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**LOST CREEK ISR,
LLC**

WYOMING OFFICE
5880 ENTERPRISE DR., STE. 200
CASPER, WY 82609
TEL: (307) 265-2373
FAX: (307) 265-2801

March 21, 2014

Mrs. Melissa Bautz
State of Wyoming
Department of Environmental Quality
Land Quality Division
510 Meadowview Drive
Lander, WY 82520

ATTN: Document Control Desk
U.S. NRC
Washington, DC 20555-0001

Rawlins BLM Field Office
ATTN: Mr. Mark Newman
PO Box 2407
Rawlins, WY 82301-2407

**Re: Report on Hole LC254
WDEQ-LQD Permit 788, BLM WYW-166318, NRC License SUA-1598**

To Whom It May Concern:

Please find below a description of the investigation, cause and corrective action regarding the mining fluid in drill hole LC254.

Investigation

On February 18th and 19th the Wellfield Operators noticed a sheet of ice in the area of LC254 but were not concerned since there was considerable ice and snow from recent precipitation and there was no well in the area. On February 20th a Wellfield Maintenance Technician noticed an intermittent small spurt of water coming from the ground (a little smaller in diameter than a pencil). The initial belief was that there was a leaking lateral line so the laterals in the area were turned off. The area was excavated on February 20th to find the assumed broken lateral but instead hole LC254 was encountered with water in the well bore seeping past the concrete surface cap. Since the area around the hole was dry it became apparent that the moisture wasn't coming from a broken lateral line but from the hole itself. A sample of the water was collected and analyzed by the in-house lab which determined the uranium concentration to be 48 mg/L. The operating patterns south of the fault, which were started about two weeks prior, were shut down except for a single production well, 1I256P, which served to maintain a hydrologic sink to pull back any mining solution which may have migrated out of the HJ Horizon. When the injection was shut down the water level in LC254 immediately dropped out of view but it was impossible to get a water level reading due to grout in the hole. The corresponding drop in the water level with the shutdown of injection in HH1-4 indicated that the fluid was coming from HH1-4 activities.

Approximately 5 gallons of water reached the surface of which most was recovered as ice and disposed of.

FSME20
FSME

A number of steps were taken to determine the source of the mining solution in hole LC254. Each injection and production well south of the fault and within 100 feet of LC254 was mechanical integrity tested (MIT). Each of the seven (7) wells passed the MIT (MIT records are provided in Attachment 1).

LCI reviewed the status of historic holes within 400 feet of LC254. Only two historic holes could not be found and replugged prior to mining; TT85 which is 260 feet from LC254 and TT86 which is 280 feet from LC254. It is unlikely that these holes are the source of leakage since there is no apparent surface discharge in the immediate area of either of these two holes and due to the significant distance. Figure 1 shows the location of LC254 in relation to the fault, mining patterns, monitor wells, and plugged drill holes.

The water quality in each of the surrounding monitor wells was carefully reviewed to determine if there was any trending which could be caused by vertical migration of mining solution. Table 1 shows the baseline and recent operational water quality of the overlying monitor wells in the area of LC254. The operational data is generally consistent with baseline data and there are no discernable trends in the UCL parameters. The concentration of dissolved uranium in the FG (overlying) horizon during baseline sampling was generally greater than for other horizons within the Battle Spring Formation. This may be due to a greater opportunity for oxidation in the shallower aquifer. The nearest overlying monitor well to LC254 is MO-113 which had a peak baseline dissolved uranium concentration of 0.641 mg/l. The FG Horizon in the vicinity of MU1 is host to approximately 11 mappable roll fronts that carry significant mineralization and resources. The FG contains over 580,000 pounds eU_3O_8 (all resource categories) in the vicinity of where it overlaps MU1. LC254 is located directly within an area of strong to 'ore' grade mineralization hosted by the FG. Mineralization intercepted by this hole and within the completed interval includes, but is not limited to, 6 feet of 0.032% eU_3O_8 beginning at 347 feet.

The water level in each of the surrounding monitor wells was also carefully reviewed to determine if there was any trending which could be caused by a vertical migration of mining solution and associated pressure wave. Attachment 2 shows the water levels since the beginning of operation. Please note that the vertical scale has been intentionally reversed so the scale mimics the depth to water. All water level trends are flat or are very gradually declining due to the hydrologic sink that has been created within the HJ Horizon. There is no trending that could be indicative of upward migration of fluid.

In order to determine if any mining solution had migrated into the FG Horizon, which overlies the HJ mining horizon, hole LC254 was converted into an FG Horizon monitor well. A drill rig was placed on the hole to wash out the grout. However, very little resistance was encountered and very little grout was washed to the surface. Drill records show that 37 sacks of grout were used to plug the hole (BH30 Grout). The plugging was performed before procedures mandated that each plugged hole be re-visited to confirm the fall back depth and top off the grout column. Since hole LC254 was completed through the fault it is possible that the grout fell back more than normal thus leaving an open pathway to the surface. After flushing out the hole, cement was tremmied into the hole from the bottom in order to plug off the HJ Horizon. Upon tagging the cement plug it was discovered that the cement had fallen back from approximately 350' to 410' so additional cement was added to bring the plug up to 350'. Casing was installed from surface to 250' and cemented into place. A screen was then slid into place from 250' to 350'. A drill rig airlifted for 1 hour at 25 to 30 gpm in order to clean the screened interval. Attachment 3 contains the completion report for well MO-LC254.

A submersible pump was installed in well MO-LC254 and a sample collected on March 18th and sent to the in-house lab and Energy Laboratories in Casper. Results from Energy Laboratories are pending but the in-house lab results are as follows:

Dissolved Uranium (U_3O_8)	0.44 mg/L
Total Alkalinity as $CaCO_3$	69.5 mg/L
Chloride	7.79 mg/L
Specific Conductance	456 $\mu S/cm$
pH	9.95 Standard Units

For the sake of comparison, a sample of injection fluid collected on February 3, 2014 at the processing plant contained the following concentrations:

Total Alkalinity as CaCO ₃	596 mg/L
Chloride	188 mg/L
Specific Conductance	2,330 µS/cm

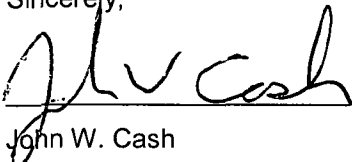
The uranium, chloride and specific conductance results from MO-LC254 are generally consistent with the baseline FG values shown in Table 1 and indicate that there is no measureable mining solution in the FG Horizon. With additional sampling and associated purging, we expect the pH to drop slightly and the concentration of total alkalinity to rise as cement and mud continue to be flushed from the well. The well will be sampled on a weekly basis for at least the next month to ensure formation water is being collected and there is no mining solution in the FG Horizon. Results will be provided to the agencies addressed by this submittal.

