

December 9, 2013

Mr. Dorran Larner
Project Manager
Department of Environmental Quality – Land Quality Division
2100 West 5th Street
Sheridan, WY 82801

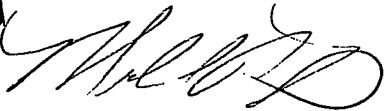
Re: Uranerz Energy Corporation Nichols Ranch ISR Project Permit to Mine No. 778 Annual Report

Dear Mr. Larner,

Herewith are two copies of the December 29, 2012 – December 28, 2013 Annual Report for the Uranerz Energy Corporation (Uranerz) Nichols Ranch ISR Project, Permit to Mine No. 778.

If you have any questions regarding the provided information, please contact me at 307-265-8900 or by email at mthomas@uranerz.com.

Sincerely,



Michael P. Thomas
Vice President Regulatory Affairs
Uranerz Energy Corporation

MT/dk

Enclosures

cc: Document Control Desk, U.S. Nuclear Regulatory Commission

FSME20

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**Nichols Ranch ISR Project
WDEQ-LQD Annual Report
Permit to Mine No. 778
December 29, 2012 through December 28, 2013**

This report contains the information required by the Wyoming Environmental Quality Act, W.S. §35-11-411 and Uranerz Energy Corporation Nichols Ranch ISR Project Permit to Mine No. 778. The report is formatted to respond to the list of items contained in the document, "NonCoal InSitu Annual Report Format Draft" that was provided by the Wyoming Department of Environmental Quality – Land Quality Division and requirements found in the Uranerz Energy Corporation Nichols Ranch ISR Project Permit to Mine No. 778 Mine Plan.

I. REQUIRED ANNUAL REPORT INFORMATION

1. General Information

Name of Permittee: Uranerz Energy Corporation
PO Box 50850
Casper, WY 82605-0850
307-265-8900

Mining Permit Number: Permit to Mine No. 778

Date of Permit Issuance: December 29, 2010

Minerals Mined: Uranium

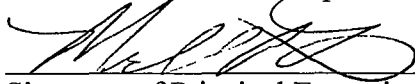
2. Reporting Period

December 29, 2012 – December 28, 2013

TITLE/CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluate 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 known violations.

Mike Thomas Vice President Regulatory Affairs
Name and Title of Principal Executive Office or Authorized Agent



Signature of Principal Executive Officer or Authorized Agent

December 9, 2013

Date

II. MINE OPERATIONS

A. Operating Wellfields

During the time period covered, Uranerz had no operating wellfields. Wellfield Production Area #1 (PA#1) was approved, for use, by WDEQ-LQD and the NRC.

B. Water Balance/Hydrology

1. During the time period covered, Uranerz extracted no uranium. Uranerz has no ponds to report.
2. The potentiometric surface remains unchanged from the permit application as no production has occurred.
3. Uranerz completed two deep disposal wells at the Nichols Ranch Unit in accordance with WDEQ-WQD permit 10-392. Deep disposal wells, NICH DW-1 and NICH DW-4, were installed by the end of 3rd Quarter 2013. Each well was tested with the final reports being submitted to WDEQ-WQD for use approval. Neither well was utilized during the report period, nor will the wells be used until approval is received by WDEQ-WQD.

C. Spills

Uranerz reported one unplanned release within the annual period. The release resulted from a contractor spilling grey water on the deep disposal well pad disturbance area. The release was not related to a wellfield or process fluid spill. The table below summarizes the information regarding the unplanned release. In accordance with the Section 3.18.2 of the Mine Plan an illustration of reportable spills is to be provided. Figure 8, in Appendix E, illustrates the release location.

Date	Location	Quantity	Quantity Recovered	Quality	GPS Points	Cause
8/14/2013	NICH DW-1 Drill Pad	500	250	Grey Water	Easting-1370084.82 Northing-15874011.52 Elevation- 4691.362	Contractor Error

D. Excursions

Uranerz has no excursions to report for the period.

E. Mechanical Integrity Testing Results for Existing Wells

Mechanical Integrity Test results are provided in Quarterly Reports to WDEQ-LQD. The MIT procedure is followed pursuant to Section 3.6 of WDEQ-LQD Mine Plan. A total of 68 wells were reported MIT'd between 4th Quarter 2012 and 3rd Quarter 2013. As reported in the 2012 4th Quarter Report, MITs had been completed on five wells but had not been reported in their respective quarterly reports. These five wells included N1A-005, N1A-070, N1A-081, N1A-095

and N1B-002. A copy of each quarter's tabulated MIT report and correlating well status are included in Appendix B. These reports can also be found on the enclosed CD. The following is a summary of the MIT quarterly reports.

Reporting Period	No. Wells Reported	No. Wells Passed	No. Wells Failed	Failed Well Status
4th Quarter 2012	39	37	2	
1st Quarter 2013	29	29	0	2 wells from 4 th Quarter 2012 abandoned
2nd Quarter 2013	0	0	0	
3rd Quarter 2013	0	0	0	

Two of the 68 wells were abandoned as reported in the Quarterly Reports. All wells failing MIT were plugged and abandoned according to Permit to Mine No. 778, Volume V, Mine Plan Section 3.8 and Wyoming Statute 35-11-404. Well abandonment is discussed in Section III (B) of this Annual Report.

F. New Affected Lands during the Reporting Period

1. Soil Salvaged and Stockpiled

Topsoil

Topsoil is salvaged and stockpiled in accordance with Section 3.12 of the Mine Plan. During the past year no new long term stock piles have been developed. The long term stockpile, Topsoil #3, received additional topsoil during the reporting period. It has been contoured and will be seeded in the spring 2014. Two short term topsoil stockpiles were made for the deep disposal well construction pads. These short term topsoil stockpiles are located directly adjacent to the deep disposal pads, Nich DW-1 and Nich DW-4. Each short term topsoil stockpile has been staked with topsoil designations.

Table 1, in Appendix A, is a list of the long term topsoil stockpiles at the Nichols Ranch Unit. Figure 1, in Appendix E, depicts both long and short term topsoil stockpiles.

Subsoil

Two short term subsoil piles located adjacent to the deep disposal pads, Nich DW-1 and Nich DW-4 were created from the temporary drilling pits required for well installation. The subsoil will be backfilled into the drilling pits during interim reclamation of the area.

There was no soil salvaging activities to report at the Hank Unit.

2. New Building

Construction of the mining facilities, at the Nichols Ranch Unit, progressed during the year. Activities during the reporting period comprised:

- Wellfield development of PA#1 – Header House 4 was the only structure constructed in the wellfield. Otherwise, development of Header Houses 1 through 3 continued with installation of pipelines and well leak detection. Installation of the main trunk line between the wellfield and the Central Processing Plant was completed.
- Two new deep disposal wells, Nich DW-1 and Nich DW-4 and related building infrastructure were installed.
- A manifold building was constructed to house the main trunklines between the wellfield production areas. The structure is located northeast of the CPP, just outside the fence perimeter.

No construction activities occurred at the Hank Unit during the report period.

3. New Ponds Constructed

No ponds were constructed at the Nichols Ranch ISR Project area during the year.

4. New roads, utilities (e.g. pipelines, power lines) illustrated on a map and total acres disturbed.

- A new plant water well was installed along with related piping. The well is permitted with the Wyoming State Engineer's Office for industrial use.
- The WDEQ-WQD approved a domestic water system consisting of one domestic well.

Disturbed acreage for the reporting period is approximately 5.06 acres. The disturbed areas are illustrated in Appendix E, Figure 2. Table 2 in Appendix A tabulates surface disturbance acreage by year and location.

G. New Wells/Wellfields Installed in the Past Year

Well installation was performed according to Section 3.1 of the Mine Plan. PA#1 was the only wellfield in which new wells were installed. Minimal well installation occurred during the period. Installation occurred specifically during 4th Quarter 2012, 1st and 3rd Quarters 2013. Sixty-six Class III wells were installed during the report period. Well completion details are provided in Table 3, of Appendix A, and represent the completion details for all wells installed in PA#1, not just those installed during the period. Well completion data is maintained on site. Figure 3 in Appendix E shows the well locations for PA#1.

On June 19, 2013 Uranerz submitted well name changes for 124 wells in PA#1. The well name changes represented an internal administrative change; there was no revision to the Permit or the PA#1 Wellfield Package. No monitor well names were changed. These well name changes have been incorporated into Table 3.

H. Class III Well Stimulation

Uranerz performed no well stimulation during the report period.

I. Environmental Monitoring

1. No production monitoring occurred during the past year as Uranerz wellfield PA#1 was not in operation.
2. Ground and Surface Water Sampling

Groundwater samples were collected from livestock and domestic wells within 2 km of the production area during the reporting period in accordance with NRC License SUA-1957 Condition 12.10. The groundwater quality results for these wells are reported in the NRC Semi-Annual Report. WDEQ-LQD was provided a courtesy copy of the January-June 2013 Semi-Annual Report (cover letter dated July 17, 2013) which contains the sampling results. A copy of the tabulated results provided in the NRC Semi-Annual Report is in Appendix C.

Surface water samples are collected from self-samplers installed at the Dry Willow Creek, the Cottonwood Creek, upstream, and the Cottonwood Creek Nichols, downstream as described in Section 3.14.7.7.3.1 of the Mine Plan. The water samples are grab samples collected after runoff events. These surface water samples are required to be collected when water is present. Per the Mine Plan, surface water is analyzed for total uranium, Th-230, Ra-226, Pb-210. The NRC License Condition 12.10 requires analysis of alkalinity, conductivity and chloride parameters also be analyzed. Surface water was limited during the report period given the dry conditions.

Figure 4 and Figure 5 in Appendix E show the monitoring locations at Nichols Ranch and Hank Units respectively.

3. Wildlife Surveys

In accordance with Section 3.15 of the Mine Plan, wildlife surveys will be performed annually and a report submitted. Surveys for raptors and sage grouse were performed between April and June, 2013 by TRC Environmental Corporation. A copy of the survey report and results are in Appendix D.

J. Deviations or Unanticipated Events or Conditions

The Production schedule was revised in the 2012 Annual Report showing start-up during the summer 2013; however, economics and installation of the deep disposal wells delayed start-up. It was also projected that Header Houses 4 through 6 would be developed and Class III wells installed during the summer 2013. Given the delays in start-up, wellfield development was also slowed to contain activities. Thus, less ground disturbing activities occurred in the wellfield than projected in the 2012 Annual Report. The project schedule has been revised to account for these delays. Next year's projected plans are discussed in the following section. Figure 6, in Appendix E, depicts the updated Projected Production, Restoration, and Reclamation schedule.

The Jane Dough Amendment package was planned for submittal in late 2nd Quarter 2013; however, this will be submitted in the next report period and is discussed below.

The Bureau of Land Management (BLM) Environmental Assessment (EA) for the Hank Unit remains pending and therefore no work has commenced.

There were no unanticipated events or conditions during the report period.

K. Projected Operations

Projected operations at the Nichols Ranch Unit, for 2014, include:

- Complete infrastructure for the two deep disposal wells installed.
- Start production 1st Quarter 2014 in Header Houses 1 through 3 of PA#1.
- Advance wellfield development in PA#1 with the completion of Header House 4, install Header Houses 5 through 8, complete Class III well installation associated with those Header Houses, and construct the wellfield access road. Surface disturbance for wellfield development activities is estimated at 18 acres.
- Construction of a personnel on-site camp feature, related infrastructure and an improved access road. Surface disturbance for this activity is estimated at 0.18 acres.
- Installation of Production Area #2 (PA #2) monitor ring wells, as wells as overlying, underlying, and production monitor wells. Uranerz also plans to complete baseline sampling and perform the pump test, for submittal of PA #2 Wellfield Package late 2014. Surface disturbance for this activity is estimated at 1.28 acres.

It is anticipated that the Jane Dough Amendment package will be submitted 1st Quarter 2014. This permit amendment will include the baseline data for the Jane Dough area along with revisions of the Mine and Reclamation sections of the permit.

Uranerz does not plan any construction to occur in the Hank Unit during 2014.

III. RECLAMATION:

A. Groundwater Restoration Activities

No groundwater restoration activities occurred during the year.

B. Well Plugging and Abandonment Activities

PA#1 was the only wellfield in which well installation occurred during the year. A total of 4 wells were plugged and abandoned during the year. Wells are plugged and abandoned according to Section 3.8 of the Mine Plan. Well abandonment records are maintained on file at the project site. Table 4, in Appendix A, is a tabulation of the wells abandoned during the report period. This data has also been included in electronic format on the CD provided.

C. Surface Reclamation Activities Past and Present

Surface reclamation is carried out per Section 3.1 of the Reclamation Plan. Table 5, in Appendix A, tabulates the surface reclamation activities occurring by year. Figure 7, in Appendix E, shows the areas of surface reclamation for the year. Interim surface reclamation activities during the year included:

- The remaining three sections, 3 acres, were reclaimed on the trunkline during the beginning of the 1st Quarter 2013. These areas were recontoured, mulched and seeded.

The landowner sprayed for noxious weeds during July 2013. Otherwise no other weed spraying was performed this period so as not to harm new growth from seeding the previous year.

No reclamation activities occurred at the Hank Unit during the report period.

D. Deviations or Unanticipated Events or Conditions

Uranerz had reported in the 2011-2012 Annual Report that soil stockpile, Topsoil #3 would be seeded in 2013. As reported in the discussion of Topsoil above, Topsoil #3 received additional material to the stockpile. Additionally, there was a shortage of seed mixture this year. Those two items combined impeded seeding as planned. Best management practices; however, were employed to stabilize the area until seeding can be completed. Uranerz will complete seeding of the topsoil stockpile, Topsoil # 3 in the Spring of 2014.

IV. ABANDONED DRILL HOLE REPORT

Five (5) pilot holes were abandoned during the report period. Table 6, in Appendix A, contains the abandonment details. The pilot holes were abandoned according to the Mine Plan and WDEQ NonCoal Rules and Regulations, Chapter 8. Abandonment records are maintained on-site.

V. PERFORMANCE BOND ESTIMATE

According to WDEQ-LQD Permit to Mine No. 778 and NRC License SUA-1597, Uranerz is required to submit an updated Annual Surety Estimate Revision each year to adjust the bond amount to reflect existing operations and those planned for construction or operation in the following year. Appendix F contains the bond estimate. The following is a discussion of the bond and adjustments made to the bond are discussed by worksheet below.

The current performance bond accounts for construction and start-up of the Nichols Unit CPP, associated facilities, PA#1, restoration of PA#1, monitor wells for PA# 2, various activities for the 2014 year, and reclamation of the entire Nichols Ranch Unit operation. The amount of \$6.8 million for Bond No. 1057688 was approved by the WDEQ-LQD with the issuance of Permit to Mine No. 778. Uranerz review of the current approved bond finds that overall it remains sufficient to cover all costs of reclamation and restoration for the level of activity. At this time, Uranerz respectfully requests that no changes be made to the bond.

Significant changes to the surety estimate include:

- Uranerz decided to switch from using the producer price index to the consumer price index (CPI) adjustment factor. Uranerz initially used the Producer Price Index (PPI) indicating that it better represented industry; however the majority of industry uses the CPI. In switching, Uranerz adjusted the CPI to the 2012 annual adjustment. Once in production, the CPI adjustment factor will be updated to the last annual index change, e.g. during the 2014 review the estimate will be updated to 2013 CPI adjustments.

- Uranerz previous bond estimate accounted for 12 Header Houses in PA#1. The plan is to only have 8 Header Houses in by end of 2014. The number of Header Houses in PA#1 was therefore reduced from 12 to 8. This reduction also required an adjustment to the number of injection and recovery wells needed for 8 Header Houses.
- Surety was added for buildings and related infrastructure related to deep disposal wells NICH DW-1 and NICH DW-4.
- Chemical costs were adjusted based on new product availability. As well, elution costs were removed as no elution circuits have been installed at this time, nor are planned for the coming year.
- A new worksheet, Worksheet 5, No IV, was added to account for manholes along the main trunkline to PA#1.
- Cost for propane was adjusted to current costs.
- Surety was added for the temporary lodging facilities that are to be installed in the permit boundary.
- Surety was added for the planned installation and completion of 70 new monitor wells for Production Area #2. This includes the monitor ring wells, and overlying, underlying, and production monitoring wells.

Worksheet 1, No.1

- The Wellfield Area (Acres) was reduced to account for 8 header houses versus the 12 header houses initially provided for.
- The numbers of recovery and injection wells were reduced to account for 8 header houses planned.
- Pump efficiency was increased from 80% up to 100%.
- Propane costs were evaluated and adjusted to represent current cost. The adjustment accounts for a decrease in surety cost from \$800 per month to \$330 per month.

Worksheet 1, No. II

- Pump efficiency was increased from 80% up to 100%.
- Sulfuric acid and caustic soda were removed as these chemicals are no longer planned for use in the process at this time.
- The RO antiscalent cost was increased to reflect actual current product cost.
- Propane costs were adjusted to reflect same change as in Worksheet 1, No. 1.

Worksheet 1, No III

- Pump efficiency was increased from 80% up to 100%.
- Sulfuric acid, corrosion inhibitor and algacide were removed as these chemicals are no longer planned for use in the process.
- The RO antiscalent and DDW antiscalent costs were increased to reflect actual current product cost.

Worksheet 1, No IV – VI

- The Quantity of Monitoring Wells in the Restoration Monitoring, Section IV, was reduced. The production monitoring wells (i.e. MPN wells) were removed from the count as these wells are not included in the restoration sampling. According to the Reclamation Plan, Section 1.4 only monitor ring, overlying and underlying monitor wells are included in the sampling regime.

Worksheet 1, Nos. VII, VIII & Summary

- No changes

Worksheet 2a

- Deep well infrastructure costs were added.
- Header Houses were reduced from 12 to 8 for PA#1. Additionally costs were added for the Manifold.
- The License Site cost for Disposal Cost (\$/ton) and Unloading Cost (per shipment) were adjusted to remove the inflation factor and reflect actual contract pricing with 11e2 disposal contractor.

Worksheet 2b

- Columns for the temporary personnel lodging facility and deep well infrastructure (2 deep wells) were added.
- Header Houses were reduced from 12 to 8 for PA#1. Added the Manifold building and Fuel Island Pad in with the Header House costs.
- Unit Cost for Demolition and Disposal Cost were adjusted to reflect costs taken from WDEQ Guideline 12 (rev. 2013).
- Under Concrete Decontamination, Demo & Disposal, the Area for Header Houses was adjusted to 8 header houses.
- Demolition (\$/Ft²) and Disposal Cost per Cubic Yard were adjusted to reflect costs taken from WDEQ Guideline 12 (rev. 2013).
- The License Site cost for Disposal Cost (\$/ton) and Unloading Cost (per shipment) were adjusted to remove the inflation factor and reflect actual contract pricing with 11e2 disposal contractor.

Worksheet 3

- Columns for the temporary personnel lodging facility and deep well infrastructure were added.
- Header Houses were reduced from 12 to 8 for PA#1.
- The License Site cost for Disposal Cost (\$/ton) and Unloading Cost (per shipment) were adjusted to remove the inflation factor and reflect actual contract pricing with 11e2 disposal contractor.
- Under Radiation Survey the number of header house structures was reduced from 12 to 8 header houses.

Worksheet 4

- Reduced the Number of Wells for PA#1 to match the count on Worksheet 1, No. I, plus accounted for the plant and domestic water wells.
- The Disposal Cost (\$/ton) was increased to reflect contract pricing with 11e2 disposal contractor.
- Added surety for 70 monitor wells in Production Area #2, planned for 2014. The number accounts for monitoring ring, overlying, underlying and monitoring production wells.

