159117	4627.422852	360	I	307	328	1
4576-30-8AW146-	2012-03-27 0(	839862.875	1159166	4624.123047	360	R	304	326	1
4576-30-8AW147-	2012-04-20 0(	839832.8125	1159216	4620.071777	350	I	303	323	1
4576-30-8AW148-	2011-06-23 0(	839894.875	1159279	4620.276855	330	BL	315	333	1
4576-30-8AW148-	2012-03-27 0(	839820	1159289	4614.151855	350	I	304	325	1
4576-30-8AW148-	2012-03-27 0(	839881.625	1159251	4621.745117	360	R	311	330	1
4576-30-8AW150-	2012-05-22 0(	839814.3125	1159365	4607.041016	340	I	299	322	1
4576-30-8AX137-1	2012-03-29 0(	839944.8125	1158704	4635.925781	370	I	324	344	1
4576-30-8AX138-1	2012-03-29 0(	839954.3125	1158766	4638.866211	370	R	326	346	1
4576-30-8AX139-2	2012-03-28 0(	839979.3125	1158821	4641.883789	340	I	329	344	1
4576-30-8AX140-1	2012-03-28 0(	839961.8125	1158895	4638.50293	370	I	331	344	1
4576-30-8AX141-1	2012-03-29 0(	839902.6875	1158908	4630.374023	370	R	324	345	1
4576-30-8AX142-1	2012-03-29 0(	839934.8125	1158959	4632.731934	370	I	319	344	1
4576-30-8AX143-1	2012-03-28 0(	839917.5	1159043	4629.22998	360	I	312	341	1
4576-30-8AX143-2	2012-03-27 0(	839967.3125	1159009	4635.029785	370	R	317	340	1
4576-30-8AX144-1	2012-03-27 0(	839952.625	1159088	4634.274902	360	R	313	335	1
4576-30-8AX145-1	2012-03-27 0(	839967.3125	1159147	4632.193848	360	I	312	331	1
4576-30-8AX146-1	2012-04-10 0(	839930	1159168	4500	360	I	310	332	1
4576-30-8AX147-1	2012-03-27 0(	839902.625	1159211	4625.740234	360	I	308	327	1
4576-30-8AX148-1	2012-03-28 0(	839928.125	1159284	4619.36377	360	I	306	320	1
4576-30-8AY135-1	2012-03-29 0(	840000.6875	1158624	4642.11377	380	I	328	349	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4576-30-8AY136-1	2012-03-29 0(	840002.125	1158685	4642.379883	370	R	328	349	1
4576-30-8AY136-2	2012-03-29 0(	840061.875	1158673	4648.448242	380	I	330	344	1
4576-30-8AY137-1	2012-03-28 0(	840011.125	1158747	4643.507813	370	I	330	348	1
4576-30-8AY137-2	2012-03-28 0(	840068.875	1158734	4649.361816	380	R	331	347	1
4576-30-8AY138-1	2012-03-28 0(	840037.625	1158800	4647.895996	380	R	335	350	1
4576-30-8AY138-2	2012-04-30 0(	840090.875	1158791	4654.683105	390	I	337	351	1
4576-30-8AY139-1	2012-03-30 0(	840070.5	1158847	4653.815918	390	I	337	352	1
4576-30-8AY142-1	2012-03-27 0(	840024.125	1158986	4645.800781	380	I	330	347	1
4576-30-8AY144-1	2012-03-27 0(	840002.8125	1159058	4639.362793	370	I	318	337	1
4576-30-8AZ134-1	2012-03-29 0(	840116.625	1158592	4653.433105	390	I	334	349	1
4576-30-8AZ136-1	2012-03-26 0(	840119.125	1158651	4654.794922	390	I	336	352	1
4576-30-8AZ136-2	2012-03-29 0(	840179.375	1158659	4670.390137	400	I	347	364	1
4576-30-8AZ137-1	2012-03-29 0(	840117.5	1158707	4655.608887	390	R	336	350	1
4576-30-8AZ137-2	2012-03-29 0(	840172.125	1158723	4665.394043	400	R	341	359	1
4576-30-8AZ138-1	2012-03-28 0(	840123	1158758	4658.341797	390	I	339	354	1
4576-30-8AZ138-2	2012-03-30 0(	840190.625	1158781	4673.087891	400	I	347	364	1
4576-30-8BA136-1	2012-04-20 0(	840257.3125	1158677	4665.508789	400	I	338	362	1
4576-30-8BA138-1	2012-04-18 0(	840264.375	1158761	4660.709961	400	I	332	356	1
4576-30-8BA139-1	2012-04-25 0(	840287.1875	1158830	4655.441895	390	I	319	349	1
4576-30-8BB136-1	2012-04-17 0(	840362.3125	1158692	4650.204102	390	I	319	339	1
4576-30-8BB137-1	2012-04-12 0(	840302.125	1158715	4656.458984	400	I	322	350	1
4576-30-8BB137-2	2012-04-18 0(	840390.1875	1158754	4633.878906	380	I	297	328	1
4576-30-8BB138-1	2012-04-12 0(	840327.8125	1158769	4651.916016	390	R	316	346	1
4576-30-8BB139-1	2012-04-12 0(	840388.625	1158808	4645.030762	380	I	308	339	1
4576-30-8BB139-2	2012-05-02 0(	840341.875	1158831	4648.85791	380	R	312	344	1
4576-30-8BB140-2	2012-05-02 0(	840323.625	1158887	4649.181152	380	I	314	346	1
4576-30-8BC135-1	2012-05-02 0(	840404.125	1158611	4651.78418	380	I	319	336	1
4576-30-8BC136-1	2012-04-24 0(	840417.125	1158672	4648.750977	370	R	315	338	1
4576-30-8BC137-1	2012-04-24 0(	840438.625	1158726	4641.899902	360	R	312	331	1
4576-30-8MW20	2011-07-05 0(	839065.625	1162323	4568.303223	440	PM	320	390	1
4576-30-8MW21	2011-07-05 0(	839519.625	1162175	4586.393066	440	PM	310	382	1
4576-30-8MW22A	2011-08-22 0(	839827.375	1161784	4571.027832	300	PM	285	350	1
4576-30-8MW23	2011-07-05 0(	839972.625	1161316	4524.788086	360	PM	220	300	1

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4576-30-8MW24	2011-07-05 0(	839905.125	1160829	4589.004883	380	PM	270	355	1
4576-30-8MW25	2011-07-05 0(	840017	1160365	4623.126953	400	PM	295	370	1
4576-30-8MW26B	2011-08-17 0(	840081.375	1159893	4635.323242	400	PM	300	370	1
4576-30-8MW27	2011-07-13 0(	840345.125	1159454	4622.772949	380	PM	270	350	1
4576-30-8MW28	2011-07-14 0(	840554.375	1159015	4610.545898	380	PM	260	325	1
4576-30-8MW29C	2011-08-26 0(	840659.3125	1158511	4628.170898	420	PM	285	365	1
4576-30-8MW30B	2011-08-17 0(	840370.6875	1158149	4677.629883	460	PM	335	410	1
4576-30-8MW31	2011-07-08 0(	839932.125	1158253	4648.712891	440	PM	307	366	1
4576-30-8MW32A	2011-08-16 0(	839755.3125	1158481	4620.268066	420	PM	285	360	1
4576-30-8MW33A	2011-08-10 0(	839633.625	1158755	4605.297852	400	PM	270	340	1
4576-30-8MW34B	2011-08-19 0(	839530	1159009	4608.823242	280	PM	280	355	1
4576-30-8MW35A	2011-08-16 0(	839382.375	1159276	4618.217773	380	PM	300	365	1
4576-30-8MW36A	2011-08-11 0(	839206.375	1159505	4629.704102	320	PM	310	375	1
4576-30-8MW37A	2011-08-16 0(	839166.5	1159802	4615.719238	310	PM	300	370	1
4576-30-8MW38	2011-07-08 0(	839124.1875	1160094	4590.973145	400	PM	285	350	1
4576-30-8SM1	2011-06-30 0(	839237.5	1161610	4560.48877	240	SM	210	225	1
4576-30-8SM12	2011-07-05 0(	839571.3125	1160245	4583.078125	210	SM	180	198	1
4576-30-8SM13	2011-06-30 0(	839888.3125	1159270	4620.746094	230	SM	199	215	1
4577-16-IRPT-16D		821312.243	1169305.4	4515.208	560	DM	462	505	1
4577-16-IRPT-16S	2013-03-11 0(	821311.241	1169282.7	4513.511	280	SM	247	271	1
4577-1-IRPT-10S	2013-03-08 0(	817799.378	1179189.8	4322.371	130	SM	74	126	1
4577-24-8MW13	2011-07-07 0(	836332.625	1162857	4610.799805	480	PM	370	430	1
4577-24-8MW14	2011-07-07 0(	836576.1875	1163020	4642.609863	480	PM	395	455	1
4577-24-8MW15	2011-06-30 0(	836905.625	1163287	4662.383789	500	PM	405	475	1
4577-24-8MW16	2011-06-29 0(	837359.375	1163113	4638.945801	480	PM	395	455	1
4577-24-8MW17	2011-06-30 0(	837803.125	1162894	4599.815918	440	PM	345	420	1
4577-25-8AA183-1	2011-11-21 0(	837609.125	1161035	4558.941895	370	R	331	355	1
4577-25-8AA183-2	2011-11-21 0(	837666.875	1161035	4560.102051	370	I	340	356	1
4577-25-8AA184-1	2011-11-16 0(	837624.875	1161090	4565.005859	380	I	335	362	1
4577-25-8AA185-1	2011-12-02 0(	837623.375	1161150	4570.579102	380	R	340	368	1
4577-25-8AA185-2	2011-11-17 0(	837683.375	1161149	4571.546875	380	I	337	367	1
4577-25-8AA187-1	2011-08-17 0(	837602.875	1161217	4572.327148	360	BL	350	376	1
4577-25-8AA187-2	2011-11-17 0(	837668.1875	1161208	4576.37207	390	R	352	380	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8AA187-3	2011-12-05 0(	837608.3125	1161208	4572.691895	380	I	340	370	1
4577-25-8AA188-1	2011-12-01 0(	837607.875	1161270	4575.202148	390	R	360	382	1
4577-25-8AA188-2	2011-12-08 0(	837668.625	1161271	4579.076172	390	I	370	387	1
4577-25-8AA189-1	2011-11-22 0(	837645.375	1161325	4579.881836	400	R	367	392	1
4577-25-8AA190-1	2011-11-22 0(	837629.375	1161383	4579.617188	400	I	370	391	1
4577-25-8AA190-2	2011-11-30 0(	837688.8125	1161375	4583.36377	410	R	371	394	1
4577-25-8AA191-1	2011-11-21 0(	837679.3125	1161433	4584.48877	410	I	373	398	1
4577-25-8AA192-2	2012-03-14 0(	837671	1161468	4586.496094	415	R	371	402	1
4577-25-8AA193-2	2011-12-16 0(	837641.3125	1161525	4586.623047	420	I	368	381	1
4577-25-8AA194-1	2011-11-30 0(	837656.3125	1161582	4588.049805	420	I	353	372	1
4577-25-8AA195-1	2011-11-29 0(	837602.625	1161610	4586.681152	410	R	351	373	1
4577-25-8AA195-2	2011-12-13 0(	837654.1875	1161641	4590.687988	420	I	358	378	1
4577-25-8AA198-1	2012-01-18 0(	837668.375	1161776	4595.643066	420	I	353	373	1
4577-25-8AA199-1	2011-11-22 0(	837625.8125	1161819	4599.430176	420	R	360	387	1
4577-25-8AA200-1	2011-11-29 0(	837663.125	1161863	4596.03418	420	I	356	385	1
4577-25-8AA201-1	2011-11-22 0(	837617.6875	1161912	4600.371094	420	R	356	389	1
4577-25-8AA202-2	2011-11-28 0(	837665.375	1161951	4599.097168	430	I	352	378	1
4577-25-8AA203-1	2011-06-24 0(	837692.6875	1162051	4602.155762	430	R	390	406	1
4577-25-8AA203-3	2012-03-06 0(	837630.3125	1161994	4603.321777	400	I	367	394	1
4577-25-8AA204-1	2012-03-06 0(	837640.375	1162089	4607.812988	400	I	370	385	1
4577-25-8AB188-2	2011-11-17 0(	837784.5	1161264	4575.205078	400	I	350	377	1
4577-25-8AB189-1	2011-11-30 0(	837702.375	1161318	4585.022949	400	I	373	393	1
4577-25-8AB189-2	2011-12-02 0(	837763.125	1161320	4581.799805	400	I	358	383	1
4577-25-8AB190-1	2011-11-18 0(	837749	1161373	4585.328125	410	I	375	402	1
4577-25-8AB191-1	2011-11-29 0(	837741.8125	1161431	4585.580078	410	R	370	400	1
4577-25-8AB192-1	2011-11-14 0(	837731.375	1161493	4583.179199	420	I	368	400	1
4577-25-8AB192-2	2012-01-18 0(	837790	1161495	4580.380859	420	R	359	369	1
4577-25-8AB193-1	2011-11-22 0(	837708.3125	1161541	4585.85791	420	I	392	407	1
4577-25-8AB194-1	2011-11-28 0(	837753.625	1161567	4583.736816	410	I	356	372	1
4577-25-8AB195-1	2011-12-06 0(	837711.6875	1161606	4586.939941	410	R	356	375	1
4577-25-8AB195-2	2011-12-08 0(	837768.125	1161625	4584.673828	410	I	359	369	1
4577-25-8AB197-2	2011-12-12 0(	837787.6875	1161735	4586.041016	410	I	366	385	1
4577-25-8AB199-2	2011-12-08 0(	837790.125	1161824	4589.439941	410	I	368	387	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8AB201-2	2011-11-30 0(	837784.8125	1161919	4593.499023	420	I	362	390	1
4577-25-8AB205-1	2011-12-15 0(	837753.125	1162135	4589.562988	420	R	350	368	1
4577-25-8AB206-1	2011-12-14 0(	837736.5	1162192	4596.787109	420	I	359	375	1
4577-25-8AC189-1	2011-11-17 0(	837821.3125	1161322	4576.766113	400	I	360	378	1
4577-25-8AC190-1	2011-12-01 0(	837808.875	1161377	4579.74707	420	R	380	398	1
4577-25-8AC190-2	2011-11-28 0(	837871.3125	1161367	4574.983887	400	I	372	390	1
4577-25-8AC191-1	2011-11-17 0(	837801	1161436	4581.61084	410	I	364	395	1
4577-25-8AC192-2	2012-01-27 0(	837844.5	1161479	4576.811035	410	I	355	373	1
4577-25-8AC193-1	2012-01-24 0(	837809.8125	1161551	4580.410156	420	I	358	374	1
4577-25-8AC197-1	2011-12-09 0(	837862.1875	1161733	4583.664063	410	I	365	385	1
4577-25-8AC198-1	2011-12-13 0(	837824.8125	1161777	4586.203125	410	R	367	386	1
4577-25-8AC198-2	2011-12-12 0(	837898.3125	1161781	4584.242188	410	R	366	382	1
4577-25-8AC199-1	2011-12-12 0(	837860.5	1161828	4587.274902	420	I	366	385	1
4577-25-8AC200-1	2011-12-08 0(	837822.875	1161872	4590.154785	420	R	355	383	1
4577-25-8AC201-1	2011-12-09 0(	837868.875	1161915	4589.90918	420	I	358	385	1
4577-25-8AC204-1	2011-12-27 0(	837880.375	1162070	4579.625	420	I	350	365	1
4577-25-8AC205-1	2012-01-25 0(	837839.375	1162115	4591.788086	420	R	360	376	1
4577-25-8AC206-1	2011-12-13 0(	837808.8125	1162166	4598.47998	420	I	359	376	1
4577-25-8AD186-1	2011-11-22 0(	837963.875	1161170	4542.837891	360	I	325	344	1
4577-25-8AD187-1	2011-12-19 0(	837997.875	1161219	4546.150879	420	R	326	350	1
4577-25-8AD188-1	2011-12-06 0(	837948.3125	1161254	4548.51709	360	I	332	353	1
4577-25-8AD195-1	2011-12-12 0(	837919.8125	1161614	4577.940918	400	I	362	372	1
4577-25-8AD196-1	2011-12-13 0(	837901	1161688	4581.071777	410	R	362	377	1
4577-25-8AD196-2	2011-12-12 0(	837955.3125	1161662	4578.346191	410	I	362	374	1
4577-25-8AD197-1	2011-12-13 0(	837940.3125	1161733	4581.225098	410	I	363	378	1
4577-25-8AD199-1	2011-12-13 0(	837942.3125	1161821	4584.123047	410	I	367	382	1
4577-25-8AD200-1	2011-12-12 0(	837905.3125	1161867	4586.912109	420	R	354	380	1
4577-25-8AE186-1	2011-12-16 0(	838046.3125	1161183	4537.791992	360	I	315	333	1
4577-25-8AE188-1	2011-12-20 0(	838027.625	1161270	4548.758789	360	I	333	352	1
4577-25-8AE192-2	2012-01-24 0(	838046.375	1161476	4563.469238	380	I	339	355	1
4577-25-8AE193-1	2011-12-16 0(	838084.5	1161535	4567	390	R	343	358	1
4577-25-8AE194-1	2011-12-16 0(	838022.375	1161559	4566.288086	390	I	343	359	1
4577-25-8AE195-1	2011-12-14 0(	838060.125	1161610	4573.226074	400	I	352	371	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8AF193-1	2011-12-14 0(	838129.375	1161527	4568.631836	390	I	350	262	1
4577-25-8AF194-1	2012-03-05 0(	838117.625	1161581	4573.083984	380	R	352	370	1
4577-25-8AF194-2	2011-12-15 0(	838171.8125	1161585	4572.541016	400	I	355	366	1
4577-25-8AF195-1	2011-12-14 0(	838126.3125	1161643	4575.457031	400	I	358	370	1
4577-25-8AG182-1	2011-08-22 0(	838280.1875	1160971	4509.099121	340	I	279	295	1
4577-25-8AH180-1	2011-08-11 0(	838344.3125	1160896	4528.146973	340	I	298	314	1
4577-25-8AH180-2	2011-08-11 0(	838376.125	1160859	4525.405762	340	I	288	302	1
4577-25-8AH181-1	2011-08-09 0(	838398.125	1160919	4505.84082	340	R	273	286	1
4577-25-8AH182-1	2011-08-10 0(	838338.625	1160957	4507.798828	340	R	278	297	1
4577-25-8AH182-2	2011-08-18 0(	838394	1160978	4500	320	I	278	295	1
4577-25-8AH183-1	2011-08-18 0(	838334.375	1161019	4508.046875	320	I	278	297	1
4577-25-8AH184-1	2011-08-10 0(	838383	1161056	4508.487	340	I	286	309	1
4577-25-8AH185-1	2011-08-10 0(	838321.125	1161121	4509.265137	340	I	290	308	1
4577-25-8AH185-2	2011-08-10 0(	838380.8125	1161115	4509.375	340	R	289	314	1
4577-25-8AH186-1	2011-08-11 0(	838369.875	1161174	4508.65918	340	I	290	310	1
4577-25-8AH189-1	2011-08-16 0(	838390.3125	1161327	4516.993164	360	I	297	310	1
4577-25-8AH194-1	2011-09-16 0(	838391.625	1161560	4521.155762	350	I	302	317	1
4577-25-8AH200-1	2011-08-24 0(	838382.1875	1161862	4549.508789	400	I	340	355	1
4577-25-8AI177-1	2011-08-10 0(	838483.125	1160712	4503.741211	320	I	258	273	1
4577-25-8AI178-1	2011-08-22 0(	838432.875	1160794	4502.413086	320	I	263	276	1
4577-25-8AI178-2	2011-08-10 0(	838491.1875	1160770	4503.998047	320	R	263	276	1
4577-25-8AI179-1	2011-06-27 0(	838456.6875	1160840	4506.50293	300	BL	270	288	1
4577-25-8AI179-2	2011-08-11 0(	838499	1160831	4504.23584	320	I	267	278	1
4577-25-8AI180-1	2011-08-25 0(	838445.375	1160850	4505.01123	320	R	268	282	1
4577-25-8AI181-1	2011-08-09 0(	838457.6875	1160909	4505.086914	320	I	270	283	1
4577-25-8AI185-1	2011-08-08 0(	838437.875	1161130	4508.730957	340	I	288	312	1
4577-25-8AI185-2	2011-08-08 0(	838498.1875	1161136	4512.124023	350	R	286	302	1
4577-25-8AI186-1	2011-08-10 0(	838429.8125	1161192	4509.328125	340	R	285	311	1
4577-25-8AI186-2	2011-08-16 0(	838487.8125	1161196	4510.166992	360	I	287	305	1
4577-25-8AI187-1	2011-08-10 0(	838427.375	1161250	4508.477051	340	R	289	303	1
4577-25-8AI188-1	2011-08-10 0(	838492.3125	1161258	4510.089844	340	R	289	303	1
4577-25-8AI189-1	2011-08-09 0(	838444.8125	1161305	4510.132813	340	I	291	306	1
4577-25-8AI190-1	2011-08-09 0(	838458.3125	1161369	4513.861816	340	I	295	308	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8AI191-1	2011-09-16 0(	838486.3125	1161409	4514.630859	340	I	292	305	1
4577-25-8AI192-1	2011-09-16 0(	838406.8125	1161484	4518.672852	350	I	299	312	1
4577-25-8AI192-2	2011-09-08 0(	838480.375	1161463	4536.346191	360	R	318	334	1
4577-25-8AI193-1	2011-08-31 0(	838499.375	1161510	4539.220215	360	I	323	345	1
4577-25-8AI193-2	2011-09-09 0(	838440	1161536	4519.153809	380	R	302	323	1
4577-25-8AI194-1	2011-09-09 0(	838483	1161576	4531.092773	380	R	315	337	1
4577-25-8AI196-1A	2011-11-30 0(	838463	1161657	4500	380	I	307	330	1
4577-25-8AI197-1	2011-08-17 0(	838427.8125	1161712	4527.928223	400	I	305	335	1
4577-25-8AI197-2	2011-08-18 0(	838483.375	1161697	4527.928223	400	R	311	335	1
4577-25-8AI198-1	2011-09-06 0(	838462.3125	1161763	4539.903809	400	R	323	353	1
4577-25-8AI198-2	2011-08-17 0(	838396.125	1161776	4527.366211	400	I	321	335	1
4577-25-8AI199-1	2011-09-02 0(	838427.5	1161834	4541.907227	400	R	335	355	1
4577-25-8AI199-2	2011-09-06 0(	838485.3125	1161819	4542.89502	400	I	330	355	1
4577-25-8AI200-1	2011-08-19 0(	838428.625	1161888	4550.76123	400	I	347	361	1
4577-25-8AJ175-1	2011-08-10 0(	838516.375	1160639	4504.079102	340	I	254	266	1
4577-25-8AJ175-2	2011-08-30 0(	838566.375	1160644	4506.098145	340	I	254	266	1
4577-25-8AJ176-1	2011-08-10 0(	838540.125	1160693	4503.01709	320	R	254	272	1
4577-25-8AJ177-1	2011-08-09 0(	838592.125	1160724	4504.366211	320	I	255	270	1
4577-25-8AJ178-1	2011-08-10 0(	838546.6875	1160752	4503.567871	320	I	259	271	1
4577-25-8AJ186-1	2011-08-25 0(	838548.625	1161198	4520.684082	360	R	296	315	1
4577-25-8AJ186-2	2011-08-16 0(	838594.375	1161150	4533.266113	360	I	305	320	1
4577-25-8AJ188-1	2011-08-11 0(	838553.875	1161257	4518.930176	340	I	295	312	1
4577-25-8AJ189-1	2011-08-09 0(	838504.8125	1161316	4511.830078	340	I	292	305	1
4577-25-8AJ189-2	2011-09-09 0(	838555.875	1161311	4511.180176	340	R	288	304	1
4577-25-8AJ190-1	2011-08-11 0(	838562.875	1161359	4512.28418	340	I	290	306	1
4577-25-8AJ190-2	2011-09-09 0(	838510	1161369	4512.071777	340	R	291	307	1
4577-25-8AJ191-1	2011-08-16 0(	838514.3125	1161428	4514.604004	340	I	295	310	1
4577-25-8AJ192-1	2011-08-16 0(	838550.3125	1161476	4516.350098	342	R	296	319	1
4577-25-8AJ193-1	2011-08-29 0(	838591.8125	1161522	4521.995117	360	I	305	325	1
4577-25-8AJ194-1	2011-08-19 0(	838533.5	1161553	4539.921875	380	R	325	337	1
4577-25-8AJ195-1	2011-12-16 0(	838522.3125	1161618	4544.397949	365	I	330	352	0
4577-25-8AJ195-2	2011-08-22 0(	838570.8125	1161606	4538.538086	380	I	325	350	1
4577-25-8AJ196-1	2011-08-18 0(	838543.625	1161680	4543.394043	380	I	328	357	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8AJ197-1	2011-06-27 0(	838586.8125	1161709	4545.944824	370	BL	334	357	1
4577-25-8AJ197-2	2011-08-23 0(	838575.8125	1161735	4546.828125	400	R	332	361	1
4577-25-8AJ198-1	2011-08-18 0(	838525.5	1161760	4547.204102	400	I	337	360	1
4577-25-8AJ199-1	2011-08-19 0(	838548.125	1161805	4550.996094	400	R	341	367	1
4577-25-8AJ200-1	2011-08-19 0(	838576.625	1161866	4561.349121	400	I	352	378	1
4577-25-8AJ202-1	2011-09-16 0(	838559.3125	1161965	4573.458008	400	I	370	378	1
4577-25-8AK175-1	2011-08-25 0(	838630.625	1160608	4537.73877	360	I	290	302	1
4577-25-8AK176-1	2011-08-26 0(	838621.3125	1160672	4524.895996	340	R	272	294	1
4577-25-8AK176-2	2011-08-24 0(	838679.625	1160667	4509.167969	340	I	254	267	1
4577-25-8AK179-1	2011-08-08 0(	838667.625	1160844	4511.787109	360	R	273	288	1
4577-25-8AK181-1	2011-08-08 0(	838656.8125	1160903	4507.516113	340	I	276	289	1
4577-25-8AK184-1	2011-08-17 0(	838657.6875	1161077	4553.439941	380	I	323	336	1
4577-25-8AK185-1	2011-08-11 0(	838647.625	1161139	4546.678223	380	R	317	335	1
4577-25-8AK186-1	2011-08-17 0(	838610.8125	1161186	4531.039063	360	I	302	316	1
4577-25-8AK187-1	2011-08-19 0(	838646.6875	1161238	4528.663086	360	I	299	316	1
4577-25-8AK187-2	2011-09-09 0(	838599.5	1161245	4524.352051	360	R	298	315	1
4577-25-8AK188-1	2011-09-08 0(	838610.875	1161293	4532.211914	360	I	305	322	1
4577-25-8AK188-2	2011-08-25 0(	838670.8125	1161290	4533.14209	360	I	302	316	1
4577-25-8AK190-1	2011-08-24 0(	838633	1161358	4509.941895	340	I	285	302	1
4577-25-8AK190-2	2011-08-25 0(	838688.5	1161352	4511.158203	340	I	285	305	1
4577-25-8AK191-2	2011-08-23 0(	838677.625	1161400	4512.437988	340	R	286	309	1
4577-25-8AK191-3	2011-08-23 0(	838675.375	1161445	4511.801758	340	I	285	315	1
4577-25-8AK192-1	2011-08-26 0(	838609.8125	1161462	4526.733887	340	I	305	328	1
4577-25-8AK193-1	2011-08-29 0(	838648.1875	1161509	4526.416992	340	R	305	333	1
4577-25-8AK194-1	2011-08-26 0(	838688.8125	1161553	4526.605957	360	R	312	338	1
4577-25-8AK194-2	2011-08-30 0(	838628.875	1161570	4525.748047	360	R	310	340	1
4577-25-8AK195-1	2011-08-26 0(	838649.3125	1161625	4529.897949	380	I	315	340	1
4577-25-8AK196-1	2011-08-24 0(	838604.1875	1161650	4541.310059	380	R	327	354	1
4577-25-8AK196-2	2011-09-12 0(	838677.3125	1161672	4531.768066	380	R	317	346	1
4577-25-8AK197-1	2011-11-11 0(	838628	1161711	4539.25	380	I	330	357	1
4577-25-8AK198-1	2011-08-26 0(	838603.125	1161783	4545.480957	480	I	337	361	1
4577-25-8AK198-2	2012-01-26 0(	838657	1161753	4541.285156	380	R	334	358	1
4577-25-8AK199-1	2011-08-23 0(	838630.3125	1161838	4551.029785	400	R	342	370	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8AK199-2	2011-08-26 0(	838680.375	1161813	4545.457031	380	R	336	360	1
4577-25-8AK200-1	2011-08-26 0(	838655.875	1161894	4554.515137	400	I	359	373	1
4577-25-8AK201-2	2011-08-29 0(	838679.375	1161945	4561.509766	400	R	359	378	1
4577-25-8AK201-3	2011-09-09 0(	838604.3125	1161925	4566.189941	400	R	365	383	1
4577-25-8AK202-1	2011-08-24 0(	838639.3125	1161986	4567.862793	400	I	367	384	1
4577-25-8AL177-1	2011-08-18 0(	838748.625	1160746	4543.640137	360	I	303	318	1
4577-25-8AL178-1	2011-08-26 0(	838729.375	1160776	4540.426758	360	I	298	317	1
4577-25-8AL178-2	2011-08-29 0(	838783.8125	1160787	4546.954102	360	R	305	323	1
4577-25-8AL180-1	2011-07-27 0(	838742.6875	1160850	4545.263184	360	R	311	325	1
4577-25-8AL180-2	2011-08-18 0(	838787.375	1160852	4549.846191	360	I	315	329	1
4577-25-8AL185-1	2011-08-10 0(	838710	1161127	4555.995117	380	I	322	339	1
4577-25-8AL190-1	2011-08-25 0(	838766.125	1161356	4513.228027	340	I	285	305	1
4577-25-8AL190-2	2011-08-22 0(	838731.5	1161403	4512.117188	340	I	385	308	1
4577-25-8AL191-1	2011-08-23 0(	838778.625	1161430	4513.486816	340	I	280	298	1
4577-25-8AL192-1	2011-08-22 0(	838732.5	1161464	4513.862793	340	R	290	319	1
4577-25-8AL193-1	2011-08-23 0(	838708.625	1161502	4515.768066	340	I	290	320	1
4577-25-8AL194-1	2011-08-31 0(	838797.8125	1161569	4528.611816	380	I	305	335	1
4577-25-8AL194-2	2011-09-12 0(	838702.625	1161597	4526.443848	360	I	309	339	1
4577-25-8AL195-1	2011-09-08 0(	838735.875	1161642	4530.516113	360	I	315	343	1
4577-25-8AL195-2	2011-08-22 0(	838797.5	1161623	4518.301758	360	R	297	327	1
4577-25-8AL196-1	2011-08-24 0(	838760.625	1161698	4518.546875	360	R	303	333	1
4577-25-8AL197-1	2011-08-23 0(	838699.625	1161720	4539.150879	380	I	333	356	1
4577-25-8AL198-1	2011-08-23 0(	838726.1875	1161779	4541.76123	380	R	332	357	1
4577-25-8AL198-2	2011-09-01 0(	838778.8125	1161759	4522	380	I	320	340	1
4577-25-8AL199-1	2012-01-19 0(	838755.875	1161823	4536.123047	332	I	332	347	1
4577-25-8AL200-1	2011-08-23 0(	838703.8125	1161862	4549.021973	400	I	340	366	1
4577-25-8AL200-2	2011-09-14 0(	838776.3125	1161884	4542.330078	400	R	337	347	1
4577-25-8AL201-1	2011-08-23 0(	838724.625	1161918	4555.522949	400	I	356	368	1
4577-25-8AL201-2	2011-09-01 0(	838786.875	1161937	4549.120117	400	I	340	355	1
4577-25-8AM177-1	2011-07-27 0(	838829	1160750	4553.560059	360	I	311	331	1
4577-25-8AM190-1	2011-09-14 0(	838865.125	1161392	4513.310059	340	I	270	290	1
4577-25-8AM192-1	2011-08-23 0(	838823.1875	1161485	4515.309082	360	I	285	315	1
4577-25-8AM192-2	2011-09-09 0(	838873.5	1161453	4513.917969	340	R	270	302	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8AM193-1	2011-08-31 0(	838894.3125	1161503	4531.561035	360	I	297	323	1
4577-25-8AM193-2	2011-08-31 0(	838859.3125	1161540	4546.592773	360	R	313	348	1
4577-25-8AM194-1	2011-08-30 0(	838844.375	1161590	4531.396973	380	I	310	335	1
4577-25-8AM194-3	2012-01-25 0(	838921.625	1161568	4554.065918	380	R	322	355	1
4577-25-8AM195-1	2011-09-02 0(	838870.875	1161644	4522.124023	360	R	301	329	1
4577-25-8AM196-1	2011-08-24 0(	838822.6875	1161678	4520.315918	360	I	305	328	1
4577-25-8AM197-1	2011-08-25 0(	838845.3125	1161737	4520.788086	360	R	306	332	1
4577-25-8AM197-2	2011-08-22 0(	838884.3125	1161705	4521.37207	360	I	310	330	1
4577-25-8AM198-1	2011-08-22 0(	838867.8125	1161792	4523.722168	360	I	315	332	1
4577-25-8AM199-1	2011-08-23 0(	838883.375	1161836	4525.297852	360	R	310	334	1
4577-25-8AM199-2	2011-08-24 0(	838809	1161807	4532.51709	360	R	323	347	1
4577-25-8AM200-1	2011-08-23 0(	838885.375	1161894	4526.824219	360	I	322	335	1
4577-25-8AM200-2	2011-09-14 0(	838829.875	1161856	4537.432129	360	I	327	338	1
4577-25-8AM201-1	2011-08-22 0(	838838.3125	1161917	4527.868164	360	R	318	338	1
4577-25-8AM202-1	2011-08-24 0(	838846.875	1161980	4530.038086	380	I	320	335	1
4577-25-8AN191-1	2011-09-14 0(	838931.8125	1161440	4514.053223	340	I	270	300	1
4577-25-8AN192-2	2011-11-09 0(	838935.1875	1161498	4541	380	R	296	330	1
4577-25-8AN193-1	2011-09-14 0(	838949.6875	1161545	4553.525879	380	R	326	350	1
4577-25-8AN195-2	2011-11-14 0(	838920.375	1161614	4555.274902	380	I	333	358	1
4577-25-8AN196-1	2011-11-11 0(	838931.125	1161680	4527.595215	380	R	308	333	1
4577-25-8AN198-1	2012-01-12 0(	838910.125	1161751	4522.326172	330	R	309	329	1
4577-25-8AN199-1	2011-11-08 0(	838937.6875	1161812	4534.645996	360	I	325	345	1
4577-25-8DM10A	2012-07-26 0(	837149	1159563	4500	440	DM	370	410	1
4577-25-8DM11A	2012-07-26 0(	837238	1158890	4500	440	DM	0	0	1
4577-25-8DM14	2011-07-07 0(	836470.3125	1158897	4549.940918	420	DM	370	405	1
4577-25-8DM3	2011-06-22 0(	838458.125	1160822	4504.584961	390	DM	335	385	1
4577-25-8DM4A	2011-08-03 0(	837684.625	1162043	4602.183105	520	DM	450	465	1
4577-25-8DM5B	2011-08-19 0(	837570.1875	1161227	4569.315918	420	DM	410	460	1
4577-25-8DM6A	2011-08-15 0(	836767	1162710	4602.112793	540	DM	475	515	1
4577-25-8DM7	2011-06-22 0(	836947.375	1162103	4615.541992	540	DM	465	520	1
4577-25-8DM8B	2011-08-16 0(	836881.875	1161168	4576.911133	500	DM	430	480	1
4577-25-8DM9A	2011-08-04 0(	837048.125	1160666	4546.290039	460	DM	395	435	1
4577-25-8MW1	2011-06-28 0(	836661.3125	1159488	4541.330078	340	PM	244	320	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8MW10	2011-06-28 0(	836517.6875	1162074	4591.269043	440	PM	345	412	1
4577-25-8MW11	2011-06-30 0(	836384.125	1162333	4576.898926	420	PM	335	400	1
4577-25-8MW12A	2011-08-09 0(	836222.6875	1162584	4568.850098	320	PM	320	395	1
4577-25-8MW18	2011-07-05 0(	838091.6875	1162521	4573.745117	400	PM	315	400	1
4577-25-8MW19	2011-06-30 0(	838604.125	1162485	4593.550781	420	PM	335	405	1
4577-25-8MW2	2011-06-30 0(	836681.3125	1159780	4509.687012	320	PM	208	293	1
4577-25-8MW3	2011-06-30 0(	836633.1875	1160065	4501.466797	300	PM	210	295	1
4577-25-8MW39A	2011-08-11 0(	838710.875	1160016	4564.470215	360	PM	260	320	1
4577-25-8MW4	2011-07-12 0(	836680.3125	1160365	4535.866211	360	PM	270	335	1
4577-25-8MW40A	2011-08-11 0(	838228.125	1160055	4556.918945	360	PM	255	325	1
4577-25-8MW41B	2011-08-15 0(	837732.8125	1160008	4523.112793	320	PM	235	295	1
4577-25-8MW42	2011-07-07 0(	837746.125	1159502	4557.270996	360	PM	265	325	1
4577-25-8MW43	2011-07-06 0(	837900.875	1159034	4568.981934	360	PM	265	330	1
4577-25-8MW44	2011-07-07 0(	837891.875	1158539	4557.685059	360	PM	270	305	1
4577-25-8MW45	2011-07-20 0(	837600	1158149	4546.644043	300	PM	215	285	1
4577-25-8MW46	2011-07-11 0(	837129.5	1157976	4528.326172	300	PM	205	275	1
4577-25-8MW47A	2011-08-02 0(	836789.3125	1157626	4532.187012	300	PM	215	280	1
4577-25-8MW48	2011-08-17 0(	836371.8125	1157778	4506.161133	280	PM	179	259	1
4577-25-8MW49	2012-05-31 0(	836127	1158033	4515.27002	310	PM	190	275	1
4577-25-8MW5	2011-06-30 0(	836642.5	1160655	4549.878906	440	PM	280	360	1
4577-25-8MW50	2012-05-31 0(	836055	1158322	4515.439941	315	PM	210	280	1
4577-25-8MW51	2012-06-01 0(	836096.875	1158603	4546.379883	325	PM	240	310	1
4577-25-8MW52	2011-07-08 0(	836105.8125	1158914	4544.279785	330	PM	255	320	1
4577-25-8MW53	2011-07-08 0(	836211.625	1159152	4563.810059	360	PM	275	340	1
4577-25-8MW54	2011-07-11 0(	836495.375	1159244	4548.912109	340	PM	265	320	1
4577-25-8MW6	2011-06-29 0(	836616.125	1160949	4561.741211	360	PM	299	375	1
4577-25-8MW7A	2011-08-09 0(	836514.375	1161207	4580.512207	400	PM	334	394	1
4577-25-8MW8	2011-06-29 0(	836504.1875	1161505	4584.942871	420	PM	340	398	1
4577-25-8MW9	2011-06-28 0(	836438.3125	1161788	4580.748047	420	PM	332	402	1
4577-25-8N131-1	2012-04-05 0(	836373.875	1158421	4527.914063	310	R	258	288	1
4577-25-8N137-2	2012-06-11 0(	836404.625	1158744	4544.028809	340	I	285	316	1
4577-25-8N139-1	2012-03-09 0(	836396.3125	1158848	4552.299805	340	I	270	298	1
4577-25-8O125-1	2012-04-10 0(	836430.125	1158133	4517.632813	300	I	229	262	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8O125-2	2012-04-05 0(	836486.3125	1158103	4520.204102	300	R	230	260	1
4577-25-8O126-1	2012-04-10 0(	836439.1875	1158192	4514.327148	300	R	231	261	1
4577-25-8O126-2	2012-04-09 0(	836495.875	1158165	4516.375	300	I	233	264	1
4577-25-8O126-3	2012-06-01 0(	836403.375	1158174	4512.971191	300	I	234	259	1
4577-25-8O127-1	2012-03-29 0(	836466.875	1158245	4518.865234	300	I	233	263	1
4577-25-8O127-2	2012-06-11 0(	836404	1158230	4517.660156	300	R	245	277	1
4577-25-8O128-1	2012-03-30 0(	836421.875	1158282	4520.682129	300	R	248	278	1
4577-25-8O129-1	2012-04-09 0(	836458.8125	1158326	4523.106934	310	I	238	269	1
4577-25-8O129-2	2012-06-01 0(	836401.375	1158329	4523.39209	310	I	252	284	1
4577-25-8O130-1	2012-03-16 0(	836412.5	1158376	4525.899902	310	R	255	287	1
4577-25-8O134-1	2012-03-15 0(	836490.6875	1158566	4533.600098	320	I	262	289	1
4577-25-8O135-1	2012-04-04 0(	836409.625	1158630	4539.871094	330	I	276	305	1
4577-25-8O135-2	2012-04-05 0(	836472.125	1158622	4536.881836	320	I	272	302	1
4577-25-8O136-1	2012-04-04 0(	836414.625	1158688	4543.028809	330	R	281	312	1
4577-25-8O136-2	2012-03-16 0(	836473.875	1158685	4539.399902	320	I	280	310	1
4577-25-8O137-1	2012-04-03 0(	836448.8125	1158739	4542.160156	330	I	285	317	1
4577-25-8O138-1	2012-03-30 0(	836416.6875	1158792	4546.674805	330	R	286	317	1
4577-25-8O138-2	2012-03-30 0(	836477.875	1158787	4543.467773	330	I	261	290	1
4577-25-8O139-1	2012-03-09 0(	836455.8125	1158841	4547.200195	330	R	266	294	1
4577-25-8O140-1	2012-06-05 0(	836436.125	1158897	4551.815918	360	I	272	302	1
4577-25-8O216-1	2012-01-19 0(	836484.3125	1162657	4587.5	420	I	340	352	1
4577-25-8P122-1	2012-04-05 0(	836596.3125	1157988	4525.28418	300	I	234	258	1
4577-25-8P122-2	2012-06-01 0(	836533.875	1157992	4524.536133	300	I	232	262	1
4577-25-8P123-1	2012-03-30 0(	836498.3125	1158047	4522.410156	300	R	230	258	1
4577-25-8P123-2	2012-04-11 0(	836560.3125	1158036	4523.838867	300	I	233	263	1
4577-25-8P124-1	2012-05-07 0(	836544.8125	1158096	4521.49707	300	I	228	255	1
4577-25-8p126-1	2012-04-09 0(	836555.875	1158151	4519.524902	300	R	236	266	1
4577-25-8P127-1	2012-04-09 0(	836520.3125	1158226	4516.967773	300	I	232	262	1
4577-25-8P127-2	2012-05-07 0(	836581.3125	1158207	4519.276855	300	I	237	270	1
4577-25-8P128-1	2012-03-30 0(	836557	1158276	4520.904785	300	R	238	267	1
4577-25-8P128-2	2012-06-01 0(	836501.8125	1158292	4521.182129	320	R	237	267	1
4577-25-8P133-1	2012-03-15 0(	836573.6875	1158508	4530.5	310	I	264	294	1
4577-25-8P134-1	2012-03-15 0(	836549.3125	1158562	4532.399902	320	R	263	297	1

