



July 28, 2015

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

Attn: Document Control Desk  
Director  
Office of Federal and State Materials and Environmental Management Programs,  
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Washington, DC 20555-0001

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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.


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

Sincerely,



Michael P. Thomas  
Vice President Regulatory and Public Affairs  
Uranerz Energy Corporation

MT/th

Attachments  
2<sup>nd</sup> Quarter 2015 Report

cc: Dorran Larnier, Project Manager, WDEQ-LQD (via email)  
Ron Linton, Project Manager, NRC (via email)  
Linda Gersey, Lead Inspector, NRC (via email)



**2<sup>nd</sup> Quarter 2015 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 4.
- Header house 6 was developed and brought online.
- New well installation occurred during the first half of the quarter. Well completion details are available at the mine site and are provided in the annual report to the WDEQ-LQD. Well installation and development of header house 5 will commence in the third quarter.
- Delineation drilling was minimal for the quarter. A separate report will be submitted for delineation drilling.

### Hank Unit

- No activities took place at the Hank Unit.
- The Environmental Assessment (EA) submitted to the Buffalo Wyoming Bureau of Land Management (BLM) office was approved during preparation of this report.

## 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 April, May and June 2015 based on a grab sample collected each month and submitted to a third party laboratory for analysis.

<b>Table 1: Injection Fluid Composition</b>				
<b>Parameter</b>	<b>Permit Value Range</b>	<b>April 2015</b>	<b>May 2015</b>	<b>June 2015</b>
Calcium (mg/L)	20-500	128	138	85
Chloride (mg/L)	200-5000	113	118	119
Carbonate as CO <sub>3</sub> (mg/L)	1-2500	Not Detected	28	Not Detected
Bicarbonate as HCO <sub>3</sub> (mg/L)	400-5000	1580	1580	Not Detected
Potassium (mg/L)	15-300	10	13	7
Magnesium (mg/L)	3-100	18	22	14
Manganese (mg/L)	0.01-50	0.12	0.12	0.05
Sodium (mg/L)	400-6000	633	725	499
Sulfate (mg/L)	400-5000	395	332	262
TDS @ 180 (mg/L)	1500-12000	2150	2250	8260
U <sub>3</sub> O <sub>8</sub> (mg/L)	0.01-500	0.42	0.14	0.03
V <sub>2</sub> O <sub>5</sub> (mg/L)	0.01-100	1.08	0.61	0.21

## 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 by manifold. Uranerz monitors these injection pressure and flow rates by header house. At this time, operations is occurring in PA #1, header houses 1 through 4 and header house 6.

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. The maximum pressure for Nichols Ranch is 150 psi.

<b>Table 2: Weekly Maximum Injection Pressure</b>					
<b>Week Ending</b>	<b>Header House 1</b>	<b>Header House 2</b>	<b>Header House 3</b>	<b>Header House 4</b>	<b>Header House 6</b>
April 05, 2015	140	79	116	108	Not in production
April 12, 2015	139	84	122	108	Not in production
April 19, 2015	140	107	115	140	Not in production
April 26, 2015	134	77	119	120	Not in production
May 03, 2015	135	62	120	120	Not in production

<b>Table 2: Weekly Maximum Injection Pressure (continued)</b>					
<b>Week Ending</b>	<b>Header House 1</b>	<b>Header House 2</b>	<b>Header House 3</b>	<b>Header House 4</b>	<b>Header House 6</b>
May 10, 2015	136	80	118	128	140
May 17, 2015	136	55	115	85	136
May 24, 2015	137	42	115	59	127
May 31, 2015	135	59	108	67	129
June 07, 2015	137	48	125	84	136
June 14, 2015	132	40	112	74	137
June 21, 2015	132	58	109	68	136
June 28, 2015	131	52	107	63	127

Flow rates are also continuously recorded via electronic instrumentation at the header houses. Table 3 is a tabulation of the production, injection, and bleed flow volumes for the quarter. The average bleed rate for the period was 1.1%.

<b>Table 3: Wellfield Weekly Flow Volumes</b>				
<b>Production Area #1</b>				
<b>Week Ending</b>	<b>Recovery (gallons)</b>	<b>Injection (gallons)</b>	<b>Wellfield Bleed (gallons)</b>	<b>% Bleed</b>
April 05, 2015	15,012,050	14,840,100	171,950	1.4%
April 12, 2015	15,946,750	15,784,850	161,900	1.3%
April 19, 2015	15,860,750	15,690,250	170,500	1.3%
April 26, 2015	15,973,450	15,823,750	149,700	0.9%
May 03, 2015	15,948,800	15,768,750	180,050	1.1%
May 10, 2015	15,592,050	15,432,400	159,650	1.0%
May 17, 2015	15,734,200	15,561,450	172,750	1.1%
May 24, 2015	15,671,500	15,503,050	168,450	1.1%
May 31, 2015	16,148,450	15,961,450	187,000	1.2%
June 07, 2015	16,215,150	16,026,600	188,550	1.2%
June 14, 2015	19,290,700	19,059,750	230,950	1.2%
June 21, 2015	20,072,800	19,860,100	212,700	1.1%
June 28, 2015	19,319,050	19,133,500	185,550	1.0%
<b>Totals</b>	<b>216,785,700</b>	<b>214,446,000</b>	<b>2,339,700</b>	<b>1.1%</b>

### 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 wellfields in production are sampled twice a month, at least 10 days apart, 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 perimeter, 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 has shown increased conductivity values during the first and second quarters of 2015. During this time, the well has been monitored closely. While conductivity remains above the UCL, it has stabilized to an approximate average of 778 umho/cm for eight consecutive rounds of sampling. MON-11 is scheduled to be swabbed during the third quarter of 2015 to clean the wellbore of possible contaminants that may be contributing to the increase in the conductivity value of this well.