Worksheet 5, No. I

- Total Number of Wells for PA#1 was adjusted to match the count on Worksheet 1, No. I.
- The Disposal Cost (\$/ton) was increased to reflect contract pricing with 11e2 disposal contractor.
- The License Site cost for Disposal Cost (\$/ton) and Unloading Cost (per shipment) were adjusted to remove the inflation factor and reflect actual contract pricing with 11e2 disposal contractor.

Worksheet 5, No. II

- The Number of Production Wells was adjusted to match Worksheet 1, No. I.
- The Disposal Cost (\$/ton) was increased to reflect contract pricing with 11e2 disposal contractor.
- The License Site cost for Disposal Cost (\$/ton) and Unloading Cost (per shipment) were adjusted to remove the inflation factor and reflect actual contract pricing with 11e2 disposal contractor.

Worksheet 5, No. III

- The Disposal Cost (\$/ton) was increased to reflect contract pricing with 11e2 disposal contractor.
- The License Site cost for Disposal Cost (\$/ton) and Unloading Cost (per shipment) were adjusted to remove the inflation factor and reflect actual contract pricing with 11e2 disposal contractor.

Worksheet 5, No. IV

- This is a new worksheet created to account for the manholes along the trunkline in PA#1.

Worksheets 6, No. I and Nos. II & III

- No changes to No. I.
- No. II Affected Area (Acres) was adjusted for 8 header houses instead of 12.
- No III Affected Area (Acres) was adjusted to reduce the area as only 8 header houses are planned.

Worksheet 6, Nos IV & V

- No changes

Worksheet 7, Nos. I-VII

- No. I – the Demolition Unit Cost was adjusted for WDEQ Guideline 12 (rev. 2013).
- Nos. II-IV no changes.
- No V – 5 culverts were added to PA#1. It is worth noting that these culverts are only 18-inch culverts versus the 48 inch culverts used in pricing in Guideline 12.
- Nos. VI-VII no changes.

VI. Additional Information Requested by the Division**A. Maps**

Eight maps were prepared for this Annual Report. The maps are located in Appendix E and include Figure 1-Site Layout, Figure 2-Surface Disturbance, Figure 3-Production Area #1 Well Locations, Figure 4-Nichols Ranch Unit Monitoring Locations, Figure 5-Hank Unit Monitoring Locations, Figure 6-Schedule, Figure 7-Surface Reclamation and Figure 8-Unplanned Releases.

Since no mining activities occurred during the reporting period, the potentiometric maps supplied in the Nichols Ranch ISR Project Permit to Mine, Appendix D6, Volume IIIa, Figures D6-5 through D6-8 are representative of the current potentiometric levels.

B. Typical Lixiviant Solution Composition

According to the Mine Plan, Section 3.18.2 Uranerz will review and update the lixiviant composition as needed. There was no lixiviant solution composition to review during the reporting period.

Electronic Data

A CD has been included which contains a pdf. files of the report, tables, and figures.



WDEQ Permit to Mine No. 778
Annual Report
Dec. 29, 2012 - Dec. 28, 2013

Appendix A

Tables

TABLE 1
Long-term Topsoil Stockpiles
December 29, 2012 to December 28, 2013 Annual Report
Uranerz Permit to Mine 778

Nichols Ranch Unit			
Stockpile No.	Location	Year	Quantity (yd ³)
1	Site Facility	2011	7500
2	Silo	2011	2056
3	Production Area 1 Wellfield - North end	2012	150
3	Production Area 1 Wellfield - North end (total 262 yd3)	2013	262 (150 + 112 added 2013)
Topsoil Total Qty			9818

TABLE 2
Surface Disturbance Acreage
December 29, 2012 to December 28, 2013 Annual Report
Uranerz Permit to Mine 778

Nichols Ranch Unit

Year	Location	Acreage
2013	Nich DW-1 and Nich DW-4 pads and associated pipelines	5
	Plant Well and Pipelines	0.01
	Manifold Building Area	0.05
	<i>Acreage Affected 2013</i>	5.06
2012	Production Area #1 Headerhouses 1-4	11
	Production Area #1 Main Trunkline	8
	CPP Fence and Silo Access Fence	0.04
	CPP 25-year Ditch	0.36
	<i>Acreage Affected 2012</i>	19.4
2011	Plant Facility Area	7.8
	Waterline Corridor	0.9
	Silo Access Location	2.2
	Monitor Well Locations (71)	14
	<i>Acreage Affected 2011</i>	24.9
	Total Acreage Affected	49.36

Well Completion Details
December 29, 2012 to December 28, 2013 Annual Report
Uranerz Permit to Mine 778

Status	Mine Name	Well Name	Well Type	Completion Date	Geologic Unit Name	NORTHING (UTM 13 Survey Feet)	EASTING (UTM 13 Survey Feet)	Top of Casing ELEV (Ft.)	Datum
2012									
ACTIVE	Nichols Ranch	N1A-100	Class III	6/22/2012	A Sand	15878430.1	1368576.2	4804.0	NAD 27
ACTIVE	Nichols Ranch	N1A-101	Class III	8/2/2012	A Sand	15878438.6	1368439.1	4806.8	NAD 27
ACTIVE	Nichols Ranch	N1A-102	Class III	6/5/2012	A Sand	15878913.3	1368340.4	4773.2	NAD 27
ACTIVE	Nichols Ranch	N1A-103	Class III	6/4/2012	A Sand	15878329.2	1368507.2	4811.4	NAD 27
ACTIVE	Nichols Ranch	N1A-104	Class III	6/22/2012	A Sand	15878326.8	1368598.8	4808.4	NAD 27
ACTIVE	Nichols Ranch	N1A-105	Class III	6/6/2012	A Sand	15878410.4	1368476.3	4809.0	NAD 27
ACTIVE	Nichols Ranch	N1A-106	Class III	5/29/2012	A Sand	15878359.2	1368455.0	4813.0	NAD 27
ACTIVE	Nichols Ranch	N1A-107	Class III	6/22/2012	A Sand	15878365.3	1368564.1	4803.8	NAD 27
ACTIVE	Nichols Ranch	N1A-108	Class III	6/25/2012	A Sand	15878827.6	1368560.5	4792.7	NAD 27
ACTIVE	Nichols Ranch	N1A-109	Class III	5/25/2012	A Sand	15878346.0	1368453.4	4814.4	NAD 27
ACTIVE	Nichols Ranch	N1A-001	Class III	2/7/2012	A Sand	15878797.5	1368216.9	4793.4	NAD 27
ACTIVE	Nichols Ranch	N1A-010	Class III	5/8/2012	A Sand	15878307.9	1368316.4	4823.4	NAD 27
ACTIVE	Nichols Ranch	N1A-011	Class III	6/4/2012	A Sand	15878367.3	1368513.0	4809.4	NAD 27
ACTIVE	Nichols Ranch	N1A-110	Class III	5/29/2012	A Sand	15878378.1	1368516.8	4809.8	NAD 27
ACTIVE	Nichols Ranch	N1A-111	Class III	6/22/2012	A Sand	15878477.4	1368592.7	4810.6	NAD 27
ACTIVE	Nichols Ranch	N1A-112	Class III	8/24/2012	A Sand	15878378.9	1368594.8	4806.0	NAD 27
ACTIVE	Nichols Ranch	N1A-012	Class III	3/2/2012	A Sand	15878835.4	1368175.4	4789.4	NAD 27
ACTIVE	Nichols Ranch	N1A-013	Class III	3/1/2012	A Sand	15878966.9	1368203.2	4783.2	NAD 27
ACTIVE	Nichols Ranch	N1A-014	Class III	3/2/2012	A Sand	15878918.3	1368181.3	4783.9	NAD 27
ACTIVE	Nichols Ranch	N1A-015-1	Class III	6/1/2012	A Sand	15878660.8	1368400.8	4792.7	NAD 27
ACTIVE	Nichols Ranch	N1A-017	Class III	2/7/2012	A Sand	15878714.1	1368230.9	4800.1	NAD 27
ACTIVE	Nichols Ranch	N1A-018	Class III	3/1/2012	A Sand	15878459.9	1368182.1	4818.4	NAD 27
ACTIVE	Nichols Ranch	N1A-019	Class III	5/5/2012	A Sand	15878505.4	1368221.9	4813.9	NAD 27
ACTIVE	Nichols Ranch	N1A-002	Class III	3/20/2012	A Sand	15878832.8	1368307.8	4784.6	NAD 27
ACTIVE	Nichols Ranch	N1A-020	Class III	5/14/2012	A Sand	15878455.3	1368233.2	4817.3	NAD 27
ACTIVE	Nichols Ranch	N1A-021	Class III	6/6/2012	A Sand	15878408.5	1368464.8	4808.3	NAD 27
ACTIVE	Nichols Ranch	N1A-023	Class III	7/24/2012	A Sand	15878363.4	1368355.9	4817.0	NAD 27
ACTIVE	Nichols Ranch	N1A-024	Class III	3/2/2012	A Sand	15878815.7	1368615.7	4795.5	NAD 27
ACTIVE	Nichols Ranch	N1A-025	Class III	5/23/2012	A Sand	15878766.3	1368520.5	4797.7	NAD 27
ACTIVE	Nichols Ranch	N1A-026	Class III	3/1/2012	A Sand	15878409.3	1368226.6	4820.9	NAD 27
ACTIVE	Nichols Ranch	N1A-027	Class III	5/7/2012	A Sand	15878462.3	1368284.0	4814.6	NAD 27

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Status	Mine Name	Well Name	Well Type	Completion Date	Geologic Unit Name	NORTHING (UTM 13 Survey Feet)	EASTING (UTM 13 Survey Feet)	Top of Casing ELEV (Ft.)	Datum
ACTIVE	Nichols Ranch	N1A-028	Class III	3/19/2012	A Sand	15878927.8	1368239.9	4784.9	NAD 27
ACTIVE	Nichols Ranch	N1A-029	Class III	3/2/2012	A Sand	15878884.1	1368218.3	4787.4	NAD 27
ACTIVE	Nichols Ranch	N1A-003	Class III	2/7/2012	A Sand	15878754.6	1368255.0	4797.4	NAD 27
ACTIVE	Nichols Ranch	N1A-030	Class III	3/20/2012	A Sand	15878884.5	1368276.1	4782.6	NAD 27
ACTIVE	Nichols Ranch	N1A-031	Class III	3/2/2012	A Sand	15878791.2	1368575.5	4796.5	NAD 27
ACTIVE	Nichols Ranch	N1A-032	Class III	3/21/2012	A Sand	15878634.9	1368249.2	4806.1	NAD 27
ACTIVE	Nichols Ranch	N1A-033	Class III	5/22/2012	A Sand	15878804.5	1368500.7	4794.4	NAD 27
ACTIVE	Nichols Ranch	N1A-034	Class III	3/5/2012	A Sand	15878692.8	1368574.7	4807.3	NAD 27
ACTIVE	Nichols Ranch	N1A-035	Class III	5/16/2012	A Sand	15878430.9	1368341.5	4812.9	NAD 27
ACTIVE	Nichols Ranch	N1A-036	Class III	5/14/2012	A Sand	15878419.6	1368284.2	4818.9	NAD 27
ACTIVE	Nichols Ranch	N1A-037	Class III	3/20/2012	A Sand	15878794.6	1368280.2	4789.3	NAD 27
ACTIVE	Nichols Ranch	N1A-038	Class III	3/21/2012	A Sand	15878708.7	1368178.4	4798.4	NAD 27
ACTIVE	Nichols Ranch	N1A-039	Class III	3/21/2012	A Sand	15878617.0	1368215.6	4806.6	NAD 27
ACTIVE	Nichols Ranch	N1A-004	Class III	2/7/2012	A Sand	15878754.8	1368194.3	4796.7	NAD 27
ACTIVE	Nichols Ranch	N1A-040	Class III	3/21/2012	A Sand	15878581.6	1368263.6	4809.1	NAD 27
ACTIVE	Nichols Ranch	N1A-041	Class III	6/1/2012	A Sand	15878648.2	1368534.6	4801.9	NAD 27
ACTIVE	Nichols Ranch	N1A-042	Class III	4/9/2012	A Sand	15878611.4	1368315.5	4803.8	NAD 27
ACTIVE	Nichols Ranch	N1A-043	Class III	7/25/2012	A Sand	15878539.4	1368300.9	4810.4	NAD 27
ACTIVE	Nichols Ranch	N1A-044	Class III	2/6/2012	A Sand	15878559.0	1368361.1	4800.7	NAD 27
ACTIVE	Nichols Ranch	N1A-046	Class III	4/5/2012	A Sand	15878490.4	1368339.0	4807.9	NAD 27
ACTIVE	Nichols Ranch	N1A-047	Class III	5/15/2012	A Sand	15878459.7	1368384.8	4806.7	NAD 27
ACTIVE	Nichols Ranch	N1A-048	Class III	4/5/2012	A Sand	15878688.6	1368505.6	4795.7	NAD 27
ACTIVE	Nichols Ranch	N1A-049	Class III	3/22/2012	A Sand	15878624.3	1368500.5	4797.6	NAD 27
ACTIVE	Nichols Ranch	N1A-050	Class III	5/7/2012	A Sand	15878562.8	1368419.9	4795.9	NAD 27
ACTIVE	Nichols Ranch	N1A-051	Class III	4/20/2012	A Sand	15878791.9	1368362.4	4786.9	NAD 27
ACTIVE	Nichols Ranch	N1A-052	Class III	4/5/2012	A Sand	15878719.7	1368539.2	4801.6	NAD 27
ACTIVE	Nichols Ranch	N1A-054	Class III	4/26/2012	A Sand	15878753.0	1368316.9	4791.1	NAD 27
ACTIVE	Nichols Ranch	N1A-055	Class III	5/7/2012	A Sand	15878421.7	1368348.8	4812.7	NAD 27
ACTIVE	Nichols Ranch	N1A-056	Class III	5/16/2012	A Sand	15878399.3	1368472.2	4809.4	NAD 27
ACTIVE	Nichols Ranch	N1A-057	Class III	5/7/2012	A Sand	15878471.2	1368275.1	4814.5	NAD 27
ACTIVE	Nichols Ranch	N1A-058	Class III	5/8/2012	A Sand	15878452.3	1368294.0	4815.6	NAD 27
ACTIVE	Nichols Ranch	N1A-059	Class III	5/1/2012	A Sand	15878400.7	1368235.6	4823.2	NAD 27

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ACTIVE	Nichols Ranch	N1A-060	Class III	6/1/2012	A Sand	15878745.4	1368619.2	4800.7	NAD 27
ACTIVE	Nichols Ranch	N1A-061	Class III	5/16/2012	A Sand	15878410.4	1368405.9	4810.2	NAD 27
ACTIVE	Nichols Ranch	N1A-062	Class III	4/17/2012	A Sand	15878656.9	1368614.9	4810.3	NAD 27
ACTIVE	Nichols Ranch	N1A-063	Class III	4/13/2012	A Sand	15878699.2	1368584.8	4807.5	NAD 27
ACTIVE	Nichols Ranch	N1A-064	Class III	5/17/2012	A Sand	15878370.0	1368344.8	4816.8	NAD 27
ACTIVE	Nichols Ranch	N1A-065	Class III	4/20/2012	A Sand	15878718.3	1368365.8	4790.7	NAD 27
ACTIVE	Nichols Ranch	N1A-066	Class III	5/8/2012	A Sand	15878420.3	1368271.8	4820.4	NAD 27
ACTIVE	Nichols Ranch	N1A-067	Class III	6/12/2012	A Sand	15878307.4	1368551.1	4806.9	NAD 27
ACTIVE	Nichols Ranch	N1A-068	Class III	4/26/2012	A Sand	15878703.0	1368319.0	4796.7	NAD 27
ACTIVE	Nichols Ranch	N1A-069	Class III	5/14/2012	A Sand	15878386.0	1368315.0	4818.3	NAD 27
ACTIVE	Nichols Ranch	N1A-007	Class III	3/20/2012	A Sand	15878834.5	1368256.6	4789.8	NAD 27
ACTIVE	Nichols Ranch	N1A-071	Class III	4/27/2012	A Sand	15878669.4	1368354.5	4797.0	NAD 27
ACTIVE	Nichols Ranch	N1A-072	Class III	5/16/2012	A Sand	15878385.6	1368427.0	4811.3	NAD 27
ACTIVE	Nichols Ranch	N1A-073	Class III	6/15/2012	A Sand	15878484.4	1368602.7	4811.4	NAD 27
ACTIVE	Nichols Ranch	N1A-074	Class III	6/13/2012	A Sand	15878405.6	1368580.3	4804.8	NAD 27
ACTIVE	Nichols Ranch	N1A-075	Class III	6/13/2012	A Sand	15878338.9	1368597.3	4808.0	NAD 27
ACTIVE	Nichols Ranch	N1A-076	Class III	5/15/2012	A Sand	15878460.6	1368396.3	4805.8	NAD 27
ACTIVE	Nichols Ranch	N1A-077	Class III	7/24/2012	A Sand	15878352.8	1368464.0	4813.0	NAD 27
ACTIVE	Nichols Ranch	N1A-078	Class III	5/17/2012	A Sand	15878656.1	1368460.6	4784.0	NAD 27
ACTIVE	Nichols Ranch	N1A-079	Class III	5/5/2012	A Sand	15878523.2	1368394.3	4801.5	NAD 27
ACTIVE	Nichols Ranch	N1A-008-1	Class III	5/4/2012	A Sand	15878656.0	1368602.5	4810.7	NAD 27
ACTIVE	Nichols Ranch	N1A-080	Class III	5/9/2012	A Sand	15878457.9	1368245.0	4818.0	NAD 27
ACTIVE	Nichols Ranch	N1A-083	Class III	5/17/2012	A Sand	15878616.9	1368382.0	4798.8	NAD 27
ACTIVE	Nichols Ranch	N1A-084	Class III	7/24/2012	A Sand	15878442.7	1368339.7	4812.5	NAD 27
ACTIVE	Nichols Ranch	N1A-085	Class III	5/18/2012	A Sand	15878520.2	1368259.2	4813.6	NAD 27
ACTIVE	Nichols Ranch	N1A-087	Class III	6/7/2012	A Sand	15878875.0	1368313.0	4773.2	NAD 27
ACTIVE	Nichols Ranch	N1A-088	Class III	5/9/2012	A Sand	15878358.7	1368271.5	4823.6	NAD 27
ACTIVE	Nichols Ranch	N1A-089	Class III	5/21/2012	A Sand	15878738.3	1368548.1	4801.6	NAD 27
ACTIVE	Nichols Ranch	N1A-009	Class III	5/24/2012	A Sand	15878741.1	1368608.8	4801.3	NAD 27
ACTIVE	Nichols Ranch	N1A-090	Class III	5/22/2012	A Sand	15878393.5	1368307.5	4819.0	NAD 27
ACTIVE	Nichols Ranch	N1A-091	Class III	6/8/2012	A Sand	15878659.5	1368308.5	4801.5	NAD 27
ACTIVE	Nichols Ranch	N1A-092	Class III	6/25/2012	A Sand	15878918.3	1368287.3	4770.3	NAD 27

