



Uranerz Energy Corporation
(an Energy Fuels Company)
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October 20, 2016

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

40-9067

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 me at 307-232-6680 or by email at bbonifas@energyfuels.com.

Sincerely,

A handwritten signature in black ink that reads 'B. Bonifas' with a long horizontal line extending to the right.

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

NMSSZD



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BB/th

Attachments

3rd Quarter 2016 Report

cc: Dorrn Larner, Project Manager, WDEQ-LQD (via email)
Ron Linton, Project Manager, NRC (via email)
Bernadette Baca, Health Physicist, NRC (via email)



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3rd Quarter 2016 Report

Nichols Ranch ISR Project

WDEQ-LQD Permit to Mine No. 778

And

NRC License SUA-1597



TABLE OF CONTENTS

	<u>Page</u>
1.0 Introduction	3
2.0 Monitoring.....	3
2.1 Injection Fluid Characteristics.....	3
2.2 Injection Pressure and Flow Volumes (Class III Wells)	4
2.3 Monitor Well Sampling Results.....	5
2.3.1 Excursion Status.....	6
3.0 Mechanical Integrity Testing.....	6
4.0 Defective Wells, Well Repair and Plugging	6
5.0 Certification.....	7

LIST OF TABLES

Table 1: Injection Fluid Composition	4
Table 2: Weekly Maximum Injection Pressure.....	4
Table 3: Wellfield Weekly Flow Volumes Production Area #1	5
Table 4: Mechanical Integrity Tests.....	8

LIST OF ATTACHMENTS

Appendix A: Monitor Well Reports (pages A1 through A55)



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 8.
- Installation of roads, reclamation, and reseeding were completed in header houses 7 and 8 during the 3rd quarter.
- Header house 8 was brought online July 5, 2016.
- Well installation in header house 9 began during the quarter.
- The Hydrologic Test Document for PA#2 was submitted in July 2016 for review and approval by WDEQ-LQD with a copy to the NRC for review.

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 July, August, and September 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	July 2016	August 2016	September 2016
Calcium (mg/L)	20-500	117	115	134
Chloride (mg/L)	200-5000	76	121	78
Carbonate as CO ₃ (mg/L)	1-2500	15	13	Not Detected
Bicarbonate as HCO ₃ (mg/L)	400-5000	1290	1250	1390
Potassium (mg/L)	15-300	10	11	10
Magnesium (mg/L)	3-100	15	15	17
Manganese (mg/L)	0.01-50	0.08	0.07	0.10
Sodium (mg/L)	400-6000	572	603	591
Sulfate (mg/L)	400-5000	522	496	549
TDS @ 180 (mg/L)	1500-12000	2130	1940	1980
U ₃ O ₈ (mg/L)	0.01-500	1.32	0.10	0.02
V ₂ O ₅ (mg/L)	0.01-100	0.96	0.47	0.59

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 8.

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	Header House 8
July 10, 2016	147	145	146	132	132	140	114	126
July 17, 2016	145	146	143	134	128	140	120	117
July 24, 2016	145	142	144	132	129	138	112	119
July 31, 2016	145	146	146	140	139	142	124	125
August 07, 2016	143	140	145	133	133	133	119	116
August 14, 2016	135	139	149	133	141	135	135	129



Table 2: Weekly Maximum Injection Pressure (Continued)

August 21, 2016	145	145	146	137	135	139	134	114
August 28, 2016	145	146	146	145	132	140	134	140
September 04, 2016	143	147	145	135	137	143	136	128
September 11, 2016	140	145	147	126	133	138	132	132
September 18, 2016	139	140	145	130	136	141	135	133
September 25, 2016	145	145	149	137	142	137	138	115
October 02, 2016	141	146	148	144	142	136	137	116

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 0.8%.

