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

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

LOST CREEK ISR, LLC

October 28, 2015

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

Re: Quarterly Report for 3rd Quarter 2015 for the Lost Creek ISR Project
Permit #788 (BLM WYW-166318)

Dear Mr. Wood,

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

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

Mechanical Integrity Testing
During the third quarter of 2015 a total of 28 Mechanical Integrity Tests (MIT) were performed at 27 wells in accordance with the approved Permit Operations Plan Section 3.4. Results are summarized on **Attachment I**. The MITs resulted in 24 successful tests with 4 failures (3 failed wells). Wells M-HJ227, M-HJ231, and M-HJ231A will be plugged and abandoned in accordance with Permit requirements.

Wellfield Monitoring
Wellfield injection and production in Mine Unit 1 continued throughout the quarter. Lixiviant was generated by the addition of sodium carbonate ($NaCO_3$ or "soda ash") solution, carbon dioxide (CO_2), and oxygen (O_2) to the injection stream. Samples from the injection circuit are analyzed for pH and bicarbonate ion and the results summarized on Table 1:

Table 1: Summary of Injection Fluid Quality for 2nd Quarter 2015

Sample ID	Average* pH (s.u.)	Average* Bicarbonate Ion (mg/L)	Average* Conductivity (µS/cm)
Plant Injection Circuit (IC)	6.91	561	2155
Injection HH1-1	7.19	561	2173
Injection HH1-2	6.86	565	2329
Injection HH1-3	6.87	564	2225
Injection HH1-4	6.88	564	2252
Injection HH1-5	6.93	565	2191
Injection HH1-6	6.92	563	2232
Injection HH1-7	6.95	563	2190
Injection HH1-8	6.93	567	2230
Injection HH1-9	6.95	567	2185
Injection HH1-10	6.91	561	2171
Injection HH1-11	6.83	531	2076

**Results averaged over the quarter*

Eleven (11) header houses were in operation for production as of the end of the third quarter. The injection rates and pressures for each header house manifold are provided on **Attachment 2**. Additionally, production flow (PC), injection flow (IC), bleed values, and number of wells injecting are also represented. The bleed rate percentage is calculated by dividing the bleed rate by the production rate and multiplying by 100. Main bleed is diverted in a metered line directly from the injection circuit line. Bleed water is disposed of by approved means and not reintroduced into circulation.

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

Data results from routine groundwater quality monitoring analysis and associated quality control (QC) is included as **Attachment 4**. Excursion monitoring parameters include alkalinity, chloride, and specific conductance for which associated Upper Control Limits (UCLs) have been established by well group (i.e. ring, overlying, and underlying wells). As described in the Permit

Operations Plan Section 3.6.4, an excursion may be indicated by any one analytical parameter result exceeding the associated UCL by 20% or more or by two or three results exceeding the applicable UCL. All of MU1 monitor wells were sampled routinely which includes 28 monitor ring wells, 26 mine unit wells (13 overlying and 13 underlying), and 2 regional DE zone wells. Sampling was conducted on a semi-monthly basis, with each event at least 10 days apart, during production within Mine Unit 1. 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:

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

As described in the associated excursion reports previously submitted to LQD, one excursion (MU-109) was in effect from the previous quarter and another excursion (MU-104) occurred during the quarter. The excursion at MU-109 continued from the previous quarter and achieved corrected status on August 8, 2015 as described in the summary report submitted to LQD on September 15, 2015. An excursion occurred at MU-104 on July 13, 2015 and immediately corrected as of August 4, 2015 as described in the report submitted August 14, 2015. A reoccurrence of excursion at MU-104 was suspected on August 26, 2015 when results from the three UCL parameters exceeded the associated UCL values. This occurred a short time after the injection was restarted in the vicinity following the correction of the prior excursion. The injection was again terminated and the subsequent confirmation samples did not meet the criteria of excursion since water quality had quickly been normalized. No other exceedance of UCLs occurred during the quarter.

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

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

Sincerely,

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

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

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

Attachment 1: Mechanical Integrity Testing
3rd Quarter 2015
Lost Creek ISR Project PT788

	Well ID	Well Type	MIT[(1)] Date	P/F	P&A[(2)] Date	Comments
1	1I016	I	7/16/2015	Pass	- -	Retest after perforated
2	1I129	I	7/16/2015	Pass	- -	Retest after perforated
3	1I170	I	7/16/2015	Pass	- -	Retest after perforated
4	1I279	I	7/17/2015	Pass	- -	Retest after perforated
5	1I655A	I	7/30/2015	Pass	- -	
6	1P256	P	8/21/2015	Pass	- -	Retest after gravel packing
7	1P293	P	7/28/2015	Pass	- -	
8	1P339	P	8/24/2015	Pass	- -	Retest after gravel packing
9	1P344A	P	8/21/2015	Pass	- -	Retest after gravel packing
10	1P354	P	8/21/2015	Pass	- -	Retest after gravel packing
11	M-HJ216	M	8/6/2015	Pass	- -	
12	M-HJ218	M	8/6/2015	Pass	- -	
13	M-HJ219	M	8/5/2015	Pass	- -	
14	M-HJ220	M	8/5/2015	Pass	- -	
15	M-HJ221	M	7/28/2015	Pass	- -	
16	M-HJ222	M	7/28/2015	Pass	- -	
17	M-HJ223	M	8/5/2015	Pass	- -	
18	M-HJ224	M	7/30/2015	Pass	- -	
19	M-HJ225	M	8/5/2015	Pass	- -	
20	M-HJ226	M	7/30/2015	Pass	- -	
21	M-HJ227	M	7/30/2015	Fail	- -	Swab and retest
22	M-HJ227	M	8/5/2015	Fail	TBA	
23	M-HJ227A	M	8/21/2015	Pass	- -	
24	M-HJ229	M	8/6/2015	Pass	- -	
25	M-HJ230	M	7/30/2015	Pass	- -	
26	M-HJ231	M	8/24/2015	Fail	TBA	
27	M-HJ231A	M	9/1/2015	Fail	TBA	
28	MU-104	M	9/1/2015	Pass	- -	Retested

24 Pass
4 Fails
3 Net Failed Wells
28 Total MITs
27 Wells Tested

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

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

TBA: To be abandoned

I: Class III Injection Well

P: Production Well

M: Monitor Well

Attachment 2: Plant Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Production Flow Rate (avg gpm)	Injection Flow Rate (avg gpm)	Main Bleed Flow Rate (avg gpm)	Total Bleed Rate Percent	Comments
7/1/2015	1995	1988	12.7	0.63%	
7/2/2015	1967	1962	12.2	0.62%	
7/3/2015	1969	1965	12.6	0.64%	
7/4/2015	1625	1621	11.2	0.69%	
7/5/2015	1524	1522	10.1	0.66%	
7/6/2015	1514	1511	9.9	0.65%	
7/7/2015	1888	1883	11.8	0.63%	
7/8/2015	2033	2027	12.7	0.63%	
7/9/2015	1955	1949	12.6	0.64%	
7/10/2015	1304	1505	8.0	0.62%	
7/11/2015	1933	1956	12.1	0.63%	
7/12/2015	1992	1987	12.8	0.64%	
7/13/2015	1922	1918	12.5	0.65%	
7/14/2015	1860	1856	12.1	0.65%	
7/15/2015	1873	1866	12.1	0.65%	
7/16/2015	1853	1847	11.9	0.64%	
7/17/2015	1826	1821	11.3	0.62%	
7/18/2015	1790	1784	11.4	0.64%	
7/19/2015	1766	1760	11.4	0.65%	
7/20/2015	1751	1746	11.4	0.65%	
7/21/2015	1775	1769	11.1	0.63%	
7/22/2015	1807	1802	11.3	0.63%	
7/23/2015	1806	1801	11.7	0.65%	
7/24/2015	1830	1826	11.6	0.63%	
7/25/2015	1758	1753	11.4	0.65%	
7/26/2015	1729	1726	11.3	0.65%	
7/27/2015	1726	1722	11.3	0.66%	
7/28/2015	1748	1741	11.2	0.64%	
7/29/2015	1748	1742	11.2	0.64%	
7/30/2015	1740	1733	15.2	0.88%	
7/31/2015	1718	1714	11.6	0.67%	
8/1/2015	1695	1691	11.4	0.67%	
8/2/2015	1692	1688	11.3	0.67%	
8/3/2015	1698	1693	11.0	0.65%	
8/4/2015	1767	1762	11.2	0.63%	
8/5/2015	1810	1807	11.5	0.63%	
8/6/2015	1843	1831	12.0	0.65%	
8/7/2015	1833	1827	11.8	0.64%	
8/8/2015	1808	1800	11.6	0.64%	
8/9/2015	1787	1781	11.5	0.64%	
8/10/2015	1840	1836	11.6	0.63%	
8/11/2015	1751	1762	11.4	0.65%	
8/12/2015	1467	1461	10.4	0.71%	
8/13/2015	1857	1854	11.8	0.63%	
8/14/2015	1891	1887	12.1	0.64%	
8/15/2015	1877	1872	12.1	0.65%	
8/16/2015	1811	1805	12.0	0.66%	
8/17/2015	1866	1859	12.1	0.65%	
8/18/2015	1895	1886	12.2	0.64%	
8/19/2015	1915	1907	11.9	0.62%	
8/20/2015	1899	1892	12.1	0.64%	

Attachment 2: Plant Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Production Flow Rate (avg gpm)	Injection Flow Rate (avg gpm)	Main Bleed Flow Rate (avg gpm)	Total Bleed Rate Percent	Comments
8/21/2015	1862	1856	11.8	0.63%	
8/22/2015	1832	1823	12.2	0.67%	
8/23/2015	1816	1810	12.0	0.66%	
8/24/2015	1802	1795	11.7	0.65%	
8/25/2015	1803	1797	11.8	0.65%	
8/26/2015	1747	1741	11.5	0.66%	
8/27/2015	1774	1766	11.6	0.65%	
8/28/2015	1694	1686	11.6	0.68%	
8/29/2015	1643	1636	11.3	0.69%	
8/30/2015	1628	1621	11.1	0.68%	
8/31/2015	1640	1633	10.8	0.66%	
9/1/2015	1631	1625	11.2	0.69%	
9/2/2015	1843	1837	12.2	0.66%	
9/3/2015	1978	1972	12.2	0.62%	
9/4/2015	2030	2023	12.7	0.63%	
9/5/2015	2017	2010	12.8	0.63%	
9/6/2015	2008	2001	12.8	0.64%	
9/7/2015	2002	1995	12.6	0.63%	
9/8/2015	2056	2046	12.8	0.62%	
9/9/2015	2079	2069	12.9	0.62%	
9/10/2015	2098	2088	13.1	0.62%	
9/11/2015	2096	2086	13.0	0.62%	
9/12/2015	2085	2077	13.2	0.63%	
9/13/2015	2075	2066	13.2	0.64%	
9/14/2015	2055	2047	13.0	0.63%	
9/15/2015	2067	2059	13.2	0.64%	
9/16/2015	2122	2112	13.2	0.62%	
9/17/2015	2195	2184	13.7	0.63%	
9/18/2015	2407	2397	14.9	0.62%	
9/19/2015	2389	2381	14.9	0.62%	
9/20/2015	2386	2377	14.9	0.62%	
9/21/2015	2381	2370	14.9	0.63%	
9/22/2015	2392	2383	14.7	0.61%	
9/23/2015	2447	2437	15.2	0.62%	
9/24/2015	2364	2353	14.8	0.63%	
9/25/2015	2455	2443	15.4	0.63%	
9/26/2015	2457	2445	15.3	0.62%	
9/27/2015	2409	2398	14.9	0.62%	
9/28/2015	2420	2409	15.1	0.62%	
9/29/2015	2432	2421	15.1	0.62%	
9/30/2015	2463	2452	15.2	0.62%	

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

Attachment 2: HH1-1 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
7/1/2015	114	101	135	40	13	
7/2/2015	116	102	137	40	13	
7/3/2015	116	102	144	40	13	
7/4/2015	112	103	140	39	13	
7/5/2015	112	103	140	39	13	
7/6/2015	112	100	137	39	13	
7/7/2015	113	100	136	39	13	
7/8/2015	113	102	145	40	13	
7/9/2015	114	102	135	38	13	
7/10/2015	105	102	145	39	13	
7/11/2015	105	102	145	39	13	
7/12/2015	129	101	158	39	13	
7/13/2015	129	101	158	39	13	
7/14/2015	129	101	158	39	13	
7/15/2015	118	104	145	39	13	
7/16/2015	118	102	137	39	13	
7/17/2015	108	102	144	39	13	
7/18/2015	107	102	136	39	13	
7/19/2015	108	102	135	39	13	
7/20/2015	114	98	137	40	13	
7/21/2015	114	100	138	40	13	
7/22/2015	19	100	144	40	13	
7/23/2015	113	100	139	40	12	
7/24/2015	113	102	164	40	12	
7/25/2015	122	102	150	40	12	
7/26/2015	120	102	149	40	12	
7/27/2015	121	102	151	38	13	
7/28/2015	113	102	150	38	13	
7/29/2015	112	101	149	38	13	
7/30/2015	113	100	149	38	13	
7/31/2015	112	101	156	38	13	
8/1/2015	110	102	156	38	13	
8/2/2015	110	102	156	38	13	
8/3/2015	112	101	156	38	13	
8/4/2015	122	102	160	38	13	
8/5/2015	125	102	166	38	13	
8/6/2015	121	100	140	38	12	
8/7/2015	121	100	146	38	12	
8/8/2015	122	102	142	38	12	
8/9/2015	119	101	134	38	12	
8/10/2015	119	101	134	38	12	
8/11/2015	120	102	142	38	12	
8/12/2015	119	102	134	38	12	
8/13/2015	122	102	143	38	12	
8/14/2015	10	102	144	38	12	
8/15/2015	125	100	147	38	12	
8/16/2015	125	102	146	36	12	
8/17/2015	121	102	142	36	12	
8/18/2015	122	102	147	38	12	
8/19/2015	124	102	149	38	12	
8/20/2015	127	102	150	38	13	
8/21/2015	127	102	157	38	13	

Attachment 2: HH1-1 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
8/22/2015	125	102	155	38	13	
8/23/2015	122	102	155	38	13	
8/24/2015	122	102	151	38	13	
8/25/2015	125	101	150	38	13	
8/26/2015	122	101	144	38	13	
8/27/2015	121	102	140	38	13	
8/28/2015	121	101	143	38	13	
8/29/2015	121	102	146	38	13	
8/30/2015	121	102	150	38	13	
8/31/2015	105	102	146	38	13	
9/1/2015	107	102	166	38	13	
9/2/2015	107	102	151	38	13	
9/3/2015	109	102	152	38	13	
9/4/2015	107	102	157	38	13	
9/5/2015	109	102	159	38	13	
9/6/2015	109	102	156	38	13	
9/7/2015	109	102	158	38	13	
9/8/2015	109	102	156	38	13	
9/9/2015	111	102	156	38	13	
9/10/2015	109	102	161	38	13	
9/11/2015	111	102	164	38	13	
9/12/2015	112	102	159	38	13	
9/13/2015	112	102	159	38	13	
9/14/2015	115	102	156	38	13	
9/15/2015	113	102	152	38	13	
9/16/2015	113	102	152	38	13	
9/17/2015	113	104	166	38	13	
9/18/2015	113	102	176	38	13	
9/19/2015	117	102	169	38	13	
9/20/2015	116	102	166	38	13	
9/21/2015	114	102	167	38	13	
9/22/2015	113	102	167	38	13	
9/23/2015	115	102	166	38	13	
9/24/2015	109	90	156	38	13	
9/25/2015	109	92	157	38	13	
9/26/2015	114	102	170	38	13	
9/27/2015	117	102	164	38	13	
9/28/2015	117	102	165	38	13	
9/29/2015	120	102	161	38	13	
9/30/2015	118	102	164	38	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 fracture pressure for the well.
gpm: gallons per minute
psi: pounds per square inch
N/A: Data not available

