Facility Well Name Evonik #1 **UIC Permit #** KS-01-173-002 **Month** June **Year** 2019

Submitted 08/16/2019 **Approved** 09/01/2019 **KOLAR Document ID** 1466623

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 29

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	2,182	1.56	161	154	-2.9	-2.8	
Monthly Maximum	3,730	2.40	170	162	5.0	4.9	
Monthly Minimum	0	0.00	153	146	-13.0	-12.7	
Monthly Total	65,461						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
170.32	146.34	5.66	-12.97

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	08:40	2,287.62	1.55	169	160.3	1	1.7	35			JN		
2	06:25	2,100.95	1.81	164	155.9	2	1.7	37			JN		
3	07:48	2,228.38	0.00	164	157.0	0	0.8	39			BE		
4	07:18	0.00	0.00	162	153.4	0	0.4	39			BE		
5	07:43	1,620.43	1.55	162	153.4	2	1.7	39			BE		
6	07:10	2,204.00	1.74	158	150.9	3	3.6	39			BE		
7	07:30	2,560.67	1.71	158	151.0	4	4.9	39			BE		
8	07:00	2,078.21	1.29	162	157.2	1	1.2	39			MR		
9	13:00	2,706.67	1.86	153	150.5	5	4.8	39			MR		
10	07:34	1,844.95	1.43	158	150.3	1	0.6	39			BE		
11	07:10	1,800.45	1.45	158	150.8	1	1.3	39			BE		
12	07:10	1,913.33	1.38	158	157.2	1	1.8	39			RI		
13	07:22	2,641.76	2.38	158	152.1	-5	-4.6	39			BE		
14	07:42	2,600.43	0.19	160	152.6	-12	-11.9	39			BE		
15	11:30	2,616.43	2.05	158	152.2	-5	-4.9	39			BP		
16	08:40	2,092.60	2.17	158	148.8	-4	-4.5	39			BP		
17	07:46	2,393.24	1.88	160	152.6	-4	-4.2	39			BE		
18	07:52	1,998.55	1.81	162	154.0	-4	-4.1	39			BE		
19	07:25	2,497.83	2.26	156	149.5	-7	-7.9	39			BE		
20	07:32	1,931.86	2.12	160	152.4	-5	-5.0	39			BE		
21	07:34	1,885.67	2.02	164	156.2	-5	-5.0	39			BE		
22	07:00	1,688.29	2.00	164	155.8	-5	-4.9	39			SB		
23	10:11	2,985.48	2.31	155	146.2	-6	-5.6	39			SB		
24	00:43	2,762.24	2.40	156	149.3	-5	-4.8	39			BE		
25	07:28	2,381.74	0.00	162	153.8	-13	-12.7	39			BE		
26	08:34	2,139.48	0.00	166	152.6	-12	-12.4	39			BE		
27	07:45	3,730.00	1.93	164	156.3	-4	-4.6	39			BE		
28	07:17	1,526.05	1.90	165	156.6	-4	-4.0	39			BE		
29	08:12	2,138.10	1.86	170	154.2	-5	-3.7	39			SB		
30	08:01	2,105.64	1.62	170	162.3	-2	-2.7	39			SB		
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Weekly Injectate Samples

Kansas Lab Certificate Number 2301

Week	Temperature		pH		Chloride				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	84.38	06/03/2019	10.54	06/03/2019					
2	89.60	06/11/2019	10.79	06/11/2019					
3	76.28	06/19/2019	9.99	06/19/2019					
4	77.36	06/26/2019	6.62	06/26/2019					
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Monthly Injectate Samples

Date Sample Collected 06/05/2019

Kansas Lab Certificate Number 10116

Constituent	Value	Units
Acrylonitrile	0.000	mg/l
Benzene	0.001	mg/l
Chloride	49.600	mg/l
Nickel	0.009	mg/l
Toluene	0.001	mg/l

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 06/03/2019
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)		mg/l
Aniline	0.000	mg/l
Cyclohexylamine	1.280	mg/l
Dicyclohexylamine		mg/l
N (3 Aminopropyl) Cyclohexylamine	10.100	mg/l
N,N-Dimethylcyclohexylamine	50.700	mg/l
N-Methyldicyclohexylamine		mg/l
O-Toluidine	0.000	mg/l
Pentamethyldipropylene-triamine		mg/l
Sulfate	3.400	mg/l