Facility Well Name Holly Frontier #1 **UIC Permit #** KS-01-115-001 **Month** September **Year** 2019

Submitted 10/28/2019 **Approved** 10/28/2019 **KOLAR Document ID** 1476991

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

Barrels per Day Maximum: 6,167

			Annulus Pressure psig min 60		Injection Pressure		
	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Gauge psig	Cont. Record psig	Gauge psig	Cont. Record psig	Amount Added to Seal Pot
Monthly Average	1,335	0.99	127	125	-24.1	-24.5	
Monthly Maximum	1,925	1.95	138	130	-23.0	-20.2	
Monthly Minimum	1,089	0.71	120	120	-25.0	-25.7	
Monthly Total	40,045						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
136.50	120.30	-18.30	-25.90

Comments:

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Daily Recorder Data

Day	Time 24 hr	Injection Volume Barrels Per Day	Injection Rate Barrels Per Minute	Annulus Pressure (Gauge) psig	Annulus Pressure (Continuous Recorder) psig	Injection Pressure (Gauge) + / -	Injection Pressure (Continuous Recorder) + / -	Seal Pot Fluid Level inches	Type of Fluid Added to Seal Pot	Amount of Fluid Added to Seal Pot gallons	Initials of Collector of Field Recordings		
1	09:52	1,430.88	1.00	126	124.2	-25	-25.2	16			RTM		
2	09:15	1,447.71	1.05	126	124.8	-25	-25.4	16			RTM		
3	08:15	1,470.71	1.00	128	126.2	-24	-25.3	16			RC		
4	10:45	1,440.79	1.26	132	128.3	-24	-24.0	16			RC		
5	07:27	1,442.07	0.86	126	125.5	-24	-25.2	16			CM		
6	07:00	1,395.86	1.00	129	127.1	-24	-25.2	17			CM		
7	05:50	1,315.98	0.98	135	125.1	-23	-25.3	17			PS		
8	07:30	1,341.05	0.98	138	128.3	-23	-25.0	16			PS		
9	09:20	1,326.24	0.95	128	126.1	-24	-25.1	16			RC		
10	08:14	1,366.29	0.93	128	126.1	-24	-25.1	16			CM		
11	10:40	1,371.40	1.10	128	124.7	-24	-24.0	16			RC		
12	08:10	1,353.24	0.98	127	125.7	-23	-25.1	16			RC		
13	07:45	1,368.55	1.00	120	121.8	-24	-25.2	16			RC		
14	11:03	1,400.19	0.71	129	127.4	-24	-25.5	15			GAO		
15	10:36	1,329.52	0.95	132	130.0	-24	-25.5	16			GAO		
16	09:10	1,279.48	0.95	132	129.7	-24	-21.7	16			RC		
17	08:40	1,239.21	0.90	128	127.1	-24	-21.0	16			RC		
18	08:10	1,088.60	0.88	128	125.9	-24	-23.9	15			RC		
19	06:55	1,264.76	1.19	128	125.4	-24	-25.7	16			SW		
20	08:25	1,203.10	0.90	130	125.9	-24	-25.6	15			RC		
21	08:00	1,118.36	0.83	126	123.8	-24	-23.7	15			TN		
22	09:00	1,142.83	0.74	124	122.6	-24	-24.2	15			TN		
23	07:45	1,176.38	0.90	124	122.0	-25	-23.6	15			CM		
24	08:30	1,274.98	0.74	122	123.3	-25	-25.6	15			CM		
25	10:20	1,192.17	0.93	128	126.0	-24	-25.4	15			RC		
26	07:15	1,243.95	1.07	122	121.0	-25	-20.9	15			SW		
27	07:25	1,925.48	1.95	125	124.0	-24	-20.2	15			SW		
28	08:15	1,384.33	1.02	122	120.4	-25	-25.7	15			RTM		
29	08:52	1,346.45	1.00	124	121.9	-25	-25.5	15			RTM		
30	08:10	1,364.36	0.93	123	123.0	-24	-25.5	15			RC		
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Weekly Injectate Samples

Kansas Lab Certificate Number E-10146

Week	**Temperature**		**pH**		**Chloride**				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	112.24	09/04/2019	8.70	09/04/2019	113.0	09/04/2019	09/11/2019		
2	112.38	09/11/2019	7.30	09/11/2019	76.5	09/11/2019	09/17/2019		
3	111.49	09/18/2019	7.50	09/18/2019	308.0	09/18/2019	09/25/2019		
4	112.86	09/25/2019	8.00	09/25/2019	296.0	09/25/2019	09/30/2019		
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No monthly injectate samples required.