Facility Well Name CHS Refinery #1 **UIC Permit #** KS-01-113-008 **Month** May **Year** 2021

Submitted 06/23/2021 **Approved** 06/23/2021 **KOLAR Document ID** 1579039

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	9,424	6.54	104	101	6.7	5.9	
Monthly Maximum	13,427	9.33	120	119	15.0	14.3	
Monthly Minimum	4,040	2.81	95	93	2.0	1.3	
Monthly Total	292,131						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
122.77	91.58	15.04	0.80

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	9,771.10	6.79	99	96.4	9	8.2	6			MB		
2	07:00	9,114.86	6.33	101	97.9	3	1.9	7			AS		
3	07:00	9,186.17	6.38	95	93.0	3	1.4	7			MB		
4	07:00	8,725.02	6.05	96	93.6	2	1.6	6			MB		
5	07:00	8,457.26	5.88	100	97.5	3	2.0	6			MH		
6	07:00	9,286.98	6.45	99	96.4	2	1.7	6			MH		
7	07:00	8,437.38	5.86	98	93.5	2	1.5	6			JC		
8	07:00	8,772.69	6.10	106	95.9	2	1.6	6			JC		
9	07:00	7,794.86	5.40	100	97.4	3	2.1	6			JC		
10	07:00	8,216.90	5.71	97	95.3	2	1.6	6			RM		
11	07:00	4,039.55	2.81	102	99.3	2	1.3	7			RM		
12	07:00	5,020.12	3.48	100	93.6	2	1.5	3			JC		
13	07:00	7,155.76	4.98	98	94.2	2	1.9	3			JC		
14	07:00	5,564.24	3.86	97	93.3	3	1.9	3			MB		
15	07:00	5,503.55	3.83	101	99.5	3	1.8	4			MB		
16	07:00	7,963.88	5.52	104	103.7	3	1.7	4			MB		
17	07:00	12,989.48	9.02	117	113.8	15	14.1	8			MW		
18	07:00	13,108.12	9.10	120	115.4	15	14.2	9			MW		
19	07:00	13,426.98	9.33	118	113.8	15	13.6	9			MB		
20	07:00	10,382.74	7.21	100	95.1	5	4.2	4			RM		
21	07:00	10,046.05	6.98	95	93.1	3	1.9	3			MW		
22	07:00	12,257.48	8.52	120	118.5	15	13.9	10			MW		
23	07:00	12,609.95	8.76	120	117.1	9	8.6	10			MW		
24	07:00	12,253.02	8.50	116	114.0	8	7.3	10			MH		
25	07:00	7,238.74	5.02	112	109.3	2	1.5	10			MH		
26	07:00	4,443.43	3.10	100	96.4	2	1.5	4			MW		
27	07:00	10,177.38	7.07	106	104.8	14	13.9	6			MW		
28	07:00	12,079.19	8.38	102	99.8	15	14.3	6			AS		
29	07:00	12,830.74	8.90	104	100.5	15	13.9	8			AS		
30	07:00	12,545.14	8.71	105	101.8	15	13.7	9			AS		
31	07:00	12,732.33	8.83	100	102.1	14	13.5	9			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	90.00	05/04/2021	7.16	05/04/2021	955.0	05/04/2021	05/13/2021		
2	79.00	05/11/2021	7.49	05/11/2021	691.0	05/11/2021	06/09/2021		
3	95.00	05/18/2021	6.75	05/18/2021	543.0	05/18/2021	06/08/2021		
4	80.00	05/25/2021	7.38	05/25/2021	907.0	05/25/2021	06/08/2021		
5									

No monthly injectate samples required.