

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 # 7311
Name: Shakespeare Oil Co., Inc.
Address 1: 202 W MAIN ST
Address 2: _____
City: SALEM State: IL Zip: 62881 + 1519
Contact Person: Anna Diss
Phone: (618) 548-1585
Lease Name: MAZANEC COMMUNITY
Well Number: 1-12

API No.: 15-203-20359-00-02
Permit No.: D34521.0
Reporting Year: 2024
(January 1 to December 31)
SE - NE - NE - NE Sec. 12 Twp. 17 S. R. 35 ☐ E ☒ W
(a/a/a/a)
400 feet from ☒ N / ☐ S Line of Section
110 feet from ☒ E / ☐ W Line of Section
County: Wichita

I. Injection Fluid:

Type (Pick one): ☐ Fresh Water ☐ Treated Brine ☐ Untreated Brine ☒ Water/Brine
Source: ☒ Produced Water ☐ Other (Attach list)
Quality: Total Dissolved Solids: 48000 mg/l Specific Gravity: 1.034 Additives: _____
(Attach water analysis, if available)

II. Well Data:

Maximum Authorized Injection Pressure: 1200 psi Injection Zone: OREAD, TORONTO, LKC
Maximum Authorized Injection Rate: 1500 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	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	February	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	March	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	April	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	May	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	June	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	July	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	August	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	September	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	October	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	November	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	December	<u>396</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>18</u>
	TOTAL	<u>396</u>		<u>0</u>		

Submitted Electronically

Complete Water Analysis

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

Equipment Description: **Mazanec Community 1-12**
 Sample Point: **Wellhead**
 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: **BA68068**
 Location Code: **520341**

Field Analysis			Sample Analysis		
Analysis	Result	Analysis Method	Analysis	Result	Analysis Method
Total Alkalinity (M-Alk as HCO ₃)	190 mg/L	Titration	Specific Gravity	1.034	Densitometer
Dissolved CO ₂	280 mg/L	Titration	Ionic Strength	0.890 mol/L	Calculation
Dissolved H ₂ S	120 mg/L	Titration	Total Dissolved Solids	48000 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	16400 mg/L
Manganese	<0.200 mg/L		
Barium	0.117 mg/L		
Strontium	32.2 mg/L		
Calcium	930 mg/L		
Magnesium	391 mg/L		
Sodium	16400 mg/L		

Anions - Analyzed By IC*

Chloride	26400 mg/L	Sulfate	3640 mg/L
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Scale Type

Anhydrite CaSO ₄ PTB	N/A	Anhydrite CaSO ₄ SI	-0.53
Barite BaSO ₄ PTB	0.0	Barite BaSO ₄ SI	0.22
Calcite CaCO ₃ PTB	N/A	Calcite CaCO ₃ SI	-0.44
Celestite SrSO ₄ PTB	3.40	Celestite SrSO ₄ SI	0.070
Gypsum CaSO ₄ PTB	N/A	Gypsum CaSO ₄ SI	-0.39
Hemihydrate CaSO ₄ PTB	N/A	Hemihydrate CaSO ₄ SI	-0.37

Comments

Scaling predictions calculated using Odde-Tomson model

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