

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 #1 SWD

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

pH:	5.50	Total Dissolved Solids (mg/L):	34,011
Dissolved H ₂ S:	15		
Dissolved CO ₂ :	0	Total Ionic Strength:	0.664
Specific Gravity:	1.020		
Density, (lbs/gal):	8.51		

	mg/L	Meq/L
Anions		
Sulfide	12.8	12.8
Bicarbonate:	323	5
Chloride:	19,000	535
Sulfate:	2,000	42
Cations		
Calcium:	1,440	72
Magnesium:	561	46
Sodium:	10,676	464
Barium:	10	
Strontium:	0	
Total Hardness:	2,360	
Total Dissolved Iron:	0	
Ferrous Iron:	Not Determined	

PROBABLE MINERAL COMPOSITION

72 Ca	5 HCO ₃		
46 Mg	42 SO ₄	Meq/L	mg/L
464 Na	535 Cl		
Saturation Values			
In Distilled Water @ 20°C			
CaCO ₃	13 mg/L	Calcium Bicarbonate:	5 430
CaSO ₄ * 2H ₂ O	2,090 mg/L	Calcium Sulfate:	42 2,836
MgCO ₃	103 mg/L	Calcium Chloride:	25 1,389
		Magnesium Bicarbonate:	0 0
		Magnesium Sulfate:	0 0
		Magnesium Chloride:	46 2,191
		Sodium Bicarbonate:	0 0
		Sodium Sulfate:	0 0
		Sodium Chloride:	464 27,136

COMMENTS:

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Scale Deposition Potential Analysis

Company: Shakespeare
Source: Strickert #1 SWD

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

Brine Composition

pH:	5.50	Ca, mg/L:	1,440	Total Hardness, mg/L:	2,360
Specific Gravity:	1.020	Mg, mg/L:	561	Total Dissolved Solids, mg/L:	34,011
HCO ₃ , mg/L:	323	Na, mg/L:	10,676	Total Ionic Strength:	0.664
Cl, mg/L:	19,000	Ba, mg/L:	10	Total Dissolved Iron, mg/L:	0.0
SO ₄ , mg/L:	2,000	Sr, mg/L:	0		

Calcium Carbonate Scale Indices

					Specified Temperatures
Temperature, °F:	75	100	125	150	110 130
Stiff-Davis Index:	-1.57	-1.25	-0.89	-0.45	-1.11 -0.80
Deposition, lbs/1,000 Bbls:	-2092.5	#####	-710.7	-284.7	-1001.1 -660.7

Calcium Sulfate Scale Indices

					Specified Temperatures
Temperature, °F:	75	100	125	150	110 130
Supersaturation Ratio:	0.69	0.68	0.69	0.71	0.68 0.69
Deposition, lbs/1,000 Bbls:	-452.5	-457.6	-449.9	-415.3	-457.9 -447.2

Barium Sulfate Scale Indices

					Specified Temperatures
Temperature, °F:	75	100	125	150	110 130
Supersaturation Ratio:	233.14	162.73	115.30	80.96	142.07 106.67
Deposition, lbs/1,000 Bbls:	5.9	5.9	5.9	5.9	5.9 5.9

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