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

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
7/1/2015	114	99	74	45	6	
7/2/2015	110	99	75	45	6	
7/3/2015	112	99	79	45	6	
7/4/2015	112	99	81	43	6	
7/5/2015	112	99	81	43	6	
7/6/2015	110	95	85	43	6	
7/7/2015	116	104	85	44	6	
7/8/2015	114	99	84	45	6	
7/9/2015	100	99	79	44	6	
7/10/2015	101	99	85	44	6	
7/11/2015	101	99	85	44	6	
7/12/2015	108	102	91	44	6	
7/13/2015	108	102	91	44	6	
7/14/2015	108	102	91	44	6	
7/15/2015	107	100	87	44	6	
7/16/2015	103	99	79	44	6	
7/17/2015	98	99	84	44	6	
7/18/2015	95	99	83	44	6	
7/19/2015	94	99	82	44	6	
7/20/2015	99	100	85	44	6	
7/21/2015	100	95	86	42	6	
7/22/2015	97	95	89	41	6	
7/23/2015	116	100	90	45	6	
7/24/2015	112	99	104	43	8	
7/25/2015	106	99	95	43	8	
7/26/2015	104	99	93	43	8	
7/27/2015	104	99	98	43	8	
7/28/2015	108	100	102	42	8	
7/29/2015	108	101	100	42	8	
7/30/2015	108	100	102	42	8	
7/31/2015	107	99	100	42	8	
8/1/2015	102	99	96	43	8	
8/2/2015	101	99	96	43	8	
8/3/2015	101	99	102	43	8	
8/4/2015	107	99	106	43	8	
8/5/2015	110	99	107	42	8	
8/6/2015	109	99	111	42	8	
8/7/2015	107	99	107	42	8	
8/8/2015	105	99	105	43	8	
8/9/2015	104	99	107	43	8	
8/10/2015	104	99	107	43	8	
8/11/2015	108	99	113	43	8	
8/12/2015	110	99	106	43	8	
8/13/2015	106	99	113	43	8	
8/14/2015	109	99	113	43	8	
8/15/2015	109	99	117	43	8	
8/16/2015	109	99	114	43	8	
8/17/2015	106	99	112	43	8	
8/18/2015	107	99	117	43	8	
8/19/2015	109	99	119	43	8	
8/20/2015	109	99	120	43	8	

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

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
8/21/2015	103	100	112	43	8	
8/22/2015	103	100	112	43	8	
8/23/2015	107	100	107	43	8	
8/24/2015	98	99	107	43	8	
8/25/2015	105	99	106	43	8	
8/26/2015	103	99	104	43	8	
8/27/2015	101	99	99	43	8	
8/28/2015	103	99	99	43	8	
8/29/2015	99	99	92	43	7	
8/30/2015	99	100	93	43	7	
8/31/2015	98	99	93	43	7	
9/1/2015	98	99	96	43	7	
9/2/2015	100	99	95	43	7	
9/3/2015	98	99	98	43	7	
9/4/2015	96	99	96	43	7	
9/5/2015	97	99	102	43	7	
9/6/2015	97	99	102	43	7	
9/7/2015	97	99	102	43	7	
9/8/2015	97	99	105	43	7	
9/9/2015	96	99	103	43	7	
9/10/2015	100	99	104	43	7	
9/11/2015	100	99	105	43	7	
9/12/2015	99	99	104	43	7	
9/13/2015	98	99	104	43	7	
9/14/2015	98	99	103	43	7	
9/15/2015	97	99	101	43	7	
9/16/2015	96	99	102	43	7	
9/17/2015	98	99	100	43	7	
9/18/2015	99	99	105	43	6	
9/19/2015	100	99	101	43	6	
9/20/2015	100	99	101	43	6	
9/21/2015	97	99	77	43	5	
9/22/2015	96	99	75	43	5	
9/23/2015	95	99	75	43	5	
9/24/2015	91	92	48	43	5	
9/25/2015	92	95	48	43	6	
9/26/2015	103	99	88	43	6	
9/27/2015	100	99	85	43	6	
9/28/2015	100	99	86	43	6	
9/29/2015	99	99	94	43	7	
9/30/2015	101	99	86	43	6	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.
gpm: gallons per minute
psi: pounds per square inch
N/A: Data not available

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

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
7/1/2015	151	101	92	53	4	
7/2/2015	156	101	95	53	4	
7/3/2015	158	101	96	53	4	
7/4/2015	161	100	95	53	4	
7/5/2015	161	100	95	53	4	
7/6/2015	161	97	95	53	4	
7/7/2015	162	100	95	53	4	
7/8/2015	158	101	96	53	4	
7/9/2015	156	101	92	53	4	
7/10/2015	156	101	96	53	4	
7/11/2015	156	101	96	53	4	
7/12/2015	175	101	100	53	4	
7/13/2015	175	101	100	53	4	
7/14/2015	175	101	100	53	4	
7/15/2015	174	104	98	53	4	
7/16/2015	165	101	93	53	4	
7/17/2015	160	101	96	53	4	
7/18/2015	162	101	93	53	4	
7/19/2015	159	101	93	53	4	
7/20/2015	165	100	94	53	4	
7/21/2015	164	101	89	53	4	
7/22/2015	164	100	92	53	4	
7/23/2015	164	100	97	53	4	
7/24/2015	141	101	105	50	6	
7/25/2015	141	101	117	50	6	
7/26/2015	141	101	115	50	6	
7/27/2015	137	101	118	49	6	
7/28/2015	142	101	121	49	6	
7/29/2015	143	101	118	49	6	
7/30/2015	144	100	118	49	6	
7/31/2015	147	100	117	49	6	
8/1/2015	139	101	116	49	6	
8/2/2015	139	101	116	49	6	
8/3/2015	138	101	115	49	6	
8/4/2015	141	101	122	48	6	
8/5/2015	146	101	121	50	6	
8/6/2015	156	95	125	50	6	
8/7/2015	159	100	126	51	6	
8/8/2015	158	101	123	51	6	
8/9/2015	156	101	120	51	6	
8/10/2015	156	101	120	51	6	
8/11/2015	154	101	123	50	6	
8/12/2015	157	101	120	50	6	
8/13/2015	157	101	127	50	6	
8/14/2015	156	100	125	50	6	
8/15/2015	156	100	129	50	6	
8/16/2015	158	100	126	50	6	
8/17/2015	155	101	127	50	6	
8/18/2015	157	101	129	50	6	
8/19/2015	157	101	130	50	6	
8/20/2015	158	101	132	50	6	

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

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
8/21/2015	145	101	130	48	6	
8/22/2015	145	101	130	48	6	
8/23/2015	158	101	122	48	6	
8/24/2015	154	101	127	49	6	
8/25/2015	153	101	125	50	6	
8/26/2015	153	101	124	50	6	
8/27/2015	151	101	121	50	6	
8/28/2015	151	101	122	50	6	
8/29/2015	147	101	89	50	4	
8/30/2015	147	101	90	50	4	
8/31/2015	146	101	91	50	4	
9/1/2015	147	101	92	50	4	
9/2/2015	148	101	93	50	4	
9/3/2015	147	101	94	50	4	
9/4/2015	146	101	96	50	4	
9/5/2015	146	101	96	50	4	
9/6/2015	146	101	96	50	4	
9/7/2015	146	101	95	50	4	
9/8/2015	146	101	98	50	4	
9/9/2015	148	101	98	50	4	
9/10/2015	146	101	96	50	4	
9/11/2015	146	101	96	50	4	
9/12/2015	146	101	95	50	4	
9/13/2015	145	101	95	50	4	
9/14/2015	144	101	95	50	4	
9/15/2015	147	101	94	50	4	
9/16/2015	140	101	94	50	2	
9/17/2015	139	101	55	50	2	
9/18/2015	139	101	82	50	3	
9/19/2015	139	100	79	50	3	
9/20/2015	138	101	79	50	3	
9/21/2015	138	101	80	50	3	
9/22/2015	142	101	140	50	5	
9/23/2015	146	101	138	50	5	
9/24/2015	137	91	135	50	5	
9/25/2015	138	92	135	50	5	
9/26/2015	152	101	139	50	5	
9/27/2015	151	101	136	50	5	
9/28/2015	150	101	136	50	5	
9/29/2015	151	101	135	50	5	
9/30/2015	151	101	138	50	5	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.
gpm: gallons per minute
psi: pounds per square inch
N/A: Data not available

Attachment 2: HH1-4 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
7/1/2015	169	106	189	55	10	
7/2/2015	168	105	193	55	10	
7/3/2015	169	107	187	55	10	
7/4/2015	167	107	181	55	10	
7/5/2015	167	103	189	55	10	
7/6/2015	166	102	204	55	10	
7/7/2015	168	101	205	55	10	
7/8/2015	167	101	206	55	10	
7/9/2015	170	107	206	55	10	
7/10/2015	167	105	198	55	9	
7/11/2015	169	108	176	55	8	
7/12/2015	170	107	181	55	8	
7/13/2015	166	107	177	55	8	
7/14/2015	167	106	170	55	8	
7/15/2015	167	106	168	55	8	
7/16/2015	162	107	161	55	8	
7/17/2015	162	107	154	55	8	
7/18/2015	160	105	161	55	8	
7/19/2015	159	106	159	55	8	
7/20/2015	160	107	158	55	8	
7/21/2015	158	107	160	55	8	
7/22/2015	158	107	164	55	8	
7/23/2015	160	105	167	55	8	
7/24/2015	155	100	163	55	8	
7/25/2015	162	107	163	55	8	
7/26/2015	160	106	154	55	8	
7/27/2015	160	106	154	55	8	
7/28/2015	159	106	154	54	8	
7/29/2015	159	107	156	55	8	
7/30/2015	160	106	155	55	8	
7/31/2015	159	115	153	54	8	
8/1/2015	158	107	154	55	8	
8/2/2015	159	105	156	55	8	
8/3/2015	160	106	155	55	8	
8/4/2015	164	106	161	55	8	
8/5/2015	163	105	164	55	8	
8/6/2015	162	104	166	55	8	
8/7/2015	162	103	174	55	8	
8/8/2015	162	105	166	55	8	
8/9/2015	162	105	166	55	8	
8/10/2015	162	106	163	55	8	
8/11/2015	162	106	166	55	8	
8/12/2015	157	105	151	55	8	
8/13/2015	164	106	157	55	8	
8/14/2015	163	107	168	55	8	
8/15/2015	163	108	169	55	8	
8/16/2015	164	108	169	55	8	
8/17/2015	164	109	164	55	8	
8/18/2015	162	105	171	55	8	
8/19/2015	162	105	172	55	8	
8/20/2015	163	105	175	55	8	

Attachment 2: HH1-4 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
8/21/2015	162	105	171	55	8	
8/22/2015	156	106	163	55	8	
8/23/2015	157	107	160	55	8	
8/24/2015	157	106	160	55	8	
8/25/2015	157	106	159	55	8	
8/26/2015	158	106	160	55	8	
8/27/2015	158	106	154	55	8	
8/28/2015	158	106	155	55	8	
8/29/2015	157	104	154	55	8	
8/30/2015	157	105	153	55	8	
8/31/2015	158	105	153	55	8	
9/1/2015	157	105	156	55	8	
9/2/2015	158	106	153	55	8	
9/3/2015	157	107	141	55	7	
9/4/2015	157	107	140	55	7	
9/5/2015	157	106	147	55	7	
9/6/2015	156	106	146	55	7	
9/7/2015	156	106	145	55	7	
9/8/2015	156	107	145	55	7	
9/9/2015	156	106	149	55	7	
9/10/2015	157	107	147	55	7	
9/11/2015	156	106	147	55	7	
9/12/2015	154	106	147	55	7	
9/13/2015	153	105	147	55	7	
9/14/2015	155	106	146	55	7	
9/15/2015	155	106	145	55	7	
9/16/2015	155	106	146	55	5	
9/17/2015	152	105	114	55	5	
9/18/2015	152	107	115	55	5	
9/19/2015	152	105	119	55	5	
9/20/2015	152	105	117	55	5	
9/21/2015	153	106	118	55	5	
9/22/2015	152	106	118	55	5	
9/23/2015	153	106	114	55	5	
9/24/2015	155	106	120	55	5	
9/25/2015	145	94	115	55	5	
9/26/2015	156	105	145	55	6	
9/27/2015	156	106	136	55	6	
9/28/2015	154	106	136	55	6	
9/29/2015	146	105	115	54	6	
9/30/2015	148	107	136	54	7	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.
gpm: gallons per minute
psi: pounds per square inch
N/A: Data not available

Attachment 2: HH1-5 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
7/1/2015	90	92	76	33	4	
7/2/2015	92	94	99	33	4	
7/3/2015	92	94	103	33	4	
7/4/2015	90	93	101	31	4	
7/5/2015	87	90	103	31	4	
7/6/2015	87	90	99	30	4	
7/7/2015	89	95	99	31	4	
7/8/2015	90	93	99	32	4	
7/9/2015	92	96	99	33	4	
7/10/2015	91	95	96	33	4	
7/11/2015	94	98	98	33	4	
7/12/2015	99	97	104	33	4	
7/13/2015	96	95	102	33	4	
7/14/2015	95	96	100	33	4	
7/15/2015	94	97	99	33	5	
7/16/2015	94	96	122	33	5	
7/17/2015	92	94	118	33	3	
7/18/2015	89	95	65	33	3	
7/19/2015	88	96	64	33	3	
7/20/2015	87	96	64	30	3	
7/21/2015	86	95	64	29	3	
7/22/2015	86	95	65	29	3	
7/23/2015	99	97	66	31	3	
7/24/2015	110	97	64	33	3	
7/25/2015	105	95	64	33	3	
7/26/2015	100	93	61	33	3	
7/27/2015	99	95	61	33	3	
7/28/2015	100	95	61	32	3	
7/29/2015	101	95	61	32	3	
7/30/2015	100	95	62	32	3	
7/31/2015	95	95	61	32	3	
8/1/2015	96	94	61	33	3	
8/2/2015	97	94	62	33	3	
8/3/2015	97	94	62	33	3	
8/4/2015	100	94	64	33	3	
8/5/2015	98	94	65	33	3	
8/6/2015	99	94	66	33	3	
8/7/2015	104	99	68	33	3	
8/8/2015	98	96	67	33	3	
8/9/2015	96	94	67	33	3	
8/10/2015	98	95	65	33	3	
8/11/2015	96	93	66	33	3	
8/12/2015	98	93	68	33	3	
8/13/2015	97	95	64	33	3	
8/14/2015	97	95	66	33	3	
8/15/2015	100	98	66	33	3	
8/16/2015	100	98	66	31	3	
8/17/2015	97	97	65	33	3	
8/18/2015	95	94	67	33	3	
8/19/2015	96	95	67	33	3	
8/20/2015	95	94	68	33	3	

Attachment 2: HH1-5 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
8/21/2015	94	94	66	33	3	
8/22/2015	91	89	64	33	3	
8/23/2015	92	93	63	33	3	
8/24/2015	93	93	64	33	3	
8/25/2015	92	92	64	33	3	
8/26/2015	93	96	65	33	3	
8/27/2015	95	95	64	33	3	
8/28/2015	94	93	63	33	3	
8/29/2015	94	94	64	33	3	
8/30/2015	94	97	64	33	3	
8/31/2015	92	92	64	33	3	
9/1/2015	93	95	65	33	3	
9/2/2015	93	97	65	33	3	
9/3/2015	88	93	50	33	2	
9/4/2015	90	95	49	33	2	
9/5/2015	92	95	50	33	2	
9/6/2015	91	95	50	33	2	
9/7/2015	90	94	50	33	2	
9/8/2015	90	94	50	33	2	
9/9/2015	90	93	51	33	2	
9/10/2015	91	93	51	33	2	
9/11/2015	92	95	51	33	2	
9/12/2015	92	95	51	33	2	
9/13/2015	90	95	51	33	2	
9/14/2015	89	94	51	33	2	
9/15/2015	88	94	51	33	2	
9/16/2015	88	94	51	33	1	
9/17/2015	88	96	27	33	6	
9/18/2015	83	88	27	33	1	
9/19/2015	89	95	29	33	1	
9/20/2015	88	94	29	33	1	
9/21/2015	88	95	29	33	1	
9/22/2015	88	95	30	33	1	
9/23/2015	88	94	29	33	1	
9/24/2015	90	95	30	33	1	
9/25/2015	83	84	29	33	1	
9/26/2015	91	93	30	33	1	
9/27/2015	92	95	29	33	1	
9/28/2015	91	95	29	33	1	
9/29/2015	90	95	29	33	1	
9/30/2015	91	94	29	33	1	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.
gpm: gallons per minute
psi: pounds per square inch
N/A: Data not available