### 2.3.1 Excursion Status

Based on the water quality reports and analysis there were no excursions which required reporting during this 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. 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.

Eighty-two (82) Class III wells were tested for mechanical integrity during the report period and the MIT results are attached as Table 4. Wells testing with a pressure at or below 10% in a 10-minute timeframe have passed the MIT. One well failed MIT; CL-053, and is scheduled to be plugged and abandoned during the 3<sup>rd</sup> 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. Table 5 lists the status of defective wells having failed MIT. As reported in the 4<sup>th</sup> quarter 2014 report, wells NIC-054-1 and NIC-032 were reported as having failed MIT. Both wells were plugged and abandoned in April 2015. In the 1<sup>st</sup> quarter 2015 report, Uranerz mentioned wells NIC-052, NIC-046 and NIC-057 failed MIT and would be plugged, abandoned and reported as such in the 2<sup>nd</sup> quarter 2015 report. Also mentioned in the 1<sup>st</sup> quarter 2015 report, well NIC-034 was reported as having failed MIT. NIC-034 was abandoned during preparation of this report and will be included in the 3<sup>rd</sup> quarter 2015 report. As mentioned above in section 3.0, CL-053 failed MIT during the second quarter and is scheduled to be plugged and abandoned.



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.



Michael P. Thomas  
Vice President Regulatory and Public Affairs  
Uranerz Energy Corporation

**Table 4: Mechanical Integrity Tests**  
**WDEQ - Quarterly Report/2nd QTR 2015**  
**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	CK051	04/01/2015	PVC	591	570	180	164	16	04/01/2020	PASS
2	CS052	04/01/2015	PVC	602	580	180	166	14	04/01/2020	PASS
3	CU049	04/01/2015	PVC	590	570	180	171	9	04/01/2020	PASS
4	CP050	04/02/2015	PVC	604	590	180	169	11	04/02/2020	PASS
5	CU049B	04/02/2015	PVC	606	590	180	167	13	04/02/2020	PASS
6	CU051	04/02/2015	PVC	585	560	180	167	13	04/02/2020	PASS
7	CU051B	04/06/2015	PVC	601	580	180	167	13	04/06/2020	PASS
8	CV051	04/06/2015	PVC	568	550	180	165	15	04/06/2020	PASS
9	CV051B	04/06/2015	PVC	585	570	180	167	13	04/06/2020	PASS
10	CW052B	04/06/2015	PVC	566	550	180	169	11	04/06/2020	PASS
11	CI052	04/08/2015	PVC	583	560	180	166	14	04/08/2020	PASS
12	CJ049	04/08/2015	PVC	593	570	180	164	16	04/08/2020	PASS
13	CN044	04/08/2015	PVC	579	560	180	164	16	04/08/2020	PASS
14	CX058	04/08/2015	PVC	564	540	180	169	11	04/08/2020	PASS
15	CX053	04/09/2015	PVC	535	520	180	175	5	04/09/2020	PASS
16	CY052	04/09/2015	PVC	556	540	180	166	14	04/09/2020	PASS
17	CY054	04/09/2015	PVC	547	530	180	165	15	04/09/2020	PASS
18	CH053	04/13/2015	PVC	609	590	180	169	11	04/13/2020	PASS
19	CX055	04/13/2015	PVC	563	540	180	167	13	04/13/2020	PASS
20	CH054	04/14/2015	PVC	609	590	180	169	11	04/14/2020	PASS
21	CK052B	04/15/2015	PVC	594	570	180	174	6	04/15/2020	PASS
22	CM052	04/15/2015	PVC	636	610	180	163	17	04/15/2020	PASS
23	CM053	04/15/2015	PVC	629	610	180	169	11	04/15/2020	PASS
24	N1A-001	04/15/2015	PVC	550	530	180	173	7	04/15/2020	PASS
25	CF055	04/20/2015	PVC	600	580	180	171	9	04/20/2020	PASS
26	CT060	04/20/2015	PVC	582	560	180	172	8	04/20/2020	PASS
27	CV052	04/20/2015	PVC	576	560	180	165	15	04/20/2020	PASS

