

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 Report

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

Equipment: Yost 9-1
 Sample Point: Bleeder
 Sample ID: AS88273
 Acct Rep Email: Michael.Walters@championx.com

Collection Date: 02/03/2022
 Receive Date: 02/07/2022
 Report Date: 02/08/2022
 Location Code: 430674

Field Analysis

| | | | | | |
|------------------|-------------|---------------|-------------|---------------|------------|
| Bicarbonate | 146.00 mg/L | Dissolved CO2 | 211.00 mg/L | Dissolved H2S | 71.00 mg/L |
| Pressure Surface | 25 psi | Temperature | 100 ° F | pH of Water | 7.50 |

Sample Analysis

| | | | | | |
|----------------|------------|------------------|-------|------------------------|--------------|
| Ionic Strength | 1.74 mol/L | Specific Gravity | 1.067 | Total Dissolved Solids | 96280.5 mg/L |
|----------------|------------|------------------|-------|------------------------|--------------|

Cations

| | | | | | |
|-----------|---------------|-----------|------------|-----------|------------|
| Iron | 0.161 mg/L | Manganese | 0.187 mg/L | Barium | 0.153 mg/L |
| Strontium | 53.20 mg/L | Calcium | 1568 mg/L | Magnesium | 506.8 mg/L |
| Sodium | 35002.00 mg/L | | | | |

Anions

| | | | |
|----------|------------|---------|-----------|
| Chloride | 56116 mg/L | Sulfate | 2888 mg/L |
|----------|------------|---------|-----------|

Scale Type

| | | | | | | | |
|-------|-----------------------|-------|-----|-------|----------------------|-------|-------|
| ----- | Anhydrite CaSO4 PTB | ----- | N/A | ----- | Anhydrite CaSO4 SI | ----- | -0.46 |
| ----- | Barite BaSO4 PTB | ----- | N/A | ----- | Barite BaSO4 SI | ----- | -0.02 |
| ----- | Calcite CaCO3 PTB | ----- | N/A | ----- | Calcite CaCO3 SI | ----- | -0.05 |
| ----- | Celestite SrSO4 PTB | ----- | 1.8 | ----- | Celestite SrSO4 SI | ----- | 0.02 |
| ----- | Gypsum CaSO4 PTB | ----- | N/A | ----- | Gypsum CaSO4 SI | ----- | -0.40 |
| ----- | Hemihydrate CaSO4 PTB | ----- | N/A | ----- | Hemihydrate CaSO4 SI | ----- | -0.42 |

Comments

Scaling predictions calculated using Odco-Tomson model

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