Table 3: Wellfield Weekly Flow Volumes

Production Area #1				
Week Ending	Recovery (gallons)	Injection (gallons)	Wellfield Bleed (gallons)	% Bleed
July 10, 2016	22,738,000	22,502,955	235,045	1.0%
July 17, 2016	23,340,500	23,088,120	252,380	1.1%
July 24, 2016	24,786,750	24,561,023	225,727	0.9%
July 31, 2016	23,998,750	23,770,535	228,215	1.0%
August 07, 2016	24,855,550	24,621,391	234,159	0.9%
August 14, 2016	20,582,750	20,376,591	206,159	1.0%
August 21, 2016	24,427,250	24,220,766	206,484	0.8%
August 28, 2016	24,497,950	24,309,893	188,057	0.8%
September 04, 2016	24,845,450	24,671,942	173,508	0.7%
September 11, 2016	24,517,350	24,345,530	171,820	0.7%
September 18, 2016	24,048,650	23,881,786	166,864	0.7%
September 25, 2016	23,454,900	23,288,561	166,339	0.7%
October 02, 2016	23,961,150	23,789,154	171,996	0.7%
Totals	310,055,000	307,428,247	2,626,753	0.8%

2.3 Monitor Well Sampling Results

Monitor well sampling is performed during operations 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 high conductivity values during the third quarter of 2016. 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 around the perimeter of 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 8 and the subsequent balancing of water flow throughout the production area in order to maintain the required inward hydraulic gradient according to NRC License 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.

Sixty-eight (68) Class III wells 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, BA-032, and is scheduled to be plugged and abandoned during the 4th quarter.

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. During the 3rd quarter, Uranerz did not plug and abandon any wells.

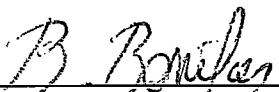


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Plugging and abandonment of wells is performed in accordance with Permit to Mine No. 778, Volume VIII, Mine Plan Section 3.8, and in accordance with Wyoming Statute 35-11-404 (described in NRC License Application Volume I Section 6.1). Well abandonment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

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.



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

**Table 4: Mechanical Integrity Tests
WDEQ - Quarterly Report/3rd 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	DE064B	07/05/2016	PVC	490	470	190	174	16	07/05/2021	PASS
2	D1071	07/05/2016	PVC	465	450	190	180	10	07/05/2021	PASS
3	DJ073	07/06/2016	PVC	481	460	190	176	14	07/06/2021	PASS
4	N1A-051	07/07/2016	PVC	549	530	190	173	17	07/07/2021	PASS
5	N1B-013	07/07/2016	PVC	569	550	190	174	16	07/07/2021	PASS
6	N1A-084	07/08/2016	PVC	564	540	190	181	9	07/08/2021	PASS
7	CJ049	07/11/2016	PVC	593	570	190	185	5	07/11/2021	PASS
8	CJ053	07/11/2016	PVC	604	580	190	177	13	07/11/2021	PASS
9	N1A-058	07/11/2016	PVC	549	530	190	180	10	07/11/2021	PASS
10	N1A-100	07/11/2016	PVC	549	530	190	184	6	07/11/2021	PASS
11	CH053	07/12/2016	PVC	609	580	190	177	13	07/12/2021	PASS
12	N1B-062	07/12/2016	PVC	633	610	190	180	10	07/12/2021	PASS
13	N1B-032	07/13/2016	PVC	574	550	190	174	16	07/13/2021	PASS
14	N1B-089-1	07/13/2016	PVC	633	610	190	177	13	07/13/2021	PASS
15	N1C-045	07/14/2016	PVC	637	620	190	177	13	07/14/2021	PASS
16	N1C-046-1	07/14/2016	PVC	680	640	190	172	18	07/14/2021	PASS
17	N1C-034-1	07/18/2016	PVC	654	630	190	184	6	07/18/2021	PASS
18	BT035	07/20/2016	PVC	591	570	190	173	17	07/20/2021	PASS
19	BY036B	07/20/2016	PVC	606	580	190	178	12	07/20/2021	PASS
20	BY036C	07/20/2016	PVC	606	580	190	175	15	07/20/2021	PASS
21	N1A-033	07/20/2016	PVC	539	520	190	179	11	07/20/2021	PASS
22	CD037	07/21/2016	PVC	598	580	190	176	14	07/21/2021	PASS
23	N1A-034	07/21/2016	PVC	590	560	190	182	8	07/21/2021	PASS
24	N1B-016	07/25/2016	PVC	626	610	190	188	2	07/25/2021	PASS
25	N1B-029	07/25/2016	PVC	558	540	190	187	3	07/25/2021	PASS
26	CF055	07/26/2016	PVC	600	580	190	178	12	07/26/2021	PASS
27	CU063	07/26/2016	PVC	573	550	190	185	5	07/26/2021	PASS

