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

Submitted 07/13/2021 **Approved** 07/30/2021 **KOLAR Document ID** 1582145

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 4

Barrels per Day Maximum: 20,571

			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	694	0.20	323	315	-2.6	-1.4	
Monthly Maximum	6,378	2.93	600	620	0.0	1.3	
Monthly Minimum	0	0.00	155	149	-24.0	-26.1	
Monthly Total	20,809						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
620.00	139.17	1.79	-26.16

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	08:30	0.00	0.00	335	327.6	0	1.3	33			CS		
2	08:11	0.00	0.00	330	319.4	0	1.3	33			CS		
3	08:21	0.00	0.00	320	309.2	0	1.3	34			CS		
4	07:51	0.00	0.00	308	297.7	0	1.3	34			TK		
5	07:42	0.00	0.00	294	284.8	0	1.3	34			LF		
6	07:46	0.00	0.00	281	271.7	0	1.3	34			LF		
7	06:51	0.00	0.00	268	259.2	0	1.3	34			LF		
8	00:02	4,711.14	2.93	310	300.1	-24	-25.9	27			TK		
9	01:26	6,196.90	1.79	355	343.8	-24	-26.1	28			TK		
10	00:21	3,523.10	1.40	350	337.5	-24	-25.4	28			TK		
11	19:00	6,377.98	0.00	600	619.7	-3	1.3	29			TK		
12	07:33	0.00	0.00	600	619.4	-1	1.3	29			CG		
13	06:42	0.00	0.00	540	529.0	-1	1.3	30			CG		
14	08:32	0.00	0.00	466	452.9	-1	1.3	31			CG		
15	08:19	0.00	0.00	416	402.0	0	1.3	32			CG		
16	07:43	0.00	0.00	372	360.3	0	1.3	32			CG		
17	08:33	0.00	0.00	330	322.4	0	1.3	33			CS		
18	08:52	0.00	0.00	300	289.6	0	1.3	33			TK		
19	06:39	0.00	0.00	272	262.6	0	1.3	33			MH		
20	04:30	0.00	0.00	250	239.2	0	1.3	33			MH		
21	06:45	0.00	0.00	226	215.4	0	1.3	33			MH		
22	06:28	0.00	0.00	207	197.3	0	1.3	33			MH		
23	06:29	0.00	0.00	190	180.6	0	1.3	33			MH		
24	07:35	0.00	0.00	173	163.7	0	1.3	33			MH		
25	08:06	0.00	0.00	155	148.9	0	1.3	33			CS		
26	07:34	0.00	0.00	340	331.2	0	1.3	33			CS		
27	05:15	0.00	0.00	315	305.4	0	1.3	33			CS		
28	08:10	0.00	0.00	286	274.8	0	1.3	33			CG		
29	07:53	0.00	0.00	258	248.4	0	1.3	33			LF		
30	07:47	0.00	0.00	235	225.1	0	1.3	34			CS		
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	66.00	06/08/2021	7.54	06/08/2021	560.0	06/08/2021	06/09/2021		
2									
3									
4									
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 06/08/2021
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	609.000	mg/l
Chloride	560.000	mg/l
Conductivity	5,140.000	Mmhos
Magnesium	133.000	mg/l
Sodium	476.000	mg/l
Sulfate	1,800.000	mg/l
Total Alkalinity as CaCO3	550.00000	mg/l (as CaCO3)
Total Dissolved Solids	3,880.000	mg/l
Total Hardness as CaCO3	2,100.00000	mg/l (as CaCO3)
Total Suspended Solids	ND	mg/l