Facility Well Name CHS Refinery #1 **UIC Permit #** KS-01-113-008 **Month** November **Year** 2021

Submitted 12/20/2021 **Approved** 12/30/2021 **KOLAR Document ID** 1603655

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

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	14,165	9.84	98	96	2.6	1.6	
Monthly Maximum	19,524	13.55	114	115	13.0	12.2	
Monthly Minimum	8,339	5.79	90	89	1.0	0.6	
Monthly Total	424,948						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
121.88	85.95	12.47	0.33

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	14,665.02	10.19	96	94.3	2	1.1	7			MW		
2	07:00	13,581.60	9.43	90	89.4	2	0.9	7			MW		
3	07:00	13,888.81	9.64	90	92.7	2	1.0	7			MB		
4	07:00	14,979.10	10.40	94	92.8	2	1.0	8			MB		
5	07:00	9,925.38	6.88	94	91.9	2	1.1	7			MW		
6	07:00	18,398.05	12.79	108	105.5	13	12.2	4			MW		
7	07:00	14,305.38	9.93	114	114.5	3	1.4	8			MW		
8	07:00	12,810.86	8.90	106	104.1	2	0.9	6			MH		
9	07:00	14,139.76	9.81	105	103.2	2	1.0	7			MH		
10	07:00	18,627.43	12.93	112	110.7	2	1.3	8			MW		
11	07:00	12,029.83	8.36	100	99.1	2	1.2	7			BF		
12	07:00	8,358.52	5.81	95	92.3	2	0.9	5			MH		
13	07:00	12,330.52	8.57	97	94.9	2	0.8	5			MH		
14	07:00	15,120.69	10.50	95	92.2	2	0.8	5			MH		
15	07:00	16,954.98	11.79	95	92.9	2	1.0	4			TY		
16	07:00	10,993.71	7.64	102	98.0	2	0.9	7			TY		
17	07:00	8,765.48	6.10	92	88.7	2	0.6	4			MH		
18	07:00	8,910.52	6.19	94	92.3	2	0.8	4			MH		
19	07:00	8,492.90	5.90	95	92.1	2	0.6	4			TY		
20	07:00	8,338.98	5.79	96	92.9	2	0.7	3			TY		
21	07:00	10,338.86	7.19	94	91.2	2	0.6	3			TY		
22	07:00	16,144.12	11.21	98	92.1	1	0.7	3			MB		
23	07:00	17,676.33	12.29	105	103.4	2	1.1	5			MB		
24	07:00	16,652.57	11.57	104	101.9	2	0.9	5			TY		
25	07:00	15,921.60	11.05	98	93.4	2	0.8	5			TY		
26	07:00	18,475.19	12.83	90	89.9	2	0.9	4			MB		
27	07:00	18,011.31	12.50	90	90.3	3	1.6	6			MB		
28	07:00	18,403.88	12.79	94	91.6	2	1.1	5			MB		
29	07:00	19,524.33	13.55	99	92.9	8	7.7	7			MW		
30	07:00	18,182.40	12.62	98	92.0	2	1.3	6			MW		
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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	87.00	11/02/2021	7.29	11/02/2021	892.0	11/02/2021	11/20/2021		
2	88.40	11/09/2021	7.15	11/09/2021	992.0	11/09/2021	11/20/2021		
3	83.00	11/16/2021	7.47	11/16/2021	747.0	11/16/2021	12/02/2021		
4	90.30	11/23/2021	7.44	11/23/2021	604.0	11/23/2021	12/02/2021		
5	87.00	11/30/2021	7.38	11/30/2021	817.0	11/30/2021	12/06/2021		

No monthly injectate samples required.