



Uranerz Energy Corporation
(an Energy Fuels Company)
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307-265-8900
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December 18, 2017

Mr. BJ Kristiansen, P.G.
Natural Resources Program Principal
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. Kristiansen,

Herewith are two copies of the 2017 Annual Report for the Uranerz Energy Corporation (Uranerz) Nichols Ranch ISR Project, Permit to Mine No. 778. Please note that data for reporting is captured from October 1, 2016 through September 30, 2017.

If you have any questions regarding the provided information, please contact me at 307-232-6680 or by email at bbonifas@energyfuels.com.

Sincerely,

Bernard Bonifas
Mine Manager
Uranerz Energy Corporation (an Energy Fuels Company)

Enclosures

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

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**Nichols Ranch ISR Project
WDEQ-LQD Annual Report
Permit to Mine No. 778
2017 Annual Report**

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 Guideline 4 document, “NonCoal In Situ 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 (an Energy Fuels Company)
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 21, 2016 – December 18, 2017. (**Note:** Data for reporting includes 4th Quarter 2016 through end of 3rd Quarter 2017, unless otherwise stated.)

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.

Bernard Bonifas, Mine Manager

Name and Title of Principal Executive Office or Authorized Agent

Signature of Principal Executive Officer or Authorized Agent Date

II. Mine Operations

A. Operating Wellfields

1. Identification maps and well completion details

Uranerz was approved to commence operations on April 15, 2014 by the Nuclear Regulatory Commission (NRC). Production commenced thereafter in Production Area #1 (PA#1). Production continued in Header Houses 1 through 8 during the reporting period. Production in Area #2 (PA#2) started March 2, 2017 and is ongoing. Figure 1 and Figure 1a in Appendix A depicts the wellfields in operation.

Appendix B contains the well completion details for both PA#1 and PA#2.

2. Deep disposal wells location

In addition to the wells for PA#1, Uranerz has two deep disposal wells, NICH-DW-1 and NICH-DW-4 which were approved for use through the WDEQ-WQD, Permit 10-392. The deep disposal wells are installed at Nichols Ranch in the vicinity of the Central Processing Plant (CPP). Figure 1b in Appendix A depicts the location of the two deep disposal wells.

B. Water Balance/Hydrology

1. Injection and production flow rates

The production and injection flow rates are automated and recorded continuously via electronic instrumentation at the Central Processing Plant and stored using Rockwell Historian.

According to WDEQ-LQD Mine (Operations) Plan Volume XIV Chapter 3.18.2 Annual Reporting:

The total quantity of recovery fluid injected and the total quantity of recovery fluid extracted for PA#1 during the reporting period are:

- Fluid injected: 1,038,097,644 gallons
- Fluid extracted: 1,043,836,415 gallons

The total quantity of recovery fluid injected and the total quantity of recovery fluid extracted for PA#2 during the reporting period are:

- Fluid injected: 116,687,906 gallons
- Fluid extracted: 116,269,235 gallons

The fluid data reported for PA#2 started on March 2, 2017 and therefore does not represent a 12 month monitoring. Also, the total fluid injected and extracted for PA#2 is calculated from summing the flow values for each individual injection and recovery well respectively connected to Header House 9. These values do not take into consideration the fact that a total of six (6) injection

wells and seven (7) recovery wells located in PA#1 (Header Houses 1 and 2 which border Header House 9) are injecting and extracting fluid into and out of the PA#2 (Header House 9) mining zone. An exact flow balance is not possible but an estimation shows:

- Total fluid injected from PA#1 to PA#2: 4,146,048 gallons
- Total fluid extracted from PA#2 to PA#1: 5,920,416 gallons.

Therefore, for PA#2 the total fluid injected is: 120,833,954 gallons and the total fluid extracted is: 122,189,651 gallons.

Considering the nine header houses as a whole, the total quantity of fluid injected and the total quantity of fluid extracted for PA#1 and PA#2 combined during the reporting period are:

- Fluid injected: 1,154,785,550 gallons
- Fluid extracted: 1,160,105,650 gallons

These values show that a bleed exists between the injected and extracted fluid in PA#1 and PA#2 combined. The water level data collected from the perimeter monitor wells of the production zone confirm that a cone of depression exists (see Section 2 and associated maps).

2. Potentiometric Surface Maps

During production, water levels are collected from monitor wells in the overlying, underlying and production zone aquifers twice a month. Using the water level data collected and in accordance with WDEQ-LQD Mine (Operations) Plan Volume XIV Chapter 3.18.2 Annual Reporting, potentiometric surface maps for each aquifer were created. The potentiometric surface maps for the production area, overlying and underlying zones for PA#1 and PA#2 combined area are provided respectively in Figures 2, 3 and 4 in Appendix A.

Production Zone (A Sand)

The September 2017 potentiometric surface map shown in Figure 2 indicates that overall the water level drawdown among the perimeter monitor wells during production in PA#1 and PA#2 forms a cone of depression in the production zone showing that the bleed is maintained.

Overlying Aquifer (B Sand)

The potentiometric surface of the overlying aquifer is illustrated in Figure 3. A comparison between the 2017 to 2016 data and figures shows little change in the past year with an average decrease of 0.75 feet. This data confirms that no fluid communication exists between the mining zone and the overlying aquifer in PA#1 and in PA#2.

Underlying Aquifer (1 Sand)

The potentiometric surface of the underlying aquifer is illustrated in Figure 4. A comparison between the 2017 to 2016 data and figures shows little change with an average decrease of 1.9 feet. This data confirms that no fluid communication exists between the mining zone and the underlying aquifer in PA#1 and in PA#2.

3. Wastewater Stream

The two deep disposal wells at the Nichols Ranch Unit, NICH DW-1 and NICH DW-4, were permitted for use by the WDEQ-WQD (Permit 10-392) for the purpose of disposing of the wellfield bleed to maintain a hydrologic inward gradient during production. The deep disposal wells were utilized starting in April 2014. Quarterly and annual reports pertaining to the use of the deep disposal wells are submitted to the WDEQ-WQD. Between the 4th Quarter 2016 and 3rd Quarter 2017 reports to WDEQ-WQD, 9,975,782 gallons have been disposed of using the two deep wells.

C. Spills

Reportable spills for this Annual Report include releases occurring between October 2016 and September 2017. Uranerz reported three unplanned reportable releases within the period. The appropriate verbal and written notifications were submitted to WDEQ-LQD, WQD and NRC as required. Table 1 in Appendix C summarizes the information regarding the unplanned releases. In accordance with Volume XIV, Section 3.18.2 of the Mine Plan, Figure 5 in Appendix A depicts the reported unplanned release location along with previous years' releases as required by the permit.

D. Excursions

Uranerz has no excursions to report for the period.

E. Mechanical Integrity Testing Results for Existing Wells

Mechanical Integrity Test (MIT) 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 222 wells were reported to have been tested for casing integrity between 4th Quarter 2016 and 3rd Quarter 2017. Nine wells among the 222 tested failed MIT; 213 passed MIT.

Seven of the nine wells that failed MIT were plugged and abandoned in the reporting period. Plugging and abandonment was performed in accordance with Permit to Mine No. 778, Volume XIV, Mine Plan Section 3.8 and Wyoming Statute 35-11-404. Two additional wells were plugged and abandoned in November 2017 according to a well abandonment procedure modification approved by WDEQ in Sheridan on October 3, 2017. Although the plugging and abandonment of these two wells didn't occur within the reporting period, WDEQ staff in Sheridan requested the inclusion of these activities in this report. 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 Permit to Mine No. 778, and Mine Plan Section 3.12, which requires at least a six (6) inch topsoil salvage depth.

Topsoil stockpile #11, as reported in the 2016 Annual Report, was created in conjunction with the development of Header House 9 in PA#2. This topsoil stockpile has been re-placed on top of the Header House 9 wellfield area subsoil and seeded in June 2017. Therefore, it has been removed from Table 2, in Appendix C, of long-term topsoil stockpiles.

Topsoil stockpile #12 in PA#2 was salvaged from the Header House 10 area. Because development of Header House 10 has been deferred for the foreseeable future, the #12 topsoil stockpile will remain in place until Header House 10 is developed. Topsoil stockpile #12 has been bermed, contoured, seeded and signed. Seeding of the stockpile was performed during spring 2017.

One new topsoil stockpile, #13 in PA#2, was salvaged from the Header House 9 building location and has been bermed, contoured, seeded and signed. Seeding of the stockpile was performed July 2017.

In order to reduce erosion of the exposed subsoil located at the future Header House 10 area, the surface has been re-contoured and hydro-mulched and was seeded in June 2017. As discussed and agreed with WDEQ-LQD personnel on October 19, 2016 and again during a meeting with WDEQ-LQD personnel held December 8, 2016 in Sheridan, any vegetation growth in the interim does not classify the seeded subsoil as topsoil. To clarify, upon resuming drilling, well installation, and construction, all of the Header House 10 area that has been reseeded in 2017 will be considered subsoil and will not require topsoil salvage.

Table 2 in Appendix C contains the volume information for the long term topsoil stockpiles at the Nichols Ranch Unit. Figure 6 in Appendix A depicts the long term topsoil stockpiles and the surface disturbance.

Subsoil

No new subsoil piles were stockpiled during the reporting period.

2. New Building Construction

One new building, Header House 9, was constructed during the reporting period. This header house was constructed using an internal sump in lieu of a concrete basement. Utilizing this construction is beneficial to the safety of employees because it removes the confined space and reduces the amount of concrete disposal at the end of the project. Table 6 in Appendix C tabulates building construction activities.

3. New Pond Construction

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

4. New Roads and Utilities

Pipelines and an electrical line were placed for Header House 9 during wellfield development activities. One access road was installed to Header House 9 from the access road of Header House 1. The new road is illustrated on Figure 7 in Appendix A and is classified as a Secondary Access Road in accordance with Section 3.11 of the Mine Plan.

5. Other

No delineation drilling occurred during the reporting. Section IV of this Annual Report contains additional drill hole discussion.

To manage storm water drainage, 150 feet of culvert was added in the wellfield areas this reporting period.

A small leach field permitted through Johnson County was installed for the workforce housing.

Table 3 in Appendix C tabulates surface disturbance acreage by year and location. The disturbed areas are illustrated in Figure 6 of Appendix A.

G. New Wells/Wellfields Installed During the Reporting Period

Wellfield development is performed according to Volume XIV, Section 3.1 of the Mine Plan. Wellfield development occurred in PA#2, Header House 9 during the reporting period. Well completion details are located in Appendix B. PA#2 is depicted in Figure 1a of Appendix A. There are 45 monitor wells accounted for in PA#2. As of September 30, 2017, a total of 122 Recovery and Injection wells in PA#2, Header House 9 were installed.

H. Class III Well Stimulation

Uranerz continues to utilize well stimulation to improve well flow in accordance with Volume XIV, Section 3.3.3 of the Mine Plan. Four hundred eighty-five (485) wells were swabbed during the reporting period. Appendix D contains a list of the wells, the date, and the technique used.

I. Environmental Monitoring

1. Groundwater Monitoring

Production Monitoring

Production monitoring commenced after wellfield PA#1 was brought into production in April 2014. There are a total of 55 monitor wells sampled for PA#1. It is important to note that 3 of the 33 original PA#1 perimeter monitor wells were removed from the

perimeter monitor wells ring list because they were inside or in close proximity of Header House 9 production zone. The removal of the three perimeter wells is described in the Production Area #2 pump test document dated July 20, 2016 and approved by WDEQ-LQD in November 17, 2016. Therefore, when production of Header House 9 started on March 2, 2017, sampling of the 3 perimeter monitor wells referenced above ceased.

Production Area #2 (PA#2) has a total of 45 perimeter monitoring wells. Until additional wellfield development occurs in PA#2, only the perimeter monitor wells located around Header House 9 are sampled as approved by WDEQ-LQD Sheridan as Change No. 20 on February 14, 2017.

Production well monitoring is performed according to Volume XIV, Mine Plan, Section 3.14.7.8.10.1. All analytical monitoring data and water levels have been submitted to the WDEQ-LQD in quarterly reports per Section 3.18.1 of the Mine Plan.

Livestock/Domestic Wells

Groundwater samples were collected from livestock and domestic wells in accordance with the WDEQ-LQD Mine Plan Section 3.14.7.7.3 and NRC License SUA-1597 Condition 11.7. The groundwater quality results for these wells are reported in the NRC Semi-Annual Report and are not reported until January 2017; therefore, results are shown for 2016 and 2017 time periods. The analytical results are consistent with previous sampling data.

2. Surface Water Monitoring

Per Section 3.14.7.7.3.1 of the Mine Plan, surface water samples are collected from the following locations: Cottonwood Creek Upstream and Cottonwood Creek Downstream and are represented in Figure 8 of Appendix A. The water samples are grab samples collected after runoff events. Grab samples from the surface water sampling locations were collected at various times during the reporting period. Per the Mine Plan, surface water is analyzed for total uranium, Th-230, Ra-226, and Pb-210. Samples were collected June 12, 2017 and are reported in the table below.

Location	Natural Uranium		Th-230		Ra-226		Pb-210	
	Conc. ($\mu\text{Ci/mL}$)	RL ($\mu\text{Ci/mL}$)	Conc. ($\mu\text{Ci/mL}$)	RL ($\mu\text{Ci/mL}$)	Conc. ($\mu\text{Ci/mL}$)	RL ($\mu\text{Ci/mL}$)	Conc. ($\mu\text{Ci/mL}$)	RL ($\mu\text{Ci/mL}$)
Cottonwood Upstream	6.17E-08	2.03E-10	1.00E-10	2.00E-10	1.00E-09	2.00E-10	9.00E-10	1.00E-09
Cottonwood Downstream	3.91E-08	2.03E-10	2.00E-10	2.00E-10	2.40E-09	2.00E-10	5.00E-10	1.00E-09

In March 2017, the permit amendment was approved which incorporated Jane Dough into the Nichols Ranch permit. There was no operational activity at the Hank or Jane Dough units during the reporting period. Operational monitoring of these units is deferred until operations commence.

3. Wildlife Surveys

In accordance with Section 3.18.2 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, 2017 by Wildlife Resources LLC. A copy of the survey report and results are in Appendix E.

J. Deviations or Unanticipated Events or Conditions

1. Deviations

Two wells that failed MIT have been plugged and abandoned in November 2017, according to Permit to Mine No. 778, Volume XIV, Mine Plan Section 3.8 and Wyoming Statute 35-11-404 and according to a well abandonment procedure modification approved by WDEQ Sheridan on October 3rd, 2017.

2. Unanticipated Events or Conditions

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

K. Projected Operations

Figure 9 in Appendix A depicts the projected production, restoration and reclamation schedule. Uranerz does not plan any construction or new operations during 2018 at any mine units.

III. RECLAMATION/RESTORATION ACTIVITIES

A. Groundwater Restoration Activities

No groundwater restoration activities occurred during the reporting period.

B. Well Plugging and Abandonment Activities

PA#1 and PA#2 are the active wellfields at the Nichols Ranch Unit. A total of seven (7) wells were plugged and abandoned during the reporting period. Wells are plugged and abandoned according to Permit to Mine No. 778, Volume XIV, Mine Plan Section 3.8 and Wyoming Statute 35-11-404. Two additional wells were plugged and abandoned in November 2017 according to a well abandonment procedure modification approved by WDEQ on October 3, 2017. Although the plugging and abandonment of these two wells didn't occur within the reporting period, WDEQ staff in Sheridan requested the inclusion of these activities in this Annual Report. Well abandonment records are maintained on file at the project site. Table 4 in Appendix C is a tabulation of the wells abandoned during the reporting period. In accordance with the Mine Plan, Section 3.18.2 a copy of abandoned wells will be sent to the Wyoming State Engineer's Office.

C. Surface Reclamation Activities Past and Present

Surface reclamation is carried out per Section 3.1 of the Reclamation Plan. Table 5 in Appendix C tabulates the surface reclamation activities occurring by year. Figure 10 in Appendix A shows the areas of surface reclamation for the year. There are two types of

surface reclamation: Temporary and Final. Final reclamation occurs during decommissioning of mining activities i.e. final reclamation.

In the interim of mining, Uranerz temporarily reclaims (stabilizes) disturbed areas to preserve soil and promote a healthy environment. Temporarily reclaimed areas have had topsoil replaced and were seeded. Temporary surface reclamation activities during the reporting period included:

- Re-contouring, topsoil placement with topsoil stockpile #11, and seeding of Header House 9, PA#2.
- Re-contouring, topsoil placement, and seeding of the Header House 9 Trunkline, PA#2.
- Re-contouring, topsoil placement, and seeding of the Workforce Housing Leach Field disturbed area.

Weed spraying activities were performed by Uranerz and occurred in July 2017. Noxious weeds such as thistle and broad leaf weeds were targeted. The areas sprayed include:

- inside the fenced area of the CPP,
- wellfield PA#1 including around monitor wells,
- spot spraying around the DDW pads and
- the turnaround area.

Spot spraying was also done along various roads.

No reclamation activities occurred at the Hank and Jane Dough units during the reporting period.

D. Deviations or Unanticipated Events or Conditions

There were no deviations or unanticipated events or conditions with regard to reclamation or restoration during the reporting period.

IV. DRILL HOLE REPORTING

A. Drill Hole Map

Because there was no delineation during the reporting period, a drill hole figure is unnecessary for this Annual Report.

B. Drill Hole Tabulation

Delineation is performed and tracked as discussed with WDEQ-LQD and outlined in the letter from WDEQ-LQD dated September 25, 2014. No delineation drilling occurred during the reporting period and therefore there are no new drill holes to report. Uranerz submitted its last Delineation Drilling Abandonment and Reclamation Report to LQD under cover letter dated February 28, 2017. The holes from this report were inspected by LQD during the July 20, 2017 Annual Inspection and the bond amount should be rolled over.

C. Drill Hole Disturbance and Reclamation

Surface disturbance from drilling entails temporary removal of topsoil for mud pits and subsoil. Surface disturbance is shown in Figure 6 in Appendix A as a general area versus a by site area and includes disturbances from wellfield development and delineation drilling activities. Once delineation holes are abandoned, the mud pit is allowed to settle and dry. The pit is then backfilled and the ground surface is contoured in preparation for seeding. There was no disturbance resulting from delineation drilling to report during this annual period.

D. Drill Hole Seeding

Because delineation drilling precedes wellfield development and well installation within a short period of time (i.e. days, a few weeks), seeding of delineation drill hole locations occurs in correlation with the temporary reclamation of the wellfield area after the area is developed. Seeding activities are tabulated in Table 5 in Appendix C. Section III.C describes the surface reclamation activities.

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, by worksheet, of adjustments made to the bond estimate.

The current performance bond accounts for construction and start-up of the Nichols Unit CPP, associated facilities, restoration of PA#1 and PA# 2, various activities for the 2018 year, and reclamation of the 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. The 2017 estimate amount of \$6,220,000 was recently approved by letter dated October 11, 2017. The 2018 estimate is \$6,373,789 which is \$153,789 higher than the approved amount.

Surety Summary Page

The table below is a summary cost comparison between the 2017 and 2018 estimates. There were minimal changes this last year due to curtailed production.

The main changes were a result of updating the Master Cost Sheet and Consumer Price Index (CPI). The Master Cost sheet has been updated to Guideline 12 (2/2017) prices as relevant. The CPI adjustment was updated for costs 2013-2017 and applied as necessary. Changes are described by page following the table.

Cost Item	2018 Cost	2017 Cost	Change
GROUNDWATER RESTORATION COST	\$3,189,035	\$3,085,754	\$103,281
PLANT EQUIPMENT REMOVAL AND DISPOSAL COST	\$114,748	\$113,472	\$1,276
BUILDING DEMOLITION AND DISPOSAL COST	\$1,322,370	\$1,307,665	\$14,705
SOIL REMOVAL & DISPOSAL COST	\$82,262	\$78,473	\$3,789
TOTAL WELL ABANDONMENT COST	\$564,055	\$561,537	\$2,518
WELLFIELD EQUIPMENT REMOVAL & DISPOSAL COST	\$164,883	\$164,246	\$637
TOPSOIL REPLACEMENT & REVEGETATION COST	\$97,145	\$90,769	\$6,376
MISCELLANEOUS RECLAMATION COST	\$7,927	\$6,717	\$1,210
*Not including 15% Unknown Contingency			

Worksheet 1, No. I, No. II, No. III, Nos. IV & VI, Nos. VII, VIII & Summary

The CPI adjustment and costs tied to the Master Cost Sheet were updated only. No new additions or modifications to the worksheets were made for this estimate.

Worksheets 2a, 2b, 3, and 4

The CPI adjustment and costs tied to the Master Cost Sheet were updated only. No new additions or modifications to the worksheets were made for this estimate.

Worksheet 5, No. I, No. II, No. III, and No. IV

Only Worksheet No. III, Production area #2, Section III(A) Buried Trunkline Removal was adjusted to account for more accurate trunkline

- Length of Trunkline Trench was increased by 2 ft.
- Length of 8" HPDE Trunkline was reduced by 200 ft.
- Length of 10" HPDE Trunkline was reduced by 8 ft.

The CPI adjustment and costs tied to the Master Cost sheet were updated for these worksheets.

Worksheet 6, No. I, Nos. II & III, Nos. IV & V

Worksheet 6, Nos. II & III Section C Spill Clean up for Production Area #1 was updated to include this past year's affected acreage.

The CPI adjustment and costs tied to the Master Cost sheet were updated for these worksheets.

Worksheet 7

Section IV Culvert Quantity was increased for Production Area #1 by 90 feet and Production Area #2 by 60 ft.

The CPI adjustment and costs tied to the Master Cost sheet were also updated for this worksheet.

VI. ADDITIONAL INFORMATION REQUESTED BY THE DIVISION

A. Maps

Eleven maps were prepared for this Annual Report. The maps are located in Appendix A and include:

- Figure 1-Production Area 1 Well Locations
- Figure 1a-Production Area 2 Well Locations
- Figure 1b-Deep Disposal Well Locations
- Figure 2-Potentiometric Surface Map Production Zone
- Figure 3-Potentiometric Surface Map Overlying Zone
- Figure 4-Potentiometric Surface Map Underlying Zone
- Figure 5-Unplanned Releases
- Figure 6-Surface Disturbance
- Figure 7-Site Layout
- Figure 8-Nichols Ranch Unit Monitoring Locations
- Figure 10-Surface Reclamation

B. Typical Lixiviant Solution Composition

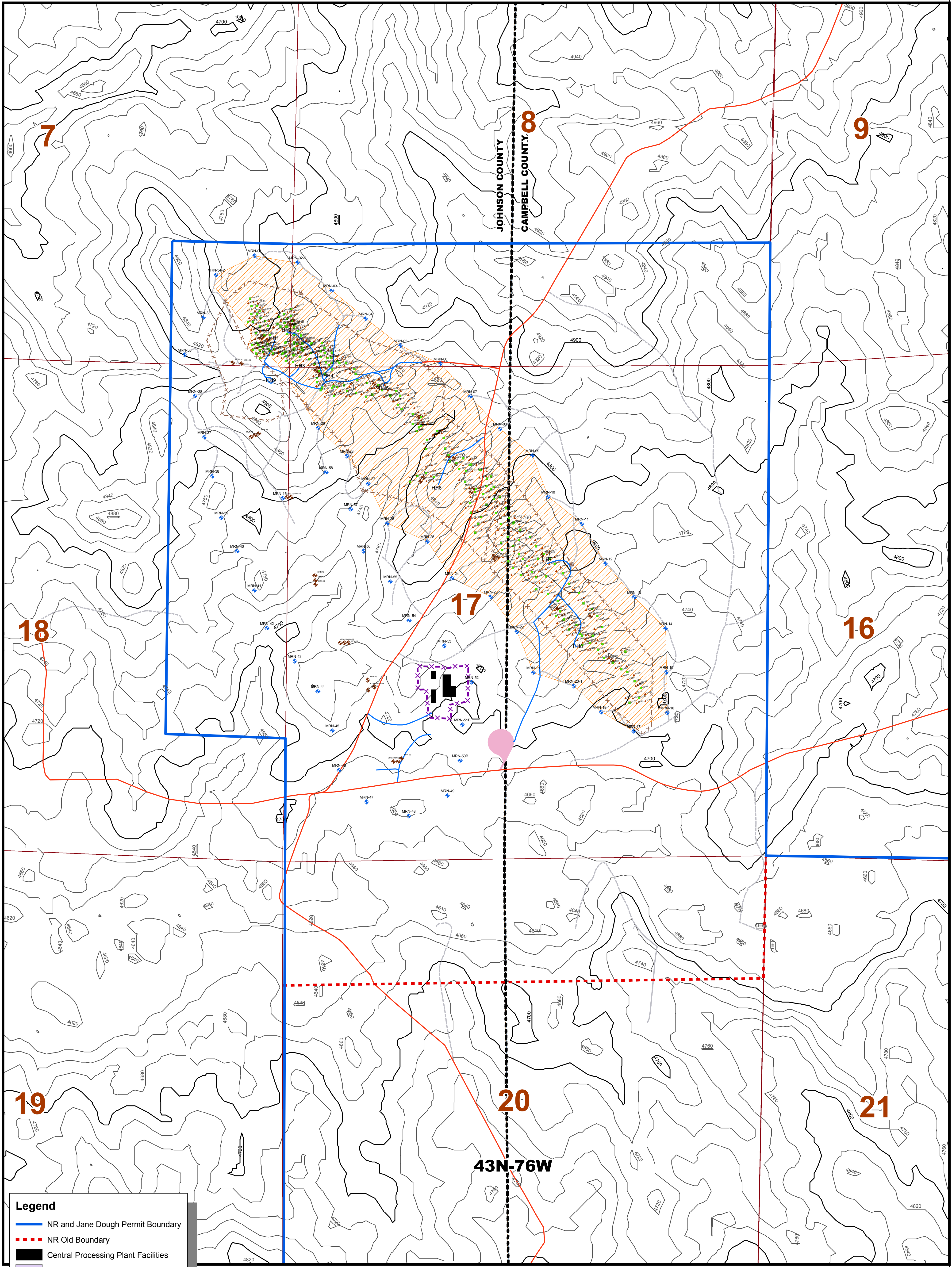
According to the Mine Plan, Section 3.18.2 Uranerz will review and update the lixiviant composition annually. Uranerz collects monthly lixiviant injection fluid samples. The analysis of the samples is submitted in the quarterly reports. The lixiviant composition has not changed and therefore does not need to be updated at this time.

C. Electronic Data

A full electronic version of this report will be provided and no additional electronic data will be provided on CD as in the past.

Appendix A

Figures



Legend

NR and Jane Dough Permit Boundary

NR Old Boundary

Central Processing Plant Facilities

Header Houses

Production Area #1

Silo Access Area

Monitor Ring Wells

Interior Monitor Wells

Recovery Wells

Injection Wells

Plant Fence

Wellfield Fence

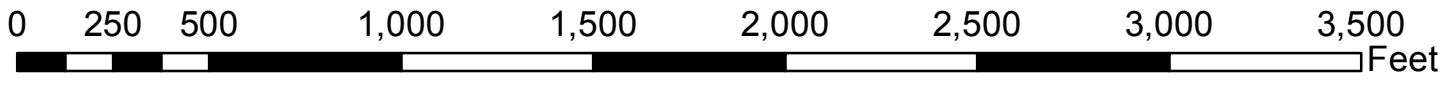
Primary Access Roads

Secondary Access Roads

Two Track Roads

Section Lines

County Line



1701 EAST "E" STREET P.O. BOX 50850
CASPER, WYOMING, USA 82505-0850
PHONE: 307.265.8900, FAX: 307.265.8904

Nichols Ranch ISR Project
PERMIT TO MINE #778

FIGURE 1
PRODUCTION AREA #1 WELL LOCATIONS

WDEQ-LQD ANNUAL REPORT
OCTOBER 1, 2016 - SEPTEMBER 30, 2017

BY: A. EVENSON

Countour Interval: 20'

Scale: 1 inch = 500 feet

Date: 11/28/2017

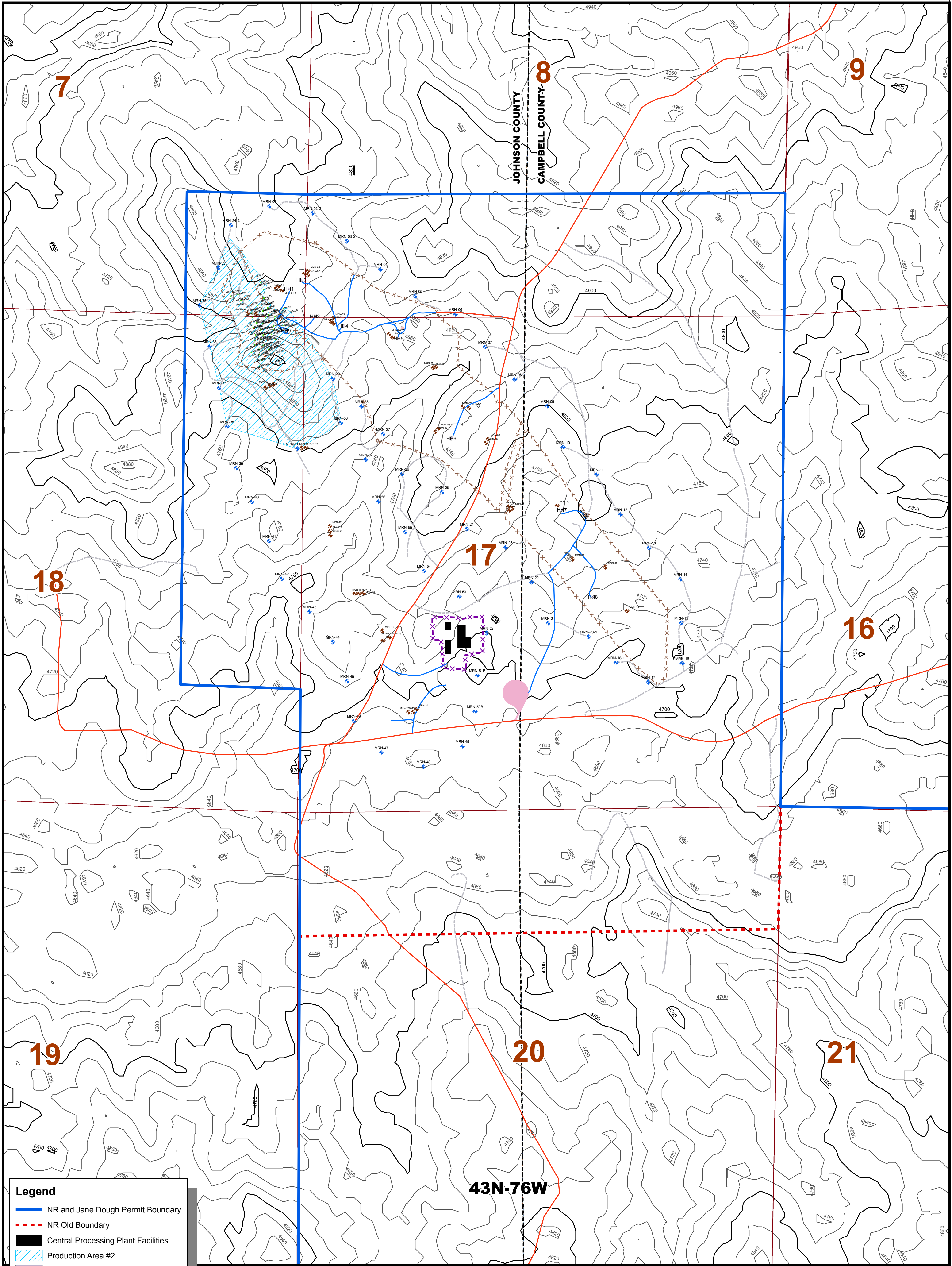
Revision Date: REV-6

Dwg: Datum: UTM 1927 ZONE 13

PAPER SIZE 22"x34"

Exhibit Number: FIGURE-1

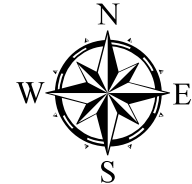
Document Path: T:\IT\Drafting\Annual Reports WDEQ-LQD(11-12-2013)\2016-2017\GIS Working Files\Figure-1 REV-6 (11-28-2017) PA1 Well Locations Final.mxd




Legend

- NR and Jane Dough Permit Boundary
- NR Old Boundary
- Central Processing Plant Facilities
- Production Area #2
- Header Houses
- Silo Access Area
- 11e-2 Staging Area
- Monitor Ring Wells
- Interior Monitor Wells
- Recovery Wells
- Injection Wells
- Plant Fence
- Wellfield Fence
- Primary Access Roads
- Secondary Access Roads
- Two Track Roads
- Section Lines
- County Line

0 250 500 1,000 1,500 2,000 2,500 3,000 3,500 Feet

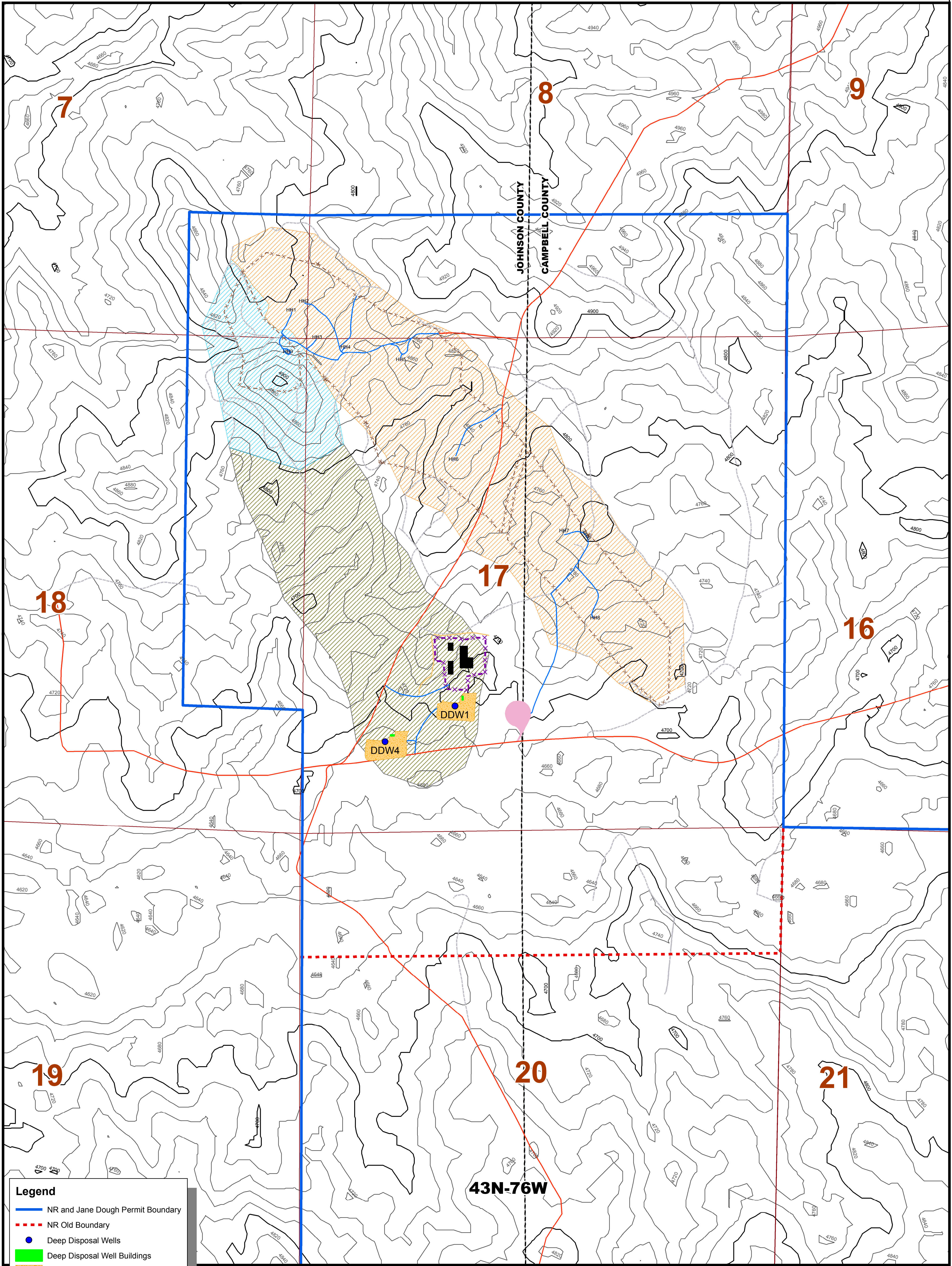




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Nichols Ranch ISR Project
PERMIT TO MINE #778
FIGURE 1a
PRODUCTION AREA #2 WELL LOCATIONS
WDEQ-LQD ANNUAL REPORT
OCTOBER 1, 2016 - SEPTEMBER 30, 2017

BY: A. EVENSON	Date: 11/28/2017
Countour Interval: 20'	Revision Date: REV-6
Scale: 1 inch = 500 feet	Dwg: Datum: UTM 1927 ZONE 13
PAPER SIZE 22"x34"	Exhibit Number: FIGURE-1a



Legend

NR and Jane Dough Permit Boundary

NR Old Boundary

Deep Disposal Wells

Deep Disposal Well Buildings

Nich DW-1 & DW-4 & Staging Area

Header Houses

Production Area #1

Production Area #2

Future Production Area

Silo Access Area

Central Processing Plant Facilities

Primary Access Roads

Secondary Access Roads

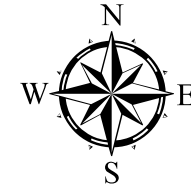
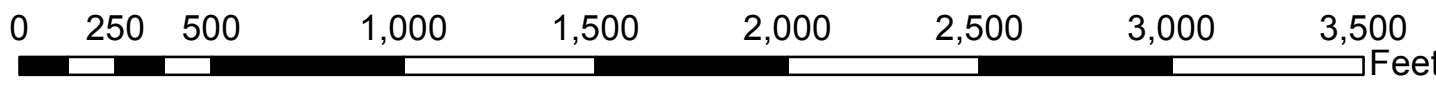
Two Track Roads

Plant Fence

Wellfield Fence

Section Lines

County Line



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FIGURE 1b
DEEP DISPOSAL WELL LOCATION

WDEQ-LQD ANNUAL REPORT
OCTOBER 1, 2016 - SEPTEMBER 30, 2017

BY: A. EVENSON

Countour Interval: 20'

Scale: 1 inch = 500 feet

Date: 11/28/2017

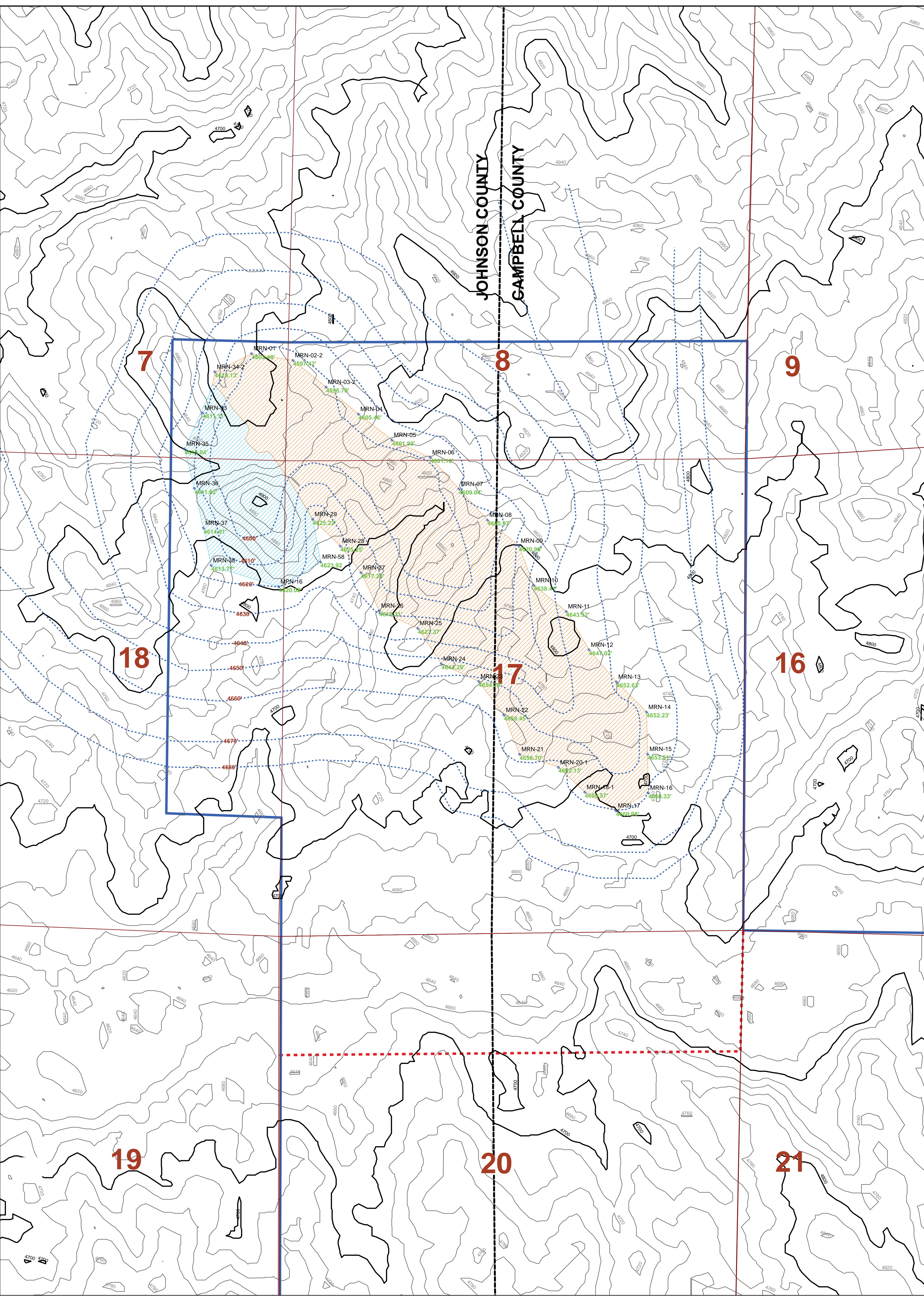
Revision Date:

