

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	_____	_____	_____	_____	_____
	<b>TOTAL</b>	_____	_____	_____	_____	_____

**STAABCO CHEMICAL, INC.**

P.O. Box D  
Plainville, KS 67663

Phone: (785) 737-6141  
Fax: (785) 434-2529

**WATER ANALYSIS REPORT**

Company: Shakespeare  
Source: Glassman 4-35 SWD & 6-36 Inj.

Date Sampled: February, 2018  
Date Analyzed: February, 2018

pH:	6.50	Total Dissolved Solids (mg/L):	124,689
Dissolved H <sub>2</sub> S:	30		
Dissolved CO <sub>2</sub> :	0	Total Ionic Strength:	2.267
Specific Gravity:	1.080		
Density, (lbs/gal):	9.01		

	mg/L	Meq/L
<b>Anions</b>		
Sulfide	67.2	67.2
Bicarbonate:	598	10
Chloride:	74,000	2,085
Sulfate:	2,200	46
<b>Cations</b>		
Calcium:	1,920	96
Magnesium:	1,220	100
Sodium:	44,715	1,944
Barium:	36	
Strontium:	0	
Total Hardness:	3,920	
Total Dissolved Iron:	0	
Ferrous Iron:	Not Determined	

**PROBABLE MINERAL COMPOSITION**

96 Ca	10 HCO <sub>3</sub>		
100 Mg	46 SO <sub>4</sub>		
1,944 Na	2,085 Cl		
		Meq/L	mg/L
		Calcium Bicarbonate:	10 794
		Calcium Sulfate:	46 3,120
		Calcium Chloride:	40 2,241
		Magnesium Bicarbonate:	0 0
		Magnesium Sulfate:	0 0
		Magnesium Chloride:	100 4,762
		Sodium Bicarbonate:	0 0
		Sodium Sulfate:	0 0
		Sodium Chloride:	1,944 113,654

Saturation Values  
In Distilled Water @ 20°C

CaCO <sub>3</sub>	13 mg/L
CaSO <sub>4</sub> * 2H <sub>2</sub> O	2,090 mg/L
MgCO <sub>3</sub>	103 mg/L

**COMMENTS:**

**STAABCO CHEMICAL, INC.**

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**Scale Deposition Potential Analysis**

Company: Shakespeare  
Source: Glassman 4-35 SWD & 6-36 Inj.

Date Sampled: February, 2018  
Date Analyzed: February, 2018

**Brine Composition**

pH:	6.50	Ca, mg/L:	1,920	Total Hardness, mg/L:	3,920
Specific Gravity:	1.080	Mg, mg/L:	1,220	Total Dissolved Solids, mg/L:	124,689
HCO <sub>3</sub> , mg/L:	598	Na, mg/L:	44,715	Total Ionic Strength:	2.267
Cl, mg/L:	74,000	Ba, mg/L:	36		
SO <sub>4</sub> , mg/L:	2,200	Sr, mg/L:	0	Total Dissolved Iron, mg/L:	0.0

**Calcium Carbonate Scale Indices**

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Stiff-Davis Index:	-0.14	0.16	0.51	0.96	0.29	0.60
Deposition, lbs/1,000 Bbls:	-118.5	75.0	214.6	296.2	136.8	237.4

**Calcium Sulfate Scale Indices**

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Supersaturation Ratio:	0.53	0.53	0.54	0.54	0.53	0.54
Deposition, lbs/1,000 Bbls:	-969.2	-963.1	-940.8	-928.7	-954.5	-936.3

**Barium Sulfate Scale Indices**

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Supersaturation Ratio:	342.10	248.29	179.36	127.70	218.16	166.66
Deposition, lbs/1,000 Bbls:	21.4	21.3	21.3	21.2	21.3	21.3

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