Attachment 2: HH1-6 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
7/1/2015	117	110	160	44	9	
7/2/2015	109	107	154	44	7	
7/3/2015	105	105	127	44	7	
7/4/2015	115	109	127	43	6	
7/5/2015	100	108	109	43	6	
7/6/2015	102	111	107	44	6	
7/7/2015	106	103	108	44	6	
7/8/2015	105	100	107	44	6	
7/9/2015	106	106	107	42	6	
7/10/2015	100	109	102	42	6	
7/11/2015	104	105	100	42	6	
7/12/2015	107	106	110	42	6	
7/13/2015	106	108	107	42	6	
7/14/2015	96	100	105	42	6	
7/15/2015	96	100	103	42	6	
7/16/2015	98	100	98	42	6	
7/17/2015	100	107	91	42	5	
7/18/2015	98	107	76	42	5	
7/19/2015	97	108	75	42	5	
7/20/2015	96	108	74	42	5	
7/21/2015	94	109	75	41	6	
7/22/2015	109	98	100	42	6	
7/23/2015	114	104	103	42	6	
7/24/2015	113	104	100	43	6	
7/25/2015	113	107	101	43	7	
7/26/2015	111	108	94	43	6	
7/27/2015	111	110	94	43	5	
7/28/2015	108	108	74	42	5	
7/29/2015	108	108	75	42	5	
7/30/2015	107	108	75	41	5	
7/31/2015	100	110	73	40	5	
8/1/2015	105	107	75	43	5	
8/2/2015	103	108	75	43	5	
8/3/2015	103	107	75	43	8	
8/4/2015	102	110	78	43	5	
8/5/2015	107	108	80	42	5	
8/6/2015	105	105	80	42	5	
8/7/2015	105	103	85	42	5	
8/8/2015	97	113	76	42	5	
8/9/2015	94	108	76	42	5	
8/10/2015	93	107	74	42	5	
8/11/2015	93	108	75	42	5	
8/12/2015	91	101	78	42	5	
8/13/2015	96	108	72	42	5	
8/14/2015	93	110	79	42	5	
8/15/2015	90	104	79	40	5	
8/16/2015	93	109	80	41	5	
8/17/2015	90	109	77	42	5	
8/18/2015	87	106	81	42	5	
8/19/2015	87	107	81	42	5	
8/20/2015	86	108	85	42	5	

Attachment 2: HH1-6 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
8/21/2015	85	107	82	38	5	
8/22/2015	87	108	99	38	6	
8/23/2015	85	106	95	39	6	
8/24/2015	87	104	96	40	6	
8/25/2015	87	104	94	42	6	
8/26/2015	87	108	94	42	7	
8/27/2015	89	108	97	42	7	
8/28/2015	86	106	97	42	8	
8/29/2015	87	108	130	42	8	
8/30/2015	87	108	128	42	8	
8/31/2015	87	109	128	42	8	
9/1/2015	86	109	132	42	8	
9/2/2015	86	110	130	42	8	
9/3/2015	83	107	110	42	7	
9/4/2015	82	109	109	42	7	
9/5/2015	83	108	114	42	7	
9/6/2015	83	108	114	42	7	
9/7/2015	83	108	114	42	7	
9/8/2015	83	108	113	42	7	
9/9/2015	83	108	116	42	7	
9/10/2015	84	108	114	42	7	
9/11/2015	84	108	115	42	7	
9/12/2015	84	107	115	42	7	
9/13/2015	83	108	114	42	7	
9/14/2015	84	108	114	42	7	
9/15/2015	83	107	112	42	7	
9/16/2015	82	108	113	42	7	
9/17/2015	87	108	116	42	7	
9/18/2015	86	104	114	42	7	
9/19/2015	88	108	119	42	7	
9/20/2015	87	107	117	42	7	
9/21/2015	87	107	118	43	7	
9/22/2015	97	107	120	43	7	
9/23/2015	97	108	117	43	7	
9/24/2015	95	108	125	43	7	
9/25/2015	87	96	120	43	7	
9/26/2015	91	110	122	43	7	
9/27/2015	96	108	124	43	7	
9/28/2015	91	108	119	43	7	
9/29/2015	87	108	119	40	7	
9/30/2015	85	107	121	40	7	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.
gpm: gallons per minute
psi: pounds per square inch
N/A: Data not available

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

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
7/1/2015	236	98	160	47	8	
7/2/2015	234	99	169	47	8	
7/3/2015	265	98	180	47	8	
7/4/2015	252	99	173	47	8	
7/5/2015	262	112	177	47	8	
7/6/2015	243	112	126	47	8	
7/7/2015	240	113	131	46	8	
7/8/2015	219	91	162	47	8	
7/9/2015	233	100	170	46	8	
7/10/2015	226	103	160	46	8	
7/11/2015	224	98	161	46	8	
7/12/2015	227	97	81	46	8	
7/13/2015	219	99	82	46	7	
7/14/2015	212	102	170	46	7	
7/15/2015	206	103	168	46	7	
7/16/2015	201	103	160	46	8	
7/17/2015	204	108	173	46	7	
7/18/2015	197	109	165	46	7	
7/19/2015	192	110	163	46	7	
7/20/2015	190	110	160	46	7	
7/21/2015	181	110	164	46	7	
7/22/2015	193	109	166	47	7	
7/23/2015	188	108	147	47	7	
7/24/2015	180	108	143	47	7	
7/25/2015	182	110	161	47	7	
7/26/2015	174	110	158	47	7	
7/27/2015	174	111	158	47	7	
7/28/2015	171	110	155	47	7	
7/29/2015	167	109	161	47	7	
7/30/2015	166	109	160	47	7	
7/31/2015	163	110	158	47	6	
8/1/2015	163	110	57	47	6	
8/2/2015	161	110	53	47	6	
8/3/2015	161	110	57	47	6	
8/4/2015	170	109	142	46	6	
8/5/2015	161	110	134	45	6	
8/6/2015	158	107	164	45	6	
8/7/2015	167	108	61	46	7	
8/8/2015	160	110	160	46	7	
8/9/2015	157	109	139	46	7	
8/10/2015	166	110	156	46	7	
8/11/2015	165	108	165	46	7	
8/12/2015	170	103	167	46	7	
8/13/2015	170	112	153	47	7	
8/14/2015	169	106	164	47	7	
8/15/2015	166	107	126	47	7	
8/16/2015	164	108	72	47	7	
8/17/2015	164	110	65	46	7	
8/18/2015	157	107	96	47	6	
8/19/2015	153	106	153	47	6	
8/20/2015	153	106	155	47	6	

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

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
8/21/2015	148	106	155	47	6	
8/22/2015	148	107	173	47	7	
8/23/2015	149	108	166	47	7	
8/24/2015	150	108	70	47	7	
8/25/2015	149	109	164	47	7	
8/26/2015	148	109	162	47	7	
8/27/2015	148	109	157	47	7	
8/28/2015	148	110	157	47	7	
8/29/2015	146	109	157	47	7	
8/30/2015	143	109	83	47	7	
8/31/2015	143	110	64	47	7	
9/1/2015	139	110	62	47	7	
9/2/2015	137	111	63	47	7	
9/3/2015	134	102	71	47	6	
9/4/2015	132	98	92	47	5	
9/5/2015	134	97	54	47	5	
9/6/2015	135	98	57	47	5	
9/7/2015	134	98	110	47	5	
9/8/2015	134	98	57	47	5	
9/9/2015	134	95	121	47	5	
9/10/2015	132	95	119	47	5	
9/11/2015	132	93	118	47	5	
9/12/2015	133	94	51	46	5	
9/13/2015	131	94	76	46	5	
9/14/2015	131	95	76	46	5	
9/15/2015	132	96	90	47	5	
9/16/2015	127	95	51	47	9	
9/17/2015	134	92	110	47	9	
9/18/2015	142	95	99	47	9	
9/19/2015	160	110	230	47	9	
9/20/2015	160	109	122	47	9	
9/21/2015	161	110	206	47	9	
9/22/2015	157	108	226	47	9	
9/23/2015	157	108	127	47	8	
9/24/2015	152	109	107	47	8	
9/25/2015	133	97	111	47	8	
9/26/2015	147	110	115	47	8	
9/27/2015	153	109	218	47	8	
9/28/2015	153	110	107	47	8	
9/29/2015	152	109	102	47	8	
9/30/2015	149	109	222	47	8	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.
gpm: gallons per minute
psi: pounds per square inch
N/A: Data not available

Attachment 2: HH1-8 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
7/1/2015	246	98	255	42	12	
7/2/2015	226	100	245	42	12	
7/3/2015	224	99	257	42	12	
7/4/2015	223	100	249	42	12	
7/5/2015	239	113	266	42	12	
7/6/2015	214	98	265	42	12	
7/7/2015	222	107	268	42	12	
7/8/2015	181	84	255	42	12	
7/9/2015	213	101	260	42	12	
7/10/2015	212	103	251	42	12	
7/11/2015	212	105	252	42	12	
7/12/2015	219	98	260	42	11	
7/13/2015	213	100	254	42	11	
7/14/2015	204	103	244	42	11	
7/15/2015	200	104	242	42	11	
7/16/2015	194	104	251	42	12	
7/17/2015	200	103	239	42	12	
7/18/2015	197	103	251	42	12	
7/19/2015	192	105	248	42	12	
7/20/2015	189	104	246	42	12	
7/21/2015	182	104	228	42	11	
7/22/2015	181	103	233	41	11	
7/23/2015	182	103	236	41	11	
7/24/2015	177	104	231	42	11	
7/25/2015	177	104	233	42	11	
7/26/2015	173	104	221	42	11	
7/27/2015	172	104	219	42	11	
7/28/2015	170	103	221	42	11	
7/29/2015	167	103	226	41	11	
7/30/2015	166	103	227	40	11	
7/31/2015	163	104	223	40	11	
8/1/2015	162	104	228	42	11	
8/2/2015	158	103	228	42	11	
8/3/2015	160	103	228	42	12	
8/4/2015	165	103	239	42	11	
8/5/2015	168	103	243	42	11	
8/6/2015	166	101	244	42	11	
8/7/2015	174	107	254	42	12	
8/8/2015	167	106	260	42	12	
8/9/2015	161	103	257	42	12	
8/10/2015	167	104	256	42	12	
8/11/2015	165	104	262	42	12	
8/12/2015	167	99	269	42	12	
8/13/2015	188	104	247	42	12	
8/14/2015	230	103	276	41	12	
8/15/2015	266	103	286	41	12	
8/16/2015	260	105	262	42	11	
8/17/2015	228	108	252	41	11	
8/18/2015	281	104	248	41	10	
8/19/2015	298	104	252	40	10	
8/20/2015	321	104	260	42	10	

Attachment 2: HH1-8 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
8/21/2015	342	103	259	41	10	
8/22/2015	318	101	247	41	10	
8/23/2015	291	105	237	42	10	
8/24/2015	284	105	236	42	10	
8/25/2015	273	104	231	42	10	
8/26/2015	265	104	228	42	10	
8/27/2015	252	103	220	42	10	
8/28/2015	276	103	222	42	10	
8/29/2015	246	102	199	42	9	
8/30/2015	240	103	195	42	9	
8/31/2015	238	104	196	42	9	
9/1/2015	252	101	207	42	9	
9/2/2015	247	103	182	42	9	
9/3/2015	237	101	186	42	8	
9/4/2015	225	97	184	42	7	
9/5/2015	223	96	172	42	7	
9/6/2015	220	97	172	42	7	
9/7/2015	218	97	171	42	8	
9/8/2015	217	97	171	42	8	
9/9/2015	214	95	172	42	7	
9/10/2015	211	94	178	42	7	
9/11/2015	207	93	178	42	7	
9/12/2015	206	93	179	42	7	
9/13/2015	205	94	178	42	7	
9/14/2015	202	95	177	42	7	
9/15/2015	198	96	175	42	7	
9/16/2015	239	94	179	42	7	
9/17/2015	259	91	182	42	8	
9/18/2015	265	94	199	42	8	
9/19/2015	274	104	207	42	8	
9/20/2015	266	103	205	42	8	
9/21/2015	266	104	205	42	8	
9/22/2015	259	103	204	42	8	
9/23/2015	263	105	201	42	8	
9/24/2015	288	102	218	42	8	
9/25/2015	275	89	212	42	8	
9/26/2015	295	100	220	41	8	
9/27/2015	280	104	214	41	8	
9/28/2015	274	104	210	41	8	
9/29/2015	292	103	213	41	8	
9/30/2015	327	104	216	41	8	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.
gpm: gallons per minute
psi: pounds per square inch
N/A: Data not available

Attachment 2: HH1-9 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
7/1/2015	284	92	331	49	17	
7/2/2015	274	94	316	49	17	
7/3/2015	277	92	339	49	17	
7/4/2015	278	93	328	49	17	
7/5/2015	306	106	363	49	17	
7/6/2015	294	106	326	49	15	
7/7/2015	291	107	328	49	15	
7/8/2015	260	88	334	49	16	
7/9/2015	287	95	334	49	16	
7/10/2015	286	97	321	49	16	
7/11/2015	285	97	321	49	14	
7/12/2015	319	91	326	49	14	
7/13/2015	302	93	311	49	14	
7/14/2015	296	96	301	49	14	
7/15/2015	303	97	300	49	14	
7/16/2015	297	97	289	49	15	
7/17/2015	300	102	296	49	15	
7/18/2015	297	102	307	49	15	
7/19/2015	303	101	304	49	15	
7/20/2015	300	101	303	49	14	
7/21/2015	298	101	304	49	15	
7/22/2015	300	100	311	49	15	
7/23/2015	301	100	316	48	15	
7/24/2015	318	100	313	49	15	
7/25/2015	363	102	325	49	15	
7/26/2015	318	102	303	49	15	
7/27/2015	306	102	303	49	15	
7/28/2015	330	101	309	49	15	
7/29/2015	367	99	319	48	15	
7/30/2015	377	98	321	48	15	
7/31/2015	375	99	318	49	15	
8/1/2015	372	99	321	49	15	
8/2/2015	354	101	321	49	15	
8/3/2015	349	102	321	48	15	
8/4/2015	392	101	347	49	15	
8/5/2015	399	101	334	48	14	
8/6/2015	436	98	363	48	14	
8/7/2015	466	97	376	48	15	
8/8/2015	455	99	378	48	16	
8/9/2015	430	100	373	48	16	
8/10/2015	423	101	364	48	16	
8/11/2015	488	97	380	49	16	
8/12/2015	485	93	379	49	16	
8/13/2015	326	103	342	49	16	
8/14/2015	428	98	375	49	18	
8/15/2015	416	97	403	49	17	
8/16/2015	411	99	407	49	17	
8/17/2015	393	102	375	49	16	
8/18/2015	392	98	435	49	19	
8/19/2015	392	97	437	49	19	
8/20/2015	384	97	422	49	19	

Attachment 2: HH1-9 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
8/21/2015	380	97	434	49	19	
8/22/2015	366	98	397	49	19	
8/23/2015	375	100	407	49	19	
8/24/2015	371	100	390	49	19	
8/25/2015	370	100	404	49	19	
8/26/2015	373	101	398	49	19	
8/27/2015	365	102	385	49	19	
8/28/2015	362	101	389	49	19	
8/29/2015	338	102	347	49	16	
8/30/2015	330	102	348	49	16	
8/31/2015	327	102	328	49	15	
9/1/2015	319	102	320	49	15	
9/2/2015	328	103	362	49	16	
9/3/2015	303	94	318	49	15	
9/4/2015	295	91	313	49	14	
9/5/2015	290	90	309	49	14	
9/6/2015	289	91	308	49	14	
9/7/2015	289	91	308	49	14	
9/8/2015	290	91	307	49	14	
9/9/2015	271	88	311	49	14	
9/10/2015	288	87	307	49	14	
9/11/2015	276	86	311	49	14	
9/12/2015	283	87	311	49	14	
9/13/2015	283	87	311	49	14	
9/14/2015	279	88	309	49	14	
9/15/2015	279	89	306	49	14	
9/16/2015	273	88	313	49	14	
9/17/2015	274	85	320	49	16	
9/18/2015	296	87	355	49	16	
9/19/2015	340	102	372	49	16	
9/20/2015	337	102	368	49	16	
9/21/2015	337	101	368	49	16	
9/22/2015	336	101	368	49	16	
9/23/2015	334	101	362	49	16	
9/24/2015	392	96	369	49	15	
9/25/2015	418	83	364	48	16	
9/26/2015	438	103	401	49	16	
9/27/2015	404	102	388	49	16	
9/28/2015	398	100	383	49	17	
9/29/2015	412	101	404	49	17	
9/30/2015	423	101	415	49	17	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.
gpm: gallons per minute
psi: pounds per square inch
N/A: Data not available