Dwg: Datum: UTM 1927 ZONE 13

PAPER SIZE 22"x34"

Exhibit Number: FIGURE-1b

Document Path: T:\TIDrafting\Annual Reports WDEQ-LQD(11-12-2013)\2016-2017\IGIS Working Files\Figure-1b (11-28-2017) DDW Locations Final.mxd



Legend

NR and Jane Dough Permit Boundary

NR Old Boundary

Production Area #1

Production Area #2

4602.48

MRN Potentiometric Levels

Monitor Ring Wells

MRN Potentiometric Contours

County Line

Topo Major Contour 100ft

Topo Minor Contour 20ft


0

875

1,750

3,500

Feet



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Nichols Ranch ISR Project

PERMIT TO MINE #778

FIGURE 2

POTENTIOMETRIC SURFACE MAP PRODUCTION ZONE

PRODUCTION AREAS 1 AND 2

WDEQ-LQD ANNUAL REPORT

OCTOBER 1, 2016 - SEPTEMBER 30, 2017

BY: A. EVENSON

Date: 11/28/2017

Countour Interval: 20'

Revision Date: REV-4

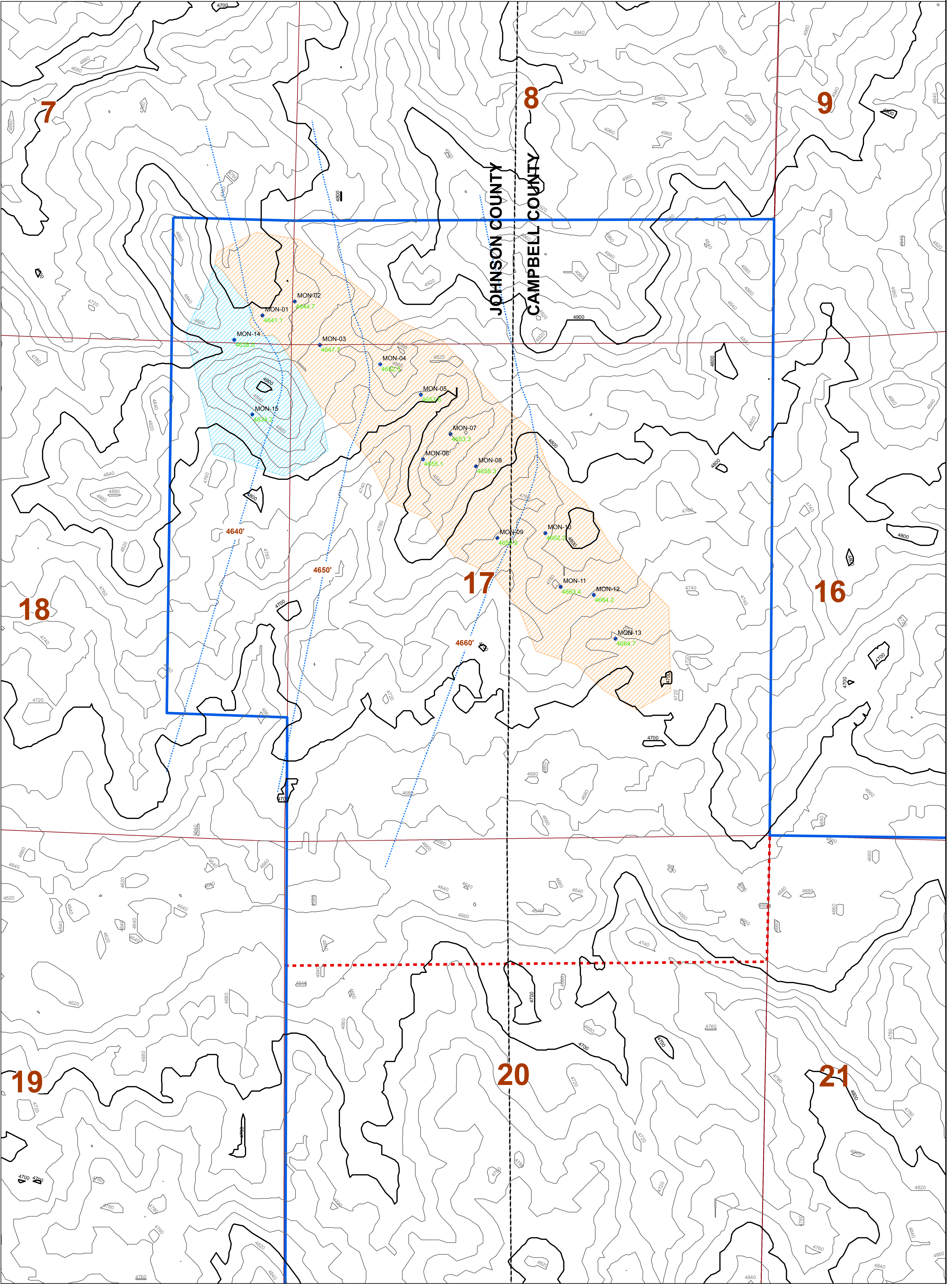
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Dwg: Datum: UTM 1927 ZONE 13

PAPER SIZE 22"x34"

Exhibit Number: FIGURE-2

Document Path: T:\IT\Drafting\Annual Reports WDEQ-LQD(11-12-2013)\2016-2017\GIS Working Files\Figure-2 Rev 4 Potentiometric Surface Map (12-05-2017) Production Final.mxd



Legend

NR and Jane Dough Permit Boundary

NR Old Boundary

Production Area #1

Production Area #2

4593.2

MON Potentiometric Levels

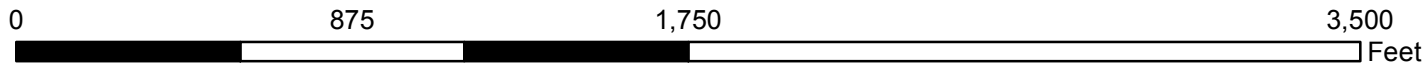
Overlying Monitor Wells

MON Potentiometric Contours

County Line

Topo Major Contour 100ft

Topo Minor Contour 20ft



ENERGY FUELS RESOURCES

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Nichols Ranch ISR Project
PERMIT TO MINE #778
FIGURE 3
POTENTIOMETRIC SURFACE MAP OVERLYING ZONE
PRODUCTION AREAS 1 AND 2

WDEQ-LQD ANNUAL REPORT
OCTOBER 1, 2016 - SEPTEMBER 30, 2017

BY: A. EVENSON

Countour Interval: 20'

Scale: 1 inch = 500 feet

Date: 11/28/2017

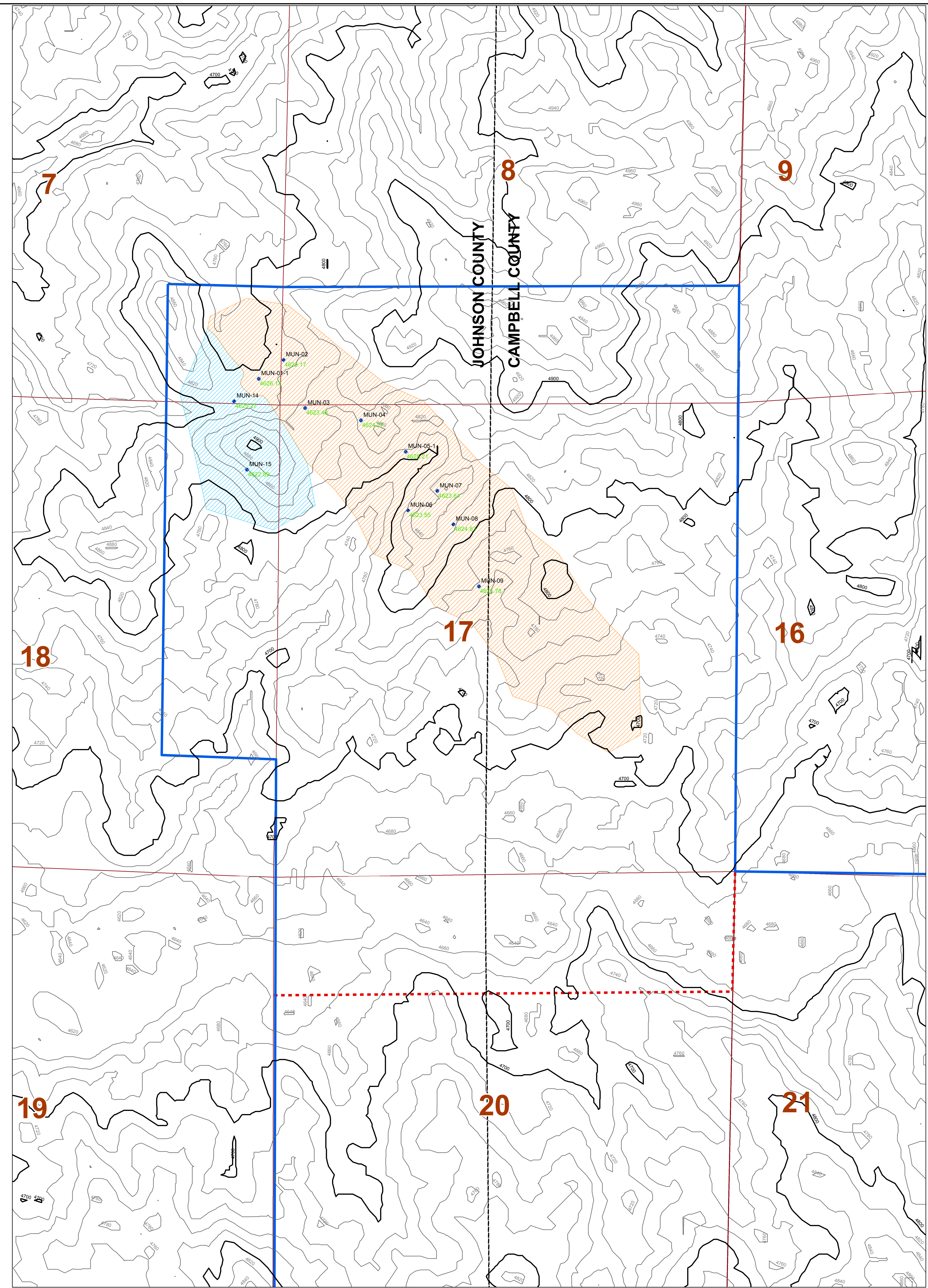
Revision Date: REV-4

Dwg: Datum: UTM 192T ZONE 13

PAPER SIZE 22"x34"

Exhibit Number: FIGURE-3

Document Path: T:\IT\Drafting\Annual Reports WDEQ-LQD(11-12-2013)\2016-2017\GIS Working Files\Figure-3 Rev 4 Potentiometric Surface Map (12-05-2017) Overlying Final.mxd



Legend

NR and Jane Dough Permit Boundary

NR Old Boundary

Production Area #1

Production Area #2

4593.2

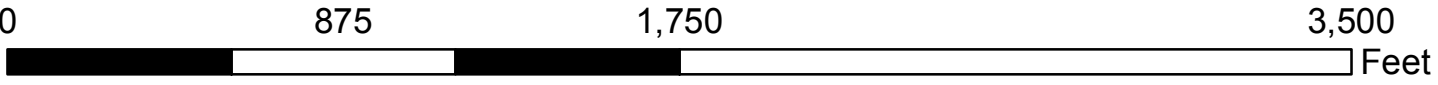
MUN Potentiometric Levels

Overlying Monitor Wells

County Line

Topo Major Contour 100ft

Topo Minor Contour 20ft



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Nichols Ranch ISR Project
PERMIT TO MINE #778
FIGURE 4
POTENTIOMETRIC SURFACE MAP UNDERLYING ZONE
PRODUCTION AREAS 1 AND 2

WDEQ-LQD ANNUAL REPORT
OCTOBER 1, 2016 - SEPTEMBER 30, 2017

BY: A. EVENSON

Countour Interval: 20'

Scale: 1 inch = 500 feet

Date: 11/28/2017

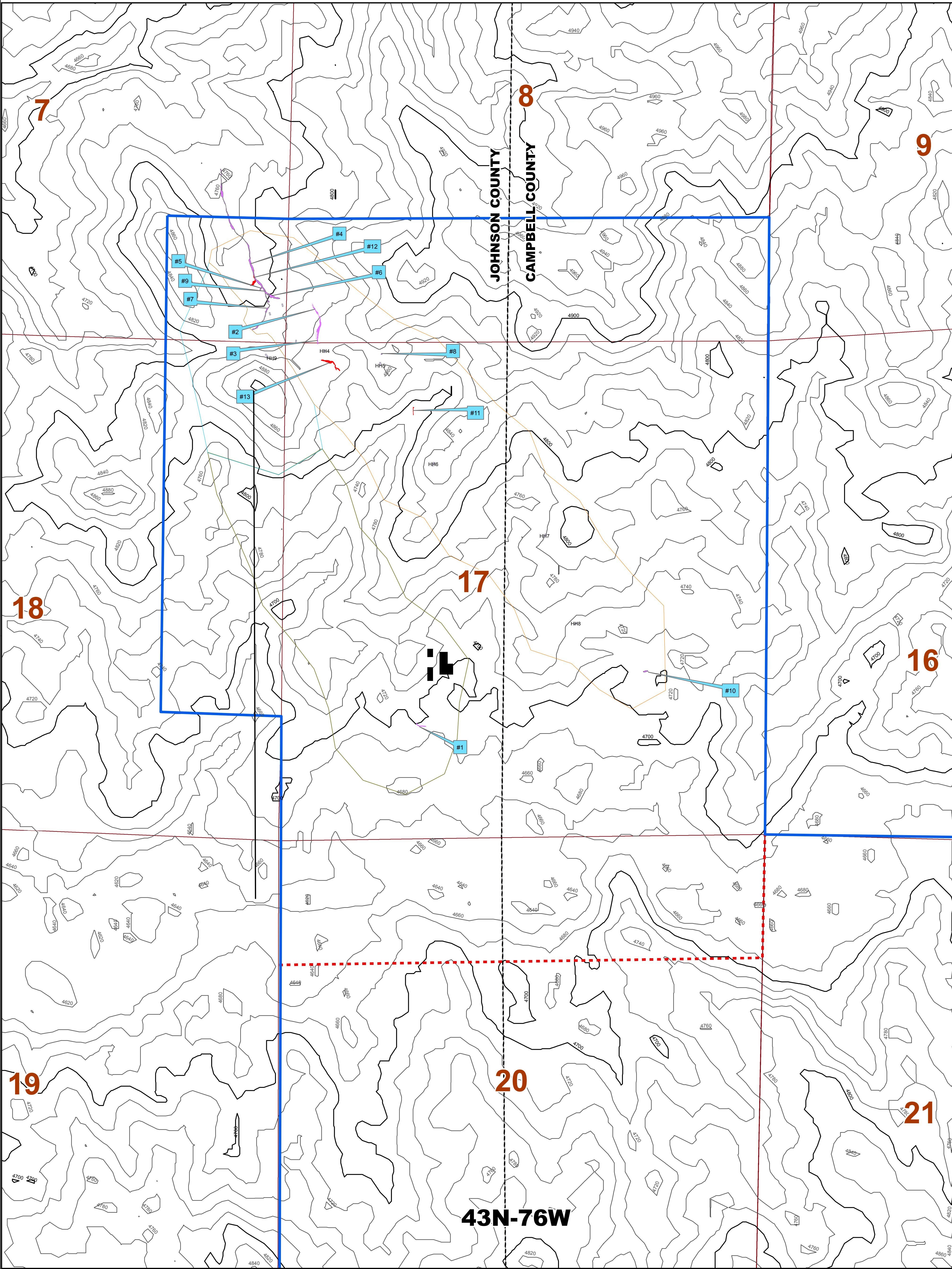
Revision Date: REV-4

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PAPER SIZE 22"x34"

Exhibit Number: FIGURE-4

Document Path: T:\IT\Drafting\Annual Reports WDEQ-LQD(11-12-2013)\2016-2017\GIS Working Files\Figure-4 Rev 4 Potentiometric Surface Map (12-05-2017) Underlying Final.mxd



Legend

NR and Jane Dough Permit Boundary

NR Old Boundary

2013-2016 SPILLS

2016-2017 SPILLS

Production Area #1

Production Area #2

Future Production Area

Header Houses

Central Processing Plant Facilities

Section Lines

County Line

NAME	MAP #	DATE	GALLONS	AREA (sq. ft)	EASTING	NORTHING
DWW PAD	1	10/13/2013	500	335.91	1370085.2	15874011.5
N1B-052	2	6/5/2014	2542	4077.62	1368981.2	15878253.6
N1C-003-1	3	6/17/2014	740	2914	1368993.5	15878193.1
N1A-002	4	7/17/2014	20219	14056	1368307.8	15878832.8
N1A-002	5	9/8/2014	12000	6958	1368307.8	15878832.8
N1B-034	6	11/2/2014	1745	342	1368782.4	15878465.4
N1B-095	7	12/2/2014	606	2869	1369171.8	15878209.1
HH5 AREA	8	10/20/2015	45	136	1369682.6	15877971.3
N1B-078	9	11/5/2015	655	1751	1369091.2	15878432.8
EH102	10	8/11/2016	673	612	1372607.8	15874588.9
CI043B	11	11/15/2016	55	245	1370050.1	15877494.7
N1A-007	12	12/7/2016	2800	3006	1368256.6	15878834.5
N1C-047	13	6/12/2017	4500	3385	1369035.0	15878013.0

ENERGYFUELS RESOURCES

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Nichols Ranch ISR Project
PERMIT TO MINE #778

FIGURE 5
UNPLANNED RELEASES

WDEQ-LQD ANNUAL REPORT
OCTOBER 1, 2016 - SEPTEMBER 30, 2017

BY: A. EVENSON

Date: 11/20/2017

Countour Interval: 20'

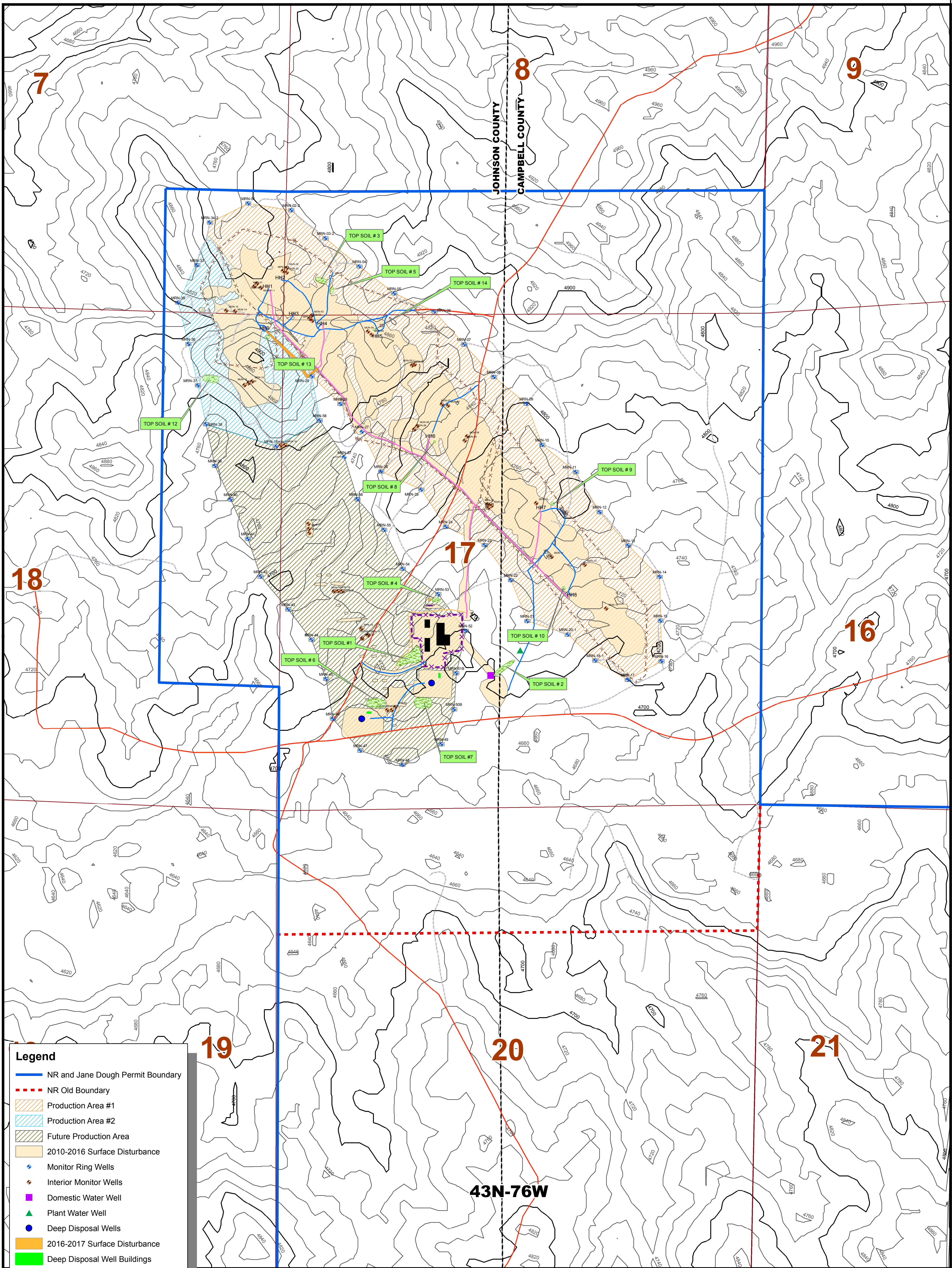
Revision Date: REV-6

Scale: 1 inch = 500 feet

Dwg: Datum: UTM 192T ZONE 13

PAPER SIZE 22"x34"

Exhibit Number: FIGURE-5



- Legend**
- NR and Jane Dough Permit Boundary
 - NR Old Boundary
 - Production Area #1
 - Production Area #2
 - Future Production Area
 - 2010-2016 Surface Disturbance
 - Monitor Ring Wells
 - Interior Monitor Wells
 - Domestic Water Well
 - Plant Water Well
 - Deep Disposal Wells
 - 2016-2017 Surface Disturbance
 - Deep Disposal Well Buildings
 - Work Force Housing
 - Central Processing Plant Facilities
 - Topsoil Stockpile Areas
 - 11e-2 Staging Area
 - Header Houses
 - Diversion Ditch
 - Trunkline
 - Primary Access Roads
 - Secondary Access Roads
 - Two Track Roads
 - Plant Fence
 - Wellfield Fence
 - Section Lines
 - County Line

0 250 500 1,000 1,500 2,000 2,500 3,000 3,500 Feet



Nichols Ranch ISR Project
PERMIT TO MINE #778
FIGURE 6
SURFACE DISTURBANCE

WDEQ-LQD ANNUAL REPORT
OCTOBER 1, 2016 - SEPTEMBER 30, 2017

BY: A. EVENSON

Date: 11/29/2017

Countour Interval: 20'

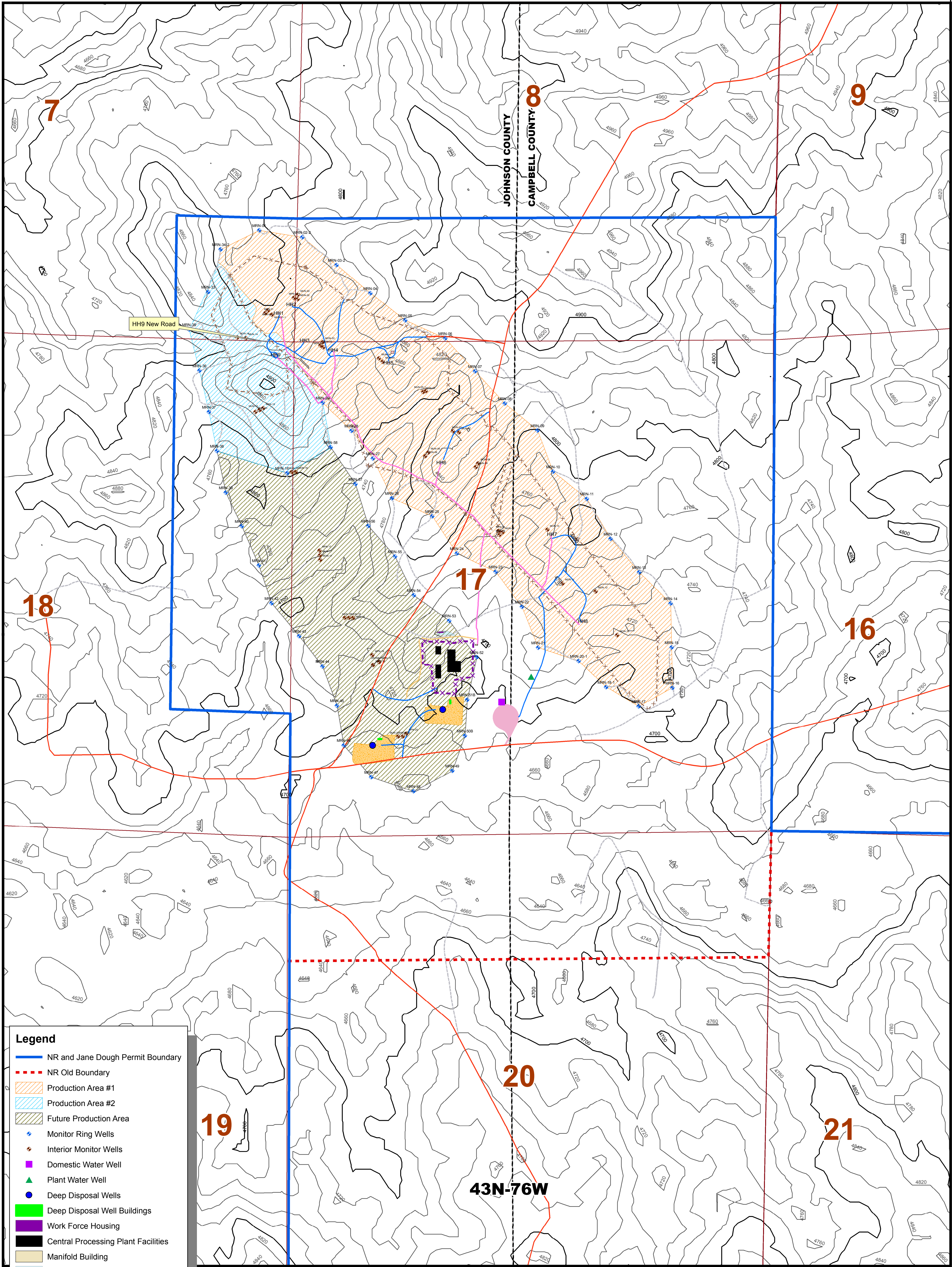
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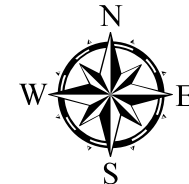
Exhibit Number: FIGURE 6



Legend

- NR and Jane Dough Permit Boundary
- NR Old Boundary
- Production Area #1
- Production Area #2
- Future Production Area
- Monitor Ring Wells
- Interior Monitor Wells
- Domestic Water Well
- Plant Water Well
- Deep Disposal Wells
- Deep Disposal Well Buildings
- Work Force Housing
- Central Processing Plant Facilities
- Manifold Building
- Workforce Housing Pad
- 11e-2 Staging Area
- Header Houses
- Silo Access Area
- Nich DW-1 & DW-4 & Staging Area
- Diversion Ditch
- Trunkline
- Primary Access Roads
- Secondary Access Roads
- Two Track Roads
- Plant Fence
- Wellfield Fence
- Section Lines
- County Line

0 250 500 1,000 1,500 2,000 2,500 3,000 3,500 Feet



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FIGURE 7
SITE LAYOUT

WDEQ-LQD ANNUAL REPORT
OCTOBER 1, 2016 - SEPTEMBER 30, 2017

BY: A. EVENSON

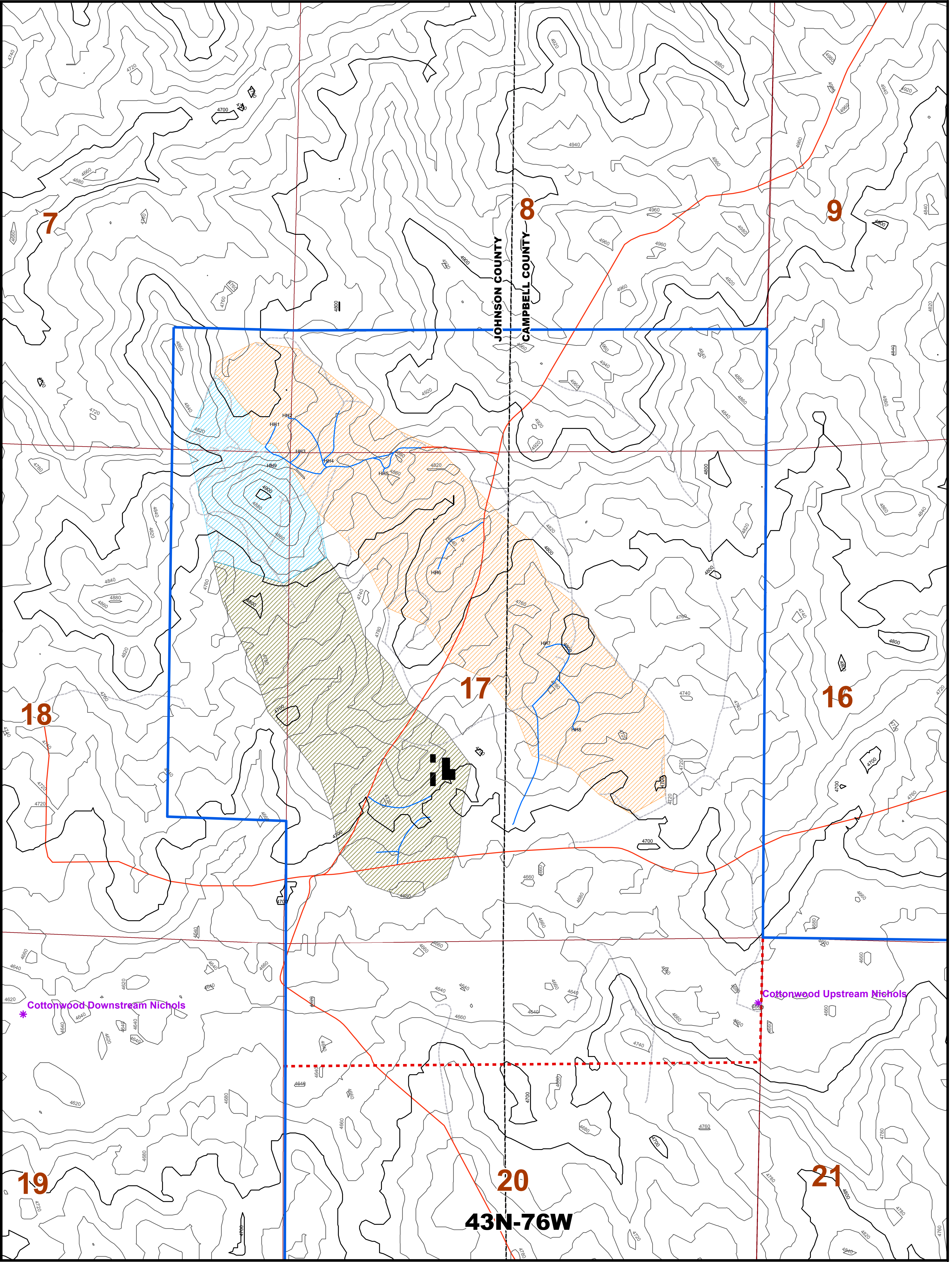
Date: 11/29/2017

Countour Interval: 20'

Revision Date: REV-6

Scale: 1 inch = 500 feet

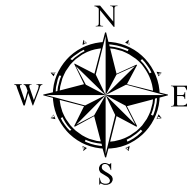
Dwg: Datum: UTM 1927 ZONE 13
Exhibit Number: FIGURE-7



Legend

- NR and Jane Dough Permit Boundary
- NR Old Boundary
- Production Area #1
- Production Area #2
- Future Production Area
- Central Processing Plant Facilities
- Header Houses
- Surface Water Sampling Locations
- Topo Minor Contour 20ft (10-27-2014)
- Topo Major Contour 100ft (10-27-2014)
- Primary Access Roads
- Secondary Access Roads
- Two Track Roads
- Section Lines
- County Line

0 500 1,000 2,000 3,000 Feet



Nichols Ranch ISR Project
PERMIT TO MINE #778
FIGURE 8
NICHOLS RANCH UNIT
MONITORING LOCATIONS
WDEQ-LQD ANNUAL REPORT
OCTOBER 1, 2016 - SEPTEMBER 30, 2017

BY: A. EVENSON

Date: 11/29/2017

Countour Interval: 20'

Revision Date: REV-5

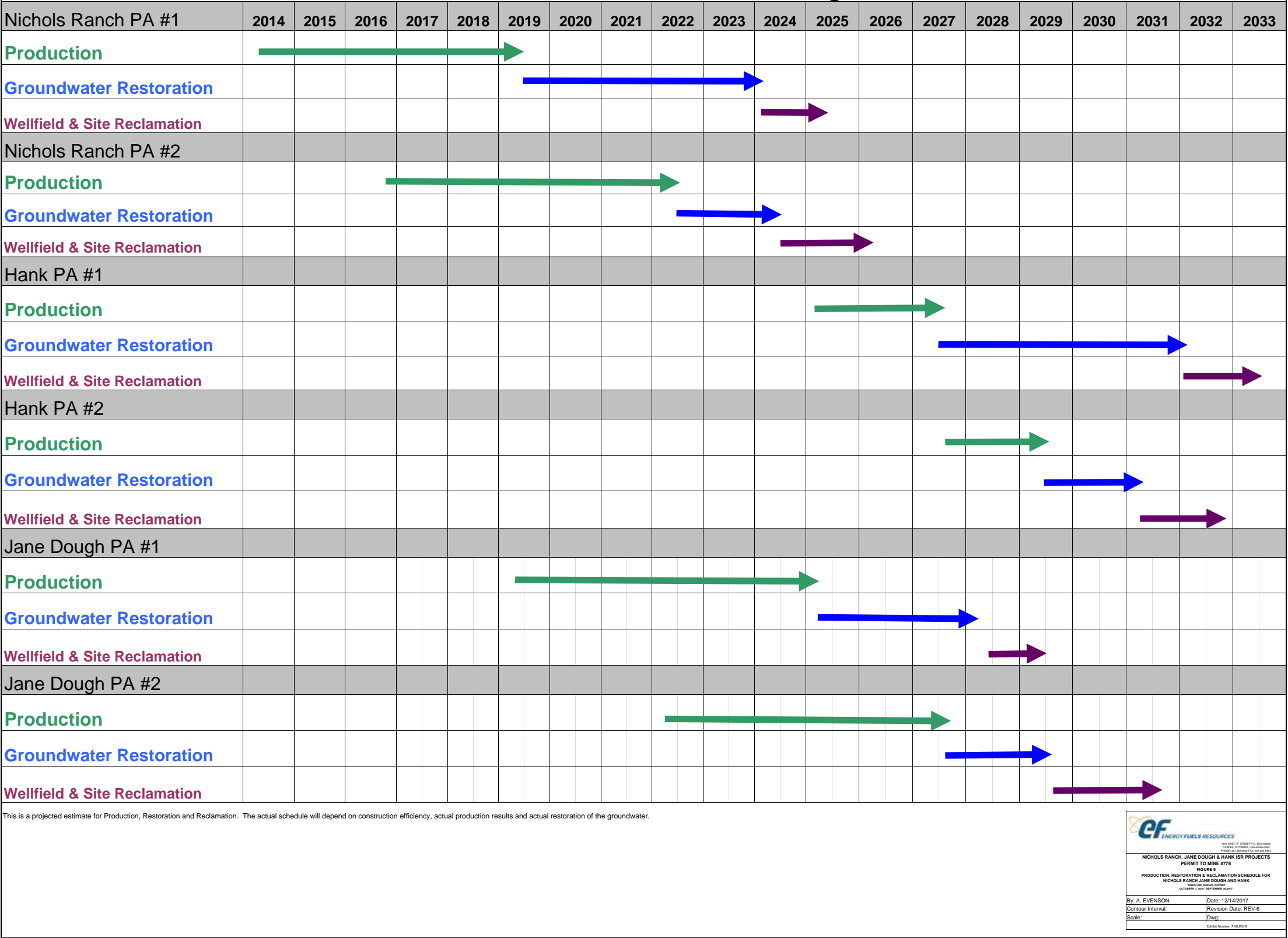
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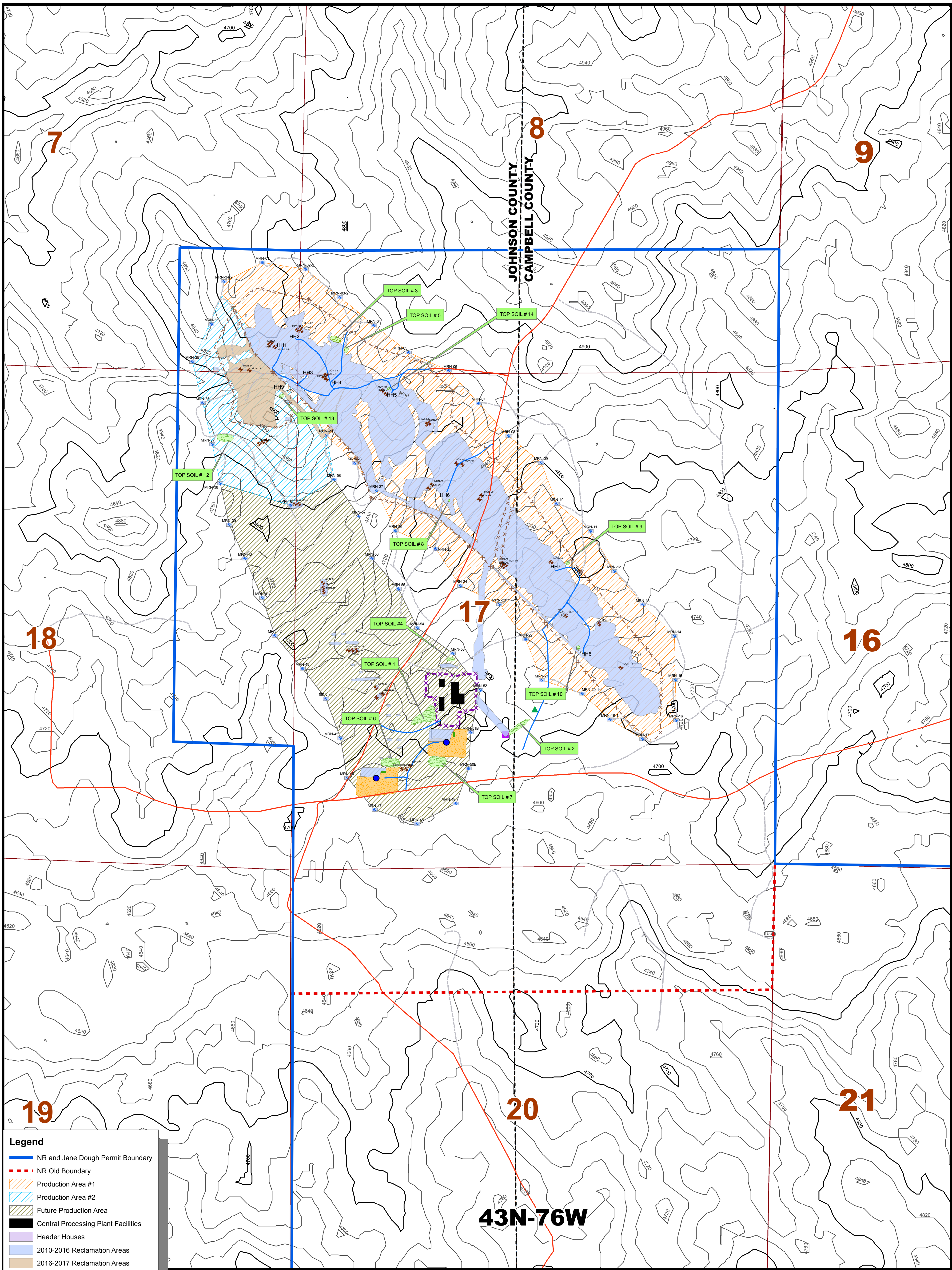
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PAPER SIZE 22"x34"