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4577-25-8P135-1	2012-03-15 0(	836533.1875	1158621	4534.899902	320	R	265	294	1
4577-25-8P135-2	2012-03-14 0(	836587.125	1158646	4535.100098	320	I	272	305	1
4577-25-8P136-1	2012-03-14 0(	836525	1158664	4536.600098	320	I	272	303	1
4577-25-8P136-2	2012-03-14 0(	836554.8125	1158697	4537.600098	320	I	274	306	1
4577-25-8P137-1	2012-03-16 0(	836508.3125	1158733	4539.700195	320	R	281	312	1
4577-25-8P138-1	2012-03-13 0(	836561.8125	1158764	4540.100098	320	I	276	308	1
4577-25-8P139-1	2012-03-09 0(	836528.875	1158818	4543.100098	320	R	258	288	1
4577-25-8P139-2	2012-03-09 0(	836588.8125	1158815	4543.100098	320	I	258	273	1
4577-25-8P140-1	2012-03-09 0(	836508.1875	1158870	4546.399902	330	I	265	292	1
4577-25-8P214-1	2012-01-18 0(	836545.625	1162575	4583.200195	420	I	342	370	1
4577-25-8P215-1	2012-01-18 0(	836540.125	1162633	4588.399902	420	R	343	372	1
4577-25-8P215-2	2012-01-18 0(	836597.8125	1162618	4591.200195	430	I	350	385	1
4577-25-8P216-1	2012-01-20 0(	836544	1162693	4593.299805	430	I	355	390	1
4577-25-8Q126-1	2012-05-07 0(	836614.8125	1158153	4521.733887	300	I	238	268	1
4577-25-8Q132-1	2012-03-14 0(	836643	1158470	4527.899902	312	I	271	290	1
4577-25-8Q133-1	2012-03-14 0(	836630.125	1158526	4530.700195	310	R	265	296	1
4577-25-8Q134-1A	2012-06-08 0(	836610.125	1158580	4532.579102	320	I	267	301	1
4577-25-8Q134-2	2012-03-19 0(	836690.3125	1158552	4531.5	320	I	281	298	1
4577-25-8Q135-1	2012-03-15 0(	836664.6875	1158615	4533.399902	320	R	267	300	1
4577-25-8Q136-1	2012-03-15 0(	836642.8125	1158673	4535.578125	320	I	271	305	1
4577-25-8Q137-1	2012-03-14 0(	836609.3125	1158723	4537.600098	320	R	273	307	1
4577-25-8Q138-1	2012-03-09 0(	836639.125	1158777	4539.600098	320	I	274	307	1
4577-25-8Q215-1	2012-01-30 0(	836648.6875	1162644	4604.5	440	I	365	397	1
4577-25-8Q215-2	2012-01-19 0(	836683.3125	1162641	4598.799805	440	I	362	392	1
4577-25-8Q216-1	2012-01-20 0(	836600.1875	1162676	4601.600098	430	R	360	395	1
4577-25-8Q216-2	2012-01-19 0(	836669.8125	1162700	4603.5	440	R	363	397	1
4577-25-8Q217-1	2012-01-30 0(	836618.625	1162733	4612.399902	440	I	375	405	1
4577-25-8R131-1	2012-03-15 0(	836737	1158440	4528.5	310	I	268	284	1
4577-25-8R132-1	2012-03-15 0(	836705.3125	1158488	4529.899902	310	R	274	294	1
4577-25-8R133-1	2012-03-14 0(	836763.875	1158505	4531	310	I	274	294	1
4577-25-8R134-1	2012-03-15 0(	836749	1158567	4533	310	R	281	299	1
4577-25-8R135-1	2012-03-15 0(	836723.6875	1158622	4534.600098	320	I	284	300	1
4577-25-8R198-1	2012-02-01 0(	836801.5	1161787	4597.174805	420	I	360	387	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8R200-1	2012-01-12 0(	836736.125	1161873	4606.828125	430	I	384	396	1
4577-25-8R200-2	2012-02-01 0(	836788.875	1161863	4601.662109	430	I	365	390	1
4577-25-8R201-1	2012-01-11 0(	836794.1875	1161909	4605.919922	430	R	371	396	1
4577-25-8R215-1	2012-01-24 0(	836742.3125	1162642	4594.600098	430	R	353	387	1
4577-25-8R216-1	2012-01-23 0(	836728.625	1162699	4596.100098	440	R	355	385	1
4577-25-8R216-2	2012-01-27 0(	836787.6875	1162682	4601.399902	440	I	362	390	1
4577-25-8R217-1	2012-01-23 0(	836708.125	1162744	4599.100098	440	I	362	390	1
4577-25-8R217-2	2012-01-25 0(	836769.875	1162746	4607.200195	450	R	367	398	1
4577-25-8R219-1	2012-01-25 0(	836750.875	1162801	4611.02002	450	I	372	400	1
4577-25-8S132-1	2012-03-16 0(	836850.3125	1158489	4531.544922	310	I	269	293	1
4577-25-8S133-1	2012-05-03 0(	836874.375	1158550	4533.782227	310	I	286	296	1
4577-25-8S133-2	2012-05-03 0(	836816.6875	1158529	4532.185059	310	R	275	298	1
4577-25-8S134-1	2012-03-14 0(	836807.625	1158581	4534.5	310	I	284	299	1
4577-25-8S185-1	2011-06-27 0(	836873.875	1161142	4573.956055	400	BL	320	340	
4577-25-8S187-1	2012-02-10 0(	836890.375	1161243	4579.100098	400	I	369	387	1
4577-25-8S190-1	2012-02-02 0(	836847.875	1161355	4584	410	I	380	390	1
4577-25-8S191-1	2012-02-02 0(	836824.375	1161436	4589.799805	420	I	387	395	1
4577-25-8S191-2	2012-02-02 0(	836878	1161408	4582.5	420	R	376	386	1
4577-25-8S192-1	2012-02-01 0(	836840.5	1161490	4590.600098	420	R	386	397	1
4577-25-8S192-2	2012-02-02 0(	836890.1875	1161465	4582.365234	420	I	379	389	1
4577-25-8S193-1	2012-01-30 0(	836805.375	1161537	4596.365234	430	I	392	402	1
4577-25-8S194-1	2012-02-01 0(	836845.375	1161592	4594.094238	430	I	350	365	1
4577-25-8S194-2	2012-02-02 0(	836900.125	1161574	4589.200195	410	R	344	356	1
4577-25-8S195-1	2012-02-01 0(	836891.8125	1161629	4588.399902	420	R	345	364	1
4577-25-8S196-1	2012-01-26 0(	836848.5	1161672	4592.38623	420	I	351	369	1
4577-25-8S198-1	2012-01-12 0(	836855.375	1161784	4590.285156	430	I	348	378	1
4577-25-8S199-1	2012-02-01 0(	836853.125	1161845	4593.755859	430	R	352	382	1
4577-25-8S199-2	2012-01-26 0(	836896.875	1161838	4588.653809	430	I	355	380	1
4577-25-8S201-1	2012-01-27 0(	836865.1875	1161916	4603.067871	430	I	375	398	1
4577-25-8S202-1	2012-01-12 0(	836818.1875	1161997	4610.721191	430	I	385	405	1
4577-25-8S202-2	2012-01-10 0(	836873.6875	1161972	4608.180176	430	R	380	412	1
4577-25-8S203-1	2012-01-12 0(	836882.3125	1162032	4609.600098	430	I	385	415	1
4577-25-8S213-1	2012-01-10 0(	836882.375	1162522	4613.299805	450	I	395	415	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8S214-1	2012-01-20 0(	836801.125	1162563	4598	430	I	365	390	1
4577-25-8S214-2	2012-01-13 0(	836856.8125	1162579	4607.299805	440	R	373	407	1
4577-25-8S215-1	2012-01-24 0(	836807.125	1162621	4597.899902	430	R	360	390	1
4577-25-8S215-2	2012-01-20 0(	836864.8125	1162637	4606.299805	440	I	390	400	1
4577-25-8S216-1	2012-01-25 0(	836832.125	1162676	4596	450	I	370	390	1
4577-25-8S217-1	2012-01-26 0(	836818.125	1162735	4609.799805	450	R	371	403	1
4577-25-8S217-2	2012-01-25 0(	836871.5	1162704	4598.600098	450	R	365	395	0
4577-25-8S218-1A	2012-04-12 0(	836805.625	1162792	4617.799805	420	I	385	410	1
4577-25-8S218-2	2012-01-24 0(	836873.3125	1162758	4612.200195	450	I	408	409	1
4577-25-8SM10	2011-07-11 0(	837145.875	1159552	4548.102051	200	SM	165	180	1
4577-25-8SM11	2011-06-24 0(	837220.8125	1158891	4557.150879	210	SM	155	175	1
4577-25-8SM14	2011-07-06 0(	836460.3125	1158897	4550.682129	200	SM	150	190	1
4577-25-8SM2	2011-07-05 0(	838599.125	1161713	4545.347168	250	SM	193	210	1
4577-25-8SM3	2011-06-27 0(	838458.6875	1160830	4504.938965	170	SM	135	165	1
4577-25-8SM4A	2011-08-04 0(	837679	1162030	4601.974121	300	SM	245	280	1
4577-25-8SM5A	2011-08-02 0(	837591.1875	1161229	4571.233887	230	SM	214	228	1
4577-25-8SM8	2011-06-30 0(	836873.1875	1161154	4576.743164	270	SM	220	250	1
4577-25-8SM9	2011-07-07 0(	837055.5	1160655	4544.060059	230	SM	175	210	1
4577-25-8T162-1	2012-02-22 0(	836964	1159951	4522.799805	320	I	299	309	1
4577-25-8T166-1	2012-03-26 0(	836983.875	1160201	4497.394043	320	I	260	277	1
4577-25-8T168-1	2012-02-16 0(	836979.125	1160259	4496.799805	320	R	262	280	1
4577-25-8T169-1	2012-03-23 0(	836983.3125	1160320	4499.899902	320	I	264	274	1
4577-25-8T185-1	2012-02-02 0(	836967.375	1161109	4569.700195	400	I	363	375	1
4577-25-8T186-1	2012-02-08 0(	836921.3125	1161174	4573.600098	400	I	365	380	1
4577-25-8T186-2	2012-02-07 0(	836984.8125	1161170	4567.705078	400	R	354	374	1
4577-25-8T187-1	2012-02-03 0(	836949	1161232	4571.100098	400	R	360	379	1
4577-25-8T188-1A	2012-04-18 0(	836936.875	1161283	4573.638184	390	I	365	382	1
4577-25-8T190-1	2012-02-02 0(	836909.3125	1161358	4577.316895	410	I	370	380	1
4577-25-8T193-1	2012-02-02 0(	836915.3125	1161517	4580.200195	410	I	343	354	1
4577-25-8T194-1	2012-02-06 0(	836955.3125	1161560	4582.799805	410	I	339	349	1
4577-25-8T195-1	2012-02-02 0(	836947.125	1161612	4582.700195	410	I	337	358	1
4577-25-8T200-1	2012-01-27 0(	836919.375	1161892	4597.562012	420	R	362	398	1
4577-25-8T200-2	2012-01-03 0(	836976.625	1161868	4592.078125	410	I	375	392	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8T201-1	2012-01-30 0(	836982.5	1161926	4596.499023	420	R	366	396	1
4577-25-8T202-1A	2012-04-04 0(	836935.625	1161960	4602.226074	420	I	378	405	1
4577-25-8T202-2	2012-01-26 0(	836993.375	1161992	4601.568848	420	I	372	395	1
4577-25-8T203-1	2012-01-10 0(	836939.3125	1162012	4607.308105	430	R	378	410	1
4577-25-8T204-2	2012-01-06 0(	836966.125	1162069	4612.123047	430	I	385	410	1
4577-25-8T205-1	2011-06-24 0(	836935.5	1162121	4613.705078	440	R	390	413	1
4577-25-8T206-1	2012-01-04 0(	837001.6875	1162152	4611.328125	440	R	381	409	1
4577-25-8T206-2	2012-03-06 0(	836938.125	1162177	4605.299805	440	I	390	405	1
4577-25-8T207-1	2012-01-04 0(	836997.625	1162209	4607.600098	440	I	390	413	1
4577-25-8T210-1	2012-01-09 0(	836945.125	1162376	4610.899902	430	I	385	410	1
4577-25-8T212-1	2012-01-10 0(	836944.1875	1162474	4611.700195	440	I	393	408	1
4577-25-8T212-2	2012-02-01 0(	836999.375	1162494	4630.211914	460	R	403	428	1
4577-25-8T213-1	2012-01-13 0(	836938.8125	1162536	4629.89209	450	R	404	430	1
4577-25-8T214-1	2012-01-12 0(	836916.8125	1162589	4617.100098	440	I	397	415	1
4577-25-8T214-2	2012-01-12 0(	836998.375	1162555	4637.450195	460	I	413	436	1
4577-25-8T215-1	2012-01-19 0(	836999.8125	1162619	4628.143066	450	R	392	418	1
4577-25-8T216-1	2012-02-08 0(	836911.1875	1162662	4610.700195	460	I	375	405	1
4577-25-8T217-1	2012-01-26 0(	836912.1875	1162728	4602	450	R	366	396	1
4577-25-8T217-2A	2012-04-04 0(	836950.125	1162695	4611.664063	420	I	375	402	1
4577-25-8U147-1	2012-05-07 0(	837078.625	1159213	4539.862793	330	I	246	260	1
4577-25-8U155-1	2012-02-16 0(	837078.8125	1159643	4543.5	340	I	308	318	1
4577-25-8U157-1	2012-02-21 0(	837073.5	1159721	4544.5	340	I	310	323	1
4577-25-8U158-1	2012-02-21 0(	837069.8125	1159790	4545.5	340	I	306	327	1
4577-25-8U159-1	2012-02-21 0(	837074.5	1159848	4546.5	340	R	310	326	1
4577-25-8U160-1	2012-02-29 0(	837020.375	1159881	4538	340	I	306	320	1
4577-25-8U161-1	2012-03-12 0(	837019.8125	1159939	4524.200195	340	R	297	310	1
4577-25-8U161-2	2012-02-27 0(	837073.6875	1159907	4538.100098	320	I	299	320	1
4577-25-8U162-1	2012-02-24 0(	837013.625	1159980	4515.899902	320	I	294	304	1
4577-25-8U162-2	2012-02-27 0(	837064.125	1159970	4517.299805	320	R	289	299	1
4577-25-8U165-1	2012-02-22 0(	837051.875	1160126	4491.200195	320	I	246	261	1
4577-25-8U166-1	2012-02-22 0(	837042.8125	1160194	4505.399902	320	R	267	291	1
4577-25-8U167-1	2012-02-17 0(	837039.875	1160242	4500.799805	320	I	265	286	1
4577-25-8U167-2	2012-02-17 0(	837094.625	1160223	4502.299805	320	R	260	280	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8U168-1	2012-02-17 0(	837086	1160283	4512.799805	340	I	272	285	1
4577-25-8U170-1	2012-02-15 0(	837093	1160397	4524.100098	340	I	291	320	1
4577-25-8U176-1	2011-06-27 0(	837047.8125	1160671	4544.894043	350	BL	312	329	1
4577-25-8U176-2	2012-02-15 0(	837094	1160666	4537.5	360	I	315	340	1
4577-25-8U178-1	2012-02-09 0(	837062.8125	1160781	4546.399902	370	I	335	352	1
4577-25-8U182-1	2012-02-06 0(	837086.125	1160985	4549.100098	370	I	335	355	1
4577-25-8U183-1	2012-02-08 0(	837020.125	1161046	4564.5	380	I	357	370	1
4577-25-8U183-2	2012-02-06 0(	837079.625	1161045	4552.700195	380	R	338	360	1
4577-25-8U185-1	2012-02-07 0(	837024.875	1161106	4564	380	R	351	371	1
4577-25-8U185-2	2012-02-06 0(	837088.625	1161105	4555.100098	380	I	340	362	1
4577-25-8U186-1	2012-02-07 0(	837050	1161161	4559.399902	380	I	344	366	1
4577-25-8U187-1	2012-02-02 0(	837011.125	1161225	4564.399902	400	I	355	372	1
4577-25-8U201-1	2012-01-06 0(	837036.125	1161901	4584.938965	410	I	365	375	1
4577-25-8U202-1	2012-01-30 0(	837047.625	1161961	4596.50293	440	R	370	395	1
4577-25-8U203-2A	2012-04-05 0(	837068.8125	1162022	4603.960938	416	I	379	404	1
4577-25-8U203-3	2012-03-06 0(	837009.5	1162041	4603.943848	400	R	371	400	1
4577-25-8U204-1	2011-12-28 0(	837018.5	1162095	4612.299805	440	I	380	405	1
4577-25-8U204-2	2012-01-18 0(	837078.1875	1162073	4608.799805	430	R	375	405	1
4577-25-8U205-1	2012-01-06 0(	837079.8125	1162129	4618.351074	440	I	390	410	1
4577-25-8U205-2	2011-12-27 0(	837048.375	1162123	4614.870117	440	I	385	410	1
4577-25-8U206-1	2011-12-28 0(	837049.3125	1162181	4614.399902	440	R	385	418	1
4577-25-8U207-2	2011-12-28 0(	837072.3125	1162237	4614.600098	440	I	390	420	1
4577-25-8U208-1	2012-01-23 0(	837070.6875	1162299	4614.5	430	R	388	420	1
4577-25-8U209-2	2012-01-10 0(	837009.6875	1162313	4612	430	I	385	410	1
4577-25-8U210-1	2012-01-10 0(	837007.3125	1162368	4615.100098	430	R	387	420	1
4577-25-8U210-2	2012-01-20 0(	837067.5	1162359	4617	450	I	390	422	1
4577-25-8U211-1	2012-01-10 0(	837001.1875	1162433	4622.700195	450	I	395	420	1
4577-25-8U211-2	2012-01-06 0(	837057.375	1162415	4620.200195	450	R	392	427	1
4577-25-8U212-1	2012-01-12 0(	837055.5	1162473	4633.73877	450	I	409	441	1
4577-25-8U213-1	2012-01-30 0(	837059.3125	1162535	4646.716797	460	R	412	445	1
4577-25-8U214-1	2012-01-27 0(	837069.125	1162594	4631.358887	460	R	398	430	1
4577-25-8U215-1	2012-01-12 0(	837039.1875	1162630	4624.759766	450	I	392	413	1
4577-25-8U215-2	2012-01-31 0(	837096.1875	1162649	4628.304199	450	I	388	420	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8U216-1	2012-01-24 0(	837009.6875	1162680	4618.925781	450	R	380	410	1
4577-25-8U217-1	2012-01-16 0(	837065.625	1162700	4621.973145	450	R	383	413	1
4577-25-8U217-2	2012-01-18 0(	837008.5	1162740	4617.143066	450	I	375	402	1
4577-25-8V142-1	2012-03-12 0(	837132.3125	1158964	4560.200195	340	I	288	321	1
4577-25-8V142-2	2012-03-08 0(	837190.3125	1158950	4558.600098	340	R	289	319	1
4577-25-8V143-1	2012-03-09 0(	837193.125	1159012	4556.899902	340	I	285	315	1
4577-25-8V144-1	2012-03-13 0(	837125	1159052	4553.942871	340	I	278	298	1
4577-25-8V144-2	2012-03-08 0(	837182.3125	1159067	4553	340	R	262	294	1
4577-25-8V145-1	2012-03-13 0(	837159.1875	1159123	4548.5	330	I	257	285	1
4577-25-8V146-1	2012-03-09 0(	837186.5	1159179	4551	330	I	262	285	1
4577-25-8V146-2	2012-05-07 0(	837126.625	1159176	4544.172852	330	R	250	280	1
4577-25-8V147-1	2012-03-12 0(	837112.125	1159244	4545	330	I	251	268	1
4577-25-8V149-1	2012-03-01 0(	837163.1875	1159347	4549.899902	330	I	255	265	1
4577-25-8V152-2	2012-03-01 0(	837164.125	1159457	4550.5	340	I	265	295	1
4577-25-8V153-1	2011-06-24 0(	837143.8125	1159542	4548.25293	340	I	305	322	1
4577-25-8V153-1A	2012-07-27 0(	837148	1159542	4500	340	BL	305	320	1
4577-25-8V153-2	2012-03-01 0(	837199.3125	1159510	4551	340	R	282	315	1
4577-25-8V154-1	2012-02-27 0(	837194.5	1159592	4550.200195	340	R	285	313	1
4577-25-8V155-2	2012-02-17 0(	837163.375	1159642	4548.5	340	I	290	319	1
4577-25-8V156-1	2012-02-16 0(	837120	1159684	4546.100098	340	R	307	319	1
4577-25-8V157-1	2012-02-21 0(	837167.375	1159721	4547.799805	340	I	290	324	1
4577-25-8V158-1	2012-02-21 0(	837119.625	1159757	4546.399902	340	R	291	325	1
4577-25-8V158-2	2012-03-28 0(	837175.875	1159782	4547.283203	340	R	295	315	1
4577-25-8V159-1	2012-02-22 0(	837127.125	1159815	4546.399902	340	I	297	325	1
4577-25-8V160-1	2012-03-28 0(	837142.375	1159873	4546.041016	340	R	300	325	1
4577-25-8V161-1	2012-03-13 0(	837123.5	1159927	4528	340	I	285	312	1
4577-25-8V161-2	2012-03-12 0(	837182.1875	1159917	4527.299805	340	R	283	306	1
4577-25-8V162-1	2012-02-27 0(	837113.875	1159992	4510.700195	320	R	270	294	1
4577-25-8V162-2	2012-03-12 0(	837182.3125	1159975	4517.5	340	I	279	299	1
4577-25-8V163-1	2012-03-19 0(	837116.875	1160044	4502.100098	320	I	264	274	1
4577-25-8V163-2	2012-03-29 0(	837176.6875	1160041	4494.915039	320	R	256	282	1
4577-25-8V164-1	2012-02-22 0(	837167.625	1160095	4491.899902	320	I	251	280	1
4577-25-8V166-1	2012-02-22 0(	837100.6875	1160168	4497.899902	320	I	258	268	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8V166-2	2012-02-22 0(	837157.8125	1160157	4496.700195	320	R	253	270	1
4577-25-8V167-1	2012-02-24 0(	837156.8125	1160207	4517.200195	320	I	276	300	1
4577-25-8V168-1	2012-02-21 0(	837141.5	1160274	4506.399902	340	R	266	292	1
4577-25-8V169-1	2012-02-21 0(	837104	1160313	4514.200195	340	I	286	311	1
4577-25-8V169-2	2012-02-16 0(	837179.1875	1160324	4515.600098	340	I	290	310	1
4577-25-8V170-1	2012-02-15 0(	837139.1875	1160360	4518.299805	340	R	290	312	1
4577-25-8V171-1	2012-02-16 0(	837171.6875	1160412	4521.299805	340	I	298	312	1
4577-25-8V172-2	2012-03-27 0(	837123.625	1160491	4531.644043	340	R	300	330	1
4577-25-8V173-1	2012-02-15 0(	837113.625	1160549	4535.899902	360	I	305	335	1
4577-25-8V173-2	2012-02-15 0(	837184.375	1160508	4524.899902	340	I	306	323	1
4577-25-8V174-1	2012-02-15 0(	837171.8125	1160567	4528	360	R	300	330	1
4577-25-8V175-1	2012-02-15 0(	837107.6875	1160608	4535.5	360	R	310	336	1
4577-25-8V175-2	2012-02-14 0(	837163.8125	1160627	4531.100098	360	I	304	337	1
4577-25-8V176-1	2012-02-15 0(	837152.625	1160687	4533	360	R	310	336	1
4577-25-8V177-1	2012-02-07 0(	837131	1160740	4535.399902	360	I	315	340	1
4577-25-8V178-1	2012-02-08 0(	837187	1160760	4535.200195	360	R	308	340	1
4577-25-8V179-1	2012-02-07 0(	837121.1875	1160800	4537.700195	370	R	312	342	1
4577-25-8V179-2	2012-02-13 0(	837173.625	1160814	4536.600098	360	I	308	340	1
4577-25-8V180-1	2012-02-08 0(	837105.8125	1160859	4541.799805	370	I	330	350	1
4577-25-8V180-2	2012-02-06 0(	837160.375	1160876	4539.399902	360	R	313	343	1
4577-25-8V181-1	2012-02-08 0(	837101.375	1160913	4544.799805	370	I	322	343	1
4577-25-8V181-2	2012-02-15 0(	837153.625	1160937	4540.600098	370	I	318	344	1
4577-25-8V182-1	2012-02-06 0(	837138.625	1160996	4545.100098	370	R	325	351	1
4577-25-8V184-1	2012-02-02 0(	837135.6875	1161056	4547.899902	370	I	332	355	1
4577-25-8V184-2	2012-02-09 0(	837194.125	1161060	4545.299805	370	R	323	351	1
4577-25-8V185-1	2012-02-02 0(	837149.875	1161114	4548.200195	370	R	328	353	1
4577-25-8V186-1	2012-02-01 0(	837163.5	1161174	4549.299805	380	I	333	357	1
4577-25-8V199-1	2012-01-05 0(	837139.375	1161844	4589.978027	410	I	370	387	1
4577-25-8V201-1	2012-01-03 0(	837103.8125	1161942	4596.312012	430	R	370	390	1
4577-25-8V201-2	2011-12-27 0(	837148.375	1161904	4596.60498	430	I	370	393	1
4577-25-8V202-1	2011-12-28 0(	837157.125	1161963	4600.362793	430	I	370	395	1
4577-25-8V203-1	2012-01-30 0(	837114.875	1161997	4602.120117	430	R	372	400	1
4577-25-8V204-1	2012-01-13 0(	837133.6875	1162059	4609.600098	440	I	383	408	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8V206-1	2012-01-09 0(	837108.125	1162168	4626.200195	460	I	405	428	1
4577-25-8V208-1	2012-01-09 0(	837130.375	1162286	4618.600098	440	I	402	418	1
4577-25-8V209-1	2012-01-09 0(	837125.5	1162344	4621.299805	450	R	395	421	1
4577-25-8V209-2	2012-01-06 0(	837182.875	1162343	4626.100098	460	I	407	422	1
4577-25-8V211-1	2012-01-05 0(	837117	1162405	4623.5	450	I	400	425	1
4577-25-8V211-2	2012-01-25 0(	837178.875	1162404	4635.824219	460	R	412	432	1
4577-25-8V212-1	2012-01-10 0(	837120.8125	1162462	4627.200195	450	R	396	426	1
4577-25-8V212-2	2012-01-10 0(	837174.3125	1162461	4630.299805	450	I	390	425	1
4577-25-8V213-2	2012-01-30 0(	837178.625	1162524	4645.141113	450	R	403	435	1
4577-25-8V214-1	2012-01-31 0(	837125.375	1162585	4636.271973	460	I	397	431	1
4577-25-8V214-2	2012-02-01 0(	837186.625	1162582	4641.708008	460	I	405	428	1
4577-25-8V215-1	2012-01-31 0(	837155.375	1162634	4636.996094	450	R	398	425	1
4577-25-8V217-1	2012-01-19 0(	837116.375	1162706	4635.367188	450	I	398	428	1
4577-25-8W136-1	2012-03-07 0(	837291.375	1158685	4546.700195	320	I	266	296	1
4577-25-8W137-1	2012-03-07 0(	837274.625	1158719	4548.200195	320	I	273	298	1
4577-25-8W138-1	2012-03-14 0(	837257.1875	1158772	4551	320	R	272	301	1
4577-25-8W139-1	2012-03-07 0(	837204.375	1158806	4552.700195	330	I	274	285	1
4577-25-8W139-2	2012-03-07 0(	837270.6875	1158833	4555.600098	330	I	276	306	1
4577-25-8W140-1/	2011-08-16 0(	837203.625	1158890	4557.379883	275	R	281	314	1
4577-25-8W140-2	2012-03-01 0(	837265.3125	1158892	4558.200195	330	I	285	317	1
4577-25-8W142-1	2012-03-01 0(	837250.875	1158952	4558.899902	340	I	290	318	1
4577-25-8W143-1	2012-03-08 0(	837252.6875	1159012	4557.600098	340	R	283	314	1
4577-25-8W144-1	2012-03-08 0(	837260.1875	1159077	4556.600098	340	I	276	310	1
4577-25-8W145-1	2012-03-09 0(	837219.625	1159129	4553.11084	330	R	266	294	1
4577-25-8W145-2	2012-03-01 0(	837287.5	1159132	4557.600098	340	I	265	294	1
4577-25-8W146-1	2012-03-02 0(	837253.625	1159187	4555	330	R	270	298	1
4577-25-8W148-1	2012-03-02 0(	837209	1159266	4552.600098	330	I	260	292	1
4577-25-8W148-2	2012-03-01 0(	837263	1159253	4555	330	R	263	295	1
4577-25-8W149-1	2012-03-02 0(	837215.875	1159321	4553.100098	330	R	256	288	1
4577-25-8W149-2	2012-02-27 0(	837277.125	1159312	4555.799805	340	I	255	285	1
4577-25-8W150-1	2012-03-01 0(	837216.5	1159382	4551.700195	340	I	260	289	1
4577-25-8W150-2	2012-02-28 0(	837277.625	1159375	4555.700195	340	R	260	290	1
4577-25-8W151-1	2012-02-29 0(	837224.1875	1159445	4552.799805	340	R	262	294	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8W151-2	2012-02-28 0(	837284.875	1159434	4555.454102	340	I	262	295	1
4577-25-8W152-1	2012-02-29 0(	837256.125	1159497	4554	340	I	266	293	1
4577-25-8W153-1	2012-02-29 0(	837237.625	1159550	4552.700195	340	I	285	315	1
4577-25-8W155-1	2012-03-28 0(	837247.1875	1159632	4550.145996	340	I	290	314	1
4577-25-8W160-1	2012-02-24 0(	837200.3125	1159856	4546	340	I	299	322	1
4577-25-8W161-1	2012-02-27 0(	837240.3125	1159908	4526.299805	340	I	283	304	1
4577-25-8W163-1	2012-03-19 0(	837240	1160020	4498.100098	320	I	265	281	1
4577-25-8W165-1	2012-02-22 0(	837218	1160146	4497.5	320	I	255	268	1
4577-25-8W170-1	2012-02-15 0(	837213.3125	1160369	4520.100098	340	I	295	307	1
4577-25-8W171-1	2012-02-15 0(	837215.5	1160428	4522.100098	340	R	297	317	1
4577-25-8W172-1	2012-02-17 0(	837255.5	1160467	4509.799805	340	I	286	305	1
4577-25-8W173-1	2012-02-16 0(	837241	1160526	4512.5	340	R	282	310	1
4577-25-8W174-1	2012-02-16 0(	837228.1875	1160585	4516.5	360	I	305	316	1
4577-25-8W175-1	2012-02-16 0(	837223.3125	1160646	4516.399902	360	R	292	319	1
4577-25-8W177-1	2012-02-24 0(	837204.1875	1160703	4521.5	360	I	295	308	1
4577-25-8W178-1	2012-02-14 0(	837248.8125	1160764	4527.799805	360	I	305	332	1
4577-25-8W179-2	2012-02-10 0(	837295.3125	1160836	4538.899902	360	I	312	342	1
4577-25-8W180-1	2012-02-15 0(	837226.6875	1160878	4525.299805	370	I	300	329	1
4577-25-8W180-2	2012-02-08 0(	837279.125	1160895	4542	360	R	315	343	1
4577-25-8W181-1	2012-02-14 0(	837215.6875	1160937	4527.799805	370	R	303	331	1
4577-25-8W182-1	2012-02-13 0(	837196.625	1160998	4538.5	370	I	318	342	1
4577-25-8W182-2	2012-02-08 0(	837277.375	1160957	4545.899902	380	I	322	350	1
4577-25-8W183-1	2012-02-13 0(	837261.125	1161013	4546.600098	380	R	322	351	1
4577-25-8W184-1	2012-02-24 0(	837264.5	1161078	4549.799805	380	I	327	355	1
4577-25-8W185-1	2012-02-14 0(	837208	1161121	4542.100098	370	I	322	348	1
4577-25-8W208-1	2012-01-23 0(	837246.5	1162281	4634.899902	450	I	410	435	1
4577-25-8W209-1	2012-01-05 0(	837243.5	1162337	4636.700195	470	R	408	433	1
4577-25-8W210-1	2012-01-30 0(	837233.3125	1162400	4640.799805	460	I	400	430	1
4577-25-8W212-1	2012-01-10 0(	837236.5	1162457	4641	450	R	395	427	1
4577-25-8W212-2	2012-01-25 0(	837297.125	1162456	4649.414063	480	I	400	417	1
4577-25-8W213-1	2012-01-13 0(	837233.875	1162517	4645.770996	450	I	403	425	1
4577-25-8X136-1	2012-03-07 0(	837360.3125	1158671	4548.299805	320	I	267	294	1
4577-25-8X137-1	2012-03-06 0(	837333.875	1158727	4550.700195	320	R	271	300	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8X137-2	2012-03-07 0(	837393.8125	1158720	4552.399902	320	I	285	302	1
4577-25-8X138-1	2012-03-06 0(	837315.3125	1158783	4554.299805	330	I	275	303	1
4577-25-8X139-1	2012-03-06 0(	837330.125	1158844	4559.5	330	R	280	307	1
4577-25-8X139-2	2012-03-12 0(	837377.5	1158807	4558.399902	330	I	278	309	1
4577-25-8X140-1	2012-03-05 0(	837383.1875	1158865	4563.5	330	I	280	291	1
4577-25-8X141-1	2012-03-02 0(	837320.8125	1158904	4562.200195	330	I	285	315	1
4577-25-8X143-1	2012-03-12 0(	837311.625	1159021	4561	340	I	265	293	1
4577-25-8X144-1	2012-03-13 0(	837328.5	1159077	4561.200195	340	R	267	295	1
4577-25-8X146-1	2012-02-29 0(	837309	1159187	4558.100098	340	I	280	295	1
4577-25-8X147-1	2012-02-29 0(	837322.8125	1159240	4558.5	340	I	266	296	1
4577-25-8X148-1	2012-02-27 0(	837335.5	1159297	4558.399902	340	I	256	278	1
4577-25-8X149-1	2012-03-01 0(	837390.375	1159317	4557.5	340	I	256	269	1
4577-25-8X150-1	2012-02-27 0(	837331.375	1159357	4557.5	340	I	255	273	1
4577-25-8X172-1	2012-02-22 0(	837317.125	1160474	4516.799805	340	I	277	290	1
4577-25-8X172-2	2012-02-27 0(	837383.3125	1160487	4524.299805	340	I	290	305	1
4577-25-8X173-1	2012-02-16 0(	837300.875	1160533	4514.600098	340	R	280	292	1
4577-25-8X173-2	2012-02-21 0(	837360.375	1160545	4521.5	340	R	285	303	1
4577-25-8X175-1	2012-02-16 0(	837353	1160603	4527.899902	340	I	295	307	1
4577-25-8X176-1	2012-03-26 0(	837347.375	1160663	4528.586914	380	I	287	315	1
4577-25-8X177-1	2012-02-16 0(	837324.375	1160721	4525.700195	370	I	285	310	1
4577-25-8X177-2	2012-02-10 0(	837380.375	1160742	4537.899902	370	R	300	325	1
4577-25-8X178-1	2012-02-13 0(	837301.625	1160777	4537.399902	360	I	301	321	1
4577-25-8X178-2	2012-02-13 0(	837358.5	1160802	4536.5	370	I	310	335	1
4577-25-8X180-1	2012-02-08 0(	837350.6875	1160858	4539	370	R	312	340	1
4577-25-8X181-1	2012-02-08 0(	837337.3125	1160916	4541.5	370	I	313	342	1
4577-25-8X181-2	2012-02-10 0(	837399.875	1160928	4545.5	370	I	315	332	1
4577-25-8X182-1	2012-02-10 0(	837335.125	1160977	4545.399902	370	R	317	347	1
4577-25-8X183-1	2012-02-10 0(	837317.875	1161033	4552	380	I	328	355	1
4577-25-8X187-1	2011-11-21 0(	837370.375	1161230	4567.686035	390	I	355	372	1
4577-25-8X210-1	2012-01-26 0(	837306.8125	1162362	4644.799805	470	I	400	430	1
4577-25-8X210-2	2012-01-18 0(	837396.8125	1162398	4651.957031	450	I	410	425	0
4577-25-8X211-1	2012-01-13 0(	837332.375	1162416	4656.905762	480	R	407	430	1
4577-25-8X212-1	2012-01-31 0(	837377.6875	1162451	4655.952148	480	I	415	430	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8X213-1	2012-01-31 0(	837386.8125	1162542	4659.61377	480	I	419	435	1
4577-25-8Y139-1	2012-03-02 0(	837432.1875	1158831	4562.299805	330	R	276	293	1
4577-25-8Y173-1	2012-02-14 0(	837414.5	1160520	4528.899902	340	I	290	300	1
4577-25-8Y175-1	2012-02-22 0(	837482.125	1160642	4529.299805	350	I	300	320	1
4577-25-8Y175-2	2012-03-26 0(	837424.3125	1160629	4529.198242	360	I	287	319	1
4577-25-8Y176-1	2012-02-09 0(	837401.375	1160686	4536.100098	370	R	294	320	1
4577-25-8Y176-2	2012-02-09 0(	837461.125	1160696	4535.200195	370	R	309	333	1
4577-25-8Y178-1	2012-02-14 0(	837438.625	1160753	4544.700195	360	I	319	345	1
4577-25-8Y178-2	2012-02-08 0(	837497.625	1160764	4539.5	360	R	315	341	1
4577-25-8Y179-1	2012-02-08 0(	837419.5	1160810	4544	370	R	317	345	1
4577-25-8Y179-2	2012-02-13 0(	837486.6875	1160819	4543.399902	370	I	319	344	1
4577-25-8Y180-1	2012-02-09 0(	837410.875	1160870	4544.5	370	I	317	345	1
4577-25-8Y180-2	2012-02-08 0(	837468	1160876	4548.5	370	R	320	350	1
4577-25-8Y181-1	2012-02-10 0(	837463.6875	1160935	4551.100098	370	R	323	353	1
4577-25-8Y182-1	2011-11-14 0(	837495.125	1160980	4555.847168	370	I	330	356	1
4577-25-8Y186-1	2011-11-18 0(	837439.8125	1161167	4560.274902	370	I	335	364	1
4577-25-8Y187-1	2011-11-17 0(	837426.875	1161227	4565.299805	370	R	345	368	1
4577-25-8Y187-2	2011-11-28 0(	837486.625	1161221	4558.23291	370	I	335	361	1
4577-25-8Y188-1	2011-11-16 0(	837424.625	1161286	4567.922852	380	I	354	375	1
4577-25-8Y188-2	2011-12-05 0(	837486.875	1161278	4560.716797	380	R	345	365	1
4577-25-8Y189-1	2011-11-28 0(	837467.6875	1161334	4563.548828	390	I	352	372	1
4577-25-8Y195-1	2011-11-22 0(	837467.625	1161643	4587.23584	400	I	348	372	1
4577-25-8Y197-1	2011-12-19 0(	837475.8125	1161732	4590.549805	420	I	360	376	1
4577-25-8Y202-1	2012-02-07 0(	837430.8125	1161999	4604.98584	430	R	367	398	1
4577-25-8Y203-1	2011-12-20 0(	837467.375	1162033	4609.721191	440	I	372	404	1
4577-25-8Y204-1	2011-12-15 0(	837411.375	1162059	4610.528809	440	I	386	404	1
4577-25-8Y210-1	2012-01-31 0(	837473.5	1162382	4636.701172	470	I	393	405	1
4577-25-8Y211-1	2012-01-04 0(	837469.375	1162425	4636.979004	470	I	393	410	1
4577-25-8Y212-1	2012-01-04 0(	837475.125	1162468	4640.10498	470	I	399	415	1
4577-25-8Y212-2	2012-01-20 0(	837422.3125	1162494	4640.564941	480	R	410	427	1
4577-25-8Y213-1	2012-01-23 0(	837443.875	1162550	4653.455078	480	I	413	428	1
4577-25-8Z139-1	2012-03-12 0(	837503.5	1158819	4560.299805	330	I	277	290	1
4577-25-8Z177-1	2012-02-10 0(	837518.3125	1160709	4533	350	I	312	332	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-25-8Z178-1	2012-02-16 0(	837557.6875	1160762	4535.5	350	I	312	335	1
4577-25-8Z181-1	2012-02-13 0(	837536.125	1160938	4552.399902	370	I	330	355	1
4577-25-8Z182-1	2011-11-18 0(	837582	1160987	4553.731934	370	I	326	350	1
4577-25-8Z183-1	2011-11-16 0(	837550.3125	1161034	4559.450195	370	I	331	350	1
4577-25-8Z184-1	2011-11-30 0(	837501.8125	1161098	4563.299805	370	I	333	363	1
4577-25-8Z184-2	2011-12-01 0(	837565.6875	1161089	4563.173828	380	R	332	357	1
4577-25-8Z185-1	2011-12-01 0(	837562.8125	1161148	4564.165039	380	I	338	365	1
4577-25-8Z186-1	2011-11-28 0(	837500	1161156	4556.757813	370	R	328	360	1
4577-25-8Z187-1	2011-11-17 0(	837546.125	1161206	4566.050781	380	R	335	367	1
4577-25-8Z188-1	2011-11-18 0(	837544.875	1161266	4567.259766	380	I	350	374	1
4577-25-8Z189-1	2011-11-29 0(	837523.375	1161326	4567.998047	400	R	362	378	1
4577-25-8Z189-2	2011-11-29 0(	837587.125	1161326	4572.417969	400	I	363	384	1
4577-25-8Z194-1	2011-11-30 0(	837586.125	1161554	4583.474121	410	I	346	363	1
4577-25-8Z195-1	2011-11-30 0(	837558.625	1161647	4587.305176	420	I	353	373	1
4577-25-8Z196-1	2011-11-28 0(	837507.8125	1161682	4589.874023	420	R	357	378	1
4577-25-8Z197-1	2011-12-19 0(	837530.5	1161737	4595.616211	420	I	366	384	1
4577-25-8Z200-2	2011-01-16 0(	837578.125	1161874	4602.317871	420	I	357	388	1
4577-25-8Z202-1	2011-12-20 0(	837499.8125	1161986	4606.461914	430	I	365	400	1
4577-25-8Z202-2	2011-11-14 0(	837581.5	1161973	4605.324219	430	I	367	395	1
4577-25-8Z203-1	2011-12-19 0(	837545.8125	1162024	4610.321777	430	R	372	400	1
4577-25-8Z203-2	2012-01-13 0(	837598.8125	1162050	4608.673828	440	R	369	399	1
4577-25-8Z204-1	2011-12-20 0(	837512.6875	1162075	4616.746094	440	I	382	413	1
4577-25-8Z204-2	2011-12-19 0(	837567.1875	1162095	4613.451172	440	I	372	388	1
4577-25-8Z210-1	2011-12-20 0(	837561.6875	1162353	4626.439941	460	I	382	401	1
4577-25-8Z211-1	2012-02-06 0(	837521.3125	1162417	4633.375977	480	R	390	408	1
4577-28-IRPT-21D	2013-03-14 0(	822418.501	1161689.7	4647.185	680	DM	626	654	1
4577-28-IRPT-21S	2013-03-15 0(	822420.581	1161666	4647.745	420	SM	365	410	1
4577-33-IRPT-25D	2013-03-05 0(	822096.03	1155409.2	4699.332	690	DM	598	648	1
4577-33-IRPT-25S	2013-03-06 0(	822094.751	1155389.5	4699.458	460	SM	405	450	1
4577-35-10282	2013-01-22 0(	833070.152	1153961.7	4676.702	460	I	405	426	1
4577-35-10283	2013-01-21 0(	833010.637	1153966.3	4666.844	460	I	395	415	1
4577-35-10285	2013-01-22 0(	833113.424	1154014.4	4670.295	460	R	398	422	1
4577-35-10286	2013-01-22 0(	833075.167	1154060.5	4669.245	460	I	397	420	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10287	2013-01-21 0(	832995.294	1154063	4659.166	460	I	390	410	1
4577-35-10288	2013-01-22 0(	833104.902	1154106.8	4650.197	450	R	393	419	1
4577-35-10289	2013-01-21 0(	833037.155	1154101.7	4667.116	460	R	412	426	1
4577-35-10290	2013-01-23 0(	832994.339	1154149.5	4662.515	460	I	407	424	1
4577-35-10291	2013-01-22 0(	833021.445	1154209.8	4664.654	460	R	407	427	1
4577-35-10292	2013-01-23 0(	832974.907	1154230.3	4661.07	460	I	403	422	1
4577-35-10293	2013-01-21 0(	833017.187	1154278.9	4663.239	460	I	405	425	1
4577-35-10294	2012-07-25 0(	833109.125	1152715	4691.953125	540	I	453	471	1
4577-35-10295	2012-12-07 0(	833271.995	1152994.3	4695.394	500	R	446	471	1
4577-35-10299	2012-12-06 0(	833162.731	1153033.9	4699.978	510	I	464	480	1
4577-35-10303	2012-08-06 0(	833271.375	1152609	4717.749023	530	I	479	498	1
4577-35-10305	2012-08-08 0(	833241.375	1152672	4705.323242	530	R	467	485	1
4577-35-10308	2012-09-17 0(	833227.875	1152727	4701.535156	520	I	463	480	1
4577-35-10309	2012-08-08 0(	833293.8125	1152700	4711.435059	530	I	473	491	1
4577-35-10310	2012-08-23 0(	833029.875	1152771	4687.296875	520	I	450	469	1
4577-35-10311	2012-08-23 0(	833090.1875	1152775	4677.907227	520	R	439	459	1
4577-35-10312	2012-09-17 0(	833148.1875	1152785	4692.558105	520	I	455	474	1
4577-35-10313	2012-09-17 0(	833186.125	1152796	4696.241211	510	R	454	473	1
4577-35-10314	2012-09-18 0(	833275.875	1152756	4706.055176	520	R	463	483	1
4577-35-10315	2012-08-27 0(	833324.375	1152754	4713.176758	530	I	468	487	1
4577-35-10316	2012-08-23 0(	833028.125	1152833	4671.604004	510	R	434	452	1
4577-35-10317	2012-08-17 0(	833086.6875	1152833	4686.108887	500	R	448	466	1
4577-35-10318	2012-08-24 0(	833139	1152849	4691.012207	500	R	457	470	1
4577-35-10319	2012-08-23 0(	833203.3125	1152852	4698.095215	510	I	453	473	1
4577-35-10320	2012-09-19 0(	833264.5	1152822	4710.961914	520	I	467	487	1
4577-35-10321	2012-08-28 0(	833320.3125	1152818	4719.688965	530	R	476	496	1
4577-35-10322	2012-09-25 0(	833372.1875	1152824	4714.937988	530	I	467	487	1
4577-35-10323	2012-08-20 0(	833020.125	1152887	4671.856934	490	I	433	446	1
4577-35-10324	2012-08-23 0(	833089.875	1152891	4685.970215	500	R	447	465	1
4577-35-10325	2012-08-13 0(	833154.875	1152904	4692.212891	510	I	451	471	1
4577-35-10326	2012-08-23 0(	833217.875	1152915	4703.172852	510	R	459	481	1
4577-35-10327-2	2012-12-14 0(	833263.328	1152877.1	4706.77	510	R	462	483	1
4577-35-10328	2012-09-13 0(	833320	1152879	4708.443848	520	I	459	481	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10329	2012-10-02 0(	833367.375	1152880	4709.13916	520	R	462	486	1
4577-35-10330	2012-08-21 0(	833445	1152885	4710.709961	520	I	463	486	1
4577-35-10331	2012-08-22 0(	833100	1152955	4687.672852	500	I	449	463	1
4577-35-10332	2012-08-22 0(	833211.625	1152974	4703.581055	510	I	462	480	1
4577-35-10333-2	2012-12-10 0(	833271.015	1152938.9	4701.65	500	I	452	474	1
4577-35-10334	2012-09-11 0(	833330.875	1152937	4701.61084	510	R	452	477	1
4577-35-10335-2	2012-12-13 0(	833404.604	1152946.2	4707.242	510	I	459	483	1
4577-35-10336	2012-08-21 0(	833454.125	1152947	4708.330078	520	R	464	485	1
4577-35-10337	2012-08-28 0(	833513.125	1152944	4724.716797	520	I	479	500	1
4577-35-10338	2012-08-07 0(	833334.5	1152997	4697.415039	510	I	455	474	1
4577-35-10339	2012-09-12 0(	833409.125	1153005	4703.335938	510	R	459	477	1
4577-35-10340	2012-08-22 0(	833455	1153002	4708.230957	520	I	459	483	1
4577-35-10341	2012-09-20 0(	833520.125	1153001	4715.61377	520	R	467	489	1
4577-35-10342	2012-09-28 0(	833562.5	1153037	4714.067871	520	I	468	485	1
4577-35-10343	2013-01-15 0(	833151.551	1153974	4660.885	480	I	393	413	1
4577-35-10345	2012-09-14 0(	833286.8125	1153045	4689.330078	500	I	454	467	1
4577-35-10346	2012-09-13 0(	833344.875	1153057	4692.97998	500	R	456	474	1
4577-35-10347	2012-08-22 0(	833406.8125	1153061	4699.190918	510	I	452	479	1
4577-35-10348	2012-08-28 0(	833469.125	1153065	4704.589844	520	R	455	483	1
4577-35-10349	2012-08-23 0(	833527.963	1153066.4	4708.785	520	I	459	478	1
4577-35-10352	2012-09-11 0(	833342.875	1153118	4693.991211	500	I	452	476	1
4577-35-10353	2012-09-12 0(	833399.6875	1153121	4698.778809	510	R	455	479	1
4577-35-10354	2012-08-23 0(	833462.6875	1153126	4704.154785	510	I	459	484	1
4577-35-10355	2012-08-23 0(	833517.375	1153124	4707.687012	520	R	469	487	1
4577-35-10356	2012-08-23 0(	833557.5	1153128	4712.066895	520	I	465	485	1
4577-35-10359	2012-08-24 0(	833408.375	1153186	4701.295898	510	I	459	482	1
4577-35-10360	2012-08-23 0(	833472.1875	1153178	4707.901855	520	R	463	484	1
4577-35-10361-2	2012-12-06 0(	833526.522	1153193.4	4713.071	510	I	471	493	1
4577-35-10363-2	2012-12-06 0(	833395.922	1153248.4	4700.777	510	R	457	482	1
4577-35-10364	2012-08-29 0(	833458.625	1153238	4707.242188	520	I	463	484	1
4577-35-10365	2012-12-10 0(	833520.794	1153253.5	4714.02	520	R	469	489	1
4577-35-10367	2012-09-14 0(	833412.375	1153323	4708.788086	520	I	470	489	1
4577-35-10368	2012-08-29 0(	833466.125	1153302	4709.708984	520	R	466	486	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10369	2012-08-28 0(	833529.875	1153299	4714.845215	520	I	471	490	1
4577-35-10370	2012-09-19 0(	832964.5	1153183	4684.495117	500	R	452	471	1
4577-35-10371	2012-08-28 0(	833501	1153354	4718.305176	520	I	478	495	1
4577-35-10372	2012-08-29 0(	833390.5	1153388	4712.559082	520	R	477	491	1
4577-35-10373	2012-08-21 0(	833450.625	1153416	4715.493164	520	I	479	493	1
4577-35-10376	2012-08-10 0(	833700.375	1152685	4696.083008	510	I	471	482	1
4577-35-10377	2012-08-14 0(	833687.6875	1152744	4696.986816	510	R	467	483	1
4577-35-10378	2012-08-24 0(	833652.6875	1152794	4701.309082	500	I	469	485	1
4577-35-10379	2012-08-23 0(	833717.8125	1152796	4694.001953	500	I	466	479	1
4577-35-10388	2012-08-21 0(	832833.125	1153017	4670.47998	490	I	453	467	1
4577-35-10389	2012-08-15 0(	832777.625	1153082	4667.924805	490	I	449	463	1
4577-35-10390	2012-08-14 0(	832836	1153078	4673.125	500	R	452	469	1
4577-35-10391	2012-08-14 0(	832895.875	1153063	4681.758789	500	I	453	470	1
4577-35-10393	2012-08-15 0(	832729.875	1153156	4662.332031	490	I	439	456	1
4577-35-10394	2012-08-14 0(	832787.625	1153141	4667.587891	490	I	436	460	1
4577-35-10395	2012-08-22 0(	832849.125	1153139	4675.617188	500	I	442	463	1
4577-35-10396	2012-08-08 0(	832907.125	1153124	4682.367188	500	R	447	469	1
4577-35-10397	2012-08-08 0(	832969	1153124	4686.130859	500	I	456	475	1
4577-35-10398	2012-09-11 0(	832675.8125	1153209	4655.40918	480	I	432	448	1
4577-35-10399	2012-08-16 0(	832739.375	1153214	4661.646973	490	R	438	456	1
4577-35-10400	2012-08-16 0(	832798.625	1153200	4667.323242	490	I	435	461	1
4577-35-10401	2012-08-17 0(	832860.6875	1153197	4672.194824	500	R	439	457	1
4577-35-10402	2012-08-20 0(	832920.125	1153172	4682.553223	500	I	452	467	1
4577-35-10403-2	2012-12-12 0(	832730.019	1153292.6	4624.221	460	I	399	417	1
4577-35-10404	2012-08-22 0(	832806.875	1153264	4664.001953	490	R	439	455	1
4577-35-10405	2012-10-02 0(	832883.1875	1153240	4670.684082	490	I	436	453	1
4577-35-10406-2	2013-01-07 0(	832929.091	1153241.2	4674.583	470	I	439	458	1
4577-35-10407	2012-08-17 0(	832996.375	1153241	4674.134766	500	I	438	454	1
4577-35-10408	2012-09-26 0(	832808.125	1153331	4628.371094	480	I	399	413	1
4577-35-10409	2012-09-26 0(	832962.625	1153305	4648.916992	490	I	415	429	1
4577-35-10412	2012-08-20 0(	833666.125	1153661	4703.618164	510	R	421	439	1
4577-35-10413	2012-08-17 0(	833597.375	1153693	4695.630859	500	R	417	443	1
4577-35-10414	2012-08-14 0(	833633.6875	1153780	4686.241211	490	R	406	434	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10415	2012-08-13 0(	833552.6875	1153805	4685.854004	490	R	424	437	1
4577-35-10419	2012-08-14 0(	833453.375	1153990	4669.12793	480	R	403	426	1
4577-35-10420	2012-08-16 0(	833189.375	1154011	4652.471191	470	R	397	420	1
4577-35-10421	2012-08-13 0(	833404.875	1154027	4665.472168	480	I	399	425	1
4577-35-10422	2012-08-14 0(	833500.375	1154022	4682.097168	490	I	411	439	1
4577-35-10423	2012-08-14 0(	833454.875	1154063	4682.291016	490	R	411	439	1
4577-35-10424	2012-08-22 0(	833549	1154051	4672.789063	490	R	385	411	1
4577-35-10425	2012-08-16 0(	833320.8125	1154090	4663.347168	480	I	404	423	1
4577-35-10426	2012-08-15 0(	833411.3125	1154097	4682.556152	490	I	416	423	1
4577-35-10427	2012-08-21 0(	833507.125	1154098	4667.812012	490	I	397	424	1
4577-35-10428	2012-08-22 0(	833601.3125	1154085	4667.294922	480	I	377	402	1
4577-35-10429	2012-09-11 0(	833195.8125	1154111	4645.532227	470	R	387	410	1
4577-35-10430	2012-08-28 0(	833267.8125	1154111	4653.862793	480	I	393	415	1
4577-35-10431	2012-08-15 0(	833365.375	1154136	4678.555176	490	R	403	433	1
4577-35-10432	2012-08-22 0(	833456.6875	1154130	4669.543945	480	R	396	419	1
4577-35-10433	2012-08-17 0(	833558.8125	1154130	4662.170898	470	R	374	399	1
4577-35-10434	2012-08-16 0(	833646.8125	1154124	4669.091797	470	I	378	403	1
4577-35-10435	2012-09-11 0(	833116.625	1154155	4644.631836	470	I	387	413	1
4577-35-10436	2012-08-07 0(	833224.3125	1154153	4647.97998	470	I	385	408	1
4577-35-10437	2012-08-16 0(	833303.375	1154165	4663.008789	490	I	396	416	1
4577-35-10438	2012-08-22 0(	833406.875	1154170	4665.776855	480	I	390	417	1
4577-35-10439	2012-08-17 0(	833511.375	1154165	4658.762207	470	I	385	405	1
4577-35-10440	2012-08-15 0(	833603.875	1154168	4663.634766	460	I	374	399	1
4577-35-10441	2012-08-21 0(	833691	1154165	4671.253906	480	I	379	403	1
4577-35-10442	2012-08-08 0(	833186.625	1154203	4641.682129	460	R	379	403	1
4577-35-10443	2012-08-14 0(	833260.625	1154199	4650.071777	480	I	383	406	1
4577-35-10444	2012-08-23 0(	833367.3125	1154194	4666.081055	490	R	390	416	1
4577-35-10445	2012-08-20 0(	833458	1154200	4653.881836	470	R	377	404	1
4577-35-10446	2012-08-21 0(	833559.3125	1154208	4658.262207	460	R	369	401	1
4577-35-10447	2012-08-16 0(	833648.625	1154209	4666.60791	460	R	373	399	1
4577-35-10448	2012-09-24 0(	833145.375	1154244	4616.833008	460	I	358	378	1
4577-35-10449	2012-08-13 0(	833217.6875	1154245	4642.931152	460	I	379	402	1
4577-35-10450	2012-09-11 0(	833309.5	1154235	4657.99707	480	I	389	406	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10451	2012-08-21 0(	833402.125	1154232	4654.86084	470	I	378	405	1
4577-35-10452	2012-08-23 0(	833513.3125	1154245	4652.787109	450	I	362	395	1
4577-35-10453	2012-08-15 0(	833598.1875	1154243	4660.978027	460	I	371	397	1
4577-35-10454	2012-08-23 0(	833693.8125	1154246	4676.712891	480	I	385	409	1
4577-35-10455	2012-09-11 0(	833375.125	1152374	4713.376953	530	I	486	502	1
4577-35-10456	2012-09-04 0(	833472.125	1152378	4704.381836	520	I	479	495	1
4577-35-10457	2012-09-11 0(	833537.125	1152375	4700.063965	520	I	468	486	1
4577-35-10458	2012-09-12 0(	833440.125	1152432	4710.86377	530	R	478	502	1
4577-35-10459	2012-09-10 0(	833505.125	1152425	4701.722168	520	R	471	490	1
4577-35-10460	2012-07-26 0(	833377.125	1152448	4721.35791	520	I	488	513	1
4577-35-10461	2012-09-10 0(	833473.375	1152472	4702.911133	530	I	470	490	1
4577-35-10462	2012-09-11 0(	833540.1875	1152478	4694.541016	520	I	463	480	1
4577-35-10470	2012-09-11 0(	833612.8125	1153633	4702.105957	490	I	422	443	1
4577-35-10471	2012-09-10 0(	833683.6875	1153602	4714.369141	490	I	433	451	1
4577-35-10472	2012-09-10 0(	833533.1875	1153686	4687.463867	480	I	411	436	1
4577-35-10473	2012-09-10 0(	833650.8125	1153739	4689.97998	490	I	408	434	1
4577-35-10474	2012-09-07 0(	833712.1875	1153704	4704.037109	490	I	418	429	1
4577-35-10475	2012-09-10 0(	833517.625	1153767	4687.14209	480	I	426	439	1
4577-35-10476	2012-09-07 0(	833585.375	1153748	4691.366211	480	I	413	442	1
4577-35-10477	2012-09-07 0(	833524.1875	1153859	4676.257813	490	I	413	426	1
4577-35-10478	2012-09-07 0(	833607.125	1153832	4681.029785	480	I	402	430	1
4577-35-10479	2012-09-10 0(	833682.5	1153812	4692.644043	470	I	412	433	1
4577-35-10480	2012-09-07 0(	833425.875	1153909	4668.224121	460	I	403	424	1
4577-35-10481	2012-09-07 0(	833503.625	1153954	4671.518066	460	I	405	424	1
4577-35-10482	2012-09-10 0(	833576.375	1154000	4677.63623	460	I	390	414	
4577-35-10482-2	2013-02-01 0(	833582.72	1153998.9	4677.749	440	I	390	414	1
4577-35-10484	2012-09-14 0(	833164.375	1152974	4702.12207	510	R	462	482	1
4577-35-10485	2013-01-16 0(	833239.4	1153976	4655.193	460	I	395	419	1
4577-35-10486	2013-01-08 0(	833324.3	1154009	4658.285	460	I	397	418	1
4577-35-10487	2013-01-15 0(	833146.722	1154056.9	4650.826	460	I	383	415	1
4577-35-10488	2013-01-15 0(	833243.942	1154076.6	4651.092	450	I	392	413	1
4577-35-10489	2013-01-10 0(	833361.6	1154055	4664.489	460	R	397	421	1
4577-35-10490	2013-01-10 0(	833044.138	1154147	4665.769	460	I	407	431	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10491	2013-01-16 0(	833105.145	1154201.1	4643.762	450	R	382	411	1
4577-35-10492	2013-01-17 0(	833066.188	1154249.5	4647.544	450	I	387	412	1
4577-35-10502	2012-10-04 0(	832001.1	1153094	4633.762	480	I			
4577-35-10507	2012-10-04 0(	832022.2	1153209	4622.529	460	I			
4577-35-10513	2013-04-05 0(	832086.092	1153411.9	4617.473	480	R	390	420	1
4577-35-10515	2012-09-27 0(	831679.1	1153247	4620.754	480	R			
4577-35-10517	2013-02-27 0(	831659.171	1153300	4614.09	480	I			
4577-35-10518	2013-02-01 0(	831563.9	1153313	4614.789	480	I			
4577-35-10519	2012-09-28 0(	831657.8	1153347	4607.229	460	R			
4577-35-10526	2012-09-28 0(	832483.375	1153715	4666.783203	480	R	407	434	1
4577-35-10529	2012-09-12 0(	832763.3125	1153897	4664.166016	500	I	413	425	1
4577-35-10532	2012-09-13 0(	832797.875	1153922	4652.952148	480	I	400	410	1
4577-35-10533	2012-09-06 0(	832753.1875	1153969	4657.366211	480	R	406	418	1
4577-35-10536	2013-01-17 0(	833066.674	1154018.5	4669.408	500	R	399	421	1
4577-35-10538	2012-09-04 0(	832869.625	1154013	4657.832031	480	I	412	424	1
4577-35-10539	2012-08-31 0(	832794.5	1154021	4639.970215	480	R	394	409	1
4577-35-10540	2012-09-13 0(	832737.6875	1154055	4650.382813	480	I	400	415	1
4577-35-10541	2012-09-05 0(	832830.125	1154065	4649.193848	480	R	401	419	1
4577-35-10543	2012-08-29 0(	832866.3125	1154103	4649.420898	460	I	396	414	1
4577-35-10544	2012-08-30 0(	832787.125	1154098	4632.719238	480	I	375	395	1
4577-35-10545	2012-09-14 0(	832726.375	1154134	4642.540039	480	I	382	407	1
4577-35-10546	2012-08-29 0(	832823.125	1154137	4643.297852	480	R	388	408	1
4577-35-10547	2012-08-28 0(	832862.125	1154194	4643.03418	480	I	385	406	1
4577-35-10548	2012-08-29 0(	832782.125	1154187	4631.669922	460	I	378	404	1
4577-35-10549	2012-08-30 0(	832740	1154222	4622.701172	460	R	362	385	1
4577-35-10550	2012-08-29 0(	832819.875	1154230	4637.536133	460	R	385	405	1
4577-35-10552	2012-08-29 0(	832776.3125	1154275	4632.920898	460	I	380	402	1
4577-35-10553	2012-08-30 0(	832723.3125	1154303	4616.25293	460	R	355	375	1
4577-35-10554	2012-08-27 0(	832823	1154307	4636.873047	460	R	386	404	1
4577-35-10555	2012-08-28 0(	832778.8125	1154348	4630.326172	460	I	374	395	1
4577-35-10557	2013-01-18 0(	832718.156	1154379.6	4609.971	460	I	352	370	1
4577-35-10558	2012-08-31 0(	832412	1154322	4642.003906	460	I	370	400	1
4577-35-10562	2012-08-30 0(	832094.3125	1154187	4644.373047	460	R	391	413	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10565	2012-09-06 0(	832533.625	1154443	4636.771973	460	I	364	380	1
4577-35-10567	2012-09-06 0(	832578.6875	1154407	4641.054199	460	I	366	388	1
4577-35-10569	2012-09-07 0(	832539	1154365	4643.586914	460	R	370	390	1
4577-35-10571	2012-09-13 0(	832495.125	1154316	4646.515137	460	I	374	404	1
4577-35-10572	2012-09-14 0(	832595.5	1154333	4643.983887	460	I	370	396	1
4577-35-10573	2012-09-14 0(	832680.1875	1154346	4627.789063	460	I	368	385	1
4577-35-10574	2012-09-14 0(	832639.3125	1154300	4635.771973	460	R	371	390	1
4577-35-10575	2012-09-26 0(	832544.3125	1154300	4647.309082	480	R	376	405	1
4577-35-10576	2012-09-24 0(	832454.625	1154280	4648.077148	460	R	378	408	1
4577-35-10577	2012-09-13 0(	832507.3125	1154246	4659.003906	480	I	388	418	1
4577-35-10578	2012-09-14 0(	832604.375	1154256	4651.063965	480	I	382	408	1
4577-35-10579	2012-09-12 0(	832689.125	1154264	4634.700195	460	I	372	395	1
4577-35-10580	2012-09-14 0(	832647.125	1154226	4644.904785	480	R	382	404	1
4577-35-10581	2012-09-13 0(	832556.125	1154215	4666.90918	480	R	399	426	1
4577-35-10582	2013-01-18 0(	832483.035	1154198.9	4665.619	480	I	393	423	1
4577-35-10583	2013-01-18 0(	832377.081	1154158	4661.52	460	I	401	421	1
4577-35-10584	2012-09-25 0(	832312.375	1154143	4656.796875	480	I	396	420	1
4577-35-10585	2012-08-30 0(	832357.6875	1154130	4656.38623	480	R	395	417	1
4577-35-10586	2013-01-18 0(	832420.895	1154134.6	4663.839	480	I	406	421	1
4577-35-10587	2012-09-26 0(	832550.5	1154159	4675.919922	480	I	408	434	1
4577-35-10588	2012-09-13 0(	832605.875	1154179	4663.336914	480	I	400	428	1
4577-35-10589	2012-09-14 0(	832689.674	1154188	4642.281	480	I	380	405	1
4577-35-10590	2013-01-17 0(	832578.315	1154128.3	4673.21	500	R	412	437	1
4577-35-10592	2012-08-30 0(	832410	1154097	4656.478027	480	I	396	416	1
4577-35-10593	2012-09-06 0(	832324.375	1154083	4649.694824	460	I	390	418	1
4577-35-10594	2012-09-17 0(	832374.5	1154047	4650.37793	460	R	390	415	1
4577-35-10597	2012-09-10 0(	832619.8125	1154091	4670.650879	500	I	412	435	1
4577-35-10598	2013-01-17 0(	832695.64	1154102.6	4649.067	480	I	394	414	1
4577-35-10599	2012-09-17 0(	832661.625	1154048	4667.214844	480	I	412	432	1
4577-35-10600	2013-01-18 0(	832561.964	1154016	4668.872	500	I	405	429	1
4577-35-10603	2012-09-17 0(	832333.6875	1154001	4640.589844	460	I	383	413	1
4577-35-10604	2012-09-12 0(	832379.375	1153971	4646.12793	460	I	386	411	1
4577-35-10606	2012-09-10 0(	832553.375	1153988	4667.654785	480	R	405	430	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10608	2012-09-17 0(	832701.875	1154004	4665.836914	480	R	417	429	1
4577-35-10609	2012-09-25 0(	832657.1875	1153953	4675.460938	500	I	421	442	1
4577-35-10610	2013-01-17 0(	832596.768	1153948.4	4670.6	480	I	412	437	1
4577-35-10613	2012-09-21 0(	832352	1153921	4646.358887	460	I	393	405	1
4577-35-10617	2012-09-27 0(	832625.125	1153898	4673.371094	500	R	420	440	1
4577-35-10619	2012-09-07 0(	832686.875	1153867	4679.312012	500	I	428	448	1
4577-35-10620	2013-01-18 0(	832594.528	1153856.9	4672.418	500	I	420	440	1
4577-35-10627	2013-01-21 0(	832635.345	1153819.5	4676.722	500	R	425	443	1
4577-35-10629	2013-01-16 0(	832690.566	1153777.7	4685.767	520	I	440	455	1
4577-35-10630	2012-09-10 0(	832609.6875	1153774	4678.884766	500	I	430	445	1
4577-35-10631	2013-01-17 0(	832527.602	1153760.2	4671.768	480	I	409	434	1
4577-35-10636	2012-10-01 0(	832533.8125	1153682	4670.49707	480	I	409	434	1
4577-35-10637	2013-01-17 0(	832274.59	1154331.2	4649.628	460	I	388	412	1
4577-35-10638	2012-09-27 0(	832191.8125	1154300	4651.516113	460	I	405	420	1
4577-35-10639	2012-09-20 0(	831841.5	1154333	4623.819824	460	I	355	365	1
4577-35-10640	2012-09-19 0(	831811.125	1154300	4626.644043	460	I	362	388	1
4577-35-10641	2012-09-21 0(	831788.3	1154359	4618.318	460	R	350	365	1
4577-35-10642	2012-09-12 0(	831734.125	1154381	4614.211914	500	I	348	358	1
4577-35-10643	2012-09-21 0(	831747.625	1154314	4621.708008	460	I	356	366	1
4577-35-10644	2012-09-18 0(	831673.8125	1154331	4614.902832	460	I	353	385	1
4577-35-10645	2012-09-19 0(	831599.8125	1154345	4607.479004	440	I	348	380	1
4577-35-10646	2012-09-19 0(	831518.375	1154381	4600.507813	440	I	370	384	1
4577-35-10647	2012-09-20 0(	831453.375	1154383	4588.087891	440	I	353	372	1
4577-35-10648	2012-09-25 0(	831364.8125	1154377	4570.035156	420	I	345	370	1
4577-35-10649	2012-09-19 0(	831411.5	1154339	4577.165039	420	R	346	375	1
4577-35-10650	2012-09-20 0(	831481.5	1154326	4592.809082	440	R	360	380	1
4577-35-10652	2012-09-12 0(	831626.125	1154293	4611.270996	460	R	350	383	1
4577-35-10653	2012-09-19 0(	831700.125	1154277	4619.681152	460	R	358	389	1
4577-35-10654	2012-09-13 0(	831770.125	1154258	4625.398926	460	R	360	390	1
4577-35-10655	2012-09-18 0(	831856.625	1154270	4631.180176	460	R	364	390	1
4577-35-10656	2012-09-18 0(	832242.5	1154288	4655.59082	460	R	398	428	1
4577-35-10657	2012-09-24 0(	832278.375	1154253	4658.309082	460	I	406	422	1
4577-35-10658	2012-09-10 0(	832210.375	1154238	4654.71582	460	I	402	429	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10659	2012-09-11 0(	832130.625	1154231	4645.460938	460	I	390	410	1
4577-35-10661	2012-09-19 0(	831909.875	1154242	4634.274902	460	I	365	392	1
4577-35-10662	2012-09-18 0(	831818.3125	1154221	4630.11084	460	I	367	394	1
4577-35-10663	2012-09-12 0(	831722.875	1154221	4622.240234	460	I	355	388	1
4577-35-10664	2012-09-12 0(	831574.625	1154263	4609.054199	460	I	352	384	1
4577-35-10665	2012-09-20 0(	831509.875	1154275	4597.704102	440	I	350	382	1
4577-35-10666	2012-09-19 0(	831436	1154285	4581.720215	440	I	352	382	1
4577-35-10667	2012-09-26 0(	831362.3125	1154302	4571.425781	420	I	346	368	1
4577-35-10668	2012-09-18 0(	831389.5	1154250	4576.222168	423	R	355	376	1
4577-35-10669	2012-09-27 0(	831460.125	1154230	4586.097168	440	R	355	385	1
4577-35-10670	2012-09-21 0(	831533.375	1154222	4601.443848	440	R	355	380	1
4577-35-10671	2012-09-14 0(	831603	1154209	4612.650879	460	R	355	385	1
4577-35-10672	2012-09-12 0(	831673.875	1154185	4618.23291	460	R	353	371	1
4577-35-10673	2012-09-19 0(	831773.3125	1154196	4626.724121	460	R	367	392	1
4577-35-10674	2012-09-27 0(	831865.3125	1154181	4633.475098	460	R	370	397	1
4577-35-10676	2012-09-11 0(	832178.3125	1154191	4650.861816	460	R	395	420	1
4577-35-10677	2013-01-18 0(	832257.015	1154212.2	4657.64	460	R	406	432	1
4577-35-10678	2012-09-19 0(	832224.625	1154135	4654.542969	460	I	398	418	1
4577-35-10679	2012-09-21 0(	832137.8125	1154128	4651.34082	460	I	398	413	1
4577-35-10681-2	2013-04-05 0(	831901	1154125	4640.4	420	I	375	402	1
4577-35-10682	2012-09-27 0(	831824.875	1154164	4631.013184	460	I	366	395	1
4577-35-10683	2013-01-17 0(	831732.669	1154151.1	4623.882	460	I	358	388	1
4577-35-10684	2012-09-28 0(	831626.375	1154156	4615.096191	460	I	354	387	1
4577-35-10685	2012-09-19 0(	831558.8125	1154166	4604.262207	440	I	371	387	1
4577-35-10686	2012-09-19 0(	831487.375	1154180	4590.762207	440	I	365	380	1
4577-35-10687	2012-09-25 0(	831413.125	1154195	4580.411133	420	I	362	380	1
4577-35-10689	2012-09-26 0(	831665	1154105	4618.668945	460	R	348	368	1
4577-35-10690	2013-01-24 0(	831771.806	1154113.5	4627.417	460	R	353	373	1
4577-35-10691	2013-01-25 0(	831854.21	1154100.5	4634.263	460	R	370	397	1
4577-35-10692	2013-01-23 0(	831940.575	1154088.5	4642.747	460	R	390	415	1
4577-35-10693	2012-08-31 0(	832098.375	1154091	4648.827148	460	R	395	414	1
4577-35-10694	2012-08-30 0(	832184.3125	1154107	4653.993164	460	R	397	419	1
4577-35-10695	2012-09-04 0(	832272.125	1154118	4652.915039	460	R	395	420	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10696	2012-09-11 0(	832232.125	1154071	4649.008789	460	I	392	419	1
4577-35-10697	2012-09-21 0(	832148.625	1154059	4647.936035	460	I	392	412	1
4577-35-10698	2012-09-24 0(	832066.625	1154055	4643.207031	460	I	396	406	1
4577-35-10699	2012-09-10 0(	831978.8125	1154051	4644.116211	460	I	397	419	1
4577-35-10700	2012-09-26 0(	831893.236	1154052.3	4637.115	460	I	383	413	1
4577-35-10701	2013-01-18 0(	831807.601	1154065.9	4630.541	460	I	358	384	1
4577-35-10702	2013-02-04 0(	831717.344	1154067.1	4622.754	460	I	350	370	1
4577-35-10703	2013-01-21 0(	831625.051	1154073.1	4611.43	460	I	347	360	1
4577-35-10705	2012-09-25 0(	831587.625	1154034	4603.883789	460	R	342	365	1
4577-35-10706	2012-09-26 0(	831673.3125	1154044	4614.574219	460	R	345	364	1
4577-35-10707	2012-09-18 0(	831758.1875	1154034	4625.535156	460	R	355	375	1
4577-35-10708	2012-09-11 0(	831846.1875	1154020	4632.862793	460	R	380	400	1
4577-35-10709	2012-09-11 0(	831933.3125	1154013	4639.706055	460	R	389	415	1
4577-35-10710	2012-09-25 0(	832019.5	1154006	4637.932129	460	R	390	412	1
4577-35-10711	2012-09-06 0(	832113.125	1154013	4639.900879	460	R	383	405	1
4577-35-10712	2012-09-24 0(	832200.875	1154015	4640.973145	460	I	382	408	1
4577-35-10713	2012-09-05 0(	832284.8125	1154039	4640.728027	460	R	383	411	1
4577-35-10714	2012-09-18 0(	832243.5	1153997	4637.024902	460	I	375	399	1
4577-35-10715	2012-09-24 0(	832158.3125	1153974	4635.088867	460	I	375	401	1
4577-35-10716	2012-09-24 0(	832073.8125	1153975	4633.074219	460	I	373	400	1
4577-35-10717	2012-09-24 0(	831974.125	1153967	4631.240234	460	I	388	409	1
4577-35-10718	2012-09-25 0(	831883.8125	1153967	4631.022949	460	I	376	406	1
4577-35-10719	2012-09-17 0(	831796.625	1153989	4628.431152	460	I	357	383	1
4577-35-10720	2012-09-18 0(	831709.375	1153996	4620.899902	460	I	350	370	1
4577-35-10721	2012-09-25 0(	831638.8125	1153996	4611.458008	460	I	343	358	1
4577-35-10722	2012-09-19 0(	831546.625	1153986	4600.393066	440	I	340	365	1
4577-35-10723	2012-09-26 0(	831598.375	1153952	4606.853027	460	I	347	370	1
4577-35-10727	2012-09-25 0(	831926.6875	1153923	4622.471191	460	R	376	395	1
4577-35-10728	2012-09-25 0(	831998.3125	1153935	4624.993164	460	R	381	401	1
4577-35-10731	2012-09-10 0(	832300.6875	1153956	4635.809082	460	R	378	400	1
4577-35-10732	2012-09-14 0(	832263	1153911	4637.851074	460	I	381	394	1
4577-35-10734	2013-01-23 0(	832077.295	1153897.1	4607.182	440	I	338	358	1
4577-35-10735	2013-01-24 0(	831964.356	1153912.8	4623.237	440	I	377	400	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10736	2012-10-03 0(	831879.1875	1153924	4621.507813	460	I	365	390	1
4577-35-10742	2012-09-27 0(	831928.625	1153854	4588.379883	440	R	332	354	1
4577-35-10743	2012-09-26 0(	832025.1875	1153864	4591.873047	440	R	327	357	1
4577-35-10744	2012-10-02 0(	832063.3125	1153850	4595.278809	440	I	332	359	1
4577-35-10745	2012-09-27 0(	831974.875	1153835	4588.64502	440	I	325	355	1
4577-35-10746	2012-09-27 0(	831881.8125	1153838	4587.408203	440	I	320	345	1
4577-35-10747	2012-10-02 0(	831787.625	1153823	4583.059082	440	I	310	324	1
4577-35-10748	2012-10-01 0(	831709.625	1153811	4580.000977	440	I	310	323	1
4577-35-10749	2012-10-01 0(	831754.375	1153770	4578.161133	440	R	307	321	1
4577-35-10751-2	2013-06-12 0(	831921.513	1153769.9	4618.969	400	R	352	375	1
4577-35-10752	2012-10-04 0(	832015.875	1153777	4621.63623	460	R	365	390	1
4577-35-10753	2012-10-03 0(	832071.375	1153766	4625.521973	460	I	369	394	1
4577-35-10754	2012-10-04 0(	831977.3125	1153761	4620.446777	460	I	365	393	1
4577-35-10755	2012-10-09 0(	831890.375	1153747	4617.592773	460	I	355	375	1
4577-35-10756	2012-10-09 0(	831801.875	1153737	4611.068848	460	I	340	354	1
4577-35-10757	2012-10-10 0(	831715.3125	1153716	4603.173828	460	I	369	399	1
4577-35-10759	2013-01-24 0(	831685.311	1153668	4607.173	460	R	370	390	
4577-35-10760	2012-10-05 0(	831770.3125	1153690	4610.687988	460	R	376	408	1
4577-35-10762	2012-10-02 0(	831942.6875	1153708	4628.883789	480	R	370	387	1
4577-35-10763	2012-10-03 0(	832028.5	1153722	4630.310059	480	R	380	398	1
4577-35-10764	2012-10-04 0(	832080.6875	1153690	4638.651855	480	I	390	404	1
4577-35-10765	2012-10-03 0(	831986.8125	1153681	4638.347168	480	I	390	405	1
4577-35-10766	2012-10-03 0(	831898.3125	1153671	4629.024902	480	I	371	388	1
4577-35-10767	2013-02-12 0(	831820.79	1153655.5	4622.438	480	I	390	424	1
4577-35-10768	2013-01-24 0(	831736.328	1153636.3	4612.038	460	I	366	398	1
4577-35-10769	2013-01-22 0(	831683.636	1153623.5	4607.815	460	I	366	399	
4577-35-10770	2012-10-03 0(	831585.8125	1153562	4572.618164	420	I	355	370	
4577-35-10773	2012-10-09 0(	831640.3125	1153554	4576.118164	420	R	343	370	
4577-35-10774	2013-01-22 0(	831709.266	1153581.1	4606.924	460	R	370	400	
4577-35-10775	2012-10-03 0(	831783.375	1153595	4618.399902	480	R	365	405	1
4577-35-10776	2013-01-24 0(	831868.434	1153613.1	4629.272	480	R	404	430	1
4577-35-10777	2013-01-23 0(	831949.88	1153634.2	4643.755	480	R	413	438	1
4577-35-10778	2012-10-03 0(	832033.375	1153648	4646.963867	480	R	398	414	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10779	2013-01-16 0(	832080.997	1153616.9	4652.126	480	I	407	435	1
4577-35-10780	2012-10-05 0(	831996.1875	1153597	4650.006836	480	I	419	445	1
4577-35-10781	2013-01-17 0(	831923.174	1153586.2	4641.345	480	I	413	437	1
4577-35-10782	2012-10-10 0(	831762.125	1153544	4613.571777	460	I	381	409	1
4577-35-10783	2013-01-25 0(	831705.57	1153531.5	4606.245	420	I	370	394	
4577-35-10784	2012-10-04 0(	831623.3125	1153500	4573.861816	420	I	342	372	
4577-35-10786	2013-01-28 0(	831538.726	1153386.7	4606.012	460	I			
4577-35-10787	2013-03-20 0(	831606.32	1153434.1	4597.973	440	R			
4577-35-10788	2012-10-09 0(	831673.375	1153465	4575.073242	420	R	340	367	
4577-35-10789	2012-10-04 0(	831739.591	1153478.5	4579.676	420	R	345	373	
4577-35-10790	2012-10-09 0(	831799.125	1153522	4615.933105	460	I	352	365	1
4577-35-10791	2012-10-04 0(	831884.875	1153533	4630.660156	480	R	410	427	
4577-35-10793	2012-10-02 0(	832047.875	1153563	4654.562012	480	R	416	441	1
4577-35-10794	2013-01-16 0(	832105.493	1153548.6	4652.407	480	I	413	433	1
4577-35-10795	2013-01-23 0(	832015.294	1153511.1	4640.735	480	I	406	430	1
4577-35-10797	2012-10-05 0(	831861.1875	1153479	4619.751953	460	I	400	412	
4577-35-10798	2013-01-16 0(	831775.064	1153450.9	4584.809	420	I	351	379	
4577-35-10799	2013-02-13 0(	831725.746	1153430.6	4576.713	420	I	342	372	
4577-35-10800	2013-03-20 0(	831662	1153413	4595.22	440	I	362	387	
4577-35-10801	2013-01-29 0(	831610.016	1153382.5	4605.517	460	I			
4577-35-10802	2013-01-25 0(	831695.411	1153374.6	4605.095	440	R	370	398	
4577-35-10803	2013-02-08 0(	831774.401	1153394.6	4578.551	420	R	345	374	
4577-35-10804	2013-01-16 0(	831846.626	1153405.8	4585.492	420	I	351	379	
4577-35-10805	2013-01-25 0(	832071.129	1153499.2	4649.93	480	R	412	439	1
4577-35-10807	2013-01-24 0(	832119.969	1153464.4	4637.022	480	I	410	443	1
4577-35-10808	2013-01-24 0(	832036.551	1153448	4629.388	480	I	403	435	1
4577-35-10810	2012-10-05 0(	831821	1153364	4580.621094	420	I	351	375	
4577-35-10811	2012-10-10 0(	831763.7	1153344	4579.167	420	I	351	374	
4577-35-10812	2012-10-10 0(	831700	1153310	4611.023	460	I	377	400	
4577-35-10813	2013-04-05 0(	831737.011	1153284.5	4604.743	420	R	375	397	
4577-35-10814	2012-10-09 0(	831810	1153307	4580.555176	420	R	351	374	
4577-35-10815	2013-03-11 0(	831870.887	1153330.7	4593.956	420	I	362	387	
4577-35-10818	2013-04-02 0(	832131.115	1153373.2	4618.821	460	I	392	423	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10820	2013-02-13 0(	831854.818	1153270.4	4592.744	420	I	362	385	
4577-35-10821	2012-10-09 0(	831804.125	1153248	4581.790039	420	I	351	374	
4577-35-10822	2013-01-28 0(	831725.405	1153218.3	4620.831	440	I	395	420	
4577-35-10823	2013-02-12 0(	831800.065	1153186.6	4586.106	420	R			
4577-35-10824	2013-04-05 0(	831846.437	1153211.4	4597.053	420	R			
4577-35-10825	2012-10-04 0(	831907.4	1153230	4616.703	460	I			
4577-35-10826	2013-01-30 0(	831963.9	1153220	4620.08	460	R			
4577-35-10827	2013-01-29 0(	831899.896	1153175.3	4620.583	460	I			
4577-35-10828	2012-10-04 0(	831834.1875	1153156	4586.327148	420	I			
4577-35-10829	2013-02-28 0(	831746.109	1153131.4	4628.626	480	I			
4577-35-10830	2013-04-05 0(	831879.595	1153114.9	4606.179	425	R			
4577-35-10831	2012-10-09 0(	831957.6	1153161	4624.442	460	I			
4577-35-10832	2012-10-04 0(	832011.3	1153155	4625.998	460	R			
4577-35-10834	2012-10-10 0(	831852.625	1153066	4588.934082	420	I			
4577-35-10837	2013-02-13 0(	832263.716	1153085.1	4646.068	460	I	437	448	
4577-35-10838	2013-01-29 0(	832343.727	1153087.7	4641.572	460	I	435	445	
4577-35-10839	2012-10-03 0(	832303.8	1153043	4651.723	460	R	440	455	
4577-35-10841	2012-10-04 0(	832093.5	1153037	4646.495	480	I	385	395	
4577-35-10842	2012-10-09 0(	832032.4	1153030	4639.579	480	R	378	388	
4577-35-10843	2012-10-03 0(	832003.8	1152979	4634.145	460	I	375	385	
4577-35-10844	2012-10-03 0(	832334.2	1152996	4656.164	480	I	450	460	
4577-35-10845	2013-01-28 0(	832152.901	1154270.4	4649.581	460	R	400	422	1
4577-35-10846	2013-01-25 0(	832061.607	1154234.6	4638.489	460	I	386	408	1
4577-35-10847	2013-01-25 0(	832066.252	1154125.9	4647.888	460	I	399	414	1
4577-35-10849	2013-01-23 0(	832484.83	1153758.9	4669.218	480	I	411	437	1
4577-35-10880	2013-03-05 0(	832008.855	1152793.5	4639.434	450	I			
4577-35-10881	2013-02-20 0(	832117.446	1152783.8	4608.288	440	I			
4577-35-10882	2013-03-01 0(	832192.4	1152754	4616.297	440	I			
4577-35-10883	2013-02-05 0(	832059.9	1152758	4643.787	460	R			
4577-35-10884	2013-02-19 0(	832143.111	1152729.3	4610.168	440	R			
4577-35-10885	2013-02-06 0(	832006.3	1152734	4642.773	460	I			
4577-35-10886	2013-02-05 0(	832087.3	1152706	4648.258	460	I			
4577-35-10887	2013-03-07 0(	832147.119	1152669.4	4634.25	450	I			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10891	2013-02-21 0(	832250.893	1152623.4	4623.289	440	I			
4577-35-10892	2013-03-21 0(	832317.9	1152622	4651.753	460	R			
4577-35-10894	2013-02-20 0(	832310.737	1152558.2	4620.684	460	I			
4577-35-10900	2013-03-08 0(	831378.042	1152710.6	4603.523	480	I			
4577-35-10901	2013-02-28 0(	831475.786	1152697.4	4583.691	440	I			
4577-35-10902	2013-04-05 0(	831549.429	1152683.6	4605.638	460	I			
4577-35-10903	2013-04-05 0(	831423.693	1152671.9	4585.002	440	R			
4577-35-10904	2013-02-28 0(	831498.009	1152646.4	4585.119	440	R			
4577-35-10905	2013-03-08 0(	831368.426	1152647.5	4604.257	480	I			
4577-35-10906	2013-03-11 0(	831443.03	1152614.7	4587.011	440	I			
4577-35-10907	2013-03-01 0(	831512.4	1152584	4587.1	440	I			
4577-35-10908	2013-03-07 0(	831575.812	1152626	4607.364	460	R			
4577-35-10911	2013-02-28 0(	831618.01	1152637	4610.817	480	I			
4577-35-10912	2013-02-12 0(	831663.815	1152661.5	4620.649	480	I			
4577-35-10913	2013-02-27 0(	831601.523	1152577.8	4610.788	480	I			
4577-35-10914	2013-02-13 0(	831657.476	1152593.5	4624.03	480	R			
4577-35-10915	2013-02-27 0(	831716.145	1152607.1	4634.123	480	I			
4577-35-10916	2013-02-13 0(	831663.009	1152542.1	4623.779	480	I			
4577-35-10917	2013-02-12 0(	831723.608	1152547.4	4634.28	480	R			
4577-35-10918	2013-02-25 0(	831770.366	1152513.4	4639.243	480	I			
4577-35-10919	2013-02-08 0(	831695.563	1152493.6	4631.203	480	I			
4577-35-10923	2013-02-01 0(	832017.5	1152492	4665.859	480	I			
4577-35-10924	2013-02-06 0(	832076.5	1152498	4661.11	480	I			
4577-35-10926	2013-04-03 0(	832199.951	1152493.6	4651.687	470	I			
4577-35-10927	2013-02-05 0(	832012.1	1152434	4670.279	480	I			
4577-35-10928	2013-02-01 0(	832073.1	1152438	4666.899	480	R			
4577-35-10929	2013-02-11 0(	832132.279	1152444.4	4663.455	480	I			
4577-35-10930	2013-02-05 0(	832192.9	1152446	4659.785	480	R			
4577-35-10931	2013-02-12 0(	832252.154	1152435.4	4654.795	470	I			
4577-35-10932	2013-02-11 0(	831661.164	1152437.6	4631.638	480	I			
4577-35-10933	2013-02-08 0(	831722.7	1152439	4636.502	480	R			
4577-35-10934	2013-02-22 0(	831783.102	1152436.5	4644.204	480	I			
4577-35-10935	2013-04-05 0(	831618.03	1152347	4605.073	460	I			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10936	2013-02-11 0(	831672	1152378	4635.666	480	R			
4577-35-10937	2013-02-08 0(	831731.7	1152380	4641.63	480	I			
4577-35-10938	2013-02-22 0(	831793	1152374.1	4649.955	480	R			
4577-35-10939	2013-02-07 0(	831851.8	1152372	4655.132	480	I			
4577-35-10940	2013-02-12 0(	831957.403	1152370.5	4667.46	490	I			
4577-35-10941	2013-02-06 0(	832021.349	1152375.4	4672.501	490	R			
4577-35-10942	2013-02-07 0(	832080.3	1152378	4671.08	490	I			
4577-35-10943	2013-02-04 0(	832140.2	1152384	4668.615	490	R			
4577-35-10944	2013-02-05 0(	832200.1	1152387	4667.336	480	I			
4577-35-10947	2013-03-01 0(	832255.3	1152316.1	4669.002	480	I			
4577-35-10948	2013-02-04 0(	832195.8	1152326	4673.106	490	R			
4577-35-10949	2013-02-08 0(	832136.487	1152324	4675.288	490	I			
4577-35-10950	2013-02-07 0(	832077.6	1152318	4675.146	500	R			
4577-35-10951	2013-02-08 0(	832018.473	1152313.9	4672.028	490	I			
4577-35-10952	2013-02-28 0(	831961.515	1152318.8	4668.439	490	R			
4577-35-10953	2013-02-11 0(	831904.98	1152313.7	4662.581	480	I			
4577-35-10954	2013-02-08 0(	831845.589	1152310.8	4658.967	480	R			
4577-35-10955	2013-02-26 0(	831785.241	1152313.8	4648.444	480	I			
4577-35-10956	2013-02-08 0(	831726.6	1152321	4640.625	480	R			
4577-35-10957	2013-02-12 0(	831670.068	1152321.7	4632.143	480	I			
4577-35-10958	2013-02-11 0(	831716.482	1152260.2	4640.243	480	I			
4577-35-10959	2013-02-25 0(	831775.313	1152253.6	4648.891	480	R			
4577-35-10960	2013-02-26 0(	831830.757	1152255.1	4654.513	480	I			
4577-35-10961	2013-02-07 0(	831894.6	1152256	4657.716	480	R			
4577-35-10962	2013-02-06 0(	831954.3	1152258	4665.179	480	I			
4577-35-10963	2013-02-05 0(	832016.1	1152254	4670.521	490	R			
4577-35-10964	2013-02-06 0(	832073.2	1152259	4675.29	490	I			
4577-35-10965	2013-02-08 0(	832132.4	1152265	4676.821	500	R			
4577-35-10966	2013-02-08 0(	832192.2	1152267	4677.581	500	I			
4577-35-10967	2013-02-08 0(	832251.3	1152257	4675.417	500	R			
4577-35-10968	2013-02-06 0(	832306.7	1152236	4675.087	500	I			
4577-35-10969	2013-02-07 0(	832243.519	1152198	4679.93	500	I			
4577-35-10970	2013-02-07 0(	832184.8	1152207	4677.795	500	R			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10971	2013-02-08 0(	832126.6	1152205	4672.695	500	I			
4577-35-10972	2013-02-26 0(	832066.521	1152196.3	4665.491	490	R			
4577-35-10973	2013-02-08 0(	832005.1	1152195	4662.781	490	I			
4577-35-10974	2013-02-08 0(	831949	1152202	4655.697	480	R			
4577-35-10975	2013-02-13 0(	831887.739	1152197.3	4646.636	480	I			
4577-35-10976	2013-02-12 0(	831828.501	1152193.6	4640.829	480	R			
4577-35-10977	2013-02-12 0(	831775.096	1152206.8	4640.937	480	I			
4577-35-10978	2013-03-07 0(	831828.513	1152132.5	4618.618	480	I			
4577-35-10979	2013-03-06 0(	831886.488	1152135.6	4624.611	480	R			
4577-35-10980	2013-04-05 0(	831940.519	1152140.1	4643.251	480	I			
4577-35-10981	2013-04-05 0(	832006.648	1152133.7	4642.843	480	R			
4577-35-10982	2013-02-13 0(	832062.151	1152138.9	4659.762	480	I			
4577-35-10983	2013-02-22 0(	832119.811	1152144.7	4665.62	490	R			
4577-35-10984	2013-02-12 0(	832181.922	1152146.2	4673.826	500	I			
4577-35-10987	2013-02-21 0(	832234.796	1152078.1	4674.783	500	I			
4577-35-10988	2013-02-14 0(	832176.848	1152086.7	4668.123	490	R			
4577-35-10989	2013-02-27 0(	832115.474	1152087.9	4661.639	480	I			
4577-35-10990	2013-04-05 0(	832061.427	1152079.1	4643.831	480	R			
4577-35-10991	2013-04-05 0(	831995.758	1152072.8	4638.108	480	I			
4577-35-10993	2013-03-05 0(	831873.565	1152081.7	4640.799	480	I			
4577-35-10DM10	2012-06-05 0(	833547.375	1154227	4656.126953	620	DM	0	0	
4577-35-10DM11	2012-06-08 0(	832652.8	1154128	4658.482	660	DM	0	0	
4577-35-10DM12	2012-06-06 0(	831647.625	1154233	4615.404785	560	DM	0	0	
4577-35-10DM6	2012-06-07 0(	832103.6875	1152353	4670.183105	640	DM	0	0	
4577-35-10DM7	2012-06-05 0(	833304.8125	1152919	4702.074219	680	DM	0	0	
4577-35-10DM8	2012-06-08 0(	833435.198	1153370.8	4715.245	660	DM			
4577-35-10DM9	2012-06-11 0(	831835.3125	1153559	4622.079102	520	DM	0	0	
4577-35-10MP10	2012-06-06 0(	833547.1875	1154238	4657.723145	460	BL	373	399	1
4577-35-10MP11	2012-06-08 0(	832650.875	1154137	4658.848145	480	R	402	423	1
4577-35-10MP12	2012-06-06 0(	831646.8125	1154241	4615.499023	460	I	373	394	1
4577-35-10MP6	2012-06-07 0(	832104.5	1152364	4671.413086	500	BL	443	461	1
4577-35-10MP7	2012-06-11 0(	833302.3125	1152912	4703.24707	520	BL	454	477	1
4577-35-10MP8A	2012-06-08 0(	833433.375	1153360	4716.209961	660	I	473	495	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-35-10MP9	2012-06-12 0(	831834.375	1153568	4622.969238	460	I	395	421	1
4577-35-10MW25	2012-06-13 0(	831297.5	1152042	4649.068848	500	PM	395	455	1
4577-35-10MW26	2012-08-30 0(	831178.8125	1152381	4644.398926	500	PM	374	469	1
4577-35-10MW27	2012-08-29 0(	831094.3125	1152711	4661.405762	480	PM	389	482	1
4577-35-10MW28	2012-08-30 0(	831255.375	1152931	4626.178223	480	PM	352	450	1
4577-35-10MW29	2012-06-12 0(	831441	1153192	4571.309082	480	PM	300	400	1
4577-35-10MW30A	2012-07-02 0(	831246.3	1153515	4598.756	460	PM	340	409	1
4577-35-10MW31	2012-06-28 0(	831288.625	1153943	4583.542969	340	PM	325	385	1
4577-35-10MW32	2012-06-11 0(	831138.3125	1154075	4556.907227	440	PM	298	370	1
4577-35-10MW33	2012-06-12 0(	831045.625	1154368	4551.891113	460	PM	305	365	1
4577-35-10MW34	2012-06-13 0(	831180.875	1154635	4546.749023	440	PM	295	362	1
4577-35-10MW35	2012-06-12 0(	831439.6875	1154797	4565.382813	440	PM	295	377	1
4577-35-10MW36	2012-06-18 0(	831720.125	1154653	4610.180176	440	PM	323	425	1
4577-35-10MW37	2012-06-20 0(	831947.5	1154744	4607.305176	460	PM	317	407	1
4577-35-10MW38	2012-06-28 0(	832266.375	1154691	4619.676758	460	PM	330	419	1
4577-35-10MW39	2012-06-12 0(	832555	1154797	4609.111816	460	PM	315	407	1
4577-35-10MW40	2012-06-11 0(	832831.1875	1154703	4642.734863	500	PM	357	436	1
4577-35-10MW41	2012-06-12 0(	833090.3125	1154561	4651.806152	480	PM	360	442	1
4577-35-10MW42	2012-06-14 0(	833387.5	1154588	4631.523926	460	PM	360	426	1
4577-35-10MW43	2012-06-15 0(	833677.8125	1154646	4666.900879	470	PM	387	470	1
4577-35-10SM10	2012-06-06 0(	833546.625	1154246	4657.606934	320	SM	270	302	1
4577-35-10SM11	2012-06-11 0(	832650.875	1154147	4660.200195	340	SM	275	320	1
4577-35-10SM12	2012-06-07 0(	831647.375	1154250	4616.670898	320	SM	247	280	1
4577-35-10SM6	2012-06-08 0(	832105.125	1152374	4672.21582	360	SM	305	339	1
4577-35-10SM7	2012-06-08 0(	833302.375	1152904	4705.721191	360	SM	321	362	1
4577-35-10SM8	2012-06-11 0(	833436.875	1153383	4717.041016	360	SM	334	370	1
4577-35-10SM9	2012-06-12 0(	831833.375	1153578	4624.74707	320	SM	261	292	1
4577-35-10TW1	2012-06-13 0(	831391.856	1152314.2	4630.387	500	TW	365	452	1
4577-35-10TW2	2012-06-12 0(	831454.3	1152897.5	4574.562	480	TW	308	398	1
4577-35-11031	2013-04-08 0(	831621.13	1152499.8	4611.772	480	R			
4577-35-11033	2013-04-04 0(	832335.977	1152679.9	4657.904	500	I			
4577-36-10MW2	2012-08-29 0(	834098.3125	1152279	4657.594238	500	PM	366	445	1
4577-36-10MW3	2012-08-27 0(	834388.5	1152422	4616.024902	500	PM	305	398	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4577-36-10MW4	2012-08-27 0(	834754.125	1152418	4668.779785	500	PM	354	483	1
4577-36-10MW44	2012-08-23 0(	834123.875	1154435	4669.338867	480	PM	356	449	1
4577-36-10MW45	2012-08-24 0(	834187.125	1153939	4696.621094	480	PM	383	485	1
4577-36-10MW46	2012-08-27 0(	834100.1875	1153455	4664.285156	480	PM	359	447	1
4577-36-10MW47	2012-08-27 0(	834216.875	1152970	4669.661133	540	PM	361	452	1
4577-36-10MW48	2012-08-27 0(	834046.625	1152499	4670.056152	520	PM	371	462	1
4577-36-10MW5	2012-08-28 0(	835047.375	1152423	4676.030762	500	PM	362	495	1
4577-36-10MW6	2012-08-28 0(	835539.375	1152432	4632.351074	460	PM	342	410	1
4577-36-10MW7	2012-08-28 0(	836029.125	1152441	4601.629883	460	PM	276	365	1
4577-36-10MW8	2012-08-27 0(	836474.375	1152318	4582.666992	440	PM	254	349	1
4577-4-IRPT-10D	2013-03-07 0(	817799.691	1179213	4321.538	380	DM	347	380	1
4577-9-WW5-1	2013-09-06 0(	817606.8464	1176103.2		860	WW			1
4677-32-IRPT-05D	2013-03-06 0(	815687.341	1184073.4	4472.686	540	DM	460	504	1
4677-32-IRPT-3D	2013-03-06 0(	814013.571	1186591.5	4393.242	480	DM	377	450	1
4677-32-IRPT-3S	2013-03-07 0(	813999.891	1186578.5	4396.508	230	SM	185	227	1
4677-32-IRPT-5S	2013-03-06 0(	815685.697	1184051.1	4470.507	290	SM	245	288	1
4C62-1	1993-04-29 0(	842873.6875	1141980	4743.100098	420	MW	388	396	
4D52-1	1993-04-26 0(	842952	1142405	4714.700195	380	MW	364	369	
4DM-1	1993-05-04 0(	844296	1139816	4767.799805	640	DM	572	630	
4DM-4	1993-04-29 0(	844013.375	1141655	4716.600098	580	DM	510	565	
4DM-8	1993-04-23 0(	843757.1875	1142925	4714.600098	630	DM	540	610	
4DRM-07	1986-08-28 0(	844091.1875	1140831	4758.799805	582	DM	560	585	
4E1-1	1992-06-22 0(	842986	1144572	4687.700195	450	I	339	344	
4E2-1	1992-06-19 0(	843028.875	1144529	4686.5	450	I	299	304	
4E3-2	1992-08-13 0(	843008.1875	1144502	4688.169922	380	I	310	315	
4E5-1	1992-12-09 0(	843021.875	1144430	4688.629883	470	R	350	380	
4E6-1	1989-11-14 0(	843034.875	1144364	4685.200195	420	MW	343	348	
4E72-1	1993-04-27 0(	843038.625	1141555	4724.899902	410	MW	358	365	
4F1-1	1992-06-19 0(	843063.125	1144572	4684.5	450	I	322	327	
4F2-2	1992-07-13 0(	843119.1875	1144536	4682.600098	400	R	315	325	
4F3-1	1992-06-24 0(	843080.8125	1144488	4685.200195	450	I	300	305	
4F5-1	1992-12-10 0(	843097	1144424	4683.310059	470	R	340	370	
4G2-2	1992-06-30 0(	843193.1875	1144517	4681.799805	450	R	341	347	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4G3-1	1992-07-01 0(	843165.1875	1144487	4682.799805	450	I	344	354	
4H2-1	1992-06-25 0(	843290.375	1144526	4679	440	R	324	333	
4H3-3	1992-08-13 0(	843280.375	1144488	4680.310059	380	I	329	336	
4H7-1	1989-11-22 0(	843391.6875	1144256	4633.5	420	MW	284	291	
4I2-1	1992-06-22 0(	843378.375	1144530	4674.700195	440	R	295	304	
4I3-1	1992-06-25 0(	843335.5	1144487	4677.600098	440	I	319	325	
4I4-1	1993-07-14 0(	843379.875	1144444	4676.569824	460	R	410	423	
4J1-2	1992-08-31 0(	843399	1144575	4672.959961	440	I	302	315	
4J20-1	1993-04-16 0(	843460.875	1143765	4682.299805	350	MW	314	324	
4J2-1	1992-06-22 0(	843446.3125	1144530	4671.5	440	I	374	379	
4J26-1	1993-04-26 0(	843496.6875	1143510	4690.609863	490	R	371	380	
4J27-2	1993-10-07 0(	843454.8125	1143508	4699.879883	420	I	378	385	
4J3-1	1992-06-23 0(	843419.875	1144487	4673.5	440	I	295	300	
4J5-1	1993-07-14 0(	843420	1144402	4675.509766	440	I	411	425	
4J6-1	1993-07-19 0(	843461.8125	1144360	4672.839844	450	R	412	420	
4K2-1	1992-06-24 0(	843546.8125	1144533	4666.399902	420	R	370	388	
4K25-1	1993-05-27 0(	843505.1875	1143552	4691.439941	480	I	383	391	
4K27-2	1993-10-07 0(	843544.3125	1143470	4683.029785	420	I	375	383	
4K28-1	1993-07-15 0(	843548.3125	1143425	4667.009766	480	I	354	357	
4K29-1	1993-07-15 0(	843528.3125	1143383	4667.27002	460	R	360	365	
4K3-1	1992-06-23 0(	843506.375	1144487	4669.700195	440	I	362	370	
4K32-2	1993-10-18 0(	843588.875	1143249	4701.129883	400	R	338	343	
4K4-1	1993-07-13 0(	843546.875	1144444	4664.060059	440	R	364	373	
4K6-1	1993-07-15 0(	843547.8125	1144359	4654.930176	420	R	359	371	
4K7-1	1995-04-03 0(	843515.625	1144323	4657.5	440	I	370	386	
4K9-1	1990-01-03 0(	843642.875	1144196	4648.100098	400	MW	355	374	
4L30-2	1993-11-29 0(	843613.8125	1143339	4691.649902	440	I	418	427	
4L31-1	1993-06-15 0(	843587.5	1143298	4685	480	I	379	384	
4L31-2	1993-11-22 0(	843584.125	1143295	4684.370117	360	I	324	331	
4L32-1	1993-06-15 0(	843643.375	1143250	4697.339844	500	R	377	389	
4L33-1	1993-05-27 0(	843588.5	1143212	4701.450195	500	I	339	346	
4L34-1	1993-06-02 0(	843631.625	1143169	4704.560059	500	I	373	382	
4L34-2	1993-10-18 0(	843627.8125	1143166	4704.660156	400	R	339	352	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4L35-1	1993-05-28 0(	843589.6875	1143127	4711.189941	500	I	351	360	
4L36-2	1995-03-21 0(	843641.8125	1143102	4712.669922	400	BL	342	362	
4L5-1	1993-07-15 0(	843589.875	1144403	4652.97998	420	I	350	356	
4L7-1	1993-07-16 0(	843590.375	1144316	4637.5	400	I	334	342	
4L8-1	1993-07-08 0(	843631.375	1144273	4625.049805	400	R	320	335	
4L9-1	1993-07-09 0(	843589.625	1144211	4647.640137	400	I	340	347	
4M28-1	1993-06-23 0(	843717.125	1143425	4692.290039	440	R	404	412	
4M29-2	1993-10-18 0(	843683.875	1143372	4694.709961	440	R	406	419	
4M34-1	1993-04-23 0(	843716.6875	1143168	4713.700195	480	R	459	464	
4M34-2	1993-08-26 0(	843697.375	1143168	4712.089844	480	R	350	359	
4M35-2	1993-11-17 0(	843676.375	1143130	4712.390137	380	I	338	363	
4M36-1	1993-06-01 0(	843716.6875	1143085	4719.830078	500	I	443	454	
4M38-3	1993-11-19 0(	843717.875	1143006	4719.720215	470	I	447	457	
4M40-1	1993-04-16 0(	843719.625	1142913	4711.899902	460	R	350	365	
4M42-2	1993-11-04 0(	843713.625	1142829	4702.589844	390	I	350	357	
4M43-2	1993-07-16 0(	843715.3125	1142786	4699.390137	480	I	422	427	
4M43-3	1993-10-18 0(	843721.375	1142785	4699.5	390	R	359	364	
4M44-1	1993-07-14 0(	843720.875	1142747	4693.200195	460	R	421	426	
4M45-1	1993-07-14 0(	843665.3125	1142701	4687.939941	480	I	426	433	
4M49-1	1993-06-25 0(	843675.125	1142532	4688.080078	450	I	420	425	
4M50-1	1993-06-28 0(	843719.5	1142491	4681.850098	450	R	388	391	
4MW-1	1993-10-06 0(	843312.5	1143758	4692.700195	490	PM	306	468	
4MW-10	1993-10-20 0(	844298.6875	1142237	4679.299805	450	PM	273	426	
4MW-11	1993-10-18 0(	843313.875	1141785	4702.830078	520	PM	318	510	
4MW-12	1993-10-19 0(	844523.625	1141843	4715.129883	480	PM	285	446	
4MW-13	1993-12-06 0(	843439.125	1141378	4669.930176	415	PM	270	405	
4MW-14	1993-12-08 0(	844660.625	1141420	4741.950195	500	PM	320	488	
4MW-15	1993-12-06 0(	843642.875	1141168	4714.640137	475	PM	305	463	
4MW-16	1993-12-08 0(	844807.625	1140987	4756.47998	510	PM	335	499	
4MW-17	1993-12-06 0(	843824.3125	1140961	4735.870117	500	PM	316	489	
4MW-18	1993-12-08 0(	844765.125	1140515	4767.109863	535	PM	364	525	
4MW-19	1993-12-07 0(	843778.5	1140682	4737.259766	495	PM	324	486	
4MW-2	1993-10-18 0(	844049.875	1144014	4643.77002	410	PM	236	400	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4MW-20	1993-12-09 0(	845060.375	1140135	4719.279785	335	PM	325	488	
4MW-21	1993-12-07 0(	843752.625	1140221	4753.720215	500	PM	342	488	
4MW-22	1993-12-08 0(	844809.3125	1139723	4731.899902	490	PM	340	480	
4MW-23	1993-12-07 0(	843776.375	1139758	4803.160156	405	PM	388	550	
4MW-24	1993-12-08 0(	844426.125	1139429	4746.580078	500	PM	349	494	
4MW-25	1993-12-07 0(	844009.875	1139357	4780.439941	520	PM	372	510	
4MW-3	1993-10-07 0(	843173.3125	1143519	4719.959961	520	PM	336	495	
4MW-4	1993-10-19 0(	844178.625	1143580	4652.430176	460	PM	252	411	
4MW-5	1993-10-07 0(	843122.875	1143112	4739.689941	560	PM	342	534	
4MW-6	1993-10-19 0(	844243.375	1143130	4660.560059	460	PM	264	419	
4MW-7	1993-10-18 0(	843221.8125	1142680	4727.459961	540	PM	330	518	
4MW-8	1993-10-19 0(	844184.875	1142678	4674.819824	460	PM	269	433	
4MW-9	1993-10-07 0(	843328.125	1142236	4688.740234	510	PM	330	470	
4N29-1	1993-06-21 0(	843759.375	1143382	4699.790039	440	I	407	413	
4N37-1	1993-06-02 0(	843759.375	1143041	4724.419922	480	I	443	455	
4N38-1	1993-06-02 0(	843801.875	1142999	4721.060059	480	R	445	452	
4N39-2	1993-08-26 0(	843734.375	1142957	4716.060059	470	R	446	452	
4N40-2	1993-11-19 0(	843785.125	1142915	4716.279785	470	I	441	454	
4N41-2	1993-08-26 0(	843727.875	1142871	4707.410156	470	I	351	362	
4N51-4	1993-11-17 0(	843761.375	1142430	4673.209961	410	I	373	376	
4N52-1	1993-06-25 0(	843801.8125	1142404	4659.410156	420	R	363	373	
4N53-2	1993-07-19 0(	843788.5	1142362	4655.180176	420	I	360	370	
4N54-1	1993-06-15 0(	843802.1875	1142320	4655.339844	420	R	361	366	
4N57-2	1993-07-09 0(	843785.125	1142189	4652.669922	420	I	380	385	
4N58-2	1993-08-02 0(	843802.125	1142151	4653.009766	420	R	370	385	
4N66-2	1993-08-02 0(	843776.6875	1141807	4679.459961	440	R	395	400	
4N68-1	1993-07-02 0(	843802.125	1141728	4680.910156	460	I	392	395	
4N70-1	1993-07-28 0(	843815.8125	1141640	4700.640137	440	I	403	406	
4O48-1	1993-07-01 0(	843887.625	1142574	4682.160156	400	I			
4O55-2	1993-07-20 0(	843799.625	1142279	4656.709961	400	I	370	376	
4O58-1	1993-05-03 0(	843887.1875	1142148	4690.799805	440	R	416	429	
4O59-2	1993-07-09 0(	843889.875	1142106	4696.580078	460	I	420	426	
4O60-1	1993-06-10 0(	843887.3125	1142064	4698.040039	460	I	417	422	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4O62-2	1993-06-24 0(	843917	1141980	4699.600098	440	R	395	404	
4O63-2	1993-07-02 0(	843865.3125	1141936	4703.009766	450	I	387	391	
4O64-1	1993-06-22 0(	843886.8125	1141896	4705.220215	440	I	385	388	
4O66-1	1993-06-22 0(	843887.625	1141809	4707.509766	470	R	391	402	
4O67-2	1993-07-15 0(	843866	1141784	4702.870117	450	I	405	411	
4O67-3	1993-07-21 0(	843823.6875	1141780	4694.47998	460	I	408	414	
4O68-1	1993-04-27 0(	843887.5	1141724	4702.5	460	I	387	401	
4O69-1	1993-06-24 0(	843844.8125	1141682	4701.740234	450	R	408	411	
4O70-1	1993-06-23 0(	843886.625	1141640	4707.350098	430	R	391	400	
4O71-1	1993-06-23 0(	843847.875	1141601	4706.470215	430	I	387	390	
4O72-1		843887.125	1141556	4713.540039	430	I	385	389	
4O73-2	1993-07-13 0(	843871.8125	1141527	4714.319824	450	R	416	426	
4O74-1	1993-07-01 0(	843887.625	1141470	4718.930176	440	I	426	433	
4O78-1	1993-07-08 0(	843887.875	1141300	4726.029785	500	I	448	454	
4P63-1	1993-06-24 0(	843928.125	1141942	4702.009766	460	I	393	400	
4P65-2	1993-06-24 0(	843886.8125	1141854	4707.709961	430	I	386	397	
4P67-1	1993-06-14 0(	843928.375	1141767	4710.540039	440	I	398	410	
4P68-1	1993-06-15 0(	843972.3125	1141725	4714.589844	420	R	403	409	
4P69-1	1993-06-21 0(	843929.6875	1141681	4709.660156	430	I	394	399	
4P70-1	1993-06-16 0(	843972.375	1141639	4715	430	I	385	397	
4P71-1	1993-06-23 0(	843930.875	1141599	4712.700195	430	I	392	395	
4P72-2	1993-06-30 0(	843971	1141561	4718.540039	440	R	394	399	
4P73-1	1993-06-16 0(	843928.625	1141513	4718.899902	430	I	403	408	
4P74-1	1993-04-29 0(	843977.6875	1141470	4722.299805	440	I	408	421	
4P75-1	1993-07-16 0(	843930	1141427	4722.740234	460	R	421	432	
4P76-1	1993-07-07 0(	843973	1141385	4726.629883	440	R	410	426	
4P77-2	1993-08-19 0(	843955.875	1141341	4727.660156	480	I	409	412	
4P77-3	1993-12-15 0(	843961.625	1141340	4728.379883	350	R	330	336	
4P78-1	1993-07-08 0(	843972.8125	1141300	4729.649902	500	R	406	412	
4P78-2	1993-12-21 0(	843978.625	1141298	4729.779785	350	I	332	339	
4P79-2	1994-01-31 0(	843929.8125	1141263	4729.359863	480	I	450	461	
4P80-1	1993-07-22 0(	843971.125	1141215	4733.47998	480	I	341	346	
4P80-2	1993-08-30 0(	843941.625	1141217	4731.890137	480	R	444	447	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4Q69-2	1993-06-24 0(	843995.3125	1141681	4715.700195	420	I	387	395	
4Q70-3	1993-07-16 0(	844077.125	1141640	4716.509766	440	R	395	401	
4Q73-1	1993-06-16 0(	844014.6875	1141512	4722.100098	430	BL	404	416	
4Q74-2	1993-07-12 0(	844076.875	1141468	4725.009766	430	R	388	400	
4Q75-3	1993-08-09 0(	844011.8125	1141453	4724.740234	440	I	390	396	
4Q77-2	1994-01-11 0(	844013.625	1141337	4729.540039	440	I	409	422	
4Q78-1	1993-04-27 0(	844057	1141300	4732.899902	460	I	411	416	
4Q79-1	1993-07-21 0(	844014.875	1141257	4733.370117	440	R	407	424	
4Q79-2	1993-08-19 0(	843979.1875	1141258	4731.669922	480	R	337	344	
4R69-1	1993-06-30 0(	844099.625	1141681	4713.459961	420	I	381	386	
4R71-2	1993-07-12 0(	844079.8125	1141597	4719.029785	440	I	391	396	
4R73-2	1993-07-12 0(	844074.8125	1141513	4723.390137	430	I	384	398	
4R75-1	1993-06-21 0(	844099.625	1141427	4728.459961	440	I	389	397	
4R76-3	1993-12-20 0(	844147.125	1141385	4732.339844	480	R	386	401	
4R77-1	1993-07-06 0(	844101.375	1141345	4732.509766	440	I	394	404	
4R78-1	1993-07-09 0(	844143.1875	1141299	4736.759766	440	R	387	397	
4R79-3	1994-11-11 0(	844079.625	1141262	4734.680176	440	I			
4R80-1	1993-07-23 0(	844143.5	1141215	4740.759766	480	R	341	348	
4R82-2	1993-08-17 0(	844115.3125	1141127	4744.470215	460	I	421	431	
4R83-1	1993-07-21 0(	844099	1141088	4746.129883	450	R	417	430	
4R85-2	1993-12-16 0(	844116.125	1141016	4752.279785	500	I	465	471	
4R86-1	1993-07-27 0(	844136.125	1140978	4755.720215	520	R	472	483	
4R87-1	1993-07-23 0(	844100.3125	1140917	4755.040039	520	I	459	466	
4R88-1	1993-07-29 0(	844124	1140879	4760.700195	520	I	447	451	
4R95-2	1993-08-25 0(	844123.8125	1140575	4778.290039	540	I	475	483	
4R95-3	1994-01-05 0(	844144.1875	1140575	4780.850098	460	R	415	431	
4R96-1	1993-04-28 0(	844135.1875	1140535	4781.799805	520	I	421	431	
4RM-07	1986-09-02 0(	844091.3125	1140850	4757.200195	480	I	457	485	
4S102-1	1993-08-05 0(	844227	1140278	4817.47998	560	R	522	548	
4S104-2	1993-06-09 0(	844227.5	1140191	4801.720215	560	R	511	520	
4S104-3	1994-01-04 0(	844263	1140195	4808	560	R	459	464	
4S104-4	1994-01-24 0(	844260.8125	1140190	4793.379883	490	R	435	445	
4S106-2	1994-01-05 0(	844257	1140110	4789.970215	560	R	418	461	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4S108-1	1993-08-09 0(	844227.375	1140024	4784.669922	560	I	437	450	
4S109-1	1993-08-26 0(	844210.625	1139982	4783.390137	540	I	444	449	
4S110-1	1993-08-19 0(	844224.125	1139940	4779.930176	540	R	471	476	
4S112-1	1993-08-16 0(	844227.375	1139854	4776.990234	540	R	468	480	
4S77-2	1993-12-21 0(	844155.125	1141343	4734.410156	420	I	391	401	
4S78-1	1993-07-23 0(	844211	1141301	4741.890137	420	R	396	401	
4S79-1	1993-07-21 0(	844184.3125	1141258	4741.77002	460	I	393	405	
4S79-2	1993-12-14 0(	844184.125	1141263	4741.319824	370	I	341	347	
4S80-1	1993-07-23 0(	844230.875	1141217	4747.959961	480	R	403	410	
4S81-1	1993-07-26 0(	844214	1141174	4748.540039	460	I	408	414	
4S81-2	1993-12-15 0(	844169.8125	1141184	4744.870117	360	I	340	349	
4S83-4	1994-02-04 0(	844225.875	1141072	4757.549805	460	I	418	422	
4S84-1	1993-07-22 0(	844225.3125	1141044	4758.509766	500	R	425	428	
4S85-1	1993-07-22 0(	844185.6875	1141001	4757.040039	500	I	444	457	
4S86-1	1993-07-23 0(	844226.125	1140959	4765.759766	520	R	432	435	
4S87-1	1993-07-23 0(	844184	1140915	4763.859863	520	I	482	494	
4S88-1	1993-07-27 0(	844229.625	1140877	4771.790039	500	R	440	445	
4S89-2	1994-01-10 0(	844185.875	1140860	4767.549805	520	I	487	492	
4S92-2	1993-08-17 0(	844256.875	1140704	4783.830078	540	R	459	464	
4S93-2	1994-02-15 0(	844194	1140653	4780.209961	500	I	427	431	
4S94-1	1993-07-28 0(	844226.375	1140621	4785.910156	540	R	433	449	
4S94-2	1993-08-31 0(	844190.1875	1140622	4780.640137	540	I	468	480	
4S94-3	1994-01-11 0(	844265.6875	1140621	4789.450195	540	R	489	499	
4S95-1	1993-07-28 0(	844195.625	1140577	4784.439941	540	I	477	484	
4S95-2	1994-01-07 0(	844189.875	1140577	4784.129883	450	I	420	430	
4S96-1	1993-07-29 0(	844226.8125	1140533	4791.740234	540	R	433	438	
4S96-2	1994-01-12 0(	844261.125	1140532	4795.890137	540	R	518	527	
4S97-1	1993-07-29 0(	844195.3125	1140492	4791.259766	560	I	480	484	
4S98-1	1993-07-29 0(	844226.8125	1140450	4800.490234	560	I	495	498	
4S98-2	1994-01-19 0(	844212.6875	1140451	4799.359863	480	R	441	447	
4S99-2	1994-01-04 0(	844217.375	1140402	4803.850098	550	I	495	501	
4S99-3	1994-03-07 0(	844181	1140407	4796.990234	480	I	433	440	
4SM-1	1993-12-17 0(	844296	1139797	4767.029785	260	SM	223	253	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4SM-4	1993-11-08 0(	843897	1141720	4704.200195	210	SM	193	202	
4SM-8	1993-11-05 0(	843758.375	1142903	4713.240234	230	SM	217	223	
4SRM-07		844090.625	1140871	4755.600098	1	SM	263	283	
4T101-1	1993-08-03 0(	844280.3125	1140321	4817.580078	560	I	464	481	
4T103-1	1993-08-04 0(	844270.1875	1140238	4805.029785	560	I	461	478	
4T103-2	1993-08-24 0(	844230	1140238	4811.600098	570	I	517	530	
4T104-1	1993-08-04 0(	844312.875	1140195	4793.850098	560	I	476	487	
4T105-1	1993-08-04 0(	844270.375	1140151	4792.330078	560	I	454	467	
4T105-2	1993-08-26 0(	844244.5	1140152	4794.709961	560	I	429	444	
4T106-1	1993-08-05 0(	844313.3125	1140109	4783.97998	560	R	378	384	
4T106-2	1993-08-18 0(	844287.375	1140109	4786.290039	540	R	407	417	
4T107-3	1994-01-07 0(	844303.6875	1140065	4781.060059	540	I	479	500	
4T107-4	1994-02-09 0(	844246.375	1140067	4786.310059	500	I	420	425	
4T108-1	1993-08-10 0(	844312	1140024	4777.669922	560	R	490	502	
4T109-1	1993-08-16 0(	844269.875	1139982	4778.029785	540	R	440	445	
4T110-1	1993-08-12 0(	844312	1139940	4772.620117	540	BL	406	418	
4T111-1	1993-08-12 0(	844271	1139898	4774.22998	540	I	460	467	
4T112-1	1993-08-10 0(	844312.375	1139855	4768.370117	540	R	478	491	
4T113-1	1993-08-11 0(	844270	1139812	4770.029785	540	I	446	449	
4T114-1	1993-04-28 0(	844312.5	1139770	4764.5	520	R	431	443	
4T115-1	1993-08-12 0(	844270	1139728	4766.22998	540	I	448	458	
4T79-1	1993-12-10 0(	844235.875	1141256	4744.040039	440	I	338	347	
4T81-1	1993-08-30 0(	844255.625	1141156	4755.439941	440	I	348	359	
4T82-1	1993-07-22 0(	844312.6875	1141129	4764.879883	500	R	451	460	
4T83-3	1993-12-14 0(	844294.3125	1141086	4765.370117	480	I	449	464	
4T84-1	1993-07-23 0(	844313.375	1141046	4772.109863	500	I	457	471	
4T85-1	1993-07-22 0(	844268.3125	1141001	4767.72998	500	I	429	431	
4T86-1	1993-04-29 0(	844310.1875	1140976	4776.700195	520	R	452	461	
4T87-1	1993-07-23 0(	844269.8125	1140916	4773.669922	520	I	448	452	
4T88-1	1993-07-28 0(	844312.8125	1140873	4783.839844	520	R	475	484	
4T89-1	1993-07-26 0(	844270.1875	1140832	4780.27002	520	I	444	466	
4T90-1	1993-07-28 0(	844312.125	1140789	4790	520	R	465	469	
4T91-1	1993-07-28 0(	844270.375	1140746	4784.740234	520	I	454	467	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4T92-1	1993-04-28 0(	844312.625	1140705	4793.200195	520	R	470	474	
4T93-1	1993-07-28 0(	844270.1875	1140662	4787.660156	540	I	488	496	
4T94-2	1993-12-29 0(	844343.375	1140618	4800.25	500	R	480	487	
4T95-1	1993-07-28 0(	844269.875	1140576	4793.620117	541	I	481	499	
4T96-2	1994-01-21 0(	844285.875	1140532	4801.379883	540	R	449	454	
4T97-1	1993-07-29 0(	844270.3125	1140492	4800.180176	560	I	496	502	
4T97-2	1994-01-11 0(	844264.5	1140492	4800.490234	480	I	443	454	
4T98-1	1993-07-29 0(	844314.1875	1140449	4810.049805	560	R	455	464	
4T99-1	1993-08-03 0(	844269.875	1140407	4810.560059	560	I	487	490	
4U103-2	1993-08-24 0(	844315.375	1140238	4798.839844	520	R	479	491	
4U107-1	1993-08-10 0(	844355.375	1140067	4776.410156	560	I	370	379	
4U108-1	1993-08-16 0(	844397.375	1140024	4770.240234	560	R	361	368	
4U109-2	1993-08-18 0(	844335.625	1139982	4773.52002	540	I	503	508	
4U110-1	1993-05-03 0(	844397.875	1139936	4766.600098	440	I	387	396	
4U111-2	1993-08-25 0(	844315.6875	1139898	4770.319824	540	I	403	410	
4U115-1	1993-08-17 0(	844354.8125	1139727	4759.140137	520	I	468	473	
4U116-2	1993-08-26 0(	844373.875	1139685	4756.580078	520	R	455	459	
4U117-2	1994-01-28 0(	844386.625	1139641	4754.640137	520	I	462	482	
4U81-2	1994-02-11 0(	844332	1141159	4765.089844	480	I	458	467	
4U83-1	1993-07-29 0(	844352.875	1141087	4774.959961	500	I	470	480	
4U85-1	1993-07-22 0(	844355.5	1141003	4784.009766	520	I	472	485	
4U89-2	1994-01-04 0(	844314.875	1140834	4788.100098	520	I	477	482	
4U91-2	1993-12-30 0(	844326.875	1140746	4795.189941	520	I	474	484	
4U93-2	1993-12-28 0(	844322.8125	1140662	4796.02002	540	I	486	492	
4U97-2	1993-12-22 0(	844329.375	1140492	4810.839844	520	I	495	503	
4V102-1	1993-08-02 0(	844483.3125	1140280	4784.890137	440	R	391	397	
4V104-1	1993-08-09 0(	844483.8125	1140193	4775.899902	460	R	382	394	
4V105-1	1993-08-10 0(	844440.125	1140151	4776.029785	460	I	371	391	
4V107-1	1993-08-18 0(	844440.125	1140067	4769.029785	440	I	378	385	
4V109-2	1993-08-25 0(	844440.5	1140004	4765.649902	420	I	357	392	
4W101-1	1993-08-02 0(	844515.875	1140322	4785.720215	420	R	389	402	
4W102-1	1993-08-04 0(	844567.875	1140279	4777.75	460	I	378	394	
4W103-1	1993-08-09 0(	844525.625	1140236	4775.939941	460	I	382	393	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
4W106-1	1993-08-09 0(	844566.875	1140109	4763.540039	460	R	367	378	
4W107-2	1993-08-30 0(	844551.1875	1140067	4761.669922	440	I	365	374	
4W108-1	1993-08-09 0(	844567.5	1140024	4758.290039	460	I	363	381	
4X103-1	1993-08-03 0(	844610.375	1140236	4770.700195	460	R	381	391	
4X107-1	1993-08-09 0(	844609.625	1140067	4758.060059	460	I	366	379	
5AB70-1	1998-05-18 0(	848117.8125	1138141	4793.529785	520	PT			
5AB76-1	1994-11-16 0(	848137.3125	1138410	4794.109863	520	I	468	478	
5AC74-1	1994-11-17 0(	848222.625	1138324	4799.52002	520	R	475	484	
5AC75-1	1994-11-17 0(	848179.8125	1138367	4796.649902	520	R	462	481	
5AC77-1	1998-05-18 0(	848166.375	1138485	4797.319824	520	PT			
5AD73-1	1994-11-16 0(	848264.625	1138281	4803.109863	520	R	479	485	
5AD75-1	1994-11-16 0(	848264.125	1138366	4801.75	520	I	475	487	
5AD77-1	1994-12-16 0(	848318.375	1138441	4794.379883	520	R	463	473	
5AD79-1	1994-11-18 0(	848297.125	1138536	4789.990234	520	I	469	474	
5AD80-1	1994-11-17 0(	848307.8125	1138581	4786.049805	520	I	466	473	
5AD81-2	1994-12-06 0(	848294.875	1138623	4785.109863	520	I	464	472	
5AD82-1	1994-11-21 0(	848307.3125	1138665	4783.850098	520	I	450	466	
5AE67-1	1994-12-16 0(	848345.375	1138025	4805.660156	520	R	470	483	
5AE69-2	1998-05-13 0(	848328.5	1138131	4804.839844	520	I	447	464	
5AE72-2	1998-05-13 0(	848368.6875	1138229	4799.129883	520	R	450	462	
5AE74-2	1998-05-14 0(	848362.625	1138334	4794.660156	520	I	443	460	
5AE80-1	1994-07-14 0(	848392	1138580	4778.370117	500	R	440	462	
5AE81-1	1994-11-21 0(	848350	1138623	4780.689941	520	R	460	465	
5AE83-1	1994-12-06 0(	848349.125	1138706	4780.100098	520	I	457	468	
5AF65-1	1994-12-15 0(	848435.125	1137938	4808.560059	520	R	455	474	
5AF66-1	1994-12-07 0(	848479.3125	1137984	4812.470215	520	I	462	477	
5AF67-1	1994-12-14 0(	848435.5	1138024	4811.560059	520	I	458	482	
5AF68-1	1994-12-07 0(	848477.5	1138069	4811.629883	520	R	460	471	
5AF69-1	1994-11-30 0(	848431.6875	1138112	4808.919922	520	I	462	474	
5AF70-2	1995-01-26 0(	848476.5	1138157	4803.640137	520	I	482	488	
5AF72-1	1994-11-29 0(	848479.125	1138239	4791.540039	520	R	462	476	
5AF73-1	1995-01-13 0(	848465.5	1138262	4789.109863	480	R	455	472	
5AF74-1	1994-11-23 0(	848478.875	1138324	4784.450195	520	I	447	465	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5AF75-2	1994-12-30 0(	848429.6875	1138365	4785.669922	500	R	448	469	
5AF81-1	1994-12-13 0(	848430.625	1138624	4773.890137	520	I	438	456	
5AG60-1	1994-12-15 0(	848564.8125	1137730	4814.930176	520	I	460	495	
5AG63-1	1995-01-10 0(	848519.6875	1137857	4811.439941	520	BL	454	479	
5AG64-1	1994-12-08 0(	848563.125	1137900	4810.100098	520	R	449	476	
5AG65-1	1994-12-08 0(	848520.1875	1137942	4812.660156	520	I	461	482	
5AG66-1	1994-12-07 0(	848564	1137985	4807.52002	520	R	451	463	
5AG68-1	1994-06-06 0(	848562.625	1138070	4801.759766	520	R	451	459	
5AG69-1	1994-12-08 0(	848520.625	1138112	4808.049805	520	I	459	468	
5AG70-1	1994-12-07 0(	848560.375	1138151	4793.779785	520	R	445	456	
5AG71-2	1994-12-15 0(	848556.8125	1138195	4788.819824	520	I	443	450	
5AG73-1	1994-11-29 0(	848519.625	1138282	4785.740234	520	I	450	465	
5AG75-1	1994-11-28 0(	848519.8125	1138368	4779.509766	520	I	440	457	
5AH56-2	1995-01-04 0(	848670.875	1137559	4825.77002	520	I	466	486	
5AH57-1	1995-01-04 0(	848654.3125	1137601	4822.140137	520	I	467	485	
5AH60-1	1994-12-08 0(	848647.6875	1137730	4815.359863	520	I	459	475	
5AH61-3	1995-01-05 0(	848635	1137770	4813.419922	520	R	457	475	
5AH62-1	1994-12-08 0(	848648.3125	1137813	4805.359863	520	I	448	477	
5AH65-1	1994-12-08 0(	848605.125	1137943	4804.509766	520	I	468	487	
5AH67-1	1994-12-07 0(	848603.625	1138027	4800.240234	520	I	450	456	
5AI55-3	1995-01-17 0(	848710.8125	1137517	4829.359863	520	I	470	484	
5AI58-1	1995-01-18 0(	848735.5	1137645	4817.390137	520	I	476	486	
5AI59-3	1994-12-20 0(	848716.125	1137685	4814.299805	520	I	473	488	
5AI60-1	1994-12-22 0(	848735.125	1137726	4805.620117	500	R	466	476	
5AI62-1	1994-12-19 0(	848731.875	1137814	4800.569824	520	R	457	473	
5AJ56-1	1995-01-23 0(	848817.375	1137582	4812.919922	500	R	449	460	
5AJ57-1	1995-01-12 0(	848773.8125	1137602	4817.049805	520	R	452	461	
5AJ58-1	1995-01-05 0(	848818.125	1137642	4806.779785	520	I	448	461	
5AJ59-1	1995-01-16 0(	848778.375	1137689	4806.609863	500	R	446	460	
5AJ60-1	1995-01-04 0(	848818.875	1137727	4801.759766	500	I	442	457	
5AJ61-1	1994-12-22 0(	848774.875	1137771	4799.660156	500	I	443	450	
5AJ63-1	1995-01-04 0(	848762.875	1137849	4794.259766	500	I	451	466	
5AK58-1	1995-01-19 0(	848902.8125	1137644	4801.02002	500	I	459	470	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5AK59-1	1995-01-04 0(	848859.625	1137687	4801.419922	500	I	438	453	
5AK60-1	1995-01-11 0(	848881.125	1137728	4796.669922	480	R	433	449	
5AK61-1	1994-12-29 0(	848858.875	1137771	4795.279785	500	I	437	448	
5AK62-2	1995-01-09 0(	848876.625	1137816	4790.140137	480	I	435	448	
5AK64-2	1994-12-28 0(	848879.3125	1137898	4785.549805	480	I	431	442	
5AK66-2	1995-01-17 0(	848879.625	1137984	4779.77002	480	I	425	432	
5AK68-2	1995-01-17 0(	848927.8125	1138068	4774.370117	480	I	422	432	
5AL63-1	1995-01-16 0(	848907.125	1137859	4784.490234	500	R	431	444	
5AL66-1	1994-06-06 0(	848988.3125	1137985	4774.870117	480	R	426	430	
5AL68-1	1995-01-12 0(	848987.375	1138069	4771.439941	480	I	418	428	
5AL69-1	1995-01-05 0(	848944.875	1138111	4771.720215	480	R	418	427	
5AL70-1	1995-01-05 0(	848987.625	1138154	4768.370117	480	I	415	423	
5AM67-1	1995-01-18 0(	849030.3125	1138027	4771.450195	480	I	409	428	
5AM70-1	1995-01-19 0(	849072.8125	1138154	4764.299805	480	R	409	418	1
5AM71-1	1995-01-09 0(	849029.8125	1138197	4764.370117	480	R	405	420	
5AM72-3	1995-04-04 0(	849049.375	1138247	4760.700195	460	I	408	424	
5AM75-1	1995-01-11 0(	849029.8125	1138367	4756.609863	480	I	410	419	
5AM76-1	1995-01-10 0(	849071.1875	1138409	4753.819824	460	R	405	420	
5AM78-2	1994-06-21 0(	849074.8125	1138490	4750.439941	460	R	399	411	
5AM79-2	1995-02-07 0(	849013.625	1138531	4746.069824	540	I	398	407	
5AM80-1	1995-01-18 0(	849078.8125	1138573	4746.140137	460	R	399	411	
5AM81-2	1995-01-19 0(	849032.6875	1138625	4740.439941	460	I	392	405	
5AN69-1	1995-01-18 0(	849114.3125	1138112	4764.779785	480	I	393	400	1
5AN70-1	1995-02-09 0(	849157	1138155	4761.75	480	R	387	394	0
5AN72-1	1995-02-21 0(	849157	1138241	4757.390137	480	R	386	401	
5AN77-1	1995-01-11 0(	849114.1875	1138452	4750.350098	460	R	394	399	
5AN78-1	1995-02-06 0(	849155.875	1138495	4745.720215	460	I	397	404	1
5AN79-1	1995-01-16 0(	849114.625	1138537	4747.740234	460	I	399	408	
5AO56-1	1995-03-21 0(	849289.3125	1137557	4786.040039	480	I	408	431	1
5AO58-1	1995-02-21 0(	849242.625	1137647	4783.890137	480	I	397	405	
5AO60-1	1995-02-08 0(	849241.875	1137729	4780.850098	480	BL	405	415	1
5AO66-1	1995-02-22 0(	849241.625	1137983	4768.680176	460	R	390	403	1
5AO67-1	1995-02-21 0(	849200	1138027	4767.5	480	I	389	400	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5AO69-1	1995-02-07 0(	849200.3125	1138113	4763.990234	480	R	390	412	
5AO71-3	1995-05-31 0(	849204.3125	1138190	4759.910156	440	R	387	405	1
5AO72-1	1995-02-07 0(	849241	1138239	4757.939941	480	R	383	409	1
5AO74-1	1994-07-15 0(	849242.125	1138316	4752.529785	460	R	384	401	1
5AO76-1	1995-02-06 0(	849241.375	1138411	4747.680176	460	R	390	403	1
5AO78-1	1995-02-07 0(	849242.125	1138495	4742.290039	460	R	386	402	1
5AO79-1	1995-02-06 0(	849200.625	1138538	4741.910156	460	R	397	403	1
5AP49-1	1995-06-30 0(	849305.8125	1137262	4805.740234	500	I	450	470	1
5AP51-1	1995-06-01 0(	849315.875	1137349	4799.240234	480	I	425	435	1
5AP52-1	1995-02-23 0(	849327.375	1137389	4796.439941	480	R	411	430	1
5AP54-1	1994-06-10 0(	849316.375	1137473	4790.649902	480	R	446	462	1
5AP55-2	1995-02-27 0(	849300.625	1137506	4789.27002	480	I	413	421	
5AP56-2	1995-02-23 0(	849347.3125	1137560	4785.399902	480	R	439	451	1
5AP58-2	1995-06-01 0(	849326.8125	1137639	4775.75	460	R	432	442	1
5AP59-1	1995-02-08 0(	849284.8125	1137686	4781.899902	480	R	405	415	1
5AP60-1	1995-02-09 0(	849326.875	1137732	4779.259766	480	R	439	454	1
5AP62-1	1995-02-22 0(	849326.375	1137813	4775.790039	480	R	431	444	1
5AP63-2	1995-02-22 0(	849300	1137857	4774.089844	460	I	423	428	
5AP64-1	1995-02-08 0(	849327.125	1137899	4772.47998	480	R	435	448	1
5AP69-1	1995-02-10 0(	849264.375	1138112	4763.080078	480	I	387	415	1
5AP71-1	1995-02-14 0(	849263	1138195	4759.850098	480	I	386	408	1
5AQ36-1	1995-06-26 0(	849424.125	1136719	4844.97998	520	R	487	492	
5AQ38-1	1995-06-21 0(	849417.8125	1136797	4833.290039	520	R	476	492	
5AQ40-1	1995-06-14 0(	849412	1136881	4822.870117	520	R	471	475	1
5AQ41-2	1995-06-14 0(	849401	1136926	4819.529785	540	I	467	475	1
5AQ45-2	1995-06-13 0(	849345.875	1137090	4815.109863	500	I	464	474	
5AQ46-2	1995-06-22 0(	849386.625	1137137	4808.779785	500	R	432	444	
5AQ47-1	1995-06-07 0(	849369.125	1137177	4808.129883	520	I	428	455	1
5AQ48-1	1995-06-06 0(	849414.125	1137219	4803.5	500	R	429	446	
5AQ52-1	1995-06-01 0(	849412.3125	1137391	4794.660156	480	R	420	428	
5AQ53-1	1995-02-17 0(	849369.875	1137432	4792.919922	480	I	435	456	1
5AQ54-1	1995-05-31 0(	849414.5	1137475	4789.700195	480	R	410	421	1
5AQ55-1	1995-02-17 0(	849370.125	1137517	4787.310059	480	I	440	457	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5AQ56-1	1995-05-31 0(	849411.875	1137561	4785.240234	480	R	404	415	1
5AQ58-1	1995-05-30 0(	849409.8125	1137647	4780.180176	480	R	406	412	1
5AQ59-1	1995-03-03 0(	849338.875	1137688	4774.970215	480	I	430	444	1
5AQ61-1	1995-02-15 0(	849369.6875	1137773	4776.25	480	I	431	453	0
5AQ65-1	1995-02-08 0(	849369.125	1137943	4770.180176	480	I	430	444	0
5AR36-1	1995-06-23 0(	849506	1136719	4831.339844	520	R	470	480	1
5AR37-1	1995-06-22 0(	849463.5	1136756	4832.359863	540	I	477	492	1
5AR38-1	1995-06-19 0(	849503.1875	1136797	4822.740234	540	R	455	462	1
5AR39-1	1995-06-16 0(	849458	1136839	4822.970215	540	I	465	489	0
5AR40-2	1995-06-22 0(	849473.3125	1136879	4816.930176	520	R	460	481	1
5AR41-2	1995-06-20 0(	849481.3125	1136926	4812.209961	520	I	454	464	1
5AR47-2	1995-06-16 0(	849425.3125	1137176	4804.569824	500	I	434	457	1
5AR49-1	1995-06-13 0(	849454.625	1137264	4797.109863	480	I	421	436	1
5AR50-1	1995-06-06 0(	849496.3125	1137304	4792.629883	480	R	420	447	1
5AR51-1	1995-06-06 0(	849452.375	1137346	4793.560059	520	I	422	428	
5AR52-1	1995-06-01 0(	849496.8125	1137389	4791.450195	480	R	420	426	1
5AR53-2	1995-06-15 0(	849457.1875	1137436	4791.25	480	I	417	453	1
5AR54-1	1995-06-02 0(	849496.8125	1137474	4788.5	480	R	414	418	1
5AR55-1	1995-06-01 0(	849455.1875	1137518	4787.080078	480	I	407	425	1
5AR56-1	1995-06-02 0(	849496.5	1137560	4783.879883	480	R	408	445	1
5AR57-1	1995-06-02 0(	849455.125	1137601	4782.439941	480	I	429	447	1
5AR58-1	1995-06-02 0(	849497.375	1137642	4780.22998	480	R	405	416	1
5AR59-1	1995-06-05 0(	849458.625	1137688	4777.5	480	I	406	414	1
5AS37-1	1995-06-20 0(	849539.5	1136751	4822.930176	540	I	458	466	1
5AS39-1	1995-06-19 0(	849541.375	1136837	4815.430176	520	I	451	463	
5AS46-2	1995-06-21 0(	849642.8125	1136943	4802.620117	520	I	448	481	
5AS48-1	1995-06-16 0(	849601.6875	1137064	4800.910156	500	R	436	445	
5AS49-1	1995-06-07 0(	849538.8125	1137261	4790.299805	480	I	440	453	1
5AS50-1	1995-06-19 0(	849600.8125	1137180	4791.189941	500	I	422	438	
5AS51-1	1995-06-07 0(	849540.125	1137347	4788.970215	480	I	419	434	1
5AS52-1	1995-06-19 0(	849600.8125	1137302	4789.089844	480	R	443	450	
5AS53-2	1995-06-12 0(	849519.375	1137432	4789.299805	480	I	415	423	1
5AS55-1	1995-06-05 0(	849540.375	1137518	4784.950195	480	I	415	445	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5AS57-1	1995-06-06 0(	849540	1137602	4781.399902	480	I	410	420	
5AT43-1	1995-07-18 0(	849659.375	1136761	4810.410156	500	I	473	482	
5AT44-2	1995-07-12 0(	849668.875	1136826	4806.830078	500	R	458	469	
5AT45-1	1995-06-27 0(	849660.375	1136886	4804.430176	500	I	448	475	
5AT46-1	1995-06-30 0(	849724.625	1136947	4800.589844	500	R	434	444	
5AT47-1	1995-06-19 0(	849660.375	1137002	4800.029785	520	I	442	479	
5AT48-1	1995-06-23 0(	849721.5	1137060	4795.25	480	I	449	459	
5AT49-3	1995-08-31 0(	849665.3125	1137118	4794.830078	480	I	425	440	
5AT50-1	1995-06-30 0(	849719.125	1137185	4791.290039	480	R	440	459	
5AT52-1	1995-06-21 0(	849718.8125	1137302	4786.970215	480	R	444	457	
5AT56-1	1995-07-26 0(	849721.125	1137542	4778.720215	480	R	433	443	
5AU47-2	1995-07-06 0(	849743.125	1137002	4798.359863	480	I	426	440	
5AU50-1	1995-07-10 0(	849840.3125	1137183	4785.529785	480	I	447	453	
5AU51-1	1995-06-29 0(	849781.125	1137244	4787.549805	480	I	435	442	
5AU53-1	1995-06-27 0(	849780.125	1137362	4782.509766	480	I	441	451	
5AU54-1	1995-07-27 0(	849837.8125	1137417	4774.870117	475	R	432	444	
5AU55-1	1995-07-21 0(	849781.1875	1137482	4778.609863	480	I	430	451	
5AU57-1	1995-08-02 0(	849778.8125	1137605	4774.080078	480	I	417	444	
5AU58-1	1995-08-10 0(	849840.125	1137668	4742.859863	460	R	389	410	
5AV46-1	1995-07-13 0(	849958.5	1136941	4803.899902	500	R	444	460	
5AV53-1	1995-07-10 0(	849899.3125	1137363	4780.27002	480	I	436	446	
5AV54-1	1995-07-11 0(	849960.8125	1137424	4795.100098	480	BL	443	451	
5AV55-1	1995-07-18 0(	849900.6875	1137483	4777.939941	480	BL	438	445	
5AW45-1	1995-07-19 0(	849993	1136881	4807.649902	500	I	447	465	
5AW47-1	1995-07-13 0(	850022.125	1137001	4805.060059	500	I	443	456	
5AW51-1	1995-07-07 0(	850019.625	1137242	4794.47998	480	I	444	460	
5AW52-1	1995-07-17 0(	850066.3125	1137304	4795.529785	500	R	446	461	
5AW53-1	1995-07-11 0(	850020.3125	1137363	4790.689941	480	I	439	454	
5AW54-2	1995-07-24 0(	850053.875	1137422	4792.799805	480	I	447	460	
5AW55-1	1995-07-17 0(	850021.3125	1137482	4788.430176	480	I	445	462	
5BA40-1	1995-04-07 0(	850262.8125	1136881	4835.930176	540	R	445	475	
5BA46-1	1995-03-01 0(	850262.125	1137133	4828.700195	520	R	464	499	
5BA48-1	1994-06-07 0(	850262.3125	1137219	4823.459961	540	R	466	491	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5BA50-1	1995-04-11 0(	850261.875	1137305	4819.200195	520	R	458	481	
5BA51-2	1995-05-30 0(	850236.875	1137348	4811.5	500	I	456	470	
5BB38-1	1995-03-28 0(	850349.875	1136793	4844.290039	520	R	454	484	
5BB39-1	1995-04-03 0(	850305.625	1136838	4842.200195	520	R	473	477	
5BB41-1	1995-04-11 0(	850309.6875	1136927	4840.879883	540	I	457	470	
5BB43-1	1995-04-11 0(	850296.375	1137007	4835.640137	540	I	465	469	
5BB45-2	1995-06-19 0(	850276.375	1137088	4830.549805	500	BL	464	484	
5BB47-2	1995-03-07 0(	850285.375	1137174	4829.200195	520	I	463	496	
5BB49-1	1995-02-24 0(	850304.1875	1137262	4826.470215	520	I	472	496	
5BB51-1	1995-06-02 0(	850284.3125	1137347	4817.140137	500	I	463	480	
5BC36-1	1995-04-13 0(	850433.3125	1136710	4841.47998	520	R	460	485	
5BC37-2	1995-08-01 0(	850396.3125	1136751	4843.830078	520	I	455	473	
5BC38-1	1995-04-03 0(	850432.125	1136794	4847.220215	520	R	462	477	
5BC39-1	1995-03-28 0(	850389.3125	1136835	4849.52002	520	I	456	488	
5BC40-1	1995-03-28 0(	850432.125	1136880	4852.669922	560	R	467	498	
5BC42-1	1995-04-04 0(	850446.625	1136960	4855.459961	540	R	471	523	
5BC44-2	1995-05-03 0(	850454.3125	1137048	4856.439941	540	R	469	481	
5BC46-1	1995-03-09 0(	850430.8125	1137133	4848.629883	560	I	460	466	
5BC48-1	1995-03-07 0(	850425.375	1137216	4838.27002	560	I	493	513	
5BC49-1	1995-03-01 0(	850390.125	1137261	4832.549805	560	I	494	511	
5BC50-1	1995-02-23 0(	850432.8125	1137304	4833.459961	560	R	492	518	
5BC52-1	1995-02-24 0(	850431.125	1137389	4832.350098	560	R	497	524	
5BC53-2	1995-08-02 0(	850388.625	1137429	4827.549805	560	I	488	521	
5BD35-2	1995-05-16 0(	850449.125	1136667	4837.350098	520	I	450	480	
5BD37-1	1995-04-07 0(	850475	1136752	4840.419922	520	I	452	460	
5BD38-1	1995-04-03 0(	850517.875	1136794	4837.779785	520	R	442	450	
5BD39-1	1995-03-27 0(	850475.1875	1136837	4845.299805	540	I	453	461	
5BD40-2	1995-04-04 0(	850492.125	1136881	4846.470215	540	R	460	465	
5BD41-1	1995-03-14 0(	850474.6875	1136923	4850.839844	540	I	466	510	
5BD43-1	1995-03-09 0(	850476.125	1137006	4856.339844	540	I	472	491	
5BD45-3	1995-05-18 0(	850495.375	1137090	4857.25	540	R	464	472	
5BD46-1	1995-02-28 0(	850517.875	1137134	4854.950195	580	R	460	466	
5BD47-1	1995-02-28 0(	850474.1875	1137175	4847.149902	580	I	496	516	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5BD49-1	1995-02-23 0(	850473.8125	1137262	4840.569824	560	I	501	510	
5BD50-1	1994-06-08 0(	850518.625	1137305	4846.120117	560	R	512	533	
5BD52-2	1995-07-14 0(	850518	1137382	4844.25	560	I	448	470	
5BD53-2	1995-07-19 0(	850478.6875	1137429	4838.72998	560	R	449	458	
5BE47-2	1995-08-03 0(	850555	1137177	4857.029785	560	I	509	527	
5BE48-1	1995-03-03 0(	850601.875	1137220	4856.47998	560	R	461	472	
5BE50-1	1995-02-24 0(	850601.875	1137304	4856.790039	580	I	461	479	
5BE52-1	1995-02-28 0(	850604.1875	1137388	4857.930176	580	R	460	471	
5BE53-2	1995-07-13 0(	850560.625	1137442	4847.649902	580	I	453	462	
5BF46-2	1995-03-14 0(	850711.875	1137139	4838.970215	520	R	441	479	
5BF47-1	1995-03-06 0(	850643.125	1137177	4851.109863	580	I	456	465	
5BF48-2	1995-09-26 0(	850693.125	1137218	4841.970215	540	I	447	457	
5BF50-2	1995-08-04 0(	850681.875	1137304	4840.930176	560	I	509	516	
5BF52-2	1995-04-13 0(	850703.6875	1137377	4846.899902	540	I	499	515	
5BG45-2	1995-03-23 0(	850701.875	1137093	4839.609863	540	I	451	481	
5BG46-1	1994-06-10 0(	850773.125	1137135	4826.629883	520	R	429	454	
5BG48-2	1995-08-02 0(	850775.1875	1137224	4826.549805	481	I	425	444	
5BG50-1	1995-04-03 0(	850773.375	1137304	4829.279785	540	R	495	500	
5BG52-1	1995-03-09 0(	850772	1137386	4837.160156	540	I	478	499	
5BG65-1	1995-08-14 0(	850732.375	1137943	4766.720215	440	I	406	421	
5BG67-1	1995-08-17 0(	850732.625	1138034	4731.02002	440	R	368	384	
5BH42-1	1995-03-27 0(	850858.3125	1136965	4813.779785	480	I	415	441	
5BH44-1	1995-03-24 0(	850815	1137047	4818.290039	480	R	418	448	
5BH45-1	1995-03-08 0(	850814.875	1137091	4819.279785	540	I	421	452	
5BH47-1	1995-03-08 0(	850816.625	1137177	4820.609863	540	I	419	454	
5BH51-1	1995-03-15 0(	850815.875	1137347	4826.819824	540	R	466	475	
5BH53-1	1995-03-09 0(	850815.625	1137434	4832.569824	540	I	485	497	
5BH54-1	1995-04-05 0(	850852.1875	1137472	4825.02002	520	R	486	495	
5BH55-2	1995-04-12 0(	850840.8125	1137526	4827.569824	520	I	458	466	
5BH56-1	1995-04-05 0(	850857.125	1137560	4823.689941	520	R	446	463	
5BH57-1	1995-04-25 0(	850800.1875	1137604	4833.560059	520	I	474	482	
5BH58-2	1994-06-17 0(	850862.625	1137646	4823.410156	520	R	471	488	
5BH59-2	1995-05-17 0(	850804	1137715	4830.259766	520	R	475	504	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5BH65-1	1995-08-08 0(	850791.6875	1137938	4754.560059	440	R	372	381	
5BH66-1	1995-08-15 0(	850839.8125	1137984	4728.109863	460	I	351	362	
5BI43-1	1995-03-31 0(	850900.8125	1137007	4809.720215	500	R	409	422	
5BI57-2	1995-04-13 0(	850873.875	1137604	4818.299805	500	I	437	485	
5BI59-1	1995-04-05 0(	850897.3125	1137690	4818.259766	520	I	462	477	
5BI62-1	1995-07-31 0(	850937.625	1137818	4802.060059	500	R	433	444	
5BI64-1	1995-07-25 0(	850938.5	1137895	4799.27002	480	I	435	453	
5BI65-1	1995-08-07 0(	850879.625	1137944	4760.180176	460	I	388	414	
5BI66-1	1995-08-18 0(	850952.125	1137982	4754.5	440	R	387	402	
5BJ46-2	1995-05-17 0(	851050.125	1137133	4799.089844	480	R	409	414	
5BJ48-1	1995-05-05 0(	851026.875	1137220	4801.890137	480	R	430	460	
5BJ49-1	1995-05-15 0(	850985.3125	1137263	4805.100098	480	I	429	450	
5BJ50-1	1995-05-04 0(	851027.625	1137305	4801.430176	480	R	423	461	
5BJ51-1	1995-05-12 0(	850999.8125	1137346	4803.439941	480	I	424	441	
5BJ52-1	1995-05-03 0(	851025.125	1137387	4800.970215	480	R	450	460	
5BJ54-1	1994-06-09 0(	851027.125	1137475	4800.910156	500	R	445	456	
5BJ55-1	1995-04-19 0(	850985	1137517	4805.060059	500	BL	451	465	
5BJ56-1	1995-04-20 0(	851028.875	1137561	4800.129883	500	R	445	455	
5BJ57-2	1995-05-02 0(	851014.875	1137602	4801.620117	480	I	440	456	
5BJ58-1	1995-05-18 0(	851027.625	1137648	4799.850098	480	R	437	451	
5BJ59-1	1995-05-11 0(	850985.375	1137687	4803.890137	500	I	448	456	
5BJ60-1	1995-05-17 0(	851026.875	1137731	4797.709961	480	R	431	450	
5BJ61-1	1995-05-18 0(	850980.625	1137776	4800.950195	480	I	422	440	
5BJ62-1	1994-06-15 0(	851027.875	1137815	4791.810059	460	R	418	441	
5BJ63-1	1995-05-11 0(	850977.8125	1137855	4789.540039	460	I	432	446	
5BJ64-1	1995-07-24 0(	851022.375	1137898	4765.959961	480	I	390	416	
5BJ65-1	1995-08-10 0(	850990.8125	1137939	4755.819824	460	I	377	398	
5BJ85-1	1996-09-09 0(	851011.125	1138801	4699.240234	310	I	245	263	
5BK39-1	1995-04-10 0(	851072.875	1136832	4748.609863	460	I	350	376	
5BK40-1	1995-04-11 0(	851120.375	1136870	4747.910156	460	R	347	360	
5BK41-1	1995-04-24 0(	851079.3125	1136921	4777.049805	460	I	379	385	
5BK42-1	1995-04-24 0(	851105.125	1136973	4775.930176	460	R	399	404	
5BK44-1	1995-05-16 0(	851054.125	1137061	4795.240234	460	R	425	443	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5BK45-1	1995-07-26 0(	851052.8125	1137094	4796.22998	480	I	435	445	
5BK47-1	1995-04-28 0(	851070.125	1137177	4798.47998	480	I	403	414	
5BK48-2	1995-05-17 0(	851086.8125	1137220	4797.149902	480	R	397	403	
5BK49-1	1995-04-27 0(	851071.125	1137261	4798.540039	480	I	460	465	
5BK50-1	1995-04-27 0(	851114	1137306	4794.620117	480	I	392	398	
5BK51-2	1995-05-15 0(	851102.1875	1137347	4794.549805	480	R	394	405	
5BK52-1	1995-04-25 0(	851113	1137390	4794.149902	480	R	405	426	
5BK53-1	1995-04-25 0(	851070.625	1137432	4797.350098	480	I	421	430	
5BK55-1	1995-04-20 0(	851071.1875	1137517	4796.799805	500	I	436	450	
5BK56-1	1995-05-12 0(	851107.875	1137553	4792.830078	480	R	428	444	
5BK57-2	1995-05-02 0(	851094.125	1137605	4793.959961	480	I	433	447	
5BK58-1	1994-06-09 0(	851112	1137645	4791.680176	480	R	426	439	
5BK59-1	1995-04-20 0(	851071	1137687	4793.950195	480	I	428	440	
5BK60-1	1995-04-28 0(	851111.875	1137729	4788.490234	460	R	417	431	
5BK61-1	1995-05-12 0(	851070.3125	1137773	4790.509766	480	I	420	443	
5BK62-1	1995-07-24 0(	851111.3125	1137821	4770.5	460	R	378	401	
5BK63-2	1995-08-10 0(	851110.875	1137857	4768.850098	440	I	366	379	
5BK64-2	1995-08-10 0(	851131	1137896	4758.259766	420	R	354	358	
5BK65-2	1995-08-31 0(	851102.1875	1137939	4747	420	I	364	372	
5BK66-1	1995-08-02 0(	851106.3125	1137979	4738.990234	400	I	356	366	
5BK68-1	1995-08-14 0(	851131.625	1138060	4719.640137	380	I	335	350	
5BK74-1	1995-09-05 0(	851116.625	1138319	4698.439941	360	R	282	325	
5BK75-3	1996-09-09 0(	851089.1875	1138363	4698.129883	360	I	270	305	
5BK77-1	1996-09-10 0(	851117.8125	1138458	4698.339844	310	I	225	280	
5BK81-1	1995-08-14 0(	851070	1138622	4699.419922	300	I	221	234	
5BK82-1	1994-07-21 0(	851107.375	1138662	4699.319824	300	R	224	233	
5BK83-1	1995-08-15 0(	851070.625	1138707	4699.990234	300	I	225	236	
5BK84-2	1996-09-05 0(	851107.5	1138763	4699.709961	310	R	225	260	
5BK87-4	1996-09-10 0(	851104.3125	1138865	4700.620117	300	R	250	268	
5BL53-1	1995-05-04 0(	851135.625	1137433	4792.049805	480	I	407	423	
5BL55-1	1995-05-02 0(	851135	1137515	4791.379883	480	I	428	440	
5BL59-1	1995-04-21 0(	851154.3125	1137687	4784.580078	480	I	418	437	
5BL64-1	1995-08-03 0(	851197.875	1137897	4758.220215	440	R	368	388	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5BL65-1	1995-08-03 0(	851152.6875	1137937	4750.25	440	I	361	374	
5BL66-1	1994-07-25 0(	851195.625	1137969	4740.209961	520	R	351	369	
5BL67-1	1995-07-25 0(	851155.375	1138026	4735.080078	420	R	348	365	
5BL68-1	1995-08-24 0(	851199	1138059	4717.640137	380	R	329	353	
5BL69-1	1995-08-04 0(	851149.875	1138109	4713.390137	480	I	328	346	
5BL72-1	1995-08-30 0(	851207.125	1138239	4703.990234	380	R	306	335	
5BL73-2	1995-09-12 0(	851131.8125	1138273	4699.25	360	I	303	319	
5BL74-1	1995-07-27 0(	851197.375	1138324	4699.529785	360	R	295	327	
5BL74-2	1996-09-10 0(	851179.1875	1138318	4699.399902	320	I	230	270	
5BL76-1	1994-07-21 0(	851199.5	1138416	4698.959961	360	R	232	250	
5BL76-2	1995-08-21 0(	851215.3125	1138412	4698.72998	360	R	296	331	
5BL83-1	1995-08-21 0(	851155.125	1138707	4699.649902	360	I	233	243	
5BM100-1	1995-08-29 0(	851284.8125	1139429	4745.890137	440	R	375	380	
5BM102-1	1995-09-13 0(	851282.375	1139515	4745.640137	420	R	379	395	
5BM103-1	1995-09-18 0(	851240.375	1139559	4744.709961	420	I	376	388	
5BM162-1	1995-10-17 0(	851305.875	1142066	4774.27002	460	I	420	434	
5BM164-1	1995-10-17 0(	851281.875	1142149	4775.189941	460	R	421	441	
5BM165-1	1995-10-31 0(	851240	1142170	4775.97998	460	R	423	438	
5BM63-1	1995-08-30 0(	851240.3125	1137857	4758.870117	440	I	384	390	
5BM64-1	1995-08-25 0(	851279.875	1137903	4735.459961	420	R	343	348	
5BM65-1	1995-05-24 0(	851237.8125	1137946	4737.450195	420	I	346	375	
5BM67-1	1995-05-24 0(	851238.8125	1138026	4718.77002	400	I	330	340	
5BM68-1	1995-07-25 0(	851282.3125	1138070	4704.259766	380	R	317	351	
5BM69-1	1995-05-19 0(	851239.625	1138111	4703.040039	380	I	322	346	
5BM70-1	1995-07-27 0(	851283.3125	1138157	4716.25	380	R	329	360	
5BM71-1	1995-08-25 0(	851247.6875	1138197	4712.549805	380	I	325	347	
5BM72-1	1995-07-27 0(	851282.8125	1138237	4715.290039	380	R	325	357	
5BM73-2	1995-08-10 0(	851228.3125	1138268	4713.040039	380	I	313	328	
5BM75-1	1995-08-04 0(	851239.375	1138367	4708.490234	350	I	324	345	
5BM75-2	1996-09-09 0(	851246.875	1138354	4710.660156	320	R	248	292	
5BM76-2	1995-08-21 0(	851251.125	1138409	4708.279785	380	R	330	345	
5BM77-1	1995-08-04 0(	851238.625	1138452	4701.02002	360	I	246	266	
5BM78-2	1995-08-22 0(	851251.8125	1138493	4699.029785	380	R	304	333	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5BM79-2	1995-08-18 0(	851270.8125	1138538	4705.220215	360	I	274	288	
5BM80-2	1995-08-24 0(	851307.625	1138579	4707.75	360	R	283	287	
5BM81-3	1995-08-28 0(	851266.125	1138604	4700.140137	360	I	277	288	
5BM96-1	1995-08-29 0(	851282.5	1139268	4747.240234	440	I	376	395	
5BM98-2	1995-08-31 0(	851264.375	1139346	4746.459961	420	R	369	388	
5BM99-2	1995-09-11 0(	851275.125	1139388	4746.02002	440	I	378	401	
5BN100-3	1995-10-09 0(	851380.1875	1139428	4747.220215	360	I	324	340	
5BN101-2	1995-09-11 0(	851281.8125	1139471	4745.669922	420	I	377	401	
5BN159-1	1995-10-12 0(	851324.625	1141938	4769.680176	460	I	415	424	
5BN160-1	1995-10-13 0(	851366.3125	1141980	4772.580078	460	R	419	431	
5BN162-2	1994-09-30 0(	851371.125	1142065	4775.450195	460	R	421	436	
5BN163-1	1995-10-10 0(	851325.125	1142107	4774.899902	460	I	421	435	
5BN65-1	1995-08-30 0(	851320.375	1137943	4726.759766	420	I	354	373	
5BN67-1	1995-07-28 0(	851324.875	1138027	4705.319824	400	I	317	323	
5BN69-2	1995-08-07 0(	851320.8125	1138094	4708.180176	400	I			
5BN71-1	1995-08-08 0(	851298.875	1138196	4716.009766	380	I	335	340	
5BN91-2	1995-09-15 0(	851344.5	1139045	4712.140137	380	I	345	366	
5BN92-1	1995-09-12 0(	851349.375	1139084	4731.490234	420	R	362	382	
5BN93-1	1995-08-24 0(	851327.8125	1139126	4735.899902	440	I	366	385	
5BN94-1	1994-07-19 0(	851367.8125	1139174	4746.359863	440	R	393	398	
5BN95-1	1995-08-23 0(	851324	1139217	4747.959961	440	I	365	394	
5BN97-1	1995-08-25 0(	851324.8125	1139301	4747.600098	440	R	370	388	
5BO101-2	1995-09-15 0(	851390.625	1139472	4747.390137	360	R	320	335	
5BO102-2	1995-11-08 0(	851413.5	1139512	4747.27002	360	I	314	325	
5BO103-2	1995-09-13 0(	851433.625	1139559	4746.390137	400	R	317	322	
5BO104-1	1995-09-25 0(	851417.6875	1139600	4745.009766	360	I	326	334	
5BO156-1	1995-10-18 0(	851452.875	1141808	4772.169922	460	R	415	435	
5BO157-1	1995-10-12 0(	851409	1141852	4770.97998	460	R	426	431	
5BO158-1	1995-10-13 0(	851481.3125	1141894	4779.180176	460	R	424	439	
5BO159-1	1995-10-16 0(	851409.6875	1141936	4773.890137	459	I	419	423	
5BO160-2	1995-11-16 0(	851464.375	1141972	4780.100098	460	I	430	446	
5BO161-1	1995-10-10 0(	851410	1142022	4775.609863	1	R	420	436	
5BO162-2	1995-10-13 0(	851427.125	1142063	4776.319824	460	I	425	442	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5BO163-1	1995-10-10 0(	851410.6875	1142106	4775.290039	460	I	425	440	
5BP118-1	1995-09-19 0(	851538.125	1140195	4758.560059	460	I	405	425	
5BP119-2	1995-11-16 0(	851499.3125	1140232	4758.240234	440	R	404	413	
5BP154-1	1995-10-17 0(	851537.1875	1141724	4777.350098	480	R	422	444	
5BP155-1	1995-11-06 0(	851495.375	1141765	4774.450195	480	BL	417	429	
5BP157-1	1995-10-13 0(	851494.625	1141852	4776.810059	480	I	420	441	
5BP159-1	1995-10-10 0(	851473.625	1141937	4780.810059	460	I	427	444	
5BQ117-1	1995-09-26 0(	851580.8125	1140151	4758.47998	440	R	391	418	
5BQ118-2	1995-10-11 0(	851646.8125	1140194	4761.870117	460	I	394	425	
5BQ153-1	1995-10-12 0(	851594.625	1141682	4783.279785	480	I	435	451	
5BQ155-1	1995-10-12 0(	851580.625	1141766	4781.049805	480	I	430	448	
5BQ158-1	1994-09-20 0(	851623.875	1141894	4787.209961	480	R	369	381	
5BR117-1	1995-10-11 0(	851664.875	1140153	4761.129883	460	BL	384	397	
5BR118-2	1995-09-14 0(	851707.375	1140210	4763.52002	460	R	390	396	
5BS117-1	1995-09-14 0(	851750.375	1140151	4762.779785	480	I	418	435	
5BS119-1	1995-09-15 0(	851665.3125	1140237	4763.149902	480	I	285	301	
5BS120-1	1994-09-20 0(	851792.375	1140279	4767.509766	500	R	286	292	
5BS121-1	1995-09-26 0(	851750.3125	1140324	4767.930176	480	I	313	325	
5BS132-1	1995-10-09 0(	851790.375	1140790	4778.080078	460	R	354	360	
5BS133-1	1995-10-03 0(	851749.6875	1140832	4777.839844	480	I	381	386	
5BS134-1	1995-10-06 0(	851792.8125	1140874	4780.700195	460	R	398	405	
5BT121-2	1995-10-19 0(	851835.1875	1140307	4769.97998	520	I	281	290	
5BT131-1	1995-10-02 0(	851835.625	1140748	4779.140137	480	I	365	368	
5BT135-1	1995-10-19 0(	851831.375	1140917	4783.069824	480	I	416	436	
5BT138-1	1994-09-20 0(	851877.5	1141045	4791.410156	500	R	359	365	
5BU133-1	1995-10-09 0(	851903.875	1140832	4784.890137	480	BL	429	437	
5BU148-1	1995-10-20 0(	851966.625	1141472	4848.810059	480	R	444	463	
5BU149-1	1995-10-10 0(	851922.8125	1141515	4831.97998	500	I	433	451	
5BV146-2	1995-10-20 0(	852044.875	1141394	4839.359863	500	I	431	443	
5BV147-1	1995-10-10 0(	852005.3125	1141427	4843.589844	520	R	429	443	
5BV148-1	1995-10-09 0(	852048.125	1141470	4853.029785	520	R	394	420	
5BV149-1	1995-10-20 0(	852027.3125	1141515	4855.029785	520	I	405	419	
5DM1A	1994-08-30 0(	848562.625	1138088	4801.390137	760	DM	705	741	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5DM2	1994-07-21 0(	850560.8125	1137378	4852.560059	760	DM	627	644	
5DM3	1994-07-25 0(	851079	1137765	4788.859863	670	DM	548	568	
5DM4	1994-08-22 0(	849318.125	1137944	4770.350098	720	DM	630	702	
5DM5	1994-08-25 0(	851351.125	1139312	4747.819824	640	DM	585	614	
5DM7	1994-11-12 0(	851386.125	1142040	4775.180176	700	DM	635	680	
5DM8T	1994-11-11 0(	851430.125	1139619	4746.299805	560	DM	492	496	
5DM9T	1995-08-15 0(	851796.375	1140018	4759.25	560	DM	515	530	
5MW1	1994-11-04 0(	852373.625	1140800	4800.290039	630	PM	340	599	
5MW10	1994-10-27 0(	851549.3125	1141278	4771.740234	590	PM	290	574	
5MW12	1994-10-28 0(	851129.8125	1141503	4750.009766	560	PM	270	540	
5MW14	1994-10-28 0(	850898.375	1141908	4755.930176	610	PM	275	574	
5MW16	1994-10-31 0(	851018.5	1142173	4775.399902	610	PM	302	593	
5MW18	1994-10-31 0(	851193.3125	1142402	4764.390137	620	PM	310	575	
5MW2	1994-10-10 0(	851199.1875	1140256	4747.580078	480	PM	260	462	
5MW20	1994-11-04 0(	851479.375	1142412	4764.930176	620	PM	300	588	
5MW3	1994-11-04 0(	852375.5	1141270	4823.870117	660	PM	346	643	
5MW30A	1994-07-05 0(	847957.875	1138618	4787.240234	540	PM	368	536	
5MW31	1994-08-10 0(	847825.875	1138383	4778.049805	560	PM	339	530	
5MW32A	1994-07-18 0(	848074.125	1138864	4793.839844	560	PM	365	547	
5MW33	1994-08-10 0(	847836	1137907	4791.72998	560	PM	345	543	
5MW34	1994-06-22 0(	848313.3125	1138986	4785.950195	560	PM	343	540	
5MW35A	1994-09-02 0(	848126.125	1137533	4812.47998	560	PM	366	547	
5MW36	1994-06-23 0(	848554.3125	1138865	4759.950195	540	PM	311	508	
5MW37	1994-08-11 0(	848360.3125	1137126	4811.160156	560	PM	368	551	
5MW38	2013-06-24 0(	848826.97	1138838.1	4738	520	PM	285	482	
5MW39A	1994-09-07 0(	848824.8125	1137077	4829.629883	580	PM	380	572	1
5MW4	1994-10-11 0(	851404.3125	1140454	4758.129883	500	PM	272	496	
5MW40	1994-06-27 0(	849084.625	1138915	4725.529785	520	PM	276	470	
5MW41A	1994-09-07 0(	848988.375	1136629	4831.490234	600	PM	388	574	
5MW42	1994-06-28 0(	849539.875	1138880	4708.819824	500	PM	253	443	
5MW43	1994-08-25 0(	849380.5	1136377	4862.77002	620	PM	416	602	
5MW44	1994-06-29 0(	849653.125	1138484	4731.100098	540	PM	272	462	
5MW45	1994-08-25 0(	849841.3125	1136370	4829.549805	630	PM	405	571	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5MW46	1994-06-30 0(	849836.625	1138039	4751.859863	520	PM	290	483	
5MW47B	1994-09-23 0(	850310.8125	1136280	4849.549805	600	PM	416	585	
5MW48	1994-07-11 0(	850256.3125	1137865	4785.52002	530	PM	286	513	
5MW49	1994-09-14 0(	850752.8125	1136506	4814.02002	560	PM	363	532	
5MW5	1994-11-11 0(	852167.8125	1141727	4840.589844	680	PM	367	678	
5MW50	1994-07-20 0(	850455.625	1138043	4718.689941	480	PM	247	438	
5MW51	1994-09-14 0(	851223.875	1136376	4817.720215	560	PM	415	532	
5MW52	1994-07-20 0(	850667.125	1138227	4696.140137	430	PM	222	415	
5MW53	1994-09-14 0(	851585.6875	1136692	4809.299805	560	PM	403	519	
5MW54	1994-07-19 0(	850842.375	1138435	4695.759766	420	PM	214	411	
5MW55	1994-09-16 0(	851563.375	1137168	4782.660156	500	PM	378	488	
5MW56	1994-08-15 0(	850777.8125	1138705	4711.490234	460	PM	240	425	
5MW57	1994-09-22 0(	851706.8125	1137603	4748	470	PM	340	456	
5MW58	1994-08-11 0(	850844.125	1138978	4745.279785	480	PM	271	467	
5MW59	1994-09-22 0(	851643.6875	1138107	4735.25	460	PM	326	437	
5MW6	1994-10-12 0(	851513.375	1140715	4764.759766	580	PM	282	530	
5MW60	1994-08-11 0(	850882.375	1139247	4744.330078	500	PM	269	464	
5MW61	1994-09-23 0(	851741.625	1138567	4711.870117	440	PM	241	420	
5MW62	1994-08-26 0(	851030.625	1139480	4741.220215	480	PM	265	454	
5MW63	1994-09-26 0(	851834.625	1139032	4754.910156	500	PM	268	465	
5MW64	1994-08-26 0(	851139.625	1139732	4747.910156	480	PM	265	460	
5MW65	1994-09-26 0(	851909.625	1139495	4751.470215	500	PM	255	449	
5MW66	1994-09-13 0(	851361	1139890	4749.310059	480	PM	265	449	
5MW67	1994-09-30 0(	852219.625	1139865	4763.040039	520	PM	272	473	
5MW69	1994-09-30 0(	852344.8125	1140323	4782.939941	560	PM	303	554	
5MW7	1994-11-11 0(	851907.8125	1142153	4790.870117	640	PM	320	625	
5MW8	1994-10-13 0(	851526.8125	1140994	4766.689941	560	PM	310	543	
5SM1	1994-07-20 0(	848563	1138045	4802.310059	300	SM	263	288	
5SM2	1994-07-20 0(	850558.125	1137330	4852.169922	340	SM	306	321	
5SM3	1994-07-25 0(	851029.3125	1137765	4793.069824	270	SM	247	262	
5SM5	1994-08-25 0(	851374	1139331	4747.629883	210	SM	158	196	
5SM6	1994-10-14 0(	851643.3125	1140205	4762.029785	230	SM	191	224	
5SM7	1994-11-16 0(	851355.8125	1142040	4774.160156	255	SM	215	245	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
5TW-1	1995-08-16 0(	851641.125	1141655	4786.899902	620	TW	493	602	
6AA27-3	1996-09-16 0(	852608.1875	1151276	4846.200195	540	R	497	510	
6AA31-2	1996-07-10 0(	852616.875	1151046	4830.439941	540	R	485	515	
6AA32-1	1996-08-15 0(	852651.3125	1150980	4826.629883	540	I	490	508	
6AA33-2	1996-07-10 0(	852585.3125	1150950	4823.129883	540	R	470	480	
6AA36-1	1996-05-17 0(	852636.8125	1150798	4819.629883	540	I	490	505	
6AA37-3	1996-08-01 0(	852547.125	1150762	4818.47998	540	R	465	480	
6AA38-1	1996-05-16 0(	852626.125	1150700	4816.540039	540	I	490	501	
6AA40-1	1996-02-13 0(	852649.625	1150598	4814.299805	520	I	470	485	
6AA41-1	1996-01-03 0(	852600	1150550	4813.089844	520	R	489	405	
6AA42-1	1996-01-03 0(	852650.375	1150501	4812.040039	520	I	465	502	
6AA43-2	1996-10-01 0(	852603.375	1150476	4810.819824	520	I	460	500	
6AB39-1	1996-05-17 0(	852724.375	1150651	4814.509766	520	I	465	478	
6AB42-1	1996-07-26 0(	852757.875	1150526	4811.129883	520	R	445	500	
6AC34-1	1996-07-18 0(	852858.6875	1150901	4831.129883	540	R	480	493	
6AC35-1	1996-01-03 0(	852800.1875	1150851	4825.089844	520	R	472	485	
6AC36-2	1996-07-18 0(	852834.1875	1150802	4823.490234	520	R	470	485	
6AC37-2	1996-07-18 0(	852778.125	1150750	4818.859863	540	I	470	485	
6AC38-1	1996-07-31 0(	852826.8125	1150703	4818.040039	520	I	463	480	
6AC41-2	1996-08-14 0(	852800.8125	1150559	4812.609863	540	I	480	498	
6AC42-1	1996-07-25 0(	852849.6875	1150500	4811.089844	520	I	475	496	
6AC43-1	1996-08-05 0(	852817.8125	1150459	4809.549805	540	R	475	497	
6AC44-1	1996-08-05 0(	852836.625	1150392	4807.930176	540	R	478	496	
6AC62-1	1997-10-09 0(	852837.125	1149499	4806.02002	420	I	370	385	
6AC66-3	1997-10-09 0(	852872.875	1149293	4806.439941	440	R	347	370	
6AD32-1	1995-12-07 0(	852949.125	1150998	4843.089844	560	R	490	507	
6AD33-1	1996-03-02 0(	852871.3125	1150976	4834.709961	540	I	480	495	
6AD34-1	1996-07-19 0(	852951.375	1150900	4837.669922	540	I	485	504	
6AD37-1	1996-07-17 0(	852920.875	1150728	4825.189941	540	R	475	495	
6AD39-1	1996-07-24 0(	852902.5	1150626	4818.640137	540	I	465	480	
6AD40-1	1996-08-15 0(	852950.5	1150583	4820.819824	540	R	465	495	
6AD41-1	1996-08-30 0(	852898.625	1150540	4815.410156	540	R	458	500	
6AD42-1	1996-02-16 0(	852948.375	1150500	4817.75	540	I	478	502	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6AD43-2	1996-08-02 0(	852912.1875	1150456	4812.669922	520	R	475	497	
6AD43-3	1996-08-02 0(	852875.1875	1150430	4810.319824	520	I	475	497	
6AD44-1	1996-08-15 0(	852939.625	1150390	4813.330078	540	R	455	495	
6AD45-1	1996-07-30 0(	852900.125	1150350	4809.5	540	I	476	496	
6AD46-2	1996-08-13 0(	852992.8125	1150311	4816.5	520	I	464	497	
6AD47-2	1996-07-29 0(	852866.375	1150250	4802.169922	520	R	447	490	
6AD48-1	1996-08-14 0(	852979.625	1150219	4812.129883	520	R	464	495	
6AD49-1	1996-11-20 0(	852925.125	1150149	4804.310059	520	I	447	493	
6AD60-3	1997-10-23 0(	852958.875	1149602	4790.890137	420	R	359	368	
6AD61-1	1996-03-21 0(	852899.8125	1149550	4796.200195	500	R	350	365	
6AD63-3	1997-10-23 0(	852900.375	1149438	4807.830078	420	I	370	393	
6AD64-2	1997-10-10 0(	852933.625	1149407	4807.810059	440	R	352	371	
6AE32-1	1996-08-15 0(	853028.875	1151013	4848.839844	560	I	500	511	
6AE33-1	1995-12-01 0(	853000.375	1150949	4844.529785	800	R	500	518	
6AE34-1	1995-12-07 0(	853049.5	1150900	4844.839844	540	I	502	516	
6AE35-1	1995-11-30 0(	853000.8125	1150850	4838.779785	560	R	495	512	
6AE36-1	1996-07-17 0(	853001.125	1150800	4836.609863	540	I	485	496	
6AE38-1	1996-08-14 0(	853061.375	1150671	4837.97998	540	I	480	501	
6AE39-1	1995-12-07 0(	853001.6875	1150651	4829.839844	560	I	478	492	
6AE43-1	1996-01-08 0(	852999.3125	1150449	4820.660156	540	I	462	500	
6AE44-1	1996-02-13 0(	853049.8125	1150400	4825.779785	540	R	485	505	
6AE45-1	1996-08-05 0(	853039.625	1150349	4823.009766	540	I	467	510	
6AE49-2	1996-08-20 0(	853010	1150137	4811.879883	520	R	460	500	
6AE51-2	1996-11-20 0(	853000.3125	1150081	4810.02002	520	I	480	497	
6AE51-3	1996-11-26 0(	853031.375	1150029	4810.609863	520	R	465	479	
6AE58-2	1997-11-10 0(	853001.125	1149706	4766.779785	420	I	358	363	
6AE62-2	1997-10-06 0(	853086.3125	1149505	4809.580078	440	R	370	403	
6AE64-3	1997-10-10 0(	853024.875	1149422	4801.819824	440	R	369	390	
6AE65-2	1997-10-14 0(	852996.875	1149322	4789.669922	440	I	388	405	
6AE66-4	1997-10-15 0(	853067.625	1149291	4784.580078	420	I	349	352	
6AE67-3	1997-10-14 0(	853007.125	1149237	4784.100098	420	R	324	346	
6AE69-2	1997-11-04 0(	853004.625	1149141	4757.080078	400	I	298	310	
6AE70-3	1997-10-16 0(	853091.8125	1149100	4754.009766	380	R	294	310	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6AF39-1	1995-12-07 0(	853100.3125	1150649	4841.310059	560	I	490	505	
6AF41-1	1996-05-02 0(	853075.375	1150537	4834.77002	540	I	470	490	
6AF42-1	1996-05-17 0(	853148.625	1150500	4842.919922	540	R	495	521	
6AF43-2	1996-09-04 0(	853066.3125	1150458	4829.120117	540	I	460	502	
6AF44-1	1996-02-14 0(	853148.8125	1150402	4842.220215	540	R	485	522	
6AF46-1	1996-07-26 0(	853065	1150290	4823.509766	540	R	470	510	
6AF47-2	1996-10-03 0(	853153.125	1150253	4835.680176	560	R	500	524	
6AF50-1	1997-01-22 0(	853159.8125	1150105	4824.279785	560	BL	475	488	
6AF64-2	1997-10-28 0(	853113.1875	1149379	4795.5	440	R	370	389	
6AF67-5	1997-10-17 0(	853075.1875	1149237	4776.970215	420	R	324	332	
6AF68-3	1997-11-03 0(	853162.375	1149203	4768.02002	420	I	345	358	
6AG41-1	1996-05-02 0(	853250.1875	1150552	4834.160156	540	I	495	518	
6AG42-1	1996-08-22 0(	853248.6875	1150493	4839.439941	560	R	495	520	
6AG43-3	1996-10-16 0(	853197.375	1150443	4846.810059	560	I	505	525	
6AG44-1	1996-05-02 0(	853249.3125	1150399	4848.140137	540	R	505	525	
6AG45-1	1996-07-29 0(	853161.6875	1150303	4839.319824	540	I	490	530	
6AG45-2	1996-09-11 0(	853195.875	1150349	4845.220215	560	R	495	528	
6AG46-1	1996-08-30 0(	853247.875	1150303	4851.069824	560	I	500	535	
6AG47-1	1996-08-28 0(	853201	1150248	4843.540039	560	I	490	530	
6AG48-1	1996-04-18 0(	853258	1150210	4847.319824	560	R	485	505	
6AG49-3	1997-01-08 0(	853199.6875	1150179	4834.310059	560	I	480	495	
6AG61-2	1997-10-03 0(	853180.125	1149541	4810.589844	440	I	374	383	
6AG63-2	1997-10-06 0(	853175.5	1149468	4810.799805	440	I	384	403	
6AG64-2	1997-10-07 0(	853215.625	1149412	4802.089844	440	R	372	405	
6AG65-3	1997-10-16 0(	853171.125	1149320	4783.410156	460	I	350	370	
6AG68-1	1996-05-15 0(	853248.3125	1149202	4765.189941	460	R	335	343	
6AH38-1	1996-11-21 0(	853348.875	1150701	4820.439941	520	I	475	500	
6AH39-1	1996-02-20 0(	853300.375	1150651	4823.279785	540	R	483	500	
6AH40-2	1996-10-14 0(	853340.8125	1150595	4819.859863	519	R	472	500	
6AH41-2	1996-11-22 0(	853347.125	1150552	4818.669922	540	I	470	498	
6AH42-1	1996-05-02 0(	853316.875	1150502	4823.549805	540	R	475	503	
6AH44-1	1996-08-21 0(	853348.875	1150397	4824.919922	540	R	460	507	
6AH45-2	1996-08-22 0(	853319.1875	1150331	4841.759766	540	I	480	518	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6AH45-3	1996-09-11 0(	853280.375	1150357	4840.77002	560	I	490	525	
6AH47-1	1996-10-02 0(	853304.8125	1150248	4852.490234	560	I	490	505	
6AH49-2	1997-01-07 0(	853302.5	1150107	4849.080078	560	I	480	500	
6AH61-2	1997-10-15 0(	853329.3125	1149523	4809.77002	440	R	365	374	
6AH63-3	1997-10-20 0(	853306.875	1149464	4797.879883	440	I	357	367	
6AH67-2	1997-10-28 0(	853310.625	1149249	4764.180176	380	I	333	350	
6AH68-2	1997-10-23 0(	853360	1149199	4776.810059	420	R	336	349	
6AH69-2	1997-10-30 0(	853285.8125	1149169	4766.330078	380	I	335	340	
6AH70-5	1997-10-29 0(	853376.625	1149092	4746.399902	420	R	312	345	
6AH71-4	1997-10-29 0(	853306.875	1149025	4754.240234	380	I	314	317	
6AI36-1	1997-01-15 0(	853448.5	1150800	4806.959961	540	R	480	495	
6AI37-1	1996-02-21 0(	853388.3125	1150751	4820.600098	540	I	475	505	
6AI38-1	1996-11-25 0(	853447.3125	1150708	4803.169922	520	I	460	490	
6AI39-1	1996-02-20 0(	853400.375	1150648	4818.799805	520	R	478	507	
6AI40-1	1996-05-07 0(	853449.5	1150599	4817.959961	520	I	475	505	
6AI41-2	1997-01-07 0(	853397.8125	1150587	4817.649902	520	I	473	502	
6AI42-1	1996-08-20 0(	853408.875	1150510	4815.910156	520	I	455	497	
6AI43-1	1996-08-20 0(	853401.1875	1150449	4816.149902	520	I	455	495	
6AI44-1	1996-08-26 0(	853431.5	1150411	4814.459961	540	R	453	490	
6AI46-1	1996-08-23 0(	853439.625	1150307	4819.720215	540	I	485	500	
6AI48-1	1996-10-02 0(	853445.8125	1150201	4825.47998	520	R	485	505	
6AI61-4	1997-11-19 0(	853398.875	1149530	4813.859863	420	I	387	398	
6AI63-3	1997-10-22 0(	853389.375	1149450	4800.669922	420	R	355	368	
6AI65-2	1997-10-20 0(	853369.125	1149356	4786.600098	460	R	345	351	
6AI66-1	1997-11-03 0(	853410.5	1149304	4780.709961	420	I	339	350	
6AI69-3	1997-10-31 0(	853437.8125	1149137	4754.470215	380	R	320	340	
6AI73-4	1997-10-30 0(	853397.5	1149021	4743.529785	400	R	313	334	
6AJ37-1	1996-02-22 0(	853500.375	1150750	4806.75	540	R	475	500	
6AJ39-1	1996-04-17 0(	853500.875	1150650	4800.040039	540	I	455	490	
6AJ40-2	1996-10-23 0(	853539.3125	1150597	4799.299805	520	I	440	470	
6AJ41-1	1996-08-20 0(	853500.625	1150550	4812.959961	520	R	450	470	
6AJ43-1	1997-01-06 0(	853469.625	1150480	4815.27002	540	I	450	495	
6AJ46-1	1996-10-03 0(	853538	1150318	4795.25	520	I	352	365	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6AJ49-2	1996-10-09 0(	853526.8125	1150128	4798.049805	520	I	465	480	
6AJ52-1	1997-01-15 0(	853527	1149992	4796.569824	520	I	469	480	
6AJ63-3	1997-10-21 0(	853484.125	1149450	4791.740234	400	I	346	353	
6AJ65-4	1997-10-21 0(	853485.5	1149353	4784.779785	400	I	343	349	
6AJ67-2	1997-10-30 0(	853498.3125	1149220	4764.529785	420	R	324	335	
6AJ69-2	1997-11-04 0(	853535.1875	1149141	4753.25	420	I	315	330	
6AK32-1	1996-05-03 0(	853674.375	1150998	4832.560059	540	R	495	515	
6AK33-1	1996-02-21 0(	853601	1150950	4806.620117	520	I	480	492	
6AK44-1	1996-08-21 0(	853648	1150397	4811.77002	520	I	460	477	
6AK45-1	1996-09-06 0(	853634.1875	1150348	4810.209961	520	I	455	475	
6AK45-2	1996-09-17 0(	853580	1150349	4798.240234	520	R	355	377	
6AK45-3	1996-09-19 0(	853656.5	1150350	4804.160156	420	I	355	375	
6AK46-1	1996-10-08 0(	853623.8125	1150297	4798.870117	420	R	352	380	
6AK47-1	1996-09-09 0(	853648.3125	1150251	4801.470215	520	R	440	475	
6AK47-2	1996-09-23 0(	853677.375	1150250	4811.819824	420	I	365	390	
6AK47-3	1996-11-11 0(	853598.5	1150228	4797.209961	520	I	437	477	
6AK48-2	1996-09-03 0(	853683.8125	1150200	4812.830078	520	R	455	490	
6AK48-3	1996-09-19 0(	853668.625	1150184	4812.390137	420	BL	365	390	
6AK51-1	1996-11-11 0(	853566.875	1150049	4792.430176	520	R	457	480	
6AL31-1	1996-02-20 0(	853699.875	1151051	4826.080078	540	R	495	515	
6AL33-1	1996-02-21 0(	853700.1875	1150950	4824.169922	540	R	493	510	
6AL34-1	1996-08-22 0(	853751.3125	1150903	4823.129883	540	I	480	505	
6AL35-1	1996-02-21 0(	853699.5	1150850	4821.97998	540	R	490	505	
6AL38-2	1996-11-26 0(	853728.5	1150700	4819.859863	520	I	478	498	
6AL40-1	1996-02-29 0(	853749.375	1150599	4818.220215	520	R	478	491	
6AL41-1	1996-08-23 0(	853700.1875	1150549	4817.140137	540	I	470	490	
6AL42-1	1996-10-08 0(	853780.8125	1150498	4817	420	I	380	390	
6AL43-1	1996-08-26 0(	853681.125	1150474	4815.240234	540	R	465	480	
6AL44-1	1996-11-04 0(	853791.875	1150392	4816.350098	420	I	375	387	
6AL46-1	1996-09-06 0(	853698.625	1150295	4809.47998	520	I	455	485	
6AL48-1	1996-09-16 0(	853769.1875	1150220	4814.919922	540	I	460	490	
6AL48-2	1996-09-19 0(	853770.625	1150209	4814.689941	440	I	372	395	
6AL49-1	1997-01-20 0(	853721.3125	1150149	4812.560059	540	R	456	490	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6AL52-3	1997-10-02 0(	853723.3125	1150013	4807.930176	440	I	363	383	
6AL54-2	1997-09-30 0(	853779.625	1149910	4816.839844	460	R	390	406	
6AM34-1	1996-03-05 0(	853849.875	1150900	4829.060059	520	I	492	515	
6AM35-2	1996-08-22 0(	853788.8125	1150842	4823.25	520	I	480	500	
6AM36-1	1996-03-04 0(	853850.625	1150800	4826.569824	520	R	485	500	
6AM37-2	1996-08-22 0(	853808.5	1150732	4822.200195	520	I	472	500	
6AM37-3	1996-08-21 0(	853774.3125	1150776	4821.560059	520	R	480	495	
6AM39-1	1996-03-02 0(	853801.625	1150651	4820.02002	540	I	475	490	
6AM39-2	1996-09-30 0(	853799.875	1150609	4818.810059	420	I	377	390	
6AM40-1	1996-10-14 0(	853851.125	1150600	4820.97998	540	I	495	510	
6AM41-1	1996-03-04 0(	853801.8125	1150549	4818.560059	540	BL	380	392	
6AM42-1	1996-09-13 0(	853850.625	1150500	4818.680176	540	I	372	388	
6AM43-2	1996-09-16 0(	853750.875	1150450	4816.200195	540	I	480	495	
6AM43-3	1996-11-05 0(	853824	1150449	4816.839844	420	I	373	388	
6AM44-1	1996-09-03 0(	853816.1875	1150393	4817.089844	540	R	465	503	
6AM44-2	1996-10-11 0(	853880	1150409	4818.089844	540	R	470	504	
6AM45-1	1996-09-03 0(	853769.8125	1150351	4815.700195	540	I	465	493	
6AM46-1	1996-09-18 0(	853772.625	1150291	4812.609863	540	R	462	495	
6AM46-2	1996-10-14 0(	853881.5	1150268	4815.959961	540	I	465	500	
6AM46-3	1996-11-26 0(	853831.3125	1150311	4816.02002	540	R	465	505	
6AM46-4	1997-09-10 0(	853868.375	1150291	4817.330078	420	I	377	395	
6AM47-1	1996-11-07 0(	853822.125	1150244	4815.370117	520	I	460	495	
6AM47-3	1997-08-13 0(	853833.8125	1150243	4815.310059	420	I	368	385	
6AM48-1	1996-11-04 0(	853848.375	1150201	4814.490234	540	I	460	495	
6AM49-1	1996-11-04 0(	853813.3125	1150171	4813.450195	520	R	363	390	
6AM49-3	1996-12-04 0(	853789.5	1150139	4811.75	520	I	460	495	
6AM50-1	1996-11-27 0(	853818.625	1150102	4807.140137	520	R	475	496	
6AM50-2	1997-08-04 0(	853797.3125	1150102	4806.339844	400	R	360	386	
6AM52-2	1997-10-06 0(	853817.875	1149998	4815.290039	420	R	370	390	
6AM56-2	1997-09-23 0(	853850.1875	1149806	4816.160156	480	R	390	400	
6AM59-2	1997-09-26 0(	853836.625	1149671	4794.459961	460	R	375	400	
6AM60-3	1997-09-29 0(	853861.3125	1149599	4790.589844	460	I	375	403	
6AM67-1	1995-01-18 0(	0	0	0	480	PT			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6AN33-1	1996-08-27 0(	853950.125	1150959	4837	540	I	405	420	
6AN34-2	1996-10-07 0(	853978.375	1150910	4838.490234	460	R	404	425	
6AN35-2	1996-10-30 0(	853924.5	1150880	4833.299805	560	I	400	415	
6AN36-2	1996-11-19 0(	853980.125	1150820	4836.25	460	R	405	415	
6AN38-2	1996-11-25 0(	853988.625	1150702	4832.649902	540	I	482	510	
6AN40-2	1996-11-05 0(	853998.8125	1150601	4828.740234	540	R	475	498	
6AN41-2	1996-10-15 0(	853929.8125	1150551	4822.839844	540	R	497	510	
6AN43-2	1996-09-18 0(	853839.8125	1150451	4817.27002	540	I	485	502	
6AN43-3	1996-09-23 0(	853929.8125	1150450	4819.919922	540	I	468	510	
6AN44-2	1996-10-31 0(	853969.625	1150385	4820.859863	540	R	465	485	
6AN45-2	1996-09-18 0(	853861.1875	1150359	4816.919922	540	I	470	502	
6AN45-3	1996-09-26 0(	853931.375	1150337	4818.379883	540	I	460	500	
6AN45-4	1996-12-03 0(	853880.6875	1150363	4817.220215	420	R	373	390	
6AN47-1	1996-10-14 0(	853940.625	1150249	4818.25	540	R	485	498	
6AN47-3	1997-07-31 0(	853918.8125	1150228	4816.430176	400	R	375	395	
6AN49-1	1996-10-21 0(	853920.3125	1150179	4816.589844	540	R	370	390	
6AN49-2	1997-01-03 0(	853900.625	1150149	4815.640137	540	I	485	500	
6AN49-3	1997-08-01 0(	853874.8125	1150128	4812.740234	540	I	360	387	
6AN50-2	1997-08-06 0(	853979.1875	1150097	4823.129883	560	R	502	515	
6AN51-2	1997-06-17 0(	853914.125	1150059	4818.339844	540	R	485	508	
6AN52-1	1997-01-02 0(	853949.875	1150000	4822.430176	540	PT	368	398	
6AN53-1	1997-01-09 0(	853900.125	1149950	4820.060059	540	I	368	392	
6AN57-3	1997-10-01 0(	853925.5	1149741	4800.25	440	I	379	400	
6AO30-1	1996-09-10 0(	854045.625	1151098	4846.580078	480	R	425	435	
6AO30-2	1996-11-01 0(	854099.8125	1151080	4851.509766	560	I	515	535	
6AO32-1	1996-03-12 0(	854052.375	1150998	4846.669922	540	I	510	528	
6AO32-2	1996-09-10 0(	854023.625	1151025	4844.359863	480	R	420	430	
6AO33-2	1996-03-20 0(	854026.3125	1150972	4843.759766	540	R	410	430	
6AO34-2	1996-12-05 0(	854032.875	1150913	4843.22998	560	I	495	520	
6AO36-4	1996-12-09 0(	854003.1875	1150801	4838.060059	560	I	485	510	
6AO37-1	1996-11-12 0(	854044.3125	1150751	4838.339844	540	R	490	515	
6AO39-2	1996-11-07 0(	854039	1150648	4832.290039	540	R	475	505	
6AO41-1	1996-10-31 0(	853975.3125	1150518	4824.200195	540	I	470	493	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6AO42-1	1996-04-23 0(	854065.8125	1150483	4826.77002	520	R	462	492	
6AO46-3	1997-08-18 0(	854091.375	1150290	4828.310059	540	I	453	473	
6AO47-3	1997-08-15 0(	854016.3125	1150249	4822.200195	540	R	445	465	
6AO49-2	1997-06-16 0(	853975.875	1150150	4820.97998	540	I	375	390	
6AO49-3	1997-08-07 0(	854010.625	1150169	4823.810059	540	I	450	470	
6AO51-1	1997-06-16 0(	853998.875	1150049	4826.339844	540	I	500	517	
6AO54-1	1997-01-09 0(	854051.3125	1149900	4835.620117	500	R	386	410	
6AO55-4	1997-09-26 0(	853960.875	1149848	4825.709961	440	I	385	398	
6AO56-4	1997-12-17 0(	854099.625	1149802	4840.040039	480	R	395	404	
6AO59-1	1997-09-30 0(	854031.375	1149650	4799.759766	440	I	375	387	
6AP29-1	1996-09-20 0(	853950.125	1149849	4824.419922	480	R	425	450	
6AP30-2	1996-10-21 0(	854173.1875	1151100	4858.160156	480	R	428	444	
6AP31-2	1996-08-26 0(	854079.3125	1151049	4849.640137	560	R	425	440	
6AP31-4	1996-10-25 0(	854148.6875	1151052	4857.350098	560	R	520	535	
6AP33-2	1996-09-20 0(	854096.5	1150971	4849.810059	560	I	510	525	
6AP34-1	1996-11-25 0(	854157.375	1150905	4852.799805	560	R	495	527	
6AP35-1	1996-10-23 0(	854098.625	1150854	4847.009766	560	R	490	523	
6AP36-1	1996-10-11 0(	854149.625	1150801	4848.439941	560	I	495	525	
6AP37-1	1996-05-15 0(	854100.375	1150749	4842.830078	540	R	488	515	
6AP38-2	1997-01-23 0(	854127.3125	1150696	4839.299805	560	I	480	505	
6AP39-1	1996-10-10 0(	854089.125	1150631	4833.819824	560	I	475	497	
6AP41-1	1996-10-10 0(	854119.3125	1150569	4832.240234	540	R	470	493	
6AP42-2	1996-11-06 0(	854119.8125	1150502	4830.75	520	I	468	492	
6AP42-3	1996-11-05 0(	854158.625	1150500	4833.470215	460	R	410	440	
6AP43-1	1996-11-05 0(	854128.875	1150430	4829.72998	540	R	412	430	
6AP44-1	1996-11-06 0(	854151.3125	1150399	4832.310059	540	R	470	493	
6AP45-2	1996-11-18 0(	854071.375	1150359	4825.350098	540	I	405	415	
6AP46-2	1996-11-21 0(	854177.5	1150303	4835.939941	540	R	470	498	
6AP51-2	1997-08-11 0(	854150.125	1150050	4846.149902	560	R	473	485	
6AP51-3	1997-09-30 0(	854112	1150014	4841.560059	480	R	397	410	
6AP58-3	1997-09-25 0(	854150.6875	1149701	4842.25	460	I	393	425	
6AP59-2	1997-10-02 0(	854138.3125	1149655	4833.089844	540	R	477	507	
6AP64-2	1997-09-29 0(	854158.125	1149394	4776.290039	500	R	428	458	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6AQ29-3	1996-09-23 0(	854198.6875	1151164	4860.759766	500	I	430	450	
6AQ41-1	1996-11-08 0(	854154.5	1150562	4834.370117	480	I	415	430	
6AQ43-3	1996-11-20 0(	854214.6875	1150438	4839.109863	480	I	420	435	
6AQ43-4	1997-01-03 0(	854157.3125	1150466	4833.600098	540	I	470	498	
6AQ45-1	1996-11-07 0(	854200.3125	1150349	4837.649902	540	I	475	500	
6AQ46-1	1996-05-15 0(	854247.1875	1150300	4842.399902	520	R	490	498	
6AQ46-2	1997-07-22 0(	854225	1150312	4840.609863	460	I	392	430	
6AQ47-1	1997-01-02 0(	854199.125	1150249	4839.419922	540	R	472	505	
6AQ48-1	1997-01-07 0(	854230.5	1150190	4852.109863	540	I	485	514	
6AQ49-2	1997-01-08 0(	854191.125	1150136	4847.339844	540	R	473	507	
6AQ50-1	1997-01-08 0(	854243.6875	1150095	4852.259766	560	I	480	510	
6AQ52-1	1996-03-06 0(	854248.1875	1150000	4853.009766	560	R	485	522	
6AQ53-3	1997-09-29 0(	854177.625	1149929	4855.970215	480	I	409	419	
6AQ54-1	1997-01-17 0(	854238.3125	1149911	4858.129883	560	R	490	518	
6AQ56-1	1996-04-22 0(	854218	1149797	4861.97998	540	R	505	522	
6AQ61-5	1997-12-16 0(	854166.3125	1149507	4769.129883	480	I	427	451	
6aq67-4	1996-04-22 0(	854228.625	1149267	4791.879883	365	I	443	463	
6AR42-1	1997-07-23 0(	854347.8125	1150524	4792.330078	440	R	350	360	
6AR45-2	1997-07-21 0(	854282.6875	1150379	4836.72998	440	R	390	430	
6AR46-1	1997-08-04 0(	854321.8125	1150327	4823	440	I	380	394	
6AS43-3	1997-08-13 0(	854408.6875	1150414	4785.430176	440	I	345	360	
6AS46-2	1997-07-22 0(	854438.3125	1150311	4787.930176	420	I	348	365	
6AS47-1	1996-04-04 0(	854400.8125	1150250	4792.720215	500	R	350	385	
6AS47-2	1997-07-23 0(	854393.125	1150324	4791.549805	420	R	360	373	
6AS48-3	1997-07-24 0(	854466.625	1150199	4785.02002	440	R	343	357	
6AS57-1	1997-11-05 0(	854488.625	1149762	4786.850098	480	I	445	465	
6AS58-1	1996-05-01 0(	854454.8125	1149708	4780.75	500	I			
6AS59-1	1997-11-06 0(	854494.875	1149650	4784.379883	480	I	449	458	
6AT41-2	1997-07-16 0(	854524.3125	1150574	4823.140137	500	R	378	390	
6AT42-1	1997-07-24 0(	854549.8125	1150500	4820.069824	460	I	385	403	
6AT43-2	1997-08-06 0(	854485.125	1150459	4809.379883	440	R	380	395	
6AT48-4	1997-07-23 0(	854561.8125	1150231	4810.189941	420	I	377	395	
6AT49-2	1997-08-12 0(	854496.375	1150120	4790.310059	440	I	355	370	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6AT51-1	1996-04-18 0(	854500.375	1150052	4789.27002	480	R	349	375	
6AT55-2	1997-10-02 0(	854525.8125	1149823	4790.689941	420	I	360	374	
6AT56-3	1997-11-06 0(	854552.625	1149805	4798.939941	500	R	454	475	
6AT58-1	1996-05-02 0(	854545.375	1149699	4804.140137	520	I	460	485	1
6AT58-2	1997-11-05 0(	854544.8125	1149684	4802.640137	500	R	383	395	
6AU43-4	1997-08-11 0(	854612.125	1150516	4825.080078	460	I	392	405	
6AU44-1	1997-08-07 0(	854611.125	1150401	4811.959961	460	R	382	402	
6AU51-2	1997-07-25 0(	854585.875	1150066	4821.919922	460	I	404	427	
6AU53-2	1996-05-01 0(	854573.5	1149949	4816.890137	480	PT			
6AU54-1	1997-11-05 0(	854598.875	1149891	4808.879883	500	I	450	469	
6AU61-2	1997-10-02 0(	854617.375	1149559	4783.52002	420	I	374	388	
6DM1	1996-03-05 0(	851255.6875	1150806	4886.029785	650	DM	617	635	
6DM10	1996-05-09 0(	853240.3125	1149419	4798.25	560	DM	515	535	
6DM13	1996-05-09 0(	853820.3125	1150161	4813.77002	680	DM	592	605	
6DM14	1997-10-22 0(	852963.125	1149422	4807.129883	600	DM	520	545	
6DM2	1996-03-04 0(	851550.1875	1151220	4869.950195	660	DM	590	618	
6DM3-2	1996-03-28 0(	851931.3125	1151626	4848.140137	610	DM	574	603	
6DM4-2	1996-04-08 0(	851947.375	1151209	4845.959961	620	DM	572	594	
6DM5	1996-03-07 0(	852352.125	1151203	4826.549805	600	DM	548	575	
6DM6	1997-11-07 0(	853396.375	1149878	4794.509766	560	DM	510	535	
6DM8	1997-10-29 0(	853712.1875	1149623	4816.5	501	DM	530	557	
6DM9	1997-10-30 0(	853302.8125	1149182	4769.899902	500	DM	485	500	
6dt1	1996-12-19 0(	852300.375	1150452	4817.939941	502	DM	535	560	
6L36-1	1996-01-08 0(	851134.125	1150787	4885.97998	580	I	550	570	
6M29-1	1995-12-28 0(	851201.375	1151148	4898.529785	600	BL	570	595	
6M32-1	1995-12-29 0(	851248.8125	1151000	4888.959961	600	I	555	580	
6M33-2	1996-03-26 0(	851175.625	1150982	4896.009766	600	R	565	590	
6M34-1	1996-01-02 0(	851247.125	1150902	4887.97998	620	R	560	583	
6M36-1	1995-12-29 0(	851254.375	1150793	4885.52002	620	R	550	580	
6MW17-2	1996-06-13 0(	854569.375	1149067	4834	540	PM	370	530	
6MW19	1996-05-08 0(	854111.375	1148895	4824.629883	520	PM	386	520	
6MW21	1996-05-09 0(	853626.6875	1148890	4816.47998	520	PM	378	502	
6MW23	1996-05-13 0(	853185.625	1148725	4804.689941	430	PM	347	412	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6MW25	1996-05-13 0(	852728	1148861	4749.290039	600	PM	292	370	
6MW27	1996-05-10 0(	852610.375	1149299	4790.189941	400	PM	354	410	
6MW29	1996-05-09 0(	852613.375	1149597	4756.629883	380	PM	309	371	
6MW31	1996-05-08 0(	852718.8125	1149870	4803.339844	520	PM	363	494	
6MW33	1996-04-09 0(	852327.625	1150149	4814.930176	520	PM	460	496	
6MW34	1996-05-14 0(	854919.3125	1149398	4840.180176	540	PM	365	530	
6MW35	1996-04-08 0(	851896.5	1150377	4837.660156	530	PM	475	514	
6MW37	1996-03-26 0(	851428.125	1150370	4863.640137	580	PM	507	551	
6MW38	1996-05-13 0(	854903.125	1150320	4847.399902	600	PM	405	580	
6MW39	1996-03-26 0(	850934.625	1150378	4875.549805	590	PM	523	565	
6MW40	1996-04-16 0(	854637	1150726	4839.390137	560	PM	375	520	
6MW41	1996-01-09 0(	850879	1150867	4876.120117	590	PM	525	570	
6MW42	1996-04-10 0(	854529.8125	1151204	4835.72998	560	PM	385	550	
6MW43	1996-01-10 0(	850912.125	1151143	4897.029785	610	PM	550	595	
6MW44	1996-04-10 0(	854036.125	1151376	4852.459961	570	PM	400	560	
6MW45	1996-01-10 0(	851009.875	1151433	4953.970215	680	PM	605	655	
6MW46	1996-03-27 0(	853745.375	1151338	4834.25	560	PM	386	545	
6MW47	1996-01-11 0(	851153.375	1151656	4945.649902	680	PM	605	643	
6MW48-2	1996-04-02 0(	853510.125	1151512	4832.640137	540	PM	476	535	
6MW48-3	1997-01-24 0(	853423.375	1151251	4826.890137	540	PM	373	528	
6MW49	1996-01-15 0(	851438	1151750	4885.970215	610	PM	550	590	
6MW50	1996-03-07 0(	853025.5	1151524	4860.259766	630	PM	491	565	
6MW51	1996-01-12 0(	851615.5	1151962	4866.209961	600	PM	550	575	
6MW52	1996-01-16 0(	852672.125	1151854	4870.419922	650	PM	515	590	
6MW53	1996-01-15 0(	851847.3125	1152137	4855	640	PM	515	580	
6MW54	1996-01-16 0(	852321.8125	1152185	4862.450195	640	PM	515	580	
6N23-2	1996-03-08 0(	851351	1151450	4894.189941	600	I	565	582	
6N25-1	1995-11-21 0(	851299.8125	1151350	4896.149902	600	I	565	585	
6N26-1	1995-12-04 0(	851351.5	1151301	4888.600098	600	R	563	580	
6N27-1	1995-11-21 0(	851299.625	1151250	4891.430176	580	I	565	585	
6N30-1	1996-03-20 0(	851321.625	1151095	4883.350098	600	R	555	570	
6O24-1	1996-03-27 0(	851430.875	1151396	4880.930176	600	R	550	565	
6O25-1	1996-02-08 0(	851401.8125	1151350	4882.5	600	I	550	570	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6O26-1	1995-11-22 0(	851449.8125	1151300	4878.669922	600	R	551	563	
6P25-1	1995-12-05 0(	851499.8125	1151351	4876.359863	600	I	550	570	
6P28-2	1996-03-21 0(	851506.8125	1151210	4872.790039	580	R	535	560	
6P30-2	1996-03-21 0(	851555.375	1151127	4867.419922	580	R	530	555	
6P32-1	1996-03-27 0(	851585.5	1150991	4863.060059	580	I	522	545	
6Q27-2	1996-03-21 0(	851558.875	1151265	4869.25	580	I	535	560	
6Q29-2	1996-08-12 0(	851610.625	1151180	4864.899902	580	R	520	553	
6Q30-2	1996-03-20 0(	851627.8125	1151079	4862.200195	580	I	525	550	
6Q33-1	1996-05-22 0(	851630.6875	1150940	4859.220215	560	R	525	545	
6R18-1	1995-12-29 0(	851750.625	1151699	4860.330078	580	I	550	570	
6R19-1	1996-01-08 0(	851700.6875	1151649	4864.459961	580	I	560	575	
6R21-1	1995-11-21 0(	851749.1875	1151550	4860.660156	800	R	530	545	
6R21-2	1995-11-29 0(	851700.5	1151551	4865	620	I	540	555	
6R22-1	1995-12-12 0(	851752.8125	1151501	4860.629883	580	R	535	550	
6R23-1	1995-12-29 0(	851700	1151452	4865.569824	580	I	530	555	
6R30-2	1996-03-19 0(	851699.375	1151101	4858.75	580	I	530	550	
6R31-2	1996-05-16 0(	851751.3125	1151052	4854.609863	580	R	505	544	
6R32-2	1996-03-29 0(	851699.6875	1151003	4857.350098	580	R	515	545	
6R34-1	1996-05-16 0(	851749.8125	1150902	4851.799805	560	R	505	535	
6S17-1	1996-03-26 0(	851821.8125	1151778	4854.02002	580	I	540	562	
6S19-1	1995-11-20 0(	851799.8125	1151650	4857.279785	800	R	550	565	
6S21-2	1996-07-10 0(	851831.8125	1151565	4854.430176	580	I	520	535	
6S22-1	1996-03-22 0(	851820.375	1151493	4854.540039	600	R	525	560	
6S25-3	1996-08-12 0(	851819.625	1151386	4853.339844	580	I	515	550	
6S26-1	1995-11-29 0(	851850.375	1151300	4850.029785	580	R	510	545	
6S27-1	1995-11-22 0(	851800.625	1151250	4854	800	I	510	550	
6S29-1	1996-04-29 0(	851800.625	1151151	4853.540039	580	I	510	540	
6S30-1	1996-05-17 0(	851841.1875	1151085	4850.129883	580	R	500	533	
6S33-1	1996-05-16 0(	851750.125	1150965	4853.180176	580	I	508	535	
6S34-1	1996-03-26 0(	851851.375	1150900	4846.589844	560	I	500	530	
6SM1	1996-03-12 0(	851278.875	1150805	4883.240234	350	SM	282	340	
6SM10	1996-05-10 0(	853238.375	1149394	4794.350098	300	SM	273	280	
6SM13	1996-05-10 0(	853799.125	1150161	4813.310059	230	SM	175	203	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6SM14	1997-10-21 0(	852964.8125	1149399	4805.959961	240	SM	220	240	
6SM2	1996-03-12 0(	851509.8125	1151051	4869.470215	300	SM	262	285	
6SM3	1996-03-05 0(	851929.875	1151642	4848.459961	245	SM	203	225	
6SM4	1996-03-12 0(	851951.375	1151190	4845.890137	220	SM	196	206	
6SM5	1996-03-18 0(	852351.125	1151196	4826.580078	280	SM	234	268	
6SM6	1996-04-17 0(	852749.875	1150547	4811.669922	300	SM	278	290	
6SM7	1996-04-18 0(	853300.3125	1150277	4852.600098	335	SM	317	330	
6SM8	1996-04-17 0(	853748.625	1150617	4818.470215	250	SM	208	222	
6SM9	1996-04-22 0(	854092.5	1150496	4828.899902	230	SM	202	211	
6T15-1	1995-11-20 0(	851899.875	1151850	4844.759766	580	I	530	545	
6T16-1	1996-07-30 0(	851964.6875	1151785	4840.5	560	R	520	543	
6T17-1	1995-11-20 0(	851900.8125	1151750	4849.390137	580	R	533	550	
6T23-4	1997-01-28 0(	851892	1151434	4848.669922	560	R	520	550	
6T25-1	1996-05-22 0(	851910.8125	1151350	4843.830078	560	R	510	542	
6T27-2	1996-05-22 0(	851950.125	1151261	4845.009766	560	I	505	525	
6T29-1	1996-05-16 0(	851910.5	1151152	4847.689941	560	I	500	520	
6T30-3	1996-08-06 0(	851985.1875	1151108	4843.5	540	I	492	522	
6T31-1	1996-06-03 0(	851900.625	1151051	4846.290039	560	I	500	520	
6T33-1	1996-05-21 0(	851900.5	1150951	4844.620117	560	R	500	525	
6T34-1	1996-05-21 0(	851949.375	1150901	4841.120117	560	I	490	520	
6T35-1	1996-04-01 0(	851900	1150850	4843.319824	560	R	495	525	
6TW1	1996-05-07 0(	853554.375	1150720	4817.169922	420	TW	355	420	
6TW2	1996-05-08 0(	853228.625	1150194	4841.77002	460	TW	385	460	
6TW3	1996-05-08 0(	853340.3125	1149574	4812.430176	510	TW	430	498	
6TW4	1996-12-19 0(	852957.625	1150109	4807.759766	560	TW	363	490	
6TW5	1996-12-19 0(	853700.8125	1151000	4824.370117	460	TW	370	450	
6U15-1	1996-01-02 0(	852001.875	1151852	4836.540039	560	I	520	535	
6U18-2	1996-07-10 0(	852016	1151701	4837.049805	540	I	515	530	
6U20-2	1996-01-03 0(	852000.125	1151601	4840.660156	560	R	519	536	
6U22-1	1996-03-20 0(	852028.375	1151498	4840.640137	560	I	515	535	
6U24-1	1996-03-21 0(	852051.3125	1151400	4836.97998	560	R	510	525	
6U26-1	1996-07-29 0(	852030.8125	1151293	4838.149902	560	I	493	535	
6U28-2	1996-07-26 0(	852026.625	1151196	4841.180176	540	R	495	517	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6U31-3	1996-08-01 0(	852024.875	1151041	4840.339844	560	R	492	518	
6V17-1	1995-12-11 0(	852100.875	1151749	4836.689941	560	I	520	533	
6V19-1	1995-12-11 0(	852100.1875	1151652	4826.629883	560	R	502	518	
6V21-1	1995-11-22 0(	852100.6875	1151549	4830.240234	580	I	500	523	
6V22-2	1996-08-09 0(	852168.625	1151490	4819.149902	540	I	475	505	
6V23-1	1995-11-22 0(	852100.1875	1151451	4832.75	560	R	495	523	
6V24-1	1995-12-15 0(	852148	1151397	4822.160156	560	R	482	497	
6V25-1	1995-11-28 0(	852100.1875	1151350	4826.299805	560	I	490	515	
6V26-2	1996-08-07 0(	852121.3125	1151290	4832.040039	540	I	487	522	
6V27-1	1996-08-07 0(	852107.8125	1151200	4835.970215	560	I	511	534	
6V28-2	1996-08-09 0(	852201.8125	1151209	4825.859863	540	I	475	500	
6V30-3	1996-07-09 0(	852130.375	1151101	4834.720215	560	R	505	530	
6V32-2	1996-07-09 0(	852110.3125	1150999	4835.580078	560	I	515	527	
6W22-1	1995-12-29 0(	852250.375	1151500	4836.410156	560	R	495	508	
6W24-2	1996-07-11 0(	852237.3125	1151397	4831.029785	560	I	483	498	
6W25-1	1995-12-18 0(	852210.875	1151352	4818.450195	560	I			
6W25-2	1996-08-14 0(	852207	1151311	4804.859863	540	R	458	486	
6W29-2	1996-07-11 0(	852204.125	1151142	4826.959961	540	I	495	523	
6W31-1	1996-06-13 0(	852228.375	1151075	4826.669922	540	R	470	520	
6W32-1	1996-04-16 0(	852252.375	1150999	4826.870117	540	I	480	518	
6W33-1	1996-04-08 0(	852199.5	1150950	4831.100098	540	R	483	518	
6W34-1	1996-07-30 0(	852246	1150885	4826.399902	560	R	470	516	
6W35-1	1996-08-07 0(	852181.5	1150832	4826.430176	540	I	470	495	
6W36-1	1996-08-12 0(	852251.1875	1150786	4817.919922	540	I	498	510	
6W37-2	1996-09-30 0(	852176.375	1150728	4825.830078	540	I	506	515	
6W38-2	1996-10-07 0(	852231.3125	1150711	4823.169922	540	R	505	515	
6X21-1	1995-11-28 0(	852300.3125	1151550	4840.620117	800	I	495	508	
6X23-1	1996-05-17 0(	852300	1151450	4836.709961	560	I	495	508	
6X25-1	1996-05-20 0(	852299.6875	1151348	4825.109863	560	I	480	490	
6X26-1	1995-12-01 0(	852351.375	1151301	4831.709961	560	R	488	497	
6X27-2	1996-07-23 0(	852272.6875	1151274	4804.100098	540	R	455	493	
6X28-1C	1996-06-19 0(	852359.375	1151196	4827	560	R	470	485	
6X29-1	1996-07-11 0(	852302.875	1151151	4796.109863	540	R	450	490	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
6X30-1	1996-09-13 0(	852319.6875	1151098	4794.689941	520	I	450	465	
6X31-1	1996-08-19 0(	852318.8125	1151031	4792.720215	540	R	445	462	
6X33-1	1996-07-29 0(	852301.375	1150951	4820.350098	540	I	470	487	
6X35-2	1996-08-08 0(	852327	1150879	4818.189941	540	I	460	475	
6Y27-2	1996-07-10 0(	852433.1875	1151278	4836.169922	560	R	505	525	
6Y28-1	1996-07-10 0(	852446.875	1151206	4833.120117	560	I	505	525	
6Y29-1	1996-01-03 0(	852399	1151150	4825.959961	540	R	500	523	
6Y30-1	1996-07-08 0(	852450.5	1151101	4827.490234	540	I	475	490	
6Y31-1	1996-07-10 0(	852406.125	1151051	4820.930176	540	R	470	510	
6Y33-2	1996-07-10 0(	852458.625	1150931	4819.220215	540	I	472	490	
6Y36-1	1996-07-24 0(	852450	1150799	4788.27002	520	I	435	452	
6Y42-2	1996-10-01 0(	852418.375	1150495	4808.799805	520	I	462	475	
6Y43-1	1996-10-24 0(	852373.375	1150430	4810.580078	540	R	470	482	
6Z27-1	1995-11-28 0(	852499.625	1151250	4837.339844	560	I	485	520	
6Z28-1	1996-02-07 0(	852569	1151202	4839.77002	560	I	490	525	
6Z29-1	1995-11-28 0(	852500.5	1151150	4832.399902	560	I	485	520	
6Z30-1	1996-07-08 0(	852550.375	1151100	4831.109863	540	I	480	518	
6Z31-1	1996-07-10 0(	852491.3125	1151020	4825.589844	540	R	500	515	
6Z33-1	1996-07-10 0(	852510.3125	1150939	4822.990234	540	I	475	495	
6Z35-1	1996-07-25 0(	852525.5	1150850	4820.529785	540	I	470	485	
6Z40-2	1996-05-20 0(	852538.375	1150617	4807.279785	520	R	455	495	
6Z44-3	1996-10-31 0(	852597.875	1150411	4807.720215	500	R	455	475	
7AR67-2	1997-12-02 0(	854387.375	1149308	4775.740234	480	I	432	446	1
7AS63-1	1998-02-02 0(	854423.3125	1149427	4769.310059	480	I	425	440	
7AS65-1	1997-09-10 0(	854413	1149362	4776.129883	480	R	430	446	
7AS65-2	1997-11-20 0(	854477.125	1149329	4774.669922	480	I	425	440	1
7AS73-2	1997-12-23 0(	854482.875	1148983	4832.77002	560	I	505	523	1
7AT100-2	1998-08-25 0(	854524.8125	1147596	4868.959961	660	R	595	617	1
7AT102-1	1998-09-17 0(	854524.875	1147511	4860.040039	630	R	587	602	1
7AT103-1	1998-09-03 0(	854522.5	1147431	4853.660156	650	BL	579	601	
7AT105-2	1998-09-03 0(	854495.3125	1147336	4845.779785	660	BL	572	582	
7AT129-1	1997-09-02 0(	854576.625	1146138	4889.830078	560	BL	503	520	
7AT142-1	1997-06-30 0(	854536.3125	1145478	4906.259766	580	I	530	553	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
7AT61-1	1997-11-19 0(	854510	1149574	4782.75	480	I	440	455	1
7AT62-2	1997-11-18 0(	854520.625	1149490	4781.189941	480	I	432	450	
7AT64-2	1997-11-19 0(	854499.5	1149423	4783.47998	480	I	432	450	1
7AT72-1	1997-03-04 0(	854561.375	1149005	4834.209961	540	I	0	0	
7AT73-1	1997-12-12 0(	854542.5	1148929	4834.200195	540	R	505	530	1
7AT95-1	1998-09-02 0(	854582.875	1147877	4859.52002	640	BL	583	610	
7AT97-1	1998-08-06 0(	854525.8125	1147782	4878.839844	640	I	600	625	1
7AT98-1	1998-08-06 0(	854499.5	1147690	4875.919922	640	BL	600	625	
7AU100-1	1998-08-18 0(	854623.375	1147600	4878.100098	660	R	605	621	1
7AU102-1	1997-04-08 0(	854634.3125	1147509	4872.160156	660	R	601	616	1
7AU102-2	1998-09-16 0(	854681.8125	1147509	4876.799805	660	BL	612	642	
7AU103-3	1998-09-16 0(	854570.3125	1147438	4860.209961	650	I	605	629	1
7AU114-2	1997-08-05 0(	854652.875	1146924	4843.959961	640	R	566	582	1
7AU130-1	1997-05-15 0(	854691.125	1146104	4895.850098	680	R	640	663	1
7AU138-1	1997-06-11 0(	854606.375	1145691	4930.459961	720	R	685	695	1
7AU146-1	1997-06-12 0(	854661.1875	1145313	4899.370117	680	I	647	660	1
7AU56-1	1997-11-12 0(	854630.375	1149801	4817.200195	520	BL	451	476	
7AU58-1	1997-11-12 0(	854653.875	1149716	4812.930176	520	BL	395	413	
7AU58-2	1997-11-18 0(	854624.875	1149715	4809.810059	520	I	452	474	1
7AU59-1	1997-11-13 0(	854675.6875	1149630	4784.819824	480	I	402	418	1
7AU60-1	1997-12-19 0(	854700	1149617	4784.899902	480	BL	366	386	
7AU61-2	1997-12-17 0(	854645.125	1149557	4784.089844	500	BL	435	445	
7AU62-2	1997-12-19 0(	854688.1875	1149529	4786.850098	480	BL	375	415	
7AU62-3	1998-01-06 0(	854642.3125	1149512	4786.089844	480	I	433	458	1
7AU63-1	1997-03-06 0(	854693.3125	1149430	4808.009766	500	I	453	480	1
7AU63-3	1998-01-07 0(	854604.5	1149422	4794.370117	480	BL	375	400	
7AU64-1	1997-12-10 0(	854600.125	1149389	4795.129883	500	I	442	461	1
7AU65-3	1998-01-21 0(	854621.6875	1149326	4811.120117	500	I	442	466	1
7AU65-4	1998-05-04 0(	854696.3125	1149360	4822.779785	540	I	460	480	1
7AU66-1	1997-12-03 0(	854678.625	1149294	4834.259766	520	R	463	490	1
7AU68-2	1998-02-23 0(	854646.6875	1149216	4824.580078	540	BL	385	395	
7AU69-2	1998-02-04 0(	854643.8125	1149124	4833.22998	540	BL	370	380	
7AU71-1	1998-02-09 0(	854625.125	1149045	4835.410156	540	BL	369	388	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
7AU80-1	1998-07-02 0(	854611	1148591	4836.740234	620	BL	580	592	
7AU82-2	1998-07-06 0(	854647.875	1148510	4836.549805	620	BL	574	590	
7AU83-1	1998-08-05 0(	854630.3125	1148465	4835.410156	440	BL	364	387	
7AU84-1	1998-07-16 0(	854652.625	1148427	4835.72998	620	R	572	588	1
7AU84-2	1998-08-05 0(	854685.625	1148385	4835.830078	620	BL	365	378	
7AU85-1	1998-06-30 0(	854640.875	1148348	4834.649902	620	I	570	590	1
7AU86-1	1998-07-29 0(	854676.875	1148293	4835.180176	630	BL	362	378	
7AU88-1	1997-06-26 0(	854664.8125	1148205	4834.02002	430	BL	378	394	
7AU88-2	1998-07-28 0(	854611	1148202	4833.759766	620	I	570	585	1
7AU90-1	1998-07-29 0(	854666.3125	1148110	4834.040039	620	BL	355	369	
7AU93-2	1998-08-18 0(	854567.625	1147967	4846.740234	640	I	576	595	1
7AU96-1	1997-06-30 0(	854611.8125	1147792	4863.569824	640	R	579	610	1
7AU98-1	1998-09-29 0(	854635.1875	1147705	4874.899902	660	R	598	622	1
7AV101-1	1998-09-02 0(	854716.125	1147621	4872.700195	660	BL	620	625	
7AV122-1	1997-05-06 0(	854715.3125	1146508	4867.930176	650	R	605	639	
7AV54-1	1997-11-21 0(	854710.8125	1149891	4817.509766	500	BL	402	433	
7AV54-2	1997-11-19 0(	854773.375	1149890	4819.310059	500	BL	405	427	
7AV56-1	1997-12-01 0(	854762.5	1149809	4827.02002	480	I	415	440	1
7AV56-2	1997-12-15 0(	854714.875	1149808	4820.029785	500	BL	400	432	
7AV58-3	1997-12-15 0(	854736.625	1149707	4792.790039	480	BL	376	417	
7AV61-2	1997-11-19 0(	854735	1149566	4790.600098	480	I	380	397	
7AV61-4	1997-12-17 0(	854750.6875	1149530	4792.620117	500	I	435	460	1
7AV63-2	1997-11-26 0(	854711.3125	1149514	4791.540039	500	BL	443	450	
7AV63-3	1998-01-14 0(	854741.875	1149495	4796	500	BL	400	414	
7AV64-2	1997-12-17 0(	854746.8125	1149402	4818.680176	520	R	440	465	
7AV65-2	1998-01-29 0(	854796.5	1149364	4833.290039	540	I	470	488	1
7AV66-2	1997-12-18 0(	854760.875	1149294	4836.790039	540	BL	473	485	
7AV69-2	1998-02-12 0(	854723.125	1149172	4836.759766	540	BL	408	413	
7AV71-1	1998-01-29 0(	854684.375	1149048	4837.189941	540	BL	389	403	
7AV73-2	1998-02-03 0(	854664.375	1148973	4836.709961	540	BL	376	391	
7AV82-1	1998-07-02 0(	854794.5	1148520	4839.700195	620	I	583	605	1
7AV83-1	1998-07-06 0(	854746.625	1148448	4836.97998	620	I	572	592	1
7AV85-1	1998-09-15 0(	854749.375	1148351	4836.25	440	BL	365	377	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
7AV86-1	1998-07-09 0(	854715.875	1148319	4835.560059	620	BL	560	582	
7AV88-1	1998-07-15 0(	854745.125	1148171	4834.72998	620	BL	360	365	
7AV89-1	1998-06-30 0(	854719.875	1148172	4834.549805	620	I	558	578	1
7AV97-1	1998-09-28 0(	854741.8125	1147761	4847.390137	640	I	610	617	0
7AV98-1	1998-08-27 0(	854727.875	1147678	4860.120117	660	R	620	630	1
7AW58-1	1997-11-17 0(	854868.375	1149689	4788.720215	500	I	430	445	1
7AW60-1	1997-11-20 0(	854857.8125	1149610	4793.680176	500	R	441	456	1
7AW61-1	1997-11-24 0(	854832.1875	1149539	4803.450195	500	I	445	461	1
7AW61-2	1997-11-24 0(	854896.625	1149530	4804.910156	500	BL	444	469	
7AW63-1	1997-11-25 0(	854833.1875	1149462	4819.459961	520	I	455	477	1
7AW64-2	1998-01-20 0(	854847.125	1149389	4835.529785	540	I	469	486	1
7AW65-4	1998-01-08 0(	854874.625	1149333	4840.660156	540	R	472	492	1
7AW67-2	1997-12-18 0(	854862.125	1149238	4841.109863	540	R	473	492	1
7AW80-1	1998-07-06 0(	854843.5	1148592	4841.549805	630	BL	606	620	
7AW82-1	1998-07-06 0(	854878	1148509	4839.560059	620	I	591	607	1
7AW83-1	1998-08-11 0(	854772.8125	1148446	4837.870117	620	BL	365	372	
7AW84-1	1997-04-01 0(	854834.5	1148420	4838.040039	620	BL	565	600	
7AW84-3	1998-08-31 0(	854874.875	1148421	4838.509766	630	BL	557	567	
7AW85-1	1998-06-29 0(	854800.625	1148340	4836.680176	620	BL	560	590	
7AW86-1	1998-07-15 0(	854846.3125	1148336	4837.459961	630	BL	557	566	
7AW87-1	1998-07-01 0(	854802.125	1148248	4835.950195	620	BL	562	569	
7AW87-2	1998-07-08 0(	854782.125	1148262	4835.97998	630	R	363	380	
7AW88-2	1998-07-28 0(	854761.125	1148219	4835.22998	460	MISC	360	369	
7AW88-3	1998-10-07 0(	854849.3125	1148225	4836.720215	440	BL	380	402	
7AX63-1	1997-11-24 0(	854923.8125	1149457	4826.72998	520	I	469	482	1
7AX64-1	1997-11-21 0(	854910	1149384	4840.410156	620	I	486	499	1
7AX68-2	1998-01-05 0(	854973.875	1149208	4845.589844	640	BL	578	593	
7AX69-2	1998-01-19 0(	854978.875	1149136	4844.169922	640	BL	575	584	
7AX71-1	1997-12-11 0(	854954.125	1149073	4841.709961	640	BL	574	590	
7AX75-1	1997-02-27 0(	854983.375	1148835	4843.299805	520	BL	471	496	
7AX79-2	1998-08-31 0(	854892.3125	1148666	4842.740234	640	I	609	616	1
7AX80-1	1998-02-19 0(	854986.125	1148588	4841.709961	630	BL	565	572	
7AX85-1	1998-07-01 0(	854898.8125	1148351	4839.390137	620	BL	557	568	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
7AX85-2	1998-09-09 0(	854963.125	1148345	4845.310059	640	R	582	600	
7AX86-1	1998-07-02 0(	854963.8125	1148295	4847.330078	630	BL	587	618	
7AX87-1	1998-07-22 0(	854868	1148260	4837.77002	630	BL	565	598	
7AX87-2	1998-07-21 0(	854904.3125	1148271	4841.819824	630	BL	558	567	
7AX88-1	1998-07-07 0(	854934.6875	1148214	4843.370117	630	BL	563	614	
7AX88-2	1998-08-13 0(	854975.6875	1148216	4847.419922	630	I	597	616	1
7AX89-1	1998-08-13 0(	854903.8125	1148135	4838.080078	620	I	576	608	1
7AY62-1	1997-11-10 0(	855025.625	1149462	4841.720215	620	BL	562	570	
7AY65-1	1998-01-27 0(	854999.3125	1149373	4842.290039	640	BL	576	592	
7AY66-1	1997-12-19 0(	855011.1875	1149297	4844.540039	640	BL	570	587	
7AY77-2	1998-03-02 0(	855022.8125	1148734	4844.259766	620	BL	475	495	
7AY78-1	1998-01-19 0(	855044.375	1148693	4844.52002	625	I	595	610	1
7AY81-2	1998-07-01 0(	855056.8125	1148555	4842.589844	520	BL	470	495	
7AY82-3	1998-05-18 0(	855092.125	1148512	4843.700195	620	I	542	553	
7AY83-1	1998-05-27 0(	855010.8125	1148425	4844.779785	640	I	572	595	1
7AY85-3	1998-05-20 0(	855032.125	1148351	4852.649902	640	R	583	601	1
7AY86-1	1998-05-14 0(	855048.375	1148260	4856.459961	640	BL	585	603	
7AY88-1	1997-03-18 0(	855005.375	1148192	4849.680176	640	MISC	605	617	
7AY88-2	1998-08-05 0(	855064.125	1148230	4857.240234	640	MISC			
7AY89-1	1998-07-23 0(	854958.5	1148136	4842.569824	630	BL	565	575	
7AZ57-1	1997-11-13 0(	855145.625	1149750	4806.089844	600	I	540	553	1
7AZ59-1	1997-04-04 0(	855182.625	1149656	4825.089844	600	I	554	572	1
7AZ60-1	1997-11-10 0(	855143.5	1149572	4829.830078	600	I	556	577	1
7AZ62-2	1997-11-17 0(	855149	1149502	4844.390137	620	R	564	583	1
7AZ77-3	1998-05-05 0(	855125.6875	1148772	4846.930176	620	BL	552	566	
7AZ78-3	1998-04-30 0(	855171.875	1148680	4844.509766	630	BL	550	565	
7AZ78-4	1998-05-06 0(	855164	1148714	4844.939941	630	I	589	599	1
7AZ79-1	1998-04-29 0(	855080.625	1148677	4844.319824	630	BL	548	560	
7AZ79-2	1998-06-23 0(	855065.3125	1148636	4843.330078	520	I	471	489	
7AZ80-1	1998-05-04 0(	855169	1148591	4844.490234	630	BL	553	571	
7AZ81-1	1998-04-30 0(	855075.125	1148576	4842.870117	630	BL	545	552	
7AZ81-2	1998-04-30 0(	855123.625	1148563	4844.189941	630	BL	548	553	
7AZ83-3	1998-05-19 0(	855088.3125	1148412	4850.990234	630	I	551	564	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
7AZ83-4	1998-06-29 0(	855110.125	1148465	4848.25	520	R	472	496	
7AZ85-3	1998-06-30 0(	855102.6875	1148388	4857.100098	620	BL	485	505	
7AZ88-4	1998-08-11 0(	855147.125	1148205	4865.009766	630	BL	580	599	
7AZ89-1	1998-05-28 0(	855099.875	1148150	4856.52002	640	BL	575	590	
7BA57-2	1997-11-20 0(	855271.5	1149750	4846.299805	620	I	576	588	1
7BA59-1	1997-11-11 0(	855261.1875	1149658	4837.220215	600	R	562	580	1
7BB55-1	1997-11-12 0(	855392.3125	1149826	4834.580078	600	I	559	573	1
7BB57-1	1997-11-11 0(	855331.375	1149727	4848.560059	620	I	573	587	1
7BB59-1	1997-11-20 0(	855389.6875	1149683	4849.72998	620	I	569	588	1
7BC107-2	1997-10-02 0(	855461.625	1147236	4877.839844	560	R	525	540	
7BC56-1	1997-11-12 0(	855451.6875	1149807	4835.040039	600	I	562	574	1
7BC57-3	1998-02-04 0(	855417.5	1149745	4843.339844	610	R	566	579	1
7BC59-2	1997-11-25 0(	855479	1149662	4852.390137	610	I	573	593	1
7BC60-2	1997-11-24 0(	855456.8125	1149587	4851.22998	620	I	571	587	1
7BD102-1	1997-06-19 0(	855537.3125	1147498	4876.279785	540	R	500	516	
7BD60-1	1997-02-26 0(	855527.3125	1149628	4853.709961	620	R	567	595	
7BE59-1	1997-11-12 0(	855601.5	1149681	4855.259766	610	I	574	595	1
7BE60-1	1998-01-21 0(	855609.5	1149586	4855.580078	620	R	575	595	1
7BE61-1	1997-06-18 0(	855690.6875	1149527	4858.25	620	I	572	590	
7BE63-1	1997-12-18 0(	855687.1875	1149450	4858.580078	620	R	580	600	1
7BE66-1	1997-12-18 0(	855671.3125	1149302	4859.299805	620	R	582	599	1
7BE68-2	1997-03-13 0(	855629.3125	1149219	4858.600098	640	I	590	603	1
7BE70-1	1998-02-11 0(	855653.875	1149083	4856.47998	620	I	582	598	1
7BE72-1	1998-02-04 0(	855639.125	1149003	4854.919922	620	I	565	584	1
7BF69-2	1998-02-09 0(	855669	1149154	4857.75	620	R	581	598	1
7BF72-2	1998-02-12 0(	855748.8125	1148984	4857.200195	620	I	570	587	1
7BF74-1	1997-05-13 0(	855712.875	1148917	4855.569824	620	R	565	589	1
7BF76-2	1998-02-12 0(	855746.6875	1148838	4854.600098	620	R	551	563	
7BF96-1	1997-03-20 0(	855724.375	1147783	4903.75	560	R	515	535	
7BG100-1	1997-03-19 0(	855823.6875	1147597	4902.25	580	R	508	560	
7BG112-1	1997-03-19 0(	855868.375	1147011	4900.240234	580	R	517	550	
7BG75-1	1998-02-05 0(	855806.5	1148880	4856.850098	620	R	565	585	1
7BG76-1	1998-02-09 0(	855849.375	1148781	4856.299805	620	I	563	580	1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
7BG92-1	1997-08-08 0(	855812.125	1147989	4907.310059	580	R	553	570	
7BH118-1	1997-06-25 0(	855958.375	1146679	4912.439941	570	R	538	555	
7BH120-1	1997-06-26 0(	855945.625	1146572	4918.97998	670	I	547	564	1
7BH73-1	1997-07-22 0(	855977.625	1148913	4867.330078	680	I	570	592	1
7BH92-2	1997-03-26 0(	855976.875	1147988	4894.450195	640	I	598	620	1
7BI75-1	1998-02-10 0(	855994.8125	1148824	4865	620	I	566	589	1
7BI77-1	1998-02-11 0(	856040.3125	1148736	4866.600098	620	I	567	595	
7BI84-1	1998-08-20 0(	856070	1148425	4866.950195	620	R	562	585	1
7BI85-2	1998-09-01 0(	855988.875	1148350	4866.109863	610	I	560	572	
7BI88-1	1998-09-11 0(	856084.3125	1148208	4870.680176	610	MISC	565	582	
7BJ82-1	1997-07-21 0(	856151.875	1148460	4871.620117	620	R	561	583	1
7BJ86-1	1998-09-02 0(	856105.5	1148285	4871.160156	610	I	564	583	1
7MW1	1997-04-25 0(	856394.875	1146987	4953	700	PM	540	680	
7MW10	1997-06-10 0(	855182.375	1146711	4864.330078	640	PM	465	622	
7MW11	1997-05-12 0(	856193.6875	1149247	4878.080078	650	PM	580	626	
7MW12	1997-06-10 0(	855154.375	1146992	4881.640137	650	PM	485	638	
7MW13	1997-05-12 0(	856102.5	1149684	4846.540039	600	PM	570	610	
7MW14	1997-06-10 0(	855156.125	1147282	4872.890137	640	PM	485	628	
7MW15	1997-05-13 0(	855825.5	1150085	4824.419922	640	PM	540	592	
7MW16	1997-06-12 0(	855131.875	1145966	4944.200195	720	PM	555	610	
7MW17	1997-05-29 0(	855368.125	1150173	4850.290039	630	PM	560	611	
7MW18	1997-06-11 0(	855087.375	1145489	4935.779785	720	PM	560	697	
7MW19	1997-06-16 0(	855110.8125	1150034	4811.430176	580	PM	380	570	
7MW2	1997-05-15 0(	856419.3125	1146528	4958.410156	710	PM	535	689	
7MW20	1997-06-12 0(	855117.375	1145013	4889.669922	560	PM	490	640	
7MW21	1997-06-13 0(	854822.125	1144638	4862.669922	620	PM	450	608	
7MW22	1997-07-02 0(	854347.8125	1144700	4880.029785	640	PM	480	624	
7MW23	1997-06-30 0(	854214.875	1145100	4900.069824	670	PM	510	660	
7MW24	1997-06-30 0(	854227.8125	1145388	4896.470215	670	PM	510	650	
7MW25	1997-07-07 0(	854227.875	1145684	4890.810059	670	PM	495	649	
7MW26	1997-07-08 0(	854233.125	1145971	4880.040039	660	PM	490	642	
7MW27	1997-07-07 0(	854194.8125	1146265	4877.109863	660	PM	480	630	
7MW28	1997-07-08 0(	854172.875	1146548	4862.629883	650	PM	480	620	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
7MW29	1997-07-09 0(	854352.3125	1146773	4857.990234	630	PM	470	622	1
7MW3	1997-04-24 0(	856377.375	1147457	4913.209961	665	PM	495	640	
7MW30	1997-07-10 0(	854294.8125	1147060	4835.310059	590	PM	540	585	
7MW31	1997-07-09 0(	854260.8125	1147351	4827.75	590	PM	530	577	
7MW32	1997-07-10 0(	854228	1147642	4844.350098	620	PM	545	596	
7MW33	1997-07-10 0(	854304.625	1147928	4836.359863	620	PM	360	591	
7MW34	1997-07-10 0(	854294.6875	1148216	4827.649902	600	PM	360	587	
7MW35	1997-08-12 0(	854330.875	1148507	4829.790039	620	PM	355	600	
7MW36	1997-08-12 0(	853835.5	1148278	4817.709961	520	PM	350	485	
7MW37	1997-08-12 0(	853483	1148470	4811.759766	500	PM	365	483	
7MW38	1997-08-13 0(	853738.625	1149198	4751.220215	500	PM	380	490	
7MW39-2	1997-09-25 0(	854013.3125	1149413	4768.160156	560	PM	480	525	1
7MW4	1997-05-13 0(	856125.625	1146153	4914.560059	660	PM	500	642	
7MW40	1997-08-14 0(	854032.8125	1149709	4804.759766	580	PM	515	567	1
7MW41	1997-08-19 0(	854044.125	1150003	4833.950195	600	PM	550	597	1
7MW42	1997-08-18 0(	854299.625	1150137	4837.080078	620	PM	550	596	1
7MW43	1997-08-19 0(	854601.5	1150291	4825.310059	600	PM	575	625	1
7MW5	1997-04-23 0(	856401.125	1147946	4890.799805	650	PM	475	620	
7MW6	1997-05-30 0(	855638.125	1146135	4909.689941	680	PM	520	654	
7MW7	1997-05-08 0(	856618.875	1148384	4917.009766	660	PM	600	643	
7MW8	1997-06-11 0(	855262.5	1146438	4878.680176	650	PM	510	634	
7MW9	1997-05-09 0(	856487.6875	1148852	4915.660156	670	PM	600	653	
7TW1	1997-06-18 0(	855300.8125	1149226	4850.299805	535	TW	372	527	
7TW2	1997-06-16 0(	855450.125	1148822	4849.109863	530	TW	365	523	
7TW3	1997-06-12 0(	855746.375	1148496	4855.109863	525	TW	367	519	
7TW4	1997-06-11 0(	856228.3125	1148404	4876.77002	525	TW	470	524	
7TW5	1997-07-14 0(	855231.5	1148130	4870.350098	460	TW	390	450	
7TW6	1997-07-14 0(	854859.875	1147678	4847.240234	520	TW	365	515	
8U209-1	1997-10-23 0(	837088	1162328	4616.72998	416	BL	400	415	
8X153-1	1997-10-22 0(	837300.8125	1159510	4555.379883	265	PT	250	265	
AI-03		849258	1138054	4766	413	R			1
AI-05		849215	1137979	4770	437	R			1
AI-09		849258	1137904	4773	435	R			1

