Facility Well Name CHS Refinery #1 **UIC Permit #** KS-01-113-008 **Month** November **Year** 2020

Submitted 12/15/2020 **Approved** 12/16/2020 **KOLAR Document ID** 1539221

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	9,798	6.81	106	104	3.0	2.3	
Monthly Maximum	12,669	8.81	118	111	10.0	9.5	
Monthly Minimum	8,040	5.60	100	97	1.0	1.0	
Monthly Total	293,945						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
115.32	96.20	14.24	0.79

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	11,190.17	7.76	100	100.5	2	1.1	6			JC		
2	07:00	12,055.19	8.38	100	99.6	2	1.3	6			JC		
3	07:00	11,429.83	7.93	100	97.4	2	1.6	6			JC		
4	07:00	11,926.29	8.29	102	99.1	2	1.4	6			MH		
5	07:00	11,199.76	7.79	102	100.0	2	1.3	7			MB		
6	07:00	11,161.38	7.76	108	105.3	9	8.2	8			MW		
7	07:00	10,349.83	7.19	106	101.2	10	9.5	8			MW		
8	07:00	12,092.90	8.40	100	96.9	2	1.4	7			MW		
9	07:00	11,271.10	7.83	106	102.4	9	8.7	7			MH		
10	07:00	9,348.33	6.50	109	107.2	6	5.2	8			MH		
11	07:00	8,527.88	5.93	105	102.7	2	1.1	7			MW		
12	07:00	8,095.88	5.62	118	111.0	2	1.4	7			MW		
13	07:00	8,604.00	5.98	113	110.6	2	1.3	6			AS		
14	07:00	8,256.33	5.74	112	109.7	2	1.3	5			AS		
15	07:00	8,600.90	5.98	107	104.0	2	1.6	5			MH		
16	07:00	8,919.10	6.19	109	104.1	2	1.5	5			JC		
17	07:00	9,135.76	6.33	106	105.4	1	1.2	6			JC		
18	07:00	8,918.05	6.19	105	101.8	2	1.2	6			MH		
19	07:00	8,497.71	5.90	105	102.4	2	1.0	6			MH		
20	07:00	8,040.00	5.60	100	98.4	3	1.4	6			JC		
21	07:00	9,229.38	6.40	104	101.0	2	1.6	6			JC		
22	07:00	9,636.00	6.69	102	102.1	2	1.4	6			JC		
23	07:00	9,520.45	6.62	102	101.1	2	1.6	7			DJ		
24	07:00	12,668.57	8.81	105	103.0	2	1.0	7			JM		
25	07:00	9,009.26	6.26	106	104.6	2	2.1	6			JC		
26	07:00	8,297.83	5.76	110	105.1	3	1.2	5			JC		
27	07:00	8,886.17	6.17	115	111.3	2	1.4	7			JM		
28	07:00	8,119.55	5.64	110	107.0	2	1.3	7			JM		
29	07:00	9,710.05	6.74	105	104.9	2	1.5	6			JM		
30	07:00	11,247.76	7.81	110	106.9	4	4.1	6			MW		
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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	11/03/2020	7.34	11/03/2020	763.0	11/03/2020	11/28/2020		
2	90.70	11/10/2020	7.18	11/10/2020	647.0	11/10/2020	11/28/2020		
3	87.00	11/17/2020	7.45	11/17/2020	631.0	11/17/2020	12/05/2020		
4	82.00	11/25/2020	7.52	11/25/2020	623.0	11/25/2020	12/05/2020		
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No monthly injectate samples required.