Facility Well Name Koch Fertilizer #3 **UIC Permit #** KS-01-057-002 **Month** July **Year** 2020

Submitted 08/28/2020 **Approved** 09/01/2020 **KOLAR Document ID** 1528430

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 24

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	8,090	5.45	177	175	-22.1	-19.7	0
Monthly Maximum	16,785	13.45	192	190	-15.0	0.0	0
Monthly Minimum	0	0.00	164	162	-25.0	-27.4	0
Monthly Total	250,780						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
192.20	162.00	6.80	-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	11:21	14,583.60	0.00	172	170.0	-18	-21.9	18	0	0	JO		
2	08:55	14,113.64	7.05	172	170.0	-25	-21.3	18	0	0	JO		
3	10:35	11,854.64	0.00	170	168.0	-25	-22.0	17	0	0	JO		
4	14:11	10,759.64	7.10	179	177.0	-25	-20.3	18	0	0	JO		
5	13:11	16,785.43	0.00	176	175.0	-25	-21.9	17	0	0	CM		
6	14:30	1,877.57	0.00	177	176.0	-25	-23.7	17	0	0	CM		
7	12:30	0.00	0.00	177	176.0	-25	-24.0	17	0	0	CM		
8	12:58	0.00	0.00	178	176.0	-25	-23.9	17	0	0	CM		
9	16:33	0.00	0.00	178	177.0	-25	-23.9	17	0	0	JW		
10	08:36	0.00	0.00	178	176.0	-25	-24.1	19	0	0	JW		
11	08:45	0.00	0.00	178	176.0	-25	-24.1	17	0	0	JW		
12	08:39	0.00	0.00	178	177.0	-25	-24.2	17	0	0	JW		
13	11:30	0.00	4.79	166	164.0	-24	-21.4	17	0	0	JL		
14	10:10	12,357.98	5.62	173	172.0	-24	-21.0	18	0	0	JL		
15	10:00	13,391.76	0.00	166	164.0	-24	-27.4	17	0	0	JL		
16	14:25	11,228.62	13.10	181	179.0	-18	-27.4	19	0	0	JL		
17	09:20	9,613.36	0.00	174	175.0	-25	0.0	19	0	0	JO		
18	09:01	14,511.21	13.45	176	175.0	-22	-18.9	18	0	0	JO		
19	09:10	14,195.38	11.71	164	162.0	-24	-20.2	16	0	0	JO		
20	09:10	5,663.38	12.79	167	166.0	-18	-14.3	17	0	0	JO		
21	15:35	6,441.10	0.00	173	173.0	-25	-24.1	18	0	0	DV		
22	11:08	6,702.17	0.00	177	175.0	-25	-23.2	17	0	0	DV		
23	13:55	354.05	12.02	177	176.0	-23	-20.2	17	0	0	CM		
24	15:10	13,318.36	6.33	192	190.0	-18	-20.6	17	0	0	CM		
25	12:08	12,359.76	12.40	184	182.0	-15	-11.7	17	0	0	JW		
26	10:10	14,190.95	12.64	186	185.0	-15	-13.1	17	0	0	PS		
27	09:15	3,165.62	0.02	180	179.0	-24	-23.2	17	0	0	PS		
28	11:17	4,681.00	12.71	183	182.0	-17	-14.0	17	0	0	PS		
29	12:15	13,255.45	12.40	181	179.0	-17	-12.3	19	0	0	JL		
30	14:45	12,979.12	12.64	179	177.0	-16	-12.5	19	0	0	JL		
31	16:45	12,396.24	12.14	184	183.0	-17	-11.4	19	0	0	JL		

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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	07/06/2020	7.35	07/06/2020	267.0	07/06/2020	07/10/2020	55.30000	1.70000
2	93.60	07/13/2020	7.61	07/13/2020	300.0	07/13/2020	07/16/2020	55.90000	0.79000
3	100.30	07/22/2020	8.65	07/22/2020	259.0	07/22/2020	07/28/2020	56.00000	1.70000
4	93.30	07/27/2020	8.90	07/27/2020	279.0	07/27/2020	07/28/2020	54.50000	1.20000
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Monthly Injectate Samples

Date Sample Collected 07/06/2020

Kansas Lab Certificate Number 10116

Constituent	Value	Units
Chromium	0.0574	mg/l

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 07/06/2020
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	337.000	mg/l
Conductivity	4,580.000	Mmhos
Iron	0.162	mg/l
Magnesium	101.000	mg/l
Sodium	750.000	mg/l
Specific Gravity	1.000	N/A
Sulfate	1,800.000	mg/l
Total Alkalinity as CaCO3	323.000	mg/l
Total Dissolved Solids	3,000.000	mg/l
Total Hardness as CaCO3	1,260.000	mg/l
Zinc	0.762	mg/l