Facility Well Name ONEOK (Hutchinson) #2 **UIC Permit #** KS-01-155-002 **Month** October **Year** 2020

Submitted 11/30/2020 **Approved** 11/30/2020 **KOLAR Document ID** 1537584

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 13

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	634	0.44	85	86	-11.5	-11.3	0
Monthly Maximum	2,329	1.62	160	161	0.0	0.1	0
Monthly Minimum	0	0.00	76	77	-29.0	-27.5	0
Monthly Total	19,664						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
161.3	75.80	0.70	-28.20

Comments:

Annulus was pre pressured on Oct 5th for KDHE to witness MIT on the 6th. All pressures were supervised.

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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	23:37	0.00	0.00	86	87.5	-5	-3.7	15		0	CS		
2	22:47	0.00	0.00	82	83.7	-1	0.0	15		0	CS		
3	20:58	0.00	0.00	84	84.6	-1	0.0	15		0	CS		
4	18:20	0.00	0.00	85	87.1	-1	0.0	15		0	CS		
5	20:40	0.00	0.00	160	161.3	-1	0.0	15		0	CS		
6	19:55	0.00	0.00	76	78.8	0	0.1	15		0	CS		
7	21:50	433.33	0.31	80	81.8	-3	-3.0	15		0	CS		
8	19:02	490.48	0.33	76	76.8	-29	-27.5	14		0	RR		
9	22:30	1,440.48	1.00	80	81.6	0	-0.5	15		0	RR		
10	18:29	0.00	0.00	83	84.3	-1	-1.5	15		0	RR		
11	19:02	0.00	0.00	85	86.5	-1	-2.0	15		0	RR		
12	18:54	0.00	0.00	85	85.4	-2	-3.0	15		0	RR		
13	19:02	0.00	0.00	85	85.8	-2	-3.5	15		0	RR		
14	18:49	0.00	0.00	85	85.8	-3	-3.6	15		0	RR		
15	23:37	0.00	0.00	80	80.1	-4	-4.4	15		0	CS		
16	19:26	0.00	0.00	84	84.3	-4	-4.2	15		0	CS		
17	19:40	0.00	0.00	83	84.4	-3	-4.0	15		0	JE		
18	19:12	0.00	0.00	80	80.9	-3	-4.2	15		0	CS		
19	19:23	0.00	0.00	81	82.4	-5	-4.2	15		0	CS		
20	21:43	0.00	0.00	80	80.7	-4	-4.1	15		0	CS		
21	18:41	0.00	0.00	82	83.4	-5	-4.3	15		0	CS		
22	19:54	76.19	0.05	80	81.6	-28	-27.2	14		0	SN		
23	18:27	2,109.52	1.48	82	84.1	-28	-27.0	14		0	SN		
24	18:50	2,252.38	1.57	84	84.6	-28	-26.8	14		0	SN		
25	18:28	2,328.57	1.62	82	82.9	-28	-27.3	14		0	SN		
26	18:51	1,754.76	1.21	83	83.0	-28	-27.4	14		0	SN		
27	18:30	1,690.48	1.17	83	82.7	-28	-27.2	14		0	SN		
28	18:45	1,759.52	1.21	82	83.1	-28	-27.2	14		0	SN		
29	19:02	1,785.71	1.24	84	84.9	-27	-27.3	14		0	SS		
30	18:54	1,761.90	1.21	89	90.1	-28	-27.2	15		0	SN		
31	19:06	1,780.95	1.24	89	89.0	-27	-27.2	15		0	SS		

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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									
2	72.00	10/08/2020	6.01	10/08/2020	205,000.0	10/08/2020	11/04/2020		
3									
4	57.60	10/23/2020	8.15	10/23/2020	1,600.0	10/23/2020	11/04/2020		
5	56.80	10/25/2020	7.42	10/25/2020	2,500.0	10/25/2020	11/04/2020		

No monthly injectate samples required.