Corrective Action

In order to prevent similar incidents in the future, LCI will re-open each hole drilled pre-2009 that is located both within 25 feet of a fault and within 200 feet of an existing or planned Class III well and determine if the grout column is in place through the HJ and FG Horizon. If the grout column isn't in place, LCI will flush out the hole to total depth and cement the hole from total depth through at least the top of the FG Horizon. After curing for at least 12 hours, the cement plug will be tagged and additional cement will be added if the plug falls below the top of the FG Horizon. The remainder of the hole will be cemented or grouted to near surface pursuant to plugging regulations. Holes drilled during 2009 and after have already been grouted to surface and the placement of the grout column to surface has been verified. Therefore, these holes will not be re-opened. An initial review indicates there are approximately 20 holes in Mine Units 1 and 2 that fit the criteria listed above and will require further investigation. The same corrective action will be applied to future mine units as they are developed.

If you have any questions regarding this submittal please feel free to call me at our Casper office.

Sincerely,



John W. Cash
Vice President

Attachments: *As Stated*

Cc: Deputy Director, Decommissioning and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs,
U.S. NRC

Mr. Mark Newman, BLM Rawlins Field Office

Mr. John Saxton, NRC, via email

Ms. Theresa Horne, Ur-Energy, Littleton Office

FIGURE 1

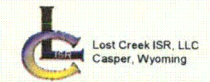
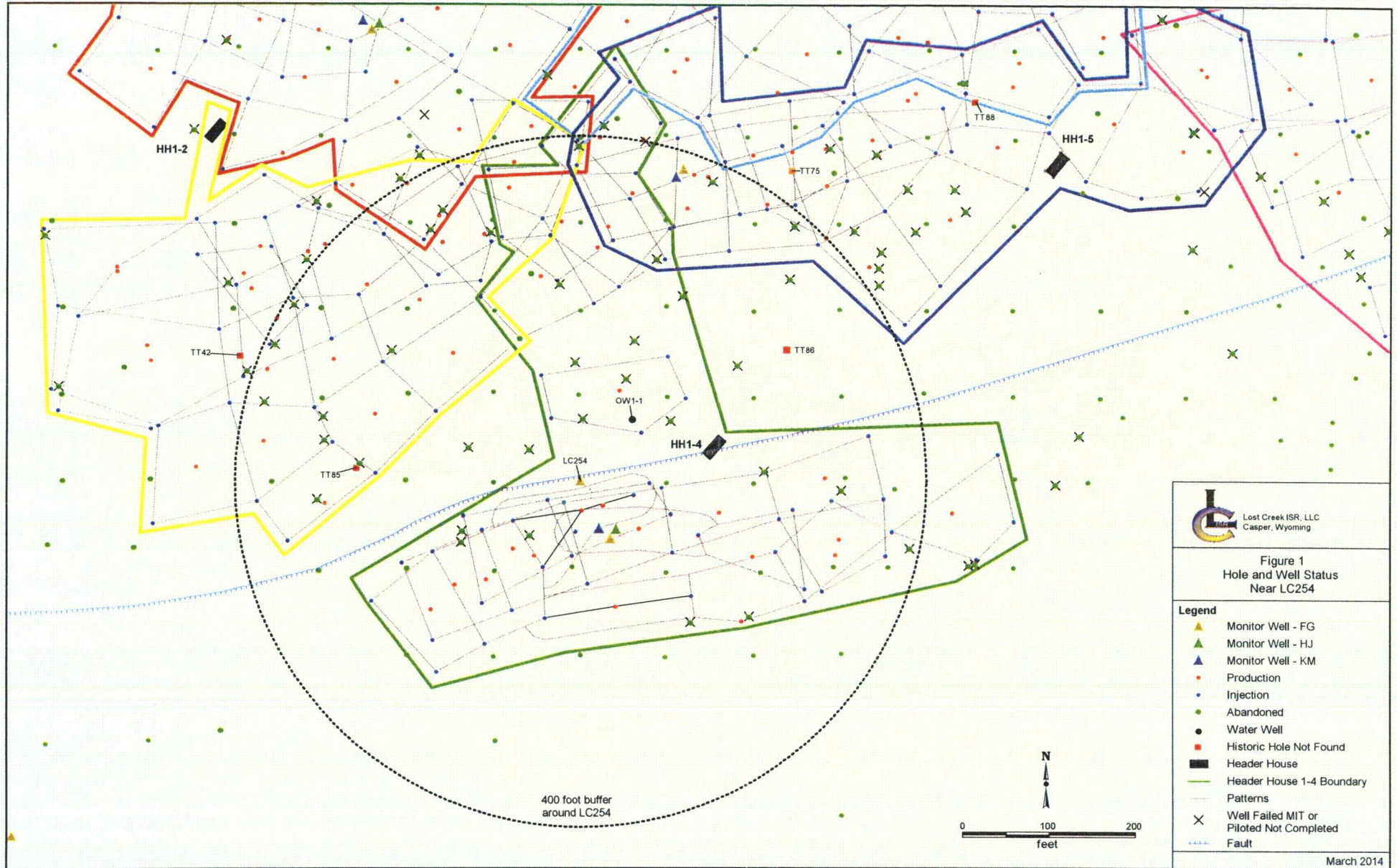


