

COLORADO OFFICE
10758 W. CENTENNIAL RD., STE. 200
LITTLETON, CO 80127
TEL: (866) 981-4588
FAX: (720) 981-5643



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

LOST CREEK ISR, LLC

January 26, 2016

Brian Wood
State of Wyoming Department of Environmental Quality
Land Quality Division
510 Meadowview Drive
Lander, WY 82520

**Re: Quarterly Report for 4th Quarter 2015 for the Lost Creek ISR Project
Permit #788 (BLM WYW-166318)**

Dear Mr. Wood,

This Quarterly Report for the fourth calendar quarter of 2015 for the Lost Creek ISR Project has been submitted pursuant to Wyoming Department of Environmental Quality - Land Quality Division (LQD) Rules and Regulations Chapter 11 Section 15(b) to provide a summary of:

- *Mechanical Integrity Testing (Ch11 Sect 15(b)(ii)).*
- *Wellfield Monitoring and Water Quality (Ch11 Sect 14).*

Mechanical Integrity Testing

A total of 9 Mechanical Integrity Tests (MIT) were performed on a total of 9 wells in accordance with the approved Permit Operations Plan Section 3.4. Results are summarized on **Attachment 1**. The MITs resulted in 9 successful tests with no failures.

Wellfield Monitoring

Wellfield injection and production in Mine Unit 1 continued throughout the quarter with the addition of one header house. Twelve (12) header houses were in operation for production as of the end of the fourth quarter. Lixiviant was generated by the addition of sodium carbonate (NaCO₃ or "soda ash") solution, carbon dioxide (CO₂), and oxygen (O₂) to the injection stream.

The injection rates and pressures for each header house manifold are provided on **Attachment 2**. Additionally, production flow (PC), injection flow (IC), bleed values, and number of wells injecting are also represented. The bleed rate percentage is calculated by dividing the bleed rate by the production rate and multiplying by 100. Main bleed is diverted in a metered line directly from the injection circuit line. Bleed water is disposed of by approved means and not reintroduced into circulation.

Groundwater level data collected from Mine Unit 1 (MU1) and regional monitoring wells is included on **Attachment 3**. Water levels for MU1 were measured semi-monthly in conjunction with routine excursion groundwater sampling for the ring, overlying, and underlying monitor wells. Quarterly water levels were collected from regional wells (“LC” and “MB” wells). Water levels for “MO” and “MU” wells were relatively stable during the quarter and larger but typical fluctuation in levels occurred at the “M” (ring) wells since they are more directly affected by water balance in the wellfield.

Data results from routine groundwater quality monitoring analysis and associated quality control (QC) is included as **Attachment 4**. Excursion monitoring parameters include alkalinity, chloride, and specific conductance for which associated Upper Control Limits (UCLs) have been established by well group (i.e. ring, overlying, and underlying wells). As described in the Permit Operations Plan Section 3.6.4, an excursion may be indicated by any one analytical parameter result exceeding the associated UCL by 20% or more or by two or three results exceeding the applicable UCL. The MU1 monitor wells were sampled routinely which includes 28 monitor ring wells, 26 mine unit wells (13 overlying and 13 underlying), and 2 regional DE zone wells. Sampling for operational monitoring was conducted in MU1 on a semi-monthly basis with each event at least 10 days apart. The table displays the analytical result, the applicable UCL value, and the percent difference. A negative percent difference indicates the analytical value is less than the UCL. The percent difference (or percent change) is determined by the following formula:

$$\% \text{ Difference} = \frac{\text{Result} - \text{UCL}}{\text{UCL}} \times 100\%$$

None of the analytical results exceeded the associated UCL during the quarter.

As a result of an investigation into the former excursion at MU-104, it was theorized that the cement around the casing of MU-104 was likely compromised. It was proposed that a replacement well (MU-104A) should be installed and the former plugged and abandoned. The replacement will be discussed in the next quarterly report.

One sampling event was missed for one well MO-109. Sampling of the MO-109/MU-109 pair was delayed during the first round of sampling for October 2015 due to the use of pressure transducers in the wells for automated water level monitoring for a period of time. Following the data collection, MU-109 was eventually sampled for the first half of October but MO-109 was not sampled at that time due to a miscommunication of instructions for sampling.

Samples were not be collected from the regional DE horizon wells LC29M and MB-10 due to lack of water yield.

If you have any questions regarding this submittal please feel free to contact me at the Casper Office.

Sincerely,



Michael D. Gaither
Manager EHS and Regulatory Affairs
Ur-Energy USA, Inc.

Attachments: **Attachment 1: Mechanical Integrity Testing**
Attachment 2: Operational Flow Summary
Attachment 3: Groundwater Level Measurement Data
Attachment 4: MU1 Water Quality Data

Cc: Mr. Mark Newman, BLM Rawlins Field Office
Mr. John Saxton, NRC (via e-mail)
Ms. Theresa Horne, Ur-Energy, Littleton Office (via e-mail)

**Attachment 1: Mechanical Integrity Testing
4th Quarter 2015
Lost Creek ISR Project PT788**

	Well ID	Well Type	MIT ⁽¹⁾ Date	P/F	P&A ⁽²⁾ Date	Comments
1	11580	I (MU1)	10/16/2015	Pass	N/A	
2	2M1113	I (MU2)	11/16/2015	Pass	N/A	
3	2M1117	I (MU2)	11/17/2015	Pass	N/A	
4	2M1121	I (MU2)	11/16/2015	Pass	N/A	
5	2M1123	I (MU2)	11/17/2015	Pass	N/A	
6	2M1183	I (MU2)	11/16/2015	Pass	N/A	
7	2M1251	I (MU2)	11/17/2015	Pass	N/A	
8	2M1281	I (MU2)	11/17/2015	Pass	N/A	
9	M115A	M	11/5/2015	Pass	N/A	

9 Total MITs
9 Pass
0 Fails
9 Wells Tested
0 Net Failed Wells

(1) MIT method for "Monitoring Wells" as described in WDEQ Permit #788 Operations Plan Section 3.4. Test performed by using packer(s) to isolate casing and then pressurize well.

(2) Plugging and abandonment (P&A) according to WDEQ Permit #788 Reclamation Plan Section 3.1

TBA: To be abandoned

I: Class III Injection Well

P: Production Well

M: Monitor Well

**Attachment 2: Plant Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Production Flow Rate (avg gpm)	Injection Flow Rate (avg gpm)	Main Bleed Flow Rate (avg gpm)	Total Bleed Rate Percent	Comments
10/1/2015	2400	2390	15.1	0.63%	
10/2/2015	2414	2404	15.4	0.64%	
10/3/2015	2398	2391	16.2	0.68%	
10/4/2015	2357	2350	14.9	0.63%	
10/5/2015	2412	2403	14.9	0.62%	
10/6/2015	2429	2420	15.2	0.63%	
10/7/2015	2465	2456	15.2	0.62%	
10/8/2015	2468	2458	15.6	0.63%	
10/9/2015	2456	2446	15.5	0.63%	
10/10/2015	2411	2400	15.0	0.62%	
10/11/2015	2382	2372	15.1	0.63%	
10/12/2015	2411	2401	15.1	0.63%	
10/13/2015	2391	2381	15.3	0.64%	
10/14/2015	2468	2458	15.2	0.62%	
10/15/2015	2482	2472	15.3	0.62%	
10/16/2015	2469	2460	14.6	0.59%	
10/17/2015	2099	2090	13.6	0.65%	
10/18/2015	2302	2293	14.4	0.63%	
10/19/2015	2313	2306	14.9	0.65%	
10/20/2015	2335	2326	15.1	0.65%	
10/21/2015	2446	2438	15.3	0.63%	
10/22/2015	2486	2479	15.8	0.63%	
10/23/2015	2411	2403	15.1	0.62%	
10/24/2015	2368	2361	15.1	0.64%	
10/25/2015	2336	2327	15.0	0.64%	
10/26/2015	2365	2356	15.2	0.64%	
10/27/2015	2367	2359	14.9	0.63%	
10/28/2015	2377	2370	15.0	0.63%	
10/29/2015	2380	2370	15.1	0.63%	
10/30/2015	2143	2136	13.3	0.62%	
10/31/2015	2140	2132	13.7	0.64%	
11/1/2015	2012	2004	12.7	0.63%	
11/2/2015	1999	1993	12.5	0.63%	
11/3/2015	1965	1957	12.4	0.63%	
11/4/2015	1990	1983	12.7	0.64%	
11/5/2015	1930	1922	12.0	0.62%	
11/6/2015	1927	1919	12.0	0.62%	
11/7/2015	1866	1858	11.7	0.63%	
11/8/2015	1849	1841	11.7	0.63%	
11/9/2015	2055	2047	12.9	0.63%	
11/10/2015	2199	2191	13.8	0.63%	
11/11/2015	2239	2231	14.4	0.64%	
11/12/2015	2368	2360	15.3	0.65%	
11/13/2015	2618	2609	16.2	0.62%	
11/14/2015	2648	2640	16.2	0.61%	
11/15/2015	2626	2618	16.1	0.61%	
11/16/2015	2650	2642	15.8	0.60%	
11/17/2015	2628	2618	16.2	0.62%	
11/18/2015	2715	2706	16.5	0.61%	
11/19/2015	2715	2706	16.5	0.61%	
11/20/2015	2711	2704	16.6	0.61%	

Attachment 2: Plant Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788

Date	Production Flow Rate (avg gpm)	Injection Flow Rate (avg gpm)	Main Bleed Flow Rate (avg gpm)	Total Bleed Rate Percent	Comments
11/21/2015	2728	2721	16.7	0.61%	
11/22/2015	2521	2508	15.4	0.61%	
11/23/2015	2569	2561	15.9	0.62%	
11/24/2015	2664	2652	16.1	0.61%	
11/25/2015	2657	2647	16.2	0.61%	
11/26/2015	2640	2631	16.1	0.61%	
11/27/2015	2598	2588	16.2	0.62%	
11/28/2015	2591	2581	15.9	0.61%	
11/29/2015	2597	2587	16.0	0.62%	
11/30/2015	2572	2563	16.0	0.62%	
12/1/2015	2544	2535	15.6	0.61%	
12/2/2015	2500	2491	15.4	0.62%	
12/3/2015	2492	2483	15.3	0.62%	
12/4/2015	2485	2475	15.5	0.62%	
12/5/2015	2466	2456	15.6	0.63%	
12/6/2015	2435	2425	15.3	0.63%	
12/7/2015	2450	2440	14.9	0.61%	
12/8/2015	2460	2448	15.1	0.61%	
12/9/2015	2423	2413	13.9	0.57%	
12/10/2015	2435	2425	13.8	0.57%	
12/11/2015	2482	2470	14.4	0.58%	
12/12/2015	2467	2458	14.4	0.59%	
12/13/2015	2450	2441	14.2	0.58%	
12/14/2015	2428	2418	13.9	0.57%	
12/15/2015	2379	2370	13.6	0.57%	
12/16/2015	2406	2396	13.5	0.56%	
12/17/2015	2383	2374	13.7	0.57%	
12/18/2015	2408	2399	13.4	0.56%	
12/19/2015	2358	2349	13.4	0.57%	
12/20/2015	2334	2324	13.5	0.58%	
12/21/2015	2314	2305	13.1	0.57%	
12/22/2015	2296	2288	13.0	0.57%	
12/23/2015	2296	2287	13.0	0.57%	
12/24/2015	2271	2263	12.9	0.57%	
12/25/2015	2244	2237	12.8	0.57%	
12/26/2015	2243	2237	12.8	0.57%	
12/27/2015	2230	2223	12.9	0.58%	
12/28/2015	2176	2167	12.5	0.57%	
12/29/2015	2051	2041	11.7	0.57%	
12/30/2015	2013	2002	11.5	0.57%	
12/31/2015	1982	1971	11.3	0.57%	

NOTE: Flow rates are normalized to a 24 hr period.
gpm: gallons per minute

**Attachment 2: HH1-1 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
10/1/2015	115	102	159	38	13	
10/2/2015	115	100	154	38	13	
10/3/2015	115	102	154	38	13	
10/4/2015	115	102	151	38	13	
10/5/2015	115	102	155	38	13	
10/6/2015	115	102	160	38	13	
10/7/2015	114	102	155	38	13	
10/8/2015	114	102	159	38	13	
10/9/2015	116	102	159	38	13	
10/10/2015	115	102	157	38	13	
10/11/2015	115	102	157	38	13	
10/12/2015	112	102	153	38	13	
10/13/2015	113	102	157	38	13	
10/14/2015	113	102	154	38	13	
10/15/2015	113	102	156	38	13	
10/16/2015	113	102	161	38	13	
10/17/2015	113	102	158	38	13	
10/18/2015	113	102	158	38	13	
10/19/2015	113	102	158	38	13	
10/20/2015	116	102	155	38	13	
10/21/2015	116	102	165	38	13	
10/22/2015	116	102	169	38	13	
10/23/2015	115	102	161	38	13	
10/24/2015	115	102	158	38	13	
10/25/2015	113	102	153	38	13	
10/26/2015	112	102	153	38	13	
10/27/2015	112	102	153	38	13	
10/28/2015	111	102	158	38	13	
10/29/2015	111	102	163	38	13	
10/30/2015	0	0	7	0	1	
10/31/2015	0	0	8	0	1	
11/1/2015	0	0	8	0	1	
11/2/2015	0	0	8	0	1	
11/3/2015	0	0	8	0	1	
11/4/2015	0	0	8	0	1	
11/5/2015	0	0	6	0	1	
11/6/2015	0	0	6	0	1	
11/7/2015	0	0	5	0	1	
11/8/2015	0	0	6	0	1	
11/9/2015	0	0	5	38	12	
11/10/2015	0	0	5	38	12	
11/11/2015	0	0	5	38	12	
11/12/2015	111	0	134	38	12	
11/13/2015	111	102	149	38	13	
11/14/2015	99	102	147	38	13	
11/15/2015	99	102	145	38	13	
11/16/2015	96	102	146	38	13	
11/17/2015	95	102	134	38	13	
11/18/2015	95	102	125	38	13	
11/19/2015	95	102	127	38	13	
11/20/2015	95	102	126	38	13	
11/21/2015	101	102	125	39	12	

**Attachment 2: HH1-1 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
11/22/2015	101	102	125	39	12	
11/23/2015	101	102	125	39	12	
11/24/2015	104	102	127	39	12	
11/25/2015	104	102	127	39	12	
11/26/2015	104	102	127	39	12	
11/27/2015	105	102	126	39	12	
11/28/2015	103	102	123	39	11	
11/29/2015	103	102	137	39	11	
11/30/2015	103	102	135	38	11	
12/1/2015	94	102	134	38	11	
12/2/2015	94	102	139	38	11	
12/3/2015	95	102	125	38	11	
12/4/2015	95	102	125	38	11	
12/5/2015	93	102	131	38	11	
12/6/2015	93	102	129	38	11	
12/7/2015	93	102	127	38	11	
12/8/2015	93	102	141	38	11	
12/9/2015	92	102	139	38	11	
12/10/2015	93	102	136	38	11	
12/11/2015	93	102	142	38	11	
12/12/2015	95	102	125	38	11	
12/13/2015	95	102	125	38	11	
12/14/2015	95	102	125	38	11	
12/15/2015	95	102	124	38	11	
12/16/2015	94	102	136	38	11	
12/17/2015	94	102	138	38	11	
12/18/2015	92	102	135	38	11	
12/19/2015	92	102	138	38	11	
12/20/2015	94	102	122	38	11	
12/21/2015	94	102	122	38	11	
12/22/2015	94	102	122	38	11	
12/23/2015	94	102	122	38	11	
12/24/2015	92	102	121	38	11	
12/25/2015	92	102	133	38	11	
12/26/2015	92	102	117	38	11	
12/27/2015	92	102	131	38	11	
12/28/2015	92	102	116	38	11	
12/29/2015	62	102	103	38	11	
12/30/2015	92	102	131	38	11	
12/31/2015	63	102	101	38	11	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated fracture pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

