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

Submitted 07/21/2022 **Approved** 07/28/2022 **KOLAR Document ID** 1657224

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 29

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	1,052	0.76	143	141	-25.7	-24.3	
Monthly Maximum	1,349	1.12	165	158	-24.0	-23.7	
Monthly Minimum	456	0.21	120	121	-27.0	-25.1	
Monthly Total	30,497						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
171.70	-0.40	-1.70	-25.60

Comments:

Fall Off Test (FOT) performed on June 2, 2022 so no data was available. Minumum Annulus pressure occurred during lockout procedure setting the wellhead up for the FOT.

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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	10:50	1,057.45	0.81	130	131.1	-26	-24.2	19			BC		
2													
3	23:47	456.14	0.86	158	156.8	-26	-24.6	18			BM		
4	07:36	1,067.24	0.52	153	154.6	-26	-24.7	18			PS		
5	07:40	1,077.40	0.76	165	154.7	-25	-24.6	19			PS		
6	08:00	1,080.86	0.98	150	157.5	-25	-24.5	19			BC		
7	08:30	1,069.14	0.79	135	134.8	-26	-24.4	19			BC		
8	10:50	752.62	0.45	120	120.8	-27	-25.0	18			BC		
9	08:30	850.62	0.62	135	136.8	-26	-24.6	18			BC		
10	08:30	561.36	0.43	130	126.8	-27	-25.1	17			BC		
11	09:23	989.90	0.60	142	141.6	-26	-24.5	18			BM		
12	07:45	866.10	0.60	144	142.5	-25	-24.4	19			TN		
13	18:03	811.07	0.71	145	140.9	-25	-24.8	19			PS		
14	09:45	1,160.83	0.21	146	139.5	-24	-23.8	19			KS		
15	07:03	1,291.81	0.95	150	145.3	-26	-24.7	20			PS		
16	08:00	1,141.93	0.98	150	148.6	-26	-23.8	20			PS		
17	08:40	1,206.48	0.52	145	141.1	-26	-24.5	20			PS		
18	06:35	1,334.48	1.00	150	150.1	-26	-24.0	21			PS		
19	08:20	1,210.52	1.05	150	148.9	-26	-23.9	20			PS		
20	07:06	838.26	0.71	144	132.2	-26	-24.7	19			KCS		
21	06:56	805.36	0.74	130	127.6	-27	-24.8	18			BM		
22	06:00	989.71	0.69	140	127.9	-26	-24.6	18			PS		
23	06:05	966.40	0.90	140	138.0	-26	-24.1	19			PS		
24	06:00	994.67	0.62	138	135.5	-25	-24.2	19			PS		
25	09:13	1,327.00	0.69	148	145.8	-25	-23.8	21			BM		
26	08:45	1,337.50	0.98	138	137.4	-26	-24.0	21			SW		
27	04:20	1,349.48	1.12	148	138.0	-26	-24.1	21			SW		
28	07:28	1,339.93	0.95	140	138.1	-25	-23.9	21			BM		
29	10:45	1,295.98	0.95	142	139.7	-25	-23.9	20			TN		
30	21:00	1,267.17	0.79	150	145.6	-25	-23.7	21			BM		
31													

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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	110.44	06/01/2022	7.10	06/01/2022	264.0	06/01/2022	06/02/2022		
2	100.51	06/08/2022	7.20	06/08/2022	265.0	06/08/2022	06/10/2022		
3	117.09	06/15/2022	7.20	06/15/2022	142.0	06/15/2022	06/20/2022		
4	112.26	06/22/2022	6.70	06/22/2022	381.0	06/22/2022	06/28/2022		
5	121.23	06/29/2022	7.10	06/29/2022	268.0	06/29/2022	06/30/2022		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 06/15/2022
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	16.200	mg/l
Arsenic	<0.010	mg/l
Benzene	<0.001	mg/l
Calcium	130.000	mg/l
Chromium	0.0070	mg/l
Conductivity	20.800	Mmhos
Cyanide	0.400	mg/l
Ethylbenzene	<0.001	mg/l
Iron	1.410	mg/l
Magnesium	13.100	mg/l
Oil & Grease	<5.000	mg/l
Sodium	6,310.000	mg/l
Sulfate	12,700.000	mg/l
Toluene	<0.001	mg/l
Total Alkalinity as CaCO3	118.000	mg/l
Total Dissolved Solids	22,200.000	mg/l
Total Suspended Solids	16.000	mg/l
Xylene	<0.003	mg/l