Facility Well Name Williams (Mitchell) #2 **UIC Permit #** KS-01-159-008 **Month** July **Year** 2021

Submitted 10/21/2021 **Approved** 10/25/2021 **KOLAR Document ID** 1595901

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 28

Barrels per Day Maximum: 47,619

			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	6,352	4.41	87	86	-23.2	-24.6	0
Monthly Maximum	21,305	14.79	100	100	-20.0	-23.0	0
Monthly Minimum	0	0.00	78	76	-28.0	-27.4	0
Monthly Total	196,905						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
103.06	75.98	-11.67	-27.53

Comments:

10/18/2021 - LFS - Updated injection volume for 7/1/2021. Samples were missed for Weeks 2 and 4. Samples are typically scheduled on Fridays. For Week 5, flow ceased on Thursday, therefore no sample was taken.

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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	06:15	10,157.14	7.05	78	78.7	-23	-23.7	32	N/A	0	TH	426,149,20(	
2	10:15	12,145.24	8.43	80	80.0	-25	-23.7	33	N/A	0	AW	426,659,30(	
3	01:15	11,526.19	8.00	81	81.0	-20	-23.6	32	N/A	0	AW	427,143,40(	
4	11:15	9,766.67	6.79	80	80.0	-21	-23.7	32	N/A	0	AW	427,553,60(	
5	10:05	9,880.95	6.86	80	80.0	-20	-23.7	32	N/A	0	AW	427,968,60(	
6	08:03	9,838.10	6.83	78	78.0	-22	-23.7	32	N/A	0	BK	428,381,80(	
7	08:56	11,264.29	7.83	79	80.0	-22	-23.7	32	N/A	0	BK	428,854,90(	
8	10:42	10,654.76	7.40	82	83.0	-22	-25.0	34	N/A	0	BK	429,302,40(	
9	06:09	138.10	0.10	96	88.7	-24	-24.3	32	N/A	0	TH	429,308,20(	
10	07:18	7,442.86	5.17	80	78.7	-23	-23.7	32	N/A	0	TH	429,620,80(	
11	07:02	0.00	0.00	78	77.6	-24	-23.8	33	N/A	0	TH	429,620,80(	
12	06:36	21,304.76	14.79	78	76.3	-24	-23.9	33	N/A	0	TH	430,515,60(	
13	10:18	12,492.86	8.67	80	80.5	-22	-23.9	34	N/A	0	TS	431,040,30(	
14	13:33	12,295.24	8.55	88	82.8	-20	-23.8	33	N/A	0	TS	431,556,70(	
15	10:05	9,514.29	6.62	80	79.0	-20	-23.6	32	N/A	0	TS	431,956,30(	
16	08:33	10,980.95	7.62	80	78.0	-22	-23.0	32	N/A	0	BK	432,417,50(	
17	01:09	14,130.95	9.81	90	82.0	-22	-24.0	33	N/A	0	BK	433,011,00(	
18	09:11	9,985.71	6.93	80	79.0	-22	-24.0	32	N/A	0	BK	433,430,40(	
19	08:19	11,571.43	8.05	78	78.0	-22	-24.0	32	N/A	0	BK	433,916,40(	
20	09:30	235.71	0.17	90	89.6	-25	-24.8	38	N/A	0	BJ	433,926,30(	
21	07:35	178.57	0.12	90	89.4	-26	-26.0	39	N/A	0	BJ	433,933,80(	
22	10:30	321.43	0.21	93	93.0	-26	-25.5	39	N/A	0	BJ	433,947,30(	
23	10:20	173.81	0.12	93	90.7	-24	-25.4	38	N/A	0	TS	433,954,60(	
24	10:16	145.24	0.10	94	93.9	-22	-25.4	39	N/A	0	TS	433,960,70(	
25	13:05	183.33	0.12	92	92.5	-22	-25.4	39	N/A	0	TS	433,968,40(	
26	07:35	2.38	0.00	95	89.4	-23	-25.1	39	N/A	0	TS	433,968,50(	
27	12:15	197.62	0.14	98	98.0	-25	-25.3	41	N/A	0	AW	433,976,80(	
28	13:14	190.48	0.14	100	100.0	-25	-26.1	41	N/A	0	AW	433,984,80(	
29	09:44	185.71	0.12	98	97.2	-25	-26.5	41	N/A	0	TS	433,992,60(	
30	09:15	0.00	0.00	99	98.4	-27	-27.4	41	N/A	0	BJ	433,992,60(	
31	10:20	0.00	0.00	100	99.2	-28	-27.4	41	N/A	0	BJ	433,992,60(	

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Weekly Injectate Samples

Kansas Lab Certificate Number

Week	Temperature		pH		Chloride				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1		07/02/2021	6.12	07/02/2021	136,200.0	07/02/2021	08/09/2021		
2									
3		07/16/2021	6.67	07/16/2021	61,900.0	07/16/2021	08/09/2021		
4									
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 07/01/2021
Kansas Lab Certificate Number
Lab Name

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

Constituent	Value	Units
Calcium	840.000	mg/l
Conductivity	335,000.000	Mmhos
Iron	108.000	mg/l
Magnesium	143.000	mg/l
Sulfate	3,500.000	mg/l
Total Alkalinity as CaCO3	34.000	mg/l
Total Dissolved Solids	197,300.000	mg/l
Total Hardness as CaCO3	2,686.000	mg/l