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

Submitted 12/08/2020 **Approved** 12/16/2020 **KOLAR Document ID** 1538589

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 28

Barrels per Day Maximum: 12,690

	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Annulus Pressure psig min 100 Gauge psig	Annulus Pressure Cont. Record psig	Injection Pressure Gauge psig	Injection Pressure Cont. Record psig	Amount Added to Seal Pot
Monthly Average	1,698	1.15	165	159	-2.0	-2.2	
Monthly Maximum	2,281	1.71	174	165	1.0	1.8	
Monthly Minimum	0	0.00	158	129	-10.0	-10.6	
Monthly Total	50,943						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
172.36	149.04	4.18	-10.68

Comments:

Fall off test conducted on 11-16-2020

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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	12:15	1,667.81	1.24	167	129.4	-2	-1.5	42			RI		
2	07:53	2,123.55	1.31	167	160.4	-2	-1.6	39			RI		
3	07:53	1,907.00	1.26	169	163.1	-1	-1.3	40			AHG		
4	07:38	1,686.48	1.29	174	165.4	-1	-1.2	41			AHG		
5	07:53	1,208.05	0.00	168	161.4	-9	-8.7	39			RI		
6	05:35	1,831.64	1.38	165	163.2	-1	-1.3	39			BE		
7	07:55	2,024.52	1.36	170	165.4	-2	1.8	40			BE		
8	07:52	1,820.24	1.26	170	163.9	-1	-1.0	40			RI		
9	06:10	1,784.90	1.48	170	160.6	-2	-1.9	42			BE		
10	06:10	1,914.98	1.64	160	153.8	-2	-2.6	42			CD		
11	05:43	2,066.69	1.48	160	155.3	-2	-2.5	42			CD		
12	11:45	2,280.95	1.17	170	163.2	-2	-2.2	41			BE		
13	08:10	1,632.02	1.43	160	155.5	-2	-2.7	38			BE		
14	07:40	1,830.62	1.31	168	162.0	-1	-1.6	38			BE		
15	08:25	1,878.19	1.29	168	160.9	-1	-1.1	38			BE		
16	08:21	1,896.90	0.00	164	157.9	-10	-10.6	39			BE		
17	07:58	0.00	0.00	162	155.8	-9	-9.2	39			JN		
18	06:50	1,117.14	1.71	164	156.6	-1	-2.3	39			JN		
19	07:00	0.00	0.00	163	163.5	-2	-2.0	39			BE		
20	07:43	1,486.48	1.26	170	162.8	-1	-1.0	40			BE		
21	06:40	1,895.60	1.19	170	162.9	-1	-1.0	39			BE		
22	06:05	1,857.00	1.17	170	162.0	-1	-1.3	39			BE		
23	08:05	1,999.95	1.55	162	155.4	1	1.5	40			BE		
24	08:23	1,994.00	1.26	166	158.4	0	-0.7	40			CD		
25	07:45	2,030.52	1.36	160	153.0	-1	-1.4	39			BA		
26	08:31	1,954.00	1.19	165	155.9	-1	-1.0	39			BE		
27	10:00	1,872.93	1.26	162	160.7	-1	-1.5	38			BE		
28	07:30	1,588.10	1.19	161	158.3	-1	-1.7	38			BE		
29	07:00	1,808.69	1.19	161	155.2	-1	-1.6	38			BE		
30	08:17	1,784.24	1.36	158	155.4	-1	-1.3	39			BE		
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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	98.20	11/04/2020	10.27	11/04/2020					
2	84.60	11/10/2020	10.37	11/10/2020					
3	61.10	11/17/2020	10.83	11/17/2020					
4	82.90	11/24/2020	10.70	11/24/2020					
5									

Monthly Injectate Samples

Date Sample Collected 11/04/2020

Kansas Lab Certificate Number 10116

Constituent	Value	Units
Acetone	0.000	mg/l
Acrylonitrile	0.000	mg/l
Benzene	0.000	mg/l
Chloride	15.100	mg/l
Nickel	0.028	mg/l

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 11/03/2020
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)	9.500	mg/l
Aniline	0.000	mg/l
Cyclohexylamine	1.740	mg/l
Dicyclohexylamine	1.410	mg/l
N,N-Dimethylcyclohexylamine	149.000	mg/l
N-Methyldicyclohexylamine	35.800	mg/l
O-Toluidine	0.000	mg/l
Pentamethyldipropylene-triamine	19.100	mg/l
Sulfate	12.900	mg/l