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ACTIVE	Nichols Ranch	N1A-093	Class III	5/29/2012	A Sand	15878423.1	1368513.8	4806.5	NAD 27
ACTIVE	Nichols Ranch	N1A-094	Class III	6/13/2012	A Sand	15878354.1	1368558.6	4804.4	NAD 27
ACTIVE	Nichols Ranch	N1A-096	Class III	6/12/2012	A Sand	15878833.2	1368344.9	4776.4	NAD 27
ACTIVE	Nichols Ranch	N1A-097	Class III	5/23/2012	A Sand	15878479.3	1368337.4	4810.0	NAD 27
ACTIVE	Nichols Ranch	N1B-001	Class III	1/7/2012	A Sand	15878305.0	1368642.6	4815.5	NAD 27
ACTIVE	Nichols Ranch	N1B-011	Class III	1/20/2012	A Sand	15878364.8	1368875.4	4836.5	NAD 27
ACTIVE	Nichols Ranch	N1B-013	Class III	4/13/2012	A Sand	15878878.8	1368702.4	4795.8	NAD 27
ACTIVE	Nichols Ranch	N1B-014	Class III	3/5/2012	A Sand	15878823.6	1368690.3	4799.1	NAD 27
ACTIVE	Nichols Ranch	N1B-016	Class III	4/4/2012	A Sand	15878307.3	1368923.9	4840.1	NAD 27
ACTIVE	Nichols Ranch	N1B-017	Class III	1/20/2012	A Sand	15878722.9	1368667.7	4805.0	NAD 27
ACTIVE	Nichols Ranch	N1B-019	Class III	6/25/2012	A Sand	15878480.3	1368687.5	4818.2	NAD 27
ACTIVE	Nichols Ranch	N1B-021	Class III	6/15/2012	A Sand	15878403.7	1368684.4	4818.4	NAD 27
ACTIVE	Nichols Ranch	N1B-022	Class III	6/15/2012	A Sand	15878336.6	1368680.3	4818.4	NAD 27
ACTIVE	Nichols Ranch	N1B-023	Class III	6/14/2012	A Sand	15878263.9	1368678.2	4818.9	NAD 27
ACTIVE	Nichols Ranch	N1B-025	Class III	6/26/2012	A Sand	15878695.8	1368709.7	4810.5	NAD 27
ACTIVE	Nichols Ranch	N1B-026	Class III	6/25/2012	A Sand	15878453.7	1368646.2	4814.3	NAD 27
ACTIVE	Nichols Ranch	N1B-028	Class III	6/27/2012	A Sand	15878510.9	1368647.6	4815.5	NAD 27
ACTIVE	Nichols Ranch	N1B-036	Class III	6/26/2012	A Sand	15878346.0	1368689.6	4818.4	NAD 27
ACTIVE	Nichols Ranch	N1B-004	Class III	1/7/2012	A Sand	15878522.8	1368648.7	4814.5	NAD 27
ACTIVE	Nichols Ranch	N1B-042	Class III	6/26/2012	A Sand	15878681.1	1368703.4	4811.4	NAD 27
ACTIVE	Nichols Ranch	N1B-005	Class III	1/7/2012	A Sand	15878609.3	1368648.8	4813.5	NAD 27
ACTIVE	Nichols Ranch	N1B-007	Class III	1/20/2012	A Sand	15878777.5	1368653.6	4799.1	NAD 27
ACTIVE	Nichols Ranch	N1B-008	Class III	1/19/2012	A Sand	15878852.0	1368655.7	4795.5	NAD 27
ACTIVE	Nichols Ranch	N1A-006	Class III	3/21/2012	A Sand	15878570.9	1368615.2	4812.7	NAD 27
ACTIVE	Nichols Ranch	N1A-016	Class III	3/21/2012	A Sand	15878674.0	1368206.0	4802.8	NAD 27
ACTIVE	Nichols Ranch	N1A-022	Class III	9/7/2012	A Sand	15878338.2	1368414.6	4814.8	NAD 27
ACTIVE	Nichols Ranch	N1A-045-1	Class III	7/3/2012	A Sand	15878513.8	1368402.1	4801.7	NAD 27
ACTIVE	Nichols Ranch	N1A-053	Class III	9/7/2012	A Sand	15878393.6	1368418.8	4810.7	NAD 27
ACTIVE	Nichols Ranch	N1A-082	Class III	5/18/2012	A Sand	15878720.9	1368414.6	4780.4	NAD 27
ACTIVE	Nichols Ranch	N1A-086	Class III	9/7/2012	A Sand	15878682.4	1368272.1	4803.2	NAD 27
ACTIVE	Nichols Ranch	N1A-098	Class III	5/18/2012	A Sand	15878350.7	1368358.2	4817.5	NAD 27
ACTIVE	Nichols Ranch	N1B-003	Class III	5/3/2012	A Sand	15878442.0	1368645.7	4814.5	NAD 27

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ACTIVE	Nichols Ranch	N1B-006-1	Class III	5/4/2012	A Sand	15878681.2	1368650.4	4807.7	NAD 27
ACTIVE	Nichols Ranch	N1B-009-1	Class III	8/6/2012	A Sand	15878374.8	1368931.9	4838.8	NAD 27
ACTIVE	Nichols Ranch	N1B-010	Class III	8/6/2012	A Sand	15878420.7	1368917.0	4835.7	NAD 27
ACTIVE	Nichols Ranch	N1B-012	Class III	5/3/2012	A Sand	15878649.3	1368689.1	4812.7	NAD 27
ACTIVE	Nichols Ranch	N1B-018	Class III	5/3/2012	A Sand	15878564.8	1368692.0	4817.8	NAD 27
ACTIVE	Nichols Ranch	N1B-020	Class III	8/3/2012	A Sand	15878621.5	1368649.2	4813.0	NAD 27
ACTIVE	Nichols Ranch	N1B-024	Class III	7/2/2012	A Sand	15878607.5	1368734.6	4818.8	NAD 27
ACTIVE	Nichols Ranch	N1B-027	Class III	7/2/2012	A Sand	15878667.8	1368650.4	4809.3	NAD 27
ACTIVE	Nichols Ranch	N1B-030	Class III	7/18/2012	A Sand	15878520.3	1368725.0	4822.7	NAD 27
ACTIVE	Nichols Ranch	N1B-031	Class III	7/3/2012	A Sand	15878535.6	1368648.5	4815.3	NAD 27
ACTIVE	Nichols Ranch	N1B-032	Class III	7/31/2012	A Sand	15878648.4	1368763.1	4817.9	NAD 27
ACTIVE	Nichols Ranch	N1B-034	Class III	8/1/2012	A Sand	15878465.4	1368782.4	4829.4	NAD 27
ACTIVE	Nichols Ranch	N1B-035	Class III	8/30/2012	A Sand	15878445.6	1368724.4	4822.3	NAD 27
ACTIVE	Nichols Ranch	N1B-037-1	Class III	8/10/2012	A Sand	15878367.0	1368734.9	4823.0	NAD 27
ACTIVE	Nichols Ranch	N1B-038	Class III	9/17/2012	A Sand	15878428.0	1368839.8	4834.6	NAD 27
ACTIVE	Nichols Ranch	N1B-039	Class III	7/27/2012	A Sand	15878470.8	1368884.0	4834.7	NAD 27
ACTIVE	Nichols Ranch	N1B-040	Class III	7/27/2012	A Sand	15878391.4	1368787.7	4829.0	NAD 27
ACTIVE	Nichols Ranch	N1B-041	Class III	7/30/2012	A Sand	15878561.2	1368769.0	4823.9	NAD 27
ACTIVE	Nichols Ranch	N1B-043	Class III	9/20/2012	A Sand	15878319.2	1368984.9	4839.0	NAD 27
ACTIVE	Nichols Ranch	N1B-044	Class III	9/25/2012	A Sand	15878432.1	1368966.3	4830.3	NAD 27
ACTIVE	Nichols Ranch	N1B-045	Class III	8/9/2012	A Sand	15878512.5	1368823.8	4831.1	NAD 27
ACTIVE	Nichols Ranch	N1B-046	Class III	8/2/2012	A Sand	15878340.8	1368820.4	4833.3	NAD 27
ACTIVE	Nichols Ranch	N1B-047	Class III	7/10/2012	A Sand	15878508.2	1368723.7	4823.1	NAD 27
ACTIVE	Nichols Ranch	N1B-049	Class III	8/1/2012	A Sand	15878462.5	1368875.9	4835.6	NAD 27
ACTIVE	Nichols Ranch	N1B-050	Class III	8/3/2012	A Sand	15878411.5	1368693.4	4819.1	NAD 27
ACTIVE	Nichols Ranch	N1B-051	Class III	7/30/2012	A Sand	15878549.6	1368766.6	4824.5	NAD 27
ACTIVE	Nichols Ranch	N1B-053	Class III	8/30/2012	A Sand	15878453.5	1368732.9	4822.9	NAD 27
ACTIVE	Nichols Ranch	N1B-054	Class III	8/1/2012	A Sand	15878501.1	1368824.2	4831.5	NAD 27
ACTIVE	Nichols Ranch	N1B-056	Class III	8/3/2012	A Sand	15878466.8	1368770.2	4828.3	NAD 27
ACTIVE	Nichols Ranch	N1B-057	Class III	7/26/2012	A Sand	15878377.9	1368732.7	4823.5	NAD 27
ACTIVE	Nichols Ranch	N1B-059	Class III	8/27/2012	A Sand	15878321.8	1368753.4	4827.4	NAD 27
ACTIVE	Nichols Ranch	N1B-060	Class III	9/21/2012	A Sand	15878241.0	1368918.6	4844.3	NAD 27

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ACTIVE	Nichols Ranch	N1B-061	Class III	8/31/2012	A Sand	15878291.3	1368855.3	4838.2	NAD 27
ACTIVE	Nichols Ranch	N1B-062	Class III	8/10/2012	A Sand	15878512.9	1368735.1	4823.7	NAD 27
ACTIVE	Nichols Ranch	N1B-063	Class III	8/14/2012	A Sand	15878406.5	1368745.9	4825.0	NAD 27
ACTIVE	Nichols Ranch	N1B-064	Class III	8/2/2012	A Sand	15878439.4	1368838.4	4833.5	NAD 27
ACTIVE	Nichols Ranch	N1B-065	Class III	8/10/2012	A Sand	15878495.6	1368909.0	4827.3	NAD 27
ACTIVE	Nichols Ranch	N1B-066	Class III	8/13/2012	A Sand	15878475.6	1368777.8	4828.8	NAD 27
ACTIVE	Nichols Ranch	N1B-067	Class III	9/5/2012	A Sand	15878466.3	1368722.4	4823.1	NAD 27
ACTIVE	Nichols Ranch	N1B-068	Class III	9/10/2012	A Sand	15878511.7	1368791.9	4828.8	NAD 27
ACTIVE	Nichols Ranch	N1B-069	Class III	8/31/2012	A Sand	15878344.1	1368810.3	4832.6	NAD 27
ACTIVE	Nichols Ranch	N1B-072	Class III	9/20/2012	A Sand	15878329.2	1368985.2	4838.4	NAD 27
ACTIVE	Nichols Ranch	N1B-074	Class III	9/11/2012	A Sand	15878365.7	1368925.1	4839.7	NAD 27
ACTIVE	Nichols Ranch	N1B-075	Class III	9/5/2012	A Sand	15878351.6	1368817.8	4833.4	NAD 27
ACTIVE	Nichols Ranch	N1B-077	Class III	9/20/2012	A Sand	15878274.3	1368793.3	4832.4	NAD 27
ACTIVE	Nichols Ranch	N1B-082	Class III	9/21/2012	A Sand	15878389.7	1368870.9	4836.5	NAD 27
ACTIVE	Nichols Ranch	N1B-083	Class III	9/10/2012	A Sand	15878394.2	1368774.7	4828.1	NAD 27
ACTIVE	Nichols Ranch	MON-01	Monitor	1/5/2012	B Sand	15878525.0	1368322.0	4807.9	NAD 27
ACTIVE	Nichols Ranch	MON-02	Monitor	1/5/2012	B Sand	15878677.0	1368680.0	4809.5	NAD 27
ACTIVE	Nichols Ranch	MON-04	Monitor	1/24/2012	B Sand	15877987.0	1369622.0	4848.4	NAD 27
ACTIVE	Nichols Ranch	MON-03	Monitor	12/22/2009	B Sand	15878200.0	1368956.0	4847.4	NAD 27
ACTIVE	Nichols Ranch	MON-05	Monitor	1/27/2012	B Sand	15877649.0	1370069.0	4803.5	NAD 27
ACTIVE	Nichols Ranch	MON-06	Monitor	1/18/2012	B Sand	15876939.0	1370093.0	4821.8	NAD 27
ACTIVE	Nichols Ranch	MON-07	Monitor	1/17/2012	B Sand	15877215.0	1370399.0	4852.6	NAD 27
ACTIVE	Nichols Ranch	MON-08	Monitor	10/21/2011	B Sand	15876860.0	1370678.0	4808.1	NAD 27
ACTIVE	Nichols Ranch	MON-09	Monitor	10/19/2011	B Sand	15876070.0	1370915.0	4755.3	NAD 27
ACTIVE	Nichols Ranch	MON-10	Monitor	10/10/2011	B Sand	15876123.0	1371445.0	4764.4	NAD 27
ACTIVE	Nichols Ranch	MON-11	Monitor	9/26/2011	B Sand	15875528.0	1371614.0	4767.7	NAD 27
ACTIVE	Nichols Ranch	MON-12	Monitor	9/23/2011	B Sand	15875440.0	1371980.0	4737.5	NAD 27
ACTIVE	Nichols Ranch	MON-13	Monitor	10/11/2011	B Sand	15874956.0	1372219.0	4712.8	NAD 27
ACTIVE	Nichols Ranch	MPN-01.1	Monitor	2/6/2012	A Sand	15878559.0	1368361.0	4800.5	NAD 27
ACTIVE	Nichols Ranch	MPN-02.1	Monitor	2/1/2012	A Sand	15878694.0	1368637.0	4804.3	NAD 27
ACTIVE	Nichols Ranch	MPN-03	Monitor	3/12/2010	A Sand	15878143.0	1368963.0	4852.8	NAD 27
ACTIVE	Nichols Ranch	MPN-04	Monitor	1/26/2012	A Sand	15877975.0	1369583.0	4843.5	NAD 27

Well Completion Details
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Status	Mine Name	Well Name	Well Type	Completion Date	Geologic Unit Name	NORTHING (UTM 13 Survey Feet)	EASTING (UTM 13 Survey Feet)	Top of Casing ELEV (Ft.)	Datum
ACTIVE	Nichols Ranch	MPN-05	Monitor	1/13/2012	A Sand	15877650.0	1370100.5	4806.0	NAD 27
ACTIVE	Nichols Ranch	MPN-06	Monitor	1/30/2012	A Sand	15876941.0	1370159.0	4830.8	NAD 27
ACTIVE	Nichols Ranch	MPN-07	Monitor	1/19/2012	A Sand	15877162.0	1370421.0	4850.6	NAD 27
ACTIVE	Nichols Ranch	MPN-08	Monitor	11/23/2011	A Sand	15876850.0	1370709.0	4806.8	NAD 27
ACTIVE	Nichols Ranch	MPN-09	Monitor	10/19/2011	A Sand	15876112.0	1370907.0	4755.3	NAD 27
ACTIVE	Nichols Ranch	MPN-10	Monitor	10/12/2011	A Sand	15876150.0	1371446.0	4764.4	NAD 27
ACTIVE	Nichols Ranch	MPN-11	Monitor	9/27/2011	A Sand	15875563.0	1371553.0	4768.3	NAD 27
ACTIVE	Nichols Ranch	MPN-12	Monitor	10/7/2011	A Sand	15875509.0	1371973.0	4742.0	NAD 27
ACTIVE	Nichols Ranch	MPN-13	Monitor	1/9/2011	A Sand	15874981.0	1372176.0	4714.8	NAD 27
ACTIVE	Nichols Ranch	MRN-01	Monitor	12/16/2011	A Sand	15879441.0	1368253.0	4776.3	NAD 27
ACTIVE	Nichols Ranch	MRN-02.2	Monitor	1/9/2012	A Sand	15879364.0	1368730.0	4817.2	NAD 27
ACTIVE	Nichols Ranch	MRN-03.2	Monitor	1/9/2012	A Sand	15879055.0	1369110.0	4845.8	NAD 27
ACTIVE	Nichols Ranch	MRN-04	Monitor	12/2/2011	A Sand	15878744.0	1369485.0	4851.3	NAD 27
ACTIVE	Nichols Ranch	MRN-05	Monitor	12/20/2011	A Sand	15878445.0	1369871.0	4862.7	NAD 27
ACTIVE	Nichols Ranch	MRN-06	Monitor	12/13/2011	A Sand	15878243.0	1370314.0	4833.2	NAD 27
ACTIVE	Nichols Ranch	MRN-07	Monitor	12/15/2011	A Sand	15877880.0	1370644.0	4824.2	NAD 27
ACTIVE	Nichols Ranch	MRN-08	Monitor	10/13/2011	A Sand	15877521.0	1370974.0	4814.6	NAD 27
ACTIVE	Nichols Ranch	MRN-09	Monitor	10/12/2011	A Sand	15877261.3	1371335.4	4800.0	NAD 27
ACTIVE	Nichols Ranch	MRN-10	Monitor	10/12/2011	A Sand	15876769.0	1371508.0	4773.6	NAD 27
ACTIVE	Nichols Ranch	MRN-11	Monitor	10/12/2011	A Sand	15876468.0	1371881.0	4787.4	NAD 27
ACTIVE	Nichols Ranch	MRN-12	Monitor	10/10/2011	A Sand	15876025.0	1372145.0	4766.9	NAD 27
ACTIVE	Nichols Ranch	MRN-13	Monitor	9/23/2011	A Sand	15875654.0	1372461.0	4739.3	NAD 27
ACTIVE	Nichols Ranch	MRN-14	Monitor	9/20/2011	A Sand	15875306.0	1372810.0	4723.8	NAD 27
ACTIVE	Nichols Ranch	MRN-15	Monitor	10/21/2011	A Sand	15874821.0	1372821.0	4714.7	NAD 27
ACTIVE	Nichols Ranch	MRN-16	Monitor	10/24/2011	A Sand	15874372.0	1372830.0	4705.3	NAD 27
ACTIVE	Nichols Ranch	MRN-17	Monitor	10/24/2011	A Sand	15874166.0	1372456.0	4696.0	NAD 27
ACTIVE	Nichols Ranch	MRN-18.1	Monitor	11/18/2011	A Sand	15874381.0	1372097.0	4692.2	NAD 27
ACTIVE	Nichols Ranch	MRN-20.1	Monitor	10/26/2011	A Sand	15874668.0	1371792.0	4712.2	NAD 27
ACTIVE	Nichols Ranch	MRN-21	Monitor	9/12/2011	A Sand	15874817.0	1371344.0	4745.6	NAD 27
ACTIVE	Nichols Ranch	MRN-22	Monitor	9/12/2011	A Sand	15875269.0	1371163.0	4739.3	NAD 27
ACTIVE	Nichols Ranch	MRN-23	Monitor	8/24/2011	A Sand	15875658.0	1370872.0	4719.5	NAD 27
ACTIVE	Nichols Ranch	MRN-24	Monitor	10/13/2011	A Sand	15875862.0	1370441.0	4762.7	NAD 27