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
AI26		819424	1175800	4351.600098	265	I			
C.R. DW 01		841558.4878	1145218.3		6721	MW	3818	6320	
CI15		819458	1175660	4353.899902	295	I			
CI16		819493	1175680	4355.700195	300	I			
CI21		819458	1175620	4351.399902	296	I			
CI29C		819562	1175560	4357.5	297	I			
CI34		819461	1175743	4351	282	I			
CI5		819424	1175720	4352.600098	300	I			
CI8		819528	1175740	4356.299805	297	I			
CP3C		819493	1175760	4354.700195	280	R			
CP9		819493	1175640	4355.399902	270	R			
CR 18-3		841469.4174	1142130.1		6566	MW	4009	6496	
CRWW-1		843492.3125	1145466	4661.5	1	WW			
CRWW-2		841747.6875	1146424	4646.299805	600	WW			
CRWW-3		844031.1875	1145408	4656.799805	1	WW			
DI100		819253	1175379	4330	278	I			
DI108		819290	1175600	4333	249	I			
DI111		819320	1175540	4337	260	I			
DI20		819146	1175560	4327.799805	300	I			
DI26		819354	1175560	4339.299805	290	I			
DI27		819181	1175500	4331.100098	279	I			
DI29		819250	1175500	4332.600098	280	I			
DI3		819354	1175720	4342.799805	280	I			
DI31		819320	1175500	4338	290	I			
DI33		819285	1175440	4336.899902	280	I			
DI34		819320	1175420	4339.200195	289	I			
DI36		819218	1175441	4331	280	I			
DI37		819253	1175419	4331	280	I			
DI38		819253	1175379	4330	238	I			
DI39		819288	1175358	4333	280	I			
DI40		819324	1175390	4338	315	I			
DI49		819252	1175742	4328	280	I			
DI5		819216	1175680	4327.899902	279	I			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
DI52		819217	1175723	4326	270	I			
DI54		819182	1175782	4325	211	I			
DI59		819113	1175497	4325	280	I			
DI6		819250	1175660	4329.600098	280	I			
DI60		819148	1175478	4326	279	I			
DI61		819148	1175438	4325	280	I			
DI62		819200	1175367	4321	280	I			
DI63		819288	1175318	4330	280	I			
DI64		819323	1175298	4333	280	I			
DI67C		819323	1175258	4325	280	I			
DI69		819246	1175258	4317	280	I			
DI7		819285	1175680	4333.299805	290	I			
DI74		819358	1175239	4326	280	I			
DI79		819427	1175200	4332	280	I			
DI8		819320	1175660	4336.600098	280	I			
DI86		819250	1175535	4331	260	I			
DI91		819252	1175621	4330	260	I			
DI92		819358	1175318	4335	280	I			
DI93		819392	1175259	4333	300	I			
DI94		819288	1175234	4319	260	I			
DI95		819286	1175198	4321	270	I			
DI96		819285	1175720	4330	280	I			
DI98		819392	1175298	4338	270	I			
DI99		819216	1175480	4333	280	I			
DM10		820046	1174459	4368.799805	362	MW			
DM11		820117	1173980	4365.700195	369	MW			
DM14		820330	1172995	4387	395	MW			
DM15		820462	1172739	4404	430	MW			
DM16		820635	1172561	4420	445	MW			
DM17		820048	1174700	4347	355	MW			
DM18		819593	1175079	4354	369	MW			
DM19		819248	1175434	4335	360	MW			
DM20		819640	1175377	4361	383	MW			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
DM21		820010	1173760	4367	358	MW			
DM22		820235	1174467	4367.899902	356	MW			
DM3		819250	1175600	4331	310	MW			
DM4		819667	1175240	4366	380	MW			
DM5		819527	1175603	4357	360	MW			
DM9		819857	1174871	4376	380	MW			
DP10		819216	1175520	4330.799805	280	R			
DP11		819285	1175520	4333.799805	300	R			
DP13		819253	1175460	4333	280	R			
DP14		819288	1175400	4335	280	R			
DP17		819392	1175581	4339	290	R			
DP20		819254	1175702	4327	291	R			
DP22		819183	1175459	4329	280	R			
DP23B		819148	1175519	4326	280	R			
DP27		819218	1175400	4327	280	R			
DP29		819253	1175339	4325	280	R			
DP30		819288	1175279	4324	280	R			
DP31		819357	1175280	4330	280	R			
DP32		819323	1175219	4322	280	R			
DP33		819386	1175224	4329	280	R			
DP36		819285	1175640	4332	260	R			
DP6		819424	1175640	4349.399902	300	R			
DP8		819250	1175580	4330.399902	280	R			
DP9		819320	1175580	4336.200195	280	R			
EI32		819077	1175680	4317.899902	270	I			
EI33		819112	1175660	4319.5	280	I			
EI39		819112	1175620	4320.399902	280	I			
EI43		819078	1175559	4320	270	I			
EI90		819077	1175720	4337	245	I			
EI91		819113	1175741	4318	249	I			
EP11		819148	1175641	4321	280	R			
EP13		819113	1175581	4321	280	R			
EP25		819118	1175702	4319	235	R			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
FI1		819653	1175548	4363	300	I			
FI101		819892	1175060	4379	320	I			
FI102		819754	1174960	4360	320	I			
FI104		819672	1175020	4365	300	I			
FI105		819848	1175080	4378	320	I			
FI107		819876	1175028	4380	320	I			
FI108		819736	1175052	4374	320	I			
FI110		819780	1175080	4376	320	I			
FI111		819675	1175380	4364	295	I			
FI114		819649	1175480	4364	305	I			
FI115		819613	1175500	4361	300	I			
FI116		819628	1175421	4361	289	I			
FI117		819578	1175440	4358	300	I			
FI120		819617	1175440	4363	295	I			
FI122		819813	1175180	4376	320	I			
FI123		819770	1175120	4375	320	I			
FI124		819604	1175020	4351	275	I			
FI125		819835	1175000	4379	317	I			
FI126		819528	1175420	4354	300	I			
FI127		819611	1175380	4354	297	I			
FI128		819630	1175445	4360	300	I			
FI129		819562	1175120	4351	285	I			
FI130		819815	1175060	4378	320	I			
FI131		819805	1175020	4378	320	I			
FI132		819876	1175028	4380	320	I			
FI134		819848	1175080	4378	320	I			
FI136		819597	1175260	4360	300	I			
FI16		819562	1175360	4353.700195	300	I			
FI2		819528	1175500	4357	300	I			
FI22		819528	1175300	4356.100098	310	I			
FI24		819597	1175300	4358.100098	300	I			
FI28		819630	1175445	4360	319	I			
FI32		819631	1175240	4362.899902	300	I			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
FI36		819770	1175240	4373.799805	320	I			
FI37		819597	1175180	4362	300	I			
FI39		819660	1175180	4368.399902	320	I			
FI4		819597	1175500	4361.200195	300	I			
FI40		819701	1175200	4370.100098	318	I			
FI42B		819770	1175205	4374	320	I			
FI44		819597	1175140	4357.299805	300	I			
FI47		819701	1175120	4372.5	317	I			
FI48		819735	1175140	4373.299805	309	I			
FI5		819631	1175480	4363.600098	300	I			
FI52		819631	1175080	4360.200195	300	I			
FI53		819666	1175060	4366	320	I			
FI54		819701	1175080	4372.100098	320	I			
FI56		819770	1175080	4375.899902	320	I			
FI6		819666	1175500	4364.899902	300	I			
FI60		819631	1175000	4361.100098	318	I			
FI62		819701	1175000	4365.700195	320	I			
FI63		819735	1175020	4371.899902	320	I			
FI64		819770	1175000	4373	320	I			
FI66		819839	1175000	4378.799805	320	I			
FI67		819874	1175020	4379.5	340	I			
FI68		819631	1174960	4348.200195	300	I			
FI69		819666	1174940	4363.700195	300	I			
FI7		819701	1175480	4366.799805	300	I			
FI70		819701	1174960	4358.100098	320	I			
FI75		819562	1175120	4351	320	I			
FI76		819556	1175080	4347	300	I			
FI77		819600	1175060	4351	300	I			
FI78		819495	1175481	4352	300	I			
FI81		819839	1175200	4374	319	I			
FI82		819843	1175242	4374	320	I			
FI89		819584	1175220	4360	320	I			
FI97		819530	1175140	4345	320	I			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
FI98		819497	1175120	4335	320	I			
FP11		819631	1175280	4361.100098	320	R			
FP15		819631	1175160	4366.100098	320	R			
FP16		819701	1175160	4371.100098	315	R			
FP21		819701	1175040	4370	320	R			
FP22		819770	1175040	4376.100098	320	R			
FP23		819839	1175040	4378.600098	320	R			
FP27		819597	1175100	4353	320	R			
FP29		819808	1175222	4370	320	R			
FP3		819597	1175460	4361.299805	298	R			
FP33		819598	1174980	4344	280	R			
FP35		819531	1175099	4343	300	R			
FP5		819562	1175400	4354.799805	298	R			
FP6		819631	1175400	4360.399902	304	R			
FP7		819528	1175340	4352.899902	300	R			
FP8		819597	1175340	4356.700195	300	R			
FP9		819666	1175340	4363.799805	320	R			
GI1		819910	1175000	4380.200195	320	I			
GI10		820184	1174960	4382.100098	320	I			
GI106		819604	1174895	4326.5	280	I			
GI108		819558	1174870	4325.600098	300	I			
GI109		819680	1174720	4340.399902	320	I			
GI11		820220	1174940	4388.299805	330	I			
GI110		819595	1174819	4327.399902	280	I			
GI112		819687	1174756	4326.899902	298	I			
GI114		819594	1174777	4326.100098	280	I			
GI115		819666	1174780	4326.799805	300	I			
GI118		819631	1174640	4328	324	I			
GI12		820253	1174960	4386.5	309	I			
GI121		819596	1174697	4327.299805	300	I			
GI123		819702	1174640	4342	318	I			
GI124		820153	1174680	4376.399902	340	I			
GI125		820134	1174713	4368.899902	341	I			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
GI126		820118	1174740	4365.399902	320	I			
GI128		820090	1174700	4355	330	I			
GI129		820090	1174659	4349.100098	320	I			
GI130		820076	1174700	4361.5	330	I			
GI132		820123	1174639	4365	345	I			
GI134		820239	1174668	4379	262	I			
GI135		819623	1174760	4328	260	I			
GI136		819828	1174705	4345	268	I			
GI137		819675	1174700	4342	240	I			
GI138		819812	1174780	4360	301	I			
GI140		820075	1174890	4368	231	I			
GI141		820012	1174700	4345	259	I			
GI142		819858	1174645	4338	286	I			
GI143		0	0	0	310	I			
GI144		819650	1174660	4329	250	I			
GI145		819631	1174639	4332	260	I			
GI147		819860	1174883	4374	300	I			
GI149		819680	1174832	4332	230	I			
GI16		819694	1174881	4340.799805	320	I			
GI18		819769	1174878	4364.5	320	I			
GI2		819908	1174960	4376.5	320	I			
GI21		819873	1174902	4375.799805	320	I			
GI22		819907	1174882	4371.399902	310	I			
GI25		820012	1174900	4370.299805	320	I			
GI27		820082	1174899	4371.600098	320	I			
GI28		820116	1174880	4376.100098	320	I			
GI30		820185	1174880	4384.5	320	I			
GI32		820255	1174880	4391.700195	320	I			
GI35		819631	1174835	4325.899902	300	I			
GI38		819737	1174818	4344.399902	320	I			
GI41		819840	1174841	4370.700195	320	I			
GI42		819874	1174820	4366.799805	320	I			
GI43		819908	1174841	4368	320	I			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
GI46		820017	1174815	4369.299805	320	I			
GI49		820117	1174840	4374	320	I			
GI51		820185	1174840	4378.899902	340	I			
GI56		819872	1174942	4142.399902	320	I			
GI59		819770	1174760	4346.299805	320	I			
GI61		819839	1174760	4354.700195	320	I			
GI62		819874	1174780	4359.100098	320	I			
GI63		819910	1174762	4364.299805	320	I			
GI64		819942	1174782	4221.200195	320	I			
GI67		820044	1174760	4347.5	320	I			
GI68		820087	1174785	4362.100098	340	I			
GI76		819769	1174720	4339.700195	320	I			
GI78		819840	1174719	4328	320	I			
GI79		819875	1174697	4348.899902	320	I			
GI8		820115	1174960	4373.700195	320	I			
GI80		819908	1174720	4356	320	I			
GI81		819943	1174700	4340.600098	320	I			
GI82		819977	1174722	4342.299805	320	I			
GI84		820047	1174720	4346.700195	320	I			
GI91		819735	1174660	4328.899902	318	I			
GI93		819808	1174664	4341.700195	320	I			
GI95		819874	1174659	4338.700195	300	I			
GI97		819943	1174660	4339.700195	320	I			
GI98		819978	1174640	4351.200195	340	I			
GP10		820255	1174920	4393	340	R			
GP11		819660	1174861	4331.5	300	R			
GP13		819805	1174860	4370.5	320	R			
GP14		819874	1174862	4373.399902	320	R			
GP18		820150	1174860	4379.899902	320	R			
GP2		819700	1174920	4339.200195	320	R			
GP23		819914	1174798	4363.700195	320	R			
GP3		819770	1174913	4364.899902	320	R			
GP30		819873	1174740	4360	320	R			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
GP32		820012	1174740	4344.700195	318	R			
GP33		820081	1174740	4348.5	320	R			
GP36		819770	1174680	4340.899902	320	R			
GP38		819909	1174680	4340.100098	320	R			
GP39		819978	1174680	4341.600098	320	R			
GP4		819838	1174922	4377.600098	320	R			
GP45C		819628	1174797	4327.299805	300	R			
GP46		819704	1174800	4338.100098	320	R			
GP47		819666	1174740	4340.799805	300	R			
GP5		819906	1174922	4374.899902	320	R			
GP53		820125	1174680	4364.200195	340	R			
GP54		819811	1174740	4353	230	R			
GP56		819835	1174681	4347	260	R			
GP57		819903	1174681	4343	250	R			
GP58		819973	1174681	4343	250	R			
GP59		819628	1174911	4328	240	R			
GP8		820117	1174920	4376.200195	320	R			
GP9		820186	1174921	4386.5	320	R			
HDHW-1	1995-09-19 0(	836449.1875	1158898	4551.301758	360	BL	295	300	1
HDHW-2	1995-09-25 0(	836750.3125	1162724	4604.041992	460	HW	365	380	
HDHW-3	1995-09-25 0(	839250.1875	1161600	4559.417969	400	HW	328	336	
HDHW-4	1995-09-26 0(	842019.375	1157870	4689.680176	520	HW	446	461	
HDHW-5	1995-09-27 0(	842550.6875	1154051	4706.52002	560	HW	421	435	
HDWW1	1998-09-10 0(	835615.3125	1158973	4527.709961	660	WW	521	529	
HI100		819909	1174240	4338.100098	300	I			
HI101		819943	1174220	4336.799805	300	I			
HI103		820012	1174220	4337.899902	299	R			
HI104		820047	1174240	4339.5	300	R			
HI105		820081	1174221	4340.5	300	I			
HI106		820115	1174233	4344	300	I			
HI108		820186	1174240	4361.600098	340	R			
HI109		820220	1174220	4363.799805	340	I			
HI11		820116	1174600	4353.700195	340	R			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
HI114		820393	1174240	4358.5	340	I			
HI115		820428	1174220	4378.5	340	I			
HI117		819874	1174180	4349.200195	295	I			
HI12		820151	1174580	4354.700195	340	I			
HI120		819978	1174160	4336.200195	300	I			
HI121		820013	1174180	4339.399902	292	I			
HI122		820047	1174164	4341.600098	340	R			
HI124		820116	1174160	4343.700195	300	I			
HI125		820151	1174180	4344.100098	300	I			
HI126B		820186	1174160	4345.100098	300	R			
HI127		820220	1174180	4347.899902	320	R			
HI130		820324	1174160	4365	320	R			
HI132		820393	1174160	4374.5	340	I			
HI135		819845	1174479	4329.600098	300	I			
HI136		819769	1174400	4330.399902	320	I			
HI137		819812	1174424	4334.899902	320	R			
HI138		819839	1174400	4336.200195	320	I			
HI139		819736	1174341	4336.799805	300	I			
HI145		819770	1174280	4338.5	300	I			
HI146		819804	1174300	4345.100098	300	I			
HI147		819839	1174280	4346.899902	225	I			
HI149		820359	1174580	4381.399902	360	R			
HI15		820254	1174600	4372.299805	340	R			
HI151		820428	1174480	4385	360	I			
HI155		819735	1174580	4341	320	I			
HI156		819874	1174566	4337.799805	320	I			
HI157		819666	1174540	4327	320	I			
HI158		819701	1174520	4330	320	I			
HI159		819735	1174540	4341	340	I			
HI161		820324	1174600	4376.899902	360	I			
HI162		819769	1174240	4346.200195	298	I			
HI163		819804	1174220	4348.600098	295	I			
HI166		819736	1174222	4338.5	300	I			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
HI167		819737	1174181	4339.5	300	R			
HI168		819770	1174160	4349.200195	300	I			
HI169		819805	1174175	4349.700195	300	I			
HI170		820393	1174600	4380.799805	360	R			
HI175		820393	1174520	4385.399902	360	R			
HI177		819705	1174236	4338.700195	300	I			
HI178		819705	1174156	4337	300	I			
HI179		819705	1174282	4337.600098	300	I			
HI180		819702	1174356	4337.799805	300	R			
HI181		819692	1174399	4344.5	320	I			
HI182		819735	1174420	4338.100098	320	I			
HI184		819703	1174480	4331.399902	320	I			
HI185		819734	1174461	4337.899902	320	I			
HI191		820255	1174480	4379.299805	360	R			
HI194		820150	1174207	4353	289	R			
HI197		820218	1174458	4381	360	I			
HI198		819940	1174582	4353	340	R			
HI200		820250	1174160	4355	300	I			
HI201		819740	1174300	4337.200195	225	R			
HI202		820080	1174580	4365.700195	337	R			
HI204		819875	1174420	4331.399902	290	I			
HI205		820174	1174280	4375	319	I			
HI206		819875	1174540	4338.700195	290	R			
HI207		820012	1174540	4360.799805	325	R			
HI208		820082	1174540	4368.299805	325	I			
HI209		820290	1174580	4372	320	I			
HI21		819943	1174540	4352.100098	340	I			
HI22		819978	1174520	4355.600098	340	R			
HI24		820047	1174520	4364.399902	360	I			
HI26		820116	1174520	4371.5	340	R			
HI27		820151	1174540	4369.799805	360	R			
HI28		820186	1174520	4374.100098	360	I			
HI31		820290	1174540	4373.600098	340	R			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
HI32B		820324	1174520	4377.399902	360	I			
HI33		819873	1174462	4330.700195	320	R			
HI34		819908	1174480	4337.5	320	R			
HI35B		819943	1174460	4348.200195	360	I			
HI39B		820082	1174460	4368.700195	360	R			
HI3B		819844	1174591	4335.200195	320	R			
HI40		820116	1174480	4371.5	360	I			
HI41		820151	1174460	4376.700195	360	R			
HI42B		820186.125	1174480	4378.600098	360	R			
HI45B		820289.5	1174460	4382.299805	360	R			
HI46		820324	1174480	4381.299805	360	R			
HI49		819909	1174400	4331.200195	320	R			
HI5		819908	1174600	4339.399902	320	I			
HI50		819943	1174420	4348.200195	340	R			
HI52		820011	1174421	4360.899902	330	I			
HI53		820046	1174401	4364.600098	360	R			
HI54B		820080.3125	1174416	4368.600098	360	R			
HI65		819943	1174340	4333.200195	300	R			
HI66		819978	1174360	4337.5	320	R			
HI67		820013	1174339	4337.5	300	I			
HI68		820047	1174360	4361.600098	340	I			
HI69		820082	1174340	4343.399902	300	R			
HI7		819978	1174600	4353.700195	340	R			
HI70		820116	1174360	4367.299805	340	R			
HI79		820428	1174340	4385.899902	360	I			
HI80		819943	1174300	4334.299805	300	I			
HI81		819978	1174280	4334.5	300	R			
HI82		820012	1174300	4337.799805	300	R			
HI83		820049	1174280	4341.700195	300	I			
HI84		820079	1174301	4344.399902	300	I			
HI86		820151	1174300	4366.399902	340	R			
HI88		820220	1174300	4371.200195	340	I			
HI89		820255	1174280	4360.899902	340	R			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
HI90		820290	1174300	4381.100098	360	R			
HI91		820324	1174280	4376.700195	350	I			
HI93		820393	1174280	4373.399902	360	R			
HI95		819631	1174600	4326	320	I			
HI96		819666	1174580	4328	320	I			
HI97		819701	1174600	4334	280	I			
HI9B		820047	1174600	4363	344	I			
HP1		819805	1174620	4328.5	260	R			
HP10		819978	1174560	4356.299805	360	R			
HP11		820047	1174560	4365.5	360	R			
HP12		820116	1174560	4366.5	360	R			
HP13B		820186	1174560	4369.700195	360	R			
HP14B		820255	1174560	4371.5	340	R			
HP15		819943	1174500	4348.600098	320	R			
HP17B		820085.625	1174503	4366.200195	340	R			
HP18B		820151	1174500	4374.700195	360	R			
HP19B		820222.375	1174502	4374.100098	360	R			
HP2		819874	1174620	4337.600098	320	R			
HP20		820290	1174500	4379.399902	340	R			
HP21B		819909	1174440	7336.799805	320	R			
HP22		819978	1174440	4354.700195	340	R			
HP23		820047	1174440	4364.899902	340	R			
HP24		820116	1174440	4374.799805	360	R			
HP27B		820331.3125	1174445	4385	360	R			
HP28		819947	1174377	4336.799805	320	R			
HP29B		820019.875	1174385	4358.200195	340	R			
HP34		820359	1174380	4388.399902	360	R			
HP35		819978	1174320	4336.200195	320	R			
HP36		820044	1174312	4339.899902	320	R			
HP37		820117	1174320	4355	320	R			
HP38		820186	1174320	4370.100098	340	R			
HP39B		820255	1174320	4377.200195	360	R			
HP4		820012	1174620	4354.799805	360	R			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
HP40B		820320.125	1174316	4383.700195	360	R			
HP41		820393	1174320	4380.600098	360	R			
HP42		819666	1174620	4329	320	R			
HP43		820012	1174260	4337.100098	320	R			
HP44B		820066.375	1174264	4341.200195	340	R			
HP45		820151	1174260	4361.299805	340	R			
HP46		820220	1174260	4367.100098	340	R			
HP48		820358	1174260	4373.799805	340	R			
HP49B		819945.5	1174252	4335	300	R			
HP5		820082	1174620	4350.100098	340	R			
HP51		819978	1174200	4336.200195	320	R			
HP53		820117	1174201	4341.799805	340	R			
HP54		820186	1174200	4346.299805	340	R			
HP55B		820260.375	1174202	4349	340	R			
HP57		820393	1174200	4377.399902	340	R			
HP59B		819833	1174439	4333.399902	300	R			
HP6		820151	1174620	4366.700195	360	R			
HP67		819735	1174620	4335	320	R			
HP68		819701	1174560	4337	320	R			
HP75		819805	1174259	4346	320	R			
HP78		819770	1174195	4345.600098	320	R			
HP80B		820395	1174560	4386.200195	360	R			
HP85		819735	1174380	4334.600098	300	R			
HP87		819700	1174436	4343.200195	320	R			
HP9		819909	1174560	4347.200195	304	R			
HP90		820325	1174560	4377.299805	340	R			
HP95B		819875	1174500	4338.799805	296	R			
HP96		820219	1174621	4375	282	R			
IW-07	1986-03-25 0(	849664	1137243	4788.5	465	I			
IW-09	1986-10-10 0(	849938	1137190	4790.200195	477	R			
KI136B		820328	1172930	4407	302	I			
LI100		820361	1172460	4405	265	I			
LI103		820462	1172440	4417	318	I			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
LI105		820532	1172440	4424	325	R			
LI108		820637	1172460	4424	320	I			
LI109		820672	1172439	4428	330	R			
LI110		820708	1172460	4430	330	R			
LI119		820262	1172394	4380	299	I			
LI120		820394	1172400	4405	310	I			
LI121		820440	1172358	4407	308	I			
LI122		820462	1172400	4413	314	I			
LI123		820292	1172381	4386	289	I			
LI124		820532	1172400	4426	338	I			
LI128		820416	1172397	4405	276	I			
LI131		820590	1172395	4427	326	I			
LI132		820637	1172395	4431	321	I			
LI133		820692	1172385	4432	336	I			
LI139		820282	1172324	4386	285	R			
LI141		820357	1172320	4395	300	R			
LI142		820397	1172319	4399	276	I			
LI143B		820445	1172296	4396	278	I			
LI145		820523	1172311	4420	319	I			
LI146		820570	1172305	4426	324	I			
LI147B		820616	1172305	4429	330	I			
LI148		820664	1172301	4435	332	PT			
LI15		820326	1172800	4384	380	R			
LI152		820295	1172449	4398	300	I			
LI155		820404	1172880	4397	269	I			
LI16		820360	1172820	4394	289	R			
LI17		820395	1172800	4397	290	I			
LI19		820468	1172791	4406	297	R			
LI20		820498	1172819	4398	320	R			
LI21		820532	1172800	4399	305	R			
LI26		820327	1172751	4387	275	I			
LI27		820360	1172741	4389	279	R			
LI28		820395	1172760	4389	272	R			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
LI29		820429	1172740	4396	294	I			
LI3		820294	1172860	4391	299	I			
LI30		820464	1172760	4403	300	I			
LI32		820533	1172760	4406	310	R			
LI33		820568	1172740	4408	318	I			
LI34		820603	1172760	4404	310	I			
LI38		820326	1172681	4402	304	I			
LI39		820360	1172693	4397	298	I			
LI40		820394	1172681	4402	290	R			
LI41		820429	1172700	4396	291	R			
LI42		820463.875	1172680	4396.600098	298	R			
LI43		820500	1172692	4303	305	R			
LI44		820533	1172680	4407	303	R			
LI45		820568	1172700	4411	321	R			
LI46		820602	1172680	4414	315	I			
LI47		820638	1172700	4415	325	I			
LI48		820673	1172680	4418	320	R			
LI5		820363	1172860	4400	300	R			
LI50		820393	1172620	4403	320	R			
LI51		820328	1172640	4405	319	R			
LI54		820429	1172620	4407	300	R			
LI55		820463	1172640	4403	303	R			
LI56		820498	1172620	4404	323	I			
LI57		820533	1172640	4403	307	I			
LI58		820572	1172613	4406	318	R			
LI59		820602	1172640	4414	333	R			
LI60		820637	1172620	4416	331	I			
LI64		820293	1172581	4403	310	I			
LI65		820327	1172561	4406	306	R			
LI66		820361	1172580	4411	308	R			
LI67		820396	1172560	4414	308	I			
LI68		820429	1172580	4412	309	I			
LI70		820498	1172580	4408	317	R			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
LI71		820533	1172560	4410	324	R			
LI73		820602	1172560	4409	318	R			
LI74		820637	1172580	4415	330	R			
LI75		820673	1172560	4420	330	I			
LI76		820708	1172580	4421	320	I			
LI8		820467	1172865	4393	250	I			
LI80		820293	1172501	4402	289	I			
LI81		820327	1172520	4406	291	I			
LI82		820361	1172501	4409	290	R			
LI84		820428	1172501	4420	321	I			
LI85		820463	1172520	4416	329	I			
LI86B		820497	1172500	4406	318	R			
LI9		820500	1172855	4392	300	I			
LI90		820637	1172499	4421	325	R			
LI91		820672	1172520	4422	330	R			
LI92		820707	1172499	4427	327	I			
LI99		820325	1172440	4397	300	I			
LP10		820362	1172780	4384	320	I			
LP11		820435	1172775	4400	327	R			
LP12		820501	1172772	4406	324	I			
LP13		820570	1172770	4399	319	R			
LP14		820322	1172718	4396	316	R			
LP16		820359.1875	1172819	4392.100098	333	R			
LP17		820537	1172715	4407	340	I			
LP19		820289.125	1172659	4399.200195	360	I			
LP20		820358	1172655	4404	339	R			
LP21		820428	1172660	4401	323	I			
LP22		820500	1172653	4398	321	R			
LP24		820642	1172653	4417	338	R			
LP25		820325	1172599	4407	340	I			
LP28		820532	1172600	4406	322	R			
LP29		820607	1172598	4409	321	I			
LP30		820675	1172599	4419	340	R			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
LP32		820358.3125	1172540	4408.700195	340	I			
LP37		820705.1875	1172540	4422.5	340	R			
LP39		820323	1172476	4402	341	R			
LP40		820396	1172480	4409	321	I			
LP41B		820462.125	1172481	4421	322	R			
LP43		820601.3125	1172480	4417	320	R			
LP48		820359	1172422	4400.799805	301	R			
LP49		820428	1172420	4409	323	R			
LP5		820325	1172835	4393	304	I			
LP50		820497	1172420	4419	335	R			
LP51		820533	1172420	4424	335	I			
LP52		820637	1172420	4427	332	R			
LP53		820706	1172420	4432	330	I			
LP58		820328	1172358	4388	303	R			
LP59		820365	1172358	4400	300	R			
LP6		820395	1172835	4401	304	R			
LP62		820414	1172720	4393	321	I			
LP63		820298	1172424	4391	300	R			
LP65		820407	1172354	4404	320	R			
LP66		820448	1172354	4404	321	R			
LP67		820489	1172354	4407	321	R			
LP68		820535	1172350	4415	320	R			
LP69		820580	1172350	4426	330	R			
LP7		820458	1172835	4399	323	R			
LP70		820626	1172350	4432	339	R			
LP75		820489	1172540	4413	278	I			
LP8B		820530.125	1172837	4395	317	R			
M10		818910	1175150	4353	295	MW			
M12		820455	1174515	4394	340	MW			
M15		819409	1174798	4342	252	MW			
M19		820230	1175315	4390	300	MW			
M2		818636	1175700	4352	367	MW			
M23		820618	1174913	4405	360	MW			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
M24		820773	1174420	4436	420	MW			
M25		819321	1174368	4384	350	MW			
M26		820790	1173905	4402	354	MW			
M27		819485	1173890	4342	254	MW			
M28		820858	1173301	4409	309	MW			
M29		819656	1173213	4370	299	MW			
M30		821054	1172696	4451.899902	349	MW			
M31		819864	1172655	4354.399902	257	MW			
M32		821002	1172095	4447.100098	370	MW			
M33		819899	1172060	4388.299805	320	MW			
M4		819996	1175716	4372	297	MW			
MW-06	1984-07-15 0(	849918	1137256	4786.799805	460	I			
MW-07	1984-07-15 0(	849893	1137140	4790.799805	474	R			
MW-08	1984-07-16 0(	849554	1137158	4797.100098	476	I			
MW100S	1992-11-02 0(	842069.8125	1151578	4659.390137	349	SM	88	134	
MW101	1992-10-27 0(	842627	1151376	4701.220215	193.7	PM	322	467	
MW102	1992-10-27 0(	842535.375	1151818	4694.430176	158	PM	302	468	
MW103	1992-10-29 0(	842481.625	1152268	4698.330078	326.79999	PM	310	490	
MW104	1992-10-29 0(	842229.8125	1152643	4629.009766	265	PM	249	428	
MW105	1992-10-27 0(	841785.375	1152691	4622.799805	430	PM	242	408	
MW106	1992-10-28 0(	841612.8125	1152473	4595.549805	410	PM	194	387	
MW107	1992-10-27 0(	841486.8125	1152218	4590.189941	231	PM	196	368	
MW108	1992-10-27 0(	841468.8125	1151917	4637.120117	455	PM	244	429	
MW109	1992-10-26 0(	841396.625	1151560	4628.410156	440	PM	238	420	
MW110	1992-10-26 0(	841503.875	1151120	4639.339844	256.60001	PM	255	403	
MW111	1992-10-26 0(	841678.625	1150701	4647.879883	271.79999	PM	287	450	
MW112S	1992-10-29 0(	841942.625	1152194	4649.959961	320.29999	SM	85	112	
MW113D	1992-10-28 0(	841942.625	1152214	4649.799805	560	DM	483	542	
MW114	1993-01-28 0(	840922.8125	1146847	4661.740234	235.2	PM	272	350	
MW115	1993-01-28 0(	840739.375	1147084	4676.180176	216.60001	PM	285	380	
MW116	1993-01-28 0(	840810.625	1147377	4662.600098	357.39999	PM	289	360	
MW117S	1993-05-21 0(	842219.125	1150949	4680.939941	134.7	SM	240	256	
MW-11S	1986-10-16 0(	849906	1137198	4788.700195	290	SM			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
MW-12D	1986-10-17 0(	849922	1137186	4789.899902	656	DM			
MW17	1988-09-08 0(	841839.375	1146212	4651.5	340	MW	260	333	
MW17-2	1988-09-20 0(	841839.875	1146228	4650.399902	360	PM	254	337	
MW18	1988-09-09 0(	841424.6875	1146438	4627	325	PM	249	311	
MW19	1988-09-09 0(	841511	1146725	4589.600098	290	PM	190	274	
MW20	1988-09-08 0(	841215.375	1146774	4646.700195	380	PM	283	358	
MW21	1988-09-08 0(	841034.1875	1147009	4657	224.2	MW	300	337	
MW22	1988-09-08 0(	840916.375	1147291	4675.399902	345	MW	286	353	
MW23	1988-09-08 0(	841044.875	1147562	4663.200195	39.599998	PM	303	355	
MW24	1988-09-09 0(	841260.8125	1147762	4667.700195	55.599998	PM	300	355	
MW25	1988-09-08 0(	841549.125	1147842	4619.399902	39.299999	PM	225	303	
MW26	1988-09-08 0(	841850.3125	1147850	4585.600098	85.699997	PM	183	270	
MW27	1988-09-08 0(	842307.125	1147655	4566.5	337.10001	PM	160	242	
MW28	1988-09-08 0(	842783.1875	1147524	4609.299805	322.5	PM	203	295	
MW29	1988-09-07 0(	843031.875	1147097	4585.5	169.39999	PM	180	260	
MW30	1988-11-15 0(	843035.625	1146600	4588.399902	141.2	PM	175	380	
MW31	1988-09-08 0(	843139.3125	1146119	4583.100098	39.599998	PM	180	400	
MW32	1988-09-13 0(	843388.1875	1145691	4649.299805	115.3	PM	241	409	
MW33	1988-09-13 0(	843279.6875	1145198	4661.100098	84.199997	MW	254	431	
MW34	1988-09-13 0(	842900.5	1144949	4678.100098	440	MW	296	456	
MW35	1988-09-13 0(	842471.375	1145199	4662.600098	500	PM	270	464	
MW36	1988-09-12 0(	842228.625	1145511	4650.5	480	PM	258	455	
MW37	1988-09-13 0(	842228.5	1145911	4643.700195	480	PM	240	446	
MW38	1988-11-09 0(	842260.875	1146221	4641	460	PM	340	445	
MW39	1988-11-09 0(	842461.1875	1146452	4625.399902	440	PM	340	425	
MW40	1988-11-09 0(	842733.125	1146532	4619.100098	440	PM	340	410	
MW41	1989-11-06 0(	843651.1875	1145278	4664.100098	132.8	PM	240	430	
MW42	1989-11-07 0(	843800.375	1144800	4644.899902	137.8	PM	240	390	
MW43	1989-11-09 0(	843919.875	1144450	4613.100098	95.5	PM	200	345	
MW44	1989-11-02 0(	842549.875	1144399	4701.700195	30.700001	PM	290	485	
MW45	1989-11-10 0(	842400	1144801	4681.200195	171.39999	PM	300	480	
MW45D	1988-06-06 0(	841987.3125	1147221	4570.5	520	DM	407	472	
MW46S	1988-06-07 0(	841983.625	1147200	4571.299805	100	SM	67	99	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
MW47D	1988-06-07 0(	842320.375	1146883	4573.399902	520	DM	417	484	
MW48S	1988-06-08 0(	842322.1875	1146859	4572.100098	110	SM	62	86	
MW49D	1988-06-08 0(	842536.625	1146389	4635.600098	600	DM	482	554	
MW50S	1988-06-08 0(	842535.375	1146368	4636.799805	170	SM	137	170	
MW51D	1988-06-08 0(	841526.1875	1147559	4645.100098	580	DM	490	546	
MW52S	1988-06-09 0(	841543	1147546	4644.200195	165	SM	135	156	
MW53D	1988-09-15 0(	842647.6875	1145771	4641.700195	600	DM	500	567	
MW54S	1988-09-15 0(	842650.5	1145750	4644.399902	180	SM	136	160	
MW55D	1989-11-02 0(	843186.875	1145214	4662.399902	600	DM	500	560	
MW56S	1989-11-06 0(	843190	1145194	4662.899902	148.7	SM	174	190	
MW57D	1989-11-06 0(	842871.125	1144794	4684	143.39999	DM	520	587	
MW58S	1989-11-08 0(	842866.8125	1144772	4684.700195	219.39999	SM	172	205	
MW59	1992-06-17 0(	841455.3125	1146866	4629.990234	340	MW	245	330	
MW61	1992-06-18 0(	841660.875	1146742	4614.990234	320	MW	210	310	
MW62	1992-06-18 0(	842747.3125	1144072	4706.689941	500	PM	305	485	
MW63	1992-06-17 0(	843151.625	1143953	4703.310059	480	PM	310	480	
MW64	1992-06-17 0(	843621.375	1144067	4656.620117	440	PM	280	415	
MW65D	1992-06-18 0(	843399	1144451	4675.52002	600	DM	500	575	
MW66S	1992-06-19 0(	843400.625	1144431	4675.560059	247.7	SM	152	180	
MW66S-2	1992-06-26 0(	843400	1144424	4675.970215	269.79999	SM	152	178	
MW67D	1992-06-30 0(	843147	1148712	4632.330078	560	DM	470	530	
MW68S	1992-07-01 0(	843148.5	1148693	4632.220215	266.20001	SM	55	95	
MW69D	1992-06-25 0(	843012.3125	1148396	4623.540039	550	DM	462	522	
MW70S	1992-06-26 0(	843014	1148377	4623.330078	39.599998	SM	95	115	
MW71D	1992-06-24 0(	843026.625	1147996	4627.100098	560	DM	465	530	
MW72S	1992-06-26 0(	843029.125	1147977	4627.279785	21.6	SM	95	125	
MW73	1992-06-30 0(	843368.3125	1147423	4629.759766	153.89999	PM	210	410	
MW74	1992-07-01 0(	843559.125	1147806	4633.75	235.39999	PM	213	413	
MW75	1992-07-01 0(	843531.625	1148238	4640	226.5	PM	222	422	
MW76	1992-07-06 0(	843890	1148615	4664	145.2	PM	242	472	
MW77	1992-07-01 0(	843709.8125	1149025	4650.669922	102.1	PM	235	460	
MW78	1992-08-17 0(	843347.625	1149283	4637.080078	248.8	PM	222	410	
MW78T	1992-09-14 0(	842991.625	1149286	4631.640137	148.5	TW	222	401	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
MW79	1992-08-17 0(	843069.8125	1149640	4650.5	169.60001	PM	242	421	
MW80	1992-08-18 0(	842959.375	1150089	4673.640137	232.5	PM	262	457	
MW81	1992-08-18 0(	842819.8125	1150520	4685.379883	218.10001	PM	275	477	
MW82	1992-09-03 0(	842036.3125	1150429	4651.339844	440	PM	252	427	
MW83	1992-09-03 0(	841957.625	1150151	4641.890137	420	PM	242	413	
MW84	1992-09-02 0(	841854.375	1149896	4632.649902	440	PM	228	410	
MW85	1992-09-02 0(	841615.5	1149528	4605.410156	138.89999	PM	226	385	
MW86	1992-09-02 0(	841684.375	1149099	4569.299805	37.5	PM	170	349	
MW87	1992-09-02 0(	841850.8125	1148655	4566.939941	86.400002	PM	162	343	
MW87T	1992-09-14 0(	842144.3125	1148623	4569.990234	360	TW	160	340	
MW88	1992-09-02 0(	842210.125	1148315	4591.379883	380	PM	185	360	
MW89	1992-09-01 0(	842522.3125	1147932	4601.540039	420	PM	193	374	
MW90	1992-09-14 0(	842774.8125	1150951	4685.22998	228.2	PM	276	456	
MW91D	1992-09-02 0(	842622.6875	1148955	4621.5	540	DM	447	511	
MW92S	1992-09-02 0(	842623.3125	1148935	4621.779785	302	SM	50	78	
MW93D	1992-08-26 0(	842080.3125	1149331	4610.580078	540	DM	440	508	
MW94S	1992-08-26 0(	842081	1149310	4609.100098	144.2	SM	42	82	
MW95D	1992-08-24 0(	842568.6875	1149566	4634.75	560	DM	462	528	
MW96S	1992-08-25 0(	842568.875	1149547	4634.430176	346.70001	SM	62	94	
MW97D	1992-10-29 0(	842315.8125	1150898	4678.029785	590	DM	513	572	
MW98S	1992-10-30 0(	842314.8125	1150878	4677.549805	255	SM	93	152	
MW99D	1992-10-29 0(	842068.6875	1151598	4661.600098	590	DM	489	550	
NPHW-1	1995-06-30 0(	853025.3125	1150580	4828.52002	520	R	478	488	
NPHW-10B	1995-07-14 0(	855320	1150324	4852.540039	460	I			
NPHW-10D	1995-07-17 0(	855537.8125	1150543	4862.759766	460	HW	426	442	
NPHW-11	1995-07-12 0(	854853.125	1149263	4840.27002	560	HW	471	474	
NPHW-12	1995-07-11 0(	854469.3125	1144632	4871.339844	640	HW	600	605	
NPHW-13	1995-07-07 0(	855871.375	1147223	4901.169922	580	HW	542	553	
NPHW-14	1995-07-05 0(	855996.3125	1148204	4873.160156	620	HW	582	598	
NPHW-15	1995-06-27 0(	853576.625	1150282	4789.879883	420	R	353	368	
NPHW-16	1995-06-30 0(	855064.8125	1148626	4843.009766	620	R	594	608	1
NPHW-2	1995-06-27 0(	852472.8125	1151218	4834.709961	540	R	508	523	
NPHW-3A	1995-07-13 0(	853891.3125	1150563	4820.910156	540	R	501	508	

