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## **LOST CREEK ISR, LLC**

July 26, 2017

Nancy Williams  
State of Wyoming Department of Environmental Quality  
Land Quality Division  
510 Meadowview Drive  
Lander, WY 82520

**Re: 2nd Quarter 2017 Report for the Lost Creek ISR Project  
Permit #788 (BLM WYW-166318)**

Dear Ms. Williams,

This Quarterly Report for the 2nd calendar quarter of 2017 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 98 Mechanical Integrity Tests (MIT) were performed on a total of 98 wells in accordance with the approved Permit Operations Plan Section 3.4. Results are summarized on **Attachment 1**. The MITs resulted in 94 successful tests with 4 failures. Failed wells have been or will be abandoned in accordance with the Permit. Replacement wells were installed for the 4 failed wells. One well (2M1287) MIT passed but was abandoned due to incorrect casing depth and another well (2M1229) was damaged during swabbing operations following the MIT and was abandoned and replaced.

### **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 (CO<sub>2</sub>), and oxygen (O<sub>2</sub>) 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 presented. 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 either recycled for Plant process use or is sent directly to the waste water stream.

Groundwater level data collected from Mine Unit 1 (MU1) and regional monitoring wells is included in **Attachment 3**. Water levels for MU1 were measured semi-monthly in conjunction with routine excursion groundwater sampling for the ring (“M”), overlying (“MO”), and underlying monitor (“MU”) wells. Quarterly water levels were collected from regional (“LC” and “MB”) wells. The wells experienced typical fluctuation in water levels and no significant changes occurred for MO or MU wells. Fluctuations are typical for the M wells but more pronounced since they are more directly affected by water balance in the wellfield.

Water quality and quality control (QC) results from routine groundwater quality monitoring, as described in the Permit Operations Plan Section 3.6.4, for MU1 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.

No analytical results exceeded the associated UCL during the quarter with the following exceptions:

- MU-109: 5/5/2017 Chloride
- MU-109: 5/17/2017 Chloride

Although these results exceeded the UCL, they were not indicative of an excursion as confirmed by additional sampling. The chloride values for MU-109 were consistent with baseline values as of the end of the quarter.

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

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  
2nd Quarter 2017  
Lost Creek ISR Project PT788**

	Well ID	Well Type	MIT <sup>(1)</sup> Date	P/F	P&A <sup>(2)</sup> Date	Comments
1	2M1003	I	5/31/2017	Pass	---	
2	2M1005	P	6/7/2017	Pass	---	
3	2M1006	I	5/31/2017	Pass	---	
4	2M1007	I	5/31/2017	Pass	---	
5	2M1008	I	5/31/2017	Pass	---	
6	2M1009	P	6/13/2017	Fail	TBA	
7	2M1009A	P	6/20/2017	Pass	---	
8	2M1011	I	6/14/2017	Pass	---	
9	2M1015B	I	5/1/2017	Pass	---	
10	2M1021	I	6/2/2017	Pass	---	
11	2M1022	I	6/7/2017	Pass	---	
12	2M1023	I	6/8/2017	Pass	---	
13	2M1037	I	6/6/2017	Pass	---	
14	2M1042	I	5/10/2017	Pass	---	
15	2M1050	I	4/14/2017	Pass	---	
16	2M1051	I	6/1/2017	Pass	---	
17	2M1059	I	6/5/2017	Pass	---	
18	2M1063	P	5/30/2017	Pass	---	
19	2M1081	I	5/10/2017	Pass	---	
20	2M1082	I	5/3/2017	Pass	---	
21	2M1109	I	4/26/2017	Pass	---	
22	2M1110	I	4/25/2017	Pass	---	
23	2M1111	P	6/7/2017	Pass	---	
24	2M1112	I	5/25/2017	Fail	6/14/2017	
25	2M1112A	I	6/9/2017	Pass	---	
26	2M1114	I	5/4/2017	Pass	---	
27	2M1115	I	5/12/2017	Pass	---	
28	2M1120	P	5/22/2017	Pass	---	
29	2M1124	I	5/22/2017	Pass	---	
30	2M1125	I	4/14/2017	Fail	6/14/2017	
31	2M1125A	I	6/9/2017	Pass	---	
32	2M1126	I	4/24/2017	Pass	---	
33	2M1127	I	5/3/2017	Pass	---	
34	2M1162	I	4/27/2017	Pass	---	
35	2M1163	P	4/27/2017	Pass	---	
36	2M1171	I	4/25/2017	Pass	---	
37	2M1172	I	4/25/2017	Pass	---	
38	2M1173	I	4/27/2017	Pass	---	
39	2M1182	P	5/17/2017	Pass	---	
40	2M1184	P	6/8/2017	Pass	---	
41	2M1195	I	5/24/2017	Pass	---	
42	2M1196	I	5/11/2017	Pass	---	
43	2M1198	I	5/10/2017	Pass	---	
44	2M1199	P	5/10/2017	Pass	---	
45	2M1201	I	5/3/2017	Pass	---	
46	2M1202	I	5/10/2017	Pass	---	
47	2M1203	I	5/22/2017	Pass	---	
48	2M1204	I	4/14/2017	Pass	---	
49	2M1205	I	5/22/2017	Pass	---	
50	2M1206	I	6/7/2017	Pass	---	
51	2M1207	I	5/9/2017	Pass	---	
52	2M1208	I	5/12/2017	Pass	---	
53	2M1209	P	5/1/2017	Pass	---	
54	2M1210	I	4/21/2017	Pass	---	
55	2M1211	P	5/11/2017	Pass	---	
56	2M1222	I	6/5/2017	Pass	---	
57	2M1228	I	4/26/2017	Pass	---	

**Attachment 1: Mechanical Integrity Testing  
2nd Quarter 2017  
Lost Creek ISR Project PT788**

	Well ID	Well Type	MIT <sup>(1)</sup> Date	P/F	P&A <sup>(2)</sup> Date	Comments
58	2M1229	I	4/26/2017	Pass	6/14/2017	Well damaged during swabbing
59	2M1229A	I	6/20/2017	Pass	---	
60	2M1230	P	4/14/2017	Pass	---	
61	2M1232	I	6/2/2017	Pass	---	
62	2M1233	I	5/9/2017	Pass	---	
63	2M1234	P	5/11/2017	Pass	---	
64	2M1237	I	5/25/2017	Pass	---	
65	2M1238	I	5/15/2017	Pass	---	
66	2M1239	P	5/25/2017	Pass	---	
67	2M1240	I	5/11/2017	Pass	---	
68	2M1241	P	6/16/2017	Pass	---	
69	2M1242	I	5/26/2017	Pass	---	
70	2M1244	I	5/12/2017	Pass	---	
71	2M1248	I	6/7/2017	Pass	---	
72	2M1249	I	4/17/2017	Pass	---	
73	2M1250	I	5/4/2017	Pass	---	
74	2M1252	P	6/6/2017	Pass	---	
75	2M1254	P	5/23/2017	Pass	---	
76	2M1256	P	6/16/2017	Fail	TBA	
77	2M1256A	P	6/27/2017	Pass	---	
78	2M1258	I	5/25/2017	Pass	---	
79	2M1259	I	6/14/2017	Pass	---	
80	2M1263	P	5/26/2017	Pass	---	
81	2M1268	I	6/14/2017	Pass	---	
82	2M1269	I	5/26/2017	Pass	---	
83	2M1272	I	6/14/2017	Pass	---	
84	2M1276	P	5/30/2017	Pass	---	
85	2M1282	I	5/24/2017	Pass	---	
86	2M1285	P	5/24/2017	Pass	---	
87	2M1287	I	5/23/2017	Pass	TBA	Cased at wrong depth
88	2M1295	I	5/24/2017	Pass	---	
89	2M1297	P	6/14/2017	Pass	---	
90	2M1298	I	6/9/2017	Pass	---	
91	2M1303	I	6/7/2017	Pass	---	
92	2M1304	I	6/7/2017	Pass	---	
93	2M1306	P	6/9/2017	Pass	---	
94	2M1312	P	5/31/2017	Pass	---	
95	2M1314	I	6/8/2017	Pass	---	
96	2M1320	I	5/30/2017	Pass	---	
97	2M1326	I	6/7/2017	Pass	---	
98	2M1328	I	6/2/2017	Pass	---	

98 Total Tests  
94 Pass  
4 Fail  
98 Wells Tested  
4 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

TBA: To be abandoned

**Attachment 2: Plant Operational Flow Summary  
2nd Quarter 2017  
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
4/1/2017	2377	2359	15.5	0.0	0.65%	
4/2/2017	2368	2350	15.5	0.0	0.66%	
4/3/2017	2053	2039	7.9	6.0	0.68%	
4/4/2017	2398	2384	12.2	3.9	0.67%	
4/5/2017	2408	2394	11.9	5.4	0.72%	
4/6/2017	2426	2411	11.9	5.6	0.72%	
4/7/2017	2456	2441	13.4	3.5	0.69%	
4/8/2017	2460	2442	15.8	0.0	0.64%	
4/9/2017	2430	2413	15.7	0.0	0.65%	
4/10/2017	2438	2423	12.9	4.7	0.72%	
4/11/2017	2430	2413	14.4	1.9	0.67%	
4/12/2017	2420	2402	13.5	3.7	0.71%	
4/13/2017	2387	2370	11.4	6.2	0.74%	
4/14/2017	2442	2424	11.8	4.8	0.68%	
4/15/2017	2466	2446	15.2	0.0	0.62%	
4/16/2017	2456	2437	15.9	0.0	0.65%	
4/17/2017	2455	2438	13.9	3.3	0.70%	
4/18/2017	2445	2428	14.1	2.3	0.67%	
4/19/2017	2460	2445	13.5	3.3	0.68%	
4/20/2017	2472	2455	14.0	2.3	0.66%	
4/21/2017	2462	2446	13.6	2.6	0.66%	
4/22/2017	2464	2446	15.3	0.0	0.62%	
4/23/2017	2448	2429	15.3	0.0	0.63%	
4/24/2017	2458	2442	12.7	4.5	0.70%	
4/25/2017	2447	2432	12.9	3.4	0.67%	
4/26/2017	2479	2462	13.9	2.5	0.66%	
4/27/2017	2495	2479	14.2	3.1	0.69%	
4/28/2017	2443	2427	15.5	0.0	0.63%	
4/29/2017	2438	2422	15.3	0.0	0.63%	
4/30/2017	2408	2391	15.2	0.0	0.63%	
5/1/2017	2462	2448	13.0	3.5	0.67%	
5/2/2017	2465	2451	13.3	3.7	0.69%	
5/3/2017	2466	2452	12.7	4.8	0.71%	
5/4/2017	2481	2466	12.0	5.4	0.70%	
5/5/2017	2474	2456	14.0	2.1	0.65%	
5/6/2017	2410	2392	14.8	0.0	0.61%	
5/7/2017	2342	2324	14.6	0.0	0.62%	
5/8/2017	2344	2329	11.9	4.2	0.69%	
5/9/2017	2445	2430	12.5	3.8	0.66%	
5/10/2017	2483	2469	12.4	4.6	0.68%	
5/11/2017	2512	2497	13.5	3.3	0.67%	
5/12/2017	2513	2495	15.7	0.0	0.63%	
5/13/2017	2509	2492	15.6	0.0	0.62%	
5/14/2017	2484	2467	15.5	0.0	0.63%	
5/15/2017	2497	2482	12.6	4.4	0.68%	
5/16/2017	2488	2475	13.3	3.0	0.66%	
5/17/2017	2494	2479	14.6	1.0	0.63%	
5/18/2017	2428	2411	15.3	0.0	0.63%	
5/19/2017	2432	2419	15.3	0.0	0.63%	
5/20/2017	2432	2416	15.2	0.0	0.63%	
5/21/2017	2438	2421	15.4	0.0	0.63%	

**Attachment 2: Plant Operational Flow Summary  
2nd Quarter 2017  
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
5/22/2017	2386	2370	14.9	0.0	0.63%	
5/23/2017	1793	1793	11.9	0.0	0.66%	
5/24/2017	2463	2446	15.4	0.0	0.63%	
5/25/2017	2432	2416	15.2	0.0	0.63%	
5/26/2017	2413	2397	15.3	0.0	0.63%	
5/27/2017	2377	2361	15.0	0.0	0.63%	
5/28/2017	2375	2359	14.9	0.0	0.63%	
5/29/2017	2308	2294	13.9	0.0	0.60%	
5/30/2017	2345	2337	14.7	0.0	0.63%	
5/31/2017	2332	2322	13.9	0.0	0.60%	
6/1/2017	2346	2321	14.7	0.0	0.63%	
6/2/2017	2311	2295	14.6	0.0	0.63%	
6/3/2017	2311	2295	14.6	0.0	0.63%	
6/4/2017	2305	2286	14.5	0.0	0.63%	
6/5/2017	2282	2262	14.5	0.0	0.63%	
6/6/2017	2264	2247	12.5	3.2	0.70%	
6/7/2017	2321	2305	13.0	2.2	0.66%	
6/8/2017	2342	2325	14.6	0.0	0.62%	
6/9/2017	2325	2311	14.0	1.0	0.65%	
6/10/2017	2213	2194	13.5	0.0	0.61%	
6/11/2017	2137	2124	13.7	0.0	0.64%	
6/12/2017	2272	2259	12.9	0.0	0.57%	
6/13/2017	2313	2299	13.9	0.0	0.60%	
6/14/2017	2335	2320	14.9	0.0	0.64%	
6/15/2017	2337	2321	13.3	2.3	0.67%	
6/16/2017	2317	2300	14.6	0.0	0.63%	
6/17/2017	2311	2293	14.6	0.0	0.63%	
6/18/2017	2297	2279	14.4	0.0	0.63%	
6/19/2017	2250	2232	14.4	0.0	0.64%	
6/20/2017	2250	2234	11.9	3.8	0.69%	
6/21/2017	2264	2246	14.3	0.0	0.63%	
6/22/2017	2255	2238	14.3	0.0	0.63%	
6/23/2017	2260	2244	13.6	1.0	0.65%	
6/24/2017	2265	2249	14.2	0.0	0.63%	
6/25/2017	2248	2233	14.2	0.0	0.63%	
6/26/2017	2238	2223	14.2	0.0	0.63%	
6/27/2017	2208	2196	12.1	3.1	0.69%	
6/28/2017	2209	2195	14.0	0.0	0.63%	
6/29/2017	2233	2220	12.9	2.1	0.67%	
6/30/2017	2253	2238	14.3	0.0	0.64%	

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  
2nd Quarter 2017  
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
4/1/2017	12	125	13	5	1	
4/2/2017	12	125	13	5	1	
4/3/2017	12	125	13	5	1	
4/4/2017	12	125	13	5	1	
4/5/2017	12	125	13	5	1	
4/6/2017	12	125	13	9	1	
4/7/2017	22	125	13	9	1	
4/8/2017	11	125	13	9	1	
4/9/2017	11	125	13	9	1	
4/10/2017	11	125	13	9	1	
4/11/2017	10	124	12	9	1	
4/12/2017	23	126	12	9	1	
4/13/2017	23	119	12	9	1	
4/14/2017	23	120	12	9	1	
4/15/2017	32	120	12	9	1	
4/16/2017	30	122	13	9	1	
4/17/2017	32	115	13	9	1	
4/18/2017	31	115	12	9	1	
4/19/2017	31	115	12	9	1	
4/20/2017	31	115	12	9	1	
4/21/2017	31	115	12	9	1	
4/22/2017	31	115	12	9	1	
4/23/2017	31	115	12	9	1	
4/24/2017	30	115	13	9	1	
4/25/2017	30	115	13	9	1	
4/26/2017	30	115	13	9	1	
4/27/2017	30	118	13	9	1	
4/28/2017	30	120	13	9	1	
4/29/2017	30	120	13	9	1	
4/30/2017	28	120	13	9	1	
5/1/2017	28	120	13	9	1	
5/2/2017	28	120	13	9	1	
5/3/2017	28	120	13	9	1	
5/4/2017	28	120	13	9	1	
5/5/2017	28	120	13	9	1	
5/6/2017	28	120	13	9	1	
5/7/2017	28	120	13	9	1	
5/8/2017	28	120	13	9	1	
5/9/2017	28	120	13	9	1	
5/10/2017	28	120	13	9	1	
5/11/2017	28	120	13	9	1	
5/12/2017	28	120	13	9	1	
5/13/2017	28	120	13	9	1	
5/14/2017	28	120	13	9	1	
5/15/2017	30	120	13	9	1	
5/16/2017	27	120	13	9	1	
5/17/2017	26	120	13	9	1	
5/18/2017	27	120	13	9	1	
5/19/2017	10	120	14	9	1	
5/20/2017	27	120	14	9	1	



