Facility Well Name Kansas Ethanol #5 **UIC Permit #** KS-01-159-007 **Month** December **Year** 2021

Submitted 01/10/2022 **Approved** 01/25/2022 **KOLAR Document ID** 1606373

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 28

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	3,895	2.75	73	71	-23.7	-20.3	
Monthly Maximum	5,667	3.52	81	77	-20.0	-17.5	
Monthly Minimum	0	0.00	69	69	-25.0	-21.6	
Monthly Total	120,738						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
81.8	67.00	-0.9	-22.00

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	Conduc-tivity	
1	06:50	4,642.86	3.21	73	70.0	-23	-19.9	11	N/A		BF	2,810.00	
2	06:50	4,571.43	3.14	74	71.0	-23	-19.7	11	N/A		BF	2,721.00	
3	06:50	4,595.24	3.24	74	71.0	-23	-19.4	11	N/A		BF	2,677.00	
4	08:30	4,952.38	3.17	73	70.0	-24	-20.0	11	N/A		JC	2,318.00	
5	08:30	4,547.62	3.12	74	70.0	-24	-19.8	11	N/A		JC	2,455.00	
6	06:50	3,809.52	2.90	72	70.0	-24	-21.1	11	N/A		BF	2,555.00	
7	06:50	4,238.10	2.95	71	70.0	-24	-21.1	11	N/A		BF	2,760.00	
8	06:50	4,285.71	3.02	71	69.0	-24	-20.9	11	N/A		BF	2,711.00	
9	06:50	4,261.90	3.05	72	70.0	-24	-20.7	11	N/A		BF	2,582.00	
10	06:50	4,309.52	2.93	73	70.0	-24	-20.2	11	N/A		BF	2,813.00	
11	07:52	4,738.10	3.14	71	70.0	-24	-20.8	11	N/A		LT	2,317.00	
12	08:15	4,500.00	3.21	71	70.0	-24	-20.6	11	N/A		LT	2,443.00	
13	06:50	4,333.33	3.19	72	70.0	-24	-20.5	11	N/A		BF	2,515.00	
14	06:50	4,571.43	3.19	73	70.0	-24	-20.1	11	N/A		BF	2,321.00	
15	06:50	4,380.95	3.19	74	71.0	-24	-19.3	11	N/A		BF	2,539.00	
16	06:50	4,380.95	3.33	73	71.0	-24	-19.9	11	N/A		BF	2,529.00	
17	06:50	4,642.86	3.21	72	71.0	-24	-20.4	11	N/A		BF	2,690.00	
18	08:33	5,071.43	3.26	71	70.0	-24	-20.9	11	N/A		JC	2,341.00	
19	08:30	4,571.43	3.12	69	69.0	-24	-21.6	11	N/A		JC	2,463.00	
20	06:50	4,142.86	3.05	70	69.0	-24	-21.3	11	N/A		BF	2,510.00	
21	10:50	5,380.95	3.19	70	69.0	-24	-21.1	11	N/A		BM	2,347.00	
22	09:30	4,333.33	3.17	70	69.0	-24	-21.0	11	N/A		BM	2,222.00	
23	09:40	4,571.43	3.19	72	70.0	-24	-20.4	11	N/A		BM	2,284.00	
24	08:30	4,309.52	3.24	72	70.0	-24	-20.0	11	N/A		LH	2,250.00	
25	09:50	857.14	0.00	78	75.0	-22	-18.7	12	N/A		LH		
26	09:01	0.00	0.00	80	76.0	-25	-20.7	13	N/A		LH		
27	10:20	0.00	0.00	80	76.0	-25	-19.0	13	N/A		LH		
28	09:00	0.00	0.00	81	77.0	-20	-17.5	13	N/A		BM		
29	08:20	1,095.24	3.52	74	75.0	-22	-20.4	12	N/A		KV	2,234.00	
30	08:45	4,976.19	3.19	70	69.0	-24	-21.1	10	N/A		BM	2,679.00	
31	02:50	5,666.67	3.14	72	69.0	-24	-19.9	10	N/A		LM	2,587.00	

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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	57.60	12/01/2021	7.69	12/01/2021	315.0	12/01/2021	12/02/2021		
2	60.00	12/08/2021	7.45	12/08/2021	275.0	12/08/2021	12/13/2021		
3	67.50	12/15/2021	7.56	12/15/2021	250.0	12/15/2021	12/20/2021		
4	61.20	12/22/2021	7.46	12/22/2021	255.0	12/22/2021	12/28/2021		
5	64.30	12/29/2021	7.59	12/29/2021	255.0	12/29/2021	01/03/2022		

No monthly injectate samples required.