Facility Well Name Evonik #1 **UIC Permit #** KS-01-173-002 **Month** March **Year** 2020

Submitted 04/08/2020 **Approved** 04/08/2020 **KOLAR Document ID** 1512325

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	1,948	1.37	163	159	-1.6	-1.8	
Monthly Maximum	2,442	1.81	170	167	1.0	2.3	
Monthly Minimum	1,377	0.00	156	150	-12.0	-12.6	
Monthly Total	60,396						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
170.70	148.91	5.54	-12.97

Comments:

Evonik #1 03/2020

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	07:00	2,442.10	1.79	162	162.9	1	2.3	39			CS		
2	07:26	2,387.10	1.62	166	160.8	-1	-1.4	39			BE		
3	07:53	1,986.71	1.33	166	160.1	-2	-1.6	39			BE		
4	07:12	1,820.43	1.26	168	162.2	-1	-1.3	39			BE		
5	07:11	1,748.24	1.21	168	161.0	-1	-1.2	39			BE		
6	07:19	1,376.95	0.00	162	157.0	-12	-12.6	39			BE		
7	06:00	1,508.93	1.26	162	159.6	0	-1.1	39			BP		
8	07:46	1,679.50	1.24	162	159.6	0	-0.9	39			BP		
9	07:43	1,897.60	1.60	160	152.7	-2	-2.4	39			BE		
10	07:57	2,048.38	1.38	160	154.9	-2	-1.7	39			BE		
11	07:25	1,973.55	1.38	164	155.9	-1	-1.7	39			BE		
12	07:50	1,971.29	1.29	166	159.2	-1	-1.2	39			BE		
13	05:50	1,749.83	1.29	160	156.4	-1	-1.2	39			RI		
14	06:40	2,144.29	1.69	160	150.9	-2	-2.7	39			CS		
15	06:05	2,064.29	1.45	161	155.9	-2	-1.7	39			CS		
16	07:25	2,215.31	1.36	166	158.2	-2	-1.4	39			BE		
17	05:30	1,764.64	1.29	170	160.8	0	-0.6	39			RI		
18	07:33	2,104.57	1.57	162	157.2	-1	-1.1	39			BE		
19	05:35	1,608.36	1.21	170	167.4	0	-0.6	39			RI		
20	05:40	2,009.81	1.48	165	157.1	-1	-1.7	39			RI		
21	09:30	2,320.12	1.45	160	154.0	-1	-1.5	39			CS		
22	09:45	2,124.60	1.62	160	155.6	-2	-1.9	38			JN		
23	08:04	1,863.02	1.57	164	158.0	-4	-3.7	39			BE		
24	07:53	2,064.24	1.81	156	149.7	-3	-2.7	39			BE		
25	07:34	2,099.50	1.29	166	161.4	-1	-1.2	39			BE		
26	08:18	2,001.17	1.52	166	163.0	-2	-2.4	39			BE		
27	07:26	1,958.64	1.45	162	164.4	-2	-2.0	39			BE		
28	09:40	1,992.90	1.26	160	162.6	-1	-1.7	39			DF		
29	10:00	1,873.12	1.26	160	160.2	-1	-1.1	40			DF		
30	07:49	1,656.62	1.26	164	159.4	-1	-1.2	39			BE		
31	07:50	1,940.02	1.36	160	156.4	-1	-1.0	39			RI		

Evonik #1 03/2020

Weekly Injectate Samples

Kansas Lab Certificate Number 92301

Week	Temperature		pH		Chloride				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	87.44	03/03/2020	10.15	03/03/2020					
2	88.70	03/11/2020	10.46	03/11/2020					
3	85.64	03/19/2020	10.33	03/19/2020					
4	87.80	03/23/2020	10.18	03/23/2020					
5									

Monthly Injectate Samples

Date Sample Collected 03/04/2020

Kansas Lab Certificate Number 10116

Constituent	Value	Units
Acrylonitrile	0.000	mg/l
Benzene	0.000	mg/l
Chloride	7.300	mg/l
Nickel	0.007	mg/l
Toluene	0.000	mg/l

Evonik #1 03/2020

Quarterly Injectate Samples

Quarter 1
Date Sample Collected 03/03/2020
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)	0.000	mg/l
Aniline	0.000	mg/l
Cyclohexylamine	7.620	mg/l
Dicyclohexylamine	0.300	mg/l
N,N-Dimethylcyclohexylamine	98.200	mg/l
N-Methyldicyclohexylamine	11.600	mg/l
O-Toluidine	0.000	mg/l
Pentamethyldipropylene-triamine	0.340	mg/l
Sulfate	10.400	mg/l