



Uranerz Energy Corporation
(an Energy Fuels Company)
1701 East "E" Street
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April 27, 2016

Department of Environmental Quality – Land Quality Division
District III Supervisor
2100 West 5th Street
Sheridan, WY 82801

Attn: Document Control Desk
Director
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Attn: Deputy Director
Division of Decommissioning, Uranium Recovery and Waste Programs
U.S. Nuclear Regulatory Commission
11545 Rockville Pike, Mail Stop T-8F5
Rockville, MD 20852-2738

Re: Uranerz Energy Corporation Nichols Ranch ISR Project, WDEQ-LQD Permit to Mine No. 778 and NRC SUA-1597 Quarterly Report

Dear Mr. Rogaczewski and Mr. Persinko,

Pursuant to the Permit to Mine No. 778 and SUA-1597 License Condition 11.1, quarterly reporting is required. A comparison of quarterly reporting requirements between Wyoming Department of Environmental Quality – Land Quality Division (WDEQ-LQD) permit and the NRC License SUA-1597 shows similar reporting requirements. Uranerz has therefore, in an effort to reduce redundant reporting and our environmental footprint with duplicate paper copies, combined the WDEQ-LQD quarterly report with the NRC License SUA-1597 quarterly report. It is worth noting that the report format more closely follows the WDEQ-LQD Chapter 11 Section 15 requirement list.

If you have any questions regarding the provided information, please contact John McCarthy 307-265-8900 or by email at jmccarthy@energyfuels.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'W. P. Goranson', with a long horizontal flourish extending to the right.

William P. Goranson
Executive Vice President ISR Operations
Uranerz Energy Corporation (an Energy Fuels company)

NM5520



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WG/th

Attachments

1st Quarter 2016 Report

cc: Dorran Larner, Project Manager, WDEQ-LQD (via email)

Ron Linton, Project Manager, NRC (via email)

Linda Gersey, Lead Inspector, NRC (via email)



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1st Quarter 2016 Report

Nichols Ranch ISR Project

WDEQ-LQD Permit to Mine No. 778

And

NRC License SUA-1597



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1.0 Introduction

Uranerz Energy Corporation (Uranerz) received its Wyoming Department of Environmental Quality – Land Quality Division (WDEQ-LQD) Permit to Mine No. 778 on December 29, 2010. On July 19, 2011 Source Material License SUA-1597 was issued to Uranerz by the Nuclear Regulatory Commission (NRC). Quarterly reports are required by WDEQ-LQD Non-Coal Rules and Regulations Chapter 11, Section 15 and NRC License SUA-1597 Condition 11.1.

The following highlights Uranerz activities during the quarter:

Nichols Ranch Unit

- Production continues in Production Area #1 (PA#1) in header houses 1 through 7, with the addition of header house 7 during the quarter.
- Temporary surface reclamation of header house 7 was completed. The road to header house 7 has not been completed.
- Wellfield development occurred during the quarter in header house 8. Well completion details are available at the mine site and are provided in the annual report to the WDEQ-LQD.
- Production Area #2 (PA#2) baseline sampling continued during the quarter.
- Delineation drilling in header house 9 area (PA#2) was completed in March. A separate report is prepared and submitted to LQD for delineation.
- A pump test plan for PA#2 was submitted to, and approved by the WDEQ-LQD. The pump test was initiated in March. Baseline sampling of the monitor wells in PA#2 were collected during the period. Once the hydrologic data is prepared and the baseline sampling results compiled, the Hydrologic Test Document will be submitted to the WDEQ-LQD for review and comment with a copy to the NRC for review.
- A Central Process Plant (CPP) build-out for the processing circuit was completed during 1st quarter 2016. Uranerz was approved for all production circuits (IX exchange, elution, and drying packaging) with the issuance of NRC License SUA-1597 and WDEQ permit to mine 778. The processing circuit constructed enables Uranerz to elute resin and precipitate a di-uranyl peroxide material (yellowcake slurry) which is, at this time, shipped to White Mesa for final drying and packaging. Prior to start-up, the NRC completed a pre-operational inspection in January 2016 and approved commencement of the processing circuit in early February.

Hank Unit

- No activities took place at the Hank Unit.



2.0 Monitoring

2.1 Injection Fluid Characteristics

A typical lixiviant solution is provided in Table 3c of the WDEQ-LQD Mine Plan with representative concentration ranges that could be found in the lixiviant. If changes occur to the ranges, Uranerz committed to updating the table in the annual report. Additionally, WDEQ-LQD Chapter 11, Section 14(a)(ii)(A) Non Coal Rules and Regulations requires that the nature of the injection fluids be monitored at least monthly to yield representative data on the characteristics of the fluid and Section 15(b)(i) requires that it is reported in the Quarterly Reports.

Table 1 depicts the injection fluid composition for January, February, and March 2016 based on a grab sample collected each month and submitted to a third party laboratory for analysis. A comparison of monthly composition results to those in Table 3c show that all analytical results were within or below the values presented in Table 3c of the Mine Plan.

Table 1: Injection Fluid Composition				
Parameter	Value Range	January 2016	February 2016	March 2016
Calcium (mg/L)	20-500	127	142	125
Chloride (mg/L)	200-5000	84	90	118
Carbonate as CO ₃ (mg/L)	1-2500	Not Detected	Not Detected	Not Detected
Bicarbonate as HCO ₃ (mg/L)	400-5000	1460	1660	1430
Potassium (mg/L)	15-300	10	11	10
Magnesium (mg/L)	3-100	17	19	15
Manganese (mg/L)	0.01-50	0.08	0.11	0.10
Sodium (mg/L)	400-6000	577	771	622
Sulfate (mg/L)	400-5000	447	482	422
TDS @ 180 (mg/L)	1500-12000	2150	2280	2000
U ₃ O ₈ (mg/L)	0.01-500	0.36	0.74	0.69
V ₂ O ₅ (mg/L)	0.01-100	0.67	1.04	1.10

2.2 Injection Pressure and Flow Volumes (Class III Wells)

According to WDEQ-LQD Chapter 11 Section 14(a)(ii)(B) the injection pressure and either flow rate or volume is to be monitored at least weekly. Chapter 11, Section 14(a)(ii)(C) allows monitoring to be performed at the header house manifold. Uranerz monitors injection pressure and flow rates by header house. At this time, operations are occurring in PA#1, header houses 1 through 7.



