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

Submitted 08/16/2022 **Approved** 08/26/2022 **KOLAR Document ID** 1660542

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	16,813	11.68	96	94	3.0	2.5	
Monthly Maximum	20,677	14.36	120	120	13.0	11.9	
Monthly Minimum	4,356	3.02	74	70	0.0	0.8	
Monthly Total	521,204						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
125.52	70.23	16.57	0.67

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	15,470.40	10.74	100	90.1	12	1.7	8			JC		
2	07:00	14,384.57	10.00	90	84.6	2	1.6	8			JC		
3	07:00	17,037.26	11.83	92	90.2	2	1.6	10			TY		
4	07:00	17,302.62	12.02	90	89.2	2	1.9	11			MB		
5	07:00	16,558.98	11.50	100	97.4	2	1.7	10			MB		
6	07:00	18,657.26	12.95	96	97.5	3	2.1	11			TY		
7	07:00	20,378.05	14.14	98	96.0	4	3.6	12			TY		
8	07:00	19,757.14	13.71	95	94.6	3	2.1	13			MB		
9	07:00	18,350.74	12.74	95	91.3	3	2.4	12			MB		
10	07:00	20,393.48	14.17	90	87.1	2	2.1	11			MB		
11	07:00	19,558.62	13.57	92	90.3	2	1.7	11			MB		
12	07:00	4,356.00	3.02	90	89.6	13	11.9	9			MW		
13	07:00	12,717.95	8.83	90	89.1	2	2.2	8			MB		
14	07:00	20,677.02	14.36	120	120.0	2	2.1	12			MB		
15	07:00	17,153.14	11.90	108	105.7	2	1.7	10			BD		
16	07:00	18,445.38	12.81	110	107.9	2	2.2	12			BD		
17	07:00	19,014.17	13.21	106	104.9	2	2.0	11			BF		
18	07:00	19,365.60	13.45	104	102.1	2	2.1	12			MH		
19	07:00	17,703.43	12.29	106	104.0	3	2.3	13			MH		
20	07:00	18,464.90	12.83	84	84.4	2	1.5	8			BD		
21	07:00	19,199.67	13.33	90	87.4	8	8.6	11			BD		
22	07:00	17,044.12	11.83	74	70.3	2	1.1	6			MH		
23	07:00	9,613.02	6.67	82	79.6	2	0.8	5			MH		
24	07:00	9,853.71	6.83	88	85.2	2	1.0	4			CG		
25	07:00	8,979.43	6.24	88	85.4	2	0.8	4			MH		
26	07:00	15,972.00	11.10	100	99.6	2	1.6	10			TP		
27	07:00	19,406.74	13.48	106	103.0	2	1.7	11			CG		
28	07:00	19,910.40	13.83	106	103.6	0	5.7	12			CG		
29	07:00	19,473.95	13.52	100	96.7	2	1.4	11			JC		
30	07:00	19,380.33	13.45	94	89.9	2	1.3	9			TY		
31	07:00	16,623.43	11.55	96	94.7	2	1.8	10			TY		

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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	98.30	07/05/2022	6.98	07/05/2022	504.0	07/05/2022	07/12/2022		
2	86.00	07/12/2022	7.01	07/12/2022	1,030.0	07/12/2022	08/01/2022		
3	100.00	07/19/2022	8.23	07/19/2022	607.0	07/19/2022	08/01/2022		
4	95.00	07/26/2022	7.33	07/26/2022	746.0	07/26/2022	08/10/2022		
5									

No monthly injectate samples required.