**Attachment 2: HH1-1 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	27	120	13	9	1	
5/22/2017	14	121	13	9	1	
5/23/2017	25	125	14	9	1	
5/24/2017	16	124	14	9	1	
5/25/2017	27	124	14	9	1	
5/26/2017	27	124	14	9	1	
5/27/2017	27	125	14	9	1	
5/28/2017	27	127	14	9	1	
5/29/2017	29	124	14	9	1	
5/30/2017	27	124	14	9	1	
5/31/2017	23	120	13	9	1	
6/1/2017	27	123	14	9	1	
6/2/2017	27	123	14	9	1	
6/3/2017	25	120	14	9	1	
6/4/2017	25	120	14	9	1	
6/5/2017	27	120	13	9	1	
6/6/2017	27	120	13	9	1	
6/7/2017	27	120	14	9	1	
6/8/2017	26	124	13	9	1	
6/9/2017	27	127	14	9	1	
6/10/2017	27	127	14	9	1	
6/11/2017	27	125	14	9	1	
6/12/2017	26	125	14	9	1	
6/13/2017	26	125	14	9	1	
6/14/2017	26	125	14	9	1	
6/15/2017	26	125	14	9	1	
6/16/2017	26	127	14	9	1	
6/17/2017	26	127	14	9	1	
6/18/2017	26	124	14	9	1	
6/19/2017	25	125	14	9	1	
6/20/2017	25	124	14	9	1	
6/21/2017	25	125	14	9	1	
6/22/2017	25	124	14	9	1	
6/23/2017	25	125	14	9	1	
6/24/2017	25	125	13	9	1	
6/25/2017	25	125	14	9	1	
6/26/2017	25	125	14	9	1	
6/27/2017	25	125	14	9	1	
6/28/2017	24	125	13	9	1	
6/29/2017	24	125	14	9	1	
6/30/2017	24	125	14	9	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 fracture pressure for the well.  
gpm: gallons per minute  
psi: pounds per square inch

**Attachment 2: HH1-2 Flow Summary  
2nd Quarter 2017  
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
4/1/2017	52	121	29	27	3	
4/2/2017	52	122	28	27	3	
4/3/2017	52	122	28	27	1	
4/4/2017	52	122	28	28	3	
4/5/2017	52	122	29	28	3	
4/6/2017	53	123	28	28	3	
4/7/2017	53	123	28	28	3	
4/8/2017	52	123	29	28	3	
4/9/2017	52	123	29	28	3	
4/10/2017	52	123	28	28	3	
4/11/2017	52	122	27	30	4	
4/12/2017	56	122	32	30	4	
4/13/2017	55	123	30	29	4	
4/14/2017	54	117	31	29	4	
4/15/2017	58	114	32	29	4	
4/16/2017	58	114	18	28	4	
4/17/2017	56	112	18	28	5	
4/18/2017	58	112	27	28	5	
4/19/2017	58	112	26	28	5	
4/20/2017	57	112	26	28	5	
4/21/2017	57	112	25	28	5	
4/22/2017	56	112	25	28	5	
4/23/2017	56	112	26	28	5	
4/24/2017	56	112	26	28	5	
4/25/2017	56	112	25	28	5	
4/26/2017	56	112	25	28	5	
4/27/2017	56	116	28	28	5	
4/28/2017	57	117	29	28	5	
4/29/2017	56	118	28	28	5	
4/30/2017	56	118	29	28	5	
5/1/2017	56	118	29	27	5	
5/2/2017	55	118	33	27	5	
5/3/2017	54	118	32	26	5	
5/4/2017	54	118	31	26	5	
5/5/2017	53	118	31	27	5	
5/6/2017	53	117	30	27	5	
5/7/2017	53	117	30	27	5	
5/8/2017	53	117	30	27	5	
5/9/2017	53	117	29	27	5	
5/10/2017	53	117	31	27	5	
5/11/2017	53	117	30	27	5	
5/12/2017	53	117	31	25	5	
5/13/2017	52	117	32	25	5	
5/14/2017	52	117	32	26	5	
5/15/2017	52	117	31	26	5	
5/16/2017	52	117	31	28	5	
5/17/2017	53	118	33	26	5	
5/18/2017	52	116	31	26	5	
5/19/2017	51	116	33	25	5	
5/20/2017	51	116	32	26	5	

**Attachment 2: HH1-2 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	51	116	32	25	5	
5/22/2017	51	117	32	25	5	
5/23/2017	51	117	32	30	5	
5/24/2017	55	122	35	27	5	
5/25/2017	55	122	37	27	5	
5/26/2017	54	122	36	27	5	
5/27/2017	54	122	34	28	5	
5/28/2017	54	122	34	30	5	
5/29/2017	55	122	31	28	5	
5/30/2017	55	122	33	28	5	
5/31/2017	54	122	36	28	5	
6/1/2017	54	122	32	28	5	
6/2/2017	54	121	32	28	5	
6/3/2017	54	121	32	28	5	
6/4/2017	54	122	32	28	5	
6/5/2017	54	122	34	28	5	
6/6/2017	54	122	32	28	5	
6/7/2017	53	123	31	28	5	
6/8/2017	55	126	33	28	5	
6/9/2017	54	127	32	28	5	
6/10/2017	54	126	31	28	5	
6/11/2017	54	127	32	28	5	
6/12/2017	52	122	31	28	5	
6/13/2017	53	122	30	28	5	
6/14/2017	53	122	33	28	5	
6/15/2017	52	121	32	28	5	
6/16/2017	52	120	32	27	5	
6/17/2017	52	120	33	27	5	
6/18/2017	52	120	33	27	5	
6/19/2017	52	120	32	28	5	
6/20/2017	52	122	31	28	5	
6/21/2017	52	121	31	28	5	
6/22/2017	52	122	32	28	5	
6/23/2017	51	122	31	28	5	
6/24/2017	51	122	32	28	5	
6/25/2017	51	121	32	28	5	
6/26/2017	51	121	31	28	5	
6/27/2017	51	121	31	28	5	
6/28/2017	50	118	29	28	6	
6/29/2017	51	124	25	28	4	
6/30/2017	52	123	25	28	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  
2nd Quarter 2017  
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
4/1/2017	101	123	104	28	7	
4/2/2017	101	124	104	28	7	
4/3/2017	101	124	102	28	7	
4/4/2017	99	122	102	37	7	
4/5/2017	108	123	105	37	7	
4/6/2017	107	123	102	37	7	
4/7/2017	107	123	102	37	7	
4/8/2017	107	123	104	37	7	
4/9/2017	107	123	105	37	7	
4/10/2017	107	123	104	37	7	
4/11/2017	108	123	100	37	7	
4/12/2017	108	123	99	37	7	
4/13/2017	108	122	95	36	7	
4/14/2017	104	117	96	35	7	
4/15/2017	101	116	99	37	7	
4/16/2017	113	113	98	37	7	
4/17/2017	110	113	98	37	6	
4/18/2017	110	114	96	37	6	
4/19/2017	110	113	96	37	6	
4/20/2017	109	114	95	37	6	
4/21/2017	116	112	95	37	6	
4/22/2017	117	112	96	37	6	
4/23/2017	117	112	96	37	6	
4/24/2017	117	112	97	37	6	
4/25/2017	116	113	95	37	6	
4/26/2017	116	113	95	37	6	
4/27/2017	119	117	99	37	6	
4/28/2017	119	118	100	36	6	
4/29/2017	119	119	99	36	6	
4/30/2017	119	119	100	36	6	
5/1/2017	118	119	99	35	6	
5/2/2017	116	119	103	35	6	
5/3/2017	114	118	102	35	6	
5/4/2017	114	118	101	36	6	
5/5/2017	113	118	101	35	6	
5/6/2017	113	118	101	35	6	
5/7/2017	0	0	0	0	0	Off line
5/8/2017	0	0	0	0	0	Off line
5/9/2017	139	122	102	39	6	
5/10/2017	106	122	102	38	6	
5/11/2017	103	122	100	37	6	
5/12/2017	99	122	101	35	6	
5/13/2017	98	123	101	34	6	
5/14/2017	98	123	101	34	6	
5/15/2017	97	123	100	36	6	
5/16/2017	97	123	100	35	6	
5/17/2017	99	125	103	35	6	
5/18/2017	97	124	100	35	6	
5/19/2017	95	121	102	34	6	
5/20/2017	95	121	101	34	6	

**Attachment 2: HH1-3 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	95	123	100	34	6	
5/22/2017	93	124	99	33	6	
5/23/2017	92	124	99	34	6	
5/24/2017	102	122	104	33	6	
5/25/2017	100	122	107	33	6	
5/26/2017	100	122	104	36	6	
5/27/2017	93	122	101	36	6	
5/28/2017	93	122	100	36	6	
5/29/2017	90	123	98	33	6	
5/30/2017	89	123	102	35	6	
5/31/2017	91	123	105	36	6	
6/1/2017	92	123	100	36	6	
6/2/2017	92	121	100	36	6	
6/3/2017	92	121	100	36	6	
6/4/2017	91	122	100	36	6	
6/5/2017	93	122	102	36	6	
6/6/2017	93	122	99	36	6	
6/7/2017	93	122	98	36	6	
6/8/2017	94	123	100	36	6	
6/9/2017	96	126	100	38	6	
6/10/2017	96	126	98	37	6	
6/11/2017	96	127	99	36	6	
6/12/2017	92	122	98	36	6	
6/13/2017	93	122	97	35	6	
6/14/2017	98	121	100	36	6	
6/15/2017	99	123	100	36	6	
6/16/2017	99	123	99	36	6	
6/17/2017	99	123	100	36	6	
6/18/2017	99	123	100	36	6	
6/19/2017	99	123	99	36	6	
6/20/2017	98	123	98	36	6	
6/21/2017	98	122	97	36	6	
6/22/2017	98	122	99	36	6	
6/23/2017	98	122	98	36	6	
6/24/2017	98	123	99	36	6	
6/25/2017	99	123	100	36	6	
6/26/2017	99	123	98	36	6	
6/27/2017	98	123	98	36	6	
6/28/2017	98	123	95	36	6	
6/29/2017	99	125	99	36	6	
6/30/2017	98	122	98	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  
2nd Quarter 2017  
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
4/1/2017	105	123	108	42	5	
4/2/2017	107	125	98	42	5	
4/3/2017	111	123	113	42	5	
4/4/2017	108	124	105	42	5	
4/5/2017	111	124	126	40	5	
4/6/2017	111	123	121	40	5	
4/7/2017	109	124	119	39	5	
4/8/2017	109	124	124	39	5	
4/9/2017	104	126	109	39	5	
4/10/2017	107	118	125	40	6	
4/11/2017	110	125	145	40	6	
4/12/2017	112	124	146	40	6	
4/13/2017	117	121	143	39	6	
4/14/2017	114	116	143	40	6	
4/15/2017	119	112	136	39	6	
4/16/2017	118	112	150	40	6	
4/17/2017	118	113	148	39	6	
4/18/2017	120	115	138	40	6	
4/19/2017	113	116	149	40	6	
4/20/2017	114	119	153	40	6	
4/21/2017	114	119	151	40	6	
4/22/2017	117	118	149	40	6	
4/23/2017	116	119	150	40	6	
4/24/2017	112	120	132	40	8	
4/25/2017	118	119	164	40	8	
4/26/2017	118	119	178	40	8	
4/27/2017	115	119	165	40	8	
4/28/2017	116	118	180	39	8	
4/29/2017	115	118	181	39	8	
4/30/2017	115	118	165	39	8	
5/1/2017	116	118	176	40	8	
5/2/2017	149	105	188	40	8	
5/3/2017	159	119	184	40	8	
5/4/2017	157	119	184	40	8	
5/5/2017	169	112	182	40	8	
5/6/2017	173	119	182	40	8	
5/7/2017	168	120	181	40	8	
5/8/2017	167	120	181	40	8	
5/9/2017	164	121	178	40	8	
5/10/2017	161	121	179	39	8	
5/11/2017	165	120	181	40	8	
5/12/2017	161	119	180	40	8	
5/13/2017	158	120	180	40	8	
5/14/2017	158	120	168	40	8	
5/15/2017	156	120	178	40	8	
5/16/2017	156	120	166	41	8	
5/17/2017	156	126	165	35	8	
5/18/2017	158	124	154	35	8	
5/19/2017	157	124	156	35	8	
5/20/2017	156	124	178	35	8	

**Attachment 2: HH1-4 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	156	124	176	35	8	
5/22/2017	152	125	175	35	8	
5/23/2017	152	125	164	43	7	
5/24/2017	159	125	179	43	7	
5/25/2017	156	125	156	43	6	
5/26/2017	157	125	151	43	6	
5/27/2017	151	122	146	43	6	
5/28/2017	149	123	147	43	6	
5/29/2017	144	122	132	42	6	
5/30/2017	145	123	149	42	6	
5/31/2017	145	123	144	42	6	
6/1/2017	144	124	144	42	6	
6/2/2017	142	122	144	42	6	
6/3/2017	140	123	144	42	6	
6/4/2017	139	123	144	42	6	
6/5/2017	139	123	146	42	6	
6/6/2017	135	124	123	42	6	
6/7/2017	130	125	123	42	6	
6/8/2017	139	127	144	42	6	
6/9/2017	138	127	142	42	6	
6/10/2017	138	128	141	42	6	
6/11/2017	132	122	143	42	6	
6/12/2017	132	124	142	42	6	
6/13/2017	132	124	139	42	6	
6/14/2017	132	124	144	42	6	
6/15/2017	131	124	143	42	6	
6/16/2017	130	124	142	42	6	
6/17/2017	130	124	144	42	6	
6/18/2017	130	124	143	42	6	
6/19/2017	130	124	141	42	6	
6/20/2017	129	124	140	42	6	
6/21/2017	128	124	140	42	6	
6/22/2017	152	122	147	42	6	
6/23/2017	153	124	145	42	6	
6/24/2017	152	125	148	42	6	
6/25/2017	152	125	148	42	6	
6/26/2017	151	124	147	42	6	
6/27/2017	151	125	146	42	6	
6/28/2017	150	125	143	42	6	
6/29/2017	148	123	148	42	6	
6/30/2017	147	123	146	42	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: HH1-5 Flow Summary  
2nd Quarter 2017  
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
4/1/2017	130	124	161	28	7	
4/2/2017	119	127	160	27	7	
4/3/2017	120	123	158	22	7	
4/4/2017	117	126	159	22	7	
4/5/2017	119	126	161	22	7	
4/6/2017	117	126	158	22	7	
4/7/2017	115	127	157	22	7	
4/8/2017	115	127	159	22	7	
4/9/2017	112	125	160	22	7	
4/10/2017	110	125	160	22	7	
4/11/2017	109	125	155	22	7	
4/12/2017	109	125	153	22	7	
4/13/2017	97	127	148	23	7	
4/14/2017	104	119	149	22	7	
4/15/2017	107	115	153	23	7	
4/16/2017	119	111	159	23	7	
4/17/2017	110	113	159	23	7	
4/18/2017	118	112	156	23	7	
4/19/2017	117	114	156	23	7	
4/20/2017	118	114	155	23	7	
4/21/2017	116	114	153	23	7	
4/22/2017	118	113	153	23	7	
4/23/2017	116	114	154	23	7	
4/24/2017	117	114	155	23	7	
4/25/2017	115	114	153	23	7	
4/26/2017	115	114	153	23	7	
4/27/2017	118	120	134	23	7	
4/28/2017	116	119	136	23	6	
4/29/2017	116	120	135	23	6	
4/30/2017	116	120	137	23	6	
5/1/2017	116	119	135	23	6	
5/2/2017	113	120	123	23	5	
5/3/2017	107	119	121	23	5	
5/4/2017	110	117	120	23	5	
5/5/2017	108	120	119	22	5	
5/6/2017	103	118	119	22	5	
5/7/2017	102	118	119	22	5	
5/8/2017	102	118	118	22	5	
5/9/2017	102	118	117	22	5	
5/10/2017	102	117	118	22	5	
5/11/2017	102	117	118	22	5	
5/12/2017	104	119	119	22	5	
5/13/2017	115	120	121	22	5	
5/14/2017	115	120	121	22	5	
5/15/2017	114	120	120	22	5	
5/16/2017	114	120	120	23	5	
5/17/2017	118	125	121	23	5	
5/18/2017	118	126	120	23	5	
5/19/2017	117	126	122	23	5	
5/20/2017	119	125	121	23	5	



**Attachment 2: HH1-5 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	117	126	121	23	5	
5/22/2017	116	126	119	23	5	
5/23/2017	106	129	119	22	5	
5/24/2017	109	126	125	22	5	
5/25/2017	109	126	127	22	5	
5/26/2017	109	126	125	22	5	
5/27/2017	103	128	123	22	5	
5/28/2017	101	123	122	22	5	
5/29/2017	100	122	118	22	5	
5/30/2017	100	123	121	22	5	
5/31/2017	101	121	126	22	5	
6/1/2017	101	122	123	22	5	
6/2/2017	100	120	122	22	5	
6/3/2017	100	120	122	22	5	
6/4/2017	96	119	122	22	5	
6/5/2017	97	119	123	22	5	
6/6/2017	96	119	121	22	5	
6/7/2017	94	120	120	22	5	
6/8/2017	97	123	122	22	5	
6/9/2017	96	124	122	22	5	
6/10/2017	91	125	121	22	5	
6/11/2017	92	126	121	22	5	
6/12/2017	92	121	120	22	5	
6/13/2017	94	120	119	22	5	
6/14/2017	99	116	122	22	5	
6/15/2017	101	120	121	22	5	
6/16/2017	100	120	122	22	5	
6/17/2017	100	120	122	22	5	
6/18/2017	100	120	122	22	5	
6/19/2017	100	120	120	22	5	
6/20/2017	93	123	119	22	5	
6/21/2017	96	123	119	22	5	
6/22/2017	98	123	120	22	5	
6/23/2017	99	126	120	22	5	
6/24/2017	97	126	120	22	5	
6/25/2017	97	126	120	22	5	
6/26/2017	93	123	119	22	5	
6/27/2017	94	125	119	22	5	
6/28/2017	93	125	115	22	5	
6/29/2017	96	124	118	22	5	
6/30/2017	96	124	117	22	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

