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October 25, 2016

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

**Re: Quarterly Report for 3rd Quarter 2016 for the Lost Creek ISR Project
Permit #788 (BLM WYW-166318)**

Dear Mr. Wood,

This Quarterly Report for the third calendar quarter of 2016 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 7 Mechanical Integrity Tests (MIT) were performed on a total of 7 wells in accordance with the approved Permit Operations Plan Section 3.4. Results are summarized on **Attachment 1**. The MITs resulted in 7 successful tests with 0 failures, therefore, no failed wells were abandoned or scheduled for abandonment this quarter.

Wellfield Monitoring

Wellfield injection and production in Mine Unit 1 (MU1) continued throughout the quarter with thirteen (13) header houses in operation as of the end of the quarter. Lixiviant was generated by the addition of 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. Additional bleed is determined by accounting for the swab water

generated from the wellfield and converting the volume to a flow rate equivalent. Bleed water is disposed of by approved means in the waste water stream 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). The wells experienced typical fluctuation in water levels for "MO" and "MU" wells and no significant changes in levels occurred. Fluctuations are typical for the "M" wells but more pronounced 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 respective 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 horizon wells (within MU1). 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.

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

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
3rd Quarter 2016
Lost Creek ISR Project PT788

	Well ID	Well Type	MIT ⁽¹⁾ Date	P/F	P&A ⁽²⁾ Date	Comments
1	1I521	I	8/24/2016	Pass	N/A	
2	1P234	P	8/5/2016	Pass	N/A	Retest
3	1P258	P	8/22/2016	Pass	N/A	
4	1P259	P	8/23/2016	Pass	N/A	
5	1P317A	P	9/7/2016	Pass	N/A	
6	1P350	P	8/22/2016	Pass	N/A	Retest after well was gravel packed
7	M-FG11	M	9/2/2016	Pass	N/A	

7 Total MITs
7 Pass
0 Fails
7 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

I: Class III Injection Well

P: Production Well

M: Monitor Well

Attachment 2: Plant Operational Flow Summary
3rd Quarter 2016
Lost Creek ISR Project PT788

Date	Production Flow Rate (avg gpm)	Injection Flow Rate (avg gpm)	Main Bleed Flow Rate (avg gpm)	Alternate Bleed* (equiv. gpm)	Total Bleed Rate (%)	Comments
7/1/2016	2137	2117	15.0	---	0.70%	
7/2/2016	1439	1476	10.1	---	0.70%	
7/3/2016	2172	2153	15.0	---	0.69%	
7/4/2016	2145	2127	14.9	---	0.70%	
7/5/2016	2131	2112	15.1	---	0.71%	
7/6/2016	2079	2063	14.8	---	0.71%	
7/7/2016	2091	2076	12.5	---	0.60%	
7/8/2016	2135	2118	12.5	---	0.59%	
7/9/2016	2004	1990	14.4	---	0.72%	
7/10/2016	2020	2005	14.1	---	0.70%	
7/11/2016	2037	2023	11.8	---	0.58%	
7/12/2016	2037	2024	12.0	---	0.59%	
7/13/2016	2051	2035	14.3	---	0.70%	
7/14/2016	1984	1972	11.9	---	0.60%	
7/15/2016	1981	1967	13.9	---	0.70%	
7/16/2016	1976	1962	13.8	---	0.70%	
7/17/2016	1921	1908	13.6	---	0.71%	
7/18/2016	1991	1976	13.2	---	0.66%	
7/19/2016	2060	2046	12.1	---	0.59%	
7/20/2016	1789	1777	11.5	---	0.65%	
7/21/2016	1968	1960	10.7	---	0.54%	
7/22/2016	2119	2112	12.5	---	0.59%	
7/23/2016	2065	2058	14.4	---	0.70%	
7/24/2016	2036	2028	14.3	---	0.70%	
7/25/2016	2043	2036	13.6	---	0.67%	
7/26/2016	2062	2060	10.1	5.2	0.74%	
7/27/2016	2094	2084	10.9	---	0.52%	
7/28/2016	2100	2089	11.4	---	0.54%	
7/29/2016	2108	2097	13.1	---	0.62%	
7/30/2016	2092	2079	14.3	---	0.68%	
7/31/2016	2083	2069	14.3	---	0.69%	
8/1/2016	2081	2070	12.0	---	0.58%	
8/2/2016	2409	2399	12.1	3.3	0.50%	
8/3/2016	2443	2436	11.6	3.5	0.62%	
8/4/2016	2438	2431	12.2	2.5	0.60%	
8/5/2016	2406	2400	11.6	3.3	0.62%	
8/6/2016	2391	2383	13.3	---	0.56%	
8/7/2016	2365	2355	13.2	---	0.56%	
8/8/2016	2026	2030	10.0	4.2	0.70%	
8/9/2016	2338	2329	11.2	2.9	0.60%	
8/10/2016	2303	2291	13.5	---	0.59%	
8/11/2016	2176	2169	9.3	4.8	0.65%	
8/12/2016	2204	2197	10.1	3.8	0.63%	
8/13/2016	2226	2217	12.5	---	0.56%	
8/14/2016	2250	2241	12.7	---	0.57%	
8/15/2016	2293	2282	11.3	2.5	0.60%	
8/16/2016	1900	1889	9.6	2.8	0.51%	
8/17/2016	2278	2266	7.6	6.8	0.63%	
8/18/2016	2335	2325	7.2	9.6	0.72%	
8/19/2016	2354	2340	10.3	4.7	0.64%	
8/20/2016	2373	2352	13.3	---	0.56%	

Attachment 2: Plant Operational Flow Summary
3rd Quarter 2016
Lost Creek ISR Project PT788

Date	Production Flow Rate (avg gpm)	Injection Flow Rate (avg gpm)	Main Bleed Flow Rate (avg gpm)	Alternate Bleed* (equiv. gpm)	Total Bleed Rate (%)	Comments
8/21/2016	2354	2331	13.3	---	0.57%	
8/22/2016	2367	2355	8.8	5.7	0.61%	
8/23/2016	2411	2403	4.6	10.4	0.62%	
8/24/2016	2418	2410	7.1	10.4	0.73%	
8/25/2016	2396	2387	9.6	5.7	0.64%	
8/26/2016	2424	2408	13.6	---	0.56%	
8/27/2016	2442	2427	13.9	---	0.57%	
8/28/2016	2434	2421	13.6	---	0.56%	
8/29/2016	2240	2234	6.5	11.5	0.80%	
8/30/2016	2264	2255	8.8	6.8	0.69%	
8/31/2016	2429	2413	13.4	---	0.55%	
9/1/2016	2432	2414	13.9	---	0.57%	
9/2/2016	2429	2410	13.9	---	0.57%	
9/3/2016	2403	2383	14.8	---	0.62%	
9/4/2016	2350	2350	13.5	---	0.57%	
9/5/2016	2433	2421	13.7	---	0.56%	
9/6/2016	2420	2407	13.8	---	0.57%	
9/7/2016	2437	2426	12.1	2.5	0.60%	
9/8/2016	2256	2244	8.9	6.4	0.68%	
9/9/2016	2476	2464	12.7	2.3	0.60%	
9/10/2016	2490	2475	13.9	---	0.56%	
9/11/2016	2470	2456	14.0	---	0.56%	
9/12/2016	2472	2463	9.0	7.4	0.66%	
9/13/2016	2512	2502	11.1	5.0	0.64%	
9/14/2016	2481	2472	10.6	5.1	0.63%	
9/15/2016	2538	2529	9.3	7.9	0.68%	
9/16/2016	2563	2549	14.4	---	0.56%	
9/17/2016	2583	2568	15.0	---	0.58%	
9/18/2016	2565	2550	14.5	---	0.57%	
9/19/2016	2592	2581	11.4	6.9	0.70%	
9/20/2016	2627	2616	11.0	5.6	0.63%	
9/21/2016	2570	2547	12.6	3.2	0.62%	
9/22/2016	2549	2540	9.3	4.1	0.52%	
9/23/2016	2435	2422	11.2	4.2	0.63%	
9/24/2016	2501	2487	15.0	---	0.60%	
9/25/2016	2634	2622	14.7	---	0.56%	
9/26/2016	2792	2783	12.2	5.7	0.64%	
9/27/2016	2850	2843	9.6	10.8	0.72%	
9/28/2016	2820	2815	8.3	12.2	0.73%	
9/29/2016	2830	2821	11.6	6.4	0.64%	
9/30/2016	2810	2799	14.6	2.2	0.52%	

NOTE: Flow rates are normalized to a 24 hr period.

gpm: gallons per minute

*Wellfield swab water discharge to ponds - volume converted to equivalent flow rate

Attachment 2: HH1-1 Flow Summary
3rd Quarter 2016
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
7/1/2016	108	115	100	40	8	
7/2/2016	108	99	129	40	8	
7/3/2016	108	97	0	40	0	
7/4/2016	102	87	0	40	0	
7/5/2016	98	87	55	40	3	
7/6/2016	98	94	67	41	8	
7/7/2016	113	99	135	41	8	
7/8/2016	113	99	133	41	7	
7/9/2016	113	95	115	41	7	
7/10/2016	113	97	113	41	8	
7/11/2016	113	94	115	40	8	
7/12/2016	113	91	125	40	9	
7/13/2016	104	98	124	40	9	
7/14/2016	111	97	124	40	9	
7/15/2016	111	101	118	40	9	
7/16/2016	111	98	120	39	9	
7/17/2016	111	97	122	39	9	
7/18/2016	111	99	119	40	9	
7/19/2016	112	94	126	40	9	
7/20/2016	109	93	130	40	9	
7/21/2016	109	90	133	40	9	
7/22/2016	109	88	133	40	9	
7/23/2016	109	93	128	40	9	
7/24/2016	109	97	124	40	9	
7/25/2016	109	98	124	40	9	
7/26/2016	109	97	125	40	9	
7/27/2016	109	118	96	40	9	
7/28/2016	107	97	126	40	9	
7/29/2016	107	97	125	40	9	
7/30/2016	107	96	125	40	9	
7/31/2016	107	97	125	40	9	
8/1/2016	107	96	125	40	9	
8/2/2016	107	83	138	40	9	
8/3/2016	110	85	133	40	9	
8/4/2016	110	89	129	40	9	
8/5/2016	109	92	126	40	9	
8/6/2016	109	94	125	40	9	
8/7/2016	109	96	124	40	9	
8/8/2016	109	96	124	40	9	
8/9/2016	109	93	127	40	9	
8/10/2016	96	90	94	34	7	
8/11/2016	95	96	83	33	6	
8/12/2016	95	101	78	33	6	
8/13/2016	91	98	82	32	6	
8/14/2016	91	97	83	32	6	
8/15/2016	91	121	65	32	11	
8/16/2016	91	89	90	32	6	
8/17/2016	91	97	82	32	6	
8/18/2016	91	95	84	32	6	
8/19/2016	91	98	80	32	6	

Attachment 2: HH1-1 Flow Summary
3rd Quarter 2016
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
8/20/2016	91	98	80	32	6	
8/21/2016	91	122	64	32	6	
8/22/2016	91	122	64	32	6	
8/23/2016	91	122	64	32	6	
8/24/2016	93	121	81	32	7	
8/25/2016	93	121	81	32	7	
8/26/2016	92	121	88	32	8	
8/27/2016	92	120	84	32	8	
8/28/2016	92	121	84	32	8	
8/29/2016	92	120	83	32	8	
8/30/2016	93	121	65	32	7	
8/31/2016	93	121	65	32	7	
9/1/2016	93	124	65	30	7	
9/2/2016	93	124	65	30	7	
9/3/2016	93	124	65	30	7	
9/4/2016	93	124	65	30	7	
9/5/2016	93	78	114	32	7	
9/6/2016	93	125	69	32	7	
9/7/2016	93	95	88	32	6	
9/8/2016	93	87	86	32	6	
9/9/2016	93	125	62	32	6	
9/10/2016	93	126	62	32	6	
9/11/2016	93	125	62	32	6	
9/12/2016	93	125	62	32	6	
9/13/2016	93	125	68	32	7	
9/14/2016	81	95	87	32	8	
9/15/2016	83	125	95	32	9	
9/16/2016	84	125	93	32	9	
9/17/2016	84	125	93	32	9	
9/18/2016	84	125	93	32	9	
9/19/2016	84	125	93	32	9	
9/20/2016	84	125	89	32	9	
9/21/2016	84	120	91	32	9	
9/22/2016	84	93	119	32	9	
9/23/2016	84	109	93	32	9	
9/24/2016	84	70	154	32	9	
9/25/2016	84	98	93	32	9	
9/26/2016	84	115	93	32	9	
9/27/2016	84	115	93	30	9	
9/28/2016	84	116	110	32	9	
9/29/2016	84	117	103	32	9	
9/30/2016	84	87	138	32	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 fracture pressure for the well.
gpm: gallons per minute
psi: pounds per square inch

Attachment 2: HH1-2 Flow Summary
3rd Quarter 2016
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
7/1/2016	58	123	65	36	5	
7/2/2016	58	123	65	43	6	
7/3/2016	63	124	98	42	6	
7/4/2016	58	123	108	40	6	
7/5/2016	58	123	110	40	6	
7/6/2016	57	123	105	40	6	
7/7/2016	58	123	97	40	6	
7/8/2016	59	123	96	41	6	
7/9/2016	59	123	100	41	6	
7/10/2016	57	121	97	40	6	
7/11/2016	57	122	99	41	6	
7/12/2016	57	122	100	41	6	
7/13/2016	57	123	93	41	6	
7/14/2016	57	123	93	41	6	
7/15/2016	60	123	90	38	6	
7/16/2016	60	123	91	38	6	
7/17/2016	60	123	92	39	6	
7/18/2016	60	122	91	40	6	
7/19/2016	60	123	95	40	6	
7/20/2016	61	124	98	40	6	
7/21/2016	61	124	100	42	6	
7/22/2016	63	123	99	36	6	
7/23/2016	62	122	96	37	6	
7/24/2016	61	123	93	35	6	
7/25/2016	60	123	93	38	6	
7/26/2016	60	123	93	41	6	
7/27/2016	61	123	94	41	6	
7/28/2016	61	123	94	41	6	
7/29/2016	58	123	93	40	6	
7/30/2016	59	123	93	39	6	
7/31/2016	58	123	93	39	6	
8/1/2016	58	123	93	39	6	
8/2/2016	60	123	102	39	6	
8/3/2016	60	124	98	40	6	
8/4/2016	60	124	96	41	6	
8/5/2016	59	121	94	41	6	
8/6/2016	59	121	93	41	6	
8/7/2016	58	122	93	41	6	
8/8/2016	58	122	93	40	6	
8/9/2016	58	121	95	42	6	
8/10/2016	58	122	96	41	6	
8/11/2016	57	122	92	40	6	
8/12/2016	57	122	88	41	6	
8/13/2016	56	121	91	41	6	
8/14/2016	56	121	91	42	6	
8/15/2016	57	122	92	42	6	
8/16/2016	58	121	96	42	6	
8/17/2016	58	122	91	42	6	
8/18/2016	57	121	92	41	6	
8/19/2016	58	121	88	41	6	

Attachment 2: HH1-2 Flow Summary
3rd Quarter 2016
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
8/20/2016	58	122	89	40	6	
8/21/2016	58	122	89	39	6	
8/22/2016	57	122	89	42	6	
8/23/2016	58	122	92	41	6	
8/24/2016	57	122	90	41	6	
8/25/2016	58	122	90	41	5	
8/26/2016	57	122	96	41	10	
8/27/2016	57	122	73	41	5	
8/28/2016	58	122	90	41	5	
8/29/2016	58	122	90	41	5	
8/30/2016	58	123	89	41	5	
8/31/2016	58	126	92	41	5	
9/1/2016	58	126	90	41	5	
9/2/2016	58	126	90	42	5	
9/3/2016	55	125	86	39	4	
9/4/2016	56	126	86	40	4	
9/5/2016	51	113	96	40	4	
9/6/2016	54	122	85	40	4	
9/7/2016	54	122	85	40	4	
9/8/2016	53	122	89	39	4	
9/9/2016	53	123	81	40	4	
9/10/2016	52	124	84	38	4	
9/11/2016	52	124	84	38	4	
9/12/2016	51	125	83	40	4	
9/13/2016	51	122	84	38	5	
9/14/2016	51	123	83	36	5	
9/15/2016	51	122	80	36	5	
9/16/2016	51	122	83	36	5	
9/17/2016	51	122	81	37	5	
9/18/2016	51	122	81	37	5	
9/19/2016	50	122	80	37	5	
9/20/2016	51	122	81	37	5	
9/21/2016	50	122	81	39	5	
9/22/2016	51	124	81	39	5	
9/23/2016	51	125	80	39	4	
9/24/2016	48	101	74	40	4	
9/25/2016	43	91	60	38	4	
9/26/2016	47	106	73	38	4	
9/27/2016	49	109	71	36	4	
9/28/2016	49	111	69	35	4	
9/29/2016	52	121	66	35	4	
9/30/2016	52	121	64	37	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