**Table 4: Mechanical Integrity Tests
WDEQ - Quarterly Report/3rd 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	CD037C	07/27/2016	PVC	598	580	190	178	12	07/27/2021	PASS
29	CL045	07/27/2016	PVC	551	530	190	184	6	07/27/2021	PASS
30	CM044	07/27/2016	PVC	553	530	190	179	11	07/27/2021	PASS
31	CV051B	07/27/2016	PVC	585	560	190	177	13	07/27/2021	PASS
32	N1A-010	07/28/2016	PVC	587	570	190	177	13	07/28/2021	PASS
33	N1A-073	08/01/2016	PVC	599	580	190	178	12	08/01/2021	PASS
34	N1A-112	08/01/2016	PVC	549	530	190	182	8	08/01/2021	PASS
35	N1B-030	08/02/2016	PVC	593	570	190	185	5	08/02/2021	PASS
36	N1B-081	08/02/2016	PVC	605	580	190	180	10	08/02/2021	PASS
37	N1A-053	08/03/2016	PVC	601	580	190	175	15	08/03/2021	PASS
38	N1B-015-1	08/03/2016	PVC	644	590	190	185	5	08/03/2021	PASS
39	BX034	08/04/2016	PVC	607	590	190	187	3	08/04/2021	PASS
40	N1B-065	08/04/2016	PVC	649	630	190	180	10	08/04/2021	PASS
41	BW035	08/08/2016	PVC	600	580	190	174	16	08/08/2021	PASS
42	CU056	08/09/2016	PVC	579	560	190	184	6	08/09/2021	PASS
43	DE066	08/09/2016	PVC	498	480	190	185	5	08/09/2021	PASS
44	N1B-077	08/10/2016	PVC	594	570	190	180	10	08/10/2021	PASS
45	CD034	08/11/2016	PVC	614	590	190	182	8	08/11/2021	PASS
46	N1B-001	08/11/2016	PVC	610	590	190	177	13	08/11/2021	PASS
47	AU031	08/23/2016	PVC	627	610	190	175	15	08/23/2021	PASS
48	DJ075	08/23/2016	PVC	517	500	190	176	14	08/23/2021	PASS
49	CF042	08/24/2016	PVC	603	580	190	175	15	08/24/2021	PASS
50	DG067	08/24/2016	PVC	478	460	190	180	10	08/24/2021	PASS
51	AU030	08/25/2016	PVC	630	560	190	177	13	08/25/2021	PASS
52	AW032B	08/29/2016	PVC	631	610	190	173	17	08/29/2021	PASS
53	AZ031	08/29/2016	PVC	635	610	190	176	14	08/29/2021	PASS
54	AT031	08/30/2016	PVC	617	600	190	174	16	08/30/2021	PASS

**Table 4: Mechanical Integrity Tests
WDEQ - Quarterly Report/3rd 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	AU034	08/30/2016	PVC	627	610	190	175	15	08/30/2021	PASS
56	AT029	09/06/2016	PVC	598	580	190	173	17	09/06/2021	PASS
57	AU035	09/06/2016	PVC	614	590	190	181	9	09/06/2021	PASS
58	AV033	09/07/2016	PVC	628	600	190	183	7	09/07/2021	PASS
59	AV035B	09/07/2016	PVC	639	620	190	180	10	09/07/2021	PASS
60	AW029	09/08/2016	PVC	598	580	190	174	16	09/08/2021	PASS
61	AY031	09/12/2016	PVC	640	620	190	174	16	09/12/2021	PASS
62	AU027	09/15/2016	PVC	592	570	225	206	19	09/15/2021	PASS
63	AX028	09/20/2016	PVC	598	580	225	210	15	09/20/2021	PASS
64	AX028B	09/20/2016	PVC	577	560	225	205	20	09/20/2021	PASS
65	AU026	09/21/2016	PVC	588	570	225	218	7	09/21/2021	PASS
66	BA028B	09/21/2016	PVC	626	610	225	206	19	09/21/2021	PASS
67	BB030	09/21/2016	PVC	594	570	225	212	13	09/21/2021	PASS
68	BA032	09/27/2016	PVC	644	560	190	171	19	09/27/2021	FAIL