Figure 1
Hole and Well Status
Near LC254

March 2014

TABLE 1

Table 1
Baseline and Recent Water Quality of Overlying Monitor Wells

Well Name		MO-108										MO-110									
Project Status		Baseline Date				Recent Operational Data						Baseline Data				Recent Operational Data					
Sample Date		4/22/09	5/6/09	5/20/09	6/3/09	1/7/14	1/20/14	2/6/14	2/18/14	3/6/14	3/20/14	4/21/09	5/5/09	5/19/09	6/2/09	1/6/14	1/17/14	2/4/14	2/18/14	3/6/14	3/19/14
Total Alkalinity as CaCO ₃	mg/L	109	107	103	103	103	99	101	101	101	103	87	92	95	96	98	97	95	96	96	98
CO ₃	mg/L	-1	-1	-1	-1							8	6	-1	-1						
HCO ₃	mg/L	134	130	125	126							89	101	115	117						
Dissolved Calcium	mg/L	57	60	59	58							45	45	47	47						
Total Chloride	mg/L	5	5	5	5	6	8	7	6	6	7	7	7	7	8	8	5	5	5	6	6
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.2							0.2	0.2	0.2	0.2						
Dissolved Magnesium	mg/L	3	3	2	3							-1	1	1	1						
Total NH ₃ -N	mg/L	0.5	0.36	0.16	0.14							-0.05	-0.05	-0.05	-0.05						
Dissolved NO ₃ +NO ₂ -N	mg/L	-0.05	-0.05	-0.05	-0.05							0.16	0.13	0.13	0.13						
Dissolved Potassium	mg/L	3	3	2	2							5	4	4	3						
Dissolved SiO ₂	mg/L	13.9	14.9	12.3	14.1							12.7	12.6	11.7	13.6						
Dissolved Sodium	mg/L	34	31	34	32							35	33	33	31						
Total SO ₄	mg/L	120	119	126	127							98	96	99	101						
Spec. Cond. at 25 °C	µmhos/cm	480	471	457	473	498	502	500	504	500	501	398	417	398	421	434	432	437	433	431	434
Laboratory pH	SU	7.99	8.02	8.1	7.94							9.16	8.78	8.57	8.06						
TDS Dried at 180 °C	mg/L	316	312	322	310							264	258	283	285						
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1							-0.1	-0.1	-0.1	-0.1						
Dissolved Arsenic	mg/L	0.002	0.002	0.001	-0.001							0.003	0.002	0.002	0.001						
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001							0.002	0.002	0.002	0.001						
Dissolved Manganese	mg/L	-0.01	0.02	0.02	0.02							-0.01	-0.01	-0.01	-0.01						
Dissolved Selenium	mg/L	0.003	0.005	0.005	0.005							0.02	0.021	0.019	0.019						
Dissolved Uranium	mg/L	0.506	0.347	0.324	0.334							0.266	0.313	0.302	0.294						
Dissolved Zinc	mg/L	-0.01	-0.01	-0.01	-0.01							0.05	-0.01	0.04	-0.01						
Total Iron	mg/L	-0.07	-0.03	-0.03	-0.03							-0.03	-0.07	-0.03	-0.07						
Total Manganese	mg/L	-0.01	-0.02	0.02	0.02							-0.01	-0.01	-0.01	-0.01						
Gross Alpha	pCi/L	402	302	397	290							234	294	319	385						
Gross Beta	pCi/L	137	87.6	94.5	91.4							80.3	89.2	98.8	96.7						
Dissolved Ra-226	pCi/L	8.7	4.7	4	3.4							2.4	3.1	2.5	2.6						
Dissolved Ra-228	pCi/L	2	1.9	2.5	4.7							1.2	7	2.5	4.2						
Dissolved Ra-226+Ra-228	pCi/L	10.7	6.6	6.5	8.1							3.6	10.1	5	6.8						

Table 1
Baseline and Recent Water Quality of Overlying Monitor Wells

Well Name		MO-111										MO-112									
Project Status		Baseline Data				Recent Operational Data						Baseline Data				Recent Operational Data					
Sample Date		5/5/09	5/19/09	6/2/09	11/18/09	1/8/14	1/15/14	2/5/14	2/19/14	3/6/14	3/19/14	4/21/09	5/5/09	5/19/09	6/2/09	1/6/14	1/17/14	2/4/14	2/19/14	3/5/14	3/19/14
Total Alkalinity as CaCO ₃	mg/L	101	91	98	105	101	102	89	101	99	101	36	43	73	70	91	107	106	106	105	101
CO ₃	mg/L	5	-1	-1	-5							9	6	4	4						
HCO ₃	mg/L	113	111	120	128							26	41	81	78						
Dissolved Calcium	mg/L	51	45	46	49							26	30	38	42						
Total Chloride	mg/L	5	6	6	5	5	6	5	5	5	5	10	9	7	7	8	7	6	6	5	7
Dissolved Fluoride	mg/L	0.1	0.2	0.2	0.2							0.3	0.2	0.2	0.2						
Dissolved Magnesium	mg/L	2	2	2	2							1	2	2	2						
Total NH ₃ -N	mg/L	0.06	-0.05	-0.05	-0.05							-0.05	-0.05	-0.05	-0.05						
Dissolved NO ₃ +NO ₂ -N	mg/L	-0.05	0.16	0.16	0.2							0.3	0.31	0.33	0.33						
Dissolved Potassium	mg/L	8	3	2	2							3	2	2	2						
Dissolved SiO ₂	mg/L	13.4	12.7	14.8	14.4							15.6	14.9	14.2	17.5						
Dissolved Sodium	mg/L	33	31	31	32							29	27	26	29						
Total SO ₄	mg/L	126	94	96	97							82	87	82	83						
Spec. Cond. at 25 °C	µmhos/cm	499	380	408	415	433	437	379	431	429	431	307	322	329	347	353	418	419	417	419	426
Laboratory pH	SU	8.73	8.15	7.81	7.92							9.69	9.36	8.88	8.75						
TDS Dried at 180 °C	mg/L	310	265	261	246							214	205	229	218						
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1							-0.1	-0.1	-0.1	-0.1						
Dissolved Arsenic	mg/L	0.011	0.002	0.001	-0.001							0.002	0.002	-0.001	-0.001						
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001							-0.001	-0.001	-0.001	-0.001						
Dissolved Manganese	mg/L	-0.01	-0.01	-0.01	-0.01							-0.01	-0.01	-0.01	-0.01						
Dissolved Selenium	mg/L	-0.001	0.021	0.022	0.027							0.03	0.03	0.03	0.032						
Dissolved Uranium	mg/L	0.424	0.288	0.369	0.320							0.132	0.146	0.312	0.331						
Dissolved Zinc	mg/L	0.01	0.06	-0.01	-0.01							0.04	-0.01	-0.01	-0.01						
Total Iron	mg/L	-0.07	-0.03	-0.07	-0.03							-0.03	-0.07	-0.03	-0.07						
Total Manganese	mg/L	-0.01	-0.01	-0.01	-0.01							-0.01	-0.01	-0.01	-0.01						
Gross Alpha	pCi/L	1060	298	439	372							137	148	287	334						
Gross Beta	pCi/L	544	136	138	101							53.1	56.8	110	94.6						
Dissolved Ra-226	pCi/L	360	5.5	6.2	6.6							1.4	0.74	1.3	1						
Dissolved Ra-228	pCi/L	5.1	2.5	1.4	2							0.8	0.6	0.7	0.4						
Dissolved Ra-226+Ra-228	pCi/L	5.1	8	7.6	8.6							2.2	1.34	2	1.4						

