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

Submitted 05/13/2020 **Approved** 05/14/2020 **KOLAR Document ID** 1515746

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	20,788	14.43	103	100	3.9	3.2	
Monthly Maximum	24,991	17.36	116	113	12.0	11.4	
Monthly Minimum	15,816	10.98	93	91	2.0	0.7	
Monthly Total	623,635						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
125.18	87.39	12.18	0.57

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	18,804.62	13.05	102	100.2	2	0.7	10			ZB		
2	07:00	16,396.81	11.38	110	111.0	5	4.0	11			ZB		
3	07:00	15,942.60	11.07	95	93.2	2	1.0	9			MH		
4	07:00	16,931.05	11.76	100	96.3	2	1.0	9			MH		
5	07:00	16,418.64	11.40	97	94.5	2	1.6	9			MH		
6	07:00	20,657.88	14.36	100	100.2	2	1.0	9			JC		
7	07:00	21,173.43	14.71	102	102.6	2	1.4	10			JC		
8	07:00	22,645.62	15.71	106	104.7	2	1.4	10			MH		
9	07:00	21,482.50	14.93	102	99.3	2	1.5	10			MH		
10	07:00	19,902.40	13.81	100	96.2	2	1.3	9			JC		
11	07:00	20,961.05	14.55	102	101.2	2	1.0	9			JC		
12	07:00	21,880.50	15.19	104	103.4	3	1.9	11			JC		
13	07:00	22,055.02	15.31	93	91.4	2	1.6	8			BF		
14	07:00	19,832.05	13.76	102	99.1	12	10.9	9			BF		
15	07:00	20,506.19	14.24	98	96.0	2	1.4	8			JC		
16	07:00	20,576.50	14.29	104	103.5	2	1.9	9			JC		
17	07:00	21,115.33	14.67	98	96.6	2	1.5	9			BF		
18	07:00	21,387.81	14.86	100	99.4	2	1.8	9			BF		
19	07:00	21,972.81	15.26	108	106.8	2	1.3	10			BF		
20	07:00	22,672.90	15.74	105	103.1	3	1.7	8			MW		
21	07:00	23,096.38	16.05	105	102.6	2	1.3	10			MW		
22	07:00	21,972.21	15.26	116	113.3	11	10.7	11			RM		
23	07:00	21,530.52	14.95	108	105.6	2	1.4	10			RM		
24	07:00	22,871.26	15.88	98	93.2	2	1.5	11			MW		
25	07:00	20,532.81	14.26	99	93.5	11	10.4	10			MW		
26	07:00	21,127.21	14.67	100	94.8	12	11.4	11			MW		
27	07:00	24,185.29	16.79	104	100.4	12	11.3	11			MH		
28	07:00	24,991.36	17.36	108	105.1	7	6.1	12			MH		
29	07:00	24,196.19	16.81	98	93.9	2	1.4	11			MW		
30	07:00	15,816.19	10.98	115	109.9	2	1.0	14			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	75.00	04/07/2020	7.37	04/07/2020	891.0	04/07/2020	04/27/2020		
2	86.00	04/14/2020	7.00	04/14/2020	613.0	04/14/2020	04/25/2020		
3	81.00	04/21/2020	8.41	04/21/2020	725.0	04/21/2020	05/05/2020		
4	83.40	04/28/2020	7.88	04/28/2020	635.0	04/28/2020	05/05/2020		
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No monthly injectate samples required.