

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 # _____
Name: _____
Address 1: _____
Address 2: _____
City: _____ State: _____ Zip: _____ + _____
Contact Person: _____
Phone: (_____) _____
Lease Name: _____
Well Number: _____

API No.: _____
Permit No.: _____
Reporting Year: _____
(January 1 to December 31)
____ - ____ - ____ - ____ Sec. ____ Twp. ____ S. R. ____ E W
(a/a/a/a)
_____ feet from N / S Line of Section
_____ feet from E / W Line of Section
County: _____

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: _____ psi Injection Zone: _____
Maximum Authorized Injection Rate: _____ 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 | _____ | _____ | _____ | _____ | _____ |
| | February | _____ | _____ | _____ | _____ | _____ |
| | March | _____ | _____ | _____ | _____ | _____ |
| | April | _____ | _____ | _____ | _____ | _____ |
| | May | _____ | _____ | _____ | _____ | _____ |
| | June | _____ | _____ | _____ | _____ | _____ |
| | July | _____ | _____ | _____ | _____ | _____ |
| | August | _____ | _____ | _____ | _____ | _____ |
| | September | _____ | _____ | _____ | _____ | _____ |
| | October | _____ | _____ | _____ | _____ | _____ |
| | November | _____ | _____ | _____ | _____ | _____ |
| | December | _____ | _____ | _____ | _____ | _____ |
| | TOTAL | _____ | _____ | _____ | _____ | _____ |



Baker Hughes
1625
Plainville Kansas 67663

Report Date: 2/28/2023

Complete Water Analysis Report SSP v.8

| | | | |
|-------------------|-----------------|----------------|-----------------|
| Customer: | Fossil Energy | Sample Date: | 2/28/2023 |
| District: | Kansas | Log Out Date: | 2/28/2023 |
| Area: | Fairport Kansas | Sample ID: | Eulert #3-3 SWD |
| Lease: | Eulert #3 | Analyst: | Bill Foster |
| Sample Point Name | Water Tank | Chemical Used: | |
| Sales Rep: | Bill Foster | Comments: | |

Fossil Energy, Eulert #3, Water Tank

| Field Data | | Analysis of Sample | | | | | | | | | | | |
|--|--------|---|-------|-------------------------------|---------------------------------|-------|--------|----------|--|------|--|-------|--|
| | | Anions: | | mg/L | | meq/L | | Cations: | | mg/L | | meq/L | |
| Initial Temperature (°F): | 140 | Chloride (Cl ⁻): | 54000 | 1521.1 | Sodium (Na ⁺): | 27135 | 1184.9 | | | | | | |
| Final Temperature (°F): | 70 | Sulfate (SO ₄ ²⁻): | 2600 | 54.1 | Potassium (K ⁺): | 0 | 0.0 | | | | | | |
| Initial Pressure (psi): | 15 | Borate (H ₃ BO ₃): | 0.0 | 0.0 | Magnesium (Mg ²⁺): | 1628 | 134.0 | | | | | | |
| Final Pressure (psi): | 15 | Fluoride (F ⁻): | 0.0 | 0.0 | Calcium (Ca ²⁺): | 5240 | 261.5 | | | | | | |
| pH: | | Bromide (Br ⁻): | 0.0 | 0.0 | Strontium (Sr ²⁺): | 0 | 0.0 | | | | | | |
| pH at time of sampling: | | Nitrite (NO ₂ ⁻): | 0.0 | 0.0 | Barium (Ba ²⁺): | 0.0 | 0.0 | | | | | | |
| pH at time of analysis: | | Nitrate (NO ₃ ⁻): | 0.0 | 0.0 | Iron (Fe ²⁺): | 0.0 | 0.0 | | | | | | |
| pH used in Calcs: | | Phosphate (PO ₄ ³⁻): | 0.0 | 0.0 | Manganese (Mn ²⁺): | 0.00 | 0.00 | | | | | | |
| Alkalinity by Titration: | | Silica (SiO ₂): | 0.0 | 0.0 | Lead (Pb ²⁺): | 0.00 | 0.00 | | | | | | |
| Bicarbonate (HCO ₃ ⁻): | 158 | mg/L | meq/L | Zinc (Zn ²⁺): | 0.0 | 0.0 | | | | | | | |
| Carbonate (CO ₃ ²⁻): | 0 | 0.0 | 0.0 | Aluminum (Al ³⁺): | 0.0 | 0.0 | | | | | | | |
| Hydroxide (OH ⁻): | 0 | 0.0 | 0.0 | Chromium (Cr ³⁺): | 0.0 | 0.0 | | | | | | | |
| aqueous CO ₂ (ppm): | 0.0 | Formate: | 0.0 | meq/L | Copper (Cu ²⁺): | 0.0 | 0.0 | | | | | | |
| aqueous H ₂ S (ppm): | 0.0 | Acetate: | 0.0 | 0.0 | Molybdenum (Mo ²⁺): | 0.0 | 0.0 | | | | | | |
| aqueous O ₂ (ppb): | 0.0 | Propionate: | 0.0 | 0.0 | Nickel (Ni ²⁺): | 0.0 | 0.0 | | | | | | |
| Calculated TDS (mg/L): | 90761 | Butyrate: | 0.0 | 0.0 | Tin (Sn ²⁺): | 0.0 | 0.0 | | | | | | |
| Density/Specific Gravity (g/cm ³): | 1.0600 | Valerate: | 0.0 | 0.0 | Titanium (Ti ²⁺): | 0.0 | 0.0 | | | | | | |
| Measured Density/Specific Gravity | 1 | | | | Vanadium (V ²⁺): | 0.0 | 0.0 | | | | | | |
| Conductivity (µmhos): | 0 | | | | Zirconium (Zr ²⁺): | 0.0 | 0.0 | | | | | | |
| MCF/D: | 0 | | | | Total Hardness: | 19800 | N/A | | | | | | |
| BOPD: | 0 | | | | | | | | | | | | |
| BWPD: | 0 | meq/L | meq/L | meq/L | | | | | | | | | |
| | | Anion/Cation Ratio: | | 1.00 | | | | | | | | | |