Table 2 is a tabulation of the maximum weekly injection pressures. The Uranerz system continuously records injection pressure via electronic instrumentation at the header houses. Readings are recorded by the millisecond. Per the NRC Source Material License SUA-1597, License Condition 11.1(C), the readings are kept on site and are available for inspection upon request. The maximum pressure for Nichols Ranch is 150 psi. There were no exceedances of the maximum pressure.

Table 2: Weekly Maximum Injection Pressure							
Week Ending	Header House 1	Header House 2	Header House 3	Header House 4	Header House 5	Header House 6	Header House 7
1/3/2016	138	137	142	115	108	136	Not in production
1/10/2016	144	145	146	119	88	136	Not in production
1/17/2016	142	142	143	118	105	138	Not in production
1/24/2016	145	142	145	120	96	135	Not in production
1/31/2016	144	140	144	117	90	137	Not in production
2/7/2016	142	142	145	120	122	137	Not in production
2/14/2016	145	144	138	120	108	135	Not in production
2/21/2016	146	146	145	123	115	139	Not in production
2/28/2016	146	145	140	123	117	142	Not in production
3/6/2016	133	135	142	119	120	140	Not in production
3/13/2016	142	145	140	123	122	134	113
3/20/2016	145	145	146	130	125	140	79
3/27/2016	141	146	144	128	117	133	83

Flow rates are also continuously recorded via electronic instrumentation at the header houses. Table 3 is a tabulation of the recovery (aka production), injection, and wellfield bleed flow volumes for the quarter. Per section 3.10.1 of the WDEQ-LQD Mine Plan and Section 3.2.3.3 of the NRC Technical Report, the approximate average of 0.5 to 1.5% is the bleed rate for Nichols Ranch needed to maintain the inward gradient. The average bleed rate for the period was 0.7%.



Table 3: Wellfield Weekly Flow Volumes

Production Area #1				
Week Ending	Recovery (gallons)	Injection (gallons)	Wellfield Bleed (gallons)	% Bleed
1/3/2016	20,533,250	20,341,950	191,300	0.9%
1/10/2016	19,640,400	19,476,050	164,350	0.8%
1/17/2016	19,917,650	19,752,600	165,050	0.8%
1/24/2016	19,613,650	19,435,900	177,750	0.9%
1/31/2016	19,703,900	19,518,400	185,500	0.9%
2/7/2016	19,786,900	19,610,500	176,400	0.9%
2/14/2016	19,548,300	19,384,150	164,150	0.8%
2/21/2016	19,555,800	19,434,050	121,750	0.6%
2/28/2016	19,218,450	19,104,050	114,400	0.6%
3/6/2016	18,447,850	18,353,250	94,600	0.5%
3/13/2016	21,265,700	21,146,000	119,700	0.6%
3/20/2016	23,278,800	23,156,550	122,250	0.5%
3/27/2016	19,374,450	19,258,400	116,050	0.6%
Totals	259,885,100	257,971,850	1,913,250	0.7%

2.3 Monitor Well Sampling Results

Monitor well sampling is performed during operation to detect and correct conditions leading to a potential excursion. Monitor well sampling and analysis is performed according to the WDEQ-LQD Mine Plan, Volume VIII, Section 3.14.7.8.10 and the NRC License Condition 11.5. The monitor wells in producing wellfields are sampled twice a month, at least 10 days between each sampling event, for water levels and the Upper Control Limit (UCL) parameters; chloride, conductivity, and alkalinity. Monitor well sampling in PA#1 continued during the period. All ring, overlying and underlying monitor wells were sampled. Results for each well have been tabulated and are enclosed in Appendix A.

The overlying monitor well MON-11 continues to show increased conductivity values during the first quarter of 2016. WDEQ-LQD expressed concern for MON-11 in a letter dated February 17, 2016. A discussion of MON-11 was held between WDEQ-LQD and Uranerz staff at the WDEQ District 3 office, March 15, 2016. Subsequent to that meeting, Uranerz sent a formal response under cover letter dated April 6, 2016. Uranerz has been monitoring the continued increase in MON-11 since production began in April, 2014 and have taken a proactive approach in trying to mitigate the increase. Uranerz believes this is a naturally occurring anomaly and will continue to closely observe the conductivity levels through routine monitoring of the well.



Monitor ring wells (MRN) located throughout PA#1 show fluctuations in water levels as would be expected in an active production area. These fluctuations are attributed to the start-up of header house 7 and the subsequent balancing of water flow throughout the production area in order to maintain the required inward hydraulic gradient according to NRC License SUA-1597 Condition 10.9 and the WDEQ-LQD Mine Plan.

2.3.1 Excursion Status

Based on the monitor well water quality reports and analysis, there were no potential excursions which required reporting during the quarter.

3.0 Mechanical Integrity Testing

The WDEQ-LQD Permit to Mine No. 778 requires mechanical integrity test (MIT) results, for wells, to be reported quarterly. NRC License Condition 11.1B requires a summary of MIT results semi-annually; however, the MIT information remains the same regardless of the reporting timeframe. Uranerz will therefore report the results quarterly to both agencies. The MIT procedure is followed pursuant to Section 3.6 of WDEQ-LQD Mine Plan, Volume VIII and NRC License Application Volume I, Section 3.4. Results of the MITs are maintained on site and include the signature of the individual responsible for conducting the test.

