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

Submitted 05/07/2020 **Approved** 05/13/2020 **KOLAR Document ID** 1515139

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 1

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	26	0.00	255	246	-0.6	0.6	
Monthly Maximum	770	0.00	630	619	0.0	1.5	
Monthly Minimum	0	0.00	149	140	-18.0	-17.2	
Monthly Total	770						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
619.46	140.01	1.57	-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

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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	07:51	0.00	0.00	328	318.5	0	1.4	34			MH		
2	07:54	0.00	0.00	294	284.8	0	1.3	34			MH		
3	08:18	0.00	0.00	260	251.8	0	1.0	34			CS		
4	08:11	0.00	0.00	230	223.6	0	1.2	35			CG		
5	06:53	0.00	0.00	208	199.9	0	1.3	35			CG		
6	07:58	0.00	0.00	188	177.4	0	1.3	35			CG		
7	07:47	0.00	0.00	168	157.8	0	1.3	35			CG		
8	08:08	0.00	0.00	149	140.2	0	1.2	35			CG		
9	07:57	0.00	0.00	308	298.7	0	1.1	35			CG		
10	08:18	0.00	0.00	270	260.6	0	1.2	35			CS		
11	08:38	0.00	0.00	235	226.1	0	1.5	35			CS		
12	08:14	0.00	0.00	205	196.7	0	1.3	35			CS		
13	07:53	0.00	0.00	181	173.4	0	1.0	35			CS		
14	08:16	0.00	0.00	161	153.1	0	1.2	36			CS		
15	08:07	0.00	0.00	340	329.7	0	1.3	35			CS		
16	08:07	0.00	0.00	291	282.1	0	1.3	35			CS		
17	08:07	0.00	0.00	250	241.9	0	1.1	35			CS		
18	08:31	0.00	0.00	218	208.0	0	1.3	35			DA		
19	08:10	0.00	0.00	191	180.9	0	1.3	36			DA		
20	07:58	0.00	0.00	167	158.1	0	1.2	36			DA		
21	08:04	0.00	0.00	352	342.5	0	1.2	35			DA		
22	06:47	0.00	0.00	312	301.7	0	1.4	35			DA		
23	07:57	0.00	0.00	273	262.0	0	1.3	35			DA		
24	08:06	0.00	0.00	240	228.7	0	1.2	35			DA		
25	08:06	0.00	0.00	211	201.1	0	1.1	35			KK		
26	07:45	0.00	0.00	187	177.7	0	1.2	35			KK		
27	08:25	0.00	0.00	166	157.0	0	1.3	36			KK		
28	08:08	0.00	0.00	355	344.0	0	1.3	35			KK		
29	08:15	0.00	0.00	296	285.5	0	1.1	35			KK		
30	07:46	770.36	0.00	630	619.2	-18	-17.2	32			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	64.40	04/29/2020	7.49	04/29/2020	630.0	04/29/2020	04/30/2020		
2									
3									
4									
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 04/29/2020
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	523.000	mg/l
Chloride	630.000	mg/l
Conductivity	5,270.000	Mmhos
Magnesium	127.000	mg/l
Sodium	520.000	mg/l
Sulfate	1,600.000	mg/l
Total Alkalinity as CaCO3	620.000	mg/l (as CaCO3)
Total Dissolved Solids	4,020.000	mg/l
Total Hardness as CaCO3	650.000	mg/l (as CaCO3)
Total Suspended Solids	ND	mg/l