Facility Well Name Holly Frontier #1 **UIC Permit #** KS-01-115-001 **Month** November **Year** 2023

Submitted 12/20/2023 **Approved** 01/02/2024 **KOLAR Document ID** 1740621

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	1,002	0.64	148	146	-22.6	-21.6	
Monthly Maximum	1,426	1.14	174	171	-10.0	-9.1	
Monthly Minimum	758	0.29	127	126	-28.0	-25.7	
Monthly Total	30,066						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
185.80	125.10	-7.00	-26.70

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	08:00	1,101.33	0.83	153	151.9	-19	-17.9	13			MM		
2	09:00	1,098.62	0.62	153	152.1	-18	-17.7	13			MM		
3	08:00	1,089.60	0.57	155	154.2	-18	-17.7	13			MM		
4	09:12	1,086.69	0.57	160	159.3	-14	-12.8	14			BC		
5	07:44	1,089.55	0.83	160	159.4	-14	-13.0	14			BC		
6	08:00	1,089.86	0.33	160	162.0	-14	-13.8	14			TR		
7	08:00	1,092.98	0.95	160	163.1	-15	-14.2	14			TR		
8	08:00	1,092.21	0.86	166	164.1	-15	-15.7	14			TR		
9	08:00	843.14	0.74	149	147.6	-17	-15.6	14			MM		
10	08:00	818.24	0.43	150	149.7	-10	-9.1	14			MM		
11	08:30	1,020.19	0.55	174	170.8	-26	-24.7	21			MM		
12	08:00	1,426.36	0.71	160	156.9	-26	-24.6	22			TR		
13	08:00	856.79	0.60	146	141.7	-25	-24.6	23			TR		
14	08:00	900.02	0.48	135	131.9	-26	-24.9	21			TR		
15	08:00	784.90	0.60	138	137.0	-26	-25.0	22			TR		
16	08:00	1,181.98	0.74	150	147.9	-26	-24.5	23			MM		
17	08:00	1,333.19	1.14	154	151.9	-26	-24.5	24			MM		
18	08:00	990.50	0.29	148	147.4	-26	-24.7	24			MM		
19	08:00	854.86	0.69	143	138.3	-26	-25.3	22			MM		
20	08:00	1,213.95	0.86	144	140.9	-25	-25.0	22			TR		
21	08:00	910.24	0.81	138	138.1	-26	-25.3	22			TR		
22	08:00	938.05	0.71	148	140.0	-28	-25.0	22			TR		
23	08:00	757.55	0.57	155	135.9	-26	-25.2	21			TR		
24	09:00	812.10	0.74	128	126.5	-27	-25.6	20			MM		
25	07:30	798.05	0.52	130	128.1	-26	-25.4	20			MM		
26	08:00	786.33	0.52	127	125.7	-26	-25.5	20			MM		
27	07:30	803.17	0.50	129	130.2	-27	-25.7	20			MM		
28	08:30	1,014.26	0.33	138	136.5	-27	-25.6	21			MM		
29	08:00	1,340.12	0.57	154	153.2	-26	-24.8	23			TR		
30	08:00	941.43	0.62	146	144.3	-26	-25.1	23			TR		
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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	61.90	11/01/2023	7.00	11/01/2023	49.3	11/01/2023	11/03/2023		
2	70.80	11/08/2023	7.10	11/08/2023	43.6	11/08/2023	11/09/2023		
3	108.50	11/15/2023	6.60	11/15/2023	488.0	11/15/2023	11/21/2023		
4	112.20	11/20/2023	6.80	11/20/2023	420.0	11/20/2023	11/21/2023		
5	115.40	11/29/2023	6.50	11/29/2023	492.0	11/29/2023	12/01/2023		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 11/15/2023
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	13.100	mg/l
Arsenic	<0.030	mg/l
Benzene	<0.001	mg/l
Calcium	170.000	mg/l
Chromium	<0.0150	mg/l
Conductivity	30.700	Mmhos
Cyanide	<0.005	mg/l
Ethylbenzene	<0.001	mg/l
Iron	<0.150	mg/l
Magnesium	62.000	mg/l
Oil & Grease	<5.100	mg/l
Sodium	6.310	mg/l
Sulfate	19,400.000	mg/l
Toluene	<0.001	mg/l
Total Alkalinity as CaCO3	426.000	mg/l
Total Dissolved Solids	29,700.000	mg/l
Total Suspended Solids	21.000	mg/l
Xylene	<0.003	mg/l