Facility Well Name Holly Frontier #1 **UIC Permit #** KS-01-115-001 **Month** April **Year** 2019

Submitted 05/23/2019 **Approved** 05/26/2019 **KOLAR Document ID** 1461162

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 24

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	1,292	0.96	154	153	-24.9	-25.9	
Monthly Maximum	1,609	1.48	193	193	-21.0	-25.4	
Monthly Minimum	484	0.36	138	135	-27.0	-26.3	
Monthly Total	31,006						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
194.10	110.10	-4.90	-26.36

Comments:

The well was out of service from 4/16/19 to 4/21/19 due to the annual pressure test and five year MIT. There was no discharge during this time.

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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	07:25	1,346.55	0.90	158	156.0	-26	-26.0	16			SW		
2	07:40	1,176.21	0.76	155	154.0	-26	-26.3	15			SW		
3	10:55	1,261.43	1.48	159	157.0	-27	-26.3	16			SW		
4	07:55	1,257.60	0.76	158	156.0	-27	-26.2	16			SW		
5	07:20	1,278.83	0.83	164	162.0	-27	-26.0	17			SW		
6	08:03	1,150.05	0.79	162	161.0	-27	-25.8	16			TN		
7	07:56	1,351.93	1.17	160	160.0	-27	-26.1	16			TN		
8	07:45	1,604.19	1.19	158	158.0	-27	-25.6	18			CM		
9	08:05	1,392.45	0.50	156	158.0	-27	-25.7	18			CM		
10	10:50	1,319.81	0.98	150	147.0	-27	-25.8	16			CM		
11	10:35	1,336.64	0.36	138	138.0	-26	-26.1	17			CM		
12	07:55	1,299.60	1.02	138	135.0	-27	-26.2	15			CM		
13	08:54	1,339.55	1.21	140	139.0	-27	-26.1	15			RTM		
14	08:58	1,297.71	0.55	138	137.0	-27	-26.1	15			RTM		
15	07:40	484.45	1.12	142	140.0	-27	-26.1	16			SW		
16													
17													
18													
19													
20													
21													
22	19:10	926.29	0.93	193	193.0	-21	-25.5	17			SW		
23	07:00	1,609.43	1.45	154	157.0	-22	-25.6	17			CM		
24	10:35	1,555.26	1.17	162	160.0	-22	-25.4	17			CM		
25	07:56	1,352.79	0.98	152	153.0	-22	-25.8	17			CM		
26	06:55	1,389.62	0.98	152	153.0	-22	-25.8	17			CM		
27	08:35	1,386.93	1.29	156	154.0	-21	-25.9	17			GAO		
28	08:30	1,375.45	1.00	146	145.0	-22	-26.0	16			GAO		
29	08:00	1,301.36	0.95	154	155.0	-21	-25.7	17			CM		
30	08:45	1,211.67	0.79	148	147.0	-22	-26.1	16			CM		
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	95.00	04/03/2019	8.10	04/03/2019	83.0	04/03/2019	04/05/2019		
2	97.00	04/10/2019	9.00	04/10/2019	66.8	04/10/2019	04/12/2019		
3	105.00	04/24/2019	8.80	04/24/2019	82.8	04/24/2019	04/29/2019		
4									
5									

No monthly injectate samples required.