Facility Well Name CHS Refinery #2 **UIC Permit #** KS-01-113-009 **Month** November **Year** 2022

Submitted 12/13/2022 **Approved** 12/28/2022 **KOLAR Document ID** 1676572

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

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	10,853	7.54	99	96	6.8	6.6	20
Monthly Maximum	13,869	9.64	108	108	15.0	13.2	20
Monthly Minimum	8	0.00	80	78	1.0	1.5	20
Monthly Total	325,594						20

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
124.24	64.69	13.85	1.37

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	10,832.57	7.52	85	81.4	11	10.2	2			MB		
2	07:00	10,454.05	7.26	90	84.0	12	10.4	1			BD		
3	07:00	9,702.52	6.74	90	83.4	12	10.5	2			TY		
4	07:00	9,166.29	6.36	80	78.9	11	9.9	2			MB		
5	07:00	11,169.26	7.76	80	77.7	11	9.9	2			MB		
6	07:00	11,505.60	8.00	85	82.3	12	10.1	2			MB		
7	07:00	11,276.57	7.83	95	93.1	11	10.1	1			MH		
8	07:00	11,297.14	7.86	101	98.2	11	10.5	1			MH		
9	07:00	3,833.14	2.67	105	101.5	13	13.2	1			NB		
10	07:00	8.24	0.00	105	99.5	15	13.1	1			NB		
11	07:00	4,462.29	3.10	104	102.8	8	6.5	1			MH		
12	07:00	10,522.62	7.31	102	98.8	2	2.0	1			MH		
13	07:00	10,433.48	7.24	102	97.3	2	2.1	1			MH		
14	07:00	9,856.81	6.83	104	99.8	2	2.0	1			TY		
15	07:00	11,866.98	8.24	100	97.5	2	2.0	1			TY		
16	07:00	9,898.98	6.88	105	97.0	2	1.9	1			CG		
17	07:00	11,696.90	8.12	105	100.9	2	2.5	1			CG		
18	07:00	12,799.88	8.88	100	101.2	2	3.1	1			TY		
19	07:00	13,099.88	9.10	98	98.4	2	11.2	1			JC		
20	07:00	13,690.62	9.50	104	104.2	11	12.0	1			TY		
21	07:00	13,869.26	9.64	103	100.4	15	13.2	1			MW		
22	07:00	13,222.98	9.19	105	106.3	13	12.8	1	Mineral Oil	20	NB		
23	07:00	13,291.88	9.24	98	96.1	2	2.2	7			TY		
24	07:00	13,046.40	9.07	104	99.0	4	3.1	8			TY		
25	07:00	12,015.43	8.33	102	99.9	3	2.8	8			NB		
26	07:00	12,738.52	8.86	102	100.7	3	2.5	8			NB		
27	07:00	12,699.76	8.81	105	104.7	4	3.1	9			TY		
28	07:00	12,499.88	8.69	100	98.4	2	1.5	7			BD		
29	07:00	11,742.52	8.14	104	100.4	3	1.8	7			BD		
30	07:00	12,893.83	8.95	108	107.7	1	1.7	6			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	80.20	11/01/2022	7.54	11/01/2022	1,190.0	11/01/2022	11/21/2022		
2	78.30	11/08/2022	7.48	11/08/2022	1,050.0	11/08/2022	11/21/2022		
3	79.00	11/15/2022	7.62	11/15/2022	756.0	11/15/2022	11/21/2022		
4	79.80	11/22/2022	6.98	11/22/2022	1,100.0	11/22/2022	12/05/2022		
5	83.60	11/29/2022	7.09	11/29/2022	944.0	11/29/2022	12/05/2022		

No monthly injectate samples required.