Exhibit Number: FIGURE-8

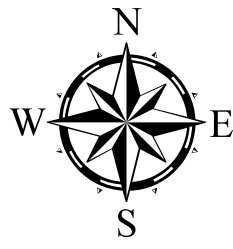
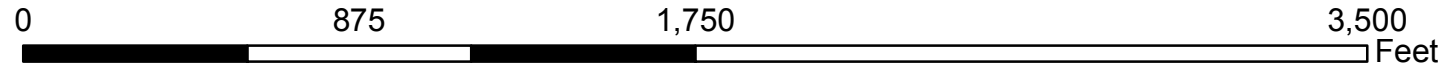
Figure 9: Projected Production, Restoration, and Reclamation Schedule
Nichols Ranch, Hank and Jane Dough





Legend

- NR and Jane Dough Permit Boundary
- NR Old Boundary
- Production Area #1
- Production Area #2
- Future Production Area
- Central Processing Plant Facilities
- Header Houses
- 2010-2016 Reclamation Areas
- 2016-2017 Reclamation Areas
- Monitor Ring Wells
- Interior Monitor Wells
- Deep Disposal Wells
- Domestic Water Well
- Plant Water Well
- Topsoil Stockpile Areas
- Deep Disposal Well Buildings
- 11e-2 Staging Area
- Nich DW-1 & DW-4 & Staging Area
- Primary Access Roads
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ENERGY FUELS RESOURCES

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Nichols Ranch ISR Project
PERMIT TO MINE #778
FIGURE 10
SURFACE RECLAMATION
WDEQ-LQD ANNUAL REPORT
OCTOBER 1, 2016 - SEPTEMBER 30, 2017

BY: A. EVENSON	Date: 11/29/2017
Countour Interval: 20'	Revision Date: REV-6
Scale: 1 inch = 500 feet	Dwg: Datum: UTM 1927 ZONE 13
PAPER SIZE 22"x34" Exhibit Number: FIGURE-10	

Appendix B

Well Completion Details

Appendix B
Well Completion Details
October 1, 2016 to September 30, 2017 Annual Report
Uranerz Permit to Mine 778

Status	Mine Name	Well Name	Well Type	Completion Date	Geologic Unit Name	NORTHING (UTM 13 Survey Ft)	EASTING (UTM 13 Survey Ft)	Top of Casing (Elevation in ft)	DATUM
ACTIVE	NICHOLS RANCH	AV032C	Production	12/12/2016	A Sand	15878091	1368084	4826	NAD 27
ACTIVE	NICHOLS RANCH	DF072	Production	11/16/2016	A Sand	15876090	1371163	4730	NAD 27
ACTIVE	NICHOLS RANCH	AX026D	Production	11/14/2016	A Sand	15878339	1368189	4828	NAD 27
ACTIVE	NICHOLS RANCH	AY029	Production	11/14/2016	A Sand	15878237	1368244	4833	NAD 27
ACTIVE	NICHOLS RANCH	AY028C	Production	11/8/2016	A Sand	15878266	1368257	4832	NAD 27
ACTIVE	NICHOLS RANCH	AW021C	Production	11/3/2016	A Sand	15878594	1368152	4811	NAD 27
ACTIVE	NICHOLS RANCH	AX035	Production	11/3/2016	A Sand	15877899	1368183	4855	NAD 27
ACTIVE	NICHOLS RANCH	AX041	Production	10/31/2016	A Sand	15877602	1368168	4863	NAD 27
ACTIVE	NICHOLS RANCH	AZ028B	Production	10/31/2016	A Sand	15878261	1368292	4830	NAD 27
ACTIVE	NICHOLS RANCH	AV041	Production	10/27/2016	A Sand	15877635	1368081	4861	NAD 27
ACTIVE	NICHOLS RANCH	AW038	Production	10/27/2016	A Sand	15877734	1368163	4892	NAD 27
ACTIVE	NICHOLS RANCH	AX040	Production	10/27/2016	A Sand	15877676	1368207	4900	NAD 27
ACTIVE	NICHOLS RANCH	AV039B	Production	10/26/2016	A Sand	15877716	1368090	4888	NAD 27
ACTIVE	NICHOLS RANCH	AY028	Production	10/26/2016	A Sand	15878266	1368258	4829	NAD 27
ACTIVE	NICHOLS RANCH	AZ037C	Production	10/26/2016	A Sand	15877812	1368311	4889	NAD 27
ACTIVE	NICHOLS RANCH	AV024	Production	10/25/2016	A Sand	15878455	1368119	4821	NAD 27
ACTIVE	NICHOLS RANCH	AV037B	Production	10/25/2016	A Sand	15877785	1368116	4875	NAD 27
ACTIVE	NICHOLS RANCH	AW022B	Production	10/25/2016	A Sand	15878558	1368130	4814	NAD 27
ACTIVE	NICHOLS RANCH	AW040	Production	10/25/2016	A Sand	15877668	1368143	4897	NAD 27
ACTIVE	NICHOLS RANCH	AZ035	Production	10/25/2016	A Sand	15877918	1368278	4875	NAD 27
ACTIVE	NICHOLS RANCH	AX025	Production	10/24/2016	A Sand	15878422	1368190	4823	NAD 27
ACTIVE	NICHOLS RANCH	AX037	Production	10/24/2016	A Sand	15877828	1368209	4876	NAD 27
ACTIVE	NICHOLS RANCH	AY035	Production	10/24/2016	A Sand	15877878	1368264	4876	NAD 27
ACTIVE	NICHOLS RANCH	AY036	Production	10/24/2016	A Sand	15877853	1368242	4876	NAD 27
ACTIVE	NICHOLS RANCH	BD028	Production	10/24/2016	A Sand	15878264	1368479	4821	NAD 27
ACTIVE	NICHOLS RANCH	AU033C	Production	10/20/2016	A Sand	15878036	1368016	4820	NAD 27
ACTIVE	NICHOLS RANCH	AV020	Production	10/20/2016	A Sand	15878665	1368111	4799	NAD 27
ACTIVE	NICHOLS RANCH	AX023	Production	10/20/2016	A Sand	15878517	1368187	4813	NAD 27

Appendix B
Well Completion Details
October 1, 2016 to September 30, 2017 Annual Report
Uranerz Permit to Mine 778

Status	Mine Name	Well Name	Well Type	Completion Date	Geologic Unit Name	NORTHING (UTM 13 Survey Ft)	EASTING (UTM 13 Survey Ft)	Top of Casing (Elevation in ft)	DATUM
ACTIVE	NICHOLS RANCH	AZ034	Production	10/20/2016	A Sand	15877961	1368316	4861	NAD 27
ACTIVE	NICHOLS RANCH	BA036	Production	10/20/2016	A Sand	15877885	1368323	4879	NAD 27
ACTIVE	NICHOLS RANCH	BB027	Production	10/20/2016	A Sand	15878303	1368404	4819	NAD 27
ACTIVE	NICHOLS RANCH	AV034B	Production	10/19/2016	A Sand	15877967	1368113	4838	NAD 27
ACTIVE	NICHOLS RANCH	AW022	Production	10/19/2016	A Sand	15878562	1368122	4813	NAD 27
ACTIVE	NICHOLS RANCH	AZ037D	Production	10/19/2016	A Sand	15877823	1368295	4889	NAD 27
ACTIVE	NICHOLS RANCH	BA028	Production	10/19/2016	A Sand	15878261	1368350	4818	NAD 27
ACTIVE	NICHOLS RANCH	BB031	Production	10/19/2016	A Sand	15878118	1368411	4833	NAD 27
ACTIVE	NICHOLS RANCH	BD031B	Production	10/19/2016	A Sand	15878105	1368464	4838	NAD 27
ACTIVE	NICHOLS RANCH	AV035	Production	10/18/2016	A Sand	15877921	1368108	4842	NAD 27
ACTIVE	NICHOLS RANCH	AX021	Production	10/18/2016	A Sand	15878582	1368212	4809	NAD 27
ACTIVE	NICHOLS RANCH	AX037C	Production	10/18/2016	A Sand	15877781	1368198	4879	NAD 27
ACTIVE	NICHOLS RANCH	AY027	Production	10/18/2016	A Sand	15878315	1368232	4828	NAD 27
ACTIVE	NICHOLS RANCH	AY036B	Production	10/18/2016	A Sand	15877856	1368249	4874	NAD 27
ACTIVE	NICHOLS RANCH	AX026B	Production	10/17/2016	A Sand	15878350	1368200	4818	NAD 27
ACTIVE	NICHOLS RANCH	AY035B	Production	10/17/2016	A Sand	15877904	1368280	4879	NAD 27
ACTIVE	NICHOLS RANCH	AZ029B	Production	10/17/2016	A Sand	15878196	1368310	4831	NAD 27
ACTIVE	NICHOLS RANCH	AW036	Production	10/12/2016	A Sand	15877854	1368137	4855	NAD 27
ACTIVE	NICHOLS RANCH	AX035B	Production	10/12/2016	A Sand	15877902	1368186	4857	NAD 27
ACTIVE	NICHOLS RANCH	AY034B	Production	10/12/2016	A Sand	15877956	1368230	4861	NAD 27
ACTIVE	NICHOLS RANCH	AV038	Production	10/11/2016	A Sand	15877764	1368085	4879	NAD 27
ACTIVE	NICHOLS RANCH	AW034B	Production	10/11/2016	A Sand	15877966	1368165	4845	NAD 27
ACTIVE	NICHOLS RANCH	AW034C	Production	10/11/2016	A Sand	15877967	1368157	4845	NAD 27
ACTIVE	NICHOLS RANCH	AW037	Production	10/11/2016	A Sand	15877797	1368144	4873	NAD 27
ACTIVE	NICHOLS RANCH	AZ033	Production	10/11/2016	A Sand	15878021	1368277	4852	NAD 27
ACTIVE	NICHOLS RANCH	BA032B	Production	10/11/2016	A Sand	15878056	1368341	4845	NAD 27
ACTIVE	NICHOLS RANCH	AP024	Production	10/10/2016	A Sand	15878443	1367819	4826	NAD 27
ACTIVE	NICHOLS RANCH	AV039	Production	10/10/2016	A Sand	15877726	1368115	4890	NAD 27

Appendix B
Well Completion Details
October 1, 2016 to September 30, 2017 Annual Report
Uranerz Permit to Mine 778

Status	Mine Name	Well Name	Well Type	Completion Date	Geologic Unit Name	NORTHING (UTM 13 Survey Ft)	EASTING (UTM 13 Survey Ft)	Top of Casing (Elevation in ft)	DATUM
ACTIVE	NICHOLS RANCH	AX026	Production	10/10/2016	A Sand	15878348	1368199	4826	NAD 27
ACTIVE	NICHOLS RANCH	AX037B	Production	10/10/2016	A Sand	15877802	1368189	4878	NAD 27
ACTIVE	NICHOLS RANCH	AX038	Production	10/10/2016	A Sand	15877776	1368211	4887	NAD 27
ACTIVE	NICHOLS RANCH	AY034	Production	10/10/2016	A Sand	15877961	1368232	4859	NAD 27
ACTIVE	NICHOLS RANCH	AR026	Production	10/6/2016	A Sand	15878339	1367883	4821	NAD 27
ACTIVE	NICHOLS RANCH	AT038	Production	10/6/2016	A Sand	15877775	1368016	4851	NAD 27
ACTIVE	NICHOLS RANCH	AU033D	Production	10/6/2016	A Sand	15878016	1368023	4822	NAD 27
ACTIVE	NICHOLS RANCH	AW035	Production	10/6/2016	A Sand	15877885	1368164	4855	NAD 27
ACTIVE	NICHOLS RANCH	AX030B	Production	10/6/2016	A Sand	15878143	1368179	4839	NAD 27
ACTIVE	NICHOLS RANCH	AX033B	Production	10/6/2016	A Sand	15878030	1368211	4843	NAD 27
ACTIVE	NICHOLS RANCH	AY030C	Production	10/6/2016	A Sand	15878155	1368250	4840	NAD 27
ACTIVE	NICHOLS RANCH	AS025	Production	10/5/2016	A Sand	15878394	1367936	4822	NAD 27
ACTIVE	NICHOLS RANCH	AW032	Production	10/5/2016	A Sand	15878070	1368155	4836	NAD 27
ACTIVE	NICHOLS RANCH	AW033	Production	10/5/2016	A Sand	15878018	1368131	4833	NAD 27
ACTIVE	NICHOLS RANCH	AX033	Production	10/5/2016	A Sand	15878014	1368184	4846	NAD 27
ACTIVE	NICHOLS RANCH	AX033C	Production	10/5/2016	A Sand	15878018	1368186	4845	NAD 27
ACTIVE	NICHOLS RANCH	AY031B	Production	10/5/2016	A Sand	15878086	1368227	4844	NAD 27
ACTIVE	NICHOLS RANCH	AO024	Production	10/4/2016	A Sand	15878480	1367758	4824	NAD 27
ACTIVE	NICHOLS RANCH	AQ025	Production	10/4/2016	A Sand	15878392	1367868	4825	NAD 27
ACTIVE	NICHOLS RANCH	AT025	Production	10/4/2016	A Sand	15878432	1367979	4815	NAD 27
ACTIVE	NICHOLS RANCH	AV030B	Production	10/4/2016	A Sand	15878148	1368106	4838	NAD 27
ACTIVE	NICHOLS RANCH	AW026B	Production	10/4/2016	A Sand	15878381	1368143	4824	NAD 27
ACTIVE	NICHOLS RANCH	AW032C	Production	10/4/2016	A Sand	15878068	1368144	4838	NAD 27
ACTIVE	NICHOLS RANCH	AP025	Production	10/3/2016	A Sand	15878401	1367785	4835	NAD 27
ACTIVE	NICHOLS RANCH	AV032B	Production	10/3/2016	A Sand	15878088	1368076	4831	NAD 27
ACTIVE	NICHOLS RANCH	AV033B	Production	10/3/2016	A Sand	15878012	1368100	4832	NAD 27
ACTIVE	NICHOLS RANCH	AZ032	Production	10/3/2016	A Sand	15878069	1368294	4844	NAD 27
ACTIVE	NICHOLS RANCH	AR024	Production	9/29/2016	A Sand	15878461	1367903	4815	NAD 27

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ACTIVE	NICHOLS RANCH	AQ024	Production	9/26/2016	A Sand	15878484	1367841	4824	NAD 27
ACTIVE	NICHOLS RANCH	AV034	Production	9/26/2016	A Sand	15877953	1368087	4841	NAD 27
ACTIVE	NICHOLS RANCH	AT027	Production	9/22/2016	A Sand	15878317	1367980	4818	NAD 27
ACTIVE	NICHOLS RANCH	AV028	Production	9/22/2016	A Sand	15878268	1368108	4831	NAD 27
ACTIVE	NICHOLS RANCH	AU030B	Production	9/21/2016	A Sand	15878144	1368032	4832	NAD 27
ACTIVE	NICHOLS RANCH	AV027	Production	9/20/2016	A Sand	15878296	1368096	4827	NAD 27
ACTIVE	NICHOLS RANCH	AX029	Production	9/20/2016	A Sand	15878211	1368208	4837	NAD 27
ACTIVE	NICHOLS RANCH	AY030B	Production	9/20/2016	A Sand	15878164	1368267	4838	NAD 27
ACTIVE	NICHOLS RANCH	AZ029	Production	9/20/2016	A Sand	15878220	1368315	4829	NAD 27
ACTIVE	NICHOLS RANCH	BA028B	Production	9/20/2016	A Sand	15878241	1368338	4826	NAD 27
ACTIVE	NICHOLS RANCH	BA030	Production	9/20/2016	A Sand	15878144	1368366	4832	NAD 27
ACTIVE	NICHOLS RANCH	AU029	Production	9/19/2016	A Sand	15878212	1368062	4832	NAD 27
ACTIVE	NICHOLS RANCH	AV030	Production	9/19/2016	A Sand	15878143	1368112	4836	NAD 27
ACTIVE	NICHOLS RANCH	BB030	Production	9/19/2016	A Sand	15878178	1368374	4831	NAD 27
ACTIVE	NICHOLS RANCH	AW034	Production	9/15/2016	A Sand	15877954	1368146	4844	NAD 27
ACTIVE	NICHOLS RANCH	AX030	Production	9/12/2016	A Sand	15878140	1368175	4839	NAD 27
ACTIVE	NICHOLS RANCH	AW026	Production	9/8/2016	A Sand	15878340	1368121	4828	NAD 27
ACTIVE	NICHOLS RANCH	AX028	Production	9/8/2016	A Sand	15878280	1368179	4831	NAD 27
ACTIVE	NICHOLS RANCH	AX028B	Production	9/8/2016	A Sand	15878276	1368175	4830	NAD 27
ACTIVE	NICHOLS RANCH	AU026	Production	9/7/2016	A Sand	15878353	1368052	4823	NAD 27
ACTIVE	NICHOLS RANCH	AU027	Production	9/7/2016	A Sand	15878286	1368036	4823	NAD 27
ACTIVE	NICHOLS RANCH	AW029	Production	9/6/2016	A Sand	15878216	1368136	4835	NAD 27
ACTIVE	NICHOLS RANCH	AW029B	Production	9/6/2016	A Sand	15878217	1368132	4835	NAD 27
ACTIVE	NICHOLS RANCH	AT029	Production	9/1/2016	A Sand	15878226	1367988	4825	NAD 27
ACTIVE	NICHOLS RANCH	AV035B	Production	9/1/2016	A Sand	15877902	1368089	4842	NAD 27
ACTIVE	NICHOLS RANCH	AW036B	Production	8/31/2016	A Sand	15877862	1368146	4853	NAD 27
ACTIVE	NICHOLS RANCH	AV037	Production	8/30/2016	A Sand	15877830	1368078	4850	NAD 27
ACTIVE	NICHOLS RANCH	AY031	Production	8/30/2016	A Sand	15878083	1368224	4844	NAD 27

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ACTIVE	NICHOLS RANCH	AT036	Production	8/29/2016	A Sand	15877863	1367999	4836	NAD 27
ACTIVE	NICHOLS RANCH	AU035	Production	8/29/2016	A Sand	15877889	1368070	4841	NAD 27
ACTIVE	NICHOLS RANCH	AU031	Production	8/17/2016	A Sand	15878094	1368070	4829	NAD 27
ACTIVE	NICHOLS RANCH	AV033	Production	8/17/2016	A Sand	15878017	1368099	4832	NAD 27
ACTIVE	NICHOLS RANCH	AW032B	Production	8/17/2016	A Sand	15878070	1368139	4837	NAD 27
ACTIVE	NICHOLS RANCH	AU034	Production	8/16/2016	A Sand	15877966	1368044	4828	NAD 27
ACTIVE	NICHOLS RANCH	AT031	Production	8/15/2016	A Sand	15878105	1367996	4822	NAD 27
ACTIVE	NICHOLS RANCH	AU030	Production	8/15/2016	A Sand	15878164	1368056	4832	NAD 27
ACTIVE	NICHOLS RANCH	AY030	Production	8/15/2016	A Sand	15878158	1368244	4837	NAD 27
ACTIVE	NICHOLS RANCH	AZ031	Production	8/15/2016	A Sand	15878113	1368298	4841	NAD 27
ACTIVE	NICHOLS RANCH	AU037	Production	8/2/2016	A Sand	15877820	1368049	4858	NAD 27
ACTIVE	NICHOLS RANCH	DJ071	Production	6/29/2016	A Sand	15876083	1371393	4751	NAD 27
ACTIVE	NICHOLS RANCH	DJ073	Production	6/29/2016	A Sand	15876021	1371391	4766	NAD 27
ACTIVE	NICHOLS RANCH	DI071	Production	6/28/2016	A Sand	15876102	1371329	4750	NAD 27
ACTIVE	NICHOLS RANCH	DE064B	Production	6/27/2016	A Sand	15876483	1371127	4763	NAD 27
ACTIVE	NICHOLS RANCH	DR087	Production	4/14/2016	A Sand	15875295	1371810	4735	NAD 27
ACTIVE	NICHOLS RANCH	EE097	Production	4/4/2016	A Sand	15874796	1372462	4696	NAD 27
ACTIVE	NICHOLS RANCH	EE099	Production	4/4/2016	A Sand	15874720	1372467	4702	NAD 27
ACTIVE	NICHOLS RANCH	EF099	Production	4/4/2016	A Sand	15874682	1372503	4703	NAD 27
ACTIVE	NICHOLS RANCH	EF101	Production	3/28/2016	A Sand	15874593	1372484	4698	NAD 27
ACTIVE	NICHOLS RANCH	EG102	Production	3/28/2016	A Sand	15874538	1372519	4701	NAD 27
ACTIVE	NICHOLS RANCH	EH102	Production	3/28/2016	A Sand	15874583	1372586	4701	NAD 27
ACTIVE	NICHOLS RANCH	EH103	Production	3/28/2016	A Sand	15874500	1372587	4704	NAD 27
ACTIVE	NICHOLS RANCH	EF100	Production	3/22/2016	A Sand	15874671	1372479	4707	NAD 27
ACTIVE	NICHOLS RANCH	EG099	Production	3/22/2016	A Sand	15874702	1372528	4707	NAD 27
ACTIVE	NICHOLS RANCH	EG100	Production	3/22/2016	A Sand	15874644	1372538	4708	NAD 27
ACTIVE	NICHOLS RANCH	N1G-011	Production	3/22/2016	A Sand	15875072	1372322	4722	NAD 27
ACTIVE	NICHOLS RANCH	ED097	Production	3/21/2016	A Sand	15874825	1372388	4697	NAD 27

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ACTIVE	NICHOLS RANCH	ED098	Production	3/21/2016	A Sand	15874742	1372395	4693	NAD 27
ACTIVE	NICHOLS RANCH	EE103	Production	3/21/2016	A Sand	15874533	1372450	4703	NAD 27
ACTIVE	NICHOLS RANCH	N1G-002	Production	3/21/2016	A Sand	15875050	1372367	4721	NAD 27
ACTIVE	NICHOLS RANCH	EC102	Production	3/16/2016	A Sand	15874536	1372368	4704	NAD 27
ACTIVE	NICHOLS RANCH	ED103	Production	3/16/2016	A Sand	15874484	1372412	4702	NAD 27
ACTIVE	NICHOLS RANCH	EF104	Production	3/16/2016	A Sand	15874480	1372492	4703	NAD 27
ACTIVE	NICHOLS RANCH	N1G-010	Production	3/16/2016	A Sand	15874976	1372066	4715	NAD 27
ACTIVE	NICHOLS RANCH	EA096	Production	3/15/2016	A Sand	15874871	1372258	4706	NAD 27
ACTIVE	NICHOLS RANCH	EC098	Production	3/15/2016	A Sand	15874775	1372325	4703	NAD 27
ACTIVE	NICHOLS RANCH	ED095B	Production	3/15/2016	A Sand	15874893	1372382	4709	NAD 27
ACTIVE	NICHOLS RANCH	MUN-13	Production	3/15/2016	A Sand	15874926	1372185	4714	NAD 27
ACTIVE	NICHOLS RANCH	DX093	Production	3/14/2016	A Sand	15875029	1372072	4716	NAD 27
ACTIVE	NICHOLS RANCH	DY092B	Production	3/14/2016	A Sand	15875061	1372150	4717	NAD 27
ACTIVE	NICHOLS RANCH	EA095	Production	3/14/2016	A Sand	15874928	1372225	4717	NAD 27
ACTIVE	NICHOLS RANCH	EB096	Production	3/14/2016	A Sand	15874851	1372322	4711	NAD 27
ACTIVE	NICHOLS RANCH	DV089	Production	3/9/2016	A Sand	15875226	1372003	4726	NAD 27
ACTIVE	NICHOLS RANCH	DW092	Production	3/9/2016	A Sand	15875072	1372058	4717	NAD 27
ACTIVE	NICHOLS RANCH	DY092	Production	3/9/2016	A Sand	15875053	1372122	4715	NAD 27
ACTIVE	NICHOLS RANCH	DW090B	Production	3/8/2016	A Sand	15875178	1372056	4720	NAD 27
ACTIVE	NICHOLS RANCH	DX087	Production	3/8/2016	A Sand	15875322	1372109	4733	NAD 27
ACTIVE	NICHOLS RANCH	DX091	Production	3/8/2016	A Sand	15875131	1372111	4720	NAD 27
ACTIVE	NICHOLS RANCH	DQ087	Production	3/7/2016	A Sand	15875296	1371742	4747	NAD 27
ACTIVE	NICHOLS RANCH	DW087	Production	3/7/2016	A Sand	15875306	1372025	4730	NAD 27
ACTIVE	NICHOLS RANCH	DX088	Production	3/7/2016	A Sand	15875244	1372081	4726	NAD 27
ACTIVE	NICHOLS RANCH	N1G-007	Production	3/7/2016	A Sand	15875238	1371779	4737	NAD 27
ACTIVE	NICHOLS RANCH	DU090	Production	3/2/2016	A Sand	15875148	1371969	4730	NAD 27
ACTIVE	NICHOLS RANCH	DU090B	Production	3/2/2016	A Sand	15875164	1371950	4724	NAD 27
ACTIVE	NICHOLS RANCH	DV092	Production	3/2/2016	A Sand	15875074	1371976	4719	NAD 27

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ACTIVE	NICHOLS RANCH	DW090	Production	3/2/2016	A Sand	15875149	1372042	4720	NAD 27
ACTIVE	NICHOLS RANCH	DS092	Production	3/1/2016	A Sand	15875051	1371862	4719	NAD 27
ACTIVE	NICHOLS RANCH	DT089	Production	3/1/2016	A Sand	15875192	1371919	4727	NAD 27
ACTIVE	NICHOLS RANCH	DU088	Production	3/1/2016	A Sand	15875232	1371957	4732	NAD 27
ACTIVE	NICHOLS RANCH	DU088B	Production	3/1/2016	A Sand	15875237	1371926	4729	NAD 27
ACTIVE	NICHOLS RANCH	DU092	Production	3/1/2016	A Sand	15875075	1371951	4721	NAD 27
ACTIVE	NICHOLS RANCH	DS090	Production	2/29/2016	A Sand	15875176	1371836	4729	NAD 27
ACTIVE	NICHOLS RANCH	DT088	Production	2/29/2016	A Sand	15875228	1371885	4733	NAD 27
ACTIVE	NICHOLS RANCH	DT091	Production	2/29/2016	A Sand	15875122	1371888	4722	NAD 27
ACTIVE	NICHOLS RANCH	DS088	Production	2/24/2016	A Sand	15875247	1371867	4737	NAD 27
ACTIVE	NICHOLS RANCH	DT087	Production	2/24/2016	A Sand	15875318	1371894	4739	NAD 27
ACTIVE	NICHOLS RANCH	DT090	Production	2/24/2016	A Sand	15875151	1371890	4728	NAD 27
ACTIVE	NICHOLS RANCH	DR088	Production	2/23/2016	A Sand	15875265	1371814	4733	NAD 27
ACTIVE	NICHOLS RANCH	DW085	Production	2/23/2016	A Sand	15875397	1372047	4736	NAD 27
ACTIVE	NICHOLS RANCH	N1G-005	Production	2/22/2016	A Sand	15875447	1372055	4739	NAD 27
ACTIVE	NICHOLS RANCH	N1H-001	Production	2/22/2016	A Sand	15875523	1371992	4744	NAD 27
ACTIVE	NICHOLS RANCH	DX085	Production	2/17/2016	A Sand	15875397	1372117	4736	NAD 27
ACTIVE	NICHOLS RANCH	MUN-12	Production	2/17/2016	A Sand	15875466	1372014	4740	NAD 27
ACTIVE	NICHOLS RANCH	MUN-10	Production	2/16/2016	A Sand	15876131	1371497	4772	NAD 27
ACTIVE	NICHOLS RANCH	N1G-006	Production	2/16/2016	A Sand	15874977	1372127	4716	NAD 27
ACTIVE	NICHOLS RANCH	EB095	Production	2/15/2016	A Sand	15874924	1372299	4710	NAD 27
ACTIVE	NICHOLS RANCH	N1G-001	Production	2/15/2016	A Sand	15874976	1372188	4717	NAD 27
ACTIVE	NICHOLS RANCH	DB071C	Production	2/11/2016	A Sand	15876096	1371007	4745	NAD 27
ACTIVE	NICHOLS RANCH	N1G-009	Production	2/10/2016	A Sand	15875323	1371775	4741	NAD 27
ACTIVE	NICHOLS RANCH	N1G-003	Production	2/9/2016	A Sand	15875342	1371822	4740	NAD 27
ACTIVE	NICHOLS RANCH	N1G-004	Production	2/4/2016	A Sand	15875232	1371717	4739	NAD 27
ACTIVE	NICHOLS RANCH	N1G-008	Production	2/3/2016	A Sand	15875274	1371671	4744	NAD 27
ACTIVE	NICHOLS RANCH	DO084	Production	2/1/2016	A Sand	15875432	1371626	4757	NAD 27

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ACTIVE	NICHOLS RANCH	DN081	Production	1/28/2016	A Sand	15875614	1371615	4767	NAD 27
ACTIVE	NICHOLS RANCH	DN082	Production	1/28/2016	A Sand	15875527	1371602	4769	NAD 27
ACTIVE	NICHOLS RANCH	DP084B	Production	1/28/2016	A Sand	15875463	1371692	4751	NAD 27
ACTIVE	NICHOLS RANCH	DP085B	Production	1/28/2016	A Sand	15875408	1371686	4749	NAD 27
ACTIVE	NICHOLS RANCH	DQ086B	Production	1/28/2016	A Sand	15875360	1371748	4751	NAD 27
ACTIVE	NICHOLS RANCH	DM084	Production	1/27/2016	A Sand	15875457	1371531	4766	NAD 27
ACTIVE	NICHOLS RANCH	DN084	Production	1/27/2016	A Sand	15875447	1371594	4760	NAD 27
ACTIVE	NICHOLS RANCH	DO083	Production	1/27/2016	A Sand	15875495	1371641	4760	NAD 27
ACTIVE	NICHOLS RANCH	DP082	Production	1/27/2016	A Sand	15875557	1371674	4760	NAD 27
ACTIVE	NICHOLS RANCH	DL074	Production	1/26/2016	A Sand	15875969	1371484	4766	NAD 27
ACTIVE	NICHOLS RANCH	DN083	Production	1/26/2016	A Sand	15875512	1371583	4768	NAD 27
ACTIVE	NICHOLS RANCH	DO084B	Production	1/26/2016	A Sand	15875458	1371664	4754	NAD 27
ACTIVE	NICHOLS RANCH	DP085	Production	1/26/2016	A Sand	15875400	1371679	4749	NAD 27
ACTIVE	NICHOLS RANCH	DR085	Production	1/26/2016	A Sand	15875402	1371774	4741	NAD 27
ACTIVE	NICHOLS RANCH	DT081	Production	1/25/2016	A Sand	15875586	1371900	4747	NAD 27
ACTIVE	NICHOLS RANCH	DU082	Production	1/25/2016	A Sand	15875560	1371950	4745	NAD 27
ACTIVE	NICHOLS RANCH	DM081	Production	1/21/2016	A Sand	15875600	1371530	4765	NAD 27
ACTIVE	NICHOLS RANCH	DN086	Production	1/21/2016	A Sand	15875371	1371610	4750	NAD 27
ACTIVE	NICHOLS RANCH	DO087	Production	1/21/2016	A Sand	15875324	1371662	4744	NAD 27
ACTIVE	NICHOLS RANCH	DQ086	Production	1/21/2016	A Sand	15875350	1371751	4740	NAD 27
ACTIVE	NICHOLS RANCH	DT080	Production	1/21/2016	A Sand	15875650	1371906	4750	NAD 27
ACTIVE	NICHOLS RANCH	DQ079	Production	1/20/2016	A Sand	15875701	1371741	4763	NAD 27
ACTIVE	NICHOLS RANCH	DR077	Production	1/20/2016	A Sand	15875828	1371793	4774	NAD 27
ACTIVE	NICHOLS RANCH	DL076	Production	1/19/2016	A Sand	15875883	1371485	4753	NAD 27
ACTIVE	NICHOLS RANCH	DM077	Production	1/19/2016	A Sand	15875823	1371547	4763	NAD 27
ACTIVE	NICHOLS RANCH	DN080	Production	1/18/2016	A Sand	15875671	1371577	4769	NAD 27
ACTIVE	NICHOLS RANCH	DQ077	Production	1/18/2016	A Sand	15875801	1371739	4779	NAD 27
ACTIVE	NICHOLS RANCH	DS079	Production	1/14/2016	A Sand	15875698	1371853	4756	NAD 27

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ACTIVE	NICHOLS RANCH	DS081	Production	1/14/2016	A Sand	15875619	1371843	4751	NAD 27
ACTIVE	NICHOLS RANCH	DC069	Production	1/13/2016	A Sand	15876200	1371057	4749	NAD 27
ACTIVE	NICHOLS RANCH	N1H-004	Production	1/13/2016	A Sand	15875513	1371931	4744	NAD 27
ACTIVE	NICHOLS RANCH	DP078	Production	1/12/2016	A Sand	15875749	1371686	4774	NAD 27
ACTIVE	NICHOLS RANCH	DR078	Production	1/12/2016	A Sand	15875746	1371784	4767	NAD 27
ACTIVE	NICHOLS RANCH	MON-16	Monitor	12/22/2015	B Sand	15876764	1368658	4789	NAD 27
ACTIVE	NICHOLS RANCH	DG074	Production	11/19/2015	A Sand	15875937	1371272	4754	NAD 27
ACTIVE	NICHOLS RANCH	MON-15	Monitor	11/19/2015	B Sand	15877429	1368210	4832	NAD 27
ACTIVE	NICHOLS RANCH	DH075	Production	11/18/2015	A Sand	15875901	1371289	4754	NAD 27
ACTIVE	NICHOLS RANCH	DH076	Production	11/18/2015	A Sand	15875866	1371294	4747	NAD 27
ACTIVE	NICHOLS RANCH	DI075	Production	11/18/2015	A Sand	15875932	1371331	4761	NAD 27
ACTIVE	NICHOLS RANCH	DJ076	Production	11/18/2015	A Sand	15875873	1371373	4747	NAD 27
ACTIVE	NICHOLS RANCH	DJ074	Production	11/17/2015	A Sand	15875940	1371406	4761	NAD 27
ACTIVE	NICHOLS RANCH	DJ075	Production	11/17/2015	A Sand	15875885	1371393	4742	NAD 27
ACTIVE	NICHOLS RANCH	DJ077	Production	11/17/2015	A Sand	15875810	1371413	4745	NAD 27
ACTIVE	NICHOLS RANCH	DC067	Production	11/16/2015	A Sand	15876326	1371060	4745	NAD 27
ACTIVE	NICHOLS RANCH	DC068	Production	11/16/2015	A Sand	15876263	1371059	4742	NAD 27
ACTIVE	NICHOLS RANCH	MPN-14	Production	11/16/2015	A Sand	15878257	1368056	4827	NAD 27
ACTIVE	NICHOLS RANCH	MUN-15	Monitor	11/16/2015	1 Sand	15877449	1368255	4842	NAD 27
ACTIVE	NICHOLS RANCH	CN044	Production	11/12/2015	A Sand	15877476	1370300	4813	NAD 27
ACTIVE	NICHOLS RANCH	DB066	Production	11/12/2015	A Sand	15876348	1370994	4755	NAD 27
ACTIVE	NICHOLS RANCH	DB068	Production	11/12/2015	A Sand	15876260	1370988	4755	NAD 27
ACTIVE	NICHOLS RANCH	DD069	Production	11/12/2015	A Sand	15876224	1371122	4742	NAD 27
ACTIVE	NICHOLS RANCH	DH072	Production	11/12/2015	A Sand	15876053	1371297	4747	NAD 27
ACTIVE	NICHOLS RANCH	MON-14	Monitor	11/12/2015	B Sand	15878255	1368010	4825	NAD 27
ACTIVE	NICHOLS RANCH	MUN-14	Monitor	11/12/2015	1 Sand	15878245	1368106	4832	NAD 27
ACTIVE	NICHOLS RANCH	MUN-17	Monitor	11/12/2015	1 Sand	15875839	1368926	4723	NAD 27
ACTIVE	NICHOLS RANCH	DH073	Production	11/11/2015	A Sand	15875999	1371276	4750	NAD 27

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ACTIVE	NICHOLS RANCH	DI073	Production	11/11/2015	A Sand	15875987	1371327	4760	NAD 27
ACTIVE	NICHOLS RANCH	DP076	Production	11/11/2015	A Sand	15875864	1371708	4778	NAD 27
ACTIVE	NICHOLS RANCH	MON-17	Monitor	11/11/2015	B Sand	15875791	1368929	4720	NAD 27
ACTIVE	NICHOLS RANCH	MUN-16	Monitor	11/11/2015	1 Sand	15876761	1368610	4788	NAD 27
ACTIVE	NICHOLS RANCH	N1H-006	Production	11/11/2015	A Sand	15875687	1371506	4761	NAD 27
ACTIVE	NICHOLS RANCH	DG072	Production	11/10/2015	A Sand	15876078	1371230	4738	NAD 27
ACTIVE	NICHOLS RANCH	DJ078	Production	11/10/2015	A Sand	15875742	1371378	4744	NAD 27
ACTIVE	NICHOLS RANCH	DK079	Production	11/10/2015	A Sand	15875710	1371442	4752	NAD 27
ACTIVE	NICHOLS RANCH	DL078	Production	11/10/2015	A Sand	15875765	1371495	4756	NAD 27
ACTIVE	NICHOLS RANCH	MPN-19	Monitor	11/10/2015	A Sand	15874732	1369505	4721	NAD 27
ACTIVE	NICHOLS RANCH	MUN-18	Monitor	11/10/2015	1 Sand	15875145	1369200	4748	NAD 27
ACTIVE	NICHOLS RANCH	DF075	Production	11/9/2015	A Sand	15875899	1371204	4743	NAD 27
ACTIVE	NICHOLS RANCH	DG077	Production	11/9/2015	A Sand	15875831	1371229	4740	NAD 27
ACTIVE	NICHOLS RANCH	DH079	Production	11/9/2015	A Sand	15875708	1371315	4740	NAD 27
ACTIVE	NICHOLS RANCH	MON-18	Monitor	11/9/2015	B Sand	15875146	1369247	4746	NAD 27
ACTIVE	NICHOLS RANCH	MPN-16	Monitor	11/9/2015	A Sand	15876751	1368564	4788	NAD 27
ACTIVE	NICHOLS RANCH	MPN-17	Monitor	11/9/2015	A Sand	15875893	1368921	4727	NAD 27
ACTIVE	NICHOLS RANCH	MUN-20B	Monitor	11/9/2015	1 Sand	15873831	1369844	4678	NAD 27
ACTIVE	NICHOLS RANCH	DE069C	Production	11/5/2015	A Sand	15876210	1371192	4742	NAD 27
ACTIVE	NICHOLS RANCH	DE070	Production	11/5/2015	A Sand	15876166	1371130	4738	NAD 27
ACTIVE	NICHOLS RANCH	DF073	Production	11/5/2015	A Sand	15876017	1371215	4739	NAD 27
ACTIVE	NICHOLS RANCH	DI077	Production	11/5/2015	A Sand	15875810	1371343	4743	NAD 27
ACTIVE	NICHOLS RANCH	MON-20	Monitor	11/5/2015	B Sand	15873830	1369792	4678	NAD 27
ACTIVE	NICHOLS RANCH	MPN-15	Monitor	11/5/2015	A Sand	15877470	1368297	4852	NAD 27
ACTIVE	NICHOLS RANCH	DG067	Production	11/4/2015	A Sand	15876293	1371265	4743	NAD 27
ACTIVE	NICHOLS RANCH	DH067	Production	11/4/2015	A Sand	15876320	1371308	4744	NAD 27
ACTIVE	NICHOLS RANCH	MPN-18	Monitor	11/4/2015	A Sand	15875148	1369293	4743	NAD 27
ACTIVE	NICHOLS RANCH	MPN-20	Monitor	11/4/2015	A Sand	15873863	1369882	4677	NAD 27

