



January 28, 2015

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

Attn: Document Control Desk
Director
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U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Deputy Director
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Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Protection
Mail Stop T-8F5
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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.

Sincerely,



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

MT/th

Attachments
4th Quarter 2014 Report

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



4th Quarter 2014 Report

Nichols Ranch ISR Project
WDEQ-LQD Permit to Mine No. 778
and
NRC License SUA-1597

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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	6
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	5
Table 3: Wellfield Weekly Flow Volumes Production Area #1.....	5
Table 4: Mechanical Integrity Tests	8
Table 5: Defective Well Status.....	9

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 4.
- Delineation drilling slowed in PA#1 during the 4th quarter. The drill holes provide additional information for production activities. Per WDEQ-LQD letter dated September 25, 2014, a periodic report for proposed rollover of delineation drilling will be submitted to the WDEQ-LQD summarizing the drilling activities, current bond liability and bond remaining. Uranerz submitted a letter on December 4, 2014 for the roll over of 60 drill holes.
- New well installation did occur during the quarter. Well completion details are available at the mine site and are provided in the annual report to the WDEQ-LQD.

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 pends approval. Approval has been delayed due to the BLM Section 106 consultation process which must be completed in order to approve the EA.

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 October, November and December 2014 based on a grab sample collected during each month and submitted to a third party laboratory for analysis.

Table 1: Injection Fluid Composition				
Parameter	Permit Value Range	October 2014	November 2014	December 2014
Calcium (mg/L)	20-500	115	138	128
Chloride (mg/L)	200-5000	163	168	113
Carbonate as CO ₃ (mg/L)	1-2500	18	31	Non Detect
Bicarbonate as HCO ₃ (mg/L)	400-5000	1140	1200	1030
Potassium (mg/L)	15-300	9	11	10
Magnesium (mg/L)	3-100	12	16	15
Manganese (mg/L)	0.01-50	0.16	0.20	0.22
Sodium (mg/L)	400-6000	503	558	492
Sulfate (mg/L)	400-5000	231	218	344
TDS @ 180 (mg/L)	1500-12000	1610 *	1540	1640
U ₃ O ₈ (mg/L)	0.01-500	0.28	0.37	0.24
V ₂ O ₅ (mg/L)	0.01-100	0.44	0.47	0.49

* Because of an offsite laboratory error, TDS was not analyzed and the sample was disposed of before the error was found. This value represents a calculated TDS.

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 header houses 1 through 4.

Table 2 is a tabulation of the maximum weekly injection pressures. 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. It can be seen that during the week of November 16, 2014 it appears the pressure was exceeded. However, on November 13, 2014 a transmitter froze due to below freezing temperatures causing erroneous values. Corrective action was taken by moving the transmitter indoors to prevent freezing.

Week Ending	Header House 1	Header House 2	Header House 3	Header House 4
October 05, 2014	137	83	114	85
October 12, 2014	136	92	113	97
October 19, 2014	136	88	119	140
October 26, 2014	136	70	118	108
November 02, 2014	139	110	125	118
November 09, 2014	139	69	118	112
November 16, 2014	551	105	140	118
November 23, 2014	138	63	114	109
November 30, 2014	134	53	105	95
December 07, 2014	137	93	103	122
December 14, 2014	141	96	112	136
December 21, 2014	140	90	113	141
December 28, 2014	139	90	109	135

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 1.2%.

Production Area #1				
Week Ending	Recovery (gallons)	Injection (gallons)	Bleed (gallons)	% Bleed
October 05, 2014	13,568,950	13,484,550	165,279	1.2%
October 12, 2014	13,591,200	13,482,950	168,238	1.2%
October 19, 2014	13,141,600	13,018,250	167,560	1.0%
October 26, 2014	13,870,150	13,737,850	172,608	1.2%
November 02, 2014	13,602,950	13,477,700	171,984	1.3%
November 09, 2014	13,891,000	13,775,050	170,363	1.2%
November 16, 2014	11,779,500	11,686,450	144,907	1.2%
November 23, 2014	14,192,900	14,089,550	149,061	1.1%
November 30, 2014	14,295,850	14,166,500	143,536	1.0%
December 07, 2014	13,872,500	13,698,500	190,065	1.4%
December 14, 2014	13,953,450	13,749,450	253,236	1.8%
December 21, 2014	13,664,150	13,476,700	205,273	1.5%
December 28, 2014	13,997,700	13,853,100	174,920	1.2%
Totals	149,760,050	148,366,800	1,896,837	1.2 %

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 ring, overlying and underlying monitor wells were sampled. Results for each well have been tabulated and are enclosed in Appendix A. During the month of October, there were MON, MUN and MRN wells that had low alkalinity results reported. The alkalinity results were due to laboratory error which was corrected. Subsequent samples analyzed for alkalinity were consistent with previous analytical data. In addition significant water level fluctuations were recognized. The water level variations were the result of wellfield balancing and start-up conditions.

