Facility Well Name Hutch #1 **UIC Permit #** KS-01-155-011 **Month** January **Year** 2019

Submitted 02/04/2019 **Approved** 02/20/2019 **KOLAR Document ID** 1439197

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 54,762

			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	23,877	13.13	129	130	-23.9	-24.9	0
Monthly Maximum	29,619	27.93	136	137	-13.0	-11.8	0
Monthly Minimum	18,929	4.07	120	120	-26.0	-28.4	0
Monthly Total	740,190						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
142.62	118.51	-10.06	-28.47

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	09:18	23,452.38	11.69	120	119.9	-23	-17.3	15		0	JWH		
2	08:30	24,761.90	4.12	123	122.6	-23	-28.0	15		0	CM		
3	14:51	29,619.05	10.45	125	126.9	-26	-27.3	15		0	MP		
4	14:00	23,119.05	20.76	132	130.5	-25	-25.9	15		0	RT		
5	09:00	20,761.90	13.10	121	121.8	-25	-27.4	15		0	CM		
6	08:57	24,595.24	13.67	125	124.5	-25	-27.0	15		0	CM		
7	09:20	26,238.10	22.05	128	125.6	-24	-25.6	15		0	JWH		
8	08:40	24,738.10	10.02	125	122.3	-26	-27.8	15		0	JWH		
9	09:37	23,595.24	4.52	128	124.4	-26	-28.4	15		0	JWH		
10	08:47	21,571.43	7.17	130	131.2	-26	-28.0	15		0	JWH		
11	09:30	24,119.05	4.07	132	132.6	-24	-27.9	15		0	CM		
12	15:07	27,476.19	26.36	130	131.4	-24	-26.4	15		0	RT		
13	14:35	21,380.95	8.81	127	127.7	-24	-28.0	15		0	RT		
14	08:37	18,928.57	12.33	130	130.2	-24	-27.7	15		0	CM		
15	14:50	28,857.14	4.10	136	136.1	-26	-28.0	15		0	CM		
16	14:00	26,476.19	22.17	130	131.7	-24	-25.8	15		0	MP		
17	09:46	19,571.43	16.50	131	131.1	-25	-26.8	15		0	CM		
18	10:20	23,428.57	13.50	130	133.1	-25	-26.9	15		0	CM		
19	12:10	23,642.86	6.93	130	131.1	-24	-11.8	15		0	MP		
20	10:57	22,357.14	12.60	131	132.4	-25	-23.4	15		0	MP		
21	09:00	20,952.38	11.60	128	128.2	-25	-27.4	15		0	RT		
22	08:50	25,619.05	26.86	130	129.8	-13	-12.9	15		0	RT		
23	09:10	22,190.48	4.12	127	128.6	-18	-19.4	15		0	RT		
24	09:30	23,785.71	27.93	131	131.9	-16	-16.1	16		0	RT		
25	08:25	23,357.14	4.83	127	128.6	-24	-16.7	15		0	RT		
26	10:15	23,809.52	11.00	130	132.3	-26	-27.6	15		0	JWH		
27	09:54	22,404.76	14.24	130	131.4	-25	-27.2	15		0	JWH		
28	09:11	23,190.48	14.40	131	132.3	-25	-27.0	15		0	MP		
29	10:50	26,309.52	19.64	132	133.2	-25	-26.4	16		0	MP		
30	15:00	28,190.48	16.00	135	134.7	-24	-27.0	16		0	MP		
31	13:12	21,690.48	11.55	136	137.3	-26	-27.5	15		0	MP		

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Weekly Injectate Samples

Kansas Lab Certificate Number E-60649

Week	**Temperature**		**pH**		**Chloride**				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	58.80	01/07/2019	7.60	01/07/2019	630.0	01/07/2019	01/07/2019		
2	58.10	01/14/2019	7.20	01/14/2019	600.0	01/14/2019	01/14/2019		
3	57.60	01/21/2019	6.90	01/21/2019	540.0	01/21/2019	01/21/2019		
4	57.60	01/28/2019	7.30	01/28/2019	590.0	01/28/2019	01/28/2019		
5									

No monthly injectate samples required.