Facility Well Name Hutch #1 **UIC Permit #** KS-01-155-011 **Month** August **Year** 2020

Submitted 09/08/2020 **Approved** 09/09/2020 **KOLAR Document ID** 1529333

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	26,858	18.69	131	129	-24.1	-25.1	0
Monthly Maximum	35,571	26.50	137	136	-18.0	-16.6	0
Monthly Minimum	20,214	6.74	125	125	-26.0	-27.0	0
Monthly Total	832,595						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
139.19	123.67	-13.36	-27.28

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	07:51	22,261.90	17.90	125	126.3	-24	-27.0	15		0	RLT		
2	09:27	23,714.29	6.74	125	130.2	-24	-25.3	16		0	RLT		
3	08:42	23,285.71	11.95	130	126.5	-25	-26.6	16		0	RT		
4	11:00	27,476.19	16.02	135	130.3	-25	-26.3	16		0	RT		
5	08:32	20,214.29	13.62	128	125.4	-24	-26.2	16		0	JWH		
6	13:23	29,452.38	14.17	136	132.7	-25	-26.4	17		0	JAD		
7	09:45	21,714.29	21.12	130	130.2	-24	-25.2	17		0	MP		
8	10:13	26,619.05	11.45	136	132.8	-26	-26.5	17		0	JWH		
9	09:33	26,380.95	16.17	134	130.2	-25	-26.2	17		0	JWH		
10	08:55	27,547.62	20.83	130	128.3	-24	-25.4	17		0	RLT		
11	08:50	26,785.71	14.29	130	129.1	-25	-26.6	16		0	MP		
12	14:18	29,500.00	19.07	134	133.6	-24	-25.6	17		0	CM		
13	11:02	20,809.52	26.50	135	133.2	-20	-18.6	17		0	CM		
14	08:45	27,976.19	25.69	133	130.1	-23	-24.0	17		0	JWH		
15	08:01	29,714.29	19.55	130	128.9	-24	-24.8	17		0	CM		
16	08:06	30,380.95	25.98	128	126.7	-23	-24.3	16		0	CM		
17	08:15	31,047.62	26.10	130	126.9	-18	-16.6	17		0	JWH		
18	08:27	30,523.81	20.26	130	126.6	-25	-25.7	17		0	JWH		
19	08:36	27,619.05	17.83	128	124.9	-24	-25.9	17		0	JWH		
20	08:48	26,523.81	23.26	130	127.8	-24	-25.1	17		0	RLT		
21	13:57	34,238.10	25.64	130	128.7	-24	-24.9	16		0	CM		
22	09:50	21,119.05	25.71	130	130.4	-24	-24.2	17		0	MP		
23	08:05	23,500.00	15.24	130	129.9	-25	-25.6	17		0	MP		
24	08:55	33,357.14	14.19	130	127.8	-25	-26.0	16		0	CM		
25	13:57	35,571.43	23.50	137	136.4	-25	-24.9	17		0	CM		
26	11:43	26,357.14	20.21	136	134.5	-25	-25.2	17		0	CM		
27	10:17	24,738.10	11.69	130	131.2	-26	-26.5	17		0	RLT		
28	09:15	28,309.52	9.95	130	129.4	-25	-26.5	17		0	MP		
29	09:38	25,928.57	22.29	130	127.8	-24	-25.3	17		0	JWH		
30	08:21	20,928.57	18.26	127	125.7	-24	-25.8	16		0	CM		
31	09:20	29,000.00	24.07	127	126.9	-23	-24.6	17		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	66.60	08/03/2020	7.40	08/03/2020	580.0	08/03/2020	08/03/2020		
2	66.60	08/10/2020	7.10	08/10/2020	540.0	08/10/2020	08/10/2020		
3	77.20	08/17/2020	7.20	08/17/2020	510.0	08/17/2020	08/17/2020		
4	78.10	08/24/2020	7.20	08/24/2020	520.0	08/24/2020	08/24/2020		
5	75.70	08/31/2020	7.10	08/31/2020	600.0	08/31/2020	08/31/2020		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 08/13/2020
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
Calcium	283.000	mg/l
Carbon Tetrachloride	0.009	mg/l
Chloride	454.000	mg/l
Conductivity	3,270.000	Mmhos
Magnesium	52.400	mg/l
Sodium	367.000	mg/l
Sulfate	338.000	mg/l
Total Alkalinity as CaCO3	742.000	mg/l (as CaCO3)
Total Dissolved Solids	2,160.000	mg/l
Total Suspended Solids	ND	mg/l
Trichloroethylene	ND	mg/l