N/A: Data not available

**Attachment 2: HH1-2 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
10/1/2015	102	54	93	43	7	
10/2/2015	101	108	81	43	6	
10/3/2015	99	85	79	43	6	
10/4/2015	98	85	79	43	6	
10/5/2015	95	82	77	43	6	
10/6/2015	96	83	80	43	7	
10/7/2015	96	83	88	43	7	
10/8/2015	95	97	89	43	7	
10/9/2015	94	96	89	43	7	
10/10/2015	94	95	88	43	7	
10/11/2015	93	97	87	43	7	
10/12/2015	93	97	86	43	7	
10/13/2015	92	96	89	43	7	
10/14/2015	92	97	87	43	7	
10/15/2015	91	96	88	43	7	
10/16/2015	90	95	90	43	7	
10/17/2015	89	95	90	43	7	
10/18/2015	91	93	93	43	7	
10/19/2015	91	93	89	43	7	
10/20/2015	95	94	86	43	7	
10/21/2015	96	95	93	43	7	
10/22/2015	95	96	95	43	7	
10/23/2015	91	97	92	43	7	
10/24/2015	88	96	88	43	7	
10/25/2015	86	94	85	43	7	
10/26/2015	85	95	84	43	7	
10/27/2015	86	95	89	43	7	
10/28/2015	85	95	89	43	7	
10/29/2015	86	96	90	43	7	
10/30/2015	87	96	92	0	2	
10/31/2015	0	48	13	0	2	
11/1/2015	0	48	13	0	2	
11/2/2015	0	48	12	0	2	
11/3/2015	0	48	12	0	2	
11/4/2015	0	48	12	0	2	
11/5/2015	0	48	12	0	2	
11/6/2015	0	48	11	0	2	
11/7/2015	0	48	11	0	2	
11/8/2015	0	48	11	0	2	
11/9/2015	0	48	11	43	7	
11/10/2015	100	99	87	43	7	
11/11/2015	90	89	90	43	7	
11/12/2015	95	95	89	43	7	
11/13/2015	94	95	87	43	7	
11/14/2015	94	96	88	43	7	
11/15/2015	93	96	86	43	7	
11/16/2015	92	96	85	43	7	
11/17/2015	93	96	85	43	7	
11/18/2015	92	97	83	43	7	
11/19/2015	92	96	83	43	7	
11/20/2015	92	96	81	43	7	

**Attachment 2: HH1-2 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
11/21/2015	93	97	83	43	7	
11/22/2015	93	97	82	43	7	
11/23/2015	90	96	81	43	7	
11/24/2015	97	97	82	43	7	
11/25/2015	94	95	82	43	7	
11/26/2015	96	97	82	43	7	
11/27/2015	96	97	82	43	7	
11/28/2015	95	98	82	43	7	
11/29/2015	93	96	81	43	7	
11/30/2015	93	97	81	43	7	
12/1/2015	92	97	80	43	7	
12/2/2015	93	96	84	43	7	
12/3/2015	93	97	83	43	7	
12/4/2015	90	98	53	43	5	
12/5/2015	90	98	61	43	5	
12/6/2015	90	98	60	43	5	
12/7/2015	89	98	60	43	7	
12/8/2015	91	97	83	43	7	
12/9/2015	92	97	83	43	7	
12/10/2015	91	97	81	43	7	
12/11/2015	94	96	85	43	7	
12/12/2015	92	98	82	43	7	
12/13/2015	93	98	83	43	7	
12/14/2015	92	97	82	43	7	
12/15/2015	92	98	83	43	7	
12/16/2015	91	97	81	43	7	
12/17/2015	91	96	82	43	7	
12/18/2015	91	96	81	43	7	
12/19/2015	92	97	83	43	7	
12/20/2015	89	96	80	43	7	
12/21/2015	90	97	80	43	7	
12/22/2015	89	96	79	43	7	
12/23/2015	89	96	78	43	7	
12/24/2015	91	96	81	43	7	
12/25/2015	92	96	79	43	7	
12/26/2015	92	96	79	43	7	
12/27/2015	91	96	78	43	7	
12/28/2015	91	96	77	43	7	
12/29/2015	89	96	76	43	7	
12/30/2015	64	103	66	43	7	
12/31/2015	63	102	63	43	7	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

N/A: Data not available

**Attachment 2: HH1-3 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
10/1/2015	149	101	130	50	5	
10/2/2015	148	101	128	50	5	
10/3/2015	145	101	127	51	5	
10/4/2015	156	101	127	51	5	
10/5/2015	153	101	130	51	5	
10/6/2015	154	101	127	51	5	
10/7/2015	154	101	129	51	5	
10/8/2015	155	101	131	51	5	
10/9/2015	155	101	130	51	5	
10/10/2015	154	101	128	51	5	
10/11/2015	153	101	127	51	5	
10/12/2015	150	101	126	51	5	
10/13/2015	152	101	128	50	5	
10/14/2015	149	101	127	50	5	
10/15/2015	151	101	128	50	5	
10/16/2015	150	101	131	50	5	
10/17/2015	150	101	132	50	5	
10/18/2015	147	101	131	50	5	
10/19/2015	146	101	128	50	5	
10/20/2015	148	101	128	50	5	
10/21/2015	150	101	133	50	5	
10/22/2015	152	101	136	50	5	
10/23/2015	148	101	130	50	5	
10/24/2015	145	101	126	51	5	
10/25/2015	145	101	124	51	5	
10/26/2015	144	101	124	51	5	
10/27/2015	145	101	129	51	5	
10/28/2015	145	101	129	51	5	
10/29/2015	146	101	131	51	6	
10/30/2015	0	0	23	0	1	
10/31/2015	0	0	23	0	1	
11/1/2015	0	0	23	0	1	
11/2/2015	0	0	23	0	1	
11/3/2015	0	0	22	0	1	
11/4/2015	0	0	22	0	1	
11/5/2015	0	0	22	0	1	
11/6/2015	0	0	22	0	1	
11/7/2015	0	0	21	0	1	
11/8/2015	0	0	21	0	1	
11/9/2015	0	0	21	50	5	
11/10/2015	167	101	113	50	5	
11/11/2015	157	101	118	51	5	
11/12/2015	156	101	117	51	5	
11/13/2015	154	101	115	51	5	
11/14/2015	150	101	114	51	5	
11/15/2015	151	101	114	51	5	
11/16/2015	149	101	115	51	5	
11/17/2015	150	101	114	51	5	
11/18/2015	146	101	113	51	5	
11/19/2015	141	101	110	51	5	
11/20/2015	142	101	111	51	5	

**Attachment 2: HH1-3 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
11/21/2015	142	101	111	51	5	
11/22/2015	144	101	109	51	5	
11/23/2015	146	101	110	51	5	
11/24/2015	147	101	112	51	5	
11/25/2015	150	101	112	51	5	
11/26/2015	148	101	112	51	5	
11/27/2015	148	101	111	51	5	
11/28/2015	148	101	111	51	5	
11/29/2015	150	101	112	51	5	
11/30/2015	151	101	110	51	5	
12/1/2015	149	101	111	51	5	
12/2/2015	146	101	112	51	5	
12/3/2015	147	101	112	51	5	
12/4/2015	143	101	89	51	4	
12/5/2015	142	101	89	51	4	
12/6/2015	142	101	89	51	4	
12/7/2015	140	101	86	51	4	
12/8/2015	140	101	88	51	4	
12/9/2015	141	101	87	51	4	
12/10/2015	141	101	86	51	4	
12/11/2015	142	101	89	51	4	
12/12/2015	142	101	88	51	4	
12/13/2015	142	101	88	51	4	
12/14/2015	142	101	88	51	4	
12/15/2015	139	101	88	51	4	
12/16/2015	139	101	87	51	4	
12/17/2015	139	101	88	51	4	
12/18/2015	120	101	86	51	4	
12/19/2015	121	101	88	51	4	
12/20/2015	114	101	85	51	4	
12/21/2015	117	101	85	51	4	
12/22/2015	113	101	83	51	4	
12/23/2015	119	101	87	51	4	
12/24/2015	121	101	85	51	4	
12/25/2015	122	101	84	51	4	
12/26/2015	121	101	84	51	4	
12/27/2015	121	101	84	51	4	
12/28/2015	121	101	83	51	4	
12/29/2015	119	101	83	51	4	
12/30/2015	84	110	76	51	4	
12/31/2015	79	101	76	51	4	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

N/A: Data not available

**Attachment 2: HH1-4 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
10/1/2015	150	107	155	54	8	
10/2/2015	150	107	153	54	7	
10/3/2015	157	106	149	55	7	
10/4/2015	155	106	150	55	7	
10/5/2015	155	105	146	55	7	
10/6/2015	155	106	151	55	7	
10/7/2015	156	106	153	55	7	
10/8/2015	156	106	150	55	7	
10/9/2015	157	105	150	55	7	
10/10/2015	156	105	149	55	7	
10/11/2015	155	106	149	55	7	
10/12/2015	155	106	147	55	7	
10/13/2015	154	105	150	55	7	
10/14/2015	155	106	148	55	7	
10/15/2015	154	105	149	55	7	
10/16/2015	153	106	152	55	7	
10/17/2015	153	106	152	55	7	
10/18/2015	154	106	156	55	7	
10/19/2015	153	106	150	55	7	
10/20/2015	153	101	148	55	7	
10/21/2015	156	105	160	55	7	
10/22/2015	155	105	161	55	7	
10/23/2015	154	106	152	55	8	
10/24/2015	151	105	124	55	7	
10/25/2015	151	106	140	55	7	
10/26/2015	150	106	138	55	7	
10/27/2015	150	106	143	55	7	
10/28/2015	150	106	143	55	7	
10/29/2015	153	106	145	55	7	
10/30/2015	154	107	148	55	7	
10/31/2015	156	107	135	55	7	
11/1/2015	157	107	150	55	7	
11/2/2015	154	107	146	55	7	
11/3/2015	152	106	128	55	7	
11/4/2015	153	107	142	55	7	
11/5/2015	154	107	134	55	7	
11/6/2015	153	107	140	55	7	
11/7/2015	153	107	142	55	7	
11/8/2015	151	107	135	55	7	
11/9/2015	150	107	132	55	7	
11/10/2015	150	107	141	55	7	
11/11/2015	149	106	145	55	7	
11/12/2015	150	107	141	55	7	
11/13/2015	149	107	138	55	7	
11/14/2015	148	107	140	55	7	
11/15/2015	149	108	138	55	7	
11/16/2015	141	108	140	55	7	
11/17/2015	150	108	139	55	7	
11/18/2015	151	110	136	55	7	
11/19/2015	149	109	136	55	7	
11/20/2015	148	109	134	55	7	

**Attachment 2: HH1-4 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
11/21/2015	149	110	136	55	7	
11/22/2015	147	108	135	55	7	
11/23/2015	144	105	135	55	7	
11/24/2015	148	107	137	55	7	
11/25/2015	148	107	135	55	7	
11/26/2015	147	107	135	55	7	
11/27/2015	146	108	134	55	7	
11/28/2015	145	108	135	55	7	
11/29/2015	146	105	134	55	7	
11/30/2015	147	107	133	55	7	
12/1/2015	146	106	131	55	4	
12/2/2015	142	107	80	52	4	
12/3/2015	119	106	77	49	4	
12/4/2015	98	105	76	39	4	
12/5/2015	66	104	72	22	4	
12/6/2015	66	104	69	22	4	
12/7/2015	66	104	69	16	4	
12/8/2015	54	107	68	16	4	
12/9/2015	55	106	67	16	4	
12/10/2015	54	107	66	16	4	
12/11/2015	55	106	69	16	4	
12/12/2015	55	106	67	16	4	
12/13/2015	55	107	67	16	4	
12/14/2015	54	107	66	16	4	
12/15/2015	52	108	66	17	4	
12/16/2015	56	106	66	16	4	
12/17/2015	54	106	67	16	4	
12/18/2015	47	106	63	16	4	
12/19/2015	47	105	56	16	4	
12/20/2015	47	106	53	16	4	
12/21/2015	47	107	53	16	4	
12/22/2015	47	105	52	16	4	
12/23/2015	48	105	50	16	5	
12/24/2015	48	105	72	16	4	
12/25/2015	48	105	71	16	4	
12/26/2015	48	106	71	16	4	
12/27/2015	48	106	70	16	4	
12/28/2015	48	106	70	16	3	
12/29/2015	45	107	48	15	1	
12/30/2015	36	115	11	16	1	
12/31/2015	38	112	10	16	1	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

N/A: Data not available

**Attachment 2: HH1-5 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
10/1/2015	91	95	29	33	1	
10/2/2015	89	94	28	33	1	
10/3/2015	89	95	28	33	1	
10/4/2015	87	96	28	33	1	
10/5/2015	87	94	28	33	1	
10/6/2015	87	93	28	33	1	
10/7/2015	87	93	28	33	1	
10/8/2015	88	94	28	33	1	
10/9/2015	88	94	28	33	1	
10/10/2015	88	94	28	33	1	
10/11/2015	87	94	28	33	1	
10/12/2015	87	94	28	33	1	
10/13/2015	86	94	28	33	1	
10/14/2015	87	95	28	33	1	
10/15/2015	86	94	28	33	1	
10/16/2015	85	95	28	33	1	
10/17/2015	84	95	29	33	1	
10/18/2015	85	95	29	33	1	
10/19/2015	85	95	29	33	1	
10/20/2015	84	90	28	33	1	
10/21/2015	86	95	29	33	1	
10/22/2015	85	95	29	33	1	
10/23/2015	81	94	29	33	1	
10/24/2015	81	95	28	33	1	
10/25/2015	80	96	28	33	1	
10/26/2015	79	96	28	33	1	
10/27/2015	78	96	28	33	1	
10/28/2015	78	96	28	33	1	
10/29/2015	78	95	29	33	1	
10/30/2015	79	94	29	33	1	
10/31/2015	81	94	29	33	1	
11/1/2015	82	95	28	33	1	
11/2/2015	82	95	28	33	1	
11/3/2015	81	95	28	33	1	
11/4/2015	81	95	28	33	1	
11/5/2015	82	95	28	33	1	
11/6/2015	81	94	27	33	1	
11/7/2015	83	97	27	33	1	
11/8/2015	82	95	27	33	1	
11/9/2015	83	95	26	33	1	
11/10/2015	80	95	28	33	1	
11/11/2015	80	95	29	33	1	
11/12/2015	79	95	28	33	1	
11/13/2015	78	95	28	33	1	
11/14/2015	77	96	28	33	1	
11/15/2015	78	95	28	33	1	
11/16/2015	78	95	28	33	1	
11/17/2015	78	95	28	33	1	
11/18/2015	77	94	27	33	1	
11/19/2015	77	94	28	33	1	
11/20/2015	76	94	27	33	1	