Appendix A

Production Area 1 Well ID MON-01		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 3rd 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					
07/14/2016	8	546	114	7.9	4,639.9
07/26/2016	7	535	114	8.0	4,640.5
08/09/2016	8	545	117	8.0	4,642.9
08/23/2016	7	541	117	7.8	4,641.7
09/09/2016	7	539	114	7.8	4,642.3
09/22/2016	8	536	116	8.0	4,641.9

*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 3rd 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>					
07/14/2016	7	543	114	8.1	4,644.4
07/27/2016	6	540	115	7.9	4,644.1
08/10/2016	7	549	119	8.0	4,645.2
08/23/2016	7	548	118	8.0	4,644.8
09/09/2016	7	539	115	8.0	4,645.1
09/21/2016	7	530	116	7.9	4,645.2

*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 3rd 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>					
07/13/2016	7	563	115	8.0	4,646.4
07/27/2016	6	539	113	7.9	4,646.3
08/11/2016	7	519	114	7.9	4,647.0
08/24/2016	7	545	117	7.9	4,647.0
09/09/2016	7	542	114	8.0	4,647.3
09/21/2016	7	532	116	7.8	4,647.4

*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 3rd 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>					
07/13/2016	7	541	113	8.2	4,651.5
07/27/2016	6	515	113	8.4	4,651.3
08/10/2016	7	509	120	8.1	4,651.3
08/23/2016	6	529	116	8.1	4,651.4
09/12/2016	7	514	113	8.3	4,651.7
09/26/2016	8	509	116	8.2	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 3rd 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>					
07/12/2016	7	542	114	8.8	4,652.8
07/27/2016	7	564	113	8.7	4,652.7
08/09/2016	7	537	115	8.5	4,652.5
08/23/2016	7	573	117	8.3	4,652.7
09/12/2016	7	557	114	8.6	4,651.1
09/26/2016	8	546	116	8.6	4,652.7

*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 3rd 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>					
07/13/2016	7	562	115	8.1	4,653.4
07/26/2016	6	551	114	8.2	4,653.3
08/09/2016	8	563	117	8.3	4,653.1
08/22/2016	7	558	120	8.0	4,653.7
09/13/2016	7	559	117	8.2	4,653.8
09/27/2016	8	560	119	8.4	4,652.9

*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 3rd 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>					
07/13/2016	7	570	114	8.3	4,651.1
07/25/2016	7	577	121	8.1	4,651.6
08/08/2016	7	519	114	8.2	4,651.7
08/22/2016	7	559	117	8.0	4,652.2
09/12/2016	7	557	114	8.0	4,651.9
09/26/2016	8	553	117	8.1	4,651.9

*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 3rd 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>					
07/11/2016	7	543	114	8.1	4,657.7
07/25/2016	7	573	124	8.2	4,657.4
08/08/2016	7	555	113	8.1	4,657.4
08/23/2016	7	573	115	8.1	4,657.4
09/08/2016	7	513	112	8.1	4,657.7
09/20/2016	7	571	114	8.1	4,657.8

*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 3rd 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>					
07/11/2016	7	560	118	7.8	4,659.5
07/25/2016	7	567	126	7.9	4,659.3
08/08/2016	7	553	116	8.0	4,659.2
08/22/2016	6	554	118	7.8	4,656.5
09/08/2016	7	564	117	7.8	4,656.5
09/20/2016	7	581	119	7.8	4,659.4

*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 3rd 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

07/11/2016	7	576	110	7.8	4,661.3
07/27/2016	7	580	111	8.1	4,661.1
08/08/2016	7	566	112	7.9	4,661.1
08/22/2016	7	568	115	7.8	4,661.4
09/08/2016	7	546	116	7.8	4,661.5
09/20/2016	8	603	114	7.8	4,661.3

*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 3rd 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					
07/07/2016	7	839 *	106	7.7	4,662.8
07/19/2016	6	822 *	113	7.5	4,663.8
08/01/2016	6	794 *	109	7.5	4,663.4
08/17/2016	7	840 *	105	7.6	4,662.6
09/12/2016	6	831 *	103	7.7	4,663.2
09/26/2016	7	790 *	105	7.6	4,663.1

