Facility Well Name Evonik #3 **UIC Permit #** KS-01-173-001 **Month** September **Year** 2019

Submitted 10/25/2019 **Approved** 10/28/2019 **KOLAR Document ID** 1476980

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	770	0.55	170	163	-9.1	-9.5	
Monthly Maximum	2,247	2.07	180	175	4.0	2.5	
Monthly Minimum	0	0.00	150	152	-14.0	-14.2	
Monthly Total	23,098						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
195.76	139.52	10.59	-14.25

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	11:15	737.33	0.00	180	173.6	-13	-13.0	29			SB		
2	07:40	639.33	0.00	169	159.4	-13	-13.5	30			SB		
3	08:05	1,016.86	1.60	170	167.9	3	2.1	34			BE		
4	07:31	1,118.57	0.00	170	163.7	-13	-13.4	31			BE		
5	13:45	914.19	1.69	175	174.8	3	2.5	32			TB		
6	10:50	652.95	0.00	170	164.2	-13	-13.4	31			JN		
7	06:30	720.29	1.62	170	167.4	-13	-13.2	31			SB		
8	07:30	916.38	0.00	170	162.7	-13	-13.3	28			SB		
9	08:18	811.43	1.57	180	173.2	2	1.9	35			BE		
10	07:25	769.52	0.00	170	161.3	-13	-13.6	25			BE		
11	07:10	670.29	1.76	170	155.3	2	1.9	27			BE		
12	07:35	866.57	0.00	160	152.5	-13	-13.4	29			BE		
13	07:57	2,059.81	1.81	180	173.8	3	2.5	24			BE		
14	06:43	1,067.90	0.00	150	154.2	-13	-13.1	27			ZW		
15	06:00	739.05	1.76	171	169.3	1	2.3	27			ZW		
16	13:53	283.90	0.00	175	169.1	-13	-13.5	18			BE		
17	07:57	85.33	0.00	165	157.6	-14	-14.0	15			BE		
18	08:45	723.14	0.00	175	167.4	-13	-13.6	18			BE		
19	08:31	260.00	0.00	168	161.2	-13	-13.9	14			BE		
20	07:28	0.00	0.00	170	160.6	-14	-14.1	14			BE		
21	07:44	59.81	0.00	170	160.8	-14	-14.2	10			GE		
22	08:00	1,577.43	2.07	170	160.7	-14	-13.0	6			DV		
23	11:00	1,186.38	0.00	168	160.0	-14	-14.1	3			BE		
24	07:40	413.24	0.00	176	169.9	-13	-14.0	6			AH		
25	06:00	457.81	0.00	166	159.4	-13	-13.9	5			AH		
26	09:35	275.81	0.00	170	162.1	-14	-14.1	6			AH		
27	08:15	280.76	0.00	170	163.3	-13	-13.9	5			AH		
28	16:20	538.19	0.62	160	153.7	4	1.2	3			AH		
29	06:30	1,007.81	0.00	165	152.4	-14	-14.1	3			BE		
30	07:38	2,247.43	2.00	165	158.2	2	2.3	3			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

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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