TABLE 3
Well Completion Details
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Status	Mine Name	Well Name	Well Type	Completion Date	Geologic Unit Name	NORTHING (UTM 13 Survey Feet)	EASTING (UTM 13 Survey Feet)	Top of Casing ELEV (Ft.)	Datum
ACTIVE	Nichols Ranch	MRN-25	Monitor	10/13/2011	A Sand	15876272.0	1370170.0	4810.6	NAD 27
ACTIVE	Nichols Ranch	MRN-26	Monitor	10/19/2011	A Sand	15876743.0	1369725.0	4780.4	NAD 27
ACTIVE	Nichols Ranch	MRN-27	Monitor	12/29/2011	A Sand	15876913.0	1369513.0	4766.6	NAD 27
ACTIVE	Nichols Ranch	MRN-28	Monitor	12/27/2011	A Sand	15877220.0	1369275.0	4802.5	NAD 27
ACTIVE	Nichols Ranch	MRN-29	Monitor	11/11/2011	A Sand	15877529.0	1368957.0	4820.5	NAD 27
ACTIVE	Nichols Ranch	MRN-30	Monitor	12/27/2011	A Sand	15877735.0	1368512.0	4882.9	NAD 27
ACTIVE	Nichols Ranch	MRN-31	Monitor	12/29/2011	A Sand	15877906.0	1368049.0	4838.7	NAD 27
ACTIVE	Nichols Ranch	MRN-32	Monitor	12/20/2011	A Sand	15878267.0	1367727.0	4810.1	NAD 27
ACTIVE	Nichols Ranch	MRN-33	Monitor	12/28/2011	A Sand	15878757.0	1367688.0	4834.4	NAD 27
ACTIVE	Nichols Ranch	MRN-34.2	Monitor	1/13/2012	A Sand	15879230.0	1367828.0	4787.7	NAD 27
ACTIVE	Nichols Ranch	MUN-01.1	Monitor	2/2/2012	1 Sand	15875514.0	1368390.0	4801.5	NAD 27
ACTIVE	Nichols Ranch	MUN-02	Monitor	1/12/2012	1 Sand	15878725.0	1368681.0	4805.4	NAD 27
ACTIVE	Nichols Ranch	MUN-03	Monitor	1/13/2012	1 Sand	15878166.0	1368932.0	4848.6	NAD 27
ACTIVE	Nichols Ranch	MUN-04	Monitor	1/10/2012	1 Sand	15878059.0	1369577.9	4841.0	NAD 27
ACTIVE	Nichols Ranch	MUN-05.1	Monitor	2/10/2012	1 Sand	15877567.0	1370083.0	4800.1	NAD 27
ACTIVE	Nichols Ranch	MUN-06	Monitor	1/30/2012	1 Sand	15876972.0	1370126.0	4820.7	NAD 27
ACTIVE	Nichols Ranch	MUN-07	Monitor	1/19/2012	1 Sand	15877203.0	1370466.0	4849.7	NAD 27
ACTIVE	Nichols Ranch	MUN-08	Monitor	10/31/2011	1 Sand	15876816.0	1370653.0	4802.4	NAD 27
ACTIVE	Nichols Ranch	MUN-09	Monitor	10/21/2011	1 Sand	15876095.0	1370949.0	4749.4	NAD 27
2013									
ACTIVE	Nichols Ranch	N1B-015-1	Class III	10/1/2012	A sand	15878383	1368985	4833	NAD 27
ACTIVE	Nichols Ranch	N1B-033	Class III	11/15/2012	A sand	15878469	1368688	4819	NAD 27
ACTIVE	Nichols Ranch	N1B-048	Class III	11/9/2012	A sand	15878321	1369051	4835	NAD 27
ACTIVE	Nichols Ranch	N1B-052	Class III	10/3/2012	A sand	15878254	1368981	4845	NAD 27
ACTIVE	Nichols Ranch	N1B-055	Class III	10/30/2012	A sand	15878261	1369045	4841	NAD 27
ACTIVE	Nichols Ranch	N1B-058	Class III	10/17/2012	A sand	15878366	1369033	4831	NAD 27
ACTIVE	Nichols Ranch	N1B-070	Class III	10/19/2012	A sand	15878372	1369023	4832	NAD 27
ACTIVE	Nichols Ranch	N1B-071	Class III	10/2/2012	A sand	15878424	1369027	4827	NAD 27
ACTIVE	Nichols Ranch	N1B-073-2	Class III	11/7/2012	A sand	15878419	1368779	4829	NAD 27
ACTIVE	Nichols Ranch	N1B-076	Class III	10/10/2012	A sand	15878471	1368999	4825	NAD 27
ACTIVE	Nichols Ranch	N1B-078	Class III	10/23/2012	A sand	15878433	1369091	4830	NAD 27
ACTIVE	Nichols Ranch	N1B-079	Class III	10/8/2012	A sand	15878231	1368850	4840	NAD 27

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Status	Mine Name	Well Name	Well Type	Completion Date	Geologic Unit Name	NORTHING (UTM 13 Survey Feet)	EASTING (UTM 13 Survey Feet)	Top of Casing ELEV (Ft.)	Datum
ACTIVE	Nichols Ranch	N1B-080	Class III	1/21/2013	A sand	15878257	1369112	4844	NAD 27
ACTIVE	Nichols Ranch	N1B-081	Class III	10/9/2012	A sand	15878232	1368910	4845	NAD 27
ACTIVE	Nichols Ranch	N1B-084	Class III	10/9/2012	A sand	15878478	1369058	4827	NAD 27
ACTIVE	Nichols Ranch	N1B-085	Class III	10/10/2012	A sand	15878511	1368971	4822	NAD 27
ACTIVE	Nichols Ranch	N1B-086	Class III	10/17/2012	A sand	15878432	1368830	4834	NAD 27
ACTIVE	Nichols Ranch	N1B-087	Class III	1/21/2013	A sand	15878312	1369109	4839	NAD 27
ACTIVE	Nichols Ranch	N1B-088	Class III	10/29/2012	A sand	15878369	1369108	4835	NAD 27
ACTIVE	Nichols Ranch	N1B-089	Class III	11/6/2012	A sand	15878245	1369113	4844	NAD 27
ACTIVE	Nichols Ranch	N1B-090	Class III	11/12/2012	A sand	15878301	1369226	4848	NAD 27
ACTIVE	Nichols Ranch	N1B-091	Class III	10/19/2012	A sand	15878398	1369070	4830	NAD 27
ACTIVE	Nichols Ranch	N1B-092	Class III	12/15/2012	A sand	15878229	1369076	4844	NAD 27
ACTIVE	Nichols Ranch	N1B-093	Class III	10/29/2012	A sand	15878313	1369098	4839	NAD 27
ACTIVE	Nichols Ranch	N1B-094	Class III	3/5/2013	A sand	15878271	1369171	4846	NAD 27
ACTIVE	Nichols Ranch	N1B-095	Class III	11/12/2012	A sand	15878209	1369172	4847	NAD 27
ACTIVE	Nichols Ranch	N1B-096	Class III	10/29/2012	A sand	15878309	1369061	4836	NAD 27
ACTIVE	Nichols Ranch	N1B-097	Class III	11/1/2012	A sand	15878334	1369165	4842	NAD 27
ACTIVE	Nichols Ranch	N1B-098	Class III	11/20/2012	A sand	15878226	1369246	4848	NAD 27
ACTIVE	Nichols Ranch	N1B-099	Class III	11/2/2012	A sand	15878325	1369232	4848	NAD 27
ACTIVE	Nichols Ranch	N1B-100	Class III	3/5/2013	A sand	15878293	1369172	4846	NAD 27
ACTIVE	Nichols Ranch	N1B-101	Class III	11/12/2012	A sand	15878250	1369193	4848	NAD 27
ACTIVE	Nichols Ranch	N1B-102	Class III	11/19/2012	A sand	15878250	1369264	4849	NAD 27
ACTIVE	Nichols Ranch	N1C-008	Class III	3/15/2013	A sand	15878127	1369120	4848	NAD 27
ACTIVE	Nichols Ranch	N1C-010	Class III	1/29/2013	A sand	15878133	1369029	4857	NAD 27
ACTIVE	Nichols Ranch	N1C-011	Class III	11/19/2012	A sand	15878169	1369256	4848	NAD 27
ACTIVE	Nichols Ranch	N1C-012	Class III	3/20/2013	A sand	15878064	1369050	4857	NAD 27
ACTIVE	Nichols Ranch	N1C-013	Class III	1/29/2013	A sand	15878134	1369373	4868	NAD 27
ACTIVE	Nichols Ranch	N1C-014	Class III	1/21/2013	A sand	15878037	1368942	4857	NAD 27
ACTIVE	Nichols Ranch	N1C-015	Class III	1/17/2013	A sand	15878109	1368905	4853	NAD 27
ACTIVE	Nichols Ranch	N1C-016	Class III	2/4/2013	A sand	15878161	1369427	4849	NAD 27
ACTIVE	Nichols Ranch	N1C-017	Class III	1/24/2013	A sand	15878186	1369359	4854	NAD 27
ACTIVE	Nichols Ranch	N1C-018	Class III	1/18/2013	A sand	15878161	1368970	4853	NAD 27
ACTIVE	Nichols Ranch	N1C-019	Class III	1/29/2013	A sand	15878140	1369312	4852	NAD 27

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Status	Mine Name	Well Name	Well Type	Completion Date	Geologic Unit Name	NORTHING (UTM 13 Survey Feet)	EASTING (UTM 13 Survey Feet)	Top of Casing ELEV (Ft.)	Datum
ACTIVE	Nichols Ranch	N1C-020	Class III	1/16/2013	A sand	15878122	1368967	4856	NAD 27
ACTIVE	Nichols Ranch	N1C-021	Class III	1/17/2013	A sand	15878089	1368943	4857	NAD 27
ACTIVE	Nichols Ranch	N1C-023	Class III	1/22/2013	A sand	15878001	1369023	4860	NAD 27
ACTIVE	Nichols Ranch	N1C-025	Class III	3/19/2013	A sand	15878090	1369440	4843	NAD 27
ACTIVE	Nichols Ranch	N1C-027	Class III	3/15/2013	A sand	15877905	1369209	4831	NAD 27
ACTIVE	Nichols Ranch	N1C-031	Class III	3/8/2013	A sand	15877912	1369143	4842	NAD 27
ACTIVE	Nichols Ranch	N1C-033	Class III	3/19/2013	A sand	15877950	1368985	4865	NAD 27
ACTIVE	Nichols Ranch	N1C-034	Class III	3/15/2013	A sand	15878031	1369127	4849	NAD 27
ACTIVE	Nichols Ranch	N1C-035	Class III	3/6/2013	A sand	15877934	1369064	4851	NAD 27
ACTIVE	Nichols Ranch	N1B-029	Class III	1/3/2013	A sand	15878381	1368642	4814	NAD 27
ACTIVE	Nichols Ranch	N1C-006	Class III	1/17/2013	A sand	15878106	1368964	4857	NAD 27
ACTIVE	Nichols Ranch	N1C-003-1	Class III	2/4/2013	A sand	15878193	1368993	4849	NAD 27
ACTIVE	Nichols Ranch	N1C-002	Class III	1/22/2013	A sand	15878071	1368858	4848	NAD 27
ACTIVE	Nichols Ranch	N1C-005	Class III	10/8/2012	A sand	15878174	1368923	4849	NAD 27
ACTIVE	Nichols Ranch	N1C-007	Class III	11/16/2012	A sand	15878180	1369112	4847	NAD 27
ACTIVE	Nichols Ranch	N1B-103	Class III	11/29/2012	A sand	15878252	1369324	4874	NAD 27
ACTIVE	Nichols Ranch	N1C-009	Class III	11/30/2012	A sand	15878190	1369309	4856	NAD 27
ACTIVE	Nichols Ranch	N1A-095	Class III	2/21/2012	A sand	15878350	1368279	4824	NAD 27
ACTIVE	Nichols Ranch	N1A-005	Class III	3/30/2012	A sand	15878603	1368568	4807	NAD 27
ACTIVE	Nichols Ranch	N1B-002	Class III	3/30/2012	A sand	15878370	1368643	4815	NAD 27
ACTIVE	Nichols Ranch	N1A-070	Class III	6/14/2012	A sand	15878276	1368597	4812	NAD 27
ACTIVE	Nichols Ranch	N1A-081	Class III	6/14/2012	A sand	15878319	1368319	4824	NAD 27

TABLE 4
Plugged and Abandoned Wells
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Well ID	Location		Abandonment Date	Abandonment Reason	Abandonment Method	Well Depth (Ft)	Well Diameter (Inches)	Casing Volume (Gallons)	Cement Volume (Gallons)
	Northing	Easting							
N1B-037	1368725.13	15878368.28	10/18/2012	Failed MIT	Cement Grout	670	5	632	686
N1B-073.1	1368791.57	15878411.23	10/19/2012	Failed MIT	Cement Grout	670	5	646	686
N1C-003	1368977.82	15878193.25	3/7/2013	Failed MIT	Cement Grout	655	5	668	696
N1C-004	1369049.09	15878192.44	3/8/2013	Failed MIT	Cement Grout	660	5	673	706

TABLE 5
Surface Disturbance Reclamation
December 29, 2012 to December 28, 2013 Annual Report
Uranerz Permit to Mine 778

Mine Unit	Area Reclaimed/Stabilized (Road,Wellfield,Spill Area, ETC.)	Reclamation Type (Interim or Permanent)	Acres Reclaimed	Seed Used	Seed Applied (lbs/acre)	Seeding Dates
2012						
Nichols Ranch	Embankment around CPP	Interim	1.0	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	14	4/3/2012
	Fenceline at Drainage-Production Area 1	Interim	0.2	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	14	4/6/2012
	Utility Corridor (water/power line) between cement silo and CPP	Interim	0.9	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	14	5/8/2012
	Production Area 1 Monitor Wells	Interim	14	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	14	7/31/2012
	Main Trunkline - Production Area 1	Interim	5.0	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	14	10/29/2012
	25-yr flood event ditch - around facilities perimeter	Interim	0.4	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	14	10/29/2012
	Production Area 1 wellfield - Header House 1 & 2	Interim	7	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	14	10/29/2012
	Total Surface Acreage Reclaimed 2012			28.5		
2013						
Nichols Ranch	Remaining Main Trunkline - Production Area 1	Interim	3	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	14	1/9/2013
Total Surface Acreage Reclaimed 2013			3.0			
Total Surface Acreage Reclaimed			31.5			

TABLE 6
Abandoned Drill Holes
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Uranerz Permit to Mine 778

Hole ID	Abandonment Date	Abandonment Material	Hole Diameter (Inches)	Hole Depth (Ft)	Hole Volume (Gallons)	Cement Volume (Gallons)	Bentonite Chip Sacks
N273	10/12/2012	Cement	5.25	690	775	853	0
N274	12/13/2012	Cement	5.25	700	785	864	0
N275	12/5/2012	Cement	5.25	610	685	753	0
N282	8/27/2013	Plug Gel	8.63	664	2014	NA	0
N285	9/4/2013	Cement	5.25	320	359	398	0

Appendix B

Mechanical Integrity Test Results

4th Quarter 2012 MIT Report

**WDEQ - Quarterly Report/4th QTR 2012 -
MITs for Nichols Ranch Production**

Appendix A



#	Well Name	Date Tested	Casing Type	Bottom Casing (Top of Completion)	Duration (Minutes)	Lower_Pckr_Depth (Feet)	Initial_Pressure (Psi)	Final_Pressure (Psi)	Pressure_Loss (Net)	Next Test Date	Pass-Fail
1	N1A-095	2/21/2012	PVC	571	10	560	180	168	12	2/21/2017	PASS
2	N1A-005	3/30/2012	PVC	578	10	560	180	165	15	3/30/2017	PASS
3	N1B-002	3/30/2012	PVC	613	10	600	180	176	4	3/30/2017	PASS
4	N1A-070	6/14/2012	PVC	616	10	600	180	166	14	6/14/2017	PASS
5	N1A-081	6/14/2012	PVC	608	10	600	180	169	11	6/14/2017	PASS
6	N1B-015-1	10/1/2012	PVC	644	10	630	180	167	13	10/1/2017	PASS
7	N1B-071	10/2/2012	PVC	627	10	610	180	169	11	10/2/2017	PASS
8	N1B-052	10/3/2012	PVC	631	10	620	180	172	8	10/3/2017	PASS
9	N1C-005	10/8/2012	PVC	606	10	590	180	168	12	10/8/2017	PASS
10	N1B-079	10/8/2012	PVC	608	10	590	180	164	16	10/8/2017	PASS
11	N1B-084	10/9/2012	PVC	632	10	620	180	168	12	10/9/2017	PASS
12	N1B-081	10/9/2012	PVC	616	10	600	180	169	11	10/9/2017	PASS
13	N1C-003	10/9/2012	PVC	634	10	620	180	0	0	10/9/2017	FAIL
14	N1B-076	10/10/2012	PVC	629	10	610	180	172	8	10/10/2017	PASS
15	N1B-085	10/10/2012	PVC	629	10	610	180	164	16	10/10/2017	PASS
16	N1B-058	10/13/2012	PVC	622	10	610	180	170	10	10/13/2017	PASS
17	N1B-086	10/17/2012	PVC	600	10	590	180	165	15	10/17/2017	PASS
18	N1B-091	10/19/2012	PVC	616	10	600	180	166	14	10/19/2017	PASS
19	N1B-070	10/19/2012	PVC	643	10	630	180	167	13	10/19/2017	PASS
20	N1B-078	10/23/2012	PVC	633	10	620	180	168	12	10/23/2017	PASS
21	N1B-093	10/29/2012	PVC	630	10	620	180	170	10	10/29/2017	PASS
22	N1B-088	10/29/2012	PVC	639	10	620	180	173	7	10/29/2017	PASS
23	N1B-096	10/29/2012	PVC	647	10	630	180	166	14	10/29/2017	PASS
24	N1B-055	10/30/2012	PVC	627	10	610	180	167	13	10/30/2017	PASS

#	Well Name	Date Tested	Casing Type	Bottom Casing (Top of Completion)	Duration (Minutes)	Lower_Pckr_Depth (Feet)	Initial_Pressure (Psi)	Final_Pressure (Psi)	Pressure_Loss (Net)	Next Test Date	Pass-Fail
25	N1B-097	11/1/2012	PVC	648	10	630	180	166	14	11/1/2017	PASS
26	N1B-099	11/2/2012	PVC	650	10	640	180	172	8	11/2/2017	PASS
27	N1B-089	11/6/2012	PVC	633	10	590	180	174	6	11/6/2017	PASS
28	N1B-073-2	11/7/2012	PVC	639	10	620	180	169	11	11/7/2017	PASS
29	N1B-090	11/12/2012	PVC	640	10	630	180	170	10	11/12/2017	PASS
30	N1B-095	11/12/2012	PVC	637	10	620	180	168	12	11/12/2017	PASS
31	N1B-101	11/12/2012	PVC	639	10	620	180	171	9	11/12/2017	PASS
32	N1C-004	11/15/2012	PVC	627	10	610	180	0	0	11/15/2017	FAIL
33	N1B-033	11/15/2012	PVC	617	10	600	180	169	11	11/15/2017	PASS
34	N1C-007	11/16/2012	PVC	661	10	650	180	167	13	11/16/2017	PASS
35	N1B-102	11/19/2012	PVC	636	10	620	180	170	10	11/19/2017	PASS
36	N1C-011	11/19/2012	PVC	639	10	620	180	167	13	11/19/2017	PASS
37	N1B-048	11/19/2012	PVC	625	10	610	180	169	11	11/19/2017	PASS
38	N1B-098	11/20/2012	PVC	635	10	620	180	168	12	11/20/2017	PASS
39	N1B-092	12/5/2012	PVC	662	10	640	180	170	10	12/5/2017	PASS

Nichols Ranch ISR Project -4th Quarter 2012
M I T - W e l l S t a t u s
Monitor and Production Wells

