Facility Well Name Hutch #2 **UIC Permit #** KS-01-155-009 **Month** November **Year** 2021

Submitted 12/09/2021 **Approved** 12/28/2021 **KOLAR Document ID** 1602364

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

Barrels per Day Maximum: 54,762

	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Annulus Pressure psig min 60 Gauge psig	Annulus Pressure Cont. Record psig	Injection Pressure Gauge psig	Injection Pressure Cont. Record psig	Amount Added to Seal Pot
Monthly Average	14,242	8.48	123	121	-25.9	-27.0	0
Monthly Maximum	23,357	19.21	130	130	-24.0	-25.8	0
Monthly Minimum	3,690	0.00	115	114	-28.0	-27.6	0
Monthly Total	427,262						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
140.11	113.62	1.76	-28.39

Comments:

Well shut down approximately 24 hours 11/15 to 11/16 for static level test on 11/16.

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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	14:20	12,714.29	10.45	120	118.3	-25	-27.1	15		0	RT		
2	08:50	11,285.71	19.21	120	116.9	-24	-26.2	15		0	JWH		
3	08:22	15,309.52	12.43	120	116.7	-24	-27.1	15		0	CM		
4	13:13	17,238.10	13.26	122	121.1	-26	-26.6	15		0	CM		
5	10:35	13,047.62	11.29	120	118.2	-25	-27.2	15		0	MP		
6	08:45	14,238.10	13.24	120	116.7	-24	-26.5	15		0	RLT		
7	08:55	15,023.81	13.00	120	120.4	-26	-26.5	15		0	RLT		
8	10:59	20,357.14	18.90	129	126.1	-24	-25.9	15		0	CM		
9	09:17	15,238.10	1.40	125	120.9	-27	-27.4	15		0	JWH		
10	10:04	13,452.38	11.31	125	121.3	-26	-26.6	15		0	CM		
11	09:50	11,523.81	1.50	125	120.0	-27	-27.3	15		0	RLT		
12	08:15	13,166.67	0.02	119	116.5	-25	-27.2	15		0	MP		
13	12:40	12,976.19	0.00	130	125.9	-27	-27.2	15		0	RT		
14	12:55	12,476.19	3.14	130	128.6	-28	-27.5	15		0	RT		
15	07:58	11,619.05	12.26	122	119.9	-25	-26.7	15		0	RLT		
16	14:39	3,690.48	10.98	130	130.0	-28	-26.3	15		0	CM		
17	13:53	21,952.38	12.00	127	124.8	-26	-26.5	15		0	RLT		
18	13:50	16,095.24	11.67	130	127.4	-28	-27.3	15		0	RLT		
19	13:27	15,785.71	14.14	125	122.6	-26	-26.8	15		0	RLT		
20	08:20	23,357.14	0.60	118	115.6	-25	-27.1	15		0	JWH		
21	08:50	14,428.57	1.90	122	118.2	-27	-27.5	15		0	JWH		
22	11:00	14,642.86	5.93	122	122.5	-28	-27.5	15		0	JAD		
23	13:20	15,833.33	18.12	130	128.4	-28	-25.8	15		0	CM		
24	14:40	18,880.95	12.43	125	123.2	-27	-26.7	15		0	MP		
25	07:07	10,047.62	6.12	118	114.9	-24	-27.6	15		0	JWH		
26	08:58	10,428.57	0.00	120	116.5	-26	-27.3	14		0	CM		
27	08:02	9,166.67	0.21	119	116.5	-25	-27.1	15		0	CM		
28	08:02	14,785.71	5.90	115	114.0	-25	-27.5	14		0	CM		
29	08:45	14,357.14	8.76	120	115.8	-26	-27.2	15		0	JWH		
30	09:23	14,142.86	4.29	122	118.1	-26	-27.3	15		0	JWH		
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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	61.00	11/01/2021	7.70	11/01/2021	620.0	11/01/2021	11/01/2021		
2	61.70	11/09/2021	7.70	11/09/2021	610.0	11/09/2021	11/09/2021		
3	60.80	11/18/2021	7.80	11/18/2021	590.0	11/18/2021	11/18/2021		
4	59.50	11/23/2021	7.60	11/23/2021	550.0	11/23/2021	11/23/2021		
5	59.50	11/30/2021	7.70	11/30/2021	620.0	11/30/2021	11/30/2021		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 11/01/2021
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	292.000	mg/l
Carbon Tetrachloride	0.016	mg/l
Chloride	620.000	mg/l
Conductivity	3,800.000	Mmhos
Magnesium	46.400	mg/l
Sodium	542.000	mg/l
Sulfate	386.000	mg/l
Total Alkalinity as CaCO3	742.000	mg/l
Total Dissolved Solids	2,010.000	mg/l
Total Suspended Solids	ND	mg/l
Trichloroethylene	ND	mg/l