Facility Well Name Sunflower (Fort Dodge) #1 **UIC Permit #** KS-01-057-003 **Month** February **Year** 2021

Submitted 03/25/2021 **Approved** 03/26/2021 **KOLAR Document ID** 1565979

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 5

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	796	0.23	334	327	-2.7	-2.4	
Monthly Maximum	6,473	2.74	620	619	1.0	1.3	
Monthly Minimum	0	0.00	150	141	-22.0	-25.4	
Monthly Total	22,281						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
619.29	140.03	1.34	-26.64

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	07:54	0.00	0.00	210	203.2	1	1.3	34			TK		
2	06:22	0.00	0.00	200	190.9	1	1.2	34			MH		
3	06:19	0.00	0.00	187	179.0	1	1.3	34			MH		
4	06:13	0.00	0.00	175	168.1	1	1.2	34			MH		
5	06:23	0.00	0.00	164	158.3	1	1.2	34			MH		
6	08:36	0.00	0.00	158	148.3	1	1.2	34			LF		
7	08:25	0.00	0.00	150	140.5	1	1.2	34			LF		
8	08:20	0.00	0.00	305	295.8	1	1.2	34			CS		
9	08:29	0.00	0.00	277	267.8	1	1.2	34			LF		
10	08:22	0.00	0.00	255	245.9	1	1.2	34			LF		
11	06:27	0.00	0.00	232	228.7	1	1.2	34			TK		
12	03:12	0.00	0.00	222	214.3	1	1.2	34			CS		
13	05:14	0.00	0.00	220	210.8	1	1.2	34			CS		
14	06:16	6,473.45	2.74	400	387.8	-22	-22.2	27			TK		
15	09:20	5,892.02	1.21	305	305.7	-22	-25.4	26			TK		
16	06:37	3,969.52	1.24	340	335.1	-22	-24.2	27			TK		
17	06:17	4,540.19	1.33	305	303.5	-22	-24.7	27			TK		
18	07:00	1,406.21	0.00	620	619.0	0	1.2	27			TK		
19	01:09	0.00	0.00	620	619.1	0	1.3	29			CS		
20	08:23	0.00	0.00	620	619.1	0	1.3	31			CS		
21	08:41	0.00	0.00	568	557.7	0	1.2	31			CS		
22	08:17	0.00	0.00	518	507.1	0	1.2	31			CS		
23	07:58	0.00	0.00	470	461.9	0	1.3	32			CS		
24	07:43	0.00	0.00	430	421.7	0	1.2	33			CS		
25	07:55	0.00	0.00	395	386.4	0	1.3	33			CS		
26	08:31	0.00	0.00	364	355.3	0	1.3	33			CG		
27	07:30	0.00	0.00	340	329.1	0	1.3	33			TK		
28	08:03	0.00	0.00	311	304.1	0	1.2	33			TK		
29													
30													
31													

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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	57.70	02/15/2021	7.15	02/15/2021	690.0	02/15/2021	02/17/2021		
2									
3									
4									
5									

No monthly injectate samples required.

Quarterly Injectate Samples

Quarter 1
Date Sample Collected 02/15/2021
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	828.000	mg/l
Chloride	690.000	mg/l
Conductivity	6,620.000	Mmhos
Magnesium	185.000	mg/l
Sodium	576.000	mg/l
Sulfate	2,600.000	mg/l
Total Alkalinity as CaCO3	710.000	mg/l
Total Dissolved Solids	5,390.000	mg/l
Total Hardness as CaCO3	2,800.000	mg/l
Total Suspended Solids	ND	mg/l