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

Submitted 09/14/2022 **Approved** 09/30/2022 **KOLAR Document ID** 1664763

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 34,286

			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	15,699	10.90	93	91	2.5	2.0	
Monthly Maximum	20,368	14.14	105	109	11.0	10.6	
Monthly Minimum	9,588	6.67	86	85	1.0	1.2	
Monthly Total	486,668						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
110.77	80.82	12.65	0.89

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	17,777.48	12.36	92	94.6	2	1.5	10			TY		
2	07:00	18,228.33	12.67	96	94.6	2	1.4	11			BD		
3	07:00	17,792.24	12.36	100	96.4	2	1.6	11			JC		
4	07:00	17,288.24	12.00	100	94.9	2	1.7	12			JC		
5	07:00	19,964.57	13.86	100	99.2	2	1.8	13			MW		
6	07:00	19,834.62	13.79	90	88.2	3	2.8	11			MW		
7	07:00	17,484.33	12.14	105	100.3	3	2.8	12			MW		
8	07:00	16,317.95	11.33	92	91.1	3	1.7	10			MB		
9	07:00	14,450.05	10.02	90	88.3	2	1.2	9			MB		
10	07:00	14,147.31	9.83	90	86.1	2	1.3	10			MW		
11	07:00	15,322.29	10.64	86	86.1	2	1.4	9			JC		
12	07:00	14,886.86	10.33	90	86.8	2	1.2	10			MB		
13	07:00	14,884.45	10.33	90	90.7	2	1.3	11			MB		
14	07:00	14,766.17	10.26	86	85.6	2	1.3	9			BD		
15	07:00	13,143.43	9.12	95	92.5	3	1.9	11			CG		
16	07:00	17,300.24	12.02	94	90.5	4	3.3	12			MH		
17	07:00	20,367.76	14.14	90	88.9	2	1.2	12			MB		
18	07:00	18,172.81	12.62	90	84.9	3	1.9	13			MB		
19	07:00	18,073.38	12.55	92	89.0	3	1.9	12			MH		
20	07:00	18,614.05	12.93	90	88.2	11	10.6	13			CG		
21	07:00	18,706.29	13.00	100	97.4	2	1.4	10			CG		
22	07:00	12,642.86	8.79	105	109.0	1	4.9	10			TY		
23	07:00	18,394.98	12.79	100	97.3	2	1.9	12			JC		
24	07:00	18,261.60	12.69	98	96.5	2	1.3	13			CG		
25	07:00	14,318.40	9.95	92	89.0	2	1.3	12			CG		
26	07:00	12,013.02	8.33	92	88.6	2	1.6	12			TY		
27	07:00	12,181.38	8.45	90	85.5	2	1.3	9			JC		
28	07:00	9,621.26	6.69	90	87.4	2	1.4	9			TY		
29	07:00	9,755.31	6.79	91	90.7	2	1.4	9			MW		
30	07:00	9,587.67	6.67	88	85.9	2	1.2	5			MW		
31	07:00	12,368.90	8.60	90	87.2	2	1.2	3			JC		

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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	105.00	08/02/2022	7.65	08/02/2022	419.0	08/02/2022	08/10/2022		
2	101.00	08/09/2022	7.20	08/09/2022	467.0	08/09/2022	08/19/2022		
3	102.00	08/16/2022	7.55	08/16/2022	536.0	08/16/2022	08/19/2022		
4	102.00	08/23/2022	7.24	08/23/2022	569.0	08/23/2022	09/07/2022		
5	81.00	08/30/2022	7.15	08/30/2022	983.0	08/30/2022	09/07/2022		

No monthly injectate samples required.