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

Submitted 08/19/2021 **Approved** 08/19/2021 **KOLAR Document ID** 1586992

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	13,260	9.21	98	96	3.6	2.8	
Monthly Maximum	23,070	16.02	117	116	13.0	11.6	
Monthly Minimum	3,768	2.62	77	75	2.0	1.2	
Monthly Total	411,073						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
130.46	75.26	13.15	1.13

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	9,280.45	6.45	84	84.3	2	1.8	11			TY		
2	07:00	16,821.60	11.69	100	96.3	13	11.6	12			JC		
3	07:00	10,823.31	7.52	90	91.7	2	1.7	11			JC		
4	07:00	14,850.52	10.31	100	92.5	3	1.6	10			JC		
5	07:00	8,039.31	5.57	82	79.2	2	1.5	6			MB		
6	07:00	14,474.74	10.05	80	80.6	2	1.3	6			MB		
7	07:00	6,595.88	4.57	88	86.6	2	1.3	6			TP		
8	07:00	7,445.48	5.17	90	88.0	2	1.2	6			MH		
9	07:00	5,475.43	3.81	90	89.5	3	1.5	7			MB		
10	07:00	4,612.81	3.21	90	85.6	2	1.5	6			MB		
11	07:00	8,367.43	5.81	92	90.5	2	1.4	5			MB		
12	07:00	14,816.24	10.29	94	93.3	2	1.3	6			MD		
13	07:00	14,190.86	9.86	110	111.7	3	1.6	12			WK		
14	07:00	19,661.83	13.64	112	109.4	7	5.1	11			MD		
15	07:00	15,950.05	11.07	114	114.6	4	2.3	13			MD		
16	07:00	13,052.57	9.07	110	107.4	3	1.7	12			BF		
17	07:00	10,883.31	7.55	117	115.9	2	1.8	14			BF		
18	07:00	14,005.71	9.74	113	111.3	2	1.7	13			BF		
19	07:00	3,767.67	2.62	88	85.0	2	1.7	7			MH		
20	07:00	11,561.14	8.02	77	75.4	2	1.6	4			MH		
21	07:00	18,581.83	12.90	110	107.5	2	1.8	11			BF		
22	07:00	17,239.88	11.98	110	109.4	3	2.1	14			BF		
23	07:00	19,851.76	13.79	110	107.6	3	2.0	13			MH		
24	07:00	19,704.33	13.69	106	102.1	4	2.8	12			MH		
25	07:00	16,428.00	11.40	106	102.8	3	2.3	13			MH		
26	07:00	18,246.86	12.67	102	100.0	2	3.0	12			TY		
27	07:00	22,693.02	15.76	109	99.6	12	8.9	13			TY		
28	07:00	23,070.17	16.02	107	104.8	12	10.6	13			MH		
29	07:00	16,358.40	11.36	104	100.7	4	2.9	12			MH		
30	07:00	7,537.38	5.24	84	83.1	2	2.1	7			TY		
31	07:00	6,685.38	4.64	82	82.2	2	2.1	6			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	86.50	07/06/2021	7.55	07/06/2021	960.0	07/06/2021	07/21/2021		
2	96.00	07/13/2021	6.91	07/13/2021	657.0	07/13/2021	07/29/2021		
3	76.90	07/20/2021	7.30	07/20/2021	1,200.0	07/20/2021	07/29/2021		
4	96.30	07/27/2021	7.32	07/27/2021	601.0	07/27/2021	08/06/2021		
5									

No monthly injectate samples required.