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

Submitted 01/28/2020 **Approved** 02/04/2020 **KOLAR Document ID** 1491956

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

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	1,363	0.90	144	143	-20.6	-25.8	
Monthly Maximum	2,651	2.26	168	163	-19.0	-21.1	
Monthly Minimum	889	0.50	103	107	-26.0	-26.4	
Monthly Total	42,267						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
178.00	98.00	-9.10	-26.50

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	09:00	1,271.45	0.86	135	130.0	-26	-26.2	20			PS		
2	08:00	1,137.64	0.88	135	135.5	-20	-26.0	20			RC		
3	08:20	1,134.00	0.88	142	139.6	-20	-25.9	21			RC		
4	10:45	1,135.05	0.76	145	142.7	-20	-25.1	21			RC		
5	07:10	1,118.05	0.79	142	140.9	-20	-26.0	21			PS		
6	07:20	1,260.55	1.05	138	135.4	-20	-26.0	20			RC		
7	07:25	889.33	0.50	138	135.2	-20	-26.0	21			SW		
8	08:55	1,149.79	0.57	125	122.5	-20	-26.4	19			SW		
9	07:50	1,430.17	0.57	115	114.1	-19	-25.9	22			RC		
10	08:45	1,835.86	1.14	110	108.9	-20	-26.1	20			RC		
11	10:45	1,162.40	0.83	103	107.7	-20	-26.1	20			RC		
12	09:10	1,166.60	0.86	108	106.7	-20	-26.1	21			RC		
13	08:40	1,204.10	0.76	114	111.9	-20	-26.0	21			RC		
14	10:30	1,395.81	1.10	110	134.0	-20	-26.0	21			TN		
15	10:40	2,650.62	1.33	163	161.6	-20	-26.1	20			TN		
16	14:20	2,253.10	0.83	155	156.9	-21	-26.1	20			CM		
17	08:15	1,558.29	0.90	158	157.5	-21	-25.9	20			CM		
18	09:15	1,262.43	1.62	162	161.4	-21	-26.0	20			CM		
19	08:10	1,269.19	0.71	160	159.9	-21	-25.9	21			CM		
20	07:55	1,175.00	0.79	156	158.5	-21	-26.0	21			CM		
21	09:15	1,301.79	0.83	162	160.9	-21	-26.0	21			SW		
22	08:40	1,754.17	0.74	162	159.8	-21	-25.9	21			SW		
23	08:15	1,173.33	0.83	158	160.0	-20	-26.0	21			CM		
24	10:47	1,173.98	0.60	164	162.7	-21	-25.8	21			RTM		
25	10:11	1,349.98	0.86	164	161.8	-20	-25.8	21			RTM		
26	09:30	1,778.00	2.26	168	157.7	-21	-21.1	21			CM		
27	08:05	1,379.17	0.98	152	154.7	-21	-26.0	21			CM		
28	11:25	1,399.81	0.81	155	159.1	-21	-26.0	20			PS		
29	09:30	1,167.40	0.93	164	153.3	-21	-26.1	22			PS		
30	10:50	1,162.71	0.79	148	146.7	-20	-26.2	20			RC		
31	09:15	1,167.57	0.55	150	150.0	-21	-26.1	20			CM		

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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	105.00	12/04/2019	8.20	12/04/2019	61.9	12/04/2019	12/05/2019		
2	97.00	12/11/2019	8.00	12/11/2019	65.4	12/11/2019	12/18/2019		
3	101.00	12/18/2019	9.20	12/18/2019	50.8	12/18/2019	12/19/2019		
4	102.00	12/23/2019	9.20	12/23/2019	50.9	12/23/2019	12/27/2019		
5	96.00	12/30/2019	9.10	12/30/2019	52.6	12/30/2019	12/31/2019		

No monthly injectate samples required.