

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	_____	_____	_____	_____	_____

STAABCO CHEMICAL, INC.

P.O. Box D
Plainville, KS 67663

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

WATER ANALYSIS REPORT

Company: Shakespeare
Source: Strickert #2 SWD

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

pH:	7.00	Total Dissolved Solids (mg/L):	42,608
Dissolved H ₂ S:	1		
Dissolved CO ₂ :	0	Total Ionic Strength:	0.814
Specific Gravity:	1.030		
Density, (lbs/gal):	8.59		

	mg/L	Meq/L
Anions		
Sulfide	17.6	17.6
Bicarbonate:	519	9
Chloride:	23,000	648
Sulfate:	3,100	65
Cations		
Calcium:	1,640	82
Magnesium:	439	36
Sodium:	13,868	603
Barium:	42	
Strontium:	0	
Total Hardness:	2,360	
Total Dissolved Iron:	0	
Ferrous Iron:	Not Determined	

PROBABLE MINERAL COMPOSITION

82 Ca	9 HCO ₃		
36 Mg	65 SO ₄	Meq/L	mg/L
603 Na	648 Cl		
Saturation Values			
In Distilled Water @ 20°C			
CaCO ₃	13 mg/L	Calcium Bicarbonate:	9 689
CaSO ₄ * 2H ₂ O	2,090 mg/L	Calcium Sulfate:	65 4,396
MgCO ₃	103 mg/L	Calcium Chloride:	9 495
		Magnesium Bicarbonate:	0 0
		Magnesium Sulfate:	0 0
		Magnesium Chloride:	36 1,714
		Sodium Bicarbonate:	0 0
		Sodium Sulfate:	0 0
		Sodium Chloride:	603 35,250

COMMENTS:

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Scale Deposition Potential Analysis

Company: Shakespeare
Source: Strickert #2 SWD

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

Brine Composition

pH:	7.00	Ca, mg/L:	1,640	Total Hardness, mg/L:	2,360
Specific Gravity:	1.030	Mg, mg/L:	439	Total Dissolved Solids, mg/L:	42,608
HCO ₃ , mg/L:	519	Na, mg/L:	13,868	Total Ionic Strength:	0.814
Cl, mg/L:	23,000	Ba, mg/L:	42		
SO ₄ , mg/L:	3,100	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:	0.12	0.41	0.79	1.25	0.54	0.90
Deposition, lbs/1,000 Bbls:	76.7	176.2	243.3	278.4	206.3	254.1

Calcium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Supersaturation Ratio:	0.88	0.88	0.88	0.90	0.88	0.88
Deposition, lbs/1,000 Bbls:	-215.6	-218.8	-207.7	-178.5	-217.7	-204.3

Barium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Supersaturation Ratio:	1208.73	849.51	602.05	419.59	742.32	556.07
Deposition, lbs/1,000 Bbls:	25.0	25.0	24.9	24.9	24.9	24.9

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