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.

Twenty-four (24) 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. Two wells failed MIT, N1C-054-1 and N1C-032. Both wells are scheduled for plug and abandonment in the next 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

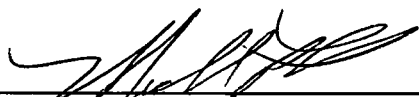
Per Chapter 11, Section 8(c), a well lacking mechanical integrity must be plugged if it cannot be repaired. As mentioned above in Section 3.0, wells N1C-054-1 and N1C-032 failed MIT this quarter and are scheduled for abandonment in the next report period. Well N1A-060, referenced in the 2nd

Quarter report was abandoned. In addition, wells N1B-010 and N1B-095, referenced in the 3rd Quarter report were also abandoned during this quarter.

Plug 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/4th QTR
2014 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	N1A-054	10/02/2014	PVC	556	520	180	169	11	10/02/2019	PASS
2	N1B-017	10/07/2014	PVC	551	530	180	169	11	10/07/2019	PASS
3	N1B-067	10/07/2014	PVC	610	550	180	173	7	10/07/2019	PASS
4	N1A-021	10/08/2014	PVC	593	570	180	166	14	10/08/2019	PASS
5	N1A-020-1	10/20/2014	PVC	597	580	180	171	9	10/20/2019	PASS
6	N1A-041-1	10/20/2014	PVC	557	540	180	167	13	10/20/2019	PASS
7	N1B-010-1	10/27/2014	PVC	638	620	180	169	11	10/27/2019	PASS
8	N1B-095-1	10/28/2014	PVC	641	620	180	164	16	10/28/2019	PASS
9	N1A-060-1	10/29/2014	PVC	551	530	180	170	10	10/29/2019	PASS
10	N1B-089-1	10/29/2014	PVC	633	610	180	168	12	10/29/2019	PASS
11	N1C-048-1	12/01/2014	PVC	641	620	180	166	14	12/01/2019	PASS
12	N1C-054-1	12/08/2014	PVC	628	610	180	0	180	12/08/2019	FAIL
13	N1C-026	12/09/2014	PVC	605	580	180	173	7	12/09/2019	PASS
14	N1C-049	12/09/2014	PVC	636	610	180	167	13	12/09/2019	PASS
15	N1C-050	12/09/2014	PVC	627	610	180	167	13	12/09/2019	PASS
16	N1C-059-1	12/15/2014	PVC	627	600	180	169	11	12/15/2019	PASS
17	MON-03	12/17/2014	PVC	392	370	180	165	15	12/17/2019	PASS
18	N1C-027	12/17/2014	PVC	635	610	180	169	11	12/17/2019	PASS
19	N1C-001	12/18/2014	PVC	669	650	180	171	9	12/18/2019	PASS
20	N1C-032	12/18/2014	PVC	618	600	180	161	19	12/18/2019	FAIL
21	N1C-030	12/22/2014	PVC	616	600	180	168	12	12/22/2019	PASS
22	N1C-025	12/23/2014	PVC	634	610	180	166	14	12/23/2019	PASS
23	N1C-028	12/23/2014	PVC	629	610	180	170	10	12/23/2019	PASS
24	N1C-033	12/23/2014	PVC	644	620	180	164	16	12/23/2019	PASS

**Table 5: Defective Well Status
Nichols Ranch ISR Project- 4th Quarter
2014 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	N1A-060	06/10/2014	Abandoned	10/06/2014	600	5	588	504
2	N1B-010	07/08/2014	Abandoned	09/30/2014	670	5	657	572
3	N1B-095	07/16/2014	Abandoned	10/07/2014	688	5	674	580