*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 3rd 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					
07/07/2016	8	681	112	7.8	4,662.7
07/19/2016	7	607	114	7.4	4,662.3
08/01/2016	7	684	111	7.5	4,660.4
08/17/2016	8	664	112	7.6	4,660.7
09/12/2016	7	679	109	7.6	4,663.1
09/26/2016	7	657	110	7.6	4,661.7

*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 3rd 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					
07/07/2016	8	627	114	7.7	4,663.1
07/20/2016	7	630	112	7.6	4,663.7
08/02/2016	7	634	113	7.6	4,663.6
08/17/2016	8	619	114	7.7	4,663.5
09/08/2016	7	569	111	7.7	4,663.9
09/20/2016	7	642	113	7.7	4,663.8

*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 3rd 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>					
07/06/2016	7	556	115	8.2	4,589.0
07/18/2016	7	548	115	8.2	4,592.0
08/01/2016	7	542	121	8.2	4,614.7
08/16/2016	8	583	115	8.2	4,593.6
09/01/2016	8	546	119	8.0	4,594.7
09/13/2016	7	542	120	8.3	4,588.1

*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 3rd 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					
07/06/2016	9	564	119	8.2	4,628.8
07/18/2016	8	556	116	7.9	4,630.8
08/01/2016	9	551	124	8.2	4,643.0
08/16/2016	9	571	116	8.0	4,624.0
09/01/2016	8	561	119	8.0	4,622.3
09/13/2016	8	555	120	8.0	4,612.0

*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 3rd 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					
07/06/2016	9	568	111	8.3	4,628.6
07/18/2016	9	559	112	8.2	4,633.6
08/01/2016	9	554	117	8.2	4,640.3
08/16/2016	9	570	112	8.2	4,619.8
09/01/2016	8	561	116	8.0	4,619.9
09/14/2016	8	556	112	8.1	4,607.8

*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 3rd 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					
07/06/2016	8	581	114	8.2	4,627.3
07/19/2016	7	594	114	8.1	4,636.4
08/01/2016	7	568	120	7.9	4,635.4
08/16/2016	8	575	115	8.3	4,618.1
09/07/2016	7	571	117	8.0	4,611.3
09/21/2016	8	561	117	8.1	4,626.0

*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 3rd 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					
07/07/2016	8	582	113	8.3	4,604.6
07/18/2016	7	573	114	8.1	4,640.6
08/01/2016	7	567	118	8.1	4,614.4
08/16/2016	8	557	109	8.3	4,602.5
09/01/2016	8	568	116	8.2	4,606.2
09/14/2016	7	556	111	8.2	4,605.8

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-06		Urnerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 3rd 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>					
07/07/2016	9	592	114	8.2	4,598.6
07/18/2016	7	578	110	8.2	4,630.6
08/01/2016	7	571	116	8.0	4,615.2
08/17/2016	8	572	115	8.2	4,604.6
09/01/2016	8	573	113	8.1	4,602.3
09/14/2016	8	566	111	8.2	4,604.3

*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 3rd 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					
07/07/2016	9	590	111	8.1	4,596.4
07/19/2016	7	570	118	8.1	4,618.4
08/02/2016	8	592	109	8.1	4,611.4
08/17/2016	9	570	108	8.0	4,620.3
09/01/2016	8	578	107	8.1	4,605.9
09/14/2016	8	568	105	8.1	4,603.5

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-08		Uranez Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 3rd 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>					
07/05/2016	8	592	114	8.2	4,590.0
07/18/2016	7	583	111	8.2	4,592.0
08/01/2016	7	574	117	8.3	4,589.2
08/15/2016	9	588	107	8.2	4,616.0
09/01/2016	8	579	109	8.1	4,607.7
09/14/2016	8	568	112	8.1	4,598.4

*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 3rd 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>					
07/05/2016	7	591	115	8.0	4,594.8
07/18/2016	7	584	113	8.0	4,593.8
08/01/2016	8	575	120	8.1	4,591.2
08/15/2016	8	597	115	8.0	4,619.8
09/01/2016	8	583	115	7.9	4,609.9
09/14/2016	7	570	115	8.0	4,607.8

