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

Submitted 12/27/2022 **Approved** 12/28/2022 **KOLAR Document ID** 1676844

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	1,183	0.77	138	137	-24.7	-23.4	
Monthly Maximum	2,420	1.19	160	158	-5.0	-2.2	
Monthly Minimum	806	0.31	110	112	-27.0	-25.3	
Monthly Total	35,476						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
161.50	107.70	0.00	-26.40

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	07:30	1,271.71	0.90	135	133.4	-26	-24.2	27			BC		
2	11:45	1,221.40	1.05	140	138.1	-26	-23.8	27			BC		
3	10:00	972.43	0.60	125	120.6	-26	-24.0	25			BC		
4	08:30	1,052.05	0.83	130	128.7	-26	-24.8	25			BC		
5	10:30	1,057.62	0.62	115	115.5	-26	-24.8	24			BC		
6	12:00	1,142.43	0.83	125	126.6	-26	-24.6	24			BC		
7	12:30	1,203.64	0.57	125	127.3	-27	-24.6	26			BC		
8	10:30	1,261.45	1.19	130	129.5	-26	-24.3	26			BC		
9	10:45	1,187.98	0.52	120	120.9	-27	-24.9	25			BC		
10	14:30	1,203.29	0.83	125	126.3	-26	-24.6	26			BC		
11	08:00	996.38	0.50	110	112.3	-27	-25.2	24			BC		
12	06:22	935.12	0.79	120	135.8	-26	-25.1	20			PS		
13	08:44	1,158.71	0.93	150	147.4	-26	-24.5	24			BM		
14	07:00	1,043.83	0.76	147	146.1	-26	-24.4	24			MM		
15	07:45	1,150.74	1.10	152	152.2	-25	-23.9	26			MM		
16	07:30	861.12	0.31	137	136.2	-26	-24.3	23			MM		
17	08:30	996.17	0.55	141	139.5	-27	-24.9	23			MM		
18	08:00	977.50	0.52	138	137.5	-27	-25.1	23			MM		
19	08:30	1,065.95	0.62	140	138.8	-27	-25.0	23			SW		
20	07:20	1,505.24	0.86	150	150.4	-26	-24.4	25			SW		
21	18:00	1,187.62	0.98	150	146.4	-10	-12.4	25			PS		
22	18:14	805.55	0.33	150	142.0	-5	-2.2	24			PS		
23	19:30	889.79	0.52	150	147.0	-25	-24.2	24			PS		
24	09:15	1,620.40	0.74	160	158.4	-25	-23.9	26			BC		
25	07:30	2,420.12	1.00	150	147.5	-25	-24.9	24			PS		
26	18:00	1,357.19	0.93	150	151.8	-25	-24.4	26			PS		
27	08:00	1,422.19	0.98	150	145.3	-25	-24.8	25			PS		
28	08:00	1,352.31	1.02	149	147.1	-25	-24.8	26			MM		
29	08:00	1,150.98	0.86	142	140.7	-25	-24.8	26			MM		
30	11:00	1,005.48	0.74	127	126.5	-26	-25.3	22			MM		
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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	116.10	11/02/2022	7.00	11/02/2022	280.0	11/02/2022	11/08/2022		
2	105.51	11/09/2022	7.10	11/09/2022	309.0	11/09/2022	11/14/2022		
3	96.60	11/16/2022	7.70	10/19/2022	346.0	11/16/2022	11/23/2022		
4	109.25	11/21/2022	7.40	11/21/2022	264.0	11/21/2022	11/24/2022		
5	101.14	11/30/2022	7.30	11/30/2022	587.0	11/30/2022	12/07/2022		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 11/30/2022
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	1.050	mg/l
Arsenic	<0.200	mg/l
Benzene	<0.001	mg/l
Calcium	190.000	mg/l
Chromium	<0.1000	mg/l
Conductivity	40.300	Mmhos
Cyanide	<0.005	mg/l
Ethylbenzene	<0.001	mg/l
Iron	<1.000	mg/l
Magnesium	36.600	mg/l
Oil & Grease	<5.000	mg/l
Sodium	10,900.000	mg/l
Sulfate	38,900.000	mg/l
Toluene	<0.001	mg/l
Total Alkalinity as CaCO3	<20.000	mg/l
Total Dissolved Solids	41,400.000	mg/l
Total Suspended Solids	25.000	mg/l
Xylene	<0.003	mg/l