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

Submitted 05/13/2020 **Approved** 05/14/2020 **KOLAR Document ID** 1515748

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	2,259	1.57	96	97	5.4	4.9	
Monthly Maximum	3,761	2.62	108	109	17.0	19.1	
Monthly Minimum	347	0.24	84	86	2.0	0.9	
Monthly Total	67,776						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
119.89	84.95	19.71	0.50

Comments:

CHS Refinery #3 04/2020

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	2,523.26	1.76	99	98.2	3	2.2	6			ZB		
2	07:00	776.71	0.55	98	95.4	3	2.4	4			ZB		
3	07:00	1,045.79	0.74	86	86.3	2	1.2	3			MH		
4	07:00	1,483.62	1.02	88	87.0	3	2.2	3			MH		
5	07:00	2,819.40	1.95	98	99.3	5	4.2	5			MH		
6	07:00	546.90	0.38	100	102.8	13	13.1	5			JC		
7	07:00	346.52	0.24	98	99.3	2	1.2	4			JC		
8	07:00	2,531.12	1.76	108	108.9	2	1.7	7			MH		
9	07:00	2,840.81	1.98	100	100.6	3	1.9	7			MH		
10	07:00	2,873.62	2.00	96	94.0	3	1.7	5			JC		
11	07:00	2,908.21	2.02	98	98.8	2	1.2	5			JC		
12	07:00	2,922.55	2.02	104	107.9	4	2.5	8			JC		
13	07:00	3,559.86	2.48	88	87.9	2	1.2	4			BF		
14	07:00	3,609.19	2.50	90	91.6	2	1.5	4			BF		
15	07:00	3,012.71	2.10	90	91.8	7	5.8	4			JC		
16	07:00	2,959.21	2.05	98	97.3	13	12.6	5			JC		
17	07:00	2,460.31	1.71	84	86.5	15	19.1	3			BF		
18	07:00	1,603.50	1.12	89	89.5	2	1.5	3			BF		
19	07:00	1,428.76	1.00	96	98.7	3	2.2	5			BF		
20	07:00	957.79	0.67	97	94.5	4	2.7	4			MW		
21	07:00	986.29	0.69	98	97.2	17	17.0	4			MW		
22	07:00	2,444.12	1.69	100	101.1	2	0.9	6			RM		
23	07:00	2,203.14	1.52	98	97.4	2	0.9	5			RM		
24	07:00	2,163.14	1.50	99	100.4	2	0.9	7			MW		
25	07:00	2,558.79	1.79	95	94.2	6	5.7	5			MW		
26	07:00	3,491.05	2.43	95	96.2	16	16.0	6			ZB		
27	07:00	3,760.69	2.62	98	100.1	17	17.0	6			MH		
28	07:00	2,576.76	1.79	97	99.5	2	1.3	6			MH		
29	07:00	2,166.31	1.50	98	96.1	4	3.0	5			MW		
30	07:00	2,215.36	1.55	99	98.0	2	1.4	6			MW		
31													

CHS Refinery #3 04/2020

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	72.00	04/07/2020	7.87	04/07/2020	600.0	04/07/2020	04/25/2020		
2	75.00	04/14/2020	7.05	04/14/2020	680.0	04/14/2020	04/25/2020		
3	72.00	04/21/2020	8.26	04/21/2020	591.0	04/21/2020	04/21/2020		
4	78.40	04/28/2020	7.62	04/28/2020	414.0	04/28/2020	05/05/2020		
5									

No monthly injectate samples required.