**Attachment 2: HH1-5 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
11/21/2015	77	94	28	33	1	
11/22/2015	77	94	27	33	1	
11/23/2015	80	98	27	33	1	
11/24/2015	79	95	27	33	1	
11/25/2015	81	97	27	33	1	
11/26/2015	80	97	28	33	1	
11/27/2015	78	94	27	33	1	
11/28/2015	77	94	28	33	1	
11/29/2015	78	93	27	33	1	
11/30/2015	79	95	28	33	1	
12/1/2015	78	95	27	33	1	
12/2/2015	79	94	28	33	1	
12/3/2015	80	95	28	33	1	
12/4/2015	79	96	28	33	1	
12/5/2015	79	96	28	33	1	
12/6/2015	78	95	28	33	1	
12/7/2015	79	96	28	33	1	
12/8/2015	80	95	28	33	1	
12/9/2015	79	95	27	33	1	
12/10/2015	79	95	27	33	1	
12/11/2015	80	94	28	33	1	
12/12/2015	81	96	27	33	1	
12/13/2015	81	96	28	33	1	
12/14/2015	80	96	27	33	1	
12/15/2015	80	96	28	33	1	
12/16/2015	79	95	27	33	1	
12/17/2015	79	95	27	33	1	
12/18/2015	80	95	27	33	1	
12/19/2015	81	95	27	33	1	
12/20/2015	80	96	27	33	1	
12/21/2015	80	96	27	33	1	
12/22/2015	79	96	27	33	1	
12/23/2015	79	96	27	33	1	
12/24/2015	80	94	27	33	1	
12/25/2015	81	94	27	33	1	
12/26/2015	80	95	27	33	1	
12/27/2015	81	95	26	33	1	
12/28/2015	80	95	27	33	1	
12/29/2015	79	95	27	33	1	
12/30/2015	55	91	26	33	1	
12/31/2015	56	90	25	33	1	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

N/A: Data not available

**Attachment 2: HH1-6 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
10/1/2015	84	109	119	40	5	
10/2/2015	83	108	115	40	6	
10/3/2015	82	109	114	40	7	
10/4/2015	83	108	113	40	7	
10/5/2015	83	107	110	40	7	
10/6/2015	83	107	114	40	7	
10/7/2015	102	107	114	44	7	
10/8/2015	101	108	116	44	7	
10/9/2015	98	107	116	44	7	
10/10/2015	97	107	115	44	7	
10/11/2015	94	108	114	44	7	
10/12/2015	94	109	112	43	7	
10/13/2015	147	107	117	44	7	
10/14/2015	144	107	115	43	7	
10/15/2015	192	104	122	47	7	
10/16/2015	229	109	126	46	7	
10/17/2015	237	100	125	46	7	
10/18/2015	228	99	129	46	7	
10/19/2015	221	98	124	46	7	
10/20/2015	236	101	125	46	7	
10/21/2015	281	107	132	45	7	
10/22/2015	302	108	133	45	7	
10/23/2015	304	108	134	44	10	
10/24/2015	309	103	209	45	10	
10/25/2015	301	105	204	45	10	
10/26/2015	297	107	202	45	10	
10/27/2015	335	104	210	45	10	
10/28/2015	354	100	214	45	10	
10/29/2015	358	109	216	45	10	
10/30/2015	353	109	219	45	10	
10/31/2015	348	108	221	45	10	
11/1/2015	340	109	214	45	10	
11/2/2015	334	109	213	45	10	
11/3/2015	321	108	209	45	10	
11/4/2015	325	109	209	45	10	
11/5/2015	326	108	215	45	10	
11/6/2015	307	107	203	45	10	
11/7/2015	306	108	203	45	10	
11/8/2015	289	107	196	45	10	
11/9/2015	275	107	190	45	10	
11/10/2015	263	104	198	45	10	
11/11/2015	267	107	203	45	10	
11/12/2015	265	106	198	45	10	
11/13/2015	259	106	195	45	10	
11/14/2015	267	108	197	45	10	
11/15/2015	263	108	194	45	10	
11/16/2015	259	107	192	45	10	
11/17/2015	257	107	193	45	10	
11/18/2015	247	108	187	45	10	
11/19/2015	251	107	189	45	10	
11/20/2015	249	107	185	45	10	

**Attachment 2: HH1-6 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
11/21/2015	245	108	187	45	10	
11/22/2015	243	108	187	45	10	
11/23/2015	227	105	185	45	10	
11/24/2015	230	107	186	45	10	
11/25/2015	228	107	186	45	10	
11/26/2015	223	107	184	45	10	
11/27/2015	219	108	183	45	10	
11/28/2015	217	108	184	45	10	
11/29/2015	216	106	182	45	10	
11/30/2015	216	107	182	45	10	
12/1/2015	213	107	179	45	10	
12/2/2015	209	107	188	45	10	
12/3/2015	208	107	185	45	10	
12/4/2015	207	107	190	45	10	
12/5/2015	205	107	187	45	10	
12/6/2015	203	107	184	45	10	
12/7/2015	200	108	183	45	10	
12/8/2015	199	107	184	45	10	
12/9/2015	200	107	182	45	10	
12/10/2015	198	107	179	45	10	
12/11/2015	200	107	187	45	10	
12/12/2015	195	108	182	45	10	
12/13/2015	195	108	183	45	10	
12/14/2015	194	108	181	45	10	
12/15/2015	191	108	182	45	10	
12/16/2015	192	106	180	45	10	
12/17/2015	192	106	182	45	10	
12/18/2015	188	106	181	45	10	
12/19/2015	187	106	184	45	10	
12/20/2015	184	107	179	45	10	
12/21/2015	184	108	179	45	10	
12/22/2015	182	107	178	45	10	
12/23/2015	178	107	176	45	10	
12/24/2015	182	106	204	45	10	
12/25/2015	180	107	199	45	10	
12/26/2015	180	107	200	45	10	
12/27/2015	179	107	198	45	10	
12/28/2015	179	106	197	45	10	
12/29/2015	176	107	196	45	9	
12/30/2015	129	113	161	45	9	
12/31/2015	125	112	156	45	7	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

N/A: Data not available

**Attachment 2: HH1-7 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
10/1/2015	150	110	220	47	9	
10/2/2015	150	109	242	47	9	
10/3/2015	151	112	238	47	9	
10/4/2015	148	110	238	47	9	
10/5/2015	141	109	235	47	9	
10/6/2015	145	110	238	47	9	
10/7/2015	144	110	239	47	9	
10/8/2015	140	109	240	47	9	
10/9/2015	137	110	242	47	9	
10/10/2015	135	110	242	47	9	
10/11/2015	134	111	238	47	9	
10/12/2015	134	111	236	47	9	
10/13/2015	133	109	242	47	9	
10/14/2015	132	109	240	47	10	
10/15/2015	135	109	255	47	10	
10/16/2015	137	110	262	47	10	
10/17/2015	136	110	261	47	10	
10/18/2015	139	111	267	47	10	
10/19/2015	138	110	257	47	10	
10/20/2015	137	106	256	47	10	
10/21/2015	139	111	270	47	10	
10/22/2015	138	112	271	47	10	
10/23/2015	134	111	266	47	10	
10/24/2015	133	109	254	47	10	
10/25/2015	131	110	248	47	10	
10/26/2015	130	110	246	47	10	
10/27/2015	129	110	255	47	10	
10/28/2015	128	110	255	47	10	
10/29/2015	130	110	258	47	10	
10/30/2015	134	111	260	47	10	
10/31/2015	135	111	263	47	10	
11/1/2015	134	111	257	47	10	
11/2/2015	130	110	255	47	10	
11/3/2015	127	110	252	47	10	
11/4/2015	130	110	250	47	10	
11/5/2015	129	110	259	47	10	
11/6/2015	127	110	247	47	10	
11/7/2015	130	111	246	47	10	
11/8/2015	128	110	240	47	10	
11/9/2015	126	109	235	47	10	
11/10/2015	126	109	244	47	10	
11/11/2015	126	109	249	47	10	
11/12/2015	126	109	241	47	10	
11/13/2015	125	109	238	47	10	
11/14/2015	126	110	239	47	10	
11/15/2015	126	110	234	47	10	
11/16/2015	125	110	232	47	10	
11/17/2015	125	109	234	47	10	
11/18/2015	123	108	227	47	10	
11/19/2015	123	107	226	47	10	
11/20/2015	122	107	224	47	10	

**Attachment 2: HH1-7 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
11/21/2015	122	107	225	47	10	
11/22/2015	124	109	225	47	10	
11/23/2015	123	108	221	47	10	
11/24/2015	132	109	224	47	10	
11/25/2015	132	109	223	47	10	
11/26/2015	131	109	222	47	10	
11/27/2015	131	109	221	47	10	
11/28/2015	131	110	222	47	10	
11/29/2015	130	109	220	47	10	
11/30/2015	132	109	220	47	10	
12/1/2015	130	109	217	47	9	
12/2/2015	130	109	205	47	9	
12/3/2015	128	110	200	47	9	
12/4/2015	129	110	205	47	9	
12/5/2015	128	110	203	47	9	
12/6/2015	127	110	201	47	9	
12/7/2015	127	110	199	47	9	
12/8/2015	130	109	200	47	9	
12/9/2015	130	110	200	47	9	
12/10/2015	128	110	197	47	9	
12/11/2015	131	109	203	47	9	
12/12/2015	129	110	198	47	9	
12/13/2015	129	110	200	47	9	
12/14/2015	128	110	197	47	9	
12/15/2015	127	111	199	47	9	
12/16/2015	126	109	197	47	9	
12/17/2015	128	110	198	47	9	
12/18/2015	125	109	178	47	8	
12/19/2015	126	109	179	47	8	
12/20/2015	123	110	176	47	8	
12/21/2015	124	110	176	47	8	
12/22/2015	123	109	174	47	8	
12/23/2015	120	110	172	47	8	
12/24/2015	125	110	157	47	8	
12/25/2015	121	109	155	47	8	
12/26/2015	122	110	154	47	8	
12/27/2015	122	109	153	47	8	
12/28/2015	122	109	153	47	8	
12/29/2015	120	109	152	47	6	
12/30/2015	118	110	116	47	8	
12/31/2015	117	108	114	47	6	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

N/A: Data not available

**Attachment 2: HH1-8 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
10/1/2015	330	103	217	42	8	
10/2/2015	322	102	212	42	8	
10/3/2015	310	104	207	41	8	
10/4/2015	315	104	208	41	8	
10/5/2015	301	103	203	39	8	
10/6/2015	297	104	206	40	8	
10/7/2015	306	104	206	40	8	
10/8/2015	304	101	209	41	8	
10/9/2015	305	103	210	41	8	
10/10/2015	317	101	213	41	8	
10/11/2015	305	103	209	41	8	
10/12/2015	299	104	207	41	8	
10/13/2015	290	103	209	41	8	
10/14/2015	284	103	206	41	9	
10/15/2015	284	103	231	41	9	
10/16/2015	279	103	234	41	9	
10/17/2015	274	103	233	41	9	
10/18/2015	274	104	239	41	9	
10/19/2015	269	104	231	41	9	
10/20/2015	262	100	228	41	9	
10/21/2015	266	104	238	41	9	
10/22/2015	260	102	238	41	9	
10/23/2015	253	103	233	41	9	
10/24/2015	244	103	225	41	9	
10/25/2015	242	103	220	41	9	
10/26/2015	238	104	217	41	9	
10/27/2015	238	103	223	41	9	
10/28/2015	233	104	223	41	9	
10/29/2015	233	104	226	41	9	
10/30/2015	237	105	229	41	9	
10/31/2015	242	104	232	42	9	
11/1/2015	234	103	226	42	9	
11/2/2015	233	104	225	42	9	
11/3/2015	230	103	222	42	9	
11/4/2015	206	87	218	41	9	
11/5/2015	244	106	208	42	9	
11/6/2015	232	104	220	42	9	
11/7/2015	228	104	220	42	9	
11/8/2015	218	104	213	42	9	
11/9/2015	215	103	209	42	9	
11/10/2015	215	102	217	42	9	
11/11/2015	225	103	223	42	10	
11/12/2015	227	102	236	42	10	
11/13/2015	223	102	232	42	10	
11/14/2015	225	103	233	42	10	
11/15/2015	218	104	228	42	10	
11/16/2015	214	103	225	42	10	
11/17/2015	212	103	227	42	10	
11/18/2015	203	100	218	42	10	
11/19/2015	202	100	218	42	10	
11/20/2015	202	94	213	41	10	

**Attachment 2: HH1-8 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
11/21/2015	199	95	215	41	10	
11/22/2015	207	103	216	41	10	
11/23/2015	193	102	208	41	10	
11/24/2015	203	102	212	41	10	
11/25/2015	200	103	212	41	10	
11/26/2015	199	104	212	41	10	
11/27/2015	197	104	211	41	10	
11/28/2015	194	105	214	41	11	
11/29/2015	189	103	213	41	10	
11/30/2015	190	103	214	41	10	
12/1/2015	189	103	210	41	11	
12/2/2015	187	103	220	41	10	
12/3/2015	185	103	216	41	10	
12/4/2015	186	103	220	41	10	
12/5/2015	184	103	217	41	10	
12/6/2015	182	103	214	41	10	
12/7/2015	181	103	213	41	10	
12/8/2015	179	103	215	41	10	
12/9/2015	191	102	215	42	10	
12/10/2015	189	103	211	42	10	
12/11/2015	191	102	219	42	10	
12/12/2015	187	104	212	42	10	
12/13/2015	187	104	215	42	10	
12/14/2015	184	104	212	42	10	
12/15/2015	183	104	213	42	10	
12/16/2015	182	103	214	42	10	
12/17/2015	182	102	216	42	10	
12/18/2015	178	102	215	42	10	
12/19/2015	178	102	218	42	10	
12/20/2015	175	103	214	42	10	
12/21/2015	175	103	214	42	10	
12/22/2015	173	103	211	42	10	
12/23/2015	171	103	210	42	10	
12/24/2015	171	102	206	42	10	
12/25/2015	169	102	204	42	10	
12/26/2015	167	102	204	42	10	
12/27/2015	166	101	203	42	10	
12/28/2015	166	101	202	42	10	
12/29/2015	164	102	201	42	8	
12/30/2015	163	102	172	42	11	
12/31/2015	160	101	168	42	9	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

N/A: Data not available

**Attachment 2: HH1-9 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
10/1/2015	422	103	413	49	17	
10/2/2015	436	101	408	48	17	
10/3/2015	428	102	403	48	17	
10/4/2015	438	101	404	48	17	
10/5/2015	428	101	397	47	17	
10/6/2015	433	101	403	47	17	
10/7/2015	433	102	403	47	17	
10/8/2015	472	102	412	48	17	
10/9/2015	486	99	416	47	17	
10/10/2015	485	99	417	48	17	
10/11/2015	470	101	410	48	17	
10/12/2015	459	102	405	47	17	
10/13/2015	467	101	411	48	17	
10/14/2015	460	102	405	48	18	
10/15/2015	453	101	422	48	18	
10/16/2015	457	101	411	48	18	
10/17/2015	449	102	407	48	18	
10/18/2015	449	103	393	48	17	
10/19/2015	427	103	393	48	17	
10/20/2015	430	96	373	48	17	
10/21/2015	438	102	374	48	17	
10/22/2015	428	101	409	48	17	
10/23/2015	421	102	401	48	17	
10/24/2015	403	101	385	48	17	
10/25/2015	403	101	378	48	17	
10/26/2015	397	102	374	48	17	
10/27/2015	402	101	382	48	17	
10/28/2015	397	102	382	48	18	
10/29/2015	382	101	354	47	17	
10/30/2015	389	102	371	47	17	
10/31/2015	388	102	382	47	17	
11/1/2015	383	102	373	48	17	
11/2/2015	384	102	355	48	17	
11/3/2015	384	101	350	48	17	
11/4/2015	380	102	347	48	16	
11/5/2015	383	102	360	48	16	
11/6/2015	373	101	342	49	16	
11/7/2015	384	101	359	49	16	
11/8/2015	393	101	352	49	16	
11/9/2015	385	102	347	49	17	
11/10/2015	375	101	319	49	16	
11/11/2015	374	101	304	49	18	
11/12/2015	385	100	360	49	18	
11/13/2015	383	100	353	49	18	
11/14/2015	376	102	355	49	18	
11/15/2015	372	102	347	49	18	
11/16/2015	366	101	343	49	18	
11/17/2015	364	102	330	49	18	
11/18/2015	362	103	367	49	18	
11/19/2015	366	102	350	49	18	
11/20/2015	368	102	364	49	18	

