

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: Steele 1 SWD
 Sample Point: Bleeder
 Sample ID: AQ70681
 Acct Rep Email: Michael.Walters@championx.com

Collection Date: 02/10/2021
 Receive Date: 02/10/2021
 Report Date: 02/11/2021
 Location Code: 430665

Field Analysis

Bicarbonate	234 mg/L	Dissolved CO2	141 mg/L	Dissolved H2S	31 mg/L
Pressure Surface	25 psi	Temperature	100 ° F	pH of Water	7.5

Sample Analysis

Conductivity (Calculated)	70052 µS - cm3	Ionic Strength	0.82 mol/L	Resistivity	0.143 ohms - m
Specific Gravity	1.035	Total Dissolved Solids	44833.38 mg/L		

Cations

Iron	0.173 mg/L	Manganese	0.020 mg/L	Barium	0.268 mg/L
Strontium	24.02 mg/L	Calcium	832.8 mg/L	Magnesium	312.1 mg/L
Sodium	15090.00 mg/L				

Anions

Chloride	25073 mg/L	Sulfate	3267 mg/L
----------	------------	---------	-----------

Scale Type

Anhydrite CaSO4 PTB		N/A	Anhydrite CaSO4 SI		-0.61
Barite BaSO4 PTB		0.1	Barite BaSO4 SI		0.56
Calcite CaCO3 PTB		15.7	Calcite CaCO3 SI		0.12
Celestite SrSO4 PTB		N/A	Celestite SrSO4 SI		-0.08
Gypsum CaSO4 PTB		N/A	Gypsum CaSO4 SI		-0.47
Hemihydrate CaSO4 PTB		N/A	Hemihydrate CaSO4 SI		-0.44

Comments

Scaling predictions calculated using Odco-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.