Attachment 2: HH1-10 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
7/1/2015	470	92	494	54	24	
7/2/2015	461	92	483	53	24	
7/3/2015	445	94	491	54	24	
7/4/2015	449	95	492	54	24	
7/5/2015	0	0	0	0	0	
7/6/2015	0	0	0	0	0	
7/7/2015	0	0	0	0	23	
7/8/2015	531	91	514	54	24	
7/9/2015	513	91	486	54	24	
7/10/2015	481	94	485	54	23	
7/11/2015	482	96	485	54	23	
7/12/2015	461	89	465	54	22	
7/13/2015	453	91	465	51	23	
7/14/2015	403	96	465	50	23	
7/15/2015	399	97	442	49	23	
7/16/2015	411	96	458	51	24	
7/17/2015	384	102	445	51	22	
7/18/2015	380	102	443	51	22	
7/19/2015	367	104	433	51	22	
7/20/2015	362	103	436	48	22	
7/21/2015	368	105	408	48	20	
7/22/2015	367	104	415	49	20	
7/23/2015	360	104	412	49	20	
7/24/2015	351	105	403	51	20	
7/25/2015	329	105	378	51	20	
7/26/2015	319	107	363	51	19	
7/27/2015	314	109	360	51	19	
7/28/2015	305	108	375	48	19	
7/29/2015	301	108	373	49	19	
7/30/2015	295	108	368	49	19	
7/31/2015	290	108	368	49	19	
8/1/2015	291	108	325	51	17	
8/2/2015	287	109	324	51	17	
8/3/2015	285	110	326	51	17	
8/4/2015	276	108	328	51	16	
8/5/2015	278	108	323	49	16	
8/6/2015	287	106	352	49	16	
8/7/2015	284	104	327	49	16	
8/8/2015	282	106	331	51	16	
8/9/2015	309	105	331	51	16	
8/10/2015	282	107	331	51	16	
8/11/2015	282	104	338	51	16	
8/12/2015	271	100	345	51	16	
8/13/2015	286	109	334	51	15	
8/14/2015	272	104	340	49	15	
8/15/2015	282	103	311	49	14	
8/16/2015	267	105	322	49	14	
8/17/2015	264	107	309	49	14	
8/18/2015	299	102	311	54	14	
8/19/2015	297	102	315	54	14	
8/20/2015	295	102	314	54	14	

Attachment 2: HH1-10 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
8/21/2015	290	101	306	51	14	
8/22/2015	287	103	306	51	14	
8/23/2015	278	104	306	51	14	
8/24/2015	277	104	277	51	14	
8/25/2015	275	105	277	51	14	
8/26/2015	273	106	276	51	14	
8/27/2015	230	109	269	54	16	
8/28/2015	254	107	303	54	16	
8/29/2015	212	111	260	49	14	
8/30/2015	210	112	255	49	14	
8/31/2015	209	113	255	49	14	
9/1/2015	208	112	262	49	14	
9/2/2015	214	113	236	49	14	
9/3/2015	167	100	249	49	14	
9/4/2015	160	96	272	49	14	
9/5/2015	157	95	266	49	14	
9/6/2015	150	96	265	49	14	
9/7/2015	149	96	263	49	14	
9/8/2015	149	97	265	49	14	
9/9/2015	241	92	279	49	14	
9/10/2015	244	91	287	48	15	
9/11/2015	274	90	289	49	15	
9/12/2015	272	90	286	49	15	
9/13/2015	269	91	286	49	15	
9/14/2015	264	92	274	49	16	
9/15/2015	257	92	274	49	16	
9/16/2015	252	91	276	49	16	
9/17/2015	246	89	298	49	15	
9/18/2015	249	92	337	49	15	
9/19/2015	267	109	323	49	15	
9/20/2015	262	109	321	49	15	
9/21/2015	263	109	324	50	15	
9/22/2015	266	109	322	51	15	
9/23/2015	276	108	311	52	14	
9/24/2015	266	109	306	50	14	
9/25/2015	245	96	295	50	14	
9/26/2015	259	109	307	50	13	
9/27/2015	257	110	295	50	13	
9/28/2015	254	110	296	50	13	
9/29/2015	251	109	297	50	13	
9/30/2015	248	110	290	50	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
N/A: Data not available

Attachment 2: HH1-11 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
7/1/2015	- -	- -	- -	- -	- -	
7/2/2015	- -	- -	- -	- -	- -	
7/3/2015	- -	- -	- -	- -	- -	
7/4/2015	- -	- -	- -	- -	- -	
7/5/2015	- -	- -	- -	- -	- -	
7/6/2015	- -	- -	- -	- -	- -	
7/7/2015	- -	- -	- -	- -	- -	
7/8/2015	- -	- -	- -	- -	- -	
7/9/2015	- -	- -	- -	- -	- -	
7/10/2015	- -	- -	- -	- -	- -	
7/11/2015	- -	- -	- -	- -	- -	
7/12/2015	- -	- -	- -	- -	- -	
7/13/2015	- -	- -	- -	- -	- -	
7/14/2015	- -	- -	- -	- -	- -	
7/15/2015	- -	- -	- -	- -	- -	
7/16/2015	- -	- -	- -	- -	- -	
7/17/2015	- -	- -	- -	- -	- -	
7/18/2015	- -	- -	- -	- -	- -	
7/19/2015	- -	- -	- -	- -	- -	
7/20/2015	- -	- -	- -	- -	- -	
7/21/2015	- -	- -	- -	- -	- -	
7/22/2015	- -	- -	- -	- -	- -	
7/23/2015	- -	- -	- -	- -	- -	
7/24/2015	- -	- -	- -	- -	- -	
7/25/2015	- -	- -	- -	- -	- -	
7/26/2015	- -	- -	- -	- -	- -	
7/27/2015	- -	- -	- -	- -	- -	
7/28/2015	- -	- -	- -	- -	- -	
7/29/2015	- -	- -	- -	- -	- -	
7/30/2015	- -	- -	- -	- -	- -	
7/31/2015	- -	- -	- -	- -	- -	
8/1/2015	- -	- -	- -	- -	- -	
8/2/2015	- -	- -	- -	- -	- -	
8/3/2015	- -	- -	- -	- -	- -	
8/4/2015	- -	- -	- -	- -	- -	
8/5/2015	- -	- -	- -	- -	- -	
8/6/2015	- -	- -	- -	- -	- -	
8/7/2015	- -	- -	- -	- -	- -	
8/8/2015	- -	- -	- -	- -	- -	
8/9/2015	- -	- -	- -	- -	- -	
8/10/2015	- -	- -	- -	- -	- -	
8/11/2015	- -	- -	- -	- -	- -	
8/12/2015	- -	- -	- -	- -	- -	
8/13/2015	- -	- -	- -	- -	- -	
8/14/2015	- -	- -	- -	- -	- -	
8/15/2015	- -	- -	- -	- -	- -	
8/16/2015	- -	- -	- -	- -	- -	
8/17/2015	- -	- -	- -	- -	- -	
8/18/2015	- -	- -	- -	- -	- -	
8/19/2015	- -	- -	- -	- -	- -	
8/20/2015	- -	- -	- -	- -	- -	

Attachment 2: HH1-11 Operational Flow Summary
3rd Quarter 2015
Lost Creek ISR Project PT788

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Number of Wells Injecting	Number of Wells Producing	Comments
8/21/2015	- -	- -	- -	- -	- -	
8/22/2015	- -	- -	- -	- -	- -	
8/23/2015	- -	- -	- -	- -	- -	
8/24/2015	- -	- -	- -	- -	- -	
8/25/2015	- -	- -	- -	- -	- -	
8/26/2015	- -	- -	- -	- -	- -	
8/27/2015	- -	- -	- -	- -	- -	
8/28/2015	- -	- -	- -	- -	- -	
8/29/2015	- -	- -	- -	- -	- -	
8/30/2015	- -	- -	- -	- -	- -	
8/31/2015	- -	- -	- -	- -	- -	
9/1/2015	- -	- -	- -	- -	- -	
9/2/2015	378	103	356	51	20	HH1-11 Start
9/3/2015	493	95	445	51	24	
9/4/2015	525	92	464	51	24	
9/5/2015	521	94	456	51	24	
9/6/2015	515	95	452	51	24	
9/7/2015	508	95	447	51	24	
9/8/2015	509	95	459	51	24	
9/9/2015	500	95	503	51	25	
9/10/2015	492	91	501	51	25	
9/11/2015	492	90	499	51	25	
9/12/2015	485	91	497	51	25	
9/13/2015	480	91	494	51	25	
9/14/2015	480	94	489	51	25	
9/15/2015	475	94	482	51	27	
9/16/2015	475	94	488	51	27	
9/17/2015	551	90	536	51	27	
9/18/2015	696	106	653	51	27	
9/19/2015	640	106	625	51	27	
9/20/2015	650	106	628	51	27	
9/21/2015	645	106	630	51	27	
9/22/2015	640	106	634	51	27	
9/23/2015	636	106	645	51	27	
9/24/2015	596	95	607	51	27	
9/25/2015	602	100	618	51	27	
9/26/2015	614	106	621	51	26	
9/27/2015	597	106	605	51	26	
9/28/2015	588	106	609	51	26	
9/29/2015	589	106	608	51	26	
9/30/2015	584	109	601	51	26	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.
gpm: gallons per minute
psi: pounds per square inch
N/A: Data not available

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

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-101	MU1 Ring	7/7/2015	187.63	
M-101	MU1 Ring	7/14/2015	182.20	Supplemental
M-101	MU1 Ring	7/22/2015	192.40	
M-101	MU1 Ring	8/5/2015	194.06	
M-101	MU1 Ring	8/19/2015	191.30	Supplemental
M-101	MU1 Ring	9/1/2015	197.29	
M-101	MU1 Ring	9/23/2015	197.77	
M-102	MU1 Ring	7/7/2015	191.95	
M-102	MU1 Ring	7/14/2015	186.41	Supplemental
M-102	MU1 Ring	7/22/2015	196.68	
M-102	MU1 Ring	8/5/2015	198.71	
M-102	MU1 Ring	8/19/2015	195.47	Supplemental
M-102	MU1 Ring	9/1/2015	201.56	
M-102	MU1 Ring	9/23/2015	206.66	
M-103A	MU1 Ring	7/8/2015	186.93	
M-103A	MU1 Ring	7/14/2015	189.98	Supplemental
M-103A	MU1 Ring	7/22/2015	191.41	
M-103A	MU1 Ring	8/5/2015	194.03	
M-103A	MU1 Ring	8/19/2015	190.02	Supplemental
M-103A	MU1 Ring	9/1/2015	198.00	
M-103A	MU1 Ring	9/23/2015	198.17	
M-104	MU1 Ring	7/8/2015	192.46	
M-104	MU1 Ring	7/14/2015	191.11	Supplemental
M-104	MU1 Ring	7/22/2015	202.67	
M-104	MU1 Ring	8/5/2015	209.03	
M-104	MU1 Ring	8/19/2015	201.75	Supplemental
M-104	MU1 Ring	9/1/2015	219.87	
M-104	MU1 Ring	9/23/2015	219.98	
M-105	MU1 Ring	7/8/2015	181.24	
M-105	MU1 Ring	7/14/2015	189.02	Supplemental
M-105	MU1 Ring	7/22/2015	201.97	
M-105	MU1 Ring	8/5/2015	207.88	
M-105	MU1 Ring	8/19/2015	199.60	Supplemental
M-105	MU1 Ring	9/1/2015	221.41	
M-105	MU1 Ring	9/23/2015	222.12	
M-106	MU1 Ring	7/8/2015	169.52	
M-106	MU1 Ring	7/14/2015	181.46	Supplemental
M-106	MU1 Ring	7/22/2015	193.46	
M-106	MU1 Ring	8/5/2015	201.01	
M-106	MU1 Ring	8/19/2015	191.78	Supplemental
M-106	MU1 Ring	9/1/2015	215.44	
M-106	MU1 Ring	9/23/2015	219.78	
M-107	MU1 Ring	7/8/2015	183.29	
M-107	MU1 Ring	7/14/2015	195.86	Supplemental
M-107	MU1 Ring	7/22/2015	203.97	
M-107	MU1 Ring	8/5/2015	208.34	
M-107	MU1 Ring	8/19/2015	203.34	Supplemental
M-107	MU1 Ring	9/1/2015	218.59	
M-107	MU1 Ring	9/23/2015	219.50	

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

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-108	MU1 Ring	7/8/2015	188.50	
M-108	MU1 Ring	7/14/2015	196.87	Supplemental
M-108	MU1 Ring	7/22/2015	204.58	
M-108	MU1 Ring	8/5/2015	210.37	
M-108	MU1 Ring	8/19/2015	204.29	Supplemental
M-108	MU1 Ring	9/1/2015	218.73	
M-108	MU1 Ring	9/23/2015	219.70	
M-109	MU1 Ring	7/8/2015	189.45	
M-109	MU1 Ring	7/14/2015	192.17	Supplemental
M-109	MU1 Ring	7/22/2015	199.17	
M-109	MU1 Ring	8/5/2015	203.22	
M-109	MU1 Ring	8/19/2015	199.49	Supplemental
M-109	MU1 Ring	9/1/2015	210.40	
M-109	MU1 Ring	9/23/2015	209.52	
M-110	MU1 Ring	7/8/2015	202.20	
M-110	MU1 Ring	7/14/2015	194.03	Supplemental
M-110	MU1 Ring	7/22/2015	198.02	
M-110	MU1 Ring	8/5/2015	201.87	
M-110	MU1 Ring	8/19/2015	200.84	Supplemental
M-110	MU1 Ring	9/1/2015	205.08	
M-110	MU1 Ring	9/23/2015	198.21	
M-111	MU1 Ring	7/8/2015	198.19	
M-111	MU1 Ring	7/14/2015	182.94	Supplemental
M-111	MU1 Ring	7/22/2015	185.95	
M-111	MU1 Ring	8/5/2015	188.69	
M-111	MU1 Ring	8/19/2015	190.09	Supplemental
M-111	MU1 Ring	9/1/2015	190.02	
M-111	MU1 Ring	9/23/2015	181.90	
M-112	MU1 Ring	7/8/2015	207.53	
M-112	MU1 Ring	7/14/2015	191.88	Supplemental
M-112	MU1 Ring	7/22/2015	193.33	
M-112	MU1 Ring	8/5/2015	196.70	
M-112	MU1 Ring	8/19/2015	198.96	Supplemental
M-112	MU1 Ring	9/1/2015	198.40	
M-112	MU1 Ring	9/23/2015	190.03	
M-113	MU1 Ring	7/8/2015	217.58	
M-113	MU1 Ring	7/14/2015	201.77	Supplemental
M-113	MU1 Ring	7/22/2015	204.79	
M-113	MU1 Ring	8/5/2015	201.67	
M-113	MU1 Ring	8/19/2015	208.23	Supplemental
M-113	MU1 Ring	9/1/2015	206.38	
M-113	MU1 Ring	9/23/2015	197.70	
M-114A	MU1 Ring	7/8/2015	187.79	
M-114A	MU1 Ring	7/14/2015	185.59	Supplemental
M-114A	MU1 Ring	7/22/2015	179.04	
M-114A	MU1 Ring	8/5/2015	197.93	
M-114A	MU1 Ring	8/19/2015	196.00	Supplemental
M-114A	MU1 Ring	9/1/2015	184.86	
M-114A	MU1 Ring	9/23/2015	179.68	

