Facility Well Name Sunflower (Fort Dodge) #1 **UIC Permit #** KS-01-057-003 **Month** September **Year** 2020

Submitted 10/08/2020 **Approved** 10/30/2020 **KOLAR Document ID** 1532578

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	326	0.24	276	267	-2.3	-0.3	
Monthly Maximum	8,247	7.17	629	619	0.0	1.4	
Monthly Minimum	0	0.00	155	146	-22.0	-25.1	
Monthly Total	9,778						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
619.94	140.06	1.64	-26.39

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.

Sunflower (Fort Dodge) #1 09/2020

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	07:58	0.00	0.00	157	146.1	-1	1.2	35			KK		
2	08:15	0.00	0.00	327	316.7	-1	1.1	34			KK		
3	08:18	0.00	0.00	294	284.4	-1	1.2	34			KK		
4	08:17	0.00	0.00	265	253.8	-1	1.0	34			LF		
5	08:00	0.00	0.00	238	226.8	-1	1.0	34			DA		
6	08:50	0.00	0.00	213	201.5	-1	1.3	35			DA		
7	08:34	0.00	0.00	191	180.1	-1	1.4	35			DA		
8	08:11	0.00	0.00	173	162.2	-1	1.2	35			DA		
9	06:45	0.00	0.00	160	149.4	0	1.0	34			DA		
10	07:54	0.00	0.00	344	335.4	0	1.0	34			DA		
11	08:28	0.00	0.00	320	313.0	0	1.2	34			CS		
12	07:04	0.00	0.00	300	290.4	0	1.4	34			MH		
13	08:34	0.00	0.00	272	263.9	0	1.2	34			MH		
14	06:28	0.00	0.00	252	242.0	0	1.1	34			MH		
15	06:30	0.00	0.00	230	220.5	0	1.2	34			MH		
16	06:38	8,246.60	7.17	200	191.7	-22	-25.1	27			MH		
17	06:36	1,531.69	0.00	629	619.1	-16	-19.6	29			MH		
18	09:19	0.00	0.00	568	557.8	-15	1.3	32			CS		
19	06:46	0.00	0.00	464	453.6	-1	1.3	32			CG		
20	06:56	0.00	0.00	390	380.3	-1	1.3	33			CG		
21	07:54	0.00	0.00	340	329.5	0	1.3	33			CG		
22	07:56	0.00	0.00	304	294.6	0	1.3	34			CG		
23	08:03	0.00	0.00	278	266.8	-1	1.3	34			CG		
24	07:49	0.00	0.00	256	243.3	-1	1.3	34			CG		
25	08:24	0.00	0.00	234	221.6	-1	1.3	34			LF		
26	07:19	0.00	0.00	215	203.2	-1	1.3	34			CS		
27	07:13	0.00	0.00	195	186.1	-1	1.3	34			CS		
28	08:37	0.00	0.00	170	170.8	0	1.3	34			CG		
29	07:48	0.00	0.00	159	159.2	0	1.3	34			CS		
30	08:43	0.00	0.00	155	148.3	0	1.3	34			CS		
31													

Sunflower (Fort Dodge) #1 09/2020

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	64.20	09/16/2020	7.35	09/16/2020	440.0	09/16/2020	09/17/2020		
2									
3									
4									
5									

No monthly injectate samples required.