Facility Well Name Kansas Ethanol #5 **UIC Permit #** KS-01-159-007 **Month** December **Year** 2020

Submitted 01/06/2021 **Approved** 01/07/2021 **KOLAR Document ID** 1541046

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 13,714

			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	5,643	3.94	70	71	-22.3	-19.1	
Monthly Maximum	7,762	4.43	70	74	-20.0	-17.4	
Monthly Minimum	3,571	3.31	69	69	-24.0	-21.0	
Monthly Total	174,929						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
75.50	68.90	-16.30	-21.20

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	Conduc-tivity	
1	06:50	5,690.48	3.83	70	71.1	-23	-19.4	11	N/A		BF	2,417.00	
2	06:50	5,690.48	4.43	70	71.1	-21	-18.0	11	N/A		BF	2,620.00	
3	06:50	6,285.71	4.31	70	70.6	-22	-18.3	10	N/A		BF	2,588.00	
4	06:50	6,190.48	4.19	70	70.9	-21	-18.4	10	N/A		BF	2,333.00	
5	09:00	6,666.67	4.26	70	71.4	-21	-18.0	11	N/A		CP	2,479.00	
6	09:10	6,142.86	4.19	70	71.3	-21	-18.1	10	N/A		AT	2,748.00	
7	06:50	5,452.38	4.19	70	71.3	-21	-18.4	10	N/A		BF	2,698.00	
8	01:15	7,761.90	4.24	70	72.8	-21	-17.7	11	N/A		AJR	2,829.00	
9	06:50	4,357.14	4.33	70	72.1	-21	-17.7	11	N/A		BF	2,716.00	
10	06:50	6,214.29	4.36	70	72.3	-20	-17.4	11	N/A		BF	2,810.00	
11	06:50	6,071.43	4.05	70	72.4	-22	-18.5	11	N/A		BF	2,777.00	
12	09:00	6,452.38	4.17	70	71.1	-22	-18.4	10	N/A		DW	2,614.00	
13	08:45	6,000.00	4.17	70	70.4	-22	-18.7	10	N/A		DW	2,480.00	
14	06:50	5,500.00	4.17	70	69.6	-22	-19.1	10	N/A		BF	2,601.00	
15	06:50	5,952.38	4.10	70	69.3	-22	-19.4	10	N/A		BF	2,716.00	
16	02:30	5,357.14	4.10	70	71.0	-22	-18.7	10	N/A		BF	2,520.00	
17	06:50	6,452.38	4.07	69	69.6	-22	-19.2	10	N/A		BF	2,877.00	
18	06:50	5,761.90	4.05	70	70.7	-22	-19.0	10	N/A		BF	2,681.00	
19	08:45	5,595.24	4.05	70	70.7	-22	-19.1	10	N/A		AT	2,531.00	
20	04:10	7,642.86	4.07	70	73.9	-22	-18.8	11	N/A		AT	2,649.00	
21	06:50	3,571.43	4.07	70	71.7	-22	-18.8	11	N/A		BF	2,665.00	
22	08:30	6,214.29	4.07	70	71.7	-22	-18.9	11	N/A		BF	2,722.00	
23	06:50	4,714.29	3.52	70	73.0	-23	-19.6	11	N/A		BF	2,616.00	
24	08:57	5,500.00	3.50	70	69.8	-24	-20.9	10	N/A		JC	2,279.00	
25	10:11	5,285.71	3.43	70	70.1	-24	-20.9	10	N/A		CC	2,097.00	
26	08:20	4,476.19	3.40	70	71.1	-24	-20.7	10	N/A		CP	2,291.00	
27	08:20	4,928.57	3.40	70	71.4	-24	-20.5	11	N/A		CP	2,092.00	
28	06:50	4,523.81	3.38	70	71.6	-24	-20.7	11	N/A		BF	2,200.00	
29	08:40	5,380.95	3.31	70	70.4	-24	-21.0	11	N/A		AJR	2,581.00	
30	06:50	4,309.52	3.31	70	70.9	-24	-20.1	11	N/A		BF	2,676.00	
31	06:50	4,785.71	3.31	70	70.3	-24	-21.0	11	N/A		BF	2,591.00	

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Weekly Injectate Samples

Kansas Lab Certificate Number E-10152

Week	Temperature		pH		Chloride				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	58.50	12/02/2020	7.41	12/02/2020	320.0	12/02/2020	12/03/2020		
2	60.10	12/09/2020	7.50	12/09/2020	295.0	12/09/2020	12/10/2020		
3	58.30	12/16/2020	7.31	12/16/2020	255.0	12/16/2020	12/18/2020		
4	58.60	12/22/2020	7.28	12/22/2020	230.0	12/22/2020	12/29/2020		
5	57.20	12/30/2020	7.35	12/30/2020	220.0	12/30/2020	01/04/2021		

No monthly injectate samples required.