**Attachment 2: HH1-6 Flow Summary  
2nd Quarter 2017  
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
4/1/2017	171	128	193	26	10	
4/2/2017	171	128	194	26	10	
4/3/2017	169	129	191	28	10	
4/4/2017	150	129	179	28	10	
4/5/2017	158	128	191	27	10	
4/6/2017	158	127	188	27	10	
4/7/2017	157	127	187	27	10	
4/8/2017	156	127	191	27	10	
4/9/2017	156	128	192	27	10	
4/10/2017	158	127	193	27	10	
4/11/2017	157	128	189	27	10	
4/12/2017	157	128	186	27	11	
4/13/2017	156	127	185	28	11	
4/14/2017	170	119	189	28	11	
4/15/2017	169	118	193	28	11	
4/16/2017	168	118	198	28	11	
4/17/2017	166	116	197	28	11	
4/18/2017	164	117	194	28	11	
4/19/2017	162	117	194	28	11	
4/20/2017	161	117	171	28	11	
4/21/2017	160	117	187	28	11	
4/22/2017	164	116	187	28	11	
4/23/2017	158	117	187	28	11	
4/24/2017	159	117	189	28	11	
4/25/2017	160	117	186	28	11	
4/26/2017	159	117	186	28	11	
4/27/2017	165	124	193	28	11	
4/28/2017	163	124	193	28	11	
4/29/2017	163	124	192	28	11	
4/30/2017	161	124	175	28	11	
5/1/2017	157	124	174	28	10	
5/2/2017	161	124	180	28	11	
5/3/2017	149	123	184	27	11	
5/4/2017	133	124	175	23	11	
5/5/2017	134	124	176	23	11	
5/6/2017	146	124	175	23	10	
5/7/2017	146	124	178	23	10	
5/8/2017	145	124	177	23	11	
5/9/2017	152	124	191	23	11	
5/10/2017	149	124	193	22	11	
5/11/2017	149	124	189	23	11	
5/12/2017	148	124	192	25	11	
5/13/2017	151	128	194	23	11	
5/14/2017	151	128	196	23	11	
5/15/2017	149	128	192	23	11	
5/16/2017	148	128	192	23	11	
5/17/2017	150	132	195	23	11	
5/18/2017	148	130	191	23	11	
5/19/2017	146	129	193	23	11	
5/20/2017	144	129	172	23	10	

**Attachment 2: HH1-6 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	144	129	170	23	10	
5/22/2017	139	129	167	22	10	
5/23/2017	138	129	170	23	10	
5/24/2017	149	130	180	22	10	
5/25/2017	149	130	177	22	10	
5/26/2017	149	129	179	22	10	
5/27/2017	146	129	176	22	10	
5/28/2017	145	130	176	22	10	
5/29/2017	123	132	164	22	10	
5/30/2017	122	132	172	22	10	
5/31/2017	137	130	182	22	10	
6/1/2017	134	131	180	22	10	
6/2/2017	133	129	178	22	10	
6/3/2017	132	129	168	22	10	
6/4/2017	140	125	170	22	10	
6/5/2017	139	125	172	22	10	
6/6/2017	137	124	168	22	10	
6/7/2017	136	124	166	22	10	
6/8/2017	138	128	171	22	10	
6/9/2017	138	128	168	22	10	
6/10/2017	138	128	167	22	10	
6/11/2017	0	0	0	0	0	Off line
6/12/2017	136	129	162	23	10	
6/13/2017	136	130	162	23	10	
6/14/2017	136	129	166	23	10	
6/15/2017	136	129	165	23	10	
6/16/2017	134	130	164	23	10	
6/17/2017	133	130	167	23	10	
6/18/2017	133	129	166	23	10	
6/19/2017	133	129	174	23	10	
6/20/2017	132	130	161	23	10	
6/21/2017	130	130	173	23	10	
6/22/2017	130	129	164	23	10	
6/23/2017	131	131	173	23	10	
6/24/2017	134	129	164	23	10	
6/25/2017	134	129	165	23	10	
6/26/2017	134	129	173	23	10	
6/27/2017	133	129	163	23	10	
6/28/2017	110	129	169	23	11	
6/29/2017	110	129	180	23	11	
6/30/2017	121	126	191	23	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: HH1-7 Flow Summary  
2nd Quarter 2017  
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
4/1/2017	140	130	153	38	6	
4/2/2017	139	131	153	38	6	
4/3/2017	139	130	151	38	6	
4/4/2017	138	131	152	38	7	
4/5/2017	154	131	170	39	7	
4/6/2017	176	131	168	39	7	
4/7/2017	174	131	168	39	8	
4/8/2017	202	129	197	39	8	
4/9/2017	202	129	197	39	8	
4/10/2017	199	130	198	39	8	
4/11/2017	196	130	195	39	8	
4/12/2017	197	130	192	39	8	
4/13/2017	193	129	186	39	8	
4/14/2017	185	123	187	39	8	
4/15/2017	188	121	191	39	8	
4/16/2017	195	121	196	39	8	
4/17/2017	194	119	195	39	8	
4/18/2017	190	119	192	39	8	
4/19/2017	206	118	193	39	10	
4/20/2017	208	119	229	39	10	
4/21/2017	217	119	224	39	10	
4/22/2017	218	118	222	39	10	
4/23/2017	216	119	222	39	10	
4/24/2017	216	119	222	39	10	
4/25/2017	218	119	220	39	10	
4/26/2017	215	120	221	39	10	
4/27/2017	216	121	227	39	10	
4/28/2017	217	125	228	39	10	
4/29/2017	215	125	227	39	10	
4/30/2017	214	125	230	39	10	
5/1/2017	210	125	212	39	9	
5/2/2017	214	125	217	39	9	
5/3/2017	204	125	197	39	8	
5/4/2017	197	125	193	39	8	
5/5/2017	196	125	191	39	8	
5/6/2017	190	125	191	39	8	
5/7/2017	190	126	193	39	8	
5/8/2017	189	125	193	39	8	
5/9/2017	191	125	193	39	8	
5/10/2017	189	125	193	39	9	
5/11/2017	189	125	211	39	9	
5/12/2017	193	125	215	39	9	
5/13/2017	198	125	217	39	9	
5/14/2017	200	125	218	39	9	
5/15/2017	199	125	215	39	9	
5/16/2017	203	125	216	38	9	
5/17/2017	203	128	219	38	9	
5/18/2017	199	126	215	38	9	
5/19/2017	190	125	216	38	9	
5/20/2017	189	125	218	38	9	

**Attachment 2: HH1-7 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	189	125	216	38	9	
5/22/2017	179	126	213	38	9	
5/23/2017	184	126	182	42	7	
5/24/2017	185	126	187	42	7	
5/25/2017	188	127	191	42	7	
5/26/2017	169	128	185	41	7	
5/27/2017	169	126	182	42	7	
5/28/2017	170	126	183	42	7	
5/29/2017	163	126	173	38	7	
5/30/2017	165	126	182	41	7	
5/31/2017	166	126	128	41	7	
6/1/2017	169	126	184	41	7	
6/2/2017	168	124	182	41	7	
6/3/2017	167	124	181	41	7	
6/4/2017	164	124	183	41	7	
6/5/2017	163	125	164	41	7	
6/6/2017	162	125	160	41	6	
6/7/2017	157	126	158	41	6	
6/8/2017	162	130	163	40	6	
6/9/2017	164	130	160	41	6	
6/10/2017	165	129	158	41	6	
6/11/2017	164	130	162	41	6	
6/12/2017	154	130	159	41	6	
6/13/2017	153	130	156	41	6	
6/14/2017	158	130	160	41	6	
6/15/2017	160	130	160	41	6	
6/16/2017	158	130	159	41	6	
6/17/2017	156	130	161	41	6	
6/18/2017	156	130	160	41	5	
6/19/2017	156	130	158	41	5	
6/20/2017	152	130	156	41	5	
6/21/2017	153	130	156	41	5	
6/22/2017	153	130	158	41	5	
6/23/2017	149	131	156	41	5	
6/24/2017	151	131	158	41	5	
6/25/2017	151	130	158	41	5	
6/26/2017	150	131	156	41	5	
6/27/2017	150	131	156	41	5	
6/28/2017	160	130	153	41	5	
6/29/2017	163	130	158	41	5	
6/30/2017	162	130	158	41	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

**Attachment 2: HH1-8 Flow Summary  
2nd Quarter 2017  
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
4/1/2017	188	121	196	40	10	
4/2/2017	188	121	195	40	10	
4/3/2017	187	121	194	40	10	
4/4/2017	208	121	199	40	10	
4/5/2017	205	121	203	40	11	
4/6/2017	208	121	214	40	12	
4/7/2017	250	124	237	41	12	
4/8/2017	255	123	221	41	11	
4/9/2017	254	123	222	41	11	
4/10/2017	242	123	203	41	11	
4/11/2017	264	124	218	41	13	
4/12/2017	260	121	237	41	12	
4/13/2017	250	121	227	41	12	
4/14/2017	240	116	227	41	12	
4/15/2017	235	114	218	41	12	
4/16/2017	235	114	237	41	12	
4/17/2017	230	110	238	41	12	
4/18/2017	228	111	232	41	12	
4/19/2017	217	112	223	41	12	
4/20/2017	249	109	228	41	13	
4/21/2017	240	110	241	41	13	
4/22/2017	239	110	239	41	13	
4/23/2017	235	111	239	41	13	
4/24/2017	234	111	239	41	13	
4/25/2017	230	111	235	41	13	
4/26/2017	227	112	237	41	13	
4/27/2017	232	117	244	41	13	
4/28/2017	230	116	244	41	13	
4/29/2017	229	117	242	41	13	
4/30/2017	228	117	244	41	13	
5/1/2017	226	117	244	41	13	
5/2/2017	230	116	249	41	13	
5/3/2017	253	117	255	41	13	
5/4/2017	242	117	246	41	13	
5/5/2017	237	118	242	41	13	
5/6/2017	234	118	241	41	13	
5/7/2017	233	119	224	41	13	
5/8/2017	232	119	224	41	12	
5/9/2017	230	119	224	41	12	
5/10/2017	227	119	225	41	13	
5/11/2017	247	117	241	41	13	
5/12/2017	268	117	247	41	13	
5/13/2017	270	117	246	41	13	
5/14/2017	268	117	248	41	13	
5/15/2017	261	118	244	41	13	
5/16/2017	264	118	244	41	13	
5/17/2017	269	124	248	41	13	
5/18/2017	170	120	136	40	9	
5/19/2017	188	117	154	37	9	
5/20/2017	201	117	165	37	9	

**Attachment 2: HH1-8 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	200	117	176	37	9	
5/22/2017	190	117	173	36	10	
5/23/2017	195	116	195	37	10	
5/24/2017	199	122	197	37	10	
5/25/2017	194	122	198	37	10	
5/26/2017	190	123	193	37	10	
5/27/2017	186	122	190	37	10	
5/28/2017	187	122	178	37	9	
5/29/2017	175	121	168	37	9	
5/30/2017	176	123	157	37	9	
5/31/2017	179	123	180	37	9	
6/1/2017	178	123	172	37	9	
6/2/2017	177	122	170	37	9	
6/3/2017	173	122	169	37	9	
6/4/2017	180	122	172	37	9	
6/5/2017	173	123	176	37	12	
6/6/2017	172	122	185	37	10	
6/7/2017	177	122	185	37	10	
6/8/2017	195	124	191	37	11	
6/9/2017	208	123	224	37	12	
6/10/2017	208	123	223	37	12	
6/11/2017	207	124	226	37	12	
6/12/2017	202	124	222	38	12	
6/13/2017	206	123	220	38	12	
6/14/2017	209	122	227	38	12	
6/15/2017	209	122	226	38	12	
6/16/2017	208	124	225	38	12	
6/17/2017	219	122	230	38	12	
6/18/2017	218	122	229	38	12	
6/19/2017	214	123	226	38	12	
6/20/2017	202	124	222	38	12	
6/21/2017	206	122	222	38	12	
6/22/2017	204	123	225	38	12	
6/23/2017	221	123	225	38	12	
6/24/2017	218	123	226	38	12	
6/25/2017	216	124	226	38	12	
6/26/2017	214	123	224	38	12	
6/27/2017	212	123	224	38	12	
6/28/2017	206	123	219	38	12	
6/29/2017	212	122	209	38	12	
6/30/2017	210	122	213	38	12	

\* 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  
2nd Quarter 2017  
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
4/1/2017	290	124	244	45	13	
4/2/2017	290	124	244	45	14	
4/3/2017	289	124	241	45	14	
4/4/2017	287	125	243	45	13	
4/5/2017	284	125	250	45	14	
4/6/2017	290	124	245	45	13	
4/7/2017	288	124	262	45	13	
4/8/2017	286	124	270	45	13	
4/9/2017	288	124	272	45	13	
4/10/2017	290	124	272	45	13	
4/11/2017	286	124	268	45	14	
4/12/2017	287	124	262	45	15	
4/13/2017	300	123	258	44	15	
4/14/2017	295	117	260	43	15	
4/15/2017	291	115	263	43	13	
4/16/2017	292	115	267	43	14	
4/17/2017	292	114	266	46	15	
4/18/2017	292	114	260	46	15	
4/19/2017	292	114	259	46	13	
4/20/2017	289	114	258	45	13	
4/21/2017	282	115	252	45	13	
4/22/2017	290	114	251	45	13	
4/23/2017	289	114	251	45	13	
4/24/2017	295	114	253	45	13	
4/25/2017	283	114	247	45	13	
4/26/2017	294	114	234	45	12	
4/27/2017	309	113	245	45	12	
4/28/2017	317	116	247	45	12	
4/29/2017	316	116	242	45	12	
4/30/2017	315	116	246	45	12	
5/1/2017	314	116	243	45	12	
5/2/2017	316	116	249	45	12	
5/3/2017	310	116	248	45	14	
5/4/2017	309	116	272	45	14	
5/5/2017	303	116	270	45	14	
5/6/2017	305	116	270	45	14	
5/7/2017	305	116	275	45	14	
5/8/2017	305	116	275	45	14	
5/9/2017	314	116	279	45	14	
5/10/2017	323	115	273	44	14	
5/11/2017	326	115	273	44	14	
5/12/2017	323	115	275	45	14	
5/13/2017	303	116	281	45	14	
5/14/2017	300	116	267	45	13	
5/15/2017	297	116	261	45	14	
5/16/2017	298	116	270	45	14	
5/17/2017	307	121	281	45	14	
5/18/2017	310	122	295	45	14	
5/19/2017	299	122	288	45	14	
5/20/2017	297	122	286	45	14	



**Attachment 2: HH1-9 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	297	122	283	45	14	
5/22/2017	295	122	280	45	14	
5/23/2017	296	122	277	45	14	
5/24/2017	321	119	293	45	14	
5/25/2017	312	121	294	45	14	
5/26/2017	307	121	285	45	14	
5/27/2017	300	122	278	44	14	
5/28/2017	299	122	281	45	14	
5/29/2017	275	111	281	45	13	
5/30/2017	304	122	287	46	13	
5/31/2017	308	122	280	46	13	
6/1/2017	306	122	283	45	13	
6/2/2017	302	120	287	44	16	
6/3/2017	302	120	285	44	16	
6/4/2017	302	120	287	44	14	
6/5/2017	302	120	243	44	14	
6/6/2017	302	120	261	44	14	
6/7/2017	302	120	274	44	16	
6/8/2017	302	120	273	44	16	
6/9/2017	303	124	276	45	16	
6/10/2017	302	124	274	45	16	
6/11/2017	300	125	274	45	16	
6/12/2017	299	125	270	45	11	
6/13/2017	298	124	270	45	11	
6/14/2017	316	124	282	45	11	
6/15/2017	319	124	292	45	12	
6/16/2017	317	124	291	45	12	
6/17/2017	311	124	296	46	12	
6/18/2017	310	124	296	46	12	
6/19/2017	308	124	291	46	12	
6/20/2017	308	124	286	45	12	
6/21/2017	305	124	286	45	12	
6/22/2017	306	124	287	45	12	
6/23/2017	299	125	287	45	12	
6/24/2017	301	125	289	45	12	
6/25/2017	299	125	288	45	12	
6/26/2017	300	125	282	45	12	
6/27/2017	297	125	280	45	12	
6/28/2017	294	125	273	45	12	
6/29/2017	300	125	283	45	12	
6/30/2017	301	124	283	45	12	

