Facility Well Name ONEOK (Hutchinson) #2 **UIC Permit #** KS-01-155-002 **Month** January **Year** 2021

Submitted 02/26/2021 **Approved** 02/26/2021 **KOLAR Document ID** 1552531

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 21,000

	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	1,611	1.12	84	84	-27.1	-26.6	0
Monthly Maximum	2,133	1.48	88	88	-25.0	-24.8	0
Monthly Minimum	938	0.64	78	79	-28.0	-27.6	0
Monthly Total	49,936						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
90.90	77.10	-1.70	-27.60

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	18:52	938.10	0.64	83	82.7	-27	-26.5	15		0	RR		
2	18:32	1,104.76	0.76	84	84.2	-27	-26.7	15		0	RR		
3	19:32	1,369.05	0.95	85	84.7	-27	-26.4	15		0	RR		
4	18:33	1,526.19	1.07	86	86.3	-27	-26.7	15		0	RR		
5	18:25	1,628.57	1.14	86	86.5	-27	-26.6	15		0	RR		
6	19:01	1,816.67	1.26	85	84.7	-27	-26.9	15		0	RR		
7	18:19	1,842.86	1.29	83	83.7	-28	-26.9	15		0	EL		
8	18:52	1,942.86	1.36	84	83.5	-27	-27.6	15		0	EL		
9	19:01	1,964.29	1.36	81	82.8	-28	-26.8	15		0	EL		
10	18:08	1,902.38	1.31	84	84.3	-28	-26.9	15		0	EL		
11	18:17	2,133.33	1.48	85	85.2	-28	-26.9	15		0	EL		
12	18:05	1,769.05	1.24	86	86.8	-27	-26.6	15		0	EL		
13	19:13	1,954.76	1.36	88	88.2	-28	-26.4	15		0	EL		
14	19:12	1,840.48	1.29	85	85.4	-28	-26.2	15		0	SN		
15	18:24	1,738.10	1.21	82	83.2	-27	-26.5	15		0	SN		
16	19:08	1,797.62	1.24	85	85.1	-27	-26.6	15		0	SN		
17	18:47	1,659.52	1.14	85	85.3	-27	-26.9	15		0	SN		
18	18:58	1,742.86	1.21	86	85.7	-27	-26.8	15		0	SN		
19	17:30	1,600.00	1.12	85	85.7	-27	-26.5	15		0	SN		
20	17:38	1,671.43	1.17	87	86.9	-27	-26.9	15		0	SN		
21	19:36	1,802.38	1.26	87	86.2	-27	-26.7	15		0	CS		
22	20:47	1,700.00	1.19	82	82.6	-26	-25.6	15		0	CS		
23	18:22	1,257.14	0.88	84	84.7	-26	-25.9	15		0	CS		
24	21:26	1,576.19	1.10	82	82.6	-27	-26.2	15		0	CS		
25	18:21	988.10	0.69	82	81.7	-25	-24.8	15		0	CS		
26	18:37	1,450.00	1.00	78	78.8	-27	-26.0	15		0	CS		
27	18:53	1,504.76	1.05	78	78.7	-27	-27.4	15		0	CS		
28	20:02	1,507.14	1.05	81	81.2	-27	-27.1	15		0	ZS		
29	18:35	1,361.90	0.95	84	84.2	-27	-26.7	15		0	RR		
30	18:42	1,450.00	1.00	81	82.0	-27	-25.9	15		0	RR		
31	18:19	1,395.24	0.98	81	81.0	-27	-27.3	15		0	RR		

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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	68.00	01/03/2021	7.25	01/03/2021	7,600.0	01/03/2021	01/25/2021		
2	63.60	01/10/2021	7.37	01/10/2021	7,500.0	01/10/2021	01/25/2021		
3	73.80	01/17/2021	7.61	01/17/2021	6,300.0	01/17/2021	01/25/2021		
4	70.60	01/24/2021	7.61	01/24/2021	6,500.0	01/24/2021	01/29/2021		
5	58.40	01/31/2021	7.52	01/31/2021	4,570.0	01/31/2021	02/04/2021		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 01/05/2021
Kansas Lab Certificate Number E-10116
Lab Name Pace Analytical-Lenexa

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	561.000	mg/l
Conductivity	25,000.000	Mmhos
Iron	8.400	mg/l
Magnesium	156.000	mg/l
Sulfate	2,530.000	mg/l
Total Alkalinity as CaCO3	190.000	mg/l
Total Dissolved Solids	17,100.000	mg/l
Total Hardness as CaCO3	2,040.000	mg/l