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
NPHW-5	1995-06-26 0(	851878.125	1151218	4849.740234	560	R	514	525	
NPHW-7	1995-06-30 0(	853068.625	1149603	4800.600098	420	R	361	366	
NPHW-8	1995-07-11 0(	854681.8125	1147309	4871.370117	660	HW	612	631	
NPHW-9A	1995-07-07 0(	854686.3125	1148074	4834.399902	620	HW	550	560	
RS19		819240	1175538	4332	140	MW			
RS26		819244	1175016	4343	280	MW			
RS27		819127	1174842	4359	320	MW			
RS34		819325	1175640	4338	150	MW			
RS39		819620	1175360	4359	174	MW			
RS84		819703	1175070	4373	185	MW			
SM10		820100	1174450	4365.600098	170	MW			
SM11		820118	1173941	4369.200195	164	MW			
SM15		819800	1174275	4353.600098	146	MW			
SM16		820220	1174280	4368.700195	167	MW			
SM17		819848	1174625	4336	146	MW			
SM18		819893	1173851	4352.399902	152	MW			
SM19		820272	1173660	4371.399902	160	MW			
SM23		820255	1173375	4372.5	160	MW			
SM24		820348	1173232	4375	159	MW			
SM25		820322	1173019	4391	172	MW			
SM26		820428	1172760	4401	190	MW			
SM27		820359	1172523	4413	210	MW			
SM28		820635	1172516	4422	216	MW			
SM4		819666	1175245	4369	179	MW			
SM7		819526	1175565	4353	165	MW			
SM9		819894	1174851	4372	180	MW			
SSM10		820034	1174450	4364.700195	135	MW			
SSM11		820034	1174279	4368.700195	135	MW			
SSM18		820266	1173341	4374	128	MW			
SSM19		820360	1172967	4393	144	MW			
SSM3		819491	1175628	4356	140	MW			
SSM34		820432	1172795	4402	128	MW			
SSM35		820359	1172556	4412	143	MW			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
SSM36		820622	1172544	4417	128	MW			
SSM37		819905	1173812	4352	109	MW			
SSM38		820106	1173920	4369	128	MW			
SSM39		820288	1173672	4371	129	MW			
SSM4		819080	1175584	4320	100	MW			
SSM40		820334	1173238	4375	120	MW			
SSM41		819833	1175010	4379	159	MW			
SSM42		819244	1175480	4334	113	MW			
SSM5		819555	1175378	4356.700195	139	MW			
SSM6		819749	1175120	4375	150	MW			
SSM7		820215	1174831	4380	185	MW			
SSM8		819927	1174647	4339	115	MW			
SSM9		819839	1174269	4348.700195	100	MW			
T12		818789	1175688	4346.700195	300	MW			
T17		820045	1175193	4388	320	MW			
T18		819929	1175474	4377	319	MW			
T23		820455	1174919	4405	360	MW			
T24		819069	1175285	4326	282	MW			
T25		818927	1175544	4338	273	MW			
T27		820236	1175102	4390	322	MW			
T29		820369	1174687	4389	370	MW			
T34		820574	1174411	4403.600098	360	MW			
T35		819454	1174594	4358	310	MW			
T36		819568	1174360	4361	320	MW			
T37		819553	1174175	4362.799805	282	MW			
T38		820578	1174211	4392.899902	360	MW			
T39		819655	1174003	4341.299805	275	MW			
T40		820531	1174043	4384.100098	360	MW			
T41		819680	1173805	4361	276	MW			
T42		820593	1173848	4389.200195	318	MW			
T43		819700	1173612	4364.5	274	MW			
T44		820544	1173661	4383	293	MW			
T45		819789	1173430	4342.5	252	MW			

