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

Submitted 09/28/2023 **Approved** 09/29/2023 **KOLAR Document ID** 1728471

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 27

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	8,453	4.52	243	241	-22.5	-22.8	
Monthly Maximum	12,406	19.21	373	369	-1.0	0.6	
Monthly Minimum	0	0.00	153	152	-26.0	-26.4	
Monthly Total	262,033						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
607.50	138.57	0.95	-26.42

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.
The maximum annulus pressure reading is flagged indicating a maximum of 500 psig. Requesting an update to flat at a higher pressure (600 psig) and working to reduce the annulus pressure below 600 psig.

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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	03:08	11,916.69	2.19	182	178.8	-26	-26.1	24			TK		
2	01:09	9,850.02	17.86	209	204.1	-26	-23.0	24			BM		
3	01:02	8,969.10	2.26	189	182.7	-26	-26.0	24			BM		
4	01:08	10,283.74	2.45	201	201.3	-26	-25.9	24			BM		
5	01:09	11,057.19	2.19	173	172.0	-26	-26.0	24			BM		
6	01:07	10,185.02	2.24	170	169.9	-26	-26.1	24			BM		
7	01:33	9,399.71	19.21	196	191.0	-23	-22.3	24			SM		
8	04:42	12,110.40	17.71	180	178.7	-23	-23.0	25			CS		
9	01:16	9,003.29	2.36	181	177.5	-26	-25.9	25			CG		
10	01:23	10,053.57	2.33	168	165.4	-26	-26.0	24			TK		
11	01:15	10,413.64	18.86	198	196.3	-23	-25.5	25			CG		
12	01:30	11,030.02	2.50	183	179.4	-25	-25.9	24			SM		
13	01:37	10,901.45	2.07	153	152.2	-25	-26.0	25			SM		
14	01:40	9,382.17	2.55	176	173.2	-24	-26.2	25			SM		
15	01:22	8,323.36	2.21	339	338.9	-25	-26.4	24			SM		
16	01:03	9,495.55	2.12	312	311.5	-24	-26.2	24			SM		
17	01:26	6,027.43	0.00	202	208.2	-20	-21.2	27			CS		
18	01:19	0.00	0.00	225	221.7	-11	-11.4	28			CS		
19	01:04	0.00	0.00	307	305.5	-8	-9.3	28			KK		
20	01:24	0.00	0.00	329	326.7	-2	-1.0	28			KK		
21	01:22	0.00	0.00	360	358.9	-1	0.6	28			KK		
22	01:00	4,364.76	2.45	373	369.4	-26	-26.2	24			BM		
23	01:21	9,592.45	2.50	341	339.7	-26	-26.1	24			SM		
24	01:22	9,917.98	2.26	304	303.1	-26	-26.1	24			SM		
25	01:07	10,266.98	2.50	304	303.6	-25	-26.0	24			SM		
26	01:40	11,178.50	2.57	300	298.9	-26	-26.0	24			CG		
27	02:53	7,641.98	2.07	272	270.4	-26	-26.2	24			TK		
28	01:29	8,105.81	2.21	250	248.0	-26	-26.2	24			CG		
29	05:10	12,405.90	17.57	255	256.6	-24	-23.1	24			TK		
30	01:15	9,073.81	2.52	250	250.7	-26	-26.1	24			BM		
31	01:10	11,082.33	2.33	236	233.8	-25	-26.0	24			BM		

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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	68.10	08/03/2023	7.41	08/03/2023	970.0	08/03/2023	08/03/2023		
2	67.20	08/10/2023	7.38	08/10/2023	990.0	08/10/2023	08/10/2023		
3	67.20	08/16/2023	7.45	08/16/2023	907.0	08/16/2023	08/17/2023		
4	63.80	08/24/2023	7.39	08/24/2023	870.0	08/24/2023	08/25/2023		
5									

No monthly injectate samples required.