\* 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  
2nd Quarter 2017  
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
4/1/2017	197	122	197	51	14	
4/2/2017	196	123	197	51	14	
4/3/2017	195	123	195	51	14	
4/4/2017	191	122	193	52	14	
4/5/2017	205	123	200	52	14	
4/6/2017	203	123	195	52	14	
4/7/2017	202	123	193	52	14	
4/8/2017	202	123	198	52	14	
4/9/2017	201	123	198	52	14	
4/10/2017	198	123	198	52	14	
4/11/2017	197	123	193	52	14	
4/12/2017	197	124	192	52	14	
4/13/2017	191	124	190	52	14	
4/14/2017	223	114	197	53	16	
4/15/2017	256	109	228	52	16	
4/16/2017	254	109	231	53	16	
4/17/2017	261	117	232	54	18	
4/18/2017	249	118	260	54	18	
4/19/2017	252	118	260	54	18	
4/20/2017	246	116	256	54	18	
4/21/2017	242	117	254	54	18	
4/22/2017	244	117	253	54	18	
4/23/2017	240	117	254	54	18	
4/24/2017	239	117	256	54	18	
4/25/2017	232	117	251	54	18	
4/26/2017	230	117	252	54	18	
4/27/2017	232	117	260	54	18	
4/28/2017	241	117	261	54	18	
4/29/2017	240	118	258	54	18	
4/30/2017	239	118	258	54	18	
5/1/2017	239	118	252	54	18	
5/2/2017	245	117	259	54	18	
5/3/2017	242	117	254	54	18	
5/4/2017	242	117	247	54	18	
5/5/2017	239	117	246	54	18	
5/6/2017	237	118	243	54	18	
5/7/2017	245	117	246	54	18	
5/8/2017	244	117	245	54	17	
5/9/2017	243	117	243	54	17	
5/10/2017	240	117	244	54	17	
5/11/2017	257	116	246	54	17	
5/12/2017	256	116	248	54	17	
5/13/2017	256	116	246	54	17	
5/14/2017	254	116	249	54	17	
5/15/2017	251	117	244	54	17	
5/16/2017	253	116	242	54	18	
5/17/2017	272	124	262	54	18	
5/18/2017	273	123	253	54	18	
5/19/2017	270	122	251	54	18	
5/20/2017	269	121	252	54	18	

**Attachment 2: HH1-10 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	268	122	250	54	18	
5/22/2017	261	122	248	54	18	
5/23/2017	260	122	248	54	18	
5/24/2017	267	125	266	53	18	
5/25/2017	263	125	263	53	18	
5/26/2017	261	125	254	53	18	
5/27/2017	257	123	249	54	18	
5/28/2017	256	122	249	54	18	
5/29/2017	247	123	232	53	17	
5/30/2017	248	123	237	53	17	
5/31/2017	247	123	243	53	17	
6/1/2017	243	123	232	53	17	
6/2/2017	242	121	230	53	17	
6/3/2017	238	122	231	53	18	
6/4/2017	237	123	250	53	18	
6/5/2017	231	123	247	53	17	
6/6/2017	228	123	236	53	17	
6/7/2017	220	124	233	53	17	
6/8/2017	221	125	240	53	17	
6/9/2017	221	125	221	53	16	
6/10/2017	216	125	219	53	16	
6/11/2017	215	126	221	53	16	
6/12/2017	214	122	218	53	16	
6/13/2017	213	122	217	53	16	
6/14/2017	212	122	205	53	16	
6/15/2017	220	123	202	53	16	
6/16/2017	216	123	200	53	15	
6/17/2017	213	123	168	53	14	
6/18/2017	212	123	173	53	13	
6/19/2017	212	124	170	53	13	
6/20/2017	210	122	167	53	13	
6/21/2017	207	123	166	53	13	
6/22/2017	207	122	170	53	13	
6/23/2017	203	123	163	53	13	
6/24/2017	201	123	167	53	13	
6/25/2017	201	123	165	53	13	
6/26/2017	200	123	162	53	13	
6/27/2017	200	122	160	53	13	
6/28/2017	195	123	157	53	13	
6/29/2017	201	122	157	53	12	
6/30/2017	199	122	161	53	12	

\* 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  
2nd Quarter 2017  
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
4/1/2017	270	121	283	49	18	
4/2/2017	269	121	294	49	18	
4/3/2017	267	121	286	49	19	
4/4/2017	272	121	291	49	18	
4/5/2017	279	120	277	49	18	
4/6/2017	278	120	279	49	18	
4/7/2017	278	120	278	49	18	
4/8/2017	289	121	284	49	18	
4/9/2017	288	122	285	49	18	
4/10/2017	287	122	283	49	18	
4/11/2017	274	123	275	49	18	
4/12/2017	275	121	274	49	18	
4/13/2017	211	128	232	50	18	
4/14/2017	262	116	242	49	17	
4/15/2017	265	114	257	50	17	
4/16/2017	268	113	260	50	18	
4/17/2017	272	116	263	50	18	
4/18/2017	267	117	255	50	18	
4/19/2017	266	117	252	50	18	
4/20/2017	260	115	248	50	18	
4/21/2017	256	115	246	50	18	
4/22/2017	240	117	244	50	18	
4/23/2017	251	116	247	50	18	
4/24/2017	255	115	249	50	18	
4/25/2017	249	116	244	50	18	
4/26/2017	250	116	246	50	18	
4/27/2017	249	115	249	50	18	
4/28/2017	248	115	250	50	18	
4/29/2017	247	116	245	50	18	
4/30/2017	249	116	244	50	18	
5/1/2017	249	115	239	50	18	
5/2/2017	255	115	243	50	18	
5/3/2017	254	115	235	50	18	
5/4/2017	251	115	232	50	18	
5/5/2017	242	116	241	50	18	
5/6/2017	249	116	238	50	18	
5/7/2017	253	118	239	50	18	
5/8/2017	253	118	238	50	18	
5/9/2017	253	118	236	50	18	
5/10/2017	252	118	237	50	18	
5/11/2017	249	118	239	50	18	
5/12/2017	252	121	240	50	18	
5/13/2017	249	121	239	50	18	
5/14/2017	248	121	240	50	18	
5/15/2017	245	121	237	50	19	
5/16/2017	249	121	257	50	19	
5/17/2017	252	122	274	50	19	
5/18/2017	253	121	262	50	19	
5/19/2017	248	121	246	50	19	
5/20/2017	244	121	232	50	17	

**Attachment 2: HH1-11 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	244	122	230	50	17	
5/22/2017	235	122	228	49	17	
5/23/2017	236	122	228	49	17	
5/24/2017	237	119	241	50	17	
5/25/2017	232	121	242	50	17	
5/26/2017	235	121	234	50	17	
5/27/2017	230	121	232	50	17	
5/28/2017	228	121	232	50	17	
5/29/2017	222	120	232	50	16	
5/30/2017	222	120	236	50	16	
5/31/2017	221	120	243	50	16	
6/1/2017	220	120	236	50	16	
6/2/2017	218	119	233	50	16	
6/3/2017	216	119	217	50	15	
6/4/2017	218	121	216	50	15	
6/5/2017	217	121	210	50	15	
6/6/2017	212	121	217	50	15	
6/7/2017	231	120	218	49	15	
6/8/2017	238	123	224	49	15	
6/9/2017	239	123	226	49	15	
6/10/2017	237	123	223	49	15	
6/11/2017	235	124	223	49	15	
6/12/2017	222	121	192	49	14	
6/13/2017	232	121	192	49	14	
6/14/2017	232	121	196	49	15	
6/15/2017	240	122	215	49	15	
6/16/2017	236	122	212	49	15	
6/17/2017	234	122	215	49	15	
6/18/2017	233	122	214	49	15	
6/19/2017	233	123	212	49	15	
6/20/2017	227	121	209	49	15	
6/21/2017	221	122	209	49	15	
6/22/2017	217	121	203	49	15	
6/23/2017	216	121	200	49	15	
6/24/2017	215	122	202	49	15	
6/25/2017	219	121	207	49	15	
6/26/2017	207	120	204	49	15	
6/27/2017	206	121	201	49	15	
6/28/2017	207	120	198	49	15	
6/29/2017	212	120	200	49	15	
6/30/2017	210	120	189	49	15	

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

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-12 Flow Summary  
2nd Quarter 2017  
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
4/1/2017	282	121	264	47	16	
4/2/2017	282	121	262	47	16	
4/3/2017	282	121	260	47	16	
4/4/2017	282	121	256	47	16	
4/5/2017	279	122	265	47	16	
4/6/2017	277	122	257	47	16	
4/7/2017	275	122	254	47	16	
4/8/2017	275	122	260	47	16	
4/9/2017	274	122	263	47	16	
4/10/2017	270	121	261	47	16	
4/11/2017	268	121	254	47	16	
4/12/2017	267	121	254	47	16	
4/13/2017	272	120	249	47	16	
4/14/2017	263	114	255	47	16	
4/15/2017	263	112	256	47	16	
4/16/2017	264	112	250	47	16	
4/17/2017	260	111	252	47	15	
4/18/2017	258	112	247	47	15	
4/19/2017	258	112	248	47	15	
4/20/2017	257	112	245	47	15	
4/21/2017	254	112	244	47	15	
4/22/2017	258	112	241	46	15	
4/23/2017	256	112	228	46	15	
4/24/2017	254	112	230	46	14	
4/25/2017	249	111	226	46	14	
4/26/2017	247	111	229	46	14	
4/27/2017	251	116	233	46	14	
4/28/2017	248	115	234	46	14	
4/29/2017	252	115	221	46	14	
4/30/2017	251	115	231	46	14	
5/1/2017	252	115	218	46	14	
5/2/2017	256	115	221	46	16	
5/3/2017	259	115	242	46	16	
5/4/2017	278	115	241	47	16	
5/5/2017	293	115	242	47	16	
5/6/2017	269	118	243	46	16	
5/7/2017	270	118	244	45	16	
5/8/2017	270	118	243	45	16	
5/9/2017	269	118	242	47	16	
5/10/2017	281	117	244	45	16	
5/11/2017	280	117	248	45	16	
5/12/2017	282	120	246	45	15	
5/13/2017	281	120	245	45	15	
5/14/2017	281	120	246	45	15	
5/15/2017	278	120	242	45	15	
5/16/2017	291	119	243	45	15	
5/17/2017	301	124	242	45	15	
5/18/2017	300	121	252	45	15	
5/19/2017	292	121	252	45	15	
5/20/2017	293	121	253	45	15	

**Attachment 2: HH1-12 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	292	122	251	46	15	
5/22/2017	285	122	252	46	15	
5/23/2017	286	122	251	48	15	
5/24/2017	297	121	260	48	15	
5/25/2017	290	122	245	48	15	
5/26/2017	289	121	255	48	15	
5/27/2017	284	122	250	48	15	
5/28/2017	286	122	251	48	15	
5/29/2017	277	116	247	48	15	
5/30/2017	296	128	253	48	15	
5/31/2017	299	129	263	48	15	
6/1/2017	298	130	250	48	15	
6/2/2017	293	128	248	48	15	
6/3/2017	290	127	250	48	15	
6/4/2017	276	121	248	47	15	
6/5/2017	272	122	242	47	15	
6/6/2017	270	122	239	47	15	
6/7/2017	270	122	239	47	15	
6/8/2017	270	122	239	47	15	
6/9/2017	270	122	239	47	15	
6/10/2017	270	122	239	47	15	
6/11/2017	265	120	255	47	15	
6/12/2017	260	125	252	47	15	
6/13/2017	259	121	259	47	16	
6/14/2017	259	121	259	47	16	
6/15/2017	259	121	259	47	16	
6/16/2017	266	122	251	48	16	
6/17/2017	267	121	252	48	16	
6/18/2017	266	122	253	48	16	
6/19/2017	267	122	249	48	16	
6/20/2017	267	122	247	48	16	
6/21/2017	262	122	256	48	16	
6/22/2017	258	122	256	48	16	
6/23/2017	262	122	252	48	15	
6/24/2017	259	122	247	48	15	
6/25/2017	260	122	246	48	15	
6/26/2017	259	121	243	48	15	
6/27/2017	256	122	238	48	15	
6/28/2017	252	122	234	48	15	
6/29/2017	254	121	241	48	15	
6/30/2017	254	121	229	48	15	

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

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-13 Flow Summary  
2nd Quarter 2017  
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
4/1/2017	416	122	430	44	22	
4/2/2017	415	122	426	44	22	
4/3/2017	412	122	424	44	22	
4/4/2017	412	123	423	45	22	
4/5/2017	418	122	413	45	22	
4/6/2017	372	125	409	45	22	
4/7/2017	376	124	408	42	22	
4/8/2017	376	124	402	42	22	
4/9/2017	375	124	403	42	21	
4/10/2017	371	125	389	42	21	
4/11/2017	362	125	378	41	21	
4/12/2017	365	125	379	42	21	
4/13/2017	361	124	384	42	21	
4/14/2017	343	119	394	42	21	
4/15/2017	345	117	382	42	21	
4/16/2017	344	117	380	42	21	
4/17/2017	344	115	370	42	20	
4/18/2017	353	114	363	42	20	
4/19/2017	355	114	361	42	20	
4/20/2017	354	114	372	42	20	
4/21/2017	361	114	361	40	20	
4/22/2017	358	114	368	39	20	
4/23/2017	355	114	376	39	20	
4/24/2017	359	114	378	41	21	
4/25/2017	386	113	378	41	21	
4/26/2017	383	113	362	41	20	
4/27/2017	380	113	377	41	20	
4/28/2017	384	116	362	41	20	
4/29/2017	329	119	349	42	21	
4/30/2017	337	118	353	43	23	
5/1/2017	305	120	350	41	22	
5/2/2017	332	118	387	41	23	
5/3/2017	333	118	393	41	23	
5/4/2017	343	118	396	42	23	
5/5/2017	344	118	393	42	23	
5/6/2017	344	118	389	42	22	
5/7/2017	345	118	391	42	22	
5/8/2017	344	118	390	42	22	
5/9/2017	343	118	387	42	22	
5/10/2017	341	118	391	42	22	
5/11/2017	340	118	391	42	22	
5/12/2017	341	117	392	42	22	
5/13/2017	345	117	394	42	22	
5/14/2017	344	117	395	42	22	
5/15/2017	344	117	391	42	22	
5/16/2017	342	117	393	42	22	
5/17/2017	367	121	413	42	22	
5/18/2017	354	122	400	40	22	
5/19/2017	348	122	400	40	22	
5/20/2017	340	123	400	39	22	



**Attachment 2: HH1-13 Flow Summary  
2nd Quarter 2017  
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
5/21/2017	342	123	400	39	22	
5/22/2017	378	121	404	40	22	
5/23/2017	355	122	402	40	22	
5/24/2017	376	119	403	40	22	
5/25/2017	369	121	393	40	21	
5/26/2017	372	121	403	39	21	
5/27/2017	375	121	397	39	21	
5/28/2017	375	121	399	39	21	
5/29/2017	365	116	376	39	19	
5/30/2017	381	121	386	39	19	
5/31/2017	376	121	396	39	19	
6/1/2017	377	122	393	39	19	
6/2/2017	373	120	390	39	19	
6/3/2017	372	120	392	39	19	
6/4/2017	384	119	393	39	19	
6/5/2017	384	119	396	39	20	
6/6/2017	381	119	405	39	20	
6/7/2017	373	120	400	39	20	
6/8/2017	383	123	401	39	20	
6/9/2017	382	123	399	39	20	
6/10/2017	386	123	411	39	20	
6/11/2017	385	123	413	39	20	
6/12/2017	384	124	409	39	20	
6/13/2017	381	124	406	39	20	
6/14/2017	383	123	411	39	22	
6/15/2017	367	124	407	39	20	
6/16/2017	374	124	404	39	20	
6/17/2017	369	124	408	39	20	
6/18/2017	363	124	395	39	19	
6/19/2017	343	126	387	38	19	
6/20/2017	339	126	385	38	19	
6/21/2017	357	125	373	38	19	
6/22/2017	361	124	391	38	19	
6/23/2017	340	126	384	38	19	
6/24/2017	355	125	395	38	19	
6/25/2017	357	125	394	38	19	
6/26/2017	357	125	391	38	19	
6/27/2017	357	125	405	38	19	
6/28/2017	353	125	396	38	19	
6/29/2017	361	125	406	38	19	
6/30/2017	358	125	406	38	19	

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

gpm: gallons per minute

psi: pounds per square inch

**Attachment 3: Groundwater Level Measurement Data  
2nd Quarter 2017  
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-101	MU1 Ring	4/11/2017	168.53	
M-101	MU1 Ring	4/26/2017	159.11	
M-101	MU1 Ring	5/10/2017	179.40	
M-101	MU1 Ring	5/26/2017	164.25	
M-101	MU1 Ring	6/14/2017	165.25	
M-101	MU1 Ring	6/28/2017	176.23	
M-102	MU1 Ring	4/11/2017	172.75	
M-102	MU1 Ring	4/26/2017	162.91	
M-102	MU1 Ring	5/10/2017	180.89	
M-102	MU1 Ring	5/26/2017	167.58	
M-102	MU1 Ring	6/14/2017	169.03	
M-102	MU1 Ring	6/28/2017	181.20	
M-103A	MU1 Ring	4/11/2017	166.81	
M-103A	MU1 Ring	4/26/2017	156.01	
M-103A	MU1 Ring	5/10/2017	174.70	
M-103A	MU1 Ring	5/26/2017	159.73	
M-103A	MU1 Ring	6/14/2017	162.77	
M-103A	MU1 Ring	6/28/2017	175.29	
M-104	MU1 Ring	4/12/2017	184.29	
M-104	MU1 Ring	4/26/2017	173.88	
M-104	MU1 Ring	5/10/2017	183.15	
M-104	MU1 Ring	5/26/2017	179.49	
M-104	MU1 Ring	6/14/2017	180.31	
M-104	MU1 Ring	6/28/2017	185.00	
M-105	MU1 Ring	4/12/2017	185.93	
M-105	MU1 Ring	4/26/2017	177.61	
M-105	MU1 Ring	5/10/2017	183.40	
M-105	MU1 Ring	5/26/2017	183.33	
M-105	MU1 Ring	6/14/2017	182.00	
M-105	MU1 Ring	6/28/2017	183.00	
M-106	MU1 Ring	4/12/2017	180.00	
M-106	MU1 Ring	4/26/2017	172.33	
M-106	MU1 Ring	5/10/2017	176.91	
M-106	MU1 Ring	5/26/2017	178.16	
M-106	MU1 Ring	6/14/2017	183.84	
M-106	MU1 Ring	6/28/2017	175.35	
M-107	MU1 Ring	4/12/2017	186.39	
M-107	MU1 Ring	4/26/2017	183.68	
M-107	MU1 Ring	5/10/2017	193.27	
M-107	MU1 Ring	5/26/2017	195.05	
M-107	MU1 Ring	6/14/2017	194.23	
M-107	MU1 Ring	6/28/2017	190.39	
M-108	MU1 Ring	4/12/2017	185.14	
M-108	MU1 Ring	4/26/2017	183.86	
M-108	MU1 Ring	4/26/2017	183.86	
M-108	MU1 Ring	5/10/2017	193.74	
M-108	MU1 Ring	5/26/2017	195.93	
M-108	MU1 Ring	6/14/2017	195.14	
M-108	MU1 Ring	6/28/2017	190.77	