TOTAL_HOLE_ID	DRILL_DATE	EAST	NORTH	ELEV	PILOT_TD	WELL_TYPE	REAMED_INT_TOP_1	REAMED_INT_BTM_1	MIT_PASSED
T46		820569	1173470	4391.399902	328	MW			
T47		819975	1173350	4374	265	MW			
T48		820606	1173273	4404	310	MW			
T49		820080	1173172	4388	271	MW			
T50		820575	1173070	4395	325	MW			
T51		820091	1172988	4389	289	MW			
T52		820703	1172916	4417.100098	342	MW			
T53		820077	1172790	4377.600098	277	MW			
T54		820800	1172752	4425.399902	370	MW			
T55		820110	1172590	4391.299805	285	MW			
T56		820903	1172585	4434.200195	350	MW			
T57		820015	1172422	4363.299805	266	MW			
T58		820900	1172380	4453.100098	356	MW			
T59		820055	1172240	4396.5	305	MW			
T6		819826	1175755	4367	300	MW			
T60		820902	1172178	4435.299805	344	MW			
T61		820355	1172110	4378.100098	270	MW			
T62		820635	1172114	4420.100098	312	MW			
TW-0001	1986-03-05 0(	849617	1137339	4786	460	R			
TW-0002	1986-03-04 0(	849668	1137339	4786.299805	480	I			
WCOW-04	1979-08-15 0(	849318	1137968	4770	290	SM			
WCOW-23	1982-06-22 0(	849760	1137117	4790.299805	475	I			
WCOW-37	1983-07-16 0(	851842	1140527	4775.299805	693	DM			
WW-5	1988-12-29 0(				783.000000	WW			

