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

Submitted 08/25/2022 **Approved** 08/31/2022 **KOLAR Document ID** 1662097

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	6,180	4.22	160	159	-24.6	-22.8	0
Monthly Maximum	12,566	12.17	168	167	-15.0	-14.8	0
Monthly Minimum	0	0.00	153	152	-25.0	-28.3	0
Monthly Total	191,583						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
171.30	151.20	-5.80	-28.30

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	09:45	11,993.95	9.48	168	167.0	-25	-21.4	19		0	RS		
2	10:35	12,255.52	0.00	164	162.0	-25	-23.0	19		0	RS		
3	09:43	0.00	0.00	161	159.0	-25	-23.5	19		0	NH		
4	09:48	0.00	0.00	161	159.0	-25	-24.1	19		0	NH		
5	10:29	0.00	0.00	159	159.0	-25	-24.8	18		0	NH		
6	09:04	11,022.71	8.50	166	164.0	-25	-23.3	19		0	NH		
7	10:30	11,952.14	8.67	160	159.0	-25	-21.1	19		0	CS		
8	10:40	12,105.26	8.64	166	165.0	-25	-21.2	20		0	CS		
9	10:40	12,258.67	8.21	166	164.0	-25	-21.1	20		0	CS		
10	10:05	12,080.29	9.26	164	163.0	-25	-20.9	20		0	CS		
11	09:50	12,102.55	0.00	160	159.0	-25	-21.7	20		0	LB		
12	09:40	0.00	0.00	158	157.0	-25	-22.1	20		0	LB		
13	11:15	0.00	0.00	157	155.0	-25	-22.5	19		0	LB		
14	10:30	0.00	0.00	156	155.0	-25	-23.9	19		0	LB		
15	10:20	12.57	0.00	157	155.0	-25	-25.1	19		0	RS		
16	12:30	0.00	0.00	157	155.0	-25	-25.0	19		0	RS		
17	10:20	0.00	0.00	156	155.0	-25	-25.1	19		0	RS		
18	10:40	387.93	8.50	163	157.0	-25	-24.0	19		0	RS		
19	10:28	11,948.40	8.45	164	163.0	-24	-28.3	20		0	BD		
20	14:52	11,865.76	8.10	167	166.0	-25	-23.3	21		0	BD		
21	11:05	11,072.62	8.33	165	164.0	-25	-21.2	21		0	BD		
22	11:15	12,565.71	8.69	165	164.0	-24	-21.2	21		0	BD		
23	10:30	12,372.74	8.33	163	162.0	-25	-21.4	20		0	CS		
24	10:40	11,894.88	0.00	162	161.0	-25	-22.9	20		0	JP		
25	12:45	0.00	0.00	157	156.0	-25	-23.7	20		0	JP		
26	11:35	0.00	0.00	156	154.0	-25	-23.9	20		0	JP		
27	09:30	0.00	0.00	154	154.0	-25	-24.2	19		0	LB		
28	08:15	0.00	0.00	153	152.0	-25	-24.6	19		0	LB		
29	10:00	0.00	12.17	154	152.0	-15	-14.8	19		0	LB		
30	09:40	11,594.07	7.45	155	154.0	-25	-21.3	19		0	LB		
31	09:35	12,097.40	8.17	160	159.0	-24	-21.2	20		0	RS		

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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	95.90	07/06/2022	7.68	07/06/2022	317.0	07/06/2022	07/18/2022	62.50000	1.20000
2	94.00	07/11/2022	7.44	07/11/2022	314.0	07/11/2022	07/16/2022	3.00000	1.20000
3	96.70	07/18/2022	7.10	07/18/2022	299.0	07/18/2022	07/21/2022	59.40000	0.86000
4	95.60	07/25/2022	7.30	07/25/2022	299.0	07/25/2022	07/26/2022	54.60000	1.10000
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Monthly Injectate Samples

Date Sample Collected 07/06/2022

Kansas Lab Certificate Number 10116

Constituent	Value	Units
Chromium	0.0453	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