

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<br>BBL | Maximum Fluid<br>Pressure | Total Gas Injected<br>MCF | Maximum Gas<br>Pressure | # Days of<br>Injection |
|------|--------------|-----------------------------|---------------------------|---------------------------|-------------------------|------------------------|
|      | January      | _____                       | _____                     | _____                     | _____                   | _____                  |
|      | February     | _____                       | _____                     | _____                     | _____                   | _____                  |
|      | March        | _____                       | _____                     | _____                     | _____                   | _____                  |
|      | April        | _____                       | _____                     | _____                     | _____                   | _____                  |
|      | May          | _____                       | _____                     | _____                     | _____                   | _____                  |
|      | June         | _____                       | _____                     | _____                     | _____                   | _____                  |
|      | July         | _____                       | _____                     | _____                     | _____                   | _____                  |
|      | August       | _____                       | _____                     | _____                     | _____                   | _____                  |
|      | September    | _____                       | _____                     | _____                     | _____                   | _____                  |
|      | October      | _____                       | _____                     | _____                     | _____                   | _____                  |
|      | November     | _____                       | _____                     | _____                     | _____                   | _____                  |
|      | December     | _____                       | _____                     | _____                     | _____                   | _____                  |
|      | <b>TOTAL</b> | _____                       | _____                     | _____                     | _____                   | _____                  |

## Complete Water Analysis Report

Customer: SHAKESPEARE OIL COMPANY  
 Region: Kansas  
 Location: Lane County  
 System: Production System

Equipment: Hineman 1 OWWO  
 Sample Point: Bleeder  
 Sample ID: AQ70663  
 Acct Rep Email: Michael.Walters@championx.com

Collection Date: 02/10/2021  
 Receive Date: 02/10/2021  
 Report Date: 02/11/2021  
 Location Code: 430649

### Field Analysis

|                  |          |               |          |               |         |
|------------------|----------|---------------|----------|---------------|---------|
| Bicarbonate      | 185 mg/L | Dissolved CO2 | 167 mg/L | Dissolved H2S | 44 mg/L |
| Pressure Surface | 25 psi   | Temperature   | 100 ° F  | pH of Water   | 7.5     |

### Sample Analysis

|                           |                 |                        |               |             |                |
|---------------------------|-----------------|------------------------|---------------|-------------|----------------|
| Conductivity (Calculated) | 104070 µS - cm3 | Ionic Strength         | 1.20 mol/L    | Resistivity | 0.096 ohms - m |
| Specific Gravity          | 1.052           | Total Dissolved Solids | 66604.49 mg/L |             |                |

### Cations

|           |               |           |            |           |            |
|-----------|---------------|-----------|------------|-----------|------------|
| Iron      | <0.1 mg/L     | Manganese | <0 mg/L    | Barium    | 0.214 mg/L |
| Strontium | 28.48 mg/L    | Calcium   | 865.3 mg/L | Magnesium | 291.5 mg/L |
| Sodium    | 23820.00 mg/L |           |            |           |            |

### Anions

|          |            |         |           |
|----------|------------|---------|-----------|
| Chloride | 37879 mg/L | Sulfate | 3535 mg/L |
|----------|------------|---------|-----------|

### Scale Type

|                       |     |                      |       |
|-----------------------|-----|----------------------|-------|
| Anhydrite CaSO4 PTB   | N/A | Anhydrite CaSO4 SI   | -0.60 |
| Barite BaSO4 PTB      | 0.1 | Barite BaSO4 SI      | 0.34  |
| Calcite CaCO3 PTB     | N/A | Calcite CaCO3 SI     | -0.10 |
| Celestite SrSO4 PTB   | N/A | Celestite SrSO4 SI   | -0.08 |
| Gypsum CaSO4 PTB      | N/A | Gypsum CaSO4 SI      | -0.49 |
| Hemihydrate CaSO4 PTB | N/A | Hemihydrate CaSO4 SI | -0.49 |

### Comments

Scaling predictions calculated using Oddo-Tomson model

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