URANIUM ONE USA, INC. - WILLOW CREEK PROJECT
2015 4th QUARTER WDEQ REPORT
MECHANICAL INTEGRITY TEST RESULTS

Attachment A

WELL ID	INTEGRITY	DATE	CASING TYPE	BOTTOM CASING DEPTH	LOWER PACKER DEPTH	INITIAL PRESSURE	FINAL PRESSURE	PRESSURE LOSS	PERCENT LOSS	COMMENTS
7P-74	PASS	10/26/2015	PVC	435	415	168	155	-13	-7.7%	
7P-1	PASS	10/26/2015	PVC	588	565	168	156	-12	-7.1%	
7I-18	PASS	10/27/2015	PVC	565	550	168	161	-7	-4.2%	
7P-2	PASS	10/28/2015	PVC	588	565	168	145	-23	-13.7%	
7I-19	PASS	10/28/2015	PVC	465	450	168	159	-9	-5.4%	
7I-4	PASS	10/28/2015	PVC	584	555	168	156	-12	-7.1%	
7I-3	PASS	10/28/2015	PVC	587	565	168	157	-11	-6.5%	
7I-14	PASS	10/29/2015	PVC	582	560	168	158	-10	-6.0%	
7I-124	PASS	11/3/2015	PVC	558	530	168	161	-7	-4.2%	
7I-120	PASS	11/3/2015	PVC	554	530	168	158	-10	-6.0%	
7I-121B	PASS	11/3/2015	PVC	553	530	168	153	-15	-8.9%	
7P-52	PASS	11/3/2015	PVC	553	528	168	155	-13	-7.7%	
7P-51	PASS	11/4/2015	PVC	554	530	168	158	-10	-6.0%	
7I-118	PASS	11/4/2015	PVC	556	530	168	161	-7	-4.2%	
7P-50	PASS	11/4/2015	PVC	552	530	168	162	-6	-3.6%	
7I-123	PASS	11/4/2015	PVC	552	530	168	152	-16	-9.5%	
7I-115	PASS	11/5/2015	PVC	564	540	168	154	-14	-8.3%	
7I-119	PASS	11/5/2015	PVC	553	530	168	159	-9	-5.4%	
7I-122	PASS	11/5/2015	PVC	552	530	168	158	-10	-6.0%	
7P-42	PASS	11/5/2015	PVC	560	540	168	161	-7	-4.2%	
7I-173	PASS	11/9/2015	PVC	535	510	168	154	-14	-8.3%	
7I-114	PASS	11/9/2015	PVC	548	520	168	163	-5	-3.0%	
7I-195	PASS	11/10/2015	PVC	497	470	168	165	-3	-1.8%	
7AV-56-1	PASS	11/11/2015	PVC	480	465	168	160	-8	-4.8%	
7I-21	PASS	11/12/2015	PVC	582	555	168	154	-14	-8.3%	
7I-15	PASS	11/12/2015	PVC	595	570	168	158	-10	-6.0%	
7P-5	PASS	11/12/2015	PVC	572	550	168	155	-13	-7.7%	
7I-13	PASS	11/12/2015	PVC	465	440	168	162	-6	-3.6%	
7I-10	PASS	11/16/2015	PVC	475	450	168	162	-6	-3.6%	
7P-3	PASS	11/16/2015	PVC	596	570	168	153	-15	-8.9%	
7P-6	PASS	11/16/2015	PVC	457	430	168	159	-9	-5.4%	
7AT-61-1	PASS	11/17/2015	PVC	432	390	168	152	-16	-9.5%	
7I-24	PASS	11/19/2015	PVC	582	560	168	152	-16	-9.5%	
7P-11	PASS	11/19/2015	PVC	572	550	168	153	-15	-8.9%	
7P-7	PASS	11/19/2015	PVC	576	550	168	162	-6	-3.6%	
7I-221	PASS	11/23/2015	PVC	462	455	168	162	-6	-3.6%	
7I-29	PASS	11/23/2015	PVC	582	560	168	156	-12	-7.1%	
7I-31	PASS	11/23/2015	PVC	582	560	168	158	-10	-6.0%	

URANIUM ONE USA, INC. - WILLOW CREEK PROJECT
2015 4th QUARTER WDEQ REPORT
MECHANICAL INTEGRITY TEST RESULTS

Attachment A

WELL ID	INTEGRITY	DATE	CASING TYPE	BOTTOM CASING DEPTH	LOWER PACKER DEPTH	INITIAL PRESSURE	FINAL PRESSURE	PRESSURE LOSS	PERCENT LOSS	COMMENTS
7I-73	PASS	11/24/2015	PVC	555	550	168	161	-7	-4.2%	
7I-215	PASS	11/24/2015	PVC	384	335	168	158	-10	-6.0%	
7I-136	PASS	11/24/2015	PVC	365	320	168	152	-16	-9.5%	
NPHW-7	PASS	11/24/2015	PVC	361	350	168	164	-4	-2.4%	
7I-89	PASS	11/25/2015	PVC	565	550	168	162	-6	-3.6%	
7I-115	PASS	11/25/2015	PVC	564	540	168	159	-9	-5.4%	
NPHW-11	PASS	11/30/2015	PVC	471	460	168	156	-12	-7.1%	
NPHW-13	PASS	11/30/2015	PVC	542	520	168	158	-10	-6.0%	
NPHW-8	PASS	12/1/2015	PVC	612	595	168	153	-15	-8.9%	
7P-84	PASS	12/2/2015	PVC	455	430	168	152	-16	-9.5%	
7I-63	PASS	12/9/2015	PVC	562	540	168	159	-9	-5.4%	
7I-131	PASS	12/9/2015	PVC	569	550	168	155	-13	-7.7%	
7P-56	PASS	12/9/2015	PVC	378	350	168	157	-11	-6.5%	
7P-61	PASS	12/10/2015	PVC	564	540	168	157	-11	-6.5%	
7I-2	PASS	12/10/2015	PVC	581	560	168	161	-7	-4.2%	
7P-12	PASS	12/14/2015	PVC	592	580	168	154	-14	-8.3%	
7I-12	PASS	12/14/2015	PVC	564	550	168	160	-8	-4.8%	
7P-13B	PASS	12/14/2015	PVC	585	570	168	153	-15	-8.9%	
7I-11	PASS	12/22/2015	PVC	583	570	168	163	-5	-3.0%	
7I-7	PASS	12/23/2015	PVC	601	580	168	165	-3	-1.8%	
7P-8	PASS	12/23/2015	PVC	597	570	168	160	-8	-4.8%	
7I-171	FAILED	10/1/2015	PVC							
7I-187	FAILED	11/11/2015	PVC							
6AT-58-1	FAILED	11/12/2015	PVC							
7I-9	FAILED	11/16/2015	PVC							
7I-8	FAILED	11/17/2015	PVC							
7I-28	FAILED	11/23/2015	PVC							
7I-74B	FAILED	11/25/2015	PVC							
7I-132	FAILED	12/9/2015	PVC							
7I-9B	FAILED	12/14/2015	PVC							
7I-20	FAILED	12/22/2015	PVC							

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MECHANICAL INTEGRITY TEST RESULTS

URANIUM ONE USA, INC. - WILLOW CREEK PROJECT
2015 3RD QUARTER WDEQ REPORT
MECHANICAL INTEGRITY TEST RESULTS

Attachment A

WELL ID	INTEGRITY	DATE	CASING TYPE	BOTTOM CASING DEPTH	LOWER PACKER DEPTH	INITIAL PRESSURE	FINAL PRESSURE	PRESSURE LOSS	PERCENT LOSS	COMMENTS
7P-36	PASS	6/26/2015	PVC	567	540	168	158	-10	-6.0%	
7I-82	PASS	6/26/2015	PVC	562	540	168	162	-6	-3.6%	
7I-84	PASS	6/26/2015	PVC	574	540	168	160	-8	-4.8%	
7P-37	PASS	6/26/2015	PVC	581	560	168	160	-8	-4.8%	
7I-87	PASS	7/13/2015	PVC	592	550	168	154	-14	-8.3%	
7I-85	PASS	7/13/2015	PVC	569	540	168	154	-14	-8.3%	
7I-88	PASS	7/14/2015	PVC	582	540	168	157	-11	-6.5%	
7P-38	PASS	7/14/2015	PVC	574	540	168	154	-14	-8.3%	
7I-90	PASS	7/14/2015	PVC	562	550	168	157	-11	-6.5%	
7P-39	PASS	7/15/2015	PVC	572	540	168	157	-11	-6.5%	
7I-95	PASS	7/17/2015	PVC	560	540	168	157	-11	-6.5%	
7P-40	PASS	7/17/2015	PVC	566	530	168	160	-8	-4.8%	
7I-92	PASS	7/17/2015	PVC	576	540	168	157	-11	-6.5%	
7I-93	PASS	7/20/2015	PVC	560	530	168	156	-12	-7.1%	
7P-41	PASS	7/20/2015	PVC	567	530	168	160	-8	-4.8%	
7I-97	PASS	7/20/2015	PVC	574	540	168	156	-12	-7.1%	
7I-96	PASS	7/20/2015	PVC	570	550	168	153	-15	-8.9%	
7P-42	PASS	7/21/2015	PVC	560	530	168	155	-13	-7.7%	
7I-102	PASS	7/21/2015	PVC	569	540	168	154	-14	-8.3%	
7I-103	PASS	7/22/2015	PVC	560	520	168	157	-11	-6.5%	
7I-105	PASS	7/22/2015	PVC	551	520	168	158	-10	-6.0%	
7P-44	PASS	7/22/2015	PVC	558	520	168	152	-16	-9.5%	
7I-113	PASS	7/23/2015	PVC	552	520	168	153	-15	-8.9%	
7I-110	PASS	7/23/2015	PVC	546	520	168	160	-8	-4.8%	
7P-46	PASS	7/23/2015	PVC	554	520	168	157	-11	-6.5%	
7I-108	PASS	7/23/2015	PVC	564	530	168	158	-10	-6.0%	
7P-47	PASS	7/27/2015	PVC	554	520	168	153	-15	-8.9%	
7I-111	PASS	7/28/2015	PVC	515	510	168	156	-12	-7.1%	
7I-109	PASS	7/31/2015	PVC	564	530	168	159	-9	-5.4%	
7I-117A	PASS	8/5/2015	PVC	570	540	168	158	-10	-6.0%	
7P-49	PASS	8/5/2015	PVC	556	520	168	158	-10	-6.0%	
7I-162	PASS	8/5/2015	PVC	478	440	168	162	-6	-3.6%	
7I-188	PASS	8/6/2015	PVC	457	43-	168	158	-10	-6.0%	
7P-84R	PASS	8/6/2015	PVC	455	435	168	153	-15	-8.9%	
7P-79R	PASS	8/6/2015	PVC	462	440	168	155	-13	-7.7%	
7I-179	PASS	8/6/2015	PVC	462	440	168	160	-8	-4.8%	
7I-180	PASS	8/7/2015	PVC	467	440	168	155	-13	-7.7%	
7I-161	PASS	8/7/2015	PVC	468	440	168	155	-13	-7.7%	

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Attachment A

WELL ID	INTEGRITY	DATE	CASING TYPE	BOTTOM CASING DEPTH	LOWER PACKER DEPTH	INITIAL PRESSURE	FINAL PRESSURE	PRESSURE LOSS	PERCENT LOSS	COMMENTS
7P-68	PASS	8/7/2015	PVC	464	440	168	160	-8	-4.8%	
7I-160	PASS	8/11/2015	PVC	471	440	168	158	-10	-6.0%	
7I-239	PASS	8/11/2015	PVC	474	440	168	162	-6	-3.6%	
7I-77	PASS	8/13/2015	PVC	557	520	168	155	-13	-7.7%	
7P-67R	PASS	8/13/2015	PVC	465	430	168	157	-11	-6.5%	
7I-159	PASS	8/13/2015	PVC	471	440	168	153	-15	-8.9%	
7I-193	PASS	8/14/2015	PVC	509	470	168	160	-8	-4.8%	
7I-194	PASS	8/14/2015	PVC	514	480	168	156	-12	-7.1%	
7I-198	PASS	8/14/2015	PVC	485	450	168	152	-16	-9.5%	
7P-86	PASS	8/14/2015	PVC	497	460	168	165	-3	-1.8%	
7P-4	PASS	8/18/2015	PVC	589	550	168	155	-13	-7.7%	
7I-197	PASS	8/18/2015	PVC	488	450	168	154	-14	-8.3%	
8U187-1	PASS	8/19/2015	PVC	355	340	168	160	-8	-4.8%	
7P-87	PASS	8/20/2015	PVC	485	450	168	156	-12	-7.1%	
7I-196B	PASS	8/20/2015	PVC	465	450	168	161	-7	-4.2%	
7I-236	PASS	8/21/2015	PVC	436	400	168	158	-10	-6.0%	
7I-235	PASS	8/21/2015	PVC	452	420	168	161	-7	-4.2%	
7P-69	PASS	8/21/2015	PVC	457	420	168	152	-16	-9.5%	
7P-78	PASS	8/21/2015	PVC	447	420	168	154	-14	-8.3%	
7I-234	PASS	8/21/2015	PVC	552	530	168	157	-11	-6.5%	
7P-80	PASS	8/22/2015	PVC	451	420	168	155	-13	-7.7%	
7I-182	PASS	8/22/2015	PVC	452	420	168	165	-3	-1.8%	
7I-164	PASS	8/22/2015	PVC	461	430	168	159	-9	-5.4%	
7I-189	PASS	8/24/2015	PVC	429	400	168	156	-12	-7.1%	
7P-104	PASS	8/24/2015	PVC	449	410	168	159	-9	-5.4%	
7P-102	PASS	8/24/2015	PVC	426	400	168	154	-14	-8.3%	
7P-143	PASS	8/25/2015	PVC	559	530	168	156	-12	-7.1%	
7P-12	PASS	8/26/2015	PVC	585	550	168	153	-15	-8.9%	
7I-178	PASS	8/26/2015	PVC	441	410	168	152	-16	-9.5%	
7P-75	PASS	8/26/2015	PVC	396	360	168	157	-11	-6.5%	
7I-166	PASS	8/27/2015	PVC	443	410	168	157	-11	-6.5%	
7I-174	PASS	8/27/2015	PVC	391	360	168	164	-4	-2.4%	
7P-76A	PASS	8/28/2015	PVC	412	380	168	160	-8	-4.8%	
7I-168	PASS	8/28/2015	PVC	450	420	168	155	-13	-7.7%	
7I-177	PASS	8/28/2015	PVC	427	400	168	156	-12	-7.1%	
7P-77	PASS	8/28/2015	PVC	436	400	168	154	-14	-8.3%	
7I-233	PASS	8/31/2015	PVC	440	420	168	155	-13	-7.7%	
7I-192	PASS	8/31/2015	PVC	415	380	168	158	-10	-6.0%	

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MECHANICAL INTEGRITY TEST RESULTS

WELL ID	INTEGRITY	DATE	CASING TYPE	BOTTOM CASING DEPTH	LOWER PACKER DEPTH	INITIAL PRESSURE	FINAL PRESSURE	PRESSURE LOSS	PERCENT LOSS	COMMENTS
7P-85	PASS	8/31/2015	PVC	425	400	168	155	-13	-7.7%	
7I-190	PASS	8/31/2015	PVC	432	400	168	157	-11	-6.5%	
7I-191	PASS	9/1/2015	PVC	427	400	168	156	-12	-7.1%	
7I-167	PASS	9/1/2015	PVC	437	400	168	157	-11	-6.5%	
7I-184	PASS	9/1/2015	PVC	428	400	168	160	-8	-4.8%	
7P-103	PASS	9/1/2015	PVC	430	400	168	155	-13	-7.7%	
7P-82	PASS	9/1/2015	PVC	397	360	168	160	-8	-4.8%	
7I-176	PASS	9/2/2015	PVC	401	370	168	155	-13	-7.7%	
7P-71	PASS	9/2/2015	PVC	433	400	168	158	-10	-6.0%	
7I-175	PASS	9/2/2015	PVC	394	360	168	155	-13	-7.7%	
7AT64-2	PASS	9/3/2015	PVC	470	410	168	152	-16	-9.5%	
7P-83	PASS	9/3/2015	PVC	428	390	168	160	-8	-4.8%	
7I-169	PASS	9/3/2015	PVC	447	410	168	157	-11	-6.5%	
7I-186	PASS	9/3/2015	PVC	425	390	168	155	-13	-7.7%	
7I-232	PASS	9/3/2015	PVC	432	400	168	154	-14	-8.3%	
7I-403	PASS	9/3/2015	PVC	424	390	168	156	-12	-7.1%	
7P-109	PASS	9/8/2015	PVC	427	390	168	157	-11	-6.5%	
7P-101	PASS	9/8/2015	PVC	438	400	168	160	-8	-4.8%	
7P-105	PASS	9/9/2015	PVC	421	390	168	152	-16	-9.5%	
7AR67-2	PASS	9/9/2015	PVC	465	410	168	155	-13	-7.7%	
7P-81	PASS	9/10/2015	PVC	432	400	168	156	-12	-7.1%	
7AS65-2	PASS	9/10/2015	PVC	417	380	168	163	-5	-3.0%	
7P-73	PASS	9/10/2015	PVC	442	410	168	154	-14	-8.3%	
7I-86	FAILED	7/14/2015	PVC							
7I-91	FAILED	7/16/2015	PVC							
7I-94	FAILED	7/17/2015	PVC							
7I-100	FAILED	7/21/2015	PVC							
7I-106	FAILED	7/21/2015	PVC							
7I-99	FAILED	7/21/2015	PVC							
7I-112	FAILED	7/27/2015	PVC							
7P-48	FAILED	7/28/2015	PVC							
7I-107	FAILED	7/31/2015	PVC							
7I-116	FAILED	8/4/2015	PVC							
7I-163	FAILED	8/5/2015	PVC							
7I-181	FAILED	8/7/2015	PVC							
7I-158	FAILED	8/13/2015	PVC							
7I-165	FAILED	8/22/2015	PVC							

URANIUM ONE USA, INC. - WILLOW CREEK PROJECT
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WELL ID	INTEGRITY	DATE	CASING TYPE	BOTTOM CASING DEPTH	LOWER PACKER DEPTH	INITIAL PRESSURE	FINAL PRESSURE	PRESSURE LOSS	PERCENT LOSS	COMMENTS
7I-183	FAILED	8/24/2015	PVC							
7I-185	FAILED	8/24/2015	PVC							
7P-70	FAILED	8/26/2015	PVC							
7AU59-1	FAILED	8/26/2015	PVC							
7P-72	FAILED	9/2/2015	PVC							
7I-231	FAILED	9/8/2015	PVC							
7I-404	FAILED	9/9/2015	PVC							

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Mechanical Integrity Test Results

Well ID	Integrity	Date	Casing Type	Bottom Casing Depth	Lower Packer	Initial Pressure	Final Pressure	Pressure Loss	Percent Loss
7I-259	PASS	1/4/2016	PVC	498	480	168	160	-8	-4.8%
7I-254	PASS	1/4/2016	PVC	590	570	168	163	-5	-3.0%
7I-250	PASS	1/5/2016	PVC	600	580	168	157	-11	-6.5%
7I-251	PASS	1/5/2016	PVC	605	570	168	161	-7	-4.2%
7I-252	PASS	1/5/2016	PVC	598	580	168	156	-12	-7.1%
7P-116	PASS	1/6/2016	PVC	617	585	168	164	-4	-2.4%
7I-256	PASS	1/6/2016	PVC	620	600	168	155	-13	-7.7%
7I-257	PASS	1/6/2016	PVC	618	600	168	154	-14	-8.3%
7P-119	PASS	1/7/2016	PVC	635	620	168	152	-16	-9.5%
7I-264	PASS	1/7/2016	PVC	645	620	168	160	-8	-4.8%
7I-82	PASS	1/7/2016	PVC	557	540	168	158	-10	-6.0%
8AB194-1	PASS	1/11/2016	PVC	356	345	168	162	-6	-3.6%
7I-52	PASS	1/11/2016	PVC	620	600	168	156	-12	-7.1%
7I-55	PASS	1/12/2016	PVC	609	590	168	157	-11	-6.5%
7I-44	PASS	1/12/2016	PVC	600	580	168	160	-8	-4.8%
7I58	PASS	1/12/2016	PVC	618	585	168	155	-13	-7.7%
7I-283A	PASS	1/13/2016	PVC	597	580	168	159	-9	-5.4%
7I-20	PASS	1/13/2016	PVC	575	560	168	156	-12	-7.1%
7P-118	PASS	1/14/2016	PVC	625	600	168	162	-6	-3.6%
7P-114	PASS	1/14/2016	PVC	600	565	168	159	-9	-5.4%
7I-22	PASS	1/20/2016	PVC	585	560	168	153	-15	-8.9%
7I-30	PASS	1/20/2016	PVC	589	570	168	152	-16	-9.5%
7I-32	PASS	1/20/2016	PVC	560	540	168	156	-12	-7.1%
7I-127	PASS	1/21/2016	PVC	558	530	168	157	-11	-6.5%
7I-377	PASS	1/26/2016	PVC	514	490	168	154	-14	-8.3%
7P-32	PASS	1/26/2016	PVC	563	540	168	162	-6	-3.6%
7I-378	PASS	1/27/2016	PVC	508	490	168	163	-5	-3.0%
7I-380	PASS	1/27/2016	PVC	515	490	168	158	-10	-6.0%
7I-382	PASS	1/27/2016	PVC	514	490	168	153	-15	-8.9%
7I-381	PASS	1/27/2016	PVC	505	485	168	161	-7	-4.2%
7I-383	PASS	1/29/2016	PVC	508	490	168	156	-12	-7.1%
7I-384	PASS	1/29/2016	PVC	517	490	168	160	-8	-4.8%
7I-385	PASS	2/1/2016	PVC	508	490	168	159	-9	-5.4%

Mechanical Integrity Test Results (Cont.)

Well ID	Integrity	Date	Casing Type	Bottom Casing Depth	Lower Packer	Initial Pressure	Final Pressure	Pressure Loss	Percent Loss
7I-46	PASS	2/1/2016	PVC	600	580	168	163	-5	-3.0%
7I-67	PASS	2/2/2016	PVC	634	610	168	161	-7	-4.2%
7I-66	PASS	2/2/2016	PVC	632	610	168	156	-12	-7.1%
7P-30	PASS	2/2/2016	PVC	630	610	168	154	-14	-8.3%
7P-129	PASS	2/4/2016	PVC	659	630	168	159	-9	-5.4%
7I-267	PASS	2/4/2016	PVC	498	480	168	160	-8	-4.8%
7I-261	PASS	2/4/2016	PVC	633	610	168	165	-3	-1.8%
7I-129	PASS	2/9/2016	PVC	566	535	168	154	-14	-8.3%
7I-168	PASS	2/10/2016	PVC	450	425	168	158	-10	-6.0%
7P-54	PASS	2/10/2016	PVC	560	535	168	160	-8	-4.8%
7I-126	PASS	2/10/2016	PVC	560	535	168	161	-7	-4.2%
7I-01	PASS	2/10/2016	PVC	593	570	168	162	-6	-3.6%
7I-64	PASS	2/10/2016	PVC	580	535	168	155	-13	-7.7%
7P-9B	PASS	2/11/2016	PVC	571	550	168	157	-11	-6.5%
7I-75	PASS	2/11/2016	PVC	569	550	168	152	-16	-9.5%
7I-93	PASS	2/11/2016	PVC	570	550	168	156	-12	-7.1%
7I-61	PASS	2/16/2016	PVC	632	615	168	160	-8	-4.8%
7P-25	PASS	2/16/2016	PVC	605	580	168	154	-14	-8.3%
7P-29	PASS	2/16/2016	PVC	629	605	168	159	-9	-5.4%
7I-405	PASS	2/17/2016	PVC	593	570	168	163	-5	-3.0%
7BH92-2	PASS	2/17/2016	PVC	582	565	168	155	-13	-7.7%
7I-393	PASS	2/17/2016	PVC	583	560	168	153	-15	-8.9%
7I-392	PASS	2/17/2016	PVC	580	560	168	158	-10	-6.0%
7P-183	PASS	2/17/2016	PVC	584	560	168	157	-11	-6.5%
7I-394B	PASS	2/18/2016	PVC	572	550	168	159	-9	-5.4%
7P-152	PASS	2/18/2016	PVC	570	550	168	161	-7	-4.2%
7I-390	PASS	2/18/2016	PVC	573	550	168	160	-8	-4.8%
7I-389	PASS	2/18/2016	PVC	570	550	168	157	-11	-6.5%
7P-151	PASS	2/22/2016	PVC	564	540	168	156	-12	-7.1%
7I-391	PASS	2/22/2016	PVC	577	550	168	154	-14	-8.3%
7I-125	PASS	2/22/2016	PVC	602	580	168	157	-11	-6.5%
7I-43	PASS	2/22/2016	PVC	580	560	168	164	-4	-2.4%
7I-36	PASS	2/23/2016	PVC	583	560	168	159	-9	-5.4%

Mechanical Integrity Test Results (Cont.)

Attachment A

Well ID	Integrity	Date	Casing Type	Bottom Casing Depth	Lower Packer	Initial Pressure	Final Pressure	Pressure Loss	Percent Loss
7I-39	PASS	2/23/2016	PVC	575	550	168	158	-10	-6.0%
7P-17	PASS	2/23/2016	PVC	586	560	168	161	-7	-4.2%
7I-69	PASS	2/24/2016	PVC	615	590	168	162	-6	-3.6%
7P-20	PASS	2/24/2016	PVC	600	580	168	156	-12	-7.1%
7P-22	PASS	2/24/2016	PVC	584	560	168	157	-11	-6.5%
7I-51	PASS	2/24/2016	PVC	593	570	168	157	-11	-6.5%
7I-54	PASS	2/25/2016	PVC	600	580	168	158	-10	-6.0%
7I-40	PASS	2/25/2016	PVC	590	570	168	155	-13	-7.7%
7I-68	PASS	3/28/2016	PVC	622	610	168	166	-2	-1.2%
7P-26	PASS	3/28/2016	PVC	586	570	168	156	-12	-7.1%
7I-246	PASS	3/28/2016	PVC	590	575	168	155	-13	-7.7%
7P-27	PASS	3/29/2016	PVC	605	590	168	159	-9	-5.4%
7I-48	PASS	3/29/2016	PVC	599	590	168	162	-6	-3.6%
7P-181B	PASS	3/31/2016	PVC	508	500	168	158	-10	-6.0%
7P-179	PASS	3/31/2016	PVC	513	510	168	154	-14	-8.3%

Failed M.I.T.					COMMENTS:
7I-260	FAILED	1/4/2016	PVC	630	
7P-121	FAILED	2/9/2016	PVC	638	
NPHW-16	FAILED	2/10/2016	PVC	615	
7I-17	FAILED	2/11/2016	PVC	572	

Mechanical Integrity Test Results

Well ID	Integrity	Date	Casing Type	Bottom Casing Depth	Lower Packer	Initial Pressure	Final Pressure	Pressure Loss	Percent Loss
7P-182	PASS	4/4/2016	PVC	511	490	168	158	-10	-6.0%
7P-180	PASS	4/4/2016	PVC	507	495	168	159	-9	-5.4%
7I-258	PASS	4/4/2016	PVC	620	590	168	156	-12	-7.1%
7I-379	PASS	4/4/2016	PVC	519	500	168	158	-10	-6.0%
7I-41	PASS	4/5/2016	PVC	600	590	168	155	-13	-7.7%
7I-50A	PASS	4/5/2016	PVC	580	570	168	161	-7	-4.2%
7I-42	PASS	4/5/2016	PVC	607	595	168	152	-16	-9.5%
7I-45	PASS	4/5/2016	PVC	605	595	168	157	-11	-6.5%
7I-53	PASS	4/6/2016	PVC	573	560	168	162	-6	-3.6%
7P-18	PASS	4/6/2016	PVC	605	595	168	156	-12	-7.1%
7P-24B	PASS	4/7/2016	PVC	585	575	168	160	-8	-4.8%
7I-65	PASS	4/7/2016	PVC	625	615	168	162	-6	-3.6%
7I-57	PASS	4/7/2016	PVC	595	585	168	154	-14	-8.3%
7P-21	PASS	4/7/2016	PVC	603	590	168	158	-10	-6.0%
7I-49	PASS	4/11/2016	PVC	612	600	168	155	-13	-7.7%
7P-19	PASS	4/11/2016	PVC	598	590	168	159	-9	-5.4%
7I-60	PASS	4/11/2016	PVC	605	595	168	163	-5	-3.0%
7P-23	PASS	4/11/2016	PVC	601	590	168	156	-12	-7.1%
7I-59B	PASS	4/12/2016	PVC	582	570	168	157	-11	-6.5%
7P-28	PASS	4/12/2016	PVC	592	580	168	154	-14	-8.3%
7I-38	PASS	4/13/2016	PVC	590	580	168	156	-12	-7.1%
7P-31	PASS	4/13/2016	PVC	620	610	168	159	-9	-5.4%
7P-111	PASS	4/14/2016	PVC	595	585	168	165	-3	-1.8%
7I-247	PASS	4/14/2016	PVC	568	560	168	162	-6	-3.6%
7P-112	PASS	4/14/2016	PVC	564	550	168	161	-7	-4.2%
7I-284	PASS	4/14/2016	PVC	570	560	168	157	-11	-6.5%
7I-265	PASS	4/18/2016	PVC	653	645	168	157	-11	-6.5%
7I-275	PASS	4/18/2016	PVC	678	670	168	155	-13	-7.7%
7I-249	PASS	4/18/2016	PVC	595	585	168	162	-6	-3.6%
7I-255	PASS	4/18/2016	PVC	615	600	168	159	-9	-5.4%
7I-262	PASS	4/18/2016	PVC	638	630	168	158	-10	-6.0%
7P-126	PASS	4/20/2016	PVC	680	670	168	156	-12	-7.1%
7P-117	PASS	4/26/2016	PVC	623	615	168	156	-12	-7.1%

Mechanical Integrity Test Results (Cont.)

Well ID	Integrity	Date	Casing Type	Bottom Casing Depth	Lower Packer	Initial Pressure	Final Pressure	Pressure Loss	Percent Loss
7P-128	PASS	4/26/2016	PVC	667	655	168	154	-14	-8.3%
7P-120	PASS	4/27/2016	PVC	647	639	168	160	-8	-4.8%
8X141-1	PASS	5/3/2016	PVC	285	275	168	165	-3	-1.8%
8W139-2	PASS	5/3/2016	PVC	276	265	168	163	-5	-3.0%
8SM11	PASS	5/4/2016	PVC	158	145	168	157	-11	-6.5%
8MW10	PASS	5/4/2016	PVC	345	335	168	159	-9	-5.4%
8MW142-1	PASS	5/4/2016	PVC	290	280	168	164	-4	-2.4%
2MW89	PASS	5/4/2016	PVC	188	180	168	162	-6	-3.6%
7I-375	PASS	5/5/2016	PVC	553	545	168	161	-7	-4.2%
7I-372	PASS	5/5/2016	PVC	552	540	168	155	-13	-7.7%
7I-306	PASS	5/9/2016	PVC	547	535	168	163	-5	-3.0%
7I-309	PASS	5/9/2016	PVC	532	520	168	154	-14	-8.3%
7P-144	PASS	5/9/2016	PVC	545	535	168	160	-8	-4.8%
7I-270	PASS	5/9/2016	PVC	653	525	168	156	-12	-7.1%
7P-145	PASS	5/10/2016	PVC	527	515	168	153	-15	-8.9%
7I-305	PASS	5/10/2016	PVC	536	525	168	158	-10	-6.0%
7AT142-1	PASS	5/10/2016	PVC	570	520	168	161	-7	-4.2%
7I-312	PASS	5/11/2016	PVC	544	535	168	162	-6	-3.6%
7I-311	PASS	5/11/2016	PVC	553	545	168	161	-7	-4.2%
7I-314	PASS	5/12/2016	PVC	529	520	168	155	-13	-7.7%
7P-147	PASS	5/17/2016	PVC	540	530	168	157	-11	-6.5%
7I-281	PASS	5/19/2016	PVC	670	635	168	159	-9	-5.4%
7I-324	PASS	5/19/2016	PVC	547	535	168	161	-7	-4.2%
7I-282	PASS	5/19/2016	PVC	637	625	168	157	-11	-6.5%
7I-317	PASS	5/19/2016	PVC	540	530	168	162	-6	-3.6%
7I-315	PASS	5/19/2016	PVC	537	525	168	159	-9	-5.4%
7I-318	PASS	5/19/2016	PVC	533	525	168	164	-4	-2.4%
7P-148	PASS	5/21/2016	PVC	535	525	168	155	-13	-7.7%
7I-321	PASS	5/21/2016	PVC	504	495	168	153	-15	-8.9%
7I-319	PASS	5/21/2016	PVC	515	505	168	163	-5	-3.0%
7P-147	PASS	5/21/2016	PVC	540	530	168	157	-11	-6.5%
8MW36-A	PASS	5/24/2016	PVC	310	300	168	156	-12	-7.1%
8MW37-A	PASS	5/24/2016	PVC	299	290	168	161	-7	-4.2%

Mechanical Integrity Test Results (Cont.)

Well ID	Integrity	Date	Casing Type	Bottom Casing	Lower	Initial	Final	Pressure	Percent

Well ID	Integrity	Date	Casing Type	Casing Depth	Packer	Pressure	Pressure	Loss	Loss
7I-322	PASS	5/25/2016	PVC	513	500	168	157	-11	-6.5%
7P-150	PASS	5/25/2016	PVC	519	510	168	157	-11	-6.5%
7P-149	PASS	5/25/2016	PVC	508	500	168	158	-10	-6.0%
7I-327	PASS	5/31/2016	PVC	550	540	168	157	-11	-6.5%
7I-328	PASS	5/31/2016	PVC	554	545	168	155	-13	-7.7%
7P-156	PASS	5/31/2016	PVC	548	540	168	153	-15	-8.9%
7P-157	PASS	6/1/2016	PVC	557	545	168	160	-8	-4.8%
7I-329A	PASS	6/1/2016	PVC	556	545	168	158	-10	-6.0%
8AK191-2	PASS	6/8/2016	PVC	286	280	168	164	-4	-2.4%
8AI179-1	PASS	6/8/2016	PVC	270	260	168	164	-4	-2.4%
8AH185-2	PASS	6/8/2016	PVC	289	280	168	165	-3	-1.8%
8AJ197-2	PASS	6/8/2016	PVC	334	325	168	166	-2	-1.2%
8AT167-1	PASS	6/9/2016	PVC	290	280	168	155	-13	-7.7%
8AW148-1	PASS	6/9/2016	PVC	315	305	168	165	-3	-1.8%
8AA187-1A	PASS	6/9/2016	PVC	350	340	168	162	-6	-3.6%
8AA203-1	PASS	6/9/2016	PVC	390	380	168	159	-9	-5.4%
HDHW-3	PASS	6/9/2016	PVC	318	310	168	161	-7	-4.2%
8S185-1	PASS	6/13/2016	PVC	320	310	168	165	-3	-1.8%
8T205-1	PASS	6/13/2016	PVC	390	380	168	160	-8	-4.8%
8V153-1	PASS	6/13/2016	PVC	297	290	168	162	-6	-3.6%
HDHW-2	PASS	6/13/2016	PVC	355	350	168	158	-10	-6.0%
HDHW-1	PASS	6/21/2016	PVC	263	260	168	160	-8	-4.8%
8AH182-1	PASS	6/21/2016	PVC	278	270	168	159	-9	-5.4%
8AJ186-1	PASS	6/21/2016	PVC	296	285	168	163	-5	-3.0%
8AI197-2	PASS	6/21/2016	PVC	311	300	168	161	-7	-4.2%
8AK198-1	PASS	6/21/2016	PVC	337	325	168	158	-10	-6.0%
8AK200-1	PASS	6/21/2016	PVC	359	350	168	156	-12	-7.1%
7I-374	PASS	6/22/2016	PVC	557	545	168	157	-11	-6.5%
7I-376	PASS	6/22/2016	PVC	556	545	168	159	-9	-5.4%
7P-178	PASS	6/22/2016	PVC	552	540	168	155	-13	-7.7%
7I-373	PASS	6/22/2016	PVC	553	545	168	154	-14	-8.3%
7I-402	PASS	6/23/2016	PVC	615	605	168	161	-7	-4.2%
7I-371	PASS	6/23/2016	PVC	555	545	168	156	-12	-7.1%

Mechanical Integrity Test Results (Cont.)

Well ID	Integrity	Date	Casing Type	Bottom Casing Depth	Lower Packer	Initial Pressure	Final Pressure	Pressure Loss	Percent Loss

7P-177	PASS	6/23/2016	PVC	550	540	168	159	-9	-5.4%
7I-368	PASS	6/23/2016	PVC	552	540	168	158	-10	-6.0%
7P-176	PASS	6/27/2016	PVC	540	530	168	154	-14	-8.3%
7I-367	PASS	6/27/2016	PVC	547	535	168	165	-3	-1.8%
7I-401	PASS	6/27/2016	PVC	615	605	168	153	-15	-8.9%
7P-155	PASS	6/27/2016	PVC	610	600	168	160	-8	-4.8%
7I-365	PASS	6/28/2016	PVC	536	525	168	161	-7	-4.2%
7I-366	PASS	6/28/2016	PVC	540	530	168	159	-9	-5.4%
7I-399	PASS	6/28/2016	PVC	605	595	168	155	-13	-7.7%
7I-400	PASS	6/28/2016	PVC	615	605	168	157	-11	-6.5%
7I-364	PASS	6/29/2016	PVC	535	525	168	154	-14	-8.3%
7I-362	PASS	6/29/2016	PVC	545	535	168	160	-8	-4.8%
7P-154	PASS	6/29/2016	PVC	603	595	168	161	-7	-4.2%
7P-175	PASS	6/29/2016	PVC	535	525	168	158	-10	-6.0%

Failed M.I.T.					COMMENTS:
7I-47	FAILED	4/12/2016	PVC	595	
7P-16	FAILED	4/12/2016	PVC	578	
7I-277	FAILED	4/19/2016	PVC	680	
7I-278	FAILED	4/20/2016	PVC	672	
7I-411	FAILED	5/11/2016	PVC	543	
7I-280	FAILED	5/12/2016	PVC	657	
7I-316	FAILED	5/12/2016	PVC	540	
7I-310	FAILED	5/17/2016	PVC	533	
7I-313	FAILED	5/21/2016	PVC	519	
7AT61-1	FAILED	6/15/2016	PVC	432	

WELL PLUGGING

Hole ID	Well Type	MIT Date	MIT Status	Plug Date	Cement Type	Grout Weight (PPG)	Abandoned Date

No Wells Were Plugged During The 4th Quarter of 2015

WELL PLUGGING

Hole ID	Well Type	MIT Date	MIT Status	Plug Date	Cement Type	Grout Weight (PPG)	Abandoned Date

No Wells Were Plugged During The 3rd Quarter of 2015

WELL PLUGGING

Hole ID	Well Type	MIT Date	MIT Status	Plug Date	Cement Type	Grout Weight (PPG)	Abandoned Date

No Wells Were Plugged During The 1st Quarter of 2016

WELL PLUGGING

Hole ID	Well Type	MIT Date	MIT Status	Plug Date	Cement Type	Grout Weight (PPG)	Abandoned Date
10-808	Injection	4/23/2015	Failed	5/27/2016	BH-20	9.4	
7I-86 (7B368-2)	Injection	7/14/2015	Failed	6/2/2016	BH-20	9.4	
7I-91	Injection	7/16/2015	Failed	6/2/2016	BH-20	9.4	
7I-74B	Injection	11/25/2015	Failed	6/2/2016	BH-20	9.4	
7I-94	Injection	7/17/2015	Failed	6/7/2016	BH-20	9.4	
7I-106 (7BB57-1)	Injection	7/21/2015	Failed	6/7/2016	BH-20	9.4	
7I-99 (7BC59-2)	Injection	7/27/2015	Failed	6/7/2016	BH-20	9.4	
7I-107	Injection	7/31/2015	Failed	6/7/2016	BH-20	9.4	
7I-163	Injection	8/5/2015	Failed	6/7/2016	BH-20	9.4	
7AU59-1	Injection	8/26/2015	Failed	6/7/2016	BH-20	9.4	
6AT-58-1	Injection	11/12/2015	Failed	6/7/2016	BH-20	9.4	
7I-181	Injection	8/7/2015	Failed	6/8/2016	BH-20	9.4	
7I-158	Injection	8/13/2015	Failed	6/8/2016	BH-20	9.4	
7P-72	Production	9/2/2015	Failed	6/8/2016	BH-20	9.4	
7I-187	Injection	11/11/2015	Failed	6/8/2016	BH-20	9.4	
7I-404	Injection	9/9/2015	Failed	6/13/2016	BH-20	9.4	
7P-48	Production	7/28/2015	Failed	6/13/2016	BH-20	9.4	
7P-70	Production	8/26/2015	Failed	6/15/2016	BH-20	9.4	
7I-165	Injection	8/22/2015	Failed	6/15/2016	BH-20	9.4	
7I-8	Injection	11/17/2015	Failed	6/21/2016	BH-20	9.4	
7I-9	Injection	11/16/2015	Failed	6/21/2016	BH-20	9.4	
7I-17	Injection	2/11/2016	Failed	6/21/2016	BH-20	9.4	
7I-28	Injection	11/23/2015	Failed	6/21/2016	BH-20	9.4	
7I-132	Injection	12/9/2015	Failed	6/21/2016	BH-20	9.4	
7I-231	Injection	9/8/2015	Failed	6/23/2016	BH-20	9.4	
7I-171	Injection	10/1/2015	Failed	6/23/2016	BH-20	9.4	
7I-260	Injection	1/4/2016	Failed	6/23/2016	BH-20	9.4	
7I-278	Injection	4/20/2016	Failed	6/27/2016	BH-20	9.4	
7I-313	Injection	5/21/2016	Failed	6/27/2016	BH-20	9.4	
7AT61-1	Injection	6/15/2016	Failed	6/27/2016	BH-20	9.4	
7I-310	Injection	5/17/2016	Failed	6/27/2016	BH-20	9.4	

WELL PLUGGING

Hole ID	Well Type	MIT Date	MIT Status	Plug Date	Cement Type	Grout Weight (PPG)	Abandoned Date
7P-121	Production	2/9/2016	Failed	6/27/2016	BH-20	9.4	
7I-185	Injection	8/24/2015	Failed	6/27/2016	BH-20	9.4	
7I-47	Injection	4/12/2016	Failed	6/28/2016	BH-20	9.4	
7P-16	Production	4/13/2016	Failed	6/28/2016	BH-20	9.4	
7I-277	Injection	4/19/2016	Failed	6/28/2016	BH-20	9.4	
7I-411	Injection	5/11/2016	Failed	6/28/2016	BH-20	9.4	
7I-280	Injection	5/12/2016	Failed	6/28/2016	BH-20	9.4	
7I-183	Injection	8/24/2015	Failed	6/28/2016	BH-20	9.4	

APPENDIX 3

T.45N R.77W
T.45N R.76W
T.45N R.77W
T.44N R.77W

MU-8
MU-10B
MU-10A
MU-2
MU-3
MU-4
MU-6
MU-7
MU-5
MU-5-2
MU-5

4480
4490
4500
4510
4520
4530
4540
4550
4560
4570
4580
4590
4600
4610
4620
4630
4640
4650
4660
4670
4680
4690
4700
4710
4720
4730

Legend

- Potentiometric Sample Location
- Perimeter Monitor Wells
- Interior Monitor Wells
- Well Field Pattern Outline
- SiteFacilities
- Mine Unit Boundaries
- Willow Creek Permit #478

0 0.25 0.5 1 Miles

1 inch = 0.25 miles
1 inch = 1,320 feet
10 ft. Potentiometric Contours

N

Coordinate System:
NAD 1927 StatePlane Wyoming East Central FIPS 4902
Projection: Transverse Mercator
Datum: North American 1927
False Easting: 500,000.0000
False Northing: 0.0000
Central Meridian: -107.3333
Scale Factor: 0.9999
Latitude Of Origin: 40.6667
Units: Foot US

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Willow Creek Project
Permit #478
2015-2016 Annual Report
Shallow Zone
Potentiometric Map

Johnson and Campbell Counties, Wyoming

Date: 8/18/2015 | By: | Checked

Rev No.	Description	Date	By

830000 835000 840000 845000 850000 855000

1165000 1160000 1155000 1150000 1145000 1140000 1135000

T.45N R.77W
T.45N R.76W
T.44N R.77W

MU-8
MU-10B
MU-10A
MU-2
MU-3
MU-4
MU-5
MU-5-2

4420 4430 4440 4450 4460 4470 4480 4490 4500 4510 4520 4530 4540 4550 4560 4570 4580 4590 4600 4610 4620 4630 4640

Legend

- Perimeter Monitor Wells
- Interior Monitor Wells
- Well Field Pattern Outline
- SiteFacilities
- Mine Unit Boundaries
- Willow Creek Permit #478

0 0.25 0.5 1 Miles

1 inch = 0.25 miles
1 inch = 1,320 feet
10 ft. Potentiometric Contours

N

Coordinate System:
NAD 1927 StatePlane Wyoming East Central FIPS 4902
Projection: Transverse Mercator
Datum: North American 1927
False Easting: 500,000.0000
False Northing: 0.0000
Central Meridian: -107.3333
Scale Factor: 0.9999
Latitude Of Origin: 40.6667
Units: Foot US

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Willow Creek Project
Permit #478
2015-2016 Annual Report
Production Zone
Potentiometric Map

Johnson and Campbell Counties, Wyoming

Date: 8/18/2015 By: Checked

Rev No.	Description	Date	By

T.45N R.77W
T.45N R.76W
T.45N R.77W
T.44N R.77W

MU-8
MU-10B
MU-10A
MU-2
MU-3
MU-4
MU-6
MU-7
MU-5
MU-5-2

4470
4480
4490
4500
4510
4520
4530
4540
4550
4560
4570
4580
4590
4600
4610
4620

Legend

- Potentiometric Sample Location
- Perimeter Monitor Wells
- Interior Monitor Wells
- Well Field Pattern Outline
- SiteFacilities
- Mine Unit Boundaries
- Willow Creek Permit #478

0 0.25 0.5 1 Miles

1 inch = 0.25 miles
1 inch = 1,320 feet
10 ft. Potentiometric Contours

N

Coordinate System:
NAD 1927 StatePlane Wyoming East Central FIPS 4902
Projection: Transverse Mercator
Datum: North American 1927
False Easting: 500,000.0000
False Northing: 0.0000
Central Meridian: -107.3333
Scale Factor: 0.9999
Latitude Of Origin: 40.6667
Units: Foot US

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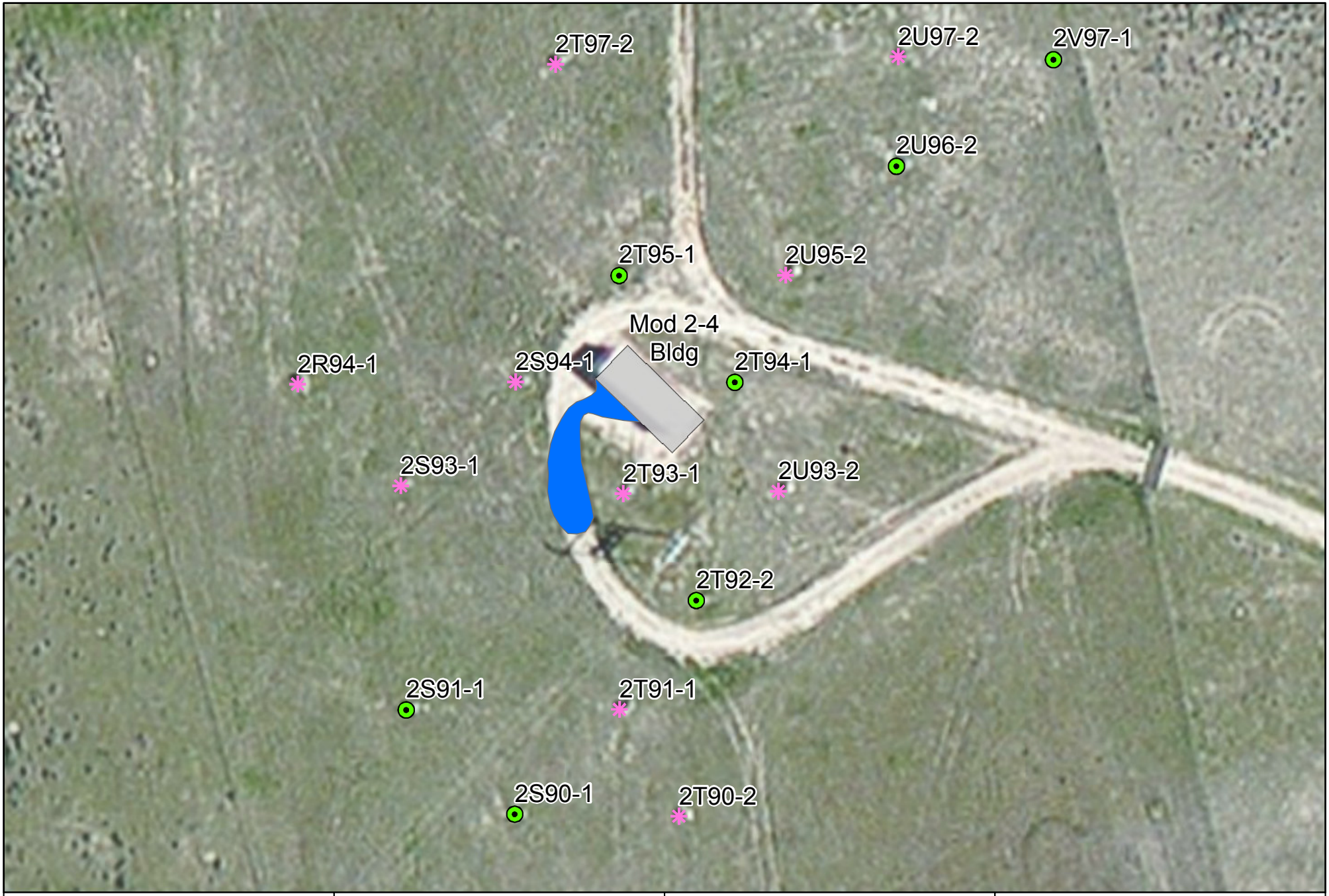
Willow Creek Project
Permit #478
2015-2016 Annual Report
Deep Zone
Potentiometric Map

Johnson and Campbell Counties, Wyoming

Date: 8/18/2015 | By: | Checked

Rev No.	Description	Date	By

APPENDIX 4



Legend

- Injection Well
- Recovery Well
- Spill Location

N

0 50 100 Feet

1 inch = 50 feet

Willow Creek Project
Permit #478
2015 - 2016 Annual Report
MU2 Module 2-4 Spill

Uranium One USA, Inc.
Wyoming Production Geology Group
907 North Poplar St. Suite 260
Casper, WY 82601
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R 77 W

R 76 W

T 45 N

T 44 N

Irigaray Permit Boundary
(WDEQ Permit # 478)

Christensen Ranch
Amendment Area Boundary
(WDEQ Permit # 478)

Heldt Draw Area

Table Mountain Area

North Prong Area

Permit to Mine No 478
Incidental Boundary
Revision Area
Approved
July 10, 2012

Cotter Permit Area
Permit #480

MINE UNIT 2
MINE UNIT 4
MINE UNIT 5
MINE UNIT 6
MINE UNIT 7
MINE UNIT 8
MINE UNIT 9
MINE UNIT 10-A
MINE UNIT 10-B
MINE UNIT 11
MINE UNIT 12

IR-1
IR Willow No. 2
GS-01
Down Stream
Willow Creek
GS-03
Middle Artesian
No. 2
First Artesian
No. 1
Willow Corral
No. 32
Ellendale No. 4
CG-05
Upstream - Willow Creek
Del Gulch No.13
Christensen Ranch
House No. 1
AS1
AS5
AS5a
AS6
AS7

IRIGARAY RANCH
HISTORICAL SITE
CHIMNEY
CHECK DAMS
FOOTBRIDGE
SPREADER DAMS
WINDMILL
DRAW
RIVER
POWDER
JEPSON
CRANEY
SCHOOL SECTION SPRING
WILSON RANCH (ABAN'D)
DREW RANCH (ABAN'D)
TABLE MOUNTAIN
CRANEY SPRING
PISTOL POINT
DOME BUTTE
NORTH BUTTE
LANDING FIELD (PRIVATE)
CHRISTENSEN RANCH
WILLOW CREEK
NORTH PRONG
JOHNSON COUNTY
CAMPBELL COUNTY

T45N R77W
T45N R76W
T44N R77W
T44N R76W

LEGEND

- Wellfield Access Roads
- Haul Road
- Wellfield Area - Existing
- Wellfield Area - Future
- Evaporation Ponds
- Topsoil Stockpile
- Incidental Boundary Revsion Area
- Mine Unit 10 Incidental Boundary Revision
- Air Sample Location (Radon and Particulate)
- Air Sample Location (Radon and Particulate) Vegetation Sample Location Soil Sample Location Direct Radiation Monitor Location
- Air Sample Location (Radon) Vegetation Sample Location Soil Sample Location Direct Radiation Monitor Location
- Stock & Domestic Well Sample Location Regional Groundwater Monitoring Location
- Upstream & Downstream Surface Water Sample Location

0 2000' 4000'

N W E S

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Irigaray & Christensen Ranch
Environmental Monitoring
Station Locations
Permit to Mine #478
Johnson & Campbell Counties, Wyoming
2015-2016 Annual Report to WDEQ-LQD

Date: September 2012 | By: CMI August 2009 | Checked:

Rev. No.	Description	Date	By
1	Moved location of GS-01	August, 2010	CEO: U1
2	Added AS 7 to CR Monitoring Locations	Sept, 2012	CEO: U1
3			
4			

Sheet:

R. 77 W.

T. 45 N.

1180000
1179000
1178000
1177000
1176000
1175000
1174000
1173000
1172000
1171000

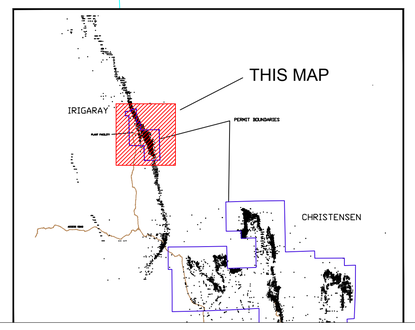
5 4
8 9

4
9

8 9
17 16

TOPSOIL STOCKPILE # 4
USMT SITE
5/7 SITE
R & D AREA
RESTORATION
POND 'B'
RESTORATION POND 'A'
TOPSOIL STOCKPILE #6
TOPSOIL STOCKPILE #5
PONDS A, C, and E are in Restoration
FUEL STORAGE AREA
REAGENT STORAGE AREA
POND 'E'
PLANT
PONDS A
PONDS B
PONDS C
PONDS D
TOPSOIL STOCKPILE #3
SUBSOIL
WILLOW CREEK
POWERLINE
W.W.F. BLDG.
50' SEEDED
WELLFIELD BLDG.
TOPSOIL STOCKPILE #2
TOPSOIL PILE
TOPSOIL STOCKPILE #7
SEEDED MU7 JUNE 15, 2015 10-12 Acres
TOPSOIL STOCKPILE #12
TOPSOIL STOCKPILE #9
TOPSOIL STOCKPILE #8
TOPSOIL STOCKPILE #11
TOPSOIL STOCKPILE #10
UNIT 9 BLDG.
SEEDED
UNIT 1
UNIT 2
UNIT 3
UNIT 4
UNIT 5
UNIT 6
UNIT 7
UNIT 8
UNIT 9

MAP LOCATION



LEGEND

- Fence
- Roads
- Permit Boundary
- Powerline
- Cattleguard
- Areas Wellfield Reclamation is Needed

0 250' 500'

N
W E
S

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Irigaray Project
Area Facilities Location Map
Permit to Mine #478
2015-2016 Annual Report to WDEQ-LQD
Johnson County, Wyoming

Date: August 2016 By: CMI August 2009 Checked:

Rev. No.	Description	Date	By
1	Updated 2009 CMI Original for 2010	August 2010	CEO: U1
2	Updated for 2011-2012 Annual Rpt.	Sept. 2012	CEO: U1
3	Added Areas Reclamation Completed	Aug. 2016	PAA: U1

Sheet:

Christensen Project
Area Facilities Location Map
Permit to Mine #478
Johnson & Campbell Counties, Wyoming
2015-2016Annual Report to WDEQ-LQD

R 77 W | R 76 W | T 45 N | T 44 N | T 44N R77W | T 45N R77W | T 44N R76W | T 45N R76W

JOHNSON COUNTY | CAMPBELL COUNTY

MINE UNIT 8 | MINE UNIT 9 | MINE UNIT 10-B | MINE UNIT 10-A | MINE UNIT 11 | MINE UNIT 12 | MINE UNIT 2 | MINE UNIT 3 Satellite Plant | MINE UNIT 4 | MINE UNIT 5 | MINE UNIT 6 | MINE UNIT 7

Permit to Mine No 478 Incidental Boundary Revision Area Approved July 10, 2012

Cotter Permit Area Permit #489

Booster Station

UNIT 8 & 9 TRUNKLINE | UNIT 6 & 7 TRUNKLINE | UNIT 2 UNIT 3 | UNIT 3 UNIT 4 | UNIT 4 UNIT 5 | UNIT 7 UNIT 5

Plant | Restoration Plant | Ponds | Topsoil Stockpile # 1 | Topsoil Stockpile # 2 | Topsoil Stockpile # 3 | Topsoil Stockpile # 4 | Topsoil Stockpile # 5 | Topsoil Stockpile # 6 | Topsoil Stockpile # 7 | Topsoil Stockpile # 8 | Topsoil Stockpile # 9 | Topsoil Stockpile # 10 | Topsoil Stockpile # 11 | Topsoil Stockpile # 12 | Topsoil Stockpile # 13 | Subsoil Stockpile # 1 | Subsoil Stockpile # 2 | Subsoil Stockpile # 3 | Subsoil Stockpile # 4 | Subsoil Stockpile # 5 | Subsoil Stockpile # 6 | Subsoil Stockpile # 7 | Subsoil Stockpile # 8 | Subsoil Stockpile # 9 | Subsoil Stockpile # 10 | Subsoil Stockpile # 11 | Subsoil Stockpile # 12 | Subsoil Stockpile # 13 | Stage Area 1 | Stage Area 2 | BOOSTER PUMP STATION | POWER LINE EXTENSION TO MINE UNITS

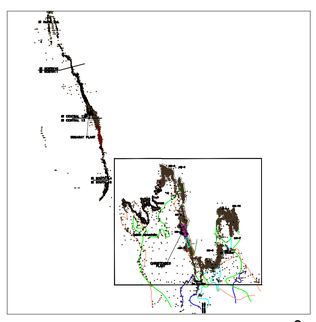
DREW RANCH (ABAN'D) | WINDMILL 4661 | TABLE MOUNTAIN 4851 | WINDMILL 4691 | CHRISTENSEN RANCH | LANDING FIELD (PRIVATE) 4877

CRANEY DRAW | WILLOW CREEK | DELDT DRAW | HAZZARD DRAW | PRONG CREEK | Black & Yellow Road

Legend

- Township Boundary
- Section Line
- County Line
- Monitor Wells
- Roads
- Two Track Roads
- Fence
- Permit Boundary
- Trunkline
- Powerline
- Mining Area / Monitor Ring — Existing Wellfield Outline
- Future Mining Area — Future Wellfield Outline
- Proposed Mining Area / Monitor Ring — Proposed Wellfield Outline
- Incidental Boundary Revision Area

MAP LOCATION



*NOTE: TO INCREASE LEGIBILITY NOT ALL FACILITIES, STOCKPILES, etc., ARE TO SCALE

N W E S

0 2000' 4000'

Scale 1:1250

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Date: 08/12/2016	By: TM	Checked:	
Rev. No.	Description	Date	By
Rev	Revised for 2014-2015 Annual Rpt.	Aug 2015	PAA

Sheet:

22 23 24 19

MINE UNIT 8

Mod5
Mod 4
Mod 3
Mod 2
Mod 1
Mod 6
Mod 7
Mod 8
Mod 9

CBM 25-21
CBM 25-41
CBM 25-23
Pump Jack H95
Electrical Substation

27 26 25 30

Cotter Permit Area
Permit #489

MINE UNIT 9

MINE UNIT 10-B

34 35 36 31

Mod 6
Mod 5
Mod 4
Mod 3

Mod 2
Mod 1

MINE UNIT 12

MINE UNIT 10-A

MINE UNIT 2

3 2 1 6

MINE UNIT 11

MINE UNIT 3
Satellite Plant

10 11 12

Legend

- Township Boundary
- Section Line
- Roads
- Fence
- Permit Boundary
- Trunkline
- Powerline
- Future Wellfield Outline
- Future Mining Area
- Approximate Location of Interim Reclamation Performed During 2014-2015 Reporting Period
- No New Interim Reclamation Performed During 2015-2016 Reporting Period
- Location of Delineation Drill Holes to be Reclaimed During the Fall of 2016

N W E S

0 100' 200'
Scale 1:200

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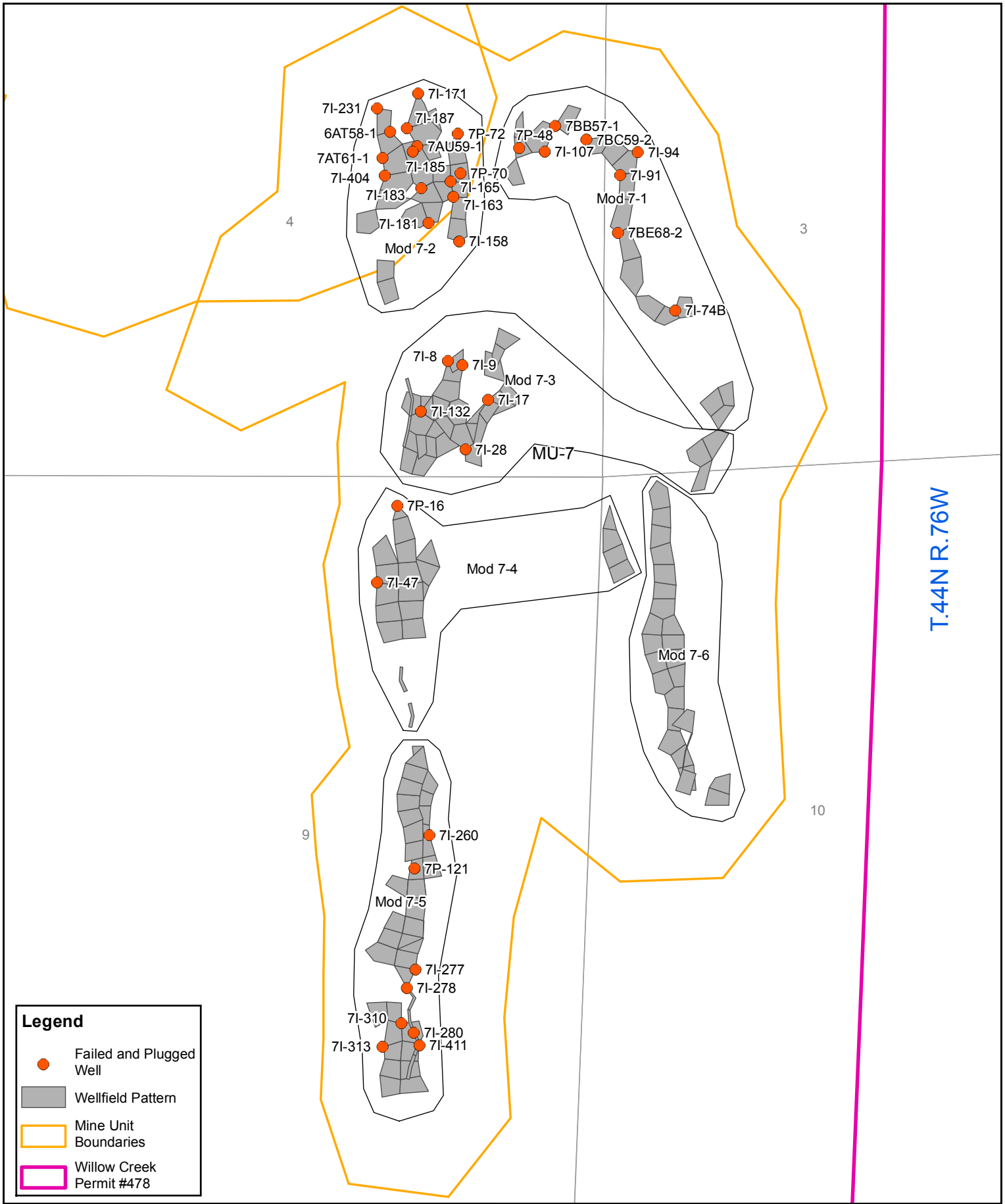
Christensen Ranch
Interim Reclamation Map
Permit to Mine #478
2015-2016 Annual Report to WDEQ-LQD
Johnson & Campbell Counties, Wyoming

Date: August 2016	By: CEO		Checked: TAM	
Rev. No.	Description	Date	By	Sheet:


7I-171
7I-231
7I-187
6AT58-1
7P-72
7P-48
7BB57-1
7BC59-2
7AU59-1
7I-107
7I-94
7AT61-1
7I-185
7I-91
7I-404
7P-70
7I-165
Mod 7-1
7I-183
7I-163
4
3
7I-181
7BE68-2
7I-158
Mod 7-2
7I-74B
7I-8
7I-9
Mod 7-3
7I-17
7I-132
7I-28
MU-7
7P-16
7I-47
Mod 7-4
Mod 7-6
T.44N R.76W
9
10
7I-260
7P-121
Mod 7-5
7I-277
7I-278
7I-310
7I-280
7I-313
7I-411
Legend
Failed and Plugged Well
Wellfield Pattern
Mine Unit Boundaries
Willow Creek Permit #478
N
0
300
600
Feet
Mine Unit 7 Failed and Abandoned Wells
Uranium One USA, Inc.
Wyoming Production Geology Group
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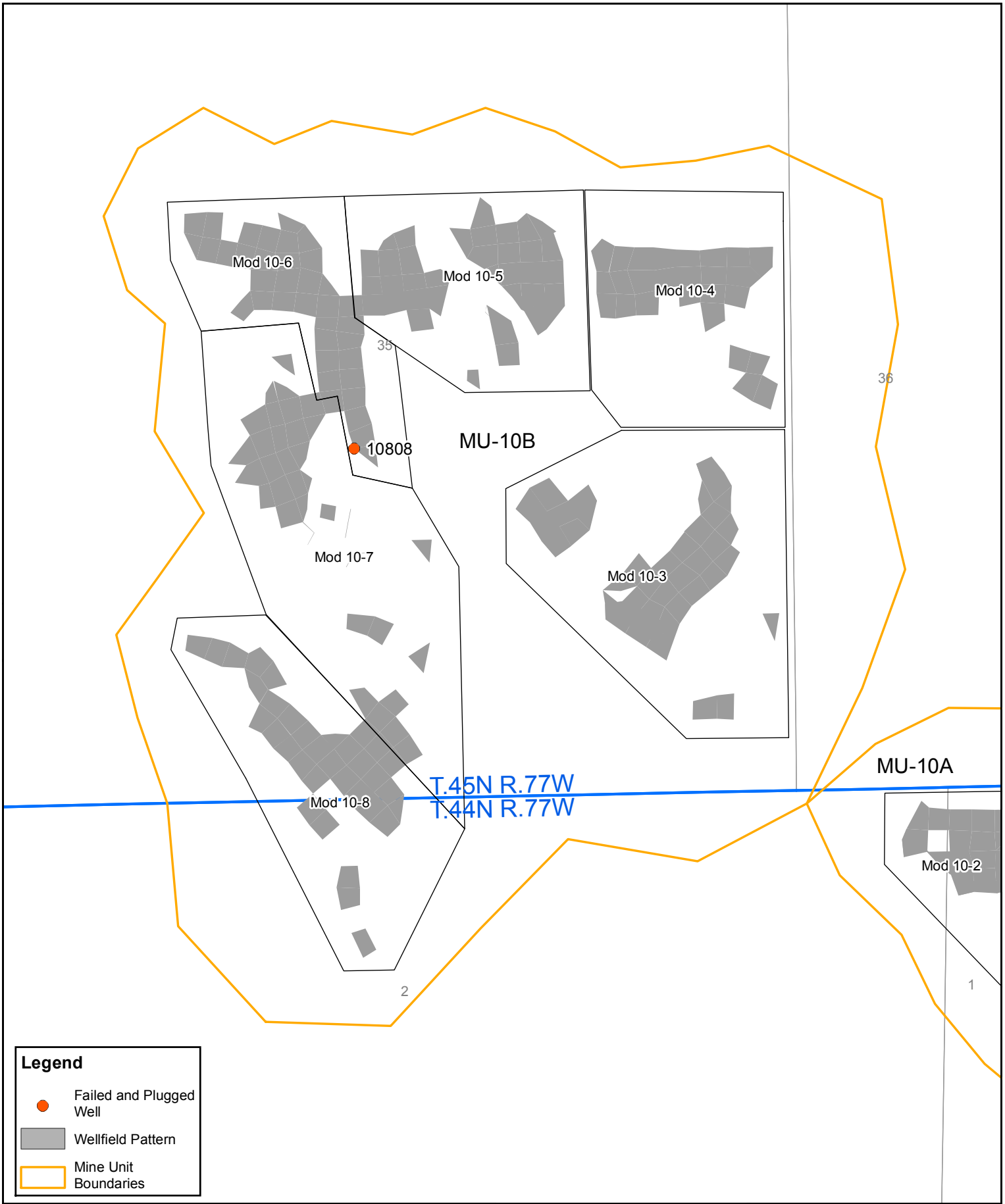

Mine Unit 10B Failed and Abandoned Wells

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APPENDIX 5

Willow Creek Uranium ISR Project
2015 Wildlife Monitoring

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PREPARED BY:

ICF International
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Gillette, Wyoming 82718
Contact: Brandon Smith
307-687-4761

December 2015

ICF International. 2015. Willow Creek Uranium ISR Project, 2015 Wildlife Monitoring. December. (ICF 00351.09) Gillette, WY. Prepared for Uranium One USA, Inc.

