KOLAR Document ID: 1882091

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form U3C
June 2015
Form must be Typed
Form must be completed on a per well basis

ANNUAL REPORT OF PRESSURE MONITORING, FLUID INJECTION AND ENHANCED RECOVERY

Complete all blanks - add pages if needed. Copy to be retained for five (5) years after filing date.

OPERATOR: License # 34992
Name: Fossil Energy, LLC
Address 1: 111 Cindy Drive
Address 2:
City: RUSSELL State: KS Zip: 67665 + 3401
Contact Person: Steven H Krug
Phone: (785) 483-1433
Lease Name: SIEFERS B
Well Number: 2

API No.: 15-009-23089-00-01
Permit No: D23248.0
Reporting Year: 2025
(January 1 to December 31)

____ - SE - NW - NW Sec. 2 Twp. 16 S. R. 12 ☐ E ☑ W
(Q/Q/Q/Q)
4321 feet from ☐ N / ☑ S Line of Section
4345 feet from ☑ E / ☐ W Line of Section
County: Barton

I. Injection Fluid:

Type *(Pick one)*: ☐ Fresh Water ☐ Treated Brine ☑ Untreated Brine ☐ Water/Brine
Source: ☑ Produced Water ☐ Other *(Attach list)*
Quality: Total Dissolved Solids: _____ mg/l Specific Gravity: _____ Additives: _____
(Attach water analysis, if available)

II. Well Data:

Maximum Authorized Injection Pressure: 0 psi Injection Zone: REAGAN
Maximum Authorized Injection Rate: 500 barrels per day
Total Number of Enhanced Recovery Injection Wells Covered by this Permit: _____ *(Include TA's)*

III.

Month:	Total Fluid Injected BBL	Maximum Fluid Pressure	Total Gas Injected MCF	Maximum Gas Pressure	# Days of Injection
January	2845	0			31
February	3300	0			28
March	8742	0			31
April	10530	0			30
May	10881	0			31
June	10965	0			30
July	11330	0			31
August	12989	0			31
September	12570	0			30
October	12462	0			31
November	12043	0			30
December	12462	0			31
TOTAL	121119		0		

Submitted Electronically

Baker Hughes
1625
Plainville Kansas 67663

Report Date: 1/24/2026

Complete Water Analysis Report SSP v.8

Customer:	Fossil Energy LLC	**Sample Date:**	1/24/2026
District:	Kansas	**Log Out Date:**	1/24/2026
Area:	Debuque	**Sample ID:**	Seifers #2 SWD
Lease:	Siefers #2 SWD	**Analyst:**	Bill Foster
Sample Point Name	Water Tank	**Chemical Used:**	
Sales Rep:	Bill Foster	**Comments:**	

Fossil Energy LLC, Siefers #2 SWD, Water Tank

Field Data	
Initial Temperature (°F):	140
Final Temperature (°F):	70
Initial Pressure (psi):	15
Final Pressure (psi):	15
pH:	
pH at time of sampling:	6.8
pH at time of analysis:	6.8
pH used in Calcs:	6.8

Alkalinity by Titration:	mg/L	meq/L
Bicarbonate (HCO_3^-):	375	6.1
Carbonate (CO_3^{2-}):	0	0.0
Hydroxide (OH^-):	0	0.0
aqueous CO_2 (ppm):		0.0
aqueous H_2S (ppm):		0.0
aqueous O_2 (ppb):		0.0
Calculated TDS (mg/L):		79654
Density/Specific Gravity (g/cm³):		1.0600
Measured Density/Specific Gravity		1
Conductivity (µmhos):		0
MCF/D:		0
BOPD:		0
BWPD:		0

Analysis of Sample — Anions:	mg/L	meq/L
Chloride (Cl^-):	48500	1366.2
Sulfate (SO_4^{2-}):	1295	27.0
Borate (H_3BO_3):	0.0	0.0
Fluoride (F^-):	0.0	0.0
Bromide (Br^-):	0.0	0.0
Nitrite (NO_2^-):	0.0	0.0
Nitrate (NO_3^-):	0.0	0.0
Phosphate (PO_4^{3-}):	0.0	0.0
Silica (SiO_2):	0.0	0.0