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

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-115A	MU1 Ring	7/8/2015	177.84	
M-115A	MU1 Ring	7/14/2015	178.51	Supplemental
M-115A	MU1 Ring	7/22/2015	170.54	
M-115A	MU1 Ring	8/4/2015	199.19	
M-115A	MU1 Ring	8/19/2015	193.84	Supplemental
M-115A	MU1 Ring	8/26/2015	195.66	
M-115A	MU1 Ring	9/1/2015	183.05	
M-115A	MU1 Ring	9/23/2015	178.40	
M-116A	MU1 Ring	7/8/2015	168.79	
M-116A	MU1 Ring	7/14/2015	169.63	Supplemental
M-116A	MU1 Ring	7/22/2015	161.56	
M-116A	MU1 Ring	8/4/2015	191.36	
M-116A	MU1 Ring	8/19/2015	184.71	Supplemental
M-116A	MU1 Ring	8/26/2015	187.28	
M-116A	MU1 Ring	9/1/2015	171.49	
M-116A	MU1 Ring	9/23/2015	171.39	
M-117	MU1 Ring	7/8/2015	180.34	
M-117	MU1 Ring	7/14/2015	183.18	Supplemental
M-117	MU1 Ring	7/22/2015	175.25	
M-117	MU1 Ring	8/4/2015	200.77	
M-117	MU1 Ring	8/19/2015	193.69	Supplemental
M-117	MU1 Ring	8/26/2015	199.60	
M-117	MU1 Ring	9/1/2015	185.49	
M-117	MU1 Ring	9/23/2015	187.30	
M-118	MU1 Ring	7/7/2015	170.98	
M-118	MU1 Ring	7/14/2015	179.50	Supplemental
M-118	MU1 Ring	7/21/2015	169.52	
M-118	MU1 Ring	8/4/2015	188.58	
M-118	MU1 Ring	8/19/2015	183.97	Supplemental
M-118	MU1 Ring	8/26/2015	188.63	
M-118	MU1 Ring	9/1/2015	173.91	
M-118	MU1 Ring	9/23/2015	181.04	
M-119	MU1 Ring	7/7/2015	168.49	
M-119	MU1 Ring	7/14/2015	178.71	Supplemental
M-119	MU1 Ring	7/21/2015	170.70	
M-119	MU1 Ring	8/4/2015	183.50	
M-119	MU1 Ring	8/19/2015	180.57	Supplemental
M-119	MU1 Ring	8/26/2015	186.49	
M-119	MU1 Ring	9/1/2015	165.67	
M-119	MU1 Ring	9/23/2015	182.30	
M-120A	MU1 Ring	7/7/2015	174.33	
M-120A	MU1 Ring	7/14/2015	182.98	Supplemental
M-120A	MU1 Ring	7/21/2015	180.73	
M-120A	MU1 Ring	8/4/2015	178.36	
M-120A	MU1 Ring	8/19/2015	175.50	Supplemental
M-120A	MU1 Ring	8/26/2015	182.41	
M-120A	MU1 Ring	9/1/2015	167.02	
M-120A	MU1 Ring	9/23/2015	184.99	
M-121	MU1 Ring	7/7/2015	189.33	

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

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-121	MU1 Ring	7/14/2015	194.67	Supplemental
M-121	MU1 Ring	7/21/2015	191.61	
M-121	MU1 Ring	8/4/2015	184.50	
M-121	MU1 Ring	8/19/2015	185.00	Supplemental
M-121	MU1 Ring	8/26/2015	186.32	
M-121	MU1 Ring	9/1/2015	176.50	
M-121	MU1 Ring	9/23/2015	185.26	
M-122	MU1 Ring	7/7/2015	192.98	
M-122	MU1 Ring	7/14/2015	195.56	Supplemental
M-122	MU1 Ring	7/21/2015	194.63	
M-122	MU1 Ring	8/4/2015	180.59	
M-122	MU1 Ring	8/19/2015	183.92	Supplemental
M-122	MU1 Ring	8/26/2015	186.33	
M-122	MU1 Ring	9/1/2015	175.47	
M-122	MU1 Ring	9/23/2015	184.90	
M-123	MU1 Ring	7/7/2015	193.28	
M-123	MU1 Ring	7/14/2015	196.43	Supplemental
M-123	MU1 Ring	7/21/2015	195.00	
M-123	MU1 Ring	8/5/2015	174.97	
M-123	MU1 Ring	8/19/2015	180.65	Supplemental
M-123	MU1 Ring	8/26/2015	182.34	
M-123	MU1 Ring	9/1/2015	171.02	
M-123	MU1 Ring	9/23/2015	180.62	
M-124	MU1 Ring	7/7/2015	197.80	
M-124	MU1 Ring	7/14/2015	201.57	Supplemental
M-124	MU1 Ring	7/21/2015	199.54	
M-124	MU1 Ring	8/5/2015	176.30	
M-124	MU1 Ring	8/19/2015	182.59	Supplemental
M-124	MU1 Ring	8/26/2015	183.80	
M-124	MU1 Ring	9/1/2015	173.13	
M-124	MU1 Ring	9/23/2015	182.22	
M-125	MU1 Ring	7/7/2015	187.41	
M-125	MU1 Ring	7/14/2015	191.11	Supplemental
M-125	MU1 Ring	7/21/2015	188.67	
M-125	MU1 Ring	8/5/2015	169.30	
M-125	MU1 Ring	8/19/2015	173.05	Supplemental
M-125	MU1 Ring	8/26/2015	173.80	
M-125	MU1 Ring	9/1/2015	165.98	
M-125	MU1 Ring	9/23/2015	172.31	
M-126	MU1 Ring	7/7/2015	188.50	
M-126	MU1 Ring	7/14/2015	190.81	Supplemental
M-126	MU1 Ring	7/21/2015	189.23	
M-126	MU1 Ring	8/5/2015	171.22	
M-126	MU1 Ring	8/19/2015	175.23	Supplemental
M-126	MU1 Ring	8/26/2015	176.13	
M-126	MU1 Ring	9/1/2015	170.14	
M-126	MU1 Ring	9/23/2015	175.47	
M-127	MU1 Ring	7/7/2015	185.03	
M-127	MU1 Ring	7/14/2015	181.68	Supplemental

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

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-127	MU1 Ring	7/21/2015	189.29	
M-127	MU1 Ring	8/5/2015	189.48	
M-127	MU1 Ring	8/19/2015	187.09	Supplemental
M-127	MU1 Ring	8/26/2015	185.73	
M-127	MU1 Ring	9/1/2015	191.33	
M-127	MU1 Ring	9/23/2015	190.41	
M-128	MU1 Ring	7/7/2015	185.73	
M-128	MU1 Ring	7/14/2015	182.01	Supplemental
M-128	MU1 Ring	7/21/2015	190.08	
M-128	MU1 Ring	8/5/2015	191.10	
M-128	MU1 Ring	8/19/2015	188.50	Supplemental
M-128	MU1 Ring	8/26/2015	186.60	
M-128	MU1 Ring	9/1/2015	193.42	
M-128	MU1 Ring	9/23/2015	193.45	
MO-101	MU1 Overlying	7/8/2015	165.29	
MO-101	MU1 Overlying	7/23/2015	164.01	
MO-101	MU1 Overlying	8/6/2015	163.19	
MO-101	MU1 Overlying	8/20/2015	163.63	
MO-101	MU1 Overlying	9/1/2015	164.33	
MO-101	MU1 Overlying	9/24/2015	165.53	
MO-102	MU1 Overlying	7/8/2015	169.98	
MO-102	MU1 Overlying	7/23/2015	168.11	
MO-102	MU1 Overlying	8/6/2015	168.04	
MO-102	MU1 Overlying	8/20/2015	167.49	
MO-102	MU1 Overlying	9/2/2015	168.60	
MO-102	MU1 Overlying	9/24/2015	169.17	
MO-103	MU1 Overlying	7/9/2015	162.71	
MO-103	MU1 Overlying	7/23/2015	162.71	
MO-103	MU1 Overlying	8/6/2015	160.90	
MO-103	MU1 Overlying	8/20/2015	161.41	
MO-103	MU1 Overlying	9/2/2015	161.43	
MO-103	MU1 Overlying	9/24/2015	163.18	
MO-104	MU1 Overlying	7/9/2015	177.50	
MO-104	MU1 Overlying	7/23/2015	178.02	
MO-104	MU1 Overlying	8/6/2015	173.04	
MO-104	MU1 Overlying	8/20/2015	172.69	
MO-104	MU1 Overlying	9/2/2015	171.12	
MO-104	MU1 Overlying	9/24/2015	175.03	
MO-105	MU1 Overlying	7/9/2015	172.58	
MO-105	MU1 Overlying	7/23/2015	172.83	
MO-105	MU1 Overlying	8/6/2015	167.31	
MO-105	MU1 Overlying	8/20/2015	169.63	
MO-105	MU1 Overlying	9/2/2015	167.99	
MO-105	MU1 Overlying	9/24/2015	167.55	
MO-106	MU1 Overlying	7/9/2015	167.02	
MO-106	MU1 Overlying	7/23/2015	166.71	
MO-106	MU1 Overlying	8/6/2015	164.43	
MO-106	MU1 Overlying	8/20/2015	164.90	
MO-106	MU1 Overlying	9/2/2015	170.36	

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

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
MO-106	MU1 Overlying	9/24/2015	163.48	
MO-107	MU1 Overlying	7/9/2015	159.10	
MO-107	MU1 Overlying	7/23/2015	157.17	
MO-107	MU1 Overlying	8/6/2015	158.13	
MO-107	MU1 Overlying	8/20/2015	156.94	
MO-107	MU1 Overlying	9/2/2015	156.18	
MO-107	MU1 Overlying	9/24/2015	158.30	
MO-108	MU1 Overlying	7/9/2015	162.34	
MO-108	MU1 Overlying	7/23/2015	155.02	
MO-108	MU1 Overlying	8/6/2015	156.87	
MO-108	MU1 Overlying	8/20/2015	154.78	
MO-108	MU1 Overlying	9/2/2015	153.60	
MO-108	MU1 Overlying	9/24/2015	156.98	
MO-109	MU1 Overlying	7/9/2015	172.28	
MO-109	MU1 Overlying	7/21/2015	170.40	
MO-109	MU1 Overlying	8/6/2015	171.23	
MO-109	MU1 Overlying	8/20/2015	171.38	
MO-109	MU1 Overlying	9/2/2015	170.93	
MO-109	MU1 Overlying	9/24/2015	172.20	
MO-110	MU1 Overlying	7/9/2015	163.72	
MO-110	MU1 Overlying	7/23/2015	155.64	
MO-110	MU1 Overlying	8/6/2013	163.00	
MO-110	MU1 Overlying	8/20/2015	163.34	
MO-110	MU1 Overlying	9/2/2015	158.92	
MO-110	MU1 Overlying	9/24/2015	161.72	
MO-111	MU1 Overlying	7/9/2015	164.37	
MO-111	MU1 Overlying	7/24/2015	155.63	
MO-111	MU1 Overlying	8/6/2015	163.10	
MO-111	MU1 Overlying	8/20/2015	163.32	
MO-111	MU1 Overlying	9/2/2015	158.67	
MO-111	MU1 Overlying	9/24/2015	161.68	
MO-112	MU1 Overlying	7/9/2015	165.63	
MO-112	MU1 Overlying	7/24/2013	159.64	
MO-112	MU1 Overlying	8/6/2015	165.79	
MO-112	MU1 Overlying	8/20/2015	166.09	
MO-112	MU1 Overlying	9/2/2015	161.88	
MO-112	MU1 Overlying	9/24/2015	165.13	
MO-113	MU1 Overlying	7/9/2015	163.63	
MO-113	MU1 Overlying	7/24/2015	159.29	
MO-113	MU1 Overlying	8/6/2015	160.51	
MO-113	MU1 Overlying	8/20/2015	162.30	
MO-113	MU1 Overlying	9/2/2015	160.70	
MO-113	MU1 Overlying	9/24/2015	161.18	
MO-LC0254	MU1 Overlying	7/9/2015	165.59	
MO-LC0254	MU1 Overlying	8/6/2015	163.24	
MO-LC0254	MU1 Overlying	8/20/2015	163.92	
MO-LC0254	MU1 Overlying	9/2/2015	166.33	
MO-LC0254	MU1 Overlying	9/24/2015	167.23	
MU-101	MU1 Underlying	7/8/2015	192.94	

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

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
MU-101	MU1 Underlying	7/23/2015	195.03	
MU-101	MU1 Underlying	8/6/2015	195.20	
MU-101	MU1 Underlying	8/20/2015	194.69	
MU-101	MU1 Underlying	9/2/2015	196.24	
MU-101	MU1 Underlying	9/24/2015	197.16	
MU-102	MU1 Underlying	7/8/2015	194.40	
MU-102	MU1 Underlying	7/23/2015	196.94	
MU-102	MU1 Underlying	8/6/2015	197.26	
MU-102	MU1 Underlying	8/20/2015	196.08	
MU-102	MU1 Underlying	9/2/2015	198.22	
MU-102	MU1 Underlying	9/24/2015	198.90	
MU-103	MU1 Underlying	7/9/2015	190.83	
MU-103	MU1 Underlying	7/23/2015	192.87	
MU-103	MU1 Underlying	8/6/2015	193.30	
MU-103	MU1 Underlying	8/20/2015	192.02	
MU-103	MU1 Underlying	9/2/2015	194.42	
MU-103	MU1 Underlying	9/24/2015	195.22	
MU-104	MU1 Underlying	7/9/2015	198.81	
MU-104	MU1 Underlying	7/13/2015	199.03	Supplemental
MU-104	MU1 Underlying	7/21/2015	199.91	
MU-104	MU1 Underlying	8/4/2015	201.43	
MU-104	MU1 Underlying	8/20/2015	196.51	Supplemental
MU-104	MU1 Underlying	8/26/2015	196.95	
MU-104	MU1 Underlying	9/2/2015	201.72	
MU-104	MU1 Underlying	9/9/2015	199.28	Supplemental
MU-104	MU1 Underlying	9/24/2015	198.77	
MU-105	MU1 Underlying	7/9/2015	210.12	
MU-105	MU1 Underlying	7/23/2015	209.09	
MU-105	MU1 Underlying	8/6/2015	207.18	
MU-105	MU1 Underlying	8/20/2015	206.92	
MU-105	MU1 Underlying	9/2/2015	205.89	
MU-105	MU1 Underlying	9/24/2015	203.24	
MU-106	MU1 Underlying	7/9/2015	204.61	
MU-106	MU1 Underlying	7/23/2015	202.78	
MU-106	MU1 Underlying	8/6/2015	200.83	
MU-106	MU1 Underlying	8/20/2015	200.26	
MU-106	MU1 Underlying	9/2/2015	199.23	
MU-106	MU1 Underlying	9/24/2015	196.80	
MU-107	MU1 Underlying	7/9/2015	202.02	
MU-107	MU1 Underlying	7/23/2015	199.49	
MU-107	MU1 Underlying	8/6/2013	198.43	
MU-107	MU1 Underlying	8/20/2015	197.80	
MU-107	MU1 Underlying	9/2/2015	197.83	
MU-107	MU1 Underlying	9/24/2015	196.00	
KPW-2	MU1 Underlying	7/9/2015	198.36	
KPW-2	MU1 Underlying	7/23/2015	199.96	
KPW-2	MU1 Underlying	8/6/2013	199.43	
KPW-2	MU1 Underlying	8/20/2015	199.40	
KPW-2	MU1 Underlying	9/2/2015	198.44	

