

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: Abundant Oil
Source: Marcotte #3

Date Sampled: September 7, 2018
Date Analyzed: September 9, 2018

pH:	7.00	Total Dissolved Solids (mg/L):	71,247
Dissolved H ₂ S:	1		
Dissolved CO ₂ :	0	Total Ionic Strength:	1.334
Specific Gravity:	1.040		
Density, (lbs/gal):	8.67		

	mg/L	Meq/L
Anions		
Sulfide	44.8	44.8
Bicarbonate:	305	5
Chloride:	42,000	1,183
Sulfate:	1,600	33
Cations		
Calcium:	3,200	160
Magnesium:	317	26
Sodium:	23,815	1,035
Barium:	9	
Strontium:	0	
Total Hardness:	3,720	
Total Dissolved Iron:	0	
Ferrous Iron:	Not Determined	

PROBABLE MINERAL COMPOSITION

160 Ca	5 HCO ₃		
26 Mg	33 SO ₄	Meq/L	mg/L
1,035 Na	1,183 Cl		
Saturation Values			
In Distilled Water @ 20°C			
CaCO ₃	13 mg/L	Calcium Bicarbonate:	5 405
CaSO ₄ * 2H ₂ O	2,090 mg/L	Calcium Sulfate:	33 2,269
MgCO ₃	103 mg/L	Calcium Chloride:	122 6,753
		Magnesium Bicarbonate:	0 0
		Magnesium Sulfate:	0 0
		Magnesium Chloride:	26 1,238
		Sodium Bicarbonate:	0 0
		Sodium Sulfate:	0 0
		Sodium Chloride:	1,035 60,532

COMMENTS:

STAABCO CHEMICAL, INC.

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Scale Deposition Potential Analysis

Company: Abundant Oil
Source: Marcotte #3

Date Sampled: September 7, 2018
Date Analyzed: September 9, 2018

Brine Composition

pH:	7.00	Ca, mg/L:	3,200	Total Hardness, mg/L:	3,720
Specific Gravity:	1.040	Mg, mg/L:	317	Total Dissolved Solids, mg/L:	71,247
HCO ₃ , mg/L:	305	Na, mg/L:	23,815	Total Ionic Strength:	1.334
Cl, mg/L:	42,000	Ba, mg/L:	9	Total Dissolved Iron, mg/L:	0.0
SO ₄ , mg/L:	1,600	Sr, mg/L:	0		

Calcium Carbonate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Stiff-Davis Index:	0.13	0.40	0.78	1.27	0.54	0.88
Deposition, lbs/1,000 Bbls:	41.6	103.7	144.4	165.0	122.3	150.6

Calcium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Supersaturation Ratio:	0.64	0.64	0.65	0.66	0.64	0.65
Deposition, lbs/1,000 Bbls:	-451.3	-449.1	-432.1	-408.9	-443.9	-428.1

Barium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Supersaturation Ratio:	93.39	85.08	57.59	38.55	71.44	52.29
Deposition, lbs/1,000 Bbls:	5.3	5.3	5.3	5.2	5.3	5.3

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