Facility Well Name Williams (Mitchell) #1 **UIC Permit #** KS-01-159-002 **Month** January **Year** 2019

Submitted 02/25/2019 **Approved** 03/10/2019 **KOLAR Document ID** 1447767

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 28

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	9,997	6.95	84	84	-23.1	-25.2	1
Monthly Maximum	20,181	14.02	94	94	0.0	-0.1	30
Monthly Minimum	0	0.00	75	75	-29.0	-82.0	0
Monthly Total	309,910						30

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig

Comments:

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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	09:45	9,097.62	6.31	75	75.0	-25	-25.0	32	N/A	0	DF		
2	08:40	7,214.29	5.00	75	75.0	-28	-28.0	32	N/A	0	DF		
3	09:10	15,354.76	10.67	84	83.9	-26	-28.5	36	N/A	0	BJ		
4	08:40	17,259.52	11.98	85	84.7	-29	-29.3	36	N/A	0	BJ		
5	10:15	15,109.52	10.50	83	83.3	-28	-27.7	37	N/A	0	BJ		
6	09:00	13,654.76	9.48	81	80.8	-28	-27.5	33	N/A	0	BJ		
7	09:30	16,104.76	11.19	80	80.0	-28	-27.6	33	N/A	0	LB		
8	09:30	8,014.29	5.57	88	88.4	-28	-27.9	37	N/A	0	LB		
9	08:30	0.00	0.00	87	86.8	-28	-28.1	37	N/A	0	LB		
10	09:30	0.00	0.00	92	90.5	-26	-27.6	39	N/A	0	CS		
11	08:40	19,140.48	13.29	94	93.9	-27	-27.6	36	N/A	0	CS		
12	08:15	20,180.95	14.02	82	82.5	-28	-27.8	36	N/A	0	CS		
13	09:00	16,914.29	11.74	77	75.8	-27	-28.3	33	N/A	0	CS		
14	08:20	16,328.57	11.33	77	77.0	-28	-28.0	32	N/A	0	DF		
15	13:00	1,238.10	0.86	88	88.0	-28	-82.0	37	Diesel	30	DF		
16	10:20	13,704.76	9.52	85	85.0	-28	-28.0	47	N/A	0	DF		
17	08:20	14,733.33	10.24	86	85.8	-28	-28.0	48	N/A	0	LB		
18	08:15	15,473.81	10.74	87	87.0	-27	-27.4	48	N/A	0	LB		
19	09:30	17,230.95	11.98	80	80.2	-28	-27.5	48	N/A	0	LB		
20	09:10	12,750.00	8.86	81	80.5	-29	-29.4	44	N/A	0	LB		
21	09:10	8,228.57	5.79	81	80.9	-28	-28.2	44	N/A	0	BJ		
22	10:45	12,166.67	8.45	88	88.0	-27	-27.0	47	N/A	0	BJ		
23	11:00	0.00	0.00	94	93.9	0	-0.1	50	N/A	0	BJ		
24	13:40	8,154.76	5.67	81	81.0	-12	-12.0	43	N/A	0	DF		
25	10:50	5,066.67	3.52	90	90.0	-14	-14.0	45	N/A	0	DF		
26	09:05	5,173.81	3.60	85	85.0	-14	-14.0	44	N/A	0	DF		
27	09:10	5,388.10	3.74	85	85.0	-14	-14.0	44	N/A	0	DF		
28	08:50	5,009.52	3.48	85	84.9	-13	-14.1	44	N/A	0	CS		
29	09:00	4,071.43	2.83	84	82.2	-13	-17.7	44	N/A	0	CS		
30	09:20	3,495.24	2.74	84	81.3	-14	-14.8	43	N/A	0	CS		
31	11:00	3,650.00	2.52	84	84.1	-15	-14.8	44	N/A	0	BJ		

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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	49.60	01/04/2019	7.04	02/05/2019	72,500.0	01/04/2019	02/05/2019		
2	60.40	01/11/2019	6.98	02/05/2019	82,500.0	01/11/2019	02/05/2019		
3	54.80	01/18/2019	7.15	02/05/2019	95,000.0	01/18/2019	02/05/2019		
4	43.20	01/23/2019	7.18	02/05/2019	70,000.0	01/25/2019	02/05/2019		
5	67.90	01/30/2019	7.32	02/05/2019	90,000.0	01/30/2019	02/05/2019		

No monthly injectate samples required.