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

Submitted 08/25/2020 **Approved** 08/25/2020 **KOLAR Document ID** 1527761

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 28

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	1,124	0.78	104	106	7.2	6.3	
Monthly Maximum	3,506	2.43	117	114	18.0	16.9	
Monthly Minimum	0	0.00	95	97	2.0	1.5	
Monthly Total	34,849						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
132.11	96.61	18.29	0.77

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	1,087.93	0.76	95	96.7	3	1.7	7			MH		
2	07:00	1,280.45	0.88	102	102.7	6	5.3	9			MH		
3	07:00	1,328.95	0.93	100	101.1	2	1.5	9			JC		
4	07:00	1,215.45	0.83	96	99.5	3	2.4	9			JC		
5	07:00	1,090.88	0.76	100	100.5	5	4.1	9			JC		
6	07:00	749.93	0.52	100	101.1	4	3.1	9			JM		
7	07:00	268.02	0.19	103	106.4	5	4.1	8			JM		
8	07:00	762.40	0.52	100	105.4	5	4.1	8			JC		
9	07:00	255.43	0.17	102	105.3	4	3.3	8			JC		
10	07:00	342.60	0.24	102	104.9	4	3.1	7			JM		
11	07:00	518.90	0.36	102	104.5	7	6.4	7			RM		
12	07:00	0.00	0.00	102	105.2	11	10.4	7			RM		
13	07:00	536.79	0.38	105	106.3	14	13.2	7			MW		
14	07:00	77.21	0.05	102	105.6	7	6.0	7			MW		
15	07:00	0.00	0.00	104	104.2	14	13.2	7			RM		
16	07:00	0.00	0.00	104	104.5	14	13.3	7			RM		
17	07:00	1,484.19	1.02	105	105.3	14	13.2	7			MW		
18	07:00	1,572.50	1.10	115	113.3	3	1.6	9			MW		
19	07:00	3,489.24	2.43	117	113.9	18	16.9	9			MW		
20	07:00	654.57	0.45	114	111.9	8	7.2	10			MH		
21	07:00	2,453.14	1.71	106	105.6	4	2.9	9			MH		
22	07:00	3,506.45	2.43	110	111.6	10	8.9	9			MW		
23	07:00	3,022.00	2.10	110	112.2	3	1.7	10			MW		
24	07:00	2,261.10	1.57	112	110.9	4	3.2	10			MH		
25	07:00	124.40	0.10	106	106.2	11	9.8	9			MH		
26	07:00	596.36	0.40	104	104.5	10	9.6	8			MH		
27	07:00	766.74	0.52	104	105.2	6	5.3	8			JC		
28	07:00	617.38	0.43	102	104.9	6	5.2	8			JC		
29	07:00	520.05	0.36	104	104.3	7	6.0	7			MH		
30	07:00	1,609.36	1.12	105	104.6	6	4.8	7			MH		
31	07:00	2,656.19	1.83	106	109.3	5	5.2	8			JC		

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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	72.00	07/07/2020	7.60	07/07/2020	271.0	07/07/2020	07/21/2020		
2	81.00	07/14/2020	7.80	07/14/2020	358.0	07/14/2020	07/21/2020		
3	87.10	07/21/2020	7.62	07/21/2020	267.0	07/21/2020	07/30/2020		
4	82.00	07/28/2020	8.34	07/28/2020	175.0	07/28/2020	08/07/2020		
5									

No monthly injectate samples required.