

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

**ANNUAL REPORT OF PRESSURE MONITORING,  
FLUID INJECTION AND ENHANCED RECOVERY**

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

*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  
(Q/Q/Q/Q) \_\_\_\_\_ 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	_____	_____	_____	_____	_____
	<b>TOTAL</b>	_____	_____	_____	_____	_____

Submitted Electronically

## Complete Water Analysis

Customer: SHAKESPEARE OIL COMPANY  
 Formation Zone:  
 Geographic Region: Kansas  
 Geographic Location: Lane County  
 System Description: Production System

Equipment Description: Hineman Unit 1-28  
 Sample Point: Bleeder  
 Customer ID:  
 Latitude/Longitude: 0.00, 0.00  
 Account Rep: Michael.walters@championx.com

Collect Date: 02/21/2025  
 Submit Date: 03/03/2025  
 Report Date: 03/05/2025  
 Sample ID: BA68059  
 Location Code: 430648

Field Analysis			Sample Analysis		
<u>Analysis</u>	<u>Result</u>	<u>Analysis Method</u>	<u>Analysis</u>	<u>Result</u>	<u>Analysis Method</u>
Total Alkalinity (M-Alk as HCO3)	220 mg/L	Titration	Specific Gravity	1.046	Densitometer
Dissolved CO2	330 mg/L	Titration	Ionic Strength	1.18 mol/L	Calculation
Dissolved H2S	110 mg/L	Titration	Total Dissolved Solids	64600 mg/L	Calculation
Pressure Surface	25 psi				
Temperature	100 ° F				
pH of Water	7.0	Meter			

## Cations - Analyzed By ICP

Iron	<0.500 mg/L	Measured Sodium	22700 mg/L
Manganese	<0.200 mg/L		
Barium	0.115 mg/L		
Strontium	32.6 mg/L		
Calcium	1060 mg/L		
Magnesium	376 mg/L		
Sodium	22700 mg/L		

## Anions - Analyzed By IC\*

Chloride	35900 mg/L	Sulfate	4350 mg/L
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## Scale Type

Anhydrite CaSO4 PTB	N/A
Barite BaSO4 PTB	0.0
Calcite CaCO3 PTB	N/A
Celestite SrSO4 PTB	3.50
Gypsum CaSO4 PTB	N/A
Hemihydrate CaSO4 PTB	N/A

Anhydrite CaSO4 SI	-0.43
Barite BaSO4 SI	0.16
Calcite CaCO3 SI	-0.43
Celestite SrSO4 SI	0.070
Gypsum CaSO4 SI	-0.32
Hemihydrate CaSO4 SI	-0.32

## Comments

Scaling predictions calculated using Oddo-Tomson model

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