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ACTIVE	NICHOLS RANCH	DD074	Production	11/3/2015	A Sand	15875977	1371117	4731	NAD 27
ACTIVE	NICHOLS RANCH	DD075	Production	11/3/2015	A Sand	15875898	1371102	4729	NAD 27
ACTIVE	NICHOLS RANCH	DG070B	Production	11/3/2015	A Sand	15876149	1371255	4735	NAD 27
ACTIVE	NICHOLS RANCH	MRN-43	Monitor	11/3/2015	A Sand	15874944	1368696	4736	NAD 27
ACTIVE	NICHOLS RANCH	MRN-48	Monitor	11/3/2015	A Sand	15873224	1369962	4668	NAD 27
ACTIVE	NICHOLS RANCH	MRN-52	Monitor	11/3/2015	A Sand	15874708	1370662	4701	NAD 27
ACTIVE	NICHOLS RANCH	DB059	Production	11/2/2015	A Sand	15876698	1370971	4773	NAD 27
ACTIVE	NICHOLS RANCH	DD062	Production	11/2/2015	A Sand	15876594	1371087	4754	NAD 27
ACTIVE	NICHOLS RANCH	DE063	Production	11/2/2015	A Sand	15876537	1371138	4764	NAD 27
ACTIVE	NICHOLS RANCH	DB057	Production	10/28/2015	A Sand	15876831	1370965	4784	NAD 27
ACTIVE	NICHOLS RANCH	DB058	Production	10/28/2015	A Sand	15876762	1370972	4777	NAD 27
ACTIVE	NICHOLS RANCH	DC059	Production	10/28/2015	A Sand	15876712	1371034	4769	NAD 27
ACTIVE	NICHOLS RANCH	DC060	Production	10/28/2015	A Sand	15876640	1371039	4757	NAD 27
ACTIVE	NICHOLS RANCH	DC062	Production	10/28/2015	A Sand	15876570	1371027	4759	NAD 27
ACTIVE	NICHOLS RANCH	DE072B	Production	10/28/2015	A Sand	15876033	1371132	4731	NAD 27
ACTIVE	NICHOLS RANCH	DF071	Production	10/27/2015	A Sand	15876131	1371185	4735	NAD 27
ACTIVE	NICHOLS RANCH	DA069	Production	10/26/2015	A Sand	15876226	1370932	4761	NAD 27
ACTIVE	NICHOLS RANCH	DB070	Production	10/26/2015	A Sand	15876177	1370994	4755	NAD 27
ACTIVE	NICHOLS RANCH	DB072	Production	10/26/2015	A Sand	15876041	1370995	4741	NAD 27
ACTIVE	NICHOLS RANCH	DC072	Production	10/22/2015	A Sand	15876051	1371067	4736	NAD 27
ACTIVE	NICHOLS RANCH	DD067	Production	10/22/2015	A Sand	15876300	1371135	4743	NAD 27
ACTIVE	NICHOLS RANCH	DG066B	Production	10/22/2015	A Sand	15876344	1371233	4749	NAD 27
ACTIVE	NICHOLS RANCH	DF066	Production	10/21/2015	A Sand	15876404	1371200	4756	NAD 27
ACTIVE	NICHOLS RANCH	DF067B	Production	10/21/2015	A Sand	15876289	1371188	4247	NAD 27
ACTIVE	NICHOLS RANCH	DD065	Production	10/20/2015	A Sand	15876389	1371097	4755	NAD 27
ACTIVE	NICHOLS RANCH	DE066	Production	10/20/2015	A Sand	15876365	1371169	4760	NAD 27
ACTIVE	NICHOLS RANCH	DF065B	Production	10/20/2015	A Sand	15876466	1371188	4762	NAD 27
ACTIVE	NICHOLS RANCH	MRN-50B	Monitor	10/20/2015	A Sand	15873839	1370532	4686	NAD 27

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ACTIVE	NICHOLS RANCH	MRN-51B	Monitor	10/20/2015	A Sand	15874238	1370557	4689	NAD 27
ACTIVE	NICHOLS RANCH	MRN-53	Monitor	10/20/2015	A Sand	15875113	1370358	4727	NAD 27
ACTIVE	NICHOLS RANCH	BY036C	Production	10/19/2015	A Sand	15877846	1369543	4835	NAD 27
ACTIVE	NICHOLS RANCH	CD037C	Production	10/19/2015	A Sand	15877833	1369795	4822	NAD 27
ACTIVE	NICHOLS RANCH	DC074	Production	10/19/2015	A Sand	15875976	1371047	4736	NAD 27
ACTIVE	NICHOLS RANCH	MRN-47	Monitor	10/19/2015	A Sand	15873382	1369494	4674	NAD 27
ACTIVE	NICHOLS RANCH	MRN-49	Monitor	10/19/2015	A Sand	15873452	1370393	4678	NAD 27
ACTIVE	NICHOLS RANCH	MRN-54	Monitor	10/19/2015	A Sand	15875395	1369966	4767	NAD 27
ACTIVE	NICHOLS RANCH	CH044	Production	10/16/2015	A Sand	15877475	1369973	4769	NAD 27
ACTIVE	NICHOLS RANCH	CI043C	Production	10/15/2015	A Sand	15877500	1370054	4792	NAD 27
ACTIVE	NICHOLS RANCH	CK045B	Production	10/15/2015	A Sand	15877401	1370168	4798	NAD 27
ACTIVE	NICHOLS RANCH	MRN-42	Monitor	10/15/2015	A Sand	15875309	1368389	4717	NAD 27
ACTIVE	NICHOLS RANCH	MRN-55	Monitor	10/15/2015	A Sand	15875827	1369758	4789	NAD 27
ACTIVE	NICHOLS RANCH	MRN-56	Monitor	10/15/2015	A Sand	15876165	1369461	4758	NAD 27
ACTIVE	NICHOLS RANCH	CI043	Production	10/14/2015	A Sand	15877494	1370043	4790	NAD 27
ACTIVE	NICHOLS RANCH	CI043B	Production	10/14/2015	A Sand	15877495	1370050	4791	NAD 27
ACTIVE	NICHOLS RANCH	MRN-40	Monitor	10/14/2015	A Sand	15876163	1368058	4753	NAD 27
ACTIVE	NICHOLS RANCH	MRN-41	Monitor	10/14/2015	A Sand	15875728	1368249	4746	NAD 27
ACTIVE	NICHOLS RANCH	MRN-57	Monitor	10/14/2015	A Sand	15876629	1369319	4757	NAD 27
ACTIVE	NICHOLS RANCH	MRN-58	Monitor	10/14/2015	A Sand	15877037	1369044	4786	NAD 27
ACTIVE	NICHOLS RANCH	CJ042	Production	10/13/2015	A Sand	15877590	1370118	4799	NAD 27
ACTIVE	NICHOLS RANCH	CJ042D	Production	10/13/2015	A Sand	15877552	1370098	4797	NAD 27
ACTIVE	NICHOLS RANCH	MRN-36	Monitor	10/13/2015	A Sand	15877886	1367590	4817	NAD 27
ACTIVE	NICHOLS RANCH	MRN-39	Monitor	10/13/2015	A Sand	15876536	1367883	4766	NAD 27
ACTIVE	NICHOLS RANCH	CL041B	Production	10/12/2015	A Sand	15877578	1370176	4786	NAD 27
ACTIVE	NICHOLS RANCH	DD063	Production	10/12/2015	A Sand	15876536	1371075	4751	NAD 27
ACTIVE	NICHOLS RANCH	MRN-37	Monitor	10/12/2015	A Sand	15877427	1367695	4805	NAD 27
ACTIVE	NICHOLS RANCH	MRN-38	Monitor	10/12/2015	A Sand	15876996	1367783	4770	NAD 27

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ACTIVE	NICHOLS RANCH	MRN-45	Monitor	10/12/2015	A Sand	15874174	1369114	4716	NAD 27
ACTIVE	NICHOLS RANCH	MRN-46	Monitor	10/12/2015	A Sand	15873734	1369189	4683	NAD 27
ACTIVE	NICHOLS RANCH	CJ042C	Production	10/10/2015	A Sand	15877540	1370074	4798	NAD 27
ACTIVE	NICHOLS RANCH	CL041	Production	10/8/2015	A Sand	15877572	1370172	4790	NAD 27
ACTIVE	NICHOLS RANCH	CM043	Production	10/8/2015	A Sand	15877496	1370278	4804	NAD 27
ACTIVE	NICHOLS RANCH	CM043B	Production	10/8/2015	A Sand	15877495	1370275	4807	NAD 27
ACTIVE	NICHOLS RANCH	MRN-44	Monitor	10/8/2015	A Sand	15874609	1368954	4756	NAD 27
ACTIVE	NICHOLS RANCH	CL045	Production	10/7/2015	A Sand	15877405	1370191	4801	NAD 27
ACTIVE	NICHOLS RANCH	CM044C	Production	10/7/2015	A Sand	15877454	1370228	4802	NAD 27
ACTIVE	NICHOLS RANCH	CM044	Production	10/6/2015	A Sand	15877447	1370224	4803	NAD 27
ACTIVE	NICHOLS RANCH	CM044B	Production	10/6/2015	A Sand	15877466	1370243	4801	NAD 27
ACTIVE	NICHOLS RANCH	CO043	Production	10/5/2015	A Sand	15877511	1370331	4813	NAD 27
ACTIVE	NICHOLS RANCH	CO044	Production	10/5/2015	A Sand	15877477	1370328	4819	NAD 27
ACTIVE	NICHOLS RANCH	MRN-35	Monitor	10/3/2015	A Sand	15878342	1367475	4795	NAD 27
ACTIVE	NICHOLS RANCH	DK072	Production	10/1/2015	A Sand	15876054	1371456	4767	NAD 27
ACTIVE	NICHOLS RANCH	DF074	Production	9/24/2015	A Sand	15875965	1371183	4738	NAD 27
ACTIVE	NICHOLS RANCH	DN074	Production	9/24/2015	A Sand	15875949	1371600	4763	NAD 27
ACTIVE	NICHOLS RANCH	DM072	Production	9/23/2015	A Sand	15876082	1371531	4779	NAD 27
ACTIVE	NICHOLS RANCH	DM073	Production	9/23/2015	A Sand	15876023	1371521	4773	NAD 27
ACTIVE	NICHOLS RANCH	DI068	Production	9/22/2015	A Sand	15876247	1371322	4747	NAD 27
ACTIVE	NICHOLS RANCH	DJ070	Production	9/22/2015	A Sand	15876161	1371374	4757	NAD 27
ACTIVE	NICHOLS RANCH	DJ069	Production	9/21/2015	A Sand	15876219	1371374	4756	NAD 27
ACTIVE	NICHOLS RANCH	DE065	Production	9/17/2015	A Sand	15876418	1371146	4757	NAD 27
ACTIVE	NICHOLS RANCH	DI067	Production	9/17/2015	A Sand	15876291	1371367	4753	NAD 27
ACTIVE	NICHOLS RANCH	DC064	Production	9/16/2015	A Sand	15876459	1371057	4755	NAD 27
ACTIVE	NICHOLS RANCH	DK069	Production	9/16/2015	A Sand	15876202	1371444	4754	NAD 27
ACTIVE	NICHOLS RANCH	CO046B	Production	9/15/2015	A Sand	15877343	1370301	4835	NAD 27
ACTIVE	NICHOLS RANCH	DN071	Production	9/15/2015	A Sand	15876100	1371581	4777	NAD 27

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ACTIVE	NICHOLS RANCH	DN073	Production	9/15/2015	A Sand	15876025	1371580	4772	NAD 27
ACTIVE	NICHOLS RANCH	DH065	Production	9/14/2015	A Sand	15876395	1371270	4743	NAD 27
ACTIVE	NICHOSL RANCH	DM070	Production	9/14/2015	A Sand	15876156	1371523	4771	NAD 27
ACTIVE	NICHOLS RANCH	DK071	Production	9/11/2015	A Sand	15876132	1371459	4769	NAD 27
ACTIVE	NICHOLS RANCH	N1H-003	Production	9/11/2015	A Sand	15875918	1371671	4773	NAD 27
ACTIVE	NICHOLS RANCH	BV034B	Production	9/10/2015	A Sand	15877984	1369374	4827	NAD 27
ACTIVE	NICHOLS RANCH	DE064	Production	9/10/2015	A Sand	15876473	1371119	4758	NAD 27
ACTIVE	NICHOLS RANCH	DO073	Production	9/10/2015	A Sand	15875988	1371648	4771	NAD 27
ACTIVE	NICHOLS RANCH	CI042B	Production	9/9/2015	A Sand	15877573	1370062	4797	NAD 27
ACTIVE	NICHOLS RANCH	CH042	Production	9/3/2015	A Sand	15877573	1370007	4775	NAD 27
ACTIVE	NICHOLS RANCH	CI038	Production	9/3/2015	A Sand	15877751	1370025	4811	NAD 27
ACTIVE	NICHOLS RANCH	CI039	Production	9/3/2015	A Sand	15877707	1370067	4807	NAD 27
ACTIVE	NICHOLS RANCH	CJ040	Production	9/3/2015	A Sand	15877650	1370096	4807	NAD 27
ACTIVE	NICHOLS RANCH	CI042	Production	9/2/2015	A Sand	15877585	1370063	4801	NAD 27
ACTIVE	NICHOLS RANCH	CF040	Production	8/27/2015	A Sand	15877671	1369913	4803	NAD 27
ACTIVE	NICHOLS RANCH	CF042	Production	8/27/2015	A Sand	15877578	1369915	4801	NAD 27
ACTIVE	NICHOLS RANCH	CH040	Production	8/27/2015	A Sand	15877685	1370006	4789	NAD 27
ACTIVE	NICHOLS RANCH	BT035	Production	8/26/2015	A Sand	15877887	1369308	4818	NAD 27
ACTIVE	NICHOLS RANCH	BV035	Production	8/26/2015	A Sand	15877918	1369380	4826	NAD 27
ACTIVE	NICHOLS RANCH	BX037	Production	8/26/2015	A Sand	15877817	1369472	4827	NAD 27
ACTIVE	NICHOLS RANCH	CD034	Production	8/26/2015	A Sand	15877957	1369778	4841	NAD 27
ACTIVE	NICHOLS RANCH	CG036	Production	8/26/2015	A Sand	15877838	1369957	4817	NAD 27
ACTIVE	NICHOLS RANCH	CE033	Production	8/25/2015	A Sand	15878006	1369842	4836	NAD 27
ACTIVE	NICHOLS RANCH	CE034	Production	8/25/2015	A Sand	15877938	1369825	4831	NAD 27
ACTIVE	NICHOLS RANCH	CK039	Production	8/25/2015	A Sand	15877693	1370139	4804	NAD 27
ACTIVE	NICHOLS RANCH	BX034	Production	8/18/2015	A Sand	15877956	1369507	4837	NAD 27
ACTIVE	NICHOLS RANCH	CD037B	Production	8/18/2015	A Sand	15877825	1369786	4831	NAD 27
ACTIVE	NICHOLS RANCH	CG038	Production	8/18/2015	A Sand	15877740	1369883	4812	NAD 27

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ACTIVE	NICHOLS RANCH	CC035	Production	8/17/2015	A Sand	15877893	1369759	4835	NAD 27
ACTIVE	NICHOLS RANCH	CC035B	Production	8/17/2015	A Sand	15877888	1369758	4835	NAD 27
ACTIVE	NICHOLS RANCH	CE035	Production	8/17/2015	A Sand	15877888	1369868	4822	NAD 27
ACTIVE	NICHOLS RANCH	CE036	Production	8/17/2015	A Sand	15877841	1369837	4823	NAD 27
ACTIVE	NICHOLS RANCH	CE037	Production	8/17/2015	A Sand	15877789	1369842	4819	NAD 27
ACTIVE	NICHOLS RANCH	CB036	Production	8/13/2015	A Sand	15877875	1369686	4850	NAD 27
ACTIVE	NICHOLS RANCH	CB036B	Production	8/13/2015	A Sand	15877878	1369690	4851	NAD 27
ACTIVE	NICHOLS RANCH	BY035	Production	8/12/2015	A Sand	15877902	1369559	4841	NAD 27
ACTIVE	NICHOLS RANCH	N1C-038	Production	8/12/2015	A Sand	15877950	1369667	4870	NAD 27
ACTIVE	NICHOLS RANCH	N1C-042	Production	8/12/2015	A Sand	15877884	1369632	4846	NAD 27
ACTIVE	NICHOLS RANCH	CD038	Production	8/11/2015	A Sand	15877740	1369795	4833	NAD 27
ACTIVE	NICHOLS RANCH	CH037	Production	8/11/2015	A Sand	15877800	1369984	4807	NAD 27
ACTIVE	NICHOLS RANCH	N1C-037	Production	8/11/2015	A Sand	15878004	1369624	4866	NAD 27
ACTIVE	NICHOLS RANCH	N1C-039	Production	8/11/2015	A Sand	15877942	1369605	4863	NAD 27
ACTIVE	NICHOLS RANCH	N1C-041	Production	8/11/2015	A Sand	15877953	1369732	4865	NAD 27
ACTIVE	NICHOLS RANCH	BW035	Production	8/10/2015	A Sand	15877911	1369438	4830	NAD 27
ACTIVE	NICHOLS RANCH	BX036	Production	8/10/2015	A Sand	15877880	1369489	4822	NAD 27
ACTIVE	NICHOLS RANCH	CE039	Production	8/10/2015	A Sand	15877704	1369836	4818	NAD 27
ACTIVE	NICHOLS RANCH	N1C-040	Production	8/10/2015	A Sand	15878012	1369694	4871	NAD 27
ACTIVE	NICHOLS RANCH	BX031	Production	8/5/2015	A Sand	15878096	1369508	4847	NAD 27
ACTIVE	NICHOLS RANCH	CA032	Production	8/5/2015	A Sand	15878078	1369633	4845	NAD 27
ACTIVE	NICHOLS RANCH	N1C-022	Production	8/5/2015	A Sand	15878056	1369555	4840	NAD 27
ACTIVE	NICHOLS RANCH	N1C-024	Production	8/5/2015	A Sand	15878030	1369495	4845	NAD 27
ACTIVE	NICHOLS RANCH	N1C-036	Production	8/5/2015	A Sand	15877981	1369553	4847	NAD 27
ACTIVE	NICHOLS RANCH	N1C-043	Production	8/5/2015	A Sand	15877901	1369958	4821	NAD 27
ACTIVE	NICHOLS RANCH	N1C-044	Production	7/16/2015	A Sand	15877944	1369873	4845	NAD 27
ACTIVE	NICHOLS RANCH	DA060	Production	5/13/2015	A Sand	15876670	1370944	4773	NAD 27
ACTIVE	NICHOLS RANCH	CI053	Production	5/12/2015	A Sand	15877003	1370057	4809	NAD 27

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ACTIVE	NICHOLS RANCH	CL053B	Production	5/12/2015	A Sand	15877001	1370208	4827	NAD 27
ACTIVE	NICHOLS RANCH	DA062	Production	5/12/2015	A Sand	15876535	1370973	4762	NAD 27
ACTIVE	NICHOLS RANCH	DB065	Production	5/12/2015	A Sand	15876403	1371021	4754	NAD 27
ACTIVE	NICHOLS RANCH	CQ047	Production	5/7/2015	A Sand	15877299	1370441	4852	NAD 27
ACTIVE	NICHOLS RANCH	CZ053	Production	5/7/2015	A Sand	15876993	1370873	4801	NAD 27
ACTIVE	NICHOLS RANCH	CZ056C	Production	5/7/2015	A Sand	15876850	1370872	4797	NAD 27
ACTIVE	NICHOLS RANCH	CZ063	Production	5/7/2015	A Sand	15876510	1370919	4771	NAD 27
ACTIVE	NICHOLS RANCH	DA061B	Production	5/7/2015	A Sand	15876588	1370929	4771	NAD 27
ACTIVE	NICHOLS RANCH	DA065	Production	5/7/2015	A Sand	15876404	1370953	4763	NAD 27
ACTIVE	NICHOLS RANCH	DB064	Production	5/7/2015	A Sand	15876466	1370982	4759	NAD 27
ACTIVE	NICHOLS RANCH	CT054B	Production	5/4/2015	A Sand	15876937	1370590	4805	NAD 27
ACTIVE	NICHOLS RANCH	CY058B	Production	5/4/2015	A Sand	15876762	1370857	4790	NAD 27
ACTIVE	NICHOLS RANCH	CU051	Production	4/29/2015	A Sand	15877119	1370637	4849	NAD 27
ACTIVE	NICHOLS RANCH	CM052	Production	4/28/2015	A Sand	15877060	1370255	4832	NAD 27
ACTIVE	NICHOLS RANCH	CT049	Production	4/28/2015	A Sand	15877196	1370567	4845	NAD 27
ACTIVE	NICHOLS RANCH	CT052	Production	4/28/2015	A Sand	15877055	1370596	4833	NAD 27
ACTIVE	NICHOLS RANCH	CV066	Production	4/28/2015	A Sand	15876370	1370701	4768	NAD 27
ACTIVE	NICHOLS RANCH	CZ058	Production	4/28/2015	A Sand	15876743	1370908	4779	NAD 27
ACTIVE	NICHOLS RANCH	CZ060	Production	4/28/2015	A Sand	15876648	1370890	4769	NAD 27
ACTIVE	NICHOLS RANCH	DA057B	Production	4/28/2015	A Sand	15876814	1370921	4782	NAD 27
ACTIVE	NICHOLS RANCH	CO047	Production	4/15/2015	A Sand	15877304	1370368	4849	NAD 27
ACTIVE	NICHOLS RANCH	CX058	Production	4/14/2015	A Sand	15876746	1370795	4790	NAD 27
ACTIVE	NICHOLS RANCH	CP044	Production	4/8/2015	A Sand	15877451	1370413	4842	NAD 27
ACTIVE	NICHOLS RANCH	CP046	Production	4/8/2015	A Sand	15877370	1370404	4853	NAD 27
ACTIVE	NICHOLS RANCH	CR050	Production	4/8/2015	A Sand	15877140	1370491	4831	NAD 27
ACTIVE	NICHOLS RANCH	CS059	Production	4/8/2015	A Sand	15876692	1370537	4793	NAD 27
ACTIVE	NICHOLS RANCH	CX053	Production	4/8/2015	A Sand	15877000	1370820	4807	NAD 27
ACTIVE	NICHOLS RANCH	CX061	Production	4/8/2015	A Sand	15876607	1370817	4781	NAD 27

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ACTIVE	NICHOLS RANCH	CF055	Production	4/7/2015	A Sand	15876885	1369909	4787	NAD 27
ACTIVE	NICHOLS RANCH	CH053	Production	4/7/2015	A Sand	15876985	1369974	4797	NAD 27
ACTIVE	NICHOLS RANCH	CI052	Production	4/7/2015	A Sand	15877050	1370069	4800	NAD 27
ACTIVE	NICHOLS RANCH	CJ049	Production	4/7/2015	A Sand	15877205	1370116	4806	NAD 27
ACTIVE	NICHOLS RANCH	CJ053	Production	4/7/2015	A Sand	15876994	1370109	4814	NAD 27
ACTIVE	NICHOLS RANCH	CK051	Production	4/7/2015	A Sand	15877105	1370153	4810	NAD 27
ACTIVE	NICHOLS RANCH	CK052B	Production	4/7/2015	A Sand	15877030	1370154	4814	NAD 27
ACTIVE	NICHOLS RANCH	CL051	Production	4/7/2015	A Sand	15877118	1370217	4826	NAD 27
ACTIVE	NICHOLS RANCH	CM053	Production	4/7/2015	A Sand	15876985	1370239	4832	NAD 27
ACTIVE	NICHOLS RANCH	CM054	Production	4/7/2015	A Sand	15876940	1370237	4842	NAD 27
ACTIVE	NICHOLS RANCH	CU049	Production	4/6/2015	A Sand	15877190	1370644	4850	NAD 27
ACTIVE	NICHOLS RANCH	CU049B	Production	4/6/2015	A Sand	15877174	1370631	4852	NAD 27
ACTIVE	NICHOLS RANCH	CU051B	Production	4/6/2015	A Sand	15877125	1370655	4848	NAD 27
ACTIVE	NICHOLS RANCH	CV051	Production	4/6/2015	A Sand	15877128	1370712	4836	NAD 27
ACTIVE	NICHOLS RANCH	CV052	Production	4/6/2015	A Sand	15877054	1370668	4832	NAD 27
ACTIVE	NICHOLS RANCH	CX063	Production	4/6/2015	A Sand	15876488	1370796	4769	NAD 27
ACTIVE	NICHOLS RANCH	CY056	Production	4/6/2015	A Sand	15876831	1370842	4794	NAD 27
ACTIVE	NICHOLS RANCH	CV051B	Production	4/2/2015	A Sand	15877120	1370712	4836	NAD 27
ACTIVE	NICHOLS RANCH	CW052B	Production	4/2/2015	A Sand	15877065	1370750	4818	NAD 27
ACTIVE	NICHOLS RANCH	CW052C	Production	4/2/2015	A Sand	15877070	1370759	4818	NAD 27
ACTIVE	NICHOLS RANCH	CW053	Production	4/2/2015	A Sand	15876982	1370748	4814	NAD 27
ACTIVE	NICHOLS RANCH	CV067	Production	4/1/2015	A Sand	15876296	1370687	4768	NAD 27
ACTIVE	NICHOLS RANCH	CX065	Production	4/1/2015	A Sand	15876407	1370773	4761	NAD 27
ACTIVE	NICHOLS RANCH	CL048	Production	3/31/2015	A Sand	15877237	1370178	4817	NAD 27
ACTIVE	NICHOLS RANCH	CX055	Production	3/31/2015	A Sand	15876889	1370824	4799	NAD 27
ACTIVE	NICHOLS RANCH	CZ055	Production	3/31/2015	A Sand	15876928	1370876	4799	NAD 27
ACTIVE	NICHOLS RANCH	CP050	Production	3/25/2015	A Sand	15877150	1370409	4849	NAD 27
ACTIVE	NICHOLS RANCH	CW056	Production	3/25/2015	A Sand	15876869	1370742	4801	NAD 27

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ACTIVE	NICHOLS RANCH	CQ051	Production	3/20/2015	A Sand	15877104	1370448	4830	NAD 27
ACTIVE	NICHOLS RANCH	CR051	Production	3/20/2015	A Sand	15877130	1370478	4835	NAD 27
ACTIVE	NICHOLS RANCH	CS052	Production	3/19/2015	A Sand	15877073	1370520	4826	NAD 27
ACTIVE	NICHOLS RANCH	CT053	Production	3/19/2015	A Sand	15877031	1370578	4820	NAD 27
ACTIVE	NICHOLS RANCH	CS051	Production	3/18/2015	A Sand	15877121	1370565	4840	NAD 27
ACTIVE	NICHOLS RANCH	CY052	Production	3/18/2015	A Sand	15877052	1370828	4810	NAD 27
ACTIVE	NICHOLS RANCH	CY054	Production	3/18/2015	A Sand	15876971	1370829	4798	NAD 27
ACTIVE	NICHOLS RANCH	CY058	Production	3/18/2015	A Sand	15876769	1370851	4794	NAD 27
ACTIVE	NICHOLS RANCH	CZ056B	Production	3/18/2015	A Sand	15876878	1370904	4794	NAD 27
ACTIVE	NICHOLS RANCH	CV057	Production	3/16/2015	A Sand	15876821	1370698	4804	NAD 27
ACTIVE	NICHOLS RANCH	CW058	Production	3/16/2015	A Sand	15876743	1370712	4787	NAD 27
ACTIVE	NICHOLS RANCH	CX057	Production	3/16/2015	A Sand	15876799	1370790	4795	NAD 27
ACTIVE	NICHOLS RANCH	CY059	Production	3/12/2015	A Sand	15876682	1370824	4781	NAD 27
ACTIVE	NICHOLS RANCH	CZ059	Production	3/12/2015	A Sand	15876696	1370877	4782	NAD 27
ACTIVE	NICHOLS RANCH	CH054	Production	3/11/2015	A Sand	15876936	1369974	4797	NAD 27
ACTIVE	NICHOLS RANCH	CR049	Production	3/11/2015	A Sand	15877228	1370494	4850	NAD 27
ACTIVE	NICHOLS RANCH	CW060	Production	3/11/2015	A Sand	15876658	1370758	4785	NAD 27
ACTIVE	NICHOLS RANCH	CT060	Production	3/10/2015	A Sand	15876642	1370592	4787	NAD 27
ACTIVE	NICHOLS RANCH	CU056	Production	3/10/2015	A Sand	15876867	1370635	4800	NAD 27
ACTIVE	NICHOLS RANCH	CU059	Production	3/10/2015	A Sand	15876701	1370640	4782	NAD 27
ACTIVE	NICHOLS RANCH	CV064	Production	3/10/2015	A Sand	15876434	1370674	4773	NAD 27
ACTIVE	NICHOLS RANCH	CW067B	Production	3/10/2015	A Sand	15876307	1370751	4764	NAD 27
ACTIVE	NICHOLS RANCH	CU061	Production	3/9/2015	A Sand	15876594	1370651	4775	NAD 27
ACTIVE	NICHOLS RANCH	CV063	Production	3/9/2015	A Sand	15876530	1370698	4771	NAD 27
ACTIVE	NICHOLS RANCH	CW061	Production	3/9/2015	A Sand	15876615	1370728	4776	NAD 27
ACTIVE	NICHOLS RANCH	MPN-08	Production	3/9/2015	A Sand	15876852	1370707	4805	NAD 27
ACTIVE	NICHOLS RANCH	CP048	Production	3/4/2015	A Sand	15877234	1370402	4847	NAD 27
ACTIVE	NICHOLS RANCH	CR054	Production	3/4/2015	A Sand	15876959	1370522	4808	NAD 27

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ACTIVE	NICHOLS RANCH	CU058	Production	3/4/2015	A Sand	15876768	1370648	4790	NAD 27
ACTIVE	NICHOLS RANCH	CU063	Production	3/4/2015	A Sand	15876522	1370632	4775	NAD 27
ACTIVE	NICHOLS RANCH	CW062	Production	3/4/2015	A Sand	15876544	1370764	4775	NAD 27
ACTIVE	NICHOLS RANCH	CK046	Production	2/23/2015	A Sand	15877359	1370131	4794	NAD 27
ACTIVE	NICHOLS RANCH	CK047	Production	2/23/2015	A Sand	15877295	1370155	4805	NAD 27
ACTIVE	NICHOLS RANCH	CL050	Production	2/23/2015	A Sand	15877174	1370181	4818	NAD 27
ACTIVE	NICHOLS RANCH	CO045	Production	2/23/2015	A Sand	15877419	1370349	4832	NAD 27
ACTIVE	NICHOLS RANCH	CO048	Production	2/23/2015	A Sand	15877241	1370330	4839	NAD 27
ACTIVE	NICHOLS RANCH	N1C-052-1	Production	2/23/2015	A Sand	15877980	1369003	4860	NAD 27
ACTIVE	NICHOLS RANCH	N1C-032-1	Production	1/29/2015	A Sand	15878022	1369317	4838	NAD 27
ACTIVE	NICHOLS RANCH	N1C-053	Production	1/29/2015	A Sand	15877972	1369110	4847	NAD 27
ACTIVE	NICHOLS RANCH	N1C-055	Production	1/29/2015	A Sand	15877983	1369167	4840	NAD 27
ACTIVE	NICHOLS RANCH	N1C-056	Production	1/29/2015	A Sand	15877945	1369202	4835	NAD 27
ACTIVE	NICHOLS RANCH	N1C-061	Production	1/29/2015	A Sand	15877990	1369306	4829	NAD 27
ACTIVE	NICHOLS RANCH	N1C-034-1	Production	1/20/2015	A Sand	15878020	1369127	4853	NAD 27
ACTIVE	NICHOLS RANCH	N1C-054-2	Production	1/20/2015	A Sand	15877996	1369128	4844	NAD 27
ACTIVE	NICHOLS RANCH	N1C-046-1	Production	1/19/2015	A Sand	15878028	1368974	4868	NAD 27
ACTIVE	NICHOLS RANCH	N1C-057-1	Production	1/2/2015	A Sand	15877916	1369044	4852	NAD 27
ACTIVE	NICHOLS RANCH	N1C-058	Production	1/2/2015	A Sand	15877889	1369267	4823	NAD 27
ACTIVE	NICHOLS RANCH	N1C-027	Production	12/8/2014	A Sand	15877905	1369209	4834	NAD 27
ACTIVE	NICHOLS RANCH	N1C-035	Production	12/8/2014	A Sand	15877935	1369064	4855	NAD 27
ACTIVE	NICHOLS RANCH	N1C-028	Production	12/5/2014	A Sand	15878063	1369387	4835	NAD 27
ACTIVE	NICHOLS RANCH	N1C-030	Production	12/4/2014	A Sand	15878006	1369405	4830	NAD 27
ACTIVE	NICHOLS RANCH	N1C-025	Production	12/3/2014	A Sand	15878092	1369440	4843	NAD 27
ACTIVE	NICHOLS RANCH	N1C-031	Production	12/3/2014	A Sand	15877912	1369143	4845	NAD 27
ACTIVE	NICHOLS RANCH	N1C-033	Production	12/3/2014	A Sand	15877950	1368985	4869	NAD 27
ACTIVE	NICHOLS RANCH	N1C-060-1	Production	12/3/2014	A Sand	15877890	1369133	4838	NAD 27
ACTIVE	NICHOLS RANCH	N1C-050	Production	12/2/2014	A Sand	15877946	1369283	4827	NAD 27

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ACTIVE	NICHOLS RANCH	N1C-049	Production	12/1/2014	A Sand	15878006	1369242	4833	NAD 27
ACTIVE	NICHOLS RANCH	N1C-047	Production	11/26/2014	A Sand	15878013	1369035	4855	NAD 27
ACTIVE	NICHOLS RANCH	N1C-059-1	Production	11/26/2014	A Sand	15877880	1369031	4850	NAD 27
ACTIVE	NICHOLS RANCH	N1C-045	Production	11/25/2014	A Sand	15877999	1368936	4856	NAD 27
ACTIVE	NICHOLS RANCH	N1C-048-1	Production	11/25/2014	A Sand	15878026	1369188	4839	NAD 27
ACTIVE	NICHOLS RANCH	N1A-060-1	Production	10/29/2014	A Sand	15878761	1368621	4799	NAD 27
ACTIVE	NICHOLS RANCH	N1C-051	Production	10/29/2014	A Sand	15877992	1368943	4855	NAD 27
ACTIVE	NICHOLS RANCH	N1B-010-1	Production	10/27/2014	A Sand	15878412	1368922	4835	NAD 27
ACTIVE	NICHOLS RANCH	N1B-089-1	Production	10/21/2014	A Sand	15878254	1369097	4841	NAD 27
ACTIVE	NICHOLS RANCH	N1B-095-1	Production	10/21/2014	A Sand	15878213	1369163	4845	NAD 27
ACTIVE	NICHOLS RANCH	N1A-020-1	Production	10/20/2014	A Sand	15878453	1368226	4819	NAD 27
ACTIVE	NICHOLS RANCH	N1A-041-1	Production	10/20/2014	A Sand	15878658	1368540	4803	NAD 27
ACTIVE	NICHOLS RANCH	N1B-017	Production	10/8/2014	A Sand	15878723	1368668	4810	NAD 27
ACTIVE	NICHOLS RANCH	N1A-021	Production	10/7/2014	A Sand	15878409	1368465	4813	NAD 27
ACTIVE	NICHOLS RANCH	N1B-083	Production	9/30/2014	A Sand	15878394	1368775	4828	NAD 27
ACTIVE	NICHOLS RANCH	N1A-037	Production	9/25/2014	A Sand	15878795	1368280	4789	NAD 27
ACTIVE	NICHOLS RANCH	N1A-044	Production	9/25/2014	A Sand	15878559	1368361	4801	NAD 27
ACTIVE	NICHOLS RANCH	N1B-030	Production	9/24/2014	A Sand	15878520	1368725	4823	NAD 27
ACTIVE	NICHOLS RANCH	N1B-090	Production	9/24/2014	A Sand	15878301	1369227	4848	NAD 27
ACTIVE	NICHOLS RANCH	N1A-032	Production	7/25/2014	A Sand	15878635	1368249	4806	NAD 27
ACTIVE	NICHOLS RANCH	N1A-074	Production	7/25/2014	A Sand	15878406	1368580	4805	NAD 27
ACTIVE	NICHOLS RANCH	N1A-094	Production	7/25/2014	A Sand	15878354	1368559	4804	NAD 27
ACTIVE	NICHOLS RANCH	N1B-056	Production	7/25/2014	A Sand	15878467	1368770	4828	NAD 27
ACTIVE	NICHOLS RANCH	N1B-031	Production	7/24/2014	A Sand	15878536	1368648	4815	NAD 27
ACTIVE	NICHOLS RANCH	N1B-079	Production	7/24/2014	A Sand	15878231	1368850	4840	NAD 27
ACTIVE	NICHOLS RANCH	N1A-023	Production	7/22/2014	A Sand	15878363	1368356	4817	NAD 27
ACTIVE	NICHOLS RANCH	N1A-068	Production	7/22/2014	A Sand	15878703	1368319	4767	NAD 27
ACTIVE	NICHOLS RANCH	N1A-065	Production	7/21/2014	A Sand	15878718	1368366	4791	NAD 27

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ACTIVE	NICHOLS RANCH	N1A-107	Production	7/21/2014	A Sand	15878365	1368564	4804	NAD 27
ACTIVE	NICHOLS RANCH	N1C-007	Production	7/21/2014	A Sand	15878180	1369112	4847	NAD 27
ACTIVE	NICHOLS RANCH	N1B-026	Production	7/18/2014	A Sand	15878454	1368646	4814	NAD 27
ACTIVE	NICHOLS RANCH	N1B-063	Production	7/18/2014	A Sand	15878406	1368746	4825	NAD 27
ACTIVE	NICHOLS RANCH	N1B-064	Production	7/18/2014	A Sand	15878439	1368838	4834	NAD 27
ACTIVE	NICHOLS RANCH	N1C-006	Production	7/18/2014	A Sand	15878106	1368964	4857	NAD 27
ACTIVE	NICHOLS RANCH	N1C-019	Production	7/18/2014	A Sand	15878141	1369312	4852	NAD 27
ACTIVE	NICHOLS RANCH	N1A-105	Production	7/17/2014	A Sand	15878410	1368476	4809	NAD 27
ACTIVE	NICHOLS RANCH	N1B-050	Production	7/17/2014	A Sand	15878412	1368693	4819	NAD 27
ACTIVE	NICHOLS RANCH	N1A-089	Production	7/11/2014	A Sand	15878738	1368548	4802	NAD 27
ACTIVE	NICHOLS RANCH	N1B-011	Production	7/10/2014	A Sand	15878365	1368875	4837	NAD 27
ACTIVE	NICHOLS RANCH	N1B-052	Production	7/10/2014	A Sand	15878254	1368981	4845	NAD 27
ACTIVE	NICHOLS RANCH	N1C-003-1	Production	7/10/2014	A Sand	15878193	1368994	4851	NAD 27
ACTIVE	NICHOLS RANCH	N1C-008	Production	7/10/2014	A Sand	15878127	1369120	4848	NAD 27
ACTIVE	NICHOLS RANCH	N1A-004	Production	7/9/2014	A Sand	15878755	1368194	4797	NAD 27
ACTIVE	NICHOLS RANCH	N1A-083	Production	7/9/2014	A Sand	15878617	1368382	4799	NAD 27
ACTIVE	NICHOLS RANCH	N1A-102	Production	7/9/2014	A Sand	15878913	1368340	4773	NAD 27
ACTIVE	NICHOLS RANCH	N1B-053	Production	7/9/2014	A Sand	15878454	1368733	4823	NAD 27
ACTIVE	NICHOLS RANCH	N1B-060	Production	7/9/2014	A Sand	15878241	1368918	4844	NAD 27
ACTIVE	NICHOLS RANCH	N1B-061	Production	7/9/2014	A Sand	15878291	1368855	4838	NAD 27
ACTIVE	NICHOLS RANCH	N1B-068	Production	7/9/2014	A Sand	15878512	1368792	4829	NAD 27
ACTIVE	NICHOLS RANCH	N1C-018	Production	7/9/2014	A Sand	15878161	1368970	4853	NAD 27
ACTIVE	NICHOLS RANCH	N1A-071	Production	7/8/2014	A Sand	15878669	1368355	4797	NAD 27
ACTIVE	NICHOLS RANCH	N1B-036	Production	7/8/2014	A Sand	15878346	1368690	4818	NAD 27
ACTIVE	NICHOLS RANCH	N1B-059	Production	7/8/2014	A Sand	15878322	1368753	4827	NAD 27
ACTIVE	NICHOLS RANCH	N1A-038	Production	6/26/2014	A Sand	15878709	1368178	4798	NAD 27
ACTIVE	NICHOLS RANCH	N1A-080	Production	6/26/2014	A Sand	15878458	1368245	4811	NAD 27
ACTIVE	NICHOLS RANCH	N1A-091	Production	6/26/2014	A Sand	15878660	1368309	4802	NAD 27