**Table 4: Mechanical Integrity Tests**  
**WDEQ - Quarterly Report/2nd QTR 2015**  
**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	CW067B	04/21/2015	PVC	544	520	180	164	16	04/21/2020	PASS
29	CX057	04/21/2015	PVC	569	550	180	172	8	04/21/2020	PASS
30	CZ056B	04/22/2015	PVC	525	510	180	170	10	04/22/2020	PASS
31	CX063	04/23/2015	PVC	559	540	180	168	12	04/23/2020	PASS
32	CZ055	04/23/2015	PVC	533	510	180	171	9	04/23/2020	PASS
33	CZ058	04/23/2015	PVC	533	510	180	164	16	04/23/2020	PASS
34	CZ060	04/23/2015	PVC	543	520	180	168	12	04/23/2020	PASS
35	DA057B	04/23/2015	PVC	526	510	180	170	10	04/23/2020	PASS
36	CR050	04/24/2015	PVC	590	570	180	167	13	04/24/2020	PASS
37	CR051	04/24/2015	PVC	613	590	180	170	10	04/24/2020	PASS
38	CM054	04/25/2015	PVC	649	630	180	174	6	04/25/2020	PASS
39	CS051	04/25/2015	PVC	593	580	180	165	15	04/25/2020	PASS
40	CV052	04/25/2015	PVC	576	560	180	166	14	04/25/2020	PASS
41	CL053	04/27/2015	PVC	612	580	180	0	180	04/27/2020	FAIL
42	CT049	04/27/2015	PVC	590	570	180	167	13	04/27/2020	PASS
43	CR054	04/28/2015	PVC	606	590	180	170	10	04/28/2020	PASS
44	CX058	04/28/2015	PVC	564	540	180	165	15	04/28/2020	PASS
45	CY058	04/28/2015	PVC	542	520	180	174	6	04/28/2020	PASS
46	CY058B	04/28/2015	PVC	559	540	180	171	9	04/28/2020	PASS
47	CY059	04/28/2015	PVC	553	530	180	168	12	04/28/2020	PASS
48	CJ053	04/29/2015	PVC	604	580	180	171	9	04/29/2020	PASS
49	CO046	04/29/2015	PVC	593	560	180	164	16	04/29/2020	PASS
50	CW053	04/29/2015	PVC	556	540	180	170	10	04/29/2020	PASS
51	CX061	04/29/2015	PVC	552	530	180	173	7	04/29/2020	PASS
52	CZ053	04/29/2015	PVC	533	510	180	170	10	04/29/2020	PASS
53	CK051	05/04/2015	PVC	591	570	180	163	17	05/04/2020	PASS
54	CP046	05/04/2015	PVC	613	590	180	172	8	05/04/2020	PASS

**Table 4: Mechanical Integrity Tests**  
**WDEQ - Quarterly Report/2nd QTR 2015**  
**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	CQ047	05/04/2015	PVC	616	580	180	173	7	05/04/2020	PASS
56	CW052C	05/04/2015	PVC	547	530	180	174	6	05/04/2020	PASS
57	CW062	05/05/2015	PVC	563	540	180	173	7	05/05/2020	PASS
58	CY056	05/05/2015	PVC	561	540	180	164	16	05/05/2020	PASS
59	CS059	05/07/2015	PVC	592	570	180	168	12	05/07/2020	PASS
60	CV067	05/07/2015	PVC	557	540	180	170	10	05/07/2020	PASS
61	CZ056C	05/07/2015	PVC	542	520	180	168	12	05/07/2020	PASS
62	CI053	05/12/2015	PVC	586	570	180	164	16	05/12/2020	PASS
63	CL053B	05/12/2015	PVC	607	590	180	172	8	05/12/2020	PASS
64	CV064	05/12/2015	PVC	566	540	180	164	16	05/12/2020	PASS
65	CV066	05/12/2015	PVC	541	520	180	167	13	05/12/2020	PASS
66	CU059	05/13/2015	PVC	577	560	180	164	16	05/13/2020	PASS
67	CW064	05/13/2015	PVC	556	540	180	163	17	05/13/2020	PASS
68	CX065	05/13/2015	PVC	550	530	180	169	11	05/13/2020	PASS
69	CV063	05/14/2015	PVC	562	540	180	171	9	05/14/2020	PASS
70	CZ063	05/14/2015	PVC	524	510	180	169	11	05/14/2020	PASS
71	DA060	05/14/2015	PVC	519	500	180	164	16	05/14/2020	PASS
72	DA061B	05/14/2015	PVC	525	510	180	166	14	05/14/2020	PASS
73	CO046	05/20/2015	PVC	593	560	180	165	15	05/20/2020	PASS
74	DB065	05/20/2015	PVC	513	490	180	171	9	05/20/2020	PASS
75	DA062	05/21/2015	PVC	522	500	180	176	4	05/21/2020	PASS
76	DA065	05/21/2015	PVC	518	500	180	169	11	05/21/2020	PASS
77	DB064	05/21/2015	PVC	517	500	180	166	14	05/21/2020	PASS
78	CX058	06/16/2015	PVC	564	540	180	166	14	06/16/2020	PASS
79	CO048	06/17/2015	PVC	601	580	180	164	16	06/17/2020	PASS
80	CP050	06/17/2015	PVC	604	580	180	165	15	06/17/2020	PASS
81	CO046	06/18/2015	PVC	593	560	180	164	16	06/18/2020	PASS