One hundred six (106) Class III wells and One (1) monitor well were tested for mechanical integrity during the report period and the MIT results are attached in Table 4. Wells tested with a pressure at or below 10% in a 10-minute timeframe have passed the MIT. One well failed MIT, DB-071, and was plugged and abandoned during the 1st quarter. Well abandonment is discussed in the next section.

The format of column designations in Table 4 was established based on WDEQ-LQD criteria. The first column is a simple line designation for ease in review.

4.0 Defective Wells, Well Repair and Plugging

Per Chapter 11, Section 8(c), a well lacking mechanical integrity must be plugged if it cannot be repaired. Chapter 11, Section 15(b)(iii) requires the status of defective wells be reported quarterly. Table 5 lists the status of defective wells having failed MIT. Well DB-071 failed MIT and was plugged and abandoned during the 1st quarter.

Plugging and abandonment of wells is performed in accordance with Permit to Mine No. 778, Volume VIII, Mine Plan Section 3.8, and in accordance with Wyoming Statute 35-11-404 (described in NRC License Application Volume I Section 6.1). Well abandonment reports will be submitted in the WDEQ-LQD Annual Report as required by Permit to Mine No. 778.



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5.0 Certification

Certification is required by WDEQ-LQD Non-Coal Rules and Regulations Chapter 11, Section 2(g). 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 gather 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.

A handwritten signature in black ink, appearing to read 'William P. Goranson', written over a horizontal line.

William P. Goranson
Executive Vice President ISR Operations
Uranerz Energy Corporation (an Energy Fuels Company)

Table 4: Mechanical Integrity Tests
WDEQ - Quarterly Report/1st QTR 2016
MITs for Nichols Ranch Production



#	Well Name	Date Tested	Casing Type	Bottom Casing (top of completion ft)	Lower Packer Depth (feet)	Initial Pressure (psi)	Final Pressure (psi)	Pressure Loss (net)	Next Test Date	Pass-Fail
1	DI073	01/02/2016	PVC	519	500	180	175	5	01/02/2021	PASS
2	DJ073	01/02/2016	PVC	481	460	180	170	10	01/02/2021	PASS
3	DK072	01/02/2016	PVC	498	480	180	170	10	01/02/2021	PASS
4	DN074	01/02/2016	PVC	502	480	180	171	9	01/02/2021	PASS
5	DP076	01/02/2016	PVC	516	490	180	165	15	01/02/2021	PASS
6	DD067	01/04/2016	PVC	501	480	180	176	4	01/04/2021	PASS
7	DD074	01/04/2016	PVC	504	480	180	164	16	01/04/2021	PASS
8	DD075	01/04/2016	PVC	503	480	180	166	14	01/04/2021	PASS
9	DG070B	01/04/2016	PVC	494	470	180	168	12	01/04/2021	PASS
10	DH075	01/04/2016	PVC	520	500	180	163	17	01/04/2021	PASS
11	DF073	01/05/2016	PVC	500	480	180	168	12	01/05/2021	PASS
12	DG072	01/05/2016	PVC	499	480	180	167	13	01/05/2021	PASS
13	DI075	01/05/2016	PVC	521	500	180	170	10	01/05/2021	PASS
14	DE072B	01/06/2016	PVC	510	480	180	163	17	01/06/2021	PASS
15	DB058	01/07/2016	PVC	508	490	180	165	15	01/07/2021	PASS
16	DB059	01/07/2016	PVC	502	480	180	164	16	01/07/2021	PASS
17	DB072	01/07/2016	PVC	525	500	180	169	11	01/07/2021	PASS
18	DE070	01/07/2016	PVC	496	480	180	164	16	01/07/2021	PASS
19	DC072	01/08/2016	PVC	520	500	180	170	10	01/08/2021	PASS
20	DC074	01/08/2016	PVC	513	490	180	172	8	01/08/2021	PASS
21	DF074	01/09/2016	PVC	516	500	180	173	7	01/09/2021	PASS
22	DF075	01/09/2016	PVC	521	500	180	174	6	01/09/2021	PASS
23	DG074	01/09/2016	PVC	526	510	180	164	16	01/09/2021	PASS
24	DG077	01/09/2016	PVC	519	500	180	171	9	01/09/2021	PASS
25	DJ074	01/10/2016	PVC	526	510	180	173	7	01/10/2021	PASS
26	DJ075	01/10/2016	PVC	517	500	180	163	17	01/10/2021	PASS
27	DJ076	01/10/2016	PVC	528	510	180	168	12	01/10/2021	PASS

Table 4: Mechanical Integrity Tests
WDEQ - Quarterly Report/1st QTR 2016
MITs for Nichols Ranch Production