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ACTIVE	NICHOLS RANCH	N1A-097	Production	6/26/2014	A Sand	15878479	1368337	4810	NAD 27
ACTIVE	NICHOLS RANCH	N1B-085	Production	6/25/2014	A Sand	15878511	1368971	4822	NAD 27
ACTIVE	NICHOLS RANCH	N1A-017	Production	6/24/2014	A Sand	15878714	1368231	4800	NAD 27
ACTIVE	NICHOLS RANCH	N1A-063	Production	6/24/2014	A Sand	15878699	1368585	4808	NAD 27
ACTIVE	NICHOLS RANCH	N1A-075	Production	6/24/2014	A Sand	15878339	1368597	4808	NAD 27
ACTIVE	NICHOLS RANCH	N1A-033	Production	6/19/2014	A Sand	15878805	1368501	4794	NAD 27
ACTIVE	NICHOLS RANCH	N1A-066	Production	6/19/2014	A Sand	15878420	1368272	4820	NAD 27
ACTIVE	NICHOLS RANCH	N1A-056	Production	6/18/2014	A Sand	15878399	1368472	4809	NAD 27
ACTIVE	NICHOLS RANCH	N1A-085	Production	6/17/2014	A Sand	15878520	1368259	4814	NAD 27
ACTIVE	NICHOLS RANCH	N1B-078	Production	6/17/2014	A Sand	15878433	1369091	4830	NAD 27
ACTIVE	NICHOLS RANCH	N1A-028	Production	6/16/2014	A Sand	15878928	1368240	4785	NAD 27
ACTIVE	NICHOLS RANCH	N1A-042	Production	6/16/2014	A Sand	15878611	1368316	4804	NAD 27
ACTIVE	NICHOLS RANCH	N1A-095	Production	6/16/2014	A Sand	15878351	1368279	4824	NAD 27
ACTIVE	NICHOLS RANCH	N1A-007	Production	6/12/2014	A Sand	15878835	1368257	4790	NAD 27
ACTIVE	NICHOLS RANCH	N1C-015	Production	6/12/2014	A Sand	15878109	1368905	4853	NAD 27
ACTIVE	NICHOLS RANCH	N1A-039	Production	6/11/2014	A Sand	15878617	1368216	4807	NAD 27
ACTIVE	NICHOLS RANCH	N1B-042	Production	6/11/2014	A Sand	15878681	1368703	4811	NAD 27
ACTIVE	NICHOLS RANCH	N1A-003	Production	6/10/2014	A Sand	15878755	1368255	4797	NAD 27
ACTIVE	NICHOLS RANCH	N1B-081	Production	6/10/2014	A Sand	15878232	1368910	4845	NAD 27
ACTIVE	NICHOLS RANCH	N1B-097	Production	6/10/2014	A Sand	15878334	1369165	4852	NAD 27
ACTIVE	NICHOLS RANCH	N1B-005	Production	6/9/2014	A Sand	15878609	1368647	4814	NAD 27
ACTIVE	NICHOLS RANCH	N1B-019	Production	6/9/2014	A Sand	15878480	1368688	4818	NAD 27
ACTIVE	NICHOLS RANCH	N1B-057	Production	6/5/2014	A Sand	15878378	1368733	4824	NAD 27
ACTIVE	NICHOLS RANCH	N1A-016	Production	6/4/2014	A Sand	15878674	1368205	4803	NAD 27
ACTIVE	NICHOLS RANCH	N1A-002	Production	6/3/2014	A Sand	15878833	1368308	4785	NAD 27
ACTIVE	NICHOLS RANCH	N1A-050	Production	6/3/2014	A Sand	15878563	1368420	4796	NAD 27
ACTIVE	NICHOLS RANCH	N1B-087	Production	6/3/2014	A Sand	15878312	1369109	4839	NAD 27
ACTIVE	NICHOLS RANCH	N1A-086	Production	6/2/2014	A Sand	15878682	1368272	4803	NAD 27

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ACTIVE	NICHOLS RANCH	N1A-030	Production	5/29/2014	A Sand	15878884	1368276	4783	NAD 27
ACTIVE	NICHOLS RANCH	N1B-033	Production	5/29/2014	A Sand	15878469	1368688	4819	NAD 27
ACTIVE	NICHOLS RANCH	N1B-077	Production	5/29/2014	A Sand	15878274	1368793	4832	NAD 27
ACTIVE	NICHOLS RANCH	N1A-001	Production	5/28/2014	A Sand	15878797	1368216	4793	NAD 27
ACTIVE	NICHOLS RANCH	N1B-069	Production	5/28/2014	A Sand	15878344	1368810	4833	NAD 27
ACTIVE	NICHOLS RANCH	N1A-045-1	Production	5/27/2014	A Sand	15878513	1368402	4802	NAD 27
ACTIVE	NICHOLS RANCH	N1A-079	Production	5/27/2014	A Sand	15878523	1368394	4802	NAD 27
ACTIVE	NICHOLS RANCH	N1B-004	Production	5/27/2014	A Sand	15878523	1368649	4815	NAD 27
ACTIVE	NICHOLS RANCH	N1B-074	Production	5/27/2014	A Sand	15878366	1368925	4840	NAD 27
ACTIVE	NICHOLS RANCH	N1A-008-1	Production	5/22/2014	A Sand	15878656	1368603	4818	NAD 27
ACTIVE	NICHOLS RANCH	N1B-040	Production	5/22/2014	A Sand	15878391	1368788	4829	NAD 27
ACTIVE	NICHOLS RANCH	N1B-003	Production	5/21/2014	A Sand	15878442	1368646	4815	NAD 27
ACTIVE	NICHOLS RANCH	N1B-023	Production	5/19/2014	A Sand	15878264	1368678	4819	NAD 27
ACTIVE	NICHOLS RANCH	N1B-002	Production	5/15/2014	A Sand	15878370	1368644	4815	NAD 27
ACTIVE	NICHOLS RANCH	N1B-022	Production	5/15/2014	A Sand	15878337	1368680	4818	NAD 27
ACTIVE	NICHOLS RANCH	N1B-029	Production	5/15/2014	A Sand	15878381	1368642	4814	NAD 27
ACTIVE	NICHOLS RANCH	N1A-053	Production	5/14/2014	A Sand	15878394	1368419	4811	NAD 27
ACTIVE	NICHOLS RANCH	N1A-111	Production	5/12/2014	A Sand	15878477	1368593	4811	NAD 27
ACTIVE	NICHOLS RANCH	N1A-112	Production	5/12/2014	A Sand	15878379	1368595	4806	NAD 27
ACTIVE	NICHOLS RANCH	N1A-110	Production	5/5/2014	A Sand	15878378	1368517	4810	NAD 27
ACTIVE	NICHOLS RANCH	N1B-001	Production	5/5/2014	A Sand	15878305	1368643	4816	NAD 27
ACTIVE	NICHOLS RANCH	N1A-024	Production	4/29/2014	A Sand	15878816	1368616	4796	NAD 27
ACTIVE	NICHOLS RANCH	N1A-036	Production	4/24/2014	A Sand	15878420	1368284	4819	NAD 27
ACTIVE	NICHOLS RANCH	N1A-084	Production	4/23/2014	A Sand	15878443	1368340	4813	NAD 27
ACTIVE	NICHOLS RANCH	N1A-077	Production	4/22/2014	A Sand	15878353	1368464	4813	NAD 27
ACTIVE	NICHOLS RANCH	N1A-070	Production	4/21/2014	A Sand	15878276	1368597	4790	NAD 27
ACTIVE	NICHOLS RANCH	N1A-057	Production	4/15/2014	A Sand	15878471	1368275	4815	NAD 27
ACTIVE	NICHOLS RANCH	N1A-103	Production	4/15/2014	A Sand	15878329	1368507	4811	NAD 27

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ACTIVE	NICHOLS RANCH	N1A-073	Production	4/14/2014	A Sand	15878484	1368603	4811	NAD 27
ACTIVE	NICHOLS RANCH	N1A-029	Production	4/9/2014	A Sand	15878884	1368218	4787	NAD 27
ACTIVE	NICHOLS RANCH	N1A-067	Production	4/8/2014	A Sand	15878307	1368551	4807	NAD 27
ACTIVE	NICHOLS RANCH	N1A-012	Production	4/3/2014	A Sand	15878835	1368175	4789	NAD 27
ACTIVE	NICHOLS RANCH	N1A-093	Production	4/3/2014	A Sand	15878423	1368514	4807	NAD 27
ACTIVE	NICHOLS RANCH	N1A-011	Production	3/31/2014	A Sand	15878367	1368513	4809	NAD 27
ACTIVE	NICHOLS RANCH	N1A-047	Production	3/31/2014	A Sand	15878460	1368385	4807	NAD 27
ACTIVE	NICHOLS RANCH	N1A-101	Production	3/31/2014	A Sand	15878439	1368439	4807	NAD 27
ACTIVE	NICHOLS RANCH	N1A-019	Production	3/25/2014	A Sand	15878505	1368222	4814	NAD 27
ACTIVE	NICHOLS RANCH	N1A-026	Production	3/25/2014	A Sand	15878409	1368227	4821	NAD 27
ACTIVE	NICHOLS RANCH	N1A-034	Production	3/25/2014	A Sand	15878693	1368575	4807	NAD 27
ACTIVE	NICHOLS RANCH	N1A-035	Production	3/25/2014	A Sand	15878431	1368342	4813	NAD 27
ACTIVE	NICHOLS RANCH	N1A-088	Production	3/20/2014	A Sand	15878359	1368272	4824	NAD 27
ACTIVE	NICHOLS RANCH	N1A-027	Production	3/19/2014	A Sand	15878462	1368284	4815	NAD 27
ACTIVE	NICHOLS RANCH	CW064	Production	3/10/2014	A Sand	15876470	1370734	4766	NAD 27
ACTIVE	NICHOLS RANCH	MUN-05-1	Monitor	2/9/2014	1 Sand	15877659	1370098	4807	NAD 27
ACTIVE	NICHOLS RANCH	N1C-026	Production	7/29/2013	A Sand	15877938	1369278	4858	NAD 27
ACTIVE	NICHOLS RANCH	N1C-010	Production	1/25/2013	A Sand	15878133	1369029	4857	NAD 27
ACTIVE	NICHOLS RANCH	N1C-017	Production	1/16/2013	A Sand	15878187	1369359	4854	NAD 27
ACTIVE	NICHOLS RANCH	N1C-002	Production	1/15/2013	A Sand	15878071	1368858	4848	NAD 27
ACTIVE	NICHOLS RANCH	N1C-021	Production	1/8/2013	A Sand	15878089	1368943	4857	NAD 27
ACTIVE	NICHOLS RANCH	N1C-014	Production	1/7/2013	A Sand	15878037	1368942	4857	NAD 27
ACTIVE	NICHOLS RANCH	N1C-023	Production	1/3/2013	A Sand	15878000	1369023	4860	NAD 27
ACTIVE	NICHOLS RANCH	N1C-016	Production	1/2/2013	A Sand	15878161	1369427	4849	NAD 27
ACTIVE	NICHOLS RANCH	N1C-013	Production	12/27/2012	A Sand	15878134	1369373	4868	NAD 27
ACTIVE	NICHOLS RANCH	N1C-012	Production	12/18/2012	A Sand	15878064	1369050	4857	NAD 27
ACTIVE	NICHOLS RANCH	N1C-020	Production	12/14/2012	A Sand	15878122	1368967	4856	NAD 27
ACTIVE	NICHOLS RANCH	N1B-080	Production	12/6/2012	A Sand	15878257	1369112	4844	NAD 27

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ACTIVE	NICHOLS RANCH	N1B-092	Production	11/30/2012	A Sand	15878229	1369076	4844	NAD 27
ACTIVE	NICHOLS RANCH	N1C-009	Production	11/30/2012	A Sand	15878190	1369309	4856	NAD 27
ACTIVE	NICHOLS RANCH	N1C-029	Production	11/30/2012	A Sand	15877974	1369221	4854	NAD 27
ACTIVE	NICHOLS RANCH	N1B-103	Production	11/21/2012	A Sand	15878252	1369324	4874	NAD 27
ACTIVE	NICHOLS RANCH	N1B-098	Production	11/19/2012	A Sand	15878224	1369247	4848	NAD 27
ACTIVE	NICHOLS RANCH	N1C-011	Production	11/16/2012	A Sand	15878169	1369256	4848	NAD 27
ACTIVE	NICHOLS RANCH	N1B-102	Production	11/15/2012	A Sand	15878250	1369265	4849	NAD 27
ACTIVE	NICHOLS RANCH	N1B-101	Production	11/6/2012	A Sand	15878250	1369193	4848	NAD 27
ACTIVE	NICHOLS RANCH	N1B-048	Production	11/5/2012	A Sand	15878321	1369051	4835	NAD 27
ACTIVE	NICHOLS RANCH	N1B-073-2	Production	11/2/2012	A Sand	15878419	1368779	4829	NAD 27
ACTIVE	NICHOLS RANCH	N1B-099	Production	11/1/2012	A Sand	15878325	1369232	4848	NAD 27
ACTIVE	NICHOLS RANCH	N1B-055	Production	10/29/2012	A Sand	15878261	1369045	4841	NAD 27
ACTIVE	NICHOLS RANCH	N1B-096	Production	10/26/2012	A Sand	15878309	1369061	4836	NAD 27
ACTIVE	NICHOLS RANCH	N1B-093	Production	10/24/2012	A Sand	15878313	1369098	4839	NAD 27
ACTIVE	NICHOLS RANCH	N1B-088	Production	10/23/2012	A Sand	15878369	1369108	4835	NAD 27
ACTIVE	NICHOLS RANCH	N1B-058	Production	10/19/2012	A Sand	15878366	1369033	4831	NAD 27
ACTIVE	NICHOLS RANCH	N1B-091	Production	10/18/2012	A Sand	15878398	1369070	4830	NAD 27
ACTIVE	NICHOLS RANCH	N1B-086	Production	10/15/2012	A Sand	15878432	1368830	4834	NAD 27
ACTIVE	NICHOLS RANCH	N1B-070	Production	10/12/2012	A Sand	15878371	1369022	4832	NAD 27
ACTIVE	NICHOLS RANCH	N1B-076	Production	10/9/2012	A Sand	15878471	1368999	4825	NAD 27
ACTIVE	NICHOLS RANCH	N1B-084	Production	10/5/2012	A Sand	15878478	1369058	4827	NAD 27
ACTIVE	NICHOLS RANCH	N1B-015-1	Production	9/27/2012	A Sand	15878383	1368985	4833	NAD 27
ACTIVE	NICHOLS RANCH	N1B-071	Production	9/25/2012	A Sand	15878424	1369027	4827	NAD 27
ACTIVE	NICHOLS RANCH	N1B-044	Production	9/24/2012	A Sand	15878432	1368966	4830	NAD 27
ACTIVE	NICHOLS RANCH	N1B-072	Production	9/17/2012	A Sand	15878329	1368985	4840	NAD 27
ACTIVE	NICHOLS RANCH	N1B-043	Production	9/14/2012	A Sand	15878319	1368985	4839	NAD 27
ACTIVE	NICHOLS RANCH	N1B-075	Production	9/4/2012	A Sand	15878352	1368818	4833	NAD 27
ACTIVE	NICHOLS RANCH	N1B-067	Production	8/31/2012	A Sand	15878466	1368722	4823	NAD 27

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ACTIVE	NICHOLS RANCH	N1B-035	Production	8/29/2012	A Sand	15878446	1368725	4822	NAD 27
ACTIVE	NICHOLS RANCH	N1B-066	Production	8/10/2012	A Sand	15878476	1368777	4829	NAD 27
ACTIVE	NICHOLS RANCH	N1B-065	Production	8/9/2012	A Sand	15878496	1368909	4827	NAD 27
ACTIVE	NICHOLS RANCH	N1B-037-1	Production	8/8/2012	A Sand	15878367	1368735	4823	NAD 27
ACTIVE	NICHOLS RANCH	N1B-062	Production	8/7/2012	A Sand	15878513	1368735	4824	NAD 27
ACTIVE	NICHOLS RANCH	N1B-045	Production	8/6/2012	A Sand	15878513	1368824	4831	NAD 27
ACTIVE	NICHOLS RANCH	N1B-009-1	Production	8/3/2012	A Sand	15878375	1368932	4839	NAD 27
ACTIVE	NICHOLS RANCH	N1B-020	Production	7/31/2012	A Sand	15878622	1368649	4813	NAD 27
ACTIVE	NICHOLS RANCH	N1B-034	Production	7/30/2012	A Sand	15878465	1368782	4829	NAD 27
ACTIVE	NICHOLS RANCH	N1B-039	Production	7/26/2012	A Sand	15878471	1368884	4835	NAD 27
ACTIVE	NICHOLS RANCH	N1B-051	Production	7/24/2012	A Sand	15878550	1368767	4825	NAD 27
ACTIVE	NICHOLS RANCH	N1B-041	Production	7/23/2012	A Sand	15878561	1368769	4824	NAD 27
ACTIVE	NICHOLS RANCH	N1B-046	Production	7/20/2012	A Sand	15878341	1368820	4833	NAD 27
ACTIVE	NICHOLS RANCH	N1B-049	Production	7/19/2012	A Sand	15878463	1368876	4836	NAD 27
ACTIVE	NICHOLS RANCH	N1B-054	Production	7/16/2012	A Sand	15878501	1368824	4832	NAD 27
ACTIVE	NICHOLS RANCH	N1A-010	Production	7/10/2012	A Sand	15878308	1368316	4823	NAD 27
ACTIVE	NICHOLS RANCH	N1B-032	Production	7/9/2012	A Sand	15878648	1368763	4818	NAD 27
ACTIVE	NICHOLS RANCH	N1B-047	Production	6/29/2012	A Sand	15878508	1368724	4823	NAD 27
ACTIVE	NICHOLS RANCH	N1B-024	Production	6/27/2012	A Sand	15878608	1368735	4819	NAD 27
ACTIVE	NICHOLS RANCH	N1B-027	Production	6/26/2012	A Sand	15878668	1368650	4809	NAD 27
ACTIVE	NICHOLS RANCH	N1B-028	Production	6/26/2012	A Sand	15878511	1368648	4816	NAD 27
ACTIVE	NICHOLS RANCH	N1B-025	Production	6/25/2012	A Sand	15878696	1368710	4811	NAD 27
ACTIVE	NICHOLS RANCH	N1A-108	Production	6/21/2012	A Sand	15878828	1368561	4793	NAD 27
ACTIVE	NICHOLS RANCH	N1A-092	Production	6/20/2012	A Sand	15878918	1368287	4770	NAD 27
ACTIVE	NICHOLS RANCH	N1A-100	Production	6/20/2012	A Sand	15878430	1368576	4804	NAD 27
ACTIVE	NICHOLS RANCH	N1A-104	Production	6/15/2012	A Sand	15878327	1368599	4808	NAD 27
ACTIVE	NICHOLS RANCH	N1B-021	Production	6/14/2012	A Sand	15878404	1368684	4818	NAD 27
ACTIVE	NICHOLS RANCH	N1A-081	Production	6/13/2012	A Sand	15878320	1368319	4824	NAD 27

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ACTIVE	NICHOLS RANCH	N1A-087	Production	6/6/2012	A Sand	15878875	1368313	4773	NAD 27
ACTIVE	NICHOLS RANCH	N1A-096	Production	5/31/2012	A Sand	15878833	1368345	4776	NAD 27
ACTIVE	NICHOLS RANCH	MPN-03	Monitor	5/30/2012	A Sand	15878143	1368962	4854	NAD 27
ACTIVE	NICHOLS RANCH	N1A-015-1	Production	5/25/2012	A Sand	15878660	1368400	4793	NAD 27
ACTIVE	NICHOLS RANCH	N1A-106	Production	5/24/2012	A Sand	15878359	1368455	4813	NAD 27
ACTIVE	NICHOLS RANCH	N1A-009	Production	5/23/2012	A Sand	15878741	1368609	4801	NAD 27
ACTIVE	NICHOLS RANCH	N1A-109	Production	5/23/2012	A Sand	15878346	1368453	4814	NAD 27
ACTIVE	NICHOLS RANCH	N1A-025	Production	5/22/2012	A Sand	15878766	1368521	4798	NAD 27
ACTIVE	NICHOLS RANCH	N1A-090	Production	5/21/2012	A Sand	15878394	1368308	4819	NAD 27
ACTIVE	NICHOLS RANCH	N1A-098	Production	5/17/2012	A Sand	15878351	1368358	4818	NAD 27
ACTIVE	NICHOLS RANCH	N1A-082	Production	5/16/2012	A Sand	15878721	1368415	4780	NAD 27
ACTIVE	NICHOLS RANCH	N1A-064	Production	5/15/2012	A Sand	15878370	1368345	4817	NAD 27
ACTIVE	NICHOLS RANCH	N1A-078	Production	5/15/2012	A Sand	15878656	1368461	4784	NAD 27
ACTIVE	NICHOLS RANCH	N1A-076	Production	5/11/2012	A Sand	15878461	1368396	4806	NAD 27
ACTIVE	NICHOLS RANCH	N1A-061	Production	5/9/2012	A Sand	15878410	1368406	4810	NAD 27
ACTIVE	NICHOLS RANCH	N1A-072	Production	5/9/2012	A Sand	15878386	1368427	4811	NAD 27
ACTIVE	NICHOLS RANCH	N1A-069	Production	5/8/2012	A Sand	15878386	1368315	4818	NAD 27
ACTIVE	NICHOLS RANCH	N1A-058	Production	5/7/2012	A Sand	15878452	1368294	4816	NAD 27
ACTIVE	NICHOLS RANCH	N1A-022	Production	5/1/2012	A Sand	15878338	1368415	4815	NAD 27
ACTIVE	NICHOLS RANCH	N1A-059	Production	4/26/2012	A Sand	15878401	1368236	4823	NAD 27
ACTIVE	NICHOLS RANCH	N1A-055	Production	4/25/2012	A Sand	15878422	1368349	4813	NAD 27
ACTIVE	NICHOLS RANCH	N1A-054	Production	4/24/2012	A Sand	15878753	1368317	4791	NAD 27
ACTIVE	NICHOLS RANCH	N1A-051	Production	4/18/2012	A Sand	15878792	1368362	4787	NAD 27
ACTIVE	NICHOLS RANCH	N1B-006-1	Production	4/12/2012	A Sand	15878681	1368650	4808	NAD 27
ACTIVE	NICHOLS RANCH	N1A-062	Production	4/11/2012	A Sand	15878657	1368615	4810	NAD 27
ACTIVE	NICHOLS RANCH	N1A-043	Production	4/4/2012	A Sand	15878539	1368301	4810	NAD 27
ACTIVE	NICHOLS RANCH	N1A-046	Production	4/3/2012	A Sand	15878490	1368339	4808	NAD 27
ACTIVE	NICHOLS RANCH	N1A-052	Production	3/30/2012	A Sand	15878720	1368539	4802	NAD 27

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ACTIVE	NICHOLS RANCH	N1A-048	Production	3/29/2012	A Sand	15878689	1368506	4796	NAD 27
ACTIVE	NICHOLS RANCH	N1A-005	Production	3/27/2012	A Sand	15878603	1368568	4807	NAD 27
ACTIVE	NICHOLS RANCH	N1A-014	Production	3/21/2012	A Sand	15878918	1368181	4784	NAD 27
ACTIVE	NICHOLS RANCH	N1A-049	Production	3/21/2012	A Sand	15878624	1368501	4798	NAD 27
ACTIVE	NICHOLS RANCH	N1B-016	Production	3/21/2012	A Sand	15878307	1368924	4840	NAD 27
ACTIVE	NICHOLS RANCH	N1A-040	Production	3/15/2012	A Sand	15878582	1368264	4809	NAD 27
ACTIVE	NICHOLS RANCH	N1B-018	Production	3/6/2012	A Sand	15878565	1368692	4818	NAD 27
ACTIVE	NICHOLS RANCH	N1B-012	Production	3/5/2012	A Sand	15878649	1368689	4813	NAD 27
ACTIVE	NICHOLS RANCH	N1B-013	Production	3/2/2012	A Sand	15878879	1368702	4796	NAD 27
ACTIVE	NICHOLS RANCH	N1A-013	Production	3/1/2012	A Sand	15878967	1368203	4783	NAD 27
ACTIVE	NICHOLS RANCH	N1B-014	Production	3/1/2012	A Sand	15878824	1368690	4799	NAD 27
ACTIVE	NICHOLS RANCH	N1A-031	Production	2/27/2012	A Sand	15878791	1368576	4797	NAD 27
ACTIVE	NICHOLS RANCH	N1A-018	Production	2/7/2012	A Sand	15878460	1368182	4818	NAD 27
ACTIVE	NICHOLS RANCH	MPN-01-1	Monitor	2/3/2012	A Sand	15878553	1368349	4803	NAD 27
ACTIVE	NICHOLS RANCH	MUN-01-1	Monitor	1/31/2012	1 Sand	15878507	1368392	4802	NAD 27
ACTIVE	NICHOLS RANCH	MPN-02-1	Monitor	1/30/2012	A Sand	15878694	1368637	4803	NAD 27
ACTIVE	NICHOLS RANCH	N1B-100	Production	1/30/2012	A Sand	15878293	1369172	4846	NAD 27
ACTIVE	NICHOLS RANCH	N1B-094	Production	1/28/2012	A Sand	15878271	1369171	4846	NAD 27
ACTIVE	NICHOLS RANCH	N1A-006	Production	1/17/2012	A Sand	15878571	1368615	4813	NAD 27
ACTIVE	NICHOLS RANCH	MRN-34-2	Monitor	1/12/2012	A Sand	15879231	1367826	4788	NAD 27
ACTIVE	NICHOLS RANCH	N1B-008	Production	1/9/2012	A Sand	15878852	1368656	4796	NAD 27
ACTIVE	NICHOLS RANCH	N1B-007	Production	1/6/2012	A Sand	15878778	1368654	4799	NAD 27
ACTIVE	NICHOLS RANCH	MRN-02-2	Monitor	1/3/2012	A Sand	15879365	1368729	4816	NAD 27
ACTIVE	NICHOLS RANCH	MRN-03-2	Monitor	12/30/2011	A Sand	15879055	1369109	4845	NAD 27
ACTIVE	NICHOLS RANCH	MON-05	Monitor	12/16/2011	B Sand	15877649	1370069	4804	NAD 27
ACTIVE	NICHOLS RANCH	MPN-06	Production	12/16/2011	A Sand	15876941	1370158	4832	NAD 27
ACTIVE	NICHOLS RANCH	MUN-06	Monitor	12/15/2011	1 Sand	15876977	1370126	4822	NAD 27
ACTIVE	NICHOLS RANCH	MON-06	Monitor	12/14/2011	B Sand	15876939	1370093	4823	NAD 27

Appendix B
Well Completion Details
October 1, 2016 to September 30, 2017 Annual Report
Uranerz Permit to Mine 778

Status	Mine Name	Well Name	Well Type	Completion Date	Geologic Unit Name	NORTHING (UTM 13 Survey Ft)	EASTING (UTM 13 Survey Ft)	Top of Casing (Elevation in ft)	DATUM
ACTIVE	NICHOLS RANCH	MPN-04	Production	12/14/2011	A Sand	15877976	1369582	4844	NAD 27
ACTIVE	NICHOLS RANCH	MUN-03	Monitor	12/13/2011	1 Sand	15878166	1368931	4850	NAD 27
ACTIVE	NICHOLS RANCH	MUN-04	Monitor	12/5/2011	1 Sand	15878022	1369579	4845	NAD 27
ACTIVE	NICHOLS RANCH	MPN-05	Production	12/2/2011	A Sand	15877617	1370100	4805	NAD 27
ACTIVE	NICHOLS RANCH	MON-04	Monitor	11/30/2011	B Sand	15877986	1369621	4849	NAD 27
ACTIVE	NICHOLS RANCH	MRN-32	Monitor	11/30/2011	A Sand	15878266	1367725	4811	NAD 27
ACTIVE	NICHOLS RANCH	MUN-02	Monitor	11/29/2011	1 Sand	15878726	1368680	4805	NAD 27
ACTIVE	NICHOLS RANCH	MON-02	Monitor	11/22/2011	B Sand	15878678	1368679	4809	NAD 27
ACTIVE	NICHOLS RANCH	MRN-01	Monitor	11/22/2011	A Sand	15879442	1368252	4776	NAD 27
ACTIVE	NICHOLS RANCH	MON-01	Monitor	11/18/2011	B Sand	15878524	1368321	4808	NAD 27
ACTIVE	NICHOLS RANCH	MRN-04	Monitor	11/17/2011	A Sand	15878744	1369485	4851	NAD 27
ACTIVE	NICHOLS RANCH	MRN-33	Monitor	11/16/2011	A Sand	15878758	1367686	4834	NAD 27
ACTIVE	NICHOLS RANCH	MON-07	Monitor	11/15/2011	B Sand	15877215	1370399	4853	NAD 27
ACTIVE	NICHOLS RANCH	MPN-07	Production	11/14/2011	A Sand	15877161	1370421	4852	NAD 27
ACTIVE	NICHOLS RANCH	MUN-07	Monitor	11/14/2011	1 Sand	15877202	1370466	4851	NAD 27
ACTIVE	NICHOLS RANCH	MRN-05	Monitor	11/11/2011	A Sand	15878444	1369871	4863	NAD 27
ACTIVE	NICHOLS RANCH	MRN-31	Monitor	11/11/2011	A Sand	15877906	1368047	4838	NAD 27
ACTIVE	NICHOLS RANCH	MRN-27	Monitor	11/10/2011	A Sand	15876913	1369513	4768	NAD 27
ACTIVE	NICHOLS RANCH	MRN-06	Monitor	11/9/2011	A Sand	15878243	1370314	4833	NAD 27
ACTIVE	NICHOLS RANCH	MRN-30	Monitor	11/9/2011	A Sand	15877734	1368510	4883	NAD 27
ACTIVE	NICHOLS RANCH	MRN-07	Monitor	11/7/2011	A Sand	15877880	1370644	4824	NAD 27
ACTIVE	NICHOLS RANCH	MRN-18-1	Monitor	11/4/2011	A Sand	15874379	1372097	4694	NAD 27
ACTIVE	NICHOLS RANCH	MRN-28	Monitor	11/3/2011	A Sand	15877220	1369274	4804	NAD 27
ACTIVE	NICHOLS RANCH	MRN-29	Monitor	11/1/2011	A Sand	15877529	1368956	4822	NAD 27
ACTIVE	NICHOLS RANCH	MUN-08	Monitor	10/28/2011	1 Sand	15876816	1370653	4804	NAD 27
ACTIVE	NICHOLS RANCH	MRN-20-1	Monitor	10/25/2011	A Sand	15874667	1371792	4713	NAD 27
ACTIVE	NICHOLS RANCH	MRN-17	Monitor	10/21/2011	A Sand	15874165	1372457	4698	NAD 27
ACTIVE	NICHOLS RANCH	MRN-15	Monitor	10/20/2011	A Sand	15874820	1372822	4716	NAD 27

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Well Completion Details
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Uranerz Permit to Mine 778

Status	Mine Name	Well Name	Well Type	Completion Date	Geologic Unit Name	NORTHING (UTM 13 Survey Ft)	EASTING (UTM 13 Survey Ft)	Top of Casing (Elevation in ft)	DATUM
ACTIVE	NICHOLS RANCH	MRN-16	Monitor	10/20/2011	A Sand	15874371	1372831	4707	NAD 27
ACTIVE	NICHOLS RANCH	MON-08	Monitor	10/14/2011	B Sand	15876860	1370678	4809	NAD 27
ACTIVE	NICHOLS RANCH	MUN-09	Monitor	10/12/2011	1 Sand	15876094	1370949	4750	NAD 27
ACTIVE	NICHOLS RANCH	MPN-09	Monitor	10/11/2011	A Sand	15876111	1370907	4756	NAD 27
ACTIVE	NICHOLS RANCH	MON-09	Monitor	10/10/2011	B Sand	15876068	1370915	4754	NAD 27
ACTIVE	NICHOLS RANCH	MRN-25	Monitor	10/7/2011	A Sand	15876271	1370169	4812	NAD 27
ACTIVE	NICHOLS RANCH	MRN-26	Monitor	10/7/2011	A Sand	15876472	1369724	4782	NAD 27
ACTIVE	NICHOLS RANCH	MRN-24	Monitor	10/5/2011	A Sand	15875861	1370442	4764	NAD 27
ACTIVE	NICHOLS RANCH	MRN-08	Monitor	10/4/2011	A Sand	15877521	1370974	4816	NAD 27
ACTIVE	NICHOLS RANCH	MRN-09	Monitor	10/3/2011	A Sand	15877223	1371335	4796	NAD 27
ACTIVE	NICHOLS RANCH	MPN-10	Production	9/30/2011	A Sand	15876149	1371447	4765	NAD 27
ACTIVE	NICHOLS RANCH	MON-10	Monitor	9/29/2011	B Sand	15876122	1371445	4766	NAD 27
ACTIVE	NICHOLS RANCH	MRN-10	Monitor	9/28/2011	A Sand	15876768	1371509	4776	NAD 27
ACTIVE	NICHOLS RANCH	MRN-11	Monitor	9/27/2011	A Sand	15876466	1371882	4790	NAD 27
ACTIVE	NICHOLS RANCH	MRN-12	Monitor	9/26/2011	A Sand	15876023	1372146	4770	NAD 27
ACTIVE	NICHOLS RANCH	MPN-11	Production	9/22/2011	A Sand	15875562	1371553	4769	NAD 27
ACTIVE	NICHOLS RANCH	MON-11	Monitor	9/21/2011	B Sand	15875528	1371614	4766	NAD 27
ACTIVE	NICHOLS RANCH	MPN-12	Production	9/20/2011	A Sand	15875508	1371973	4743	NAD 27
ACTIVE	NICHOLS RANCH	MON-12	Monitor	9/7/2011	B Sand	15875439	1371980	4739	NAD 27
ACTIVE	NICHOLS RANCH	MON-13	Monitor	9/6/2011	B Sand	15874954	1372219	4714	NAD 27
ACTIVE	NICHOLS RANCH	MRN-21	Monitor	9/1/2011	A Sand	15874816	1371344	4747	NAD 27
ACTIVE	NICHOLS RANCH	MRN-13	Monitor	8/31/2011	A Sand	15875652	1372463	4742	NAD 27
ACTIVE	NICHOLS RANCH	MRN-22	Monitor	8/31/2011	A Sand	15875269	1371163	4741	NAD 27
ACTIVE	NICHOLS RANCH	MRN-14	Monitor	8/30/2011	A Sand	15875305	1372811	4726	NAD 27
ACTIVE	NICHOLS RANCH	MRN-23	Monitor	8/22/2011	A Sand	15875657	1370872	4722	NAD 27
ACTIVE	NICHOLS RANCH	N1C-001	Production	12/17/2009	A Sand	15878201	1369040	4845	NAD 27
ACTIVE	NICHOLS RANCH	MPN-13	Production	12/16/2009	A Sand	15874980	1372177	4716	NAD 27
ACTIVE	NICHOLS RANCH	MON-03	Monitor	11/18/2009	B Sand	15878200	1368955	4848	NAD 27

Appendix B
Well Completion Details
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Uranerz Permit to Mine 778

Status	Mine Name	Well Name	Well Type	Completion Date	Geologic Unit Name	NORTHING (UTM 13 Survey Ft)	EASTING (UTM 13 Survey Ft)	Top of Casing (Elevation in ft)	DATUM
ACTIVE	NICHOLS RANCH	MUN-19	Monitor	8/31/2006	1 Sand	15874624	1369514	4718	NAD 27
ACTIVE	NICHOLS RANCH	MON-19	Monitor	8/22/2006	B Sand	15874658	1369582	4716	NAD 27

Appendix C

Tables

TABLE 1 - Appendix C
Unplanned Releases
October 1, 2016 to September 30, 2017 Annual Report
Uranerz Permit to Mine 778

Date	Location	Quantity (gallons)	Quality	Cause
6/12/2017	PA #1, N1C-047	4500	Injection Fluid	Wind blew off the well box, breaking off the air release valve in the process which caused a spill.
12/7/2016	PA #1, N1A-007	2800	Injection Fluid	Plastic wellhead valve broke and leak detection failed.
11/15/2016	PA #1, CI043B	55	Recovery Fluid	HH5 shut down during swabbing operations causing overflow of the recovery well. Approximately 10 gallons entered a draw.

