

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: Janzen #3-36 Inj.

Date Sampled: February, 2019
Date Analyzed: February, 2019

pH:	6.40	Total Dissolved Solids (mg/L):	85,910
Dissolved H ₂ S:	14		
Dissolved CO ₂ :	0	Total Ionic Strength:	1.589
Specific Gravity:	1.045		
Density, (lbs/gal):	8.72		

	mg/L	Meq/L
Anions		
Sulfide	24	24
Bicarbonate:	293	5
Chloride:	47,000	1,324
Sulfate:	6,000	125
Cations		
Calcium:	1,560	78
Magnesium:	708	58
Sodium:	30,308	1,318
Barium:	42	
Strontium:	0	
Total Hardness:	2,720	
Total Dissolved Iron:	0	
Ferrous Iron:	Not Determined	

PROBABLE MINERAL COMPOSITION

78 Ca	5 HCO ₃		
58 Mg	125 SO ₄	Meq/L	mg/L
1,318 Na	1,324 Cl		
Saturation Values			
In Distilled Water @ 20°C			
CaCO ₃	13 mg/L	Calcium Bicarbonate:	5 389
CaSO ₄ * 2H ₂ O	2,090 mg/L	Calcium Sulfate:	73 4,983
MgCO ₃	103 mg/L	Calcium Chloride:	0 0
		Magnesium Bicarbonate:	0 0
		Magnesium Sulfate:	52 3,118
		Magnesium Chloride:	6 295
		Sodium Bicarbonate:	0 0
		Sodium Sulfate:	0 0
		Sodium Chloride:	1,318 77,035

Comments:

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Scale Deposition Potential Analysis

Company: Shakespeare
Source: Janzen #3-36 Inj.

Date Sampled: February, 2019
Date Analyzed: February, 2019

Brine Composition

pH:	6.40	Ca, mg/L:	1,560	Total Hardness, mg/L:	2,720
Specific Gravity:	1.045	Mg, mg/L:	708	Total Dissolved Solids, mg/L:	85,910
HCO ₃ , mg/L:	293	Na, mg/L:	30,308	Total Ionic Strength:	1.589
Cl, mg/L:	47,000	Ba, mg/L:	42		
SO ₄ , mg/L:	6,000	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:	-0.79	-0.49	-0.12	0.35	-0.36	-0.03
Deposition, lbs/1,000 Bbls:	-568.1	-293.1	-51.4	87.0	-187.8	-13.4

Calcium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Supersaturation Ratio:	0.99	0.99	1.00	1.02	1.00	1.01
Deposition, lbs/1,000 Bbls:	-18.2	-15.5	5.0	30.9	-9.4	9.9

Barium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Supersaturation Ratio:	1467.59	#####	890.22	599.99	1100.69	810.53
Deposition, lbs/1,000 Bbls:	25.0	25.0	25.0	24.9	25.0	25.0

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