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

Submitted 10/25/2019 **Approved** 10/28/2019 **KOLAR Document ID** 1476979

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

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	1,240	0.80	162	155	-3.6	-3.7	
Monthly Maximum	2,212	1.52	172	163	2.0	2.0	
Monthly Minimum	0	0.00	155	148	-12.0	-12.3	
Monthly Total	37,189						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
169.92	145.91	3.06	-12.63

Comments:

Evonik #1 09/2019

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	11:00	1,764.74	1.10	170	161.6	0	-0.5	41			SB		
2	07:30	1,340.36	1.21	169	159.9	0	-0.5	41			SB		
3	08:01	1,625.93	1.26	166	159.5	-1	-1.4	41			BE		
4	07:24	1,452.48	1.07	172	163.3	0	0.4	42			BE		
5	13:30	1,601.67	1.48	170	161.5	2	2.0	41			TB		
6	10:45	1,333.50	1.21	168	160.1	-1	-1.1	41			JN		
7	06:30	1,431.14	1.12	166	160.8	-1	-0.4	41			SB		
8	07:35	1,838.21	1.26	165	157.7	0	-0.4	41			SB		
9	07:38	1,544.50	1.10	168	160.0	0	0.1	42			BE		
10	07:17	1,690.43	1.26	165	157.3	0	-0.6	41			BE		
11	07:05	1,641.62	1.14	164	157.3	0	0.1	41			BE		
12	07:28	1,617.71	1.12	166	156.8	0	0.0	41			BE		
13	07:37	2,211.67	0.00	156	149.4	-10	-9.9	39			BE		
14	06:50	1,934.69	1.19	155	153.7	0	-0.5	39			ZW		
15	05:45	1,692.48	1.19	155	155.3	0	-0.3	39			ZW		
16	12:49	2,165.60	1.24	166	158.7	-1	-0.9	41			BE		
17	07:52	1,312.24	1.21	164	156.3	0	-0.4	41			BE		
18	08:27	1,965.81	0.00	160	152.3	-2	-1.9	40			BE		
19	08:26	1,882.93	1.50	157	149.3	-2	-2.5	39			BE		
20	07:25	1,671.71	1.52	156	148.4	-2	-2.4	39			BE		
21	07:40	1,716.90	1.52	157	149.0	-2	-2.3	39			GE		
22	08:30	242.86	0.00	156	148.0	-2	-2.1	39			DV		
23	10:54	111.07	0.00	158	150.6	-11	-11.5	39			BE		
24	07:40	0.29	0.00	158	150.4	-11	-11.3	39			AH		
25	06:00	116.83	0.00	155	148.0	-12	-11.6	39			AH		
26	09:35	300.36	0.00	156	148.7	-12	-12.3	39			AH		
27	08:15	220.69	0.17	157	149.5	-11	-11.0	39			AH		
28	16:20	574.69	0.17	158	150.8	-11	-11.6	39			AH		
29	06:20	125.52	0.07	156	150.3	-10	-9.8	39			BE		
30	07:27	60.29	0.00	160	151.5	-7	-6.5	39			BE		
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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	94.82	09/04/2019	10.86	09/04/2019					
2	74.30	09/11/2019	6.61	09/11/2019					
3	97.88	09/17/2019	10.41	09/17/2019					
4	77.18	09/24/2019	10.84	09/24/2019					
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Monthly Injectate Samples

Date Sample Collected 09/04/2019

Kansas Lab Certificate Number 10116

Constituent	Value	Units
Acrylonitrile	0.000	mg/l
Benzene	0.000	mg/l
Chloride	18.700	mg/l
Nickel	0.018	mg/l
Toluene	0.000	mg/l

Quarterly Injectate Samples

Quarter 3
Date Sample Collected 09/04/2019
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)	0.000	mg/l
Aniline	0.000	mg/l
Cyclohexylamine	0.000	mg/l
Dicyclohexylamine	0.000	mg/l
N (3 Aminopropyl) Cyclohexylamine	0.000	mg/l
N,N-Dimethylcyclohexylamine	0.000	mg/l
N-Methyldicyclohexylamine	0.000	mg/l
Pentamethyldipropylene-triamine	0.000	mg/l
Sulfate	52.800	mg/l