Facility Well Name CHS Refinery #3 **UIC Permit #** KS-01-113-010 **Month** November **Year** 2022

Submitted 12/13/2022 **Approved** 12/28/2022 **KOLAR Document ID** 1676573

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

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	5,837	4.05	102	104	3.2	3.4	
Monthly Maximum	8,752	6.07	110	116	14.0	13.0	
Monthly Minimum	243	0.17	95	93	2.0	2.5	
Monthly Total	175,103						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
122.26	91.67	14.76	1.66

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	1,431.76	1.00	100	100.2	2	2.7	5			MB		
2	07:00	1,438.62	1.00	100	101.1	2	2.7	4			BD		
3	07:00	1,457.48	1.02	100	100.4	2	2.7	4			TY		
4	07:00	1,655.67	1.14	98	99.9	3	3.0	4			MB		
5	07:00	1,709.83	1.19	95	93.4	3	3.0	2			MB		
6	07:00	1,803.43	1.26	95	98.3	3	3.0	3			MB		
7	07:00	1,762.98	1.21	96	98.2	2	3.1	3			MH		
8	07:00	2,541.60	1.76	102	103.8	2	3.0	2			MH		
9	07:00	1,077.26	0.74	110	111.8	2	2.8	4			MB		
10	07:00	243.10	0.17	110	113.0	14	13.0	4			NB		
11	07:00	5,413.02	3.76	100	101.8	13	11.8	4			MH		
12	07:00	8,752.45	6.07	98	100.3	2	2.5	4			MH		
13	07:00	8,735.67	6.07	100	102.5	2	2.6	4			MH		
14	07:00	8,727.76	6.07	103	104.8	2	2.6	5			TY		
15	07:00	8,621.14	5.98	99	100.7	2	2.6	4			TY		
16	07:00	8,606.05	5.98	98	100.3	2	2.6	5			CG		
17	07:00	8,670.86	6.02	104	104.4	2	2.7	5			NB		
18	07:00	8,645.83	6.00	100	100.5	2	2.6	5			NB		
19	07:00	8,573.48	5.95	100	100.5	2	2.7	5			TY		
20	07:00	8,391.76	5.83	100	103.2	2	2.7	5			TY		
21	07:00	7,788.33	5.40	105	105.3	3	2.7	5			MW		
22	07:00	7,485.60	5.19	106	107.6	4	3.0	5			NB		
23	07:00	7,488.33	5.19	106	110.2	3	2.7	7			TY		
24	07:00	7,543.19	5.24	108	116.1	3	2.9	7			TY		
25	07:00	7,596.69	5.29	110	109.5	3	2.8	7			NB		
26	07:00	7,570.98	5.26	108	110.1	3	2.8	7			NB		
27	07:00	7,608.69	5.29	104	106.9	3	2.7	7			TY		
28	07:00	7,624.81	5.29	106	105.1	2	2.7	7			BD		
29	07:00	7,947.76	5.52	104	106.8	3	2.7	7			BD		
30	07:00	8,189.14	5.69	100	94.4	2	2.7	5			MW		
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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	74.00	11/01/2022	7.75	11/01/2022	742.0	11/01/2022	11/21/2022		
2	72.80	11/08/2022	8.30	11/08/2022	504.0	11/08/2022	11/21/2022		
3	73.00	11/15/2022	7.35	11/15/2022	619.0	11/15/2022	11/21/2022		
4	81.00	11/22/2022	7.54	11/22/2022	757.0	11/22/2022	12/05/2022		
5	80.20	11/29/2022	7.26	11/29/2022	811.0	11/29/2022	12/05/2022		

No monthly injectate samples required.