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

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
KPW-2	MU1 Underlying	9/24/2015	197.59	
MU-109	MU1 Underlying	7/7/2015	206.20	
MU-109	MU1 Underlying	7/11/2015	201.02	Supplemental
MU-109	MU1 Underlying	7/21/2015	202.65	
MU-109	MU1 Underlying	8/4/2015	204.88	
MU-109	MU1 Underlying	8/18/2015	205.38	Supplemental
MU-109	MU1 Underlying	8/26/2015	202.80	
MU-109	MU1 Underlying	9/2/2015	205.39	
MU-109	MU1 Underlying	9/9/2015	207.42	Supplemental
MU-109	MU1 Underlying	9/22/2015	203.88	
MU-110	MU1 Underlying	7/9/2015	203.78	
MU-110	MU1 Underlying	7/24/2015	203.11	
MU-110	MU1 Underlying	8/6/2013	203.88	
MU-110	MU1 Underlying	8/20/2015	205.12	
MU-110	MU1 Underlying	9/2/2015	203.33	
MU-110	MU1 Underlying	9/24/2015	202.73	
MU-111	MU1 Underlying	7/9/2015	203.19	
MU-111	MU1 Underlying	7/24/2015	201.96	
MU-111	MU1 Underlying	8/6/2013	202.13	
MU-111	MU1 Underlying	8/20/2015	201.90	
MU-111	MU1 Underlying	9/2/2015	200.99	
MU-111	MU1 Underlying	9/24/2015	201.77	
MU-112	MU1 Underlying	7/9/2015	203.63	
MU-112	MU1 Underlying	7/24/2015	201.79	
MU-112	MU1 Underlying	8/6/2015	203.60	
MU-112	MU1 Underlying	8/20/2015	203.59	
MU-112	MU1 Underlying	9/2/2015	202.92	
MU-112	MU1 Underlying	9/24/2015	202.68	
MU-113	MU1 Underlying	7/9/2015	192.62	
MU-113	MU1 Underlying	7/24/2015	189.88	
MU-113	MU1 Underlying	8/6/2015	191.73	
MU-113	MU1 Underlying	8/20/2015	191.35	
MU-113	MU1 Underlying	9/2/2015	190.13	
MU-113	MU1 Underlying	9/24/2015	190.41	
TW1-1	MU1 Trend	7/9/2015	167.43	
TW1-1	MU1 Trend	7/14/2015	166.91	
TW1-1	MU1 Trend	8/6/2013	174.04	
TW1-1	MU1 Trend	8/20/2015	174.89	
TW1-1	MU1 Trend	9/2/2015	174.39	
TW1-1	MU1 Observation	9/24/2015	166.67	
OW1-1	MU1 Observation	7/9/2015	192.39	
OW1-1	MU1 Observation	8/6/2015	192.20	
OW1-1	MU1 Observation	8/20/2015	190.69	
OW1-1	MU1 Observation	9/2/2015	190.82	
OW1-1	MU1 Observation	9/24/2015	190.63	
LC15M	Regional	8/14/2015	162.00	
LC16M	Regional	8/14/2015	199.50	
LC17M	Regional	8/14/2015	193.88	
LC18M	Regional	8/14/2015	169.97	

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

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
LC19M	Regional	8/14/2015	206.72	
LC20M	Regional	8/14/2015	208.30	
LC21M	Regional	8/14/2015	198.81	
LC22MA	Regional	8/14/2015	210.80	
LC23M	Regional	8/14/2015	221.56	
LC24M	Regional	8/14/2015	195.35	
LC25MA	Regional	8/14/2015	169.68	
LC26M	Regional	8/18/2015	180.36	
LC27M	Regional	8/17/2015	194.64	
LC28M	Regional	8/14/2015	155.80	
LC29M	Regional	8/14/2015	158.87	
LC30M	Regional	8/14/2015	200.00	
LC31M	Regional	8/14/2015	144.55	
MB-01	Regional	8/14/2015	236.32	
MB-02	Regional	8/14/2015	243.97	
MB-03B	Regional	8/14/2015	265.79	
MB-04	Regional	8/14/2015	277.36	
MB-05	Regional	8/14/2015	144.96	
MB-06	Regional	8/14/2015	143.30	
MB-07	Regional	8/14/2015	ND	
MB-08	Regional	8/17/2015	172.28	
MB-09	Regional	8/17/2015	185.57	
MB-10	Regional	8/17/2015	171.29	

ft-bmp: feet below measuring point

MU1: Mine Unit 1

ND: No water detected

Attachment 4: MU1 Water Quality Data
2nd Quarter 2015
Lost Creek ISR Project PT788

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL†	% Chg	Assay	UCL†	% Chg	Assay	UCL†	% Chg	
M-101	MU1 Ring	7/7/2015	- -	120	186.2	-35	5.9	20.5	-71	679	1012.4	-33	
M-101	MU1 Ring	7/22/2015	15	117	186.2	-37	6.1	20.5	-70	669	1012.4	-34	
M-101	MU1 Ring	8/5/2015	14	123	186.2	-34	5.7	20.5	-72	667	1012.4	-34	
M-101	MU1 Ring	8/19/2015	14	127	186.2	-32	4.9	20.5	-76	672	1012.4	-34	
M-101	MU1 Ring	9/1/2015	13	124	186.2	-34	5.9	20.5	-71	665	1012.4	-34	
M-101	MU1 Ring	9/23/2015	22	115	186.2	-38	6.0	20.5	-71	639	1012.4	-37	
M-102	MU1 Ring	7/7/2015	- -	141	186.2	-24	6.1	20.5	-70	814	1012.4	-20	
M-102	MU1 Ring	7/22/2015	15	142	186.2	-24	6.3	20.5	-69	811	1012.4	-20	
M-102	MU1 Ring	8/5/2015	14	139	186.2	-25	5.9	20.5	-71	803	1012.4	-21	
M-102	MU1 Ring	8/19/2015	14	141	186.2	-24	5.0	20.5	-76	814	1012.4	-20	
M-102	MU1 Ring	9/1/2015	13	141	186.2	-24	6.1	20.5	-70	807	1012.4	-20	
M-102	MU1 Ring	9/23/2015	22	138	186.2	-26	6.4	20.5	-69	802	1012.4	-21	
M-103A	MU1 Ring	7/8/2015	- -	140	186.2	-25	5.8	20.5	-72	818	1012.4	-19	
M-103A	MU1 Ring	7/22/2015	14	140	186.2	-25	6.6	20.5	-68	828	1012.4	-18	
M-103A	MU1 Ring	8/5/2015	14	137	186.2	-26	6.1	20.5	-70	819	1012.4	-19	
M-103A	MU1 Ring	8/19/2015	14	140	186.2	-25	5.3	20.5	-74	830	1012.4	-18	
M-103A	MU1 Ring	9/1/2015	13	140	186.2	-25	6.2	20.5	-70	821	1012.4	-19	
M-103A	MU1 Ring	9/23/2015	22	138	186.2	-26	7.2	20.5	-65	814	1012.4	-20	
M-104	MU1 Ring	7/8/2015	- -	148	186.2	-20	6.6	20.5	-68	807	1012.4	-20	
M-104	MU1 Ring	7/22/2015	14	145	186.2	-22	6.9	20.5	-67	813	1012.4	-20	
M-104	MU1 Ring	8/5/2015	14	141	186.2	-24	6.5	20.5	-68	804	1012.4	-21	
M-104	MU1 Ring	8/19/2015	14	141	186.2	-24	5.4	20.5	-74	819	1012.4	-19	
M-104	MU1 Ring	9/2/2015	14	144	186.2	-23	7.0	20.5	-66	806	1012.4	-20	
M-104	MU1 Ring	9/23/2015	21	146	186.2	-22	6.8	20.5	-67	803	1012.4	-21	
M-105	MU1 Ring	7/8/2015	- -	133	186.2	-29	6.3	20.5	-69	731	1012.4	-28	
M-105	MU1 Ring	7/22/2015	14	133	186.2	-29	6.7	20.5	-68	733	1012.4	-28	
M-105	MU1 Ring	8/5/2015	14	130	186.2	-30	6.2	20.5	-70	729	1012.4	-28	
M-105	MU1 Ring	8/19/2015	14	128	186.2	-31	5.4	20.5	-74	731	1012.4	-28	
M-105	MU1 Ring	9/2/2015	14	131	186.2	-30	6.8	20.5	-67	730	1012.4	-28	
M-105	MU1 Ring	9/23/2015	21	130	186.2	-30	6.4	20.5	-69	676	1012.4	-33	
M-106	MU1 Ring	7/8/2015	- -	126	186.2	-33	6.2	20.5	-70	690	1012.4	-32	
M-106	MU1 Ring	7/22/2015	14	122	186.2	-35	6.6	20.5	-68	702	1012.4	-31	
M-106	MU1 Ring	8/5/2015	14	127	186.2	-32	6.1	20.5	-70	691	1012.4	-32	
M-106	MU1 Ring	8/19/2015	14	126	186.2	-32	5.4	20.5	-74	684	1012.4	-32	
M-106	MU1 Ring	9/2/2015	14	126	186.2	-32	6.7	20.5	-67	679	1012.4	-33	
M-106	MU1 Ring	9/23/2015	21	118	186.2	-36	5.8	20.5	-72	608	1012.4	-40	
M-107	MU1 Ring	7/8/2015	- -	125	186.2	-33	6.3	20.5	-69	675	1012.4	-33	
M-107	MU1 Ring	7/22/2015	14	116	186.2	-38	6.7	20.5	-67	678	1012.4	-33	
M-107	MU1 Ring	8/5/2015	14	124	186.2	-34	6.2	20.5	-70	679	1012.4	-33	
M-107	MU1 Ring	8/19/2015	14	126	186.2	-33	5.9	20.5	-71	677	1012.4	-33	
M-107	MU1 Ring	9/2/2015	14	123	186.2	-34	6.9	20.5	-66	680	1012.4	-33	
M-107	MU1 Ring	9/23/2015	21	120	186.2	-36	6.0	20.5	-71	664	1012.4	-34	
M-108	MU1 Ring	7/8/2015	- -	117	186.2	-37	6.1	20.5	-70	542	1012.4	-46	
M-108	MU1 Ring	7/22/2015	14	114	186.2	-39	6.8	20.5	-67	545	1012.4	-46	
M-108	MU1 Ring	8/5/2015	14	108	186.2	-42	6.5	20.5	-68	544	1012.4	-46	
M-108	MU1 Ring	8/19/2015	14	110	186.2	-41	5.8	20.5	-72	549	1012.4	-46	
M-108	MU1 Ring	9/2/2015	14	109	186.2	-41	6.6	20.5	-68	547	1012.4	-46	
M-108	MU1 Ring	9/23/2015	21	117	186.2	-37	6.1	20.5	-70	540	1012.4	-47	
M-109	MU1 Ring	7/8/2015	- -	111	186.2	-41	6.1	20.5	-70	553	1012.4	-45	
M-109	MU1 Ring	7/22/2015	14	110	186.2	-41	6.5	20.5	-68	554	1012.4	-45	
M-109	MU1 Ring	8/5/2015	14	110	186.2	-41	6.1	20.5	-70	562	1012.4	-44	
M-109	MU1 Ring	8/19/2015	14	108	186.2	-42	5.2	20.5	-75	558	1012.4	-45	
M-109	MU1 Ring	9/2/2015	14	109	186.2	-41	5.9	20.5	-71	557	1012.4	-45	
M-109	MU1 Ring	9/23/2015	21	110	186.2	-41	6.6	20.5	-68	549	1012.4	-46	
M-110	MU1 Ring	7/8/2015	- -	109	186.2	-41	6.9	20.5	-66	547	1012.4	-46	
M-110	MU1 Ring	7/22/2015	14	106	186.2	-43	7.5	20.5	-64	568	1012.4	-44	
M-110	MU1 Ring	8/5/2015	14	118	186.2	-37	6.8	20.5	-67	572	1012.4	-44	
M-110	MU1 Ring	8/19/2015	14	111	186.2	-41	6.3	20.5	-69	572	1012.4	-44	
M-110	MU1 Ring	9/2/2015	14	114	186.2	-39	6.7	20.5	-67	584	1012.4	-42	
M-110	MU1 Ring	9/23/2015	21	118	186.2	-37	6.9	20.5	-66	541	1012.4	-47	
M-111	MU1 Ring	7/8/2015	- -	119	186.2	-36	6.4	20.5	-69	550	1012.4	-46	
M-111	MU1 Ring	7/22/2015	14	112	186.2	-40	5.3	20.5	-74	552	1012.4	-45	
M-111	MU1 Ring	8/5/2015	14	116	186.2	-38	5.5	20.5	-73	552	1012.4	-45	
M-111	MU1 Ring	8/19/2015	14	112	186.2	-40	5.7	20.5	-72	542	1012.4	-46	
M-111	MU1 Ring	9/2/2015	14	115	186.2	-38	5.9	20.5	-71	545	1012.4	-46	
M-111	MU1 Ring	9/23/2015	21	115	186.2	-38	5.8	20.5	-72	551	1012.4	-46	

Attachment 4: MU1 Water Quality Data
2nd Quarter 2015
Lost Creek ISR Project PT788

