Facility Well Name CHS Refinery #3 **UIC Permit #** KS-01-113-010 **Month** October **Year** 2023

Submitted 11/20/2023 **Approved** 11/29/2023 **KOLAR Document ID** 1738242

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	3,570	2.48	90	91	4.0	3.7	
Monthly Maximum	4,539	3.14	104	103	17.0	15.9	
Monthly Minimum	3,178	2.21	70	73	2.0	2.6	
Monthly Total	110,656						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
124.41	69.78	17.91	2.35

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	3,968.57	2.76	80	82.2	3	3.0	14			NB		
2	07:00	3,976.45	2.76	90	80.4	5	5.6	13			MB		
3	07:00	3,772.81	2.62	80	78.7	4	3.0	13			MB		
4	07:00	3,317.14	2.31	74	76.5	3	2.7	12			NB		
5	07:00	3,306.17	2.29	70	73.9	3	2.7	12			NB		
6	07:00	3,321.60	2.31	75	73.3	3	2.8	12			MB		
7	07:00	3,342.17	2.31	100	96.9	2	2.7	11			BD		
8	07:00	3,347.31	2.33	100	98.7	3	2.7	10			BD		
9	07:00	3,629.83	2.52	104	102.6	3	2.8	11			MH		
10	07:00	3,400.81	2.36	100	98.8	2	2.8	11			MH		
11	07:00	3,406.62	2.36	95	96.9	3	2.8	9			MB		
12	07:00	3,657.95	2.55	100	100.6	3	2.8	10			MB		
13	07:00	3,378.52	2.36	96	95.7	3	2.8	6			CG		
14	07:00	3,404.57	2.36	88	88.6	3	2.7	8			CG		
15	07:00	3,401.48	2.36	88	88.5	2	2.8	8			MH		
16	07:00	3,435.10	2.38	88	87.9	3	2.9	8			BD		
17	07:00	3,625.02	2.52	94	93.3	15	13.2	9			BD		
18	07:00	4,538.74	3.14	95	94.7	3	2.6	10			CG		
19	07:00	3,596.90	2.50	95	94.9	3	2.7	10			CG		
20	07:00	3,633.95	2.52	100	99.6	3	2.7	11			MH		
21	07:00	4,201.02	2.93	100	101.4	6	5.8	12			TY		
22	07:00	4,152.00	2.88	95	97.9	4	3.2	11			NB		
23	07:00	3,821.83	2.64	95	100.4	17	15.9	11			NB		
24	07:00	3,373.38	2.33	95	92.1	3	2.7	9			MW		
25	07:00	3,410.05	2.36	92	95.0	3	2.7	9			RF		
26	07:00	3,425.14	2.38	94	99.8	3	2.9	11			RF		
27	07:00	3,414.52	2.38	95	94.1	3	2.8	11			MW		
28	07:00	3,401.83	2.36	85	84.0	3	2.7	9			MW		
29	07:00	3,403.88	2.36	80	81.6	3	2.9	7			MW		
30	07:00	3,412.45	2.38	78	78.8	3	2.8	7			NB		
31	07:00	3,178.29	2.21	80	80.2	3	2.8	8			MB		

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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	90.20	10/03/2023	7.52	10/03/2023	757.0	10/03/2023	11/02/2023		
2	84.00	10/10/2023	7.26	10/10/2023	1,020.0	10/10/2023	11/09/2023		
3	81.00	10/17/2023	6.90	10/17/2023	746.0	10/17/2023	11/09/2023		
4	80.40	10/24/2023	7.03	10/24/2023	917.0	10/24/2023	11/10/2023		
5	77.90	10/31/2023	7.94	10/31/2023	627.0	10/31/2023	11/13/2023		

No monthly injectate samples required.