**Attachment 2: HH1-9 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
11/21/2015	364	103	352	49	18	
11/22/2015	366	101	352	49	18	
11/23/2015	355	101	345	49	18	
11/24/2015	376	101	373	49	18	
11/25/2015	370	102	371	49	18	
11/26/2015	368	102	369	49	18	
11/27/2015	366	102	367	49	18	
11/28/2015	358	103	337	49	18	
11/29/2015	347	100	334	49	18	
11/30/2015	350	101	333	49	18	
12/1/2015	350	101	342	49	17	
12/2/2015	356	101	339	49	17	
12/3/2015	351	102	334	49	16	
12/4/2015	354	102	339	49	16	
12/5/2015	352	101	335	49	16	
12/6/2015	349	101	332	49	16	
12/7/2015	346	102	334	49	16	
12/8/2015	346	102	333	49	16	
12/9/2015	346	101	316	49	16	
12/10/2015	341	101	325	49	16	
12/11/2015	347	103	326	49	16	
12/12/2015	338	101	328	49	16	
12/13/2015	347	102	326	49	16	
12/14/2015	345	102	331	49	16	
12/15/2015	343	103	316	49	15	
12/16/2015	336	101	309	49	15	
12/17/2015	336	101	312	49	15	
12/18/2015	330	101	310	49	15	
12/19/2015	333	101	312	49	15	
12/20/2015	327	102	306	49	15	
12/21/2015	327	102	311	49	15	
12/22/2015	325	102	304	49	15	
12/23/2015	321	102	301	49	14	
12/24/2015	323	102	298	49	14	
12/25/2015	318	101	294	49	14	
12/26/2015	316	102	297	49	14	
12/27/2015	322	101	292	49	14	
12/28/2015	319	102	293	49	14	
12/29/2015	316	102	288	49	15	
12/30/2015	327	104	315	49	14	
12/31/2015	320	103	308	49	15	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

N/A: Data not available

**Attachment 2: HH1-10 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
10/1/2015	253	112	294	52	15	
10/2/2015	255	111	305	52	16	
10/3/2015	254	111	307	52	16	
10/4/2015	234	114	302	50	17	
10/5/2015	229	111	293	51	16	
10/6/2015	234	112	310	52	17	
10/7/2015	233	112	306	53	16	
10/8/2015	233	112	309	54	16	
10/9/2015	234	112	308	54	16	
10/10/2015	231	112	305	54	16	
10/11/2015	232	112	289	54	16	
10/12/2015	231	112	285	54	15	
10/13/2015	234	112	283	54	16	
10/14/2015	232	112	297	53	16	
10/15/2015	247	112	299	53	16	
10/16/2015	245	112	307	53	16	
10/17/2015	242	112	303	53	16	
10/18/2015	239	112	324	53	16	
10/19/2015	231	114	299	53	16	
10/20/2015	227	114	299	53	16	
10/21/2015	237	112	321	53	16	
10/22/2015	229	112	325	53	16	
10/23/2015	234	112	303	53	17	
10/24/2015	231	112	253	53	14	
10/25/2015	230	112	246	53	14	
10/26/2015	226	112	239	53	14	
10/27/2015	224	112	252	53	14	
10/28/2015	225	112	250	53	14	
10/29/2015	234	112	256	53	14	
10/30/2015	232	112	264	50	13	
10/31/2015	220	112	257	50	13	
11/1/2015	221	112	249	50	13	
11/2/2015	215	112	246	50	13	
11/3/2015	213	112	241	50	13	
11/4/2015	211	112	241	50	13	
11/5/2015	214	112	250	50	13	
11/6/2015	205	112	235	50	12	
11/7/2015	203	112	222	50	12	
11/8/2015	194	112	215	50	12	
11/9/2015	186	112	210	50	13	
11/10/2015	182	112	205	50	11	
11/11/2015	180	112	209	50	11	
11/12/2015	178	112	200	50	12	
11/13/2015	177	112	198	50	12	
11/14/2015	177	112	218	50	12	
11/15/2015	177	112	211	50	12	
11/16/2015	175	112	209	50	12	
11/17/2015	178	112	203	50	12	
11/18/2015	173	112	188	50	12	
11/19/2015	171	112	193	50	12	
11/20/2015	160	112	176	48	11	

**Attachment 2: HH1-10 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
11/21/2015	160	112	175	47	11	
11/22/2015	159	112	190	47	10	
11/23/2015	151	112	157	46	10	
11/24/2015	161	112	162	47	10	
11/25/2015	166	112	161	47	10	
11/26/2015	160	112	162	47	10	
11/27/2015	154	112	160	47	10	
11/28/2015	151	112	163	47	10	
11/29/2015	152	112	160	48	10	
11/30/2015	152	112	161	48	10	
12/1/2015	151	112	159	48	10	
12/2/2015	150	112	166	48	10	
12/3/2015	147	112	162	48	10	
12/4/2015	147	112	165	48	10	
12/5/2015	145	112	166	48	10	
12/6/2015	143	112	164	48	10	
12/7/2015	141	112	164	48	10	
12/8/2015	140	112	167	48	10	
12/9/2015	137	112	166	48	10	
12/10/2015	136	112	163	48	10	
12/11/2015	173	112	179	49	10	
12/12/2015	165	112	171	49	10	
12/13/2015	165	112	172	49	10	
12/14/2015	163	112	170	49	10	
12/15/2015	161	112	173	49	10	
12/16/2015	160	112	172	49	10	
12/17/2015	159	112	173	49	10	
12/18/2015	160	112	173	49	10	
12/19/2015	163	112	176	49	10	
12/20/2015	161	112	171	49	10	
12/21/2015	161	112	171	49	10	
12/22/2015	159	112	170	49	10	
12/23/2015	158	112	168	49	10	
12/24/2015	157	112	162	49	10	
12/25/2015	157	112	161	49	10	
12/26/2015	156	112	160	49	10	
12/27/2015	155	112	159	49	10	
12/28/2015	155	112	158	49	10	
12/29/2015	154	112	155	49	9	
12/30/2015	154	112	143	49	10	
12/31/2015	153	112	138	49	9	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

N/A: Data not available

**Attachment 2: HH1-11 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
10/1/2015	575	109	589	51	26	
10/2/2015	555	109	567	51	26	
10/3/2015	549	110	571	51	26	
10/4/2015	546	110	565	51	26	
10/5/2015	531	111	549	51	26	
10/6/2015	604	112	585	51	27	
10/7/2015	588	112	590	51	27	
10/8/2015	576	112	590	51	27	
10/9/2015	567	112	587	51	27	
10/10/2015	552	112	579	51	27	
10/11/2015	545	112	571	51	27	
10/12/2015	537	112	565	51	27	
10/13/2015	525	112	570	51	27	
10/14/2015	517	114	557	51	27	
10/15/2015	549	112	575	51	26	
10/16/2015	532	112	568	51	25	
10/17/2015	518	112	546	51	25	
10/18/2015	516	112	510	47	22	
10/19/2015	471	107	490	46	22	
10/20/2015	443	111	482	49	22	
10/21/2015	447	112	498	49	23	
10/22/2015	569	112	576	51	24	
10/23/2015	519	112	550	51	24	
10/24/2015	478	112	526	51	24	
10/25/2015	458	112	512	51	24	
10/26/2015	440	112	500	51	24	
10/27/2015	439	112	470	51	24	
10/28/2015	428	112	467	51	24	
10/29/2015	438	112	478	51	24	
10/30/2015	462	112	497	51	24	
10/31/2015	503	112	514	51	24	
11/1/2015	483	112	499	51	24	
11/2/2015	471	112	494	51	24	
11/3/2015	457	112	485	51	24	
11/4/2015	462	112	481	51	24	
11/5/2015	457	112	494	51	24	
11/6/2015	437	112	467	51	24	
11/7/2015	431	112	465	51	24	
11/8/2015	405	112	448	51	24	
11/9/2015	406	112	439	51	24	
11/10/2015	399	112	439	50	23	
11/11/2015	419	112	467	51	23	
11/12/2015	438	112	463	51	24	
11/13/2015	404	112	462	51	24	
11/14/2015	421	112	470	51	24	
11/15/2015	387	112	454	51	24	
11/16/2015	379	112	448	51	24	
11/17/2015	406	112	462	51	24	
11/18/2015	408	112	456	51	24	
11/19/2015	394	112	452	51	24	
11/20/2015	389	112	435	51	23	

**Attachment 2: HH1-11 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
11/21/2015	407	112	443	50	23	
11/22/2015	390	112	441	50	23	
11/23/2015	372	112	422	50	23	
11/24/2015	399	112	439	50	23	
11/25/2015	391	112	432	51	23	
11/26/2015	378	112	434	51	23	
11/27/2015	369	112	432	51	23	
11/28/2015	359	112	435	51	23	
11/29/2015	345	112	431	51	23	
11/30/2015	337	112	428	51	23	
12/1/2015	332	112	421	51	21	
12/2/2015	323	112	405	51	21	
12/3/2015	328	112	397	51	21	
12/4/2015	363	112	409	51	21	
12/5/2015	403	112	415	51	21	
12/6/2015	393	112	409	51	20	
12/7/2015	379	112	391	51	20	
12/8/2015	397	112	401	51	20	
12/9/2015	393	112	399	51	20	
12/10/2015	380	112	391	51	20	
12/11/2015	397	112	402	51	18	
12/12/2015	371	112	390	51	19	
12/13/2015	366	112	393	51	19	
12/14/2015	366	112	389	51	17	
12/15/2015	361	112	358	51	17	
12/16/2015	350	112	350	51	17	
12/17/2015	343	112	357	51	17	
12/18/2015	330	112	355	51	17	
12/19/2015	321	112	362	51	17	
12/20/2015	309	112	352	51	17	
12/21/2015	305	112	351	51	17	
12/22/2015	306	112	346	51	17	
12/23/2015	303	112	344	51	18	
12/24/2015	316	112	366	51	18	
12/25/2015	307	112	361	51	18	
12/26/2015	302	112	359	51	18	
12/27/2015	294	112	355	51	18	
12/28/2015	289	112	351	51	18	
12/29/2015	285	112	348	51	19	
12/30/2015	286	112	360	51	19	
12/31/2015	283	112	368	51	19	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

N/A: Data not available

**Attachment 2: HH1-12 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
10/1/2015	--	--	--	--	--	
10/2/2015	--	--	--	--	--	
10/3/2015	--	--	--	--	--	
10/4/2015	--	--	--	--	--	
10/5/2015	--	--	--	--	--	
10/6/2015	--	--	--	--	--	
10/7/2015	--	--	--	--	--	
10/8/2015	--	--	--	--	--	
10/9/2015	--	--	--	--	--	
10/10/2015	--	--	--	--	--	
10/11/2015	--	--	--	--	--	
10/12/2015	--	--	--	--	--	
10/13/2015	--	--	--	--	--	
10/14/2015	--	--	--	--	--	
10/15/2015	--	--	--	--	--	
10/16/2015	--	--	--	--	--	
10/17/2015	--	--	--	--	--	
10/18/2015	--	--	--	--	--	
10/19/2015	--	--	--	--	--	
10/20/2015	--	--	--	--	--	
10/21/2015	--	--	--	--	--	
10/22/2015	--	--	--	--	--	
10/23/2015	--	--	--	--	--	
10/24/2015	--	--	--	--	--	
10/25/2015	--	--	--	--	--	
10/26/2015	--	--	--	--	--	
10/27/2015	--	--	--	--	--	
10/28/2015	--	--	--	--	--	
10/29/2015	--	--	--	--	--	
10/30/2015	--	--	--	--	--	
10/31/2015	--	--	--	--	--	
11/1/2015	--	--	--	--	--	
11/2/2015	--	--	--	--	--	
11/3/2015	--	--	--	--	--	
11/4/2015	--	--	--	--	--	
11/5/2015	--	--	--	--	--	
11/6/2015	--	--	--	--	--	
11/7/2015	--	--	--	--	--	
11/8/2015	--	--	--	--	--	
11/9/2015	--	--	--	--	--	
11/10/2015	--	--	--	--	--	
11/11/2015	--	--	--	--	--	
11/12/2015	--	--	--	--	--	
11/13/2015	--	--	--	--	--	
11/14/2015	--	--	--	--	--	
11/15/2015	--	--	--	--	--	
11/16/2015	--	--	--	--	--	
11/17/2015	446	137	495	47	28	HH1-12 started
11/18/2015	489	105	455	48	28	
11/19/2015	602	105	588	50	28	
11/20/2015	612	105	593	50	28	

**Attachment 2: HH1-12 Operational Flow Summary
4th Quarter 2015
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
11/21/2015	609	103	601	50	28	
11/22/2015	631	107	605	50	28	
11/23/2015	596	113	564	50	27	
11/24/2015	549	105	554	50	27	
11/25/2015	542	105	542	50	27	
11/26/2015	575	105	551	50	27	
11/27/2015	596	105	554	50	27	
11/28/2015	571	105	526	50	27	
11/29/2015	608	105	544	50	27	
11/30/2015	597	105	541	50	27	
12/1/2015	585	105	531	50	27	
12/2/2015	580	105	552	50	27	
12/3/2015	568	105	542	50	27	
12/4/2015	558	105	555	50	27	
12/5/2015	554	105	551	50	27	
12/6/2015	545	105	545	50	27	
12/7/2015	543	105	545	50	27	
12/8/2015	592	105	561	50	27	
12/9/2015	550	105	543	50	27	
12/10/2015	542	105	532	50	27	
12/11/2015	543	105	563	50	27	
12/12/2015	553	105	546	49	27	
12/13/2015	570	105	551	49	27	
12/14/2015	561	105	545	49	27	
12/15/2015	542	105	546	49	27	
12/16/2015	528	105	534	50	27	
12/17/2015	569	105	549	50	27	
12/18/2015	587	105	547	50	27	
12/19/2015	625	105	566	50	27	
12/20/2015	604	105	550	50	27	
12/21/2015	593	105	547	50	27	
12/22/2015	582	105	539	50	27	
12/23/2015	580	105	536	50	24	
12/24/2015	554	105	489	50	24	
12/25/2015	539	105	481	50	24	
12/26/2015	537	105	478	50	24	
12/27/2015	530	105	473	50	24	
12/28/2015	524	105	467	50	24	
12/29/2015	525	105	465	50	24	
12/30/2015	521	105	470	50	24	
12/31/2015	508	105	454	50	24	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