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL†	% Chg	Assay	UCL†	% Chg	Assay	UCL†	% Chg	
M-112	MU1 Ring	7/8/2015	- -	119	186.2	-36	6.5	20.5	-68	550	1012.4	-46	
M-112	MU1 Ring	7/22/2015	14	109	186.2	-41	5.5	20.5	-73	555	1012.4	-45	
M-112	MU1 Ring	8/5/2015	14	117	186.2	-37	5.6	20.5	-73	548	1012.4	-46	
M-112	MU1 Ring	8/19/2015	14	118	186.2	-37	5.5	20.5	-73	553	1012.4	-45	
M-112	MU1 Ring	9/2/2015	14	118	186.2	-37	5.9	20.5	-71	549	1012.4	-46	
M-112	MU1 Ring	9/23/2015	21	122	186.2	-35	5.6	20.5	-73	544	1012.4	-46	
M-113	MU1 Ring	7/8/2015	- -	113	186.2	-39	5.5	20.5	-73	513	1012.4	-49	
M-113	MU1 Ring	7/22/2015	14	110	186.2	-41	5.3	20.5	-74	514	1012.4	-49	
M-113	MU1 Ring	8/5/2015	14	102	186.2	-45	5.3	20.5	-74	507	1012.4	-50	
M-113	MU1 Ring	8/19/2015	14	103	186.2	-45	5.3	20.5	-74	514	1012.4	-49	
M-113	MU1 Ring	9/1/2015	13	101	186.2	-46	5.6	20.5	-73	508	1012.4	-50	
M-113	MU1 Ring	9/22/2015	21	108	186.2	-42	5.6	20.5	-73	508	1012.4	-50	
M-114A	MU1 Ring	7/8/2015	- -	110	186.2	-41	5.1	20.5	-75	522	1012.4	-48	
M-114A	MU1 Ring	7/22/2015	14	125	186.2	-33	5.4	20.5	-74	527	1012.4	-48	
M-114A	MU1 Ring	8/5/2015	14	109	186.2	-41	5.3	20.5	-74	517	1012.4	-49	
M-114A	MU1 Ring	8/19/2015	14	108	186.2	-42	5.2	20.5	-75	527	1012.4	-48	
M-114A	MU1 Ring	9/1/2015	13	111	186.2	-40	5.3	20.5	-74	519	1012.4	-49	
M-114A	MU1 Ring	9/22/2015	21	112	186.2	-40	5.8	20.5	-72	511	1012.4	-50	
M-115A	MU1 Ring	7/8/2015	- -	105	186.2	-44	5.1	20.5	-75	498	1012.4	-51	
M-115A	MU1 Ring	7/22/2015	14	101	186.2	-46	5.2	20.5	-75	499	1012.4	-51	
M-115A	MU1 Ring	8/4/2015	13	107	186.2	-43	5.4	20.5	-74	493	1012.4	-51	
M-115A	MU1 Ring	8/19/2015	15	111	186.2	-40	5.1	20.5	-75	498	1012.4	-51	
M-115A	MU1 Ring	9/1/2015	13	109	186.2	-41	5.3	20.5	-74	495	1012.4	-51	
M-115A	MU1 Ring	9/22/2015	21	106	186.2	-43	5.9	20.5	-71	475	1012.4	-53	
M-116A	MU1 Ring	7/8/2015	- -	113	186.2	-39	5.1	20.5	-75	494	1012.4	-51	
M-116A	MU1 Ring	7/22/2015	14	108	186.2	-42	5.3	20.5	-74	495	1012.4	-51	
M-116A	MU1 Ring	8/4/2015	13	104	186.2	-44	5.3	20.5	-74	491	1012.4	-52	
M-116A	MU1 Ring	8/19/2015	15	104	186.2	-44	5.2	20.5	-75	490	1012.4	-52	
M-116A	MU1 Ring	9/1/2015	13	107	186.2	-43	5.5	20.5	-73	492	1012.4	-51	
M-116A	MU1 Ring	9/22/2015	21	110	186.2	-41	5.7	20.5	-72	481	1012.4	-52	
M-117	MU1 Ring	7/8/2015	- -	111	186.2	-40	5.1	20.5	-75	484	1012.4	-52	
M-117	MU1 Ring	7/22/2015	14	109	186.2	-41	5.4	20.5	-74	487	1012.4	-52	
M-117	MU1 Ring	8/4/2015	13	110	186.2	-41	5.3	20.5	-74	482	1012.4	-52	
M-117	MU1 Ring	8/19/2015	15	107	186.2	-43	5.2	20.5	-75	482	1012.4	-52	
M-117	MU1 Ring	9/1/2015	13	111	186.2	-41	5.2	20.5	-74	479	1012.4	-53	
M-117	MU1 Ring	9/22/2015	21	112	186.2	-40	5.5	20.5	-73	469	1012.4	-54	
M-118	MU1 Ring	7/7/2015	- -	111	186.2	-41	5.7	20.5	-72	504	1012.4	-50	
M-118	MU1 Ring	7/21/2015	14	108	186.2	-42	5.7	20.5	-72	501	1012.4	-51	
M-118	MU1 Ring	8/4/2015	14	103	186.2	-44	5.3	20.5	-74	501	1012.4	-51	
M-118	MU1 Ring	8/18/2015	14	105	186.2	-43	5.3	20.5	-74	492	1012.4	-51	
M-118	MU1 Ring	9/1/2015	14	104	186.2	-44	5.1	20.5	-75	493	1012.4	-51	
M-118	MU1 Ring	9/22/2015	21	108	186.2	-42	5.6	20.5	-73	483	1012.4	-52	
M-119	MU1 Ring	7/7/2015	- -	133	186.2	-29	6.0	20.5	-71	464	1012.4	-54	
M-119	MU1 Ring	7/21/2015	14	120	186.2	-36	6.0	20.5	-71	473	1012.4	-53	
M-119	MU1 Ring	8/4/2015	14	114	186.2	-39	5.6	20.5	-73	476	1012.4	-53	
M-119	MU1 Ring	8/18/2015	14	115	186.2	-38	5.5	20.5	-73	477	1012.4	-53	
M-119	MU1 Ring	9/1/2015	14	118	186.2	-36	5.3	20.5	-74	477	1012.4	-53	
M-119	MU1 Ring	9/22/2015	21	120	186.2	-36	5.6	20.5	-73	470	1012.4	-54	
M-120A	MU1 Ring	7/7/2015	- -	114	186.2	-39	6.0	20.5	-71	480	1012.4	-53	
M-120A	MU1 Ring	7/21/2015	14	107	186.2	-43	6.3	20.5	-69	485	1012.4	-52	
M-120A	MU1 Ring	8/4/2015	14	113	186.2	-39	5.8	20.5	-72	488	1012.4	-52	
M-120A	MU1 Ring	8/18/2015	14	107	186.2	-43	5.6	20.5	-73	486	1012.4	-52	
M-120A	MU1 Ring	9/1/2015	14	108	186.2	-42	5.6	20.5	-73	485	1012.4	-52	
M-120A	MU1 Ring	9/23/2015	22	112	186.2	-40	5.9	20.5	-71	485	1012.4	-52	
M-121	MU1 Ring	7/7/2015	- -	115	186.2	-38	5.9	20.5	-71	513	1012.4	-49	
M-121	MU1 Ring	7/21/2015	14	113	186.2	-39	6.0	20.5	-71	517	1012.4	-49	
M-121	MU1 Ring	8/4/2015	14	112	186.2	-40	5.7	20.5	-72	511	1012.4	-50	
M-121	MU1 Ring	8/18/2015	14	117	186.2	-37	5.3	20.5	-74	513	1012.4	-49	
M-121	MU1 Ring	9/1/2015	14	116	186.2	-38	5.2	20.5	-75	509	1012.4	-50	
M-121	MU1 Ring	9/23/2015	22	115	186.2	-38	6.1	20.5	-70	506	1012.4	-50	
M-122	MU1 Ring	7/7/2015	- -	120	186.2	-36	5.9	20.5	-71	498	1012.4	-51	
M-122	MU1 Ring	7/21/2015	14	114	186.2	-39	6.0	20.5	-71	500	1012.4	-51	
M-122	MU1 Ring	8/4/2015	14	118	186.2	-37	5.4	20.5	-73	502	1012.4	-50	
M-122	MU1 Ring	8/18/2015	14	116	186.2	-38	5.2	20.5	-74	499	1012.4	-51	
M-122	MU1 Ring	9/1/2015	14	119	186.2	-36	5.2	20.5	-74	504	1012.4	-50	
M-122	MU1 Ring	9/23/2015	22	116	186.2	-38	6.3	20.5	-69	494	1012.4	-51	

Attachment 4: MU1 Water Quality Data
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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†	% Chg	Assay	UCL†	% Chg	Assay	UCL†	% Chg	
M-123	MU1 Ring	7/7/2015	- -	122	186.2	-34	5.9	20.5	-71	493	1012.4	-51	
M-123	MU1 Ring	7/21/2015	14	110	186.2	-41	5.8	20.5	-72	494	1012.4	-51	
M-123	MU1 Ring	8/5/2015	15	120	186.2	-35	5.3	20.5	-74	494	1012.4	-51	
M-123	MU1 Ring	8/18/2015	13	112	186.2	-40	5.3	20.5	-74	492	1012.4	-51	
M-123	MU1 Ring	9/1/2015	14	115	186.2	-38	5.1	20.5	-75	489	1012.4	-52	
M-123	MU1 Ring	9/23/2015	22	121	186.2	-35	5.8	20.5	-72	487	1012.4	-52	
M-124	MU1 Ring	7/7/2015	- -	118	186.2	-37	5.0	20.5	-76	466	1012.4	-54	
M-124	MU1 Ring	7/21/2015	14	113	186.2	-39	5.9	20.5	-71	467	1012.4	-54	
M-124	MU1 Ring	8/5/2015	15	111	186.2	-40	5.0	20.5	-76	468	1012.4	-54	
M-124	MU1 Ring	8/18/2015	13	113	186.2	-39	5.1	20.5	-75	464	1012.4	-54	
M-124	MU1 Ring	9/1/2015	14	111	186.2	-41	5.1	20.5	-75	461	1012.4	-54	
M-124	MU1 Ring	9/23/2015	22	114	186.2	-39	5.3	20.5	-74	458	1012.4	-55	
M-125	MU1 Ring	7/7/2015	- -	117	186.2	-37	5.9	20.5	-71	543	1012.4	-46	
M-125	MU1 Ring	7/21/2015	14	114	186.2	-39	6.7	20.5	-67	540	1012.4	-47	
M-125	MU1 Ring	8/5/2015	15	109	186.2	-42	6.0	20.5	-71	547	1012.4	-46	
M-125	MU1 Ring	8/18/2015	13	115	186.2	-38	6.0	20.5	-71	542	1012.4	-46	
M-125	MU1 Ring	9/1/2015	14	116	186.2	-38	5.9	20.5	-71	542	1012.4	-46	
M-125	MU1 Ring	9/23/2015	22	116	186.2	-38	6.0	20.5	-71	538	1012.4	-47	
M-126	MU1 Ring	7/7/2015	- -	111	186.2	-41	6.2	20.5	-70	545	1012.4	-46	
M-126	MU1 Ring	7/21/2015	14	106	186.2	-43	7.0	20.5	-66	541	1012.4	-47	
M-126	MU1 Ring	8/5/2015	15	121	186.2	-35	6.2	20.5	-70	532	1012.4	-47	
M-126	MU1 Ring	8/19/2015	14	114	186.2	-39	5.9	20.5	-71	525	1012.4	-48	
M-126	MU1 Ring	9/1/2015	13	106	186.2	-43	5.6	20.5	-73	531	1012.4	-48	
M-126	MU1 Ring	9/23/2015	22	108	186.2	-42	6.0	20.5	-71	519	1012.4	-49	
M-127	MU1 Ring	7/7/2015	- -	118	186.2	-37	6.1	20.5	-70	548	1012.4	-46	
M-127	MU1 Ring	7/21/2015	14	112	186.2	-40	6.8	20.5	-67	539	1012.4	-47	
M-127	MU1 Ring	8/5/2015	15	112	186.2	-40	6.0	20.5	-71	538	1012.4	-47	
M-127	MU1 Ring	8/19/2015	14	110	186.2	-41	5.8	20.5	-72	536	1012.4	-47	
M-127	MU1 Ring	9/1/2015	13	116	186.2	-38	5.7	20.5	-72	534	1012.4	-47	
M-127	MU1 Ring	9/23/2015	22	113	186.2	-39	6.6	20.5	-68	524	1012.4	-48	
M-128	MU1 Ring	7/7/2015	- -	121	186.2	-35	5.8	20.5	-72	557	1012.4	-45	
M-128	MU1 Ring	7/21/2015	14	108	186.2	-42	5.8	20.5	-72	554	1012.4	-45	
M-128	MU1 Ring	8/5/2015	15	111	186.2	-40	5.6	20.5	-73	552	1012.4	-45	
M-128	MU1 Ring	8/19/2015	14	113	186.2	-40	5.9	20.5	-71	556	1012.4	-45	
M-128	MU1 Ring	9/1/2015	13	118	186.2	-37	5.3	20.5	-74	554	1012.4	-45	
M-128	MU1 Ring	9/23/2015	22	115	186.2	-38	6.5	20.5	-68	548	1012.4	-46	
MO-101	MU1 Overlying	7/8/2015	- -	107	182.1	-41	7.4	21.4	-65	640	921.7	-31	
MO-101	MU1 Overlying	7/23/2015	15	106	182.1	-42	8.1	21.4	-62	635	921.7	-31	
MO-101	MU1 Overlying	8/6/2015	14	112	182.1	-39	7.1	21.4	-67	633	921.7	-31	
MO-101	MU1 Overlying	8/20/2015	14	107	182.1	-41	7.5	21.4	-65	626	921.7	-32	
MO-101	MU1 Overlying	9/2/2015	13	115	182.1	-37	7.9	21.4	-63	635	921.7	-31	
MO-101	MU1 Overlying	9/24/2015	22	110	182.1	-39	9.5	21.4	-56	612	921.7	-34	
MO-102	MU1 Overlying	7/8/2015	- -	111	182.1	-39	6.6	21.4	-69	590	921.7	-36	
MO-102	MU1 Overlying	7/23/2015	15	102	182.1	-44	7.1	21.4	-67	585	921.7	-37	
MO-102	MU1 Overlying	8/6/2015	14	102	182.1	-44	6.4	21.4	-70	583	921.7	-37	
MO-102	MU1 Overlying	8/20/2015	14	106	182.1	-42	6.7	21.4	-69	583	921.7	-37	
MO-102	MU1 Overlying	9/2/2015	13	104	182.1	-43	6.7	21.4	-68	586	921.7	-36	
MO-102	MU1 Overlying	9/24/2015	22	103	182.1	-43	7.2	21.4	-66	569	921.7	-38	
MO-103	MU1 Overlying	7/9/2015	- -	115	182.1	-37	9.3	21.4	-57	660	921.7	-28	
MO-103	MU1 Overlying	7/23/2015	14	117	182.1	-36	8.6	21.4	-60	675	921.7	-27	
MO-103	MU1 Overlying	8/6/2015	14	113	182.1	-38	8.3	21.4	-61	670	921.7	-27	
MO-103	MU1 Overlying	8/20/2015	14	115	182.1	-37	8.6	21.4	-60	660	921.7	-28	
MO-103	MU1 Overlying	9/2/2015	13	113	182.1	-38	8.7	21.4	-59	655	921.7	-29	
MO-103	MU1 Overlying	9/24/2015	22	111	182.1	-39	8.7	21.4	-59	642	921.7	-30	
MO-104	MU1 Overlying	7/9/2015	- -	122	182.1	-33	9.2	21.4	-57	583	921.7	-37	
MO-104	MU1 Overlying	7/23/2015	14	114	182.1	-38	9.1	21.4	-58	582	921.7	-37	
MO-104	MU1 Overlying	8/6/2015	14	120	182.1	-34	8.2	21.4	-61	591	921.7	-36	
MO-104	MU1 Overlying	8/20/2015	14	115	182.1	-37	8.7	21.4	-59	590	921.7	-36	
MO-104	MU1 Overlying	9/2/2015	13	117	182.1	-35	8.7	21.4	-59	601	921.7	-35	
MO-104	MU1 Overlying	9/24/2015	22	118	182.1	-35	8.5	21.4	-60	591	921.7	-36	
MO-105	MU1 Overlying	7/9/2015	- -	111	182.1	-39	6.2	21.4	-71	473	921.7	-49	
MO-105	MU1 Overlying	7/23/2015	14	100	182.1	-45	6.0	21.4	-72	468	921.7	-49	
MO-105	MU1 Overlying	8/6/2015	14	104	182.1	-43	5.5	21.4	-74	478	921.7	-48	
MO-105	MU1 Overlying	8/20/2015	14	105	182.1	-43	5.4	21.4	-75	475	921.7	-48	
MO-105	MU1 Overlying	9/2/2015	13	104	182.1	-43	5.8	21.4	-73	484	921.7	-47	
MO-105	MU1 Overlying	9/24/2015	22	107	182.1	-41	6.0	21.4	-72	469	921.7	-49	