Appendix B



#	Well Name	Date Tested	Well Status	Action Date	Well Depth (FT)	Well Diameter (Inches)	Casing Volume (Gallons)	Cement Volume Gallons	Comments
1	N1B-037	7/5/2012	Abandoned	10/18/12	670	5	632	686	
2	N1B-073.1	9/24/2012	Abandoned	10/19/12	670	5	646	686	

1st Quarter 2013 MIT Report

Appendix A

#	Well Name	Date Tested	Casing Type	Bottom Casing	Lower_Pckr_Depth	Initial_Pressure	Final_Pressure	Pressure_Loss	Next Test Date	Pass-Fail
1	N1B-029	1/3/2013	PVC	558	540	180	178	2	1/2/2018	PASS
2	N1C-020	1/16/2013	PVC	700	600	180	164	16	1/15/2018	PASS
3	N1C-015	1/17/2013	PVC	700	610	180	173	7	1/16/2018	PASS
4	N1C-006	1/17/2013	PVC	660	610	180	169	11	1/16/2018	PASS
5	N1C-021	1/17/2013	PVC	700	660	180	174	6	1/16/2018	PASS
6	N1C-018	1/18/2013	PVC	660	610	180	172	8	1/17/2018	PASS
7	N1C-014	1/21/2013	PVC	650	630	180	166	14	1/20/2018	PASS
8	N1B-087	1/21/2013	PVC	680	620	180	171	9	1/20/2018	PASS
9	N1B-080	1/21/2013	PVC	680	630	180	169	11	1/20/2018	PASS
10	N1C-023	1/22/2013	PVC	670	630	180	169	11	1/21/2018	PASS
11	N1C-002	1/22/2013	PVC	695	660	180	166	14	1/21/2018	PASS
12	N1C-017	1/24/2013	PVC	690	630	180	174	6	1/23/2018	PASS
13	N1C-010	1/29/2013	PVC	691	660	180	166	14	1/28/2018	PASS
14	N1C-013	1/29/2013	PVC	685	620	180	167	13	1/28/2018	PASS
15	N1C-019	1/29/2013	PVC	685	640	180	167	13	1/28/2018	PASS
16	N1C-003-1	2/4/2013	PVC	634	620	180	164	16	2/3/2018	PASS
17	N1C-016	2/4/2013	PVC	680	620	180	168	12	2/3/2018	PASS
18	N1B-100	3/5/2013	PVC	670	620	180	165	15	3/4/2018	PASS
19	N1B-094	3/5/2013	PVC	680	630	180	175	5	3/4/2018	PASS
20	N1C-035	3/6/2013	PVC	690	670	180	168	12	3/5/2018	PASS
21	N1C-031	3/8/2013	PVC	685	630	180	175	5	3/7/2018	PASS
22	N1C-008	3/15/2013	PVC	690	590	180	175	5	3/14/2018	PASS
23	N1C-034	3/15/2013	PVC	690	660	180	165	15	3/14/2018	PASS
24	N1C-027	3/15/2013	PVC	650	620	180	172	8	3/14/2018	PASS
25	N1C-025	3/19/2013	PVC	660	620	180	169	11	3/18/2018	PASS
26	N1C-033	3/19/2013	PVC	675	620	180	171	9	3/18/2018	PASS
27	N1C-012	3/20/2013	PVC	690	640	180	165	15	3/19/2018	PASS

Appendix A

#	Well Name	Date Tested	Casing Type	Bottom Casing	Lower_Pckr_Depth	Initial_Pressure	Final_Pressure	Pressure_Loss	Next Test Date	Pass-Fail
1	N1B-103	11/29/2012	PVC	645	630	180	177	3	11/28/2017	PASS
2	N1C-009	11/30/2012	PVC	645	630	180	176	4	11/29/2017	PASS

Nichols Ranch ISR Project -1st Quarter 2013
MIT - Well Status
Monitor and Production Wells

Appendix B



#	Well Name	Date Tested	Well Status	Action Date	Well Depth	Well Diameter (Inches)	Casing Volume	Cement Volume Gallons	Comments
1	N1C-003	10/9/2012	Abandoned	3/7/13	655	5	668	696	
2	N1C-004	11/15/2012	Abandoned	3/8/13	660	5	673	706	

Appendix C

Monitoring Data

Appendix A
Livestock and Domestic Wells Within 2 Kilometers
Water Quality Analysis
January-June 2013 Semi-Annual Report

Sample Location	Sample Date	Uranium-Natural (Total)		Radium 226			Alkalinity (mg/L)	Conductivity (umhos/cm)	Chloride (mg/L)
		Concentration (mg/L)	Reporting Limit (mg/L)	Concentration (pCi/L)	Precision (±) (pCi/l)	MDC or RL (pCi/L)			
Hank Unit									
North Dry Willow*	19 Jun 13	0.0861	0.0003	3.7	0.39	0.17	131	2150	9
Dry Willow #1	5 Feb 13	0.0026	0.0003	53	1.0	0.14	121	1190	3
Brown - F	5 Feb 13	0.0004	0.0003	1.3	0.19	0.15	146	475	4
Brown - WS*	19 Jun 13	0.0094	0.0003	0.30	.015	0.18	79	1150	5
Means #1*	19 Jun 13	0.284	0.0003	0.84	0.21	0.18	102	1610	4
Paden #1*	19 Jun 13	0.606	0.0003	4.9	.045	0.17	119	2070	8
Red Springs Artesian	4 Feb 13	0.0738	0.0003	0.30	0.08	0.09	514	3880	13
Doble Hill Well #1	Not Sampled, Dry Well								
Connie #2	Not Sampled, Dry Well								
Nichols Ranch Unit									
DW-4L	6 Feb 13	ND	0.0003	0.33	0.12	0.14	111	612	9
DW-4M	10 Jan 13	ND	0.0003	0.29	0.22	0.30	238	1090	11
DW-4U	10 Jan 13	0.0767	0.0003	0.48	0.25	0.30	123	1470	5
Nichols #1	9 Jan 13	0.0289	0.0003	-0.2	0.10	0.26	139	496	6
Pats #1	30 Jan 13	0.0450	0.0003	0.24	0.13	0.17	134	610	6
Pug #2	9 Jan 13	ND	0.0003	0.10	0.17	0.27	248	498	3
Brown 21-6	29 Jan 13	ND	0.0003	-0.02	0.1	.019	155	414	6
Dry Fork #3	Not Sampled, Dry Well								
Pug #1	Not Sampled, Dry Well								

Notes:

ND =Not Detected at the Reporting Limit

MDC = Minimum Detectable Concentration

RL = Reporting Limit

*At the end of September 2012 the Landowner shut down the wells.

Appendix B
Uranerz Surface Water
Water Quality Analysis
January - June 2013 Semi-Annual Report

Sample Location	Sample Date	Uranium-Natural (Total)		Radium 226			Lead 210			Thorium 230		
		Concentration (mg/L)	Reporting Limit (mg/L)	Concentration (pCi/L)	Precision (±) (pCi/L)	MDC or RL (pCi/L)	Concentration (pCi/L)	Precision (±) (pCi/L)	MDC or RL (pCi/L)	Concentration (pCi/L)	Precision (±) (pCi/L)	MDC or RL (pCi/L)
NRSSW (Cottonwood D Nichols)	NA	No water present to sample										
NRSSE (Cottonwood U Nichols)	N/A	No water present to sample										
Dry Willow Reservoir	N/A	No water present to sample										
Brown Water Pond	N/A	No water present to sample										
HSS (Dry Willow Creek)	NA	No water present to sample										

Notes:

ND =Not Detected at the Reporting Limit

MDC = Minimum Detectable Concentration

RL = Reporting Limit

Appendix D

Wildlife Survey Report

**WILDLIFE MONITORING REPORT
FOR 2012-2013 ANNUAL REPORT PERIOD**

Prepared for
Uranerz Energy Corporation

By
**TRC Environmental Corporation
Laramie, Wyoming
TRC Project 51825/112362**

November 2013

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A.1.0 INTRODUCTION

During the annual report period, Uranerz Energy Corporation (Uranerz) retained TRC Environmental Corporation to continue the wildlife monitoring program specified in the Wyoming DEQ Permit 778 Mine Plan. This annual report includes the results of the 2013 raptor nest survey and greater sage-grouse lek surveys.

A.2.0 2013 SURVEY METHODS

A.2.1 Raptor Nest Survey

A total of 71 nests within the permit area and a 0.5-mi buffer were located and surveyed by biologists from Wildlife Resources, LLC., of Big Horn from April 28 through June 21, 2013. Suitable habitats (e.g., cliffs, riparian areas) were searched a minimum of three times using binoculars and/or spotting scopes to locate nest structures, whitewash, or any other indicator of past or present raptor nesting (e.g., defensive or incubating raptors, the presence of juvenile raptors, repeated observations of raptors in the same general area). These surveys followed the protocol outlined in Appendix B of the Wyoming DEQ Coal Regulations. When a nest could not be looked into, the nest was classified as active if at least one adult was observed defending the nest. If no sign of occupancy was evident, the area below and around the nest was checked for signs of recent activity (mute, pellets, feathers, prey remains, or young) in an attempt to verify occupancy. In addition, black-tailed prairie dog towns within the permit area and a 0.5-mi buffer were searched using binoculars and/or spotting scopes to locate burrowing owl nest locations. Most areas of the prairie dog towns were searched by traversing the towns and examining burrows for whitewash or other sign of activity.

A.2.2 Greater Sage-grouse Lek Surveys

Eleven known greater sage-grouse leks or satellite leks within 2.0 mi of the Nichols Ranch ISR project area were searched for activity between April 4 and May 1, 2013, in accordance with the approved wildlife monitoring plan. None of these leks are located within either the Nichols

Ranch or Hank Unit boundaries. Biologists drove to the area and used binoculars and/or spotting scopes to locate the lek area and to count the peak number of male and female greater sage-grouse present during each survey. Three lek searches were conducted at each lek, and surveys were conducted from as close to sunrise as possible to 0.5 hour after sunrise.

A.3.0 2013 RESULTS

A.3.1 Raptor Nest Survey

A total of 71 nests within the search area were surveyed by biologists from Wildlife Resources, LLC., of Big Horn, Wyoming, during the spring of 2013, and two nests were determined to be active. Active nests included one prairie falcon aerie (nest number 13019) in Hank Unit survey area and a golden eagle nest (nest number 5495) in the Nichols Ranch survey area. The remaining nests were inactive. Production in the prairie falcon aerie could not be determined because biologists could not see into the nesting area. Two golden eagle eaglets were observed at the golden eagle nest on June 21, 2013, and were assumed to have fledged. The locations and status of these nests are described in Table A.1 and illustrated on Exhibit A.1. Fifteen more nest structures were located in 2013 compared to 2012. The increase in the number of nests was likely to increased familiarity of the field biologists with the project area.

A.3.2 Greater Sage-grouse Lek Surveys

Eleven leks were surveyed three times between April 4 and May 1, 2013, by biologists from Wildlife Resources, LLC., of Big Horn, Wyoming. However, three of the leks (Hines NW, Windmill NW, and Windmill Satellite) were active in 2013 and had any male attendance. These three leks are located closest to the Hank Unit. The remaining eight leks were inactive. The Hines NW lek had a peak male attendance of two birds. The Windmill NW lek had a peak male attendance of one bird and the Windmill Satellite lek had a peak male attendance of five birds. The locations of the leks and additional lek data are illustrated on Exhibit A.1 and presented in Table A.2, respectively.

Table A.1 Locations and Activity Status of Raptor Nests, Nichols Ranch ISR Project, 2013.

UNIT	Species	WLR/BLM ID	Twn	Rng	Sec, q/q	Eastng	Northing	Datum	County	Date	Status 2013	Production	Condition	Sub/Ht	Nest/Ht
Hank Unit	PRFA	13019	43	75	5, NW/NW	427354	4843011	83	Campbell	5/8/2013	ACTI	Cannot see into nest.		CLF	
Nichols Ranch Unit	GOEA	5495	43	76	21, NE/NW	413454	4837968	83	Campbell	5/2/2013	ACTI	2 Class II young	GOOD	CTI/50'	Sticks/35'
Nichols Ranch Unit	BBMA	11946	43	76	20, NE/SE	418676	4837265	83	Campbell	5/2/2013	DNLO		POOR	CTD	BBMA nest
Hank Unit	BBMA	4531	43	75	7, SE/NW	425852	4840885	83	Campbell	5/21/2013	INAC		BBMA	CTI/35'	Sticks/25'
Hank Unit	BBMA	5525	43	75	8, SW/SW	427216	4840197	83	Campbell	5/21/2013	INAC		BBMA	WIL/25'	Sticks/12'
Hank Unit	BBMA	12340	44	76	25, NE/NE	425109	4846310	83	Campbell	5/28/2013	INAC		FAIR	JUN	
Hank Unit	GOEA	4528	43	75	7, NW/NW	425405	4841428	83	Campbell	5/21/2013	INAC		GONE	Tree fell	Sticks/35'
Hank Unit	GRHO	3654	43	75	7, NE/NW	425810	4841363	83	Campbell	5/21/2013	INAC		CLF	CLF	Sticks/18'
Hank Unit	GRHO	3658	43	75	7, NW/NW	425538	4841443	83	Campbell	5/21/2013	INAC		GONE	CTI/40'	Sticks/35'
Hank Unit	GRHO	6517	43	75	8, NW/NW	426895	4841340	83	Campbell	5/21/2013	INAC		GONE	CTI/45'	Dirt/20'
Hank Unit	GRHO	4536	43	76	13, NE/NE	424825	4839733	83	Campbell	5/23/2013	INAC		POOR	CTI/45'	Sticks/30'
Hank Unit	LOOW	4101	43	76	1, NE/NE	425028	4842796	83	Campbell	5/21/2013	INAC		POOR	JUL/18'	Sticks/12'
Hank Unit	LOOW	4527	43	76	1, SE/NE	425162	4841951	83	Campbell	5/21/2013	INAC		GONE	JUL/16'	Sticks/12'
Hank Unit	LOOW	6518	43	75	30, NE/NE	426766	4840910	83	Campbell	5/21/2013	INAC		FAIR	JUL/15'	Sticks/10'
Hank Unit	LOOW	4106	44	75	30, NE/SW	425968	4845500	83	Campbell	5/28/2013	INAC		FAIR	JUL/15'	Sticks/8'
Hank Unit	PRFA	4102	44	75	32, SW/SW	427040	4843215	83	Campbell	5/8/2013	INAC		ROC	ROC	
Hank Unit	PRFA	4103	44	75	32, SW/SW	427130	4843380	83	Campbell	5/8/2013	INAC		ROC	ROC	
Hank Unit	RETA	3655	43	75	7, NW/NE	426126	4841173	83	Campbell	5/21/2013	INAC		GONE	Tree fell	Sticks/30'
Hank Unit	RETA	6534	43	75	8, SW/NW	426984	4840745	83	Campbell	5/21/2013	INAC		FAIR	CTI/50'	Sticks/40'
Hank Unit	RETA	6535	43	75	8, SW/NW	426940	4840760	83	Campbell	5/21/2013	INAC		GONE	CTD/10'	Sticks/10'
Hank Unit	TUVU	4098	44	76	36, NE/NE	425170	4844450	83	Campbell	5/28/2013	INAC		FAIR	CTI/50'	Sticks/40'
Hank Unit	UNRA	12893	44	75	32, SW/SW	427060	4843210	83	Campbell	5/8/2013	INAC		GOOD	Hole	Dirt
Hank Unit	UNRA	12844	43	75	5, NE/SE	427461	4842035	83	Campbell	5/8/2013	INAC		POOR	JUL/12'	Sticks/8'
Hank Unit	UNRA	13009	43	75	5, NE/SW	427465	4842089	83	Campbell	5/8/2013	INAC		GONE	JUL/15'	Sticks/12'
Hank Unit	UNRA	13010	43	75	5, NE/SW	427595	4842271	83	Campbell	5/8/2013	INAC		GONE	JUL/15'	Sticks/10'
Hank Unit	UNRA	13113	43	75	6, SE/NE	426826	4842568	83	Campbell	5/8/2013	INAC		FAIR	JUN/12'	Sticks/8'
Hank Unit	UNRA	4115	43	76	1, NW/SE	424626	4842237	83	Campbell	5/21/2013	INAC		POOR	JUL/12'	Sticks/7'
Hank Unit	UNRA	6521	43	75	8, NW/SW	427150	4840503	83	Campbell	5/21/2013	INAC		POOR	JUL/14'	Sticks/10'
Hank Unit	UNRA	6522	43	75	8, NW/SW	427191	4840479	83	Campbell	5/21/2013	INAC		POOR	CTI/35'	Sticks/25'
Hank Unit	UNRA	6523	43	75	8, NW/SW	427193	4840478	83	Campbell	5/21/2013	INAC		FAIR	JUL/18'	Sticks/10'
Hank Unit	UNRA	6524	43	75	8, NW/SW	427203	4840367	83	Campbell	5/21/2013	INAC		FAIR	JUL/15'	Sticks/10'
Hank Unit	UNRA	12800	43	75	7, SE/NE	426712	4840910	83	Campbell	5/21/2013	INAC		FAIR	JUL/25'	Sticks/20'
Hank Unit	UNRA	12902	43	75	6, NW/NW	425247	4842889	83	Campbell	5/21/2013	INAC		FAIR	CTI/40'	Sticks/20'
Hank Unit	UNRA	112-13	43	75	8, NW/SW	427209	4839955	83	Campbell	5/21/2013	INAC		GOOD	CTI/35'	Sticks/20'
Hank Unit	UNRA	113-13	43	75	8, NW/SW	427185	4840383	83	Campbell	5/21/2013	INAC		POOR	JUN/25'	Sticks/15'
Hank Unit	UNRA	114-13	43	75	8, NW/SW	427012	4840662	83	Campbell	5/21/2013	INAC		FAIR	JUN/15'	Sticks/10'
Hank Unit	UNRA	115-13	43	75	8, NW/SW	427004	4840672	83	Campbell	5/21/2013	INAC		FAIR	JUN/20'	Sticks/15'
Hank Unit	UNRA	116-13	43	75	8, NW/SW	427008	4840671	83	Campbell	5/21/2013	INAC		FAIR	JUN/20'	Sticks/15'
Hank Unit	UNRA	117-13	43	75	7, NE/NW	426029	4841226	83	Campbell	5/21/2013	INAC		FAIR	JUN/18'	Sticks/10'
Hank Unit	UNRA	118-13	43	75	7, NW/NW	425435	4841389	83	Campbell	5/21/2013	INAC		FAIR	CTI/45'	Sticks/35'
Hank Unit	UNRA	4533	43	75	7, SW/SW	425535	4839860	83	Campbell	5/23/2013	INAC		FAIR	CTI/35'	Sticks/15'
Hank Unit	UNRA	6185	43	76	13, NE/NE	424860	4839710	83	Campbell	5/23/2013	INAC		GONE	dup of 4536	Sticks
Hank Unit	UNRA	12865	44	76	25, NE/NE	425277	4846360	83	Campbell	5/28/2013	INAC		GONE	CTI/30'	Sticks/25'
Hank Unit	UNRA	13386	44	75	30, SE/SE	426871	4845207	83	Campbell	5/28/2013	INAC		POOR	JUN/20'	Sticks/12'
Hank Unit	UNRA	12843	43	75	8, NW/SW	427204	4840440	83	Campbell	6/7/2013	INAC		FAIR	JUL/20'	Sticks/15'
Nichols Ranch Unit	GOEA	4500	43	76	20, NE/NE	418591	4837803	83	Campbell	5/2/2013	INAC		GONE	CTI/50'	Sticks/40'
Nichols Ranch Unit	GOEA	5494	43	76	20, NE/NE	418662	4837768	83	Campbell	5/2/2013	INAC		GONE	CLF	Sticks
Nichols Ranch Unit	GOEA	5537	43	76	17, SW/SE	418170	4838235	83	Campbell	5/2/2013	INAC		FAIR	CTI/50'	Sticks
Nichols Ranch Unit	GOEA	12757	43	76	19, SE/NE	417064	4837702	83	Johnson	5/2/2013	INAC		POOR	CTI/50'	Sticks/40'