| Conditions | | Barite (BaSO ₄) | | Calcite (CaCO ₃) | | Gypsum (CaSO ₄ ·2H ₂ O) | | Anhydrite (CaSO ₄) | |
|------------|--------|-----------------------------|-----------|------------------------------|-----------|---|---------|--------------------------------|-----------|
| Temp | Press. | Index | Amt (PTB) | Index | Amt (PTB) | Index | Amount | Index | Amt (PTB) |
| 70°F | 15 psi | | 0.000 | 0.70 | 21.413 | 0.12 | 346.916 | -0.12 | 0.000 |
| 78°F | 15 psi | | 0.000 | 0.77 | 23.025 | 0.13 | 361.535 | -0.08 | 0.000 |
| 86°F | 15 psi | | 0.000 | 0.84 | 24.516 | 0.13 | 374.952 | -0.05 | 0.000 |
| 93°F | 15 psi | | 0.000 | 0.90 | 25.899 | 0.14 | 388.041 | -0.01 | 0.000 |
| 101°F | 15 psi | | 0.000 | 0.97 | 27.183 | 0.15 | 401.316 | 0.03 | 72.676 |
| 109°F | 15 psi | | 0.000 | 1.03 | 28.376 | 0.15 | 415.075 | 0.07 | 163.343 |
| 117°F | 15 psi | | 0.000 | 1.09 | 29.485 | 0.16 | 429.477 | 0.11 | 250.516 |
| 124°F | 15 psi | | 0.000 | 1.15 | 30.515 | 0.16 | 444.592 | 0.15 | 333.957 |
| 132°F | 15 psi | | 0.000 | 1.21 | 31.473 | 0.17 | 460.427 | 0.20 | 413.435 |
| 140°F | 15 psi | | 0.000 | 1.27 | 32.364 | 0.18 | 476.946 | 0.24 | 488.749 |

| 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 | -1.65 | 0.000 | 0 | 0.000 | | 0.000 |
| 78°F | 15 psi | | 0.000 | -1.65 | 0.000 | 0 | 0.000 | | 0.000 |
| 86°F | 15 psi | | 0.000 | -1.66 | 0.000 | 0 | 0.000 | | 0.000 |
| 93°F | 15 psi | | 0.000 | -1.67 | 0.000 | 0 | 0.000 | | 0.000 |
| 101°F | 15 psi | | 0.000 | -1.67 | 0.000 | 0 | 0.000 | | 0.000 |
| 109°F | 15 psi | | 0.000 | -1.68 | 0.000 | 0 | 0.000 | | 0.000 |
| 117°F | 15 psi | | 0.000 | -1.68 | 0.000 | 0 | 0.000 | | 0.000 |
| 124°F | 15 psi | | 0.000 | -1.69 | 0.000 | 0 | 0.000 | | 0.000 |
| 132°F | 15 psi | | 0.000 | -1.69 | 0.000 | 0 | 0.000 | | 0.000 |
| 140°F | 15 psi | | 0.000 | -1.70 | 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; %CO₂ is not included in the calculations.



Sample ID: Eulert #3-3 SWD Fossil Energy, Eulert #3, Water Tank