#	Well Name	Date Tested	Casing Type	Bottom Casing (top of completion ft)	Lower Packer Depth (feet)	Initial Pressure (psi)	Final Pressure (psi)	Pressure Loss (net)	Next Test Date	Pass-Fail
28	DH079	01/11/2016	PVC	525	500	180	172	8	01/11/2021	PASS
29	DJ077	01/11/2016	PVC	533	510	180	163	17	01/11/2021	PASS
30	DJ078	01/11/2016	PVC	533	510	180	171	9	01/11/2021	PASS
31	DK079	01/11/2016	PVC	522	500	180	167	13	01/11/2021	PASS
32	DD069	01/12/2016	PVC	500	480	180	167	13	01/12/2021	PASS
33	DH072	01/12/2016	PVC	507	480	180	168	12	01/12/2021	PASS
34	DH073	01/12/2016	PVC	506	480	180	165	15	01/12/2021	PASS
35	DH076	01/12/2016	PVC	527	510	180	165	15	01/12/2021	PASS
36	DI077	01/12/2016	PVC	530	510	180	166	14	01/12/2021	PASS
37	DL078	01/13/2016	PVC	526	510	180	173	7	01/13/2021	PASS
38	N1H-003	01/13/2016	PVC	515	490	180	163	17	01/13/2021	PASS
39	N1H-006	01/13/2016	PVC	529	510	180	165	15	01/13/2021	PASS
40	DC069	01/21/2016	PVC	506	480	180	170	10	01/21/2021	PASS
41	DB071	01/23/2016	PVC	527	450	180	161	19	01/23/2021	FAIL
42	DM061	01/23/2016	PVC	542	520	180	165	15	01/23/2021	PASS
43	DL076	01/25/2016	PVC	520	500	180	163	17	01/25/2021	PASS
44	DN080	01/25/2016	PVC	542	520	180	167	13	01/25/2021	PASS
45	DP078	01/25/2016	PVC	517	500	180	171	9	01/25/2021	PASS
46	DM077	01/26/2016	PVC	531	510	180	168	12	01/26/2021	PASS
47	DQ077	01/26/2016	PVC	518	500	180	168	12	01/26/2021	PASS
48	DR077	01/26/2016	PVC	517	500	180	169	11	01/26/2021	PASS
49	DR078	01/26/2016	PVC	504	480	180	172	8	01/26/2021	PASS
50	DQ079	01/27/2016	PVC	505	480	180	165	15	01/27/2021	PASS
51	DS079	01/27/2016	PVC	497	480	180	167	13	01/27/2021	PASS
52	DL074	01/28/2016	PVC	537	510	180	171	9	01/28/2021	PASS
53	DM084	01/28/2016	PVC	580	560	180	174	6	01/28/2021	PASS
54	DN083	01/28/2016	PVC	573	550	180	167	13	01/28/2021	PASS

Table 4: Mechanical Integrity Tests
WDEQ - Quarterly Report/1st QTR 2016
MITs for Nichols Ranch Production



#	Well Name	Date Tested	Casing Type	Bottom Casing (top of completion ft)	Lower Packer Depth (feet)	Initial Pressure (psi)	Final Pressure (psi)	Pressure Loss (net)	Next Test Date	Pass-Fail
55	DN084	01/29/2016	PVC	573	550	180	167	13	01/29/2021	PASS
56	DN086	01/29/2016	PVC	561	540	180	173	7	01/29/2021	PASS
57	DO084B	01/29/2016	PVC	561	540	180	170	10	01/29/2021	PASS
58	DO087	01/29/2016	PVC	555	530	180	170	10	01/29/2021	PASS
59	DP085	01/29/2016	PVC	555	530	180	169	11	01/29/2021	PASS
60	DS081	02/03/2016	PVC	492	470	180	167	13	02/03/2021	PASS
61	DT080	02/03/2016	PVC	494	470	180	172	8	02/03/2021	PASS
62	DN081	02/05/2016	PVC	541	520	180	166	14	02/05/2021	PASS
63	DN082	02/05/2016	PVC	541	520	180	170	10	02/05/2021	PASS
64	DO083	02/05/2016	PVC	531	510	180	163	17	02/05/2021	PASS
65	DQ086	02/09/2016	PVC	541	520	180	169	11	02/09/2021	PASS
66	DQ086B	02/09/2016	PVC	518	500	180	175	5	02/09/2021	PASS
67	DP082	02/10/2016	PVC	530	510	180	173	7	02/10/2021	PASS
68	DP084B	02/11/2016	PVC	525	500	180	175	5	02/11/2021	PASS
69	DP085B	02/11/2016	PVC	522	500	180	170	10	02/11/2021	PASS
70	DR085	02/11/2016	PVC	518	500	180	172	8	02/11/2021	PASS
71	DB071C	02/15/2016	PVC	527	510	180	171	9	02/15/2021	PASS
72	DF071	02/15/2016	PVC	491	470	180	175	5	02/15/2021	PASS
73	DF072	02/15/2016	PVC	493	470	180	173	7	02/15/2021	PASS
74	MPN-10	02/16/2016	PVC	499	470	180	165	15	02/16/2021	PASS
75	MPN-11	02/16/2016	PVC	562	540	180	166	14	02/16/2021	PASS
76	MUN-10	02/16/2016	PVC	509	480	180	164	16	02/16/2021	PASS
77	MUN-16	03/02/2016	PVC	692	680	180	166	14	03/02/2021	PASS
78	DO084	03/03/2016	PVC	529	470	180	164	16	03/03/2021	PASS
79	DS088	03/08/2016	PVC	526	510	200	192	8	03/08/2021	PASS
80	DS090	03/08/2016	PVC	520	500	200	194	6	03/08/2021	PASS
81	DT087	03/08/2016	PVC	498	480	200	192	8	03/08/2021	PASS

Table 4: Mechanical Integrity Tests
WDEQ - Quarterly Report/1st QTR 2016
MITs for Nichols Ranch Production



