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

Submitted 11/18/2020 **Approved** 11/20/2020 **KOLAR Document ID** 1536686

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	1,010	0.70	107	107	8.0	7.3	
Monthly Maximum	2,181	1.52	118	118	14.0	13.5	
Monthly Minimum	0	0.00	100	103	2.0	0.8	
Monthly Total	31,295						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
125.56	100.26	17.85	0.60

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	1,622.74	1.12	108	105.7	3	2.1	6			MH		
2	07:00	575.31	0.40	102	103.1	5	4.1	5			JM		
3	07:00	2,070.52	1.43	102	103.8	3	1.7	4			JM		
4	07:00	1,253.14	0.88	103	105.3	5	4.2	5			JM		
5	07:00	1,959.10	1.36	103	103.4	4	1.9	4			MW		
6	07:00	550.98	0.38	113	110.5	9	8.8	6			MW		
7	07:00	1,973.83	1.38	105	105.6	6	5.6	6			JM		
8	07:00	1,160.90	0.81	115	111.1	4	3.6	6			JM		
9	07:00	1,646.40	1.14	110	108.1	4	3.3	6			MW		
10	07:00	47.67	0.02	118	112.9	11	10.4	7			MW		
11	07:00	847.55	0.60	112	110.4	14	13.2	7			MW		
12	07:00	185.83	0.12	108	106.7	8	7.0	6			MH		
13	07:00	43.88	0.02	108	106.0	14	13.4	6			MH		
14	07:00	101.83	0.07	104	105.2	13	13.2	6			BF		
15	07:00	34.98	0.02	102	103.4	13	13.3	6			BF		
16	07:00	0.00	0.00	104	103.9	14	13.5	6			MH		
17	07:00	1,110.52	0.76	103	103.2	2	0.8	6			AS		
18	07:00	0.00	0.00	104	104.8	14	12.6	4			AS		
19	07:00	723.10	0.50	102	106.3	14	13.4	4			JC		
20	07:00	2,016.69	1.40	100	103.0	2	1.5	3			JC		
21	07:00	2,181.26	1.52	110	109.7	2	1.6	3			MH		
22	07:00	1,158.52	0.81	115	114.0	9	9.1	3			MH		
23	07:00	1,842.17	1.29	102	105.1	3	2.7	4			JC		
24	07:00	739.88	0.52	103	107.0	13	12.4	3			MD		
25	07:00	1,570.98	1.10	102	107.4	9	7.8	2			MD		
26	07:00	1,598.40	1.12	102	104.6	7	6.4	1			RM		
27	07:00	1,349.48	0.93	104	107.3	6	5.0	1			RM		
28	07:00	1,241.83	0.86	106	108.0	4	2.8	1			MD		
29	07:00	1,107.76	0.76	106	108.7	5	4.0	1			MD		
30	07:00	580.12	0.40	108	110.1	13	12.3	1			RM		
31	07:00	0.00	0.00	118	117.7	14	13.4	3			RM		

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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	10/06/2020	8.02	10/06/2020	229.0	10/06/2020	10/28/2020		
2	70.70	10/13/2020	7.85	10/13/2020	244.0	10/13/2020	10/28/2020		
3	64.00	10/20/2020	7.89	10/20/2020	235.0	10/20/2020	11/11/2020		
4	64.00	10/27/2020	7.84	10/27/2020	226.0	10/27/2020	11/11/2020		
5									

No monthly injectate samples required.