Facility Well Name ONEOK (Hutchinson) #2 **UIC Permit #** KS-01-155-002 **Month** February **Year** 2019

Submitted 03/27/2019 **Approved** 04/09/2019 **KOLAR Document ID** 1455340

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 17

Barrels per Day Maximum: 21,000

			Annulus Pressure psig min 60		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	279	0.19	83	83	-14.3	-14.4	0
Monthly Maximum	1,029	0.71	97	97	0.0	0.0	0
Monthly Minimum	0	0.00	75	76	-27.0	-27.6	0
Monthly Total	7,807						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
98.50	74.40	4.20	-28.40

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	18:37	209.52	0.14	92	92.3	0	0.0	16		0	TR		
2	17:25	0.00	0.00	97	97.3	0	0.0	16		0	TR		
3	17:50	0.00	0.00	97	96.4	0	0.0	16		0	TR		
4	17:45	0.00	0.00	86	85.8	0	0.0	16		0	TR		
5	18:17	0.00	0.00	81	81.4	0	0.0	16		0	TR		
6	17:45	0.00	0.00	80	80.3	0	0.0	16		0	TR		
7	19:00	0.00	0.00	80	80.8	0	-0.1	16		0	CS		
8	22:30	0.00	0.00	82	83.1	0	0.0	16		0	CS		
9	19:00	0.00	0.00	85	85.5	0	0.0	16		0	CS		
10	18:24	0.00	0.00	86	86.5	0	0.0	16		0	EL		
11	22:25	0.00	0.00	83	83.3	0	-0.2	16		0	CS		
12	18:10	0.00	0.00	83	84.8	0	0.0	16		0	CS		
13	18:00	133.33	0.10	75	75.7	-26	-25.3	15		0	CS		
14	19:19	314.29	0.21	83	82.5	-27	-26.8	15		0	ZS		
15	19:03	566.67	0.40	78	79.3	-27	-27.2	15		0	ZS		
16	18:25	564.29	0.38	80	81.0	-26	-26.9	15		0	JS		
17	19:00	576.19	0.40	79	79.7	-27	-26.9	15		0	JS		
18	18:35	507.14	0.36	82	81.8	-27	-27.6	15		0	JS		
19	23:00	650.00	0.45	80	80.5	-27	-27.1	15		0	ZS		
20	04:00	445.24	0.31	79	80.2	0	0.0	15		0	JS		
21	18:28	235.71	0.17	84	84.0	-27	-27.0	15		0	JS		
22	18:26	1,028.57	0.71	82	82.0	-26	-26.5	15		0	ZS		
23	18:27	271.43	0.19	78	77.4	-25	-26.4	15		0	JS		
24	18:15	200.00	0.14	81	80.8	-27	-27.5	15		0	TR		
25	18:05	428.57	0.31	83	83.5	-26	-27.3	15		0	TR		
26	19:02	433.33	0.31	80	81.0	-27	-27.4	15		0	TR		
27	19:10	540.48	0.38	79	79.9	-27	-27.2	15		0	TR		
28	18:30	702.38	0.48	82	83.0	-27	-26.8	15		0	JS		
29													
30													
31													

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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	62.50	01/27/2019	7.56	01/27/2019	7,100.0	01/27/2019	02/18/2019		
2									
3	70.50	02/13/2019	6.54	02/13/2019	1,200.0	02/13/2019	02/18/2019		
4	60.40	02/17/2019	7.65	02/17/2019	3,000.0	02/17/2019	03/06/2019		
5	55.40	02/24/2019	5.80	02/24/2019	4,900.0	02/24/2019	03/06/2019		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 01/07/2019
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	ND	mg/l
Calcium	402.000	mg/l
Conductivity	19,300.000	Mmhos
Iron	1.700	mg/l
Magnesium	97.000	mg/l
Sulfate	1,840.000	mg/l
Total Alkalinity as CaCO3	180.000	mg/l
Total Dissolved Solids	11,800.000	mg/l
Total Hardness as CaCO3	1,401.000	mg/l