#	Well Name	Date Tested	Casing Type	Bottom Casing (top of completion ft)	Lower Packer Depth (feet)	Initial Pressure (psi)	Final Pressure (psi)	Pressure Loss (net)	Next Test Date	Pass-Fail
82	DT089	03/08/2016	PVC	520	500	200	190	10	03/08/2021	PASS
83	DT090	03/08/2016	PVC	498	480	200	187	13	03/08/2021	PASS
84	DU088B	03/08/2016	PVC	481	460	200	194	6	03/08/2021	PASS
85	DS092	03/09/2016	PVC	525	500	200	191	9	03/09/2021	PASS
86	DT091	03/09/2016	PVC	516	500	200	191	9	03/09/2021	PASS
87	MON-11	03/10/2016	PVC	304	290	200	193	7	03/10/2021	PASS
88	DT081	03/14/2016	PVC	489	470	200	190	10	03/14/2021	PASS
89	DT088	03/14/2016	PVC	493	470	200	193	7	03/14/2021	PASS
90	DU082	03/14/2016	PVC	489	470	200	185	15	03/14/2021	PASS
91	DU088	03/14/2016	PVC	497	480	200	190	10	03/14/2021	PASS
92	MUN-12	03/15/2016	PVC	479	460	200	184	16	03/15/2021	PASS
93	N1H-001	03/15/2016	PVC	487	460	200	187	13	03/15/2021	PASS
94	DR088	03/16/2016	PVC	513	490	200	194	6	03/16/2021	PASS
95	N1G-008	03/16/2016	PVC	556	540	190	180	10	03/16/2021	PASS
96	N1G-009	03/16/2016	PVC	512	490	200	187	13	03/16/2021	PASS
97	N1G-004	03/21/2016	PVC	552	530	190	175	15	03/21/2021	PASS
98	N1H-004	03/21/2016	PVC	491	470	190	172	18	03/21/2021	PASS
99	DQ087	03/22/2016	PVC	551	530	190	175	15	03/22/2021	PASS
100	N1G-007	03/23/2016	PVC	550	530	190	184	6	03/23/2021	PASS
101	N1G-005	03/24/2016	PVC	482	460	190	177	13	03/24/2021	PASS
102	DW085	03/28/2016	PVC	474	450	190	178	12	03/28/2021	PASS
103	DW087	03/28/2016	PVC	473	450	190	185	5	03/28/2021	PASS
104	DX085	03/28/2016	PVC	474	450	190	178	12	03/28/2021	PASS
105	DX087	03/28/2016	PVC	471	450	190	176	14	03/28/2021	PASS
106	DU090	03/29/2016	PVC	494	460	190	182	8	03/29/2021	PASS
107	DU090B	03/29/2016	PVC	481	460	190	186	4	03/29/2021	PASS

Table 5: Defective Well Status
Nichols Ranch ISR Project - 1st Quarter 2016
MIT - Well Status



#	Well Name	Date Tested	Well Status	Cemented/Repair Date	Well Depth (Feet)	Well Diameter (Inches)	Casing Volume (Gallons)	Cement Volume (Gallons)
1	DB071	01/23/2016	Abandoned	03/03/2016	577	5	565	458



Appendix A

Production Area 1 Well ID MON-01		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		

Date

01/07/2016	7	529	115	8.3	4,642.9
01/25/2016	7	541	115	7.9	4,640.9
02/08/2016	7	565	116	8.3	4,639.9
02/22/2016	7	570	113	8.3	4,640.9
03/07/2016	7	519	117	8.3	4,640.9
03/24/2016	8	525	117	8.3	4,639.9

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-02		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		

<u>Date</u>					
01/07/2016	7	532	114	8.6	4,645.4
01/25/2016	7	540	115	8.2	4,643.4
02/09/2016	6	556	114	8.4	4,649.4
02/23/2016	7	544	113	8.4	4,644.4
03/08/2016	7	535	113	8.3	4,643.4
03/24/2016	7	522	116	8.4	4,643.4

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-03		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		

Date

01/11/2016	6	553	115	8.0	4,649.4
01/25/2016	7	543	115	8.1	4,646.4
02/09/2016	6	558	114	8.3	4,647.4
02/23/2016	6	546	113	8.3	4,648.4
03/08/2016	7	537	114	8.3	4,646.4
03/24/2016	7	526	116	8.3	4,646.4

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-04		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		

Date

01/11/2016	7	533	114	8.2	4,654.5
01/26/2016	7	510	115	8.2	4,657.5
02/09/2016	7	532	113	8.6	4,651.5
02/23/2016	7	521	112	8.6	4,652.5
03/08/2016	7	513	113	8.6	4,651.5
03/29/2016	8	525	114	8.6	4,651.5

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-05		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		

Date

01/11/2016	6	576	113	8.6	4,655.8
01/26/2016	7	550	113	8.6	4,657.8
02/10/2016	7	569	112	9.0	4,653.8
02/23/2016	6	557	112	8.9	4,654.8
03/09/2016	7	551	112	8.9	4,653.8
03/29/2016	8	537	112	8.5	4,652.8

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-06		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		

Date

01/12/2016	6	575	113	8.1	4,657.4
01/26/2016	7	543	115	8.2	4,654.4
02/10/2016	7	566	114	8.5	4,655.4
02/24/2016	7	547	113	8.5	4,655.4
03/09/2016	7	532	113	8.6	4,654.4
03/29/2016	8	554	114	8.1	4,654.4

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-07		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		

Date

01/12/2016	6	579	113	8.3	4,655.1
01/27/2016	7	550	114	8.4	4,657.1
02/10/2016	7	572	113	8.2	4,652.1
02/24/2016	7	575	113	8.6	4,654.1
03/09/2016	7	546	112	8.6	4,652.1
03/28/2016	8	569	113	8.2	4,652.1

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-08		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		

Date

01/12/2016	7	580	113	8.3	4,658.7
01/26/2016	7	550	113	8.3	4,656.7
02/09/2016	7	587	114	8.4	4,658.7
02/23/2016	7	514	111	8.3	4,658.7
03/09/2016	6	549	111	8.3	4,658.7
03/24/2016	8	527	115	8.2	4,658.7

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-09		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		

Date

01/12/2016	6	578	115	8.0	4,661.5
01/28/2016	7	578	114	7.9	4,658.5
02/10/2016	7	569	114	8.1	4,661.5
02/23/2016	7	559	113	8.0	4,660.5
03/08/2016	6	546	114	8.0	4,660.5
03/24/2016	7	544	118	7.9	4,660.5

