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

Submitted 09/28/2022 **Approved** 09/29/2022 **KOLAR Document ID** 1667032

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 17

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	3,919	2.64	156	155	-24.8	-23.5	0
Monthly Maximum	12,785	9.93	166	164	-24.0	-21.7	0
Monthly Minimum	0	0.00	149	148	-25.0	-25.0	0
Monthly Total	121,484						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
169.60	146.30	6.80	-25.20

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	11:40	3,914.43	0.00	159	156.0	-24	-22.0	19		0	RS		
2	15:30	0.00	0.00	159	157.0	-25	-22.1	19		0	RS		
3	10:20	0.00	0.00	157	155.0	-25	-24.3	19		0	RS		
4	09:20	0.00	0.00	156	155.0	-25	-24.8	19		0	RS		
5	09:40	0.00	0.00	156	154.0	-25	-24.8	19		0	RS		
6	09:40	0.00	0.00	156	155.0	-25	-24.7	19		0	CS		
7	10:25	5,643.88	9.64	160	159.0	-25	-22.6	20		0	CS		
8	13:38	12,156.88	7.17	154	153.0	-25	-22.7	20		0	JP		
9	11:15	10,464.29	0.00	154	152.0	-25	-22.9	18		0	JP		
10	13:35	870.79	0.00	162	160.0	-25	-23.7	19		0	JP		
11	10:45	0.00	0.00	162	160.0	-25	-24.2	19		0	JP		
12	09:30	0.00	0.00	160	159.0	-25	-24.9	19		0	CS		
13	09:00	98.48	0.00	159	157.0	-25	-24.9	19		0	LB		
14	09:50	0.00	0.00	160	159.0	-25	-24.8	19		0	LB		
15	11:35	737.07	8.07	161	160.0	-25	-23.7	19		0	LB		
16	15:00	11,963.33	7.67	153	155.0	-25	-23.5	18		0	RS		
17	11:25	11,354.64	7.88	149	148.0	-25	-23.5	18		0	RS		
18	10:20	12,785.24	7.98	149	148.0	-25	-22.6	18		0	RS		
19	09:55	11,701.98	7.88	166	164.0	-24	-21.7	20		0	RS		
20	14:00	3,832.43	0.00	158	156.0	-24	-22.0	20		0	BD		
21	11:17	0.00	0.00	152	155.0	-25	-22.1	20		0	BD		
22	14:37	10,605.05	0.00	152	160.0	-25	-22.1	20		0	BD		
23	10:30	702.86	0.00	153	155.0	-25	-22.5	20		0	BD		
24	13:50	0.00	0.00	156	155.0	-24	-23.4	19		0	JP		
25	11:10	0.00	0.00	155	153.0	-24	-24.0	19		0	JP		
26	11:30	0.00	0.00	155	154.0	-25	-25.0	19		0	JP		
27	13:25	0.00	0.00	154	153.0	-25	-24.8	19		0	JP		
28	09:55	0.00	0.00	153	152.0	-25	-24.7	19		0	LB		
29	11:40	847.98	7.48	162	161.0	-24	-23.5	19		0	LB		
30	10:50	11,963.60	9.93	150	148.0	-24	-23.7	17		0	LB		
31	09:55	11,841.05	8.12	153	151.0	-25	-23.3	19		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	96.50	08/01/2022	7.68	08/01/2022	288.0	08/01/2022	08/04/2022	54.10000	1.00000
2	86.40	08/08/2022	7.02	08/08/2022	311.0	08/08/2022	08/10/2022	55.20000	1.30000
3	93.80	08/15/2022	7.43	08/15/2022	251.0	08/15/2022	08/19/2022	52.00000	1.70000
4	99.40	08/22/2022	7.88	07/22/2022	336.0	08/22/2022	08/26/2022	57.20000	1.70000
5	99.20	08/29/2022	6.94	08/29/2022	312.0	08/29/2022	09/02/2022	52.50000	1.60000

Monthly Injectate Samples

Date Sample Collected 08/01/2022

Kansas Lab Certificate Number 10116

Constituent	Value	Units
Chromium	0.0518	mg/l

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 07/06/2022
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	280.000	mg/l
Conductivity	5,720.000	Mmhos
Iron	0.134	mg/l
Magnesium	100.000	mg/l
Sodium	766.000	mg/l
Specific Gravity	1.000	N/A
Sulfate	2,060.000	mg/l
Total Alkalinity as CaCO3	371.000	mg/l
Total Dissolved Solids	4,080.000	mg/l
Total Hardness as CaCO3	1,110.000	mg/l
Zinc	0.600	mg/l