N/A: Data not available

**Attachment 3: Groundwater Level Measurement Data
4th Quarter 2015
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-101	MU1 Ring	10/7/2015	200.13	
M-101	MU1 Ring	10/21/2015	199.72	
M-101	MU1 Ring	11/4/2015	196.74	
M-101	MU1 Ring	11/17/2015	193.76	
M-101	MU1 Ring	12/2/2015	192.53	
M-101	MU1 Ring	12/17/2015	186.47	
M-102	MU1 Ring	10/7/2015	205.00	
M-102	MU1 Ring	10/21/2015	204.82	
M-102	MU1 Ring	11/4/2015	201.86	
M-102	MU1 Ring	11/17/2015	199.16	
M-102	MU1 Ring	12/2/2015	197.00	
M-102	MU1 Ring	12/17/2015	190.70	
M-103A	MU1 Ring	10/7/2015	200.78	
M-103A	MU1 Ring	10/21/2015	200.89	
M-103A	MU1 Ring	11/4/2015	197.62	
M-103A	MU1 Ring	11/17/2015	194.02	
M-103A	MU1 Ring	12/2/2015	191.82	
M-103A	MU1 Ring	12/17/2015	180.00	
M-104	MU1 Ring	10/7/2015	221.84	
M-104	MU1 Ring	10/21/2015	222.62	
M-104	MU1 Ring	11/4/2015	215.63	
M-104	MU1 Ring	11/17/2015	210.22	
M-104	MU1 Ring	12/2/2015	210.55	
M-104	MU1 Ring	12/21/2015	189.73	
M-105	MU1 Ring	10/7/2015	227.74	
M-105	MU1 Ring	10/21/2015	225.10	
M-105	MU1 Ring	11/4/2015	219.13	
M-105	MU1 Ring	11/17/2015	212.28	
M-105	MU1 Ring	12/2/2015	219.13	
M-105	MU1 Ring	12/21/2015	193.70	
M-106	MU1 Ring	10/7/2015	226.26	
M-106	MU1 Ring	10/21/2015	218.51	
M-106	MU1 Ring	11/4/2015	215.82	
M-106	MU1 Ring	11/17/2015	209.80	
M-106	MU1 Ring	12/2/2015	210.22	
M-106	MU1 Ring	12/21/2015	190.65	
M-107	MU1 Ring	10/7/2015	226.99	
M-107	MU1 Ring	10/21/2015	220.58	
M-107	MU1 Ring	11/4/2015	216.97	
M-107	MU1 Ring	11/17/2015	214.17	
M-107	MU1 Ring	12/2/2015	214.03	
M-107	MU1 Ring	12/21/2015	201.18	
M-108	MU1 Ring	10/7/2015	227.30	
M-108	MU1 Ring	10/21/2015	220.01	
M-108	MU1 Ring	11/4/2015	216.36	
M-108	MU1 Ring	11/17/2015	214.00	
M-108	MU1 Ring	12/2/2015	212.37	
M-108	MU1 Ring	12/21/2015	201.80	
M-109	MU1 Ring	10/7/2015	217.23	

**Attachment 3: Groundwater Level Measurement Data
4th Quarter 2015
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-109	MU1 Ring	10/21/2015	209.55	
M-109	MU1 Ring	11/4/2015	207.86	
M-109	MU1 Ring	11/17/2015	206.92	
M-109	MU1 Ring	12/2/2015	201.74	
M-109	MU1 Ring	12/21/2015	197.20	
M-110	MU1 Ring	10/7/2015	209.00	
M-110	MU1 Ring	10/21/2015	205.89	
M-110	MU1 Ring	11/4/2015	206.97	
M-110	MU1 Ring	11/17/2015	204.42	
M-110	MU1 Ring	12/2/2015	198.55	
M-110	MU1 Ring	12/21/2015	201.83	
M-111	MU1 Ring	10/7/2015	192.73	
M-111	MU1 Ring	10/21/2015	193.37	
M-111	MU1 Ring	11/4/2015	195.62	
M-111	MU1 Ring	11/17/2015	191.50	
M-111	MU1 Ring	12/2/2015	198.62	
M-111	MU1 Ring	12/21/2015	193.98	
M-112	MU1 Ring	10/7/2015	199.83	
M-112	MU1 Ring	10/21/2015	200.03	
M-112	MU1 Ring	11/4/2015	202.87	
M-112	MU1 Ring	11/17/2015	199.00	
M-112	MU1 Ring	12/2/2015	182.57	
M-112	MU1 Ring	12/21/2015	202.95	
M-113	MU1 Ring	10/6/2015	204.29	
M-113	MU1 Ring	10/21/2015	203.60	
M-113	MU1 Ring	11/4/2015	212.23	
M-113	MU1 Ring	11/17/2015	210.00	
M-113	MU1 Ring	12/2/2015	207.33	
M-113	MU1 Ring	12/17/2015	215.00	
M-114A	MU1 Ring	10/6/2015	197.53	
M-114A	MU1 Ring	10/21/2015	198.76	
M-114A	MU1 Ring	11/4/2015	179.03	
M-114A	MU1 Ring	11/17/2015	178.13	
M-114A	MU1 Ring	12/2/2015	178.52	
M-114A	MU1 Ring	12/17/2015	180.97	
M-115A	MU1 Ring	10/6/2015	192.71	
M-115A	MU1 Ring	10/21/2015	193.48	
M-115A	MU1 Ring	11/4/2015	170.92	
M-115A	MU1 Ring	11/17/2015	170.70	
M-115A	MU1 Ring	12/2/2015	170.50	
M-115A	MU1 Ring	12/17/2015	171.12	
M-116A	MU1 Ring	10/6/2015	189.50	
M-116A	MU1 Ring	10/21/2015	183.00	
M-116A	MU1 Ring	11/4/2015	159.39	
M-116A	MU1 Ring	11/17/2015	161.93	
M-116A	MU1 Ring	12/2/2015	161.38	
M-116A	MU1 Ring	12/17/2015	170.11	
M-117	MU1 Ring	10/6/2015	191.29	
M-117	MU1 Ring	10/21/2015	193.02	

**Attachment 3: Groundwater Level Measurement Data
4th Quarter 2015
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-117	MU1 Ring	11/4/2015	169.65	
M-117	MU1 Ring	11/17/2015	175.68	
M-117	MU1 Ring	12/2/2015	174.57	
M-117	MU1 Ring	12/17/2015	177.90	
M-118	MU1 Ring	10/6/2015	179.77	
M-118	MU1 Ring	10/21/2015	179.83	
M-118	MU1 Ring	11/4/2015	166.14	
M-118	MU1 Ring	11/17/2015	172.14	
M-118	MU1 Ring	12/2/2015	173.09	
M-118	MU1 Ring	12/17/2015	175.67	
M-119	MU1 Ring	10/6/2015	177.01	
M-119	MU1 Ring	10/21/2015	178.83	
M-119	MU1 Ring	11/4/2015	167.42	
M-119	MU1 Ring	11/17/2015	175.70	
M-119	MU1 Ring	12/2/2015	178.12	
M-119	MU1 Ring	12/17/2015	180.50	
M-120A	MU1 Ring	10/6/2015	171.12	
M-120A	MU1 Ring	10/21/2015	173.90	
M-120A	MU1 Ring	11/4/2015	167.05	
M-120A	MU1 Ring	11/17/2015	184.10	
M-120A	MU1 Ring	12/2/2015	188.15	
M-120A	MU1 Ring	12/17/2015	189.30	
M-121	MU1 Ring	10/6/2015	173.18	
M-121	MU1 Ring	10/21/2015	176.07	
M-121	MU1 Ring	11/4/2015	178.33	
M-121	MU1 Ring	11/17/2015	184.31	
M-121	MU1 Ring	12/2/2015	187.60	
M-121	MU1 Ring	12/17/2015	188.22	
M-122	MU1 Ring	10/6/2015	171.90	
M-122	MU1 Ring	10/21/2015	175.19	
M-122	MU1 Ring	11/4/2015	178.77	
M-122	MU1 Ring	11/17/2015	184.13	
M-122	MU1 Ring	12/2/2015	188.07	
M-122	MU1 Ring	12/17/2015	188.94	
M-123	MU1 Ring	10/6/2015	167.63	
M-123	MU1 Ring	10/21/2015	170.92	
M-123	MU1 Ring	11/4/2015	175.02	
M-123	MU1 Ring	11/17/2015	180.23	
M-123	MU1 Ring	12/2/2015	184.63	
M-123	MU1 Ring	12/17/2015	188.52	
M-124	MU1 Ring	10/6/2015	170.03	
M-124	MU1 Ring	10/21/2015	173.62	
M-124	MU1 Ring	11/4/2015	177.14	
M-124	MU1 Ring	11/17/2015	182.60	
M-124	MU1 Ring	12/2/2015	187.06	
M-124	MU1 Ring	12/17/2015	186.94	
M-125	MU1 Ring	10/6/2015	161.88	
M-125	MU1 Ring	10/21/2015	174.15	
M-125	MU1 Ring	11/4/2015	169.67	

**Attachment 3: Groundwater Level Measurement Data
4th Quarter 2015
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-125	MU1 Ring	11/17/2015	173.27	
M-125	MU1 Ring	12/2/2015	176.71	
M-125	MU1 Ring	12/17/2015	176.60	
M-126	MU1 Ring	10/6/2015	167.00	
M-126	MU1 Ring	10/21/2015	168.24	
M-126	MU1 Ring	11/4/2015	172.53	
M-126	MU1 Ring	11/17/2015	175.74	
M-126	MU1 Ring	12/2/2015	179.08	
M-126	MU1 Ring	12/17/2015	178.93	
M-127	MU1 Ring	10/6/2015	191.78	
M-127	MU1 Ring	10/21/2015	195.00	
M-127	MU1 Ring	11/4/2015	189.60	
M-127	MU1 Ring	11/17/2015	187.69	
M-127	MU1 Ring	12/2/2015	185.70	
M-127	MU1 Ring	12/17/2015	182.38	
M-128	MU1 Ring	10/6/2015	195.53	
M-128	MU1 Ring	10/21/2015	195.60	
M-128	MU1 Ring	11/4/2015	192.72	
M-128	MU1 Ring	11/17/2015	190.05	
M-128	MU1 Ring	12/2/2015	187.55	
M-128	MU1 Ring	12/17/2015	183.99	
MO-101	MU1 Overlying	10/7/2015	165.24	
MO-101	MU1 Overlying	10/22/2015	165.40	
MO-101	MU1 Overlying	11/5/2015	165.25	
MO-101	MU1 Overlying	11/18/2015	166.42	
MO-101	MU1 Overlying	12/2/2015	164.47	
MO-101	MU1 Overlying	12/21/2015	162.91	
MO-102	MU1 Overlying	10/7/2015	169.14	
MO-102	MU1 Overlying	10/22/2015	167.83	
MO-102	MU1 Overlying	11/5/2015	168.43	
MO-102	MU1 Overlying	11/18/2015	168.14	
MO-102	MU1 Overlying	12/2/2015	168.27	
MO-102	MU1 Overlying	12/21/2015	165.91	
MO-103	MU1 Overlying	10/7/2015	162.17	
MO-103	MU1 Overlying	10/22/2015	162.57	
MO-103	MU1 Overlying	11/5/2015	162.07	
MO-103	MU1 Overlying	11/18/2015	162.63	
MO-103	MU1 Overlying	12/3/2015	163.12	
MO-103	MU1 Overlying	12/21/2015	162.18	
MO-104	MU1 Overlying	10/7/2015	171.30	
MO-104	MU1 Overlying	10/22/2015	173.82	
MO-104	MU1 Overlying	11/5/2015	173.42	
MO-104	MU1 Overlying	11/18/2015	173.69	
MO-104	MU1 Overlying	12/3/2015	178.60	
MO-104	MU1 Overlying	12/21/2015	177.82	
MO-105	MU1 Overlying	10/7/2015	162.32	
MO-105	MU1 Overlying	10/22/2015	173.82	
MO-105	MU1 Overlying	11/5/2015	165.97	
MO-105	MU1 Overlying	11/18/2015	165.39	

**Attachment 3: Groundwater Level Measurement Data
4th Quarter 2015
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
MO-105	MU1 Overlying	12/3/2015	171.16	
MO-105	MU1 Overlying	12/21/2015	170.74	
MO-106	MU1 Overlying	10/7/2015	159.60	
MO-106	MU1 Overlying	10/22/2015	161.04	
MO-106	MU1 Overlying	11/5/2015	166.23	
MO-106	MU1 Overlying	11/18/2015	165.79	
MO-106	MU1 Overlying	12/3/2015	165.13	
MO-106	MU1 Overlying	12/21/2015	164.39	
MO-107	MU1 Overlying	10/7/2015	156.34	
MO-107	MU1 Overlying	10/22/2015	154.20	
MO-107	MU1 Overlying	11/5/2015	153.89	
MO-107	MU1 Overlying	11/18/2015	157.51	
MO-107	MU1 Overlying	12/3/2015	158.21	
MO-107	MU1 Overlying	12/21/2015	164.39	
MO-108	MU1 Overlying	10/7/2015	155.79	
MO-108	MU1 Overlying	10/22/2015	148.50	
MO-108	MU1 Overlying	11/5/2015	148.92	
MO-108	MU1 Overlying	11/18/2015	154.92	
MO-108	MU1 Overlying	12/3/2015	154.63	
MO-108	MU1 Overlying	12/21/2015	153.71	
MO-109	MU1 Overlying	10/7/2015	NM	Missed measurement
MO-109	MU1 Overlying	10/22/2015	170.37	
MO-109	MU1 Overlying	11/5/2015	171.21	
MO-109	MU1 Overlying	11/18/2015	170.20	
MO-109	MU1 Overlying	12/3/2015	170.39	
MO-109	MU1 Overlying	12/21/2015	169.56	
MO-110	MU1 Overlying	10/7/2015	162.33	
MO-110	MU1 Overlying	10/22/2015	158.73	
MO-110	MU1 Overlying	11/5/2015	157.88	
MO-110	MU1 Overlying	11/18/2015	158.21	
MO-110	MU1 Overlying	12/3/2015	157.86	
MO-110	MU1 Overlying	12/21/2015	155.49	
MO-111	MU1 Overlying	10/7/2015	162.40	
MO-111	MU1 Overlying	10/22/2015	158.28	
MO-111	MU1 Overlying	11/5/2015	160.41	
MO-111	MU1 Overlying	11/18/2015	161.02	
MO-111	MU1 Overlying	12/3/2015	167.59	
MO-111	MU1 Overlying	12/21/2015	168.12	
MO-112	MU1 Overlying	10/7/2015	165.33	
MO-112	MU1 Overlying	10/22/2015	164.19	
MO-112	MU1 Overlying	11/5/2015	164.59	
MO-112	MU1 Overlying	11/18/2015	164.91	
MO-112	MU1 Overlying	12/4/2015	161.84	
MO-112	MU1 Overlying	12/21/2015	160.22	
MO-113	MU1 Overlying	10/7/2015	162.31	
MO-113	MU1 Overlying	10/22/2015	161.03	
MO-113	MU1 Overlying	11/5/2015	162.16	
MO-113	MU1 Overlying	11/13/2015	162.89	
MO-113	MU1 Overlying	12/4/2015	159.90	