Attachment 2: HH1-3 Flow Summary
3rd Quarter 2016
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
7/1/2016	106	123	105	38	5	
7/2/2016	125	123	104	36	5	
7/3/2016	109	124	108	37	5	
7/4/2016	124	123	114	37	5	
7/5/2016	123	123	116	37	5	
7/6/2016	125	123	111	37	5	
7/7/2016	126	123	105	37	5	
7/8/2016	127	123	104	37	5	
7/9/2016	128	123	106	37	5	
7/10/2016	125	123	104	37	5	
7/11/2016	129	123	106	37	5	
7/12/2016	129	123	105	37	5	
7/13/2016	110	122	100	37	6	
7/14/2016	122	122	123	37	6	
7/15/2016	112	122	119	31	6	
7/16/2016	113	123	120	31	6	
7/17/2016	113	122	122	31	6	
7/18/2016	112	122	120	37	6	
7/19/2016	128	122	125	37	6	
7/20/2016	132	125	127	37	6	
7/21/2016	132	125	129	37	6	
7/22/2016	132	123	129	37	6	
7/23/2016	131	123	126	37	6	
7/24/2016	128	123	123	37	6	
7/25/2016	127	122	123	37	6	
7/26/2016	127	122	123	37	6	
7/27/2016	128	122	124	37	6	
7/28/2016	128	122	124	37	6	
7/29/2016	128	123	123	37	6	
7/30/2016	128	123	124	37	6	
7/31/2016	127	123	123	37	6	
8/1/2016	127	123	123	37	6	
8/2/2016	130	123	131	37	6	
8/3/2016	131	124	129	37	6	
8/4/2016	130	124	126	37	6	
8/5/2016	128	122	124	37	6	
8/6/2016	128	122	123	37	6	
8/7/2016	127	122	123	37	6	
8/8/2016	127	122	122	36	6	
8/9/2016	127	122	124	38	6	
8/10/2016	124	123	126	40	6	
8/11/2016	126	122	123	40	6	
8/12/2016	125	123	119	39	6	
8/13/2016	124	122	122	39	6	
8/14/2016	126	122	123	39	6	
8/15/2016	127	122	124	39	7	
8/16/2016	128	122	128	39	6	
8/17/2016	124	122	123	39	6	
8/18/2016	125	122	123	39	6	
8/19/2016	125	122	120	39	6	

Attachment 2: HH1-3 Flow Summary
3rd Quarter 2016
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
8/20/2016	126	122	120	39	6	
8/21/2016	125	122	121	38	6	
8/22/2016	124	122	121	38	6	
8/23/2016	124	122	124	37	6	
8/24/2016	123	122	121	38	7	
8/25/2016	124	122	102	38	6	
8/26/2016	119	122	124	35	11	
8/27/2016	120	122	118	35	6	
8/28/2016	119	122	118	35	6	
8/29/2016	120	122	118	35	6	
8/30/2016	120	123	117	35	6	
8/31/2016	120	122	121	35	6	
9/1/2016	120	122	118	35	6	
9/2/2016	120	123	118	35	6	
9/3/2016	119	122	119	34	6	
9/4/2016	121	122	120	37	6	
9/5/2016	111	115	15	37	6	
9/6/2016	123	123	119	35	6	
9/7/2016	123	122	117	35	7	
9/8/2016	122	122	123	35	6	
9/9/2016	115	124	113	35	6	
9/10/2016	120	124	116	35	6	
9/11/2016	121	125	117	35	6	
9/12/2016	118	125	115	35	6	
9/13/2016	120	122	118	35	6	
9/14/2016	120	123	116	35	6	
9/15/2016	121	122	113	35	6	
9/16/2016	122	122	114	35	6	
9/17/2016	119	122	114	33	6	
9/18/2016	120	122	113	32	6	
9/19/2016	120	122	112	34	6	
9/20/2016	120	122	113	35	6	
9/21/2016	122	122	114	35	6	
9/22/2016	124	123	113	34	6	
9/23/2016	111	100	118	35	6	
9/24/2016	121	110	127	35	6	
9/25/2016	145	122	128	35	6	
9/26/2016	145	120	128	35	6	
9/27/2016	146	123	130	35	6	
9/28/2016	130	124	122	36	6	
9/29/2016	126	121	119	36	6	
9/30/2016	128	121	120	36	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

Attachment 2: HH1-4 Flow Summary
3rd Quarter 2016
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
7/1/2016	90	108	56	41	5	
7/2/2016	88	106	89	41	5	
7/3/2016	79	114	96	41	5	
7/4/2016	92	107	95	41	5	
7/5/2016	93	104	95	41	5	
7/6/2016	91	131	89	41	5	
7/7/2016	86	131	85	40	5	
7/8/2016	88	131	85	40	5	
7/9/2016	82	124	88	41	5	
7/10/2016	81	123	85	41	5	
7/11/2016	88	124	88	41	5	
7/12/2016	88	124	90	41	5	
7/13/2016	87	123	85	41	5	
7/14/2016	85	124	85	40	5	
7/15/2016	85	124	82	40	5	
7/16/2016	84	125	84	39	5	
7/17/2016	83	125	84	37	5	
7/18/2016	79	125	71	41	5	
7/19/2016	80	123	97	41	5	
7/20/2016	88	126	89	41	5	
7/21/2016	84	124	92	41	5	
7/22/2016	85	124	95	41	5	
7/23/2016	84	124	91	40	5	
7/24/2016	83	124	88	41	5	
7/25/2016	85	124	87	41	5	
7/26/2016	84	124	88	41	5	
7/27/2016	85	124	89	41	5	
7/28/2016	88	124	89	41	5	
7/29/2016	84	124	88	41	5	
7/30/2016	85	124	89	41	5	
7/31/2016	84	124	88	40	5	
8/1/2016	84	124	89	41	5	
8/2/2016	84	124	99	41	5	
8/3/2016	84	125	96	41	5	
8/4/2016	82	124	90	41	5	
8/5/2016	81	123	88	41	5	
8/6/2016	81	123	87	41	5	
8/7/2016	81	124	86	40	5	
8/8/2016	81	124	85	41	5	
8/9/2016	81	123	88	40	5	
8/10/2016	65	127	89	41	5	
8/11/2016	79	124	85	41	5	
8/12/2016	79	124	81	40	5	
8/13/2016	77	124	85	41	5	
8/14/2016	83	123	86	41	5	
8/15/2016	83	124	87	41	6	
8/16/2016	82	123	91	41	5	
8/17/2016	80	124	68	41	5	
8/18/2016	80	123	69	41	4	
8/19/2016	79	123	68	40	4	

Attachment 2: HH1-4 Flow Summary
3rd Quarter 2016
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
8/20/2016	80	123	68	41	4	
8/21/2016	80	123	67	41	4	
8/22/2016	79	123	67	40	4	
8/23/2016	80	123	69	40	4	
8/24/2016	79	123	68	41	5	
8/25/2016	80	123	72	41	4	
8/26/2016	80	123	35	41	3	
8/27/2016	80	123	56	41	4	
8/28/2016	80	123	71	40	4	
8/29/2016	79	123	71	41	4	
8/30/2016	80	124	70	41	4	
8/31/2016	78	122	72	41	4	
9/1/2016	77	122	70	41	4	
9/2/2016	77	122	70	41	4	
9/3/2016	92	116	72	41	4	
9/4/2016	93	116	73	41	4	
9/5/2016	74	119	72	41	4	
9/6/2016	89	123	72	40	4	
9/7/2016	88	123	71	40	4	
9/8/2016	89	123	75	41	4	
9/9/2016	87	124	69	41	4	
9/10/2016	88	125	71	41	4	
9/11/2016	87	125	71	41	4	
9/12/2016	87	126	70	40	4	
9/13/2016	89	123	71	40	4	
9/14/2016	89	124	70	40	4	
9/15/2016	88	124	68	40	4	
9/16/2016	88	123	70	40	4	
9/17/2016	93	122	69	40	4	
9/18/2016	92	122	69	40	4	
9/19/2016	92	122	69	40	4	
9/20/2016	92	122	69	40	4	
9/21/2016	90	124	70	40	4	
9/22/2016	90	124	70	40	4	
9/23/2016	89	125	70	41	4	
9/24/2016	77	104	79	41	4	
9/25/2016	108	106	58	41	4	
9/26/2016	108	105	59	41	4	
9/27/2016	108	106	60	41	4	
9/28/2016	90	125	77	41	4	
9/29/2016	89	124	75	40	4	
9/30/2016	90	124	76	40	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

Attachment 2: HH1-5 Flow Summary
3rd Quarter 2016
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
7/1/2016	72	132	48	31	4	
7/2/2016	77	132	48	31	4	
7/3/2016	46	133	48	31	4	
7/4/2016	74	132	55	31	4	
7/5/2016	77	132	56	31	4	
7/6/2016	77	132	53	30	4	
7/7/2016	74	132	49	31	4	
7/8/2016	75	132	48	29	4	
7/9/2016	68	125	50	31	4	
7/10/2016	65	124	49	31	4	
7/11/2016	76	124	50	31	4	
7/12/2016	77	126	50	31	4	
7/13/2016	74	124	46	31	4	
7/14/2016	76	126	47	31	4	
7/15/2016	70	125	44	26	3	
7/16/2016	70	126	45	27	4	
7/17/2016	71	125	46	26	4	
7/18/2016	70	125	45	31	4	
7/19/2016	76	126	47	31	4	
7/20/2016	79	127	49	31	4	
7/21/2016	79	126	50	31	4	
7/22/2016	75	126	50	31	4	
7/23/2016	76	126	48	30	4	
7/24/2016	71	127	46	31	4	
7/25/2016	75	126	46	31	4	
7/26/2016	74	125	47	31	4	
7/27/2016	78	126	47	31	4	
7/28/2016	77	126	47	31	4	
7/29/2016	77	126	47	31	4	
7/30/2016	78	126	47	31	4	
7/31/2016	76	126	47	31	4	
8/1/2016	76	127	47	31	4	
8/2/2016	76	126	51	30	4	
8/3/2016	77	127	49	31	4	
8/4/2016	77	126	48	31	4	
8/5/2016	77	125	47	31	4	
8/6/2016	77	125	47	31	4	
8/7/2016	76	126	46	31	4	
8/8/2016	77	125	46	31	4	
8/9/2016	76	125	47	31	4	
8/10/2016	59	129	48	31	4	
8/11/2016	75	126	46	31	4	
8/12/2016	73	124	44	31	4	
8/13/2016	74	126	45	31	4	
8/14/2016	77	125	46	31	4	
8/15/2016	75	126	47	31	4	
8/16/2016	76	125	48	31	4	
8/17/2016	77	125	46	31	4	
8/18/2016	75	125	47	31	4	
8/19/2016	74	126	45	31	4	

Attachment 2: HH1-5 Flow Summary
3rd Quarter 2016
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
8/20/2016	75	125	45	31	4	
8/21/2016	75	125	45	31	4	
8/22/2016	75	125	45	31	4	
8/23/2016	75	126	47	31	4	
8/24/2016	75	125	45	31	3	
8/25/2016	75	125	45	31	3	
8/26/2016	71	126	0	30	3	
8/27/2016	73	125	24	30	3	
8/28/2016	73	125	24	31	3	
8/29/2016	74	125	24	31	3	
8/30/2016	75	125	24	31	3	
8/31/2016	74	125	24	31	3	
9/1/2016	73	125	24	31	3	
9/2/2016	74	125	24	31	3	
9/3/2016	74	123	24	31	3	
9/4/2016	77	123	24	31	3	
9/5/2016	54	123	26	31	3	
9/6/2016	75	125	24	31	3	
9/7/2016	74	125	24	31	3	
9/8/2016	74	125	25	31	3	
9/9/2016	74	126	23	31	3	
9/10/2016	70	129	24	30	3	
9/11/2016	71	128	24	30	3	
9/12/2016	68	130	23	31	3	
9/13/2016	73	126	24	31	3	
9/14/2016	76	126	44	31	3	
9/15/2016	75	125	43	31	3	
9/16/2016	76	125	43	31	3	
9/17/2016	77	124	43	31	3	
9/18/2016	74	125	43	30	3	
9/19/2016	74	125	43	31	3	
9/20/2016	75	125	43	31	3	
9/21/2016	73	126	43	31	3	
9/22/2016	72	127	43	30	3	
9/23/2016	73	125	43	31	3	
9/24/2016	66	119	47	31	3	
9/25/2016	104	108	42	31	3	
9/26/2016	117	125	47	31	3	
9/27/2016	117	125	48	31	3	
9/28/2016	119	127	47	31	3	
9/29/2016	74	126	45	31	3	
9/30/2016	78	124	44	31	3	

* 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

Attachment 2: HH1-6 Flow Summary
3rd Quarter 2016
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
7/1/2016	94	127	110	45	7	
7/2/2016	113	127	106	45	7	
7/3/2016	81	128	106	45	7	
7/4/2016	114	127	112	45	7	
7/5/2016	116	127	113	45	7	
7/6/2016	116	127	114	45	7	
7/7/2016	114	128	108	45	7	
7/8/2016	114	127	107	45	7	
7/9/2016	113	127	113	45	7	
7/10/2016	112	128	104	45	7	
7/11/2016	114	128	114	45	7	
7/12/2016	113	127	116	45	7	
7/13/2016	109	126	101	45	7	
7/14/2016	111	128	109	45	7	
7/15/2016	103	128	103	45	7	
7/16/2016	102	128	107	43	7	
7/17/2016	102	128	102	43	7	
7/18/2016	101	127	104	45	7	
7/19/2016	110	128	106	45	7	
7/20/2016	111	129	107	45	7	
7/21/2016	112	129	115	45	7	
7/22/2016	112	129	118	45	7	
7/23/2016	110	128	106	44	7	
7/24/2016	106	129	102	45	7	
7/25/2016	106	129	107	45	7	
7/26/2016	107	128	102	45	7	
7/27/2016	109	129	109	45	7	
7/28/2016	108	128	102	45	7	
7/29/2016	108	128	101	45	7	
7/30/2016	109	128	108	45	7	
7/31/2016	108	128	103	45	7	
8/1/2016	108	129	102	45	7	
8/2/2016	109	128	111	45	7	
8/3/2016	110	129	107	45	7	
8/4/2016	111	129	114	45	7	
8/5/2016	108	129	102	45	8	
8/6/2016	108	129	107	45	7	
8/7/2016	107	129	109	45	7	
8/8/2016	107	129	109	45	7	
8/9/2016	107	128	104	45	7	
8/10/2016	100	129	105	45	7	
8/11/2016	113	129	101	45	7	
8/12/2016	103	129	99	45	7	
8/13/2016	116	124	106	45	7	
8/14/2016	114	128	106	45	7	
8/15/2016	115	129	108	45	8	
8/16/2016	115	128	112	45	7	
8/17/2016	114	129	106	45	7	
8/18/2016	114	128	103	45	7	
8/19/2016	112	128	102	45	7	

