Facility Well Name CHS Refinery #3 **UIC Permit #** KS-01-113-010 **Month** November **Year** 2021

Submitted 12/20/2021 **Approved** 12/30/2021 **KOLAR Document ID** 1603657

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	1,027	0.71	92	91	4.1	6.3	
Monthly Maximum	1,682	1.17	99	100	16.0	6.8	
Monthly Minimum	407	0.29	86	87	2.0	6.0	
Monthly Total	30,807						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
104.25	87.58	7.03	6.00

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	1,121.14	0.79	90	89.1	2	6.8	4			MW		
2	07:00	1,174.98	0.81	90	89.9	3	6.4	4			MW		
3	07:00	808.45	0.57	92	90.3	3	6.3	4			MB		
4	07:00	612.00	0.43	90	89.7	3	6.3	4			MB		
5	07:00	473.83	0.33	90	89.6	5	6.2	4			MW		
6	07:00	406.98	0.29	90	88.5	4	6.2	4			MW		
7	07:00	666.86	0.45	91	90.0	4	6.2	4			MW		
8	07:00	983.31	0.69	92	91.1	4	6.1	4			MH		
9	07:00	1,217.48	0.86	92	91.3	2	6.1	4			MH		
10	07:00	1,114.98	0.79	93	92.0	3	6.1	4			MW		
11	07:00	891.10	0.62	88	88.2	7	6.0	4			BF		
12	07:00	1,088.57	0.76	88	88.7	4	6.3	4			MH		
13	07:00	1,062.86	0.74	90	89.9	5	6.4	3			MH		
14	07:00	1,141.38	0.79	94	93.3	2	6.5	3			MH		
15	07:00	1,055.67	0.74	95	96.0	2	6.4	3			TY		
16	07:00	1,657.02	1.14	99	100.0	3	6.4	4			TY		
17	07:00	1,330.62	0.93	98	97.6	3	6.4	4			MH		
18	07:00	416.57	0.29	93	92.3	3	6.3	5			MH		
19	07:00	1,075.55	0.74	96	92.7	4	6.4	4			TY		
20	07:00	739.19	0.52	90	88.5	2	6.5	3			TY		
21	07:00	1,478.40	1.02	90	91.4	5	6.4	3			TY		
22	07:00	1,059.76	0.74	95	88.9	4	6.5	3			MB		
23	07:00	1,682.40	1.17	92	93.5	3	6.4	3			MB		
24	07:00	1,352.57	0.93	98	87.4	9	6.6	4			TY		
25	07:00	705.60	0.50	90	89.4	16	6.2	5			TY		
26	07:00	768.00	0.52	90	88.5	5	6.2	4			MB		
27	07:00	831.10	0.57	91	88.7	3	6.2	3			MB		
28	07:00	1,375.19	0.95	86	88.3	3	6.2	3			MB		
29	07:00	1,494.86	1.05	92	90.6	4	6.1	3			MW		
30	07:00	1,021.02	0.71	99	97.1	3	6.1	4			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	69.00	11/02/2021	7.34	11/02/2021	319.0	11/02/2021	11/20/2021		
2	72.30	11/09/2021	7.51	11/09/2021	332.0	11/09/2021	11/20/2021		
3	71.80	11/16/2021	7.31	11/16/2021	298.0	11/16/2021	12/02/2021		
4	70.00	11/23/2021	7.57	11/23/2021	313.0	11/23/2021	12/02/2021		
5	75.00	11/30/2021	7.59	11/30/2021	268.0	11/30/2021	12/06/2021		

No monthly injectate samples required.