

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

Equipment Description: **Hineman 1 OWWO**
 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: **BA68057**
 Location Code: **430649**

Field Analysis			Sample Analysis		
Analysis	Result	Analysis Method	Analysis	Result	Analysis Method
Total Alkalinity (M-Alk as HCO ₃)	265 mg/L	Titration	Specific Gravity	1.053	Densitometer
Dissolved CO ₂	200 mg/L	Titration	Ionic Strength	1.34 mol/L	Calculation
Dissolved H ₂ S	100 mg/L	Titration	Total Dissolved Solids	73600 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	26300 mg/L
Manganese	<0.200 mg/L		
Barium	0.135 mg/L		
Strontium	36.4 mg/L		
Calcium	1230 mg/L		
Magnesium	356 mg/L		
Sodium	26300 mg/L		

Anions - Analyzed By IC*

Chloride	41000 mg/L	Sulfate	4440 mg/L
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Scale Type

Anhydrite CaSO ₄ PTB	N/A	Anhydrite CaSO ₄ SI	-0.37
Barite BaSO ₄ PTB	0.0	Barite BaSO ₄ SI	0.19
Calcite CaCO ₃ PTB	N/A	Calcite CaCO ₃ SI	-0.33
Celestite SrSO ₄ PTB	4.70	Celestite SrSO ₄ SI	0.090
Gypsum CaSO ₄ PTB	N/A	Gypsum CaSO ₄ SI	-0.27
Hemihydrate CaSO ₄ PTB	N/A	Hemihydrate CaSO ₄ SI	-0.28

Comments

Scaling predictions calculated using Oddo-Tomson model

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