Facility Well Name CHS Refinery #2 **UIC Permit #** KS-01-113-009 **Month** October **Year** 2021

Submitted 11/17/2021 **Approved** 11/29/2021 **KOLAR Document ID** 1599486

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	12,004	8.33	98	97	3.1	2.0	
Monthly Maximum	16,371	11.36	110	108	9.0	8.1	
Monthly Minimum	5,784	4.02	90	87	2.0	0.5	
Monthly Total	372,109						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
117.13	85.86	13.56	0.41

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	8,386.62	5.83	100	98.1	9	8.1	5			MB		
2	07:00	7,931.67	5.50	102	99.3	4	2.5	7			MB		
3	07:00	6,957.60	4.83	100	96.9	4	3.4	8			MB		
4	07:00	6,554.40	4.55	90	88.6	2	0.7	3			MW		
5	07:00	5,784.00	4.02	90	88.3	2	0.8	3			MW		
6	07:00	8,523.10	5.93	90	87.4	2	0.5	2			MB		
7	07:00	5,837.14	4.05	94	89.7	4	2.2	3			MB		
8	07:00	13,368.33	9.29	105	105.0	3	1.5	7			BF		
9	07:00	12,942.52	8.98	104	103.9	2	1.3	8			MW		
10	07:00	13,670.05	9.50	110	107.9	4	1.9	8			MW		
11	07:00	15,456.00	10.74	104	100.5	6	4.3	9			MH		
12	07:00	15,470.05	10.74	106	104.6	3	1.5	8			MH		
13	07:00	13,681.71	9.50	98	96.4	2	1.8	7			MW		
14	07:00	15,858.52	11.02	98	96.5	6	4.7	7			MW		
15	07:00	16,370.74	11.36	98	97.6	4	4.5	8			MH		
16	07:00	15,920.24	11.05	93	92.3	3	1.7	7			MH		
17	07:00	13,508.57	9.38	97	95.8	2	1.1	8			MH		
18	07:00	14,852.57	10.31	100	97.5	2	1.6	9			JC		
19	07:00	14,955.76	10.38	100	94.5	3	1.6	7			JC		
20	07:00	10,144.45	7.05	100	98.1	6	4.5	8			MH		
21	07:00	7,725.26	5.36	90	86.9	2	0.7	3			MH		
22	07:00	10,836.00	7.52	92	89.4	2	1.0	2			TY		
23	07:00	11,114.05	7.71	104	102.6	2	1.0	5			TY		
24	07:00	11,122.29	7.71	100	96.4	2	1.9	6			TY		
25	07:00	10,675.88	7.40	98	97.9	2	0.9	6			MB		
26	07:00	11,103.10	7.71	96	94.5	2	0.9	4			MB		
27	07:00	15,035.31	10.45	100	104.8	3	1.7	7			JC		
28	07:00	15,368.57	10.67	90	93.5	2	1.3	5			JC		
29	07:00	14,495.31	10.07	95	93.5	3	1.2	4			MB		
30	07:00	15,050.05	10.45	99	98.1	2	0.9	6			MB		
31	07:00	13,409.14	9.31	98	97.3	2	1.1	7			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	10/05/2021	7.07	10/05/2021	1,120.0	10/05/2021	10/22/2021		
2	95.50	10/12/2021	7.03	10/12/2021	547.0	10/12/2021	10/22/2021		
3	88.00	10/19/2021	7.35	10/19/2021	691.0	10/19/2021	11/05/2021		
4	90.80	10/26/2021	7.12	10/26/2021	840.0	10/26/2021	11/05/2021		
5									

No monthly injectate samples required.