Facility Well Name CHS Refinery #3 **UIC Permit #** KS-01-113-010 **Month** June **Year** 2022

Submitted 07/27/2022 **Approved** 07/28/2022 **KOLAR Document ID** 1657538

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	2,303	1.60	95	94	3.6	3.8	
Monthly Maximum	6,325	4.38	105	105	11.0	10.2	
Monthly Minimum	121	0.10	80	80	2.0	2.6	
Monthly Total	69,086						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
123.67	79.32	17.51	1.86

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	450.52	0.31	90	89.1	3	2.8	7			CG		
2	07:00	1,742.05	1.21	86	85.9	4	4.1	7			CG		
3	07:00	580.12	0.40	88	85.9	7	6.4	7			TY		
4	07:00	1,216.81	0.83	100	93.5	3	2.6	8			JC		
5	07:00	2,471.67	1.71	96	92.5	6	5.9	8			JC		
6	07:00	120.69	0.10	90	88.6	9	8.5	7			MB		
7	07:00	857.83	0.60	95	96.2	2	2.8	8			MB		
8	07:00	1,255.55	0.88	96	92.1	7	7.7	8			TY		
9	07:00	313.02	0.21	90	89.4	3	2.7	7			TY		
10	07:00	2,886.86	2.00	90	91.3	2	2.8	8			MB		
11	07:00	1,407.10	0.98	93	93.5	2	2.7	8			MW		
12	07:00	3,115.55	2.17	105	104.5	2	2.8	12			MB		
13	07:00	4,635.10	3.21	104	104.0	2	2.9	11			BD		
14	07:00	1,330.62	0.93	100	98.3	3	3.1	10			BD		
15	07:00	2,622.17	1.81	105	103.5	2	2.8	12			MB		
16	07:00	4,484.90	3.12	100	99.2	2	2.8	11			MB		
17	07:00	1,301.83	0.90	100	99.2	2	2.7	10			BD		
18	07:00	3,355.88	2.33	104	103.1	11	10.2	12			BF		
19	07:00	6,325.38	4.38	104	105.4	2	2.8	13			BD		
20	07:00	4,686.52	3.26	103	104.3	4	3.6	13			MH		
21	07:00	5,766.52	4.00	98	100.4	3	2.7	12			MH		
22	07:00	2,033.14	1.40	98	93.7	4	3.6	11			BD		
23	07:00	5,040.69	3.50	98	95.6	2	2.6	11			BD		
24	07:00	3,378.17	2.36	99	97.8	2	2.7	12			MH		
25	07:00	1,430.40	1.00	92	91.7	4	3.6	10			CG		
26	07:00	885.26	0.62	90	89.3	2	2.8	9			CG		
27	07:00	1,522.98	1.05	85	83.3	4	3.7	8			CG		
28	07:00	400.12	0.29	80	79.7	4	4.3	8			MW		
29	07:00	1,390.62	0.98	88	86.1	2	2.7	9			CG		
30	07:00	2,077.71	1.45	88	86.6	4	3.5	9			CG		
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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	87.30	06/07/2022	7.71	06/07/2022	393.0	06/07/2022	06/28/2022		
2	88.90	06/14/2022	7.67	06/14/2022	638.0	06/14/2022	06/28/2022		
3	91.80	06/24/2022	7.28	06/24/2022	370.0	06/24/2022	07/05/2022		
4	78.00	06/28/2022	7.18	06/28/2022	352.0	06/28/2022	07/08/2022		
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No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 06/24/2022
Kansas Lab Certificate Number E-10116
Lab Name Pace Analytical-Lenexa

These samples shall be representative of injection activity and shall therefore be collected on days of injection.

Constituent	Value	Units
1,2 Dichloroethene	ND	mg/l
Ammonia	0.130	mg/l
Benzene	ND	mg/l
Calcium	113.000	mg/l
Conductivity	2.920	Mmhos
Ethylbenzene	ND	mg/l
Iron	0.253	mg/l
Magnesium	10.900	mg/l
Oil & Grease	ND	mg/l
Sodium	239.000	mg/l
Sulfate	146.000	mg/l
Toluene	ND	mg/l
Total Alkalinity as CaCO3	193.000	mg/l
Total Dissolved Solids	1,080.000	mg/l
Total Suspended Solids	ND	mg/l
Trichloroethene	ND	mg/l
Xylene	ND	mg/l