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

Submitted 09/23/2021 **Approved** 09/27/2021 **KOLAR Document ID** 1591917

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	9,435	6.55	97	93	6.7	5.8	
Monthly Maximum	11,335	7.88	109	106	15.0	13.5	
Monthly Minimum	0	0.00	90	88	2.0	1.1	
Monthly Total	292,476						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
107.54	84.50	25.82	0.90

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	7,098.52	4.93	90	88.7	2	1.1	6			TY		
2	07:00	7,201.38	5.00	92	92.3	2	1.2	6			MB		
3	07:00	7,205.14	5.00	97	90.2	2	1.1	5			MB		
4	07:00	7,057.71	4.90	98	90.0	2	1.1	6			JC		
5	07:00	7,218.17	5.02	96	88.8	2	1.4	6			JC		
6	07:00	7,357.38	5.12	90	88.3	2	1.4	6			MB		
7	07:00	8,194.98	5.69	92	89.9	2	1.3	6			MB		
8	07:00	11,078.05	7.69	100	96.3	5	4.4	10			MB		
9	07:00	10,740.69	7.45	101	99.5	3	1.7	8			BF		
10	07:00	10,822.29	7.52	109	105.5	13	12.6	12			BF		
11	07:00	11,124.33	7.71	102	97.9	6	5.7	11			MB		
12	07:00	11,055.10	7.67	100	95.0	6	5.6	12			MB		
13	07:00	11,160.69	7.76	100	95.4	5	4.2	12			MW		
14	07:00	10,192.45	7.07	93	91.6	2	1.5	11			BF		
15	07:00	10,405.71	7.24	94	90.3	14	13.0	12			MW		
16	07:00	10,726.29	7.45	96	93.5	4	2.5	12			AS		
17	07:00	10,737.60	7.45	97	93.6	15	13.5	12			MH		
18	07:00	10,342.62	7.19	90	89.9	14	13.2	11			MW		
19	07:00	10,346.74	7.19	92	89.9	4	3.7	11			MW		
20	07:00	9,206.74	6.40	92	88.2	2	1.2	12			AS		
21	07:00	10,702.29	7.43	103	99.7	10	9.7	11			AS		
22	07:00	11,070.86	7.69	102	98.6	13	11.9	11			MH		
23	07:00	11,335.19	7.88	100	97.4	7	6.5	10			TY		
24	07:00	10,989.26	7.64	94	91.4	11	10.4	11			TY		
25	07:00	10,793.14	7.50	94	90.9	4	3.6	11			MH		
26	07:00	10,734.17	7.45	95	91.5	4	3.5	11			MH		
27	07:00	10,953.26	7.60	95	91.0	14	13.0	11			TY		
28	07:00	11,145.95	7.74	100	92.6	9	8.7	12			JC		
29	07:00	11,057.14	7.69	96	88.4	10	8.9	12			JC		
30	07:00	4,422.52	3.07	98	93.9	13	11.9	12			MB		
31	07:00	0.00	0.00	95	89.8		1.8	7			MB		

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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	85.70	08/03/2021	7.06	08/03/2021	777.0	08/03/2021	08/20/2021		
2	93.00	08/10/2021	7.03	08/10/2021	715.0	08/10/2021	08/19/2021		
3	85.00	08/17/2021	7.20	08/17/2021	610.0	08/17/2021	08/25/2021		
4	83.00	08/24/2021	7.58	08/24/2021	608.0	08/24/2021	08/27/2021		
5	97.00	08/31/2021	7.14	08/31/2021	729.0	08/31/2021	09/09/2021		

No monthly injectate samples required.