Table 1
Baseline and Recent Water Quality of Overlying Monitor Wells

Well Name		MO-113									
Project Status		Baseline Data				Recent Operational Data					
Sample Date		4/21/09	5/5/09	5/19/09	6/2/09	1/8/14	1/15/14	2/5/14	2/19/14	3/5/14	3/19/14
Total Alkalinity as CaCO ₃	mg/L	102	104	104	105	103	105	63	104	103	107
CO ₃	mg/L	-1	-1	-1	-1						
HCO ₃	mg/L	125	126	127	129						
Dissolved Calcium	mg/L	53	49	50	56						
Total Chloride	mg/L	7	7	6	6	7	6	5	5	5	6
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.2						
Dissolved Magnesium	mg/L	3	3	3	2						
Total NH ₃ -N	mg/L	-0.05	-0.05	-0.05	-0.05						
Dissolved NO ₃ +NO ₂ -N	mg/L	0.17	0.16	0.15	0.17						
Dissolved Potassium	mg/L	2	2	2	2						
Dissolved SiO ₂	mg/L	15.5	14.5	13.1	15.6						
Dissolved Sodium	mg/L	31	29	30	32						
Total SO ₄	mg/L	103	102	101	106						
Spec. Cond. at 25 °C	µmhos/cm	432	446	418	436	454	454	281	450	449	459
Laboratory pH	SU	8.08	8.22	8.1	7.85						
TDS Dried at 180 °C	mg/L	292	292	299	273						
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1						
Dissolved Arsenic	mg/L	-0.001	-0.001	-0.001	-0.001						
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001						
Dissolved Manganese	mg/L	-0.01	-0.01	-0.01	-0.01						
Dissolved Selenium	mg/L	0.04	0.043	0.04	0.042						
Dissolved Uranium	mg/L	0.609	0.629	0.581	0.641						
Dissolved Zinc	mg/L	0.06	-0.01	-0.01	-0.01						
Total Iron	mg/L	-0.03	-0.07	-0.03	-0.07						
Total Manganese	mg/L	-0.01	-0.01	-0.01	-0.01						
Gross Alpha	pCi/L	490	612	568	587						
Gross Beta	pCi/L	213	237	175	202						
Dissolved Ra-226	pCi/L	37	34	37	38						
Dissolved Ra-228	pCi/L	1.4	1.9	1.5	2.9						
Dissolved Ra-226+Ra-228	pCi/L	38.4	35.9	38.5	40.9						

ATTACHMENT 1



UR ENERGY USA, INC.
LOST CREEK ISR, LLC
STANDARD FORM



MECHANICAL INTEGRITY TESTING RECORD

Revision: 13 Mar 2013

FORM Number: FORM LC_OPS-022A

Approved: CVH

Date: 2-28-14

MIT Testers Name: MIKE TONCY

Lost Creek ISR, LLC ☒

MIT Truck No: 21

Lost Creek North ☐

Single Packer ☒

Lost Creek South ☐

Double Packer ☐

Lost Creek West ☐

Completion Head ☒

Lost Creek East ☐

Well ID: 2-9-315

Original ☐

Casing Depth: 485'

Retest ☒

K-Packer Depth: 478'

1 Year ☐

Top Packer Depth / Final Head Surface: 4'

5 Year ☐

Bottom Packer Depth: 468'

10 Year ☐

Top Packer / Well Head (Start) PSI: 1500 PSI

Bottom Packer (Ending) PSI: 600 PSI

Pass ☒

Time Started: 1:00

Fail ☐

5 Minutes Time: 1:05 1 PSI

5 Minutes Time: 1:10 2 PSI

Pressure loss can be NO greater than 5% of Total PSI in Ten Minutes

Final Pressure Reading: 157 PSI

Total Loss of Pressure during MIT: 3 PSI

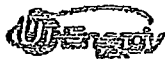
1.9 %

Time Completed: 1:10

Comments: _____

SIGNATURE OF DRILLING SUPERVISOR: _____

DATE: _____



UP ENERGY USA, INC.
LOST CREEK ISR, LLC
STANDARD FORM



MECHANICAL INTEGRITY TESTING RECORD

Edition: 13 May 2013

FORM Number: FORM LC_OFS-022A

Approved: CVH

Date 3-3-14

MIT Testers Name MIKE Toney

Lost Creek ISR, LLC ☒

MIT Truck No 21

Lost Creek North ☐

Single Packer ☒

Lost Creek South ☐

Double Packer ☐

Lost Creek West ☐

Completion Head ☒

Lost Creek East ☐

Well ID 11082

Original ☐

Casing Depth 450

Re-test ☒

K-Packer Depth 443

1 Year ☐

Top Packer Depth/Well Head Surface 47

5 Year ☐

Bottom Packer Depth 433

10 Year ☐

Top Packer/Well Head (Start) PSI 1500 PSI

Bottom Packer (Finishing) PSI 600 PSI

Pass ☒

Time Started 10:50

Fail ☐

5 Minutes Time 10:55 2 PSI

5 Minutes Time 11:00 1 PSI

Pressure loss can be 100 greater than 5% of Total PSI in Ten minutes

Final Pressure Reading 157 PSI

Total Loss of Pressure during MIT 3 PSI

1.9 %

Time Completed 11:00

Comments _____

SIGNATURE OF DRILLING SUPERVISOR: _____

DATE: _____



UR-ENERGY USA, INC.
LOST CREEK SR, LLC
STANDARD FORM



MECHANICAL INTEGRITY TESTING RECORD

Edition: 13Mar2013

FORM Number: FORM LC_OPS-022A

Approved: CVH

Date 3-3-14

MIT Testers Name MIKE TONEY

Lost Creek SR, LLC ☒

MIT Track No 21

Lost Creek North ☐

Single Packer ☒

Lost Creek South ☐

Double Packer ☐

Lost Creek West ☐

Completion Head ☒

Lost Creek East ☐

Well ID 15-311

Original ☐

Casing Depth 395

Retest ☒

K-Packer Depth 386

1 Year ☐

Top Packer Depth/Well Head Surface 0

3 Year ☐

Bottom Packer Depth 376

10 Year ☐

Top Packer/Well Head (Start) PSI 1500 PSI

Bottom Packer (Ending) PSI 600 PSI

Pass ☒

Time Started 2:20

Fail ☐

5 Minutes Time 2:25 2 PSI

5 Minutes Time 2:30 3 PSI

Pressure loss can be NO greater
than 5% of Total PSI in Ten Minutes

Final Pressure Reading 155 PSI

Total Loss of Pressure during MIT 5 PSI

3.1 %

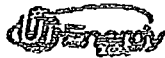
Time Completed 2:30

Comments _____

SIGNATURE OF QUALIFIED SUPERVISOR: _____

DATE: _____

1 of 1



UP ENERGY USA, INC.
LOST CREEK ISR, LLC
STANDARD FORM



MECHANICAL INTEGRITY TESTING RECORD

Revised: 13 Mar 2013

FORM Number: FORM C_OPS-022A

Approved: CVH

Date 3-3-14

MIT Testers Name

MIKE TONER

Lost Creek ISR, LLC

☒

MIT Truck No

21

Lost Creek North

☐

Single Packer

☒

Lost Creek South

☐

Double Packer

☐

Lost Creek West

☐

Completion Head

☒

Lost Creek East

☐

Well ID

11081

Original

☐

Casing Depth

415

Re-test

☒

K-Packer Depth

408

1 Year

☐

Top Packer Depth/Well Head Surface

0

5 Year

☐

Bottom Packer Depth

398

10 Year

☐

Top Packer/Well Head (Start) PSI

1500 PSI

Bottom Packer (Ending) PSI

600 PSI

Pass

☒

Time Started

1:30

Fail

☐

5 Minutes Time

1:35 0 PSI

5 Minutes Time

1:40 5 PSI

Pressure loss can be NO greater
than 5% of Total PSI in Ten Minutes

Final Pressure Reading

157 PSI

Total Loss of Pressure during MIT

3 PSI

1.9 %

Time Completed

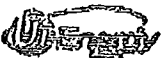

1:40

Comments

SIGNATURE OF DARTING SUPERVISOR:

