Facility Well Name Sunflower (Fort Dodge) #1 **UIC Permit #** KS-01-057-003 **Month** August **Year** 2019

Submitted 09/19/2019 **Approved** 10/30/2019 **KOLAR Document ID** 1472411

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 2

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	382	0.09	245	230	-21.5	-20.8	
Monthly Maximum	10,893	2.71	415	405	-18.0	-16.1	
Monthly Minimum	0	0.00	152	142	-24.0	-26.0	
Monthly Total	11,840						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
457.05	140.00	-15.78	-26.27

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	08:03	10,893.40	2.71	200	186.7	-24	-26.0	30			DA		
2	07:19	946.90	0.00	415	405.0	-24	-25.8	32			CG		
3	06:49	0.00	0.00	254	243.0	-24	-25.5	33			MH		
4	08:16	0.00	0.00	292	279.0	-24	-25.1	34			MH		
5	08:03	0.00	0.00	220	209.0	-24	-24.7	35			MH		
6	08:08	0.00	0.00	267	245.0	-24	-24.3	35			MH		
7	10:36	0.00	0.00	224	204.0	-24	-23.8	35			DA		
8	08:07	0.00	0.00	189	179.0	-24	-23.5	35			MH		
9	07:41	0.00	0.00	160	153.0	-23	-23.2	35			CS		
10	07:42	0.00	0.00	391	332.0	-23	-22.8	35			CG		
11	06:34	0.00	0.00	152	142.0	-23	-22.5	35			CG		
12	07:41	0.00	0.00	292	281.0	-22	-22.0	35			CG		
13	07:59	0.00	0.00	292	281.0	-22	-21.8	35			CG		
14	08:05	0.00	0.00	242	222.0	-22	-21.6	35			CG		
15	07:52	0.00	0.00	173	165.0	-22	-21.1	35			CG		
16	07:28	0.00	0.00	310	298.0	-22	-20.6	35			CS		
17	08:00	0.00	0.00	254	233.0	-21	-20.2	35			DA		
18	08:30	0.00	0.00	155	144.0	-21	-19.9	35			DA		
19	07:51	0.00	0.00	279	268.0	-20	-19.6	35			DA		
20	08:00	0.00	0.00	188	177.0	-20	-19.3	36			DA		
21	07:56	0.00	0.00	255	241.0	-20	-19.0	35			CS		
22	08:00	0.00	0.00	187	157.0	-20	-18.7	36			DA		
23	07:49	0.00	0.00	310	302.0	-20	-18.4	35			CS		
24	07:31	0.00	0.00	270	222.0	-20	-18.1	35			CS		
25	07:28	0.00	0.00	170	143.0	-20	-17.6	36			CS		
26	07:55	0.00	0.00	246	232.0	-19	-17.2	36			CG		
27	08:03	0.00	0.00	170	182.0	-19	-17.2	36			CS		
28	07:49	0.00	0.00	310	299.0	-19	-17.0	35			CS		
29	07:09	0.00	0.00	230	214.0	-19	-16.5	36			CS		
30	07:36	0.00	0.00	330	312.0	-19	-16.3	35			CS		
31	08:24	0.00	0.00	182	170.9	-18	-16.1	36			KK		

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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	64.30	08/01/2019	7.43	08/01/2019	609.0	08/01/2019	08/01/2019		
2									
3									
4									
5									

No monthly injectate samples required.