**Table 4: Mechanical Integrity Tests**  
**WDEQ - Quarterly Report/2nd QTR 2015**  
**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	CP046	06/18/2015	PVC	613	590	180	167	13	06/18/2020	PASS

**Table 5: Defective Well Status Nichols  
Ranch ISR Project- 2nd Quarter 2015  
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	N1C-032	12/18/2014	Abandoned	04/15/2015	678	5	664	567
2	N1C-046	01/21/2015	Abandoned	05/25/2015	702	5	688	587
3	N1C-052	01/16/2015	Abandoned	06/11/2015	718	5	704	607
4	N1C-054-1	12/08/2014	Abandoned	04/02/2015	690	5	676	577
5	N1C-057	01/22/2015	Abandoned	05/25/2015	688	5	674	607

# Appendix A

Production Area 1 Well ID MON-01		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 2nd QTR 2015	
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>					
04/08/2015	7	514	114	7.9	4,640.8
04/23/2015	7	487	113	8.2	4,640.7
05/12/2015	7	554	112	8.0	4,640.8
05/26/2015	7	562	113	7.8	4,641.2
06/08/2015	7	578	114	7.6	4,641.4
06/24/2015	7	558	114	8.2	4,641.2

\*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 2nd QTR 2015	
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

04/08/2015	6	525	114	8.2	4,647.8
04/29/2015	7	510	113	8.3	4,646.3
05/12/2015	7	554	112	8.2	4,647.2
05/28/2015	7	543	114	8.0	4,647.1
06/09/2015	7	566	113	7.9	4,647.5
06/23/2015	7	553	112	8.2	4,647.2

\*Value Exceeds Upper Control Limit



Production Area 1 Well ID MON-03		<b>Uranerz Energy Corporation</b> <b>Nichols Ranch</b> <b>PERIMETER, OVER AND UNDER</b> <b>MONITOR WELLS</b>		Quarterly Report 2nd QTR 2015	
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

04/09/2015	7	527	114	8.1	4,647.4
04/29/2015	7	548	115	8.0	4,647.5
05/12/2015	6	554	112	8.0	4,647.8
05/26/2015	6	565	112	7.8	4,647.5
06/09/2015	6	558	111	7.7	4,647.5
06/24/2015	6	560	112	8.0	4,648.3

\*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 2nd QTR 2015	
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

04/09/2015	7	506	113	8.6	4,653.5
04/23/2015	7	501	113	8.2	4,652.6
05/12/2015	7	530	110	8.4	4,653.3
05/27/2015	7	546	112	8.3	4,653.5
06/09/2015	7	532	111	8.1	4,654.4
06/23/2015	6	534	113	7.9	4,653.6

\*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 2nd QTR 2015	
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>					
04/09/2015	7	542	111	8.8	4,654.2
04/23/2015	7	542	112	8.6	4,654.4
05/13/2015	7	554	110	8.5	4,654.8
05/27/2015	7	584	111	8.7	4,655.3
06/10/2015	6	576	110	8.6	4,655.5
06/23/2015	7	575	111	8.3	4,655.6

\*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 2nd QTR 2015	
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

04/13/2015	7	567	115	8.3	4,654.9
04/29/2015	7	569	114	8.2	4,655.6
05/13/2015	7	575	113	8.3	4,656.0
05/26/2015	7	574	114	8.1	4,656.8
06/10/2015	7	573	114	8.0	4,656.8
06/22/2015	7	568	113	8.0	4,660.9

\*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 2nd QTR 2015	
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

04/13/2015	7	572	114	8.5	4,656.0
04/29/2015	7	567	114	8.2	4,656.4
05/12/2015	7	539	110	8.3	4,656.9
05/26/2015	7	578	113	8.3	4,657.9
06/10/2015	7	578	114	8.3	4,657.9
06/23/2015	7	578	115	8.2	4,657.6

\*Value Exceeds Upper Control Limit

Production Area 1		Uranerz Energy Corporation		Quarterly Report	
Well ID MON-08		Nichols Ranch		2nd QTR 2015	
PERIMETER, OVER AND UNDER MONITOR WELLS					
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

04/09/2015	7	520	111	8.4	4,659.5
04/22/2015	6	500	111	8.4	4,660.4
05/12/2015	7	564	110	8.3	4,661.1
05/27/2015	7	563	111	8.1	4,661.9
06/09/2015	7	578	111	8.3	4,662.4
06/22/2015	7	571	110	8.5	4,662.1

\*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-09		<b>Uranerz Energy Corporation</b> <b>Nichols Ranch</b> <b>PERIMETER, OVER AND UNDER</b> <b>MONITOR WELLS</b>		Quarterly Report 2nd QTR 2015	
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

04/09/2015	7	542	116	8.1	4,661.4
04/22/2015	6	539	115	8.2	4,662.9
05/12/2015	6	570	114	7.9	4,664.6
05/27/2015	7	576	113	7.8	4,665.4
06/09/2015	7	579	113	7.9	4,665.7
06/22/2015	7	579	112	7.9	4,665.4

