Facility Well Name Holly Frontier #1 **UIC Permit #** KS-01-115-001 **Month** May **Year** 2022

Submitted 06/22/2022 **Approved** 06/29/2022 **KOLAR Document ID** 1649328

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 6,167

	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Annulus Pressure psig min 60 Gauge psig	Annulus Pressure Cont. Record psig	Injection Pressure Gauge psig	Injection Pressure Cont. Record psig	Amount Added to Seal Pot
Monthly Average	1,147	0.69	136	136	-24.0	-22.6	
Monthly Maximum	1,453	1.12	155	156	-18.0	-16.1	
Monthly Minimum	622	0.00	120	118	-27.0	-26.1	
Monthly Total	35,551						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
173.30	110.60	-9.90	-26.40

Comments:

pH was reported at 3.8 to Ken Brooks on 5/11/2022. Second test on 5/11 resulted in pH 4.0 so the average is reported. Foaming interfered with upstream ph control. Issue was addressed and corrected.

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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	08:00	1,414.19	0.60	130	135.8	-27	-25.4	20			BC		
2	08:30	1,140.98	0.36	130	128.7	-27	-25.9	19			BC		
3	08:15	961.05	0.48	120	117.5	-27	-26.1	17			BC		
4	10:55	1,023.88	0.67	120	121.2	-27	-26.0	17			BC		
5	07:15	1,020.71	0.57	128	125.7	-27	-25.9	17			SW		
6	07:10	1,362.45	1.07	128	125.6	-27	-25.8	18			SW		
7	07:05	1,410.33	0.88	138	134.1	-27	-25.7	19			SW		
8	08:00	1,323.48	0.83	132	131.1	-27	-25.8	19			SW		
9	08:15	1,240.79	1.10	140	141.4	-27	-25.3	20			BC		
10	11:30	1,165.88	0.17	150	152.6	-26	-24.8	22			BC		
11	10:45	697.57	0.62	150	155.7	-26	-24.6	22			BC		
12	09:00	650.90	0.07	125	122.2	-18	-16.1	17			BC		
13	10:00	1,212.98	1.02	150	153.2	-25	-23.7	22			BC		
14	12:30	1,453.02	0.83	146	144.2	-23	-21.7	23			TN		
15	11:15	1,020.83	0.00	130	127.3	-26	-24.8	21			TN		
16	09:00	1,299.67	0.88	150	150.8	-25	-23.6	24			BC		
17	10:15	1,136.17	1.12	140	136.7	-25	-23.2	25			BC		
18	10:45	1,256.71	0.81	155	143.7	-24	-22.6	25			BC		
19	10:45	1,280.26	0.95	140	139.9	-18	-16.1	25			BC		
20	08:00	1,271.88	0.93	140	138.8	-22	-20.9	25			BC		
21	09:30	1,209.26	0.90	122	120.9	-24	-21.8	24			BM		
22	10:20	1,246.52	0.83	148	146.1	-20	-17.7	21			BM		
23	07:45	1,264.83	0.69	140	142.5	-22	-20.2	21			BC		
24	09:15	622.36	0.00	130	128.5	-19	-16.8	19			BC		
25	11:00	1,263.98	0.50	130	133.9	-25	-23.0	20			BC		
26	09:00	1,270.69	0.93	130	129.0	-24	-22.4	19			BC		
27	10:30	1,194.57	0.81	140	141.0	-21	-19.0	21			BC		
28	13:45	1,059.36	0.64	138	134.4	-21	-19.9	21			TN		
29	11:45	997.02	0.76	140	136.9	-22	-21.1	19			TN		
30	08:30	1,034.24	0.55	135	134.0	-24	-22.9	19			BC		
31	08:20	1,043.93	0.81	130	131.6	-22	-20.7	19			BC		

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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	96.93	05/04/2022	8.60	05/04/2022	303.0	05/04/2022	05/12/2022		
2	120.76	05/11/2022	3.90	05/11/2022	329.0	05/11/2022	05/17/2022		
3	133.52	05/18/2022	6.60	05/18/2022	231.0	05/18/2022	05/20/2022		
4	110.47	05/25/2022	7.40	05/25/2022	174.0	05/25/2022	05/28/2022		
5									

No monthly injectate samples required.