

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	_____	_____	_____	_____	_____

Submitted Electronically

Complete Water Analysis Report

Customer: SHAKESPEARE OIL COMPANY

Region: Kansas

Location: Lane County

System: Production System

Equipment: Harper Taldo 1-22

Sample Point: Bleeder

Sample ID: AS88260

Acct Rep Email: Michael.Walters@championx.com

Collection Date: 02/03/2022

Receive Date: 02/07/2022

Report Date: 02/08/2022

Location Code: 430647

Field Analysis

Bicarbonate	361.00 mg/L	Dissolved CO2	176.00 mg/L	Dissolved H2S	139.00 mg/L
Pressure Surface	25 psi	Temperature	100 ° F	pH of Water	7.50

Sample Analysis

Ionic Strength	0.95 mol/L	Specific Gravity	1.041	Total Dissolved Solids	53169.8 mg/L
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Cations

Iron	0.312 mg/L	Manganese	0.137 mg/L	Barium	0.165 mg/L
Strontium	39.69 mg/L	Calcium	847.8 mg/L	Magnesium	342.7 mg/L
Sodium	17550.00 mg/L				

Anions

Chloride	32360 mg/L	Sulfate	1668 mg/L
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Scale Type

Anhydrite CaSO4 PTB		N/A	Anhydrite CaSO4 SI		-0.90
Barite BaSO4 PTB		N/A	Barite BaSO4 SI		0.00
Calcite CaCO3 PTB		47.0	Calcite CaCO3 SI		0.25
Celestite SrSO4 PTB		N/A	Celestite SrSO4 SI		-0.19
Gypsum CaSO4 PTB		N/A	Gypsum CaSO4 SI		-0.77
Hemihydrate CaSO4 PTB		N/A	Hemihydrate CaSO4 SI		-0.76

Comments

Scaling predictions calculated using Oddo-Tomson model

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