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

Submitted 06/18/2020 **Approved** 06/18/2020 **KOLAR Document ID** 1519891

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 13

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	14,539	10.09	102	98	3.7	2.9	
Monthly Maximum	24,562	17.05	120	114	13.0	12.5	
Monthly Minimum	8,250	5.74	92	87	1.0	0.9	
Monthly Total	189,010						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
122.84	88.81	12.92	0.66

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	24,562.12	17.05	104	102.0	13	12.5	11			MH		
2	07:00	9,910.05	6.88	106	102.3	1	1.8	12			MH		
3	07:00			102	99.2	2	1.4	12			MH		
4	07:00			102	97.4	3	1.8	11			JC		
5	07:00			100	93.7	3	2.1	11			JC		
6	07:00			98	94.2	3	2.6	11			MH		
7	07:00			98	93.7	4	2.8	11			MH		
8	07:00			98	92.3	4	3.3	11			JC		
9	07:00			98	91.4	5	3.7	11			JC		
10	07:00			96	90.8	5	4.0	11			JC		
11	07:00			96	91.7	5	4.4	11			BF		
12	07:00			92	90.3	5	4.7	10			BF		
13	07:00			96	87.3	4	3.4	10			JC		
14	07:00			100	96.9	2	0.9	11			JC		
15	07:00			102	97.1	2	1.3	11			RM		
16	07:00			101	96.4	3	1.8	11			RM		
17	07:00			97	94.7	3	2.3	11			BF		
18	07:00			98	93.1	4	2.8	11			MW		
19	07:00			99	94.4	5	3.3	11			MW		
20	07:00			98	95.4	5	3.7	11			BF		
21	07:00	8,249.74	5.74	99	95.9	5	4.1	11			BF		
22	07:00	12,689.43	8.81	110	106.5	2	1.1	13			MW		
23	07:00	14,691.19	10.19	115	109.1	2	1.0	13			MW		
24	07:00	16,506.64	11.45	120	113.8	5	4.0	14			MW		
25	07:00	16,127.88	11.19	112	108.3	8	7.1	14			MH		
26	07:00	12,013.50	8.33	104	101.0	2	1.1	12			MH		
27	07:00	11,739.48	8.14	108	103.8	2	1.0	13			MW		
28	07:00	11,224.64	7.79	118	112.0	2	1.1	14			MW		
29	07:00	15,566.14	10.81	100	96.5	3	1.8	10			MH		
30	07:00	17,888.93	12.43	105	101.6	2	1.1	12			MH		
31	07:00	17,840.71	12.38	104	100.5	2	1.3	12			MH		

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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	90.00	05/05/2020	7.70	05/05/2020	618.0	05/05/2020	05/28/2020		
2									
3	89.90	05/19/2020	7.89	05/19/2020	967.0	05/19/2020	06/02/2020		
4	94.80	05/26/2020	7.22	05/26/2020	408.0	05/26/2020	06/05/2020		
5									

No monthly injectate samples required.