Attachment 2: HH1-6 Flow Summary
3rd Quarter 2016
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
8/20/2016	114	128	102	45	7	
8/21/2016	113	128	101	45	7	
8/22/2016	114	128	102	45	7	
8/23/2016	114	128	101	45	8	
8/24/2016	122	128	103	45	8	
8/25/2016	121	128	91	45	6	
8/26/2016	115	128	100	45	8	
8/27/2016	115	128	119	45	8	
8/28/2016	113	128	117	45	7	
8/29/2016	111	128	119	45	7	
8/30/2016	111	129	119	45	7	
8/31/2016	110	130	117	45	7	
9/1/2016	109	130	113	45	7	
9/2/2016	108	130	121	45	7	
9/3/2016	104	129	116	45	7	
9/4/2016	106	129	116	45	7	
9/5/2016	91	121	118	45	7	
9/6/2016	106	129	120	45	7	
9/7/2016	105	129	109	45	7	
9/8/2016	101	125	116	45	7	
9/9/2016	96	130	109	43	7	
9/10/2016	101	131	116	43	7	
9/11/2016	101	131	114	43	7	
9/12/2016	101	131	113	43	7	
9/13/2016	100	128	111	43	7	
9/14/2016	100	129	112	43	7	
9/15/2016	101	129	110	43	7	
9/16/2016	101	128	114	43	7	
9/17/2016	100	128	107	43	7	
9/18/2016	99	129	110	43	7	
9/19/2016	99	129	105	43	7	
9/20/2016	98	129	107	43	7	
9/21/2016	98	129	107	43	7	
9/22/2016	99	129	106	43	7	
9/23/2016	99	125	115	43	7	
9/24/2016	80	109	118	43	7	
9/25/2016	77	98	101	42	7	
9/26/2016	87	114	114	43	7	
9/27/2016	91	116	115	43	7	
9/28/2016	89	119	113	43	7	
9/29/2016	103	121	107	43	7	
9/30/2016	102	126	107	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

Attachment 2: HH1-7 Flow Summary
3rd Quarter 2016
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
7/1/2016	174	108	207	44	10	
7/2/2016	162	123	202	45	10	
7/3/2016	74	124	201	46	10	
7/4/2016	164	123	218	46	10	
7/5/2016	164	123	221	46	10	
7/6/2016	158	123	212	46	10	
7/7/2016	154	123	205	46	10	
7/8/2016	153	123	205	46	10	
7/9/2016	201	122	218	46	10	
7/10/2016	153	123	207	45	10	
7/11/2016	158	123	211	46	10	
7/12/2016	156	123	213	46	10	
7/13/2016	148	122	201	46	10	
7/14/2016	170	123	207	46	10	
7/15/2016	157	123	199	43	10	
7/16/2016	159	123	204	42	10	
7/17/2016	157	123	206	43	10	
7/18/2016	156	123	203	46	10	
7/19/2016	199	123	213	46	10	
7/20/2016	190	125	215	46	10	
7/21/2016	182	120	216	46	10	
7/22/2016	192	123	213	46	10	
7/23/2016	186	124	208	46	10	
7/24/2016	176	124	203	46	10	
7/25/2016	169	124	201	46	10	
7/26/2016	167	124	202	46	10	
7/27/2016	165	124	203	46	10	
7/28/2016	165	124	203	46	10	
7/29/2016	161	124	203	46	10	
7/30/2016	162	124	203	46	10	
7/31/2016	160	124	203	46	10	
8/1/2016	160	124	203	46	10	
8/2/2016	162	124	217	46	10	
8/3/2016	160	124	213	43	10	
8/4/2016	164	125	209	44	10	
8/5/2016	162	125	205	44	10	
8/6/2016	177	125	205	44	10	
8/7/2016	172	125	204	44	10	
8/8/2016	170	125	203	44	10	
8/9/2016	168	125	208	44	10	
8/10/2016	154	125	193	43	11	
8/11/2016	166	125	213	43	10	
8/12/2016	160	126	204	43	11	
8/13/2016	164	125	222	43	11	
8/14/2016	167	125	223	43	11	
8/15/2016	167	126	226	43	14	
8/16/2016	164	125	233	43	12	
8/17/2016	162	126	219	43	11	
8/18/2016	158	125	218	43	11	
8/19/2016	157	125	211	43	11	

Attachment 2: HH1-7 Flow Summary
3rd Quarter 2016
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
8/20/2016	159	125	213	43	11	
8/21/2016	158	125	212	43	11	
8/22/2016	156	125	213	43	11	
8/23/2016	156	125	217	43	12	
8/24/2016	165	125	215	43	12	
8/25/2016	163	125	218	43	11	
8/26/2016	162	125	228	43	13	
8/27/2016	155	125	222	43	11	
8/28/2016	161	125	206	43	11	
8/29/2016	158	125	209	43	11	
8/30/2016	158	126	206	43	11	
8/31/2016	154	129	204	43	11	
9/1/2016	153	129	200	43	11	
9/2/2016	151	129	183	43	10	
9/3/2016	150	128	183	43	10	
9/4/2016	148	129	184	44	10	
9/5/2016	124	120	193	42	11	
9/6/2016	144	130	178	42	9	
9/7/2016	142	130	177	42	9	
9/8/2016	151	130	189	42	9	
9/9/2016	131	131	170	40	9	
9/10/2016	135	132	175	41	9	
9/11/2016	138	132	174	41	9	
9/12/2016	134	132	173	42	9	
9/13/2016	145	130	179	42	9	
9/14/2016	141	131	173	42	9	
9/15/2016	141	131	167	42	9	
9/16/2016	140	131	169	42	9	
9/17/2016	141	130	168	42	9	
9/18/2016	138	130	167	41	9	
9/19/2016	138	130	166	41	9	
9/20/2016	137	130	166	42	9	
9/21/2016	137	130	168	44	9	
9/22/2016	134	126	169	40	8	
9/23/2016	134	107	191	44	9	
9/24/2016	133	110	186	44	9	
9/25/2016	137	114	180	44	9	
9/26/2016	136	114	183	44	9	
9/27/2016	138	115	187	44	9	
9/28/2016	139	115	192	42	10	
9/29/2016	137	120	191	42	10	
9/30/2016	136	120	187	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

Attachment 2: HH1-8 Flow Summary
3rd Quarter 2016
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
7/1/2016	131	102	131	42	6	
7/2/2016	130	104	128	42	6	
7/3/2016	136	100	130	42	6	
7/4/2016	143	103	138	42	6	
7/5/2016	141	103	139	42	6	
7/6/2016	139	103	134	42	6	
7/7/2016	145	124	130	42	6	
7/8/2016	142	123	130	42	6	
7/9/2016	138	123	138	42	6	
7/10/2016	134	124	132	42	6	
7/11/2016	134	124	136	42	6	
7/12/2016	136	124	137	42	6	
7/13/2016	129	123	130	42	6	
7/14/2016	134	124	132	42	6	
7/15/2016	128	124	128	41	6	
7/16/2016	130	124	109	41	5	
7/17/2016	130	124	110	41	5	
7/18/2016	129	123	109	42	5	
7/19/2016	133	124	134	42	6	
7/20/2016	137	126	136	42	7	
7/21/2016	132	119	160	42	7	
7/22/2016	137	124	150	42	7	
7/23/2016	136	124	148	42	7	
7/24/2016	133	124	144	42	7	
7/25/2016	139	123	144	42	7	
7/26/2016	137	123	145	42	7	
7/27/2016	139	124	145	42	7	
7/28/2016	140	124	146	42	7	
7/29/2016	139	124	145	42	7	
7/30/2016	139	124	146	42	7	
7/31/2016	138	124	145	42	7	
8/1/2016	138	124	145	42	7	
8/2/2016	139	124	134	42	6	
8/3/2016	151	124	132	42	6	
8/4/2016	148	124	128	42	7	
8/5/2016	145	124	146	42	7	
8/6/2016	145	124	146	42	7	
8/7/2016	143	124	145	42	7	
8/8/2016	143	124	144	42	7	
8/9/2016	152	123	148	42	7	
8/10/2016	153	124	148	42	7	
8/11/2016	148	124	142	42	7	
8/12/2016	146	124	137	42	7	
8/13/2016	145	123	137	42	7	
8/14/2016	146	123	138	42	7	
8/15/2016	145	123	142	42	9	
8/16/2016	145	123	147	42	9	
8/17/2016	154	124	174	42	9	
8/18/2016	144	123	174	42	9	
8/19/2016	143	123	167	42	9	

Attachment 2: HH1-8 Flow Summary
3rd Quarter 2016
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
8/20/2016	139	123	169	42	9	
8/21/2016	139	123	168	42	9	
8/22/2016	137	123	171	42	9	
8/23/2016	135	123	171	42	9	
8/24/2016	134	123	168	42	9	
8/25/2016	133	123	170	42	9	
8/26/2016	133	123	178	42	9	
8/27/2016	128	123	115	42	9	
8/28/2016	142	123	152	42	9	
8/29/2016	143	123	156	42	10	
8/30/2016	144	124	153	42	9	
8/31/2016	140	124	154	42	9	
9/1/2016	139	124	150	42	9	
9/2/2016	138	124	153	42	9	
9/3/2016	135	123	153	42	9	
9/4/2016	135	124	154	42	9	
9/5/2016	122	116	176	42	9	
9/6/2016	134	124	151	42	9	
9/7/2016	134	124	148	42	9	
9/8/2016	132	124	156	42	9	
9/9/2016	126	125	145	42	9	
9/10/2016	128	126	149	42	9	
9/11/2016	128	126	149	42	9	
9/12/2016	127	126	148	42	9	
9/13/2016	132	123	151	42	9	
9/14/2016	131	124	147	42	9	
9/15/2016	132	123	141	42	9	
9/16/2016	132	123	145	42	9	
9/17/2016	130	123	144	42	9	
9/18/2016	129	124	143	42	9	
9/19/2016	128	123	143	42	9	
9/20/2016	128	124	143	42	9	
9/21/2016	129	123	144	42	9	
9/22/2016	125	118	143	42	9	
9/23/2016	132	113	165	42	10	
9/24/2016	129	110	161	42	9	
9/25/2016	112	99	136	41	9	
9/26/2016	129	116	155	42	9	
9/27/2016	136	119	157	42	11	
9/28/2016	138	120	183	42	11	
9/29/2016	138	121	174	42	11	
9/30/2016	136	120	172	42	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 pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

Attachment 2: HH1-9 Flow Summary
3rd Quarter 2016
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
7/1/2016	297	102	243	45	9	
7/2/2016	285	100	236	47	9	
7/3/2016	301	100	278	47	11	
7/4/2016	297	100	253	47	11	
7/5/2016	294	101	231	47	11	
7/6/2016	288	100	244	48	11	
7/7/2016	296	116	240	47	12	
7/8/2016	277	116	239	47	10	
7/9/2016	273	116	226	47	10	
7/10/2016	266	117	221	47	11	
7/11/2016	273	116	225	47	11	
7/12/2016	278	116	223	47	13	
7/13/2016	288	115	250	47	13	
7/14/2016	289	116	252	47	12	
7/15/2016	274	116	226	47	10	
7/16/2016	276	117	232	47	10	
7/17/2016	272	116	234	47	10	
7/18/2016	274	116	231	47	10	
7/19/2016	283	116	238	47	10	
7/20/2016	287	118	240	47	10	
7/21/2016	293	121	245	47	10	
7/22/2016	300	117	246	47	10	
7/23/2016	322	116	265	47	11	
7/24/2016	307	117	257	47	11	
7/25/2016	309	117	257	47	11	
7/26/2016	312	117	259	47	11	
7/27/2016	314	117	260	47	11	
7/28/2016	318	116	264	47	11	
7/29/2016	308	117	262	47	11	
7/30/2016	307	117	262	47	11	
7/31/2016	303	117	261	47	11	
8/1/2016	303	117	262	47	11	
8/2/2016	310	116	281	47	13	
8/3/2016	310	117	274	47	13	
8/4/2016	310	117	281	47	12	
8/5/2016	305	117	272	47	12	
8/6/2016	304	118	270	47	12	
8/7/2016	299	118	268	47	12	
8/8/2016	299	118	268	47	13	
8/9/2016	323	117	318	48	14	
8/10/2016	296	118	293	45	14	
8/11/2016	289	118	279	48	14	
8/12/2016	306	119	290	48	14	
8/13/2016	311	118	297	48	14	
8/14/2016	312	118	311	48	14	
8/15/2016	314	118	323	48	21	
8/16/2016	312	117	288	48	14	
8/17/2016	303	119	274	48	14	
8/18/2016	299	118	278	48	14	
8/19/2016	298	118	266	48	14	

Attachment 2: HH1-9 Flow Summary
3rd Quarter 2016
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
8/20/2016	291	118	246	48	12	
8/21/2016	290	118	267	48	12	
8/22/2016	288	118	247	48	12	
8/23/2016	291	118	234	48	12	
8/24/2016	238	97	195	48	14	
8/25/2016	267	113	203	48	15	
8/26/2016	283	118	221	48	16	
8/27/2016	284	118	273	48	16	
8/28/2016	297	118	272	48	15	
8/29/2016	294	118	259	48	15	
8/30/2016	247	101	248	48	16	
8/31/2016	215	77	211	48	15	
9/1/2016	301	115	290	48	14	
9/2/2016	300	115	293	48	14	
9/3/2016	300	114	277	48	14	
9/4/2016	301	115	256	48	13	
9/5/2016	297	101	288	48	13	
9/6/2016	298	115	286	48	15	
9/7/2016	298	115	292	48	14	
9/8/2016	294	115	282	48	13	
9/9/2016	284	116	268	48	13	
9/10/2016	290	117	257	48	13	
9/11/2016	289	117	276	48	13	
9/12/2016	288	117	274	48	13	
9/13/2016	288	114	258	48	14	
9/14/2016	291	114	276	48	13	
9/15/2016	291	114	292	48	13	
9/16/2016	289	114	279	48	13	
9/17/2016	285	114	276	48	13	
9/18/2016	285	114	274	48	13	
9/19/2016	285	114	275	48	13	
9/20/2016	288	113	259	48	13	
9/21/2016	292	114	258	48	13	
9/22/2016	282	110	275	48	13	
9/23/2016	282	105	320	48	16	
9/24/2016	285	102	283	48	14	
9/25/2016	238	92	215	48	12	
9/26/2016	279	108	242	48	12	
9/27/2016	286	111	262	48	13	
9/28/2016	294	112	257	48	13	
9/29/2016	296	113	268	48	13	
9/30/2016	290	113	281	48	13	

* 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

Attachment 2: HH1-10 Flow Summary
3rd Quarter 2016
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
7/1/2016	108	112	148	53	9	
7/2/2016	105	109	142	53	10	
7/3/2016	106	111	142	53	10	
7/4/2016	110	108	153	53	10	
7/5/2016	111	110	153	53	10	
7/6/2016	110	110	144	52	10	
7/7/2016	108	110	142	53	10	
7/8/2016	141	121	144	52	10	
7/9/2016	140	121	148	52	10	
7/10/2016	126	121	145	53	10	
7/11/2016	123	121	149	53	10	
7/12/2016	142	121	152	53	10	
7/13/2016	150	120	144	52	10	
7/14/2016	150	121	145	52	10	
7/15/2016	142	121	141	52	10	
7/16/2016	140	121	143	52	10	
7/17/2016	139	121	145	52	10	
7/18/2016	137	121	143	52	10	
7/19/2016	137	121	147	52	10	
7/20/2016	137	123	149	52	10	
7/21/2016	144	124	154	53	10	
7/22/2016	138	122	156	53	10	
7/23/2016	135	122	149	53	10	
7/24/2016	130	122	143	53	10	
7/25/2016	125	122	142	53	10	
7/26/2016	126	122	144	53	10	
7/27/2016	128	122	145	53	11	
7/28/2016	130	122	148	53	10	
7/29/2016	123	122	147	53	10	
7/30/2016	142	122	150	53	10	
7/31/2016	141	122	150	52	10	
8/1/2016	139	122	152	52	10	
8/2/2016	153	122	157	53	11	
8/3/2016	148	122	144	53	12	
8/4/2016	149	122	153	53	10	
8/5/2016	146	122	150	52	10	
8/6/2016	146	123	148	52	10	
8/7/2016	143	123	146	52	10	
8/8/2016	143	123	145	52	10	
8/9/2016	142	122	149	52	10	
8/10/2016	134	123	145	50	9	
8/11/2016	132	123	139	51	9	
8/12/2016	100	82	97	52	8	
8/13/2016	68	45	69	31	5	
8/14/2016	67	51	70	27	5	
8/15/2016	66	53	71	52	13	
8/16/2016	122	95	57	46	5	
8/17/2016	159	75	57	41	3	
8/18/2016	126	95	44	52	7	
8/19/2016	139	113	92	52	10	

