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

Submitted 08/25/2022 **Approved** 08/31/2022 **KOLAR Document ID** 1662138

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 6

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	825	0.37	280	276	-5.0	-3.1	
Monthly Maximum	6,857	2.43	474	474	0.0	1.3	
Monthly Minimum	0	0.00	147	142	-26.0	-26.1	
Monthly Total	25,576						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
504.46	138.21	1.39	-26.30

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. Total Alkalinity analysis was performed out of hold time. We are planning to resample for Total Alkalinity during our next run expected in June 2022.

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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	07:51	0.00	0.00	190	186.8	-1	1.3	32			LF		
2	08:25	0.00	0.00	180	174.5	-1	1.3	32			TK		
3	06:24	0.00	0.00	170	164.4	-1	1.3	33			TK		
4	09:57	3,433.12	2.36	265	263.6	-24	-26.0	26			CS		
5	06:21	4,889.81	2.02	170	166.8	-24	-25.9	27			CS		
6	06:52	4,127.00	2.43	200	195.4	-25	-25.9	27			TK		
7	06:30	5,251.12	2.33	345	339.6	-26	-26.0	26			TK		
8	08:26	6,857.36	2.24	317	313.6	-26	-26.1	26			KK		
9	07:00	1,017.90	0.00	370	364.2	-2	1.3	28			TK		
10	06:58	0.00	0.00	474	473.9	-2	1.3	29			KK		
11	06:53	0.00	0.00	467	464.0	-2	1.3	30			TK		
12	07:07	0.00	0.00	435	431.3	-2	1.3	30			TK		
13	07:48	0.00	0.00	405	401.3	-2	1.3	30			TK		
14	08:11	0.00	0.00	374	372.7	-2	1.3	30			LF		
15	07:41	0.00	0.00	346	343.9	-2	1.3	30			CG		
16	07:08	0.00	0.00	316	313.3	-2	1.3	30			CG		
17	05:00	0.00	0.00	291	287.5	-1	1.3	31			LF		
18	08:08	0.00	0.00	266	261.0	-1	1.3	31			TK		
19	08:16	0.00	0.00	244	239.7	-1	1.3	31			MH		
20	07:36	0.00	0.00	221	217.2	-1	1.3	31			MH		
21	07:31	0.00	0.00	200	197.9	-1	1.3	31			MH		
22	06:32	0.00	0.00	188	182.7	-1	1.3	32			MH		
23	06:25	0.00	0.00	172	168.5	-1	1.3	32			MH		
24	07:12	0.00	0.00	158	154.8	-1	1.3	32			MH		
25	08:27	0.00	0.00	147	142.4	-1	1.3	32			TK		
26	08:11	0.00	0.00	332	330.8	-1	1.3	31			CG		
27	07:46	0.00	0.00	322	318.9	-1	1.3	31			CG		
28	07:59	0.00	0.00	304	301.3	-1	1.3	31			CG		
29	08:13	0.00	0.00	285	281.5	0	1.3	31			LF		
30	07:07	0.00	0.00	268	265.8	0	1.3	32			CS		
31	07:14	0.00	0.00	252	249.9	0	1.3	32			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	69.10	07/08/2022	7.54	07/08/2022	510.0	07/08/2022	07/08/2022		
2									
3									
4									
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 07/08/2022
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	750.000	mg/l
Chloride	510.000	mg/l
Conductivity	6,010.000	Mmhos
Magnesium	165.000	mg/l
Sodium	475.000	mg/l
Sulfate	2,100.000	mg/l
Total Alkalinity as CaCO3	660.00000	mg/l (as CaCO3)
Total Dissolved Solids	4,990.000	mg/l
Total Hardness as CaCO3	2,600.00000	mg/l (as CaCO3)
Total Suspended Solids	ND	mg/l