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

Submitted 09/23/2020 **Approved** 09/25/2020 **KOLAR Document ID** 1530922

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 26

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	1,247	0.87	106	108	6.8	6.4	
Monthly Maximum	3,292	2.29	118	119	14.0	13.2	
Monthly Minimum	0	0.00	100	104	2.0	1.4	
Monthly Total	38,663						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
130.28	102.54	17.50	0.68

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	1,498.33	1.05	102	106.1	3	2.3	8			JC		
2	07:00	1,506.14	1.05	104	106.4	5	3.1	7			JC		
3	07:00	2,082.38	1.45	102	104.3	3	3.7	7			RM		
4	07:00	1,347.19	0.93	102	104.8	5	4.1	7			RM		
5	07:00	3,291.74	2.29	102	106.3	3	1.9	7			JC		
6	07:00	1,834.93	1.29	110	111.2	3	2.2	9			JC		
7	07:00	2,154.02	1.50	108	110.4	3	2.5	8			RM		
8	07:00	0.00	0.00	110	111.3	7	6.8	9			RM		
9	07:00	0.00	0.00	103	106.7	14	13.2	8			JM		
10	07:00	347.71	0.24	104	105.7	14	13.2	8			MW		
11	07:00	1,731.69	1.21	103	104.8	9	8.8	7			MW		
12	07:00	2,386.29	1.67	111	113.3	2	1.6	9			JM		
13	07:00	1,948.83	1.36	118	116.2	2	1.7	9			JM		
14	07:00	3,011.24	2.10	117	114.4	3	1.9	9			BF		
15	07:00	2,270.33	1.57	118	118.5	2	1.6	11			BF		
16	07:00	970.02	0.67	110	109.3	9	8.8	9			MW		
17	07:00	1,250.48	0.86	108	106.2	3	2.2	8			MH		
18	07:00	0.00	0.00	106	105.0	14	12.9	8			MH		
19	07:00	1,065.12	0.74	102	104.2	6	5.1	7			MW		
20	07:00	393.50	0.26	105	106.9	11	10.0	7			MW		
21	07:00	1,586.74	1.10	108	108.5	3	1.8	7			AS		
22	07:00	0.00	0.00		106.1		12.3				AS		
23	07:00	207.62	0.14	105	106.2	14	13.2	7			AS		
24	07:00	0.00	0.00	102	104.2	14	13.2	7			JC		
25	07:00	641.45	0.45	104	105.0	14	13.2	7			JC		
26	07:00	1,407.88	0.98	106	107.0	3	2.6	7			MH		
27	07:00	774.29	0.55	106	107.5	4	3.0	7			MH		
28	07:00	233.24	0.17	102	105.0	13	12.7	8			JC		
29	07:00	67.36	0.05	100	103.7	12	12.1	7			JC		
30	07:00	2,936.10	2.05	102	106.0	2	1.4	6			JC		
31	07:00	1,718.33	1.19	112	114.2	5	4.6	9			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	82.00	08/04/2020	7.26	08/04/2020	177.0	08/04/2020	08/24/2020		
2	80.00	08/11/2020	7.27	08/11/2020	179.0	08/11/2020	08/24/2020		
3	81.10	08/18/2020	7.31	08/18/2020	202.0	08/18/2020	09/02/2020		
4	78.00	08/25/2020	7.51	08/25/2020	208.0	08/25/2020	09/02/2020		
5									

No monthly injectate samples required.