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

Submitted 06/24/2022 **Approved** 06/30/2022 **KOLAR Document ID** 1649759

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	4,875	3.38	99	100	3.0	3.5	
Monthly Maximum	7,642	5.31	110	110	13.0	13.0	
Monthly Minimum	1,557	1.07	84	85	2.0	2.3	
Monthly Total	151,137						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
126.63	82.44	15.70	2.04

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	5,100.33	3.55	93	96.8	2	2.7	7			CG		
2	07:00	4,302.17	2.98	100	98.6	2	2.7	7			TY		
3	07:00	4,259.67	2.95	90	91.4	2	2.6	6			TY		
4	07:00	4,563.76	3.17	96	95.4	2	2.7	6			CG		
5	07:00	4,531.19	3.14	95	94.3	2	2.7	7			CG		
6	07:00	4,539.43	3.14	96	95.3	2	2.7	6			TY		
7	07:00	4,190.40	2.90	99	98.4	2	2.8	8			TY		
8	07:00	3,851.67	2.67	102	102.3	2	2.8	8			TY		
9	07:00	3,691.55	2.57	108	108.4	2	2.8	9			MW		
10	07:00	3,606.52	2.50	110	110.2	2	2.9	10			MW		
11	07:00	3,482.74	2.43	110	109.6	2	2.9	10			TY		
12	07:00	3,642.17	2.52	106	106.3	2	2.8	10			TY		
13	07:00	3,530.40	2.45	105	107.2	2	2.9	10			MB		
14	07:00	3,614.74	2.50	105	106.6	3	3.0	10			MB		
15	07:00	3,541.38	2.45	105	106.3	2	2.9	10			MB		
16	07:00	3,628.12	2.52	100	100.6	2	2.9	9			BD		
17	07:00	3,768.33	2.62	100	100.8	2	2.8	9			BD		
18	07:00	4,690.29	3.26	110	106.4	10	9.1	10			MB		
19	07:00	7,641.60	5.31	110	108.6	2	2.7	11			MB		
20	07:00	5,417.83	3.76	102	102.7	2	2.7	10			BD		
21	07:00	6,398.05	4.45	96	94.9	5	4.7	9			BD		
22	07:00	6,537.95	4.55	96	94.3	2	2.7	9			BD		
23	07:00	5,463.76	3.79	93	96.3	2	2.8	9			CG		
24	07:00	6,089.83	4.24	90	90.2	2	2.7	8			CG		
25	07:00	6,224.24	4.33	90	89.4	2	2.8	8			BD		
26	07:00	6,375.10	4.43	84	85.1	4	3.3	6			BD		
27	07:00	6,148.81	4.26	90	89.9	2	2.8	6			CG		
28	07:00	6,897.26	4.79	98	98.1	2	2.3	9			CG		
29	07:00	7,073.14	4.90	104	104.7	13	13.0	11			CG		
30	07:00	6,777.95	4.71	104	105.1	4	2.9	11			TY		
31	07:00	1,556.57	1.07	96	94.0	7	7.4	9			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	77.40	05/03/2022	7.49	05/03/2022	731.0	05/03/2022	05/21/2022		
2	87.00	05/10/2022	7.31	05/10/2022	652.0	05/10/2022	05/21/2022		
3	86.00	05/17/2022	7.80	05/17/2022	573.0	05/17/2022	06/02/2022		
4	79.80	05/24/2022	8.20	05/24/2022	626.0	05/24/2022	06/02/2022		
5	79.20	05/31/2022	5.55	05/31/2022	346.0	05/31/2022	06/02/2022		

No monthly injectate samples required.