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

Submitted 05/17/2019 **Approved** 06/18/2019 **KOLAR Document ID** 1460599

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 3

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	676	0.47	87	87	-21.2	-21.1	0
Monthly Maximum	17,557	12.19	110	108	-1.0	-0.8	0
Monthly Minimum	0	0.00	75	77	-27.0	-27.3	0
Monthly Total	20,281						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
110.10	76.62	0.74	-27.38

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	Meter Reading	
1	08:50	0.00	0.00	84	84.0	-27	-26.8	47		0	LB		
2	08:15	0.00	0.00	84	84.1	-26	-26.7	47		0	LB		
3	08:11	0.00	0.00	86	85.9	-27	-26.5	47		0	LB		
4	08:10	0.00	0.00	90	87.9	-25	-26.4	47		0	CS		
5	09:00	0.00	0.00	87	90.0	-27	-26.5	47		0	CS		
6	07:10	0.00	0.00	90	88.6	-25	-26.2	47		0	CS		
7	09:14	0.00	0.00	85	87.9	-26	-26.3	47		0	CS		
8	08:15	0.00	0.00	87	87.0	-26	-26.0	47		0	DF		
9	07:30	0.00	0.00	88	88.0	-27	-27.0	47		0	DF		
10	08:20	0.00	0.00	90	90.0	-26	-26.0	47		0	DF		
11	07:50	0.00	0.00	83	82.9	-27	-26.8	46		0	LB		
12	07:00	0.00	0.00	81	81.3	-27	-27.2	46		0	LB		
13	09:00	0.00	0.00	83	83.3	-27	-27.3	47		0	LB		
14	08:15	0.00	0.00	83	83.1	-27	-27.2	46		0	LB		
15	09:30	0.00	0.00	88	88.2	-27	-26.8	47		0	BJ		
16	01:15	0.00	0.00	93	93.5	-26	-26.3	48		0	BJ		
17	08:45	0.00	0.00	90	90.1	-26	-26.6	47		0	BJ		
18	08:15	0.00	0.00	86	86.0	-27	-27.0	46		0	DF		
19	08:15	0.00	0.00	85	85.0	-27	-27.0	46		0	DF		
20	08:30	0.00	0.00	87	87.0	-27	-27.0	46		0	DF		
21	08:05	0.00	0.00	89	89.0	-27	-27.0	46		0	DF		
22	08:45	0.00	0.00	88	88.6	-26	-26.9	47		0	CS		
23	08:30	17,557.14	12.19	75	77.3	-25	-23.5	33		0	CS		
24	09:40	0.00	0.00	100	100.0	-1	-0.8	43		0	CS		
25	09:00	2,692.86	1.88	105	104.7	-5	-2.5	46		0	BJ		
26	10:50	30.95	0.02	110	108.3	-5	-3.3	46		0	BJ		
27	08:45	0.00	0.00	80	79.8	-3	-3.4	47		0	BJ		
28	06:45	0.00	0.00	79	78.5	-4	-4.1	47		0	BJ		
29	08:16	0.00	0.00	82	82.2	-5	-4.5	47		0	LB		
30	09:00	0.00	0.00	81	80.6	-5	-4.8	47		0	LB		
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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	69.80	05/13/2019	6.20	05/13/2019	222,400.0	04/22/2019	05/14/2019		
2									
3									
4									
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 04/22/2019
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	1,580.000	mg/l
Conductivity	580,000.000	Mmhos
Iron	13.000	mg/l
Magnesium	484.000	mg/l
Sulfate	3,130.000	mg/l
Total Alkalinity as CaCO3	80.000	mg/l
Total Dissolved Solids	316,600.000	mg/l
Total Hardness as CaCO3	5,938.000	mg/l