**Attachment 3: Groundwater Level Measurement Data
4th Quarter 2015
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
MO-113	MU1 Overlying	12/21/2015	159.49	
MO-LC0254	MU1 Overlying	10/7/2015	167.18	
MO-LC0254	MU1 Overlying	10/22/2015	166.42	
MO-LC0254	MU1 Overlying	11/5/2015	167.13	
MO-LC0254	MU1 Overlying	11/18/2015	167.84	
MO-LC0254	MU1 Overlying	12/4/2015	167.59	
MO-LC0254	MU1 Overlying	12/21/2015	166.72	
MU-101	MU1 Underlying	10/7/2015	197.80	
MU-101	MU1 Underlying	10/22/2015	197.47	
MU-101	MU1 Underlying	11/5/2015	196.97	
MU-101	MU1 Underlying	11/18/2015	195.83	
MU-101	MU1 Underlying	12/2/2015	196.18	
MU-101	MU1 Underlying	12/21/2015	193.23	
MU-102	MU1 Underlying	10/7/2015	199.86	
MU-102	MU1 Underlying	10/22/2015	199.53	
MU-102	MU1 Underlying	11/5/2015	198.70	
MU-102	MU1 Underlying	11/18/2015	197.97	
MU-102	MU1 Underlying	12/2/2015	197.66	
MU-102	MU1 Underlying	12/21/2015	196.88	
MU-103	MU1 Underlying	10/7/2015	196.02	
MU-103	MU1 Underlying	10/22/2015	195.73	
MU-103	MU1 Underlying	11/5/2015	194.83	
MU-103	MU1 Underlying	11/18/2015	194.41	
MU-103	MU1 Underlying	12/3/2015	194.62	
MU-103	MU1 Underlying	12/21/2015	191.02	
MU-104	MU1 Underlying	10/7/2015	201.12	
MU-104	MU1 Underlying	10/22/2015	201.57	
MU-104	MU1 Underlying	11/5/2015	198.69	
MU-104	MU1 Underlying	11/18/2015	197.89	
MU-104	MU1 Underlying	12/3/2015	198.04	
MU-104	MU1 Underlying	12/21/2015	198.62	
MU-105	MU1 Underlying	10/7/2015	203.31	
MU-105	MU1 Underlying	10/22/2015	204.92	
MU-105	MU1 Underlying	11/5/2015	204.53	
MU-105	MU1 Underlying	11/18/2015	204.81	
MU-105	MU1 Underlying	12/3/2015	206.72	
MU-105	MU1 Underlying	12/21/2015	205.49	
MU-106	MU1 Underlying	10/7/2015	197.86	
MU-106	MU1 Underlying	10/22/2015	198.36	
MU-106	MU1 Underlying	11/5/2015	198.00	
MU-106	MU1 Underlying	11/18/2015	197.89	
MU-106	MU1 Underlying	12/3/2015	198.41	
MU-106	MU1 Underlying	12/21/2015	198.09	
MU-107	MU1 Underlying	10/7/2015	196.60	
MU-107	MU1 Underlying	10/22/2015	197.26	
MU-107	MU1 Underlying	11/5/2015	197.42	
MU-107	MU1 Underlying	11/18/2015	197.03	
MU-107	MU1 Underlying	12/3/2015	198.72	
MU-107	MU1 Underlying	12/21/2015	198.09	

**Attachment 3: Groundwater Level Measurement Data
4th Quarter 2015
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
KPW-2	MU1 Underlying	10/7/2015	198.50	
KPW-2	MU1 Underlying	10/22/2015	198.78	
KPW-2	MU1 Underlying	11/5/2015	197.98	
KPW-2	MU1 Underlying	11/18/2015	198.33	
KPW-2	MU1 Underlying	12/3/2015	198.49	
KPW-2	MU1 Underlying	12/21/2015	197.85	
MU-109	MU1 Underlying	10/14/2015	209.38	
MU-109	MU1 Underlying	10/26/2015	216.56	
MU-109	MU1 Underlying	11/5/2015	216.41	
MU-109	MU1 Underlying	11/18/2015	204.12	
MU-109	MU1 Underlying	12/3/2015	204.84	
MU-109	MU1 Underlying	12/21/2015	203.91	
MU-110	MU1 Underlying	10/7/2015	203.57	
MU-110	MU1 Underlying	10/22/2015	204.02	
MU-110	MU1 Underlying	11/5/2015	203.89	
MU-110	MU1 Underlying	11/18/2015	204.43	
MU-110	MU1 Underlying	12/3/2015	202.10	
MU-110	MU1 Underlying	12/21/2015	201.38	
MU-111	MU1 Underlying	10/7/2015	202.43	
MU-111	MU1 Underlying	10/22/2015	202.72	
MU-111	MU1 Underlying	11/5/2015	201.32	
MU-111	MU1 Underlying	11/18/2015	201.76	
MU-111	MU1 Underlying	12/3/2015	200.55	
MU-111	MU1 Underlying	12/21/2015	201.26	
MU-112	MU1 Underlying	10/7/2015	203.43	
MU-112	MU1 Underlying	10/22/2015	203.95	
MU-112	MU1 Underlying	11/5/2015	202.89	
MU-112	MU1 Underlying	11/18/2015	202.31	
MU-112	MU1 Underlying	12/3/2015	202.03	
MU-112	MU1 Underlying	12/21/2015	201.79	
MU-113	MU1 Underlying	10/7/2015	192.10	
MU-113	MU1 Underlying	10/22/2015	192.20	
MU-113	MU1 Underlying	11/5/2015	191.99	
MU-113	MU1 Underlying	11/18/2015	192.37	
MU-113	MU1 Underlying	12/4/2015	189.90	
MU-113	MU1 Underlying	12/21/2015	189.24	
TW1-1	MU1 Trend	10/7/2015	168.31	
TW1-1	MU1 Trend	10/22/2015	169.72	
TW1-1	MU1 Trend	11/5/2015	169.72	
TW1-1	MU1 Trend	11/18/2015	170.14	
TW1-1	MU1 Trend	12/4/2015	170.41	
TW1-1	MU1 Trend	12/9/2015	172.38	
TW1-1	MU1 Trend	12/21/2015	169.86	
OW1-1	MU1 Observation	10/7/2015	190.31	
OW1-1	MU1 Observation	10/22/2015	190.86	
OW1-1	MU1 Observation	11/5/2015	190.49	
OW1-1	MU1 Observation	11/18/2015	190.73	
OW1-1	MU1 Observation	12/4/2015	190.69	
OW1-1	MU1 Observation	12/21/2015	190.31	

Attachment 3: Groundwater Level Measurement Data
4th Quarter 2015
Lost Creek ISR Project PT788

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
LC15M	Regional	12/30/2015	162.03	
LC16M	Regional	12/30/2015	169.48	
LC17M	Regional	12/30/2015	171.97	
LC18M	Regional	12/30/2015	171.05	
LC19M	Regional	12/30/2015	205.36	
LC20M	Regional	12/30/2015	208.16	
LC21M	Regional	12/30/2015	198.97	
LC22MA	Regional	12/30/2015	212.00	
LC23M	Regional	12/30/2015	223.13	
LC24M	Regional	12/30/2015	193.96	
LC25MA	Regional	12/30/2015	196.41	
LC26M	Regional	12/30/2015	170.32	
LC27M	Regional	12/30/2015	192.95	
LC28M	Regional	12/30/2015	155.58	
LC29M	Regional	12/30/2015	158.82	
LC30M	Regional	12/30/2015	199.92	
LC31M	Regional	12/29/2015	199.92	
MB-01	Regional	12/29/2015	235.94	
MB-02	Regional	12/29/2015	241.52	
MB-03B	Regional	12/29/2015	NM	Dry
MB-04	Regional	12/29/2015	276.99	
MB-05	Regional	12/29/2015	144.62	
MB-06	Regional	12/29/2015	143.30	
MB-07	Regional	12/29/2015	163.88	
MB-08	Regional	12/29/2015	172.60	
MB-09	Regional	12/29/2015	185.57	
MB-10	Regional	12/29/2015	171.69	

ft-bmp: feet below measuring point

MU1: Mine Unit 1

ND: No water detected

**Attachment 4: MU1 Water Quality Data
4th Quarter 2015
Lost Creek ISR Project PT788**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL [†]	% Chg	Assay	UCL [†]	% Chg	Assay	UCL [†]	% Chg	
M-101	MU1 Ring	10/7/2015	--	111	186	-40	5.6	20.5	-73	634	1012	-37	
M-101	MU1 Ring	10/21/2015	14	111	186	-41	6.3	20.5	-69	637	1012	-37	
M-101	MU1 Ring	11/4/2015	14	110	186	-41	6.2	20.5	-70	639	1012	-37	
M-101	MU1 Ring	11/17/2015	13	111	186	-41	6.2	20.5	-70	634	1012	-37	
M-101	MU1 Ring	12/2/2015	15	104	186	-44	5.5	20.5	-73	652	1012	-36	
M-101	MU1 Ring	12/17/2015	15	107	186	-43	5.5	20.5	-73	642	1012	-37	
M-102	MU1 Ring	10/7/2015	--	135	186	-28	5.7	20.5	-72	809	1012	-20	
M-102	MU1 Ring	10/21/2015	14	134	186	-28	6.7	20.5	-68	803	1012	-21	
M-102	MU1 Ring	11/4/2015	14	137	186	-26	6.5	20.5	-68	804	1012	-21	
M-102	MU1 Ring	11/17/2015	13	135	186	-28	9.3	20.5	-55	801	1012	-21	
M-102	MU1 Ring	12/2/2015	15	139	186	-25	6.1	20.5	-70	816	1012	-19	
M-102	MU1 Ring	12/17/2015	15	138	186	-26	6.0	20.5	-71	806	1012	-20	
M-103A	MU1 Ring	10/7/2015	--	134	186	-28	5.9	20.5	-71	814	1012	-20	
M-103A	MU1 Ring	10/21/2015	14	138	186	-26	6.1	20.5	-70	827	1012	-18	
M-103A	MU1 Ring	11/4/2015	14	138	186	-26	6.4	20.5	-69	824	1012	-19	
M-103A	MU1 Ring	11/17/2015	13	134	186	-28	6.4	20.5	-69	824	1012	-19	
M-103A	MU1 Ring	12/2/2015	15	134	186	-28	6.8	20.5	-67	830	1012	-18	
M-103A	MU1 Ring	12/21/2015	19	137	186	-26	6.7	20.5	-67	825	1012	-19	
M-104	MU1 Ring	10/7/2015	--	141	186	-24	7.0	20.5	-66	802	1012	-21	
M-104	MU1 Ring	10/21/2015	14	144	186	-23	5.9	20.5	-71	813	1012	-20	
M-104	MU1 Ring	11/4/2015	14	136	186	-27	6.2	20.5	-70	812	1012	-20	
M-104	MU1 Ring	11/17/2015	13	143	186	-23	6.0	20.5	-71	809	1012	-20	
M-104	MU1 Ring	12/2/2015	15	138	186	-26	6.5	20.5	-68	827	1012	-18	
M-104	MU1 Ring	12/21/2015	19	141	186	-24	7.3	20.5	-64	842	1012	-17	
M-105	MU1 Ring	10/7/2015	--	120	186	-36	6.2	20.5	-70	647	1012	-36	
M-105	MU1 Ring	10/21/2015	14	117	186	-37	5.3	20.5	-74	643	1012	-36	
M-105	MU1 Ring	11/4/2015	14	121	186	-35	5.6	20.5	-73	629	1012	-38	
M-105	MU1 Ring	11/18/2015	14	121	186	-35	5.8	20.5	-72	613	1012	-39	
M-105	MU1 Ring	12/2/2015	14	122	186	-34	5.2	20.5	-75	652	1012	-36	
M-105	MU1 Ring	12/21/2015	19	126	186	-32	5.7	20.5	-72	721	1012	-29	
M-106	MU1 Ring	10/7/2015	--	118	186	-37	6.3	20.5	-69	607	1012	-40	
M-106	MU1 Ring	10/21/2015	14	122	186	-34	6.1	20.5	-70	615	1012	-39	
M-106	MU1 Ring	11/4/2015	14	114	186	-39	5.8	20.5	-72	615	1012	-39	
M-106	MU1 Ring	11/18/2015	14	122	186	-34	5.8	20.5	-72	621	1012	-39	
M-106	MU1 Ring	12/2/2015	14	113	186	-39	5.6	20.5	-73	628	1012	-38	
M-106	MU1 Ring	12/21/2015	19	122	186	-35	5.7	20.5	-72	713	1012	-30	
M-107	MU1 Ring	10/7/2015	--	116	186	-38	6.0	20.5	-71	669	1012	-34	
M-107	MU1 Ring	10/21/2015	14	116	186	-38	6.5	20.5	-68	675	1012	-33	
M-107	MU1 Ring	11/4/2015	14	122	186	-34	6.5	20.5	-68	672	1012	-34	
M-107	MU1 Ring	11/18/2015	14	118	186	-37	5.6	20.5	-73	682	1012	-33	
M-107	MU1 Ring	12/2/2015	14	123	186	-34	6.8	20.5	-67	680	1012	-33	
M-107	MU1 Ring	12/21/2015	19	121	186	-35	6.4	20.5	-69	680	1012	-33	
M-108	MU1 Ring	10/7/2015	--	112	186	-40	5.8	20.5	-72	550	1012	-46	
M-108	MU1 Ring	10/21/2015	14	113	186	-39	5.5	20.5	-73	555	1012	-45	
M-108	MU1 Ring	11/4/2015	14	106	186	-43	5.6	20.5	-73	553	1012	-45	
M-108	MU1 Ring	11/18/2015	14	110	186	-41	5.7	20.5	-72	552	1012	-45	
M-108	MU1 Ring	12/2/2015	14	107	186	-43	5.9	20.5	-71	553	1012	-45	
M-108	MU1 Ring	12/21/2015	19	105	186	-44	6.2	20.5	-70	546	1012	-46	
M-109	MU1 Ring	10/7/2015	--	106	186	-43	5.4	20.5	-74	570	1012	-44	
M-109	MU1 Ring	10/21/2015	14	108	186	-42	5.3	20.5	-74	574	1012	-43	
M-109	MU1 Ring	11/4/2015	14	112	186	-40	5.5	20.5	-73	577	1012	-43	
M-109	MU1 Ring	11/18/2015	14	114	186	-39	6.3	20.5	-69	584	1012	-42	
M-109	MU1 Ring	12/2/2015	14	115	186	-38	5.8	20.5	-72	601	1012	-41	
M-109	MU1 Ring	12/21/2015	19	114	186	-39	5.8	20.5	-72	593	1012	-41	
M-110	MU1 Ring	10/7/2015	--	109	186	-42	6.3	20.5	-69	554	1012	-45	
M-110	MU1 Ring	10/21/2015	14	111	186	-41	6.8	20.5	-67	568	1012	-44	
M-110	MU1 Ring	11/4/2015	14	113	186	-40	6.8	20.5	-67	562	1012	-44	
M-110	MU1 Ring	11/18/2015	14	110	186	-41	7.1	20.5	-66	570	1012	-44	
M-110	MU1 Ring	12/2/2015	14	112	186	-40	6.2	20.5	-70	587	1012	-42	
M-110	MU1 Ring	12/21/2015	19	112	186	-40	6.3	20.5	-69	581	1012	-43	
M-111	MU1 Ring	10/7/2015	--	114	186	-39	6.2	20.5	-70	554	1012	-45	
M-111	MU1 Ring	10/21/2015	14	111	186	-40	6.5	20.5	-68	547	1012	-46	
M-111	MU1 Ring	11/4/2015	14	104	186	-44	6.2	20.5	-70	546	1012	-46	
M-111	MU1 Ring	11/18/2015	14	110	186	-41	5.4	20.5	-74	541	1012	-47	
M-111	MU1 Ring	12/2/2015	14	108	186	-42	5.5	20.5	-73	554	1012	-45	
M-111	MU1 Ring	12/21/2015	19	104	186	-44	5.7	20.5	-72	551	1012	-46	