Table A.1 (Continued)

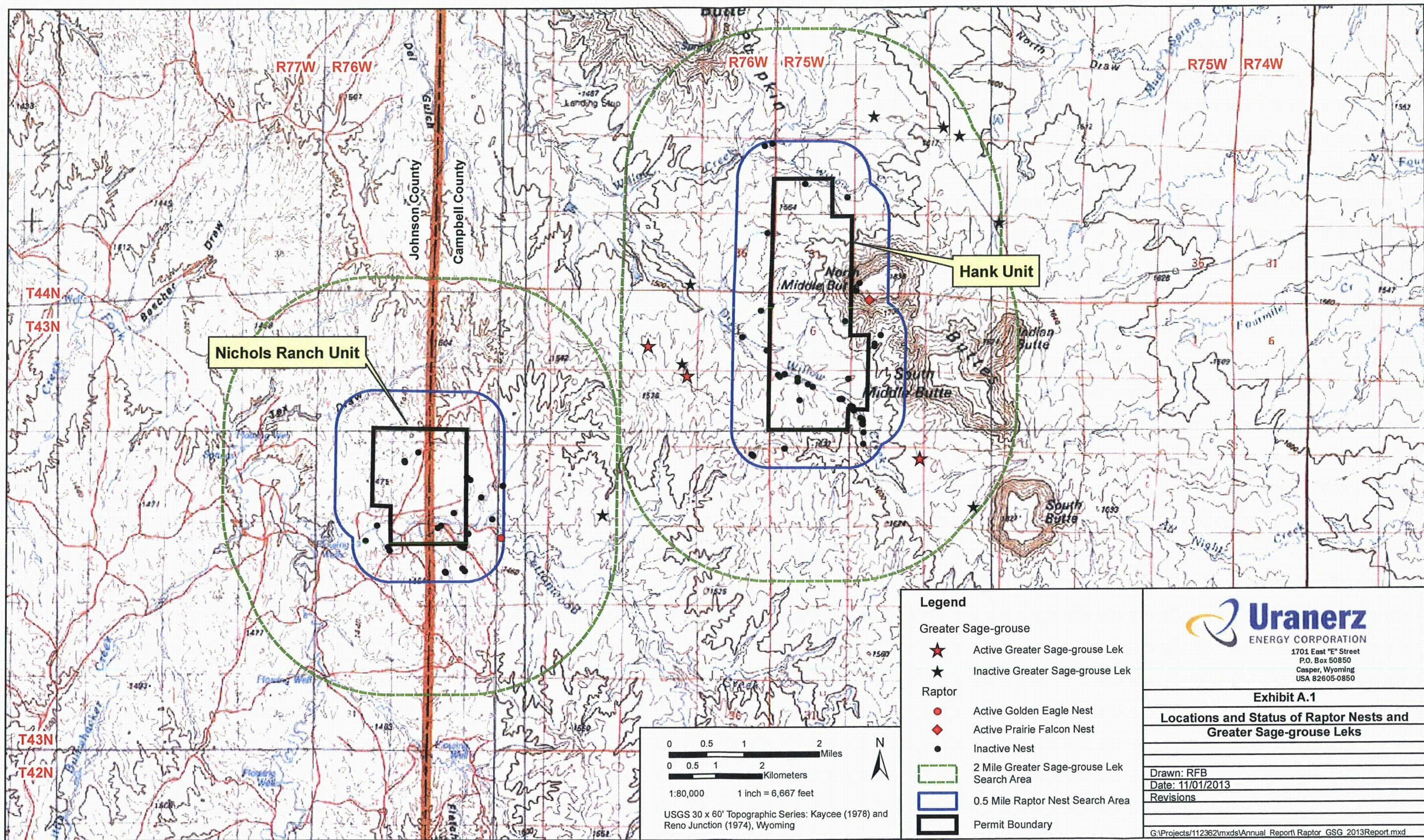
UNIT	Species	WLR/BLM ID	Twn	Rng	Sec, qd/q	Eastng	Northing	Datum	County	Date	Status 2013	Production	Condition	Sub/Ht	Nest/Ht
Nichols Ranch Unit	GRHO	5511	43	76	20, NE/SE	418771	4837232	83	Campbell	5/2/2013	INAC		GOOE	CTL/45'	Nest/Ht
Nichols Ranch Unit	LOOW	5491	43	76	16, SW/NW	418730	4839255	83	Campbell	5/2/2013	INAC		POOR	CTL/40'	Sticks/30'
Nichols Ranch Unit	RETA	5486	43	76	16, SE/NW	419491	4839078	83	Campbell	5/2/2013	INAC		GOOD	CTL/55'	Sticks/30'
Nichols Ranch Unit	RETA	5487	43	76	19, NW/NE	416557	4837912	83	Campbell	5/2/2013	INAC		FAIR	CTL/60'	Sticks/40'
Nichols Ranch Unit	RETA	5532	43	76	17, NW/NW	417390	4839590	83	Johnson	5/2/2013	INAC		POOR	CTL/35'	Sticks/20'
Nichols Ranch Unit	RETA	5533	43	76	17, NW/NW	417380	4839615	83	Johnson	5/2/2013	INAC		POOR	CTL/45'	Sticks/30'
Nichols Ranch Unit	UNRA	12967	43	76	16, NW/SW	419028	4838833	83	Campbell	5/2/2013	INAC		POOR	CTL/50'	Sticks/30'
Nichols Ranch Unit	UNRA	124-13	43	76	16, SE/NW	419493	4839080	83	Campbell	5/2/2013	INAC		FAIR	CTL/50'	Sticks/20'
Nichols Ranch Unit	UNRA	4497	43	76	17, SE/SE	418438	4838503	83	Campbell	5/2/2013	INAC		GOOE	CTL/55'	Sticks/25'
Nichols Ranch Unit	UNRA	4498	43	76	16, SE/SW	419768	4838365	83	Campbell	5/2/2013	INAC		GOOE	CTL/50'	Sticks/30'
Nichols Ranch Unit	UNRA	4499	43	76	19, NE/NE	416802	4838238	83	Johnson	5/2/2013	INAC		POOR	CTL/45'	Sticks/30'
Nichols Ranch Unit	UNRA	11945	43	76	20, NW/SE	418259	4837751	83	Campbell	5/2/2013	INAC		FAIR	CTL	
Nichols Ranch Unit	UNRA	11947	43	76	21, NW/NW	418751	4838059	83	Campbell	5/2/2013	INAC		POOR	CTL	
Nichols Ranch Unit	UNRA	11948	43	76	20, SE/NE	418580	4837806	83	Campbell	5/2/2013	INAC		FAIR	CTL	
Nichols Ranch Unit	UNRA	11949	43	76	20, NE/SE	418100	4838187	83	Campbell	5/2/2013	INAC		FAIR	CTL	
Nichols Ranch Unit	UNRA	12963	43	76	20, NE/SE	418630	4837317	83	Johnson	5/2/2013	INAC		POOR	CTL/50'	Sticks/20'
Nichols Ranch Unit	UNRA	12965	43	76	19, SE/NE	417032	4837780	83	Campbell	5/2/2013	INAC		POOR	CTL/40'	Sticks/30'
Nichols Ranch Unit	UNRA	134-13	43	76	20, NE/NE	418653	4837762	83	Campbell	5/2/2013	INAC		FAIR	JUN/25'	Sticks/15'
Nichols Ranch Unit	UNRA	5531	43	76	17, NE/NW	417680	4839800	83	Johnson	5/2/2013	INAC		GOOE	CTL/40'	Sticks/30'
Nichols Ranch Unit	UNRA	5534	43	76	16, SW/NW	418790	4839206	83	Campbell	5/2/2013	INAC		GOOE	CTL/25'	Sticks/20'
Nichols Ranch Unit	UNRA	5535	43	76	16, SW/NW	418720	4839265	83	Campbell	5/2/2013	INAC		POOR	CTL/25'	Sticks/20'
Hank Unit	UNRA	4529	43	75	7, NE/NW	425809	4841286	83	Campbell	5/21/2013	OCCU		GOOD	CTL/45'	Sticks/30'

Table A.2 Location Greater-sage Grouse Leks and Number of Birds Observed, Nichols Ranch ISR Project, 2013.

<u>Lek I.D.</u>	<u>Sec. qg/g</u>	<u>Twn</u>	<u>Rng</u>	<u>Easting</u>	<u>Northing</u>	<u>County</u>	<u>Date</u>	<u>Time</u>	<u>Conditions</u>	<u>Males</u>	<u>Females</u>	<u>Unknown</u>	<u>Air/ground</u>
Windmill	2, SE/SE	43	76	423323	4841666	Campbell	4/5/2013	6:30 AM	partly cloudy, 5-10 SW, 40	0	0		Ground
							4/24/2013	6:05 AM	cloudy, 5-10 N, 30	0	0		Ground
							5/1/2013	6:00 AM	cloudy, 5-10 N, 30	0	0		Ground
Windmill Sat.	11, NE/NE	43	76	423429	4841417	Campbell	4/5/2013	6:40 AM	partly cloudy, 5-10 SW, 40	3	2		Ground
							4/24/2013	6:15 AM	cloudy, 5-10 N, 30	4	0		Ground
							5/1/2013	6:11 AM	cloudy, 5-10 N, 30	5	0		Ground
Windmill North	35, SE/SE	44	76	423500	4843360	Campbell	4/5/2013	6:30 AM	partly cloudy, 0-5 SW, 40	0	0		Ground
							4/16/2013	6:25 AM	cloudy, calm, 20	0	0		Ground
							5/1/2013	5:55 AM	cloudy, 5-10 N, 30	0	0		Ground
Windmill NW	2, NE/SW	43	76	422599	4842051	Campbell	4/5/2013	7:00 AM	partly cloudy, 5-10 SW, 40	1	0		Ground
							4/24/2013	6:25 AM	cloudy, 5-10 N, 35	0	0		Ground
							5/1/2013	6:25 AM	cloudy, 5-10 N, 35	0	0		Ground
North Butte Sat.	20, NE/SW	44	75	427450	4846946	Campbell	4/5/2013	6:52 AM	partly cloudy, 5-10 W, 32	0	0		Ground
							4/24/2013	6:28 AM	cloudy, calm, 25	0	0		Ground
							5/1/2013	6:23 AM	cloudy, calm, 25	0	0		Ground
Gilbertz III	21, SE/SW	44	75	429307	4846518	Campbell	4/5/2013	7:02 AM	partly cloudy, 5-10 W, 35	0	0		Ground
							4/24/2013	6:33 AM	cloudy, calm, 25	0	0		Ground
							5/1/2013	6:29 AM	cloudy, 5-10 NW, 25	0	0		Ground
Gilbertz III Sat.	21, SW/SW	44	75	428960	4846700	Campbell	4/5/2013	7:07 AM	partly cloudy, 5-10 W, 38	0	0		Ground
							4/24/2013	6:35 AM	cloudy, calm, 25	0	0		Ground
							5/1/2013	6:30 AM	cloudy, 5-10 NW, 25	0	0		Ground
Mud Spring Creek	33, NE/NE	44	75	430151	4844662	Campbell	4/5/2013	7:15 AM	partly cloudy, 5-10 W, 32	0	0		Ground
							4/24/2013	6:45 AM	cloudy, calm, 25	0	0		Ground
							5/1/2013	6:40 AM	cloudy, 5-10 NW, 25	0	0		Ground
Hines	16, NW/SE	43	75	429600	4838600	Campbell	4/4/2013	6:30 AM	clear, 5-10 SE, 30	0	0		Ground
							4/16/2013	6:10 AM	cloudy, calm, 20	0	0		Ground
							5/2/2013	5:36 AM	cloudy, calm, 23	0	0		Ground
Hines NW	17, NE/NE	43	75	428443	4839637	Campbell	4/4/2013	7:10 AM	clear, 0-5 SE, 31	1	3		Ground
							4/16/2013	6:48 AM	cloudy, 5-10 NW, 20	2	1		Ground
							5/2/2013	6:24 AM	cloudy, calm, 23	0	0		Ground
Cottonwood Creek 2	15, SE/SE	43	76	421621	4838450	Campbell	4/5/2013	7:20 AM	partly cloudy, 5-10 SW, 40	0	0		Ground
							4/24/2013	6:50 AM	cloudy, 5-10 N, 30	0	0		Ground
							5/1/2013	7:15 AM	cloudy, 5-10 N, 30	0	0		Ground

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Uranerz Energy Corporation



Appendix E

Figures

**The 8 drawings specifically
referenced in the table of
contents have been
processed into ADAMS.**

**These drawings can be
accessed within the ADAMS
package or by performing a
search on the
Document/Report Number.**

D01 – D08X

Appendix F

Performance Bond Estimate

Appendix F
Reference Page

PERFORMANCE BOND ESTIMATE

According to WDEQ-LQD Permit to Mine No. 778 and NRC License SUA-1597, Uranerz is required to submit an updated Annual Surety Estimate Revision each year to adjust the bond amount to reflect existing operations and those planned for construction or operation in the following year.

Please refer to Section V, Performance Bond Estimate of this Annual Report for a description of the bond estimate and details describing revisions and adjustments to the bond estimate for this reporting period.



Surety Estimate 2013 Review

Nichols Ranch In-Situ Recovery Project Uranerz Energy Corporation

Total Restoration and Reclamation Cost Estimates

No.	Cost Item	Cost
1	GROUNDWATER RESTORATION COST	\$2,799,602
2a	PLANT EQUIPMENT REMOVAL AND DISPOSAL COST	\$268,205
2b	BUILDING DEMOLITION AND DISPOSAL COST	\$981,445
3	SOIL REMOVAL & DISPOSAL COST	\$119,076
4	TOTAL WELL ABANDONMENT COST	\$328,744
5	WELLFIELD EQUIPMENT REMOVAL & DISPOSAL COST	\$300,920
6	TOPSOIL REPLACEMENT & REVEGETATION COST	\$133,151
7	MISCELLANEOUS RECLAMATION COST	\$4,081
	Subtotal Restoration and Reclamation Cost Estimate	\$4,935,224
	CONTINGENCY (Miscellaneous & Unknown) (25%)	\$1,233,806
	Project Design	
	Contractor Profit, Overhead and Mobilization	
	Pre-Construction Investigation	
	Project Management	
	On-Site Monitoring	
	Longterm Administration & Licenses/Permits	
	Site Security & Liability Assurance	
	TOTAL CALCULATED IN 2013 DOLLARS	\$6,169,030

US DEPT. of CONSUMER PRICE INDEX ADJUSTMENT 2007 to 2012

10.65%

US DEPT. of CONSUMER PRICE INDEX ADJUSTMENT 2009 to 2012

6.99%

Surety Estimate
First Year of Operation
Nichols Ranch ISR Project
Uranerz Energy Corporation

Worksheet 1, No. 1 --
GROUNDWATER RESTORATION

Cost Item	Mining Unit Nichols#1	Notes
Technical Assumptions		
Wellfield Area (Ft ²)	1,034,433	
Wellfield Area (Acres)	23.75	44.14 Ac at Nichols Ranch Unit Production Area #1 (8 HH)
Affected Ore Zone Area (Ft ²)	1,034,433	
Avg Completed Thickness (Ft)	7.27	
Factor for Flare	1.45	
Affected Volume:	10,904,478	
Porosity	0.3	
Gallons per Cubic Foot	7.48	
Gallon per Pore Volume	24,469,649	
Number of Wells in Unit(s)		
Recovery Wells	207	Recovery Wells for 8 Header Houses
Injection Wells	230	Injection Wells for 8 Header Houses
Monitor Wells	68	Monitoring Ring, Overlying, Underlying & Production Wells
Average Well Spacing (Ft)	100	
Average Well Depth (Ft)	550	
I Groundwater Sweep		
A. Plant & Office		
Operating Assumptions:		
Flowrate (gpm)	50	
PV's Required	1.00	
Total Gallons for Treatment	24,469,649	
Total Kgals for Treatment	24,470	
Cost Assumptions:		
Power		
Avg Connected Hp	15	
Kwh's/Hp	0.75	
\$/Kwh	0.06	\$.02 plus demand charges per quote
Gallons per Minute	50	
Gallons per Hour	3000	
Cost per Hour	\$0.62	
Cost per Kgal (\$)	\$0.21	
Chemicals		
Barium Chloride (\$/Kgals)	\$0.000	Costs from operating ISR facility experience (Cogema)
Antiscalant (\$/Kgals)	\$0.000	Costs from operating ISR facility experience (Cogema)
Elution (\$/Kgals)	\$0.000	Costs from operating ISR facility experience (Cogema)
Repair & Maintenance (\$/Kgals)	\$0.067	Costs from operating ISR facility experience (Cogema)
Analysis (\$/Kgals)	\$0.181	Costs from operating ISR facility experience (Cogema)
Total Cost per Kgal	\$0.46	
Total Treatment Cost	\$11,142	
Utilities		
Power (\$/Month)	1,992	
Propane (\$/Month)	330	Adjusted to actual cost
Time for Treatment		
Minutes for Treatment	489,393	
Hours for Treatment	8,157	
Days for Treatment	340	
Average Days per Month	30	
Months for Treatment	11.3	
Years for Treatment	0.94	
Utilities Cost (\$)	\$26,301	
TOTAL PLANT & OFFICE COST	\$37,443	
B. WELLFIELD		
Cost Assumptions:		
Power		
Avg Flow/Pump (gpm)	1	
Avg Hp/Pump	1.5	
Avg # of Pumps Required	50	
Avg Connected Hp	75	
Kwh's/Hp	0.75	
\$/Kwh	0.06	
Gallons per Minute	50	
Gallons per Hour	3000	
Costs per Hour (\$)	\$3.10	
Costs per Gallon (\$)	\$0.0010	
Costs per Kgal (\$)	\$1.03	
Repair & Maintenance (\$/Kgals)	\$0.02	
Total Cost per Kgal	\$1.05	
TOTAL WELLFIELD COST	\$25,681	
TOTAL GROUNDWATER SWEEP COST	\$63,124	