**Attachment 3: Groundwater Level Measurement Data  
2nd Quarter 2017  
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-109	MU1 Ring	4/12/2017	180.58	
M-109	MU1 Ring	4/26/2017	179.76	
M-109	MU1 Ring	5/10/2017	191.94	
M-109	MU1 Ring	5/26/2017	193.63	
M-109	MU1 Ring	6/14/2017	193.50	
M-109	MU1 Ring	6/28/2017	187.82	
M-110	MU1 Ring	4/12/2017	188.30	
M-110	MU1 Ring	4/26/2017	193.62	
M-110	MU1 Ring	5/10/2017	200.43	
M-110	MU1 Ring	5/26/2017	200.63	
M-110	MU1 Ring	6/14/2017	202.13	
M-110	MU1 Ring	6/28/2017	195.07	
M-111	MU1 Ring	4/12/2017	182.56	
M-111	MU1 Ring	4/27/2017	193.63	
M-111	MU1 Ring	5/10/2017	193.28	
M-111	MU1 Ring	5/26/2017	192.59	
M-111	MU1 Ring	6/14/2017	195.08	
M-111	MU1 Ring	6/28/2017	185.95	
M-112	MU1 Ring	4/12/2017	191.94	
M-112	MU1 Ring	4/27/2017	203.60	
M-112	MU1 Ring	5/10/2017	202.12	
M-112	MU1 Ring	5/26/2017	201.66	
M-112	MU1 Ring	6/14/2017	202.58	
M-112	MU1 Ring	6/28/2017	195.21	
M-113	MU1 Ring	4/11/2017	206.53	
M-113	MU1 Ring	4/24/2017	201.10	
M-113	MU1 Ring	5/9/2017	210.50	
M-113	MU1 Ring	5/23/2017	208.73	
M-113	MU1 Ring	6/13/2017	213.20	
M-113	MU1 Ring	6/27/2017	205.00	
M-114A	MU1 Ring	4/11/2017	213.99	
M-114A	MU1 Ring	4/24/2017	210.08	
M-114A	MU1 Ring	5/9/2017	197.05	
M-114A	MU1 Ring	5/23/2017	203.59	
M-114A	MU1 Ring	6/13/2017	205.03	
M-114A	MU1 Ring	6/27/2017	198.71	
M-115A	MU1 Ring	4/11/2017	218.95	
M-115A	MU1 Ring	4/24/2017	217.40	
M-115A	MU1 Ring	5/9/2017	200.10	
M-115A	MU1 Ring	5/23/2017	200.14	
M-115A	MU1 Ring	6/13/2017	198.62	
M-115A	MU1 Ring	6/27/2017	197.98	
M-116A	MU1 Ring	4/11/2017	211.23	
M-116A	MU1 Ring	4/24/2017	208.32	
M-116A	MU1 Ring	5/9/2017	191.75	
M-116A	MU1 Ring	5/23/2017	188.58	
M-116A	MU1 Ring	6/13/2017	187.92	
M-116A	MU1 Ring	6/27/2017	187.79	
M-117	MU1 Ring	4/11/2017	214.20	

**Attachment 3: Groundwater Level Measurement Data  
2nd Quarter 2017  
Lost Creek ISR Project PT788**

<b>Well ID</b>	<b>Well Type</b>	<b>Measure Date</b>	<b>Depth to Water (ft-bmp)</b>	<b>Comments</b>
M-117	MU1 Ring	4/24/2017	214.04	
M-117	MU1 Ring	5/9/2017	200.22	
M-117	MU1 Ring	5/23/2017	196.80	
M-117	MU1 Ring	6/13/2017	198.32	
M-117	MU1 Ring	6/27/2017	198.51	
M-118	MU1 Ring	4/11/2017	206.41	
M-118	MU1 Ring	4/24/2017	213.95	
M-118	MU1 Ring	5/9/2017	196.85	
M-118	MU1 Ring	5/23/2017	192.60	
M-118	MU1 Ring	6/13/2017	196.79	
M-118	MU1 Ring	6/27/2017	197.25	
M-119	MU1 Ring	4/11/2017	210.32	
M-119	MU1 Ring	4/24/2017	216.10	
M-119	MU1 Ring	5/9/2017	195.32	
M-119	MU1 Ring	5/23/2017	192.91	
M-119	MU1 Ring	6/13/2017	197.17	
M-119	MU1 Ring	6/27/2017	198.27	
M-120A	MU1 Ring	4/11/2017	193.48	
M-120A	MU1 Ring	4/24/2017	210.86	
M-120A	MU1 Ring	5/9/2017	190.40	
M-120A	MU1 Ring	5/23/2017	189.68	
M-120A	MU1 Ring	6/13/2017	196.00	
M-120A	MU1 Ring	6/27/2017	196.61	
M-121	MU1 Ring	4/11/2017	192.21	
M-121	MU1 Ring	4/26/2017	200.05	
M-121	MU1 Ring	5/9/2017	189.08	
M-121	MU1 Ring	5/23/2017	191.58	
M-121	MU1 Ring	6/13/2017	196.29	
M-121	MU1 Ring	6/27/2017	194.88	
M-122	MU1 Ring	4/11/2017	191.55	
M-122	MU1 Ring	4/26/2017	196.65	
M-122	MU1 Ring	5/9/2017	188.38	
M-122	MU1 Ring	5/23/2017	191.60	
M-122	MU1 Ring	6/13/2017	195.85	
M-122	MU1 Ring	6/27/2017	194.03	
M-123	MU1 Ring	4/11/2017	189.29	
M-123	MU1 Ring	4/26/2017	192.23	
M-123	MU1 Ring	5/9/2017	184.80	
M-123	MU1 Ring	5/23/2017	188.97	
M-123	MU1 Ring	6/13/2017	192.42	
M-123	MU1 Ring	6/27/2017	189.60	
M-124	MU1 Ring	4/11/2017	193.18	
M-124	MU1 Ring	4/26/2017	195.90	
M-124	MU1 Ring	5/9/2017	188.78	
M-124	MU1 Ring	5/23/2017	192.40	
M-124	MU1 Ring	6/13/2017	196.14	
M-124	MU1 Ring	6/27/2017	192.27	
M-125	MU1 Ring	4/11/2017	181.96	
M-125	MU1 Ring	4/26/2017	185.97	

**Attachment 3: Groundwater Level Measurement Data  
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Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-125	MU1 Ring	5/9/2017	188.66	
M-125	MU1 Ring	5/23/2017	181.90	
M-125	MU1 Ring	6/13/2017	185.70	
M-125	MU1 Ring	6/27/2017	182.11	
M-126	MU1 Ring	4/11/2017	183.20	
M-126	MU1 Ring	4/26/2017	185.80	
M-126	MU1 Ring	5/9/2017	181.04	
M-126	MU1 Ring	5/23/2017	183.16	
M-126	MU1 Ring	6/13/2017	186.19	
M-126	MU1 Ring	6/27/2017	183.09	
M-127	MU1 Ring	4/11/2017	171.20	
M-127	MU1 Ring	4/26/2017	173.69	
M-127	MU1 Ring	5/9/2017	174.84	
M-127	MU1 Ring	5/26/2017	169.13	
M-127	MU1 Ring	6/14/2017	168.50	
M-127	MU1 Ring	6/28/2017	174.22	
M-128	MU1 Ring	4/11/2017	169.33	
M-128	MU1 Ring	4/26/2017	160.93	
M-128	MU1 Ring	5/9/2017	175.20	
M-128	MU1 Ring	5/26/2017	166.40	
M-128	MU1 Ring	6/14/2017	166.41	
M-128	MU1 Ring	6/28/2017	174.24	
MO-101	MU1 Ring	4/12/2017	160.95	
MO-101	MU1 Ring	4/27/2017	157.53	
MO-101	MU1 Ring	5/10/2017	162.43	
MO-101	MU1 Ring	5/30/2017	158.85	
MO-101	MU1 Ring	6/15/2017	159.80	
MO-101	MU1 Ring	6/29/2017	162.40	
MO-102	MU1 Ring	4/12/2017	170.92	
MO-102	MU1 Ring	4/27/2017	168.69	
MO-102	MU1 Ring	5/10/2017	170.32	
MO-102	MU1 Ring	5/30/2017	168.23	
MO-102	MU1 Ring	6/15/2017	168.39	
MO-102	MU1 Ring	6/29/2017	171.16	
MO-103	MU1 Ring	4/12/2017	164.97	
MO-103	MU1 Ring	4/27/2017	163.36	
MO-103	MU1 Ring	5/10/2017	163.07	
MO-103	MU1 Ring	5/30/2017	164.05	
MO-103	MU1 Ring	6/15/2017	163.44	
MO-103	MU1 Ring	6/29/2017	162.89	
MO-104	MU1 Ring	4/12/2017	176.32	
MO-104	MU1 Ring	4/27/2017	177.52	
MO-104	MU1 Ring	5/10/2017	178.13	
MO-104	MU1 Ring	5/30/2017	189.87	
MO-104	MU1 Ring	6/15/2017	189.26	
MO-104	MU1 Ring	6/29/2017	189.56	
MO-105	MU1 Ring	4/12/2017	172.65	
MO-105	MU1 Ring	4/27/2017	173.48	
MO-105	MU1 Ring	5/10/2017	172.83	

**Attachment 3: Groundwater Level Measurement Data  
2nd Quarter 2017  
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
MO-105	MU1 Overlying	5/30/2017	174.57	
MO-105	MU1 Overlying	6/15/2017	173.05	
MO-105	MU1 Overlying	6/29/2017	171.31	
MO-106	MU1 Overlying	4/13/2017	170.84	
MO-106	MU1 Overlying	4/27/2017	171.29	
MO-106	MU1 Overlying	5/11/2017	171.32	
MO-106	MU1 Overlying	5/30/2017	173.69	
MO-106	MU1 Overlying	6/15/2017	172.89	
MO-106	MU1 Overlying	6/29/2017	171.12	
MO-107	MU1 Overlying	4/13/2017	167.29	
MO-107	MU1 Overlying	4/27/2017	176.48	
MO-107	MU1 Overlying	5/11/2017	174.98	
MO-107	MU1 Overlying	5/30/2017	169.35	
MO-107	MU1 Overlying	6/15/2017	169.85	
MO-107	MU1 Overlying	6/29/2017	164.71	
MO-108	MU1 Overlying	4/13/2017	173.45	
MO-108	MU1 Overlying	4/27/2017	176.48	
MO-108	MU1 Overlying	5/11/2017	181.04	
MO-108	MU1 Overlying	5/30/2017	187.03	
MO-108	MU1 Overlying	6/15/2017	187.63	
MO-108	MU1 Overlying	6/29/2017	176.77	
MO-109	MU1 Overlying	4/13/2017	174.03	
MO-109	MU1 Overlying	5/1/2017	176.32	
MO-109	MU1 Overlying	5/11/2017	174.39	
MO-109	MU1 Overlying	5/31/2017	174.89	
MO-109	MU1 Overlying	6/15/2017	174.76	
MO-109	MU1 Overlying	6/29/2017	170.10	
MO-110	MU1 Overlying	4/13/2017	177.60	
MO-110	MU1 Overlying	5/1/2017	176.40	
MO-110	MU1 Overlying	5/11/2017	175.33	
MO-110	MU1 Overlying	5/31/2017	174.22	
MO-110	MU1 Overlying	6/16/2017	175.16	
MO-110	MU1 Overlying	6/30/2017	174.89	
MO-111	MU1 Overlying	4/13/2017	177.73	
MO-111	MU1 Overlying	5/1/2017	175.70	
MO-111	MU1 Overlying	5/11/2017	174.31	
MO-111	MU1 Overlying	5/31/2017	173.52	
MO-111	MU1 Overlying	6/16/2017	174.19	
MO-111	MU1 Overlying	6/30/2017	173.61	
MO-112	MU1 Overlying	4/13/2017	176.70	
MO-112	MU1 Overlying	5/1/2017	176.81	
MO-112	MU1 Overlying	5/11/2017	173.70	
MO-112	MU1 Overlying	5/31/2017	173.58	
MO-112	MU1 Overlying	6/16/2017	173.82	
MO-112	MU1 Overlying	6/30/2017	171.26	
MO-113	MU1 Overlying	4/13/2017	168.55	
MO-113	MU1 Overlying	5/1/2017	170.29	
MO-113	MU1 Overlying	5/11/2017	172.73	
MO-113	MU1 Overlying	5/31/2017	167.49	

**Attachment 3: Groundwater Level Measurement Data  
2nd Quarter 2017  
Lost Creek ISR Project PT788**

<b>Well ID</b>	<b>Well Type</b>	<b>Measure Date</b>	<b>Depth to Water (ft-bmp)</b>	<b>Comments</b>
MO-113	MU1 Overlying	6/16/2017	167.63	
MO-113	MU1 Overlying	6/30/2017	170.23	
MU-101	MU1 Underlying	4/12/2017	190.75	
MU-101	MU1 Underlying	4/27/2017	189.69	
MU-101	MU1 Underlying	5/10/2017	191.27	
MU-101	MU1 Underlying	5/30/2017	194.00	
MU-101	MU1 Underlying	6/14/2017	190.91	
MU-101	MU1 Underlying	6/29/2017	191.05	
MU-102	MU1 Underlying	4/12/2017	192.32	
MU-102	MU1 Underlying	4/27/2017	191.83	
MU-102	MU1 Underlying	5/10/2017	192.48	
MU-102	MU1 Underlying	5/30/2017	192.29	
MU-102	MU1 Underlying	6/15/2017	192.34	
MU-102	MU1 Underlying	6/29/2017	192.45	
MU-103	MU1 Underlying	4/12/2017	188.85	
MU-103	MU1 Underlying	4/27/2017	187.23	
MU-103	MU1 Underlying	5/10/2017	188.44	
MU-103	MU1 Underlying	5/30/2017	188.20	
MU-103	MU1 Underlying	6/15/2017	188.35	
MU-103	MU1 Underlying	6/29/2017	188.22	
MU-104B	MU1 Underlying	4/12/2017	195.90	
MU-104B	MU1 Underlying	4/27/2017	195.42	
MU-104B	MU1 Underlying	5/10/2017	196.38	
MU-104B	MU1 Underlying	5/30/2017	196.56	
MU-104B	MU1 Underlying	6/15/2017	196.77	
MU-104B	MU1 Underlying	6/29/2017	196.16	
MU-105	MU1 Underlying	4/12/2017	209.14	
MU-105	MU1 Underlying	4/27/2017	209.54	
MU-105	MU1 Underlying	5/10/2017	208.78	
MU-105	MU1 Underlying	5/30/2017	209.70	
MU-105	MU1 Underlying	6/15/2017	209.30	
MU-105	MU1 Underlying	6/29/2017	203.22	
MU-106	MU1 Underlying	4/13/2017	203.10	
MU-106	MU1 Underlying	4/27/2017	204.08	
MU-106	MU1 Underlying	5/11/2017	202.54	
MU-106	MU1 Underlying	5/30/2017	203.75	
MU-106	MU1 Underlying	6/15/2017	203.31	
MU-106	MU1 Underlying	6/29/2017	197.18	
MU-107	MU1 Underlying	4/13/2017	204.26	
MU-107	MU1 Underlying	4/27/2017	202.43	
MU-107	MU1 Underlying	5/11/2017	199.80	
MU-107	MU1 Underlying	5/30/2017	200.48	
MU-107	MU1 Underlying	6/15/2017	200.49	
MU-107	MU1 Underlying	6/29/2017	196.83	
KPW-2	MU1 Underlying	4/13/2017	201.88	
KPW-2	MU1 Underlying	4/27/2017	202.43	
KPW-2	MU1 Underlying	5/11/2017	201.31	
KPW-2	MU1 Underlying	5/30/2017	201.70	
KPW-2	MU1 Underlying	6/15/2017	201.83	

