Facility Well Name Williams (Mitchell) #1 **UIC Permit #** KS-01-159-002 **Month** April **Year** 2021

Submitted 10/21/2021 **Approved** 10/28/2021 **KOLAR Document ID** 1595888

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 2

Barrels per Day Maximum: 20,476

			Annulus Pressure psig min 50		Injection Pressure		
	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Gauge psig	Cont. Record psig	Gauge psig	Cont. Record psig	Amount Added to Seal Pot
Monthly Average	156	0.11	85	80	-4.1	-3.6	0
Monthly Maximum	4,669	3.24	190	179	0.0	-0.4	0
Monthly Minimum	0	0.00	68	68	-7.0	-6.6	0
Monthly Total	4,686						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
109.71	68.00	0.08	-26.87

Comments:

10/18/2021 - LFS - Updated injection volume and rate on Daily; Updated Weekly Sample for Week 2; Sample for Week 3 (4/16/2021 disposal) was missed.

10/21/2021 - LFS - The Maximum ANN Pressure is showing questionable as there were higher pressures on Days 12 and 13 resulting from the annual falloff test. The Minimum ANN Pressure was 68 which matches the minimum daily data. Therefore, I'm unsure why the Min ANN P is questionable.

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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	Meter Reading	
1	10:45	0.00	0.00	68	68.0	-4	-4.2	32	N/A	0	BJ	57,996,800.	
2	09:40	0.00	0.00	70	70.0	-4	-3.9	32	N/A	0	AW	57,996,800.	
3	10:30	0.00	0.00	71	71.0	-4	-3.8	32	N/A	0	AW	57,996,800.	
4	10:17	0.00	0.00	72	72.0	-4	-3.7	32	N/A	0	AW	57,996,800.	
5	09:41	0.00	0.00	71	71.0	-4	-3.5	32	N/A	0	AW	57,996,800.	
6	08:41	0.00	0.00	74	71.0	-6	-3.0	32	N/A	0	BK	57,996,800.	
7	08:20	0.00	0.00	71	68.0	-4	-3.5	32	N/A	0	BK	57,996,800.	
8	08:30	0.00	0.00	71	68.1	-3	-3.5	32	N/A	0	TS	57,996,800.	
9	10:50	0.00	0.00	71	70.9	-5	-3.3	32	N/A	0	TS	57,996,800.	
10	11:00	16.67	0.00	69	68.7	-7	-6.2	32	N/A	0	BJ	57,997,500.	
11	11:10	0.00	0.00	71	70.9	-6	-5.7	32	N/A	0	BJ	57,997,500.	
12	11:14	0.00	0.00	190	179.2	-7	-6.3	31	N/A	0	TS	57,997,500.	
13	07:19	0.00	0.00	150	138.2	-7	-6.6	31	N/A	0	TS	57,997,500.	
14	07:20	0.00	0.00	90	77.0	-7	-6.6	32	N/A	0	TH	57,997,500.	
15	09:32	0.00	0.00	90	78.1	-2	-2.0	32	N/A	0	TH	57,997,500.	
16	10:30	4,669.05	3.24	86	78.0	0	-1.0	31	N/A	0	BK	58,193,600.	
17	08:41	0.00	0.00	86	76.0	0	-0.4	31	N/A	0	BK	58,193,600.	
18	07:56	0.00	0.00	86	75.0	-2	-1.0	31	N/A	0	BK	58,193,600.	
19	09:20	0.00	0.00	90	77.6	-1	-1.5	32	N/A	0	BK	58,193,600.	
20	08:05	0.00	0.00	90	74.8	-2	-2.2	31	N/A	0	TS	58,193,600.	
21	10:20	0.00	0.00	88	76.2	-2	-2.7	31	N/A	0	TS	58,193,600.	
22	10:35	0.00	0.00	77	77.0	-3	-2.8	31	N/A	0	AW	58,193,600.	
23	08:12	0.00	0.00	90	77.2	-3	-2.9	31	N/A	0	TH	58,193,600.	
24	08:41	0.00	0.00	85	76.7	-5	-3.4	31	N/A	0	TH	58,193,600.	
25	08:04	0.00	0.00	80	77.8	-6	-3.4	32	N/A	0	TH	58,193,600.	
26	07:49	0.00	0.00	85	79.7	-6	-3.3	32	N/A	0	TH	58,193,600.	
27	10:30	0.00	0.00	82	81.7	-4	-3.4	32	N/A	0	BJ	58,193,600.	
28	08:30	0.00	0.00	80	79.4	-4	-3.9	32	N/A	0	TS	58,193,600.	
29	09:55	0.00	0.00	79	78.8	-5	-4.3	32	N/A	0	TS	58,193,600.	
30	08:20	0.00	0.00	77	77.0	-5	-4.6	32	N/A	0	AW	58,193,600.	
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Weekly Injectate Samples

Kansas Lab Certificate Number E-10152

Week	**Temperature**		**pH**		**Chloride**				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1									
2	66.20	04/09/2021	6.65	04/09/2021	195,000.0	04/09/2021	05/07/2021		
3									
4									
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 04/09/2021
Kansas Lab Certificate Number E-10152
Lab Name SDK Laboratories (Hutchinson)

These samples shall be representative of injection activity and shall therefore be collected on days of injection.

Constituent	Value	Units
Calcium	1,510.000	mg/l
Conductivity	570.000	Mmhos
Iron	32.000	mg/l
Magnesium	156.000	mg/l
Sulfate	4,130.000	mg/l
Total Alkalinity as CaCO3	130.000	mg/l
Total Dissolved Solids	305,800.000	mg/l
Total Hardness as CaCO3	4,413.000	mg/l