Facility Well Name CHS Refinery #4 **UIC Permit #** KS-01-113-011 **Month** February **Year** 2024

Submitted 03/25/2024 **Approved** 03/28/2024 **KOLAR Document ID** 1769425

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 29

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	15,773	10.95	101	102	5.8	2.0	3
Monthly Maximum	23,520	16.33	112	112	18.0	13.7	3
Monthly Minimum	9,202	6.38	96	94	4.0	0.0	3
Monthly Total	457,413						3

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
119.30	0.06	14.54	0.00

Comments:

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

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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	17,843.19	12.38	98	96.2	9	5.5	1			BD		
2	07:00	20,232.76	14.05	112	111.6	15	12.2	1			MH		
3	07:00	9,201.95	6.38	98	96.2	11	6.9	1			MH		
4	07:00	12,645.26	8.79	97	95.7	10	6.5	1			MH		
5	07:00	12,719.71	8.83	98	96.8	8	4.6	1			TY		
6	07:00	14,214.62	9.88	98	96.3	4	0.2	1			TY		
7	07:00	16,604.60	11.52	98	96.1	4	0.3	1			CG		
8	07:00	16,544.74	11.50	98	96.5	4	0.3	1			CG		
9	07:00	16,547.69	11.50	98	95.5	4	4.0	1			TP		
10	07:00	16,596.98	11.52	99	98.6	4	0.2	1			MW		
11	07:00	16,619.64	11.55	100	99.1	4	0.2	1			CG		
12	07:00	16,621.60	11.55	96	93.7	4	0.1	1			TT		
13	07:00	16,375.38	11.38	98	98.3	4	0.1	1	Mineral Oil	3	RI		
14	07:00	16,548.05	11.50	102	107.1	4	0.0	2			TY		
15	07:00	16,554.02	11.50	104	105.9	4	0.0	2			TY		
16	07:00	16,582.71	11.52	103	101.3	4	0.0	2			MW		
17	07:00	16,595.12	11.52	106	105.9	5	0.0	2			MW		
18	07:00	16,623.55	11.55	105	104.9	6	0.0	3			NB		
19	07:00	13,834.57	9.62	100	103.4	4	0.1	2			MB		
20	07:00	12,721.38	8.83	102	106.5	4	0.1	2			MB		
21	07:00	12,788.95	8.88	104	106.1	4	0.0	2			NB		
22	07:00	12,756.52	8.86	98	98.1	5	1.1	3			NB		
23	07:00	21,561.71	14.98	104	108.5	18	13.7	4			BD		
24	07:00	23,519.98	16.33	106	109.0	5	0.4	4			BD		
25	07:00	18,208.43	12.64	105	105.7	4	0.1	3			CG		
26	07:00	16,621.50	11.55	100	98.2	4	0.0	3			MH		
27	07:00	14,449.12	10.02	100	99.5	4	0.1	3			MH		
28	07:00	12,631.57	8.76	104	107.6	4	0.1	2			TY		
29	07:00	12,647.64	8.79	104	109.2	4	0.1	3			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	80.50	02/06/2024	7.22	02/06/2024	760.0	02/06/2024	03/07/2024		
2	66.50	02/13/2024	7.54	02/13/2024	784.0	02/13/2024	03/07/2024		
3	78.10	02/20/2024	7.33	02/20/2024	699.0	02/20/2024	03/07/2024		
4	81.20	02/27/2024	7.58	02/27/2024	585.0	02/27/2024	03/07/2024		
5									

No monthly injectate samples required.