Facility Well Name CHS Refinery #4 **UIC Permit #** KS-01-113-011 **Month** April **Year** 2020

Submitted 05/26/2020 **Approved** 05/26/2020 **KOLAR Document ID** 1515749

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 7

Barrels per Day Maximum: 34,286

			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	17,836	12.38	97	96	4.0	2.0	
Monthly Maximum	22,682	15.76	120	120	6.0	4.0	
Monthly Minimum	8,468	5.88	90	92	2.0	0.2	
Monthly Total	124,852						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
134.24	87.99	4.23	0.00

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	22,500.95	15.62	93	92.5	3	0.7	12			ZB		
2	07:00	22,485.90	15.62	100	100.9	3	0.8	13			ZB		
3	07:00	22,352.57	15.52	95	94.1	3	0.9	9			MH		
4	07:00	22,682.33	15.76	98	96.7	3	0.6	8			MH		
5	07:00	8,468.26	5.88	102	102.0	2	0.2	12			MH		
6	07:00			100	97.1	3	0.4	13			JC		
7	07:00			96	91.8	3	0.6	14			JC		
8	07:00			94	93.4	3	0.9	14			MH		
9	07:00			94	93.6	3	1.1	15			MH		
10	07:00			96	94.7	2	1.3	16			JC		
11	07:00			98	96.8	2	1.5	15			JC		
12	07:00			100	97.8	2	1.6	14			JC		
13	07:00			94	94.7	4	2.1	16			BF		
14	07:00			94	94.5	4	2.3	16			BF		
15	07:00			98	94.7	5	2.6	16			JC		
16	07:00			99	94.7	6	2.7	16			JC		
17	07:00			92	93.7	5	2.9	16			BF		
18	07:00			92	94.0	5	2.9	16			BF		
19	07:00			92	92.4	5	3.0	15			BF		
20	07:00			96	92.8	5	3.2	16			MW		
21	07:00			97	93.1	5	3.3	16			MW		
22	07:00			94	92.3	6	3.5	16			RM		
23	07:00			90	92.5	6	3.5	16			RM		
24	07:00			95	92.6	6	3.6	16			MW		
25	07:00			97	93.4	6	3.8	16			MW		
26	07:00			96	93.6	6	3.9	16			MW		
27	07:00			93	92.1	6	4.0	15			MH		
28	07:00			102	103.0	2	0.2	13			MH		
29	07:00	8,759.62	6.07	100	105.2	2	0.2	15			MW		
30	07:00	17,602.31	12.21	120	120.1	3	0.9	16			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	66.00	04/07/2020	7.60	04/07/2020	729.0	04/07/2020	04/25/2020		
2									
3									
4	82.90	04/28/2020	7.96	04/28/2020	779.0	04/28/2020	05/05/2020		
5									

No monthly injectate samples required.