Facility Well Name ONEOK (Bushton) #4 **UIC Permit #** KS-01-053-003 **Month** August **Year** 2020

Submitted 09/21/2020 **Approved** 09/21/2020 **KOLAR Document ID** 1530537

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 30,952

	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Annulus Pressure psig min 60 Gauge psig	Annulus Pressure Cont. Record psig	Injection Pressure Gauge psig	Injection Pressure Cont. Record psig	Amount Added to Seal Pot
Monthly Average	3,926	2.73	77	76	-24.5	-24.7	0
Monthly Maximum	5,510	3.83	79	78	-19.0	-15.8	0
Monthly Minimum	0	0.00	74	74	-29.0	-29.3	0
Monthly Total	121,710						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
83.95	73.99	-3.52	-45.00

Comments:

8.3.20: Injection pressure gauge broken. Repaired. The minimum injection pressure data submitted in the report has been verified. The minor differential is due to brief seconds of delay in the priorities on the communications system.

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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	06:25	4,293.52	2.98	76	75.3	-29	-28.8	15		0	LS		
2	06:30	4,076.71	2.83	76	75.3	-29	-28.3	15		0	LS		
3	05:54	4,262.10	2.95	75	74.7	-25	-15.8	15		0	LS		
4	08:15	5,173.26	3.60	75	75.1	-20	-21.3	15		0	LS		
5	06:25	1,849.93	1.29	76	75.6	-27	-27.8	15		0	LS		
6	06:45	0.05	0.00	78	77.7	-27	-27.7	15		0	JE		
7	06:06	3,872.88	2.69	78	77.1	-21	-20.6	15		0	JE		
8	05:38	5,425.14	3.76	78	77.1	-27	-27.8	15		0	JE		
9	06:15	5,164.50	3.60	78	77.6	-27	-28.2	15		0	JE		
10	06:11	5,074.02	3.52	78	77.7	-25	-24.2	15		0	JE		
11	06:30	5,069.07	3.52	75	75.4	-27	-28.1	15		0	JE		
12	06:07	5,141.45	3.57	77	76.2	-27	-28.4	15		0	JE		
13	05:52	5,079.79	3.52	77	77.0	-28	-28.4	15		0	JI		
14	06:10	5,298.90	3.69	76	75.4	-21	-21.0	15		0	JI		
15	06:38	5,353.71	3.71	75	75.3	-19	-20.4	15		0	JI		
16	06:07	5,260.29	3.64	75	75.1	-27	-27.9	15		0	JI		
17	05:59	5,433.45	3.76	74	74.1	-27	-28.2	15		0	JI		
18	06:03	5,509.79	3.83	77	76.2	-19	-20.8	15		0	JI		
19	05:55	5,245.50	3.64	78	77.5	-19	-20.2	15		0	JI		
20	05:45	5,437.29	3.79	77	77.1	-19	-20.4	15		0	CK		
21	05:35	5,196.69	3.62	78	78.3	-20	-21.1	15		0	CK		
22	06:17	5,112.17	3.55	77	76.9	-21	-21.4	15		0	CK		
23	06:28	5,285.71	3.67	77	77.2	-19	-20.7	15		0	CK		
24	05:39	5,337.00	3.71	77	76.7	-20	-21.6	15		0	CK		
25	06:13	33.21	0.02	78	77.2	-28	-29.3	15		0	CK		
26	05:42	134.10	0.10	77	76.9	-27	-28.9	15		0	CK		
27	06:01	5,177.12	3.60	77	76.5	-27	-25.8	15		0	LS		
28	06:01	1,435.19	1.00	77	76.5	-27	-25.8	15		0	LS		
29	05:44	694.88	0.48	77	75.7	-27	-26.1	15		0	LS		
30	14:15	657.48	0.45	79	78.3	-27	-25.8	15		0	LS		
31	06:04	625.05	0.43	78	77.1	-27	-25.8	15		0	BL		

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Weekly Injectate Samples

Kansas Lab Certificate Number E-10146

Week	**Temperature**		**pH**		**Chloride**				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	74.30	08/02/2020	6.86	08/02/2020	182,000.0	08/02/2020	08/12/2020		
2	76.30	08/09/2020	6.73	08/09/2020	199,000.0	08/09/2020	08/21/2020		
3	72.40	08/16/2020	6.83	08/16/2020	183,000.0	08/16/2020	08/27/2020		
4	71.20	08/23/2020	7.11	08/23/2020	174,000.0	08/23/2020	09/08/2020		
5	69.70	08/30/2020	6.92	08/30/2020	28,400.0	08/30/2020	09/16/2020		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 08/14/2020
Kansas Lab Certificate Number E-10146
Lab Name Pace Analytical-Salina

These samples shall be representative of injection activity and shall therefore be collected on days of injection.

Constituent	Value	Units
Benzene	0.006	mg/l
Calcium	1,910.000	mg/l
Conductivity	235,000.000	Mmhos
Iron	ND	mg/l
Magnesium	221.000	mg/l
Sulfate	4,240.000	mg/l
Total Alkalinity as CaCO3	71.000	mg/l
Total Dissolved Solids	243,000.000	mg/l
Total Hardness as CaCO3	5,670.000	mg/l