Organic Acids:	mg/L	meq/L
Formate:	0.0	0.0
Acetate:	0.0	0.0
Propionate:	0.0	0.0
Butyrate:	0.0	0.0
Valerate:	0.0	0.0
Anion/Cation Ratio:		1.00

Cations:	mg/L	meq/L
Sodium (Na^+):	21799	951.9
Potassium (K^+):	0	0.0
Magnesium (Mg^{2+}):	1910	157.2
Calcium (Ca^{2+}):	5775	288.2
Strontium (Sr^{2+}):	0	0.0
Barium (Ba^{2+}):	0.0	0.0
Iron (Fe^{2+}):	0.0	0.0
Manganese (Mn^{2+}):	0.00	0.0
Lead (Pb^{2+}):	0.00	0.0
Zinc (Zn^{2+}):	0.0	0.0
Aluminum (Al^{3+}):	0.0	0.0
Chromium (Cr^{3+}):	0.0	0.0
Cobalt (Co^{2+}):	0.0	0.0
Copper (Cu^{2+}):	0.0	0.0
Molybdenum (Mo^{2+}):	0.0	0.0
Nickel (Ni^{2+}):	0.0	0.0
Tin (Sn^{2+}):	0.0	0.0
Titanium (Ti^{2+}):	0.0	0.0
Vanadium (V^{2+}):	0.0	0.0
Zirconium (Zr^{2+}):	0.0	0.0
Total Hardness:	21250	N/A

Conditions		Barite ($BaSO_4$)		Calcite ($CaCO_3$)		Gypsum ($CaSO_4 \cdot 2H_2O$)		Anhydrite ($CaSO_4$)	
Temp	Press.	Index	Amt (PTB)	Index	Amt (PTB)	Index	Amount	Index	Amt (PTB)
70°F	15 psi		0.000	1.12	70.766	-0.12	0.000	-0.36	0.000
78°F	15 psi		0.000	1.18	73.354	-0.11	0.000	-0.33	0.000
86°F	15 psi		0.000	1.25	75.744	-0.11	0.000	-0.29	0.000
93°F	15 psi		0.000	1.31	77.955	-0.10	0.000	-0.26	0.000
101°F	15 psi		0.000	1.38	80.002	-0.10	0.000	-0.22	0.000
109°F	15 psi		0.000	1.44	81.899	-0.09	0.000	-0.18	0.000
117°F	15 psi		0.000	1.50	83.655	-0.08	0.000	-0.14	0.000
124°F	15 psi		0.000	1.56	85.283	-0.08	0.000	-0.09	0.000
132°F	15 psi		0.000	1.62	86.792	-0.07	0.000	-0.05	0.000
140°F	15 psi		0.000	1.68	88.192	-0.06	0.000	0.00	0.000

Conditions		Celestite ($SrSO_4$)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate ($FeCO_3$)	
Temp	Press.	Index	Amt (PTB)	Index	Amt (PTB)	Index	Amt (PTB)	Index	Amt (PTB)
70°F	15 psi		0.000	-1.79	0.000	0	0.000		0.000
78°F	15 psi		0.000	-1.80	0.000	0	0.000		0.000
86°F	15 psi		0.000	-1.81	0.000	0	0.000		0.000
93°F	15 psi		0.000	-1.82	0.000	0	0.000		0.000
101°F	15 psi		0.000	-1.82	0.000	0	0.000		0.000
109°F	15 psi		0.000	-1.83	0.000	0	0.000		0.000
117°F	15 psi		0.000	-1.83	0.000	0	0.000		0.000
124°F	15 psi		0.000	-1.84	0.000	0	0.000		0.000
132°F	15 psi		0.000	-1.84	0.000	0	0.000		0.000
140°F	15 psi		0.000	-1.85	0.000	0	0.000		0.000

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.

Note 3: Saturation Index predictions on this sheet use pH and alkalinity; $\%CO_2$ is not included in the calculations.

Calculate

ScaleSoftPitzer™
SSP2010

Sample ID: Seifers #2 SWD Fossil Energy LLC, Siefers #2 SWD, Water Tank