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Christensen Ranch 1

Irigaray 2

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Other Upland Game Birds 7

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Maps

Map 1. 2015 Wildlife Monitoring: Sage-grouse Leks and Raptor Nests……18

Acronyms and Abbreviations

GPS	global positioning system
ICF	ICF International
ISR	In Situ Recovery
Uranium One	Uranium One USA, Inc.
WGFD	Wyoming Game and Fish Department
Willow Creek	Willow Creek Uranium ISR

Introduction

Uranium One USA, Inc. (Uranium One) has developed two in situ uranium recovery (ISR) operations (Christensen Ranch and Irigaray, collectively known as Willow Creek Uranium ISR) in eastern Johnson and western Campbell counties, Wyoming. ICF International (ICF) conducted annual wildlife monitoring surveys at the Irigaray and Christensen Ranch operations from 1995 through 1999, but discontinued surveys in 2000, when operations at both sites were suspended. In preparation for renewed operations, Uranium One commissioned ICF to renew wildlife monitoring efforts at both properties in 2007, with full reinstatement of the annual wildlife monitoring program beginning in 2008.

Past wildlife surveys included voluntary, aerial winter surveys for big game, as well as all required surveys specified in Uranium One's Permit to Mine (No. 478-A2):

- Monitoring of known greater sage-grouse (*Centrocercus urophasianus*) leks and searches for new leks, and
- Surveys for known raptor nests and searches for new nesting raptors.

In 2015, ICF biologists again conducted surveys for sage-grouse leks and nesting raptors. Voluntary big game surveys were discontinued in 2009 and have not been conducted since then. This report summarizes specific information collected in 2015 for the Willow Creek Uranium ISR (hereafter, Willow Creek) wildlife monitoring program, as well as population trend data spanning previous monitoring years. The wildlife survey area, survey methods, and results are described below.

Survey Area

The Willow Creek wildlife survey area has varied over time, ranging from roughly 53.0 to 64.2 square miles. Beginning in 2009, the boundary for the wildlife survey area was modified to include a uniform 1.0-mile perimeter around both permit boundaries, totaling 64.2 square miles. That survey area was still current as of 2015.

Christensen Ranch

The Christensen Ranch permit area (including previous amendments) encompasses approximately 22.1 square miles and includes portions of Sections 24, 25, 34, and 35, T45N:R77W; Sections 19 and 31-33, T45N:R76W; Sections 1-3 and 10-12, T44N:R77W; and Sections 3-10 and 16-21, T44N:R76W (Map 1). Although the Christensen Ranch survey area (permit area and surrounding 1.0-mile perimeter) is quite large, activities associated with the actual uranium recovery have been limited to non-contiguous parcels that encompass a small portion of the area.

Topography throughout most of the survey area is generally rugged, featuring many long prominent ridges, rocky outcrops, and deep eroded draws. Much of the Christensen Ranch survey area is divided by numerous drainages associated with the North Butte plateau, which exists in the

extreme southeastern portion of the survey perimeter. Most of those drainages include exposed soil and sandstone with some rock ledges and escarpments. In contrast, the far southwestern portion of the monitoring area consists of more open terrain, a few deep drainages, and several rolling hills.

Grasslands are prevalent throughout the survey area, with generally shorter grasses in the uplands and much taller and dense grasses in the drainages. However, grass cover is generally sparse throughout the majority of the survey area, ranging from 25 to 35% bare ground in most places. Common species include junegrass (*Koeleria macrantha*), needle-and-thread (*Hesperostipa comata*), crested wheatgrass (*Agropyron cristatum*), cheatgrass (*Bromus tectorum*), native wheat grasses (*Pascopyrum* and *Elymus* spp.), bluegrasses (*Poa* spp.), Japanese brome (*Bromus japonicus*), Indian ricegrass (*Oryzopsis hymenoides*), blue grama (*Bouteloua gracilis*), and threadleaf sedge (*Carex filifolia*).

The most abundant shrub in the survey area is Wyoming big sagebrush (*Artemisia tridentata wyomingensis*). Sagebrush occurs in a patchy mosaic of sparse to moderately dense stands, with the greatest concentrations present along the drainages and on the gentler slopes. Less common shrubs within the survey area include currant (*Ribes* spp.), rabbitbrush (*Chrysothamnus viscidiflorus*), and Great Plains yucca (*Yucca glauca*). Small thickets of currant exist among the sandstone outcrops, with rabbitbrush and yucca present in most upland areas.

Relatively few trees exist within the survey area. Aside from the pine stands that occur along the slopes of the North Butte plateau, trees are primarily limited to cottonwoods (*Populus* spp.) along Willow Creek. However, small stands of mature cottonwoods, junipers (*Juniperus* spp.), and willows (*Salix* spp.) also exist within a few minor draws.

The primary drainage in the survey area is Willow Creek, which flows northwest through the center of the permit area. Numerous unnamed drainages also flow north or west into Willow Creek. Most of these drainages are dry for the majority of the year, with ephemeral flow only during heavier precipitation events.

Irigaray

The Irigaray permit area is limited to approximately 1.0 square mile that spans Sections 5, 8, 9, and 16, T45N:R77W (Map 1).

The Irigaray survey area is similar in many ways to the previously described Christensen Ranch survey area. With the exception of the North Butte plateau and its associated woodland habitats (i.e., conifer), most topography and habitat components are the same. The terrain in the Irigaray portion of the survey area is rugged and heavily dissected by numerous steep drainages. Willow Creek bisects the area from southeast to northwest and flows to the Powder River, just west of the 1.0-mile survey perimeter. Sparse grasslands and moderately dense stands of sagebrush shrublands are generally present along the ridgelines and drainages, respectively. Individuals and small stands of cottonwood trees occur along Willow Creek, but few trees are found elsewhere.

Methods

Greater Sage-grouse

According to the Wyoming Game and Fish Department (WGFD), eight greater sage-grouse leks are known to exist within 1.0 mile of the Irigaray and Christensen Ranch permit areas (WGFD, 2015a). Although none of the leks are located within the Irigaray permit area, three leks (Christensen Ranch 1, 3, and 7) are located within the Christensen Ranch permit area. The five remaining leks (Irigaray and Irigaray II, and Christensen Ranch 2, 4, and 5) are located within the surrounding survey perimeter (Map 1).

Both aerial surveys and ground-based counts for sage-grouse leks were conducted during spring 2015. Aerial surveys were used primarily as a means to search for new leks, while ground surveys were used to confirm activity and obtain accurate counts at the known leks. Aerial surveys were conducted on the mornings of April 4, 13, and May 1 and ground counts were conducted on April 6, 13, 14, 20, 29, and May 4.

The aerial surveys were completed between 30 minutes before and 1 hour after sunrise in a fixed wing Cessna 172 and 172XP. In each plane, two ICF biologists and a pilot flew north-south transects spaced at 0.62-mile (1.0-kilometer) intervals over both permit areas and the surrounding 1.0-mile perimeter at a speed and altitude of 80 to 100 mph and 100 to 300 feet above ground level, respectively. Ground-based counts were conducted between 30 minutes before and 30 minutes after sunrise. During the ground surveys, biologists also searched for displaying grouse while slowly driving through the area, concentrating efforts in likely lek habitat (level to rolling sagebrush-grassland). Frequent stops were also made at vantage points to scan and listen for strutting birds. Biologists also watched for and recorded grouse or their sign (droppings, fecal deposits, or feathers) during all other wildlife surveys. In addition, all lek data that was collected was recorded in a central database for shared access (BLM, 2015b). This was used to confirm lek activity.

Raptors

Raptor nest monitoring at known sites and searches for new nests were conducted from mid-April through July, 2015. Guidelines recommended by Rosenfield et al. (2007) were followed to prevent nest abandonment and injury to eggs or young. Early in the breeding season, known nests were monitored from a distance with the aid of binoculars and a spotting scope. Nests were not approached on foot until after May. All nests previously identified within the survey area were checked at least once during the breeding season.

New nests were located by walking or slowly driving throughout the survey area and frequently stopping to examine typical nesting habitat. Rough breaks and tree groves were searched on foot. Personnel continually watched for adult raptors and noted behavior that could indicate a nearby nest. Areas where individuals or pairs were repeatedly seen were thoroughly searched for nests. Seven small prairie dog colonies, totaling 288 acres (0.45 square miles) and representing potential burrowing owl (*Athene cunicularia*) habitat, were also carefully searched (Map 1).

The substrate, condition, status, location, and other site-specific information were recorded for all raptor nests. Universal Transverse Mercator (UTM NAD83, Zone 13N) coordinates (uncorrected, less than 10m accepted error) for new nests were determined using a hand-held global positioning system (GPS) receiver. The status (active, inactive, alternate, etc.) and condition of nests and the number of young successfully hatched and raised to fledglings were recorded for each nest.

Results

Greater Sage-grouse

Although suitable sage-grouse habitat exists throughout much of the survey area, neither the permit areas nor the surrounding survey area are situated within the sage-grouse core population areas or defined connectivity corridors identified by the state of Wyoming (Executive Order No. 2015-4, 2015).

Eight greater sage-grouse leks have been documented within the Willow Creek survey area. Three leks (Christensen Ranch 1, 3, and 7) are located within the Christensen Ranch permit area. The five remaining leks (Irigaray and Irigaray II, and Christensen Ranch 2, 4, and 5) are located within the surrounding survey perimeter (Map 1). Seven of the leks are currently designated as occupied, and one (Christensen Ranch 3) is designated as undetermined. However, with the inclusion of the counts conducted from 2013 through 2015, sufficient data exists to change the management designation of the Christensen Ranch 3 lek to unoccupied (Wyoming Sage-grouse Definitions, 2011).

Four leks were active and four leks were inactive in spring 2015 (Table 1). The Christensen Ranch 1 lek was active with a peak male count of 15 on April 6. The Christensen Ranch 4 lek was active with a peak male count of 37 on April 29. This was the highest number of males recorded at the Christensen Ranch 4 lek since 1999. The Christensen 5 lek was active with a peak male count of 12 on April 14, which was the highest count that has ever been recorded at this lek. As in previous years, grouse were again seen at the alternate location for the Irigaray II lek (both locations are listed in Table 1 and mapped in Figure 1). On April 20, one displaying male was seen. Although a female was observed at the Irigaray lek on April 20, by WGFD definitions, the Irigaray lek was inactive in 2015. The Christensen Ranch 2, 3, and 7 leks were all inactive in 2015.

Four of the leks (Irigaray and Christensen Ranch 1-3) were discovered in 1989. The Christensen Ranch 4 and 5 leks were discovered in 1998 and 1999, respectively, and the Irigaray II and Christensen Ranch 7 leks were discovered in 2005 (WGFD, 2015b). Most sage-grouse leks were monitored nearly every year since their respective discoveries, whether by agency (WGFD) or consultant biologists. As a result, long-term data are available for each site (Table 2 and Figure 1).

Table 1. Locations and 2015 observations at greater sage-grouse leks in Willow Creek survey area.

Lek Name	Lek Status	UTM X (UTM NAD83, Zone 13N)	UTM Y (UTM NAD83, Zone 13N)	¼ ¼ Section, T(N):R(W)	Survey Date	Type of Survey	Number of Displaying Males
Christensen Ranch 1	Occupied	416484	4846657	SW SW 19, 44:76	4/4/2015	Aerial	14
					4/6/2015	Ground	15*
					4/20/2015	Ground	14*
Christensen Ranch 2	Occupied	415500	4847700	NE NE 24, 44:77	4/6/2015	Ground	0
					4/13/2015	Aerial	0
					4/20/2015	Ground	0
Christensen Ranch 3	Undetermined	415500	4850600	NE NE 12, 44:77	4/6/2015	Aerial	0
					4/13/2015	Ground	0
					4/20/2015	Ground	0
Christensen Ranch 4	Occupied	416981	4856764	SE NE 19, 45:76	4/4/2015	Ground	0
					4/13/2015	Ground	8
					4/29/2015	Ground	37
Christensen Ranch 5	Occupied	418106	4853705	NE NW 32, 45:76	4/4/2015	Aerial	4
					4/14/2015	Ground	12
					5/1/2015	Aerial	0
Christensen Ranch 7	Occupied	412682	4850520	SW NW 11, 44:77	4/4/2015	Aerial	0
					4/6/2015	Ground	0
					4/13/2015	Aerial	0
Irigaray	Occupied	409300	4854500	NE SE 29, 45:77	4/6/2015	Ground	0
					4/13/2015	Aerial	0
					4/20/2015	Ground	0*
Irigaray II^	Occupied	410646	4854324	SE SE 28, 45:77	4/6/2015	Ground	0
					4/13/2015	Aerial	0
					4/20/2015	Ground	1*

^ Data includes survey results from alternate lek location (UTM 410333, 4854290)
* One or more female sage-grouse were also observed.

The grouse population in the Willow Creek survey area, as measured by male attendance at the monitored leks, has been cyclic over the years (Figure 1). The cumulative peak attendance declined from 1989 through 1995 and remained quite low through 1997 (Figure 1). However, populations began to increase in 1998, rising to a cumulative high of 69 males in 2006. It should be noted that leks were only monitored sporadically in 2000 and 2001, and according to the WGFD database records, only the Irigaray lek was monitored in 2002. Between 2006 and 2011, the peak male counts declined again; however, the numbers increased in 2012. In 2013 and 2014, the male numbers dropped slightly, and was likely attributed to the hot and dry conditions experienced throughout Wyoming in the previous years. With the exception of the Irigaray II lek, grouse numbers at all active leks were increased in 2015.

Table 2. Peak male counts at greater sage-grouse leks in the Willow Creek survey area from 1989 through 2015.

Year	CR 1	CR 2	CR 3	CR 4	CR 5	CR 7	Irigaray	Irigaray II
1989	23	---	9	---	---	---	10	---
1990	16	---	4	---	---	---	6	---
1991	21	3	0	---	---	---	2	---
1992	13	6	0	---	---	---	6	---
1993	8	10	0	---	---	---	5	---
1994	4	3	0	---	---	---	5	---
1995	3	1	1	---	---	---	2	---
1996	7	0	0	---	---	---	1	---
1997	7	0	0	---	---	---	1	---
1998	10	0	0	7	---	---	5	---
1999	7	0	0	43	11	---	0	---
2000[a]	---	---	---	22	10	---	---	---
2001[a]	16	---	---	11	4	---	---	---
2002[a]	---	---	---	---	---	---	0	---
2003[a]	12	0	0	15	0	---	0	---
2004[a]	12	0	0	14	0	---	0	---
2005[a]	25	0	0	24	0	2	0	14
2006[a]	28	2	0	23	5	0	1	10
2007	28	0	0	19	0	1	0	7
2008	19	0	0	17	1	0	10	12
2009	11	0	0	12	0	0	0	5
2010	6	0	0	17	0[b]	1	0	2
2011	10	0	0	12	3	0	0	4
2012	21	0	0	17	1	1	0	3
2013	16	0	0	14	0	1	0	2
2014	10	0	0	16	2	0	0	4
2015	15	0	0	37	12	0	0	1

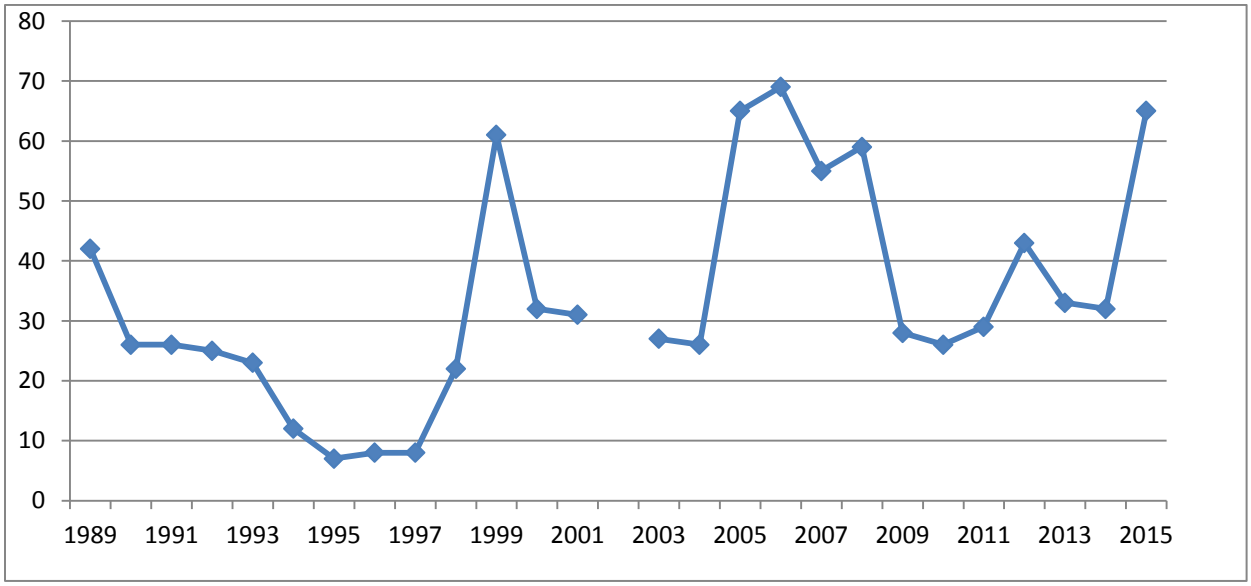
CR = Christensen Ranch

--- = Lek was not discovered or monitored in the given year.

[a] Peak male counts from the WGFD database; not all leks were monitored in all years.

[b] Four males were observed at this lek by other surveyors in 2010 (WGFD, 2015b).

Figure 1. Cumulative peak male sage-grouse lek attendance in Willow Creek survey area during spring surveys from 1989 through 2015[1].



[1]Not all leks were monitored between 2000 and 2002.

Sage-grouse habitat is relatively abundant within the survey area and observations of sage-grouse beyond the known lek sites typically occur in appropriate habitats. A few potential lek sites have been identified in past years, but no additional leks have been officially designated by the WGFD, due to the inconsistent use of those sites. No new leks were documented in 2015. Three groups of sage-grouse were observed outside active leks in 2015. On April 13, two males were observed foraging on a scoria road in NW SE Section 32, T45N:R76W. On April 14, the observer flushed two males in sagebrush habitat in NW SE Section 36, T45N:R77W. On April 23, 9 sage-grouse were observed flying in NW NW Section 14, T44N:R77W.

Other Upland Game Birds

Besides the aforementioned greater sage-grouse, mourning doves (*Zenaida macroura*) were the only other upland game birds observed during the 2015 season.

Raptors

A compilation of all known datasets, including the current BLM database (BLM, 2015), lists more than 200 raptor nest sites within the Willow Creek survey area. However, duplicate agency records exist for some nests, and ICF biologists have confirmed (through several years of monitoring) that numerous others are characteristic of black-billed magpie (*Pica hudsonia*) nests. Although some species of raptors may use intact magpie nests (e.g., the long-eared owl [*Asio otus*] and merlin [*Falco columbarius*]), the construction and orientation of magpie nests typically provide inadequate support or access for most raptor species. But as magpie nests become dilapidated over time, they may provide better access and serve as an initial base for raptors to

add additional nesting material; therefore, ICF biologists will include these nesting sites in the totals below and will continue to monitor these sites, as well as all confirmed raptor nests, in future years.

Consequently, 158 valid raptor nest records existed within the current Willow Creek survey area in 2015. All records are listed in Table 3 and displayed in Map 1. Over time, several of those nests were destroyed by natural or man-made causes, including four that were destroyed naturally between the 2014 and 2015 nesting seasons. In addition, one nest was not monitored in 2015, due to landowner access restrictions. As a result, 82 nests were confirmed intact and monitored at the end of the 2015 breeding season. Those nests included:

16 red-tailed hawk (*Buteo jamaicensis*) nests,

10 ferruginous hawk (*Buteo regalis*) nests,

3 great horned owl (*Bubo virginianus*) nests,

1 golden eagle (*Aquila chrysaetos*) nests,

2 long-eared owl nests,

1 American kestrel (*Falco sparverius*) nest,

34 unknown raptor species nests,

4 red-tailed hawk/great horned owl nests,

3 unknown raptor species/golden eagle nests,

2 unknown raptor species/great horned owl nests,

1 unknown raptor species/red-tailed hawk nest,

1 unknown raptor species/long-eared owl nest,

2 golden eagle/ red-tailed hawk nests,

1 red-tailed hawk/long-eared owl nest, and

1 red-tailed hawk/great horned owl/Swainson's hawk (*Buteo swainsoni*) nest.

Nine raptor nests were active within the Willow Creek survey area during 2015. Those included five red-tailed hawk nests, two golden eagle nests, and two great horned owl nests (Table 3).

Fluctuations in raptor nesting attempts and success rates are often linked to variations in prey availability. Large raptor species such as golden eagles, ferruginous hawks, red-tailed hawks, and great horned owls, prey predominantly on lagomorphs (rabbits and hares). Lagomorph surveys are not required for in situ uranium operations in Wyoming. However, surveys for lagomorphs in other parts of the Powder River Basin indicate that populations were severely reduced from 1993 through 1996 and fall 2008 through 2013. Lagomorph populations did rebound some in 2014 and even more in 2015 and increases in prey abundance may have influenced the amount of active raptor nests in those years (ICF, unpublished data).

Table 3. Raptor nest locations, status, and productivity in the Willow Creek survey area from 2011 through 2015.

Nest No.	Code	¼ ¼	Sec	T-R	2011	2012	2013	2014	2015
AMK1	CLF	SE NW	5	45-77	I	D-N	---	---	---
AMK2	ROC	SE SE	4	44-76	I	D-N	---	---	---
AMK3	CW	NE SW	29	44-76	A,?,?	I	I	A,?,?	I
FH1a	CB	NW SW	34	45-77	I	A,3,3	I	I	I
FH1b	CB	SE SW	34	45-77	I	ALT	I	I	I
FH2a	SS	NE NE	28	45-77	D-N in 1998	---	---	---	---
FH2b	ROC	SW SE	21	45-77	D-N in 2009	---	---	---	---
FH2c	SS	NE NE	28	45-77	D-N in 2010	---	---	---	---
FH2d	CB	NW SE	28	45-77	I	I	I	I	I
FH3a	G	SE SW	19	45-76	I	I	I	I	I
FH3b	CB	NE SW	19	45-76	D-N in 2009	---	---	---	---
FH4a	ROC	SW SE	11	44-77	D-N in 2010	---	---	---	---
FH4b	CB	NE NE	14	44-77	I	I	I	I	I
FH4c	CB	NE NE	14	44-77	I	I	I	I	I
FH6	W	NE NE	30	44-76	D-N in 2008	---	---	---	---
FH7a	ROC	SE NE	20	45-76	D-N in 2011	---	---	---	---
FH7b	ROC	SE NE	20	45-76	D-N in 2010	---	---	---	---
FH7c	ROC	NW SW	21	45-76	I	I	I	I	I
FH7d	CB	SE SE	20	45-76	D-N in 2010	---	---	---	---
FH7e	ROC	SE SE	20	45-76	---	---	---	---	I
FH8	CB	SE NE	2	44-77	I	I	I	I	I
FH9	G	SW SW	24	44-77	---	---	I	I	I
GE1a	CB	NW SW	8	44-76	D-N in 2011	---	---	---	---
GE1b	CLF	NW SW	8	44-76	D-N in 2010	---	---	---	---
GE1c	CLF	SW SW	8	44-76	D-N in 2010	---	---	---	---
GE4a	CW	NE SW	27	44-76	I	I	D-N	---	---
GE4b	CW	NE SW	27	44-76	I	I	D-N	---	---
GE4c	CW	NW SE	27	44-76	D in 2006	---	---	---	---
GE4d	CW	SW SE	27	44-76	D-N in 2008	---	---	---	---
GE5	CLF	NE SE	36	45-77	D-N	---	---	---	---
GE6a	CW	NE NE	23	45-77	D-N in 2009	---	---	---	---
GE6b	CW	SW SW	24	45-77	D-N in 2005	---	---	---	---
GE7	CW	SE NE	26	45-77	D-N in 2009	---	---	---	---
GE8a	POL	NW SW	10	44-76	D-N in 2011	---	---	---	---
GE8b	PP	NW NW	15	44-76	I	ALT	I	I	I
GHO2b	CW	NW NE	8	45-77	D-N in 2011	---	---	---	---
GHO4b	ROC	SE NE	32	45-76	D-N in 2009	---	---	---	---
GHO7a	CW	SE NE	9	45-77	D-N in 2009	---	---	---	---
GHO8	CW	NW SE	22	45-77	D-N in 2011	---	---	---	---
GHO9b	CW	NW NW	27	45-77	D-N in 2009	---	---	---	---
GHO9c	CW	NW NW	27	45-77	D-N in 2009	---	---	---	---

Table 3. Continued.

Nest No.	Code	¼ ¼	Sec	T-R	2011	2012	2013	2014	2015
GHO10a	BOX	NE NE	32	45-76	I	A,3,3	I	A,?,?	I
GHO11a	CW	SW NE	36	45-77	D-N in 2009	---	---	---	---
GHO12a	CW	SE SE	8	44-76	I	I	I	I	I
GHO13	CW	NW NW	19	44-76	I	I	I	I	D-N
GHO14b	CW	SE SW	13	44-77	D-N in 2011	---	---	---	---
GHO15b	CW	SE SE	25	44-77	I	D-N	---	---	---
GHO16a	CW	SW NE	30	44-76	D-N in 2011	---	---	---	ALT
GHO17a	CW	SW NE	6	45-77	I	ALT	I	D-N	---
H1	G	NE NE	18	44-76	D-N in 1999	---	---	---	---
LEO1	CW	SE NW	19	45-76	I	I	I	I	I
LEO2	JU	SE NW	22	44-76	U	I	I	I	I
RTH1a	CW	SE SE	5	45-77	D-N in 1996	---	---	---	---
RTH1c	CW	NW NW	9	45-77	D-N in 2010	---	---	---	---
RTH1d	CW	SW SW	4	45-77	Rebuilt; A,?,?	A,1+,1	I	A,2,2	A,2,2
RTH2b	CW	SE SE	21	44-76	D-N in 2009	---	---	---	---
RTH2c	CW	SE SE	21	44-76	A-T	I	I	I	I
RTH3a	CW	SW NW	33	45-76	A,?,?	A,2,2	I	I	I
RTH3b	CW	SW NW	33	45-76	ALT	ALT	I	I	I
RTH4a	CW	SE SW	1	44-77	D-N in 2009	---	---	---	---
RTH4b	ROC	SW NW	1	44-77	A,?,?	A-T	I	I	I
RTH4d	CLF	SW NW	1	44-77	I	ALT	I	I	I
RTH5b	CW	NW SE	33	45-77	D-N in 1997	---	---	---	---
RTH8a	CW	NE SE	21	45-77	D-N in 1995	---	---	---	---
RTH8b	CW	SW SE	21	45-77	D-N in 2010	---	---	---	---
RTH8d	CW	SW NW	21	45-77	I	I	I	A,1,1	A,1,1
RTH11	CW	NW NW	13	44-77	I	I	I	I	I
RTH12	CW	NW NW	35	45-76	D-N in 2011	---	---	---	---
RTH13b	CW	NW SE	25	44-77	I	ALT	I	I	I
RTH13c	CW	NW SE	25	44-77	I	ALT	I	I	I
RTH13d	CW	SE SE	25	44-77	---	---	A,3,3	A,?,?	ALT
RTH13e	CW	SE SE	25	44-77	---	---	---	---	A,1+,1+
RTH14a	CW	SE NE	9	45-77	I	D-N	---	---	---
RTH18	CW	SW SW	18	44-76	I	I	I	I	I
RTH20a	CW	SW NE	30	44-76	I	ALT	I	D-N	---
RTH20b	CW	NW SE	30	44-76	---	A-T	I	I	I
RTH21a	CW	NW SE	27	44-76	I	I	I	I	I
RTH21b	CW	NW SE	27	44-76	I	I	UNK	D-N	---
RTH22a	CW	SW NE	6	45-77	I	I	UNK	D-N	---
RTH22b	CW	SW NE	6	45-77	I	I	UNK	D-N	---
RTH23	CW	NE SE	17	45-77	I	A,1,1	I	I	I
RTH26	CW	SW SE	32	45-76	D-N in 2010	---	---	---	---

Table 3. Continued.

Nest No.	Code	¼ ¼	Sec	T-R	2011	2012	2013	2014	2015
UNK1	CW	NE SW	16	45-77	D-N in 2010	---	---	---	---
UNK2	CW	NW SE	9	45-77	D-N in 2011	---	---	---	---
UNK5	CW	NW SE	22	45-77	D-N in 2008	---	---	I	BBMA
UNK6	CW	NE NE	23	45-77	D-N in 2009	---	---	---	---
UNK7	CW	NW NE	23	45-77	D-N in 2008	---	---	---	---
UNK8	CW	SE SE	24	45-77	I	I	I	I	I
UNK9	CW	NE SW	26	45-77	D-N in 2009	---	---	---	---
UNK11	CW	SW SW	36	45-77	I	D-N	---	---	---
UNK14	CW	NE NE	1	44-77	I	I	I	I	I
UNK16	CW	SW NW	8	44-77	I	BBMA	BBMA	I	BBMA
UNK17	WIL	NW NE	16	44-76	I	I	I	I	I
UNK18	PP	SE NW	10	44-76	I	BBMA	BBMA	BBMA	BBMA
UNK20	POL	NE NW	15	44-76	I	I	D-N	---	---
UNK21	CW	SW SW	33	46-77	I	I	D-N	---	---
UNK23	CW	NE NE	20	45-76	I	I	UNK	I	I
UNK26	JU	SE SW	32	45-76	I	BBMA	BBMA	BBMA	BBMA
UNK27	JU	SE SW	32	45-76	I	I	I	I	D-N
UNK28	JU	SE SW	32	45-76	I	I	I	I	BBMA
UNK29	CW	SE SE	17	45-76	I	I	UNK	I	I
UNK31	CW	SE SW	33	46-77	I	I	I	I	I
UNK32	CW	NE SE	27	44-76	I	I	UNK	UNK	UNK
UNK33	CW	NW SW	5	45-77	D-N in 2011	---	---	---	---
UNK35	CW	NW SW	5	45-77	I	BBMA	UNK	BBMA	BBMA
UNK36	CW	NE SW	5	45-77	D-N in 2011	---	---	---	---
UNK37	CW	NE SW	5	45-77	I	I	I	I	BBMA
UNK38	CW	NE SW	5	45-77	I	I	I	I	I
UNK39	CW	NE SW	5	45-77	I	D-N	---	---	---
UNK40	CW	NE SW	5	45-77	D-N in 2011	---	---	---	---
UNK41	CW	NE NE	23	45-77	I	I	I	I	I
UNK42	JU	SE NE	2	44-77	I	I	I	I	I
UNK43	CW	SE NW	1	44-77	I	D-N	---	---	---
UNK47	CW	NE SE	36	45-77	I	I	D-N	---	---
UNK48	CLF	NE NE	14	44-77	I	I	I	I	I
UNK49	CW	SE SW	29	44-77	I	D-N	---	---	---
UNK50	CW	NW NE	17	44-76	D-N in 2009	---	---	---	---
UNK51	CW	NE NE	4	44-76	I	I	I	I	BBMA
UNK52	CW	SW NW	9	44-76	I	I	I	I	I
UNK53	CW	SW NW	9	44-76	I	I	I	D-N	---
UNK54	CW	SE SE	8	44-76	I	I	I	I	I
UNK55	JU	NE NW	16	44-76	I	I	I	I	I
UNK56	CW	NW NW	19	44-76	I	I	I	I	I
UNK57	CW	NE NE	1	44-77	I	I	I	I	I

Table 3. Continued.

Nest No.	Code	¼ ¼	Sec	T-R	2011	2012	2013	2014	2015
UNK58	CW	NW SW	9	44-76	---	I	I	I	D-N
UNK59	WIL	NE NW	21	44-76	---	I	I	I	I
UNK60	CW	SE SW	16	44-76	I	I	D-N	---	---
UNK61	CW	NE NE	5	44-76	I	I	I	I	I
UNK62	CW	SW SW	16	44-76	I	I	I	I	I
UNK63	CW	SE SE	17	44-76	I	I	I	I	I
UNK64	JU	SE SW	15	44-76	I	I	I	I	I
UNK65	CW	NE NE	29	44-76	I	I	I	I	I
UNK66	CW	NE NW	27	45-77	I	I	I	I	I
UNK67	JU	NE NW	3	44-76	---	I	I	I	I
UNK68	JU	NW SW	28	45-76	---	I	I	I	I
UNK69	CW	SE SE	32	46-77	---	---	I	I	BBMA
UNK70	CW	SE SW	3	44-76	---	---	I	I	I
GE9a/RTH24b	CW	NE NE	29	44-76	ALT	ALT	I	I	A,1,1^{RTH}
GE11/RTH27a	CW	NE NW	20	45-76	---	---	---	---	---
RTH2a/GHO3	CW	SW SE	21	44-76	Rebuilt^{RTH}; A,?,?^{GHO}	I	I	I	D-N
RTH4c/LEO3	CW	SW SW	2	44-77	I	A,1+,1^{LEO}	I	I	I
RTH8c/GHO5	CW	SE NE	21	45-77	D-N in 2011	---	---	---	---
RTH10a/GHO4a	CW	SE SW	16	44-76	I	I	I	D-N	---
RTH10b/GHO4b	CW	NW NE	21	44-76	I	I	I	A,3,3^{RTH}	A,3,3^{GHO}
RTH13a/GHO15a/SH1	CW	NW SE	25	44-77	A,?,?^{SH}	A,1+,1^{RTH}	I	I	I
RTH16a/GHO9a	CW	SW NW	27	45-77	I	A,1+,1^{RTH}	I	I	I
RTH17a/GHO12b	CW	SW NW	9	44-76	A,2,2^{RTH}	I	A,2,2^{RTH}	A,0,0^{RTH}	A,2+,2+^{RTH}
RTH19/GHO14a	CW	SE SW	13	44-77	D-N in 2008	---	---	---	---
RTH24a/GHO16b	CW	NE SW	29	44-76	I	I	A,2+,2	I	A,2,2^{GHO}
RTH25/GE13	CW	NE SE	28	45-76	I	A-T ^{RTH}	I	A,1,1^{GE}	I
UNK3/GE12	CW	NE NE	15	45-77	I	I	A,2+,2^{GE}	A,2,2^{GE}	A,2,2^{GE}
UNK10/GHO11b	CW	SE SW	25	45-77	I	A,1,1^{GHO}	I	I	I
UNK19/GE8c	CLF	NW NE	15	44-76	I	A,1+,0^{GE}	I	I	I
UNK24/RTH27b	CW	SW SE	20	45-76	I	A,?,?^{RTH}	I	I	I
UNK34/GHO17b	CW	NW SW	5	45-77	I	A,1,1^{GHO}	I	I	I
UNK44/RTH28	CW	NW SW	6	44-76	A,?,?^{RTH}	I	D-N	---	---
UNK45/GE9b	CW	NW NW	20	44-76	A,1,1^{GE}	A,1,1^{GE}	A,1,1^{GE}	A,1,1^{GE}	A,2,2^{GE}
UNK46/LEO4	JU	NW NW	28	45-76	BBMA	A,1+,1^{LEO}	I	I	I
American Kestrel Subtotals					1,?,?	0	0	1,?,?	0
Ferruginous Hawk Subtotals					0	1,3,3	0	0	0
Golden Eagle Subtotals					1,?,?	2,2+,1	2,3+,3	3,4,4	2,4,4
Great Horned Owl Subtotals					0	3,5,5	0	1,?,?	2,5,5

Table 3. Continued.

	2011	2012	2013	2014	2015
Swainson's Hawk Subtotals	1,?,?	0	0	0	0
Long-earned Owl Subtotals	0	2,2+,2	0	0	0
Red-tailed Hawk Subtotals	5, 2+,2+	9,6+,6	3,7+,7	5,6+,6+	5,7+,7+
Grand Totals	8,2+,2+	17,18+,17	5,10+,10	10,10+,10+	9,16+,16+

X,#,# = Status, number of young hatched, number of young fledged.
? = Unknown number of young hatched or fledged.
#+ = Minimum estimate of young.

Species Codes
AMK = American kestrel
BBMA = Black-billed magpie
FH = Ferruginous hawk
GE = Golden eagle
GHO = Great horned owl
H = Northern harrier
LEO = Long-eared owl
RTH = Red-tailed hawk
SH = Swainson's hawk
UNK = Unknown species

Nest Substrate Codes
BOX = Boxelder
CLF = Cliff
CB = Creek bank
CW = Cottonwood
G = Ground
JU = Juniper
POL = Power pole
PP = Ponderosa pine
ROC = Rock
SS = Sandstone pillar
W = Windmill
WIL = Willow

Nest Status Codes
A = Active
ALT = Alternate nest
A-T = Active-tended/no eggs laid
BBMA = Nest is characteristic of a black-billed magpie nest, and is not currently suitable for most raptor species.
D = Destroyed by other means, including manmade causes
D-N = Destroyed, natural causes
I = Inactive
UNK = Unknown
--- = Undiscovered or nonexistent

Over time, raptor productivity (total number of fledged young) has fluctuated from as few as 0 (2009) to at least 28 (1998) total fledged young throughout the survey area (Table 4). Productivity was relatively low from 1991 through 1996 and from 2008 through 2011, but increased in subsequent survey years. Raptor production was the greatest in 1998 and 1999, with relatively high fledgling counts also in 2007 and 2012. The high productivity in 1998 was primarily attributable to the enlargement of the survey area that year, though high prey populations (lagomorphs) throughout the region in 1996 and 2005 through 2007 (ICF, unpublished data) likely contributed to greater raptor production during those periods. In contrast, lagomorph counts declined considerably in 2008 and continued to remain low through 2011, with increases in the following 4 years (2012 through 2015). Reduced lagomorph indices between 2008 and 2011 were primarily due to one factor. The extremely high density of lagomorphs in 2006 and 2007 triggered an outbreak of tularemia, which was documented in Campbell County the following year. That disease has been known to contribute to the cyclic nature of lagomorph populations in the region, and possibly impacted the population through 2011 as well. Consequently, raptor productivity was extremely low from 2008 through 2011.

Raptor productivity in the Willow Creek survey area in 2015 was similar to 2013 and 2014. Weather conditions in 2013 were particularly challenging, as the Willow Creek survey area and surrounding region experienced 3 consecutive weeks of severe snow storms starting in mid-April 2013, followed by repeated heavy rain, wind, and hail storms. The harsh conditions that resulted

from the severe spring weather that year likely influenced multiple raptor nesting efforts and their overall production in consecutive years. Weather conditions in 2015 were also challenging due to frequent heavy rain and hail. Furthermore, the lagomorph populations in 2015 were only slightly higher than the previous years (2013 and 2014) average.

Red-tailed hawks are common nesters in the survey area, and were more abundant than other raptor species in most survey years (Table 4). Although the number of nesting pairs of red-tailed hawks within the overall survey area has fluctuated in recent years, at least one pair successfully nested in 12 of the 18 years that surveys were conducted (1991 through 1999 and 2007 through 2015). At the beginning of the 2015 breeding season, 25 intact red-tailed hawk nests (including multiple species nests) were present in the survey area. Of those, five nests were active in 2015, with the breeding pairs collectively fledging at least seven young.

Golden eagles have also regularly nested in the Willow Creek survey area. One golden eagle pair (GE1, Map 1) nested near the Christensen Ranch facilities with some regularity since 1987. The pair has had a history of failed nesting attempts due to their repeated use of a friable cliff bank along Willow Creek as a nest site. From 1987 through 1995, three separate nesting attempts were unsuccessful due to structural failures in the cliff wall either above or below the occupied nest. Chicks perished during two of the incidents, and eggs were destroyed during the third. In 1996, the pair again built a nest on the cliff bank; the nest remained intact and one eaglet fledged. Young also fledged from that nest in two of the subsequent 3 years. The pair was successful in fledging two young in 2006, but only tended an alternate nest in the territory the next year and did not lay eggs. In 2008, the cliff nest site used by the pair once again failed, and all nest sites in the territory were destroyed by natural causes by 2011.

From 1991 through 1997, three additional golden eagle territories were present within or immediately adjacent to the Willow Creek survey area. By 2007, at total of nine golden eagle territories had been recorded within the overall survey area. In 2015, a total of 13 golden eagle territories were identified. During 13 of the 18 years surveys were conducted (1991 through 1999 and 2007 through 2015), at least one pair of golden eagles fledged young. In 2015, six intact golden eagle nests (including multiple species nests) were present within the survey area with two being active. The GE12 pair fledged two young from the UNK3/GE12 nest and the GE9 pair fledged two young from the UNK45/GE9b nest.

Multiple ferruginous hawk territories were first identified in the survey area in 1996. A single adult ferruginous hawk was observed bringing sticks to the FH1a nest (Map 1) in both 1996 and 1997, but no eggs or young were seen in either year. In both of the following 2 years (1998 and 1999), the FH1 pair nested and fledged a total of five young. In more recent years, the FH1 pair successfully nested in 2006, 2008, and 2012 and attempted to nest in 2007, but failed to fledge any young that year. A new ferruginous hawk nest was found in 2015 resulting in 10 intact nests within the survey area; however, none were active in 2015.

Great horned owls were found nesting in the area in 1991 and 1994, but their productivity during those years was not determined. No active nests were located in 1995 or 1996, although adult owls were observed roosting during each of those years. From 1997 through 1999, 2007 through 2009, and again from 2011 through 2012, great horned owls were recorded actively nesting each year fledging anywhere from zero to eight young. In 2015, 9 intact great horned owl nests were confirmed (including multiple species nests) present within the survey area and two were active.

Table 4. Annual productivity for nesting raptors in the Willow Creek survey area from 1991 through 1999 and 2007 through 2015.

	Number of young fledged/species						Total
Year	RTH	GE	GHO	FH	SH	LEO	
1991	---	1+	?	---	---	---	1+
1992	---	3+	0	---	---	---	3+
1993	---	0	0	---	---	---	0
1994	---	1+	?	---	---	---	1+
1995	1	1	0	---	---	---	2
1996	4	4	0	0	---	---	8
1997	7+	3	2+	0	---	---	12+
1998[a]	17+	4	4	3+	---	---	28+
1999	11	6	2	2	---	---	21
2000 to 2006: No surveys conducted							
2007	8+	0	8+	0	---	---	16+
2008	?	0	1+	2+	---	---	3+
2009	?	---	?	---	---	1	1+
2010	2+	0	---	---	---	---	2+
2011	2	1	?	---	?	---	3+
2012	6+	1	5	3	---	2+	17+
2013	7+	3+	0	0	0	0	10+
2014	6+	4	0	0	0	0	10+
2015	7+	4	5	0	0	0	16+
Annual Means[b]	**6.50**	**2.12**	**2.08**	**1.00**	**0.00**	**0.60**	**8.55**

\+ Indicates minimum estimate.
? Indicates final productivity was unknown.
--- Indicates that the species was not known to nest in area.

[a] Survey area was increased by 40 mi^2 in 1998.

[b] Means calculated within species by dividing total minimum number fledged by the number of years (not including unknown productivity years) the species nested within survey area.

Species Codes

FH = Ferruginous hawk
GE = Golden eagle
GHO = Great horned owl
LEO = Long-eared owl
RTH = Red-tailed hawk
SH = Swainson's hawk

The GHO4 pair fledged three young from the RTH10b/GHO4b nest and the GHO16 pair fledged two young from the RTH24a/GHO16b nest.

Long-eared owls have occasionally been documented in the Willow Creek survey area. The first active nest was recorded in 2006, but productivity at the nest was unknown that year. In 2010, the LEO2 pair fledged one young. In 2015, both known nests were intact, but inactive.

Conclusion

Habitats throughout the permit area are adequate to support greater sage-grouse year round; however, the project area is located outside the State of Wyoming sage-grouse core population area and defined connectivity corridors. There are seven occupied and one undetermined sage-grouse leks within 1.0 mile of the permit area. The Christensen Ranch 1, 4, and 5 leks along with the Irigaray II lek were active in 2015. The Christensen 1 lek was active with a peak male count of 15. The Christensen 4 lek was active with a peak male count of 37 and the Christensen 5 lek was active with a peak male count of 12. The Irigaray II lek was active with a peak male count of 1. With the exception of the Irigaray II lek, grouse numbers at all active leks were increased in 2015.

There were nine active raptor nests within the survey area in 2015; five red-tailed hawks, two golden eagles, and two great-horned owls. Together, they fledged at least 16 young.

Qualifications

Surveys were conducted by Brandon Smith and Stephanie Kane. Brandon Smith also prepared this report.

Brandon Smith is a project manager and wildlife biologist with ICF International. He earned a BS degree in Wildlife Biology from the University of Montana (2008). He has worked on sage-grouse and raptor studies in Wyoming, Idaho, Colorado and Montana. Other wildlife he has worked with includes eagles, songbirds, and mule deer (*Odocoileus hemionus*). He has primarily been working in the energy industry in Colorado and Wyoming conducting ground and aerial telemetry for various research studies on sage-grouse and raptors.

Stephanie Kane is a project manager and wildlife biologist with ICF International and has worked with ICF since 2013. She earned an MS degree in Biology from Ft. Hayes State University (2011) and a BS degree in Zoology from Colorado State University (2005). She has conducted biological surveys for universities in Oregon, Mississippi, and Kansas, and has recently started working as a consultant for energy industries in Wyoming and Montana. Her experience includes: productivity and occupation surveys for northern spotted owl (*Strix occidentalis caurina*), mist-netting passerine birds, wild bird rehabilitation, volunteer work with big game and chronic wasting disease, surveying for marsh and wetland birds, and vegetative surveys. In addition, she has extensive experience in environmental education, including time as a guide in Grand Teton and Yellowstone National Parks.

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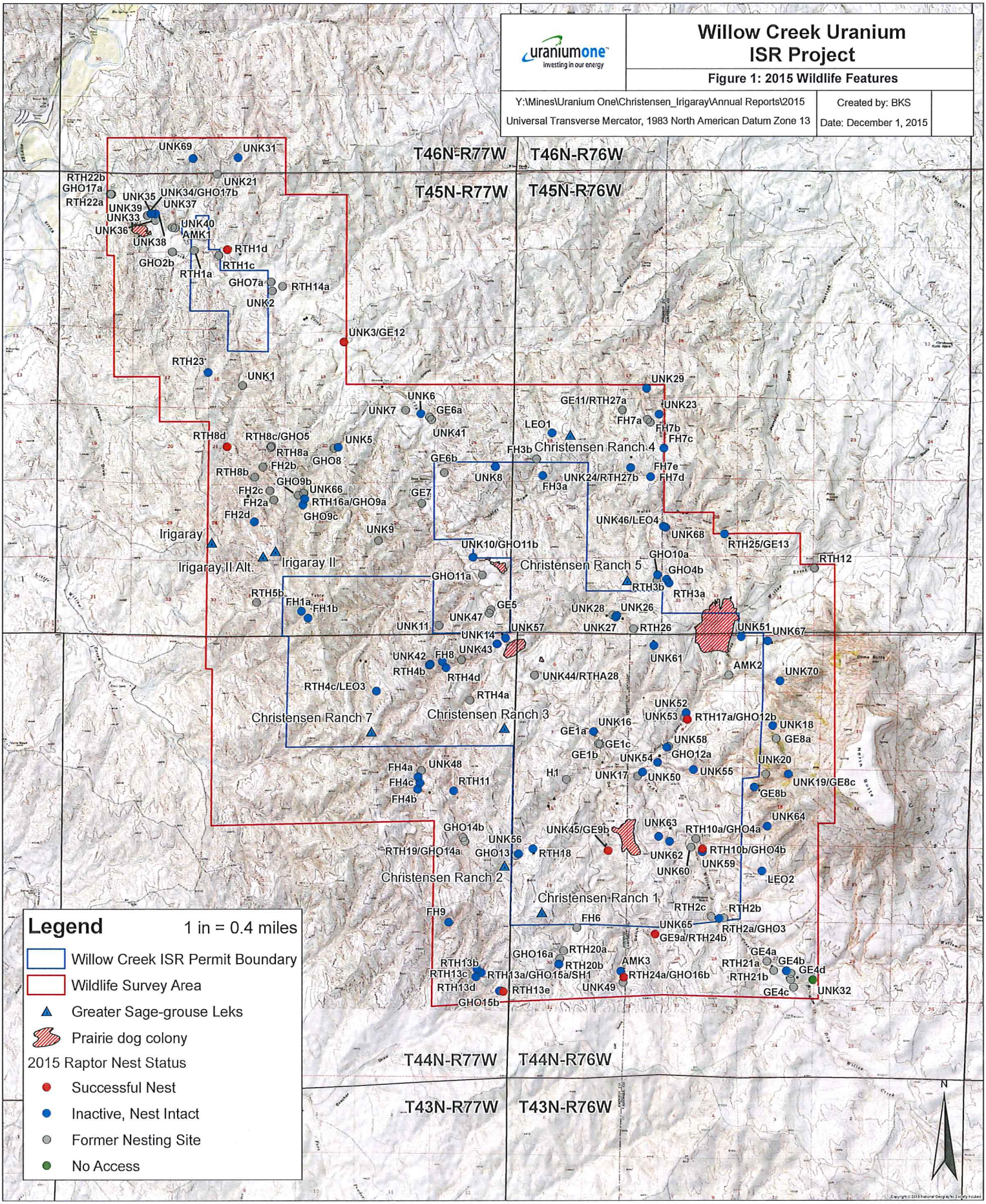
uraniumone
investing in our energy
Willow Creek Uranium
ISR Project
Figure 1: 2015 Wildlife Features
Y:\Mines\Uranium One\Christensen_Irigaray\Annual Reports\2015
Universal Transverse Mercator, 1983 North American Datum Zone 13
Created by: BKS
Date: December 1, 2015
T46N-R77W
T46N-R76W
T45N-R77W
T45N-R76W
T44N-R77W
T44N-R76W
T43N-R77W
T43N-R76W
Christensen Ranch 1
Christensen Ranch 2
Christensen Ranch 3
Christensen Ranch 4
Christensen Ranch 5
Christensen Ranch 7
Irigaray
Irigaray II
Irigaray II Alt.
Legend
1 in = 0.4 miles
Willow Creek ISR Permit Boundary
Wildlife Survey Area
Greater Sage-grouse Leks
Prairie dog colony
2015 Raptor Nest Status
Successful Nest
Inactive, Nest Intact
Former Nesting Site
No Access
N

Willow Creek Uranium ISR Project

Figure 1: 2015 Wildlife Features

Y:\Mines\Uranium One\Christensen_Irigaray\Annual Reports\2015

Universal Transverse Mercator, 1983 North American Datum Zone 13

Created by: BKS

Date: December 1, 2015

T46N-R77W
T46N-R76W
T45N-R77W
T45N-R76W
T44N-R77W
T44N-R76W
T43N-R77W
T43N-R76W

UNK69
UNK31
RTH22b
GHO17a
RTH22a
UNK21
UNK35
UNK34/GHO17b
UNK39
UNK37
UNK33
UNK36
UNK40
AMK1
UNK38
RTH1d
GHO2b
RTH1c
RTH1a
GHO7a
RTH14a
UNK2
UNK3/GE12
RTH23
UNK1
UNK6
UNK7
GE6a
UNK41
RTH8d
RTH8c/GHO5
UNK5
RTH8a
GHO8
FH2b
RTH8b
GHO9b
UNK66
FH2c
FH2a
RTH16a/GHO9a
FH2d
GHO9c
GE6b
UNK8
GE7
UNK9
Irigaray
Irigaray II Alt.
Irigaray II
UNK10/GHO11b
GHO11a
RTH5b
FH1a
FH1b
GE5
UNK47
UNK11
UNK57
UNK14
UNK42
FH8
UNK43
RTH4b
RTH4d
RTH4c/LEO3
RTH4a
Christensen Ranch 7
Christensen Ranch 3
FH4a
UNK48
FH4c
RTH11
FH4b
GHO14b
UNK56
RTH19/GHO14a
GHO13
RTH18
Christensen Ranch 2
FH9
UNK45/GE9b
UNK63
RTH10a/GHO4a
UNK62
RTH10b/GHO4b
UNK59
UNK60
LEO2
Christensen Ranch 1
FH6
RTH2c
RTH2b
UNK65
RTH2a/GHO3
GE9a/RTH24b
GHO16a
RTH20a
RTH20b
RTH13b
RTH13c
RTH13a/GHO15a/SH1
RTH13d
RTH13e
GHO15b
AMK3
RTH24a/GHO16b
UNK49
GE4a
RTH21a
GE4b
RTH21b
GE4d
GE4c
UNK32
UNK29
GE11/RTH27a
UNK23
FH7a
FH7b
LEO1
FH7c
FH3b
Christensen Ranch 4
FH7e
FH3a
UNK24/RTH27b
FH7d
UNK46/LEO4
UNK68
RTH25/GE13
RTH12
GHO10a
GHO4b
Christensen Ranch 5
RTH3b
RTH3a
UNK28
UNK26
UNK27
RTH26
UNK51
UNK67
UNK61
UNK44/RTHA28
AMK2
UNK70
UNK52
UNK53
RTH17a/GHO12b
UNK18
GE8a
UNK16
GE1a
GE1c
UNK58
GE1b
UNK54
GHO12a
UNK20
H1
UNK17
UNK50
UNK55
UNK19/GE8c
GE8b
UNK64
UNK63
UNK45/GE9b
RTH10a/GHO4a
RTH10b/GHO4b
UNK62
UNK59
UNK60
LEO2
RTH2c
RTH2b
UNK65
RTH2a/GHO3
GE9a/RTH24b
GE4a
RTH21a
GE4b
RTH21b
GE4d
GE4c
UNK32

Legend

1 in = 0.4 miles

- Willow Creek ISR Permit Boundary
- Wildlife Survey Area
- Greater Sage-grouse Leks
- Prairie dog colony

2015 Raptor Nest Status

- Successful Nest
- Inactive, Nest Intact
- Former Nesting Site
- No Access

N

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APPENDIX 6

RECURRING COST

Item	Amount ($)	Units	Cost Basis
ELECTRICAL			
Power Cost (actual costs)	$0.05040	kw/hr	*Current operating cost of electricity - Powder River Energy - Jan 2016*
LABOR RATES			
Supervisor	$25.00	Hour	*Operator Wage below + $5.00 referenced in WDEQ Guideline 12, Section I*
Plant Operator	$20.00	Hour	*Based on current average wage structure for Willow Creek Operators*
Plant Operator	$20.00	hour	*Based on current average wage structure for Willow Creek Operators*
Laborers (Group 1)	$15.93	hour	*From 2015 State Wages Department of Transportation Prevailing Wages.*
Laborers (Group 2)	$18.48	hour	*From 2015 State Wages Department of Transportation Prevailing Wages.*
ANALYTICAL			
Guideline 8	$390.00	batch	*Current rate used in worksheet 1*
TRANSPORTATION AND DISPOSAI			
Distance to Landfill	115	(miles)	*The distance from Christensen Ranch/Irigaray to Casper Landfill is ~115 miles*
Transportation Cost	$0.15	($/Ton-Mile)	*Estimate from trucking company (April 2016)*
Solid Waste landfill disposal cost .	$59.20	Ton	*Casper City landfill rates for outside of Natrona County commercial trailer over 8 feet in length.*
Quantity Per Truck Load	20	(Tons)	
Quantity Per Truck Load	28.0	(Yds^3)	
11e2 disposal cost	$175.00	cubic yard	*Average cost of graduated fee schedule for disposal of soils, sands, rubble etc., at NRC Licensed Facility (White Mesa) (April 2016)*
11e2 disposal cost	$6.11	cubic foot	*Average cost of graduated fee schedule for disposal of soils, sands, rubble etc., at NRC Licensed Facility (White Mesa) (April 2016)*
11e2 disposal cost	$6.48	cubic foot	*Average cost of graduated fee schedule for disposal of sludge, resin beads, filter media, etc., at NRC Licensed Facility (White Mesa) (August 2016)*
11e2 disposal cost	$174.96	cubic yard	*Average cost of graduated fee schedule for disposal of sludge, resin beads, filter media, etc., at NRC Licensed Facility (White Mesa) (August 2016)*
Onsite Disposal	$0.33	cubic foot	*WDEQ Guideline 12, Appendix K, Concrete Disposal On Site $8.25yd^3 = $0.31ft^3*
11e2 Transportation Cost Per Truck	$2,900.00		*Cost per load based on 2016 quote with trucking company*
VEHICLE OPERATION			
Pick up 4X4 (diesel)	$17.84	unit	*Cost per WDEQ Guideline 12 Table D-1*
PLANT DISMANTLING			
Concrete Floor Demolition	$0.80	square foot	*Costs per WDEQ Guideline 12, Appendix K*
Cost of Demolition Per Ft^3	$0.28	Cubic foot	*WDEQ Guideline 12, Appendix K*
PLANT/EQUIPMENT DECONTAMINATION AND DISPOSAL			
Decontamination	$0.13	square foot	*Based on actual costs*
Decontamination	$435.00	truck load	*Based on actual costs*
WELL PLUGGING AND ABANDONMENT			
Bentonite Chips	$4.70	50# bag	*Based on 2014 current costs from Casper Well Supply*
Cement Cones	$10.00	per hole	*Costs per WDEQ Guideline 12, App. L, Abandonment and Sealing of Drill and Monitor Wells*

EQUIPMENT				
	Dozer	$83.31	acre	*Cost per WDEQ Guideline 12, App M, rough grading/backfill*
	Backhoe Loader (Cat 430E 4WD)	$28.47	hour	*Cost per WDEQ Guideline 12, Table D-1*
	Loader (Cat 980H)	$101.32	hour	*Cost per WDEQ Guideline 12, Table D-1*
	Pick up 4X4 (gasoline)	$30.35	hour	*Cost per WDEQ Guideline 12, Table D-1*
	Hose Reel	$45.00	hour	*Costs for equipment from operating ISR facility*
CULVERT REMOVAL				
	20 foot culvert	$120.73		*Cost per WDEQ Guideline 12, Appendix J*
	per foot	$6.04	foot	
ELECTRICAL POWERLINES & TRANSFORMERS				
	Distribution/Transmission Lines	$0.00		*Tri-County Electric will remove at no cost, WDEQ Guideline 12, Appendix H*
	Transformers	$0.00		*Tri-County Electric will remove at no cost, WDEQ Guideline 12, Appendix H*
FENCING				
	Removal	$0.38	linear foot	*WDEQ Guideline 12, Appendix H*
RECLAMATION				
	Disking and Seeding	$280	acre	*Operator Experience based on Current Contractor Pricing*
	Top Soil Application	$0.870	cu/yd	*Cost per WDEQ Guideline 12A, II(A) Average travel distance of 1000 feet*
	Unit Cost - Haul/Place ($/Yd³)	$0.870	cu/yd	*Cost per WDEQ Guideline 12A, II(A) Average travel distance of 1000 feet*
	Unit Cost - Grading ($/Ac)	$82.31	acre	*Costs per WDEQ Guideline 12, Appendix M D9 dozer*

References

Guideline 12 Reclamation cost were updated using Feb. 2016 version

Uranium One USA, Inc.
SUMMARY OF RECLAMATION/RESTORATION SURETY ESTIMATE, June 30, 2015 - July 1, 2016
WDEQ PERMIT NO. 478/USNRC LICENSE SUA-1341
TABLE 1

	WDEQ Estimate	NRC Estimate
I GROUNDWATER RESTORATION - Worksheet 1:	$8,789,415	$9,050,475
Adjustment for Inflation = 18.2%		
(Sep. 2006 CPI All Urban Consumers, 202.9, to June 2016, 239.927)	$1,603,971	$1,651,611
Subtotal Groundwater Restoration	$10,393,386	$10,702,086
II DECOMMISSIONING AND SURFACE RECLAMATION:		
A. Process Plant(s) Equipment Removal and Disposal Worksheet 2	$213,812	$213,812
B. Plant Building(s) Demolition and Disposal Worksheet 3	$1,115,636	$1,115,636
C. Process Pond Sludge and Liner Handling Worksheet 4	$1,195,777	$1,195,777
D. Well Abandonment Worksheet 5	$871,027	$871,027
E. Wellfield Equipment Removal and Disposal Worksheet 6	$1,954,929	$1,954,929
F. Topsoil Replacement and Revegetation Worksheet 7	$1,175,506	$1,175,506
G. Miscellaneous Reclamation Activities Worksheet 8	$137,086	$137,086
Sub Total - Decommissioning and Surface Reclamation	$6,663,772	$6,663,772

