Facility Well Name Sunflower (Fort Dodge) #1 **UIC Permit #** KS-01-057-003 **Month** March **Year** 2022

Submitted 04/25/2022 **Approved** 04/27/2022 **KOLAR Document ID** 1640766

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 1

Barrels per Day Maximum: 20,571

	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Annulus Pressure psig min 60 Gauge psig	Annulus Pressure Cont. Record psig	Injection Pressure Gauge psig	Injection Pressure Cont. Record psig	Amount Added to Seal Pot
Monthly Average	38	0.00	273	272	-0.3	1.3	
Monthly Maximum	1,183	0.00	620	619	0.0	1.3	
Monthly Minimum	0	0.00	144	141	-1.0	1.3	
Monthly Total	1,183						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
619.41	140.07	1.62	-26.25

Comments:

The actual injection rate (GPM) reading showed negative values throughout the month when the injection well had no flow and was recorded as negative, but changed to 0 for the report to indicate no flow at that time.

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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	08:08	0.00	0.00	322	320.2	0	1.3	33			KK		
2	08:07	1,183.05	0.00	620	619.3	-1	1.3	28			KK		
3	08:00	0.00	0.00	484	484.9	-1	1.3	31			KK		
4	08:15	0.00	0.00	451	451.8	-1	1.3	31			TK		
5	08:20	0.00	0.00	408	406.7	-1	1.3	32			KK		
6	08:26	0.00	0.00	368	366.8	-1	1.3	32			KK		
7	08:29	0.00	0.00	336	334.8	-1	1.3	32			LF		
8	08:15	0.00	0.00	311	309.8	-1	1.3	32			LF		
9	08:20	0.00	0.00	290	288.3	-1	1.3	32			LF		
10	08:20	0.00	0.00	272	269.8	0	1.3	32			LF		
11	08:16	0.00	0.00	255	254.0	0	1.3	32			CS		
12	07:54	0.00	0.00	242	240.2	0	1.3	32			LF		
13	08:01	0.00	0.00	230	227.4	0	1.3	33			LF		
14	08:10	0.00	0.00	219	214.8	0	1.3	33			MH		
15	07:59	0.00	0.00	207	203.4	0	1.3	33			MH		
16	08:03	0.00	0.00	195	192.7	0	1.3	33			MH		
17	07:49	0.00	0.00	185	182.6	0	1.3	33			MH		
18	08:06	0.00	0.00	175	173.4	0	1.3	33			TK		
19	07:51	0.00	0.00	168	165.0	0	1.3	33			MH		
20	07:16	0.00	0.00	159	157.2	0	1.3	33			MH		
21	08:16	0.00	0.00	155	151.4	0	1.3	33			CG		
22	08:20	0.00	0.00	150	147.2	0	1.3	33			CG		
23	07:24	0.00	0.00	146	143.7	0	1.3	33			CG		
24	07:39	0.00	0.00	144	140.5	0	1.3	33			CG		
25	08:06	0.00	0.00	327	325.8	0	1.3	33			TK		
26	06:42	0.00	0.00	311	310.7	0	1.3	33			CG		
27	06:33	0.00	0.00	296	295.3	0	1.3	33			CG		
28	06:34	0.00	0.00	285	280.5	0	1.3	33			MH		
29	08:02	0.00	0.00	267	265.5	0	1.3	33			CS		
30	07:36	0.00	0.00	255	252.6	0	1.3	33			CS		
31	07:38	0.00	0.00	244	240.7	0	1.3	33			CS		

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Weekly Injectate Samples

Kansas Lab Certificate Number E-10150

Week	**Temperature**		**pH**		**Chloride**				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	63.80	03/01/2022	7.16	03/01/2022	570.0	03/01/2022	03/02/2022		
2									
3									
4									
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 03/01/2022
Kansas Lab Certificate Number E-10150
Lab Name Servi-Tech Lab

These samples shall be representative of injection activity and shall therefore be collected on days of injection.

Constituent	Value	Units
Ammonia	ND	mg/l
Calcium	503.000	mg/l
Chloride	570.000	mg/l
Conductivity	5,000.000	Mmhos
Magnesium	115.000	mg/l
Sodium	470.000	mg/l
Sulfate	1,300.000	mg/l
Total Alkalinity as CaCO3	620.00000	mg/l (as CaCO3)
Total Dissolved Solids	1,980.000	mg/l
Total Hardness as CaCO3	1,700.00000	mg/l (as CaCO3)
Total Suspended Solids	ND	mg/l