Appendix A

Production Area 1 Well ID MON-01	Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS			Quarterly Report 4th QTR 2014	
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>					
10/14/2014	7	500	115	8.1	4,640.9
10/27/2014	7	495	114	8.1	4,644.9
11/12/2014	7	519	116	7.9	4,645.0
11/24/2014	7	512	114	8.0	4,644.9
12/08/2014	6	533	114	8.2	4,644.2
12/30/2014	8	542	114	8.6	4,639.0

*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 4th QTR 2014	
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>					
10/14/2014	7	502	64	8.4	4,639.8
10/28/2014	6	526	113	8.3	4,650.5
11/13/2014	7	514	114	8.4	4,660.8
11/25/2014	7	533	114	8.2	4,650.5
12/08/2014	6	535	114	8.2	4,650.3
12/31/2014	8	520	115	8.5	4,650.8

*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 4th QTR 2014	
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>					
10/14/2014	6	526	62	8.3	4,653.4
10/28/2014	6	525	115	8.1	4,652.3
11/13/2014	7	540	114	8.4	4,637.6
11/25/2014	7	529	114	8.1	4,652.4
12/08/2014	6	534	115	8.0	4,652.0
12/31/2014	7	504	135	7.9	4,651.9

*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 4th QTR 2014	
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>						
10/13/2014	7	493	124	8.5	4,657.4	
10/27/2014	7	498	112	8.3	4,657.3	
11/11/2014	7	503	111	8.4	4,657.6	
11/25/2014	7	515	113	8.2	4,656.9	
12/09/2014	7	495	113	8.3	4,650.8	
12/23/2014	6	530	122	8.5	4,657.2	

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-05		Urinerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 4th QTR 2014	
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					
10/14/2014	7	555	75	8.7	4,657.5
10/27/2014	7	536	110	8.5	4,657.8
11/13/2014	6	547	110	8.5	4,658.7
11/25/2014	7	549	111	8.5	4,657.6
12/09/2014	6	505	111	8.7	4,657.2
12/29/2014	7	560	111	8.8	4,657.1

*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 4th QTR 2014	
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>					
10/13/2014	7	531	137	8.4	4,659.0
10/27/2014	7	552	114	8.3	4,659.2
11/12/2014	7	543	114	8.1	4,658.9
11/24/2014	7	519	115	8.2	4,658.8
12/08/2014	7	549	114	8.5	4,655.0
12/22/2014	7	568	121	8.5	4,655.1

*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 4th QTR 2014	
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>					
10/09/2014	7	569	63	8.7	4,660.7
10/23/2014	7	544	114	8.3	4,661.0
11/13/2014	6	533	118	8.4	4,660.6
11/24/2014	7	523	114	8.2	4,660.5
12/08/2014	7	550	114	8.5	4,655.8
12/22/2014	7	571	120	8.5	4,655.7

*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 4th QTR 2014	
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>					
10/09/2014	6	578	63	8.7	4,662.9
10/23/2014	6	548	114	8.3	4,659.4
11/11/2014	8	540	113	8.3	4,662.7
11/24/2014	7	526	112	8.1	4,662.6
12/08/2014	6	560	113	8.5	4,659.1
12/22/2014	7	575	122	8.6	4,487.7

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-09		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 4th QTR 2014	
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>					
10/09/2014	7	576	119	8.2	4,663.4
10/23/2014	6	388	183 *	8.0	4,661.1
11/11/2014	8	543	115	8.1	4,663.0
11/24/2014	6	527	114	7.7	4,663.1
12/08/2014	7	560	115	8.3	4,660.9
12/22/2014	7	574	124	8.2	4,662.9

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-10		Urinerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 4th QTR 2014	
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>					
10/07/2014	7	570	73	8.4	4,665.5
10/21/2014	6	547	114	8.1	4,665.4
11/05/2014	7	528	113	7.9	4,665.2
11/20/2014	7	529	112	7.9	4,665.4
12/03/2014	7	528	112	8.0	4,665.2
12/17/2014	7	529	112	8.2	4,665.1

*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 4th QTR 2014	
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>						
10/07/2014	7	695	64	8.4	4,666.2	
10/21/2014	6	722	109	8.1	4,665.9	
11/04/2014	6	647	108	8.0	4,663.6	
11/19/2014	6	680	108	8.0	4,665.9	
12/03/2014	6	680	108	7.9	4,665.8	
12/17/2014	6	695	108	8.1	4,665.7	