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-10		Urinerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 3rd 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>					
07/05/2016	8	585	109	7.9	4,594.4
07/18/2016	7	577	107	8.0	4,597.4
08/01/2016	8	570	111	8.0	4,595.0
08/15/2016	9	584	107	8.0	4,621.1
09/01/2016	8	573	109	7.9	4,610.5
09/14/2016	8	562	106	8.1	4,615.1

*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 3rd 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					
07/05/2016	8	591	115	7.9	4,591.3
07/18/2016	7	584	113	8.0	4,595.3
08/01/2016	7	574	119	8.0	4,593.0
08/15/2016	8	588	115	8.1	4,612.2
09/01/2016	8	582	116	7.9	4,608.0
09/15/2016	7	579	117	8.0	4,613.0

*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 3rd 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					
07/05/2016	8	590	119	8.0	4,589.9
07/18/2016	7	581	118	7.9	4,588.9
08/01/2016	6	574	123	8.2	4,586.5
08/15/2016	8	587	118	8.0	4,602.4
09/01/2016	8	580	122	7.8	4,604.2
09/15/2016	7	574	122	8.0	4,609.0

*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 3rd 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					
07/06/2016	8	589	120	8.1	4,604.3
07/20/2016	7	608	118	8.1	4,582.0
08/01/2016	7	577	124	8.0	4,581.4
08/16/2016	7	575	119	8.0	4,597.1
09/01/2016	7	577	122	7.9	4,603.9
09/15/2016	7	579	122	7.9	4,605.1

*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 3rd 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>					
07/06/2016	7	596	119	8.0	4,617.0
07/18/2016	6	585	118	8.2	4,589.0
08/01/2016	6	579	124	8.0	4,584.2
08/16/2016	8	578	119	8.0	4,594.9
09/01/2016	8	580	122	7.9	4,607.7
09/15/2016	7	580	122	8.0	4,608.5

*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 3rd 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					
07/06/2016	7	584	123	7.9	4,632.1
07/20/2016	7	597	123	8.0	4,582.7
08/02/2016	7	583	125	8.2	4,581.9
08/16/2016	8	568	121	7.9	4,592.7
09/07/2016	7	578	124	7.9	4,613.6
09/19/2016	7	563	127	7.8	4,596.9

*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 3rd 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					
07/06/2016	7	574	122	7.8	4,644.9
07/20/2016	6	588	121	7.9	4,603.5
08/02/2016	6	573	122	7.9	4,602.1
08/16/2016	7	557	121	7.8	4,606.7
09/07/2016	6	566	124	7.7	4,626.9
09/19/2016	7	554	126	7.7	4,614.7

*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 3rd 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

07/06/2016	7	559	123	7.8	4,643.5
07/20/2016	6	567	122	7.9	4,613.2
08/02/2016	7	555	124	7.9	4,612.3
08/16/2016	7	540	122	7.9	4,613.9
09/07/2016	7	548	124	7.7	4,632.1
09/19/2016	7	534	128	7.7	4,620.3

*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 3rd 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					
07/06/2016	7	558	122	7.8	4,638.7
07/20/2016	7	565	121	7.9	4,602.2
08/02/2016	7	556	122	7.9	4,602.8
08/16/2016	8	540	120	7.9	4,606.7
09/07/2016	7	549	124	7.8	4,625.4
09/19/2016	7	531	125	7.7	4,612.3

*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 3rd 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>					
07/07/2016	8	556	122	8.2	4,644.4
07/20/2016	7	561	119	8.2	4,597.1
08/02/2016	7	558	121	8.2	4,596.9
08/16/2016	8	542	117	8.1	4,604.7
09/07/2016	7	544	121	7.9	4,620.5
09/19/2016	8	528	124	8.0	4,608.1

*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 3rd 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>					
07/07/2016	8	558	122	7.9	4,631.9
07/19/2016	7	559	119	7.9	4,606.7
08/02/2016	7	551	121	8.0	4,598.0
08/17/2016	8	536	123	8.0	4,627.7
09/12/2016	6	539	120	7.8	4,620.1
09/26/2016	8	532	122	7.8	4,619.1