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-10		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		

Date

01/11/2016	6	587	112	8.1	4,663.3
01/27/2016	7	566	112	8.0	4,663.3
02/08/2016	7	599	111	8.1	4,663.3
02/22/2016	7	606	109	8.0	4,663.3
03/08/2016	7	549	110	8.0	4,662.3
03/22/2016	7	544	109	7.8	4,663.3

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-11		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		

Date

01/11/2016	6	857 *	102	7.9	4,666.8
01/28/2016	6	906 *	101	7.9	4,665.8
02/10/2016	6	867 *	102	8.0	4,665.8
02/22/2016	6	892 *	101	7.8	4,665.8
03/08/2016	6	825 *	101	8.0	4,664.8
03/28/2016	7	852 *	103	7.7	4,663.8

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-12		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		

<u>Date</u>					
01/06/2016	6	654	108	7.9	4,666.7
01/21/2016	7	617	108	7.9	4,666.1
02/08/2016	7	678	110	8.0	4,666.7
02/23/2016	7	655	107	7.9	4,665.7
03/08/2016	7	649	107	8.0	4,664.7
03/28/2016	8	666	109	7.8	4,665.7

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-13		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	733	145		
<u>Date</u>					
01/11/2016	7	616	112	8.0	4,666.1
01/26/2016	7	601	112	7.9	4,666.3
02/08/2016	7	643	112	8.1	4,667.1
02/22/2016	7	649	110	7.9	4,667.1
03/08/2016	6	609	110	8.0	4,664.1
03/22/2016	7	587	111	7.8	4,664.1

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-01		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/04/2016	7	557	116	8.6	4,565.0
01/19/2016	7	541	115	8.2	4,559.0
02/01/2016	7	562	116	8.5	4,564.0
02/16/2016	7	561	115	8.6	4,567.0
03/01/2016	7	564	116	8.5	4,574.0
03/21/2016	7	547	114	8.6	4,571.0

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-02-2		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/04/2016	7	571	114	8.4	4,603.8
01/19/2016	8	555	114	8.1	4,598.8
02/01/2016	7	579	115	8.5	4,606.8
02/18/2016	8	578	116	8.2	4,602.8
03/01/2016	8	577	114	8.5	4,614.8
03/22/2016	8	568	114	8.4	4,613.8

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-03-2		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/04/2016	7	567	109	8.7	4,611.6
01/19/2016	7	552	109	8.3	4,600.6
02/03/2016	8	564	107	8.6	4,608.6
02/16/2016	8	568	107	8.6	4,605.6
03/01/2016	8	564	109	8.6	4,614.6
03/22/2016	9	563	106	8.6	4,616.6

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-04		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/05/2016	7	576	114	8.6	4,604.3
01/20/2016	7	575	112	8.1	4,604.3
02/03/2016	7	581	114	8.6	4,606.3
02/16/2016	7	580	113	8.5	4,605.3
03/01/2016	7	582	114	8.5	4,607.3
03/22/2016	7	578	110	8.5	4,618.3

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-05		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/04/2016	7	573	110	8.7	4,589.6
01/19/2016	8	571	112	8.2	4,602.6
02/03/2016	7	577	113	8.5	4,601.6
02/16/2016	7	582	112	8.6	4,599.6
03/01/2016	8	583	114	8.6	4,591.6
03/22/2016	8	580	109	8.6	4,608.6

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-06		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/04/2016	7	588	110	8.5	4,607.6
01/19/2016	8	578	109	8.2	4,601.6
02/03/2016	8	582	109	8.6	4,596.6
02/16/2016	8	591	109	8.6	4,602.6
03/02/2016	8	562	110	8.5	4,595.6
03/15/2016	8	540	107	8.2	4,559.6

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-07		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/05/2016	8	585	105	8.6	4,607.4
01/20/2016	8	586	103	8.1	4,598.4
02/03/2016	8	591	104	8.5	4,593.4
02/16/2016	8	589	104	8.6	4,597.4
03/02/2016	8	566	106	8.5	4,598.4
03/15/2016	8	547	105	8.3	4,567.4

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-08		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/04/2016	7	584	107	8.5	4,582.5
01/18/2016	7	599	111	8.5	4,592.0
02/01/2016	7	596	112	8.1	4,578.3
02/16/2016	7	585	111	8.3	4,582.0
03/01/2016	8	595	114	8.1	4,591.0
03/14/2016	7	589	113	8.1	4,574.0

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-09		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/04/2016	7	589	115	8.1	4,582.8
01/18/2016	7	602	114	8.5	4,596.8
02/01/2016	7	599	114	8.2	4,589.8
02/16/2016	7	592	114	8.2	4,590.8
03/02/2016	8	568	116	8.1	4,598.8
03/14/2016	7	589	116	8.1	4,595.8

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-10		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

<u>Date</u>					
01/04/2016	7	586	113	8.0	4,594.4
01/18/2016	7	601	112	8.4	4,604.4
02/04/2016	7	565	113	8.1	4,609.4
02/16/2016	7	590	113	8.1	4,604.4
03/02/2016	8	566	114	8.1	4,608.9
03/14/2016	7	585	111	8.2	4,622.4

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-11		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

<u>Date</u>					
01/04/2016	7	586	107	8.3	4,607.3
01/18/2016	8	600	107	8.4	4,614.3
02/03/2016	7	587	107	8.1	4,615.9
02/16/2016	8	591	106	8.2	4,613.3
03/02/2016	8	565	108	8.1	4,616.3
03/15/2016	8	556	105	8.1	4,639.3