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MON-12		Urinerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 4th QTR 2014	
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>					
10/09/2014	7	637	102	7.8	4,666.8
10/20/2014	7	606	111	8.0	4,667.0
11/13/2014	7	619	110	8.0	4,667.1
11/25/2014	7	588	110	7.8	4,659.8
12/08/2014	6	621	111	8.0	4,664.8
12/22/2014	7	635	117	8.1	4,665.4

*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 4th QTR 2014	
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>					
10/07/2014	7	581	67	8.3	4,667.8
10/20/2014	7	558	115	7.9	4,665.9
11/04/2014	6	548	113	7.6	4,666.6
11/20/2014	7	566	115	7.8	4,667.6
12/03/2014	7	551	114	7.7	4,667.4
12/16/2014	7	538	114	8.1	4,667.5

*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 4th QTR 2014	
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>					
10/06/2014	7	547	62	8.7	4,608.2
10/21/2014	7	541	115	8.5	4,599.7
11/05/2014	7	528	116	8.4	4,589.9
11/17/2014	7	561	116	8.5	4,596.1
12/01/2014	7	539	116	8.8	4,592.1
12/15/2014	8	552	117	8.3	4,616.6

*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 4th QTR 2014	
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>					
10/06/2014	7	569	134	8.4	4,602.9
10/21/2014	8	560	118	8.2	4,599.8
11/05/2014	7	584	119	8.0	4,593.9
11/17/2014	8	573	118	8.2	4,601.3
12/01/2014	8	554	120	8.4	4,597.4
12/15/2014	8	564	120	7.9	4,601.3

*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 4th QTR 2014	
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>					
10/06/2014	10	576	122	8.5	4,602.6
10/21/2014	8	568	120	8.3	4,582.5
11/05/2014	8	564	120	8.3	4,596.8
11/17/2014	7	587	119	8.3	4,609.5
12/01/2014	8	562	118	8.6	4,604.7
12/15/2014	8	568	115	8.4	4,586.2

*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 4th QTR 2014	
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>					
10/06/2014	7	580	114	8.6	4,623.8
10/21/2014	7	572	115	8.4	4,617.5
11/05/2014	7	574	114	8.3	4,627.7
11/17/2014	7	579	114	8.4	4,631.5
12/01/2014	7	564	113	8.7	4,630.1
12/15/2014	8	568	113	8.4	4,586.4

*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 4th QTR 2014	
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>					
10/06/2014	7	570	112	8.5	4,619.1
10/21/2014	7	531	112	8.2	4,628.2
11/05/2014	7	565	112	8.3	4,636.6
11/17/2014	7	584	114	8.2	4,638.1
12/01/2014	7	533	113	8.6	4,639.2
12/15/2014	8	566	109	8.4	4,591.4

*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 4th QTR 2014	
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>					
10/06/2014	8	571	109	6.7	4,625.1
10/21/2014	8	552	110	8.4	4,633.1
11/05/2014	7	569	111	8.4	4,638.9
11/17/2014	7	577	111	8.5	4,639.1
12/01/2014	8	558	111	8.7	4,641.5
12/15/2014	8	578	108	8.4	4,605.6

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-07		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 4th QTR 2014	
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>					
10/06/2014	7	578	113	8.6	4,631.8
10/21/2014	7	560	114	8.3	4,639.0
11/05/2014	7	572	112	8.2	4,641.9
11/17/2014	7	575	114	8.4	4,643.1
12/01/2014	7	558	113	8.6	4,645.3
12/16/2014	8	561	112	8.3	4,619.9

*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 4th QTR 2014	
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>					
10/02/2014	7	540	115	8.4	4,643.3
10/15/2014	7	567	113	8.2	4,639.0
11/05/2014	7	571	113	8.1	4,646.5
11/19/2014	7	577	113	8.2	4,648.0
12/02/2014	7	562	112	8.2	4,649.4
12/15/2014	7	582	114	8.3	4,637.9

*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 4th QTR 2014	
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>					
10/02/2014	7	561	112	8.5	4,646.8
10/15/2014	7	576	111	8.2	4,643.0
11/03/2014	7	533	113	8.1	4,645.3
11/19/2014	7	577	112	8.2	4,650.1
12/02/2014	7	561	111	8.2	4,651.5
12/15/2014	7	586	110	8.3	4,643.8

