Facility Well Name Sunflower (Fort Dodge) #1 **UIC Permit #** KS-01-057-003 **Month** June **Year** 2023

Submitted 07/27/2023 **Approved** 07/31/2023 **KOLAR Document ID** 1721390

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 17

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	4,346	3.29	328	324	-13.5	-12.7	
Monthly Maximum	12,583	18.81	650	619	0.0	1.3	
Monthly Minimum	0	0.00	152	148	-26.0	-26.1	
Monthly Total	130,370						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
607.50	137.48	1.35	-26.21

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.
Several annulus pressure readings (maximum, 06/12, 06/23 and 06/24) are flagged indicating a maximum of 500 psig. Requesting an update to flag at a higher pressure (600 psig) and working to reduce the annulus pressure below 600 psig.

Sunflower (Fort Dodge) #1 06/2023

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	08:36	0.00	0.00	434	434.2	0	1.3	29			TK		
2	07:56	0.00	0.00	434	433.8	0	1.3	29			TK		
3	08:03	0.00	0.00	433	432.0	0	1.3	29			LF		
4	01:50	6,436.21	17.98	361	358.8	-18	-17.4	24			CS		
5	00:40	7,823.10	3.05	347	342.6	-26	-26.1	24			TK		
6	01:22	8,487.00	3.19	331	328.6	-26	-26.0	24			CS		
7	00:30	9,463.83	2.93	308	305.3	-26	-25.9	24			TK		
8	12:50	9,981.12	18.12	326	323.7	-23	-22.7	24			CS		
9	01:06	10,135.36	3.14	314	311.0	-26	-25.8	23			TK		
10	07:24	12,583.21	18.81	327	323.9	-24	-22.5	24			KK		
11	00:42	7,399.50	3.07	307	306.0	-26	-25.7	24			TK		
12	00:43	6,645.57	0.00	585	590.1	-20	-19.1	24			TK		
13	02:52	0.00	0.00	440	438.8	-4	-3.7	27			TK		
14	01:07	0.00	0.00	275	271.6	-2	0.7	28			TK		
15	01:24	0.00	0.00	216	213.6	-1	1.3	29			TK		
16	07:51	0.00	0.00	262	262.4	-1	1.2	29			BM		
17	07:40	0.00	0.00	292	290.0	0	1.3	30			KK		
18	06:52	0.00	0.00	313	311.3	0	1.3	29			KK		
19	08:56	0.00	0.00	330	328.6	0	1.3	29			SM		
20	07:39	0.00	0.00	234	233.0	0	1.3	30			CG		
21	07:24	0.00	0.00	246	244.0	0	1.3	30			CG		
22	07:55	0.00	0.00	255	254.0	0	1.3	30			CG		
23	07:59	2,281.88	0.00	650	619.4	-14	-13.7	25			TK		
24	07:07	2,655.95	0.00	650	619.4	-14	-14.0	25			CG		
25	06:52	7,843.43	16.00	170	165.4	-25	-24.0	25			CG		
26	03:23	5,073.57	2.60	200	197.0	-26	-26.1	25			TK		
27	07:29	9,081.45	2.40	152	147.5	-26	-26.0	25			LF		
28	01:42	6,360.83	2.43	152	153.4	-26	-25.8	24			BM		
29	02:10	8,294.43	2.50	156	152.1	-26	-25.8	25			KK		
30	00:18	9,823.21	2.36	334	333.2	-26	-25.9	24			BM		
31													

Sunflower (Fort Dodge) #1 06/2023

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	67.50	06/06/2023	7.45	06/06/2023	920.0	06/06/2023	06/06/2023		
2	65.10	06/22/2023	7.53	06/22/2023	510.0	06/22/2023	06/23/2023		
3	66.90	06/28/2023	7.62	06/28/2023	440.0	06/28/2023	06/28/2023		
4									
5									

No monthly injectate samples required.