Attachment 2: HH1-10 Flow Summary
3rd Quarter 2016
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
8/20/2016	126	90	128	51	8	
8/21/2016	128	93	126	50	8	
8/22/2016	126	93	126	52	10	
8/23/2016	144	122	151	52	12	
8/24/2016	141	122	163	52	11	
8/25/2016	139	122	161	51	11	
8/26/2016	134	122	166	51	11	
8/27/2016	132	122	155	51	11	
8/28/2016	127	122	158	51	11	
8/29/2016	126	122	161	53	11	
8/30/2016	120	124	148	52	10	
8/31/2016	115	122	149	52	11	
9/1/2016	116	127	154	52	11	
9/2/2016	114	127	123	50	9	
9/3/2016	113	126	140	50	10	
9/4/2016	112	126	139	52	10	
9/5/2016	117	118	160	52	10	
9/6/2016	121	122	136	52	10	
9/7/2016	121	122	133	52	10	
9/8/2016	121	122	141	52	11	
9/9/2016	120	123	143	52	11	
9/10/2016	120	123	133	52	10	
9/11/2016	120	123	132	52	10	
9/12/2016	120	124	132	52	10	
9/13/2016	117	123	135	52	10	
9/14/2016	114	122	133	52	10	
9/15/2016	118	124	133	52	10	
9/16/2016	116	123	137	52	10	
9/17/2016	115	123	134	52	10	
9/18/2016	114	123	133	51	10	
9/19/2016	113	123	133	51	10	
9/20/2016	113	123	133	52	10	
9/21/2016	114	123	133	52	11	
9/22/2016	115	123	134	52	12	
9/23/2016	195	114	168	51	13	
9/24/2016	185	105	195	50	11	
9/25/2016	169	95	158	47	11	
9/26/2016	180	111	180	51	13	
9/27/2016	239	112	179	51	13	
9/28/2016	266	108	179	44	15	
9/29/2016	295	113	240	53	16	
9/30/2016	370	87	238	53	18	

* 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

Attachment 2: HH1-11 Flow Summary
3rd Quarter 2016
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
7/1/2016	453	109	435	51	24	
7/2/2016	429	107	436	51	24	
7/3/2016	420	110	401	51	24	
7/4/2016	438	108	461	51	24	
7/5/2016	428	109	458	51	24	
7/6/2016	417	107	430	51	23	
7/7/2016	403	109	401	51	23	
7/8/2016	393	120	405	51	23	
7/9/2016	387	120	410	51	23	
7/10/2016	349	122	356	51	21	
7/11/2016	356	122	361	51	21	
7/12/2016	351	122	339	51	21	
7/13/2016	340	121	347	51	21	
7/14/2016	339	122	352	51	21	
7/15/2016	328	122	340	51	21	
7/16/2016	329	122	352	51	21	
7/17/2016	326	123	344	51	20	
7/18/2016	315	122	316	51	21	
7/19/2016	321	121	343	51	21	
7/20/2016	340	123	350	51	20	
7/21/2016	345	125	360	51	20	
7/22/2016	337	123	348	51	20	
7/23/2016	335	123	316	51	18	
7/24/2016	326	123	303	51	18	
7/25/2016	318	122	300	51	18	
7/26/2016	319	122	287	51	18	
7/27/2016	322	122	303	51	18	
7/28/2016	321	122	300	51	18	
7/29/2016	311	122	300	51	18	
7/30/2016	309	122	304	51	18	
7/31/2016	305	122	298	51	18	
8/1/2016	300	122	271	50	16	
8/2/2016	292	123	295	50	16	
8/3/2016	290	123	307	51	16	
8/4/2016	279	123	298	51	16	
8/5/2016	276	122	291	51	16	
8/6/2016	275	123	275	51	15	
8/7/2016	274	123	270	51	15	
8/8/2016	274	123	269	51	15	
8/9/2016	263	123	242	51	12	
8/10/2016	199	83	139	47	11	
8/11/2016	186	75	172	51	10	
8/12/2016	131	42	126	51	10	
8/13/2016	195	73	195	51	10	
8/14/2016	195	73	194	51	10	
8/15/2016	195	73	197	51	27	
8/16/2016	248	113	279	51	16	
8/17/2016	255	127	274	51	18	
8/18/2016	258	125	310	51	16	
8/19/2016	253	125	281	51	16	

Attachment 2: HH1-11 Flow Summary
3rd Quarter 2016
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
8/20/2016	250	121	274	51	16	
8/21/2016	248	121	257	51	16	
8/22/2016	246	121	257	51	15	
8/23/2016	265	122	274	51	16	
8/24/2016	259	122	266	51	16	
8/25/2016	259	122	270	51	16	
8/26/2016	260	122	270	51	16	
8/27/2016	259	122	247	51	15	
8/28/2016	251	123	215	51	14	
8/29/2016	248	123	225	51	14	
8/30/2016	250	125	237	50	12	
8/31/2016	275	129	221	50	12	
9/1/2016	272	129	217	50	12	
9/2/2016	265	129	219	50	13	
9/3/2016	264	128	236	50	13	
9/4/2016	254	122	239	50	13	
9/5/2016	238	115	225	50	13	
9/6/2016	252	121	231	50	13	
9/7/2016	250	121	228	51	13	
9/8/2016	270	119	235	51	13	
9/9/2016	276	131	250	51	14	
9/10/2016	276	124	251	51	12	
9/11/2016	277	124	247	51	12	
9/12/2016	274	124	244	51	12	
9/13/2016	312	120	244	51	12	
9/14/2016	323	122	241	51	12	
9/15/2016	307	74	236	51	14	
9/16/2016	379	74	264	51	18	
9/17/2016	385	89	310	51	17	
9/18/2016	377	91	306	51	17	
9/19/2016	373	92	304	51	19	
9/20/2016	414	87	355	51	19	
9/21/2016	444	93	386	51	22	
9/22/2016	489	93	390	51	23	
9/23/2016	453	95	435	51	24	
9/24/2016	410	80	514	51	23	
9/25/2016	421	77	392	51	22	
9/26/2016	417	90	422	51	25	
9/27/2016	405	93	436	51	25	
9/28/2016	411	97	435	51	25	
9/29/2016	397	96	416	51	24	
9/30/2016	395	96	404	51	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

Attachment 2: HH1-12 Flow Summary
3rd Quarter 2016
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
7/1/2016	431	100	460	47	21	
7/2/2016	426	102	440	47	21	
7/3/2016	415	103	388	47	20	
7/4/2016	425	102	445	47	20	
7/5/2016	414	101	442	47	20	
7/6/2016	413	118	417	47	21	
7/7/2016	394	119	410	47	20	
7/8/2016	392	119	410	50	21	
7/9/2016	423	118	442	50	21	
7/10/2016	386	120	386	50	19	
7/11/2016	385	120	386	50	19	
7/12/2016	384	120	409	50	19	
7/13/2016	377	119	389	50	19	
7/14/2016	382	120	395	50	19	
7/15/2016	374	120	383	50	19	
7/16/2016	392	120	393	50	19	
7/17/2016	388	120	381	50	18	
7/18/2016	342	121	369	50	18	
7/19/2016	354	121	361	50	20	
7/20/2016	401	121	425	50	20	
7/21/2016	439	115	413	50	20	
7/22/2016	429	119	416	50	23	
7/23/2016	420	119	463	50	23	
7/24/2016	401	120	446	50	23	
7/25/2016	400	120	443	50	23	
7/26/2016	398	120	446	50	23	
7/27/2016	419	120	450	50	24	
7/28/2016	428	119	468	50	25	
7/29/2016	467	118	476	50	24	
7/30/2016	464	118	477	50	24	
7/31/2016	457	118	473	50	24	
8/1/2016	452	119	482	50	24	
8/2/2016	432	119	383	50	16	
8/3/2016	395	121	373	49	16	
8/4/2016	354	106	299	49	20	
8/5/2016	365	112	345	49	20	
8/6/2016	318	90	325	49	18	
8/7/2016	312	89	311	49	16	
8/8/2016	311	90	309	49	19	
8/9/2016	337	104	290	49	19	
8/10/2016	370	115	405	47	20	
8/11/2016	361	118	368	48	20	
8/12/2016	369	122	355	48	20	
8/13/2016	362	122	321	48	17	
8/14/2016	360	122	321	49	17	
8/15/2016	362	122	327	49	28	
8/16/2016	348	122	344	48	18	
8/17/2016	395	120	409	49	18	
8/18/2016	383	118	384	49	18	
8/19/2016	389	118	385	48	19	

Attachment 2: HH1-12 Flow Summary
3rd Quarter 2016
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
8/20/2016	419	116	396	49	19	
8/21/2016	431	116	394	48	19	
8/22/2016	424	116	393	48	19	
8/23/2016	412	117	406	48	20	
8/24/2016	458	114	421	48	22	
8/25/2016	482	112	476	48	22	
8/26/2016	475	111	453	47	22	
8/27/2016	464	114	469	46	22	
8/28/2016	454	115	441	46	21	
8/29/2016	468	114	441	47	23	
8/30/2016	512	112	455	45	23	
8/31/2016	470	118	442	45	22	
9/1/2016	463	117	463	45	23	
9/2/2016	460	118	464	45	23	
9/3/2016	464	114	471	45	23	
9/4/2016	474	117	467	46	23	
9/5/2016	445	110	469	46	23	
9/6/2016	465	119	441	46	25	
9/7/2016	459	119	453	47	26	
9/8/2016	444	120	517	46	27	
9/9/2016	480	119	497	46	28	
9/10/2016	517	117	527	46	28	
9/11/2016	515	118	520	46	28	
9/12/2016	513	118	518	47	28	
9/13/2016	503	118	515	47	28	
9/14/2016	506	118	514	47	28	
9/15/2016	506	118	506	47	28	
9/16/2016	499	119	504	47	27	
9/17/2016	524	117	504	47	27	
9/18/2016	518	117	502	47	27	
9/19/2016	517	117	503	47	27	
9/20/2016	515	118	485	47	27	
9/21/2016	524	116	531	47	28	
9/22/2016	504	112	544	47	28	
9/23/2016	519	122	567	46	28	
9/24/2016	418	100	18	46	28	
9/25/2016	502	85	512	46	28	
9/26/2016	543	99	573	46	28	
9/27/2016	538	102	567	46	28	
9/28/2016	553	102	540	46	27	
9/29/2016	541	104	529	46	27	
9/30/2016	532	104	514	46	27	

* 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

Attachment 2: HH1-13 Flow Summary
3rd Quarter 2016
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
7/1/2016	519	79	517	47	28	
7/2/2016	521	88	520	47	28	
7/3/2016	515	82	516	47	28	
7/4/2016	521	83	518	47	28	
7/5/2016	518	83	517	47	28	
7/6/2016	519	86	519	47	28	
7/7/2016	519	88	519	47	28	
7/8/2016	519	89	519	47	28	
7/9/2016	519	89	518	47	28	
7/10/2016	516	94	515	47	28	
7/11/2016	518	91	518	47	28	
7/12/2016	526	96	525	47	28	
7/13/2016	512	96	513	47	28	
7/14/2016	514	98	514	47	28	
7/15/2016	514	99	513	47	28	
7/16/2016	514	99	514	47	28	
7/17/2016	515	100	515	47	28	
7/18/2016	515	100	513	47	28	
7/19/2016	510	103	511	47	28	
7/20/2016	510	107	509	47	28	
7/21/2016	505	105	505	47	27	
7/22/2016	515	108	517	47	28	
7/23/2016	486	96	487	47	27	
7/24/2016	501	101	500	47	27	
7/25/2016	497	107	496	47	28	
7/26/2016	519	91	520	47	26	
7/27/2016	488	88	491	47	27	
7/28/2016	511	103	511	47	26	
7/29/2016	453	96	453	47	27	
7/30/2016	492	114	491	47	25	
7/31/2016	479	109	479	46	25	
8/1/2016	497	103	497	46	25	
8/2/2016	494	105	493	46	25	
8/3/2016	432	98	446	46	24	
8/4/2016	422	111	471	45	24	
8/5/2016	455	109	468	44	24	
8/6/2016	458	109	471	44	24	
8/7/2016	455	110	473	44	24	
8/8/2016	447	110	468	44	24	
8/9/2016	444	110	484	44	24	
8/10/2016	454	106	427	44	23	
8/11/2016	414	112	419	44	23	
8/12/2016	377	115	429	44	23	
8/13/2016	412	112	441	44	23	
8/14/2016	408	111	443	44	23	
8/15/2016	435	111	447	44	28	
8/16/2016	440	111	446	44	23	
8/17/2016	439	111	428	43	22	
8/18/2016	430	109	427	43	23	
8/19/2016	405	112	436	43	23	

Attachment 2: HH1-13 Flow Summary
3rd Quarter 2016
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
8/20/2016	408	112	437	43	23	
8/21/2016	410	112	438	43	23	
8/22/2016	402	111	437	43	23	
8/23/2016	445	110	440	44	24	
8/24/2016	451	109	458	44	24	
8/25/2016	447	109	455	44	24	
8/26/2016	441	110	464	44	25	
8/27/2016	452	109	458	44	25	
8/28/2016	455	109	480	44	25	
8/29/2016	454	108	477	44	26	
8/30/2016	458	110	481	44	26	
8/31/2016	466	113	495	44	26	
9/1/2016	457	113	483	44	27	
9/2/2016	469	112	497	46	28	
9/3/2016	470	107	497	46	27	
9/4/2016	461	113	495	46	27	
9/5/2016	460	104	512	46	27	
9/6/2016	459	114	502	46	27	
9/7/2016	457	114	494	47	27	
9/8/2016	465	113	515	47	27	
9/9/2016	510	112	488	47	27	
9/10/2016	490	114	508	47	27	
9/11/2016	487	114	504	47	27	
9/12/2016	488	114	502	47	28	
9/13/2016	461	115	515	47	28	
9/14/2016	465	115	513	47	28	
9/15/2016	463	115	505	47	28	
9/16/2016	467	114	520	47	28	
9/17/2016	455	116	518	47	28	
9/18/2016	470	115	522	47	28	
9/19/2016	470	115	523	47	28	
9/20/2016	467	115	523	47	28	
9/21/2016	474	114	490	47	27	
9/22/2016	459	110	481	47	27	
9/23/2016	469	97	497	47	25	
9/24/2016	422	95	506	47	25	
9/25/2016	460	100	475	47	25	
9/26/2016	484	100	481	47	25	
9/27/2016	462	103	489	47	25	
9/28/2016	457	104	523	47	28	
9/29/2016	450	105	533	47	28	
9/30/2016	447	104	524	47	28	

* 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

Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2016
Lost Creek ISR Project PT788

