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

Submitted 11/17/2022 **Approved** 11/30/2022 **KOLAR Document ID** 1673718

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	2,736	1.90	99	100	2.4	2.9	
Monthly Maximum	6,182	4.29	120	115	5.0	5.4	
Monthly Minimum	526	0.36	90	93	1.0	2.5	
Monthly Total	84,827						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
122.62	91.98	16.11	2.24

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	5,199.10	3.62	98	97.7	2	2.8	9			MW		
2	07:00	3,643.88	2.52	95	95.2	2	2.8	8			MW		
3	07:00	2,846.05	1.98	95	92.7	1	2.7	8			MB		
4	07:00	4,403.31	3.05	95	96.8	2	2.9	9			MB		
5	07:00	1,366.29	0.95	95	97.9	2	2.8	8			AF		
6	07:00	2,348.24	1.62	90	92.5	2	2.7	8			AF		
7	07:00	1,097.83	0.76	95	94.0	4	3.1	7			MB		
8	07:00	839.31	0.57	96	94.2	4	2.7	5			BD		
9	07:00	1,803.76	1.26	98	99.5	3	2.9	5			BD		
10	07:00	525.60	0.36	98	97.7	3	2.8	5			MH		
11	07:00	2,036.57	1.40	105	104.7	2	2.7	7			MH		
12	07:00	3,093.95	2.14	100	105.2	3	2.9	8			BD		
13	07:00	5,542.62	3.86	100	101.4	5	5.4	7			BD		
14	07:00	6,181.71	4.29	100	100.0	2	2.5	7			MH		
15	07:00	5,351.67	3.71	98	100.2	2	2.7	7			CG		
16	07:00	2,953.71	2.05	95	99.2	2	2.7	7			CG		
17	07:00	5,178.17	3.60	90	93.9	2	2.7	5			TY		
18	07:00	3,181.38	2.21	94	95.8	4	3.2	4			TY		
19	07:00	1,333.02	0.93	92	94.2	2	2.7	3			CG		
20	07:00	3,347.67	2.33	98	101.2	2	2.7	5			CG		
21	07:00	2,516.24	1.74	110	108.9	2	2.9	6			TY		
22	07:00	564.00	0.38	110	106.1	2	2.7	6			JC		
23	07:00	3,192.69	2.21	118	114.9	2	2.7	7			TY		
24	07:00	2,890.62	2.00	120	113.9	2	2.9	8			JC		
25	07:00	1,378.98	0.95	100	97.8	2	2.7	5			BD		
26	07:00	2,114.74	1.48	100	100.1	2	2.7	5			JC		
27	07:00	1,774.62	1.24	100	102.4	2	2.7	5			JC		
28	07:00	1,885.38	1.31	100	100.1	2	2.8	5			JC		
29	07:00	3,260.24	2.26	100	100.3	2	2.7	5			BD		
30	07:00	1,469.14	1.02	97	100.5	2	2.7	5			TY		
31	07:00	1,506.52	1.05	95	97.0	2	2.7	5			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	81.00	10/04/2022	7.82	10/04/2022	511.0	10/04/2022	10/06/2022		
2	80.80	10/11/2022	7.87	10/11/2022	425.0	10/11/2022	11/02/2022		
3	69.80	10/18/2022	7.55	10/18/2022	1,010.0	10/18/2022	11/02/2022		
4	75.70	10/25/2022	7.88	10/25/2022	642.0	10/25/2022	11/02/2022		
5									

No monthly injectate samples required.