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

Submitted 12/15/2020 **Approved** 12/16/2020 **KOLAR Document ID** 1539223

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	392	0.27	105	105	12.4	11.7	4
Monthly Maximum	826	0.57	120	118	16.0	15.2	4
Monthly Minimum	35	0.02	90	91	4.0	3.2	4
Monthly Total	11,770						4

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
120.49	79.92	16.66	2.84

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	620.24	0.43	120	117.5	14	13.6	3			JC		
2	07:00	488.90	0.33	104	107.8	10	9.6	3			JC		
3	07:00	479.31	0.33	104	108.1	13	12.2	2			JC		
4	07:00	461.14	0.31	110	109.9	16	15.0	2			MH		
5	07:00	725.48	0.50	105	108.5	15	14.0	2			JM		
6	07:00	825.60	0.57	105	108.5	15	13.9	2			MW		
7	07:00	495.76	0.33	115	112.1	4	3.2	2			MW		
8	07:00	496.12	0.33	115	112.6	9	8.7	2			MW		
9	07:00	584.57	0.40	114	112.8	15	14.0	2			MH		
10	07:00	434.74	0.31	105	103.4	14	12.9	2			MH		
11	07:00	398.74	0.29	101	100.2	14	14.1	2			MW		
12	07:00	349.71	0.24	106	105.0	13	12.4	2			MW		
13	07:00	321.60	0.21	108	107.1	16	15.2	2			MH		
14	07:00	312.69	0.21	115	113.5	15	14.3	2			MH		
15	07:00	594.52	0.40	112	110.0	16	15.1	2			MH		
16	07:00	603.43	0.43	110	108.3	10	9.4	2			JC		
17	07:00	420.00	0.29	106	108.9	7	6.9	2			JC		
18	07:00	237.26	0.17	110	111.7	10	9.4	2			MH		
19	07:00	376.12	0.26	115	114.5	12	10.6	2	Mineral Oil	4	MH		
20	07:00	570.52	0.40	98	98.0	11	10.3	4			JC		
21	07:00	429.95	0.31	98	95.0	9	8.4	3			JC		
22	07:00	385.71	0.26	98	94.2	10	10.0	3			JC		
23	07:00	449.83	0.31	94	93.9	14	13.2	3			DJ		
24	07:00	337.02	0.24	98	95.7	10	8.6	3			JM		
25	07:00	131.67	0.10	90	90.9	11	10.8	3			JC		
26	07:00	38.74	0.02	94	94.1	13	12.5	3			JC		
27	07:00	39.76	0.02	98	99.0	14	13.4	3			JM		
28	07:00	34.62	0.02	100	101.7	14	13.4	3			JM		
29	07:00	43.55	0.02	100	100.3	14	13.4	4			JM		
30	07:00	82.62	0.05	95	94.2	14	12.9	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	64.00	11/03/2020	7.71	11/03/2020	178.0	11/03/2020	11/28/2020		
2	66.90	11/10/2020	7.51	11/10/2020	741.0	11/10/2020	11/28/2020		
3	64.00	11/17/2020	7.62	11/17/2020	227.0	11/17/2020	12/05/2020		
4	60.00	11/25/2020	8.15	11/25/2020	220.0	11/25/2020	12/05/2020		
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No monthly injectate samples required.