Facility Well Name CHS Refinery #1 **UIC Permit #** KS-01-113-008 **Month** January **Year** 2022

Submitted 02/16/2022 **Approved** 02/25/2022 **KOLAR Document ID** 1621264

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	14,454	10.04	94	93	2.7	1.9	
Monthly Maximum	19,478	13.52	100	101	13.0	12.5	
Monthly Minimum	8,688	6.02	90	88	1.0	0.2	
Monthly Total	448,084						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
108.16	85.17	12.74	0.46

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	14,566.62	10.12	98	96.9	2	1.0	6			MW		
2	07:00	15,705.60	10.90	95	95.9	2	1.4	5			MW		
3	07:00	19,478.40	13.52	100	97.6	2	1.3	5			MH		
4	07:00	18,012.33	12.50	100	98.1	8	6.5	3			CG		
5	07:00	16,563.10	11.50	98	96.0	2	1.5	3			CG		
6	07:00	15,581.14	10.81	95	91.7	4	3.6	3			CG		
7	07:00	15,836.24	11.00	98	94.8	2	0.9	4			CG		
8	07:00	14,373.95	9.98	100	99.2	1	0.2	5			TY		
9	07:00	10,133.83	7.05	93	91.1	1	0.7	3			CG		
10	07:00	8,688.00	6.02	96	93.8	1	0.7	3			TY		
11	07:00	8,791.19	6.10	96	92.4	2	0.7	3			TY		
12	07:00	9,432.69	6.55	95	92.7	2	0.9	3			CG		
13	07:00	9,230.05	6.40	95	91.9	2	0.7	3			CG		
14	07:00	9,487.19	6.60	94	92.4	1	1.4	3			TY		
15	07:00	14,441.83	10.02	100	101.3	5	6.1	3			TY		
16	07:00	13,950.17	9.69	92	89.1	1	1.5	4			TY		
17	07:00	12,824.24	8.90	90	90.7	2	0.9	5			MB		
18	07:00	11,979.76	8.31	95	93.1	2	0.7	5			MB		
19	07:00	13,987.19	9.71	95	88.6	2	0.9	5			JC		
20	07:00	12,245.14	8.50	90	89.5	2	0.8	4			JC		
21	07:00	13,966.29	9.69	90	89.4	2	0.9	3			MB		
22	07:00	13,891.55	9.64	90	90.5	2	1.0	4			MB		
23	07:00	17,520.33	12.17	95	92.6	13	12.5	5			MB		
24	07:00	17,611.55	12.24	95	91.3	2	1.0	3			MW		
25	07:00	17,956.45	12.48	90	89.6	2	1.2	4			MW		
26	07:00	15,003.76	10.43	90	90.5	2	1.1	5			MB		
27	07:00	16,802.05	11.67	92	89.8	2	1.4	5			MB		
28	07:00	17,762.05	12.33	95	91.2	2	1.0	4			MW		
29	07:00	17,075.31	11.86	90	88.0	2	1.2	6			MW		
30	07:00	17,032.45	11.83	95	92.7	2	1.3	6			TB		
31	07:00	18,153.60	12.60	91	88.6	6	5.2	6			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	79.00	01/04/2022	7.25	01/04/2022	820.0	01/04/2022	01/14/2022		
2	79.00	01/11/2022	7.51	01/11/2022	910.0	01/11/2022	01/12/2022		
3	90.10	01/18/2022	7.34	01/18/2022	584.0	01/18/2022	01/28/2022		
4	82.00	01/25/2022	7.46	01/25/2022	832.0	01/25/2022	01/28/2022		
5									

No monthly injectate samples required.