\*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-10		<b>Uranerz Energy Corporation</b> <b>Nichols Ranch</b> <b>PERIMETER, OVER AND UNDER</b> <b>MONITOR WELLS</b>		Quarterly Report 2nd QTR 2015	
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>					
04/08/2015	7	559	112	7.9	4,663.7
04/22/2015	7	563	111	8.1	4,665.0
05/07/2015	7	538	110	7.9	4,667.4
05/19/2015	7	570	108	8.1	4,668.0
06/03/2015	7	587	106	7.7	4,668.7
06/16/2015	7	588	109	8.1	4,668.2

\*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 2nd QTR 2015	
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>					
04/08/2015	6	771 *	103	7.9	4,664.4
04/21/2015	6	750 *	105	7.9	4,665.1
05/07/2015	6	757 *	100	7.8	4,668.4
05/20/2015	6	797 *	100	8.0	4,669.1
06/03/2015	6	786 *	102	7.7	4,669.9
06/16/2015	6	793 *	102	7.7	4,669.6

\*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 2nd QTR 2015	
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

04/07/2015	6	624	108	8.0	4,666.0
04/22/2015	6	633	109	7.9	4,666.2
05/06/2015	6	623	108	7.6	4,668.4
05/21/2015	7	594	108	8.0	4,669.5
06/08/2015	7	656	109	7.2	4,670.1
06/17/2015	7	618	107	7.8	4,670.0

\*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 2nd QTR 2015	
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

04/07/2015	7	563	114	8.2	4,666.7
04/21/2015	6	568	113	8.1	4,664.2
05/07/2015	7	572	115	7.9	4,665.3
05/19/2015	7	571	112	7.7	4,669.0
06/03/2015	6	593	113	7.6	4,669.7
06/17/2015	7	581	111	8.0	4,669.6

\*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 2nd QTR 2015	
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>					
04/01/2015	6	530	116	8.6	4,543.1
04/14/2015	7	541	117	8.5	4,546.9
05/04/2015	7	541	115	8.5	4,550.8
05/18/2015	7	559	115	8.3	4,543.0
06/01/2015	7	560	116	8.2	4,541.4
06/15/2015	7	562	114	8.2	4,542.2

\*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-02-2		<b>Uranerz Energy Corporation</b> <b>Nichols Ranch</b> <b>PERIMETER, OVER AND UNDER</b> <b>MONITOR WELLS</b>		Quarterly Report 2nd QTR 2015	
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

04/01/2015	7	547	119	8.5	4,562.3
04/14/2015	8	560	116	8.1	4,572.8
05/04/2015	8	567	115	8.4	4,568.6
05/18/2015	7	576	113	8.1	4,574.1
06/01/2015	7	579	115	7.9	4,572.2
06/15/2015	7	584	112	8.0	4,569.7

\*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 2nd QTR 2015	
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>					
04/01/2015	7	557	113	8.5	4,567.6
04/14/2015	8	566	114	8.2	4,563.8
05/04/2015	8	574	112	8.5	4,565.6
05/18/2015	8	584	115	8.2	4,565.0
06/01/2015	8	586	113	8.2	4,561.6
06/15/2015	7	590	111	8.1	4,562.2

\*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 2nd QTR 2015	
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

04/01/2015	7	564	112	8.6	4,585.3
04/14/2015	7	567	114	8.0	4,579.3
05/04/2015	7	577	111	8.3	4,579.9
05/18/2015	7	587	112	8.2	4,585.1
06/01/2015	8	586	114	8.2	4,575.6
06/15/2015	7	588	110	8.2	4,578.1

\*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 2nd QTR 2015	
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

04/01/2015	7	527	111	8.6	4,607.8
04/14/2015	7	544	108	8.6	4,599.0
05/04/2015	8	574	107	8.3	4,597.0
05/18/2015	7	578	111	8.1	4,600.7
06/01/2015	8	582	107	8.2	4,588.4
06/15/2015	7	570	107	8.1	4,590.4

\*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 2nd QTR 2015	
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

04/01/2015	7	553	111	8.6	4,616.3
04/14/2015	7	564	112	8.2	4,611.5
05/04/2015	8	581	109	8.4	4,607.4
05/18/2015	7	584	111	8.2	4,609.1
06/01/2015	8	589	107	8.3	4,589.8
06/15/2015	7	588	105	8.2	4,593.4

\*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 2nd QTR 2015	
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

04/02/2015	7	565	111	8.4	4,621.2
04/14/2015	7	564	114	8.1	4,620.8
05/07/2015	7	581	112	8.1	4,613.1
05/19/2015	7	588	113	8.1	4,616.1
06/01/2015	7	599	115	8.0	4,595.8
06/15/2015	7	593	111	8.0	4,597.0

\*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 2nd QTR 2015	
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

04/06/2015	7	552	113	8.3	4,629.8
04/20/2015	7	527	113	8.3	4,628.3
05/05/2015	7	576	110	8.3	4,617.7
05/18/2015	7	589	111	8.3	4,631.1
06/01/2015	7	600	113	8.0	4,617.7
06/15/2015	7	599	111	8.2	4,600.8

\*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 2nd QTR 2015	
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>					
04/06/2015	7	577	112	8.3	4,634.2
04/20/2015	7	560	113	8.1	4,632.1
05/05/2015	7	587	111	8.2	4,624.2
05/18/2015	7	595	108	8.1	4,634.3
06/01/2015	7	601	109	8.1	4,634.5
06/15/2015	7	601	112	7.9	4,613.8