DATE:

1 of 1

	UR ENERGY USA, INC. LOST CREEK ISR, LLC STANDARD FORM	
MECHANICAL INTEGRITY TESTING RECORD		
Effective: 13Mar2013	FORM Number: FORM_IC_OPS-022A	Approved: CVH

Date 3-3-14 MIT Tester's Name MURRY TONEY

Lost Creek ISR, LLC ☒ MIT Truck No. 21

Lost Creek North ☐ Single Packer ☒

Lost Creek South ☐ Double Packer ☐

Lost Creek West ☐ Completion Need ☒

Lost Creek East ☐ Well ID# 11085

Original ☐ Casing Depth 425

Re-test ☒ K-Packer Depth 418

1 Year ☐ Top Packer Depth/Wall Head Surface 0

5 Year ☐ Bottom Packer Depth 408

10 Year ☐ Top Packer/Wall Head (Start) PSI 1500 PSI

Bottom Packer (Ending) PSI 600 PSI

Time Started 12:50

Pass ☒ 5 Minutes Time 12:55 1 PSI

Fail ☐ 3 Minutes Time 1:00 3 PSI

Pressure loss can be NO greater than 5% of Total PSI in Ten Minutes

Final Pressure Reading 156 PSI

Total loss of Pressure during MIT 4 PSI

2.5 %

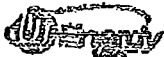

Time Completed _____

Comments _____

SIGNATURE OF DRILLING SUPERVISOR: _____

DATE: _____

1 of 1

	UP-ENERGY USA, INC. LOST CREEK RR, LLC STANDARD FORM	
MECHANICAL INTEGRITY TESTING RECORD		
Revision: 13Mar2013	FORM Number: FORM C_OPS-012A	Approved: CVH

Date 3-3-14

MIT Testers Name MIKE TONBY

Lost Creek RR, LLC ☒

MIT Truck No 21

Lost Creek North ☐

Single Packer ☒

Lost Creek South ☐

Double Packer ☐

Lost Creek West ☐

Completion Head ☒

Lost Creek East ☐

Well ID 1T212

Original ☐

Casing Depth 395

Re-test ☒

K-Packer Depth 386

1 Year ☐

Top Packer Depth/Well Head Surface 4

5 Year ☐

Bottom Packer Depth 376

10 Year ☐

Top Packer/Well Head (Start) PSI 1500 PSI

Bottom Packer (Ending) PSI 600 PSI

Pass ☒

Time Started 11:50

Fail ☐

5 Minutes Time 11:55 2 PSI

5 Minutes Time 12:00 2 PSI

Pressure loss can be NO greater than 5% of Total PSI in Ten Minutes

Final Pressure Reading 156 PSI

Total Loss of Pressure during MIT 4 PSI

2.5 %



Time Completed 12:00

Comments _____

SIGNATURE OF DRILLING SUPERVISOR: _____

DATE: _____

) of 1

		UR ENERGY USA, INC. LOST CREEK IR, LLC STANDARD FORM	
MECHANICAL INTEGRITY TESTING RECORD			
FORM NUMBER: FORM LC-012A APPROVED: CVH			

DATE 3-14-14

TESTER'S NAME

Mike Farley

UNIT NUMBER

21

Single Factor

☒

Double Factor

☐

Completion Method

☒

Weld No.

MA-LC00254

Coupling Depth

250

Factor Depth

243

Top Factor Depth/Unit Head Depth

8

Bottom Factor Depth

233

Top Factor/Unit Head (ft) (ft)

15.00

Bottom Factor (ft) (ft)

400

Time Skipped

3.20

5 Minutes Time

0

5 Minutes Time

2

5 Minutes Time

2

Final Pressure Reading

48

Total Loss of Pressure during Test

2

Time Completed

3.30

Pressure loss can be 10% greater than 5% of total PSI in 10 minutes

☐ No

☒ Yes

☐ 10 Year

☐ 5 Year

☐ 1 Year

☐ Return

☒ Original

☐ Lost Creek Box



☐ Lost Creek Weld

☐ Lost Creek Branch

☐ Lost Creek Main

☒ Lost Creek IR, LLC

TEST PRESSURE 50 p.s.i.

	UR-ENERGY USA, INC. LOST CREEK ISR, LLC STANDARD FORM	
MECHANICAL INTEGRITY TESTING RECORD		
Edition: 13Mar2013	FORM Number: FORM LC_OPS-022A	Approved: CVH

Date 3-20-14MIT Testers Name MIKE TONBYLost Creek ISR, LLC ☒MIT Truck No 21Lost Creek North ☐Single Packer ☒Lost Creek South ☐Double Packer ☐Lost Creek West ☐Completion Head ☒Lost Creek East ☐Well ID# 11090Original ☐Casing Depth 440Retest ☒K-Packer Depth 4331 Year ☐Top Packer Depth/Well Head Surface 03 Year ☐Bottom Packer Depth 42310 Year ☐Top Packer/Well Head (Start) PSI 1500 PSIBottom Packer (Ending) PSI 600 PSIPass ☒Time Started 10:00Fail ☐5 Minutes Time 10:05 0 PSI5 Minutes Time 10:10 2 PSI

Pressure loss can be 10% greater than 5% of Total PSI in Ten Minutes

Final Pressure Reading 158 PSITotal Loss of Pressure during MIT 2 PSI1.25 %Time Completed 10:15Comments RETEST