**Attachment 3: Groundwater Level Measurement Data  
2nd Quarter 2017  
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
KPW-2	MU1 Underlying	6/29/2017	199.14	
MU-109	MU1 Underlying	4/13/2017	198.64	
MU-109	MU1 Underlying	5/1/2017	201.14	
MU-109	MU1 Underlying	5/8/2017	202.64	
MU-109	MU1 Underlying	5/17/2017	203.41	
MU-109	MU1 Underlying	5/22/2017	204.08	
MU-109	MU1 Underlying	5/30/2017	204.26	
MU-109	MU1 Underlying	6/15/2017	204.96	
MU-109	MU1 Underlying	6/29/2017	201.63	
MU-110	MU1 Underlying	4/13/2017	208.68	
MU-110	MU1 Underlying	5/1/2017	208.22	
MU-110	MU1 Underlying	5/11/2017	206.62	
MU-110	MU1 Underlying	5/31/2017	206.93	
MU-110	MU1 Underlying	6/16/2017	206.88	
MU-110	MU1 Underlying	6/30/2017	205.20	
MU-111	MU1 Underlying	4/13/2017	208.57	
MU-111	MU1 Underlying	5/1/2017	207.76	
MU-111	MU1 Underlying	5/11/2017	207.63	
MU-111	MU1 Underlying	5/31/2017	206.33	
MU-111	MU1 Underlying	6/16/2017	206.76	
MU-111	MU1 Underlying	6/30/2017	204.60	
MU-112	MU1 Underlying	4/13/2017	208.22	
MU-112	MU1 Underlying	5/1/2017	208.16	
MU-112	MU1 Underlying	5/11/2017	206.25	
MU-112	MU1 Underlying	5/30/2017	206.72	
MU-112	MU1 Underlying	6/16/2017	206.47	
MU-112	MU1 Underlying	6/30/2017	204.90	
MU-113	MU1 Underlying	4/13/2017	192.89	
MU-113	MU1 Underlying	5/1/2017	196.40	
MU-113	MU1 Underlying	5/11/2017	194.90	
MU-113	MU1 Underlying	5/24/2017	201.22	
MU-113	MU1 Underlying	5/31/2017	194.86	
MU-113	MU1 Underlying	6/16/2017	195.10	
MU-113	MU1 Underlying	6/30/2017	195.26	
LC15M	Regional FG	6/7/2017	163.29	
LC16M	Regional HJ	6/7/2017	169.74	
LC17M	Regional KM	6/7/2017	189.41	
LC18M	Regional FG	6/7/2017	173.54	
LC19M	Regional HJ	6/7/2017	205.12	
LC20M	Regional KM	6/7/2017	209.16	
LC21M	Regional FG	6/7/2017	198.13	
LC22MA	Regional HJ	6/7/2017	211.91	
LC23M	Regional KM	6/7/2017	222.61	
LC24M	Regional KM	6/7/2017	195.21	
LC25MA	Regional FG	6/7/2017	195.89	
LC26M	Regional HJ	6/7/2017	171.56	
LC27M	Regional KM	6/7/2017	193.49	
LC28M	Regional KM	6/7/2017	156.10	
LC29M	Regional DE	6/7/2017	158.63	Insufficient water for sampling



**Attachment 3: Groundwater Level Measurement Data  
2nd Quarter 2017  
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
LC30M	Regional DE	6/7/2017	200.18	
LC31M	Regional DE	6/7/2017	144.80	
MB-01	Regional DE	6/7/2017	238.76	
MB-02	Regional FG	6/7/2017	243.51	
MB-03B	Regional HJ	6/7/2017	268.39	
MB-04	Regional KM	6/7/2017	278.23	
MB-05	Regional FG	6/7/2017	145.36	
MB-06	Regional HJ	6/7/2017	143.83	
MB-07	Regional DE	6/7/2017	153.14	
MB-08	Regional FG	6/7/2017	172.76	
MB-09	Regional HJ	6/7/2017	186.24	
MB-10	Regional DE	6/7/2017	172.96	Insufficient water for sampling

*ft-bmp: feet below measuring point*

*MU1: Mine Unit 1*

**Attachment 4: MU1 Water Quality Data  
2nd Quarter 2017  
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 <sup>†</sup>	% Diff	Assay	UCL <sup>†</sup>	% Diff	Assay	UCL <sup>†</sup>	% Diff	
M-101	MU1 Ring	4/11/2017	13	112	186.2	-40	5.9	20.5	-71	671	1012.4	-34	
M-101	MU1 Ring	4/26/2017	15	113	186.2	-39	5.5	20.5	-73	668	1012.4	-34	
M-101	MU1 Ring	5/10/2017	14	127	186.2	-32	4.9	20.5	-76	651	1012.4	-36	
M-101	MU1 Ring	5/26/2017	16	114	186.2	-39	6.2	20.5	-70	660	1012.4	-35	
M-101	MU1 Ring	6/14/2017	19	115	186.2	-38	6.2	20.5	-70	660	1012.4	-35	
M-101	MU1 Ring	6/28/2017	14	130	186.2	-30	5.9	20.5	-71	655	1012.4	-35	
M-102	MU1 Ring	4/11/2017	13	136	186.2	-27	5.9	20.5	-71	806	1012.4	-20	
M-102	MU1 Ring	4/26/2017	15	139	186.2	-25	6.3	20.5	-69	803	1012.4	-21	
M-102	MU1 Ring	5/10/2017	14	134	186.2	-28	5.0	20.5	-76	801	1012.4	-21	
M-102	MU1 Ring	5/26/2017	16	142	186.2	-24	6.1	20.5	-70	799	1012.4	-21	
M-102	MU1 Ring	6/14/2017	19	138	186.2	-26	6.3	20.5	-69	796	1012.4	-21	
M-102	MU1 Ring	6/28/2017	14	136	186.2	-27	5.7	20.5	-72	803	1012.4	-21	
M-103A	MU1 Ring	4/11/2017	13	131	186.2	-29	5.5	20.5	-73	819	1012.4	-19	
M-103A	MU1 Ring	4/26/2017	15	132	186.2	-29	6.5	20.5	-68	805	1012.4	-20	
M-103A	MU1 Ring	5/10/2017	14	131	186.2	-30	6.1	20.5	-70	803	1012.4	-21	
M-103A	MU1 Ring	5/26/2017	16	137	186.2	-27	5.8	20.5	-72	801	1012.4	-21	
M-103A	MU1 Ring	6/14/2017	19	135	186.2	-27	5.7	20.5	-72	804	1012.4	-21	
M-103A	MU1 Ring	6/28/2017	14	135	186.2	-28	6.7	20.5	-67	808	1012.4	-20	
M-104	MU1 Ring	4/12/2017	14	134	186.2	-28	5.9	20.5	-71	820	1012.4	-19	
M-104	MU1 Ring	4/26/2017	14	135	186.2	-27	6.0	20.5	-71	805	1012.4	-20	
M-104	MU1 Ring	5/10/2017	14	133	186.2	-29	5.8	20.5	-72	744	1012.4	-27	
M-104	MU1 Ring	5/26/2017	16	132	186.2	-29	5.7	20.5	-72	696	1012.4	-31	
M-104	MU1 Ring	6/14/2017	19	121	186.2	-35	6.3	20.5	-69	683	1012.4	-33	
M-104	MU1 Ring	6/28/2017	14	127	186.2	-32	7.1	20.5	-65	681	1012.4	-33	
M-105	MU1 Ring	4/12/2017	14	122	186.2	-35	5.9	20.5	-71	659	1012.4	-35	
M-105	MU1 Ring	4/26/2017	14	125	186.2	-33	5.1	20.5	-75	672	1012.4	-34	
M-105	MU1 Ring	5/10/2017	14	119	186.2	-36	4.9	20.5	-76	676	1012.4	-33	
M-105	MU1 Ring	5/26/2017	16	124	186.2	-33	6.2	20.5	-70	649	1012.4	-36	
M-105	MU1 Ring	6/14/2017	19	130	186.2	-30	6.5	20.5	-68	696	1012.4	-31	
M-105	MU1 Ring	6/28/2017	14	125	186.2	-33	6.2	20.5	-70	712	1012.4	-30	
M-106	MU1 Ring	4/12/2017	14	114	186.2	-39	5.5	20.5	-73	641	1012.4	-37	
M-106	MU1 Ring	4/26/2017	14	123	186.2	-34	5.8	20.5	-72	634	1012.4	-37	
M-106	MU1 Ring	5/10/2017	14	124	186.2	-33	5.0	20.5	-76	660	1012.4	-35	
M-106	MU1 Ring	5/26/2017	16	118	186.2	-36	5.6	20.5	-73	654	1012.4	-35	
M-106	MU1 Ring	6/14/2017	19	119	186.2	-36	6.1	20.5	-70	662	1012.4	-35	
M-106	MU1 Ring	6/28/2017	14	130	186.2	-30	5.6	20.5	-73	688	1012.4	-32	
M-107	MU1 Ring	4/12/2017	14	117	186.2	-37	5.1	20.5	-75	648	1012.4	-36	
M-107	MU1 Ring	4/26/2017	14	121	186.2	-35	6.0	20.5	-71	667	1012.4	-34	
M-107	MU1 Ring	5/10/2017	14	116	186.2	-38	6.1	20.5	-70	679	1012.4	-33	
M-107	MU1 Ring	5/26/2017	16	122	186.2	-34	5.6	20.5	-73	673	1012.4	-34	
M-107	MU1 Ring	6/14/2017	19	124	186.2	-33	5.6	20.5	-73	672	1012.4	-34	
M-107	MU1 Ring	6/28/2017	14	118	186.2	-37	6.7	20.5	-67	677	1012.4	-33	
M-108	MU1 Ring	4/12/2017	14	107	186.2	-43	5.0	20.5	-76	561	1012.4	-45	
M-108	MU1 Ring	4/26/2017	14	108	186.2	-42	5.1	20.5	-75	557	1012.4	-45	
M-108	MU1 Ring	5/10/2017	14	110	186.2	-41	5.1	20.5	-75	552	1012.4	-45	
M-108	MU1 Ring	5/26/2017	16	106	186.2	-43	5.7	20.5	-72	546	1012.4	-46	
M-108	MU1 Ring	6/14/2017	19	105	186.2	-44	5.6	20.5	-72	545	1012.4	-46	
M-108	MU1 Ring	6/28/2017	14	111	186.2	-40	7.1	20.5	-66	546	1012.4	-46	
M-109	MU1 Ring	4/12/2017	14	103	186.2	-45	5.9	20.5	-71	571	1012.4	-44	
M-109	MU1 Ring	4/26/2017	14	109	186.2	-42	5.2	20.5	-75	575	1012.4	-43	
M-109	MU1 Ring	5/10/2017	14	106	186.2	-43	4.8	20.5	-77	570	1012.4	-44	
M-109	MU1 Ring	5/26/2017	16	107	186.2	-43	6.3	20.5	-69	553	1012.4	-45	
M-109	MU1 Ring	6/14/2017	19	104	186.2	-44	6.6	20.5	-68	539	1012.4	-47	
M-109	MU1 Ring	6/28/2017	14	103	186.2	-45	5.8	20.5	-72	532	1012.4	-47	
M-110	MU1 Ring	4/12/2017	14	109	186.2	-42	6.1	20.5	-70	551	1012.4	-46	
M-110	MU1 Ring	4/26/2017	14	109	186.2	-41	7.1	20.5	-66	550	1012.4	-46	
M-110	MU1 Ring	5/10/2017	14	104	186.2	-44	6.1	20.5	-70	551	1012.4	-46	
M-110	MU1 Ring	5/26/2017	16	111	186.2	-40	6.7	20.5	-67	555	1012.4	-45	
M-110	MU1 Ring	6/14/2017	19	112	186.2	-40	7.1	20.5	-66	554	1012.4	-45	
M-110	MU1 Ring	6/28/2017	14	107	186.2	-43	6.5	20.5	-68	545	1012.4	-46	
M-111	MU1 Ring	4/12/2017	14	105	186.2	-44	5.0	20.5	-76	550	1012.4	-46	
M-111	MU1 Ring	4/27/2017	15	105	186.2	-43	5.6	20.5	-73	556	1012.4	-45	
M-111	MU1 Ring	5/10/2017	13	109	186.2	-42	5.9	20.5	-71	540	1012.4	-47	
M-111	MU1 Ring	5/26/2017	16	106	186.2	-43	5.4	20.5	-74	536	1012.4	-47	
M-111	MU1 Ring	6/14/2017	19	104	186.2	-44	5.5	20.5	-73	537	1012.4	-47	
M-111	MU1 Ring	6/28/2017	14	111	186.2	-40	5.4	20.5	-73	546	1012.4	-46	
M-112	MU1 Ring	4/12/2017	14	104	186.2	-44	5.6	20.5	-73	549	1012.4	-46	

**Attachment 4: MU1 Water Quality Data  
2nd Quarter 2017  
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 <sup>†</sup>	% Diff	Assay	UCL <sup>†</sup>	% Diff	Assay	UCL <sup>†</sup>	% Diff	
M-112	MU1 Ring	4/27/2017	15	110	186.2	-41	4.9	20.5	-76	550	1012.4	-46	
M-112	MU1 Ring	5/9/2017	12	109	186.2	-42	5.0	20.5	-76	544	1012.4	-46	
M-112	MU1 Ring	5/26/2017	17	112	186.2	-40	5.8	20.5	-72	539	1012.4	-47	
M-112	MU1 Ring	6/28/2017	33	108	186.2	-42	5.3	20.5	-74	536	1012.4	-47	
M-113	MU1 Ring	4/11/2017	14	100	186.2	-46	5.7	20.5	-72	515	1012.4	-49	
M-113	MU1 Ring	4/24/2017	13	102	186.2	-45	5.2	20.5	-75	514	1012.4	-49	
M-113	MU1 Ring	5/9/2017	15	98	186.2	-47	4.5	20.5	-78	513	1012.4	-49	
M-113	MU1 Ring	5/23/2017	14	104	186.2	-44	5.8	20.5	-72	508	1012.4	-50	
M-113	MU1 Ring	6/14/2017	22	101	186.2	-46	5.1	20.5	-75	512	1012.4	-49	
M-113	MU1 Ring	6/27/2017	13	101	186.2	-46	5.4	20.5	-74	510	1012.4	-50	
M-114A	MU1 Ring	4/11/2017	14	110	186.2	-41	4.9	20.5	-76	520	1012.4	-49	
M-114A	MU1 Ring	4/24/2017	13	101	186.2	-46	5.9	20.5	-71	520	1012.4	-49	
M-114A	MU1 Ring	5/9/2017	15	104	186.2	-44	5.0	20.5	-76	522	1012.4	-48	
M-114A	MU1 Ring	5/23/2017	14	103	186.2	-44	5.3	20.5	-74	518	1012.4	-49	
M-114A	MU1 Ring	6/13/2017	21	102	186.2	-45	4.9	20.5	-76	521	1012.4	-49	
M-114A	MU1 Ring	6/27/2017	14	104	186.2	-44	6.8	20.5	-67	529	1012.4	-48	
M-115A	MU1 Ring	4/11/2017	14	93	186.2	-50	5.0	20.5	-76	482	1012.4	-52	
M-115A	MU1 Ring	4/24/2017	13	94	186.2	-50	4.9	20.5	-76	481	1012.4	-52	
M-115A	MU1 Ring	5/9/2017	15	101	186.2	-46	5.0	20.5	-75	476	1012.4	-53	
M-115A	MU1 Ring	5/23/2017	14	102	186.2	-45	4.7	20.5	-77	487	1012.4	-52	
M-115A	MU1 Ring	6/13/2017	21	103	186.2	-45	5.9	20.5	-71	492	1012.4	-51	
M-115A	MU1 Ring	6/27/2017	14	102	186.2	-45	5.6	20.5	-73	484	1012.4	-52	
M-116A	MU1 Ring	4/11/2017	14	99	186.2	-47	5.2	20.5	-75	490	1012.4	-52	
M-116A	MU1 Ring	4/24/2017	13	103	186.2	-44	4.8	20.5	-77	496	1012.4	-51	
M-116A	MU1 Ring	5/9/2017	15	101	186.2	-46	4.7	20.5	-77	490	1012.4	-52	
M-116A	MU1 Ring	5/23/2017	14	107	186.2	-42	5.7	20.5	-72	493	1012.4	-51	
M-116A	MU1 Ring	6/13/2017	21	106	186.2	-43	5.9	20.5	-71	494	1012.4	-51	
M-116A	MU1 Ring	6/27/2017	14	102	186.2	-45	5.8	20.5	-72	493	1012.4	-51	
M-117	MU1 Ring	4/11/2017	14	98	186.2	-47	5.6	20.5	-73	503	1012.4	-50	
M-117	MU1 Ring	4/24/2017	13	102	186.2	-45	5.0	20.5	-76	506	1012.4	-50	
M-117	MU1 Ring	5/9/2017	15	98	186.2	-47	4.5	20.5	-78	500	1012.4	-51	
M-117	MU1 Ring	5/23/2017	14	100	186.2	-46	5.6	20.5	-73	500	1012.4	-51	
M-117	MU1 Ring	6/13/2017	21	101	186.2	-46	4.9	20.5	-76	496	1012.4	-51	
M-117	MU1 Ring	6/27/2017	14	105	186.2	-44	5.2	20.5	-75	494	1012.4	-51	
M-118	MU1 Ring	4/11/2017	14	93	186.2	-50	4.8	20.5	-76	500	1012.4	-51	
M-118	MU1 Ring	4/24/2017	13	95	186.2	-49	5.6	20.5	-73	503	1012.4	-50	
M-118	MU1 Ring	5/9/2017	15	94	186.2	-49	5.4	20.5	-74	506	1012.4	-50	
M-118	MU1 Ring	5/23/2017	14	95	186.2	-49	5.3	20.5	-74	497	1012.4	-51	
M-118	MU1 Ring	6/13/2017	21	95	186.2	-49	4.8	20.5	-76	501	1012.4	-51	
M-118	MU1 Ring	6/27/2017	14	100	186.2	-47	5.3	20.5	-74	502	1012.4	-50	
M-119	MU1 Ring	4/11/2017	14	109	186.2	-42	4.9	20.5	-76	469	1012.4	-54	
M-119	MU1 Ring	4/24/2017	13	110	186.2	-41	5.2	20.5	-75	472	1012.4	-53	
M-119	MU1 Ring	5/9/2017	15	117	186.2	-37	5.5	20.5	-73	462	1012.4	-54	
M-119	MU1 Ring	5/23/2017	14	118	186.2	-37	5.5	20.5	-73	503	1012.4	-50	
M-119	MU1 Ring	6/13/2017	21	116	186.2	-38	6.2	20.5	-70	458	1012.4	-55	
M-119	MU1 Ring	6/27/2017	14	112	186.2	-40	6.3	20.5	-69	458	1012.4	-55	
M-120A	MU1 Ring	4/11/2017	14	103	186.2	-44	5.7	20.5	-72	474	1012.4	-53	
M-120A	MU1 Ring	4/24/2017	13	111	186.2	-40	4.8	20.5	-76	477	1012.4	-53	
M-120A	MU1 Ring	5/9/2017	15	106	186.2	-43	4.9	20.5	-76	462	1012.4	-54	
M-120A	MU1 Ring	5/23/2017	14	109	186.2	-41	6.1	20.5	-70	460	1012.4	-55	
M-120A	MU1 Ring	6/13/2017	21	110	186.2	-41	6.0	20.5	-71	466	1012.4	-54	
M-120A	MU1 Ring	6/27/2017	14	110	186.2	-41	6.1	20.5	-70	467	1012.4	-54	
M-121	MU1 Ring	4/11/2017	14	111	186.2	-40	6.9	20.5	-66	512	1012.4	-49	
M-121	MU1 Ring	4/26/2017	15	107	186.2	-42	4.7	20.5	-77	501	1012.4	-51	
M-121	MU1 Ring	5/9/2017	13	108	186.2	-42	4.8	20.5	-77	509	1012.4	-50	
M-121	MU1 Ring	5/23/2017	14	109	186.2	-42	5.7	20.5	-72	507	1012.4	-50	
M-121	MU1 Ring	6/13/2017	21	109	186.2	-42	5.0	20.5	-76	512	1012.4	-49	
M-121	MU1 Ring	6/27/2017	14	110	186.2	-41	5.5	20.5	-73	516	1012.4	-49	
M-122	MU1 Ring	4/11/2017	14	110	186.2	-41	5.3	20.5	-74	501	1012.4	-51	
M-122	MU1 Ring	4/26/2017	15	113	186.2	-39	4.8	20.5	-77	495	1012.4	-51	
M-122	MU1 Ring	5/9/2017	13	112	186.2	-40	5.5	20.5	-73	503	1012.4	-50	
M-122	MU1 Ring	5/23/2017	14	115	186.2	-38	5.3	20.5	-74	500	1012.4	-51	
M-122	MU1 Ring	6/13/2017	21	115	186.2	-38	5.4	20.5	-74	503	1012.4	-50	
M-122	MU1 Ring	6/27/2017	14	115	186.2	-38	6.6	20.5	-68	510	1012.4	-50	
M-123	MU1 Ring	4/11/2017	14	109	186.2	-41	4.7	20.5	-77	494	1012.4	-51	
M-123	MU1 Ring	4/26/2017	15	108	186.2	-42	5.4	20.5	-74	489	1012.4	-52	
M-123	MU1 Ring	5/9/2017	13	117	186.2	-37	4.8	20.5	-77	496	1012.4	-51	

