Facility Well Name ONEOK (Hillside) #2 **UIC Permit #** KS-01-155-007 **Month** August **Year** 2020

Submitted 09/27/2020 **Approved** 09/30/2020 **KOLAR Document ID** 1531316

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 23,810

			Annulus Pressure psig min 40		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	2,904	2.02	84	84	-23.5	-23.8	0
Monthly Maximum	5,371	3.74	86	87	-17.0	-17.4	0
Monthly Minimum	2,260	1.57	80	81	-25.0	-25.3	0
Monthly Total	90,010						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
87.40	77.60	-10.10	-27.60

Comments:

ONEOK (Hillside) #2 08/2020

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	18:10	2,466.67	1.71	84	83.4	-25	-25.2	16		0	SN		
2	18:12	2,478.57	1.71	83	82.6	-25	-25.3	16		0	SN		
3	19:17	2,604.76	1.81	84	84.4	-25	-25.3	16		0	SN		
4	18:18	2,411.90	1.67	85	83.9	-25	-25.2	15		0	SN		
5	18:17	2,530.95	1.76	85	84.4	-25	-24.9	16		0	SN		
6	19:10	2,683.33	1.86	80	80.7	-24	-24.8	15		0	SS		
7	17:23	2,345.24	1.62	84	83.4	-24	-24.8	15		0	CS		
8	17:00	2,519.05	1.74	84	83.6	-24	-24.8	15		0	CS		
9	16:54	2,573.81	1.79	83	83.0	-25	-24.9	16		0	EL		
10	18:05	2,730.95	1.90	86	86.6	-24	-24.6	16		0	SS		
11	16:20	2,535.71	1.76	85	84.7	-24	-24.1	16		0	EL		
12	16:32	2,711.90	1.88	81	81.0	-24	-24.8	16		0	EL		
13	19:48	2,945.24	2.05	81	81.6	-24	-24.8	15		0	RR		
14	19:58	2,604.76	1.81	82	82.6	-24	-24.8	15		0	RR		
15	20:06	2,602.38	1.81	82	82.1	-24	-24.9	15		0	RR		
16	19:40	2,540.48	1.76	81	81.1	-24	-25.0	15		0	RR		
17	19:26	2,561.90	1.79	85	85.3	-24	-25.0	15		0	RR		
18	19:38	2,623.81	1.83	85	85.1	-24	-24.9	15		0	RR		
19	19:41	2,607.14	1.81	84	83.1	-24	-24.9	15		0	RR		
20	19:30	2,564.29	1.79	84	84.4	-24	-24.7	15		0	EL		
21	19:27	2,611.90	1.81	81	81.1	-24	-24.8	15		0	EL		
22	16:21	2,259.52	1.57	86	86.5	-24	-24.8	16		0	EL		
23	18:27	2,816.67	1.95	85	84.7	-25	-24.9	15		0	EL		
24	16:04	2,350.00	1.64	86	85.9	-24	-24.8	15		0	EL		
25	18:23	2,821.43	1.95	85	84.4	-25	-24.9	15		0	EL		
26	18:08	2,990.48	2.07	85	84.9	-17	-17.8	15		0	JS		
27	19:36	5,371.43	3.74	85	84.6	-18	-17.6	16		0	SN		
28	18:45	4,904.76	3.40	85	85.1	-17	-17.4	15		0	SN		
29	19:06	4,919.05	3.40	80	80.8	-20	-20.1	15		0	SN		
30	18:55	4,028.57	2.81	84	84.1	-23	-23.2	15		0	SN		
31	18:07	3,292.86	2.29	85	85.6	-24	-20.1	15		0	SN		

ONEOK (Hillside) #2 08/2020

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	75.80	08/02/2020	6.59	08/02/2020	218,700.0	08/02/2020	08/14/2020		
2	81.00	08/09/2020	6.49	08/09/2020	215,000.0	08/09/2020	08/14/2020		
3	70.30	08/16/2020	6.41	08/16/2020	215,000.0	08/16/2020	08/21/2020		
4	71.00	08/23/2020	6.68	08/23/2020	215,000.0	08/23/2020	09/12/2020		
5	78.10	08/30/2020	6.19	08/30/2020	220,000.0	08/30/2020	09/12/2020		

No monthly injectate samples required.

ONEOK (Hillside) #2 08/2020

Quarterly Injectate Samples

Quarter 3
Date Sample Collected 07/16/2020
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
Calcium	1,550.000	mg/l
Conductivity	540,000.000	Mmhos
Iron	49.800	mg/l
Magnesium	436.000	mg/l
Sulfate	3,560.000	mg/l
Total Alkalinity as CaCO3	112.000	mg/l
Total Dissolved Solids	319,400.000	mg/l
Total Hardness as CaCO3	5,666.000	mg/l