TABLE 2 - Appendix C
Long-term Topsoil Stockpiles
October 1, 2016 to September 30, 2017 Annual Report
Uranerz Permit to Mine 778

Nichols Ranch Unit				
Stockpile No.	Location	Year	Depth (ft) (from highest point)	Quantity (yd³)
1	Site Facility	2011	13	7500
2	Silo	2011	9	2056
3	Production Area 1 Wellfield - North end	2014	9	280
4	Workforce Housing	2014	7	613
5	Production Area 1 Wellfield across from Stockpile No. 3	2015	3	154
6	NICH-DW-4 pad area	2015	13	2479
7	NICH-DW-1 pad area	2015	13	2897
8	PA #1 - Header House 6 Building	2015	7	40
9	PA #1 - Header House 7 Building	2016	8	203
10	PA #1 - Header House 8 Building	2016	8	241
12	PA #2 - Header House 10 Wellfield Area	2016	12	2654
13	PA #2 Header House 9 Building	2017	7	108
14	PA #1 Header House 5 Building	2015	5	93
Topsoil Total Qty				19318

TABLE 3 - Appendix C
Surface Disturbance Acreage
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Uranerz Permit to Mine 778

Nichols Ranch Unit

Report Year	Location	Disturbed Acreage	Acreage Remaining to be Reclaimed*
2017	Workforce Housing leach field	0.02	0.00
	Header House 9 trunkline	0.47	0.00
	<i>Acreage Affected 2017</i>	0.49	
2016	Production Area #2 Header House 9 and 10 areas	15.06	6.54
	Road from cement silo to Production Area #1 (header house 8)	0.77	0.54
	<i>Acreage Affected 2016</i>	15.83	
2015	Production Area #2 Monitor Well Locations and drilling	13.50	0.00
	road into temporary staging area (near HH 4)	0.67	0.00
	Production Area #1 header house 7 - 8 (delineation drilling)	19.80	0.00
	Subsoil locations for DDW	0.84	0.00
	Delineation Drilling header house 5	2.50	0.00
	Production Area #1 header houses 3,4, 5 and 6	41.84	0.00
	<i>Acreage Affected 2015</i>	79.15	
2014	11e2 Byproduct Storage Area in Production Area #1	0.02	0.02
	Pipelines to DDW and Plant Well	0.04	0.00
	Delineation Drilling in Production Area #1	2.00	0.00
	Workforce Housing Area & Road	0.41	0.41
	<i>Acreage Affected 2014</i>	2.47	
2013	Nich DW-1 and Nich DW-4 pads and associated pipelines	5.00	3.68
	Manifold Building Area	0.05	0.05
	<i>Acreage Affected 2013</i>	5.05	
2012	Production Area #1 Headerhouses 1 & 4	1.00	0.00
	Production Area #1 Wellfield - HH 1 & 2	10.00	0.00
	Production Area #1 Main Trunkline	8.00	0.00
	CPP Fence and Silo Access Fence	0.40	0.40
	CPP 25-year Ditch	0.36	0.00
	<i>Acreage Affected 2012</i>	19.76	
2011	Plant Facility Area	7.80	7.80
	Waterline Corridor	0.90	0.00
	Silo Access Location	2.20	2.20
	Monitor Well Locations (71)	14.00	0.00
	<i>Acreage Affected 2011</i>	24.90	
Total		147.65	21.64

*Total Acreage Affected less Acreage Remaining to be Reclaimed is equal to Acreage Reclaimed (Table 5)

TABLE 4 - Appendix C
Plugged and Abandoned Wells
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Uranerz Permit to Mine 778

Well ID	Location		Abandonment Date	Abandonment Reason	Abandonment Method	Well Depth (Ft)	Well Diameter (Inches)	Casing Volume (Gallons)	Sealant Material Volume (Gallons)
	Northing	Easting							
AZ037	15877817	1368303	10/18/2016	Failed MIT	Tremie (cement slurry)	707	5	693	758
AZ028	15878260	1368280	11/22/2016	Failed MIT	Tremie (cement slurry)	657	5	644	683
AY028B	15878271	1368255	11/23/2016	Failed MIT	Tremie (cement slurry)	637	5	624	645
AX026C	15878346	1368188	11/28/2016	Failed MIT	Tremie (cement slurry)	627	5	614	670
BA032	15878058	1368337	11/28/2016	Failed MIT	Tremie (cement slurry)	677	5	663	733
AV032	15878080	1368081	1/5/2017	Failed MIT	Tremie (cement slurry)	627	5	614	670
AW021B	15878597	1368157	1/5/2017	Failed MIT	Tremie (cement slurry)	587	5	575	291
N1B-038	15878428	1368840	11/1/2017	Failed MIT	Tremie (bentonite slurry)	669	5	656	748
N1B-082	15878390	1368871	11/1/2017	Failed MIT	Tremie (bentonite slurry)	659	5	646	695

TABLE 5 - Appendix C
Surface Disturbance Reclamation
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Mine Unit	Area Reclaimed/Stabilized (Road, Wellfield, Spill Area, ETC.)	Reclamation Type (Temporary or Final)*	Topsoil Placed (Y or No)	Acres Reclaimed	Seed Used	Seed Applied (lb/acre)	Seeding Method	Seeding Dates
2012								
Nichols Ranch	Utility Corridor (water/power line) between cement silo and CPP	Temporary	Y	0.9	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	40	Broadcast	5/8/2012
	Production Area 1 Monitor Wells	Temporary	Y	14.0	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	40	Broadcast	7/31/2012
	Main Trunkline - Production Area 1	Temporary	Y	5.0	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	40	Broadcast/ drill	10/29/2012
	25-yr flood event ditch - around facilities perimeter	Temporary	Y	0.4	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	14	Drill	10/29/2012
	Production Area 1 wellfield - Header House 1 & 2	Temporary	Y	10.0	Western wheatgrass rosana, Russian wildrye bozoisky, Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	40	Broadcast	10/29/2012
Surface Acreage Reclaimed 2012				30.26				

TABLE 5 - Appendix C
Surface Disturbance Reclamation
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Uranerz Permit to Mine 778

Mine Unit	Area Reclaimed/Stabilized (Road,Wellfield,Spill Area, ETC.)	Reclamation Type (Temporary or Final)*	Topsoil Placed (Y or No)	Acres Reclaimed	Seed Used	Seed Applied (lb/acre)	Seeding Method	Seeding Dates
2013								
Nichols Ranch	Remaining Main Trunkline - Production Area 1	Temporary	Y	3	Western wheatgrass rosana, Russian wildrye bozoisky,Pubescent wheatgrass luna, Intermediate wheatgrass rush, Slender wheatgrass pryor, Alfalfa/Inoculated Falcata	40	Broadcast	1/9/2013
Surface Acreage Reclaimed 2013				3.00				
2014								
Nichols Ranch	Pipelines from water tank at cement silo to DDW and from plant water well to cement silo area	Temporary	Y	0.04	Western wheatgrass, Russian wildrye bozoisky,Pubescent wheatgrass, Intermediate wheatgrass, Slender wheatgrass, Alfalfa/Inoculated Falcata	40	Broadcast	5/20/2014
Surface Acreage Reclaimed 2014				0.04				
2015								
Nichols Ranch	Mudpits for deep disposal well locations NICH-DW-1 & NICH-DW-4 and subsoil areas	Temporary	Y	3.16	Western wheatgrass, Russian wildrye bozoisky,Pubescent wheatgrass, Intermediate wheatgrass, Slender wheatgrass, Alfalfa/Inoculated Falcata	40	Drill	5/5/2015, 9/29/2015
	Road into old temporary laydown area near header house 4 in PA#1	Temporary	Y	0.67	Western wheatgrass, Russian wildrye bozoisky,Pubescent wheatgrass, Intermediate wheatgrass, Slender wheatgrass, Alfalfa/Inoculated Falcata	40	Broadcast	5/5/2015
	Delineation drilling in header house 5	Temporary	Y	4.5	Western wheatgrass, Russian wildrye bozoisky,Pubescent wheatgrass, Intermediate wheatgrass, Slender wheatgrass, Alfalfa/Inoculated Falcata	40	Broadcast	5/5/2015
	Header houses 3, 4, 5 and 6	Temporary	Y	41.84	Western wheatgrass, Russian wildrye bozoisky,Pubescent wheatgrass, Intermediate wheatgrass, Slender wheatgrass, Alfalfa/Inoculated Falcata	40	Broadcast/ drill	5/5/2015, 9/29/2015, 10/15/2015
Surface Acreage Reclaimed 2015				50.17				

TABLE 5 - Appendix C
Surface Disturbance Reclamation
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Mine Unit	Area Reclaimed/Stabilized (Road,Wellfield,Spill Area, ETC.)	Reclamation Type (Temporary or Final)*	Topsoil Placed (Y or No)	Acres Reclaimed	Seed Used	Seed Applied (lb/acre)	Seeding Method	Seeding Dates
2016								
Nichols Ranch	Production Area 2 monitor wells locations	Temporary	Y	13.5	Western wheatgrass, Russian wildrye bozoisky,Pubescent wheatgrass, Intermediate wheatgrass, Slender wheatgrass, Alfalfa/Inoculated Falcata	40	Broadcast	9/14/2016
	Header house 7	Temporary	Y	11.17	Western wheatgrass, Russian wildrye bozoisky,Pubescent wheatgrass, Intermediate wheatgrass, Slender wheatgrass, Alfalfa/Inoculated Falcata	40	Drill	6/15/2016
	Header house 8	Temporary	Y	8.63	Western wheatgrass, Russian wildrye bozoisky,Pubescent wheatgrass, Intermediate wheatgrass, Slender wheatgrass, Alfalfa/Inoculated Falcata	40	Broadcast/ drill	8/20/2016
	Road between cement silo and Production Area 1, near header house 8	Temporary	Y	0.23	Western wheatgrass, Russian wildrye bozoisky,Pubescent wheatgrass, Intermediate wheatgrass, Slender wheatgrass, Alfalfa/Inoculated Falcata	40	Broadcast	6/10/2016
Surface Acreage Reclaimed 2016				33.53				
2017								
Nichols Ranch	Production Area 2, Header House 9 wellfield area	Temporary	Y	8.52	Western wheatgrass, Russian wildrye bozoisky,Pubescent wheatgrass, Intermediate wheatgrass, Slender wheatgrass, Alfalfa/Inoculated Falcata	40-60	Drill/ hydroseed	7/13/2017
	Workforce Housing Leach Field	Temporary	Y	0.02	Western wheatgrass, Russian wildrye bozoisky,Pubescent wheatgrass, Intermediate wheatgrass, Slender wheatgrass, Alfalfa/Inoculated Falcata	40	Broadcast	5/15/2017
	Header House 9 Trunkline	Temporary	Y	0.47	Western wheatgrass, Russian wildrye bozoisky,Pubescent wheatgrass, Intermediate wheatgrass, Slender wheatgrass, Alfalfa/Inoculated Falcata	40	Broadcast	5/15/2017
Surface Acreage Reclaimed 2017				9.01				
TOTAL				126.01				

* Reclaimed areas have had topsoil replaced

TABLE 6 - Appendix C
Building Construction
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Building Description	General Location	Purpose	Building Dimensions (Width, Length, Height)	Building Structure Square Footage (ft ³)	Concrete Volume (ft ³)
Office & Laboratory	Central Plant Area	Administrative	60'x150'x10'	9000	4500
Main Process Building (CPP)	Central Plant Area	Processing Facility	120'x60'x40' 250'x90'x40'	29700	14850
Maintenance Building	Central Plant Area	Vehicle Maintenance	60'x90'x18'	5400	2700
Header Houses 1-8*	PA #1	Wellfield Operations	12'x30'x12'	360	720
Header House 9*	PA #2	Wellfield Operations	12'x40'x12'	480	0
Pipeline Manifold	Central Plant Area	Wellfield Operations	11'x30'x6'	330	246
Deep Well Buildings (DW-1 & DW-4)	South of Central Plant Area	Liquid Effluent Disposal	12'x42'x12'	1008	504
Personnel Interim Lodging	North of Central Plant Area	Temporary Lodging	13'x60'x10'	780	NA

*Header Houses 7, 8, 9 utilize a sump rather than a concrete basement

Appendix D

Well Stimulation Information

Appendix D
Well Stimulation Data
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WELL ID	DATE	STIMULATION METHOD
AR024	10/3/2016	SWAB
AT031	10/3/2016	SWAB
DD067	10/3/2016	SWAB
AV032B	10/4/2016	SWAB
AV033B	10/4/2016	SWAB
AP025	10/5/2016	SWAB
AZ032	10/5/2016	SWAB
AO024	10/6/2016	SWAB
AQ024	10/6/2016	SWAB
AS025	10/6/2016	SWAB
AT025	10/6/2016	SWAB
AP024	10/10/2016	SWAB
AR026	10/10/2016	SWAB
AT027	10/10/2016	SWAB
AV032	10/11/2016	SWAB
AW026B	10/11/2016	SWAB
AW033	10/11/2016	SWAB
AX030B	10/11/2016	SWAB
AV030B	10/12/2016	SWAB
N1C-039	10/12/2016	SWAB
N1C-039	10/12/2016	SWAB
AU029	10/13/2016	SWAB
AY030C	10/14/2016	SWAB
AY031B	10/14/2016	SWAB
AW034C	10/17/2016	SWAB
AY030B	10/17/2016	SWAB
N1B-089-1	10/17/2016	SWAB
AV034	10/18/2016	SWAB
AW034	10/18/2016	SWAB
AW034B	10/18/2016	SWAB
AQ025	10/19/2016	SWAB
AU033D	10/19/2016	SWAB
AW032	10/19/2016	SWAB
AW032C	10/20/2016	SWAB
AW032C	10/20/2016	SWAB

WELL ID	DATE	STIMULATION METHOD
AX033B	10/20/2016	SWAB
AX033B	10/20/2016	SWAB
AX033	10/21/2016	SWAB
AX033	10/21/2016	SWAB
AX033C	10/21/2016	SWAB
AX033C	10/21/2016	SWAB
AV034B	10/24/2016	SWAB
AV034B	10/24/2016	SWAB
AX026	10/24/2016	SWAB
AX026	10/24/2016	SWAB
AX026B	10/24/2016	SWAB
AX026B	10/24/2016	SWAB
AW022	10/25/2016	SWAB
AW022	10/25/2016	SWAB
AX025	10/25/2016	SWAB
AX025	10/25/2016	SWAB
AX023	10/26/2016	SWAB
AX023	10/26/2016	SWAB
AX026C	10/26/2016	SWAB
AX026C	10/26/2016	SWAB
AV024	10/27/2016	SWAB
AX021	10/27/2016	SWAB
AY027	10/27/2016	SWAB
BB027	10/27/2016	SWAB
BB031	10/27/2016	SWAB
AU033C	10/31/2016	SWAB
AV035	10/31/2016	SWAB
AV035	10/31/2016	SWAB
AZ029	10/31/2016	SWAB
AZ029	10/31/2016	SWAB
BA028	10/31/2016	SWAB
BD028	10/31/2016	SWAB
BD031B	10/31/2016	SWAB
AZ028B	11/1/2016	SWAB
AZ028B	11/1/2016	SWAB
AZ029B	11/1/2016	SWAB
AZ029B	11/1/2016	SWAB
AT038	11/2/2016	SWAB
AT038	11/2/2016	SWAB
AV020	11/2/2016	SWAB

WELL ID	DATE	STIMULATION METHOD
AW022B	11/2/2016	SWAB
AW022B	11/2/2016	SWAB
AW022B	11/2/2016	SWAB
AZ033	11/2/2016	SWAB
AZ034	11/2/2016	SWAB
BA032B	11/2/2016	SWAB
BA036	11/2/2016	SWAB
AW036	11/3/2016	SWAB
AX035	11/3/2016	SWAB
AX035B	11/3/2016	SWAB
AY035	11/3/2016	SWAB
AY035	11/3/2016	SWAB
AY035B	11/3/2016	SWAB
AY035B	11/3/2016	SWAB
AZ035	11/3/2016	SWAB
AZ035	11/3/2016	SWAB
AW021C	11/4/2016	SWAB
AW035	11/4/2016	SWAB
AY034	11/4/2016	SWAB
AY034B	11/4/2016	SWAB
AV041	11/7/2016	SWAB
AX037	11/7/2016	SWAB
AX037C	11/7/2016	SWAB
AX040	11/7/2016	SWAB
AX041	11/7/2016	SWAB
AY036	11/7/2016	SWAB
AY036B	11/7/2016	SWAB
AV038	11/8/2016	SWAB
AV039	11/8/2016	SWAB
AV039B	11/8/2016	SWAB
AW037	11/8/2016	SWAB
AW040	11/8/2016	SWAB
AX037B	11/8/2016	SWAB
AP025	11/9/2016	SWAB
AV037B	11/9/2016	SWAB
AW038	11/9/2016	SWAB
AX038	11/9/2016	SWAB
AZ037D	11/9/2016	SWAB
AY028C	11/10/2016	SWAB
AZ037C	11/10/2016	SWAB

WELL ID	DATE	STIMULATION METHOD
AY028	11/14/2016	SWAB
CI043	11/14/2016	SWAB
CH044	11/15/2016	SWAB
CI043C	11/16/2016	SWAB
DJ070	11/16/2016	SWAB
BX034	11/17/2016	SWAB
BW035	11/21/2016	SWAB
DQ079	11/21/2016	SWAB
DG067	11/23/2016	SWAB
CI039	11/28/2016	SWAB
DC062	11/28/2016	SWAB
BT035	11/29/2016	SWAB
DD075	11/29/2016	SWAB
DW090B	12/8/2016	SWAB
AV032C	12/15/2016	SWAB
AV032C	12/15/2016	SWAB
DT090	12/20/2016	SWAB
DT089	12/21/2016	SWAB
DR088	12/28/2016	SWAB
AY029	1/9/2017	SWAB
AX026D	1/10/2017	SWAB
CX063	1/10/2017	SWAB
DV092	1/12/2017	SWAB
DW087	1/12/2017	SWAB
CI038	1/16/2017	SWAB
CJ042	1/17/2017	SWAB
CL053B	1/17/2017	SWAB
CL051	1/19/2017	SWAB
CW058	1/19/2017	SWAB
DU082	1/23/2017	SWAB
DY092B	1/23/2017	SWAB
EA096	1/25/2017	SWAB
N1G-011	2/6/2017	SWAB
DX085	2/7/2017	SWAB
DW085	2/9/2017	SWAB
DW090	2/13/2017	SWAB
EC098	2/14/2017	SWAB
MUN-12	2/15/2017	SWAB
EF099	2/16/2017	SWAB
EH102	2/20/2017	SWAB

WELL ID	DATE	STIMULATION METHOD
DJ075	2/21/2017	SWAB
DN086	2/21/2017	SWAB
DG067	2/22/2017	SWAB
DE066	2/27/2017	SWAB
DG074	3/1/2017	SWAB
N1A-010	3/6/2017	SWAB
N1A-081	3/6/2017	SWAB
ED098	3/13/2017	SWAB
DW087	3/15/2017	SWAB
CS059	3/16/2017	SWAB
CV063	3/20/2017	SWAB
CV064	3/20/2017	SWAB
DC068	3/21/2017	SWAB
DC059	3/23/2017	SWAB
DK069	3/28/2017	SWAB
DJ070	3/29/2017	SWAB
DN074	3/29/2017	SWAB
DF074	3/30/2017	SWAB
DH075	3/30/2017	SWAB
DP078	4/6/2017	SWAB
DQ079	4/6/2017	SWAB
CD038	4/12/2017	SWAB
CF040	4/13/2017	SWAB
N1C-039	4/13/2017	SWAB
CD034	4/17/2017	SWAB
N1C-044	4/17/2017	SWAB
AX026D	4/18/2017	SWAB
AX026D	4/18/2017	SWAB
AX026D	4/18/2017	SWAB
AY029	4/18/2017	SWAB
AY029	4/18/2017	SWAB
AW032C	4/24/2017	SWAB
AX026B	4/24/2017	SWAB
AY030B	4/24/2017	SWAB
AO024	5/2/2017	SWAB
AV034B	5/3/2017	SWAB
AX030B	5/3/2017	SWAB
AY031B	5/3/2017	SWAB
AU033C	5/4/2017	SWAB
AU033C	5/4/2017	SWAB

WELL ID	DATE	STIMULATION METHOD
AV035	5/4/2017	SWAB
AY035B	5/4/2017	SWAB
AR026	5/8/2017	SWAB
AR026	5/8/2017	SWAB
CL041	5/8/2017	SWAB
CL041	5/8/2017	SWAB
AW034C	5/9/2017	SWAB
AW034C	5/9/2017	SWAB
EE097	5/9/2017	SWAB
EE097	5/9/2017	SWAB
BB031	5/10/2017	SWAB
BB031	5/10/2017	SWAB
CB036B	5/10/2017	SWAB
CB036B	5/10/2017	SWAB
DG067	5/10/2017	SWAB
DG067	5/10/2017	SWAB
CX063	5/11/2017	SWAB
CX063	5/11/2017	SWAB
CY056	5/11/2017	SWAB
CY056	5/11/2017	SWAB
DD067	5/11/2017	SWAB
DD067	5/11/2017	SWAB
CU058	5/15/2017	SWAB
CU058	5/15/2017	SWAB
CW058	5/15/2017	SWAB
CW058	5/15/2017	SWAB
EF104	5/15/2017	SWAB
EF104	5/15/2017	SWAB
CR049	5/16/2017	SWAB
CR049	5/16/2017	SWAB
CU056	5/16/2017	SWAB
CU056	5/16/2017	SWAB
DP078	5/16/2017	SWAB
DP078	5/16/2017	SWAB
CR051	5/17/2017	SWAB
CR051	5/17/2017	SWAB
CT053	5/17/2017	SWAB
CT053	5/17/2017	SWAB
DR088	5/17/2017	SWAB
DR088	5/17/2017	SWAB

WELL ID	DATE	STIMULATION METHOD
CQ051	5/22/2017	SWAB
CQ051	5/22/2017	SWAB
AW034C	5/23/2017	SWAB
AW034C	5/23/2017	SWAB
CT060	5/23/2017	SWAB
CT060	5/23/2017	SWAB
DC062	5/23/2017	SWAB
DC062	5/23/2017	SWAB
CO046B	5/24/2017	SWAB
CO046B	5/24/2017	SWAB
DB072	5/24/2017	SWAB
DB072	5/24/2017	SWAB
DW087	5/24/2017	SWAB
DW087	5/24/2017	SWAB
CK046	5/25/2017	SWAB
CK046	5/25/2017	SWAB
DB071C	5/25/2017	SWAB
DB071C	5/25/2017	SWAB
DC068	5/25/2017	SWAB
DC068	5/25/2017	SWAB
CO048	5/30/2017	SWAB
CO048	5/30/2017	SWAB
DT080	5/30/2017	SWAB
DT080	5/30/2017	SWAB
DS081	5/31/2017	SWAB
DS081	5/31/2017	SWAB
DX088	5/31/2017	SWAB
DX088	5/31/2017	SWAB
DH075	6/1/2017	SWAB
DH075	6/1/2017	SWAB
EC098	6/1/2017	SWAB
EC098	6/1/2017	SWAB
N1G-011	6/1/2017	SWAB
N1G-011	6/1/2017	SWAB
DU088B	6/2/2017	SWAB
DU088B	6/2/2017	SWAB
DF065B	6/5/2017	SWAB
DF065B	6/5/2017	SWAB
DI067	6/5/2017	SWAB
DI067	6/5/2017	SWAB

WELL ID	DATE	STIMULATION METHOD
DI077	6/5/2017	SWAB
DI077	6/5/2017	SWAB
DF074	6/6/2017	SWAB
DF074	6/6/2017	SWAB
DO084B	6/6/2017	SWAB
DO084B	6/6/2017	SWAB
DP076	6/6/2017	SWAB
DP076	6/6/2017	SWAB
DG066B	6/7/2017	SWAB
DG066B	6/7/2017	SWAB
DJ074	6/7/2017	SWAB
DJ074	6/7/2017	SWAB
DJ075	6/7/2017	SWAB
DJ075	6/7/2017	SWAB
DC068	6/8/2017	SWAB
DC068	6/8/2017	SWAB
DN086	6/8/2017	SWAB
DN086	6/8/2017	SWAB
DV092	6/8/2017	SWAB
DV092	6/8/2017	SWAB
BX034	6/12/2017	SWAB
BX034	6/12/2017	SWAB
DD067	6/12/2017	SWAB
DD067	6/12/2017	SWAB
DX085	6/12/2017	SWAB
DX085	6/12/2017	SWAB
CD034	6/13/2017	SWAB
CD034	6/13/2017	SWAB
CM044	6/13/2017	SWAB
CM044	6/13/2017	SWAB
DU082	6/13/2017	SWAB
DU082	6/13/2017	SWAB
CJ049	6/14/2017	SWAB
CJ049	6/14/2017	SWAB
N1C-001	6/14/2017	SWAB
N1C-001	6/14/2017	SWAB
CI052	6/15/2017	SWAB
CI052	6/15/2017	SWAB
N1B-048	6/15/2017	SWAB
N1B-048	6/15/2017	SWAB

WELL ID	DATE	STIMULATION METHOD
CV051B	6/19/2017	SWAB
CV051B	6/19/2017	SWAB
CY058B	6/19/2017	SWAB
CY058B	6/19/2017	SWAB
EA096	6/19/2017	SWAB
EA096	6/19/2017	SWAB
CW053	6/20/2017	SWAB
CW053	6/20/2017	SWAB
DK069	6/20/2017	SWAB
DK069	6/20/2017	SWAB
DK072	6/21/2017	SWAB
DK072	6/21/2017	SWAB
DC059	6/22/2017	SWAB
DC059	6/22/2017	SWAB
DG067	6/22/2017	SWAB
DG067	6/22/2017	SWAB
DH075	6/22/2017	SWAB
DH075	6/22/2017	SWAB
BW035	6/26/2017	SWAB
DN074	6/26/2017	SWAB
DN074	6/26/2017	SWAB
N1G-007	6/26/2017	SWAB
N1G-007	6/26/2017	SWAB
BT035	6/27/2017	SWAB
CE034	6/27/2017	SWAB
CE034	6/27/2017	SWAB
CH044	6/27/2017	SWAB
CH044	6/27/2017	SWAB
DR088	6/27/2017	SWAB
DR088	6/27/2017	SWAB
CE039	6/28/2017	SWAB
CF042	6/28/2017	SWAB
CZ055	6/28/2017	SWAB
DT087	6/28/2017	SWAB
MUN-12	6/28/2017	SWAB
CM044C	6/29/2017	SWAB
CS051	6/29/2017	SWAB
DU088	6/29/2017	SWAB
N1B-020	6/29/2017	SWAB
CO048	7/5/2017	SWAB

WELL ID	DATE	STIMULATION METHOD
DF073	7/5/2017	SWAB
EE097	7/5/2017	SWAB
N1H-004	7/6/2017	SWAB
DR087	7/7/2017	SWAB
CL051	7/10/2017	SWAB
DS090	7/10/2017	SWAB
DX093	7/10/2017	SWAB
CX063	7/11/2017	SWAB
DW085	7/11/2017	SWAB
EH102	7/11/2017	SWAB
CV063	7/12/2017	SWAB
DT089	7/12/2017	SWAB
EF104	7/12/2017	SWAB
BX037	7/13/2017	SWAB
EF099	7/13/2017	SWAB
MPN-12	7/13/2017	SWAB
DD075	7/17/2017	SWAB
N1C-039	7/17/2017	SWAB
DN086	7/18/2017	SWAB
DS092	7/18/2017	SWAB
DB071C	7/19/2017	SWAB
DO087	7/19/2017	SWAB
EA096	7/19/2017	SWAB
N1G-011	7/19/2017	SWAB
DE066	7/20/2017	SWAB
DG066B	7/20/2017	SWAB
DO084B	7/20/2017	SWAB
EC098	7/20/2017	SWAB
ED095B	7/20/2017	SWAB
DE065	7/24/2017	SWAB
DJ070	7/24/2017	SWAB
DU082	7/24/2017	SWAB
DU092	7/24/2017	SWAB
DL078	7/25/2017	SWAB
DT090	7/25/2017	SWAB
CE034	7/26/2017	SWAB
DC064	7/26/2017	SWAB
DR088	7/26/2017	SWAB
CE033	7/27/2017	SWAB
DM081	7/27/2017	SWAB

WELL ID	DATE	STIMULATION METHOD
DM084	7/27/2017	SWAB
BV034B	7/31/2017	SWAB
CB036	7/31/2017	SWAB
DR087	7/31/2017	SWAB
DX088	7/31/2017	SWAB
DX085	8/1/2017	SWAB
N1B-087	8/1/2017	SWAB
N1C-019	8/1/2017	SWAB
AY029	8/2/2017	SWAB
AY031B	8/2/2017	SWAB
DW087	8/2/2017	SWAB
AZ032	8/3/2017	SWAB
N1C-034-1	8/3/2017	SWAB
N1C-056	8/3/2017	SWAB
AX030B	8/7/2017	SWAB
N1C-057-1	8/7/2017	SWAB
CF040	8/8/2017	SWAB
CG036	8/8/2017	SWAB
DW090	8/8/2017	SWAB
N1C-025	8/8/2017	SWAB
CI042B	8/9/2017	SWAB
CL045	8/9/2017	SWAB
MPN-13	8/9/2017	SWAB
CI042	8/10/2017	SWAB
CL053B	8/10/2017	SWAB
CM044	8/10/2017	SWAB
EE097	8/10/2017	SWAB
DI068	8/14/2017	SWAB
DY092B	8/14/2017	SWAB
N1B-038	8/14/2017	SWAB
N1B-095-1	8/15/2017	SWAB
DE070	8/16/2017	SWAB
DF074	8/16/2017	SWAB
DV092	8/16/2017	SWAB
N1C-020	8/16/2017	SWAB
DH076	8/17/2017	SWAB
N1C-041	8/17/2017	SWAB
N1G-011	8/17/2017	SWAB
CB036B	8/21/2017	SWAB
CP050	8/22/2017	SWAB

WELL ID	DATE	STIMULATION METHOD
DG077	8/22/2017	SWAB
CQ051	8/23/2017	SWAB
DJ077	8/23/2017	SWAB
DQ079	8/24/2017	SWAB
EH102	8/24/2017	SWAB
DK072	8/28/2017	SWAB
DN080	8/28/2017	SWAB
MUN-12	8/28/2017	SWAB
DC059	8/29/2017	SWAB
DG067	8/29/2017	SWAB
DR077	8/29/2017	SWAB
DB072	8/30/2017	SWAB
DI077	8/30/2017	SWAB
N1B-070	8/30/2017	SWAB
DC074	8/31/2017	SWAB
DE072B	8/31/2017	SWAB
DC068	9/5/2017	SWAB
DP078	9/5/2017	SWAB
DX093	9/5/2017	SWAB
DN086	9/6/2017	SWAB
DR078	9/6/2017	SWAB
EF099	9/6/2017	SWAB
EF100	9/7/2017	SWAB
MUN-10	9/7/2017	SWAB
DR085	9/11/2017	SWAB
EC102	9/11/2017	SWAB
DQ086B	9/12/2017	SWAB
DX085	9/12/2017	SWAB
CI039	9/13/2017	SWAB
DT089	9/13/2017	SWAB
N1C-061	9/13/2017	SWAB
BW035	9/14/2017	SWAB
CD038	9/14/2017	SWAB
EF101	9/14/2017	SWAB
CD034	9/18/2017	SWAB
MUN-13	9/18/2017	SWAB
N1A-110	9/18/2017	SWAB
CT060	9/19/2017	SWAB
DD075	9/19/2017	SWAB
EH103	9/19/2017	SWAB

WELL ID	DATE	STIMULATION METHOD
CV063	9/20/2017	SWAB
N1G-008	9/20/2017	SWAB
CV067	9/21/2017	SWAB
EE097	9/21/2017	SWAB
N1C-039	9/26/2017	SWAB
CK039	9/27/2017	SWAB
CM044B	9/27/2017	SWAB
DW090B	9/27/2017	SWAB
EC098	9/28/2017	SWAB
N1C-044	9/28/2017	SWAB

Appendix E

Wildlife Survey Report

**WILDLIFE MONITORING REPORT
FOR 2016-2017 ANNUAL REPORT PERIOD**

Prepared for

**Uranerz Energy Corporation
(an Energy Fuels Company)**

By

**Wildlife Resources, LLC
Box 247
Big Horn, WY 82833**



June 2017

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A.1.0 INTRODUCTION

During the annual report period, Energy Fuels contracted Wildlife Resources, LLC to conduct the wildlife monitoring program specified in the Mine Plan. This annual report includes the results of the 2017 raptor nest survey and greater sage-grouse lek surveys for the Nichols Ranch, Hank and Jane Dough Units.

A.2.0 2017 SURVEY METHODS

A.2.1 Raptor Nest Survey

All known raptor nests within the permit area and a 0.5-mi buffer were located and surveyed by biologists from Wildlife Resources, LLC, of Big Horn, Wyoming from May 1 through June 15, 2017. Suitable habitats (e.g., cliffs, riparian areas) were searched a minimum of three site visits 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 (mud, 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 also searched by traversing the towns and examining burrows for whitewash or other sign of activity (i.e., muds, feathers).

A.2.2 Greater Sage-grouse Lek Surveys

Fifteen known greater sage-grouse leks or satellite leks within 2.0 mi of the Nichols Ranch ISR project area were searched for activity (three site visits) between April 1 and May 7, 2017, in accordance with the approved wildlife monitoring plan. None of these leks are located within

either the Nichols Ranch or Hank Unit boundaries. However, the Cottonwood Creek 1 lek is located within the Jane Dough Unit boundary. 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 2017 RESULTS

A.3.1 Raptor Nest Survey

156 nests within the raptor nest survey area were surveyed by biologists from Wildlife Resources, LLC, of Big Horn, Wyoming, during the spring of 2017. Of the 156 nests, 13 nests were determined to be active. Active nests included six red-tailed hawk nests, five great horned owl nests and two golden eagle nests. Four red-tailed hawk nests and one great horned owl nest were located in or near the Hank Unit survey area. One great horned owl nest was located in or near the Nichols Ranch Unit survey area. Another great horned owl nest and one golden eagle nest were located in or near the Nichols Ranch and Jane Dough Units survey areas with overlapping boundaries. Two red-tailed hawk nests, one golden eagle nest, and 2 great horned owl nests were in or near the Jane Dough Unit survey area. Seven nests--three great horned owl nests, red-tailed hawk nests and two golden eagle nests produced young. Two of the great horned owl nests and one of the red-tailed hawk nests that were recorded active in May failed by the June productivity site visit. The number of young (i.e., production) of the other three active raptor nests—all red-tailed hawk nests (Nests 5328, 13822, and 13823) could not be determined during the June visit because the biologist could not see into the nests. The locations and status of all 156 nests are described in Table A.1 and illustrated on Exhibit A.1. Three nest structures were newly recorded in 2017. One of the new nests is located in the Hank Unit, another in the Jane Dough Unit and the last new nest is located within the overlapping survey area of the Nichols Ranch and Jane Dough Units. All three new nests were active in 2017 and were occupied by one of each; red-tailed hawk, great horned owl and golden eagle.

Table A.1 Locations and Activity Status of Raptor Nests, Nichols Ranch ISR Project, 2017.

POD	WLR/BLM ID	Species	Twn	Rng	Sec., qq/q	Easting	Northing	Date	Status	Production	Condition	Sub/Ht'
Hank	A3-17	RETA	44	75	30, NE/SE	426611	4845307	5/3/2017	ACTI	RETA in nest, 2 eggs	GOOD	CLF
Hank	3654	GRHO	43	75	7, NE/NW	425810	4841363	5/10/2017	ACTI	3 Class II young	FAIR	CLF
Hank	4098	RETA	44	76	36, NE/NE	425170	4844450	5/3/2017	ACTI	RETA in nest	GOOD	CTL/50'
Hank	13819	RETA	43	75	7, NW/NE	426149	4841190	5/10/2017	ACTI	RETA in nest.	GOOD	CTL/30'
Hank	13823	RETA	43	75	8, SW/NW	426924	4840775	5/10/2017	ACTI	2 RETAs defending area.	GOOD	CTL/50'
Hank	A7-16	LOOW	44	75	30, SE/SE	426683	4844810	5/3/2017	INAC		FAIR	JUN/18'
Hank	A8-16	LOOW	44	75	31, NE/NE	426722	4844685	5/3/2017	INAC		GOOD	JUN/18'
Hank	I7-16	UNRA	44	75	32, NE/NE	426666	4844716	5/3/2017	INAC		POOR	JUN
Hank	3655	RETA	43	75	7, NW/NE	426126	4841173	5/10/2017	INAC		GONE	Tree fell
Hank	3658	GRHO	43	75	7, NW/NW	425538	4841443	5/10/2017	INAC		GONE	CTL/40'
Hank	4101	LOOW	43	76	1, NE/NE	425028	4842796	5/9/2017	INAC		FAIR	JUL/18'
Hank	4102	PRFA	44	75	32, SW/SW	427040	4843215	5/9/2017	INAC			ROC
Hank	4103	PRFA	44	75	32, SW/SW	427130	4843380	5/9/2017	INAC			ROC
Hank	4106	LOOW	44	75	30, NE/SW	425968	4845500	5/3/2017	INAC		FAIR	JUL/15'
Hank	4115	UNRA	43	76	1, NW/SE	424626	4842237	5/9/2017	INAC		POOR	JUL/12'
Hank	4527	LOOW	43	76	1, NE/SE	425162	4841951	5/9/2017	INAC		GONE	JUL/16'
Hank	4528	GOEA	43	75	7, NW/NW	425405	4841428	5/10/2017	INAC		GONE	Tree fell
Hank	4529	GRHO	43	75	7, NE/NW	425809	4841286	5/10/2017	INAC		FAIR	CTL/45'
Hank	4531	GRHO	43	75	7, SE/NW	425852	4840885	5/10/2017	INAC		FAIR	CTL/35'
Hank	4533	GRHO	43	75	7, SW/SW	425535	4839860	5/10/2017	INAC		FAIR	CTL/35'
Hank	4536	GRHO	43	76	13, NE/NE	424825	4839733	5/10/2017	INAC		POOR	CTL/45'
Hank	6185	UNRA	43	76	13, NE/NE	424860	4839710	5/10/2017	INAC		GONE	dup of 4536
Hank	6517	GRHO	43	75	8, NW/NW	426895	4841340	5/9/2017	INAC		GONE	Destroyed
Hank	6518	LOOW	43	75	7, SE/NE	426766	4840910	5/10/2017	INAC		GONE	JUL/15'
Hank	6521	UNRA	43	75	8, NW/SW	427150	4840503	5/10/2017	INAC		POOR	JUL/14'
Hank	6522	UNRA	43	75	8, NW/SW	427191	4840479	5/10/2017	INAC		GONE	CTL/35'
Hank	6523	UNRA	43	75	8, NW/SW	427193	4840478	5/10/2017	INAC		FAIR	JUL/18'
Hank	6524	UNRA	43	75	8, NW/SW	427203	4840367	5/10/2017	INAC		GONE	JUL/15'
Hank	6525	BBMA	43	75	8, SW/SW	427216	4840197	5/10/2017	INAC		GONE	Tree Fell
Hank	6534	RETA	43	75	8, SW/NW	426984	4840745	5/10/2017	INAC		GONE	CTL/50'
Hank	6535	RETA	43	75	8, SW/NW	426940	4840760	5/10/2017	INAC		GONE	CTD/10'
Hank	12340	BBMA	44	76	25, NE/NE	425109	4846310	5/8/2017	INAC		GONE	JUN
Hank	12800	UNRA	43	75	7, SE/NE	426712	4840910	5/10/2017	INAC		GONE	CTL/40'
Hank	12843	UNRA	43	75	8, NW/SW	427204	4840440	5/10/2017	INAC		POOR	JUL/20'
Hank	12844	UNRA	43	75	5, NE/SW	427461	4842035	5/9/2017	INAC		FAIR	JUL/12'
Hank	12865	GRHO	44	76	25, NE/NE	425277	4846360	5/8/2017	INAC		FAIR	CTL/30'

POD	WLR/BLM ID	Species	TwN	Rng	Sec., qq/q	Easting	Northing	Date	Status	Production	Condition	Sub/Ht'
Hank	12893	TUVU	44	75	32, SW/SW	427060	4843210	5/9/2017	INAC		GOOD	Hole
Hank	12902	UNRA	43	75	6, NW/NW	425247	4842889	5/9/2017	INAC		FAIR	JUL/25'
Hank	13009	UNRA	43	75	5, NE/SW	427465	4842089	5/9/2017	INAC		GONE	JUL/15'
Hank	13010	LOOW	43	75	5, NE/SW	427610	4842276	5/9/2017	INAC		FAIR	JUL/15'
Hank	13019	PRFA	43	75	5, NW/NW	427354	4843011	5/9/2017	INAC			CLF
Hank	13386	UNRA	44	75	30, SE/SE	426871	4845207	5/3/2017	INAC		GONE	JUN/20'
Hank	13471	UNRA	43	75	8, SW/SW	427209	4839955	5/10/2017	INAC		POOR	CTL/35'
Hank	13474	UNRA	43	75	7, NW/NW	425435	4841389	5/10/2017	INAC		POOR	CTL/45'
Hank	13488	UNRA	43	75	6, SE/NE	426826	4842568	5/9/2017	INAC		FAIR	JUN/12'
Hank	13489	UNRA	43	75	8, NW/SW	427012	4840662	5/10/2017	INAC		POOR	JUN/15'
Hank	13491	UNRA	43	75	7, NE/NW	426029	4841226	5/10/2017	INAC		GONE	JUN/18'
Hank	13492	UNRA	43	75	8, NW/SW	427004	4840672	5/10/2017	INAC		POOR	JUN/20'
Hank	13493	UNRA	43	75	8, NW/SW	427008	4840671	5/10/2017	INAC		GONE	JUN/20'
Hank	13496	BBMA	43	75	8, NW/SW	427185	4840383	5/10/2017	INAC		BBMA	JUN/25'
Hank	13584	PRFA	44	75	32, SW/SW	427033	4843274	5/9/2017	INAC			CLF
Hank	13587	UNRA	44	75	30, NW/SE	426255	4845466	5/3/2017	INAC		GONE	CTL/60'
Hank	13595	UNRA	43	75	8, SE/NW	427380	4841060	5/12/2017	INAC		POOR	JUN/30'
Hank	13853	UNRA	44	75	31, SE/NE	426768	4843928	5/3/2017	INAC		FAIR	JUN/12'
Hank	13857	BBMA	44	75	32, SW/NW	427286	4844298	5/3/2017	INAC		BBMA	JUN/15'
Jane Dough	A7-17	GOEA	43	76	32, SW/SW	417073	4833817	6/5/2017	ACTI	Young in nest	GOOD	CTL/50'
Jane Dough	5328	RETA	42	76	4, NW/NW	419083	4833001	6/5/2017	ACTI	Feathers in nest, cant see into nest	GOOD	CTL/35'
Jane Dough	12783	GRHO	43	76	30, SE/SE	416949	4835362	5/5/2017	ACTI	2 GRHO flew from tree	POOR	CTL/45'
Jane Dough	12853	GRHO	43	76	21, SW/NE	419789	4837517	4/20/2017	ACTI	2 GRHO in tree	CTL?	Tree fell
Jane Dough	13822	RETA	43	76	22, NW/SW	420457	4837175	4/20/2017	ACTI	RETA in nest	GOOD	CTL/50'
Jane Dough	A1-16	LOOW	43	76	31, SE/NE	416807	4834285	5/5/2017	INAC		FAIR	CTL/20'
Jane Dough	4219	RETA	43	76	22, SE/SW	420995	4836835	4/20/2017	INAC		GONE	CTL/50'
Jane Dough	4222	GRHO	43	76	16, NE/SE	420333	4838802	6/6/2017	INAC		FAIR	CTL
Jane Dough	4225	GRHO	43	76	28, NE/NE	420301	4836415	4/20/2017	INAC		POOR	CTL
Jane Dough	4484	RETA	43	76	33, SE/SE	420012	4833886	6/5/2017	INAC		GONE	CTL/35'
Jane Dough	4486	RETA	42	76	4, NE/NW	419423	4833358	6/5/2017	INAC		POOR	CTL/45'
Jane Dough	4502	UNRA	43	76	19, NW/SE	416604	4837147	5/5/2017	INAC		GONE	CTL
Jane Dough	4503	GRHO	43	76	29, NE/NE	418480	4836380	4/20/2017	INAC		POOR	CTL
Jane Dough	4715	BBMA	43	76	31, SW/NE	416617	4834457	5/5/2017	INAC		BBMA	WIL
Jane Dough	4889	BBMA	42	76	5, SE/NW	417544	4832633	6/5/2017	INAC		BBMA	CTL
Jane Dough	4890	RETA	42	76	5, SE/NW	417558	4832642	6/5/2017	INAC		POOR	CTL/50'
Jane Dough	4898	UNRA	43	76	32, SE/SW	417849	4833435	6/5/2017	INAC		GONE	CTL/45'
Jane Dough	5329	UNRA	42	76	4, NW/NW	419100	4833006	6/5/2017	INAC		GONE	CTL/25'