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-101	MU1 Ring	7/7/2016	187.90	
M-101	MU1 Ring	7/19/2016	179.50	
M-101	MU1 Ring	8/3/2016	169.67	
M-101	MU1 Ring	8/17/2016	170.71	
M-101	MU1 Ring	9/2/2016	170.50	
M-101	MU1 Ring	9/23/2016	169.42	
M-102	MU1 Ring	7/7/2016	191.43	
M-102	MU1 Ring	7/20/2016	185.93	
M-102	MU1 Ring	8/3/2016	173.78	
M-102	MU1 Ring	8/17/2016	174.90	
M-102	MU1 Ring	9/2/2016	177.32	
M-102	MU1 Ring	9/23/2016	173.27	
M-103A	MU1 Ring	7/7/2016	186.47	
M-103A	MU1 Ring	7/20/2016	179.59	
M-103A	MU1 Ring	8/3/2016	166.30	
M-103A	MU1 Ring	8/17/2016	169.37	
M-103A	MU1 Ring	9/1/2016	171.23	
M-103A	MU1 Ring	9/23/2016	166.78	
M-104	MU1 Ring	7/7/2016	203.33	
M-104	MU1 Ring	7/20/2016	190.27	
M-104	MU1 Ring	8/3/2016	181.17	
M-104	MU1 Ring	8/17/2016	187.50	
M-104	MU1 Ring	9/1/2016	187.00	
M-104	MU1 Ring	9/23/2016	170.42	
M-105	MU1 Ring	7/7/2016	207.12	
M-105	MU1 Ring	7/20/2016	187.33	
M-105	MU1 Ring	8/3/2016	183.87	
M-105	MU1 Ring	8/17/2016	185.13	
M-105	MU1 Ring	9/2/2016	183.53	
M-105	MU1 Ring	9/23/2016	169.46	
M-106	MU1 Ring	7/7/2016	202.96	
M-106	MU1 Ring	7/20/2016	178.90	
M-106	MU1 Ring	8/3/2016	181.21	
M-106	MU1 Ring	8/17/2016	176.45	
M-106	MU1 Ring	9/2/2016	175.17	
M-106	MU1 Ring	9/23/2016	162.93	
M-107	MU1 Ring	7/7/2016	209.73	
M-107	MU1 Ring	7/20/2016	195.80	
M-107	MU1 Ring	8/3/2016	199.72	
M-107	MU1 Ring	8/17/2016	184.50	
M-107	MU1 Ring	9/2/2016	190.96	
M-107	MU1 Ring	9/23/2016	180.72	
M-108	MU1 Ring	7/7/2016	210.42	
M-108	MU1 Ring	7/20/2016	196.13	
M-108	MU1 Ring	8/3/2016	200.37	
M-108	MU1 Ring	8/17/2016	184.90	
M-108	MU1 Ring	9/2/2016	191.50	
M-108	MU1 Ring	9/23/2016	181.46	
M-109	MU1 Ring	7/7/2016	202.58	

Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2016
Lost Creek ISR Project PT788

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-109	MU1 Ring	7/20/2016	192.14	
M-109	MU1 Ring	8/3/2016	195.70	
M-109	MU1 Ring	8/17/2016	180.89	
M-109	MU1 Ring	9/2/2016	186.87	
M-109	MU1 Ring	9/23/2016	178.14	
M-110	MU1 Ring	7/7/2016	200.00	
M-110	MU1 Ring	7/20/2016	195.70	
M-110	MU1 Ring	8/3/2016	200.25	
M-110	MU1 Ring	8/18/2016	184.50	
M-110	MU1 Ring	9/2/2016	188.79	
M-110	MU1 Ring	9/23/2016	182.50	
M-111	MU1 Ring	7/7/2016	186.57	
M-111	MU1 Ring	7/20/2016	186.78	
M-111	MU1 Ring	8/3/2016	192.30	
M-111	MU1 Ring	8/18/2016	174.12	
M-111	MU1 Ring	9/2/2016	176.35	
M-111	MU1 Ring	9/23/2016	171.61	
M-112	MU1 Ring	7/7/2016	195.51	
M-112	MU1 Ring	7/20/2016	196.97	
M-112	MU1 Ring	8/3/2016	200.99	
M-112	MU1 Ring	8/18/2016	184.17	
M-112	MU1 Ring	9/2/2016	185.50	
M-112	MU1 Ring	9/23/2016	181.32	
M-113	MU1 Ring	7/6/2016	208.27	
M-113	MU1 Ring	7/19/2016	207.00	
M-113	MU1 Ring	8/2/2016	214.03	
M-113	MU1 Ring	8/16/2016	197.91	
M-113	MU1 Ring	9/1/2016	196.87	
M-113	MU1 Ring	9/21/2016	190.70	
M-114A	MU1 Ring	7/6/2016	180.98	
M-114A	MU1 Ring	7/19/2016	202.40	
M-114A	MU1 Ring	8/2/2016	206.84	
M-114A	MU1 Ring	8/16/2016	197.80	
M-114A	MU1 Ring	9/1/2016	199.90	
M-114A	MU1 Ring	9/21/2016	206.92	
M-115A	MU1 Ring	7/6/2016	167.02	
M-115A	MU1 Ring	7/19/2016	202.57	
M-115A	MU1 Ring	8/2/2016	208.55	
M-115A	MU1 Ring	8/16/2016	197.77	
M-115A	MU1 Ring	9/1/2016	196.50	
M-115A	MU1 Ring	9/21/2016	215.57	
M-116A	MU1 Ring	7/6/2016	155.63	
M-116A	MU1 Ring	7/19/2016	192.13	
M-116A	MU1 Ring	8/2/2016	199.52	
M-116A	MU1 Ring	8/16/2016	187.80	
M-116A	MU1 Ring	9/1/2016	184.64	
M-116A	MU1 Ring	9/21/2016	206.69	
M-117	MU1 Ring	7/6/2016	170.62	
M-117	MU1 Ring	7/19/2016	199.82	

Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2016
Lost Creek ISR Project PT788

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-117	MU1 Ring	8/2/2016	205.58	
M-117	MU1 Ring	8/16/2016	207.14	
M-117	MU1 Ring	9/1/2016	197.80	
M-117	MU1 Ring	9/21/2016	215.71	
M-118	MU1 Ring	7/6/2016	172.85	
M-118	MU1 Ring	7/19/2016	190.66	
M-118	MU1 Ring	8/2/2016	211.00	
M-118	MU1 Ring	8/16/2016	201.31	
M-118	MU1 Ring	9/1/2016	198.82	
M-118	MU1 Ring	9/21/2016	211.80	
M-119	MU1 Ring	7/6/2016	187.97	
M-119	MU1 Ring	7/19/2016	200.58	
M-119	MU1 Ring	8/2/2016	212.85	
M-119	MU1 Ring	8/16/2016	207.00	
M-119	MU1 Ring	9/1/2016	212.62	
M-119	MU1 Ring	9/21/2016	223.77	
M-120A	MU1 Ring	7/6/2016	176.96	
M-120A	MU1 Ring	7/19/2016	182.15	
M-120A	MU1 Ring	8/2/2016	190.99	
M-120A	MU1 Ring	8/17/2016	201.70	
M-120A	MU1 Ring	9/1/2016	202.80	
M-120A	MU1 Ring	9/21/2016	207.43	
M-121	MU1 Ring	7/6/2016	183.98	
M-121	MU1 Ring	7/19/2016	184.16	
M-121	MU1 Ring	8/2/2016	188.04	
M-121	MU1 Ring	8/17/2016	202.03	
M-121	MU1 Ring	9/1/2016	203.23	
M-121	MU1 Ring	9/21/2016	204.03	
M-122	MU1 Ring	7/6/2016	182.82	
M-122	MU1 Ring	7/19/2016	182.46	
M-122	MU1 Ring	8/2/2016	185.00	
M-122	MU1 Ring	8/17/2016	196.17	
M-122	MU1 Ring	9/1/2016	203.02	
M-122	MU1 Ring	9/21/2016	202.70	
M-123	MU1 Ring	7/6/2016	177.60	
M-123	MU1 Ring	7/19/2016	177.10	
M-123	MU1 Ring	8/2/2016	178.00	
M-123	MU1 Ring	8/17/2016	196.36	
M-123	MU1 Ring	9/1/2016	199.42	
M-123	MU1 Ring	9/23/2016	199.50	
M-124	MU1 Ring	7/6/2016	180.00	
M-124	MU1 Ring	7/19/2016	179.53	
M-124	MU1 Ring	8/2/2016	179.60	
M-124	MU1 Ring	8/17/2016	198.57	
M-124	MU1 Ring	9/1/2016	202.91	
M-124	MU1 Ring	9/23/2016	199.50	
M-125	MU1 Ring	7/6/2016	170.91	
M-125	MU1 Ring	7/19/2016	170.95	
M-125	MU1 Ring	8/2/2016	170.40	

Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2016
Lost Creek ISR Project PT788

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-125	MU1 Ring	8/17/2016	186.72	
M-125	MU1 Ring	9/1/2016	191.20	
M-125	MU1 Ring	9/23/2016	209.13	
M-126	MU1 Ring	7/6/2016	173.53	
M-126	MU1 Ring	7/19/2016	172.95	
M-126	MU1 Ring	8/2/2016	172.67	
M-126	MU1 Ring	8/17/2016	187.10	
M-126	MU1 Ring	9/1/2016	190.71	
M-126	MU1 Ring	9/23/2016	189.80	
M-127	MU1 Ring	7/6/2016	184.00	
M-127	MU1 Ring	7/19/2016	175.00	
M-127	MU1 Ring	8/2/2016	170.20	
M-127	MU1 Ring	8/17/2016	170.98	
M-127	MU1 Ring	9/1/2016	170.91	
M-127	MU1 Ring	9/23/2016	168.78	
M-128	MU1 Ring	7/6/2016	186.00	
M-128	MU1 Ring	7/19/2016	178.40	
M-128	MU1 Ring	8/3/2016	169.04	
M-128	MU1 Ring	8/17/2016	170.00	
M-128	MU1 Ring	9/1/2016	171.11	
M-128	MU1 Ring	9/23/2016	168.83	
MO-101	MU1 Overlying	7/7/2016	162.61	
MO-101	MU1 Overlying	7/21/2016	161.77	
MO-101	MU1 Overlying	8/4/2016	160.42	
MO-101	MU1 Overlying	8/18/2016	161.42	
MO-101	MU1 Overlying	9/3/2016	161.63	
MO-101	MU1 Overlying	9/26/2016	159.60	
MO-102	MU1 Overlying	7/7/2016	167.90	
MO-102	MU1 Overlying	7/21/2016	164.95	
MO-102	MU1 Overlying	8/4/2016	164.30	
MO-102	MU1 Overlying	8/18/2016	164.33	
MO-102	MU1 Overlying	9/3/2016	168.97	
MO-102	MU1 Overlying	9/26/2016	166.79	
MO-103	MU1 Overlying	7/7/2016	162.29	
MO-103	MU1 Overlying	7/21/2016	160.44	
MO-103	MU1 Overlying	8/4/2016	161.70	
MO-103	MU1 Overlying	8/18/2016	162.73	
MO-103	MU1 Overlying	9/3/2016	163.64	
MO-103	MU1 Overlying	9/26/2016	163.83	
MO-104	MU1 Overlying	7/7/2016	175.42	
MO-104	MU1 Overlying	7/21/2016	173.59	
MO-104	MU1 Overlying	8/4/2016	173.54	
MO-104	MU1 Overlying	8/18/2016	177.76	
MO-104	MU1 Overlying	9/3/2016	178.13	
MO-104	MU1 Overlying	9/26/2016	177.49	
MO-105	MU1 Overlying	7/7/2016	167.00	
MO-105	MU1 Overlying	7/22/2016	166.90	
MO-105	MU1 Overlying	8/4/2016	169.02	
MO-105	MU1 Overlying	8/18/2016	173.95	

Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2016
Lost Creek ISR Project PT788

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
MO-105	MU1 Overlying	9/3/2016	174.21	
MO-105	MU1 Overlying	9/26/2016	174.63	
MO-106	MU1 Overlying	7/8/2016	165.69	
MO-106	MU1 Overlying	7/22/2016	164.23	
MO-106	MU1 Overlying	8/4/2016	167.17	
MO-106	MU1 Overlying	8/18/2016	167.39	
MO-106	MU1 Overlying	9/3/2016	167.91	
MO-106	MU1 Overlying	9/26/2016	170.90	
MO-107	MU1 Overlying	7/8/2016	162.36	
MO-107	MU1 Overlying	7/22/2016	160.49	
MO-107	MU1 Overlying	8/4/2016	162.17	
MO-107	MU1 Overlying	8/18/2016	161.97	
MO-107	MU1 Overlying	9/3/2016	162.31	
MO-107	MU1 Overlying	9/26/2016	164.92	
MO-108	MU1 Overlying	7/8/2016	161.32	
MO-108	MU1 Overlying	7/22/2016	160.73	
MO-108	MU1 Overlying	8/4/2016	162.52	
MO-108	MU1 Overlying	8/18/2016	163.39	
MO-108	MU1 Overlying	9/3/2016	165.66	
MO-108	MU1 Overlying	9/27/2016	167.20	
MO-108	MU1 Overlying	9/29/2016	167.13	
MO-109	MU1 Overlying	7/8/2016	172.96	
MO-109	MU1 Overlying	7/22/2016	170.21	
MO-109	MU1 Overlying	8/4/2016	172.20	
MO-109	MU1 Overlying	8/19/2016	172.89	
MO-109	MU1 Overlying	9/3/2016	173.21	
MO-109	MU1 Overlying	9/27/2016	174.10	
MO-110	MU1 Overlying	7/8/2016	164.94	
MO-110	MU1 Overlying	7/22/2016	164.23	
MO-110	MU1 Overlying	8/4/2016	171.59	
MO-110	MU1 Overlying	8/19/2016	170.68	
MO-110	MU1 Overlying	9/3/2016	170.90	
MO-110	MU1 Overlying	9/27/2016	173.53	
MO-111	MU1 Overlying	7/8/2016	167.91	
MO-111	MU1 Overlying	7/22/2016	165.32	
MO-111	MU1 Overlying	8/5/2016	163.24	
MO-111	MU1 Overlying	8/19/2016	163.09	
MO-111	MU1 Overlying	9/3/2016	163.79	
MO-111	MU1 Overlying	9/27/2016	172.62	
MO-112	MU1 Overlying	7/8/2016	169.02	
MO-112	MU1 Overlying	7/22/2016	167.80	
MO-112	MU1 Overlying	8/5/2016	164.29	
MO-112	MU1 Overlying	8/19/2016	163.89	
MO-112	MU1 Overlying	9/3/2016	163.99	
MO-112	MU1 Overlying	9/27/2016	173.57	
MO-113	MU1 Overlying	7/8/2016	165.21	
MO-113	MU1 Overlying	7/22/2016	164.63	
MO-113	MU1 Overlying	8/5/2016	164.23	
MO-113	MU1 Overlying	8/19/2016	164.63	

Attachment 3: Groundwater Level Measurement Data
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Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
MO-113	MU1 Overlying	9/3/2016	165.29	
MO-113	MU1 Overlying	9/27/2016	165.03	
MO-LC0254	MU1 Overlying	7/8/2016	172.73	
MO-LC0254	MU1 Overlying	7/22/2016	170.69	
MO-LC0254	MU1 Overlying	8/5/2016	169.91	
MO-LC0254	MU1 Overlying	8/19/2016	170.06	
MO-LC0254	MU1 Overlying	9/3/2016	168.51	
MO-LC0254	MU1 Overlying	9/27/2016	169.32	
MU-101	MU1 Underlying	7/7/2016	192.42	
MU-101	MU1 Underlying	7/21/2016	191.00	
MU-101	MU1 Underlying	8/4/2016	190.87	
MU-101	MU1 Underlying	8/18/2016	191.90	
MU-101	MU1 Underlying	9/3/2016	190.40	
MU-101	MU1 Underlying	9/26/2016	189.98	
MU-102	MU1 Underlying	7/7/2016	195.49	
MU-102	MU1 Underlying	7/21/2016	192.60	
MU-102	MU1 Underlying	8/4/2016	192.10	
MU-102	MU1 Underlying	8/18/2016	192.23	
MU-102	MU1 Underlying	9/3/2016	192.36	
MU-102	MU1 Underlying	9/26/2016	191.42	
MU-103	MU1 Underlying	7/7/2016	191.45	
MU-103	MU1 Underlying	7/21/2016	189.20	
MU-103	MU1 Underlying	8/4/2016	189.12	
MU-103	MU1 Underlying	8/18/2016	187.70	
MU-103	MU1 Underlying	9/3/2016	189.52	
MU-103	MU1 Underlying	9/26/2016	187.09	
MU-104B	MU1 Underlying	7/7/2016	199.77	
MU-104B	MU1 Underlying	7/21/2016	197.61	
MU-104B	MU1 Underlying	8/4/2016	197.77	
MU-104B	MU1 Underlying	8/18/2016	194.73	
MU-104B	MU1 Underlying	9/3/2016	196.26	
MU-104B	MU1 Underlying	9/26/2016	195.91	
MU-105	MU1 Underlying	7/7/2016	204.35	
MU-105	MU1 Underlying	7/22/2016	204.33	
MU-105	MU1 Underlying	8/4/2016	204.00	
MU-105	MU1 Underlying	8/18/2016	203.85	
MU-105	MU1 Underlying	9/3/2016	205.26	
MU-105	MU1 Underlying	9/26/2016	209.18	
MU-106	MU1 Underlying	7/8/2016	199.36	
MU-106	MU1 Underlying	7/22/2016	198.73	
MU-106	MU1 Underlying	8/4/2016	198.30	
MU-106	MU1 Underlying	8/18/2016	198.03	
MU-106	MU1 Underlying	9/3/2016	198.62	
MU-106	MU1 Underlying	9/26/2016	203.50	
MU-107	MU1 Underlying	7/8/2016	198.32	
MU-107	MU1 Underlying	7/22/2016	197.63	
MU-107	MU1 Underlying	8/4/2016	198.03	
MU-107	MU1 Underlying	8/18/2016	198.61	
MU-107	MU1 Underlying	9/3/2016	198.99	

Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2016
Lost Creek ISR Project PT788

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
MU-107	MU1 Underlying	9/26/2016	203.31	
KPW-2	MU1 Underlying	7/8/2016	199.86	
KPW-2	MU1 Underlying	7/22/2016	197.81	
KPW-2	MU1 Underlying	8/4/2016	198.80	
KPW-2	MU1 Underlying	8/18/2016	199.21	
KPW-2	MU1 Underlying	9/3/2016	201.52	
KPW-2	MU1 Underlying	9/27/2016	200.00	
MU-109	MU1 Underlying	7/8/2016	205.26	
MU-109	MU1 Underlying	7/22/2016	204.98	
MU-109	MU1 Underlying	8/4/2016	202.90	
MU-109	MU1 Underlying	8/19/2016	203.12	
MU-109	MU1 Underlying	9/3/2016	203.79	
MU-109	MU1 Underlying	9/27/2016	202.91	
MU-110	MU1 Underlying	7/8/2016	203.04	
MU-110	MU1 Underlying	7/22/2016	202.91	
MU-110	MU1 Underlying	8/4/2016	205.43	
MU-110	MU1 Underlying	8/19/2016	205.21	
MU-110	MU1 Underlying	9/3/2016	204.98	
MU-110	MU1 Underlying	9/27/2016	206.28	
MU-111	MU1 Underlying	7/8/2016	204.12	
MU-111	MU1 Underlying	7/22/2016	203.74	
MU-111	MU1 Underlying	8/5/2016	203.63	
MU-111	MU1 Underlying	8/19/2016	202.94	
MU-111	MU1 Underlying	9/3/2016	203.16	
MU-111	MU1 Underlying	9/27/2016	204.85	
MU-112	MU1 Underlying	7/8/2016	204.83	
MU-112	MU1 Underlying	7/22/2016	202.96	
MU-112	MU1 Underlying	8/5/2016	203.41	
MU-112	MU1 Underlying	8/19/2016	203.71	
MU-112	MU1 Underlying	9/3/2016	204.06	
MU-112	MU1 Underlying	9/27/2016	205.78	
MU-113	MU1 Underlying	7/8/2016	193.86	
MU-113	MU1 Underlying	7/22/2016	193.22	
MU-113	MU1 Underlying	8/5/2016	192.98	
MU-113	MU1 Underlying	8/19/2016	193.41	
MU-113	MU1 Underlying	9/3/2016	193.62	
MU-113	MU1 Underlying	9/27/2016	187.90	
TW1-1	MU1 Trend	7/8/2016	182.64	
TW1-1	MU1 Trend	7/22/2016	181.31	
TW1-1	MU1 Trend	8/5/2016	181.46	
TW1-1	MU1 Trend	8/19/2016	182.36	
TW1-1	MU1 Trend	9/3/2016	182.69	
TW1-1	MU1 Trend	9/27/2016	182.93	
OW1-1	MU1 Observation	7/8/2016	192.67	
OW1-1	MU1 Observation	7/22/2016	190.45	
OW1-1	MU1 Observation	8/5/2016	190.29	
OW1-1	MU1 Observation	8/19/2016	190.73	
OW1-1	MU1 Observation	9/3/2016	193.41	
OW1-1	MU1 Observation	9/27/2016	195.41	

Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2016
Lost Creek ISR Project PT788

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
LC15M	Regional FG	10/6/2016	163.77	
LC16M	Regional HJ	10/6/2016	135.19	
LC17M	Regional KM	10/6/2016	188.30	
LC18M	Regional FG	10/6/2016	173.03	
LC19M	Regional HJ	10/6/2016	222.49	
LC20M	Regional KM	10/6/2016	201.72	
LC21M	Regional FG	10/6/2016	199.18	
LC22MA	Regional HJ	10/6/2016	210.00	
LC23M	Regional KM	10/6/2016	223.20	
LC24M	Regional KM	10/6/2016	194.79	
LC25MA	Regional FG	10/6/2016	172.03	
LC26M	Regional HJ	10/6/2016	174.27	
LC27M	Regional KM	10/6/2016	192.00	
LC28M	Regional KM	10/6/2016	155.97	
LC29M	Regional DE	10/6/2016	158.10	Insufficient water for sampling
LC30M	Regional DE	10/6/2016	199.98	
LC31M	Regional DE	10/6/2016	144.80	
MB-01	Regional DE	10/6/2016	239.13	
MB-02	Regional FG	10/6/2016	243.26	
MB-03B	Regional HJ	10/6/2016	268.00	
MB-04	Regional KM	10/6/2016	278.00	
MB-05	Regional FG	10/6/2016	144.85	
MB-06	Regional HJ	10/6/2016	143.40	
MB-07	Regional DE	10/6/2016	122.90	
MB-08	Regional FG	10/6/2016	172.96	
MB-09	Regional HJ	10/6/2016	184.08	
MB-10	Regional DE	10/6/2016	171.40	Insufficient water for sampling

ft-bmp: feet below measuring point

MU1: Mine Unit 1

Attachment 4: MU1 Water Quality Data
3rd Quarter 2016
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 [†]	% Diff	Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	
M-101	MU1 Ring	7/7/2016	--	116	186.2	-38	5.4	20.5	-74	651	1012.4	-36	
M-101	MU1 Ring	7/19/2016	12	119	186.2	-36	5.4	20.5	-74	668	1012.4	-34	
M-101	MU1 Ring	8/3/2016	15	117	186.2	-37	6.6	20.5	-68	664	1012.4	-34	
M-101	MU1 Ring	8/17/2016	14	117	186.2	-37	5.8	20.5	-72	671	1012.4	-34	
M-101	MU1 Ring	9/2/2016	16	117	186.2	-37	5.7	20.5	-72	679	1012.4	-33	
M-101	MU1 Ring	9/23/2016	21	114	186.2	-39	6.0	20.5	-71	663	1012.4	-35	
M-102	MU1 Ring	7/7/2016	--	139	186.2	-25	5.7	20.5	-72	803	1012.4	-21	
M-102	MU1 Ring	7/21/2016	14	131	186.2	-30	6.2	20.5	-70	800	1012.4	-21	
M-102	MU1 Ring	8/3/2016	13	134	186.2	-28	6.0	20.5	-71	789	1012.4	-22	
M-102	MU1 Ring	8/17/2016	14	139	186.2	-25	6.2	20.5	-70	796	1012.4	-21	
M-102	MU1 Ring	9/2/2016	16	139	186.2	-25	5.4	20.5	-74	805	1012.4	-20	
M-102	MU1 Ring	9/23/2016	21	138	186.2	-26	6.5	20.5	-68	806	1012.4	-20	
M-103A	MU1 Ring	7/7/2016	--	141	186.2	-24	6.8	20.5	-67	832	1012.4	-18	
M-103A	MU1 Ring	7/21/2016	14	139	186.2	-25	6.3	20.5	-69	821	1012.4	-19	
M-103A	MU1 Ring	8/3/2016	13	140	186.2	-25	5.7	20.5	-72	811	1012.4	-20	
M-103A	MU1 Ring	8/17/2016	14	137	186.2	-26	6.0	20.5	-71	811	1012.4	-20	
M-103A	MU1 Ring	9/2/2016	16	133	186.2	-29	6.1	20.5	-70	816	1012.4	-19	
M-103A	MU1 Ring	9/23/2016	21	135	186.2	-28	6.6	20.5	-68	801	1012.4	-21	
M-104	MU1 Ring	7/7/2016	--	128	186.2	-31	6.5	20.5	-68	733	1012.4	-28	
M-104	MU1 Ring	7/21/2016	14	127	186.2	-32	5.8	20.5	-72	720	1012.4	-29	
M-104	MU1 Ring	8/3/2016	13	121	186.2	-35	5.7	20.5	-72	687	1012.4	-32	
M-104	MU1 Ring	8/17/2016	14	131	186.2	-30	5.8	20.5	-72	764	1012.4	-25	
M-104	MU1 Ring	9/2/2016	16	141	186.2	-24	7.2	20.5	-65	820	1012.4	-19	
M-104	MU1 Ring	9/23/2016	21	138	186.2	-26	6.3	20.5	-69	818	1012.4	-19	
M-105	MU1 Ring	7/7/2016	--	126	186.2	-32	5.4	20.5	-74	632	1012.4	-38	
M-105	MU1 Ring	7/21/2016	14	124	186.2	-33	5.7	20.5	-72	694	1012.4	-31	
M-105	MU1 Ring	8/3/2016	13	133	186.2	-29	6.6	20.5	-68	739	1012.4	-27	
M-105	MU1 Ring	8/17/2016	14	140	186.2	-25	6.6	20.5	-68	796	1012.4	-21	
M-105	MU1 Ring	9/2/2016	16	140	186.2	-25	6.0	20.5	-71	794	1012.4	-22	
M-105	MU1 Ring	9/23/2016	21	137	186.2	-27	5.9	20.5	-71	791	1012.4	-22	
M-106	MU1 Ring	7/7/2016	--	117	186.2	-37	5.5	20.5	-73	613	1012.4	-39	
M-106	MU1 Ring	7/21/2016	14	139	186.2	-25	6.1	20.5	-70	617	1012.4	-39	
M-106	MU1 Ring	8/3/2016	13	120	186.2	-36	5.6	20.5	-73	632	1012.4	-38	
M-106	MU1 Ring	8/17/2016	14	124	186.2	-33	5.9	20.5	-71	666	1012.4	-34	
M-106	MU1 Ring	9/2/2016	16	119	186.2	-36	5.1	20.5	-75	658	1012.4	-35	
M-106	MU1 Ring	9/23/2016	21	120	186.2	-36	5.9	20.5	-71	652	1012.4	-36	
M-107	MU1 Ring	7/7/2016	--	127	186.2	-32	6.9	20.5	-66	685	1012.4	-32	
M-107	MU1 Ring	7/21/2016	14	119	186.2	-36	6.5	20.5	-69	688	1012.4	-32	
M-107	MU1 Ring	8/3/2016	13	122	186.2	-34	5.6	20.5	-73	686	1012.4	-32	
M-107	MU1 Ring	8/17/2016	14	122	186.2	-34	6.3	20.5	-69	682	1012.4	-33	
M-107	MU1 Ring	9/2/2016	16	124	186.2	-33	5.8	20.5	-72	682	1012.4	-33	
M-107	MU1 Ring	9/23/2016	21	120	186.2	-36	6.5	20.5	-68	680	1012.4	-33	
M-108	MU1 Ring	7/7/2016	--	107	186.2	-43	6.2	20.5	-70	554	1012.4	-45	
M-108	MU1 Ring	7/21/2016	14	111	186.2	-40	5.6	20.5	-73	554	1012.4	-45	
M-108	MU1 Ring	8/3/2016	13	109	186.2	-41	5.6	20.5	-72	552	1012.4	-45	
M-108	MU1 Ring	8/17/2016	14	107	186.2	-43	5.5	20.5	-73	554	1012.4	-45	
M-108	MU1 Ring	9/2/2016	16	106	186.2	-43	6.4	20.5	-69	556	1012.4	-45	
M-108	MU1 Ring	9/23/2016	21	105	186.2	-44	6.1	20.5	-70	553	1012.4	-45	
M-109	MU1 Ring	7/7/2016	--	108	186.2	-42	5.7	20.5	-72	559	1012.4	-45	
M-109	MU1 Ring	7/21/2016	14	103	186.2	-45	5.4	20.5	-74	553	1012.4	-45	
M-109	MU1 Ring	8/3/2016	13	108	186.2	-42	6.2	20.5	-70	552	1012.4	-45	
M-109	MU1 Ring	8/17/2016	14	109	186.2	-41	5.6	20.5	-73	561	1012.4	-45	
M-109	MU1 Ring	9/2/2016	16	106	186.2	-43	6.0	20.5	-71	554	1012.4	-45	
M-109	MU1 Ring	9/23/2016	21	106	186.2	-43	5.5	20.5	-73	550	1012.4	-46	
M-110	MU1 Ring	7/7/2016	--	115	186.2	-38	6.9	20.5	-67	575	1012.4	-43	
M-110	MU1 Ring	7/21/2016	14	110	186.2	-41	7.0	20.5	-66	546	1012.4	-46	
M-110	MU1 Ring	8/3/2016	13	109	186.2	-41	6.6	20.5	-68	566	1012.4	-44	
M-110	MU1 Ring	8/18/2016	15	112	186.2	-40	7.5	20.5	-63	585	1012.4	-42	
M-110	MU1 Ring	9/2/2016	15	114	186.2	-39	6.5	20.5	-68	584	1012.4	-42	
M-110	MU1 Ring	9/23/2016	21	110	186.2	-41	7.0	20.5	-66	582	1012.4	-43	
M-111	MU1 Ring	7/7/2016	--	129	186.2	-31	6.0	20.5	-71	559	1012.4	-45	
M-111	MU1 Ring	7/21/2016	14	116	186.2	-38	6.2	20.5	-70	557	1012.4	-45	
M-111	MU1 Ring	8/3/2016	13	112	186.2	-40	5.2	20.5	-75	550	1012.4	-46	

