Facility Well Name Holly Frontier #1 **UIC Permit #** KS-01-115-001 **Month** May **Year** 2020

Submitted 06/26/2020 **Approved** 06/29/2020 **KOLAR Document ID** 1521149

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	1,215	0.85	126	125	-22.2	-25.5	
Monthly Maximum	1,882	1.69	140	134	-20.0	-18.2	
Monthly Minimum	941	0.43	117	118	-24.0	-26.0	
Monthly Total	37,675						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
142.80	117.20	-11.10	-26.20

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	07:10	1,244.79	0.88	130	128.6	-23	-25.9	21			SW		
2	09:25	1,247.21	0.86	138	134.4	-22	-25.9	21			SW		
3	09:20	1,246.00	0.86	132	130.2	-23	-25.9	21			BC		
4	08:15	1,251.31	0.90	132	130.2	-23	-26.0	21			BC		
5	09:00	1,253.33	0.90	128	125.7	-23	-25.9	21			BC		
6	11:00	1,267.67	0.83	130	129.3	-23	-26.0	21			BC		
7	09:15	1,660.07	1.00	124	124.2	-23	-25.9	20			RC		
8	08:00	1,881.55	1.17	124	123.4	-23	-26.0	20			RC		
9	08:15	1,847.31	1.26	123	124.0	-23	-25.9	20			RC		
10	09:30	1,251.43	0.93	124	120.6	-24	-26.0	20			RC		
11	07:00	1,265.19	0.93	124	124.1	-24	-25.9	20			CM		
12	07:05	1,300.69	0.93	120	119.6	-24	-25.9	20			CM		
13	10:08	1,456.52	1.69	124	120.5	-24	-26.0	20			CM		
14	09:45	1,239.86	0.90	125	129.8	-23	-25.6	20			CM		
15	08:40	1,219.48	0.76	130	127.3	-23	-26.0	21			SW		
16	07:40	1,277.26	0.83	140	128.9	-23	-25.7	21			SW		
17	08:00	1,268.52	1.00	130	127.5	-23	-21.2	21			SW		
18	07:10	1,253.93	0.86	127	125.4	-23	-18.2	21			SW		
19	10:45	1,216.79	0.83	130	127.7	-21	-25.9	21			BC		
20	10:45	1,214.33	0.86	130	125.8	-21	-25.9	20			BC		
21	10:15	1,240.07	0.86	130	126.5	-21	-25.9	21			BC		
22	10:35	1,026.71	0.86	125	120.7	-21	-25.9	21			BC		
23	09:50	940.81	0.43	120	122.6	-21	-25.8	20			RC		
24	09:00	946.31	0.48	123	123.0	-20	-25.6	20			RC		
25	09:35	955.74	0.67	126	123.8	-20	-25.7	20			TN		
26	08:10	944.79	0.71	117	118.1	-21	-25.8	20			RC		
27	10:50	941.55	0.45	120	121.4	-21	-25.7	20			CM		
28	08:15	955.57	0.69	122	122.1	-21	-25.7	21			CM		
29	06:40	951.57	0.69	122	122.0	-21	-25.7	20			CM		
30	06:48	953.64	0.74	124	123.1	-21	-25.8	20			CM		
31	08:25	954.93	0.71	120	119.6	-21	-25.8	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	104.50	05/06/2020	7.80	05/06/2020	74.3	05/06/2020	05/09/2020		
2	96.60	05/13/2020	7.80	05/13/2020	73.3	05/13/2020	05/15/2020		
3	102.90	05/20/2020	7.80	05/20/2020	69.3	05/20/2020	05/24/2020		
4	100.20	05/27/2020	7.50	05/27/2020	78.8	05/27/2020	05/28/2020		
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 05/13/2020
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	5.230	mg/l
Arsenic	0.035	mg/l
Benzene	<0.001	mg/l
Calcium	107.000	mg/l
Chromium	0.0120	mg/l
Conductivity	7,170.000	Mmhos
Cyanide	0.140	mg/l
Ethylbenzene	<0.001	mg/l
Iron	0.160	mg/l
Magnesium	15.700	mg/l
Oil and Grease	<5.100	mg/l
Sodium	1,800.000	mg/l
Sulfate	3,630.000	mg/l
Toluene	<0.001	mg/l
Total Alkalinity as CaCO3	77.500	mg/l
Total Dissolved Solids	6,430.000	mg/l
Total Suspended Solids	11.000	mg/l
Xylene	<0.003	mg/l