POD	WLR/BLM ID	Species	Tw	Rng	Sec., qq/q	Easting	Northing	Date	Status	Production	Condition	Sub/Ht'
Jane Dough	5423	UNRA	43	76	32, NW/SW	417344	4833817	6/5/2017	INAC		GONE	CTL/20'
Jane Dough	5424	UNRA	43	76	33, SW/SE	419520	4833402	6/5/2017	INAC		POOR	CTL/45'
Jane Dough	5425	RETA	42	76	4, NE/NW	419403	4833361	6/5/2017	INAC		POOR	CTL/50'
Jane Dough	5464	RETA	43	76	16, NE/SE	420304	4838724	6/6/2017	INAC		GONE	Tree Fell
Jane Dough	5471	GRHO	42	76	5, NW/NW	417203	4833122	6/5/2017	INAC		GONE	CTL/40'
Jane Dough	5472	UNRA	42	76	5, NW/NW	417187	4833080	6/5/2017	INAC		POOR	CTL/35'
Jane Dough	5477	GRHO	43	76	30, SW/NW	415680	4836155	5/5/2017	INAC		GONE	CTL/35'
Jane Dough	5480	RETA	43	76	29, NE/NE	418583	4836300	4/20/2017	INAC		GOOD	CTL/30'
Jane Dough	5493	RETA	43	76	28, NW/NE	419830	4836409	4/20/2017	INAC		GOOD	CTL
Jane Dough	5496	GOEA	43	76	32, SW/SW	417076	4833816	6/5/2017	INAC		FAIR	CTL/50'
Jane Dough	5504	GRHO	43	76	30, SW/NW	415674	4836131	5/5/2017	INAC		GONE	CTL/35'
Jane Dough	5513	GRHO	43	76	30, SW/SW	415651	4835483	5/5/2017	INAC		GONE	CTL/35'
Jane Dough	5514	GRHO	43	76	33, NE/NE	419975	4834468	6/5/2017	INAC		GONE	CTL
Jane Dough	5515	UNRA	43	76	31, SW/NE	416667	4834446	5/5/2017	INAC		POOR	CTL/45'
Jane Dough	5516	UNRA	43	76	28, SW/SE	419553	4835038	6/5/2017	INAC		GONE	CTL
Jane Dough	5522	UNRA	43	76	31, NE/NW	416106	4834823	5/5/2017	INAC		GONE	CTL/35'
Jane Dough	5523	UNRA	43	76	31, SW/NE	416352	4834467	5/5/2017	INAC		FAIR	CTL/45'
Jane Dough	5524	UNRA	43	76	31, SW/NE	416596	4834451	5/5/2017	INAC		GONE	CTL/50'
Jane Dough	5536	UNRA	43	76	28, NE/NE	420374	4836093	4/20/2017	INAC		GONE	CTL
Jane Dough	5743	FEHA	43	76	30, NE/NE	416876	4836232	5/5/2017	INAC		GONE	GHS
Jane Dough	5888	BBMA	42	76	5, SE/NW	417535	4832640	6/5/2017	INAC		BBMA	CTL
Jane Dough	10410	UNRA	42	76	4, SW/NW	418939	4832879	6/5/2017	INAC		GONE	CTL/45'
Jane Dough	10633	BUOW	43	76	31, SE/SW	416069	4833732	5/5/2017	INAC			P dog hole
Jane Dough	10647	GRHO	43	76	30, SW/SW	415550	4835244	5/5/2017	INAC		POOR	CTL
Jane Dough	11940	UNRA	42	76	5, NE/NW	417785	4833338	6/5/2017	INAC		FAIR	CTL
Jane Dough	11941	BBMA	43	76	31, SE/NE	416896	4834253	5/5/2017	INAC		GONE	CTL
Jane Dough	11952	UNRA	43	76	29, NE/NE	418467	4836373	4/20/2017	INAC		GONE	Tree fell
Jane Dough	11953	UNRA	43	76	29, NE/NE	418521	4836363	4/20/2017	INAC		GONE	CTL
Jane Dough	12235	UNRA	42	76	5, SE/NW	417728	4832910	6/5/2017	INAC		POOR	CTL
Jane Dough	12236	UNRA	42	76	5, SE/NW	417727	4832914	6/5/2017	INAC		GONE	CTL
Jane Dough	12759	RETA	43	76	30, SW/SW	415648	4835481	5/5/2017	INAC		POOR	CTL/40'
Jane Dough	12762	RETA	43	76	22, SE/SW	420880	4836933	4/20/2017	INAC		GONE	CTL/50'
Jane Dough	12772	UNRA	43	76	31, NE/SE	417000	4834074	6/5/2017	INAC		FAIR	CTL/45'
Jane Dough	12777	UNRA	43	76	31, SE/NE	416979	4834277	5/5/2017	INAC		GONE	CTL/20'
Jane Dough	12778	UNRA	43	76	31, SW/NW	415680	4834360	5/5/2017	INAC		POOR	CTL/40'
Jane Dough	12786	UNRA	43	76	30, SW/NW	415944	4836022	5/5/2017	INAC		POOR	CTL/30'
Jane Dough	12787	BBMA	43	76	30, SW/NW	415693	4836069	5/5/2017	INAC		POOR	CTL/40'

POD	WLR/BLM ID	Species	TwN	Rng	Sec., qq/q	Easting	Northing	Date	Status	Production	Condition	Sub/Ht'
Jane Dough	12794	UNRA	43	76	22, SW/NW	420599	4837622	4/20/2017	INAC		GONE	CTL/50'
Jane Dough	12795	UNRA	43	76	21, NW/NE	419713	4837803	4/20/2017	INAC		GONE	CTL/55'
Jane Dough	12861	UNRA	42	76	4, NE/NW	419314	4833099	6/5/2017	INAC		GONE	CTL/40'
Jane Dough	12931	UNRA	42	76	4, NE/NW	419362	4833266	6/5/2017	INAC		FAIR	CTL/35'
Jane Dough	12932	UNRA	42	76	4, NE/NW	419522	4833380	6/5/2017	INAC		GONE	CTL/40'
Jane Dough	12933	UNRA	42	76	4, NE/NW	419515	4833390	6/5/2017	INAC		POOR	CTL/35'
Jane Dough	12940	UNRA	43	76	34, SW/NE	421342	4834309	6/5/2017	INAC		POOR	CTL/35'
Jane Dough	12941	BBMA	43	76	34, SW/NE	421306	4834327	6/5/2017	INAC		GONE	CTL/20'
Jane Dough	12942	UNRA	43	76	31, SE/NE	416903	4834332	5/5/2017	INAC		POOR	CTL/30'
Jane Dough	12944	UNRA	43	76	33, SE/NE	419992	4834480	6/5/2017	INAC		GONE	Tree fell
Jane Dough	12948	UNRA	43	76	33, NW/NE	419746	4835009	6/5/2017	INAC		GONE	CTL/30'
Jane Dough	12954	UNRA	43	76	29, NW/SE	418098	4835406	5/5/2017	INAC		POOR	CTL/30'
Jane Dough	12961	UNRA	43	76	28, NE/NE	420211	4836172	4/20/2017	INAC		POOR	CTL/25'
Jane Dough	13007	UNRA	43	76	22, SW/SW	420585	4836882	4/20/2017	INAC		GONE	JUL/20'
Jane Dough	13372	GRHO	42	76	5, SE/NW	417608	4832678	6/5/2017	INAC		POOR	CTL/50'
Jane Dough	13384	UNRA	43	76	31, SW/NW	416600	4834497	5/5/2017	INAC		GONE	WIL/25'
Jane Dough	13480	UNRA	43	76	32, NW/SW	417268	4833849	6/5/2017	INAC		FAIR	CTL/60'
Jane Dough	13588	GRHO	42	76	5, SW/NE	418087	4832606	6/5/2017	INAC		FAIR	CTL/40'
Nichols Ranch/Jane Dough	A1-17	GRHO	43	76	20, NE/SE	418693	4837161	4/20/2017	ACTI	Bird in nest	FAIR	CTL/35'
Nichols Ranch/Jane Dough	5495	GOEA	43	76	21, NE/NW	419454	4837968	4/20/2017	ACTI	GOEA in nest.	GOOD	CTL/50'
Nichols Ranch/Jane Dough	4497	UNRA	43	76	17, SE/SE	418438	4838503	5/5/2017	INAC		GONE	CTL/55'
Nichols Ranch/Jane Dough	4498	UNRA	43	76	16, SE/SW	419268	4838365	4/20/2017	INAC		GONE	CTL/50'
Nichols Ranch/Jane Dough	4499	UNRA	43	76	19, NE/NE	416802	4838238	4/20/2017	INAC		POOR	CTL/45'
Nichols Ranch/Jane Dough	4500	GOEA	43	76	20, NE/NE	418591	4837803	4/20/2017	INAC		GONE	CTL/50'
Nichols Ranch/Jane Dough	5487	RETA	43	76	19, NW/NE	416557	4837912	4/20/2017	INAC		GONE	CTL/60'
Nichols Ranch/Jane Dough	5494	GOEA	43	76	20, NE/NE	418662	4837768	4/20/2017	INAC		GONE	CLF
Nichols Ranch/Jane Dough	5511	GRHO	43	76	20, NE/SE	418271	4837232	4/20/2017	INAC		GONE	Tree Fell
Nichols Ranch/Jane Dough	5537	GOEA	43	76	17, SW/SE	418170	4838235	4/20/2017	INAC		GONE	
Nichols Ranch/Jane Dough	11945	UNRA	43	76	20, NW/SE	418259	4837251	4/20/2017	INAC		POOR	CTL
Nichols Ranch/Jane Dough	11946	BBMA	43	76	20, NE/SE	418676	4837265	4/20/2017	INAC		BBMA	CTD
Nichols Ranch/Jane Dough	11947	UNRA	43	76	21, NW/NW	418751	4838059	4/20/2017	INAC		GONE	CTL
Nichols Ranch/Jane Dough	11948	UNRA	43	76	20, SE/NE	418580	4837806	4/20/2017	INAC		GONE	CTL
Nichols Ranch/Jane Dough	11949	UNRA	43	76	20, NE/SE	418100	4838187	4/20/2017	INAC		GONE	CTL
Nichols Ranch/Jane Dough	12757	GOEA	43	76	19, SE/NE	417064	4837702	4/20/2017	INAC		GONE	CTL/50'
Nichols Ranch/Jane Dough	12963	UNRA	43	76	20, NE/SE	418630	4837317	4/20/2017	INAC		POOR	CTL/50'
Nichols Ranch/Jane Dough	12965	UNRA	43	76	19, SE/NE	417032	4837780	4/20/2017	INAC		GONE	CTL/40'
Nichols Ranch/Jane Dough	12967	UNRA	43	76	16, NW/SW	419028	4838833	5/5/2017	INAC		POOR	CTL

POD	WLR/BLM ID	Species	Tw	Rng	Sec., qq/q	Easting	Northing	Date	Status	Production	Condition	Sub/Ht'
Nichols Ranch/Jane Dough	13495	LOOW	43	76	20, NE/NE	418653	4837762	4/20/2017	INAC		FAIR	JUN/25'
Nichols Ranch	5534	GRHO	43	76	16, SW/NW	418790	4839206	5/5/2017	ACTI	2 Class I young	FAIR	CTL/25'
Nichols Ranch	5486	RETA	43	76	16, SE/NW	419491	4839078	5/5/2017	INAC		POOR	CTL/55'
Nichols Ranch	5491	LOOW	43	76	16, SW/NW	418730	4839255	5/5/2017	INAC		GONE	CTL/40'
Nichols Ranch	5531	UNRA	43	76	17, NE/NW	417680	4839800	5/5/2017	INAC		POOR	CTL/40'
Nichols Ranch	5532	RETA	43	76	17, NW/NW	417390	4839590	5/5/2017	INAC		GONE	CTL/35'
Nichols Ranch	5533	RETA	43	76	17, NW/NW	417380	4839615	5/5/2017	INAC		POOR	CTL/45'
Nichols Ranch	5535	UNRA	43	76	16, SW/NW	418720	4839265	5/5/2017	INAC		GONE	CTL/25'
Nichols Ranch	13478	LOOW	43	76	16, SE/NW	419493	4839080	5/5/2017	INAC		FAIR	CTL/50'

Footnotes:

¹ **SPECIES CODES**

BUOW = Burrowing Owl
 GOEA = Golden Eagle
 GRHO = Great Horned Owl
 LOOW = Long-eared Owl
 PRFA = Prairie Falcon
 RETA = Red-tailed Hawk
 TUVU = Turkey Vulture
 UNRA = Unknown Raptor
 BBMA = Black-billed Magpie

² **BREEDING STATUS**

ACTI = Active
 INAC = Inactive

³ **NESTING SUBSTRATE**

CTD = Cottonwood Tree Dead
 CTL = Cottonwood Tree Live
 CLF = Cliff
 ROC = Rock Cavity
 JUL = Juniper Tree Live
 JUN = Juniper Tree

A.3.2 Greater Sage-grouse Lek Surveys

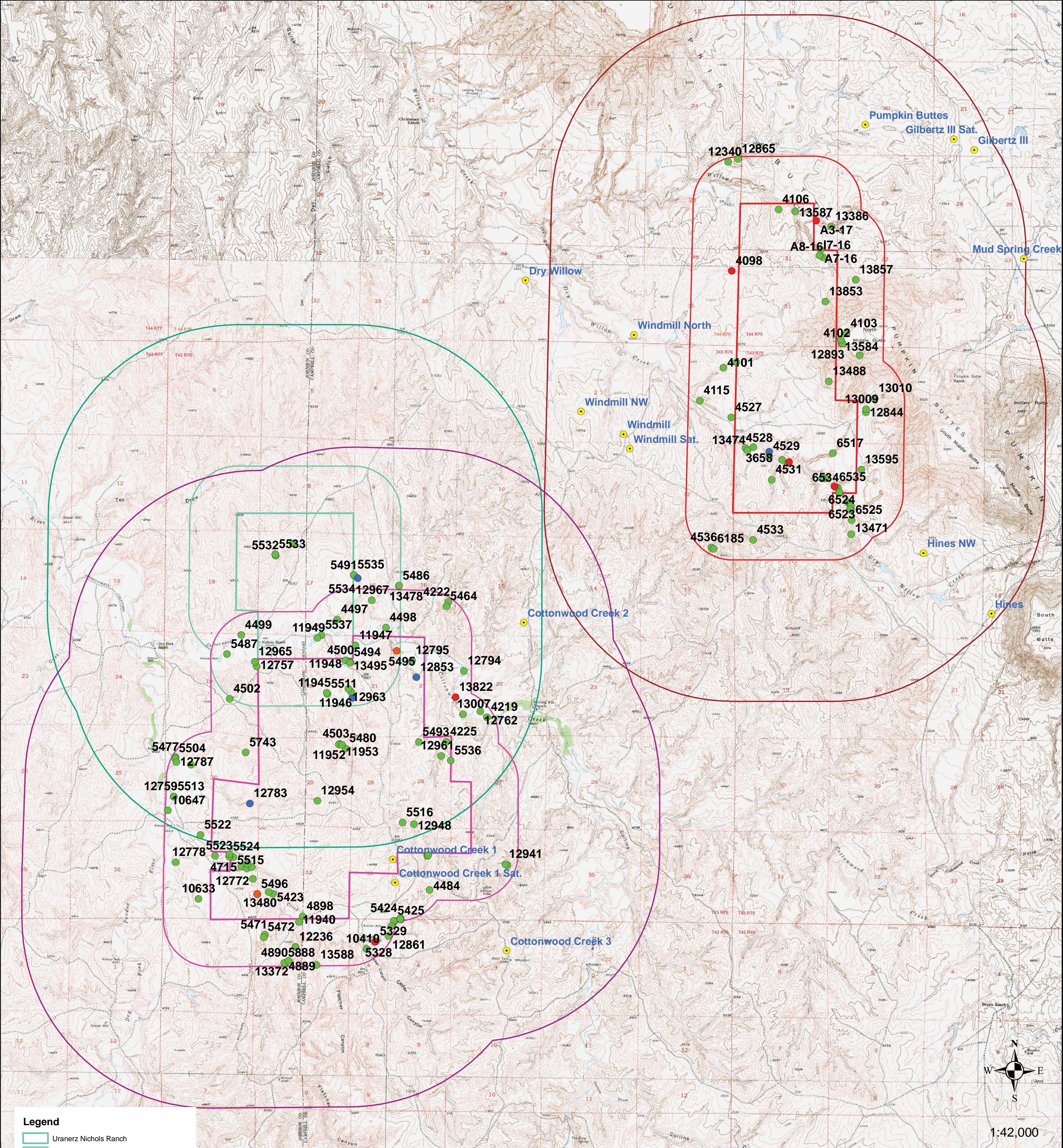
Fifteen leks were surveyed three times between April 1 and May 7, 2017, by biologists from Wildlife Resources, LLC, of Big Horn, Wyoming. Five of the leks (Hines NW, Windmill, Windmill Satellite, Windmill NW, and Pumpkin Buttes) were determined to be active in 2017. The remaining 11 leks were inactive. The Windmill Satellite lek had a peak male attendance of 16 birds, compared to a peak of 18 males observed at the lek in 2016. The locations of the leks are illustrated on Exhibit A.1 and additional lek data is presented in Table A.2, respectively.

Table A.2 Location Greater-sage Grouse Leks and Number of Birds Observed, Nichols Ranch ISR Project, 2017.

<u>Lek I.D.</u>	<u>Sec. qq/q</u>	<u>Twn</u>	<u>Rng</u>	<u>Easting</u>	<u>Northing</u>	<u>Date</u>	<u>Time</u>	<u>Conditions</u>	<u>Males</u>	<u>Females</u>	<u>Unknown</u>	<u>Air/ground</u>	<u>Comments</u>
Mud Spring Creek	33, NE/NE	44	75	430151	4844662	4/20/2017	5:54 AM		0	2	0	Ground	
						4/27/2017	5:34 AM		0	0	0	Ground	
						5/4/2017	6:02 AM		0	1	0	Ground	
Cottonwood Creek 1	33, SE/NW	43	76	419386	4834409	4/6/2017	6:20 AM		0	0	0	Ground	
						4/13/2017	6:30 AM		0	0	0	Ground	
						4/20/2017	6:25 AM		0	0	0	Ground	
Cottonwood Creek 1 Sat.	33, NE/SW	43	76	419427	4834011	4/6/2017	6:20 AM		0	0	0	Ground	
						4/13/2017	6:30 AM		0	0	0	Ground	
						4/20/2017	6:25 AM		0	0	0	Ground	
Cottonwood Creek 2	15, SE/SE	43	76	421621	4838450	4/12/2017	6:28 AM	Mostly clear, 5-15 SE, 35	0	0	0	Ground	
						4/20/2017	6:19 AM	Clear, calm, 32	0	0	0	Ground	
						4/27/2017	6:04 AM	Mostly cloudy, 0-5 SE, 30	0	0	0	Ground	
Cottonwood Creek 3	3, SW/NE	42	76	421329	4832849	4/6/2017	6:40 AM		0	0	0	Ground	
						4/13/2017	6:40 AM		0	0	0	Ground	
						4/20/2017	6:40 AM		0	0	0	Ground	
Hines	16, NW/SE	43	75	429600	4838600	4/12/2017	7:12 AM	Clear, 5-10 NW, 37	0	0	0	Ground	
						4/20/2017	7:55 AM	Clear, calm, 32	0	0	0	Ground	
						4/27/2017	6:26 AM	Partly cloudy, 0-5 NW, 30	0	0	0	Ground	
Hines NW	17, NE/NE	43	75	428443	4839637	4/12/2017	6:51 AM	Clear, 5-10 NW, 37	0	0	0	Ground	
						4/20/2017	7:16 AM	Clear, calm, 32	0	0	0	Ground	
						4/27/2017	6:20 AM	Partly cloudy, 0-5 NW, 30	6	0	0	Ground	
Dry Willow	34, SE/NE	44	76	421648	4844290	4/11/2017	6:45 AM	Partly cloudy, calm, 33	0	0	0	Ground	
						4/18/2017	6:06 AM	Partly cloudy, 0-5 E, 35	0	0	0	Ground	
						4/26/2017	6:31 AM	Clear, calm, 20	0	0	0	Ground	
Windmill	2, SE/SE	43	76	423323	4841666	4/12/2017	6:24 AM	Clear, 5-10 NW, 37	5	0	0	Ground	
						4/20/2017	6:14 AM	Clear, calm, 32	3	1	0	Ground	
						4/27/2017	5:59 AM	Partly cloudy, 0-5 NW, 30	2	2	0	Ground	

Table A.2 (Continued)

<u>Lek I.D.</u>	<u>Sec, qq/q</u>	<u>Twn</u>	<u>Rng</u>	<u>Easting</u>	<u>Northing</u>	<u>Date</u>	<u>Time</u>	<u>Conditions</u>	<u>Males</u>	<u>Females</u>	<u>Unknown</u>	<u>Air/ground</u>	<u>Comments</u>
Windmill Sat.	11, NE/NE	43	76	423429	4841417	4/12/2017	6:24 AM	Clear, 5-10 NW, 37	7	3	0	Ground	
						4/20/2017	6:14 AM	Clear, calm, 32	11	0	0	Ground	
						4/27/2017	7:03 AM	Partly cloudy, 0-5 NW, 30	16	0	0	Ground	4 males displaying on ridge 250m east of lek
Windmill North	35, SE/SE	44	76	423500	4843360	4/11/2017	6:22 AM	Partly cloudy, calm, 33	0	0	0	Ground	
						4/18/2017	6:28 AM	Partly cloudy, 0-5 E, 35	0	0	0	Ground	
						4/26/2017	5:55 AM	Clear, calm, 20	0	0	0	Ground	
Windmill NW	2, NE/SW	43	76	422599	4842051	4/12/2017	6:15 AM	Mostly clear, 5-15 SE, 35	1	0	0	Ground	Male strutting 250m N of lek
						4/20/2017	6:10 AM	Clear, calm, 32	0	0	0	Ground	
						4/27/2017	5:56 AM	Mostly cloudy, 0-5 SE, 30	0	0	0	Ground	
Pumpkin Buttes	20, NE/SW	44	75	427450	4846946	4/11/2017	6:32 AM	Partly cloudy, calm, 33	3	0	0	Ground	
						4/18/2017	6:15 AM	Partly Cloudy, 5-10 W, 36	4	0	0	Ground	
						4/26/2017	5:50 AM	Partly cloudy, 0-5 NW, 21	4	0	0	Ground	
Gilbertz III	21, SE/SW	44	75	429307	4846518	4/11/2017	7:25 AM	Partly cloudy, calm, 33	0	0	0	Ground	
						4/18/2017	6:42 AM	Partly Cloudy, 5-10 W, 36	0	0	0	Ground	
						4/26/2017	6:26 AM	Partly cloudy, 0-5 NW, 21	0	0	0	Ground	
Gilbertz III Sat.	21, SW/SW	44	75	428960	4846700	4/11/2017	7:17 AM	Partly cloudy, calm, 33	0	0	0	Ground	
						4/18/2017	6:45 AM	Partly Cloudy, 5-10 W, 36	0	0	0	Ground	
						4/26/2017	6:22 AM	Partly cloudy, 0-5 NW, 21	0	0	0	Ground	



Legend

- Uranerz Nichols Ranch
- 0.5_Mile_Buffer_Uranerz_Nichols_Ranch
- 2.0_Mile_Buffer_Uranerz_Nichols_Ranch
- Uranerz Jane Dough
- 0.5_Mile_Buffer_Uranerz_Jane_Dough
- 2.0_Mile_Buffer_Uranerz_Jane_Dough
- Uranerz Hank Unit
- 0.5_Mile_Buffer_Uranerz_Hank_Unit
- 2.0_Mile_Buffer_Uranerz_Hank_Unit
- 2017_Uranerz_Active_Raptor_Nests

Species

- GOEA
- GRHO
- RETA
- 2017_Uranerz_Inactive_Raptor_Nests
- 2017_Uranerz_Sage_Grouse_Leks

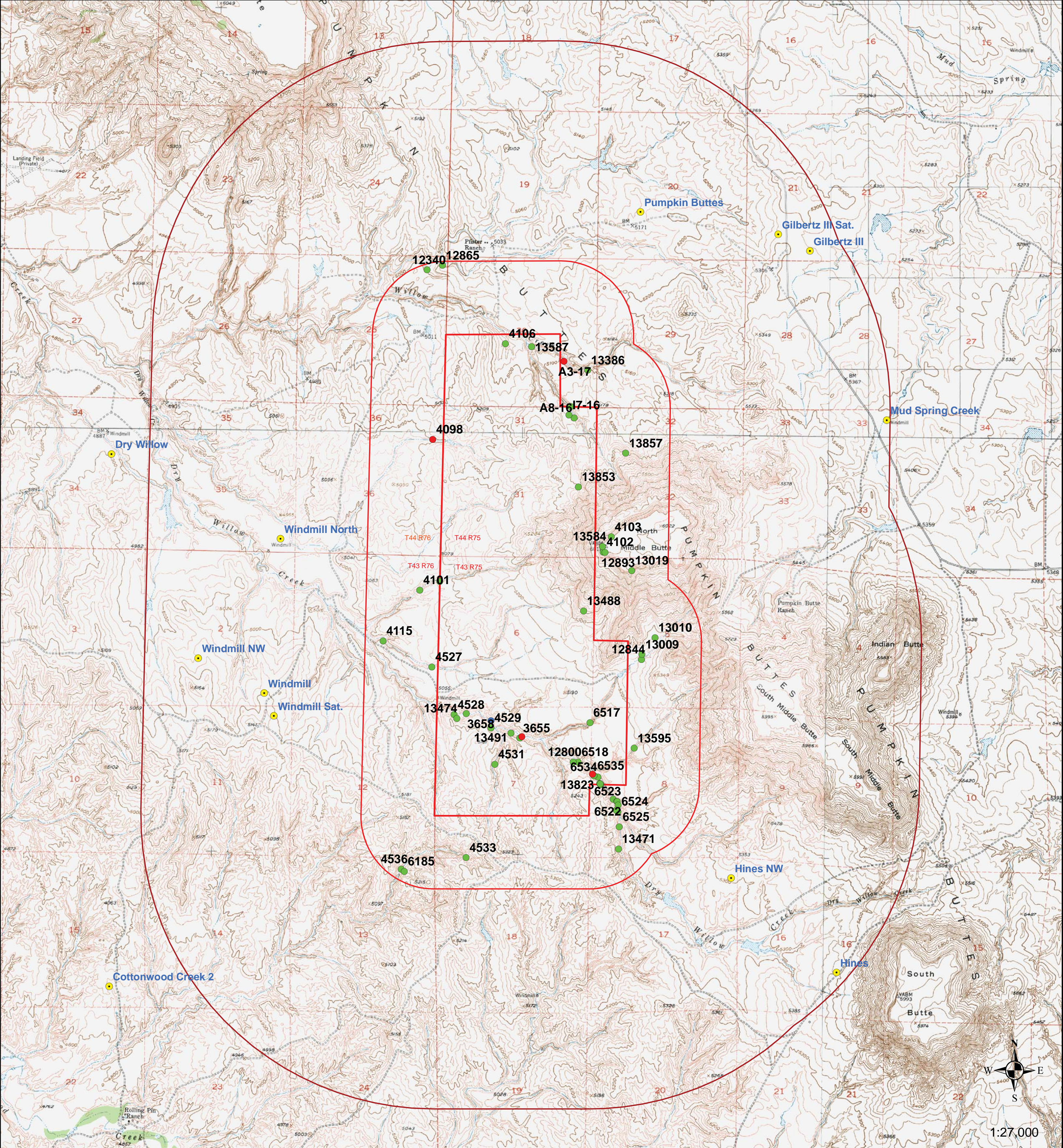
Exhibit A.1
Uranerz Energy Corporation
(an Energy Fuels Company)
Nichols Ranch ISR
Campbell County, WY

Wildlife Map
August 8, 2017



Wildlife Resources, LLC.
PO Box 247
Big Horn, WY 82833





- Legend**
- Uranerz Hank Unit
 - 0.5_Mile_Buffer_Uranerz_Hank_Unit
 - 2.0_Mile_Buffer_Uranerz_Hank_Unit
 - 2017_Hank_Unit_Active_Raptor_Nests**
 - Species**
 - GRHO
 - RETA
 - 2017_Hank_Unit_Inactive_Raptor_Nests
 - 2017_Uranerz_Sage_Grouse_Leks

Exhibit A.4
Uranerz Energy Corporation
(an Energy Fuels Company)
Nichols Ranch ISR
Hank Unit
Campbell County, WY

Wildlife Map
August 8, 2017



Wildlife Resources, LLC.
PO Box 247
Big Horn, WY 82833

Appendix F

Performance Bond Estimate



Appendix F - Surety Estimate 2018

Nichols Ranch In-Situ Recovery Project Uranerz Energy Corporation - an Energy Fuels Company

Total Restoration and Reclamation Cost Estimates

No.	Cost Item	Cost
1	GROUNDWATER RESTORATION COST	\$3,189,035
2a	PLANT EQUIPMENT REMOVAL AND DISPOSAL COST	\$114,748
2b	BUILDING DEMOLITION AND DISPOSAL COST	\$1,322,370
3	SOIL REMOVAL & DISPOSAL COST	\$82,262
4	TOTAL WELL ABANDONMENT COST	\$564,055
5	WELLFIELD EQUIPMENT REMOVAL & DISPOSAL COST	\$164,883
6	TOPSOIL REPLACEMENT & REVEGETATION COST	\$97,145
7	MISCELLANEOUS RECLAMATION COST	\$7,927
	Subtotal Restoration and Reclamation Cost Estimate	\$5,542,425
8	Miscellaneous Items	
	Contractor Profit & Overhead (10%) ¹	See Master Costs
	Unknown Contingency (15%) ²	\$831,364
	TOTAL CALCULATED IN 2016 DOLLARS ³	\$6,373,789

¹, Per WDEQ/LQD Guideline No. 12, Section II(B)(12)(b)

², Per WDEQ/LQD Guideline No. 12, Section II(B)(12)(a) and (c-h), Section II(B)(13) and NRC License Condition 9.5

³, Costs reflect both WDEQ & NRC requirements. No salvage value assumed.

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

Worksheet 1, No. 1 --
GROUNDWATER RESTORATION

Cost Item	Mining Unit		Sub Total	Notes
	Production Area #1 (PA#1)	Production Area #2 (PA#2)		
Technical Assumptions				
Wellfield Area (Ft ²)	1,573,826	222,076		
Wellfield Area (Acres)	36.13	5.10		PA#1=8 Header Houses, PA#2=1 Header House
Affected Ore Zone Area (Ft ²)	1,573,826	222,076		
Avg Completed Thickness (Ft)	18.6	18.6		
Factor for Flare	1.45	1.45		
Affected Volume:	42,446,087	5,989,397		
Porosity	0.27	0.27		
Gallons per Cubic Foot	7.48	7.48		
Gallon per Pore Volume	85,724,118	12,096,187		
Number of Wells in Unit(s)				
Recovery Wells	220	40		Recovery Wells for 8 Header Houses, PA#1 and 1 Header House, PA#2
Injection Wells	397	81		Injection Wells for 8 Header Houses and 1 Header House PA#2
Monitor Wells	68	45		Monitoring Ring, Overlying, Underlying & Production Wells
Average Well Spacing (Ft)	100	100		
Average Well Depth (Ft)	550	550		
I Groundwater Sweep				
A. Plant & Office				
Operating Assumptions:				
Flowrate (gpm)	150	150		
PV's Required	1.00	1.00		
Total Gallons for Treatment	85,724,118	12,096,187		
Total Kgal for Treatment	85,724	12,096		
Cost Assumptions:				
Power				
Avg Connected Hp	20	20		
Kwh's/Hp	0.83	0.83		
Gallons per Minute	150	150		
Gallons per Hour	9000	9000		
Cost per Hour	\$0.99	\$0.99		
Cost per Kgal (\$)	\$0.11	\$0.11		
Total Cost per Kgal	\$0.19	\$0.19		
Total Treatment Cost	\$16,075	\$2,268		
Utilities				
Time for Treatment				
Minutes for Treatment	571,494	80,641		
Hours for Treatment	9,525	1,344		
Days for Treatment	397	56		
Average Days per Month	30	30		
Months for Treatment	13.2	1.9		
Years for Treatment	1.10	0.16		
Utilities Cost (\$)	\$50,773	\$7,164		
TOTAL PLANT & OFFICE COST	\$66,848	\$9,433	\$76,281	
B. WELLFIELD				
Cost Assumptions:				
Power				
Avg Flow/Pump (gpm)	14.9	14.9		Average flow of PA1 for 2 years
Avg Hp/Pump	3.5	3.5		
Avg # of Pumps Required	10	10		
Avg Connected Hp	35	35		
Kwh's/Hp	0.93	0.93		
Gallons per Minute	150	150		
Gallons per Hour	9000	9000		
Costs per Hour (\$)	\$1.97	\$1.97		
Costs per Gallon (\$)	\$0.0002	\$0.0002		
Costs per Kgal (\$)	\$0.22	\$0.22		
Total Cost per Kgal	\$0.30	\$0.30		
TOTAL WELLFIELD COST	\$25,378	\$3,581		
TOTAL GROUNDWATER SWEEP COST	\$92,226	\$13,014	\$105,240	

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

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

Cost Item	Mining Unit		Sub Total	Notes
	Production Area #1 (PA#1)	Production Area #2 (PA#2)		
II REVERSE OSMOSIS (RO)				
A. PLANT & OFFICE				
Operating Assumptions:				
Flowrate (gpm)	150	150		
PV's Required	6	6		
Total Gallons for Treatment	514,344,706	72,577,122		
Total Kgals for Treatment	514,345	72,577		
Feed to RO (gpm)	750	750		
Permeate Flow (gpm)	600	600		
Brine Flow (gpm)	150	150		
Average RO Recovery	80%	80%		
Cost Assumptions:				
Power (RO)				
Avg Connected Hp	180	180		
kWh/Hp	0.83	0.83		
Gallons per Minute	750	750		
Gallons per Hour	45000	45000		
Cost per Hour (\$)	\$8.95	\$8.95		
Cost per Gallon (\$)	\$0.0002	\$0.0002		
Cost per Kgal (\$)	\$0.20	\$0.20		
Total Cost per Kgal (\$)	\$0.89	\$0.89		
Total Pumping Cost (\$)	\$460,304	\$64,952		
Power (RO Brine to DDW)				
Avg Connected Hp	20	20		
kWh/Hp	0.83	0.83		
Gallons per Minute	150	150		
Gallons per Hour	9,000	9,000		
Cost per Hour (\$)	\$0.99	\$0.99		
Cost per Gallon (\$)	\$0.0001	\$0.0001		
Cost per Kgal (\$)	\$0.11	\$0.11		
Total Pumping Cost (\$)	\$11,369	\$1,604		
Power (RO Permeate to Wellfield)				
Avg Connected Hp	190	190		
kWh/Hp	0.83	0.83		
Gallons per Minute	600	600		
Gallons per Hour	36,000	36,000		
Cost per Hour (\$)	\$9.45	\$9.45		
Cost per Gallon (\$)	\$0.0003	\$0.0003		
Cost per Kgal (\$)	\$0.26	\$0.26		
Total Pumping Cost (\$)	\$108,005	\$15,240		
Utilities				
Time for Treatment				
Minutes for Treatment	685,793	96,769		
Hours for Treatment	11,430	1,613		
Days for Treatment	476	67		
Average Days per Month	30	30		
Months for Treatment	16	2		
Utilities Cost (\$)	\$60,125.94	\$8,603.50		
TOTAL PLANT & OFFICE COST	\$639,804	\$90,400	\$730,203	
B. WELLFIELD				
Cost Assumptions:				
Power (wellfield to RO)				
Avg Flow/Pump (gpm)	14.9	14.9		
Avg Hp/Pump	3.5	3.5		
Avg # of Pumps Required	10	10		
Avg Connected Hp	35	35		
Kwh's/Hp	0.93	0.93		
Gallons per Minute	750	750		
Gallons per Hour	45000	45000		
Costs per Hour (\$)	\$1.96	\$1.96		
Costs per Gallon (\$)	\$0.00004	\$0.00004		
Costs per Kgal (\$)	\$0.04	\$0.04		
Total Cost per Kgal	\$0.12	\$0.12		
TOTAL WELLFIELD COST	\$61,987	\$8,747	\$70,734	
TOTAL REVERSE OSMOSIS COST	\$701,791	\$99,146	\$800,937	

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

Worksheet 1, No III --
GROUNDWATER RESTORATION

Cost Item	Mining Unit		Sub Total	Notes
	Production Area #1 (PA#1)	Production Area #2 (PA#2)		
III Deep Disposal Well (DDW)				
Operating Assumptions:				
Total Disposal Requirement				
Total Gallons	188,593,059	26,611,611		Total GWS Gallons + RO Brine Flow (Total RO Flow X 20%)
Total Kgallons	188,593	26,612		
Brine Concentration Factor	1	1		
Total Gallons	188,593,059	26,611,611		
Months of RO Operation	28.9	4.1		
Average Monthly Reqmt (Gallons)	6,526,843	6,526,843		
Average Flow (gpm)	150	150		
Total DDW Disposal (gallons)	188,593,059	26,611,611		
Total DDW Disposal (Kgallons)	188,593	26,612		
Cost Assumptions:				
Avg Connected Hp	150	150		
Kwh's/Hp	0.83	0.83		
Gallons per Minute	150	150		Permitted max flow of 150 per well
Gallons per Hour	9000	9000		
Cost per Hour (\$)	\$7.46	\$7.46		
Cost per Gallon (\$)	\$0.0008	\$0.0008		
Cost per Kgal (\$)	\$0.83	\$0.83		
Total Cost per Kgallon	\$1.596	\$1.596		
TOTAL DEEP DISPOSAL WELL COST	\$301,049	\$42,480	\$343,529	

Appendix F - 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			Sub Total	Notes
	Production Area #1 (PA#1)	Production Area #2 (PA#2)					
IV RESTORATION MONITORING							
Operating Assumptions:							
Time of Restoration (months)	29	4					
Frequency of Analysis (months)	2	2					
Quantity of Monitoring Wells	68	45					Monitoring Ring, Overlying & Underlying Wells Only
Total Sets of Analysis	14	2					
Total Sampling & Analysis Cost (\$)	\$14,280	\$1,350				\$15,630	
V STABILIZATION MONITORING							
Operating Assumptions:							
Time of Stabilization (months)	12	12					
Frequency of Analysis (months)	2	2					Monitoring Ring Wells Only
Total Sets of Analysis	6	6					Monitoring Ring Wells Only
Frequency of Analysis (months)	4	4					Production Monitoring Wells Only
Total Sets of Analysis	3	3					Production Monitoring Wells Only
Cost Assumptions:							
Power (\$/Month)	\$0	\$0					No add'l power required to sample
Total Power Cost	\$0	\$0					
Quantity of Monitoring Ring Wells	33	24					Monitoring Ring Wells Only
Sampling & Analysis (each set)	\$10,626	\$7,728					
Quantity of Production Monitoring Wells	13	7					Production Monitoring Wells Only
Sampling & Analysis (each set)	\$390	\$210					
Total Sampling & Analysis Cost (\$)	\$11,016	\$7,938					
Utilities (\$/Month)	\$0	\$0					No add'l utilities required to sample
Total Utilities Cost (\$)	\$0	\$0					
TOTAL STABILIZATION COST	\$11,016	\$7,938				\$18,954	
Va DEEP DISPOSAL WELL MONITORING							
Operating Assumptions:							
Time of Use (months)	41	16					Restoration plus Stabilization
Frequency of Analysis (months)	3	3					Quarterly Analysis required by WQD permit
Total Sets of Analysis	14	5					
Total Sampling & Analysis Cost (\$)	\$6,461	\$2,540				\$9,002	
VI LABOR							
Cost Assumptions:	No.		Hours/Year	Cost			
Crew:							
1. Supervisor	1		2080	\$89,648			
2. Operators	4		2080	\$204,755			
3. Maintenance	2		2080	\$86,902			
4. Vehicles	2		1040	\$34,000			
Cost per Year				\$415,305			
Time Required - Years	2.41	0.34					
TOTAL RESTORATION LABOR COST	\$1,000,020	\$141,109				\$1,141,129	
						\$1,175,713	

