Facility Well Name Holly Frontier #1 **UIC Permit #** KS-01-115-001 **Month** October **Year** 2021

Submitted 11/17/2021 **Approved** 11/29/2021 **KOLAR Document ID** 1599373

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 21

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	1,279	0.88	149	144	-27.0	-17.7	
Monthly Maximum	1,394	1.19	160	161	-27.0	-1.0	
Monthly Minimum	543	0.62	135	134	-27.0	-26.0	
Monthly Total	26,854						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
166.00	130.7	1.80	-26.40

Comments:

From 10/1/21 to 10/10/21 Flow to the well from the scrubber was diverted so no flow was going to the well. Manual readings were not taken during that time. The maximum injection pressure was 1.8 " Hg (positive) and it occurred when the flow was diverted away from the well (10/1 - 10/11). Maximum pressure from 10/11/2021 to 10/31/2021 was -25.1" Hg.

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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				136.7		-1.0						
2	08:00				136.3		-1.0						
3	08:00				134.7		-1.0						
4	08:00				133.7		-1.1						
5	08:00				133.9		-1.1						
6	08:00				134.6		-1.0						
7	08:00				133.9		-1.1						
8	08:00				135.3		-1.0						
9	08:00				135.9		-1.0						
10	08:00				136.1		-1.0						
11	20:30	542.67	0.67	135	135.2	-27	-25.7	17			RC		
12	07:40	1,313.93	0.79	150	147.7	-27	-25.7	19			SW		
13	10:45	1,336.07	1.07	150	150.8	-27	-25.5	20			BC		
14	09:00	1,350.55	1.02	150	149.3	-27	-25.7	20			BC		
15	08:15	1,346.90	1.07	150	145.1	-27	-25.8	20			BC		
16	08:30	1,367.33	0.62	145	143.0	-27	-25.8	20			BC		
17	08:20	1,375.00	1.14	155	155.2	-27	-25.7	21			RC		
18	09:30	1,359.83	1.12	155	155.6	-27	-25.6	21			RC		
19	08:30	1,390.33	0.71	150	151.0	-27	-25.8	21			RC		
20	10:50	1,345.05	1.02	160	157.5	-27	-25.5	22			BC		
21	09:00	1,393.60	0.95	150	147.8	-27	-25.7	21			BC		
22	09:45	1,392.62	0.86	155	153.3	-27	-25.6	21			BC		
23	08:25	1,377.24	0.83	155	154.1	-27	-25.6	21			BC		
24	08:30	1,391.38	0.83	160	160.6	-27	-25.3	21			RC		
25	08:45	1,389.95	1.19	147	144.4	-27	-25.7	21			RC		
26	07:45	1,219.62	0.71	145	143.8	-27	-25.9	20			SW		
27	10:40	1,226.19	0.69	149	146.7	-27	-25.7	20			SW		
28	07:15	1,177.90	0.62	138	136.7	-27	-26.0	20			SW		
29	11:00	1,205.98	0.71	140	137.3	-27	-26.0	19			RC		
30	08:45	1,186.55	1.05	145	145.5	-27	-25.6	20			RC		
31	08:20	1,165.00	0.86	148	147.0	-27	-25.6	21			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	65.80	10/06/2021		10/06/2021					
2	105.20	10/13/2021	8.70	10/13/2021	259.0	10/13/2021	10/18/2021		
3	108.00	10/20/2021	7.00	10/20/2021	181.0	10/20/2021	10/22/2021		
4	104.30	10/27/2021	7.40	10/27/2021	250.0	10/27/2021	11/02/2021		
5									

No monthly injectate samples required.