\*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 2nd QTR 2015	
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

04/06/2015	7	574	111	7.9	4,637.6
04/20/2015	7	557	112	8.0	4,636.5
05/05/2015	7	583	109	8.1	4,628.8
05/18/2015	7	591	110	8.0	4,635.1
06/01/2015	8	595	113	8.0	4,651.4
06/15/2015	6	599	112	7.9	4,634.3

\*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-11		<b>Uranerz Energy Corporation</b> <b>Nichols Ranch</b> <b>PERIMETER, OVER AND UNDER</b> <b>MONITOR WELLS</b>		Quarterly Report 2nd QTR 2015	
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

04/06/2015	7	581	107	8.4	4,642.5
04/20/2015	7	567	106	8.0	4,640.8
05/05/2015	7	585	105	8.4	4,636.8
05/18/2015	7	591	107	8.1	4,638.9
06/01/2015	8	594	103	8.6	4,652.3
06/15/2015	8	600	101	8.0	4,644.8

\*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 2nd QTR 2015	
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

04/06/2015	7	583	116	8.1	4,646.9
04/20/2015	7	569	116	7.9	4,645.6
05/05/2015	7	583	114	8.1	4,643.1
05/18/2015	7	590	115	8.0	4,643.2
06/01/2015	7	596	116	8.4	4,653.6
06/15/2015	7	600	108	7.9	4,651.4

\*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 2nd QTR 2015	
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>					
04/06/2015	6	587	118	8.0	4,651.4
04/20/2015	6	572	118	7.9	4,650.2
05/05/2015	7	606	118	8.0	4,648.3
05/18/2015	7	598	117	8.0	4,644.7
06/01/2015	8	599	118	8.5	4,655.3
06/15/2015	6	607	115	7.9	4,656.5

\*Value Exceeds Upper Control Limit



Production Area 1 Well ID MRN-14		<b>Uranerz Energy Corporation</b> <b>Nichols Ranch</b> <b>PERIMETER, OVER AND UNDER</b> <b>MONITOR WELLS</b>		Quarterly Report 2nd QTR 2015	
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

04/06/2015	7	590	118	8.0	4,654.7
04/20/2015	7	574	118	8.0	4,653.7
05/05/2015	7	606	117	8.1	4,651.9
05/18/2015	7	598	118	8.3	4,651.1
06/01/2015	7	600	118	8.5	4,656.9
06/15/2015	7	609	116	7.9	4,659.5

\*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 2nd QTR 2015	
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

04/06/2015	6	582	122	7.9	4,654.1
04/20/2015	6	563	112	7.9	4,653.3
05/06/2015	7	575	121	8.3	4,651.4
05/18/2015	7	588	121	8.0	4,650.7
06/03/2015	6	565	119	8.0	4,659.3
06/15/2015	6	597	119	7.8	4,660.6

\*Value Exceeds Upper Control Limit

Production Area 1		Uranerz Energy Corporation		Quarterly Report	
Well ID MRN-16		Nichols Ranch		2nd QTR 2015	
PERIMETER, OVER AND UNDER MONITOR WELLS					
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

04/07/2015	6	523	120	7.9	4,659.9
04/21/2015	6	527	121	8.2	4,656.4
05/06/2015	6	569	118	8.0	4,655.2
05/19/2015	6	563	118	8.1	4,653.9
06/03/2015	6	572	118	7.6	4,661.2
06/15/2015	6	588	119	7.8	4,664.1

\*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 2nd QTR 2015	
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

04/07/2015	6	526	122	7.9	4,659.5
04/21/2015	6	532	121	7.9	4,656.9
05/06/2015	6	552	120	8.1	4,657.4
05/19/2015	7	545	120	8.0	4,656.1
06/03/2015	6	557	120	7.7	4,660.2
06/16/2015	7	572	119	7.8	4,660.0

\*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 2nd QTR 2015	
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

04/07/2015	7	539	118	7.9	4,655.9
04/21/2015	6	550	119	8.0	4,652.4
05/06/2015	7	560	117	8.1	4,650.9
05/19/2015	7	551	116	8.0	4,649.5
06/02/2015	6	562	117	8.3	4,656.6
06/16/2015	7	566	117	8.1	4,657.0

\*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 2nd QTR 2015	
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

04/07/2015	7	520	118	8.2	4,652.2
04/21/2015	7	528	119	8.3	4,651.9
05/07/2015	7	538	117	8.4	4,649.7
05/19/2015	6	541	117	8.2	4,648.6
06/02/2015	7	548	118	8.5	4,655.4
06/16/2015	8	563	118	7.9	4,657.2

\*Value Exceeds Upper Control Limit

Production Area 1		Uranerz Energy Corporation		Quarterly Report	
Well ID MRN-21		Nichols Ranch		2nd QTR 2015	
PERIMETER, OVER AND UNDER MONITOR WELLS					
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