			WDEQ Estimate	NRC Estimate
TOTAL RESTORATION AND RECLAMATION			$17,057,158	$17,365,858
	SUBTOTAL		$17,057,158	$17,365,858
Miscellaneous Costs Associated with Third Party Contractors	WDEQ	NRC		
Project Design	$250,000.00	15%		
Site Security & Liability Assurance	$250,000.00			
Contractor Profit & Mobilization	10%			
Pre-construction Investigation	1%			
Project Management	3%	10%		
On-site monitoring	0.5%			
Longterm Administration	2%			
Subtotal miscellaneous additions to surety	16.1%	25.0%	$3,246,202	$4,341,464.60
	SUBTOTAL		$20,303,360	$21,707,323
	WDEQ			
Contingency	4%		$812,134	$0
GRAND TOTAL RESTORATION AND RECLAMATION			**$21,115,495**	**$21,707,323**

Uranium One USA, Inc.
2015-2016 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

GROUNDWATER RESTORATION

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11
Technical Assumptions:											
Wellfield Area (Ft²)	522720	784080	890000	798944	510088	1210968	2021243	1180476	1750020	1337940	780591
Wellfield Area (Acres)	12.00	18.00	20.43	18.34	11.71	27.80	46.40	27.10	40.17	30.71	17.92
Affected Ore Zone Area (Ft²)	522720	784080	890000	798944	550193	1346004	2058344	1180476	1750020	1337940	0
Avg Completed Thickness (Ft)	15.0	18.0	11.0	10.0	12.7	19.9	21.8	18.0	20.0	20.0	20.0
Affected Volume:											
Factor For Vertical Flare	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Factor For Horizontal Flare	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Total Volume (Ft³)	11290752	20323353.6	14097600	11504793.6	10061929.6	38593685.7	64615534.8	30597937.92	50400576	38532672	0
Porosity	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%
Gallons Per Cubic Foot	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48
Gallons Per Pore Volume	21958254.5	39524858.1	27417012.5	22374522.6	19568440.7	75057000	125664292	59506869.67	98019040.2	74938340.51	0
Number of Wells in Unit(s)											
Production Wells	150	274	91	176	81	134	178	167	264	261	0
Injection Wells	310	330	195	267	130	188	202	389	516	473	0
Monitor Wells	150	165	50	47	33	72	64	66	76	83	44
Baseline Water Quality wells (prod or inj)	19	27	24	19	15	25	47	11	14	10	6
Average Well Spacing (Ft)	35	35	85	70	85	85	100	70	60	60	60
Average Well Depth (Ft)	250	250	345	300	430	450	520	550	375	500	500
I GROUNDWATER SWEEP											
A. PLANT & OFFICE											
Operating Assumptions:											
Flowrate (gpm)			200	200	200	200	200	200	200	200	200
PV's Required			1	1	1	1	1	1	1	1	1
Total Gallons For Treatment			27417012.5	22374522.6	19568440.7	75057000	125664292	59506869.67	98019040.2	74938340.51	0
Total KGals for Treatment			27417	22375	19568	75057	125664	59507	98019	74938	0
Cost Assumptions:											
Power											
Avg Connected Hp			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Kwh's/Hp			0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
$/Kwh			$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504
Gallons Per Minute			200	200	200	200	100	100	100	100	100
Gallons Per Hour			12000	12000	12000	12000	6000	6000	6000	6000	6000
Cost Per Hour			1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67
Cost Per Gallon			0.00014	0.00014	0.00014	0.00014	0.00028	0.00028	0.00028	0.00028	0.00028
Cost Per KGal ($)			$0.139	$0.139	$0.139	$0.139	$0.279	$0.279	$0.279	$0.279	$0.279
Chemicals											
Antiscalent ($/Kgals)			$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947
Elution ($/KGals)			$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099
Repair & Maintenance ($/KGals)			$0.0379	$0.0379	$0.0379	$0.0379	$0.0379	$0.0379	$0.0379	$0.0379	$0.0379
Analysis ($/KGals)			$0.131	$0.127	$0.115	$0.050	$0.056	$0.028	$0.021	$0.020	$0.000
Total Cost Per KGal			$0.502	$0.498	$0.486	$0.421	$0.567	$0.538	$0.532	$0.530	$0.510
Total Treatment Cost			$13,773	$11,152	$9,511	$31,599	$71,199	$32,027	$52,137	$39,755	$0
Utilities											
Power ($/Month)			$65	$65	$65	$65	$65	$65	$65	$65	$65
Telephone ($/Month			$500	$500	$500	$500	$500	$500	$500	$500	$500
Time For Treatment											
Minutes For Treatment			137085	111873	97842	375285	628321	0	0	0	0
Hours For Treatment			2285	1865	1631	6255	10472	0	0	0	0
Days For Treatment			95	78	68	261	436	0	0	0	0
Average Days Per Month			30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
Months For Treatment			3.1	2.6	2.2	8.6	14.3	0.0	0.0	0.0	0.0
Utilities Cost ($)			$1,768	$1,443	$1,262	$4,841	$8,105	$0	$0	$0	$0
TOTAL PLANT & OFFICE COST	$0	$0	$15,541	$12,595	$10,773	$36,440	$79,304	$32,027	$52,137	$39,755	$0
I GROUNDWATER SWEEP (Continued)											
B. WELLFIELD											
Cost Assumptions:											
Power											
Avg Flow/Pump (gpm)			20	20	20	20	20	20	20	20	20
Avg Hp/Pump			3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Avg # of Pumps Required			10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Avg Connected Hp			30	30	30	30	30	30	30	30	30
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
$/Kwh			$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504

Uranium One USA, Inc.
2015-2016 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

GROUNDWATER RESTORATION	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11
Gallons Per Minute			200	200	200	200	200	200	200	200	200
Gallons Per Hour			12000	12000	12000	12000	12000	12000	12000	12000	12000
Cost Per Hour ($)			$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25
Guideline 12 costs Cost Per Gallon ($)			$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001
Cost Per KGal ($)			0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
Repair & Maintenance ($/KGals)			$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289
Total Cost Per KGal			$0.394	$0.394	$0.394	$0.394	$0.394	$0.394	$0.394	$0.394	$0.394
TOTAL WELLFIELD COST	$0	$0	$10,802	$8,815	$7,710	$29,571	$49,509	$23,445	$38,618	$29,524	$0
TOTAL GROUND WATER SWEEP COST	$0	$0	$26,343	$21,410	$18,482	$66,011	$128,813	$55,472	$90,754	$69,279	$0
II REVERSE OSMOSIS											
A. PLANT & OFFICE											
Operating Assumptions:											
Flowrate (gpm)			500	500	500	500	500	500	500	500	500
PV's Required			5.0	5.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0
Total Gallons For Treatment			137085062	111872613	97842203.3	375285000	628321461	595068696.7	980190402	749383405.1	0
Total KGals for Treatment			137085	111873	97842	375285	628321	595069	980190	749383	0
Feed to RO (gpm)			500	500	500	500	500	500	500	500	500
Permeate Flow (gpm)			375	375	375	375	375	375	375	375	375
Brine Flow (gpm)			125	125	125	125	125	125	125	125	125
Average RO Recovery			75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%
Cost Assumptions:											
Power											
Avg Connected Hp			560.00	560.00	560.00	560.00	560.00	560.00	560.00	560.00	560.00
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
$/Kwh			$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504
Gallons Per Minute			500	500	500	500	500	500	500	500	500
Gallons Per Hour			30000	30000	30000	30000	30000	30000	30000	30000	30000
Cost Per Hour ($)			$23.43	$23.43	$23.43	$23.43	$23.43	$23.43	$23.43	$23.43	$23.43
Cost Per Gallon ($)			$0.00078	$0.00078	$0.00078	$0.00078	$0.00078	$0.00078	$0.00078	$0.00078	$0.00078
Cost Per KGal ($)			$0.781	$0.781	$0.781	$0.781	$0.781	$0.781	$0.781	$0.781	$0.781
Chemicals											
Caustic Soda ($/KGals)			$0.018	$0.018	$0.018	$0.018	$0.018	$0.018	$0.018	$0.018	$0.018
Antiscalent ($/Kgals)			$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947
Elution ($/Kgals)			$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099
Repair & Maintenance ($/KGals)			$0.038	$0.038	$0.038	$0.038	$0.038	$0.038	$0.038	$0.038	$0.038
Sampling & Analysis ($/KGals)			$0.090	$0.122	$0.092	$0.039	$0.032	$0.054	$0.034	$0.042	
Total Cost Per KGal ($)			$1.121	$1.152	$1.122	$1.069	$1.062	$1.085	$1.064	$1.073	
Total Pumping Cost ($)	$0	$0	$153,611	$128,881	$109,823	$401,218	$667,263	$645,387	$1,043,411	$804,013	
Utilities											
Power ($/Month)			$65	$65	$65	$65	$65	$65	$65	$65	$65
Propane ($/Month			$500	$500	$500	$500	$500	$500	$500	$500	$500
Time For Treatment											
Minutes For Treatment			274170	223745	195684	750570	1256643	1190137	1960381	1498767	0
Hours For Treatment			4570	3729	3261	12510	20944	19836	32673	24979	0
Days For Treatment			190	155	136	521	873	826	1361	1041	0
Average Days Per Month			30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
Months For Treatment			6.3	5.1	4.5	17.1	28.7	27.2	44.8	34.2	0.0
Utilities Cost ($)	$0	$0	$3,560	$2,882	$2,543	$9,662	$16,216	$15,368	$25,312	$19,323	$0
TOTAL PLANT & OFFICE COST	$0	$0	$157,171	$131,762	$112,365	$410,879	$683,478	$660,755	$1,068,723	$823,336	$0
II REVERSE OSMOSIS (Continued)											
B. WELLFIELD											
Cost Assumptions:											
Power											
Avg Flow/Pump (gpm)			20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Avg Hp/Pump			3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Avg # of Pumps Required			25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Avg Connected Hp			75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
$/Kwh			$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504
Gallons Per Minute			500	500	500	500	500	500	500	500	500
Gallons Per Hour			30000	30000	30000	30000	30000	30000	30000	30000	30000
Cost Per Hour ($)			$3.14	$3.14	$3.14	$3.14	$3.14	$3.14	$3.14	$3.14	$3.14
Cost Per Gallon ($)			$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001
Cost Per KGal ($)			$0.105	$0.105	$0.105	$0.105	$0.105	$0.105	$0.105	$0.105	$0.105
Repair & Maintenance ($/KGals)			$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289

Uranium One USA, Inc.
2015-2016 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

GROUNDWATER RESTORATION	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11
Total Cost Per KGal			$0.394	$0.394	$0.394	$0.394	$0.394	$0.394	$0.394	$0.394	$0.394
TOTAL WELLFIELD COST	$0	$0	$53,954	$44,031	$38,509	$147,705	$247,295	$234,207	$385,783	$294,942	$0
Circulate 1 PV of Hydrogen Sulfide gas reductant $0.863 per Kgal			$23,661	$19,309	$16,888	$64,774	$108,448	$51,354	$84,590	$64,672	$0
TOTAL REVERSE OSMOSIS COST	$0	$0	$234,786	$195,102	$167,762	$623,358	$1,039,221	$946,316	$1,539,097	$1,182,950	$0
III WASTE DISPOSAL WELL											
Operating Assumptions:											
Annual Evaporation Capacity (Gals)			1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612
Avg. Monthly Evap. Capacity (Gals)			159,801	159,801	159,801	159,801	159,801	159,801	159,801	159,801	159,801
Total Disposal Requirement											
RO Brine Total Gallons			34,271,266	27,968,153	24,460,551	93,821,250	157,080,365	148,767,174	245,047,601	187,345,851	0
RO Brine Total KGallons			34,271	27,968	24,461	93,821	157,080	148,767	245,048	187,346	0
Brine Concentration Factor			60%	60%	60%	60%	60%	60%	60%	60%	60%
Total Concentrated Brine (Gals)			20,562,759	16,780,892	14,676,330	56,292,750	94,248,219	89,260,305	147,028,560	112,407,511	0
Months of RO Operation			6.3	5.1	4.5	17.1	28.7	27.2	44.8	34.2	0.0
Average Monthly Reqm't (Gallons)			3,263,930	3,290,371	3,261,407	3,291,974	3,283,910	3,281,629	3,281,888	3,286,769	
Monthly Balance for DDW (Gals)			3,104,129	3,130,570	3,101,606	3,132,173	3,124,109	3,121,828	3,122,087	3,126,968	
Total WDW Disposal (Gallons)			19,556,013	15,965,907	13,957,226	53,560,153	89,661,930	84,913,717	139,869,476	106,942,317	
Total WDW Disposal (KGals)			19,556	15,966	13,957	53,560	89,662	84,914	139,869	106,942	
Cost Assumptions:											
Power											
Avg Connected Hp			100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
WDW Avg Connected Hp			180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
$/Kwh			$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504
Gallons Per Minute			150	150	150	150	150	150	150	150	150
Gallons Per Hour			9000	9000	9000	9000	9000	9000	9000	9000	9000
Cost Per Hour ($)			$11.71	$11.71	$11.71	$11.71	$11.71	$11.71	$11.71	$11.71	$11.71
Cost Per Gallon ($)			$0.0013	$0.0013	$0.0013	$0.0013	$0.0013	$0.0013	$0.0013	$0.0013	$0.0013
Cost Per KGal ($)			$1.301	$1.301	$1.301	$1.301	$1.301	$1.301	$1.301	$1.301	$1.301
Chemicals ($/Kgals)											
RO Antiscalent ($/Kgals)			$0.190	$0.190	$0.190	$0.190	$0.190	$0.190	$0.190	$0.190	$0.190
WDW Antiscalent ($/Kgals)			$0.237	$0.237	$0.237	$0.237	$0.237	$0.237	$0.237	$0.237	$0.237
Sulfuric Acid ($/Kgals)			$0.534	$0.534	$0.534	$0.534	$0.534	$0.534	$0.534	$0.534	$0.534
Corrosion Inhibitor			$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Algacide			$0.111	$0.111	$0.111	$0.111	$0.111	$0.111	$0.111	$0.111	$0.111
Repair & Maint ($/Kgals)			$0.077	$0.077	$0.077	$0.077	$0.077	$0.077	$0.077	$0.077	$0.077
Total Cost Per KGal			$2.450	$2.450	$2.450	$2.450	$2.450	$2.450	$2.450	$2.450	$2.450
TOTAL WASTE DISPOSAL WELL COST			$47,921	$39,123	$34,201	$131,246	$219,711	$208,076	$342,742	$262,056	$0
IV STABILIZATION MONITORING											
Operating Assumptions:											
Time of Stabilization (mos)			12	12	12	12	12	12	12	12	9
Frequency of Analysis (mos)			3	3	3	3	3	3	3	3	3
Total Sets of Analysis			4	4	4	4	4	4	4	4	4
Cost Assumptions:											
Generator Rental per sample set			$280	$280	$280	$280	$280	$280	$280	$280	$280
Analytical costs per set			$9,360	$7,410	$5,850	$9,750	$18,330	$4,290	$5,460	$3,900	$2,340
Total Sampling & Analysis Cost ($)			$38,560	$30,760	$24,520	$40,120	$74,440	$18,280	$22,960	$16,720	$10,480
Utilities (Power + Telephone per month)			$565	$565	$565	$565	$565	$565	$565	$565	$565
Total Utilities Cost ($)			$6,780	$6,780	$6,780	$6,780	$6,780	$6,780	$6,780	$6,780	$5,085
TOTAL STABILIZATION COST	$0	$0	$45,340	$37,540	$31,300	$46,900	$81,220	$25,060	$29,740	$23,500	$0

V LABOR (Irigaray and Christensen Combined)			
Cost Assumptions	Cost/Hour	Hours/Year	Cost
Crew:			
1 Supervisor	$25.00	2080	$52,000
4 Operators	$20.00	2080	$166,400
2 Maintenance	$20.00	2080	$83,200
2 Vehicles	$24.10	2080	$100,235
1 MIT Vehicle & Equip	$21.00	2080	$43,680
Cost per Year			$445,515
Time Required - Years	2.0		
TOTAL RESTORATION LABOR COST	$891,030		

Uranium One USA, Inc.
2015-2016 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

GROUNDWATER RESTORATION

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11
	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Unit #2 Thru #4	Total Christensen & Irigaray								
VI RESTORATION CAPITAL REQUIREMENTS											
I Deep Disposal Well(s) - new		$0									
II Plug and Abandon CR DW-1		$73,950									
III Plug and Abandon CR 18-3		$66,250									
IV 500 GPM Reverse Osmosis Unit		$0									
WDEQ-WQD 3% Annual Adjustment		$8,412									
Total	$0	$148,612									

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	TOTAL
SUMMARY:												
I GROUNDWATER SWEEP	$0	$0	$26,343	$21,410	$18,482	$66,011	$128,813	$55,472	$90,754	$69,279	$0	
II REVERSE OSMOSIS	$0	$0	$234,786	$195,102	$167,762	$623,358	$1,039,221	$946,316	$1,539,097	$1,182,950	$0	
III WASTE DISPOSAL WELL	$0	$0	$47,921	$39,123	$34,201	$131,246	$219,711	$208,076	$342,742	$262,056	$0	
IV STABILIZATION	$0	$0	$45,340	$37,540	$31,300	$46,900	$81,220	$25,060	$29,740	$23,500	$0	
SUB TOTAL	$0	$0	$354,389	$293,176	$251,745	$867,515	$1,468,966	$1,234,924	$2,002,333	$1,537,784	$0	$8,010,832
V LABOR												$891,030
VI CAPITAL												$148,612
TOTAL GROUNDWATER RESTORATION COST												**$9,050,475**
Credit for Completion of Groundwater Sweep (WDEQ)			$26,343	$21,410	$18,482	$66,011	$128,813	$0	$0	$0	$0	$261,060
Credit for Completion of Reverse Osmosis (WDEQ)												$0
Credit Completion of Stabilization Monitoring (WDEQ)												$0
Credit Subtotal			$26,343	$21,410	$18,482	$66,011	$128,813	$0	$0	$0	$0	**$261,060**
GRAND TOTAL WDEQ	$0	$0	$328,046	$271,766	$233,263	$801,504	$1,340,152	$1,234,924	$2,002,333	$1,537,784	$0	**$8,789,415**
GRAND TOTAL NRC (no credit)	$0	$0	$354,389	$293,176	$251,745	$867,515	$1,468,966	$1,234,924	$2,002,333	$1,537,784	$0	**$9,050,475**

Uranium One USA, Inc.
2015-2016 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 2

PLANT EQUIPMENT REMOVAL AND DISPOSAL	Irigaray							Christensen				
	Maint Area & Laboratory	Main Process Building	Expansion Building	Resin +Sand Filter Media	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Resin + Sand Filter Media	Restoration Extension	Wellfield Modules	Sub Total
Volume (Yds³)	40	0	188	110	40	0		116	215.6	42	97.5	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20		20	20	20	20	
Number of Truck Loads	2.0	0.0	9.4	5.5	2.0	0.0		5.80	10.8	2.1	4.9	
I Decontamination Cost												
Decontamination Cost ($/Load)	$435	$435	$435	$435	$435	$435		$435	$435	$435	$435	
Percent Requiring Decontamination	20.0%	100.0%	100.0%	0.0%	100.0%	100.0%		100.0%	0.0%	100.0%	100.0%	
Total Cost	$174	$0	$4,089	$0	$870	$0	$5,133	$2,523	$0	$914	$2,121	$5,557
II Dismantle and Loading Cost												
Cost Per Truck Load ($)	$650	$650	$650	$650	$650	$650		$650	$650	$650	$650	
Total Cost	$1,300	$0	$6,110	$3,575	$1,300	$0	$12,285	$3,770	$7,007	$1,365	$3,169	$15,311
III Oversize Charges												
Percent Requiring Permits	40.0%	40.0%	40.0%	0.0%	60.0%	40.0%		40.0%	0.0%	40.0%	0.0%	
Cost Per Truck Load ($)	$326	$326	$326	$326	$326	$326		$326	$326	$326	$326	
Total Cost	$261	$0	$1,226	$0	$391	$0	$1,878	$756	$0	$274	$0	$1,030
IV Transportation & Disposal												
A. Landfill												
Percent To Be Shipped	80.0%	80.0%	80.0%	0.0%	50.0%	80.0%		80.0%	0.0%	80.0%	80.0%	
Transportation Cost Per Truck Load	$345	$345	$345	$345	$345	$345		$345	$345	$345	$345	
Transportation Cost	$552	$0	$2,594	$0	$345	$0		$1,601	$0	$580	$1,346	
Disposal Fee Per Ton (1 yd^3 = 1 ton)	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20		$59.20	$59.20	$59.20	$59.20	
Disposal Cost ($)	$1,894	$0	$8,904	$0	$1,184	$0		$5,494	$0	$1,989	$4,618	
Total Cost	$2,446	$0	$11,498	$0	$1,529	$0		$7,095	$0	$2,569	$5,963	
B. Licensed Site												
Percent To Be Shipped	20.0%	20.0%	20.0%	100.0%	50.0%	20.0%		20.0%	100.0%	20.0%	20.0%	
Transportation Cost Per Truck Load	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900		$2,900	$2,900	$2,900	$2,900	
Transportation Cost	$1,160	$0	$5,452	$15,950	$2,900	$0		$3,364	$31,262	$1,218	$2,828	
Disposal Cost Per Cubic Foot ($)	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48		$6.48	$6.48	$6.48	$6.48	
Quantity Per Truck Load (Yds³)	20.0	20.0	20.0	20.0	20.0	20.0		20.0	20.0	20.0	20.0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540		540	540	540	540	
Disposal Cost	$1,400	$0	$6,578	$19,246	$3,499	$0		$4,059	$37,721	$1,470	$3,412	
Total Cost Licensed Site	$2,560	$0	$12,030	$35,196	$6,399	$0		$7,423	$68,983	$2,688	$6,239	
Total Cost Transportation & Disposal	$5,006	$0	$23,529	$35,196	$7,928	$0	$71,658	$14,518	$68,983	$5,256	$12,202	$100,960
TOTAL COST	$6,741	$0	$34,953	$38,771	$10,489	$0	$90,954	$21,567	$75,990	$7,809	$17,492	$122,858
TOTAL COST - IRIGARAY AND CHRISTENSEN												$213,812

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	Irigaray							Christensen								
	Maint Area & Laboratory	Warehouse & Offices	Main Process Building	Expansion Building	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Wellfield Modules	Booster Pump Bldgs.	Restoration Extension	Office Building	Warehouse	Misc Buildings	Sub Total
BUILDING DEMOLITION AND DISPOSAL															
Structural Character	1 Story Steel Frame	1 Story Steel Frame	1 Story Steel Frame	1 Story Steel Frame	3 Story Steel/Masonry	1 Story Steel Frame		2 Story Steel Frame	1 Story Pre Fab (39)	1 Story Pre Fab (5)	2 Story Steel Frame	1 Story Pre-Fab	1 Story Steel Frame	1 Story Steel Frame (5)	
Demolition Volume (Ft^3)	179400	108720	430400	386400	126000	69640		192000	168480	75920	104800	64800	11000	115800	
Cost of Demolition Per Ft^3	$0.2800	$0.2800	$0.2800	$0.2800	$0.2800	$0.2800		$0.2800	$0.2800	$0.2800	$0.2800	$0.2800	$0.2800	$0.2800	
Demolition Cost ($)	$50,232	$30,442	$120,512	$108,192	$35,280	$19,499	$364,157	$53,760	$47,174	$21,258	$29,344	$18,144	$3,080	$32,424	$172,760
Factor For Gutting	15.0%	10.0%	30.0%	10.0%	20.0%	10.0%		20.0%	0.0%	0.0%	20.0%	10.0%	10.0%	10.0%	
Cost For Gutting ($)	$7,535	$3,044	$36,154	$10,819	$7,056	$1,950	$66,558	$10,752	$0	$0	$5,869	$1,814	$308	$3,242	$18,743
Weight (pounds)	158761	96212	380885	341947	111504	61628		169912	66660	28032	63717	38802	9735	80640	
Weight per Truckload (Tons)	20	20	20	20	20	20		20	20	20	20	20	20	20	
Number of Truckloads	4.0	2.4	9.5	8.5	2.8	1.5		4.2	1.7	0.7	1.6	1.0	0.2	2.0	
Distance to Landfill	115	115	115	115	115	115		115	115	115	115	115	115	115	
Unit Cost (Ton/Mile)	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15		$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	
Transportation Cost per Truckload	$345	$345	$345	$345	$345	$345		$345	$345	$345	$345	$345	$345	$345	
Transportation Cost ($)	$1,369	$830	$3,285	$2,949	$962	$532	$9,927	$1,465	$575	$242	$550	$335	$84	$696	$3,250
Disposal Cost per Truckload	$1,184.00	$1,184.00	$1,184.00	$1,184.00	$1,184.00	$1,184.00		$1,184.00	$1,184.00	$1,184.00	$1,184.00	$1,184.00	$1,184.00	$1,170.00	
Disposal Cost ($)	$4,699	$2,848	$11,274	$10,122	$3,301	$1,824	$34,068	$5,029	$1,973	$830	$1,886	$1,149	$288	$2,359	$11,155
TOTAL COST	$63,835	$37,163	$171,225	$132,082	$46,598	$23,805	$474,709	$71,007	$49,722	$22,329	$37,648	$21,442	$3,760	$38,721	$205,909
TOTAL COST IRIGARAY AND CHRISTENSEN															$680,618
CONCRETE DECONTAMINATION, DEMOLITION & DISPOSAL															
Area (Ft^2)	8020	7100	17600	18400	5600	3600		9600	0	1800	5240	0	1000	6240	
Average Thickness (Ft)	0.5	0.5	0.5	0.5	1	0.5		0.5	0.0	0.5	0.5	0.0	0.5	0.5	
Volume (Ft^3)	4010	3550	8800	9200	5600	1800		4800	0	900	2620	0	500	3120	
Percent Requiring Decontamination	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%		100.0%	0.0%	100.0%	100.0%	0.0%	0.0%	0.0%	
Percent Decontaminated	0.0%	0.0%	75.0%	75.0%	40.0%	75.0%		75.0%	0.0%	100.0%	100.0%	0.0%	0.0%	0.0%	
Decontamination ($/$Ft^2$)	$0.134	$0.134	$0.134	$0.134	$0.134	$0.134		$0.134	$0.134	$0.134	$0.134	$0.134	$0.134	$0.134	
Decontamination Cost	$0	$0	$1,769	$1,849	$300	$362	$4,280	$965	$0	$241	$702	$0	$0	$0	$1,908
Demolition ($/$Ft^2$)	$0.80	$0.80	$0.80	$0.80	$0.80	$0.80		$0.80	$0.80	$0.80	$0.80	$0.80	$0.80	$0.80	
Demolition Cost	$6,416	$5,680	$14,080	$14,720	$4,480	$2,880	$48,256	$7,680	$0	$1,440	$4,192	$0	$800	$4,992	$14,112
Transportation & Disposal															
A. Onsite Disposal															
Percent to be Disposed Onsite	100%	100%	90%	90%	40%	90%		90%	0%	100%	100%	0%	100%	100%	
Transportation Cost	$0	$0	$0	$0	$0	$0		$0	$0	$0	$0	$0	$0	$0	
Disposal Cost per Cubic Foot	$0.330	$0.330	$0.330	$0.330	$0.330	$0.330		$0.330	$0.330	$0.330	$0.330	$0.330	$0.330	$0.330	
Disposal Cost ($)	$1,323	$1,172	$2,614	$2,732	$739	$535	$9,115	$1,426	$0	$297	$865	$0	$165	$1,030	$2,752
B. Licensed Site															
Percent to be Shipped	0%	0%	10%	10%	60%	10%		10%	100%	0%	0%	100%	0%	0%	
Transportation Cost per Truckload	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$0	$0	$4,726	$4,941	$18,044	$967	$28,678	$2,578	$0	$0	$0	$0	$0	$0	$2,578
Disposal Cost per Cubic Foot	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11		$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	
Quantity Per Truck Load (Yds^3)	20	20	20	20	20	20		20	20	20	20	20	20	20	
Quantity Per Truck Load (Ft^3)	540	540	540	540	540	540		540	540	540	540	540	540	540	
Disposal Cost ($)	$0	$0	$5,377	$5,621	$20,530	$1,100	$32,627	$2,933	$0	$0	$0	$0	$0	$0	$2,933
TOTAL COST	$7,739	$6,852	$28,565	$29,864	$44,093	$5,843	$122,956	$15,581	$0	$1,978	$5,759	$0	$965	$6,022	$24,283
TOTAL COST IRIGARAY AND CHRISTENSEN															$147,239
SOIL REMOVAL & DISPOSAL															
Assume removal of 3" of Contaminated Soil under Primary Areas, Disposal at a Licensed facility.															
Removal with Loader ($116/hr) $101	$0	$0	$1,651	$1,726	$525	$338	$4,240	$901	$0	$0	$492	$0	$0	$0	$1,392
Quantity to be Shipped (Ft^3)	0	0	4400	4600	1400	900		2400	0	0	1310	0	0	0	
Transportation Cost per Truckload	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$0	$0	$23,630	$24,704	$7,519	$4,833	$60,685	$12,889	$0	$0	$7,035	$0	$0	$0	$19,924
Disposal fee Per Cubic Foot($)	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11		$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	
Quantity per Truckload (Ft^3)	540	540	540	540	540	540		540	540	540	540	540	540	540	
Disposal Cost ($)	$0	$0	$26,884	$28,106	$8,554	$5,499	$69,043	$14,664	$0	$0	$8,004	$0	$0	$0	$22,668
Removal, NPDES Pts.															
Quantity to be Shipped (Ft^3)			559					5,030							
Transportation Cost per Truckload	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	

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	Irigaray							Christensen							
	Maint Area & Laboratory	Warehouse & Offices	Main Process Building	Expansion Building	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Wellfield Modules	Booster Pump Bldgs.	Restoration Extension	Office Building	Warehouse	Misc Buildings	Sub Total
Transportation Cost ($)	$0	$0	$3,002	$0	$0	$0	$3,002	$27,014	$0	$0	$0	$0	$0	$0	$27,014
Guideline Disposal fee Per Cubic Foot($)	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11		$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	
Quantity per Truckload (Ft^3)	540	540	540	540	540	540		540	540	540	540	540	540	540	
Disposal Cost ($)	$0	$0	$3,415	$0	$0	$0	$3,415	$30,734	$0	$0	$0	$0	$0	$0	$30,734
Total Cost	$0	$0	$58,581	$54,536	$16,598	$10,670	$140,385	$86,201	$0	$0	$15,531	$0	$0	$0	$101,732
TOTAL COST	$0	$0	$58,581	$54,536	$16,598	$10,670	$140,385	$86,201	$0	$0	$15,531	$0	$0	$0	$101,732
TOTAL COST IRIGARAY AND CHRISTENSEN															$242,117

RADIATION SURVEY															
Area required (acres)	0.18	0.16	0.40	0.42	0.13	0.08		0.22	0.00	0.04	0.12	0.00	0.02	0.14	
Survey Cost ($/acre)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00		$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
TOTAL SURVEY COST ($)	$96		$210	$220	$67	$43	$636	$115	$0	$21	$63	$0	$12	$74	$211

TOTAL COST	$71,671	$44,015	$258,581	$216,702	$107,357	$40,361	$738,686	$172,904	$49,722	$24,328	$59,001	$21,442	$4,737	$44,816	$376,951
TOTAL COST IRIGARAY AND CHRISTENSEN															$1,115,636

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POND RECLAMATION COST	Irigaray							Christensen					
	Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB	Brine Pond 1	Brine Pond 2	Brine Pond 3	Brine Pond 4	Permeate Pond	
POND SLUDGE:													
Average Sludge Depth (Ft)		0.156		0.156		0.156	0.156	0.166	0.222	0.143	0.068	0.000	
Average Area of Sludge (Ft^2)		50,604		50,604		64,299	64,299	20,909	20,909	20,909	20,909	-	
Volume of Sludge (Ft^3)		7,907		7,907		10,047	10,047	3,466	4,651	2,983	1,414	-	
Volume of Sludge (Yds^3)		293		293		372	372	128	172	110	52	0	
Volume of Sludge Per Truck Load (Yds^3)		25.0		25.0		25.0	25.0	25.0	25.0	25.0	25.0	25.0	
# of Truck Loads of Sludge		11.7		11.7		14.9	14.9	5.1	6.9	4.4	2.1	0.0	
Sludge Handling Cost Per Load ($)		$240.00		$240.00		$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	
Total Sludge Handling Cost ($)	$0	$2,808	$0	$2,808	$0	$3,576	$3,576	$1,224	$1,656	$1,056	$504	$0	
Transportation & Disposal													
Percent To Be Shipped to Licensed Site		100.0%		100.0%		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Transportation Cost per Truckload		$2,900		$2,900		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)		$33,930		$33,930		$43,210	$43,210	$14,790	$20,010	$12,760	$6,090	$0	
Disposal Cost Per Cubic Foot ($)		$6.11		$6.11		$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	$6.48	
Quantity Per Truck Load (Yds^3)		20.0		20.0		20.0	20.0	20.0	20.0	20.0	20.0	20.0	
Quantity Per Truck Load (Ft^3)		540		540		540	540	540	540	540	540	540	
Disposal Cost ($)		$38,603		$38,603		$49,161	$49,161	$16,827	$22,766	$14,517	$6,929	$0	
Total Transportation & Disposal ($)	$0	$72,533	$0	$72,533	$0	$92,371	$92,371	$31,617	$42,776	$27,277	$13,019	$0	
TOTAL SLUDGE COST ($)	$0	$75,341	$0	$75,341	$0	$95,947	$95,947	$32,841	$44,432	$28,333	$13,523	$0	$461,705
POND LINER:													
Total Pond Area (Acres)		1.72		1.72		2.17	2.17	1.10	1.10	1.10	1.10	0.00	
Total Pond Area (Ft^2)		74923.2		74923.2		94525.2	94525.2	47916	47916	47916	47916	0	
Factor For Sloping Sides		20.0%		20.0%		20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	0.0%	
Total Liner Area (Ft^2)		89908		89908		113430	113430	68660	57499	57499	57499	0	
Liner Thickness (Mil)		30		180		180	30	180	30	30	30	0	
Liner Thickness (Inches)		0.0300		0.1800		0.1800	0.0300	0.1800	0.0300	0.0300	0.0300	0	
Liner Thickness (Ft)		0.0025		0.0150		0.0150	0.0025	0.0150	0.0025	0.0025	0.0025	0	
"Swell" Factor		25.0%		25.0%		25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	0.0%	
Liner Volume (Ft^3)		281		1686		2127	354	1287	180	180	180	0	
Truck Loads of Liner		0.5		3.1		3.9	0.7	2.4	0.3	0.3	0.3	0.0	
Liner Handling Cost ($)													
Labor Crew Cost per Hour ($)		$146		$146		$146	$146	$146	$146	$146	$146	$0	
Hours per Load		2.0		2.0		2.0	2.0	2.0	2.0	2.0	2.0	0.0	
Liner Handling Cost Per Load ($)		$292.64		$292.64		$292.64	$292.64	$292.64	$292.64	$292.64	$292.64	$0.00	
Total Liner Handling Cost ($)	$0	$146	$0	$907	$0	$1,141	$205	$702	$88	$88	$88	$0	
Transportation & Disposal													
Percent To Be Shipped to Licensed Site		100.0%		100.0%		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Transportation Cost per Truckload		$2,900		$2,900		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)		$1,450		$8,990		$11,310	$2,030	$6,960	$870	$870	$870	$0	
Disposal Cost Per Cubic Foot ($)		$6.48		$6.48		$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	
Quantity Per Truck Load (Ft^3)		540		540		540	540	540	540	540	540	540	
Disposal Cost ($)		$1,750		$10,848		$13,647	$2,449	$8,398	$1,050	$1,050	$1,050	$0	
Total Transportation & Disposal ($)	$0	$3,200	$0	$19,838	$0	$24,957	$4,479	$15,358	$1,920	$1,920	$1,920	$0	
TOTAL LINER COST ($)	$0	$3,346	$0	$20,745	$0	$26,098	$4,684	$16,060	$2,008	$2,008	$2,008	$0	$76,956
POND BACKFILL:													
Backfill required (Yds^3)	8740	8580	8740	8580	2517	14617	16319	9048	9048	9048	9048	18070	
Backfill Cost ($/Yd^3$)	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	
TOTAL BACKFILL COST ($)	$7,604	$7,465	$7,604	$7,465	$2,190	$12,717	$14,198	$7,872	$7,872	$7,872	$7,872	$15,721	$106,452
RADIATION SURVEY													
Areal required (acres)	0.00	1.72	0.00	1.72		2.90	2.17	1.10	1.10	1.10	1.10	0	
Survey Cost ($/acre)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
TOTAL SURVEY COST ($)	$0	$894	$0	$894	$0	$1,508	$1,128	$572	$572	$572	$572	$0	$6,712
LEAK DETECTION SYSTEM REMOVAL													
Volume of Gravel and Piping (Ft^3) (Assume 3")		8,209		8209		13,840	10,357	5,250	5,250	$5,200	$5,200		
Quantity per Truckload (Ft^3)		1,350		1,350		1,350	1,350	1,350	1,350	1,350	1,350		
Quantity to be Shipped to Licensed Site (Loads)		6		6		10	8	4	4	4	4		
Transportation Cost per Truckload		$2,900		$2,900		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900		
Transportation Cost ($)		$18,000		$18,000		$30,000	$22,000	$11,000	$11,000	$11,000	$11,000		
Total Handling Cost per load		$1,779		$1,779		$3,000	$2,245	$1,138	$1,138	$1,127	$1,127		
Disposal Fee per Cubic Foot ($)		$6.48		$6.48		$6.48	$6.48	$6.48	$6.48	$6.48	$6.48		
Disposal Cost ($)		$53,194		$53,194		$89,683	$67,113	$34,020	$34,020	$33,696	$33,696		
TOTAL LEAK DETECTION SYSTEM REMOVAL	$0	$72,974	$0	$72,974	$0	$122,683	$91,358	$46,158	$46,158	$45,823	$45,823	$0	$543,952
TOTAL POND RECLAMATION COST	$7,604	$160,019	$7,604	$177,418	$2,190	$258,953	$207,316	$103,503	$101,042	$84,608	$69,798	$15,721	$1,195,777

Guideline 12 costs were updated using Feb 2016 version.

SUMMARY - IRIGARAY:

TOTAL SLUDGE COST ($)	$342,576
TOTAL LINER COST ($)	$54,872
TOTAL BACKFILL COST ($)	$59,243
TOTAL RADIATION SURVEY COST ($)	$4,424
LEAK DETECTION SYSTEM REMOVAL	$359,989
TOTAL POND RECLAMATION COST	$821,105

SUMMARY - CHRISTENSEN:

TOTAL SLUDGE COST ($)	$119,129
TOTAL LINER COST ($)	$22,083
TOTAL BACKFILL COST ($)	$47,209
TOTAL RADIATION SURVEY COST ($)	$2,288
LEAK DETECTION SYSTEM REMOVAL	$183,963
TOTAL POND RECLAMATION COST	$374,672
TOTAL PROJECT COST - CR and IR ($)	$1,195,777

Uranium One USA, Inc.
2015-2016 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 5

WELL PLUGGING AND ABANDONMENT	Irigaray				Christensen									
	Mine Units	5I7 USMT	Monitor/		Mine Units									
	#1 Thru #9	Test Sites	Trend	Sub Total	#2	#3	#4	#5	#6	#7	#8	#10	#11	
Number of Wells	0	11		11										
Production / Injection Wells (Inclusive of Misc. Baseline / Regional Wells)					286	443	211	322	380	556	780	734	6	2978
Monitor Wells (Shallow, Deep, Perimeter)					50	47	33	72	64	66	76	72	0	408
Total					336	490	244	394	444	622	856	806	6	4198
Average Depth	250	250	250		345	300	430	450	520	550	375	500	500	
Average Diameter	4.5	4.5	4.5		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
Materials														
Bentonite Chips Required (Ft^3/Well)	11.4	11.4	11.4		11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	
Bags of Chips Required/Well	15.0	15.0	15.0		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
Cost Per Bag ($)	$4.70	$4.70	$4.70		$4.70	$4.70	$4.70	$4.70	$4.70	$4.70	$4.70	$4.70	$4.70	
Cost/Well Bentonite Chips ($)	$70.50	$70.50	$70.50		$70.50	$70.50	$70.50	$70.50	$70.50	$70.50	$70.50	$70.50	$70.50	
Gravel Fill Required (Ft^3/Well)	15.7	15.7	15.7		26.5	21.5	35.9	38.1	45.8	49.1	24.9	25.9	26.9	
Gravel Fill Required (Yd^3/Well)	0.58	0.58	0.58		0.98	0.80	1.33	1.41	1.70	1.82	0.92	0.96	1.00	
Cost of Gravel/Yd^3 ($)	$20.00	$20.00	$20.00		$20.00	$20.00	$20.00	$20.00	$20.00	$20.00	$20.00	$21.00	$22.00	
Cost/Well Gravel Fill ($)	$11.63	$11.63	$11.63		$19.63	$15.93	$26.59	$28.22	$33.93	$36.37	$18.44	$20.14	$21.92	
Cement Cone/Markers Req'd/Well	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	
Cost of Cement Cones/Markers ($)	$10.00	$10.00	$10.00		$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	
Total Materials Cost per Well	$92.13	$92.13	$92.13		$100.13	$96.43	$107.09	$108.72	$114.43	$116.87	$98.94	$100.64	$102.42	
Labor														
Hours Required per Well	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	
Labor Cost per Hour	$45.00	$45.00	$45.00		$45.00	$45.00	$45.00	$45.00	$45.00	$45.00	$45.00	$45.00	$45.00	
Total Labor Cost per Well ($)	$45.00	$45.00	$45.00		$45.00	$45.00	$45.00	$45.00	$45.00	$45.00	$45.00	$90.00	$135.00	
Equipment Rental														
Hours Required per Well	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Backhoe w/Operator Cost/Hr ($)	$48.47	$48.47	$48.47		$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	
Total Equipment Cost per Well ($)	$48.47	$48.47	$48.47		$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	
Total Cost per Well ($)	$185.60	$185.60	$185.60		$193.60	$189.90	$200.56	$202.19	$207.90	$210.34	$192.41	$239.11	$285.89	
										$72,485				
TOTAL WELL ABANDONMENT COST ($)	$0	$2,042	$0	$2,042	$65,049	$93,049	$48,937	$79,664	$92,306	$130,832	$164,707	$192,726	$1,715	$868,985

GRAND TOTAL IRIGARAY AND CHRISTENSEN	$871,027

Uranium One USA, Inc.
2015-2016 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 6

WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
I Wellfield Piping									
A. Removal									
Length/Well (Ft)	100	300	300	300	500	800	800	0	
Total Number of Wells	0	940	322	380	556	780	734	0	
Total Quantity (Ft)	0	282000	96600	114000	278000	624000	587200	0	
Cost of Removal ($/Ft)	$0.202	$0.202	$0.202	$0.202	$0.202	$0.202	$0.202	$0.202	
Cost of Removal ($)	$0	$56,964	$19,513	$23,028	$56,156	$126,048	$118,614	$0	$400,324
Average OD (Inches)	3.0	3.0	3.0	3.0	1.0	1.0	1.0	1.0	
Chipped Volume Reduction (Ft^3/Ft)	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
Chipped Volume (Ft^3)	0	4,512	1,546	1,824	4,448	9,984	9,395	0	
Quantity Per Truck Load (Ft^3)	540	540	540	540	540	540	540	540	
Total Number of Truck Loads	0.0	8.4	2.9	3.4	8.2	18.5	17.4	0.0	
B. Survey & Decontamination									
Percent Requiring Decontamination	0%	0%	0%	0%	0%	0%	0%	0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination ($/Load)	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	
Cost for Decontamination ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
C. Transport & Disposal									
1.) Landfill									
a. Transportation									
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
b. Disposal									
Disposal Fee Per Yd^3	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	
Yds^3 Per Load	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	
Total Cost - Landfill	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.) Licensed Site									
a. Transportation									
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	0.0	8.4	2.9	3.4	8.2	18.5	17.4	0.0	
Transportation Cost per Load	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$0	$24,360	$8,410	$9,860	$23,780	$53,650	$50,460	$0	$170,520
b. Disposal									
Disposal Cost Per Ft^3	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	
Disposal Fee Per Yd^3	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	
Quantity Per Truck Load (Yds^3)	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$29,393	$10,148	$11,897	$28,693	$64,735	$60,886	$0	$205,753
Total Cost - Licensed Site	$0	$53,753	$18,558	$21,757	$52,473	$118,385	$111,346	$0	$376,273
Total Cost - Transport & Disposal	$0	$53,753	$18,558	$21,757	$52,473	$118,385	$111,346	$0	$376,273
Total Cost - WF Piping Removal & Disposal	$0	$110,717	$38,071	$44,785	$108,629	$244,433	$229,960	$0	$776,597
II Production Well Pumps									
A. Pump and Tubing Removal									
Number of Production Wells	424	348	134	178	167	264	261	0	
Cost of Removal ($/well)	$60.18	$60.18	$60.18	$60.18	$60.18	$60.18	$60.18	$60.18	
Cost of Removal ($)	$0	$20,941	$8,063	$10,711	$10,049	$15,886	$15,706	$0	$81,357
Number of Pumps Per Truck Load	180	180	180	180	180	180	180	180	
Number of Truck Loads (Pumps)	0.0	1.9	0.7	1.0	0.9	1.5	1.5	0.0	
B. Survey & Decontamination (Pumps)									
Percent Requiring Decontamination	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	
Loads for Decontamination	0.0	1.0	0.4	0.5	0.5	0.8	0.8	0.0	
Cost for Decontamination ($/Load)	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	
Cost for Decontamination ($)	$0	$435	$174	$218	$218	$348	$348	$0	$1,740
C. Tubing Volume Reduction & Loading									
Length per Well (Ft)	100	300	300	450	500	230	500	500	
Total Quantity (Ft)	42,400	104,400	40,200	80,100	83,500	60,720	130,500	0	
Cost of Removal ($/Ft)	$0.025	$0.025	$0.025	$0.025	$0.025	$0.025	$0.025	$0.025	
Cost of Removal ($)	$0	$2,610	$1,005	$2,003	$2,088	$1,518	$3,263	$0	$12,486
Average OD (Inches)	3.0	3.0	3.0	3.0	1.0	1.0	1.0	1.0	
Chipped Volume Reduction (Ft^3/Ft)	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
Chipped Volume (Ft^3)	678	1,670	643	1,282	1,336	972	2,088	0	

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WORKSHEET 6

WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
Quantity per Truckload (Ft³)	540	540	540	540	540	540	540	540	
Number of Truck Loads	1.3	3.1	1.2	2.4	2.5	1.8	3.9	0.0	
D. Transport & Disposal									
Guideline 1.) Landfill									
a. Transportation									
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	
Loads To Be Shipped	0.0	1.0	0.4	0.5	0.5	0.8	0.8	0.0	
Transportation Cost per Load	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	
Transportation Cost ($)	$0	$1,184	$474	$592	$592	$947	$947	$0	$4,736
b. Disposal									
Disposal Fee Per Yd³	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$1,184	$474	$592	$592	$947	$947	$0	$4,736
Total Cost - Landfill	$0	$2,368	$947	$1,184	$1,184	$1,894	$1,894	$0	$9,472
2.) Licensed Site									
a. Transportation									
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	
Percent To Be Shipped (Tubing)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	1.3	4.0	1.5	2.9	2.9	2.5	4.6	0.0	
Transportation Cost per Load	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$3,643	$11,726	$4,469	$8,333	$8,480	$7,392	$13,388	$0	$57,431
b. Disposal									
Disposal Cost Per Ft³	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	
Disposal Fee Per Yd³	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$4,396	$14,148	$5,393	$10,054	$10,232	$8,920	$16,155	$0	$69,298
Total Cost - Licensed Site	$8,039	$25,874	$9,862	$18,387	$18,712	$16,312	$29,543	$0	$126,729
Total Cost - Transport & Disposal	$8,039	$28,242	$10,809	$19,571	$19,896	$18,207	$31,437	$0	$136,201
Total Cost - Pump Removal & Disposal	$8,039	$52,228	$20,052	$32,502	$32,250	$35,959	$50,754	$0	$231,783
III Surface Trunkline Piping									
A. Removal									
Total Quantity (Ft)	0	0	0	0	0	0	0	0	
Cost of Removal ($/Ft)	$0.146	$0.146	$0.146	$0.146	$0.146	$0.146	$0.146	$0.146	
Cost of Removal ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
Average OD (Inches)	8.750	8.750	0.000	0.000	0.000	0.000	0.000	0.000	
Chipped Volume Reduction (Ft³/Ft)	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	
Chipped Volume (Ft³)	0	0	0	0	0	0	0	0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	540	540	
Total Number of Truck Loads	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
B. Survey & Decontamination									
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination ($/Load)	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	
Cost for Decontamination ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
C. Transport & Disposal									
1.) Landfill									
a. Transportation									
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
b. Disposal									
Disposal Fee Per Yd³	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Landfill	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.) Licensed Site									
a. Transportation									
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
b. Disposal									
Disposal Cost Per Ft³	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	
Disposal Fee Per Yd³	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	

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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Licensed Site	$0	$0	$0	$0	$0	$0	$0	$0	$0
Tota Recirculation Phase $0.863 per Kgal	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Surface Trunkline Removal & Disposal	$0	$0	$0	$0	$0	$0	$0	$0	$0
IV Buried Trunkline									
A. Removal									
Total Quantity (Ft)	7300	11565	24500	47000	28500	49436	35636	0	
Cost of Removal ($/Ft)	$3.12	$3.12	$3.12	$3.12	$3.12	$3.12	$3.12	$3.12	
Cost of Removal ($)	$22,776	$36,083	$76,440	$146,640	$88,920	$154,240	$111,184	$0	$636,283
Average OD (Inches)	8.750	8.750	8.750	12.000	12.000	12.000	14.000	14.000	
Chipped Volume Reduction (Ft³/Ft)	0.088	0.088	0.088	0.130	0.130	0.130	0.152	0.152	
Chipped Volume (Ft³)	642	1018	2156	6110	3705	6426.68	5416.672	0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	540	540	
Number of Truck Loads	1.2	1.9	4.0	11.3	6.9	11.9	10.0	0.0	
B. Survey & Decontamination									
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination. ($/Load)	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	
Cost for Decontamination. ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
C. Transport & Disposal									
1.) Landfill									
a. Transportation									
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
b. Disposal									
Disposal Fee Per Yd³	$59.20	$59.20	$59.20	59.2	$59.20	$59.20	$59.20	$59.20	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Landfill	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.) Licensed Site									
a. Transportation									
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	1.2	1.9	4.0	11.3	6.9	11.9	10.0	0.0	
Transportation Cost per Load	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$3,480	$5,510	$11,600	$32,770	$20,010	$34,510	$29,000	$0	$136,880
b. Disposal									
Disposal Cost Per Ft³	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	
Disposal Fee Per Yd³	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$4,199	$6,648	$13,997	$39,541	$24,144	$41,640	$34,992	$0	$165,162
Total Cost - Licensed Site	$7,679	$12,158	$25,597	$72,311	$44,154	$76,150	$63,992	$0	$302,042
Total Cost - Transport & Disposal	$7,679	$12,158	$25,597	$72,311	$44,154	$76,150	$63,992	$0	$302,042
Total Cost - Buried Trunkline Removal & Disposal	$30,455	$48,241	$102,037	$218,951	$133,074	$230,391	$175,176	$0	$938,326
V Manholes									
A. Removal									
Total Quantity	0	8	5	11	5	15	11	0	
Cost of Removal ($ Each)	$117.00	$149.51	$149.51	$149.51	$149.51	$149.51	$149.51	$149.51	
Cost of Removal ($)	$0	$1,196	$748	$1,645	$748	$2,243	$1,645	$0	$8,223
Quantity Per Truck Load	10	10	10	10	10	10	10	10	
Number of Truck Loads	0.0	0.8	0.5	1.1	0.5	1.5	1.1	0.0	
B. Survey & Decontamination									
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination ($/Load)	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	
Cost for Decontamination ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
C. Transport & Disposal									
1.) Landfill									
a. Transportation									
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	

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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
b. Disposal									
Disposal Fee Per Yd³ ($)	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Landfill	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.) Licensed Site									
a. Transportation									
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
b. Disposal									
Disposal Cost Per Ft³	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	
Disposal Fee Per Yd³	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Licensed Site	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Transport & Disposal	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost Manhole Removal & Disposal	$0	$1,196	$748	$1,645	$748	$2,243	$1,645	$0	$8,223
TOTAL COST - WELLFIELD EQUIP REMOVAL & DISP	$38,494	$212,383	$160,907	$297,883	$274,701	$513,026	$457,535	$0	$1,954,929

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TOPSOIL REPLACEMENT & REVEGETATION	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
I Process Plant and Office Building									
A. Topsoil Handling & Grading									
Affected Area (Acres)	5.0	2.5	5.0	5.0	5.0	5.0	5.0	0.0	
Average Affected Thickness (Ins)	12.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds^3)	8067	4033	0	0	0	0	0	0	
Unit Cost - Haul/Place ($/$Yd^3$)	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	
Topsoil Handling Cost ($)	$7,018	$3,509	$0	$0	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	
Grading Cost ($)	$417	$208	$417	$417	$417	$417	$417	$0	
Sub Total - Topsoil	$7,435	$3,717	$417	$417	$417	$417	$417	$0	$13,235
B. Radiation Survey & Soil Analysis									
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
Sub Total - Survey & Analysis	$2,600	$1,300	$2,600	$2,600	$2,600	$2,600	$2,600	$0	$16,900
C. Revegetation									
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	
Sub Total - Revegation	$3,015	$1,508	$3,015	$3,015	$3,015	$3,015	$3,015	$0	$19,598
Sub Total - Process Plant and Office Bldg.	$13,050	$6,525	$6,032	$6,032	$6,032	$6,032	$6,032	$0	$49,733
II Ponds									
A. Topsoil Handling & Grading									
Affected Area (Acres)	20.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	
Average Affected Thickness (Ins)	12	12	0	0	0	0	0	0	
Topsoil Volume (Yds^3)	32267	19360	0	0	0	0	0	0	
Unit Cost - Haul/Place ($/$Yd^3$)	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	
Topsoil Handling Cost ($)	$28,072	$16,843	$0	$0	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	
Grading Cost ($)	$1,666	$1,000	$0	$0	$0	$0	$0	$0	
Sub Total - Topsoil	$29,738	$17,843	$0	$0	$0	$0	$0	$0	$47,581
B. Radiation Survey & Soil Analysis									
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
Sub Total - Survey & Analysis	$10,400	$6,240	$0	$0	$0	$0	$0	$0	$16,640
C. Revegation									
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	
Sub Total - Revegation	$12,061	$7,236	$0	$0	$0	$0	$0	$0	$19,297
Sub Total - Ponds	$52,199	$31,319	$0	$0	$0	$0	$0	$0	$83,518
III Wellfields									
A. Topsoil Handling & Grading									
Affected Area (Acres)	40.0	55.0	30.0	50.0	35.0	40.0	35.0	0.0	
Average Affected Thickness (Ins)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
Topsoil Volume (Yds^3)	18822	25881	14117	23528	16469	18822	16469	0	
Unit Cost - Haul/Place ($/$Yd^3$)	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	
Topsoil Handling Cost ($)	$16,375	$22,516	$12,282	$20,469	$14,328	$16,375	$14,328	$0	
Unit Cost - Grading ($/Ac)	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	
Grading Cost ($)	$3,332	$4,582	$2,499	$4,166	$2,916	$3,332	$2,916	$0	
Sub Total - Topsoil	$19,708	$27,098	$14,781	$24,635	$17,244	$19,708	$17,244	$0	$140,418
B. Radiation Survey & Soil Analysis									
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
Sub Total - Survey & Analysis	$20,800	$28,600	$15,600	$26,000	$18,200	$20,800	$18,200	$0	$148,200
C: Spill Cleanup									
Affected Area (Acres)		0.036	0	0	0	0	0.10	0	
Affected Area (ft^2)		1,568	0	0	0	0	4529	0	
Average Affected Thickness (ft)		0.25	0	0	0	0	0	0	
Affected Volume (ft^3)		392	0	0	0	0	0	0	
Quantity per Truckload (ft^3)		540	540	540	540	540	540	540	
Quantity to be Shipped (Loads)		0.7	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)		$2,105	$0	$0	$0	$0	$0	$0	
Handling Cost ($240/load)		$174	$0	$0	$0	$0	$0	$0	
Disposal Fee per Cubic Foot ($)		$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	
Disposal Cost ($)		$2,395	$0	$0	$0	$0	$0	$0	

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TOPSOIL REPLACEMENT & REVEGETATION	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
Sub Total - Spill Cleanup	$0	$4,675	$0	$0	$0	$0	$0	$0	$4,675
D. Revegation									
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Guideline Seeding Prep & Seeding ($/Ac)	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	
Sub Total - Revegation	$24,121	$33,167	$18,091	$30,152	$21,106	$24,121	$21,106	$0	$171,864
Sub Total - Wellfields ($)	$64,629	$93,539	$48,472	$80,786	$56,550	$64,629	$56,550	$0	$465,156
IV Roads									
A. Topsoil Handling & Grading									
Affected Area (Acres)	25.0	20.0	15.0	21.0	12.0	15.0	10.0	0.0	
Average Affected Thickness (Ins)	12	12	12	12	12	12	12	12	
Topsoil Volume (Yds³)	40333	32267	24200	33880	19360	24200	16133	0	
Unit Cost - Haul/Place ($/Yd³)	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	
Topsoil Handling Cost ($)	$35,090	$28,072	$21,054	$29,476	$16,843	$21,054	$14,036	$0	
Unit Cost - Grading ($/Ac)	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	
Grading Cost ($)	$2,083	$1,666	$1,250	$1,750	$1,000	$1,250	$833	$0	
Sub Total - Topsoil	$37,173	$29,738	$22,304	$31,225	$17,843	$22,304	$14,869	$0	$175,455
B. Radiation Survey & Soil Analysis									
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
Sub Total - Survey & Analysis	$13,000	$10,400	$7,800	$10,920	$6,240	$7,800	$5,200	$0	$61,360
C. Revegation									
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	
Sub Total - Revegation	$15,076	$12,061	$9,045	$12,664	$7,236	$9,045	$6,030	$0	$71,158
Sub Total - Roads ($)	$65,249	$52,199	$39,149	$54,809	$31,319	$39,149	$26,099	$0	$307,973
V Other									
A. Topsoil Handling & Grading									
Affected Area (Acres)	41.0	19.0	5.0	5.0	5.0	5.0	5.0	0.0	
Average Affected Thickness (Ins)	0.0	0.0	0	0	0	0	0	0	
Topsoil Volume (Yds³)	0	0	0	0	0	0	0	0	
Unit Cost - Haul/Place ($/Yd³)	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	
Topsoil Handling Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	
Grading Cost ($)	$3,416	$1,583	$417	$417	$417	$417	$417	$0	
Sub Total - Topsoil	$3,416	$1,583	$417	$417	$417	$417	$417	$0	$7,081
B. Radiation Survey & Soil Analysis									
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
Sub Total - Survey & Analysis	$21,320	$9,880	$2,600	$2,600	$2,600	$2,600	$2,600	$0	$44,200
C. Revegation									
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	
Sub Total - Revegation	$24,724	$11,458	$3,015	$3,015	$3,015	$3,015	$3,015	$0	$51,258
Sub Total - Other	$49,460	$22,920	$6,032	$6,032	$6,032	$6,032	$6,032	$0	$102,539
VI Remedial Action									
A. Topsoil Handling & Grading									
Affected Area (Acres)	65.5	54.3	27.5	40.5	28.5	32.5	27.5	0.0	
Average Affected Thickness (Ins)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds³)	0	0	0	0	0	0	0	0	
Unit Cost - Haul/Place ($/Yd³)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
Topsoil Handling Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
Grading Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	
Sub Total - Topsoil	$0	$0	$0	$0	$0	$0	$0	$0	$0
B. Radiation Survey & Soil Analysis									
Unit Cost ($/Ac)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
Sub Total - Survey & Analysis	$0	$0	$0	$0	$0	$0	$0	$0	$0
C. Revegation									
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	

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TOPSOIL REPLACEMENT & REVEGETATION	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
Sub Total - Revegation	$39,498	$32,714	$16,583	$24,423	$17,186	$19,598	$16,583	$0	$166,587
Sub Total - Remedial Action	$39,498	$32,714	$16,583	$24,423	$17,186	$19,598	$16,583	$0	$166,587
TOTAL COST - TOPSOIL & REVEGETATION	$284,084	$239,217	$116,268	$172,081	$117,119	$135,440	$111,296	$0	$1,175,506

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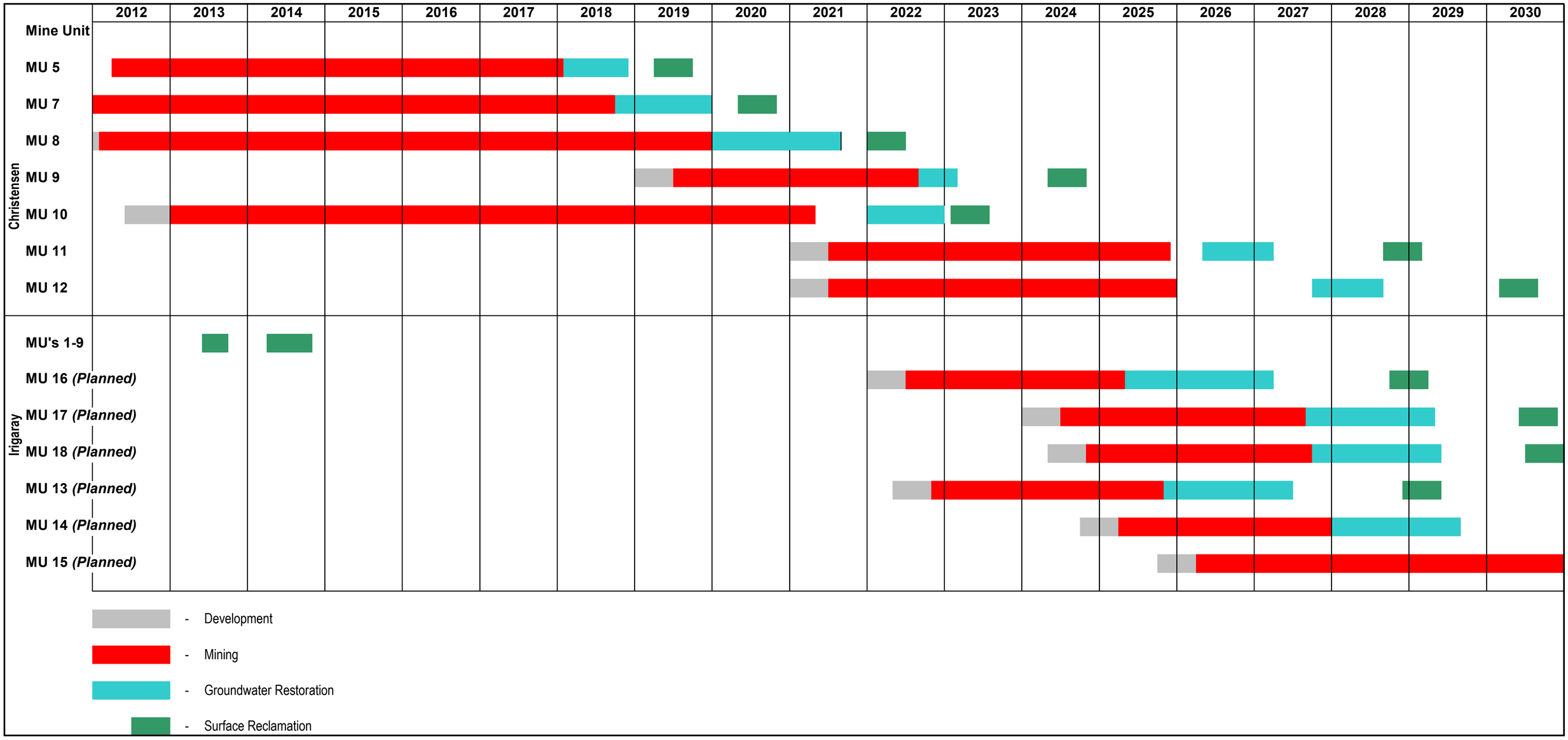
	MISCELLANEOUS RECLAMATION	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
I	Fence Removal & Disposal									
	Quantity (Feet)	15240	35260	20000	9000	18000	19300	26064	0	
	Cost of Removal/Disposal ($/Ft)	$0.38	$0.38	$0.38	$0.38	$0.38	$0.38	$0.38	$0.38	
	Cost of Removal/Disposal ($)	$5,791	$13,399	$7,600	$3,420	$6,840	$7,334	$9,904	$0	$54,288
II	Powerline Removal & Disposal									
	Quantity (Feet)	9450	10565	18000	18000	5500	21990	13136	0	
	Cost of Removal/Disposal ($/Ft)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
	Cost of Removal/Disposal ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
III	Powerpole Removal & Disposal									
	Quantity	25	30	60	60	19	74	44	0	
	Cost of Removal/Disposal ($/Each)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
	Cost of Removal/Disposal ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
IV	Transformer Removal & Disposal									
	Quantity	0	1	0	0	18	27	18	0	
	Cost of Removal/Disposal ($/Each)	$0.00	$0.00	$0.00	$0.00	$0	$0	$0	$0	
	Cost of Removal/Disposal ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
V	Booster Pump Assembly Removal & Disposal									
	Quantity	0	6	5	5	12	16	12	0	
	Cost of Removal/Disposal ($/Each)	$248	$248	$248	$248	$248	$248	$248	$248	
	Cost of Removal/Disposal ($)	$0	$1,488	$1,240	$1,240	$2,976	$3,968	$2,976	$0	$13,888
VI	Culvert Removal & Disposal									
	Quantity (Feet)	150	1200	1000	1000	500	20	20	0	
	Cost of Removal/Disposal ($/Ft)	$6.04	$6.04	$6.04	$6.04	$6.04	$6.04	$6.04	$6.04	
	Cost of Removal/Disposal ($)	$905	$7,244	$6,037	$6,037	$3,018	$121	$121	$0	$23,482
VII	Guardrail Removal									
	Quantity (Feet)	200	3000	0	0	0	0	0	0	
	Cost of Removal/Disposal ($/Ft)	$6.44	$6.44	$6.44	$6.44	$6.44	$6.44	$6.44	$6.44	
	Cost of Removal/Disposal ($)	$1,288	$19,320	$0	$0	$0	$0	$0	$0	$20,608
VIII	Low Water Stream Crossing									
	Quantity	0	1	1	0	0	0	0	0	
	Cost of Removal/Disposal ($/Each)	$4,500	$4,500	$4,500	$4,500	$4,500	$4,500	$4,500	$4,500	
	Cost of Removal/Disposal ($)	$0	$4,500	$4,500	$0	$0	$0	$0	$0	$9,000
IX	Utilities Cost									
	Quantity (Mos)	0	8	4	4	4	4	4	0	
	Power ($/Month)	$65	$65	$65	$65	$65	$65	$65	$65	
	Telephone ($/Month)	$500	$500	$500	$500	$500	$500	$500	$500	
	Total Cost ($)	$0	$4,520	$2,260	$2,260	$2,260	$2,260	$2,260	$0	$15,820
	TOTAL MISCELLANEOUS COST	$7,985	$50,471	$21,637	$12,957	$15,094	$13,683	$15,261	$0	$137,086

Uranium One USA, Inc.
2015-2016
Willow Creek Project Projected Life of Mine