Facility Well Name Koch Fertilizer #2 **UIC Permit #** KS-01-057-001 **Month** December **Year** 2023

Submitted 01/26/2024 **Approved** 02/01/2024 **KOLAR Document ID** 1748634

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	4,973	3.85	183	186	-24.2	-20.8	0
Monthly Maximum	13,155	15.83	196	192	-9.0	-8.2	0
Monthly Minimum	0	0.00	162	161	-28.0	-25.8	0
Monthly Total	154,168						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
201.90	149.10	-6.70	-28.00

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	10:30	2,768.40	0.00	162	161.0	-27	-25.2	20		0	AS		
2	06:20	0.00	0.00	185	185.0	-21	-19.1	21		0	AS		
3	11:00	0.00	0.00	189	186.0	-20	-18.4	20		0	JP		
4	11:00	0.00	0.00	188	187.0	-18	-15.8	22		0	AS		
5	08:46	4,714.43	6.31	180	180.0	-25	-25.5	21		0	AH		
6	10:02	12,456.14	8.79	190	191.0	-28	-25.0	22		0	JA		
7	10:35	10,483.60	6.79	190	191.0	-28	-24.7	21		0	JA		
8	09:56	10,400.12	7.60	180	183.0	-28	-24.7	21		0	JA		
9	09:15	11,920.74	5.57	180	191.0	-28	-25.2	21		0	SF		
10	08:30	11,939.05	11.38	170	179.0	-28	-24.6	21		0	SF		
11	10:00	4,122.12	0.00	180	189.0	-28	-23.3	22		0	TS		
12	09:30	0.00	0.00	180	190.0	-25	-20.5	22		0	SF		
13	09:26	0.00	0.00	191	191.0	-24	-17.8	22		0	JA		
14	08:55	0.00	0.00	191	190.0	-23	-15.1	22		0	JA		
15	09:05	0.00	0.00	192	190.0	-14	-12.4	22		0	TA		
16	09:20	0.00	0.00	190	189.0	-12	-10.3	22		0	TA		
17	10:20	0.00	0.00	193	192.0	-9	-8.2	22		0	AS		
18	13:15	0.00	8.86	190	189.0	-26	-25.8	21		0	AS		
19	13:45	10,349.88	15.83	196	191.0	-24	-21.8	22		0	AS		
20	09:50	4,386.88	0.00	178	175.0	-26	-25.6	21		0	AS		
21	09:17	330.19	0.00	178	190.0	-27	-22.8	22		0	AH		
22	09:04	0.00	0.00	190	192.0	-25	-19.9	22		0	JA		
23	09:15	0.00	0.00	170	191.0	-25	-17.0	22		0	AH		
24	09:03	0.00	0.00	170	191.0	-25	-14.3	22		0	AH		
25	09:15	0.00	0.00	170	186.0	-25	-12.1	21		0	SF		
26	08:30	10,154.05	7.79	180	183.0	-28	-24.8	19		0	SF		
27	09:30	12,057.02	9.10	190	188.0	-25	-24.8	21		0	SF		
28	10:00	12,021.19	9.71	190	190.0	-25	-24.5	21		0	SF		
29	09:15	13,154.86	5.69	180	179.0	-28	-25.5	21		0	JA		
30	09:00	12,075.50	8.05	190	192.0	-28	-25.0	22		0	JA		
31	12:45	10,833.52	7.93	180	179.0	-27	-25.1	21		0	TA		

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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	91.00	12/04/2023	8.93	12/04/2023	178.0	12/04/2023	12/07/2023	322.00000	0.18000
2	89.20	12/11/2023	7.11	12/11/2023	274.0	12/11/2023	12/15/2023	61.40000	1.00000
3	92.70	12/18/2023	7.08	12/18/2023	266.0	12/18/2023	12/21/2023	55.90000	0.70000
4	93.80	12/27/2023	7.13	12/27/2023	299.0	12/27/2023	12/28/2023	50.40000	1.40000
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Monthly Injectate Samples

Date Sample Collected 12/04/2023

Kansas Lab Certificate Number 10116

Constituent	Value	Units
Chromium	0.0295	mg/l

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 10/02/2023
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	321.000	mg/l
Conductivity	4,430.000	Mmhos
Iron	0.171	mg/l
Magnesium	103.000	mg/l
Sodium	452.000	mg/l
Specific Gravity	1.000	N/A
Sulfate	1,400.000	mg/l
Total Alkalinity as CaCO3	347.000	mg/l
Total Dissolved Solids	3,060.000	mg/l
Total Hardness as CaCO3	1,220.000	mg/l
Zinc	0.426	mg/l