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

Submitted 02/27/2020 **Approved** 03/12/2020 **KOLAR Document ID** 1506482

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	1,141	0.82	144	140	-20.2	-25.2	
Monthly Maximum	1,801	1.07	160	157	-8.0	2.3	
Monthly Minimum	1	0.00	125	112	-23.0	-26.6	
Monthly Total	35,381						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
159.10	120.10	-7.10	-26.50

Comments:

Holly Frontier #1 01/2020

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	05:55	1,165.98	0.95	150	150.0	-21	-26.0	21			PS		
2	14:30	1,260.88	1.02	148	117.5	-20	-26.2	21			RC		
3	08:02	1,451.67	0.83	150	149.1	-19	-26.0	21			CM		
4	08:40	1,179.81	0.86	148	147.4	-19	-26.0	20			SW		
5	09:00	1,182.71	0.83	150	149.3	-19	-26.0	21			SW		
6	08:30	1,183.64	0.79	150	148.7	-19	-26.0	20			RC		
7	09:30	1,165.19	0.90	150	147.4	-19	-26.0	20			BC		
8	10:30	1,192.36	0.81	150	150.4	-19	-25.9	21			BC		
9	09:00	1,194.88	0.88	150	151.2	-19	-26.0	21			BC		
10	08:30	1,149.57	0.83	160	155.3	-19	-25.8	21			BC		
11	07:45	1,139.81	0.81	136	135.9	-19	-26.4	19			TN		
12	08:35	1,138.98	0.83	138	137.1	-19	-26.4	19			TN		
13	07:50	1,137.26	0.69	140	141.3	-20	-26.2	20			CM		
14	08:30	1,327.29	0.95	155	152.6	-19	-25.8	21			BC		
15	10:50	1,800.69	1.07	147	115.8	-20	-26.5	20			CM		
16	16:30	1,262.07	0.83	140	156.7	-20	-26.0	20			RC		
17	08:00	1,391.17	0.79	145	136.9	-20	-26.0	19			BC		
18	08:47	1,563.38	1.07	140	137.8	-21	-26.3	20			RTM		
19	09:07	1,678.02	0.98	140	140.5	-21	-26.2	20			RTM		
20	12:15	1,354.62	0.86	140	139.7	-20	-26.1	20			RTM		
21	21:40	195.95	0.83	145	111.8	-21	-26.6	20			BC		
22	11:00	1.17	0.00	125	123.8	-8	2.3	17			BC		
23	15:10	676.76	0.69	136	112.7	-23	-26.4	20			BC		
24	12:30	1,135.64	0.90	135	134.8	-23	-26.3	19			BC		
25	06:30	1,087.76	0.62	141	141.7	-23	-26.0	20			BC		
26	05:45	1,081.69	0.76	146	146.0	-22	-25.8	21			PS		
27	08:00	1,074.69	0.98	150	148.5	-23	-25.8	21			BC		
28	09:15	1,155.93	0.60	140	139.5	-23	-26.1	20			BC		
29	10:52	1,060.40	1.07	142	142.9	-23	-26.0	21			BC		
30	08:00	980.76	0.67	138	137.1	-23	-26.2	20			BC		
31	07:45	1,010.69	0.62	134	135.3	-23	-26.2	20			BC		

Holly Frontier #1 01/2020

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	101.06	01/08/2020	9.10	01/08/2020	21.7	01/08/2020	01/09/2020		
2	97.74	01/15/2020	8.60	01/15/2020	25.5	01/15/2020	01/17/2020		
3	59.23	01/22/2020	6.10	01/22/2020	16.3	01/22/2020	01/24/2020		
4	101.19	01/29/2020	8.80	01/29/2020	23.1	01/29/2020	02/04/2020		
5									

No monthly injectate samples required.