04/07/2015	7	526	117	8.5	4,650.6
04/22/2015	6	529	109	8.0	4,649.0
05/06/2015	7	548	116	7.9	4,649.1
05/21/2015	7	512	116	7.9	4,645.7
06/08/2015	7	575	117	7.6	4,658.1
06/17/2015	7	549	116	7.9	4,653.5

\*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 2nd QTR 2015	
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>					
04/08/2015	7	532	117	8.2	4,646.2
04/21/2015	7	530	116	8.3	4,645.3
05/06/2015	7	545	115	8.3	4,643.0
05/19/2015	7	540	113	8.2	4,640.7
06/02/2015	7	549	116	8.5	4,654.4
06/16/2015	8	562	118	7.9	4,652.3

\*Value Exceeds Upper Control Limit



Production Area 1 Well ID MRN-23		<b>Uranerz Energy Corporation</b> <b>Nichols Ranch</b> <b>PERIMETER, OVER AND UNDER</b> <b>MONITOR WELLS</b>		Quarterly Report 2nd QTR 2015	
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>					
04/08/2015	7	536	119	8.0	4,643.2
04/21/2015	7	541	118	8.1	4,641.6
05/07/2015	6	546	118	8.1	4,636.5
05/19/2015	6	543	116	8.1	4,635.5
06/02/2015	7	555	116	8.4	4,658.3
06/16/2015	8	567	117	7.8	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 2nd QTR 2015	
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

04/06/2015	6	554	121	8.5	4,639.9
04/20/2015	6	537	120	7.9	4,638.0
05/12/2015	6	557	118	8.3	4,632.6
05/26/2015	6	565	118	8.0	4,643.5
06/08/2015	7	579	118	8.0	4,653.9
06/22/2015	7	555	118	8.1	4,639.3

\*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-25		<b>Uranerz Energy Corporation</b> <b>Nichols Ranch</b> <b>PERIMETER, OVER AND UNDER</b> <b>MONITOR WELLS</b>		Quarterly Report 2nd QTR 2015	
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

04/06/2015	6	553	118	8.8	4,633.8
04/20/2015	6	538	118	8.2	4,631.8
05/07/2015	7	546	116	8.2	4,620.5
05/20/2015	7	532	114	8.3	4,618.7
06/02/2015	7	532	117	8.5	4,639.0
06/18/2015	6	567	117	7.9	4,620.7

\*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 2nd QTR 2015	
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

04/06/2015	6	530	124	8.8	4,627.3
04/20/2015	6	517	123	8.4	4,625.0
05/07/2015	7	522	123	8.4	4,616.0
05/20/2015	7	529	122	8.1	4,609.8
06/02/2015	7	527	122	8.5	4,612.1
06/16/2015	7	543	121	7.9	4,607.0

\*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 2nd QTR 2015	
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

04/06/2015	6	548	121	8.6	4,622.1
04/20/2015	6	532	121	8.2	4,619.7
05/06/2015	6	545	119	8.0	4,613.2
05/19/2015	6	536	118	8.0	4,609.8
06/02/2015	6	549	117	7.9	4,595.6
06/18/2015	6	532	118	7.9	4,598.6

\*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 2nd QTR 2015	
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

04/06/2015	6	549	119	8.6	4,615.0
04/20/2015	7	533	118	8.2	4,613.2
05/06/2015	7	546	117	8.2	4,606.7
05/19/2015	6	537	115	8.2	4,600.9
06/02/2015	6	548	116	8.1	4,589.9
06/18/2015	7	548	115	7.9	4,603.7

\*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 2nd QTR 2015	
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

04/06/2015	7	545	118	8.5	4,605.1
04/20/2015	7	530	118	8.2	4,603.2
05/07/2015	6	535	117	8.1	4,598.4
05/19/2015	7	532	117	8.1	4,590.7
06/02/2015	6	543	116	8.2	4,580.4
06/18/2015	6	547	117	7.9	4,602.4

\*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 2nd QTR 2015	
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

04/06/2015	6	538	119	8.6	4,588.9
04/20/2015	6	523	120	8.2	4,585.9
05/06/2015	6	539	120	8.2	4,582.8
05/19/2015	6	527	117	8.2	4,579.9
06/02/2015	6	535	117	8.1	4,572.3
06/18/2015	7	542	117	8.0	4,584.4

\*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 2nd QTR 2015	
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

04/02/2015	7	505	122	8.8	4,597.0
04/15/2015	7	498	122	8.6	4,596.4
05/07/2015	6	519	120	8.4	4,595.9
05/20/2015	6	526	117	8.3	4,589.0
06/03/2015	7	533	120	8.3	4,581.1
06/18/2015	6	533	118	8.2	4,585.4

\*Value Exceeds Upper Control Limit

Production Area 1		Uranerz Energy Corporation		Quarterly Report	
Well ID MRN-32		Nichols Ranch		2nd QTR 2015	
PERIMETER, OVER AND UNDER MONITOR WELLS					
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

04/02/2015	6	500	120	8.6	4,595.3
04/15/2015	6	509	120	8.2	4,601.6
05/07/2015	6	519	118	8.3	4,596.1
05/20/2015	7	534	117	8.0	4,593.5
06/03/2015	6	536	117	8.1	4,580.3
06/17/2015	6	532	117	8.3	4,615.3

