Facility Well Name CHS Refinery #3 **UIC Permit #** KS-01-113-010 **Month** May **Year** 2020

Submitted 06/17/2020 **Approved** 06/18/2020 **KOLAR Document ID** 1519893

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	1,680	1.17	98	98	5.0	4.0	
Monthly Maximum	3,597	2.50	105	107	16.0	16.6	
Monthly Minimum	583	0.40	84	85	2.0	0.8	
Monthly Total	52,093						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
113.41	84.43	18.31	0.63

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	2,961.40	2.05	102	102.4	6	5.7	7			MH		
2	07:00	2,031.33	1.40	101	102.4	6	5.3	7			MH		
3	07:00	1,625.12	1.12	100	100.3	7	6.5	7			MH		
4	07:00	1,145.95	0.79	100	99.8	5	4.6	6			JC		
5	07:00	862.33	0.60	96	93.6	5	3.6	5			JC		
6	07:00	2,861.33	1.98	100	98.3	2	1.1	6			MH		
7	07:00	3,107.21	2.17	96	95.9	2	1.5	6			MH		
8	07:00	2,842.43	1.98	96	93.1	2	1.0	6			JC		
9	07:00	2,999.19	2.07	96	93.3	16	16.6	5			JC		
10	07:00	2,682.81	1.86	98	93.6	10	3.2	5			JC		
11	07:00	3,597.36	2.50	92	93.9	8	7.8	6			BF		
12	07:00	1,960.21	1.36	84	84.7	2	1.5	4			BF		
13	07:00	2,078.60	1.45	98	96.1	7	6.2	4			JC		
14	07:00	583.12	0.40	99	97.9	5	3.8	3			JC		
15	07:00	1,608.21	1.12	102	102.2	5	4.4	5			RM		
16	07:00	705.19	0.50	98	100.6	6	6.4	5			RM		
17	07:00	1,186.45	0.83	99	100.3	2	1.3	5			BF		
18	07:00	1,362.45	0.95	98	98.7	7	6.5	5			MW		
19	07:00	827.43	0.57	98	97.0	7	5.5	5			MW		
20	07:00	713.40	0.50	97	98.4	8	7.3	4			BF		
21	07:00	646.12	0.45	98	99.3	7	5.8	4			BF		
22	07:00	771.48	0.55	98	99.2	5	3.7	4			MW		
23	07:00	1,063.12	0.74	97	97.6	3	1.3	4			MW		
24	07:00	2,049.60	1.43	103	106.7	3	1.6	7			MW		
25	07:00	1,627.50	1.12	102	102.5	2	1.3	6			MH		
26	07:00	1,727.71	1.19	94	95.9	2	1.4	6			MH		
27	07:00	1,345.86	0.93	98	95.7	4	2.5	5			MW		
28	07:00	846.43	0.60	98	97.5	4	2.9	5			MW		
29	07:00	602.12	0.43	94	95.5	2	0.8	5			MH		
30	07:00	1,620.98	1.12	100	100.6	2	1.9	5			MH		
31	07:00	2,050.57	1.43	105	103.9	2	1.1	7			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	74.00	05/05/2020	7.89	05/05/2020	359.0	05/05/2020	05/28/2020		
2	65.00	05/12/2020	8.55	05/12/2020	377.0	05/12/2020	05/28/2020		
3	70.00	05/19/2020	8.32	05/19/2020	387.0	05/19/2020	06/02/2020		
4	74.30	05/26/2020	7.54	05/26/2020	398.0	05/26/2020	06/05/2020		
5									

No monthly injectate samples required.