Facility Well Name Williams (Mitchell) #2 **UIC Permit #** KS-01-159-008 **Month** May **Year** 2019

Submitted 06/25/2019 **Approved** 07/05/2019 **KOLAR Document ID** 1464154

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

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	15,401	3.67	84	84	-22.7	-22.6	0
Monthly Maximum	19,374	16.36	100	100	-5.0	-5.0	0
Monthly Minimum	0	0.00	79	79	-25.0	-23.8	0
Monthly Total	477,436						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
100.68	73.17	-1.37	-25.52

Comments:

Williams (Mitchell) #2 05/2019

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	07:30	0.00	0.00	81	81.4	-5	-5.0	46	N/A	0	LB		
2	08:00	13,130.95	0.00	80	80.6	-24	-23.3	34	N/A	0	CS		
3	07:40	16,883.33	0.00	82	80.9	-25	-23.2	34	N/A	0	CS		
4	09:40	19,373.81	0.00	80	81.0	-25	-22.9	34	N/A	0	CS		
5	09:15	3,045.24	0.00	100	100.0	-25	-23.8	41	N/A	0	CS		
6	09:30	16,738.10	0.00	83	83.0	-23	-23.0	33	N/A	0	DF		
7	08:30	14,880.95	0.00	81	81.0	-23	-23.0	32	N/A	0	DF		
8	09:30	17,709.52	0.00	82	82.0	-23	-23.0	33	N/A	0	DF		
9	07:40	15,807.14	0.00	79	79.0	-23	-23.2	33	N/A	0	LB		
10	07:30	18,052.38	0.00	80	79.5	-23	-23.4	33	N/A	0	LB		
11	08:05	18,571.43	0.00	81	80.9	-23	-23.2	33	N/A	0	LB		
12	07:55	17,778.57	0.00	81	80.9	-23	-23.1	33	N/A	0	LB		
13	08:05	17,842.86	0.00	82	82.1	-23	-23.2	33	N/A	0	BJ		
14	07:45	17,397.62	0.00	84	83.7	-23	-23.1	33	N/A	0	BJ		
15	07:55	17,419.05	0.00	84	83.9	-23	-23.2	33	N/A	0	BJ		
16	08:50	18,057.14	0.00	85	85.0	-23	-23.0	32	N/A	0	DF		
17	08:10	16,671.43	0.00	85	85.0	-23	-23.0	32	N/A	0	DF		
18	08:20	17,078.57	0.00	83	83.0	-23	-23.0	32	N/A	0	DF		
19	08:00	16,619.05	0.00	81	81.0	-23	-23.0	32	N/A	0	DF		
20	08:30	17,035.71	0.00	80	80.9	-24	-23.4	32	N/A	0	CS		
21	10:15	17,902.38	0.00	85	83.8	-25	-22.8	32	N/A	0	CS		
22	07:15	14,383.33	0.00	80	81.0	-23	-23.1	32	N/A	0	CS		
23	10:00	16,138.10	9.86	85	85.0	-23	-23.3	33	N/A	0	BJ		
24	10:15	16,138.10	13.57	85	85.5	-23	-23.3	33	N/A	0	BJ		
25	10:40	16,261.90	7.79	86	86.0	-23	-23.2	33	N/A	0	BJ		
26	01:55	8,300.00	11.10	89	88.9	-23	-23.1	34	N/A	0	BJ		
27	08:19	12,747.62	13.83	85	85.4	-23	-23.4	33	N/A	0	LB		
28	07:40	16,333.33	16.36	87	86.5	-23	-22.9	33	N/A	0	LB		
29	07:40	16,783.33	15.90	84	84.1	-23	-23.1	32	N/A	0	LB		
30	08:00	15,933.33	12.57	85	83.2	-23	-23.1	32	N/A	0	CS		
31	07:30	16,421.43	12.90	85	84.7	-23	-23.3	33	N/A	0	CS		

Williams (Mitchell) #2 05/2019

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	72.10	06/04/2019	6.75	06/04/2019	175,000.0	05/01/2019	06/06/2019		
2	72.10	06/04/2019	6.91	06/04/2019	76,000.0	05/08/2019	06/06/2019		
3	72.14	06/04/2019	6.81	06/04/2019	81,000.0	05/15/2019	06/06/2019		
4	72.14	06/04/2019	6.32	06/04/2019	110,000.0	05/22/2019	06/06/2019		
5	72.10	06/04/2019	6.42	06/04/2019	200,000.0	05/28/2019	06/06/2019		

No monthly injectate samples required.