

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 | _____ | _____ | _____ | _____ | _____ |

Complete Water Analysis

Customer: **GREAT PLAINS ENERGY INC**
 Geographic Region: **Kansas**
 Geographic Location: **Decatur County**
 System Description: **Production System**

Equipment Description: **Swede Hollow Injection**
 Sample Point: **Injection**
 Sample ID: **AT02253**
 Account Rep: **Steve.Eckhardt@championx.com**

Collection Date: **02/11/2022**
 Receive Date: **02/22/2022**
 Report Date: **02/25/2022**
 Location Code: **470211**

| Field Analysis | | |
|------------------|------------|-----------------|
| Analysis | Result | Analysis Method |
| Bicarbonate | 459 mg/L | Titration |
| Dissolved CO2 | 220 mg/L | Titration |
| Dissolved H2S | 132.6 mg/L | Titration |
| Pressure Surface | 10 psi | |
| Temperature | 76 °F | |
| pH of Water | 6.9 | Meter |

| Sample Analysis | | |
|------------------------|---------------|-----------------|
| Analysis | Result | Analysis Method |
| Specific Gravity | 1.052 | Densitometer |
| Ionic Strength | 1.63 mol/L | Calculation |
| Total Dissolved Solids | 91603.46 mg/L | Calculation |

Cations - Analyzed By ICP

| | | | |
|-----------|---------------|-----------------|------------|
| Iron | 0.320 mg/L | Measured Sodium | 33410 mg/L |
| Manganese | 0.171 mg/L | | |
| Barium | 11.97 mg/L | | |
| Strontium | 402.4 mg/L | | |
| Calcium | 1254 mg/L | | |
| Magnesium | 540.6 mg/L | | |
| Sodium | 33410.00 mg/L | | |

Anions - Analyzed By IC

| | |
|----------|------------|
| Chloride | 55207 mg/L |
| Sulfate | 318 mg/L |

Scale Type

| | | | |
|-----------------------|-----|----------------------|-------|
| Anhydrite CaSO4 PTB | N/A | Anhydrite CaSO4 SI | -1.63 |
| Barite BaSO4 PTB | 6.5 | Barite BaSO4 SI | 1.08 |
| Calcite CaCO3 PTB | N/A | Calcite CaCO3 SI | -0.48 |
| Celestite SrSO4 PTB | N/A | Celestite SrSO4 SI | -0.05 |
| Gypsum CaSO4 PTB | N/A | Gypsum CaSO4 SI | -1.42 |
| Hemihydrate CaSO4 PTB | N/A | Hemihydrate CaSO4 SI | -1.43 |

Comments

Scaling predictions calculated using Oddo-Tomson model

This document contains the confidential and/or proprietary information of ChampionX. The recipient agrees to maintain the confidentiality of the terms of this document, and shall not reproduce it by any means, disclose the contents of it to any third party, or use the contents of it for any purpose other than the purpose for which it was intended by ChampionX.