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-12		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		
<u>Date</u>					
01/04/2016	7	584	115	8.1	4,616.9
01/18/2016	7	598	116	8.4	4,621.9
02/10/2016	7	591	115	8.1	4,622.9
02/22/2016	7	610	113	8.1	4,621.9
03/07/2016	7	560	114	8.1	4,632.9
03/22/2016	8	590	110	8.1	4,610.9

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-13		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/04/2016	7	588	120	8.0	4,625.3
01/19/2016	6	562	119	8.4	4,628.7
02/03/2016	7	589	119	8.0	4,631.1
02/16/2016	7	596	119	8.1	4,630.3
03/02/2016	7	569	121	8.1	4,630.3
03/14/2016	7	589	119	8.0	4,666.3

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-14		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/05/2016	7	564	119	8.4	4,631.0
01/19/2016	7	589	119	8.5	4,633.7
02/03/2016	7	593	119	8.1	4,636.0
02/16/2016	7	599	118	8.1	4,636.0
03/02/2016	7	574	120	8.2	4,635.0
03/15/2016	7	560	120	8.2	4,663.0

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-15		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

<u>Date</u>					
01/05/2016	5	578	123	8.1	4,635.8
01/19/2016	7	576	123	8.4	4,637.6
02/03/2016	6	579	122	8.1	4,640.1
02/24/2016	7	587	121	8.0	4,639.1
03/07/2016	6	557	125	8.1	4,642.1
03/22/2016	7	589	121	8.0	4,649.1

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-16		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/05/2016	6	570	121	8.0	4,641.9
01/26/2016	7	560	121	7.9	4,643.9
02/08/2016	6	596	121	8.1	4,644.9
02/22/2016	7	609	122	8.0	4,643.9
03/07/2016	7	548	123	8.0	4,645.9
03/22/2016	6	582	120	7.8	4,651.9

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-17		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/05/2016	7	551	123	8.0	4,642.0
01/19/2016	7	550	122	8.4	4,642.9
02/04/2016	6	542	120	7.9	4,644.5
02/18/2016	7	560	122	8.3	4,644.5
03/02/2016	7	542	123	8.1	4,644.5
03/14/2016	7	557	123	8.3	4,663.5

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-18-1		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/05/2016	7	558	119	8.0	4,635.7
01/20/2016	7	539	119	8.1	4,636.7
02/04/2016	7	545	117	7.9	4,638.7
02/17/2016	7	563	118	8.1	4,638.7
03/02/2016	7	538	120	8.0	4,638.7
03/14/2016	6	557	121	8.3	4,659.7

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-20-1		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/07/2016	6	523	117	8.3	4,630.4
01/20/2016	7	545	120	8.1	4,632.6
02/04/2016	6	539	118	8.1	4,634.4
02/18/2016	7	558	120	8.4	4,634.4
03/03/2016	7	533	121	8.1	4,633.4
03/14/2016	7	547	124	8.5	4,662.4

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-21		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

<u>Date</u>					
01/06/2016	6	545	118	8.2	4,626.9
01/21/2016	7	539	118	8.0	4,628.7
02/08/2016	7	568	119	8.2	4,631.7
02/23/2016	6	553	116	8.0	4,629.9
03/08/2016	6	543	118	8.1	4,634.9
03/28/2016	8	550	117	7.9	4,622.9

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-22		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/07/2016	7	527	115	8.2	4,618.6
01/20/2016	7	540	116	8.1	4,622.7
02/04/2016	6	532	116	8.1	4,624.6
02/18/2016	7	554	118	8.4	4,622.6
03/03/2016	8	528	118	8.2	4,623.6
03/14/2016	6	549	120	8.4	4,662.6

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-23		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/07/2016	6	536	118	8.2	4,609.8
01/20/2016	7	555	119	7.9	4,616.7
02/04/2016	6	546	117	7.9	4,618.8
02/18/2016	7	565	119	8.3	4,617.8
03/03/2016	7	542	120	8.1	4,616.8
03/14/2016	7	558	120	8.4	4,649.8

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-24		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

<u>Date</u>					
01/06/2016	6	548	119	8.5	4,608.7
01/20/2016	7	554	120	8.1	4,609.5
02/03/2016	7	551	121	8.2	4,612.7
02/17/2016	7	536	122	8.4	4,608.7
03/02/2016	7	534	123	8.3	4,608.7
03/14/2016	6	552	122	8.4	4,628.7

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-25		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/05/2016	7	550	119	8.4	4,593.4
01/20/2016	7	551	117	8.0	4,596.4
02/04/2016	6	543	115	8.3	4,592.4
02/17/2016	7	552	118	8.4	4,593.4
03/02/2016	7	532	119	8.4	4,592.4
03/21/2016	7	549	116	8.3	4,587.4

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-26		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/05/2016	7	541	121	8.6	4,593.2
01/20/2016	7	538	120	8.2	4,607.2
02/04/2016	6	530	119	8.4	4,593.2
02/17/2016	7	544	120	8.5	4,594.2
03/02/2016	7	524	120	8.4	4,593.2
03/21/2016	7	538	119	8.4	4,588.2

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-27		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/06/2016	6	540	118	8.5	4,597.2
01/20/2016	7	545	119	8.1	4,593.2
02/04/2016	7	535	118	8.4	4,596.2
02/17/2016	7	547	119	8.5	4,597.2
03/02/2016	7	527	120	8.4	4,596.2
03/21/2016	7	540	118	8.4	4,590.2

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-28		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/06/2016	6	541	118	8.7	4,609.1
01/20/2016	7	545	119	8.1	4,612.1
02/04/2016	6	537	117	8.5	4,601.1
02/18/2016	7	549	119	8.6	4,617.1
03/02/2016	7	523	120	8.5	4,612.1
03/21/2016	7	539	117	8.5	4,599.1

