KOLAR Document ID: 1835206

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: STRICKERT
Well Number: SWD-1

API No.: 15-171-20499-00-01
Permit No: D27254.0
Reporting Year: 2024
(January 1 to December 31)

SE - NE - SE - NE (Q/Q/Q/Q) Sec. 1 Twp. 18 S. R. 32 ☐ E ☑ W
3448 feet from ☐ N / ☑ S Line of Section
97 feet from ☑ E / ☐ W Line of Section
County: Scott

I. Injection Fluid:

Type *(Pick one)*: ☐ Fresh Water ☐ Treated Brine ☐ Untreated Brine ☑ Water/Brine
Source: ☑ Produced Water ☐ Other *(Attach list)*
Quality: Total Dissolved Solids: 37200 mg/l Specific Gravity: 1.027 Additives:
(Attach water analysis, if available)

II. Well Data:

Maximum Authorized Injection Pressure: 0 psi Injection Zone: CEDAR HILLS
Maximum Authorized Injection Rate: 1000 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	11835	0	0	0	31
February	11710	0	0	0	29
March	12026	0	0	0	31
April	12530	0	0	0	30
May	13341	0	0	0	31
June	12560	0	0	0	30
July	13286	0	0	0	31
August	12106	0	0	0	31
September	12443	0	0	0	30
October	13353	0	0	0	31
November	12179	0	0	0	30
December	11984	0	0	0	31
TOTAL	149353		0		

Submitted Electronically

Complete Water Analysis

Customer:	**SHAKESPEARE OIL COMPANY**	Equipment Description:	**Strickert WI 1**	Collect Date:	**02/21/2025**
Formation Zone:		Sample Point:	**SWD**	Submit Date:	**03/03/2025**
Geographic Region:	**Kansas**	Customer ID:		Report Date:	**03/05/2025**
Geographic Location:	**Scott County**	Latitude/Longitude:	**0.00, 0.00**	Sample ID:	**BA68082**
System Description:	**Production System**	Account Rep:	**Michael.walters@championx.com**	Location Code:	**503171**

Field Analysis

Analysis	Result		Analysis Method
Total Alkalinity (M-Alk as HCO3)	**151**	mg/L	Titration
Dissolved CO2	**150**	mg/L	Titration
Dissolved H2S	**110**	mg/L	Titration
Pressure Surface	**25**	psi	
Temperature	**60**	° F	
pH of Water	**7.0**		Meter

Sample Analysis

Analysis	Result		Analysis Method
Specific Gravity	**1.027**		Densitometer
Ionic Strength	**0.700**	mol/L	Calculation
Total Dissolved Solids	**37200**	mg/L	Calculation

Cations - Analyzed By ICP

Iron	**1.01**	mg/L	Measured Sodium	**12400**	mg/L
Manganese	**<0.200**	mg/L			
Barium	**<0.100**	mg/L			
Strontium	**34.8**	mg/L			
Calcium	**1170**	mg/L			
Magnesium	**319**	mg/L			
Sodium	**12400**	mg/L			

Anions - Analyzed By IC*

Chloride	**20200**	mg/L	Sulfate	**2880**	mg/L

Scale Type

Anhydrite CaSO4 PTB	N/A	**Anhydrite CaSO4 SI**	-0.75
Barite BaSO4 PTB	N/A	**Barite BaSO4 SI**	N/A
Calcite CaCO3 PTB	N/A	**Calcite CaCO3 SI**	-0.73
Celestite SrSO4 PTB	2.20	**Celestite SrSO4 SI**	0.040
Gypsum CaSO4 PTB	N/A	**Gypsum CaSO4 SI**	-0.34
Hemihydrate CaSO4 PTB	N/A	**Hemihydrate CaSO4 SI**	-0.25

Comments

Scaling predictions calculated using Oddo-Tomson model