Attachment 4: MU1 Water Quality Data
3rd Quarter 2016
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 [†]	% Diff	Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	
M-111	MU1 Ring	8/18/2016	15	136	186.2	-27	5.7	20.5	-72	562	1012.4	-44	
M-111	MU1 Ring	9/2/2016	15	112	186.2	-40	5.1	20.5	-75	559	1012.4	-45	
M-111	MU1 Ring	9/23/2016	21	103	186.2	-45	5.9	20.5	-71	555	1012.4	-45	
M-112	MU1 Ring	7/7/2016	--	112	186.2	-40	5.6	20.5	-73	552	1012.4	-45	
M-112	MU1 Ring	7/21/2016	14	107	186.2	-43	5.3	20.5	-74	548	1012.4	-46	
M-112	MU1 Ring	8/3/2016	13	112	186.2	-40	5.8	20.5	-72	547	1012.4	-46	
M-112	MU1 Ring	8/18/2016	15	109	186.2	-41	5.3	20.5	-74	554	1012.4	-45	
M-112	MU1 Ring	9/2/2016	15	109	186.2	-42	6.0	20.5	-71	552	1012.4	-45	
M-112	MU1 Ring	9/23/2016	21	106	186.2	-43	6.2	20.5	-70	550	1012.4	-46	
M-113	MU1 Ring	7/6/2016	--	104	186.2	-44	5.1	20.5	-75	515	1012.4	-49	
M-113	MU1 Ring	7/19/2016	13	103	186.2	-45	5.0	20.5	-76	517	1012.4	-49	
M-113	MU1 Ring	8/2/2016	14	117	186.2	-37	5.8	20.5	-72	517	1012.4	-49	
M-113	MU1 Ring	8/16/2016	14	104	186.2	-44	5.0	20.5	-76	517	1012.4	-49	
M-113	MU1 Ring	9/1/2016	16	104	186.2	-44	5.6	20.5	-73	519	1012.4	-49	
M-113	MU1 Ring	9/21/2016	20	97	186.2	-48	6.6	20.5	-68	523	1012.4	-48	
M-114A	MU1 Ring	7/6/2016	--	111	186.2	-40	5.2	20.5	-75	523	1012.4	-48	
M-114A	MU1 Ring	7/19/2016	13	109	186.2	-41	5.9	20.5	-71	524	1012.4	-48	
M-114A	MU1 Ring	8/2/2016	14	108	186.2	-42	5.2	20.5	-75	529	1012.4	-48	
M-114A	MU1 Ring	8/16/2016	14	108	186.2	-42	5.6	20.5	-73	523	1012.4	-48	
M-114A	MU1 Ring	9/1/2016	16	108	186.2	-42	4.7	20.5	-77	521	1012.4	-49	
M-114A	MU1 Ring	9/21/2016	20	98	186.2	-47	5.2	20.5	-75	525	1012.4	-48	
M-115A	MU1 Ring	7/6/2016	--	106	186.2	-43	5.6	20.5	-73	484	1012.4	-52	
M-115A	MU1 Ring	7/19/2016	13	103	186.2	-45	5.9	20.5	-71	485	1012.4	-52	
M-115A	MU1 Ring	8/2/2016	14	103	186.2	-45	4.7	20.5	-77	488	1012.4	-52	
M-115A	MU1 Ring	8/16/2016	14	102	186.2	-45	5.2	20.5	-75	484	1012.4	-52	
M-115A	MU1 Ring	9/1/2016	16	103	186.2	-45	4.6	20.5	-77	486	1012.4	-52	
M-115A	MU1 Ring	9/21/2016	20	95	186.2	-49	5.2	20.5	-75	487	1012.4	-52	
M-116A	MU1 Ring	7/6/2016	--	105	186.2	-44	5.4	20.5	-74	496	1012.4	-51	
M-116A	MU1 Ring	7/19/2016	13	102	186.2	-45	4.8	20.5	-77	496	1012.4	-51	
M-116A	MU1 Ring	8/2/2016	14	102	186.2	-45	5.3	20.5	-74	497	1012.4	-51	
M-116A	MU1 Ring	8/16/2016	14	104	186.2	-44	4.8	20.5	-77	494	1012.4	-51	
M-116A	MU1 Ring	9/1/2016	16	104	186.2	-44	5.9	20.5	-71	496	1012.4	-51	
M-116A	MU1 Ring	9/21/2016	20	100	186.2	-46	5.4	20.5	-74	493	1012.4	-51	
M-117	MU1 Ring	7/6/2016	--	109	186.2	-41	4.1	20.5	-80	484	1012.4	-52	
M-117	MU1 Ring	7/19/2016	13	105	186.2	-44	4.9	20.5	-76	488	1012.4	-52	
M-117	MU1 Ring	8/2/2016	14	103	186.2	-45	5.6	20.5	-72	495	1012.4	-51	
M-117	MU1 Ring	8/16/2016	14	105	186.2	-44	4.9	20.5	-76	493	1012.4	-51	
M-117	MU1 Ring	9/1/2016	16	106	186.2	-43	5.3	20.5	-74	490	1012.4	-52	
M-117	MU1 Ring	9/21/2016	20	103	186.2	-45	5.9	20.5	-71	494	1012.4	-51	
M-118	MU1 Ring	7/6/2016	--	108	186.2	-42	5.3	20.5	-74	498	1012.4	-51	
M-118	MU1 Ring	7/19/2016	13	102	186.2	-45	5.7	20.5	-72	503	1012.4	-50	
M-118	MU1 Ring	8/2/2016	14	102	186.2	-45	6.2	20.5	-70	507	1012.4	-50	
M-118	MU1 Ring	8/16/2016	14	104	186.2	-44	5.7	20.5	-72	498	1012.4	-51	
M-118	MU1 Ring	9/1/2016	16	107	186.2	-42	4.7	20.5	-77	498	1012.4	-51	
M-118	MU1 Ring	9/21/2016	20	111	186.2	-40	5.3	20.5	-74	503	1012.4	-50	
M-119	MU1 Ring	7/6/2016	--	113	186.2	-39	6.3	20.5	-69	475	1012.4	-53	
M-119	MU1 Ring	7/19/2016	13	110	186.2	-41	5.7	20.5	-72	474	1012.4	-53	
M-119	MU1 Ring	8/2/2016	14	111	186.2	-40	5.2	20.5	-74	473	1012.4	-53	
M-119	MU1 Ring	8/16/2016	14	112	186.2	-40	5.7	20.5	-72	471	1012.4	-53	
M-119	MU1 Ring	9/1/2016	16	111	186.2	-40	5.2	20.5	-75	472	1012.4	-53	
M-119	MU1 Ring	9/21/2016	20	109	186.2	-41	5.5	20.5	-73	471	1012.4	-53	
M-120A	MU1 Ring	7/6/2016	--	113	186.2	-39	5.7	20.5	-72	471	1012.4	-53	
M-120A	MU1 Ring	7/19/2016	13	110	186.2	-41	5.3	20.5	-74	470	1012.4	-54	
M-120A	MU1 Ring	8/2/2016	14	108	186.2	-42	5.9	20.5	-71	473	1012.4	-53	
M-120A	MU1 Ring	8/17/2016	15	113	186.2	-39	4.9	20.5	-76	472	1012.4	-53	
M-120A	MU1 Ring	9/1/2016	15	112	186.2	-40	6.3	20.5	-69	474	1012.4	-53	
M-120A	MU1 Ring	9/21/2016	20	104	186.2	-44	5.4	20.5	-74	474	1012.4	-53	
M-121	MU1 Ring	7/6/2016	--	108	186.2	-42	5.5	20.5	-73	503	1012.4	-50	
M-121	MU1 Ring	7/19/2016	13	109	186.2	-41	5.3	20.5	-74	505	1012.4	-50	
M-121	MU1 Ring	8/2/2016	14	115	186.2	-38	5.8	20.5	-72	512	1012.4	-49	
M-121	MU1 Ring	8/17/2016	15	111	186.2	-40	4.9	20.5	-76	507	1012.4	-50	
M-121	MU1 Ring	9/1/2016	15	111	186.2	-41	5.4	20.5	-73	511	1012.4	-50	
M-121	MU1 Ring	9/21/2016	20	110	186.2	-41	6.0	20.5	-71	513	1012.4	-49	

Attachment 4: MU1 Water Quality Data
3rd Quarter 2016
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 [†]	% Diff	Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	
M-122	MU1 Ring	7/6/2016	--	116	186.2	-38	6.0	20.5	-71	500	1012.4	-51	
M-122	MU1 Ring	7/19/2016	13	115	186.2	-38	4.4	20.5	-79	503	1012.4	-50	
M-122	MU1 Ring	8/2/2016	14	110	186.2	-41	5.3	20.5	-74	507	1012.4	-50	
M-122	MU1 Ring	8/17/2016	15	116	186.2	-38	5.3	20.5	-74	502	1012.4	-50	
M-122	MU1 Ring	9/1/2016	15	115	186.2	-38	5.6	20.5	-72	499	1012.4	-51	
M-122	MU1 Ring	9/21/2016	20	111	186.2	-41	5.9	20.5	-71	507	1012.4	-50	
M-123	MU1 Ring	7/6/2016	--	116	186.2	-38	5.3	20.5	-74	493	1012.4	-51	
M-123	MU1 Ring	7/19/2016	13	112	186.2	-40	6.0	20.5	-71	495	1012.4	-51	
M-123	MU1 Ring	8/2/2016	14	119	186.2	-36	5.1	20.5	-75	496	1012.4	-51	
M-123	MU1 Ring	8/17/2016	15	113	186.2	-39	5.6	20.5	-73	494	1012.4	-51	
M-123	MU1 Ring	9/1/2016	15	112	186.2	-40	5.2	20.5	-75	501	1012.4	-51	
M-123	MU1 Ring	9/23/2016	22	111	186.2	-41	5.4	20.5	-73	498	1012.4	-51	
M-124	MU1 Ring	7/6/2016	--	111	186.2	-40	4.6	20.5	-78	463	1012.4	-54	
M-124	MU1 Ring	7/19/2016	13	110	186.2	-41	5.1	20.5	-75	468	1012.4	-54	
M-124	MU1 Ring	8/2/2016	14	108	186.2	-42	4.9	20.5	-76	471	1012.4	-53	
M-124	MU1 Ring	8/17/2016	15	115	186.2	-38	4.8	20.5	-76	464	1012.4	-54	
M-124	MU1 Ring	9/1/2016	15	112	186.2	-40	4.6	20.5	-78	467	1012.4	-54	
M-124	MU1 Ring	9/23/2016	22	110	186.2	-41	4.8	20.5	-77	466	1012.4	-54	
M-125	MU1 Ring	7/6/2016	--	114	186.2	-39	6.3	20.5	-70	547	1012.4	-46	
M-125	MU1 Ring	7/19/2016	13	112	186.2	-40	5.7	20.5	-72	548	1012.4	-46	
M-125	MU1 Ring	8/2/2016	14	109	186.2	-41	6.1	20.5	-70	547	1012.4	-46	
M-125	MU1 Ring	8/17/2016	15	109	186.2	-41	5.6	20.5	-72	546	1012.4	-46	
M-125	MU1 Ring	9/1/2016	15	110	186.2	-41	6.7	20.5	-67	547	1012.4	-46	
M-125	MU1 Ring	9/23/2016	22	112	186.2	-40	7.0	20.5	-66	543	1012.4	-46	
M-126	MU1 Ring	7/6/2016	--	114	186.2	-39	6.7	20.5	-67	535	1012.4	-47	
M-126	MU1 Ring	7/19/2016	13	123	186.2	-34	6.5	20.5	-68	542	1012.4	-46	
M-126	MU1 Ring	8/2/2016	14	109	186.2	-41	6.3	20.5	-69	530	1012.4	-48	
M-126	MU1 Ring	8/17/2016	15	122	186.2	-34	5.6	20.5	-73	527	1012.4	-48	
M-126	MU1 Ring	9/1/2016	15	109	186.2	-41	6.2	20.5	-70	536	1012.4	-47	
M-126	MU1 Ring	9/23/2016	22	109	186.2	-42	7.0	20.5	-66	541	1012.4	-47	
M-127	MU1 Ring	7/6/2016	--	116	186.2	-38	6.1	20.5	-70	534	1012.4	-47	
M-127	MU1 Ring	7/19/2016	13	112	186.2	-40	7.5	20.5	-64	544	1012.4	-46	
M-127	MU1 Ring	8/2/2016	14	107	186.2	-43	6.2	20.5	-70	539	1012.4	-47	
M-127	MU1 Ring	8/17/2016	15	109	186.2	-41	6.7	20.5	-67	547	1012.4	-46	
M-127	MU1 Ring	9/1/2016	15	115	186.2	-38	5.6	20.5	-73	557	1012.4	-45	
M-127	MU1 Ring	9/23/2016	22	118	186.2	-37	6.0	20.5	-71	553	1012.4	-45	
M-128	MU1 Ring	7/6/2016	--	112	186.2	-40	4.5	20.5	-78	554	1012.4	-45	
M-128	MU1 Ring	7/19/2016	13	109	186.2	-41	6.5	20.5	-68	568	1012.4	-44	
M-128	MU1 Ring	8/3/2016	15	114	186.2	-39	5.6	20.5	-73	571	1012.4	-44	
M-128	MU1 Ring	8/17/2016	14	115	186.2	-38	5.9	20.5	-71	566	1012.4	-44	
M-128	MU1 Ring	9/1/2016	15	111	186.2	-41	5.4	20.5	-74	573	1012.4	-43	
M-128	MU1 Ring	9/23/2016	22	112	186.2	-40	5.7	20.5	-72	570	1012.4	-44	
MO-101	MU1 Overlying	7/7/2016	--	115	182.1	-37	7.0	21.4	-67	642	921.7	-30	
MO-101	MU1 Overlying	7/21/2016	14	105	182.1	-42	7.5	21.4	-65	645	921.7	-30	
MO-101	MU1 Overlying	8/4/2016	14	109	182.1	-40	7.1	21.4	-67	649	921.7	-30	
MO-101	MU1 Overlying	8/18/2016	14	109	182.1	-40	6.9	21.4	-68	645	921.7	-30	
MO-101	MU1 Overlying	9/3/2016	16	107	182.1	-41	8.5	21.4	-60	647	921.7	-30	
MO-101	MU1 Overlying	9/26/2016	23	109	182.1	-40	8.4	21.4	-61	640	921.7	-31	
MO-102	MU1 Overlying	7/7/2016	--	115	182.1	-37	7.2	21.4	-66	579	921.7	-37	
MO-102	MU1 Overlying	7/21/2016	14	102	182.1	-44	8.1	21.4	-62	585	921.7	-37	
MO-102	MU1 Overlying	8/4/2016	14	98	182.1	-46	7.4	21.4	-65	589	921.7	-36	
MO-102	MU1 Overlying	8/18/2016	14	117	182.1	-36	6.1	21.4	-71	583	921.7	-37	
MO-102	MU1 Overlying	9/3/2016	16	105	182.1	-42	6.7	21.4	-69	587	921.7	-36	
MO-102	MU1 Overlying	9/26/2016	23	104	182.1	-43	7.7	21.4	-64	591	921.7	-36	
MO-103	MU1 Overlying	7/7/2016	--	118	182.1	-35	9.4	21.4	-56	679	921.7	-26	
MO-103	MU1 Overlying	7/21/2016	14	111	182.1	-39	9.9	21.4	-54	676	921.7	-27	
MO-103	MU1 Overlying	8/4/2016	14	114	182.1	-37	8.8	21.4	-59	681	921.7	-26	
MO-103	MU1 Overlying	8/18/2016	14	117	182.1	-36	9.5	21.4	-56	682	921.7	-26	
MO-103	MU1 Overlying	9/3/2016	16	112	182.1	-38	8.6	21.4	-60	716	921.7	-22	
MO-103	MU1 Overlying	9/26/2016	23	110	182.1	-40	8.8	21.4	-59	700	921.7	-24	
MO-104	MU1 Overlying	7/7/2016	--	118	182.1	-35	8.6	21.4	-60	611	921.7	-34	
MO-104	MU1 Overlying	7/21/2016	14	114	182.1	-37	8.9	21.4	-58	610	921.7	-34	
MO-104	MU1 Overlying	8/4/2016	14	116	182.1	-36	8.0	21.4	-63	607	921.7	-34	

