Facility Well Name Koch Fertilizer #2 **UIC Permit #** KS-01-057-001 **Month** August **Year** 2020

Submitted 09/28/2020 **Approved** 09/30/2020 **KOLAR Document ID** 1531431

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

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	6,378	3.42	183	183	-24.2	-21.8	0
Monthly Maximum	14,128	17.52	197	198	-4.0	-5.0	0
Monthly Minimum	34	0.02	165	166	-28.0	-26.0	0
Monthly Total	197,708						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
211.00	140.60	6.80	-28.00

Comments:

Koch Fertilizer #2 08/2020

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	10:10	34.31	0.02	183	183.0	-26	-19.8	24	0	0	JL		
2	09:40	34.24	0.02	183	184.0	-20	-18.6	24	0	0	JO		
3	08:55	11,180.52	0.02	184	184.0	-28	-26.0	24	0	0	JO		
4	10:45	12,854.88	0.02	182	183.0	-26	-26.0	24	0	0	JO		
5	10:40	12,558.64	7.05	165	166.0	-26	-25.6	21	0	0	JO		
6	11:51	14,127.67	7.62	175	173.0	-28	-25.8	22	0	0	CM		
7	10:38	12,352.79	17.52	181	182.0	-27	-23.4	23	0	0	AB		
8	15:06	12,559.81	0.02	197	198.0	-27	-25.7	26	0	0	CM		
9	14:26	12,246.10	14.40	190	190.0	-27	-24.0	24	0	0	CM		
10	08:50	5,241.76	0.02	188	189.0	-27	-25.7	24	0	0	PS		
11	08:40	34.24	0.02	188	189.0	-27	-25.2	24	0	0	PS		
12	09:56	34.29	0.02	186	186.0	-28	-24.5	24	0	0	JW		
13	08:52	34.31	0.02	186	186.0	-25	-23.8	24	0	0	PS		
14	09:34	34.29	0.02	186	186.0	-26	-23.2	24	0	0	AB		
15	08:42	1,621.48	0.02	176	176.0	-26	-24.4	23	0	0	JW		
16	14:13	34.21	0.02	180	185.0	-28	-12.1	23	0	0	DV		
17	11:19	2,450.93	0.02	180	180.0	-26	-21.3	23	0	0	DV		
18	11:00	34.31	0.02	184	184.0	-11	-10.6	24	0	0	DV		
19	11:36	34.24	9.55	170	171.0	-27	-25.6	22	0	0	DV		
20	10:35	13,616.98	15.17	173	173.0	-28	-24.4	22	0	0	DV		
21	16:00	7,566.62	0.02	185	186.0	-20	-17.8	24	0	0	AB		
22	14:30	34.31	0.02	186	187.0	-10	-9.6	24	0	0	CM		
23	10:14	34.29	0.02	184	185.0	-4	-5.0	24	0	0	CM		
24	10:00	7,142.17	0.02	173	175.0	-26	-25.8	22	0	0	JB		
25	10:15	12,672.36	0.02	182	183.0	-28	-25.9	23	0	0	CM		
26	10:38	12,620.02	16.64	187	186.0	-25	-23.6	24	0	0	PS		
27	08:47	13,950.95	0.02	188	189.0	-27	-25.6	24	0	0	PS		
28	08:43	8,178.88	17.52	186	187.0	-27	-23.0	24	0	0	PS		
29	10:41	12,203.98	0.02	182	183.0	-27	-25.8	24	0	0	PS		
30	13:45	12,149.74	0.02	188	188.0	-26	-23.7	24	0	0	JL		
31	16:00	34.67	0.02	187	187.0	-16	-14.5	24	0	0	JL		

Koch Fertilizer #2 08/2020

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	90.00	08/04/2020	7.51	08/04/2020	274.0	08/04/2020	08/07/2020	59.00000	1.20000
2	96.90	08/10/2020	8.52	08/10/2020	277.0	08/10/2020	08/16/2020	75.20000	1.10000
3	100.60	08/17/2020	7.80	08/17/2020	283.0	08/17/2020	08/22/2020	54.30000	1.20000
4	94.10	08/24/2020	8.66	08/24/2020	281.0	08/24/2020	09/03/2020	73.70000	1.00000
5	90.00	08/31/2020	6.71	08/31/2020	193.0	08/31/2020	09/10/2020	49.20000	0.71000

Monthly Injectate Samples

Date Sample Collected 08/04/2020

Kansas Lab Certificate Number 10116

Constituent	Value	Units
Chromium	0.0516	mg/l

Koch Fertilizer #2 08/2020

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