**Attachment 4: MU1 Water Quality Data
4th Quarter 2015
Lost Creek ISR Project PT788**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL [†]	% Chg	Assay	UCL [†]	% Chg	Assay	UCL [†]	% Chg	
M-112	MU1 Ring	10/7/2015	--	108	186	-42	6.8	20.5	-67	546	1012	-46	
M-112	MU1 Ring	10/21/2015	14	108	186	-42	6.0	20.5	-71	551	1012	-46	
M-112	MU1 Ring	11/4/2015	14	114	186	-39	5.8	20.5	-72	552	1012	-45	
M-112	MU1 Ring	11/18/2015	14	111	186	-40	5.2	20.5	-75	546	1012	-46	
M-112	MU1 Ring	12/2/2015	14	114	186	-39	6.5	20.5	-68	553	1012	-45	
M-112	MU1 Ring	12/21/2015	19	113	186	-39	6.0	20.5	-71	561	1012	-45	
M-113	MU1 Ring	10/6/2015	--	105	186	-44	5.1	20.5	-75	496	1012	-51	
M-113	MU1 Ring	10/20/2015	14	110	186	-41	7.7	20.5	-63	505	1012	-50	
M-113	MU1 Ring	11/3/2015	14	103	186	-45	4.9	20.5	-76	509	1012	-50	
M-113	MU1 Ring	11/17/2015	14	99	186	-47	5.2	20.5	-75	503	1012	-50	
M-113	MU1 Ring	12/1/2015	14	99	186	-47	4.8	20.5	-76	496	1012	-51	
M-113	MU1 Ring	12/17/2015	16	103	186	-45	5.5	20.5	-73	513	1012	-49	
M-114A	MU1 Ring	10/6/2015	--	104	186	-44	5.8	20.5	-72	511	1012	-50	
M-114A	MU1 Ring	10/20/2015	14	105	186	-44	5.8	20.5	-71	514	1012	-49	
M-114A	MU1 Ring	11/3/2015	14	103	186	-45	5.0	20.5	-75	519	1012	-49	
M-114A	MU1 Ring	11/17/2015	14	114	186	-39	5.7	20.5	-72	515	1012	-49	
M-114A	MU1 Ring	12/1/2015	14	108	186	-42	5.4	20.5	-74	516	1012	-49	
M-114A	MU1 Ring	12/17/2015	16	103	186	-45	4.9	20.5	-76	525	1012	-48	
M-115A	MU1 Ring	10/6/2015	--	107	186	-42	5.0	20.5	-76	494	1012	-51	
M-115A	MU1 Ring	10/20/2015	14	104	186	-44	5.1	20.5	-75	490	1012	-52	
M-115A	MU1 Ring	11/5/2015	16	107	186	-43	5.1	20.5	-75	437	1012	-57	
M-115A	MU1 Ring	11/17/2015	12	103	186	-44	5.2	20.5	-75	488	1012	-52	
M-115A	MU1 Ring	12/1/2015	14	104	186	-44	5.8	20.5	-72	489	1012	-52	
M-115A	MU1 Ring	12/17/2015	16	120	186	-35	4.8	20.5	-77	499	1012	-51	
M-116A	MU1 Ring	10/6/2015	--	106	186	-43	4.5	20.5	-78	488	1012	-52	
M-116A	MU1 Ring	10/20/2015	14	106	186	-43	6.4	20.5	-69	488	1012	-52	
M-116A	MU1 Ring	11/3/2015	14	111	186	-40	5.5	20.5	-73	488	1012	-52	
M-116A	MU1 Ring	11/17/2015	14	101	186	-46	4.9	20.5	-76	485	1012	-52	
M-116A	MU1 Ring	12/1/2015	14	100	186	-46	5.3	20.5	-74	492	1012	-51	
M-116A	MU1 Ring	12/17/2015	16	104	186	-44	5.6	20.5	-73	498	1012	-51	
M-117	MU1 Ring	10/6/2015	--	104	186	-44	5.5	20.5	-73	478	1012	-53	
M-117	MU1 Ring	10/20/2015	14	106	186	-43	6.2	20.5	-70	477	1012	-53	
M-117	MU1 Ring	11/4/2015	15	105	186	-44	4.8	20.5	-77	478	1012	-53	
M-117	MU1 Ring	11/17/2015	13	107	186	-43	5.7	20.5	-72	477	1012	-53	
M-117	MU1 Ring	12/1/2015	14	104	186	-44	4.8	20.5	-77	486	1012	-52	
M-117	MU1 Ring	12/17/2015	16	109	186	-41	5.7	20.5	-72	488	1012	-52	
M-118	MU1 Ring	10/6/2015	--	103	186	-45	5.8	20.5	-72	492	1012	-51	
M-118	MU1 Ring	10/20/2015	14	102	186	-45	4.9	20.5	-76	494	1012	-51	
M-118	MU1 Ring	11/3/2015	14	104	186	-44	5.6	20.5	-73	497	1012	-51	
M-118	MU1 Ring	11/17/2015	14	107	186	-42	5.6	20.5	-72	494	1012	-51	
M-118	MU1 Ring	12/1/2015	14	110	186	-41	5.2	20.5	-75	502	1012	-50	
M-118	MU1 Ring	12/17/2015	16	107	186	-43	5.2	20.5	-75	507	1012	-50	
M-119	MU1 Ring	10/6/2015	--	116	186	-38	5.5	20.5	-73	471	1012	-53	
M-119	MU1 Ring	10/20/2015	14	118	186	-37	5.3	20.5	-74	471	1012	-53	
M-119	MU1 Ring	11/3/2015	14	116	186	-38	5.9	20.5	-71	476	1012	-53	
M-119	MU1 Ring	11/17/2015	14	111	186	-40	5.8	20.5	-71	472	1012	-53	
M-119	MU1 Ring	12/1/2015	14	109	186	-41	6.0	20.5	-71	477	1012	-53	
M-119	MU1 Ring	12/17/2015	16	113	186	-40	5.2	20.5	-75	484	1012	-52	
M-120A	MU1 Ring	10/6/2015	--	108	186	-42	5.3	20.5	-74	481	1012	-52	
M-120A	MU1 Ring	10/20/2015	14	107	186	-42	5.3	20.5	-74	478	1012	-53	
M-120A	MU1 Ring	11/3/2015	14	108	186	-42	6.1	20.5	-70	495	1012	-51	
M-120A	MU1 Ring	11/17/2015	14	112	186	-40	5.5	20.5	-73	497	1012	-51	
M-120A	MU1 Ring	12/1/2015	14	110	186	-41	5.9	20.5	-71	500	1012	-51	
M-120A	MU1 Ring	12/17/2015	16	113	186	-39	5.9	20.5	-71	512	1012	-49	
M-121	MU1 Ring	10/6/2015	--	111	186	-41	5.0	20.5	-76	504	1012	-50	
M-121	MU1 Ring	10/20/2015	14	113	186	-39	5.5	20.5	-73	507	1012	-50	
M-121	MU1 Ring	11/3/2015	14	110	186	-41	5.2	20.5	-74	510	1012	-50	
M-121	MU1 Ring	11/17/2015	14	114	186	-39	6.3	20.5	-69	502	1012	-50	
M-121	MU1 Ring	12/1/2015	14	113	186	-39	5.1	20.5	-75	509	1012	-50	
M-121	MU1 Ring	12/17/2015	16	113	186	-39	5.2	20.5	-75	517	1012	-49	
M-122	MU1 Ring	10/6/2015	--	114	186	-39	5.3	20.5	-74	495	1012	-51	
M-122	MU1 Ring	10/20/2015	14	112	186	-40	5.8	20.5	-72	499	1012	-51	
M-122	MU1 Ring	11/3/2015	14	114	186	-39	4.9	20.5	-76	498	1012	-51	
M-122	MU1 Ring	11/17/2015	14	109	186	-42	7.2	20.5	-65	498	1012	-51	
M-122	MU1 Ring	12/1/2015	14	109	186	-41	5.0	20.5	-75	501	1012	-51	
M-122	MU1 Ring	12/17/2015	16	110	186	-41	5.5	20.5	-73	510	1012	-50	

**Attachment 4: MU1 Water Quality Data
4th Quarter 2015
Lost Creek ISR Project PT788**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL [†]	% Chg	Assay	UCL [†]	% Chg	Assay	UCL [†]	% Chg	
M-123	MU1 Ring	10/6/2015	--	112	186	-40	5.7	20.5	-72	489	1012	-52	
M-123	MU1 Ring	10/20/2015	14	113	186	-39	5.2	20.5	-75	496	1012	-51	
M-123	MU1 Ring	11/4/2015	15	112	186	-40	5.5	20.5	-73	494	1012	-51	
M-123	MU1 Ring	11/17/2015	13	117	186	-37	6.8	20.5	-67	490	1012	-52	
M-123	MU1 Ring	12/1/2015	14	116	186	-38	5.7	20.5	-72	495	1012	-51	
M-123	MU1 Ring	12/17/2015	16	117	186	-37	5.8	20.5	-72	501	1012	-51	
M-124	MU1 Ring	10/6/2015	--	114	186	-39	5.4	20.5	-74	466	1012	-54	
M-124	MU1 Ring	10/20/2015	14	114	186	-39	4.6	20.5	-77	465	1012	-54	
M-124	MU1 Ring	11/4/2015	15	113	186	-39	5.8	20.5	-72	465	1012	-54	
M-124	MU1 Ring	11/17/2015	13	109	186	-42	6.8	20.5	-67	464	1012	-54	
M-124	MU1 Ring	12/1/2015	14	110	186	-41	5.4	20.5	-73	468	1012	-54	
M-124	MU1 Ring	12/17/2015	16	109	186	-42	5.1	20.5	-75	472	1012	-53	
M-125	MU1 Ring	10/6/2015	--	107	186	-43	5.9	20.5	-71	540	1012	-47	
M-125	MU1 Ring	10/20/2015	14	107	186	-43	5.9	20.5	-71	540	1012	-47	
M-125	MU1 Ring	11/4/2015	15	108	186	-42	6.2	20.5	-70	542	1012	-46	
M-125	MU1 Ring	11/17/2015	13	106	186	-43	10.2	20.5	-50	538	1012	-47	
M-125	MU1 Ring	12/1/2015	14	105	186	-44	5.9	20.5	-71	544	1012	-46	
M-125	MU1 Ring	12/17/2015	16	106	186	-43	5.8	20.5	-72	550	1012	-46	
M-126	MU1 Ring	10/6/2015	--	106	186	-43	5.4	20.5	-74	525	1012	-48	
M-126	MU1 Ring	10/20/2015	14	110	186	-41	6.3	20.5	-69	526	1012	-48	
M-126	MU1 Ring	11/4/2015	15	104	186	-44	5.5	20.5	-73	524	1012	-48	
M-126	MU1 Ring	11/17/2015	13	110	186	-41	9.3	20.5	-55	526	1012	-48	
M-126	MU1 Ring	12/1/2015	14	109	186	-41	5.4	20.5	-74	530	1012	-48	
M-126	MU1 Ring	12/17/2015	16	110	186	-41	5.8	20.5	-72	528	1012	-48	
M-127	MU1 Ring	10/6/2015	--	112	186	-40	5.8	20.5	-72	528	1012	-48	
M-127	MU1 Ring	10/20/2015	14	111	186	-41	6.2	20.5	-70	526	1012	-48	
M-127	MU1 Ring	11/4/2015	15	112	186	-40	5.8	20.5	-72	531	1012	-48	
M-127	MU1 Ring	11/17/2015	13	106	186	-43	5.8	20.5	-72	533	1012	-47	
M-127	MU1 Ring	12/1/2015	14	109	186	-41	6.2	20.5	-70	537	1012	-47	
M-127	MU1 Ring	12/17/2015	16	108	186	-42	6.5	20.5	-68	543	1012	-46	
M-128	MU1 Ring	10/6/2015	--	108	186	-42	5.9	20.5	-71	548	1012	-46	
M-128	MU1 Ring	10/21/2015	15	111	186	-41	5.3	20.5	-74	550	1012	-46	
M-128	MU1 Ring	11/4/2015	14	109	186	-41	6.3	20.5	-69	552	1012	-45	
M-128	MU1 Ring	11/17/2015	13	109	186	-42	5.6	20.5	-73	544	1012	-46	
M-128	MU1 Ring	12/1/2015	14	107	186	-43	6.1	20.5	-70	544	1012	-46	
M-128	MU1 Ring	12/17/2015	16	109	186	-41	5.8	20.5	-72	547	1012	-46	
MO-101	MU1 Overlying	10/7/2015	--	107	182	-41	7.8	21.4	-64	630	922	-32	
MO-101	MU1 Overlying	10/22/2015	15	105	182	-42	11.3	21.4	-47	620	922	-33	
MO-101	MU1 Overlying	11/5/2015	14	104	182	-43	8.4	21.4	-61	630	922	-32	
MO-101	MU1 Overlying	11/18/2015	13	105	182	-42	8.5	21.4	-60	636	922	-31	
MO-101	MU1 Overlying	12/2/2015	14	104	182	-43	7.6	21.4	-64	644	922	-30	
MO-101	MU1 Overlying	12/21/2015	19	110	182	-40	7.2	21.4	-66	649	922	-30	
MO-102	MU1 Overlying	10/7/2015	--	104	182	-43	6.0	21.4	-72	578	922	-37	
MO-102	MU1 Overlying	10/22/2015	15	99	182	-46	6.6	21.4	-69	575	922	-38	
MO-102	MU1 Overlying	11/5/2015	14	100	182	-45	7.4	21.4	-66	580	922	-37	
MO-102	MU1 Overlying	11/18/2015	13	102	182	-44	7.0	21.4	-67	584	922	-37	
MO-102	MU1 Overlying	12/2/2015	14	99	182	-46	5.9	21.4	-72	585	922	-37	
MO-102	MU1 Overlying	12/21/2015	19	98	182	-46	6.2	21.4	-71	590	922	-36	
MO-103	MU1 Overlying	10/7/2015	--	110	182	-39	8.3	21.4	-61	665	922	-28	
MO-103	MU1 Overlying	10/22/2015	15	110	182	-39	10.4	21.4	-51	657	922	-29	
MO-103	MU1 Overlying	11/5/2015	14	113	182	-38	9.6	21.4	-55	658	922	-29	
MO-103	MU1 Overlying	11/18/2015	13	113	182	-38	8.3	21.4	-61	669	922	-27	
MO-103	MU1 Overlying	12/3/2015	15	114	182	-37	9.5	21.4	-55	663	922	-28	
MO-103	MU1 Overlying	12/21/2015	18	125	182	-31	9.6	21.4	-55	683	922	-26	
MO-104	MU1 Overlying	10/7/2015	--	114	182	-37	9.2	21.4	-57	591	922	-36	
MO-104	MU1 Overlying	10/22/2015	15	114	182	-38	8.6	21.4	-60	594	922	-36	
MO-104	MU1 Overlying	11/5/2015	14	112	182	-39	8.4	21.4	-61	594	922	-36	
MO-104	MU1 Overlying	11/18/2015	13	114	182	-37	8.4	21.4	-61	611	922	-34	
MO-104	MU1 Overlying	12/3/2015	15	112	182	-38	9.3	21.4	-57	603	922	-35	
MO-104	MU1 Overlying	12/21/2015	18	114	182	-37	9.7	21.4	-55	611	922	-34	
MO-105	MU1 Overlying	10/8/2015	--	104	182	-43	5.2	21.4	-75	459	922	-50	
MO-105	MU1 Overlying	10/22/2015	14	98	182	-46	6.2	21.4	-71	466	922	-49	
MO-105	MU1 Overlying	11/5/2015	14	100	182	-45	5.3	21.4	-75	466	922	-49	
MO-105	MU1 Overlying	11/18/2015	13	100	182	-45	5.3	21.4	-75	474	922	-49	
MO-105	MU1 Overlying	12/3/2015	15	103	182	-43	5.4	21.4	-75	480	922	-48	
MO-105	MU1 Overlying	12/22/2015	19	101	182	-44	5.8	21.4	-73	471	922	-49	

Attachment 4: MU1 Water Quality Data
4th Quarter 2015
Lost Creek ISR Project PT788