*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 3rd 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					
07/07/2016	8	553	118	8.0	4,611.6
07/20/2016	7	556	115	7.9	4,599.3
08/02/2016	7	549	117	8.0	4,600.1
08/17/2016	8	531	119	7.9	4,617.4
09/07/2016	7	538	117	7.8	4,621.2
09/19/2016	8	525	120	7.9	4,608.9

*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 3rd 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					
07/07/2016	7	556	125	7.9	4,598.8
07/20/2016	7	555	121	8.0	4,604.2
08/02/2016	7	544	121	8.0	4,603.9
08/17/2016	7	529	126	7.9	4,616.1
09/08/2016	7	609	111	7.9	4,619.3
09/20/2016	7	552	123	7.8	4,613.9

*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 3rd 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>					
07/12/2016	7	551	121	8.1	4,607.7
07/25/2016	7	551	129	8.0	4,610.7
08/08/2016	7	530	120	8.0	4,610.9
08/22/2016	7	536	122	8.0	4,614.9
09/06/2016	8	542	124	7.9	4,615.9
09/20/2016	7	573	123	7.8	4,615.6

*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 3rd 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>					
07/07/2016	8	558	124	8.0	4,588.4
07/20/2016	7	561	119	7.9	4,601.9
08/02/2016	7	555	122	8.0	4,598.6
08/17/2016	8	535	122	7.9	4,606.5
09/06/2016	8	540	122	7.9	4,603.2
09/20/2016	7	570	122	7.9	4,607.3

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-26		Urnerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 3rd 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					
07/11/2016	7	537	120	8.0	4,595.2
07/25/2016	7	543	129	8.1	4,605.7
08/08/2016	7	523	121	8.1	4,607.2
08/22/2016	6	525	123	8.1	4,606.4
09/06/2016	8	535	123	8.0	4,600.3
09/20/2016	8	564	123	8.1	4,607.6

*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 3rd 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>					
07/11/2016	7	540	120	8.1	4,598.2
07/25/2016	7	544	129	8.0	4,613.6
08/08/2016	7	525	120	8.2	4,615.6
08/22/2016	6	526	123	8.0	4,611.3
09/06/2016	7	535	122	8.1	4,603.6
09/20/2016	7	567	122	8.0	4,614.6

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-28		Urnerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 3rd 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

07/11/2016	7	542	121	8.0	4,612.1
07/25/2016	7	545	129	8.1	4,630.3
08/08/2016	7	526	122	8.0	4,633.8
08/22/2016	6	528	122	8.0	4,628.3
09/05/2016	8	535	123	8.0	4,621.0
09/21/2016	7	521	123	8.0	4,634.1

*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 3rd 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					
07/11/2016	7	537	122	8.1	4,621.9
07/25/2016	7	542	128	8.1	4,636.8
08/08/2016	7	519	120	8.1	4,639.4
08/22/2016	6	523	121	8.0	4,636.3
09/07/2016	7	534	121	8.1	4,641.3
09/21/2016	7	521	121	8.0	4,644.0

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-30		Unanerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 3rd 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					
07/11/2016	7	524	116	8.0	4,633.2
07/26/2016	6	519	115	7.9	4,646.9
08/09/2016	8	524	118	8.2	4,631.3
08/24/2016	7	533	118	7.9	4,629.5
09/08/2016	7	536	122	7.9	4,643.1
09/22/2016	8	530	118	8.1	4,645.9

*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 3rd 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

07/11/2016	7	521	121	8.3	4,629.9
07/25/2016	7	530	132	8.3	4,641.0
08/08/2016	7	503	120	8.5	4,625.7
08/22/2016	7	509	122	8.3	4,629.4
09/07/2016	7	514	121	8.3	4,641.9
09/21/2016	7	507	123	8.3	4,645.7

*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 3rd 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

07/13/2016	7	529	122	8.2	4,631.3
07/26/2016	7	520	121	8.2	4,643.5
08/09/2016	8	523	122	8.2	4,612.0
08/23/2016	6	531	123	8.1	4,634.8
09/07/2016	6	516	124	8.1	4,642.3
09/21/2016	7	514	123	8.0	4,646.2