**Attachment 4: MU1 Water Quality Data**  
**2nd Quarter 2017**  
**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 <sup>†</sup>	% Diff	Assay	UCL <sup>†</sup>	% Diff	Assay	UCL <sup>†</sup>	% Diff	
M-123	MU1 Ring	5/23/2017	14	110	186.2	-41	5.0	20.5	-76	492	1012.4	-51	
M-123	MU1 Ring	6/13/2017	21	111	186.2	-40	5.9	20.5	-71	497	1012.4	-51	
M-123	MU1 Ring	6/27/2017	14	113	186.2	-39	6.3	20.5	-69	501	1012.4	-51	
M-124	MU1 Ring	4/11/2017	14	105	186.2	-44	5.2	20.5	-75	467	1012.4	-54	
M-124	MU1 Ring	4/26/2017	15	110	186.2	-41	4.9	20.5	-76	463	1012.4	-54	
M-124	MU1 Ring	5/9/2017	13	110	186.2	-41	4.3	20.5	-79	465	1012.4	-54	
M-124	MU1 Ring	5/23/2017	14	113	186.2	-39	5.6	20.5	-73	468	1012.4	-54	
M-124	MU1 Ring	6/13/2017	21	111	186.2	-40	5.4	20.5	-74	473	1012.4	-53	
M-124	MU1 Ring	6/27/2017	14	111	186.2	-40	5.3	20.5	-74	470	1012.4	-54	
M-125	MU1 Ring	4/11/2017	14	105	186.2	-43	6.6	20.5	-68	542	1012.4	-46	
M-125	MU1 Ring	4/26/2017	15	116	186.2	-38	5.4	20.5	-74	543	1012.4	-46	
M-125	MU1 Ring	5/9/2017	13	106	186.2	-43	6.0	20.5	-70	542	1012.4	-46	
M-125	MU1 Ring	5/23/2017	14	108	186.2	-42	6.2	20.5	-70	540	1012.4	-47	
M-125	MU1 Ring	6/13/2017	21	110	186.2	-41	5.7	20.5	-72	543	1012.4	-46	
M-125	MU1 Ring	6/27/2017	14	111	186.2	-40	6.0	20.5	-71	546	1012.4	-46	
M-126	MU1 Ring	4/11/2017	14	106	186.2	-43	5.8	20.5	-72	544	1012.4	-46	
M-126	MU1 Ring	4/26/2017	15	106	186.2	-43	5.6	20.5	-73	542	1012.4	-46	
M-126	MU1 Ring	5/9/2017	13	107	186.2	-43	6.8	20.5	-67	543	1012.4	-46	
M-126	MU1 Ring	5/23/2017	14	115	186.2	-38	5.7	20.5	-72	542	1012.4	-46	
M-126	MU1 Ring	6/13/2017	21	106	186.2	-43	6.4	20.5	-69	545	1012.4	-46	
M-126	MU1 Ring	6/27/2017	14	107	186.2	-43	6.9	20.5	-66	549	1012.4	-46	
M-127	MU1 Ring	4/11/2017	14	106	186.2	-43	5.5	20.5	-73	555	1012.4	-45	
M-127	MU1 Ring	4/26/2017	15	111	186.2	-40	6.3	20.5	-69	551	1012.4	-46	
M-127	MU1 Ring	5/9/2017	13	112	186.2	-40	5.5	20.5	-73	555	1012.4	-45	
M-127	MU1 Ring	5/23/2017	14	114	186.2	-39	6.2	20.5	-70	555	1012.4	-45	
M-127	MU1 Ring	6/14/2017	22	113	186.2	-39	7.1	20.5	-65	558	1012.4	-45	
M-127	MU1 Ring	6/28/2017	14	110	186.2	-41	6.8	20.5	-67	569	1012.4	-44	
M-128	MU1 Ring	4/11/2017	14	111	186.2	-40	6.2	20.5	-70	581	1012.4	-43	
M-128	MU1 Ring	4/26/2017	15	109	186.2	-41	5.5	20.5	-73	557	1012.4	-45	
M-128	MU1 Ring	5/9/2017	13	109	186.2	-41	5.2	20.5	-75	577	1012.4	-43	
M-128	MU1 Ring	5/23/2017	14	110	186.2	-41	6.5	20.5	-68	569	1012.4	-44	
M-128	MU1 Ring	6/14/2017	22	112	186.2	-40	6.2	20.5	-70	572	1012.4	-44	
M-128	MU1 Ring	6/28/2017	14	116	186.2	-38	7.9	20.5	-62	584	1012.4	-42	
MO-101	MU1 Overlying	4/12/2017	13	102	182.1	-44	7.9	21.4	-63	640	921.7	-31	
MO-101	MU1 Overlying	4/27/2017	15	103	182.1	-43	6.5	21.4	-70	646	921.7	-30	
MO-101	MU1 Overlying	5/10/2017	13	105	182.1	-43	7.5	21.4	-65	653	921.7	-29	
MO-101	MU1 Overlying	5/30/2017	20	107	182.1	-41	7.5	21.4	-65	651	921.7	-29	
MO-101	MU1 Overlying	6/15/2017	16	102	182.1	-44	7.1	21.4	-67	628	921.7	-32	
MO-101	MU1 Overlying	6/29/2017	14	106	182.1	-42	8.0	21.4	-63	648	921.7	-30	
MO-102	MU1 Overlying	4/12/2017	13	96	182.1	-47	5.9	21.4	-73	589	921.7	-36	
MO-102	MU1 Overlying	4/27/2017	15	101	182.1	-44	6.7	21.4	-69	581	921.7	-37	
MO-102	MU1 Overlying	5/10/2017	13	103	182.1	-43	6.7	21.4	-68	591	921.7	-36	
MO-102	MU1 Overlying	5/30/2017	20	103	182.1	-43	6.0	21.4	-72	589	921.7	-36	
MO-102	MU1 Overlying	6/15/2017	16	104	182.1	-43	7.1	21.4	-67	590	921.7	-36	
MO-102	MU1 Overlying	6/29/2017	14	102	182.1	-44	6.5	21.4	-69	597	921.7	-35	
MO-103	MU1 Overlying	4/12/2017	13	112	182.1	-38	8.9	21.4	-58	718	921.7	-22	
MO-103	MU1 Overlying	4/27/2017	15	113	182.1	-38	10.4	21.4	-51	703	921.7	-24	
MO-103	MU1 Overlying	5/10/2017	13	113	182.1	-38	7.6	21.4	-64	723	921.7	-22	
MO-103	MU1 Overlying	5/30/2017	20	113	182.1	-38	7.3	21.4	-66	713	921.7	-23	
MO-103	MU1 Overlying	6/15/2017	16	115	182.1	-37	10.4	21.4	-51	714	921.7	-23	
MO-103	MU1 Overlying	6/29/2017	14	114	182.1	-37	10.2	21.4	-52	710	921.7	-23	
MO-104	MU1 Overlying	4/12/2017	13	112	182.1	-39	9.7	21.4	-55	598	921.7	-35	
MO-104	MU1 Overlying	4/27/2017	15	109	182.1	-40	8.6	21.4	-60	591	921.7	-36	
MO-104	MU1 Overlying	5/10/2017	13	112	182.1	-38	7.5	21.4	-65	605	921.7	-34	
MO-104	MU1 Overlying	5/30/2017	20	118	182.1	-35	9.1	21.4	-57	603	921.7	-35	
MO-104	MU1 Overlying	6/15/2017	16	112	182.1	-39	8.7	21.4	-59	606	921.7	-34	
MO-104	MU1 Overlying	6/29/2017	14	117	182.1	-36	8.6	21.4	-60	598	921.7	-35	
MO-105	MU1 Overlying	4/12/2017	13	98	182.1	-46	5.8	21.4	-73	480	921.7	-48	
MO-105	MU1 Overlying	4/27/2017	15	104	182.1	-43	4.9	21.4	-77	479	921.7	-48	
MO-105	MU1 Overlying	5/10/2017	13	106	182.1	-42	5.7	21.4	-73	486	921.7	-47	
MO-105	MU1 Overlying	5/30/2017	20	105	182.1	-42	5.1	21.4	-76	485	921.7	-47	
MO-105	MU1 Overlying	6/15/2017	16	106	182.1	-42	5.2	21.4	-76	482	921.7	-48	
MO-105	MU1 Overlying	6/29/2017	14	105	182.1	-42	5.2	21.4	-76	484	921.7	-47	
MO-106	MU1 Overlying	4/13/2017	14	96	182.1	-47	5.0	21.4	-77	463	921.7	-50	
MO-106	MU1 Overlying	4/27/2017	14	100	182.1	-45	5.6	21.4	-74	468	921.7	-49	
MO-106	MU1 Overlying	5/11/2017	14	99	182.1	-46	5.5	21.4	-74	468	921.7	-49	
MO-106	MU1 Overlying	5/30/2017	19	100	182.1	-45	5.2	21.4	-76	467	921.7	-49	

**Attachment 4: MU1 Water Quality Data  
2nd Quarter 2017  
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 <sup>†</sup>	% Diff	Assay	UCL <sup>†</sup>	% Diff	Assay	UCL <sup>†</sup>	% Diff	
MO-106	MU1 Overlying	6/15/2017	16	98	182.1	-46	6.4	21.4	-70	468	921.7	-49	
MO-106	MU1 Overlying	6/29/2017	14	105	182.1	-42	6.7	21.4	-69	468	921.7	-49	
MO-107	MU1 Overlying	4/13/2017	14	100	182.1	-45	5.0	21.4	-77	463	921.7	-50	
MO-107	MU1 Overlying	4/27/2017	14	98	182.1	-46	5.6	21.4	-74	462	921.7	-50	
MO-107	MU1 Overlying	5/11/2017	14	99	182.1	-46	4.6	21.4	-78	464	921.7	-50	
MO-107	MU1 Overlying	5/30/2017	19	104	182.1	-43	5.9	21.4	-72	464	921.7	-50	
MO-107	MU1 Overlying	6/15/2017	16	107	182.1	-41	5.8	21.4	-73	465	921.7	-50	
MO-107	MU1 Overlying	6/29/2017	14	102	182.1	-44	6.0	21.4	-72	467	921.7	-49	
MO-108	MU1 Overlying	4/13/2017	17	96	182.1	-47	6.5	21.4	-70	486	921.7	-47	
MO-108	MU1 Overlying	4/27/2017	14	95	182.1	-48	5.5	21.4	-74	484	921.7	-47	
MO-108	MU1 Overlying	5/11/2017	14	99	182.1	-46	5.4	21.4	-75	487	921.7	-47	
MO-108	MU1 Overlying	5/30/2017	19	102	182.1	-44	6.3	21.4	-71	486	921.7	-47	
MO-108	MU1 Overlying	6/15/2017	16	98	182.1	-46	5.5	21.4	-74	487	921.7	-47	
MO-108	MU1 Overlying	6/29/2017	14	99	182.1	-46	5.6	21.4	-74	489	921.7	-47	
MO-109	MU1 Overlying	4/13/2017	14	101	182.1	-45	6.8	21.4	-68	507	921.7	-45	
MO-109	MU1 Overlying	5/1/2017	18	108	182.1	-41	7.0	21.4	-67	510	921.7	-45	
MO-109	MU1 Overlying	5/11/2017	10	109	182.1	-40	7.5	21.4	-65	507	921.7	-45	
MO-109	MU1 Overlying	5/31/2017	20	107	182.1	-41	6.8	21.4	-68	512	921.7	-44	
MO-109	MU1 Overlying	6/15/2017	15	109	182.1	-40	7.3	21.4	-66	509	921.7	-45	
MO-109	MU1 Overlying	6/29/2017	14	113	182.1	-38	7.9	21.4	-63	516	921.7	-44	
MO-110	MU1 Overlying	4/13/2017	14	91	182.1	-50	4.7	21.4	-78	434	921.7	-53	
MO-110	MU1 Overlying	5/1/2017	18	96	182.1	-47	5.5	21.4	-74	431	921.7	-53	
MO-110	MU1 Overlying	5/11/2017	10	94	182.1	-48	5.1	21.4	-76	437	921.7	-53	
MO-110	MU1 Overlying	5/31/2017	20	97	182.1	-47	5.2	21.4	-76	435	921.7	-53	
MO-110	MU1 Overlying	6/16/2017	16	95	182.1	-48	6.1	21.4	-71	435	921.7	-53	
MO-110	MU1 Overlying	6/30/2017	14	98	182.1	-46	6.6	21.4	-69	438	921.7	-52	
MO-111	MU1 Overlying	4/13/2017	14	118	182.1	-35	11.8	21.4	-45	485	921.7	-47	
MO-111	MU1 Overlying	5/1/2017	18	113	182.1	-38	11.0	21.4	-48	496	921.7	-46	
MO-111	MU1 Overlying	5/11/2017	10	111	182.1	-39	9.5	21.4	-56	491	921.7	-47	
MO-111	MU1 Overlying	5/31/2017	20	115	182.1	-37	10.5	21.4	-51	474	921.7	-49	
MO-111	MU1 Overlying	6/16/2017	16	113	182.1	-38	10.4	21.4	-51	486	921.7	-47	
MO-111	MU1 Overlying	6/30/2017	14	114	182.1	-37	10.5	21.4	-51	493	921.7	-47	
MO-112	MU1 Overlying	4/13/2017	14	104	182.1	-43	6.8	21.4	-68	430	921.7	-53	
MO-112	MU1 Overlying	5/1/2017	18	106	182.1	-42	6.3	21.4	-70	427	921.7	-54	
MO-112	MU1 Overlying	5/11/2017	10	111	182.1	-39	6.5	21.4	-69	432	921.7	-53	
MO-112	MU1 Overlying	5/31/2017	20	106	182.1	-42	6.9	21.4	-68	430	921.7	-53	
MO-112	MU1 Overlying	6/16/2017	16	109	182.1	-40	6.5	21.4	-70	434	921.7	-53	
MO-112	MU1 Overlying	6/30/2017	14	114	182.1	-37	6.8	21.4	-68	441	921.7	-52	
MO-113	MU1 Overlying	4/13/2017	13	96	182.1	-47	5.8	21.4	-73	456	921.7	-51	
MO-113	MU1 Overlying	5/1/2017	18	103	182.1	-44	6.3	21.4	-70	454	921.7	-51	
MO-113	MU1 Overlying	5/11/2017	10	100	182.1	-45	6.9	21.4	-68	458	921.7	-50	
MO-113	MU1 Overlying	5/31/2017	20	102	182.1	-44	5.9	21.4	-73	454	921.7	-51	
MO-113	MU1 Overlying	6/16/2017	16	100	182.1	-45	7.2	21.4	-66	462	921.7	-50	
MO-113	MU1 Overlying	6/30/2017	14	107	182.1	-41	5.3	21.4	-75	548	921.7	-41	
MU-101	MU1 Underlying	4/12/2017	13	105	206.0	-49	4.8	21.3	-77	544	658.9	-17	
MU-101	MU1 Underlying	4/27/2017	15	105	206.0	-49	5.8	21.3	-73	543	658.9	-18	
MU-101	MU1 Underlying	5/10/2017	13	104	206.0	-49	4.8	21.3	-77	545	658.9	-17	
MU-101	MU1 Underlying	5/30/2017	20	114	206.0	-45	5.5	21.3	-74	547	658.9	-17	
MU-101	MU1 Underlying	6/15/2017	16	108	206.0	-47	6.2	21.3	-71	548	658.9	-17	
MU-101	MU1 Underlying	6/29/2017	14	103	206.0	-50	5.0	21.3	-76	430	658.9	-35	
MU-102	MU1 Underlying	4/12/2017	13	101	206.0	-51	5.5	21.3	-74	427	658.9	-35	
MU-102	MU1 Underlying	4/27/2017	15	100	206.0	-51	4.8	21.3	-78	430	658.9	-35	
MU-102	MU1 Underlying	5/10/2017	13	104	206.0	-50	4.3	21.3	-80	432	658.9	-34	
MU-102	MU1 Underlying	5/30/2017	20	103	206.0	-50	6.0	21.3	-72	436	658.9	-34	
MU-102	MU1 Underlying	6/15/2017	16	104	206.0	-49	5.0	21.3	-77	428	658.9	-35	
MU-102	MU1 Underlying	6/29/2017	14	104	206.0	-50	6.0	21.3	-72	431	658.9	-35	
MU-103	MU1 Underlying	4/12/2017	13	97	206.0	-53	4.8	21.3	-77	421	658.9	-36	
MU-103	MU1 Underlying	4/27/2017	15	102	206.0	-50	4.3	21.3	-80	421	658.9	-36	
MU-103	MU1 Underlying	5/10/2017	13	101	206.0	-51	5.2	21.3	-76	423	658.9	-36	
MU-103	MU1 Underlying	5/30/2017	20	101	206.0	-51	4.9	21.3	-77	422	658.9	-36	
MU-103	MU1 Underlying	6/15/2017	16	100	206.0	-51	4.4	21.3	-79	423	658.9	-36	
MU-103	MU1 Underlying	6/29/2017	14	99	206.0	-52	5.6	21.3	-74	433	658.9	-34	
MU-104B	MU1 Underlying	4/12/2017	13	92	206.0	-55	4.4	21.3	-79	433	658.9	-34	
MU-104B	MU1 Underlying	4/27/2017	15	97	206.0	-53	4.6	21.3	-78	429	658.9	-35	
MU-104B	MU1 Underlying	5/10/2017	13	94	206.0	-54	4.6	21.3	-78	433	658.9	-34	
MU-104B	MU1 Underlying	5/30/2017	20	100	206.0	-51	4.6	21.3	-78	432	658.9	-34	
MU-104B	MU1 Underlying	6/15/2017	16	96	206.0	-53	5.0	21.3	-76	434	658.9	-34	