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL [†]	% Chg	Assay	UCL [†]	% Chg	Assay	UCL [†]	% Chg	
MO-106	MU1 Overlying	10/8/2015	--	90	182	-51	5.5	21.4	-74	443	922	-52	
MO-106	MU1 Overlying	10/22/2015	14	94	182	-48	6.3	21.4	-71	449	922	-51	
MO-106	MU1 Overlying	11/5/2015	14	99	182	-46	6.3	21.4	-71	453	922	-51	
MO-106	MU1 Overlying	11/18/2015	13	98	182	-46	5.5	21.4	-74	460	922	-50	
MO-106	MU1 Overlying	12/3/2015	15	92	182	-49	5.2	21.4	-76	456	922	-51	
MO-106	MU1 Overlying	12/22/2015	19	94	182	-48	5.7	21.4	-73	457	922	-50	
MO-107	MU1 Overlying	10/8/2015	--	96	182	-47	5.3	21.4	-75	458	922	-50	
MO-107	MU1 Overlying	10/22/2015	14	100	182	-45	5.7	21.4	-73	458	922	-50	
MO-107	MU1 Overlying	11/6/2015	15	105	182	-42	6.0	21.4	-72	461	922	-50	
MO-107	MU1 Overlying	11/19/2015	13	104	182	-43	5.5	21.4	-74	466	922	-49	
MO-107	MU1 Overlying	12/3/2015	14	100	182	-45	5.8	21.4	-73	471	922	-49	
MO-107	MU1 Overlying	12/22/2015	19	101	182	-45	6.2	21.4	-71	477	922	-48	
MO-108	MU1 Overlying	10/8/2015	--	98	182	-46	6.9	21.4	-68	494	922	-46	
MO-108	MU1 Overlying	10/22/2015	14	101	182	-45	5.7	21.4	-73	493	922	-47	
MO-108	MU1 Overlying	11/6/2015	15	99	182	-46	5.9	21.4	-73	492	922	-47	
MO-108	MU1 Overlying	11/19/2015	13	97	182	-47	5.7	21.4	-73	494	922	-46	
MO-108	MU1 Overlying	12/3/2015	14	101	182	-45	6.8	21.4	-68	498	922	-46	
MO-108	MU1 Overlying	12/22/2015	19	100	182	-45	6.3	21.4	-71	501	922	-46	
MO-109	MU1 Overlying	10/8/2015	--	--	182	--	--	21.4	--	--	922	--	Missed sample event
MO-109	MU1 Overlying	10/22/2015	14	103	182	-44	7.3	21.4	-66	498	922	-46	
MO-109	MU1 Overlying	11/6/2015	15	105	182	-43	8.6	21.4	-60	514	922	-44	
MO-109	MU1 Overlying	11/19/2015	13	107	182	-41	8.3	21.4	-61	515	922	-44	
MO-109	MU1 Overlying	12/3/2015	14	109	182	-40	8.4	21.4	-61	519	922	-44	
MO-109	MU1 Overlying	12/22/2015	19	109	182	-40	10.0	21.4	-53	532	922	-42	
MO-110	MU1 Overlying	10/8/2015	--	96	182	-47	5.7	21.4	-73	429	922	-53	
MO-110	MU1 Overlying	10/23/2015	15	97	182	-46	5.2	21.4	-76	413	922	-55	
MO-110	MU1 Overlying	11/6/2015	14	96	182	-47	5.5	21.4	-74	431	922	-53	
MO-110	MU1 Overlying	11/19/2015	13	99	182	-46	5.8	21.4	-73	433	922	-53	
MO-110	MU1 Overlying	12/3/2015	14	95	182	-48	4.8	21.4	-78	433	922	-53	
MO-110	MU1 Overlying	12/22/2015	19	95	182	-48	5.3	21.4	-75	433	922	-53	
MO-111	MU1 Overlying	10/8/2015	--	101	182	-45	6.0	21.4	-72	420	922	-54	
MO-111	MU1 Overlying	10/23/2015	15	97	182	-47	5.6	21.4	-74	419	922	-55	
MO-111	MU1 Overlying	11/6/2015	14	101	182	-44	5.2	21.4	-75	422	922	-54	
MO-111	MU1 Overlying	11/19/2015	13	101	182	-44	5.2	21.4	-76	431	922	-53	
MO-111	MU1 Overlying	12/3/2015	14	100	182	-45	5.2	21.4	-76	429	922	-53	
MO-111	MU1 Overlying	12/22/2015	19	103	182	-43	6.0	21.4	-72	435	922	-53	
MO-112	MU1 Overlying	10/8/2015	--	95	182	-48	5.7	21.4	-73	396	922	-57	
MO-112	MU1 Overlying	10/23/2015	15	94	182	-48	6.2	21.4	-71	401	922	-56	
MO-112	MU1 Overlying	11/6/2015	14	96	182	-47	5.2	21.4	-75	397	922	-57	
MO-112	MU1 Overlying	11/19/2015	13	91	182	-50	5.1	21.4	-76	398	922	-57	
MO-112	MU1 Overlying	12/4/2015	15	92	182	-49	6.4	21.4	-70	397	922	-57	
MO-112	MU1 Overlying	12/22/2015	18	94	182	-48	6.0	21.4	-72	403	922	-56	
MO-113	MU1 Overlying	10/8/2015	--	98	182	-46	5.5	21.4	-74	442	922	-52	
MO-113	MU1 Overlying	10/23/2015	15	102	182	-44	5.7	21.4	-73	440	922	-52	
MO-113	MU1 Overlying	11/6/2015	14	99	182	-45	5.8	21.4	-73	443	922	-52	
MO-113	MU1 Overlying	11/19/2015	13	99	182	-45	5.4	21.4	-75	447	922	-52	
MO-113	MU1 Overlying	12/4/2015	15	103	182	-43	5.6	21.4	-74	447	922	-52	
MO-113	MU1 Overlying	12/22/2015	18	102	182	-44	5.2	21.4	-76	449	922	-51	
MU-101	MU1 Underlying	10/7/2015	--	113	206	-45	6.2	21.3	-71	535	659	-19	
MU-101	MU1 Underlying	10/22/2015	15	111	206	-46	5.9	21.3	-72	532	659	-19	
MU-101	MU1 Underlying	11/5/2015	14	109	206	-47	5.8	21.3	-73	536	659	-19	
MU-101	MU1 Underlying	11/18/2015	13	110	206	-47	4.8	21.3	-77	542	659	-18	
MU-101	MU1 Underlying	12/2/2015	14	113	206	-45	5.3	21.3	-75	544	659	-17	
MU-101	MU1 Underlying	12/21/2015	19	110	206	-47	5.3	21.3	-75	545	659	-17	
MU-102	MU1 Underlying	10/7/2015	--	101	206	-51	5.4	21.3	-75	430	659	-35	
MU-102	MU1 Underlying	10/22/2015	15	102	206	-50	4.4	21.3	-79	420	659	-36	
MU-102	MU1 Underlying	11/5/2015	14	101	206	-51	5.1	21.3	-76	423	659	-36	
MU-102	MU1 Underlying	11/18/2015	13	101	206	-51	5.2	21.3	-75	429	659	-35	
MU-102	MU1 Underlying	12/2/2015	14	102	206	-50	5.6	21.3	-74	429	659	-35	
MU-102	MU1 Underlying	12/21/2015	19	106	206	-49	4.7	21.3	-78	430	659	-35	
MU-103	MU1 Underlying	10/7/2015	--	98	206	-52	5.1	21.3	-76	412	659	-37	
MU-103	MU1 Underlying	10/22/2015	15	99	206	-52	5.2	21.3	-76	412	659	-37	

Attachment 4: MU1 Water Quality Data
4th Quarter 2015
Lost Creek ISR Project PT788

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL [†]	% Chg	Assay	UCL [†]	% Chg	Assay	UCL [†]	% Chg	
MU-103	MU1 Underlying	11/5/2015	14	105	206	-49	4.5	21.3	-79	415	659	-37	
MU-103	MU1 Underlying	11/18/2015	13	103	206	-50	5.4	21.3	-75	420	659	-36	
MU-103	MU1 Underlying	12/3/2015	15	103	206	-50	5.2	21.3	-76	418	659	-37	
MU-103	MU1 Underlying	12/21/2015	18	100	206	-51	5.1	21.3	-76	424	659	-36	
MU-104	MU1 Underlying	10/7/2015	--	100	206	-51	5.3	21.3	-75	412	659	-37	
MU-104	MU1 Underlying	10/22/2015	15	104	206	-50	5.7	21.3	-73	416	659	-37	
MU-104	MU1 Underlying	11/5/2015	14	99	206	-52	4.7	21.3	-78	395	659	-40	
MU-104	MU1 Underlying	11/18/2015	13	101	206	-51	4.8	21.3	-77	404	659	-39	
MU-104	MU1 Underlying	12/3/2015	15	99	206	-52	5.2	21.3	-76	409	659	-38	
MU-104	MU1 Underlying	12/21/2015	18	98	206	-53	5.3	21.3	-75	402	659	-39	
MU-105	MU1 Underlying	10/8/2015	--	102	206	-50	4.9	21.3	-77	432	659	-34	
MU-105	MU1 Underlying	10/22/2015	14	103	206	-50	4.8	21.3	-78	435	659	-34	
MU-105	MU1 Underlying	11/5/2015	14	101	206	-51	5.4	21.3	-75	440	659	-33	
MU-105	MU1 Underlying	11/18/2015	13	101	206	-51	4.5	21.3	-79	443	659	-33	
MU-105	MU1 Underlying	12/3/2015	15	100	206	-51	4.7	21.3	-78	444	659	-33	
MU-105	MU1 Underlying	12/22/2015	19	100	206	-52	5.0	21.3	-76	440	659	-33	
MU-106	MU1 Underlying	10/8/2015	--	103	206	-50	5.4	21.3	-75	451	659	-32	
MU-106	MU1 Underlying	10/22/2015	14	101	206	-51	5.3	21.3	-75	450	659	-32	
MU-106	MU1 Underlying	11/5/2015	14	100	206	-52	5.7	21.3	-73	453	659	-31	
MU-106	MU1 Underlying	11/18/2015	13	100	206	-52	5.7	21.3	-73	462	659	-30	
MU-106	MU1 Underlying	12/3/2015	15	100	206	-51	5.0	21.3	-77	461	659	-30	
MU-106	MU1 Underlying	12/22/2015	19	101	206	-51	5.9	21.3	-72	462	659	-30	
MU-107	MU1 Underlying	10/8/2015	--	102	206	-51	5.6	21.3	-74	463	659	-30	
MU-107	MU1 Underlying	10/22/2015	14	100	206	-51	5.4	21.3	-75	463	659	-30	
MU-107	MU1 Underlying	11/6/2015	15	99	206	-52	5.6	21.3	-74	464	659	-30	
MU-107	MU1 Underlying	11/19/2015	13	103	206	-50	5.4	21.3	-75	469	659	-29	
MU-107	MU1 Underlying	12/3/2015	14	104	206	-50	5.4	21.3	-75	469	659	-29	
MU-107	MU1 Underlying	12/22/2015	19	105	206	-49	5.1	21.3	-76	472	659	-28	
KPW-2	MU1 Underlying	10/8/2015	--	100	206	-52	5.9	21.3	-72	477	659	-28	
KPW-2	MU1 Underlying	10/22/2015	14	106	206	-49	5.3	21.3	-75	474	659	-28	
KPW-2	MU1 Underlying	11/6/2015	15	104	206	-50	5.3	21.3	-75	472	659	-28	
KPW-2	MU1 Underlying	11/19/2015	13	103	206	-50	5.4	21.3	-75	479	659	-27	
KPW-2	MU1 Underlying	12/3/2015	14	101	206	-51	5.5	21.3	-74	480	659	-27	
KPW-2	MU1 Underlying	12/22/2015	19	102	206	-51	5.2	21.3	-75	482	659	-27	
MU-109	MU1 Underlying	10/14/2015	--	127	206	-38	14.6	21.3	-31	570	659	-13	
MU-109	MU1 Underlying	10/26/2015	12	119	206	-42	12.7	21.3	-40	541	659	-18	
MU-109	MU1 Underlying	11/6/2015	11	119	206	-42	11.9	21.3	-44	538	659	-18	
MU-109	MU1 Underlying	11/19/2015	13	116	206	-44	10.9	21.3	-49	539	659	-18	
MU-109	MU1 Underlying	12/3/2015	14	112	206	-46	10.7	21.3	-50	529	659	-20	
MU-109	MU1 Underlying	12/22/2015	19	113	206	-45	11.8	21.3	-45	532	659	-19	
MU-110	MU1 Underlying	10/8/2015	--	87	206	-58	7.9	21.3	-63	449	659	-32	
MU-110	MU1 Underlying	10/23/2015	15	86	206	-58	7.8	21.3	-63	446	659	-32	
MU-110	MU1 Underlying	11/6/2015	14	88	206	-57	8.0	21.3	-63	453	659	-31	
MU-110	MU1 Underlying	11/19/2015	13	89	206	-57	7.7	21.3	-64	459	659	-30	
MU-110	MU1 Underlying	12/3/2015	14	88	206	-57	7.3	21.3	-66	460	659	-30	
MU-110	MU1 Underlying	12/22/2015	19	88	206	-57	8.2	21.3	-61	455	659	-31	
MU-111	MU1 Underlying	10/8/2015	--	94	206	-55	5.5	21.3	-74	494	659	-25	
MU-111	MU1 Underlying	10/23/2015	15	93	206	-55	6.2	21.3	-71	494	659	-25	
MU-111	MU1 Underlying	11/6/2015	14	92	206	-55	6.8	21.3	-68	502	659	-24	
MU-111	MU1 Underlying	11/19/2015	13	92	206	-55	7.9	21.3	-63	507	659	-23	
MU-111	MU1 Underlying	12/3/2015	14	93	206	-55	7.0	21.3	-67	503	659	-24	
MU-111	MU1 Underlying	12/22/2015	19	105	206	-49	6.6	21.3	-69	503	659	-24	
MU-112	MU1 Underlying	10/8/2015	--	95	206	-54	5.1	21.3	-76	433	659	-34	
MU-112	MU1 Underlying	10/23/2015	15	94	206	-54	5.2	21.3	-76	435	659	-34	
MU-112	MU1 Underlying	11/6/2015	14	95	206	-54	5.0	21.3	-77	436	659	-34	
MU-112	MU1 Underlying	11/19/2015	13	98	206	-52	5.3	21.3	-75	440	659	-33	
MU-112	MU1 Underlying	12/4/2015	15	96	206	-53	4.8	21.3	-78	440	659	-33	
MU-112	MU1 Underlying	12/22/2015	18	95	206	-54	4.7	21.3	-78	439	659	-33	
MU-113	MU1 Underlying	10/8/2015	--	91	206	-56	5.3	21.3	-75	463	659	-30	
MU-113	MU1 Underlying	10/23/2015	15	89	206	-57	5.0	21.3	-76	463	659	-30	
MU-113	MU1 Underlying	11/6/2015	14	92	206	-56	4.8	21.3	-77	468	659	-29	
MU-113	MU1 Underlying	11/19/2015	13	91	206	-56	4.5	21.3	-79	474	659	-28	
MU-113	MU1 Underlying	12/4/2015	15	90	206	-56	4.7	21.3	-78	474	659	-28	
MU-113	MU1 Underlying	12/22/2015	18	90	206	-56	5.5	21.3	-74	475	659	-28	
LC29M	Regional DE	N/A	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dry
MB-10	Regional DE	N/A	--	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dry

UCL : Upper Control Limit

† : UCL determined by well group (see Permit to Mine, Mine Unit 1 Report, Table MU1 4-12)

Italics : Indicates warning when result is > UCL but < 120% of UCL

Bold Italics : Indicates one value > 120% of UCL; or 2 or 3 values > UCL