Facility Well Name CHS Refinery #3 **UIC Permit #** KS-01-113-010 **Month** January **Year** 2023

Submitted 02/16/2023 **Approved** 02/28/2023 **KOLAR Document ID** 1693179

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

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	7,385	5.13	105	106	5.1	4.6	
Monthly Maximum	8,387	5.83	120	118	17.0	15.8	
Monthly Minimum	6,573	4.57	90	92	2.0	2.4	
Monthly Total	228,931						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
129.14	90.21	15.98	1.51

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	8,386.62	5.83	120	117.9	5	4.3	8			BD		
2	07:00	8,344.12	5.79	115	117.0	4	3.1	8			MH		
3	07:00	8,369.48	5.81	115	113.2	4	2.8	7			MH		
4	07:00	7,887.43	5.48	102	104.5	3	3.0	5			MB		
5	07:00	6,940.81	4.81	105	103.5	4	3.7	6			MB		
6	07:00	6,807.43	4.74	110	108.3	3	2.8	6			MH		
7	07:00	6,733.71	4.67	110	108.2	2	2.7	6			MH		
8	07:00	6,775.19	4.71	105	107.4	2	2.7	6			CG		
9	07:00	6,697.02	4.64	106	109.5	3	2.5	6			TY		
10	07:00	6,652.12	4.62	108	111.0	3	2.5	8			TY		
11	07:00	6,680.90	4.64	108	113.8	3	2.8	8			CG		
12	07:00	6,671.31	4.64	102	104.2	3	2.8	7			CG		
13	07:00	6,678.86	4.64	100	107.3	2	2.7	7			JC		
14	07:00	6,653.83	4.62	102	105.3	2	2.8	7			TY		
15	07:00	6,630.17	4.60	103	106.4	3	2.8	7			JC		
16	07:00	6,615.10	4.60	110	109.6	3	2.8	7			NB		
17	07:00	6,572.90	4.57	110	111.0	3	2.8	8			NB		
18	07:00	6,614.05	4.60	105	107.3	3	2.7	7			TY		
19	07:00	7,195.19	5.00	100	99.4	9	7.8	6			TY		
20	07:00	8,059.19	5.60	101	103.9	11	10.4	7			MW		
21	07:00	8,100.69	5.62	110	111.9	10	8.5	8			MW		
22	07:00	8,044.45	5.60	105	108.4	3	2.5	8			NB		
23	07:00	7,929.26	5.50	108	106.2	6	5.2	8			BD		
24	07:00	7,948.12	5.52	100	105.0	14	12.2	8			BD		
25	07:00	8,032.12	5.57	100	102.2	5	3.8	8			NB		
26	07:00	8,054.74	5.60	102	105.1	8	7.3	7			NB		
27	07:00	8,049.60	5.60	105	106.0	10	8.3	8			MB		
28	07:00	8,204.90	5.69	107	106.8	17	15.8	8			MB		
29	07:00	7,979.67	5.55	90	94.0	2	2.4	6			MB		
30	07:00	7,275.10	5.05	90	91.5	5	4.1	5			MH		
31	07:00	7,346.74	5.10	92	93.8	2	2.5	5			MH		

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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	82.00	01/03/2023	6.47	01/03/2023	1,120.0	01/03/2023	01/05/2023		
2	87.20	01/10/2023	6.76	01/10/2023	991.0	01/10/2023	01/24/2023		
3	82.80	01/17/2023	7.34	01/17/2023	966.0	01/17/2023	01/24/2023		
4	85.20	01/24/2023	7.22	01/24/2023	750.0	01/24/2023	02/08/2023		
5	77.50	01/31/2023	7.14	01/31/2023	729.0	01/31/2023	02/11/2023		

No monthly injectate samples required.