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3rd Quarter 2016
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 [†]	% Diff	Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	
MO-104	MU1 Overlying	8/18/2016	14	114	182.1	-37	8.6	21.4	-60	608	921.7	-34	
MO-104	MU1 Overlying	9/3/2016	16	137	182.1	-25	9.0	21.4	-58	609	921.7	-34	
MO-104	MU1 Overlying	9/26/2016	23	117	182.1	-36	7.8	21.4	-63	602	921.7	-35	
MO-105	MU1 Overlying	7/7/2016	--	105	182.1	-42	5.3	21.4	-75	482	921.7	-48	
MO-105	MU1 Overlying	7/22/2016	15	106	182.1	-42	5.1	21.4	-76	481	921.7	-48	
MO-105	MU1 Overlying	8/4/2016	13	102	182.1	-44	5.0	21.4	-77	482	921.7	-48	
MO-105	MU1 Overlying	8/18/2016	14	104	182.1	-43	5.0	21.4	-77	479	921.7	-48	
MO-105	MU1 Overlying	9/3/2016	16	102	182.1	-44	5.6	21.4	-74	479	921.7	-48	
MO-105	MU1 Overlying	9/26/2016	23	103	182.1	-43	5.6	21.4	-74	479	921.7	-48	
MO-106	MU1 Overlying	7/8/2016	--	106	182.1	-42	6.5	21.4	-70	466	921.7	-49	
MO-106	MU1 Overlying	7/22/2016	14	100	182.1	-45	5.8	21.4	-73	469	921.7	-49	
MO-106	MU1 Overlying	8/4/2016	13	105	182.1	-42	6.3	21.4	-70	472	921.7	-49	
MO-106	MU1 Overlying	8/18/2016	14	105	182.1	-42	5.7	21.4	-73	472	921.7	-49	
MO-106	MU1 Overlying	9/3/2016	16	101	182.1	-45	5.7	21.4	-73	469	921.7	-49	
MO-106	MU1 Overlying	9/26/2016	23	98	182.1	-46	6.8	21.4	-68	472	921.7	-49	
MO-107	MU1 Overlying	7/8/2016	--	103	182.1	-43	5.8	21.4	-73	462	921.7	-50	
MO-107	MU1 Overlying	7/22/2016	14	100	182.1	-45	5.9	21.4	-72	469	921.7	-49	
MO-107	MU1 Overlying	8/4/2016	13	118	182.1	-35	5.9	21.4	-73	469	921.7	-49	
MO-107	MU1 Overlying	8/18/2016	14	101	182.1	-45	6.0	21.4	-72	466	921.7	-49	
MO-107	MU1 Overlying	9/3/2016	16	104	182.1	-43	5.2	21.4	-76	466	921.7	-49	
MO-107	MU1 Overlying	9/26/2016	23	101	182.1	-44	6.3	21.4	-71	474	921.7	-49	
MO-108	MU1 Overlying	7/8/2016	--	103	182.1	-43	7.2	21.4	-67	506	921.7	-45	
MO-108	MU1 Overlying	7/22/2016	14	104	182.1	-43	9.1	21.4	-57	525	921.7	-43	
MO-108	MU1 Overlying	8/4/2016	13	107	182.1	-41	10.7	21.4	-50	547	921.7	-41	
MO-108	MU1 Overlying	8/18/2016	14	111	182.1	-39	11.4	21.4	-46	556	921.7	-40	
MO-108	MU1 Overlying	8/30/2016	12	114	182.1	-38	12.6	21.4	-41	551	921.7	-40	
MO-108	MU1 Overlying	9/3/2016	4	115	182.1	-37	13.8	21.4	-36	548	921.7	-41	
MO-108	MU1 Overlying	9/27/2016	--	136	182.1	-25	14.9	21.4	-30	589	921.7	-36	
MO-108	MU1 Overlying	9/29/2016	2	121	182.1	-34	18.3	21.4	-14	583	921.7	-37	
MO-109	MU1 Overlying	7/8/2016	--	116	182.1	-36	7.8	21.4	-63	514	921.7	-44	
MO-109	MU1 Overlying	7/22/2016	14	110	182.1	-40	7.1	21.4	-67	516	921.7	-44	
MO-109	MU1 Overlying	8/4/2016	13	112	182.1	-38	7.1	21.4	-67	522	921.7	-43	
MO-109	MU1 Overlying	8/19/2016	15	115	182.1	-37	7.6	21.4	-65	521	921.7	-43	
MO-109	MU1 Overlying	9/3/2016	--	111	182.1	-39	7.5	21.4	-65	522	921.7	-43	
MO-109	MU1 Overlying	9/27/2016	24	106	182.1	-42	7.9	21.4	-63	514	921.7	-44	
MO-110	MU1 Overlying	7/8/2016	--	98	182.1	-46	5.9	21.4	-73	432	921.7	-53	
MO-110	MU1 Overlying	7/22/2016	14	95	182.1	-48	5.3	21.4	-75	433	921.7	-53	
MO-110	MU1 Overlying	8/4/2016	13	97	182.1	-47	5.8	21.4	-73	438	921.7	-52	
MO-110	MU1 Overlying	8/19/2016	15	97	182.1	-47	5.5	21.4	-74	433	921.7	-53	
MO-110	MU1 Overlying	9/3/2016	--	96	182.1	-47	5.5	21.4	-74	440	921.7	-52	
MO-110	MU1 Overlying	9/27/2016	24	97	182.1	-47	6.1	21.4	-71	437	921.7	-53	
MO-111	MU1 Overlying	7/8/2016	--	101	182.1	-45	6.0	21.4	-72	427	921.7	-54	
MO-111	MU1 Overlying	7/22/2016	14	99	182.1	-46	6.1	21.4	-71	431	921.7	-53	
MO-111	MU1 Overlying	8/5/2016	14	99	182.1	-46	6.0	21.4	-72	432	921.7	-53	
MO-111	MU1 Overlying	8/19/2016	14	98	182.1	-46	6.1	21.4	-72	429	921.7	-53	
MO-111	MU1 Overlying	9/3/2016	--	100	182.1	-45	5.4	21.4	-75	431	921.7	-53	
MO-111	MU1 Overlying	9/27/2016	24	97	182.1	-47	5.9	21.4	-72	428	921.7	-54	
MO-112	MU1 Overlying	7/8/2016	--	108	182.1	-41	6.0	21.4	-72	418	921.7	-55	
MO-112	MU1 Overlying	7/22/2016	14	109	182.1	-40	6.1	21.4	-71	419	921.7	-55	
MO-112	MU1 Overlying	8/5/2016	14	109	182.1	-40	6.0	21.4	-72	424	921.7	-54	
MO-112	MU1 Overlying	8/19/2016	14	109	182.1	-40	6.0	21.4	-72	421	921.7	-54	
MO-112	MU1 Overlying	9/3/2016	15	110	182.1	-40	6.1	21.4	-72	425	921.7	-54	
MO-112	MU1 Overlying	9/27/2016	24	105	182.1	-43	5.8	21.4	-73	423	921.7	-54	
MO-113	MU1 Overlying	7/8/2016	--	102	182.1	-44	5.6	21.4	-74	446	921.7	-52	
MO-113	MU1 Overlying	7/22/2016	14	100	182.1	-45	6.0	21.4	-72	448	921.7	-51	
MO-113	MU1 Overlying	8/5/2016	14	107	182.1	-41	4.9	21.4	-77	453	921.7	-51	
MO-113	MU1 Overlying	8/19/2016	14	101	182.1	-45	5.1	21.4	-76	448	921.7	-51	
MO-113	MU1 Overlying	9/3/2016	15	102	182.1	-44	5.2	21.4	-76	452	921.7	-51	
MO-113	MU1 Overlying	9/27/2016	24	102	182.1	-44	5.6	21.4	-74	460	921.7	-50	
MU-101	MU1 Underlying	7/7/2016	--	117	206.0	-43	4.9	21.3	-77	547	658.9	-17	
MU-101	MU1 Underlying	7/21/2016	14	130	206.0	-37	5.5	21.3	-74	547	658.9	-17	
MU-101	MU1 Underlying	8/4/2016	14	114	206.0	-45	4.6	21.3	-78	532	658.9	-19	
MU-101	MU1 Underlying	8/18/2016	14	114	206.0	-45	4.6	21.3	-78	543	658.9	-18	

Attachment 4: MU1 Water Quality Data
3rd Quarter 2016
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Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	
MU-101	MU1 Underlying	9/3/2016	16	111	206.0	-46	10.5	21.3	-50	542	658.9	-18	
MU-101	MU1 Underlying	9/26/2016	23	108	206.0	-47	5.8	21.3	-73	544	658.9	-17	
MU-102	MU1 Underlying	7/7/2016	--	105	206.0	-49	5.1	21.3	-76	431	658.9	-35	
MU-102	MU1 Underlying	7/21/2016	14	102	206.0	-50	5.5	21.3	-74	428	658.9	-35	
MU-102	MU1 Underlying	8/4/2016	14	102	206.0	-50	5.2	21.3	-76	422	658.9	-36	
MU-102	MU1 Underlying	8/18/2016	14	104	206.0	-50	5.2	21.3	-76	428	658.9	-35	
MU-102	MU1 Underlying	9/3/2016	16	100	206.0	-51	7.1	21.3	-67	417	658.9	-37	
MU-102	MU1 Underlying	9/26/2016	23	106	206.0	-48	6.0	21.3	-72	446	658.9	-32	
MU-103	MU1 Underlying	7/7/2016	--	103	206.0	-50	5.9	21.3	-72	424	658.9	-36	
MU-103	MU1 Underlying	7/21/2016	14	102	206.0	-50	4.8	21.3	-77	421	658.9	-36	
MU-103	MU1 Underlying	8/4/2016	14	100	206.0	-51	5.2	21.3	-76	416	658.9	-37	
MU-103	MU1 Underlying	8/18/2016	14	101	206.0	-51	4.7	21.3	-78	422	658.9	-36	
MU-103	MU1 Underlying	9/3/2016	16	120	206.0	-42	5.4	21.3	-75	413	658.9	-37	
MU-103	MU1 Underlying	9/26/2016	23	101	206.0	-51	6.8	21.3	-68	437	658.9	-34	
MU-104B	MU1 Underlying	7/7/2016	--	97	206.0	-53	5.2	21.3	-76	413	658.9	-37	
MU-104B	MU1 Underlying	7/21/2016	14	85	206.0	-59	4.6	21.3	-78	403	658.9	-39	
MU-104B	MU1 Underlying	8/4/2016	14	88	206.0	-57	4.9	21.3	-77	402	658.9	-39	
MU-104B	MU1 Underlying	8/18/2016	14	96	206.0	-53	5.5	21.3	-74	428	658.9	-35	
MU-104B	MU1 Underlying	9/3/2016	16	96	206.0	-53	5.0	21.3	-76	424	658.9	-36	
MU-104B	MU1 Underlying	9/26/2016	23	96	206.0	-53	7.0	21.3	-67	445	658.9	-32	
MU-105	MU1 Underlying	7/7/2016	--	108	206.0	-48	4.6	21.3	-78	442	658.9	-33	
MU-105	MU1 Underlying	7/22/2016	15	106	206.0	-49	5.1	21.3	-76	442	658.9	-33	
MU-105	MU1 Underlying	8/4/2016	13	107	206.0	-48	4.7	21.3	-78	442	658.9	-33	
MU-105	MU1 Underlying	8/18/2016	14	108	206.0	-48	5.1	21.3	-76	443	658.9	-33	
MU-105	MU1 Underlying	9/3/2016	16	101	206.0	-51	5.3	21.3	-75	439	658.9	-33	
MU-105	MU1 Underlying	9/26/2016	23	104	206.0	-50	6.5	21.3	-70	456	658.9	-31	
MU-106	MU1 Underlying	7/8/2016	--	102	206.0	-50	5.6	21.3	-74	460	658.9	-30	
MU-106	MU1 Underlying	7/22/2016	14	101	206.0	-51	5.0	21.3	-77	459	658.9	-30	
MU-106	MU1 Underlying	8/4/2016	13	101	206.0	-51	6.0	21.3	-72	457	658.9	-31	
MU-106	MU1 Underlying	8/18/2016	14	102	206.0	-50	5.1	21.3	-76	462	658.9	-30	
MU-106	MU1 Underlying	9/3/2016	16	100	206.0	-51	5.2	21.3	-76	454	658.9	-31	
MU-106	MU1 Underlying	9/26/2016	23	102	206.0	-50	5.9	21.3	-72	462	658.9	-30	
MU-107	MU1 Underlying	7/8/2016	--	124	206.0	-40	5.7	21.3	-73	470	658.9	-29	
MU-107	MU1 Underlying	7/22/2016	14	101	206.0	-51	5.3	21.3	-75	468	658.9	-29	
MU-107	MU1 Underlying	8/4/2016	13	100	206.0	-51	5.4	21.3	-75	462	658.9	-30	
MU-107	MU1 Underlying	8/18/2016	14	101	206.0	-51	5.1	21.3	-76	464	658.9	-30	
MU-107	MU1 Underlying	9/3/2016	16	103	206.0	-50	4.8	21.3	-78	460	658.9	-30	
MU-107	MU1 Underlying	9/26/2016	23	100	206.0	-52	6.0	21.3	-72	474	658.9	-28	
KPW-2	MU1 Underlying	7/8/2016	--	105	206.0	-49	6.0	21.3	-72	494	658.9	-25	
KPW-2	MU1 Underlying	7/22/2016	14	104	206.0	-50	6.5	21.3	-70	494	658.9	-25	
KPW-2	MU1 Underlying	8/4/2016	13	131	206.0	-36	6.8	21.3	-68	514	658.9	-22	
KPW-2	MU1 Underlying	8/18/2016	14	128	206.0	-38	6.7	21.3	-69	496	658.9	-25	
KPW-2	MU1 Underlying	9/3/2016	16	105	206.0	-49	6.1	21.3	-71	484	658.9	-27	
KPW-2	MU1 Underlying	9/27/2016	24	105	206.0	-49	8.2	21.3	-62	500	658.9	-24	
MU-109	MU1 Underlying	7/8/2016	--	115	206.0	-44	9.3	21.3	-56	517	658.9	-22	
MU-109	MU1 Underlying	7/22/2016	14	113	206.0	-45	8.6	21.3	-59	505	658.9	-23	
MU-109	MU1 Underlying	8/4/2016	13	110	206.0	-47	8.7	21.3	-59	498	658.9	-24	
MU-109	MU1 Underlying	8/19/2016	15	113	206.0	-45	8.7	21.3	-59	508	658.9	-23	
MU-109	MU1 Underlying	9/3/2016	15	112	206.0	-46	10.4	21.3	-51	514	658.9	-22	
MU-109	MU1 Underlying	9/27/2016	24	119	206.0	-42	12.6	21.3	-41	532	658.9	-19	
MU-110	MU1 Underlying	7/8/2016	--	95	206.0	-54	7.8	21.3	-63	466	658.9	-29	
MU-110	MU1 Underlying	7/22/2016	14	91	206.0	-56	6.5	21.3	-70	465	658.9	-29	
MU-110	MU1 Underlying	8/4/2016	13	93	206.0	-55	6.8	21.3	-68	457	658.9	-31	
MU-110	MU1 Underlying	8/19/2016	15	94	206.0	-54	6.1	21.3	-71	463	658.9	-30	
MU-110	MU1 Underlying	9/3/2016	15	91	206.0	-56	6.3	21.3	-70	453	658.9	-31	
MU-110	MU1 Underlying	9/27/2016	24	90	206.0	-56	9.1	21.3	-57	469	658.9	-29	
MU-111	MU1 Underlying	7/8/2016	--	98	206.0	-52	6.3	21.3	-70	507	658.9	-23	
MU-111	MU1 Underlying	7/22/2016	14	95	206.0	-54	5.6	21.3	-74	509	658.9	-23	
MU-111	MU1 Underlying	8/5/2016	14	97	206.0	-53	5.3	21.3	-75	504	658.9	-24	
MU-111	MU1 Underlying	8/19/2016	14	98	206.0	-52	5.5	21.3	-74	507	658.9	-23	
MU-111	MU1 Underlying	9/3/2016	15	97	206.0	-53	4.9	21.3	-77	499	658.9	-24	
MU-111	MU1 Underlying	9/27/2016	24	93	206.0	-55	6.5	21.3	-69	509	658.9	-23	
MU-112	MU1 Underlying	7/8/2016	--	98	206.0	-52	5.0	21.3	-76	444	658.9	-33	

Attachment 4: MU1 Water Quality Data
3rd Quarter 2016
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 [†]	% Diff	Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	
MU-112	MU1 Underlying	7/22/2016	14	97	206.0	-53	5.4	21.3	-74	449	658.9	-32	
MU-112	MU1 Underlying	8/5/2016	14	98	206.0	-52	5.2	21.3	-76	449	658.9	-32	
MU-112	MU1 Underlying	8/19/2016	14	97	206.0	-53	5.9	21.3	-72	448	658.9	-32	
MU-112	MU1 Underlying	9/3/2016	15	98	206.0	-53	5.3	21.3	-75	440	658.9	-33	
MU-112	MU1 Underlying	9/27/2016	24	95	206.0	-54	5.9	21.3	-72	446	658.9	-32	
MU-113	MU1 Underlying	7/8/2016	- -	94	206.0	-54	4.8	21.3	-77	478	658.9	-27	
MU-113	MU1 Underlying	7/22/2016	14	93	206.0	-55	5.0	21.3	-76	480	658.9	-27	
MU-113	MU1 Underlying	8/5/2016	14	94	206.0	-54	5.0	21.3	-76	482	658.9	-27	
MU-113	MU1 Underlying	8/19/2016	14	94	206.0	-54	4.9	21.3	-77	480	658.9	-27	
MU-113	MU1 Underlying	9/3/2016	15	93	206.0	-55	5.7	21.3	-73	478	658.9	-27	
MU-113	MU1 Underlying	9/27/2016	24	93	206.0	-55	5.5	21.3	-74	485	658.9	-26	
LC29M	Regional DE	10/6/2016	- -	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficient water
MB-10	Regional DE	10/6/2016	- -	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficient water

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