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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†	% Chg	Assay	UCL†	% Chg	Assay	UCL†	% Chg	
MO-106	MU1 Overlying	7/9/2015	- -	94	182.1	-48	6.5	21.4	-69	454	921.7	-51	
MO-106	MU1 Overlying	7/23/2015	14	100	182.1	-45	5.8	21.4	-73	448	921.7	-51	
MO-106	MU1 Overlying	8/6/2015	14	93	182.1	-49	5.8	21.4	-73	451	921.7	-51	
MO-106	MU1 Overlying	8/20/2015	14	95	182.1	-48	6.0	21.4	-72	452	921.7	-51	
MO-106	MU1 Overlying	9/2/2015	13	105	182.1	-42	5.8	21.4	-73	461	921.7	-50	
MO-106	MU1 Overlying	9/24/2015	22	90	182.1	-51	5.2	21.4	-76	430	921.7	-53	
MO-107	MU1 Overlying	7/9/2015	- -	106	182.1	-42	6.1	21.4	-71	457	921.7	-50	
MO-107	MU1 Overlying	7/23/2015	14	97	182.1	-47	5.6	21.4	-74	457	921.7	-50	
MO-107	MU1 Overlying	8/6/2015	14	105	182.1	-43	5.6	21.4	-74	459	921.7	-50	
MO-107	MU1 Overlying	8/21/2015	15	106	182.1	-42	5.7	21.4	-73	454	921.7	-51	
MO-107	MU1 Overlying	9/2/2015	12	104	182.1	-43	5.6	21.4	-74	462	921.7	-50	
MO-107	MU1 Overlying	9/24/2015	22	96	182.1	-47	6.0	21.4	-72	449	921.7	-51	
MO-108	MU1 Overlying	7/11/2015	- -	103	182.1	-44	6.9	21.4	-68	489	921.7	-47	
MO-108	MU1 Overlying	7/23/2015	12	102	182.1	-44	6.7	21.4	-69	489	921.7	-47	
MO-108	MU1 Overlying	8/6/2015	14	105	182.1	-43	6.7	21.4	-69	493	921.7	-47	
MO-108	MU1 Overlying	8/21/2015	15	94	182.1	-48	7.2	21.4	-66	485	921.7	-47	
MO-108	MU1 Overlying	9/3/2015	13	105	182.1	-42	7.9	21.4	-63	492	921.7	-47	
MO-108	MU1 Overlying	9/24/2015	21	101	182.1	-45	7.7	21.4	-64	485	921.7	-47	
MO-109	MU1 Overlying	7/11/2015	- -	102	182.1	-44	6.4	21.4	-70	488	921.7	-47	
MO-109	MU1 Overlying	7/23/2015	12	108	182.1	-41	6.1	21.4	-71	487	921.7	-47	
MO-109	MU1 Overlying	8/6/2015	14	102	182.1	-44	6.2	21.4	-71	491	921.7	-47	
MO-109	MU1 Overlying	8/21/2015	15	107	182.1	-41	6.9	21.4	-68	493	921.7	-47	
MO-109	MU1 Overlying	9/3/2015	13	106	182.1	-42	7.6	21.4	-65	495	921.7	-46	
MO-109	MU1 Overlying	9/25/2015	22	110	182.1	-39	7.8	21.4	-64	488	921.7	-47	
MO-110	MU1 Overlying	7/11/2015	- -	101	182.1	-45	5.8	21.4	-73	425	921.7	-54	
MO-110	MU1 Overlying	7/24/2015	13	93	182.1	-49	5.5	21.4	-74	435	921.7	-53	
MO-110	MU1 Overlying	8/6/2015	13	99	182.1	-45	5.3	21.4	-75	429	921.7	-53	
MO-110	MU1 Overlying	8/21/2015	15	102	182.1	-44	5.8	21.4	-73	435	921.7	-53	
MO-110	MU1 Overlying	9/3/2015	13	95	182.1	-48	6.3	21.4	-70	430	921.7	-53	
MO-110	MU1 Overlying	9/25/2015	22	97	182.1	-47	5.0	21.4	-77	422	921.7	-54	
MO-111	MU1 Overlying	7/11/2015	- -	101	182.1	-44	6.0	21.4	-72	430	921.7	-53	
MO-111	MU1 Overlying	7/24/2015	13	108	182.1	-40	5.5	21.4	-74	430	921.7	-53	
MO-111	MU1 Overlying	8/7/2015	14	103	182.1	-44	5.0	21.4	-76	420	921.7	-54	
MO-111	MU1 Overlying	8/21/2015	14	96	182.1	-47	5.8	21.4	-73	425	921.7	-54	
MO-111	MU1 Overlying	9/3/2015	13	104	182.1	-43	6.6	21.4	-69	424	921.7	-54	
MO-111	MU1 Overlying	9/25/2015	22	100	182.1	-45	5.7	21.4	-73	420	921.7	-54	
MO-112	MU1 Overlying	7/11/2015	- -	96	182.1	-47	6.5	21.4	-70	393	921.7	-57	
MO-112	MU1 Overlying	7/24/2015	13	93	182.1	-49	5.8	21.4	-73	395	921.7	-57	
MO-112	MU1 Overlying	8/7/2015	14	98	182.1	-46	6.3	21.4	-71	399	921.7	-57	
MO-112	MU1 Overlying	8/21/2015	14	93	182.1	-49	5.6	21.4	-74	400	921.7	-57	
MO-112	MU1 Overlying	9/3/2015	13	97	182.1	-47	6.6	21.4	-69	396	921.7	-57	
MO-112	MU1 Overlying	9/25/2015	22	96	182.1	-47	6.7	21.4	-69	396	921.7	-57	
MO-113	MU1 Overlying	7/11/2015	- -	106	182.1	-42	6.3	21.4	-71	449	921.7	-51	
MO-113	MU1 Overlying	7/24/2015	13	103	182.1	-44	5.7	21.4	-73	443	921.7	-52	
MO-113	MU1 Overlying	8/7/2015	14	101	182.1	-45	6.2	21.4	-71	446	921.7	-52	
MO-113	MU1 Overlying	8/21/2015	14	104	182.1	-43	5.5	21.4	-74	445	921.7	-52	
MO-113	MU1 Overlying	9/3/2015	13	100	182.1	-45	6.6	21.4	-69	446	921.7	-52	
MO-113	MU1 Overlying	9/25/2015	22	126	182.1	-31	5.9	21.4	-72	439	921.7	-52	
MU-101	MU1 Underlying	7/8/2015	- -	116	206.0	-44	6.5	21.3	-69	539	658.9	-18	
MU-101	MU1 Underlying	7/23/2015	15	113	206.0	-45	5.9	21.3	-72	541	658.9	-18	
MU-101	MU1 Underlying	8/6/2015	14	115	206.0	-44	6.5	21.3	-70	539	658.9	-18	
MU-101	MU1 Underlying	8/20/2015	14	115	206.0	-44	6.4	21.3	-70	536	658.9	-19	
MU-101	MU1 Underlying	9/2/2015	13	109	206.0	-47	6.6	21.3	-69	541	658.9	-18	
MU-101	MU1 Underlying	9/24/2015	22	116	206.0	-44	5.0	21.3	-76	531	658.9	-19	
MU-102	MU1 Underlying	7/8/2015	- -	104	206.0	-50	5.3	21.3	-75	429	658.9	-35	
MU-102	MU1 Underlying	7/23/2015	15	111	206.0	-46	5.1	21.3	-76	428	658.9	-35	
MU-102	MU1 Underlying	8/6/2015	14	103	206.0	-50	5.1	21.3	-76	425	658.9	-36	
MU-102	MU1 Underlying	8/20/2015	14	100	206.0	-51	5.0	21.3	-77	429	658.9	-35	
MU-102	MU1 Underlying	9/2/2015	13	108	206.0	-48	5.4	21.3	-75	430	658.9	-35	
MU-102	MU1 Underlying	9/24/2015	22	104	206.0	-50	4.6	21.3	-78	419	658.9	-36	
MU-103	MU1 Underlying	7/9/2015	- -	107	206.0	-48	5.6	21.3	-74	421	658.9	-36	
MU-103	MU1 Underlying	7/23/2015	14	109	206.0	-47	5.7	21.3	-73	418	658.9	-37	

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2nd Quarter 2015
Lost Creek ISR Project PT788

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL†	% Chg	Assay	UCL†	% Chg	Assay	UCL†	% Chg	
MU-103	MU1 Underlying	8/6/2015	14	104	206.0	-49	5.0	21.3	-77	416	658.9	-37	
MU-103	MU1 Underlying	8/20/2015	14	106	206.0	-49	5.0	21.3	-77	419	658.9	-36	
MU-103	MU1 Underlying	9/2/2015	13	108	206.0	-47	5.3	21.3	-75	418	658.9	-37	
MU-103	MU1 Underlying	9/24/2015	22	102	206.0	-50	4.6	21.3	-78	409	658.9	-38	
MU-104	MU1 Underlying	7/9/2015	- -	174	206.0	-16	48.9	21.3	130	783	658.9	19	
MU-104	MU1 Underlying	7/13/2015	4	221	206.0	7	56.2	21.3	165	934	658.9	42	Excursion confirmed
MU-104	MU1 Underlying	7/21/2015	8	116	206.0	-44	9.0	21.3	-58	486	658.9	-26	
MU-104	MU1 Underlying	7/28/2015	7	108	206.0	-48	5.8	21.3	-73	428	658.9	-35	
MU-104	MU1 Underlying	8/4/2015	7	103	206.0	-50	7.0	21.3	-67	448	658.9	-32	Excursion corrected
MU-104	MU1 Underlying	8/20/2015	16	133	206.0	-35	22.1	21.3	4	592	658.9	-10	
MU-104	MU1 Underlying	8/26/2015	6	320	206.0	55	102.8	21.3	384	1204	658.9	83	Excursion suspected
MU-104	MU1 Underlying	8/31/2015	5	112	206.0	-46	8.4	21.3	-61	447	658.9	-32	No excursion
MU-104	MU1 Underlying	9/9/2015	9	101	206.0	-51	5.3	21.3	-75	398	658.9	-40	
MU-104	MU1 Underlying	9/14/2015	5	105	206.0	-49	5.3	21.3	-75	398	658.9	-40	
MU-104	MU1 Underlying	9/24/2015	10	104	206.0	-50	5.7	21.3	-73	397	658.9	-40	
MU-105	MU1 Underlying	7/9/2015	- -	101	206.0	-51	5.9	21.3	-72	433	658.9	-34	
MU-105	MU1 Underlying	7/23/2015	14	98	206.0	-52	4.9	21.3	-77	435	658.9	-34	
MU-105	MU1 Underlying	8/6/2015	14	109	206.0	-47	5.2	21.3	-75	434	658.9	-34	
MU-105	MU1 Underlying	8/20/2015	14	101	206.0	-51	5.1	21.3	-76	435	658.9	-34	
MU-105	MU1 Underlying	9/2/2015	13	102	206.0	-50	5.5	21.3	-74	437	658.9	-34	
MU-105	MU1 Underlying	9/24/2015	22	106	206.0	-49	5.7	21.3	-73	428	658.9	-35	
MU-106	MU1 Underlying	7/9/2015	- -	108	206.0	-47	6.2	21.3	-71	438	658.9	-34	
MU-106	MU1 Underlying	7/23/2015	14	109	206.0	-47	5.4	21.3	-74	440	658.9	-33	
MU-106	MU1 Underlying	8/6/2015	14	111	206.0	-46	5.6	21.3	-73	444	658.9	-33	
MU-106	MU1 Underlying	8/20/2015	14	103	206.0	-50	5.3	21.3	-75	447	658.9	-32	
MU-106	MU1 Underlying	9/2/2015	13	107	206.0	-48	5.7	21.3	-73	448	658.9	-32	
MU-106	MU1 Underlying	9/24/2015	22	102	206.0	-51	5.5	21.3	-74	448	658.9	-32	
MU-107	MU1 Underlying	7/9/2015	- -	107	206.0	-48	5.8	21.3	-73	452	658.9	-31	
MU-107	MU1 Underlying	7/23/2015	14	107	206.0	-48	5.2	21.3	-76	456	658.9	-31	
MU-107	MU1 Underlying	8/6/2015	14	108	206.0	-47	4.9	21.3	-77	461	658.9	-30	
MU-107	MU1 Underlying	8/21/2015	15	109	206.0	-47	4.9	21.3	-77	460	658.9	-30	
MU-107	MU1 Underlying	9/2/2015	12	109	206.0	-47	5.5	21.3	-74	469	658.9	-29	
MU-107	MU1 Underlying	9/24/2015	22	106	206.0	-48	4.7	21.3	-78	461	658.9	-30	
KPW-2	MU1 Underlying	7/11/2015	- -	100	206.0	-51	5.8	21.3	-73	481	658.9	-27	
KPW-2	MU1 Underlying	7/23/2015	12	98	206.0	-52	5.3	21.3	-75	477	658.9	-28	
KPW-2	MU1 Underlying	8/6/2015	14	103	206.0	-50	5.2	21.3	-76	482	658.9	-27	
KPW-2	MU1 Underlying	8/21/2015	15	98	206.0	-52	5.1	21.3	-76	476	658.9	-28	
KPW-2	MU1 Underlying	9/3/2015	13	107	206.0	-48	6.2	21.3	-71	474	658.9	-28	
KPW-2	MU1 Underlying	9/24/2015	21	108	206.0	-48	5.1	21.3	-76	473	658.9	-28	
MU-109	MU1 Underlying	7/7/2015	- -	151	206.0	-27	23.8	21.3	*12*	667	658.9	*1*	Excursion continued from previous quarter
MU-109	MU1 Underlying	7/11/2015	4	155	206.0	-25	29.2	21.3	***38***	710	658.9	*8*	
MU-109	MU1 Underlying	7/14/2015	3	166	206.0	-19	33.5	21.3	***57***	789	658.9	*20*	
MU-109	MU1 Underlying	7/21/2015	7	165	206.0	-20	24.5	21.3	*15*	697	658.9	*6*	
MU-109	MU1 Underlying	7/28/2015	7	159	206.0	-23	28.1	21.3	***32***	702	658.9	*7*	
MU-109	MU1 Underlying	8/4/2015	7	157	206.0	-24	26.7	21.3	***26***	702	658.9	*7*	
MU-109	MU1 Underlying	8/12/2015	8	128	206.0	-38	15.7	21.3	-26	598	658.9	-9	
MU-109	MU1 Underlying	8/18/2015	6	144	206.0	-30	19.6	21.3	-8	637	658.9	-3	
MU-109	MU1 Underlying	8/26/2015	8	141	206.0	-32	17.9	21.3	-16	620	658.9	-6	Excursion corrected
MU-109	MU1 Underlying	8/31/2015	5	151	206.0	-27	21.2	21.3	0	671	658.9	*2*	
MU-109	MU1 Underlying	9/9/2015	9	145	206.0	-30	18.9	21.3	-11	624	658.9	-5	
MU-109	MU1 Underlying	9/14/2015	5	137	206.0	-33	16.6	21.3	-22	601	658.9	-9	
MU-109	MU1 Underlying	9/22/2015	8	135	206.0	-34	19.6	21.3	-8	581	658.9	-12	
MU-110	MU1 Underlying	7/11/2015	- -	79	206.0	-62	8.5	21.3	-60	450	658.9	-32	
MU-110	MU1 Underlying	7/24/2015	13	95	206.0	-54	8.9	21.3	-58	454	658.9	-31	
MU-110	MU1 Underlying	8/6/2015	13	96	206.0	-54	7.5	21.3	-65	458	658.9	-30	
MU-110	MU1 Underlying	8/21/2015	15	93	206.0	-55	8.4	21.3	-61	451	658.9	-32	
MU-110	MU1 Underlying	9/3/2015	13	91	206.0	-56	9.2	21.3	-57	452	658.9	-31	
MU-110	MU1 Underlying	9/25/2015	22	86	206.0	-58	8.8	21.3	-59	448	658.9	-32	
MU-111	MU1 Underlying	7/11/2015	- -	94	206.0	-54	6.7	21.3	-68	495	658.9	-25	
MU-111	MU1 Underlying	7/29/2015	18	100	206.0	-52	6.3	21.3	-71	501	658.9	-24	
MU-111	MU1 Underlying	8/7/2015	9	100	206.0	-51	6.5	21.3	-70	503	658.9	-24	
MU-111	MU1 Underlying	8/21/2015	14	102	206.0	-50	5.5	21.3	-74	497	658.9	-25	
MU-111	MU1 Underlying	9/3/2015	13	101	206.0	-51	5.7	21.3	-73	496	658.9	-25	
MU-111	MU1 Underlying	9/25/2015	22	92	206.0	-56	7.8	21.3	-63	492	658.9	-25	
MU-112	MU1 Underlying	7/11/2015	- -	92	206.0	-55	5.4	21.3	-74	431	658.9	-35	
MU-112	MU1 Underlying	7/24/2015	13	96	206.0	-54	5.1	21.3	-76	439	658.9	-33	
MU-112	MU1 Underlying	8/7/2015	14	94	206.0	-54	5.8	21.3	-72	439	658.9	-33	
MU-112	MU1 Underlying	8/21/2015	14	93	206.0	-55	5.1	21.3	-76	436	658.9	-34	
MU-112	MU1 Underlying	9/3/2015	13	93	206.0	-55	5.0	21.3	-77	437	658.9	-34	

Attachment 4: MU1 Water Quality Data
2nd Quarter 2015
Lost Creek ISR Project PT788

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL†	% Chg	Assay	UCL†	% Chg	Assay	UCL†	% Chg	
MU-112	MU1 Underlying	9/25/2015	22	95	206.0	-54	5.5	21.3	-74	430	658.9	-35	
MU-113	MU1 Underlying	7/11/2015	- -	90	206.0	-56	5.3	21.3	-75	464	658.9	-30	
MU-113	MU1 Underlying	7/29/2015	18	90	206.0	-56	5.2	21.3	-75	471	658.9	-29	
MU-113	MU1 Underlying	8/7/2015	9	95	206.0	-54	5.8	21.3	-73	467	658.9	-29	
MU-113	MU1 Underlying	8/21/2015	14	95	206.0	-54	5.1	21.3	-76	468	658.9	-29	
MU-113	MU1 Underlying	9/3/2015	13	97	206.0	-53	5.0	21.3	-77	468	658.9	-29	
MU-113	MU1 Underlying	9/25/2015	22	88	206.0	-57	5.3	21.3	-75	458	658.9	-30	
LC29M	Regional DE	N/A	- -	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MB-10	Regional DE	N/A	- -	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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