*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 4th QTR 2014	
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>					
10/02/2014	7	560	114	8.4	4,649.7
10/15/2014	7	575	112	8.3	4,646.3
11/03/2014	7	557	113	7.9	4,648.1
11/18/2014	7	573	112	8.2	4,652.4
12/02/2014	7	554	111	8.2	4,653.3
12/15/2014	7	583	113	8.3	4,648.1

*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 4th QTR 2014	
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>					
10/02/2014	7	564	108	8.5	4,653.3
10/15/2014	7	579	107	8.3	4,649.7
11/03/2014	8	563	109	8.0	4,650.8
11/18/2014	7	572	107	8.2	4,655.4
12/01/2014	7	577	107	8.2	4,656.3
12/15/2014	8	583	108	8.4	4,652.7

*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 4th QTR 2014	
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>					
10/02/2014	7	565	118	8.4	4,656.4
10/15/2014	6	578	117	8.2	4,653.3
11/03/2014	7	562	119	8.0	4,654.0
11/18/2014	7	570	117	8.2	4,657.8
12/01/2014	7	573	117	8.1	4,658.7
12/15/2014	7	581	119	8.3	4,656.4

*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 4th QTR 2014	
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>					
10/02/2014	7	568	121	8.4	4,659.1
10/15/2014	7	584	117	8.2	4,656.9
11/03/2014	7	574	119	7.9	4,657.2
11/18/2014	6	549	118	8.2	4,660.0
12/01/2014	7	573	118	8.0	4,660.6
12/15/2014	7	586	120	8.3	4,659.5

*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 4th QTR 2014	
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>					
10/06/2014	6	591	118	8.5	4,659.7
10/20/2014	7	514	120	8.3	4,660.9
11/03/2014	6	576	119	8.0	4,659.7
11/18/2014	6	569	118	8.4	4,661.7
12/01/2014	7	577	119	8.1	4,662.4
12/15/2014	7	586	119	8.4	4,661.8

*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 4th QTR 2014	
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>					
10/06/2014	6	579	122	8.5	4,661.6
10/20/2014	6	545	122	8.2	4,662.5
11/03/2014	6	566	123	8.0	4,661.4
11/18/2014	6	561	122	8.4	4,663.3
12/01/2014	6	569	122	8.0	4,663.7
12/16/2014	7	551	121	8.3	4,662.7

*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 4th QTR 2014	
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>					
10/06/2014	7	569	119	8.4	4,664.2
10/20/2014	7	544	121	8.1	4,664.8
11/03/2014	6	562	119	7.9	4,664.0
11/18/2014	6	570	120	8.3	4,665.4
12/01/2014	7	564	120	7.9	4,665.8
12/16/2014	7	543	120	8.2	4,665.3

*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 4th QTR 2014	
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>					
10/06/2014	6	548	121	8.5	4,663.6
10/20/2014	6	531	122	8.1	4,664.0
11/03/2014	7	570	129	8.0	4,665.2
11/17/2014	6	560	121	7.8	4,664.4
12/01/2014	7	545	121	8.0	4,664.9
12/16/2014	8	534	122	8.3	4,664.4

*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 4th QTR 2014	
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>					
10/06/2014	6	555	118	8.4	4,660.4
10/20/2014	6	540	118	8.1	4,660.9
11/03/2014	6	548	120	7.9	4,658.3
11/17/2014	6	564	118	8.0	4,661.3
12/01/2014	7	550	118	7.9	4,659.1
12/16/2014	7	534	119	8.2	4,661.4

*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 4th QTR 2014	
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>					
10/07/2014	7	541	65	8.6	4,658.9
10/20/2014	7	546	118	8.3	4,659.0
11/04/2014	6	525	118	8.3	4,619.2
11/20/2014	6	549	118	8.1	4,659.3
12/02/2014	7	529	119	8.3	4,660.0
12/16/2014	8	523	120	8.4	4,659.4

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-21	Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS			Quarterly Report 4th QTR 2014	
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>					
10/09/2014	6	561	64	7.9	4,657.1
10/20/2014	6	527	119	8.1	4,657.3
11/04/2014	6	525	119	7.8	4,582.0
11/19/2014	6	526	117	8.0	4,658.5
12/03/2014	7	528	115	8.0	4,660.5
12/17/2014	6	532	118	8.2	4,657.3

