Facility Well Name CHS Refinery #4 **UIC Permit #** KS-01-113-011 **Month** May **Year** 2022

Submitted 06/24/2022 **Approved** 06/29/2022 **KOLAR Document ID** 1649760

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

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	13,318	9.25	97	96	4.5	0.5	
Monthly Maximum	16,664	11.57	106	108	17.0	12.9	
Monthly Minimum	8,946	6.21	90	91	4.0	0.0	
Monthly Total	412,872						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
112.25	88.52	14.00	0.00

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	12,821.83	8.90	98	98.4	4	0.2	2			CG		
2	07:00	12,821.48	8.90	98	97.3	4	0.2	3			TY		
3	07:00	14,621.14	10.14	96	95.3	4	0.3	2			TY		
4	07:00	16,663.55	11.57	95	94.5	4	0.4	2			CG		
5	07:00	16,657.38	11.57	94	92.7	4	0.2	2			CG		
6	07:00	14,712.00	10.21	96	93.7	4	0.1	2			TY		
7	07:00	13,120.81	9.12	96	93.6	5	0.0	2			TY		
8	07:00	13,134.86	9.12	96	94.0	4	0.1	3			TY		
9	07:00	13,118.05	9.12	90	90.9	4	0.0	5			MW		
10	07:00	13,098.52	9.10	93	97.8	4	0.1	8			MW		
11	07:00	13,148.57	9.14	96	95.2	4	0.1	10			TY		
12	07:00	13,170.86	9.14	105	108.3	4	0.1	8			TY		
13	07:00	13,170.17	9.14	95	92.8	4	0.1	7			MB		
14	07:00	13,162.98	9.14	94	90.8	4	0.1	8			MB		
15	07:00	13,204.81	9.17	95	91.4	4	0.1	9			MB		
16	07:00	13,173.26	9.14	96	94.6	4	0.1	4			BD		
17	07:00	13,174.62	9.14	96	93.4	4	0.1	6			BD		
18	07:00	13,185.95	9.17	100	95.0	4	0.1	6			MB		
19	07:00	13,170.52	9.14	95	93.1	4	0.0	4			MB		
20	07:00	13,136.24	9.12	96	94.5	4	0.0	4			BD		
21	07:00	13,182.52	9.14	98	94.0	4	0.0	3			BD		
22	07:00	13,192.45	9.17	100	101.0	4	0.1	6			BD		
23	07:00	13,175.31	9.14	93	92.4	4	0.1	4			CG		
24	07:00	13,196.57	9.17	96	94.2	4	0.1	3			CG		
25	07:00	13,144.45	9.12	98	97.1	4	0.0	1			BD		
26	07:00	13,181.83	9.14	96	95.4	4	0.1	1			BD		
27	07:00	13,215.43	9.17	99	99.8	4	0.0	2			CG		
28	07:00	13,167.76	9.14	97	97.8	4	0.0	2			CG		
29	07:00	13,003.19	9.02	106	104.1	4	0.1	4			CG		
30	07:00	12,998.40	9.02	96	95.2	17	12.9	6			TY		
31	07:00	8,946.17	6.21	96	95.0	4	0.0	8			TY		

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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	74.30	05/03/2022	7.44	05/03/2022	681.0	05/03/2022	05/23/2022		
2	85.00	05/10/2022	7.28	05/10/2022	1,040.0	05/10/2022	06/05/2022		
3	83.40	05/17/2022	7.28	05/17/2022	903.0	05/17/2022	06/02/2022		
4	80.90	05/24/2022	7.09	05/24/2022	866.0	05/24/2022	06/02/2022		
5	83.80	05/31/2022	6.92	05/31/2022	932.0	05/31/2022	06/02/2022		

No monthly injectate samples required.