\*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 2nd QTR 2015	
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

04/02/2015	6	508	118	8.9	4,593.0
04/15/2015	7	517	119	8.3	4,604.3
05/07/2015	6	525	117	8.4	4,600.2
05/20/2015	7	544	116	8.3	4,597.1
06/03/2015	7	541	116	8.3	4,584.3
06/17/2015	7	542	115	8.4	4,591.5

\*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 2nd QTR 2015	
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>					
04/02/2015	7	523	115	8.5	4,592.5
04/15/2015	7	530	114	8.1	4,601.1
05/07/2015	7	538	113	8.4	4,599.7
05/18/2015	7	552	114	8.2	4,594.6
06/03/2015	7	556	115	8.1	4,590.0
06/17/2015	7	554	115	8.0	4,565.8

\*Value Exceeds Upper Control Limit

Production Area 1		Uranerz Energy Corporation		Quarterly Report	
Well ID MUN-01-1		Nichols Ranch		2nd QTR 2015	
PERIMETER, OVER AND UNDER MONITOR WELLS					
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

04/08/2015	6	383	199	8.5	4,632.3
04/23/2015	5	373	199	8.4	4,631.7
05/12/2015	6	402	195	8.4	4,631.8
05/26/2015	6	412	196	8.4	4,631.4
06/08/2015	5	408	196	8.3	4,631.2
06/24/2015	5	401	195	8.3	4,629.9

\*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 2nd QTR 2015	
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

04/08/2015	5	389	201	8.6	4,630.6
04/23/2015	5	384	201	8.2	4,630.3
05/12/2015	6	407	198	8.5	4,630.2
05/28/2015	5	399	200	8.5	4,630.0
06/09/2015	5	413	198	8.4	4,630.0
06/23/2015	5	409	202	8.1	4,629.8

\*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 2nd QTR 2015	
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

04/09/2015	6	377	197	8.5	4,630.5
04/29/2015	6	398	196	8.2	4,630.5
05/12/2015	6	398	192	8.4	4,630.1
05/26/2015	5	407	195	8.4	4,630.3
06/09/2015	6	402	194	8.3	4,629.7
06/24/2015	5	399	195	8.3	4,628.7

\*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 2nd QTR 2015	
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

04/09/2015	5	418	219	8.5	4,631.0
04/23/2015	5	415	218	8.0	4,630.8
05/12/2015	5	437	218	8.4	4,630.9
05/27/2015	5	443	216	8.4	4,630.2
06/09/2015	4	435	218	8.2	4,629.8
06/23/2015	4	441	217	7.9	4,629.5

\*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 2nd QTR 2015	
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>					
04/09/2015	6	380	194	8.6	4,649.6
04/23/2015	5	378	195	8.3	4,631.6
05/13/2015	5	386	191	8.3	4,630.4
05/27/2015	5	404	194	8.5	4,630.4
06/10/2015	5	399	194	8.4	4,629.5
06/23/2015	5	397	194	8.1	4,629.6

\*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-06		<b>Uranerz Energy Corporation</b> <b>Nichols Ranch</b> <b>PERIMETER, OVER AND UNDER</b> <b>MONITOR WELLS</b>		Quarterly Report 2nd QTR 2015	
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

04/13/2015	5	383	193	8.5	4,631.1
04/29/2015	6	395	194	8.4	4,631.1
05/13/2015	5	385	191	8.5	4,630.3
05/26/2015	6	398	192	8.1	4,630.7
06/10/2015	5	398	185	8.1	4,629.5
06/22/2015	5	381	192	8.1	4,630.0

\*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 2nd QTR 2015	
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

04/13/2015	6	395	179	8.8	4,640.1
04/29/2015	6	387	178	8.2	4,630.9
05/12/2015	5	385	173	8.3	4,631.2
05/28/2015	5	367	173	8.3	4,629.1
06/09/2015	6	398	169	8.2	4,629.5
06/23/2015	5	385	174	8.4	4,625.3

\*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 2nd QTR 2015	
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

04/09/2015	5	358	177	8.2	4,632.6
04/22/2015	5	357	178	8.3	4,632.2
05/12/2015	6	373	175	8.3	4,632.0
05/27/2015	5	383	177	8.6	4,632.1
06/09/2015	5	381	177	8.4	4,631.4
06/22/2015	6	380	176	8.1	4,624.6


\*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-09		<b>Uranerz Energy Corporation</b> <b>Nichols Ranch</b> <b>PERIMETER, OVER AND UNDER</b> <b>MONITOR WELLS</b>		Quarterly Report 2nd QTR 2015	
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

04/09/2015	6	387	183	8.5	4,633.7
04/22/2015	5	384	185	8.5	4,633.6
05/12/2015	6	399	180	8.4	4,633.1
05/27/2015	6	411	183	8.3	4,632.8
06/09/2015	6	408	183	8.5	4,632.8
06/22/2015	6	409	184	8.6	4,632.2

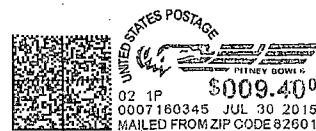
\*Value Exceeds Upper Control Limit

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