SIGNATURE OF OPERATING SUPERVISOR: _____

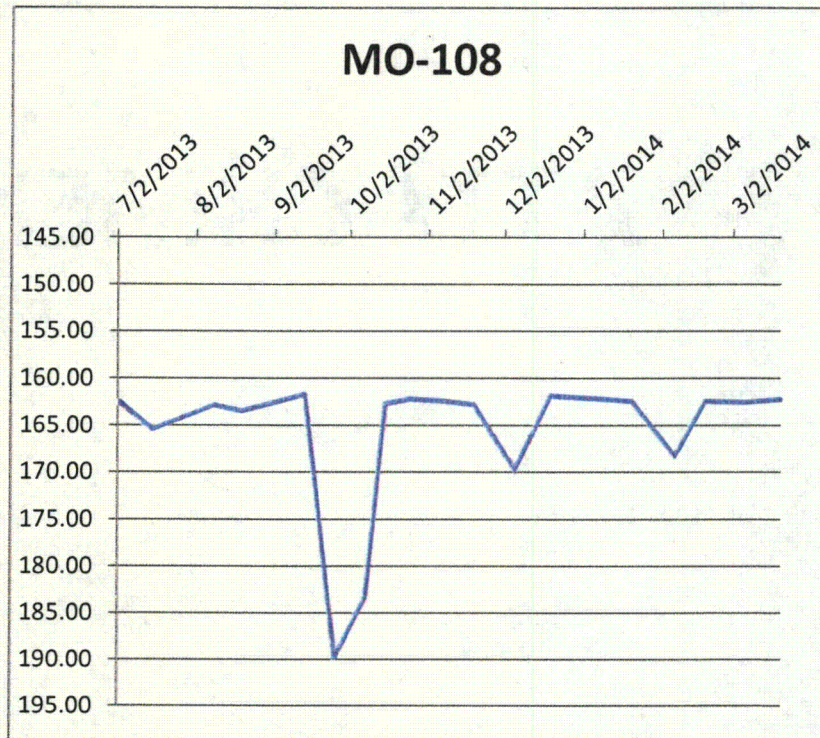
DATE: _____

ATTACHMENT 2

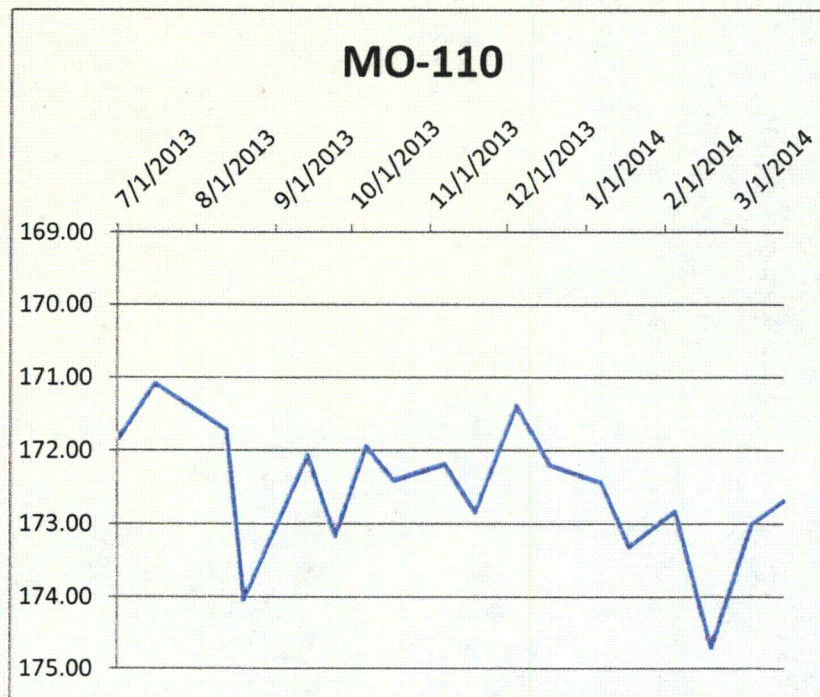
Attachment 2

Water Level Data for Overlying Monitor Wells in Area of LC254

Well ID	Measure Date	Depth to Water (ft-bmp)
MO-108	7/2/2013	162.50
MO-108	7/15/2013	165.40
MO-108	8/8/2013	162.82
MO-108	8/19/2013	163.44
MO-108	9/13/2013	161.69
MO-108	9/25/2013	189.76
MO-108	10/7/2013	183.40
MO-108	10/15/2013	162.68
MO-108	10/25/2013	162.17
MO-108	11/7/2013	162.39
MO-108	11/19/2013	162.75
MO-108	12/5/2013	169.75
MO-108	12/19/2013	161.84
MO-108	1/7/2014	162.15
MO-108	1/20/2014	162.43
MO-108	2/6/2014	168.28
MO-108	2/18/2014	162.41
MO-108	3/6/2014	162.52
MO-108	3/20/2014	162.21



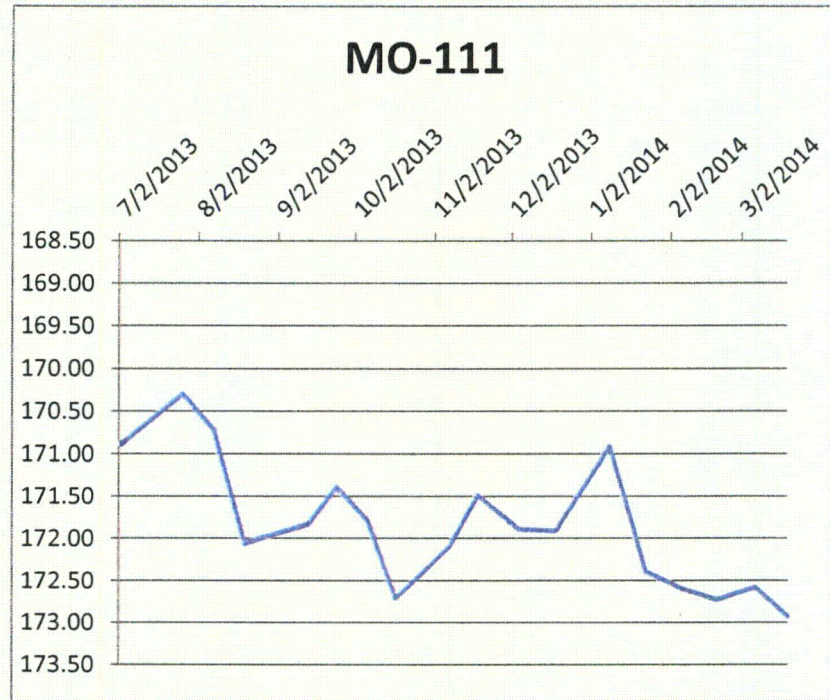
MO-110	7/1/2013	171.83
MO-110	7/15/2013	171.09
MO-110	8/12/2013	171.73
MO-110	8/19/2013	174.04
MO-110	9/13/2013	172.07
MO-110	9/24/2013	173.17
MO-110	10/6/2013	171.95
MO-110	10/17/2013	172.41
MO-110	11/6/2013	172.19
MO-110	11/18/2013	172.84
MO-110	12/4/2013	171.39
MO-110	12/17/2013	172.20
MO-110	1/6/2014	172.44
MO-110	1/17/2014	173.32
MO-110	2/4/2014	172.83
MO-110	2/18/2014	174.71
MO-110	3/6/2014	173.01
MO-110	3/19/2014	172.69



