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

Submitted 09/23/2020 **Approved** 09/25/2020 **KOLAR Document ID** 1530920

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

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	11,138	7.73	96	91	2.2	1.3	
Monthly Maximum	15,487	10.76	102	98	3.0	2.0	
Monthly Minimum	7,320	5.10	90	87	2.0	0.9	
Monthly Total	345,264						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
111.29	86.96	13.61	0.72

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	15,487.00	10.76	102	98.1	3	1.5	10			JC		
2	07:00	14,601.76	10.14	100	93.8	3	1.1	10			JC		
3	07:00	11,496.81	7.98	92	87.9	2	1.1	9			RM		
4	07:00	8,172.83	5.67	100	97.2	3	1.9	10			RM		
5	07:00	8,122.74	5.64	98	91.0	2	1.2	8			JC		
6	07:00	7,320.02	5.10	98	96.2	2	1.4	8			JC		
7	07:00	8,333.90	5.79	92	87.6	2	1.6	8			RM		
8	07:00	9,294.60	6.45	92	88.8	2	1.6	8			RM		
9	07:00	9,466.29	6.57	98	91.3	3	1.4	9			JM		
10	07:00	9,563.69	6.64	90	87.5	2	1.5	8			MW		
11	07:00	8,992.45	6.24	100	95.0	2	1.2	9			MW		
12	07:00	9,670.57	6.71	97	91.6	2	0.9	9			JM		
13	07:00	10,497.02	7.29	90	87.4	2	1.0	8			JM		
14	07:00	9,786.62	6.79	94	92.6	2	1.2	9			BF		
15	07:00	9,603.38	6.67	94	92.7	2	1.1	9			BF		
16	07:00	9,077.67	6.31	100	95.8	2	1.1	10			MW		
17	07:00	11,986.93	8.33	96	92.6	2	1.0	8			AS		
18	07:00	11,008.74	7.64	95	91.6	2	1.0	9			AS		
19	07:00	12,230.98	8.50	97	90.4	2	1.0	8			MW		
20	07:00	9,985.17	6.93	100	93.9	3	2.0	9			MW		
21	07:00	12,895.40	8.95	92	88.0	2	1.1	8			AS		
22	07:00	13,032.67	9.05	96	92.7	2	1.4	8			AS		
23	07:00	14,655.81	10.17	91	87.6	2	1.4	7			AS		
24	07:00	14,461.14	10.05	98	90.4	2	1.0	8			JC		
25	07:00	14,854.24	10.31	90	87.7	2	1.2	7			JC		
26	07:00	12,919.83	8.98	94	90.2	2	1.1	8			MH		
27	07:00	12,302.90	8.55	95	91.0	2	0.9	8			MH		
28	07:00	12,243.36	8.50	96	87.9	2	1.1	8			JC		
29	07:00	9,032.43	6.26	100	94.2	2	1.8	9			JC		
30	07:00	9,384.57	6.52	98	92.1	2	1.4	8			JC		
31	07:00	14,782.31	10.26	94	90.8	2	1.1	8			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	98.00	08/04/2020	6.14	08/04/2020	505.0	08/04/2020	08/22/2020		
2	89.00	08/11/2020	6.95	08/11/2020	855.0	08/11/2020	08/22/2020		
3	95.30	08/18/2020	8.38	08/18/2020	633.0	08/18/2020	09/02/2020		
4	76.00	08/25/2020	7.27	08/25/2020	894.0	08/25/2020	09/03/2020		
5									

No monthly injectate samples required.