Facility Well Name Williams (Conway West) #1 **UIC Permit #** KS-01-113-001 **Month** May **Year** 2019

Submitted 06/25/2019 **Approved** 07/05/2019 **KOLAR Document ID** 1464204

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 11

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	7,288	5.11	76	76	-4.5	-4.5	0
Monthly Maximum	26,721	18.33	81	81	1.0	1.0	0
Monthly Minimum	0	0.00	72	72	-25.0	-23.7	0
Monthly Total	225,924						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
108.90	68.83	1.51	-27.32

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	02:00	0.00	0.00	75	75.8	-1	-0.5	42	N/A	0	LB		
2	09:20	0.00	0.00	76	74.1	0	-0.7	43	N/A	0	CS		
3	09:20	0.00	0.00	75	74.8	0	-0.5	43	N/A	0	CS		
4	02:00	0.00	0.00	80	78.6	0	-0.3	43	N/A	0	CS		
5	07:00	0.00	0.00	75	74.8	0	-0.3	43	N/A	0	CS		
6	13:20	0.00	0.00	80	80.0	0	0.0	43	N/A	0	DF		
7	10:45	0.00	0.00	76	76.0	0	0.0	42	N/A	0	DF		
8	13:50	0.00	0.00	79	79.0	0	0.0	43	N/A	0	DF		
9	10:30	0.00	0.00	72	72.3	0	-0.3	43	N/A	0	LB		
10	10:30	0.00	0.00	74	74.1	0	-0.2	43	N/A	0	LB		
11	11:15	0.00	0.00	75	75.3	0	0.1	43	N/A	0	LB		
12	09:40	0.00	0.00	75	74.9	0	0.2	43	N/A	0	LB		
13	11:20	0.00	0.00	77	77.3	0	0.4	43	N/A	0	BJ		
14	10:25	0.00	0.00	78	78.3	0	0.5	43	N/A	0	BJ		
15	09:45	0.00	0.00	78	78.1	0	0.5	43	N/A	0	BJ		
16	12:55	0.00	0.00	81	81.0	1	1.0	43	N/A	0	DF		
17	13:40	0.00	0.00	80	80.0	1	1.0	43	N/A	0	DF		
18	11:45	0.00	0.00	76	76.0	1	1.0	43	N/A	0	DF		
19	10:30	0.00	0.00	75	75.0	0	0.0	42	N/A	0	DF		
20	02:30	0.00	0.00	75	72.9	0	-0.4	43	N/A	0	CS		
21	10:00	38.10	18.33	75	74.4	-25	-23.7	42	N/A	0	CS		
22	09:10	18,678.57	14.29	75	72.6	-15	-13.7	38	N/A	0	CS		
23	08:30	22,211.90	14.29	73	72.8	-13	-13.2	38	N/A	0	BJ		
24	08:45	23,126.19	14.29	73	73.4	-4	-4.2	37	N/A	0	BJ		
25	09:30	23,783.33	14.29	74	74.5	-15	-15.3	38	N/A	0	BJ		
26	07:20	21,107.14	14.29	73	72.9	-16	-16.1	37	N/A	0	BJ		
27	11:20	26,292.86	13.10	75	75.4	-7	-7.2	37	N/A	0	LB		
28	10:30	22,278.57	14.29	74	73.8	-15	-15.2	36	N/A	0	LB		
29	10:20	22,564.29	13.10	77	76.9	-9	-9.1	39	N/A	0	LB		
30	01:00	26,721.43	14.29	78	77.5	-10	-10.4	38	N/A	0	CS		
31	09:40	19,121.43	13.81	77	75.5	-13	-12.7	38	N/A	0	CS		

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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									
2									
3									
4	72.14	06/04/2019	6.65	06/04/2019	209,900.0	05/21/2019	06/06/2019		
5	72.14	06/04/2019	6.83	06/04/2019	187,400.0	05/28/2019	06/06/2019		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 05/21/2019
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	1,320.000	mg/l
Conductivity	505,000.000	Mmhos
Iron	3.040	mg/l
Magnesium	432.000	mg/l
Sulfate	2,940.000	mg/l
Total Alkalinity as CaCO3	106.000	mg/l
Total Dissolved Solids	280,600.000	mg/l
Total Hardness as CaCO3	5,075.000	mg/l