Facility Well Name Kansas Ethanol #5 **UIC Permit #** KS-01-159-007 **Month** January **Year** 2023

Submitted 02/07/2023 **Approved** 02/28/2023 **KOLAR Document ID** 1688480

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	4,754	3.33	69	71	-22.3	-18.9	
Monthly Maximum	5,405	3.57	70	73	-21.0	-18.1	
Monthly Minimum	2,857	2.45	67	67	-24.0	-20.2	
Monthly Total	147,381						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
74.50	67.00	-16.30	-20.20

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	02:30	4,571.43	2.57	70	72.5	-24	-19.6	10	N/A		1824		
2	11:30	3,119.05	2.45	69	71.6	-24	-20.2	10	N/A		1741		
3	07:00	2,857.14	3.38	69	71.5	-22	-18.2	10	N/A		2022		
4	07:00	5,071.43	3.57	68	70.8	-21	-18.1	10	N/A		1816		
5	07:00	5,023.81	3.52	68	70.5	-22	-18.6	10	N/A		1920		
6	07:00	5,047.62	3.50	69	71.1	-22	-18.3	10	N/A		1847		
7	08:30	5,357.14	3.48	69	71.0	-22	-18.6	10	N/A		1917		
8	09:20	5,166.67	3.43	69	70.9	-22	-18.7	10	N/A		2017		
9	07:00	4,404.76	3.45	69	71.6	-22	-18.2	10	N/A		2210		
10	07:00	5,023.81	3.48	69	71.8	-22	-18.1	10	N/A		2121		
11	07:00	4,952.38	3.48	69	71.8	-22	-18.1	10	N/A		1843		
12	07:00	4,976.19	3.43	69	71.0	-22	-18.7	10	N/A		2061		
13	07:15	5,000.00	3.45	68	70.5	-22	-18.8	10	N/A		1922		
14	08:53	5,404.76	3.48	69	70.1	-22	-18.7	10	N/A		2011		
15	08:37	4,880.95	3.38	69	71.2	-22	-18.2	10	N/A		2033		
16	07:15	4,571.43	3.40	69	72.1	-22	-18.1	10	N/A		1977		
17	07:15	4,857.14	3.38	70	72.2	-22	-18.3	10	N/A		1817		
18	08:40	5,142.86	3.36	69	70.0	-22	-19.3	10	N/A		1720		
19	08:45	4,880.95	3.40	69	70.3	-22	-19.0	10	N/A		1979		
20	08:00	4,666.67	3.36	69	70.3	-22	-19.1	10	N/A		1931		
21	08:45	5,023.81	3.33	68	71.3	-22	-18.7	10	N/A		2125		
22	01:00	5,071.43	3.33	68	70.7	-22	-18.9	10	N/A		2259		
23	10:15	4,880.95	3.33	68	69.3	-23	-19.7	10	N/A		2077		
24	09:30	4,642.86	3.33	68	69.8	-22	-19.3	10	N/A		1982		
25	08:45	4,619.05	3.33	68	70.4	-22	-19.1	10	N/A		2116		
26	07:15	4,476.19	3.29	68	70.3	-23	-19.3	10	N/A		1951		
27	07:15	4,761.90	3.29	68	70.6	-22	-18.9	10	N/A		2007		
28	08:50	5,095.24	3.29	68	71.4	-22	-18.6	10	N/A		1979		
29	09:20	4,809.52	3.29	68	68.8	-23	-19.8	10	N/A		2102		
30	07:15	4,285.71	3.31	67	67.3	-23	-20.0	9	N/A		2061		
31	07:15	4,738.10	3.29	67	67.8	-23	-20.0	9	N/A		2116		

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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	63.00	01/04/2023	7.81	01/04/2023	320.0	01/04/2023	01/06/2023		
2	63.30	01/11/2023	8.15	01/11/2023	345.0	01/11/2023	01/13/2023		
3	61.60	01/18/2023	7.62	01/18/2023	305.0	01/18/2023	01/23/2023		
4	61.50	01/25/2023	7.99	01/25/2023	340.0	01/25/2023	01/30/2023		
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 01/11/2023
Kansas Lab Certificate Number E-10152
Lab Name SDK Laboratories (Hutchinson)

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

Constituent	Value	Units
Calcium	293.000	mg/l
Iron	2.220	mg/l
Magnesium	56.200	mg/l
Sulfate	265.000	mg/l
Total Alkalinity as CaCO3	645.000	mg/l
Total Dissolved Solids	2,100.000	mg/l
Total Hardness as CaCO3	963.000	mg/l