**Surety Estimate
First Year of Operation
Nichols Ranch ISR Project
Uranerz Energy Corporation**

**Worksheet 1, No. II
GROUNDWATER RESTORATION**

Cost Item	Mining Unit Nichols #1	Notes
II REVERSE OSMOSIS (RO)		
A. PLANT & OFFICE		
Operating Assumptions:		
Flowrate (gpm)	50	
PV's Required	6	
Total Gallons for Treatment	146,817,895	
Total Kgals for Treatment	146,818	
Feed to RO (gpm)	50	
Permeate Flow (gpm)	40	
Brine Flow (gpm)	10	
Average RO Recovery	80%	
Cost Assumptions:		
Power		
Avg Connected Hp	15	
kWh/Hp	0.75	
\$/Kwh	0.06	\$0.02 plus demand charges per quote
Gallons per Minute	50	
Gallons per Hour	3000	
Cost per Hour (\$)	\$0.62	
Cost per Gallon (\$)	\$0.0002	
Cost per Kgal (\$)	\$0.21	
Chemicals		
RO Antiscalent (\$/Kgallons)	\$0.180	Costs from GE Water & Process Technologies
Hydrochloric Acid (\$/Kgals)	\$0.010	Uranerz cost plus cpi
Reductant Sulfide (\$/Kgals)	\$0.325	Costs from operating ISR facility experience (Cogema)
Repair & Maintenance (\$/Kgals)	\$0.309	Costs from operating ISR facility experience (Cogema)
Sampling & Analysis (\$/Kgals)	\$0.181	Costs from operating ISR facility experience (Cogema)
Total Cost per Kgal (\$)	\$1.21	
Total Pumping Cost (\$)	\$177,907	
Utilities		
Power (\$/Month)	1,992	
Propane (\$/Month)	330	Adjusted to actual cost
Time for Treatment	0	
Minutes for Treatment	2,936,358	
Hours for Treatment	48,939	
Days for Treatment	2,039	
Average Days per Month	30	
Months for Treatment	67	
Utilities Cost (\$)	\$155,732	
TOTAL PLANT & OFFICE COST	\$333,639	
B. WELLFIELD		
Cost Assumptions:		
Power		
Avg Flow/Pump (gpm)	1	
Avg Hp/Pump	1.5	
Avg # of Pumps Required	50	
Avg Connected Hp	75	
Kwh's/Hp	0.75	
\$/Kwh	0.06	
Gallons per Minute	51	
Gallons per Hour	3060	
Costs per Hour (\$)	\$3.10	
Costs per Gallon (\$)	\$0.0010	
Costs per Kgal (\$)	\$1.01	
Repair & Maintenance (\$/Kgals)	\$0.02	
Total Cost per Kgal	\$1.03	
TOTAL WELLFIELD COST	\$151,117	
TOTAL REVERSE OSMOSIS COST	\$484,756	

**Surety Estimate
First Year of Operation
Nichols Ranch ISR Project
Uranerz Energy Corporation**

**Worksheet 1, No III --
GROUNDWATER RESTORATION**

Cost Item	Mining Unit Nichols #1	Notes
III Deep Disposal Well (DDW)		
Operating Assumptions:		
Total Disposal Requirement		
RO Brine Total Gallons	29,363,579	
RO Brine Total Kgallons	29,364	
Brine Concentration Factor	1	
Total Concentrated Brine (gallons)	29,363,579	
Months of RO Operation	11	
Average Monthly Req'm't (Gallons)	2,592,000	
Average Brine Flow (gpm)	60	
Total DDW Disposal (gallons)	29,363,579	
Total DDW Disposal (Kgallons)	29,364	
Cost Assumptions:		
Avg Connected Hp	15	
Kwh's/Hp	0.75	
\$/Kwh	0.06	Cost plus cpi
Gallons per Minute	60	
Gallons per Hour	3600	
Cost per Hour (\$)	\$0.62	
Cost per Gallon (\$)	\$0.0002	
Cost per Kgal (\$)	\$0.17	
Chemicals		
RO Antiscalent (\$/Kgallons)	\$0.180	Costs from GE Water & Process Technologies
DDW Antiscalent (\$/Kgallons)	\$0.160	Costs from GE Water & Process Technologies
Repair & Maint. (\$/Kgallons)	\$0.254	Costs from operating ISR facility experience (Cogema)
Total Cost per Kgallon	\$0.766	
TOTAL DEEP DISPOSAL WELL COST	\$22,506	

**Surety Estimate
First Year of Operation
Nichols Ranch ISR Project
Uranerz Energy Corporation**

**Worksheet 1, Nos. IV & VI --
GROUNDWATER RESTORATION**

Cost Item	Mining Unit	Labor Cost Factors			Notes
	Nichols #1				
IV RESTORATION MONITORING					
Operating Assumptions:					
Time of Restoration (months)	24				Monitoring Ring, Overlaying & Underlying Wells Only
Frequency of Analysis (months)	2				
Quantity of Monitoring Wells	55				Quote from Energy Laboratories
Total Sets of Analysis	12				
Cost per Event	\$30				
Total Sampling & Analysis Cost (\$)	\$19,800				
V STABILIZATION MONITORING					
Operating Assumptions:					
Time of Stabilization (months)	12				Monitoring Ring Wells Only
Frequency of Analysis (months)	2				Monitoring Ring Wells Only
Total Sets of Analysis	6				Production Monitoring Wells Only
Frequency of Analysis (months)	4				Production Monitoring Wells Only
Total Sets of Analysis	3				
Cost Assumptions:					
Power (\$/Month)	\$0				No add'l power required to sample
Total Power Cost	\$0				
Quantity of Monitoring Ring Wells	32				Monitoring Ring Wells Only
Quantity of Production Monitoring Wells	13				Production Monitoring Wells Only
Cost per Event	\$365				Quote from Energy Laboratories
Sampling & Analysis (each set)	\$16,432				
Total Sampling & Analysis Cost (\$)	\$147,884				
Utilities (\$/Month)	\$0				No add'l utilities required to sample
Total Utilities Cost (\$)	\$0				
TOTAL STABILIZATION COST	\$147,884				
VI LABOR					
Cost Assumptions:	No.	Cost/Hour	Hours/Year	Cost	Prices based on 2013 Building Construction Prevailing Wages, WDEQ-LQD Guideline 12 (2013)
Crew:					
1. Supervisor	1	29	2080	\$60,320	
2. Operators	4	22	2080	\$183,040	
3. Maintenance	2	20	2080	\$83,200	
4. Vehicles	2	10	2080	\$41,600	
Cost per Year				\$368,160	
Time Required - Years	5.02				
TOTAL RESTORATION LABOR COST	\$1,848,163				

Surety Estimate
First Year of Operation
Nichols Ranch ISR Project
Uranerz Energy Corporation

Worksheet 1, Nos. VII, VIII & Summary --
GROUNDWATER RESTORATION

Cost Item	Mining Unit	Notes
	Nichols #1	
VII RESTORATION CAPITAL REQUIREMENTS		
I Deep Disposal Well(s)	2	
II Plug and Abandon DDW	\$106,684	\$96,416 price required by UIC 10-392 Permit Already in Processing Plant
III Reverse Osmosis Unit	\$0	
TOTAL RESTORATION CAPITAL REQUIREMENTS	\$213,368.61	
VIII RESTORATION OF EXCURSION WELLS		
I Shallow Sand Well(s)		
Total Wells in Excursion	0	Assume no excursions during Year 1
Cost of Clean-Up	\$0	
Total Shallow Sand Cleanup	\$0	
II Ore Zone Wells		
Total Wells in Excursion	0	
Cost of Clean-Up	\$0	
Total Ore Zone Cleanup	\$0	
III Deep Zone Wells		
Total Wells in Excursion	0	
Cost of Clean-Up	\$0	
Total Deep Zone Cleanup	\$0	
TOTAL WELLFIELD COST		
TOTAL EXCURSION CLEANUP COST	\$0	
SUMMARY:		
I GROUNDWATER SWEEP	\$63,124	
II REVERSE OSMOSIS (RO)	\$484,756	
III DEEP DISPOSAL WELL	\$22,506	
IV RESTORATION MONITORING	\$19,800	
V STABILIZATION MONITORING	\$147,884	
SUB TOTAL	\$738,070	
VI LABOR	\$1,848,163	
VII RESTORATION CAPITAL REQUIREMENTS	\$213,369	
VIII RESTORATION OF EXCURSION WELLS	\$0	
TOTAL GROUNDWATER RESTORATION COST	\$2,799,602	

**Surety Estimate
First Year of Operation
Nichols Ranch ISR Project
Uranerz Energy Corporation**

**Worksheet 2 a
PLANT EQUIPMENT REMOVAL AND DISPOSAL**

Cost Item	Nichols Mine Unit							Notes
	Office & Laboratory	Main Process Building	Maintenance Building	Resin + Sand Filter Media	External Tanks	Header Houses, Manifold	Deep Well Bldgs	
Volume (Yds ³)	40	200	45	110	109	170	10	
Quantity per Truck Load (Yds ³)	20	20	20	20	20	20	20	
Number of Truck Loads	2	10	2.25	5.5	5.45	8.5	0.5	
I Decontamination Cost								
Decontamination Cost (\$/Load)	663.9	663.9	663.9	663.9	663.9	663.9	663.9	
Percent Requiring Decontamination	20%	100%	20%	0%	50%	100%	100%	
Total Cost	\$266	\$6,639	\$299	\$0	\$1,809	\$5,643	\$332	
II Dismantle and Loading Cost								
Cost per Truck Load (\$)	\$885	\$885	\$885	\$885	\$885	\$885	\$885	
Total Cost	\$1,770	\$8,852	\$1,992	\$4,869	\$4,824	\$7,524	\$443	
III Oversize Charges								
Percent Requiring Permits	40%	40%	40%	0%	50%	40%	40%	
Cost per Truck Load (\$)	\$443	\$443	\$443	\$443	\$443	\$443	\$443	
Total Cost	\$354	\$1,770	\$398	\$0	\$1,206	\$1,505	\$89	
IV Transportation & Disposal								
A. Landfill								
Percent to be Shipped	90%	80%	90%	0%	100%	80%	80%	
Distance (Miles)	75	75	75	75	75	75	75	
Transport Cost (\$/Ton-Mile)	\$0.17	\$0.17	\$0.17	\$0.17	\$0.17	\$0.17	\$0.17	
Transportation Cost	\$484	\$2,151	\$544	\$0	\$1,465	\$1,828	\$108	
Disposal Fee per Cubic Yard	\$67	\$67	\$67	\$67	\$67	\$67	\$67	
Disposal Cost	\$2,430	\$10,799	\$2,734	\$0	\$7,357	\$9,180	\$540	
Total Cost	\$2,914	\$12,950	\$3,278	\$0	\$8,823	\$11,008	\$648	
B. Licensed Site								
Percent to be Shipped	10%	20%	10%	100%	0%	20%	20%	
Distance (Miles)	646	646	646	646	646	646	646	
Transport Cost (\$/Ton-Mile)	\$0.17	\$0.17	\$0.17	\$0.17	\$0.17	\$0.17	\$0.17	
Transport Cost	\$2,791	\$27,907	\$3,140	\$76,745	\$0	\$23,721	\$1,395	
Disposal Cost (\$/Ton)	\$135	\$150	\$150	\$180	\$150	\$150	\$150	Based on Contract Prices
Quantity per Truck Load (Yds ³)	20	20	20	20	20	20	20	
Quantity per Truck Load (Tons)	21.6	21.6	21.6	21.6	21.6	21.6	21.6	Based on avg 80lbs per cf
Unloading Cost (per Shipment)	\$750	\$750	\$750	\$750	\$750	\$750	\$750	Based on Contract Prices
Unloading Cost	\$150	\$1,500	\$169	\$4,125	\$0	\$1,275	\$75	
Disposal Cost	\$733.20	7,980	898	25,509	0	6,783	399	
Total Cost	\$3,524	\$35,887	\$4,037	\$102,254	\$0	\$30,504	\$1,794	
Total Cost	\$6,438	\$48,838	\$7,315	\$102,254	\$8,823	\$41,512	\$2,442	
TOTAL COST NICHOLS RANCH MINE	\$8,828	\$66,099	\$10,004	\$107,122	\$16,662	\$56,184	\$3,305	\$268,205

Surety Estimate
First Year of Operation
Nichols Ranch ISR Project
Uranerz Energy Corporation

Worksheet 2 b --
BUILDING DEMOLITION AND DISPOSAL

Cost Item	Nichols Mine Unit							Notes
	Office & Laboratory	Main Process Building	Maintenance Building	Header Houses, Manifold & Fuel Island Pad	Personnel Interim Lodging	Deep Disposal Well Bldgs.	Sub Total	
STRUCTURE DEMOLITION & DISPOSAL								
Structural Character								
Demolition Volume (Ft ³)	90,000	1,188,000	144,000	2,585	800	2,302		
Unit Cost of Demolition (\$/ Ft ³)	\$0.297	\$0.297	\$0.297	\$0.297	\$0.297	\$0.297		Demolition Unit Cost per WDEQ Guideline No.12, App. K (\$/ft3) 2013
Total Demolition Cost	\$26,769	\$353,349	\$42,830	\$769	\$238	\$685		
Weight of Disposal Material in Tons	41	535	65	1	0.36	1		
Factor for Gutting	0.1	0.3	0.2	0.25	0.2	0.25		
Cost for Gutting (\$)	\$2,677	\$106,005	\$8,566	\$192	\$48	\$171		
Quantity per Truck Load (Ton)	21.6	21.6	21.6	21.6	21.6	21.6		
Number of Truckloads	1.9	24.8	3.0	0.1	0.02	0.0		
Distance to Landfill	75	75	75	75	75	75		
Unit Cost (Ton-Mile)	\$0.17	\$0.17	\$0.17	\$0.17	\$0.17	\$0.17		
Transportation Cost	\$504.15	\$6,654.77	\$806.64	\$14.48	\$4.48	\$12.90		
Disposal Cost (\$/ton)	\$75.85	\$75.85	\$75.85	\$75.85	\$75.85	\$75.85		Demolition Unit Cost per WDEQ Guideline No.12, App. K, Adjusted Cost per Unit 2013
Disposal Cost (\$)	\$3,071.73	\$40,546.85	\$4,914.77	\$88.23	\$27.30	\$78.57		
TOTAL STRUCTURE DEMO & DISPOSAL	\$33,022	\$506,556	\$57,118	\$1,064	\$317	\$947	\$599,024	
CONCRETE DECONTAMINATION, DEMO & DISPOSAL								
Area	9000	29700	8000	2517	0	408		8 header houses @250 sq ft each, manifold is 357 sq ft., fuel island is 160 sq ft
Average Thickness (Ft)	0.5	0.5	0.5	0.5	0.5	1		
Volume (Ft ³)	4500	14850	4000	1258.5	0	408		
Weight of Disposal Concrete Assuming 145lbs/cubic foot	652,500	2,153,250	580,000	182,483	0	59,160		
Weight of Disposal in Tons	326	1077	290	91	0	30		
Percent Requiring Decontamination	0%	100%	0%	10%	0%	100%		
Volume Decontaminated (Ft ³)	0	14,850	0	126	0	408		
Decontamination (\$/Ft ²)	\$0.315	\$0.315	\$0.315	\$0.315	\$0.315	\$0.315		Decontamination by Steam Cleaning (137.5 ft2/hr) ECHOS Unit Cost Book
Decontamination Cost	\$0	\$4,675	\$0	\$40	\$0	\$128		Demolition Unit Cost per WDEQ Guideline No.12, App. K, Adjusted Cost per Unit 2013
Demolition (\$/Ft ²)	\$5.86	\$5.86	\$5.86	\$5.86	\$5.86	\$5.86		
Demolition Cost	\$52,767	\$174,133	\$46,904	\$14,757	\$0	\$2,392		
Transportation & Disposal								
A. Onsite Disposal								
Percent to be Disposed Onsite	100%	75%	100%	75%	0%	75%		
Transportation Cost	\$0	\$0	\$0	\$0	\$0	\$0		Demolition Unit Cost per WDEQ Guideline No.12, App. K, Adjusted Cost per Unit, 2013
Disposal Cost per Cubic Yard (\$)	\$8.87	\$8.87	\$8.87	\$8.87	\$8.87	\$8.87		
Disposal Cost (\$)	\$1,478	\$4,878	\$1,314	\$413	\$0	\$134		
B. Licensed Site								
Percent to be Shipped	0%	25%	0%	25%	0%	25%		
Distance (Miles)	646	646	646	646	646	646		
Unit Cost (Ton-Mile)	\$0.17	\$0.17	\$0.17	\$0.17	\$0.17	\$0.17		
Transportation Cost (\$)	\$0	\$28,859	\$0	\$2,446	\$0	\$793		
Disposal Cost (\$/Ton)	\$135	\$135	\$135	\$135	\$135	\$135		Based on Contract Prices
Unloading Cost (per Shipment)	\$830	\$830	\$830	\$830	\$830	\$830		Based on Contract Prices
Unloading Cost	\$0	\$10,341	\$0	\$12,088	\$0	\$3,919		
Disposal Cost (\$)	\$0	\$46,677.11	\$0	\$3,079	\$0	\$998		
TOTAL TRANSPORT & DISPOSAL COST	\$54,246	\$259,222	\$48,218	\$20,735	\$0	\$4,446	\$382,421	
TOTAL BUILDING DEMO & DISPOSAL COST	\$87,267	\$765,778	\$105,336	\$21,799	\$317	\$5,393	\$981,445	

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Worksheet 3
SOIL REMOVAL & DISPOSAL

Cost Item	Nichols Mine Unit						Notes
	Office & Laboratory	Main Process Building	Maintenance Building	Header Houses, Manifold & Fuel Island Pad	Deep Disposal Well Bldgs.	Sub Total	
SOIL EXCAVATION, TRANSPORT & DISPOSAL							
Removal Under Building Footprints							
Excavation, Front End Loader	\$53	\$175	\$47	\$15	\$2		\$89.04/hr per WDEQ Guideline 12 and 150 cy/hr
Quantity to be Shipped (Ft ³)	2,250	7,425	2,000	629	102		Assume removal of 3" of Contaminated Soil under Primary Areas, Disposal at a Licensed facility (ft3)
Weight in Tons	112.5	371.25	100	31.46	5.1		
Quantity per Truck Load (Ton)	21.6	21.6	21.6	21.6	21.6		
Number of Truckloads	5.2	17.2	4.6	1.5	0.2		
Distance (Miles)	646	646	646	646	646		
Transportation Unit Cost (Ton/Mile)	\$0.17	\$0.17	\$0.17	\$0.17	\$0.17		
Transportation Cost	\$12,062	\$39,805	\$10,722	\$3,373	\$547		
Disposal Fee (\$/Ton)	\$150	\$150	\$150	\$150	\$150		Based on Contract Prices
Disposal Cost (\$)	\$16,875	\$55,688	\$15,000	\$4,719	\$765	\$93,047	
Unloading Cost (per Shipment)	\$750	\$750	\$750	\$750	\$750		Based on Contract Prices
Unloading Cost	\$3,906	\$12,891	\$3,472	\$1,092	\$177	\$21,539	
Removal NPDES Fls.							
Quantity to be Shipped (Ft ³)	0	0	0	0	0		Zero discharge facility
Weight in Tons	0	0	0	0	0		
Distance (Miles)	160	160	160	160	160		
Transportation Cost Ton/Mile	\$0.17	\$0.17	\$0.17	\$0.17	\$0.17		
Transportation Cost	\$0	\$0	\$0	\$0	\$0		
Disposal Fee (\$/Ton)	\$350	\$350	\$350	\$350	\$350		Based on Contract Prices
Disposal Cost	\$0	\$0	\$0	\$0	\$0		
Total NPDES Removal Cost	\$0	\$0	\$0	\$0	\$0	\$0	
TOTAL SOILS EXC., TRANSPORT & DISPOSAL	\$20,781	\$68,578	\$18,472	\$5,812	\$942	\$114,586	
RADIATION SURVEY							
Area Required (Acres)	0.21	0.68	0.18	0.06	0.01		
Survey Cost (\$/Acre)	\$664	\$664	\$664	\$664	\$664		
Number of Structures	1	1	1	8	4		
Cost per Structure (\$)	\$249	\$249	\$249	\$249	\$249		
TOTAL RAD SURVEY COST	\$386	\$702	\$371	\$2,030	\$1,002	\$3,489	
TOTAL SOIL REMOVAL & DISPOSAL COST	\$21,167	\$69,280	\$18,843	\$7,842	\$1,944	\$119,076	