*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 4th QTR 2014	
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>					
10/07/2014	7	539	138	8.6	4,654.7
10/20/2014	7	526	117	8.3	4,654.5
11/04/2014	6	530	117	7.9	4,620.4
11/19/2014	6	529	116	8.1	4,655.9
12/02/2014	7	525	117	8.2	4,656.5
12/16/2014	7	527	119	8.4	4,654.4

*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 4th QTR 2014	
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>					
10/07/2014	7	547	68	8.5	4,651.7
10/20/2014	7	531	118	8.3	4,651.7
11/04/2014	7	547	119	8.0	4,622.1
11/20/2014	6	559	119	8.0	4,653.2
12/02/2014	7	532	119	8.1	4,654.2
12/16/2014	7	534	120	8.2	4,650.5

*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 4th QTR 2014	
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>					
10/02/2014	6	536	120	8.4	4,649.3
10/15/2014	6	548	121	8.2	4,646.1
11/05/2014	7	538	121	8.1	4,651.2
11/17/2014	7	555	121	8.2	4,651.5
12/01/2014	6	531	120	8.4	4,652.4
12/16/2014	7	530	122	8.2	4,644.8

*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 4th QTR 2014	
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>					
10/07/2014	7	531	148	8.7	4,645.1
10/22/2014	6	497	115	8.4	4,645.7
11/06/2014	7	496	115	8.3	4,647.5
11/20/2014	7	535	114	8.4	4,648.6
12/03/2014	7	532	118	8.5	4,649.5
12/17/2014	6	534	117	8.6	4,637.0

*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 4th QTR 2014	
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>					
10/07/2014	7	517	64	8.6	4,638.6
10/22/2014	7	505	124	8.3	4,639.8
11/06/2014	7	507	123	8.2	4,642.9
11/20/2014	7	526	123	8.2	4,643.9
12/02/2014	7	485	122	8.4	4,645.2
12/17/2014	7	485	122	8.2	4,627.7

*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 4th QTR 2014	
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>					
10/09/2014	7	560	63	8.7	4,631.2
10/22/2014	6	519	121	8.2	4,635.7
11/13/2014	7	537	119	8.0	4,641.3
11/24/2014	7	513	120	8.1	4,604.3
12/08/2014	7	539	120	8.2	4,632.1
12/22/2014	7	546	128	8.3	4,616.9

*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 4th QTR 2014	
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>					
10/09/2014	7	561	67	8.8	4,631.4
10/22/2014	7	524	116	8.3	4,632.4
11/13/2014	7	550	137	8.1	4,638.6
11/24/2014	6	514	117	8.1	4,640.2
12/08/2014	6	538	119	8.2	4,621.6
12/22/2014	9	548	136	8.3	4,605.8

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MRN-29		Urinerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 4th QTR 2014	
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>					
10/08/2014	6	463	81	8.5	4,619.1
10/22/2014	7	523	117	8.2	4,630.9
11/06/2014	6	515	118	8.1	4,636.0
11/19/2014	6	510	117	8.0	4,639.7
12/02/2014	7	522	118	8.3	4,643.1
12/17/2014	6	533	118	8.4	4,596.5

*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 4th QTR 2014	
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>					
10/08/2014	7	492	134	8.8	4,611.4
10/22/2014	6	516	117	8.3	4,622.2
11/06/2014	7	512	119	8.2	4,622.5
11/19/2014	7	505	118	8.2	4,626.7
12/02/2014	7	520	118	8.4	4,627.2
12/16/2014	7	513	118	8.3	4,593.1

*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 4th QTR 2014	
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>					
10/08/2014	7	501	63	8.1	4,614.2
10/22/2014	7	510	122	8.4	4,618.6
11/06/2014	7	508	121	9.0	4,625.3
11/19/2014	6	498	121	8.3	4,614.5
12/02/2014	7	500	118	8.6	4,617.5
12/16/2014	7	504	119	8.7	4,607.3

*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 4th QTR 2014	
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>					
10/08/2014	7	515	98	8.1	4,611.1
10/22/2014	6	511	121	8.3	4,612.0
11/06/2014	7	509	120	8.7	4,596.9
11/19/2014	6	502	119	8.2	4,622.0
12/02/2014	7	503	117	8.4	4,608.5
12/16/2014	7	506	119	8.4	4,614.6

