Facility Well Name Evonik #1 **UIC Permit #** KS-01-173-002 **Month** December **Year** 2022

Submitted 01/25/2023 **Approved** 01/30/2023 **KOLAR Document ID** 1683098

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 12,690

			Annulus Pressure psig min 100		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	1,161	0.80	165	157	-1.9	-1.9	
Monthly Maximum	1,564	1.19	166	161	3.0	3.3	
Monthly Minimum	477	0.00	162	152	-8.0	-7.9	
Monthly Total	35,998						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
165.46	149.90	3.33	-9.80

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	11:01	1,380.71	0.86	164	156.0	-3	-3.0	42			RI		
2	09:18	1,232.40	0.86	166	158.2	-3	-3.2	39			BE		
3	08:00	1,076.86	0.83	164	156.2	-3	-2.9	40			CD		
4	09:00	1,334.12	0.86	164	156.2	-3	-3.1	40			CD		
5	08:15	1,112.83	0.81	166	155.5	-2	-2.6	40			BE		
6	09:00	1,215.00	0.71	166	154.8	-3	-3.2	39			BE		
7	08:15	793.31	1.19	166	155.1	3	3.3	39			BE		
8	09:15	1,564.05	0.86	166	159.7	0	0.3	40			BE		
9	09:10	1,050.71	0.71	162	158.2	-1	-1.3	41			CS		
10	01:35	1,357.62	0.74	165	160.2	0	-0.7	41			ZB		
11	10:28	967.50	0.79	165	154.4	0	0.1	40			ZB		
12	08:22	1,021.14	0.86	166	155.4	-3	-2.7	40			BE		
13	09:28	1,354.00	1.14	166	152.2	-1	-1.1	39			BE		
14	08:22	1,320.67	0.86	166	156.2	-1	-1.6	40			BE		
15	08:06	477.12	0.00	166	155.6	-8	-7.9	39			BE		
16	08:26	1,498.24	0.86	166	157.3	2	1.6	39			BE		
17	05:30	1,185.71	0.98	166	157.3	0	-0.9	39			CD		
18	08:30	1,398.36	0.69	166	157.2	-1	-1.8	39			CD		
19	08:48	987.52	0.74	166	156.0	-2	-2.2	41			BE		
20	08:09	1,152.86	0.86	166	156.0	-3	-2.5	41			BE		
21	10:02	1,312.12	0.90	166	158.4	-3	-3.3	40			CS		
22	07:50	1,124.14	0.95	166	159.1	-4	-2.5	44			BE		
23	11:00	1,392.05	0.81	165	160.4	-1	-1.9	41			CD		
24	07:20	889.00	0.67	164	159.3	-2	-0.5	41			CS		
25	07:30	1,003.57	0.69	164	157.5	-2	-1.9	40			JB		
26	08:10	1,028.86	0.69	163	156.8	-2	-1.6	40			CS		
27	09:52	1,166.76	0.88	166	155.4	-3	-3.2	39			BE		
28	06:40	966.93	0.76	164	159.8	-2	-2.5	40			CS		
29	09:00	1,258.07	0.79	166	161.0	-2	-2.0	40			CS		
30	10:00	1,209.38	0.79	166	155.6	-3	-3.0	40			RI		
31	08:00	1,166.36	0.81	166	156.4	-2	-2.5	40			AG		

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Weekly Injectate Samples

Kansas Lab Certificate Number E-92301

Week	Temperature		pH		Chloride				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	75.60	12/02/2022	11.06	12/02/2022					
2	77.10	12/06/2022	11.23	12/06/2022					
3	70.00	12/14/2022	11.48	12/14/2022					
4	74.60	12/21/2022	11.57	12/21/2022					
5	74.40	12/27/2022	11.20	12/27/2022					

Monthly Injectate Samples

Date Sample Collected 12/07/2022

Kansas Lab Certificate Number 10116

Constituent	Value	Units
Acetone	0.000	mg/l
Acrylonitrile	0.000	mg/l
Benzene	0.020	mg/l
Chloride	326.000	mg/l
Nickel	0.012	mg/l

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 10/11/2022
Kansas Lab Certificate Number E-10378
Lab Name Meridian Analytical

These samples shall be representative of injection activity and shall therefore be collected on days of injection.

Constituent	Value	Units
3 (N,N-Dimethylamino Propionitrile)	0.508	mg/l
Aniline	0.000	mg/l
Cyclohexylamine	1.360	mg/l
Dicyclohexylamine	5.880	mg/l
N (3 Aminopropyl) Cyclohexylamine	0.000	mg/l
N,N-Dimethylcyclohexylamine	10.900	mg/l
N-Methyldicyclohexylamine	95.700	mg/l
O-Toluidine	0.000	mg/l
Pentamethyldipropylene-triamine	0.000	mg/l
Sulfate	54.700	mg/l