**Appendix F - 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		Sub Total	Notes
	Production Area #1 (PA#1)	Production Area #2 (PA#2)		
VII RESTORATION CAPITAL REQUIREMENTS				
I Deep Disposal Well(s)	2	0		no new disposal wells needed for Nichols #2
II Plug and Abandon DDW	\$212,115	0		
III Reverse Osmosis Unit	\$542,500	0		Additional 500 gpm RO (purchase price)
TOTAL RESTORATION CAPITAL REQUIREMENTS	\$754,615	\$0	\$754,615	
VIII RESTORATION OF EXCURSION WELLS				
I Shallow Sand Well(s)				
Total Wells in Excursion	0	0		Assume no excursions
Cost of Clean-Up	\$0	\$0		
Total Shallow Sand Cleanup	\$0	\$0		
II Ore Zone Wells				
Total Wells in Excursion	0	0		
Cost of Clean-Up	\$0	\$0		
Total Ore Zone Cleanup	\$0	\$0		
III Deep Zone Wells				
Total Wells in Excursion	0	0		
Cost of Clean-Up	\$0	\$0		
Total Deep Zone Cleanup	\$0	\$0		
TOTAL WELLFIELD COST				
TOTAL EXCURSION CLEANUP COST	\$0	\$0	\$0	
SUMMARY:				
I GROUNDWATER SWEEP	\$105,240			
II REVERSE OSMOSIS (RO)	\$800,937			
III DEEP DISPOSAL WELL	\$343,529			
IV RESTORATION MONITORING	\$15,630			
V STABILIZATION MONITORING	\$18,954			
Va DEEP DISPOSAL WELL MONITORING	\$9,002			
SUB TOTAL	\$1,293,291			
VI LABOR	\$1,141,129			
VII RESTORATION CAPITAL REQUIREMENTS	\$754,615			
VIII RESTORATION OF EXCURSION WELLS	\$0			
TOTAL GROUNDWATER RESTORATION COST	\$3,189,035			

Appendix F - 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	Sub Total	
Volume (Yds ³)	40	200	45	110	109	190	10		Accounts for 9 Header Houses - PA#1 - 8 and PA#2 - 1.
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	9.5	0.5		All but the resin/sand media is going to landfill therefore any partial loads will be combined to make a full load: Landfill loads = 30.7, License Facility loads = 5.5
I Decontamination Cost									
Area Decontaminated (Ft ²)	105	308	114	207	205	297	42		
Percent Requiring Decontamination	20%	100%	20%	0%	100%	100%	100%		
Total Decontamination Cost	\$80	\$233	\$86	\$156	\$155	\$225	\$32		
II Dismantle and Loading Cost									
Dismantle Volume (Ft ³)	105	308	114	207	205	297	42		
Total Dismantle Cost	\$811	\$2,370	\$877	\$1,591	\$1,581	\$2,290	\$322		
III Oversize Charges									
Percent Requiring Permits	40%	40%	40%	0%	100%	40%	40%		
Total Oversize Cost	\$331	\$1,656	\$373	\$0	\$2,256	\$1,573	\$83		
IV Transportation & Disposal									
A. Landfill									
Percent to be Shipped	100%	100%	100%	0%	100%	100%	100%		
Distance (Miles)	150	150	150	150	150	150	150		round trip
Transportation Cost	\$1,155	\$5,775	\$1,299	\$0	\$3,147	\$5,486	\$289		
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		
Disposal Cost	\$2,030	\$10,152	\$2,284	\$0	\$5,533	\$9,644	\$508		
Total Landfill Cost	\$3,185	\$15,927	\$3,584	\$0	\$8,680	\$15,131	\$796		
B. Licensed Site									
Percent to be Shipped	0%	0%	0%	100%	0%	0%	0%		
Distance (Miles)	1330	1330	1330	1330	1330	1330	1330		round trip
Transport Cost	\$0	\$0	\$0	\$22,688	\$0	\$0	\$0		
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	\$0	\$0	\$0	\$4,476	\$0	\$0	\$0		
Disposal Cost	0	0	0	27,677	0	0	0		
Total Licensed Site Cost	\$0	\$0	\$0	\$50,365	\$0	\$0	\$0		
Total Transportation/Disposal Cost	\$3,185	\$15,927	\$3,584	\$50,365	\$8,680	\$15,131	\$796		
TOTAL COST NICHOLS RANCH MINE	\$4,407	\$20,186	\$4,919	\$52,112	\$12,673	\$19,219	\$1,232	\$114,748	

Appendix F - 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								
Demolition Volume (Ft ³)	90,000	1,188,000	97,200	3,405	780	1,008		
Total Demolition Cost	\$28,611	\$377,665	\$30,900	\$1,082	\$248	\$320		
Volume of Disposal Material (cubic yards)	1,100	14,520	1,188	42	10	12		
Weight of Disposal Material (tons)	264	3,485	285	10	2	3		
Quantity per Truck Load (Ton)	21.6	21.6	21.6	21.6	21.6	21.6		
Number of Truckloads	12.2	161.3	13.2	0.5	0.1	0.1		
Distance to Landfill	150	150	150	150	150	150		round trip
Transportation Cost	\$29,410	\$388,208	\$31,763	\$1,113	\$255	\$329		
Total Disposal Cost (\$)	\$12,408	\$163,786	\$13,401	\$469	\$108	\$139		
TOTAL STRUCTURE DEMO & DISPOSAL	\$70,429	\$929,659	\$76,063	\$2,665	\$610	\$789	\$1,080,215	
CONCRETE DECONTAMINATION, DEMO & DISPOSAL								
Area (Ft ²) of concrete pad	9000	29700	5400	2566	0	504		1-6 header houses @ 360 sq ft each, manifold is 246 sq ft., fuel island is 160 sq ft
Average Thickness (Ft) (concrete depth)	0.5	0.5	0.5	0.5	0.5	1		
Volume (Ft ³) of concrete pad	4500	14850	2700	1283	0	504		
Volume Footings, platforms, etc (Ft ³)	579	9351	972	0	0	0		
Total Volume of concrete (Ft ³)	5079	24201	3672	1283	0	504		
Weight of Disposal Concrete 150lbs/cubic foot (reinforced concrete)	761,850	3,630,150	550,800	192,450	0	75,600		
Weight of Disposal in Tons	381	1815	275	96	0	38		
Quantity per Truck Load (Ton)	21.6	21.6	21.6	21.6	21.6	21.6		
Number of Truckloads	17.6	84.0	12.8	4.5	0.0	1.8		Partial loads will be combined to make a full load: Landfill loads = 123.2; License Facility loads = 0
Percent Requiring Decontamination	0%	29%	0%	10%	0%	100%		
Area Decontaminated (Ft ²)	0	8,672	0	257	0	504		
Decontamination Cost	\$0	\$8,846	\$0	\$262	\$0	\$514		
Demolition Cost	\$7,712	\$25,450	\$4,627	\$2,199	\$0	\$432		
Transportation & Disposal								
A. Landfill								
Percent to be Shipped	100%	100%	100%	100%	0%	100%		
Distance (Miles)	150	150	150	150	150	150		Round Trip
Transportation Cost	\$10,184	\$48,528	\$7,363	\$2,573	\$0	\$1,011		
Quantity per Truck Load (Yds ³)	20	20	20	20	20	20		
Quantity per Truck Load (Tons)	21.6	21.6	21.6	21.6	21.6	21.6		
Disposal Cost	\$17,903	\$85,309	\$12,944	\$4,523	\$0	\$1,777		
Total Landfill Cost	\$28,088	\$133,837	\$20,307	\$7,095	\$0	\$2,787		
B. Licensed Site								
Percent to be Shipped	0%	0%	0%	0%	0%	0%		
Distance (Miles)	1330	1330	1330	1330	1330	1330		Round Trip
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0		
Transport Cost	\$0	\$0	\$0	\$0	\$0	\$0		
Quantity per Truck Load (Yds ³)	20	20	20	20	20	20		
Quantity per Truck Load (Tons)	21.6	21.6	21.6	21.6	21.6	21.6		Based on avg 80lbs per cf
Unloading Cost	\$0	\$0	\$0	\$0	\$0	\$0		
Licensed Site Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0		
TOTAL TRANSPORT & DISPOSAL COST	\$35,800	\$168,132	\$24,934	\$9,556	\$0	\$3,733	\$242,156	
TOTAL BUILDING DEMO & DISPOSAL COST	\$106,229	\$1,097,791	\$100,997	\$12,220	\$610	\$4,522	\$1,322,370	

Appendix F - Surety Estimate
First Year of Operation
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Uranerz Energy Corporation

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	\$0	\$148	\$0	\$13	\$3		\$70.92/hr per WDEQ Guideline12 and 150 cy/hr (2016)
Quantity to be Shipped (Ft ³)	0	7,425	0	642	126		Assume removal of 3" of Contaminated Soil under structures where concrete foundations required decontamination, Disposal at a Licensed facility (ft3) (quantity based on area of concrete pad provided on worksheet 2b and multiplied by 0.25 inches)
Weight in Tons	0	371.25	0	32.08	6.3		
Quantity per Truck Load (Ton)	21.6	21.6	21.6	21.6	21.6		
Number of Truckloads	0.0	17.2	0.0	1.5	0.3		Partial loads will be combined to make a full load: Landfill loads = 0, License Facility loads = 19.8
Distance (Miles)	1330	1330	1330	1330	1330		Round Trip
Transportation Cost	\$0	\$70,898	\$0	\$6,125	\$1,203		
Disposal Cost (\$)	\$0	\$60,421	\$0	\$5,220	\$1,025	\$66,666	
Unloading Cost	\$0	\$13,986	\$0	\$1,208	\$237	\$15,432	
TOTAL SOILS EXC., TRANSPORT & DISPOSAL	\$0	\$74,407	\$0	\$6,429	\$1,263	\$82,099	

TOTAL SOIL REMOVAL & DISPOSAL COST	\$0	\$74,555	\$0	\$6,441	\$1,265	\$82,262	
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**Appendix F - Surety Estimate
First Year of Operation
Nichols Ranch ISR Project
Uranerz Energy Corporation**

Worksheet 4 --

Well and Delineation Hole Abandonment

Cost Item	Mining Unit		Sub Total	Notes
	Production Area #1 (PA#1)	Production Area #2 (PA#2)		
Number of Wells	685	166		Includes injection, recovery and monitor wells. See Worksheet 1, No.1, Plus 1 Plant water well and 1 domestic well. Added wells for PA#2
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/Well Bentonite Chips	\$292	\$292		
Gravel Fill Required (Ft ³ /Well)	34	34		Avg depth less 300 feet filled w/ gravel
Cost/Well Gravel Fill	\$23	\$23		
Total Materials Cost per Well	\$314	\$314		
Labor				
Hours Required per Well	2	2		
Total Labor Cost per Well	\$33	\$33		
Equipment Rental				
Hours Required per Well	1	1		Backhoe and operator
Total Equipment & Operation Cost per Well	\$46	\$46		
Total Cost per Well	\$393	\$393		
WELL ABANDONMENT COST	\$269,415.72	\$65,289.07	\$334,705	
Number of Delineation Drill Holes	100			
Average Depth (ft)	675			
Sealing Drill Hole (ft)	\$ 3.30			
Site Grading/Contouring (per site)	\$ 55.00			
Capping - precast concrete cap (ea)	\$ -			Per Chpt 8 Noncoal rules and regulations a concrete cap or dry nonslurry materials may be used and is account for in sealing drill hole
Cost Per drill hole	\$ 2,227.50			
Mobilization	\$ 1,100.00			
Delineation Drill Hole Abandonment	\$229,350			
TOTAL WELL & DELINEATION ABANDONMENT COST	\$564,055			

**Appendix F - Surety Estimate
First Year of Operation
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**Worksheet 5, No. 1 --
WELLFIELD EQUIPMENT REMOVAL & DISPOSAL**

Cost Item	Mining Unit		Sub Total	Notes
	Production Area #1 (PA#1)	Production Area #2 (PA#2)		
I Wellfield Piping				
A. Removal				
Total Number of Wells	617	121		Includes injection and recovery wells. See Worksheet 1, No.1
Feeder lines from HH to Injection wells 1" HDPE (Ft)	160,000	32,000		8 header houses & 1 HH for PA#2
Pregnant solution feeder lines from production wells to HH 1" HDPE (Ft)	86,800	16,000		8 header houses & 1 HH for PA#2
Total Quantity of 1" HDPE Piping (Ft)	246,800	48,000		
Plastic Volume (Ft ³)	809.37	157.33		Thickness Based on WL Plastics Corp PSI 160 (R1=.05479', R2=.04425')
Chipped Volume Assuming 30% Void Space (Ft ³)	1,052.18	204.53		
Disposal Weight (tons)	42.09	8.18		
Quantity per Truck Load (Tons)	21.6	21.6		Based on 20 cy per truckload and 80lbs per cf
Total Number of Truck Loads	2	0.4		Partial loads will be combined to make a full load: Landfill loads = 0, License Facility loads = 2
Total Length of Feeder line Trench (Ft)	30,850	4,000		Includes Shared Trenches - 8 header houses
Total Cost for Trunkline Removal	\$80,210	\$10,400		
Total Cost - Removal	\$80,210	\$10,400	\$90,610	
B. Survey & Decontamination				
Percent Requiring Decontamination	0	0		No survey or decon needed. Total volume to disposal
Loads for Decontamination	0	0		
Cost for Decontamination (\$/Load)	\$1,714	\$1,714		ERG (2016)
Cost for Decontamination	\$0	\$0	\$0	
C. Transport & Disposal				
1.) Landfill				
a. Transportation				
Percent to be Shipped	0%	0%		
Loads to be Shipped	0	0		
Distance (Miles)	150	150		Round Trip
Transportation Cost	\$0	\$0	\$0	
b. Disposal				
Yds ³ per Load	20	20		
Disposal Cost	\$0	\$0		
Total Cost - Landfill	\$0	\$0	\$0	
2.) Licensed Site				
a. Transportation				
Percent to be Shipped	100%	100%		
Loads to be Shipped	2	1		
Tons to be Shipped	42.09	8.18		
Distance (Miles)	1330	1330		Round Trip
Transportation Cost	\$8,037	\$1,562		
b. Disposal				
Disposal Cost	\$6,850	\$1,332		
Unloading Cost	\$92	\$47		
Total Cost - Licensed Site	\$14,979	\$2,941		
Total Cost - Transport & Disposal	\$14,979	\$2,941		
Total Cost - WF Piping Removal & Disposal	\$95,189	\$13,341	\$108,530	

**Appendix F - Surety Estimate
First Year of Operation
Nichols Ranch ISR Project
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Worksheet 5, No. II

WELLFIELD EQUIPMENT REMOVAL & DISPOSAL

Cost Item	Mining Unit		Sub Total	Notes
	Production Area #1 (PA#1)	Production Area #2 (PA#2)		
II Production Well Pumps				
A. Pump and Tubing Removal				
Number of Production Wells	220	40		From Worksheet 1 No I.
Cost of Removal	\$10,019	\$1,822		
Number of Pumps per Truck Load	180	180		
Weight of Pumps (lbs)	12540	2280		Assume 57 lbs/pump
Disposal Weight (Tons)	6.27	1.14		
Number of Truck Loads (Pumps)	1.22	0.22		Assume 20 T per truck
B. Survey & Decontamination (Pumps)				
Percent Requiring Decontamination	0%	0%		no survey as all to 11e2 licensed facility
Loads for Decontamination	0.00	0.00		
Cost for Decontamination	\$0	\$0		
C. Tubing Volume Reduction & Loading				
Length per Well (Ft)	300	300		
Total Quantity (Ft)	66000	12000		
Disposal Weight (tons)	11	2		
Quantity per Truck Load (Tons)	21.6	21.6		
Number of Truck Loads	0.52	0.09		
D. Transport & Disposal				
1.) Landfill				
a. Transportation				
Percent to be Shipped (Pumps)	0%	0%		
Loads to be Shipped	0.0	0.0		
Distance (Miles)	150	150		Round trip
Transportation Cost	\$0	\$0		
b. Disposal				
Quantity per Truck Load (Yds ³)	20	20		
Quantity per Truck Load (Tons)	21.6	21.6		
Disposal Cost	\$0	\$0		
Total Cost - Landfill	\$0	\$0		
2.) Licensed Site				
a. Transportation				
Percent to be Shipped (Pumps)	100%	100%		
Percent to be Shipped (Tubing)	100%	100%		
Loads to be Shipped	1.74	0.32		Total loads this page: Landfill loads = 0, License Facility loads = 2.5. Partial loads will be combined to make a full load.
Distance (Miles)	1330	1330		Round Trip
Transportation Cost	\$7,184	\$1,306		
b. Disposal				
Disposal Cost	\$283	\$52		
Unloading Cost	\$1,417	\$258		
Disposal Cost	\$1,701	\$309		
Total Cost - Licensed Site	\$8,885	\$1,615		
Total Cost - Transport & Disposal	\$8,885	\$1,615		
Total Cost - Pump Removal & Disposal	\$18,904	\$3,437	\$22,342	

**Appendix F - Surety Estimate
First Year of Operation
Nichols Ranch ISR Project
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Worksheet 5, No. III

WELLFIELD EQUIPMENT REMOVAL & DISPOSAL

Cost Item	Mining Unit		Sub Total	Notes
	Production Area #1 (PA#1)	Production Area #2 (PA#2)		
III Buried Trunkline				
A. Removal				
Length of Trunkline Trench (ft)	8916	846		more than one trunkline occupies a trench
Total Cost for Trunkline Removal	\$23,181.65	\$2,199.60	\$25,381.25	
4" HPDE Trunkline				The various trunklines in this section represent the trunklines going from the CPP to the header houses and back.
Piping Length (ft)	2,200	0		
Chipped Volume per foot of pipe (ft3/ft)	0.385	0.385		
Chipped Volume (ft3)	847	0		
6" HPDE Trunkline				
Piping Length (ft)	3,400	0		
Chipped Volume per foot of pipe (ft3/ft)	0.083	0.083		
Chipped Volume (ft3)	284	0		
8" HPDE Trunkline				
Piping Length (ft)	800	1,400		
Chipped Volume per foot of pipe (ft3/ft)	0.141	0.141		
Chipped Volume (ft3)	113	197		
10" HPDE Trunkline				
Piping Length (ft)	4,600	292		
Chipped Volume per foot of pipe (ft3/ft)	0.220	0.220		
Chipped Volume (ft3)	1,010	64		
14" HPDE Trunkline				
Piping Length (ft)	3,000	0		
Chipped Volume per foot of pipe (ft3/ft)	0.372	0.372		
Chipped Volume (ft3)	1,117	0		
Total Chipped Volume (ft3)	3,370	262		
Disposal Tons	14	1		8.315lb/ft per WL Plastics
Quantity per Truck Load (Tons)	21.6	21.6		
Total Number of Truck Loads	1	1		
B. Survey & Decontamination				
Percent Requiring Decontamination	0	0		No survey or decon needed. Total volume to low level disposal
Loads for Decontamination	0	0		
Cost for Decontamination (\$/Load)	\$1,714	\$1,714		ERG (2016)
Cost for Survey & Decontamination	\$0	\$0		
C. Transportation & Disposal				
1.) Landfill				
a. Transportation				
Percent to be Shipped	0%	0%		
Loads to be Shipped	0	0		
Distance (Miles)	150	150		Round Trip
Transportation Cost	\$0	\$0		
b. Disposal				
Yds ³ per Load	20	20		
Disposal Cost	\$0	\$0		
Total Cost - Landfill	\$0	\$0		
2.) Licensed Site				
a. Transportation				
Percent to be Shipped	100%	100%		Total loads this page: Landfill loads = 0, License Facility loads = 4. Partial loads will be combined to make a full load.
Loads to be Shipped	1	1		
Tons to be Shipped	14	1		
Distance (Miles)	1330	1330		Round Trip
Transportation Cost	\$2,676	\$208		
b. Disposal				
Disposal Cost	\$2,281	\$177		
Unloading Cost	\$814	\$814		
Total Cost - Licensed Site	\$4,957	\$385		
Total Cost Transportation & Disposal	\$4,957	\$385		
Total Cost - Buried Trunkline Removal & Disposal	\$28,138	\$2,584	\$25,381	

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

Worksheet 5, No. IV

WELLFIELD EQUIPMENT REMOVAL & DISPOSAL

Cost Item	Mining Unit Production Area #1 (PA#1)	Production Area #2 (PA#2)	Sub Total	Notes
IV Manholes				
A. Removal				
Total Quantity	8	2		
Total Cost of Removal (\$)	\$ 910.80	\$ 227.70	\$ 1,138.50	
Disposal Weight (Tons)	4.30	1.08		
Quantity per Truck Load (Tons)	21.6	21.6		Based on 20 cy per truckload and 80lbs per cf
Total Number of Truck Loads	0.20	0.05		
B. Survey & Decontamination				No survey or decon needed. Total volume to low level disposal
Percent Requiring Decontamination	0%	0%		
Loads for Decontamination	0	0		
Cost for Decontamination (\$/Load)	\$1,714	\$1,714		ERG (2016)
Cost for Survey & Decontamination	\$0	\$0	\$0	
C. Transportation & Disposal				
1.) Landfill				
a. Transportation				
Percent to be Shipped	0%	0%		
Loads to be Shipped	0	0		
Distance (Miles)	150	150		Round Trip
Transportation Cost	\$0	\$0		
b. Disposal				
Yds ³ per Load	20	20		
Disposal Cost	\$0	\$0	\$0	
Total Cost - Landfill	\$0	\$0		
2.) Licensed Site				
a. Transportation				
Percent to be Shipped	100%	100%		
Loads to be Shipped	0.20	0.05		Total loads this page: Landfill loads = 0, License Facility loads = 0.42. Partial loads will be combined to make a full load.
Tons to be Shipped	4.30	1.08		
Distance (Miles)	1330	1330		Round Trip
Transportation Cost	\$1,020	\$255		
b. Disposal				
Disposal Cost	\$700	\$175		
Unloading Cost	\$162	\$41		
Total Cost - Licensed Site	\$1,721	\$430		
Total Cost Transportation & Disposal	\$1,721	\$430	\$2,151	
Total Cost - Removal & Disposal	\$2,632	\$658	\$3,289	
TOTAL WELLFIELD EQUIPMENT REMOVAL & DISPOSAL COST	\$144,863	\$20,020	\$164,883	

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

Worksheet 6, No. I

TOPSOIL REPLACEMENT & REVEGETATION

Cost Item	Plant only	Notes
I Process Plant and Office Building		
A. Topsoil Handling & Grading		
Affected Area (Acres)	5.2	
Average Affected Thickness (Inch)	6	
Topsoil Volume (Yds ³)	0	topsoil stockpiled on site for replacement no extra topsoil required
Sub Total - Topsoil	\$0	
Replacement soil (Tons)	371	from worksheet 3 (Assume removal of 3" of Contaminated subsoil soil under structures where concrete foundation required decontamination)
Respread Cost for area	\$136.71	
Sub Total - replacement soil	\$2,524	includes haul, placement and spread
B. Radiation Survey & Soil Analysis		
Sub Total - Survey & Analysis	\$8,878	
C. Revegation		
Grading (\$/Acre)	\$ 60.20	WDEQ-LQD Guideline 12A (Motor grader) 2016
Fertilizer (\$/Acre)	\$202.60	BF Construction (2015) (Tractor/disk)
Seeding Prep & Seeding (\$/Acre)	\$277.60	BF Construction (2015) seeding prep includes scarification (Tractor/disk)
Mulching & Crimping (\$/Acre)	\$587.60	BF Construction (2015) seeding prep includes scarification (Mulcher/crimper used)
Sub Total Cost/Acre	\$1,128.00	
Sub Total Revegation	\$5,843	
TOTAL PLANT AND OFFICE BUILDING TOPSOIL REPLACEMENT & REVEG COST	\$17,244	

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

**Worksheet 6, No. II & III
TOPSOIL REPLACEMENT & REVEGETATION**

Cost Item	Mining Unit		Sub Total	Notes
	Production Area #1 (PA#1)	Production Area #2 (PA#2)		
II Wellfields				
A. Topsoil Handling & Grading				
Affected Area (Acres)	7	0.22		
Average Affected Thickness (Inch)	6	6		Mine Plan
Topsoil Volume (Yds ³)	0	0		Topsoil stockpiled onsite no replacement cost needed
Sub Total - Topsoil	\$0	\$0		
Replacement soil (Tons)	38.38	6.30		from worksheet 3 (Assume removal of 3" of Contaminated subsoil soil under structures where concrete foundation required decontamination)
Sub Total - replacement soil	\$246.75	\$40.51		
B. Radiation Survey & Soil Analysis				
Sub Total - Survey & Analysis	\$12,518	\$381		
C. Spill Cleanup				
Affected Area (Acres)	0.09	0		calculated that 10% of the affected acreage may require cleanup. No reportable spills have occurred in PA#2
Affected Area (Ft ²)	4069	0		
Affected Area Thickness (Ft)	0.25	0.25		
Affected Volume (Ft ³)	1017.18825	0		
Quantity per Truckload (Ft ³)	540	540		
Quantity to be Shipped (Loads)	1.9	0		Partial loads from Worksheet 5IV would be applied to a partial load from this worksheet.
Distance (Miles)	1330	1330		Round Trip
Transportation Cost	\$7,770	\$0		
Handling Cost	\$419	\$0		
Disposal Cost	\$15,451	\$0		
Sub Total - Spill Cleanup	\$23,640	\$0		
D. Revegetation				
Grading (\$/Acre)	\$ 59.29	\$ 59.29		WDEQ-LQD Guideline 12A (Motor grader)2016
Fertilizer (\$/Acre)	\$202.60	\$202.60		BF Construction (2015)
Seeding Prep & Seeding (\$/Acre)	\$277.60	\$277.60		BF Construction (2015) cost includes scarification
Mulching & Crimping (\$/Acre)	\$587.60	\$587.60		BF Construction (2015)
Sub Total Cost/Acre	\$1,127	\$1,127		
Sub Total Revegetation	\$8,337	\$251		
Sub Total - Wellfields	\$44,741	\$632		
TOTAL WELLFIELDS COST	\$44,741	\$632	\$45,373	
III Roads				
A. Topsoil Handling & Grading				
Affected Area (Acres)	4.14	0.43		2500 feet by 60 feet wide
Average Affected Thickness (Ins)	6	6		
Topsoil Volume (Yds ³)	0	0		Topsoil stockpiled onsite no replacement cost needed
Sub Total - Topsoil	\$0	\$0		
B. Radiation Survey & Soil Analysis				
Sub Total - Survey & Analysis	\$7,102	\$738		
C. Revegetation				
Grading (\$/Acre)	\$59.29	\$59.29		WDEQ-LQD Guideline 12A (Motor grader) 2016
Fertilizer (\$/Ac)	\$202.60	\$202.60		BF Construction (2015) (Tractor/disk)
Seeding Prep & Seeding (\$/Ac)	\$277.60	\$278		BF Construction (2015) seeding prep includes scarification (Tractor/disk)
Mulching & Crimping (\$/Ac)	\$587.60	\$588		BF Construction (2015) seeding prep includes scarification (Mulcher/crimper used)
Sub Total Cost/Acre	\$1,127	\$1,127		
Sub Total Revegetation	\$4,670	\$485		
D. Disposal of Road Material to Landfill				removal of constructed road materials
Excavation, CAT (\$/ft of road)	\$1.82	\$1.82		WDEQ-LQD Guideline 12A (2016)
Feet of Road	2,500	313		
Weight in Tons	1	0.2		
Quantity per Truck Load (Ton)	21.6	21.6		
Excavation Cost	\$4,537.50	\$567.19		
Number of Truckloads	0.1	0.01		Total loads this page: Landfill loads = 0.11, License Facility loads = 0. Partial loads will be combined to make a full load.
Distance (Miles)	150	150		Total Loads worksheets (2a, 2b, 3, 5I, 5II, 5IV, 6 II&III): Landfill = 154, License Facility= 35
Transportation Cost	\$33.42	\$4.18		
Disposal Fee (\$/Ton)	\$4,571	\$571		
Sub Total - Roads	\$16,343	\$1,223		
TOTAL ROADS COST	\$16,343	\$1,223	\$17,566	

**Appendix F - Surety Estimate
First Year of Operation
Nichols Ranch ISR Project
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**Worksheet 6, No. IV & V
TOPSOIL REPLACEMENT & REVEGETATION**

Cost Item	Mining Unit		Sub Total	Notes
	Other			
IV Other				
A. Topsoil Handling & Grading				
Affected Area (Acres)	5.97	0		11e2 Byproduct staging area DDW pads, manifold, silo area
Average Affected Thickness (Inch)	6	6		
Topsoil Volume (Yds ³)	0	0		Topsoil stockpiled onsite no replacement cost needed
Sub Total - Topsoil	\$0	\$0		
Replacement soil (Tons)				
Sub Total - replacement soil	\$0	\$0		
B. Radiation Survey & Soil Analysis				
Unit Cost (\$/Acre)	\$1,714	\$1,714		Based on ERG (2016)
Sub Total - Survey & Analysis	\$10,232.58	\$0		
C. Revegation				
Grading (\$/Acre)	\$ 59.29	\$59.29		WDEQ-LQD Guideline 12a (Motor grader)2016
Fertilizer (\$/Ac)	\$202.60	\$202.60		BF Construction (2015) (Tractor/disk)
Seeding Prep & Seeding (\$/Acre)	\$277.60	\$277.60		BF Construction (2015) seeding prep includes scarification (Tractor/disk)
Mulching & Crimping (\$/Acre)	\$587.60	\$587.60		BF Construction (2015) seeding prep includes scarification (Mulcher/crimper used)
Sub Total Cost/Acre	\$1,127.09	\$1,127.09		
Sub Total Revegation	\$6,729	\$0		
Sub Total - Other	\$16,961	\$0		
TOTAL OTHER COST	\$16,961	\$0	\$16,961	
TOTAL TOPSOIL REPLACEMENT & REVEGETATION COST (Total of 7I through 7V)	\$95,290	\$1,855	\$97,145	

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

Worksheet 7, No. I - VII

MISCELLANEOUS RECLAMATION

Cost Item		Mining Unit		Sub Total	Notes
		Nichols #1	Nichols #2		
I	Fence Removal & Disposal				
	Quantity (Ft)	8,558	2,347		Guideline 12
	Cost of Removal/Disposal (\$)	\$2,918	\$800	\$3,719	
II	Powerline Removal & Disposal				
	Quantity (Ft)	160,460	136,810		Power to Wells, header houses. Other power already in place by CBM companies
	Cost of Removal/Disposal (\$/Ft)	\$0	\$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	\$0	0	
III	Transformer Removal & Disposal				
	Quantity	0	0		Tri-County Electric will remove at no cost, WDEQ Guideline No.12, App. H
	Cost of Removal/Disposal (\$/Each)	0	0		
	Cost of Removal/Disposal (\$)	0	0	0	
IV	Culvert Removal & Disposal				
	Quantity (Ft)	397	190		
	Cost of Removal/Disposal (\$)	\$2,846	\$1,362	\$4,209	
V	Guardrail Removal				
	Quantity (Ft)	0	0		None
	Cost of Removal/Disposal (\$/Ft)	\$0.00	\$0.00		
	Cost of Removal/Disposal (\$)	\$0	0	0	
VI	Low Water Stream Crossing				
	Quantity	0	0		None
	Cost of Removal/Disposal (\$/Each)	\$0	\$0		
	Cost of Removal/Disposal (\$)	\$0	\$0	0	
	TOTAL MISCELLANEOUS COST	\$5,765	\$2,163	\$7,927	

**Appendix F - Surety Estimate
Nichols Ranch ISR Project
Uranerz Energy Corporation**

Master Costs

				Profit &		
Analytical Costs		Rate (\$)	CPI*	Overhead¹	Units	Source
Excursion (UCL) Parameters		\$ 30.00	NA	included	analysis	IML (2016)
Guideline No. 8		\$ 322.00	NA	included	analysis	IML (2016)
DDW Monitoring		\$ 474.00	NA	included	analysis	IML (2016)
Radiation Survey - Ground		\$ 1,714.00	NA	included	acre	ERG (2016)
				Profit &		
Capital Costs		Rate (\$)	CPI*	Overhead¹	Units	Source
Reverse Osmosis Unit (500 gpm)		\$ 500,000	\$542,500	included	each	
				Profit &		
Chemical and Material Costs		Rate (\$)	CPI*	Overhead¹	Units	Source
Antiscalant		\$ 0.609	NA	included	kgal	GE Water & Process Technologies (2016)
Hydrochloric Acid		\$ 0.01	NA	included	kgal	Operating Experience (2016)
Bentonite Chips		\$ 5.30	NA	included	bag	Casper Well
Gravel		\$ 18.00	NA	included	cy	Casper Well
Cement Cone		\$ 6.76	NA	included	each	Casper Well
				Profit &		
Equipment Costs		Rate (\$)	CPI*	Overhead¹	Units	Source
				Profit &		
Utility Costs		Rate (\$)	CPI*	Overhead¹	Units	Source
Electrical		\$ 0.06	NA	included	kWhr	Powder River Energy (2016)
Kilowatt to Horsepower		0.746	NA	included	Kw/HP	
Efficiency - Downhole Pumps		80%	NA	included	percent	
Efficiency - Surface Pumps		90%	NA	included	percent	
Propane - Plant & Office		\$ 3,838.00	NA	included	month	Blakeman Propane (2016)
				Profit &		
Quoted Costs		Rate (\$)	CPI*	Overhead¹	Units	Source
Wellfield Pipeline Removal		\$ 2.60	NA	included	ft - trench	Wind Creek (2014)
Trunk Line Removal		\$ 2.60	NA	included	ft - trench	Wind Creek (2014)
Revegetation Costs-Seed (includes scarification)		\$ 277.60	NA	included	acre	BF Construction (2015)
Revegetation Costs-Mulch		\$ 587.60	NA	included	acre	BF Construction (2015)
Revegetation Costs-Fertilizer		\$ 202.60	NA	included	acre	BF Construction (2015)
Revegetation Costs-Total		\$ 1,067.80	NA	included	acre	BF Construction (2015)
				Profit &		
Waste Transportation & Disposal Costs		Rate (\$)	CPI*	Overhead¹	Units	Source
C&D Debris Transportation		\$ 0.18	NA	included	ton-mile	Contract (2016)
C&D Debris Disposal		\$ 47.00	NA	included	ton	Contract (2016)
11e.(2) Byproduct Material Transportation		\$ 0.14	NA	included	ton-mile	Contract (2016)
11e.(2) Byproduct Material Disposal		\$ 135.00	\$ 146.48	included	ton	Contract (2016)
11e.(2) Byproduct Material Disposal		\$ 150.00	\$ 162.75	included	ton	Contract (2016)
11e.(2) Byproduct Material Unloading		\$ 750.00	\$ 813.75	included	load	Contract (2016)
11e.(2) Byproduct Material Disposal (Type I)		\$ 180.00	\$ 195.30	included	ton	Contract (2016)
11e.(2) Byproduct Material Disposal (Type II)		\$ 180.00	\$ 195.30	included	ton	Contract (2016)
11e.(2) Byproduct Material Disposal - soil		\$ 350.00	\$ 379.75	included	ton	Contract (2016)
Topsoil Haul/Place		\$ 6.43	NA	included	cy	71 Soil & Rock (2015)
				Profit &		
Other		Rate (\$)	CPI*	Overhead¹	Units	Source
Plant Repair and Maintenance		\$ 0.07	NA	\$ 0.08	kgal	Operating Experience (2016)
Wellfield Repair and Maintenance		\$ 0.07	NA	\$ 0.08	kgal	Operating Experience (2016)
DDW Repair and Maintenance		\$ 0.14	NA	\$ 0.16	kgal	Operating Experience (2016)
DDW Plug and Abandonment		\$ 96,416.00	NA	\$ 106,058	well	UIC 10-392 Permit (evaluated during 5 yr review by WQD)
Equipment Decontamination		\$ 3.78	NA	included	ft2	RS Means 2016 Building Construction Costs Data
Equipment Dismantling and Loading		\$ 7.70	NA	included	ft2	RS Means 2016 Building Construction Costs Data
Equipment Oversize Charge		\$ 414.00	\$ 449.19	\$ 458.92	load	
Concrete Decontamination		\$ 1.02	NA	included	ft2	RS Means 2016 Building Construction Costs Data
Well Pump and Tubing Removal		\$ 41.40	NA	\$ 45.54	well	Operating Experience (2016)
Handling spill clean up soil		\$ 202.00	\$ 219.17	\$ 222.20	load	
				Profit &		
Labor Costs		Rate (\$)	CPI*	Benefits	Units	Source
Supervisor		\$ 35.43	NA	\$ 43.10	hour	Building Construction Prevailing Wages (4/3/2017)
Operator		\$ 20.46	NA	\$ 24.61	hour	Building Construction Prevailing Wages (4/3/2017)
Maintenance		\$ 18.21	NA	\$ 20.89	hour	Building Construction Prevailing Wages (4/3/2017)
Laborer		\$ 16.80	NA	\$ 16.38	hour	Building Construction Prevailing Wages (4/3/2017)
				Profit &		
WDEQ/LQD Guideline No. 12 Costs		Rate (\$)	CPI*	Overhead¹	Units	Source
Vehicle Operation	Table D-1	\$ 14.86	NA	\$ 16.35	hour	Guideline (2/2017)
Backhoe w/out Operator (\$/Hr)	Table D-1	\$ 23.12	NA	\$ 25.43		Guideline (2/2017)
Loader (5.25 CY)	Table D-1	\$ 73.32	NA	\$ 80.65	hour	Guideline (2/2017)
Grading Operating Costs	Appendix G	\$ 54.73	NA	\$ 60.20	acre	Guideline (2/2017)
Fencing Removal	Appendix H	\$ 0.31	NA	\$ 0.34	foot	Guideline (2/2017)
Culvert Removal	Appendix J	\$ 7.17	NA	\$ 7.89		Guideline (2/2017)
Culvert Removal	Appendix J	\$ 103.50	NA	\$ 113.85	20 ft CMP	Guideline (2/2017)
Building Demolition - Mixture of Types	Appendix K	\$ 0.289	NA	\$ 0.32	ft3	Guideline (2/2017)
Building Demo Disposal (Average)	Appendix K	\$ 10.10	NA	\$ 11.11	cy	Guideline (2/2017)
Concrete (Floor) Demolition - 6" Thick with Rebar	Appendix K	\$ 0.779	NA	\$ 0.86	ft2	Guideline (2/2017)
Concrete (Footings) Demolition - 2' Thick, 3' Wide	Appendix K	\$ 15.97	NA	\$ 17.57	linear foot	Guideline (2/2017)
Drill Hole Abandonment: Wet Exploration Holes >25 holes	Appendix L	\$ 3.00	NA	\$ 3.30	foot	Guideline (2/2017)
Incidental Costs: Small Site Grading and Seeding (<1000 sq. feet)	Appendix L	\$ 50.00	NA	\$ 55.00	site	Guideline (2/2017)
Incidental Costs: Location Fee	Appendix L	\$ 10.00	NA		hole	Guideline (2/2017)
Incidental Costs: Mobilization	Appendix L	\$ 1,000.00	NA	\$ 1,100.00	project	Guideline (2/2017)
Topsoil Respread (Cat 627)	Section 2	\$ 0.67	NA	\$ 0.74	cy	Guideline 12A
Grading (Motor Grader)	Section 2	\$ 53.90	NA	\$ 59.29	acre	Guideline 12A
Excavation (Cat)	Section 2	\$ 1.65	NA	\$ 1.82	ft	Guideline 12A

¹ Per WDEQ/LQD Guideline 12, Section II(B)(12)(b)

***US DEPT. of CONSUMER PRICE INDEX ADJUSTMENT 2013 to 2017**

0.05%

Consumer Price Index Multiplier (2013 to 2016)

1.0850