*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 3rd 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					
07/12/2016	7	533	117	8.3	4,628.2
07/26/2016	6	521	118	8.3	4,641.3
08/10/2016	7	522	122	8.3	4,596.0
08/23/2016	7	533	120	8.2	4,636.5
09/08/2016	7	521	116	8.2	4,641.6
09/21/2016	7	518	120	8.0	4,645.6

*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 3rd 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>					
07/13/2016	7	540	119	8.2	4,624.7
07/26/2016	7	535	116	8.3	4,636.2
08/09/2016	8	535	119	8.2	4,622.8
08/23/2016	7	549	120	8.0	4,632.9
09/08/2016	7	523	118	8.3	4,634.6
09/20/2016	7	552	121	8.1	4,637.4

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-01-1	Urnerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS			Quarterly Report 3rd 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>					
07/14/2016	5	403	198	8.5	4,622.2
07/26/2016	5	389	197	8.5	4,623.2
08/09/2016	6	391	200	8.4	4,624.1
08/23/2016	5	399	201	8.4	4,624.1
09/09/2016	6	387	197	8.4	4,624.6
09/21/2016	6	385	200	8.4	4,624.6

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-02	Urnerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS			Quarterly Report 3rd 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>					
07/14/2016	6	409	201	8.5	4,622.2
07/27/2016	5	397	201	8.5	4,622.8
08/09/2016	6	403	209	8.6	4,623.3
08/24/2016	5	400	207	8.5	4,623.0
09/09/2016	5	394	200	8.5	4,623.6
09/21/2016	5	397	206	8.1	4,624.5

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-03		Urnerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 3rd 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					
07/13/2016	6	404	197	8.4	4,619.8
07/27/2016	5	385	197	8.4	4,620.4
08/11/2016	5	384	198	8.4	4,620.3
08/24/2016	5	393	198	8.4	4,620.3
09/09/2016	5	385	195	8.4	4,621.0
09/21/2016	6	388	200	8.0	4,622.0

*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 3rd 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>					
07/13/2016	5	442	219	8.4	4,620.6
07/27/2016	4	420	219	8.3	4,619.8
08/11/2016	4	425	219	8.3	4,621.0
08/23/2016	4	434	222	8.0	4,621.4
09/12/2016	4	425	219	8.3	4,622.1
09/26/2016	5	426	221	8.3	4,622.3

*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 3rd 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>					
07/12/2016	5	396	197	8.5	4,621.1
07/27/2016	5	381	195	8.2	4,620.6
08/11/2016	5	286	196	8.2	4,620.8
08/23/2016	5	394	198	8.1	4,621.7
09/12/2016	5	388	196	8.4	4,621.9
09/26/2016	6	388	198	8.4	4,622.5

*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 3rd 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>					
07/13/2016	6	400	195	8.1	4,619.3
07/26/2016	5	383	195	8.1	4,619.7
08/09/2016	6	395	197	8.1	4,620.1
08/22/2016	5	378	197	8.1	4,620.6
09/13/2016	5	383	198	8.4	4,621.2
09/26/2016	6	386	198	8.0	4,623.0

*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 3rd 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>					
07/13/2016	6	388	176	8.4	4,617.1
07/25/2016	6	386	187	8.3	4,618.2
08/08/2016	6	372	178	8.4	4,618.5
08/22/2016	5	367	179	8.1	4,619.9
09/12/2016	5	376	176	8.0	4,619.8
09/26/2016	6	372	178	8.0	4,620.0

*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 3rd 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					
07/11/2016	5	374	181	8.1	4,620.0
07/25/2016	6	375	189	8.1	4,620.0
08/08/2016	6	363	179	8.2	4,620.8
08/23/2016	5	373	181	8.2	4,620.9
09/08/2016	5	371	179	8.2	4,622.3
09/20/2016	6	388	182	8.1	4,622.5

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-09		Uranez Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 3rd 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>					
07/11/2016	6	403	186	8.3	4,620.3
07/25/2016	6	402	195	8.4	4,621.9
08/08/2016	6	386	186	8.5	4,622.1
08/22/2016	6	384	187	8.1	4,623.1
09/08/2016	5	365	179	8.1	4,623.6
09/20/2016	7	413	188	8.1	4,624.0

*Value Exceeds Upper Control Limit