Facility Well Name CHS Refinery #1 **UIC Permit #** KS-01-113-008 **Month** July **Year** 2020

Submitted 08/25/2020 **Approved** 08/25/2020 **KOLAR Document ID** 1527759

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	15,322	10.64	98	95	5.5	4.8	
Monthly Maximum	20,694	14.38	103	102	14.0	12.1	
Monthly Minimum	4,820	3.36	92	88	2.0	0.9	
Monthly Total	474,984						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
120.69	86.70	13.99	0.77

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	15,593.31	10.83	102	97.4	2	0.9	14			MH		
2	07:00	14,968.83	10.40	96	93.3	2	1.0	12			MH		
3	07:00	15,762.05	10.95	100	99.3	5	5.0	12			JC		
4	07:00	16,647.29	11.57	94	89.8	2	1.1	11			JC		
5	07:00	14,975.05	10.40	94	88.2	2	1.6	12			JC		
6	07:00	15,880.76	11.02	92	90.8	2	1.7	12			JM		
7	07:00	13,197.57	9.17	100	96.9	2	1.2	13			JM		
8	07:00	15,264.62	10.60	100	96.0	2	1.4	13			JC		
9	07:00	17,813.36	12.38	100	94.2	6	5.5	12			JC		
10	07:00	16,023.26	11.12	103	99.0	10	9.8	13			JM		
11	07:00	14,055.10	9.76	99	95.6	3	2.1	13			RM		
12	07:00	15,218.60	10.57	102	99.2	2	1.6	14			RM		
13	07:00	4,820.31	3.36	102	102.1	4	2.8	15			MW		
14	07:00	9,565.24	6.64	95	90.0	2	1.6	11			MW		
15	07:00	19,043.55	13.21	98	92.8	11	10.0	12			RM		
16	07:00	14,280.69	9.93	96	92.8	14	12.1	10			RM		
17	07:00	14,032.57	9.74	94	90.2	2	0.9	10			MW		
18	07:00	14,105.52	9.79	102	100.0	4	3.2	13			MW		
19	07:00	18,737.29	13.02	100	96.5	3	2.7	12			MW		
20	07:00	17,734.90	12.31	100	96.3	6	5.2	12			MH		
21	07:00	20,693.98	14.38	98	95.3	9	8.8	12			MH		
22	07:00	17,215.83	11.95	98	92.7	12	11.6	11			MW		
23	07:00	16,457.07	11.43	100	96.6	14	12.0	12			MW		
24	07:00	16,585.52	11.52	97	93.3	6	5.7	11			MH		
25	07:00	14,762.95	10.26	102	98.4	2	1.9	12			MH		
26	07:00	14,334.17	9.95	98	94.8	9	8.1	12			MH		
27	07:00	15,637.79	10.86	96	92.5	11	10.5	13			JC		
28	07:00	15,369.38	10.67	98	92.2	2	1.2	6			JC		
29	07:00	16,583.83	11.52	97	94.0	8	7.2	10			MH		
30	07:00	15,277.83	10.62	98	94.7	9	8.4	12			MH		
31	07:00	14,345.36	9.95	98	91.9	3	2.2	10			JC		

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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	76.00	07/07/2020	7.22	07/07/2020	505.0	07/07/2020	07/21/2020		
2	79.00	07/14/2020	7.93	07/14/2020	837.0	07/14/2020	07/21/2020		
3	96.00	07/21/2020	7.58	07/21/2020	530.0	07/21/2020	07/30/2020		
4	90.00	07/28/2020	8.09	07/28/2020	542.0	07/28/2020	08/07/2020		
5									

No monthly injectate samples required.