Facility Well Name Koch Fertilizer #3 **UIC Permit #** KS-01-057-002 **Month** December **Year** 2021

Submitted 01/27/2022 **Approved** 01/28/2022 **KOLAR Document ID** 1614221

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 18

Barrels per Day Maximum: 20,143

			Annulus Pressure psig min 60		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	4,843	3.84	157	156	-24.3	-22.3	0
Monthly Maximum	13,987	11.81	166	164	-14.0	-10.9	0
Monthly Minimum	0	0.00	149	149	-25.0	-23.8	0
Monthly Total	150,128						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
165.60	147.00	0.40	-25.00

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	11:10	0.00	0.00	158	156.0	-25	-22.9	17		0	CS		
2	11:00	491.69	0.00	157	156.0	-25	-23.6	17		0	CS		
3	08:53	0.00	0.00	158	157.0	-25	-23.7	19		0	PH		
4	09:00	0.00	0.00	158	156.0	-25	-23.8	18		0	JB		
5	10:00	0.00	0.00	158	156.0	-25	-23.5	19		0	JB		
6	09:15	0.00	11.81	156	154.0	-25	-21.0	18		0	PH		
7	08:27	13,987.00	8.79	153	151.0	-24	-21.1	18		0	NH		
8	08:48	13,280.88	9.69	152	150.0	-24	-21.0	18		0	NH		
9	10:24	13,166.55	9.33	153	151.0	-24	-20.7	18		0	NH		
10	09:53	10,601.14	11.57	152	150.0	-14	-10.9	18		0	NH		
11	09:30	13,724.71	8.98	149	149.0	-24	-21.5	18		0	CS		
12	10:00	13,302.69	8.93	151	150.0	-24	-21.5	17		0	CS		
13	09:50	2,551.95	0.00	156	155.0	-25	-23.3	18		0	CS		
14	10:55	0.00	0.00	157	156.0	-25	-23.3	19		0	CS		
15	08:53	6,653.62	8.55	155	154.0	-25	-22.8	19		0	LB		
16	13:45	3,781.76	0.00	150	149.0	-24	-23.3	17		0	CS		
17	15:35	492.19	0.00	157	156.0	-25	-23.3	17		0	LB		
18	10:23	492.19	0.00	150	149.0	-25	-22.3	17		0	LB		
19	08:30	4,102.45	0.00	156	155.0	-25	-23.6	18		0	JB		
20	08:40	0.00	0.00	158	157.0	-25	-23.6	18		0	JB		
21	08:50	0.00	0.00	158	156.0	-25	-23.4	19		0	JB		
22	08:40	0.00	0.00	157	156.0	-25	-23.4	17		0	JB		
23	08:52	0.00	0.00	165	164.0	-25	-23.6	19		0	NH		
24	08:25	0.00	0.00	166	164.0	-25	-23.2	19		0	NH		
25	10:53	0.00	0.00	165	163.0	-25	-23.6	19		0	NH		
26	08:56	0.00	0.00	165	163.0	-25	-23.5	19		0	NH		
27	10:35	8,205.76	7.69	159	158.0	-25	-22.9	15		0	CS		
28	10:15	10,901.86	7.98	159	158.0	-24	-22.1	15		0	CS		
29	10:30	11,274.55	8.07	160	159.0	-24	-22.3	14		0	CS		
30	10:25	11,074.43	9.88	161	160.0	-24	-21.9	14		0	CS		
31	10:10	12,042.86	7.69	160	162.0	-24	-21.6	14		0	LB		

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Weekly Injectate Samples

Kansas Lab Certificate Number E-10116

Week	Temperature		pH		Chloride			Nitrate	Orthophosphate
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed	mg/l	mg/l
1	89.10	12/06/2021	7.96	12/06/2021	211.0	12/06/2021	12/09/2021	52.80000	0.66000
2	92.40	12/13/2021	6.95	12/13/2021	246.0	12/13/2021	12/15/2021	57.00000	1.10000
3	87.80	12/20/2021	7.16	12/20/2021	362.0	12/20/2021	12/22/2021	73.60000	1.60000
4	77.00	12/27/2021	7.11	12/27/2021	308.0	12/27/2021	01/04/2022	60.50000	1.10000
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Monthly Injectate Samples

Date Sample Collected 12/06/2021

Kansas Lab Certificate Number 10116

Constituent	Value	Units
Chromium	0.0446	mg/l

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 10/04/2021
Kansas Lab Certificate Number E-10116
Lab Name Pace Analytical-Lenexa

These samples shall be representative of injection activity and shall therefore be collected on days of injection.

Constituent	Value	Units
Calcium	271.000	mg/l
Conductivity	4,870.000	Mmhos
Iron	0.125	mg/l
Magnesium	82.900	mg/l
Sodium	890.000	mg/l
Specific Gravity	1.000	N/A
Sulfate	1,980.000	mg/l
Total Alkalinity as CaCO3	263.000	mg/l
Total Dissolved Solids	4,270.000	mg/l
Total Hardness as CaCO3	1,020.000	mg/l
Zinc	0.726	mg/l