*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 4th QTR 2014	
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>					
10/08/2014	7	521	123	8.2	4,613.1
10/22/2014	7	516	120	8.4	4,609.2
11/06/2014	7	515	119	8.8	4,595.4
11/19/2014	6	513	119	8.4	4,598.3
12/02/2014	7	510	116	8.6	4,600.6
12/16/2014	7	512	117	8.6	4,619.0

*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 4th QTR 2014	
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>					
10/08/2014	7	538	68	8.1	4,615.5
10/22/2014	7	533	114	8.4	4,608.9
11/06/2014	7	530	114	8.4	4,600.2
11/19/2014	6	528	115	8.2	4,599.4
12/02/2014	7	524	115	8.3	4,600.1
12/16/2014	7	526	116	8.4	4,617.7

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-01-1		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 4th QTR 2014	
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>					
10/15/2014	5	380	198	8.4	4,636.9
10/27/2014	5	379	198	8.4	4,635.0
11/12/2014	5	382	197	8.2	4,638.5
11/24/2014	5	359	197	8.3	4,638.2
12/08/2014	5	386	195	8.4	4,637.3
12/30/2014	6	395	196	8.6	4,633.4

*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 4th QTR 2014	
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>					
10/14/2014	5	391	64	8.5	4,634.4
10/28/2014	5	381	203	8.4	4,634.4
11/13/2014	6	406	203	8.5	4,638.0
11/25/2014	5	397	201	8.3	4,637.9
12/08/2014	5	398	201	8.4	4,637.8
12/31/2014	6	391	202	8.5	4,636.8

*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 4th QTR 2014	
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>					
10/14/2014	5	382	198	8.3	4,634.7
10/28/2014	6	381	196	8.3	4,633.7
11/13/2014	5	388	198	8.4	4,639.0
11/25/2014	5	377	197	8.3	4,638.7
12/08/2014	5	371	197	8.3	4,638.6
12/31/2014	6	380	196	8.4	4,637.0

*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 4th QTR 2014	
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>					
10/13/2014	4	405	62	8.3	4,640.1
10/27/2014	5	418	220	8.2	4,635.1
11/11/2014	5	417	221	8.2	4,639.8
11/25/2014	5	423	218	8.2	4,635.4
12/09/2014	4	412	218	8.3	4,638.5
12/23/2014	4	433	233	8.4	4,638.3

*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 4th QTR 2014	
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

10/14/2014	5	390	66	8.5	4,639.0
10/27/2014	5	383	196	8.4	4,635.4
11/13/2014	5	389	196	8.5	4,638.3
11/25/2014	5	381	194	8.3	4,638.2
12/09/2014	5	371	195	8.5	4,637.6
12/29/2014	6	387	197	8.5	4,642.5

*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 4th QTR 2014	
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>					
10/13/2014	5	366	165	8.5	4,639.7
10/27/2014	5	379	195	8.4	4,639.6
11/12/2014	5	379	194	8.3	4,638.8
11/25/2014	5	378	196	8.3	4,638.5
12/08/2014	5	382	196	8.5	4,634.1
12/22/2014	5	391	205	8.6	4,634.0

*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 4th QTR 2014	
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>					
10/09/2014	6	378	66	8.9	4,640.4
10/23/2014	5	354	177	8.4	4,635.7
11/13/2014	5	383	179	8.8	4,639.2
11/24/2014	5	360	178	8.6	4,639.8
12/08/2014	5	389	183	8.9	4,634.3
12/22/2014	5	387	188	8.6	4,633.7

*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 4th QTR 2014	
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>					
10/09/2014	5	377	65	8.6	4,640.4
10/23/2014	5	367	178	8.4	4,636.5
11/11/2014	7	359	181	8.4	4,639.9
11/24/2014	5	348	178	8.4	4,639.5
12/08/2014	5	366	180	8.6	4,635.1
12/23/2014	5	374	191	8.6	4,637.7

*Value Exceeds Upper Control Limit

Production Area 1 Well ID MUN-09		Uranerz Energy Corporation Nichols Ranch PERIMETER, OVER AND UNDER MONITOR WELLS		Quarterly Report 4th QTR 2014	
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>					
10/09/2014	6	406	64	9.0	4,640.2
10/23/2014	6	391	182	8.5	4,637.5
11/11/2014	6	382	183	8.9	4,639.6
11/24/2014	6	375	182	8.7	4,639.7
12/08/2014	5	391	184	8.8	4,636.2
12/23/2014	6	401	200	8.8	4,638.1

*Value Exceeds Upper Control Limit