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-29		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/05/2016	7	541	120	8.5	4,608.9
01/20/2016	7	538	121	8.1	4,615.9
02/04/2016	6	532	117	8.5	4,602.9
02/18/2016	7	543	119	8.6	4,621.9
03/03/2016	7	519	120	8.3	4,603.9
03/21/2016	7	535	117	8.5	4,603.9

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-30		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/06/2016	6	521	115	8.7	4,609.2
01/21/2016	7	488	115	8.2	4,603.2
02/04/2016	7	516	114	8.5	4,603.2
02/18/2016	7	528	115	8.7	4,613.2
03/03/2016	7	509	117	8.4	4,609.2
03/21/2016	8	519	115	8.0	4,613.2

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-31		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

<u>Date</u>					
01/06/2016	6	522	120	8.8	4,612.9
01/21/2016	7	503	121	8.2	4,612.9
02/08/2016	7	541	122	8.7	4,604.9
02/22/2016	7	549	117	8.6	4,613.9
03/07/2016	7	501	122	8.6	4,621.9
03/21/2016	7	516	118	8.1	4,620.9

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-32		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/06/2016	6	519	119	8.7	4,615.3
01/21/2016	7	524	120	8.2	4,603.3
02/08/2016	7	543	122	8.5	4,606.3
02/22/2016	7	552	118	8.6	4,619.3
03/07/2016	7	503	123	8.5	4,626.3
03/21/2016	7	520	120	8.0	4,622.3

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-33		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/07/2016	6	514	116	8.8	4,618.2
01/21/2016	7	528	117	8.3	4,619.2
02/08/2016	7	547	117	8.6	4,610.2
02/22/2016	7	552	114	8.7	4,617.2
03/07/2016	7	507	119	8.6	4,620.2
03/21/2016	7	523	116	8.1	4,616.2

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-34-2		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	21	731	152		

Date

01/07/2016	7	530	117	8.7	4,611.7
01/21/2016	7	545	117	8.2	4,613.7
02/08/2016	7	561	118	8.5	4,611.7
02/22/2016	7	568	116	8.8	4,614.7
03/07/2016	7	521	121	8.6	4,615.7
03/21/2016	7	538	116	8.2	4,611.7

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-01-1		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	20	490	274		

Date

01/07/2016	5	389	198	8.9	4,627.2
01/25/2016	5	395	198	8.4	4,625.2
02/08/2016	5	412	198	8.8	4,634.2
02/22/2016	5	413	195	8.7	4,624.2
03/07/2016	5	381	203	8.7	4,622.2
03/24/2016	6	386	199	8.7	4,624.2

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-02		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	20	490	274		

Date

01/07/2016	5	394	202	9.0	4,626.2
01/25/2016	5	402	202	8.5	4,624.2
02/09/2016	5	408	201	8.8	4,624.2
02/23/2016	5	414	200	8.8	4,623.2
03/08/2016	5	397	200	8.8	4,623.2
03/24/2016	6	392	202	8.8	4,623.2

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-03		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	20	490	274		

Date

01/11/2016	5	400	197	8.4	4,625.8
01/26/2016	5	384	197	8.4	4,631.8
02/09/2016	6	402	195	8.7	4,622.8
02/23/2016	5	405	194	8.7	4,620.8
03/08/2016	5	388	195	8.7	4,620.8
03/24/2016	6	383	197	8.7	4,619.8

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-04		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	20	490	274		

Date

01/11/2016	4	436	221	8.3	4,626.6
01/26/2016	5	422	219	8.3	4,622.6
02/10/2016	4	437	219	8.7	4,625.6
02/23/2016	4	442	217	8.6	4,625.6
03/08/2016	4	425	217	8.6	4,621.6
03/29/2016	6	435	219	8.6	4,621.6

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-05-1		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	20	490	274		

Date

01/11/2016	5	395	195	8.4	4,626.1
01/26/2016	5	382	196	8.4	4,625.1
02/10/2016	5	398	194	8.8	4,622.1
02/24/2016	5	396	194	8.7	4,624.1
03/09/2016	5	377	194	8.7	4,622.1
03/29/2016	6	396	195	8.2	4,621.1

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-06		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	20	490	274		

<u>Date</u>					
01/12/2016	5	397	194	8.5	4,625.3
01/27/2016	5	393	195	8.4	4,625.3
02/10/2016	5	396	194	8.8	4,622.3
02/24/2016	5	395	193	8.7	4,622.3
03/09/2016	5	374	193	8.7	4,620.3
03/29/2016	6	393	194	8.2	4,620.3

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-07		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	20	490	274		

Date

01/12/2016	4	385	176	8.4	4,625.1
01/27/2016	5	383	175	8.4	4,630.1
02/09/2016	6	396	178	8.5	4,620.1
02/24/2016	5	387	175	8.7	4,621.1
03/09/2016	5	371	175	8.7	4,619.1
03/28/2016	6	387	176	8.2	4,619.1

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-08		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	20	490	274		

Date

01/14/2016	5	352	178	8.5	4,623.0
01/26/2016	5	367	180	8.2	4,623.3
02/09/2016	5	386	180	8.4	4,623.0
02/23/2016	5	379	177	8.3	4,622.0
03/09/2016	5	359	177	8.3	4,622.0
03/28/2016	6	375	179	8.3	4,621.0

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-09		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 1st QTR 2016	
Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
Units	mg/l	u mho/cm	mg/l as CaCo3		msl @ surface
Upper Control Limits	20	490	274		

Date

01/12/2016	5	403	184	8.5	4,625.3
01/28/2016	6	402	181	8.5	4,627.3
02/10/2016	6	406	184	8.4	4,624.3
02/23/2016	6	408	183	8.3	4,623.3
03/09/2016	5	390	183	8.3	4,623.3
03/24/2016	7	386	186	8.4	4,623.3

*Value Exceeds Upper Control Limit