Facility Well Name Koch Fertilizer #3 **UIC Permit #** KS-01-057-002 **Month** February **Year** 2022

Submitted 03/28/2022 **Approved** 03/31/2022 **KOLAR Document ID** 1636425

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	6,254	3.98	172	170	-24.7	-23.5	0
Monthly Maximum	13,175	11.90	191	190	-15.0	-14.2	0
Monthly Minimum	0	0.00	157	155	-26.0	-25.7	0
Monthly Total	175,125						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
191.00	155.00	-1.10	-26.00

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	10:20	12,275.29	7.07	157	155.0	-25	-24.6	14		0	LB		
2	09:00	10,132.52	11.90	157	156.0	-15	-14.2	13		0	LB		
3	09:40	11,366.69	7.24	160	159.0	-25	-22.7	13		0	LB		
4	10:20	11,181.60	7.86	159	158.0	-26	-23.0	13		0	LB		
5	10:00	11,247.33	7.07	167	165.0	-25	-23.0	13		0	JB		
6	09:20	10,361.79	8.86	166	165.0	-25	-22.0	12		0	JB		
7	11:50	10,850.33	0.00	172	169.0	-25	-25.4	14		0	JB		
8	11:20	305.60	0.00	184	182.0	-25	-25.3	16		0	JB		
9	08:20	0.00	0.00	188	186.0	-25	-25.3	16		0	NH		
10	09:49	0.00	0.00	190	188.0	-25	-25.4	17		0	NH		
11	09:25	0.00	0.00	191	190.0	-26	-25.4	17		0	NH		
12	09:10	0.00	0.00	190	189.0	-25	-25.7	17		0	NH		
13	10:55	0.00	0.00	191	190.0	-25	-25.6	18		0	CS		
14	10:05	11,420.62	6.90	166	165.0	-25	-22.7	13		0	CS		
15	11:20	9,885.00	8.21	167	165.0	-25	-22.2	13		0	CS		
16	10:10	11,699.62	7.79	168	166.0	-25	-21.9	14		0	CS		
17	10:10	11,622.31	7.71	160	159.0	-25	-22.9	13		0	LB		
18	09:40	11,468.93	8.02	160	158.0	-25	-21.9	13		0	LB		
19	10:25	12,045.67	7.88	167	166.0	-25	-21.7	14		0	LB		
20	09:55	12,679.93	0.00	166	164.0	-25	-23.1	14		0	LB		
21	10:15	13,175.38	8.05	164	162.0	-25	-21.6	13		0	JB		
22	10:30	3,271.10	0.00	171	170.0	-25	-24.3	16		0	JB		
23	11:15	135.69	0.00	171	169.0	-25	-24.7	17		0	JB		
24	14:30	0.00	0.00	177	173.0	-25	-24.4	17		0	JB		
25	09:23	0.00	0.00	179	177.0	-25	-24.7	17		0	NH		
26	10:33	0.00	0.00	182	180.0	-25	-24.7	17		0	NH		
27	09:25	0.00	0.00	182	180.0	-25	-25.3	17		0	NH		
28	09:13	0.00	7.00	161	160.0	-25	-25.1	14		0	NH		
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30													
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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	73.10	02/07/2022	8.62	02/07/2022	285.0	02/07/2022	02/11/2022	57.00000	1.00000
2	71.00	02/14/2022	6.98	02/14/2022	263.0	02/14/2022	02/18/2022	54.40000	0.89000
3	73.30	02/21/2022	6.72	02/21/2022	251.0	02/21/2022	02/23/2022	67.70000	1.10000
4	72.50	02/28/2022	6.99	02/28/2022	294.0	02/28/2022	03/05/2022	59.90000	1.00000
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Monthly Injectate Samples

Date Sample Collected 02/07/2022

Kansas Lab Certificate Number 10116

Constituent	Value	Units
Chromium	0.0615	mg/l

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 01/03/2022
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	357.000	mg/l
Conductivity	4,700.000	Mmhos
Iron	0.115	mg/l
Magnesium	108.000	mg/l
Sodium	871.000	mg/l
Specific Gravity	1.010	N/A
Sulfate	1,610.000	mg/l
Total Alkalinity as CaCO3	366.000	mg/l
Total Dissolved Solids	3,780.000	mg/l
Total Hardness as CaCO3	1,340.000	mg/l
Zinc	0.729	mg/l