Facility Well Name CHS Refinery #1 **UIC Permit #** KS-01-113-008 **Month** April **Year** 2022

Submitted 05/19/2022 **Approved** 05/31/2022 **KOLAR Document ID** 1644252

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

Barrels per Day Maximum: 51,429

			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	15,228	10.57	98	95	2.0	1.3	
Monthly Maximum	20,820	14.45	104	102	2.0	1.9	
Monthly Minimum	7,691	5.33	93	91	1.0	1.0	
Monthly Total	456,829						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
109.16	88.66	11.26	0.88

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	07:00	20,820.00	14.45	96	94.4	2	1.0	3			MH		
2	07:00	16,681.38	11.60	104	101.9	2	1.3	6			MH		
3	07:00	17,012.57	11.81	103	101.0	2	1.7	6			MH		
4	07:00	17,398.62	12.07	100	96.9	2	1.2	6			TY		
5	07:00	17,006.05	11.81	100	96.2	2	1.1	6			JC		
6	07:00	13,104.33	9.10	99	97.1	2	1.3	6			CG		
7	07:00	10,567.55	7.33	96	94.4	2	1.2	5			CG		
8	07:00	10,110.17	7.02	96	91.6	2	1.3	5			TY		
9	07:00	13,506.17	9.38	100	96.2	2	1.2	6			JC		
10	07:00	14,820.69	10.29	100	96.5	2	1.6	7			JC		
11	07:00	13,712.90	9.52	95	91.9	2	1.1	6			MW		
12	07:00	7,690.62	5.33	101	99.0	2	1.4	7			MW		
13	07:00	13,783.19	9.57	100	99.0	2	1.4	5			TY		
14	07:00	13,143.10	9.12	96	93.3	1	1.0	5			TY		
15	07:00	13,398.52	9.31	99	95.9	2	1.0	4			MW		
16	07:00	14,268.69	9.90	96	94.4	2	1.2	6			MW		
17	07:00	13,823.67	9.60	99	97.5	2	1.5	6			MW		
18	07:00	12,834.17	8.90	98	95.9	2	1.3	7			BD		
19	07:00	14,460.00	10.05	98	93.1	2	1.1	5			BD		
20	07:00	17,528.24	12.17	100	95.1	2	1.1	6			MB		
21	07:00	15,540.69	10.79	96	90.5	2	1.1	6			MB		
22	07:00	17,710.62	12.31	102	98.4	2	1.9	7			BD		
23	07:00	18,967.88	13.17	98	92.9	2	1.7	7			BD		
24	07:00	18,927.76	13.14	96	91.3	2	1.1	7			BD		
25	07:00	16,434.52	11.40	98	95.3	2	1.4	7			MH		
26	07:00	19,746.17	13.71	98	95.7	2	1.5	6			MH		
27	07:00	16,059.76	11.14	100	97.8	2	1.2	7			BD		
28	07:00	17,038.98	11.83	100	96.8	2	1.4	6			BD		
29	07:00	17,777.83	12.36	97	93.8	2	1.1	6			CG		
30	07:00	12,954.17	9.00	93	90.7	2	1.2	5			CG		
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Weekly Injectate Samples

Kansas Lab Certificate Number E-10116

Week	Temperature		pH		Chloride				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	85.00	04/05/2022	7.38	04/05/2022	971.0	04/05/2022	04/28/2022		
2	98.00	04/12/2022	7.29	04/12/2022	718.0	04/12/2022	04/29/2022		
3	86.30	04/19/2022	7.29	04/19/2022	800.0	04/19/2022	04/28/2022		
4	91.20	04/26/2022	7.59	04/26/2022	813.0	04/26/2022	05/09/2022		
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No monthly injectate samples required.