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

Submitted 01/24/2022 **Approved** 01/27/2022 **KOLAR Document ID** 1613073

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	1,257	0.90	132	131	-27.1	-25.9	
Monthly Maximum	1,525	2.43	140	138	-27.0	-25.7	
Monthly Minimum	1,143	0.02	125	124	-28.0	-26.3	
Monthly Total	38,979						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
144.10	123.90	-25.40	-26.40

Comments:

Flow Meter display not working properly for manual readings 12/27/21 to 12/31/21. Repair order issued to fix. Flowrates still were recorded by data acquisition system for GPD reading. Repaired 1/10/22.

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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	11:00	1,143.21	0.98	135	134.4	-27	-26.0	18			BC		
2	08:30	1,272.71	0.88	135	135.8	-27	-26.0	18			BC		
3	10:00	1,352.02	0.79	140	138.2	-27	-25.8	20			BC		
4	09:51	1,262.36	0.64	134	132.5	-27	-25.9	19			TN		
5	08:05	1,317.69	0.52	136	135.1	-27	-25.9	19			TN		
6	07:40	1,339.86	1.33	125	124.0	-27	-26.3	18			SW		
7	08:00	1,330.50	1.02	130	127.2	-27	-26.2	18			SW		
8	11:00	1,525.10	0.48	130	130.8	-27	-26.0	19			BC		
9	09:00	1,291.45	0.29	135	134.3	-27	-25.8	19			BC		
10	10:20	1,225.81	1.00	135	135.8	-27	-25.8	20			BC		
11	08:15	1,219.26	0.83	130	126.7	-27	-26.1	18			BC		
12	08:30	1,219.52	0.79	130	129.1	-27	-25.9	19			BC		
13	07:35	1,229.50	0.81	130	130.4	-27	-25.9	19			SW		
14	08:00	1,232.69	0.95	132	130.9	-27	-25.9	19			SW		
15	10:50	1,218.40	0.71	140	136.7	-27	-25.7	20			SW		
16	08:30	1,221.17	0.93	125	128.2	-27	-26.0	19			BC		
17	09:30	1,232.95	0.86	130	128.3	-27	-25.9	19			BC		
18	09:45	1,229.48	0.69	125	124.9	-28	-26.1	19			BC		
19	10:15	1,238.86	0.71	125	125.8	-28	-26.1	19			BC		
20	10:50	1,247.07	0.71	130	127.7	-27	-25.9	19			SW		
21	07:35	1,245.40	0.74	132	130.2	-27	-25.8	19			SW		
22	07:25	1,245.24	0.76	130	130.8	-27	-25.9	20			SW		
23	08:30	1,190.64	0.40	132	131.9	-27	-25.8	20			SW		
24	08:15	1,158.12	0.98	130	132.7	-27	-25.7	20			BC		
25	08:00	1,256.21	0.76	130	132.4	-27	-25.8	20			BC		
26	06:48	1,253.52	0.90	136	133.8	-27	-25.8	20			KCS		
27	07:20	1,256.43	2.40	132	130.9	-27	-25.9	20			SW		
28	07:45	1,257.55	2.40	130	128.4	-27	-25.9	19			SW		
29	10:50	1,257.02	2.43	128	125.5	-27	-26.1	19			SW		
30	07:15	1,255.48	0.02	130	129.9	-27	-25.9	20			SW		
31	07:10	1,254.07	0.02	135	129.9	-27	-25.9	20			SW		

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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	101.13	12/01/2021	7.80	12/01/2021	295.0	12/01/2021	12/06/2021		
2	100.82	12/08/2021	7.60	12/08/2021	284.0	12/08/2021	12/10/2021		
3	103.36	12/15/2021	8.70	12/15/2021	320.0	12/15/2021	12/20/2021		
4	99.77	12/20/2021	8.30	12/20/2021	297.0	12/20/2021	12/22/2021		
5	99.23	12/29/2021	7.50	12/29/2021	260.0	12/29/2021	01/04/2022		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 12/15/2021
Kansas Lab Certificate Number E-10146
Lab Name Pace Analytical-Salina

These samples shall be representative of injection activity and shall therefore be collected on days of injection.

Constituent	Value	Units
Ammonia	27.400	mg/l
Arsenic	<0.010	mg/l
Benzene	<0.001	mg/l
Calcium	202.000	mg/l
Chromium	0.0090	mg/l
Conductivity	17.200	Mmhos
Cyanide	0.210	mg/l
Ethylbenzene	<0.001	mg/l
Iron	0.160	mg/l
Magnesium	26.000	mg/l
Oil & Grease	<5.000	mg/l
Sodium	4,830.000	mg/l
Sulfate	10,000.000	mg/l
Toluene	<0.001	mg/l
Total Alkalinity as CaCO3	302.000	mg/l
Total Dissolved Solids	16,600.000	mg/l
Total Suspended Solids	18.000	mg/l
Xylene	<0.003	mg/l