Facility Well Name CHS Refinery #3 **UIC Permit #** KS-01-113-010 **Month** June **Year** 2020

Submitted 07/21/2020 **Approved** 07/24/2020 **KOLAR Document ID** 1524350

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	938	0.65	100	100	4.4	3.5	
Monthly Maximum	3,239	2.24	112	113	16.0	15.7	
Monthly Minimum	87	0.07	92	94	2.0	1.0	
Monthly Total	28,138						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
127.29	93.33	16.49	0.68

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	1,647.00	1.14	100	103.4	9	7.2	7			JC		
2	07:00	1,278.57	0.88	100	103.3	2	1.0	7			JC		
3	07:00	1,235.86	0.86	102	102.9	4	3.1	7			MH		
4	07:00	1,417.05	0.98	104	105.9	3	2.2	7			MH		
5	07:00	1,995.55	1.38	110	111.9	2	1.4	10			JC		
6	07:00	3,238.60	2.24	110	112.5	16	15.7	9			JC		
7	07:00	2,802.74	1.95	112	112.9	2	1.4	10			JC		
8	07:00	1,054.17	0.74	110	108.6	5	3.9	9			RM		
9	07:00	881.26	0.62	104	106.9	3	1.4	8			RM		
10	07:00	986.33	0.69	98	94.5	3	1.4	7			JC		
11	07:00	1,083.74	0.76	96	98.0	4	3.3	6			JM		
12	07:00	777.12	0.55	98	94.4	4	3.2	7			JM		
13	07:00	637.74	0.45	96	99.2	5	4.4	6			RM		
14	07:00	571.48	0.40	100	100.8	4	3.4	7			RM		
15	07:00	616.98	0.43	99	94.0	2	1.3	7			MW		
16	07:00	754.31	0.52	99	99.0	3	2.1	7			JM		
17	07:00	614.29	0.43	99	99.3	4	3.3	7			BF		
18	07:00	744.10	0.52	100	100.6	2	1.5	7			BF		
19	07:00	1,220.79	0.86	98	96.7	4	3.1	7			MW		
20	07:00	393.71	0.26	97	95.8	5	4.3	6			MW		
21	07:00	329.45	0.24	97	94.6	4	2.0	6			MW		
22	07:00	86.81	0.07	96	94.7	9	7.8	6			MH		
23	07:00	132.64	0.10	95	94.2	9	8.7	6			MH		
24	07:00	744.07	0.52	92	94.6	5	4.9	6			MW		
25	07:00	237.24	0.17	98	95.8	5	4.2	6			MW		
26	07:00	1,006.98	0.69	98	98.6	2	1.7	6			JM		
27	07:00	430.33	0.31	98	96.1	2	1.9	6			JM		
28	07:00	203.21	0.14	98	95.4	3	1.6	6			JM		
29	07:00	856.36	0.60	98	94.1	2	1.7	7			JC		
30	07:00	159.45	0.12	100	98.6	4	2.7	7			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	80.00	06/02/2020	7.73	06/02/2020	628.0	06/02/2020	06/11/2020		
2	86.20	06/09/2020	7.90	06/09/2020	342.0	06/09/2020	06/19/2020		
3	83.20	06/16/2020	7.58	06/16/2020	355.0	06/16/2020	06/26/2020		
4	73.90	06/23/2020	7.65	06/23/2020	366.0	06/23/2020	06/26/2020		
5	86.00	06/30/2020	7.79	06/30/2020	362.0	06/30/2020	07/02/2020		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 06/23/2020
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	0.900	mg/l
Benzene	ND	mg/l
Calcium	95.000	mg/l
Conductivity	2.000	Mmhos
Ethylbenzene	ND	mg/l
Iron	1.800	mg/l
Magnesium	8.400	mg/l
Oil and Grease	ND	mg/l
Sodium	261.000	mg/l
Sulfate	276.000	mg/l
Toluene	ND	mg/l
Total Alkalinity as CaCO3	66.000	mg/l (as CaCO3)
Total Dissolved Solids	1,200.000	mg/l
Total Suspended Solids	ND	mg/l
Trichloroethene	ND	mg/l
Xylene	ND	mg/l