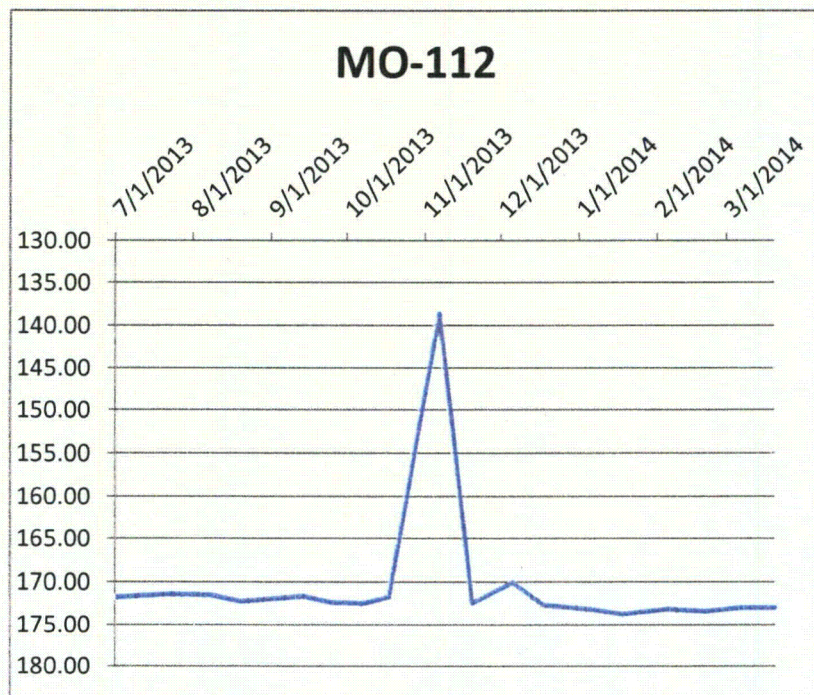
Attachment 2

Water Level Data for Overlying Monitor Wells in Area of LC254

Well ID	Measure Date	Depth to Water (ft. bmp)
MO-111	7/2/2013	170.89
MO-111	7/26/2013	170.30
MO-111	8/7/2013	170.72
MO-111	8/19/2013	172.06
MO-111	9/13/2013	171.83
MO-111	9/24/2013	171.39
MO-111	10/6/2013	171.79
MO-111	10/17/2013	172.71
MO-111	11/7/2013	172.09
MO-111	11/18/2013	171.49
MO-111	12/4/2013	171.89
MO-111	12/18/2013	171.91
MO-111	1/8/2014	170.91
MO-111	1/22/2014	172.39
MO-111	2/5/2014	172.59
MO-111	2/19/2014	172.73
MO-111	3/6/2014	172.58
MO-111	3/19/2014	172.93



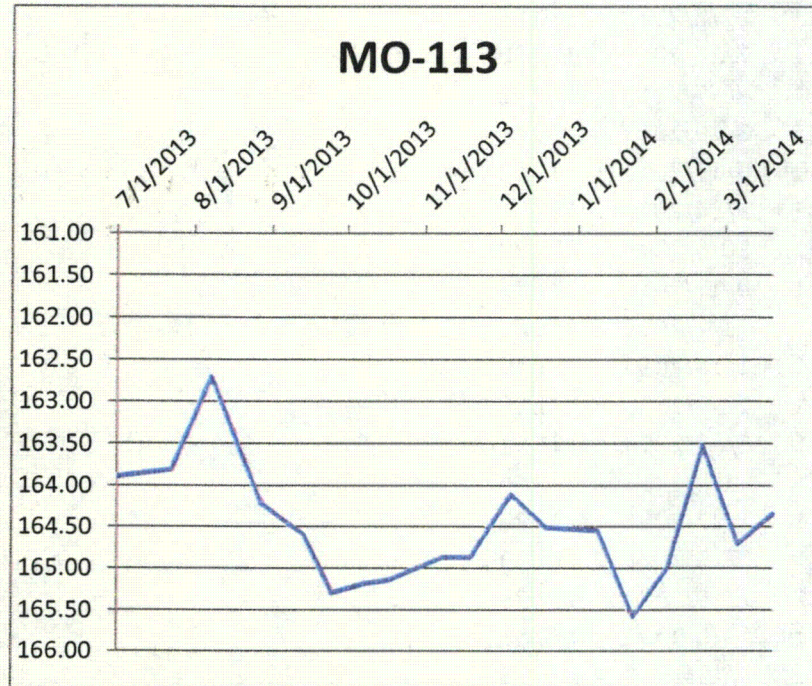
MO-112	7/1/2013	171.78
MO-112	7/22/2013	171.41
MO-112	8/7/2013	171.50
MO-112	8/19/2013	172.26
MO-112	9/13/2013	171.65
MO-112	9/24/2013	172.38
MO-112	10/7/2013	172.48
MO-112	10/17/2013	171.73
MO-112	11/6/2013	138.69
MO-112	11/19/2013	172.46
MO-112	12/5/2013	170.09
MO-112	12/17/2013	172.66
MO-112	1/6/2014	173.24
MO-112	1/17/2014	173.76
MO-112	2/4/2014	173.14
MO-112	2/19/2014	173.42
MO-112	3/5/2014	172.99
MO-112	3/19/2014	173.01





Attachment 2

Water Level Data for Overlying Monitor Wells in Area of LC254

Well ID	Measure Date	Depth to Water (ft-bmp)
MO-113	7/1/2013	163.89
MO-113	7/22/2013	163.81
MO-113	8/7/2013	162.71
MO-113	8/27/2013	164.22
MO-113	9/13/2013	164.6
MO-113	9/24/2013	165.29
MO-113	10/7/2013	165.18
MO-113	10/17/2013	165.14
MO-113	11/7/2013	164.87
MO-113	11/18/2013	164.87
MO-113	12/4/2013	164.11
MO-113	12/18/2013	164.51
MO-113	1/8/2014	164.55
MO-113	1/22/2014	165.58
MO-113	2/5/2014	164.99
MO-113	2/19/2014	163.52
MO-113	3/5/2014	164.71
MO-113	3/19/2014	164.35



ATTACHMENT 3

	UR-ENERGY USA, INC. LOST CREEK ISR, LLC STANDARD FORM	
<p align="center">WELL CASING RECORD</p>		
Edition: 27Jun2013	FORM Number: FORM_LC_OPS-041A	Approval: CVH

WELL # MO-LC 254 Date 03-06-14 Driller Duane Rig # Cloud

Surface
Annulus kept
Collapsing in AS
Driller was working the
Well. (NP)