**Attachment 4: MU1 Water Quality Data  
2nd Quarter 2017  
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 <sup>†</sup>	% Diff	Assay	UCL <sup>†</sup>	% Diff	Assay	UCL <sup>†</sup>	% Diff	
MU-104B	MU1 Underlying	6/29/2017	14	101	206.0	-51	5.0	21.3	-77	440	658.9	-33	
MU-105	MU1 Underlying	4/12/2017	13	97	206.0	-53	4.9	21.3	-77	437	658.9	-34	
MU-105	MU1 Underlying	4/27/2017	15	97	206.0	-53	5.1	21.3	-76	433	658.9	-34	
MU-105	MU1 Underlying	5/10/2017	13	108	206.0	-47	5.2	21.3	-76	438	658.9	-34	
MU-105	MU1 Underlying	5/30/2017	20	104	206.0	-49	5.3	21.3	-75	436	658.9	-34	
MU-105	MU1 Underlying	6/15/2017	16	103	206.0	-50	6.1	21.3	-71	438	658.9	-34	
MU-105	MU1 Underlying	6/29/2017	14	101	206.0	-51	5.4	21.3	-75	447	658.9	-32	
MU-106	MU1 Underlying	4/13/2017	14	98	206.0	-52	5.1	21.3	-76	433	658.9	-34	
MU-106	MU1 Underlying	4/27/2017	14	97	206.0	-53	4.9	21.3	-77	438	658.9	-34	
MU-106	MU1 Underlying	5/11/2017	14	101	206.0	-51	5.5	21.3	-74	437	658.9	-34	
MU-106	MU1 Underlying	5/30/2017	19	99	206.0	-52	5.7	21.3	-73	436	658.9	-34	
MU-106	MU1 Underlying	6/15/2017	16	103	206.0	-50	5.3	21.3	-75	437	658.9	-34	
MU-106	MU1 Underlying	6/29/2017	14	105	206.0	-49	5.9	21.3	-72	475	658.9	-28	
MU-107	MU1 Underlying	4/13/2017	14	100	206.0	-52	5.2	21.3	-76	474	658.9	-28	
MU-107	MU1 Underlying	4/27/2017	14	107	206.0	-48	4.7	21.3	-78	471	658.9	-29	
MU-107	MU1 Underlying	5/11/2017	14	101	206.0	-51	4.9	21.3	-77	475	658.9	-28	
MU-107	MU1 Underlying	5/30/2017	19	101	206.0	-51	5.0	21.3	-76	477	658.9	-28	
MU-107	MU1 Underlying	6/15/2017	16	100	206.0	-51	4.9	21.3	-77	476	658.9	-28	
MU-107	MU1 Underlying	6/29/2017	14	122	206.0	-41	14.6	21.3	-31	590	658.9	-10	
KPW-2	MU1 Underlying	4/13/2017	17	100	206.0	-51	8.8	21.3	-59	513	658.9	-22	
KPW-2	MU1 Underlying	4/27/2017	14	105	206.0	-49	9.5	21.3	-55	517	658.9	-22	
KPW-2	MU1 Underlying	5/11/2017	14	107	206.0	-48	10.4	21.3	-51	546	658.9	-17	
KPW-2	MU1 Underlying	5/30/2017	19	134	206.0	-35	12.8	21.3	-40	582	658.9	-12	
KPW-2	MU1 Underlying	6/15/2017	16	120	206.0	-42	16.6	21.3	-22	593	658.9	-10	
KPW-2	MU1 Underlying	6/29/2017	14	129	206.0	-38	12.5	21.3	-41	553	658.9	-16	
MU-109	MU1 Underlying	4/13/2017	14	132	206.0	-36	15.0	21.3	-29	616	658.9	-7	
MU-109	MU1 Underlying	5/1/2017	18	137	206.0	-33	18.4	21.3	-13	642	658.9	-3	
MU-109	MU1 Underlying	5/5/2017	4	135	206.0	-34	21.9	21.3	<b>3</b>	623	658.9	-5	
MU-109	MU1 Underlying	5/8/2017	3	139	206.0	-33	18.4	21.3	-13	604	658.9	-8	
MU-109	MU1 Underlying	5/17/2017	9	126	206.0	-39	24.5	21.3	<b>15</b>	568	658.9	-14	
MU-109	MU1 Underlying	5/22/2017	5	133	206.0	-35	14.9	21.3	-30	563	658.9	-15	
MU-109	MU1 Underlying	5/24/2017	2	136	206.0	-34	15.7	21.3	-26	582	658.9	-12	
MU-109	MU1 Underlying	5/31/2017	7	131	206.0	-36	14.2	21.3	-33	588	658.9	-11	
MU-109	MU1 Underlying	6/15/2017	15	129	206.0	-37	13.1	21.3	-38	576	658.9	-13	
MU-109	MU1 Underlying	6/29/2017	14	94	206.0	-54	6.9	21.3	-68	472	658.9	-28	
MU-110	MU1 Underlying	4/13/2017	14	91	206.0	-56	5.9	21.3	-72	468	658.9	-29	
MU-110	MU1 Underlying	5/1/2017	18	94	206.0	-54	5.5	21.3	-74	467	658.9	-29	
MU-110	MU1 Underlying	5/11/2017	10	94	206.0	-55	6.3	21.3	-70	472	658.9	-28	
MU-110	MU1 Underlying	5/31/2017	20	96	206.0	-53	5.8	21.3	-73	473	658.9	-28	
MU-110	MU1 Underlying	6/16/2017	16	93	206.0	-55	6.3	21.3	-70	472	658.9	-28	
MU-110	MU1 Underlying	6/30/2017	14	94	206.0	-54	5.7	21.3	-73	511	658.9	-22	
MU-111	MU1 Underlying	4/13/2017	14	91	206.0	-56	5.5	21.3	-74	509	658.9	-23	
MU-111	MU1 Underlying	5/1/2017	18	93	206.0	-55	5.4	21.3	-75	510	658.9	-23	
MU-111	MU1 Underlying	5/11/2017	10	96	206.0	-53	4.8	21.3	-77	509	658.9	-23	
MU-111	MU1 Underlying	5/31/2017	20	97	206.0	-53	4.9	21.3	-77	509	658.9	-23	
MU-111	MU1 Underlying	6/16/2017	16	96	206.0	-54	6.4	21.3	-70	510	658.9	-23	
MU-111	MU1 Underlying	6/30/2017	14	95	206.0	-54	4.9	21.3	-77	453	658.9	-31	
MU-112	MU1 Underlying	4/13/2017	14	90	206.0	-56	4.9	21.3	-77	457	658.9	-31	
MU-112	MU1 Underlying	5/1/2017	18	92	206.0	-55	5.0	21.3	-76	456	658.9	-31	
MU-112	MU1 Underlying	5/11/2017	10	96	206.0	-54	4.5	21.3	-79	454	658.9	-31	
MU-112	MU1 Underlying	5/31/2017	20	95	206.0	-54	5.5	21.3	-74	453	658.9	-31	
MU-112	MU1 Underlying	6/16/2017	16	97	206.0	-53	5.6	21.3	-74	455	658.9	-31	
MU-112	MU1 Underlying	6/30/2017	14	96	206.0	-53	5.6	21.3	-74	488	658.9	-26	
MU-113	MU1 Underlying	4/13/2017	13	89	206.0	-57	4.8	21.3	-78	484	658.9	-27	
MU-113	MU1 Underlying	5/1/2017	18	90	206.0	-56	4.7	21.3	-78	483	658.9	-27	
MU-113	MU1 Underlying	5/11/2017	10	92	206.0	-55	5.0	21.3	-76	484	658.9	-27	
MU-113	MU1 Underlying	5/31/2017	20	95	206.0	-54	5.5	21.3	-74	493	658.9	-25	
MU-113	MU1 Underlying	6/16/2017	16	93	206.0	-53	5.0	21.3	-80	492	658.9	-17	
MU-113	MU1 Underlying	6/30/2017	14	104	206.0	-26	6.3	21.3	-75	516	658.9	-13	
LC29M	Regional DE	6/7/2017	---	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficient water
MB-10	Regional DE	6/7/2017	---	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 (yellow highlight)* : Indicates warning when result is > UCL but < 120% of UCL

***Bold Italics (red highlight)*** : Indicates one value > 120% of UCL; or 2 or 3 values > UCL

**Attachment 4: MU1 Water Quality Data - QC  
2nd Quarter 2017  
Lost Creek ISR Project PT788**

QC Sample ID	Collection Date	QC Type	Source Sample ID	Alkalinity (mg/L)			Chloride (mg/L)			Sp. Cond. (uS/cm)		
				QC Sample Assay	Source Sample Assay	RPD	QC Sample Assay	Source Sample Assay	RPD	QC Sample Assay	Primary Sample Assay	RPD
M-129	4/11/2017	Duplicate	M-116	101	99	3	5.4	5.2	3	500	490	2
M-129	4/26/2017	Duplicate	M-124	110	110	1	4.8	4.9	4	470	463	2
M-129	5/9/2017	Duplicate	M-117	97	98	1	5.2	4.5	14	509	500	2
M-129	5/23/2017	Duplicate	M-117	103	100	3	5.4	5.6	5	510	500	2
M-129	6/13/2017	Duplicate	M-122	107	115	7	5.1	5.4	5	510	503	1
M-129	6/27/2017	Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	32	N/A	N/A
M-130	4/11/2017	Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	26	N/A	N/A
M-130	4/26/2017	Blank	N/A	1	N/A	N/A	0.3	N/A	N/A	1	N/A	N/A
M-130	5/9/2017	Blank	N/A	1	N/A	N/A	0.5	N/A	N/A	1	N/A	N/A
M-130	5/23/2017	Blank	N/A	14	N/A	N/A	0.0	N/A	N/A	29	N/A	N/A
M-130	6/14/2017	Blank	N/A	13	N/A	N/A	0.0	N/A	N/A	36	N/A	N/A
M-131	4/11/2017	Duplicate	M-117	97	98	1	5.1	5.6	10	509	503	1
M-131	4/26/2017	Duplicate	M-125	104	116	11	5.8	5.4	8	545	543	0
M-131	5/9/2017	Duplicate	M-118	92	94	2	4.5	5.4	17	506	506	0
M-131	5/23/2017	Duplicate	M-118	96	95	2	5.5	5.3	3	512	497	3
M-131	6/13/2017	Duplicate	M-123	117	111	5	5.2	5.9	14	498	497	0
M-131	6/27/2017	Blank	N/A	16	N/A	N/A	0.0	N/A	N/A	34	N/A	N/A
M-132	4/11/2017	Blank	N/A	9	N/A	N/A	0.0	N/A	N/A	26	N/A	N/A
M-132	4/26/2017	Blank	N/A	2	N/A	N/A	0.2	N/A	N/A	3	N/A	N/A
M-132	5/9/2017	Blank	N/A	4	N/A	N/A	0.0	N/A	N/A	9	N/A	N/A
M-132	5/23/2017	Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	31	N/A	N/A
M-132	6/14/2017	Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	33	N/A	N/A
M-132	6/27/2017	Duplicate	M-114A	102	104	1	6.5	6.8	4	492	529	7
MO-121	4/12/2017	Duplicate	MO-105	98	98	1	5.4	5.8	7	486	480	1
MO-121	4/27/2017	Duplicate	MO-101	102	103	1	6.9	6.5	6	657	646	2
MO-121	5/11/2017	Duplicate	MO-111	115	111	3	9.1	9.5	4	491	491	0
MO-121	5/30/2017	Duplicate	MO-108	102	102	0	6.4	6.3	1	500	486	3
MO-121	6/15/2017	Duplicate	KPW-2	132	120	9	13.9	16.6	17	591	593	0
MO-121	6/29/2017	Duplicate	MO-108	106	99	7	7.5	5.6	28	521	489	6
MO-122	4/12/2017	Blank	N/A	14	N/A	N/A	0.0	N/A	N/A	31	N/A	N/A
MO-122	5/11/2017	Duplicate	MO-112	103	111	7	6.8	6.5	4	436	432	1
MO-122	5/30/2017	Duplicate	KPW-2	123	134	8	11.5	12.8	11	586	582	1
MO-122	6/15/2017	Duplicate	MU-101	98	108	10	5.9	6.2	4	492	548	11
MO-122	6/30/2017	Blank	N/A	15	N/A	N/A	0.0	N/A	N/A	38	N/A	N/A
MU-123	4/12/2017	Duplicate	MU-105	101	97	4	4.6	4.9	6	441	437	1
MU-123	5/11/2017	Blank	N/A	1	N/A	N/A	0.5	N/A	N/A	1	N/A	N/A
MU-123	5/31/2017	Blank	N/A	11	N/A	N/A	0.0	N/A	N/A	30	N/A	N/A
MU-123	6/15/2017	Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	33	N/A	N/A
MU-123	6/29/2017	Blank	N/A	17	N/A	N/A	0.0	N/A	N/A	35	N/A	N/A
MU-124	4/12/2017	Blank	N/A	8	N/A	N/A	0.0	N/A	N/A	21	N/A	N/A
MU-124	5/11/2017	Blank	N/A	0	N/A	N/A	0.4	N/A	N/A	1	N/A	N/A
MU-124	5/31/2017	Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	30	N/A	N/A
MU-124	6/15/2017	Blank	N/A	13	N/A	N/A	0.0	N/A	N/A	32	N/A	N/A
MU-124	6/30/2017	Blank	N/A	3	N/A	N/A	0.0	N/A	N/A	13	N/A	N/A

RPD: Relative Percent Difference