Facility Well Name CHS Refinery #3 **UIC Permit #** KS-01-113-010 **Month** February **Year** 2024

Submitted 03/25/2024 **Approved** 03/28/2024 **KOLAR Document ID** 1769424

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 29

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	6,363	4.42	108	108	3.3	2.9	
Monthly Maximum	9,130	6.33	126	128	8.0	5.8	
Monthly Minimum	5,347	3.71	90	90	2.0	2.6	
Monthly Total	184,516						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
138.35	0.01	16.25	2.46

Comments:

The continuous recorders on the injection well were calibrated on 2/5/2024 resulting in an annulus pressure reading below permit limits.

CHS Refinery #3 02/2024

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	7,871.12	5.48	126	127.5	3	2.8	9			BD		
2	07:00	6,778.52	4.71	116	113.8	3	2.7	6			MH		
3	07:00	5,369.40	3.74	117	117.3	3	2.8	8			MH		
4	07:00	5,347.26	3.71	118	117.5	3	3.0	7			MH		
5	07:00	5,389.62	3.74	110	112.8	3	2.8	8			TY		
6	07:00	5,381.60	3.74	108	110.1	2	2.7	9			TY		
7	07:00	5,486.33	3.81	118	116.5	8	2.7	8			CG		
8	07:00	5,387.67	3.74	116	112.9	3	2.6	8			CG		
9	07:00	5,432.45	3.76	110	108.4	3	2.7	6			TP		
10	07:00	5,432.60	3.76	105	102.5	3	2.6	6			MW		
11	07:00	5,460.90	3.79	104	102.3	3	2.6	6			CG		
12	07:00	5,474.67	3.81	108	105.6	2	2.6	7			TT		
13	07:00	5,461.62	3.79	120	118.8	2	2.7	8			RI		
14	07:00	5,444.86	3.79	108	102.7	2	2.6	7			TY		
15	07:00	5,386.81	3.74	100	98.1	3	2.6	6			TY		
16	07:00	5,381.88	3.74	100	98.7	3	2.7	6			MW		
17	07:00	5,391.38	3.74	90	89.7	3	2.7	5			MW		
18	07:00	5,411.76	3.76	92	95.4	3	2.7	5			NB		
19	07:00	5,398.83	3.74	100	99.6	3	2.8	6			MB		
20	07:00	5,429.19	3.76	104	103.1	3	3.0	6			MB		
21	07:00	5,375.62	3.74	105	106.3	3	2.8	8			NB		
22	07:00	5,362.98	3.71	110	112.3	3	2.8	8			NB		
23	07:00	7,556.76	5.24	110	107.3	3	2.9	8			BD		
24	07:00	8,747.24	6.07	110	110.7	4	3.5	9			BD		
25	07:00	9,034.50	6.29	115	114.8	3	2.7	9			CG		
26	07:00	9,034.12	6.26	115	115.4	6	4.8	10			MH		
27	07:00	9,067.17	6.29	116	117.3	3	2.8	11			MH		
28	07:00	9,088.57	6.31	95	94.5	3	2.7	8			TY		
29	07:00	9,130.10	6.33	98	101.0	7	5.8	9			TY		
30													
31													

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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	78.80	02/06/2024	7.25	02/06/2024	705.0	02/06/2024	03/07/2024		
2	72.00	02/13/2024	7.89	02/13/2024	619.0	02/13/2024	03/07/2024		
3	78.80	02/20/2024	7.67	02/20/2024	676.0	02/20/2024	03/07/2024		
4	86.40	02/27/2024	8.16	02/27/2024	963.0	02/27/2024	03/08/2024		
5									

No monthly injectate samples required.