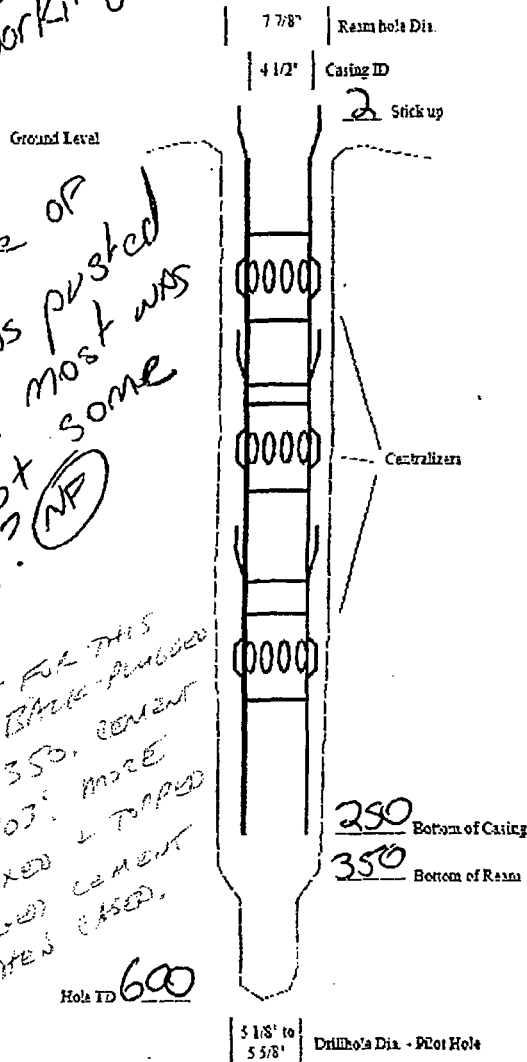
Ground Level

piece of

isted

Well. (NP)
10 Ft piece of
Casing was pushed
in to hole most was
cut up but some
Remained. (NP)
First for this
Bore - Paved
segment

Cut
Remained
REMAINING PART FOR THIS
WELL WAS BACK-PAVING
FROM 600-350. CEMENT
TAGGED AT 403'. MORE
CEMENT MIXED & TAPPED
OFF. TAGGED CEMENT
AT 288. THIS CASED.
Hole TD 600



CASING TYPE: SDR 17

ID: 4.5" Ream Dia: 7 7/8"

OD: 4.95" Joint type: Certa-Lock

CASING STRING: Driller Initial - all casing fields for accuracy

Number of 20' joints/length: 12 ~~15~~ ~~300~~ 240

Stick up: 2

Cut joint: 12

Casing depth: 1930 250

Total Casing Length: M 312 252

Number of PVC Centralizers: 14/11/6

Interval: Every 40'

CEMENTING:

Technique: Pumped through casing

displaced with water

Type: Portland type I/II or

50-50 Portland/Pozzolan

MEX:

Cement (Sacks): 40.5 | 40.5

Slurry (bbl): 13.5 | 13.5

Weight (lbs/gal): 13.5 13.5 Please initial

Additives: _____

Displaced with (bbl): 5.8 | 5.8

Cement to surface? Yes (bbl): 1 (No) Please Initial

Wiper plug? Yes ~~No~~

COMMENTS: Hole would not stop shifting in
while drill was casing, hence the Shallow C.D.

Driller Approval: D. Canale Date: 2-16-79

Approved By: [Signature] Date: 3/14/14

4-12.13 FORM-Cancer Record & Inv. Patient

TOP OFF: (Please Initial upon completion) _____ Date: _____

Method applied: _____ (bbl): _____

Weight (lbs/gal): _____

Dry Bag Cement (Sacks): _____ Date: _____

Please Initial



UR-ENERGY USA, INC.
LOST CREEK ISR, LLC
STANDARD FORM



WELL COMPLETION REPORT

Edition: 18Mar2013

FORM Number: FORM_LC_OPS-041B

Approval: CVH

WELL # MD-LC 254 Date 3-13-14 Driller Duane - Cloud

CEMENT DRILLOUT: Depth to Plug: 288
Bit Size: 4 1/4" Drillout TD: 350

UNDERREAMING: Invert
Blade Dia: 10 1/2"
Fluid: FW
Interval: From: - To: -
From: - To: -

SCREEN ASSEMBLY

Description	From - To	Length
Collar (J or Coupling)	<u>243</u>	<u>.5'</u>
K-Packer Asbly		<u>1.5'</u>
Blank (PVC)	<u>250</u>	<u>5'</u>
Screen Sections	Qty	Length
	<u>5</u>	<u>20</u>
		<u>100</u>

Total (From-To/Length) 250 350 100

Blank (PVC/Cap) - - 3'

SCREEN SPECIFICATIONS:

Slot size: .020 (Steel) (PVC) (Circle one)
Style: Wire-Wrapped Stainless Steel Perf. Casing

FILTER PACKING:

Volume: - (bags)(ft³) Sand Specs. -
Method: -

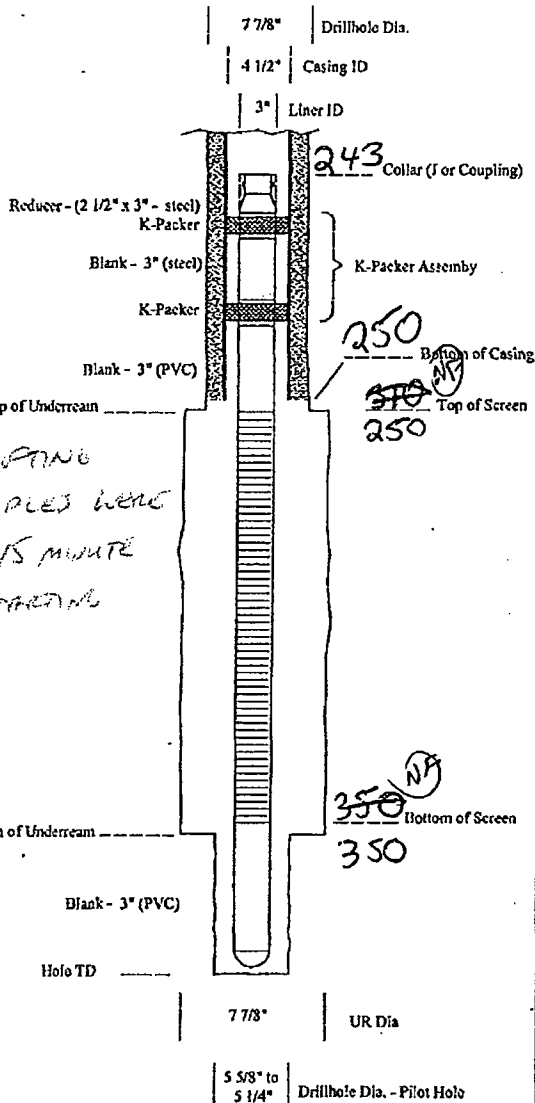
WELL STIMULATION: Method Art Lift

Time: hrs 1 min. -

Yield: Good / Moderate / Poor

Estimated Flowrate: 25-30

Approved By: [Signature] Date: 3/14/14



DURING ACIDIZING
4 WATER SAMPLES WERE
TAKEN AT 15 MINUTE
INTERVALS, STARTING
AT 15:55
16:10
16:25
16:40

Completion Check:	Yes	No	(circle one)
Planned Depth:			
Check Depth:			
Depth Difference:		High	Low (circle one)
Initial:		Date:	