Facility Well Name Williams (Mitchell) #2 **UIC Permit #** KS-01-159-008 **Month** October **Year** 2022

Submitted 11/18/2022 **Approved** 11/30/2022 **KOLAR Document ID** 1673901

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 23

Barrels per Day Maximum: 29,762

			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	7,828	5.44	101	96	-22.5	-24.2	0
Monthly Maximum	14,400	10.00	119	110	-20.0	-23.5	0
Monthly Minimum	0	0.00	88	87	-25.0	-25.3	0
Monthly Total	242,667						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
110.15	85.75	-17.62	-25.67

Comments:

Williams (Mitchell) #2 10/2022

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	09:15	12,645.24	8.79	94	89.0	-22	-23.7	31	N/A	0	BK	614,226,60(	
2	08:42	12,500.00	8.69	96	87.0	-22	-24.3	31	N/A	0	BK	614,751,60(	
3	08:38	12,769.05	8.86	96	87.0	-22	-23.9	31	N/A	0	BK	615,287,90(	
4	06:18	11,564.29	8.02	94	87.2	-22	-23.7	31	N/A	0	TH	615,773,60(	
5	07:26	13,330.95	9.26	90	88.6	-24	-23.7	31	N/A	0	TH	616,333,50(	
6	06:50	12,397.62	8.62	92	86.6	-24	-23.8	30	N/A	0	TH	616,854,20(	
7	09:15	14,014.29	9.74	97	87.2	-22	-24.0	31	N/A	0	DS	617,442,80(	
8	08:30	12,409.52	8.62	97	87.0	-22	-24.1	31	N/A	0	DS	617,964,00(	
9	10:25	13,709.52	9.52	98	91.2	-21	-23.8	31	N/A	0	DS	618,539,80(	
10	07:45	11,411.90	7.93	98	88.1	-21	-23.8	31	N/A	0	DS	619,019,10(	
11	08:21	13,126.19	9.12	98	90.7	-21	-23.5	31	N/A	0	TS	619,570,40(	
12	09:06	13,257.14	9.21	96	89.0	-22	-23.6	30	N/A	0	TS	620,127,20(	
13	11:48	14,330.95	9.95	97	91.5	-20	-24.0	30	N/A	0	TS	620,729,10(	
14	08:48	11,276.19	7.83	96	88.2	-23	-23.7	31	N/A	0	TH	621,202,70(	
15	11:28	14,400.00	10.00	95	93.2	-23	-23.6	31	N/A	0	TH	621,807,50(	
16	09:40	12,178.57	8.45	96	90.4	-24	-23.9	31	N/A	0	TH	622,319,00(	
17	10:06	12,323.81	8.55	96	92.2	-23	-25.3	31	N/A	0	TH	622,836,60(	
18	09:15	8,745.24	6.07	88	88.0	-24	-24.0	30	N/A	0	BJ	623,203,90(	
19	10:45	14,290.48	9.93	92	92.0	-24	-24.0	30	N/A	0	BJ	623,804,10(	
20	09:45	1,680.95	1.17	104	98.0	-25	-25.0	33	N/A	0	BJ	623,874,70(	
21	12:35	202.38	0.14	110	104.9	-22	-24.1	33	N/A	0	TS	623,883,20(	
22	12:05	95.24	0.07	110	104.6	-20	-24.0	33	N/A	0	TS	623,887,20(	
23	10:50	7.14	0.00	119	110.1	-20	-24.0	37	N/A	0	TS	623,887,50(	
24	13:25	0.00	0.00	115	105.2	-20	-24.5	38	N/A	0	TS	623,887,50(	
25	09:19	0.00	0.00	110	103.0	-22	-24.7	38	N/A	0	BK	623,887,50(	
26	08:15	0.00	0.00	110	103.7	-22	-25.0	38	N/A	0	BK	623,887,50(	
27	12:20	0.00	0.00	115	110.0	-22	-24.9	39	N/A	0	BK	623,887,50(	
28	10:45	0.00	0.00	108	108.0	-25	-25.0	39	N/A	0	BJ	623,887,50(	
29	09:30	0.00	0.00	107	107.0	-25	-25.0	39	N/A	0	BJ	623,887,50(	
30	08:30	0.00	0.00	108	108.0	-25	-25.0	39	N/A	0	BJ	623,887,50(	
31	10:55	0.00	0.00	110	110.0	-25	-25.0	39	N/A	0	BJ	623,887,50(	

Williams (Mitchell) #2 10/2022

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	63.40	10/05/2022	6.60	10/05/2022	122,500.0	10/05/2022	10/13/2022		
2	62.80	10/14/2022	6.68	10/14/2022	121,200.0	10/14/2022	11/14/2022		
3	72.00	10/21/2022	6.84	10/21/2022	10,700.0	10/21/2022	11/14/2022		
4	63.40	10/28/2022	7.20	10/28/2022	12,500.0	10/28/2022	11/14/2022		
5									

No monthly injectate samples required.

Williams (Mitchell) #2 10/2022

Quarterly Injectate Samples

Quarter 4
Date Sample Collected 10/05/2022
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	1,320.000	mg/l
Conductivity	338.200	Mmhos
Iron	16.800	mg/l
Magnesium	91.500	mg/l
Sulfate	3,550.000	mg/l
Total Alkalinity as CaCO3	244.000	mg/l
Total Dissolved Solids	192,000.000	mg/l
Total Hardness as CaCO3	3,673.000	mg/l