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**Worksheet 4 --
Well Abandonment**

Cost Item	Mining Unit		Sub Total	Notes
	Nichols #1	Nichols #2		
Number of Wells	507	70		Includes injection, recovery and monitor wells. See Worksheet 1, No. 1, Plus 1 Plant water well and 1 domestic well.
Average Depth (ft)	550	550		
Average Diameter (inch)	5	5		
Area of Annulus (ft ²)	0.1364	0.1364		
Materials				
Bentonite Chips Required (Ft ³ /Well)	40.9	40.9		300 feet of clay above water
Bags of Chips Required/Well	55	55		
Cost per Bag (\$)	\$7.14	\$7.14		Uranerz Cost plus cpi
Cost/Well Bentonite Chips	\$393	\$393		
Gravel Fill Required (Ft ³ /Well)	34.1	34.1		Avg depth less 300 feet filled w/ gravel
Cost of Gravel/Yd ³	\$22	\$22		Uranerz Cost plus cpi
Cost/Well Gravel Fill	\$28	\$28		
Cement Cone/Markers Req'd/Well	1	1		
Cost of Cement Cones Markers	\$6.64	\$6.64		
Total Materials Cost per Well	\$427	\$427		
Labor				
Hours Required per Well	2	2		
Labor Cost per Hour	\$77	\$77		
Total Labor Cost per Well	\$155	\$155		
Equipment Rental				
Hours Required per Well	1	1		
Backhoe w/Operator Cost/Hr	\$66	\$66		
Total Equipment Cost per Well	\$66	\$66		
Total Cost per Well	\$648	\$648		
TOTAL WELL ABANDONMENT COST	\$328,744	\$45,389	\$374,132	

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Worksheet 5, No. 1 –
WELLFIELD EQUIPMENT REMOVAL & DISPOSAL

Cost Item	Mining Unit Nichols #1	Notes
I Wellfield Piping		
A. Removal		
Total Number of Wells	505	Includes injection, recovery and monitor wells. See Worksheet 1, No. 1
Feeder lines from HH to Injection wells 1" HDPE (Ft)	71,560	From Preliminary Design
Pregnant solution feeder lines from production wells to HH 1" HDPE (Ft)	50,427	From Preliminary Design
Total Quantity of 1" HDPE Piping (Ft)	121,987	
Plastic Volume (Ft ³)	400.05	Thickness Based on WL Plastics Corp PSI 160 (R1=.05479', R2=.04425')
Chipped Volume Assuming 30% Void Space (Ft ³)	520.07	
Disposal Weight (tons)	20.80	Year 1 buildout only to include Nichols 1
Quantity per Truck Load (Tons)	21.6	Based on 20 cy per truckload and 80lbs per cf
Total Number of Truck Loads	1	
Total Length of Feeder line Trench (Ft)	40,765	Includes Shared Trenches
Pipeline Removal Unit Cost (\$/ft of trench)	\$2.49	Quote - Jordan Construction
Total Cost for Trunkline Removal	\$101,488	
Total Cost - Removal	\$101,488	
B. Survey & Decontamination		
Percent Requiring Decontamination	0	No survey or decon needed. Total volume to disposal
Loads for Decontamination	0	
Cost for Decontamination (\$/Load)	\$664	
Cost for Decontamination	\$0	
C. Transport & Disposal		
1.) Landfill		
a. Transportation		
Percent to be Shipped	0%	
Loads to be Shipped	0	
Distance (Miles)	75	
Transportation Cost (Ton/Mile)	\$0.17	
Transportation Cost	\$0	
b. Disposal		
Disposal Fee per Yd ³	\$67	
Yds ³ per Load	20	
Disposal Cost	\$0	
Total Cost - Landfill	\$0	
2.) Licensed Site		
a. Transportation		
Percent to be Shipped	100%	
Loads to be Shipped	1	
Tons to be Shipped	20.80	
Distance (Miles)	646	
Transportation Cost Ton/Mile	\$0.17	
Transportation Cost	\$2,230	
b. Disposal		
Disposal Fee per ton	\$150	Based on Contract Prices
Disposal Cost	\$3,120	
Unloading Cost (per Shipment)	\$750	Based on Contract Prices
Unloading Cost	\$750	
Total Cost - Licensed Site	\$6,101	
Total Cost - Transport & Disposal	\$6,101	
Total Cost - WF Piping Removal & Disposal	\$107,589	

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Worksheet 5, No. II

WELLFIELD EQUIPMENT REMOVAL & DISPOSAL

Cost Item	Mining Unit Nichols #1	Notes
II Production Well Pumps		
A. Pump and Tubing Removal		
Number of Production Wells	208	From Worksheet 1 No I.
Cost of Removal (\$/well)	\$44	
Cost of Removal	\$9,206	
Number of Pumps per Truck Load	180	
Number of Truck Loads (Pumps)	1.16	
Weight of Pumps	21.16	Assume 20 T per truck
B. Survey & Decontamination (Pumps)		
Percent Requiring Decontamination	50%	
Loads for Decontamination	0.58	
Cost for Decontamination (\$/Load)	\$664	
Cost for Decontamination	\$384	
C. Tubing Volume Reduction & Loading		
Length per Well (Ft)	300	
Total Quantity (Ft³)	204.6	Thickness Based on WL Plastics Corp PSI 160 (R1=.05479', R2=.04425')
Chipped Volume Assuming 30% Void Space (Ft³)	266.0	
Cost of Removal (\$/Ft)	\$0.03	
Cost of Removal	\$9.96	
Quantity per Truck Load (Ft³)	540	
Number of Truck Loads	0.38	
D. Transport & Disposal		
1.) Landfill		
a. Transportation		
Percent to be Shipped (Pumps)	50%	
Loads to be Shipped	0.6	
Distance (Miles)	75	
Transportation Ton/Mile	\$0.17	
Transportation Cost	\$155	
b. Disposal		
Disposal Fee per Yd³	\$67	
Yds³ per Load	20	
Disposal Cost	\$780	
Total Cost - Landfill	\$935	
2.) Licensed Site		
a. Transportation		
Percent to be Shipped (Pumps)	50%	
Percent to be Shipped (Tubing)	100%	
Loads to be Shipped	0.96	
Distance (Miles)	646	
Transportation Ton/Mile	\$0.17	
Transportation Cost	\$2,216	
b. Disposal		
Disposal Fee per ton	\$150	
Disposal Cost	\$150	Based on Contract Prices
Unloading Cost (per Shipment)	\$750	Based on Contract Prices
Unloading Cost	\$718	
Disposal Cost	\$868	
Total Cost - Licensed Site	\$3,083	
Total Cost - Transport & Disposal	\$4,019	
Total Cost - Pump Removal & Disposal	\$13,618	

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Worksheet 5, No. III

WELLFIELD EQUIPMENT REMOVAL & DISPOSAL

Cost Item	Mining Unit	Notes
	Nichols #1	
III Buried Trunkline		
A. Removal		
Trunk lines from Resin Plant to HH 8" HDPE Pipe (Ft)	38,473	
Pregnant solution trunk lines form HH to Resin Plant 8" HDPE Pipe (Ft)	38,473	
Total Quantity of 8" HDPE Piping (Ft)	76,946	
		Thickness Based on WL
Plastic Volume (Ft ³)	51,906	Plastics Corp PSI 160
Chipped Volume Assuming 30% Void Space (Ft ³)	67,478	(R1=.7188', R2=.5494')
Disposal Tons	320	8.315lb/ft per WL Plastics
Quantity per Truck Load (Tons)	21.6	
Total Number of Truck Loads	15	
Total Length of Trunkline Trench (Ft)	38,473	
Pipeline Removal Unit Cost (\$/Ft of trench)	\$2.49	Quote Jordan Construction
Total Cost for Trunkline Removal	\$95,783	
B. Survey & Decontamination		
		No survey or decon needed.
Percent Requiring Decontamination	0	Total volume to low level
Loads for Decontamination	0	disposal
Cost for Decontamination (\$/Load)	\$664	
Cost for Survey & Decontamination	\$0	
C. Transportation & Disposal		
1.) Landfill		
a. Transportation		
Percent to be Shipped	0%	
Loads to be Shipped	0	
Distance (Miles)	75	
Transportation Cost per Ton/Mile	\$0.17	
Transportation Cost	\$0	
b. Disposal		
Disposal Fee per Yd ³	\$67	
Yds ³ per Load	20	
Disposal Cost	\$0	
Total Cost - Landfill	\$0	
2.) Licensed Site		
a. Transportation		
Percent to be Shipped	100%	
Loads to be Shipped	15	
Tons to be Shipped	319.90	
Distance (Miles)	646	
Transportation Ton/Mile	\$0.17	
Transportation Cost	\$34,300	
b. Disposal		
Disposal Fee per ton	\$150	Based on Contract Prices
Disposal Cost	\$47,985	
Unloading Cost (per Shipment)	\$750	Based on Contract Prices
Unloading Cost	\$11,250	
Total Cost - Licensed Site	\$82,285	
Total Cost Transportation & Disposal	\$82,285	
Total Cost - Buried Trunkline Removal & Disposal	\$178,069	

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Worksheet 5, No. IV

WELLFIELD EQUIPMENT REMOVAL & DISPOSAL

Cost Item	Mining Unit Nichols #1	Notes
IV Manholes		
A. Removal		
Total Quantity	6	
Cost of Removal (\$ Each)	\$ 139.12	
Total Cost of Removal (\$)	\$ 834.72	
Disposal Tons	3.19	
Quantity per Truck Load (Tons)	21.6	Based on 20 cy per truckload and 80lbs per cf
Total Number of Truck Loads	0.28	
B. Survey & Decontamination		No survey or decon needed. Total volume to low level disposal
Percent Requiring Decontamination	0%	
Loads for Decontamination	0	
Cost for Decontamination (\$/Load)	\$642	
Cost for Survey & Decontamination	\$0	
C. Transportation & Disposal		
1.) Landfill		
a. Transportation		
Percent to be Shipped	0%	
Loads to be Shipped	0	
Distance (Miles)	75	
Transportation Cost per Ton/Mile	\$0.16	
Transportation Cost	\$0	
b. Disposal		
Disposal Fee per Yd ³	\$65	
Yds ³ per Load	20	
Disposal Cost	\$0	
Total Cost - Landfill	\$0	
2.) Licensed Site		
a. Transportation		
Percent to be Shipped	100%	
Loads to be Shipped	0.28	
Tons to be Shipped	3.19	
Distance (Miles)	646	
Transportation Ton/Mile	\$0.16	
Transportation Cost	\$331	
b. Disposal		
Disposal Fee per ton	\$150	
Disposal Cost	\$479	
Unloading Cost (per Shipment)	\$750	
Unloading Cost	\$208	
Total Cost - Licensed Site	\$809	
Total Cost Transportation & Disposal	\$809	
Total Cost - Removal & Disposal	\$1,644	
TOTAL WELLFIELD EQUIPMENT REMOVAL & DISPOSAL COST	\$300,920	

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Worksheet 6, No. 1

TOPSOIL REPLACEMENT & REVEGETATION

Cost Item	Mining Unit Nichols #1	Notes
I Process Plant and Office Building		
A. Topsoil Handling & Grading		
Affected Area (Acres)	5.2	Plant site is 475' by 475'
Average Affected Thickness (Inch)	6	
Topsoil Volume (Yds ³)	4,178	
Unit Cost (\$/Yds ³)	\$6	Price from Dragstrip Soil Cover Project MT
Sub Total - Topsoil	\$23,116	
B. Radiation Survey & Soil Analysis		
Unit Cost (\$/Acre)	\$664	
Sub Total - Survey & Analysis	\$3,439	
C. Revegation		
Fertilizer (\$/Arec)	\$256.71	Price from Dragstrip Soil Cover Project MT
Seeding Prep & Seeding (\$/Acre)	\$251.18	Price from Dragstrip Soil Cover Project MT
Mulching & Crimping (\$/Acre)	\$110.65	Price from Dragstrip Soil Cover Project MT
Sub Total Cost/Acre	\$618.53	
Sub Total Revegation	\$3,204	
TOTAL PLANT AND OFFICE BUILDING TOPSOIL REPLACEMENT & REVEG COST	\$29,759	

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Worksheet 6, Nos. II & III

TOPSOIL REPLACEMENT & REVEGETATION

Cost Item	Mining Unit	Notes
	Nichols #1	
II Wellfields		
A. Topsoil Handling & Grading		
Affected Area (Acres)	15	Equals trench length times 12 feet wide
Average Affected Thickness (Inch)	6	
Topsoil Volume (Yds ³)	11,739	
Unit Cost - Haul/Place/Grading (\$/Yds ³)	\$5.53	Price from Dragstrip Soil Cover Project MT
Sub Total - Topsoil	\$64,945	
B. Radiation Survey & Soil Analysis		
Unit Cost (\$/Arec)	\$664	
Sub Total - Survey & Analysis	\$9,661	
C. Spill Cleanup		
Affected Area (Acres)	0	
Affected Area (Ft ²)	0	
Affected Area Thickness (Ft)	0.25	
Affected Volume (Ft ³)	0	
Quantity per Truckload (Ft ³)	540	
Quantity to be Shipped (Loads)	0	
Distance (Miles)	160	
Transportation Cost per Ton/Mile	\$0.17	
Transportation Cost	\$0	
Handling Cost (\$/Load)	\$221	
Handling Cost	\$0	
Disposal Fee (\$/Ton)	\$387	
Disposal Cost	\$0	
Sub Total - Spill Cleanup	\$0	
D. Revegation		
Fertilizer (\$/Acre)	\$256.71	Price from Dragstrip Soil Cover Project MT
Seeding Prep & Seeding (\$/Acre)	\$251.18	Price from Dragstrip Soil Cover Project MT
Mulching & Crimping (\$/Acre)	\$110.65	Price from Dragstrip Soil Cover Project MT
Sub Total Cost/Acre	\$618.53	
Sub Total Revegation	\$9,001	
Sub Total - Wellfields	\$83,608	
TOTAL WELLFIELDS COST	\$83,608	
III Roads		
A. Topsoil Handling & Grading		
Affected Area (Acres)	3.44	2500 feet by 60 feet wide
Average Affected Thickness (Ins)	6	
Topsoil Volume (Yds ³)	2,778	
Unit Cost - Haul/Place/Grading (\$/cy)	\$5.53	Price from Dragstrip Soil Cover Project MT
Sub Total - Topsoil	\$15,368	
B. Radiation Survey & Soil Analysis		
Unit Cost (\$/Ac)	\$664	
Sub Total - Survey & Analysis	\$2,286	
C. Revegation		
Fertilizer (\$/Ac)	\$257	Price from Dragstrip Soil Cover Project MT
Seeding Prep & Seeding (\$/Ac)	\$251	Price from Dragstrip Soil Cover Project MT
Mulching & Crimping (\$/Ac)	\$111	Price from Dragstrip Soil Cover Project MT
Sub Total Cost/Acre	\$619	
Sub Total Revegation	\$2,130	
Sub Total - Roads	\$19,784	
TOTAL ROADS COST	\$19,784.15	

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Worksheet 6, Nos IV & V

TOPSOIL REPLACEMENT & REVEGETATION

Cost Item	Mining Unit	Notes
	Nichols #1	
IV Other		
A. Topsoil Handling & Grading		
Affected Area (Acres)	0	
Average Affected Thickness (Inch)	3	
Topsoil Volume (Yds ³)	0	
Unit Cost - Haul/Place/Grading (\$/Acre)	\$5.53	Price from Dragstrip Soil Cover Project MT
Sub Total - Topsoil	\$0	
B. Radiation Survey & Soil Analysis		
Unit Cost (\$/Acre)	\$664	
Sub Total - Survey & Analysis	\$0	
C. Revegation		
Fertilizer (\$/Ac)	\$256.71	Price from Dragstrip Soil Cover Project MT
Seeding Prep & Seeding (\$/Acre)	\$251.18	Price from Dragstrip Soil Cover Project MT
Mulching & Crimping (\$/Acre)	\$110.65	Price from Dragstrip Soil Cover Project MT
Sub Total Cost/Acre	\$618.53	
Sub Total Revegation	\$0	
Sub Total - Other	\$0	
TOTAL OTHER COST	\$0	
V Remedial Action		
A. Topsoil Handling & Grading		
Affected Area (Acres)	0	Assume no spills
Average Affected Thickness (Inch)	3	
Topsoil Volume (Yds ³)	0	
Unit Cost - Haul/Place/Grading (\$/Yds ³)	\$5.53	Price from Dragstrip Soil Cover Project MT
Sub Total - Topsoil	\$0	
B. Radiation Survey & Soil Analysis		
Unit Cost (\$/Acre)	\$664	
Sub Total - Survey & Analysis	\$0	
C. Revegation		
Fertilizer (\$/Acre)	\$256.71	Price from Dragstrip Soil Cover Project MT
Seeding Prep & Seeding (\$/Acre)	\$251.18	Price from Dragstrip Soil Cover Project MT
Mulching & Crimping (\$/Arec)	\$110.65	Price from Dragstrip Soil Cover Project MT
Sub Total Cost/Acre	\$618.53	
Sub Total Revegation	\$0	
TOTAL REMEDIAL ACTION	\$0	
TOTAL TOPSOIL REPLACEMENT & REVEGETATION COST (Total of 7I through 7V)	\$133,151	

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Worksheet 7, Nos I - VII

MISCELLANEOUS RECLAMATION

Cost Item		Mining Unit Nichols #1	Notes
I	Fence Removal & Disposal		
	Quantity (Ft)	8,558	
	Cost of Removal/Disposal (\$/Ft)	\$0.39	Demolition Unit Cost per WDEQ Guideline No.12, App. H, 2013
	Cost of Removal/Disposal (\$)	\$3,338	
II	Powerline Removal & Disposal		
	Quantity (Ft)	160,460	Power to Wells, header houses. Other power already in place by CBM companies
	Cost of Removal/Disposal (\$/Ft)	\$0	Lines buried in pipe trenches. Excavation costs covered on Sheets 6I and 6III. Assume salvage of wire at no cost.
	Cost of Removal/Disposal (\$)	\$0	
III	Powerpole Removal & Disposal		
	Quantity	0	Overhead powerpoles and lines will remain in place for future gas production
	Cost of Removal/Disposal (\$/Each)	0	
	Cost of Removal/Disposal (\$)	\$0.00	
IV	Transformer Removal & Disposal		
	Quantity	0	Tri-County Electric will remove at no cost, WDEQ Guideline No.12, App. H
	Cost of Removal/Disposal (\$/Each)	0	
	Cost of Removal/Disposal (\$)	0	
V	Culvert Removal & Disposal		
	Quantity (Ft)	100	5, 20 ft culverts (\$139.12/20') WDEQ Guideline No.12, App. J 2013
	Cost of Removal/Disposal (\$/Ft)	\$7.44	
	Cost of Removal/Disposal (\$)	\$743.58	
VI	Guardrail Removal		
	Quantity (Ft)	0	None
	Cost of Removal/Disposal (\$/Ft)	\$7.19	
	Cost of Removal/Disposal (\$)	\$0	
VII	Low Water Stream Crossing		
	Quantity	0	None
	Cost of Removal/Disposal (\$/Each)	\$8,852	
	Cost of Removal/Disposal (\$)	\$0	
	TOTAL MISCELLANEOUS COST	\$4,081	