

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.

701 S. Cochran
Plainville, KS 67663

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

WATER ANALYSIS REPORT

Company: Phillips Exploration Date Sampled: 0
Source: Galen Gayer #2 Date Analyzed: 0

pH: 6.40 Total Dissolved Solids (mg/L): 134,229
Dissolved H₂S: 0
Dissolved CO₂: 0 Total Ionic Strength: 2.468
Specific Gravity: 1.085
Density, (lbs/gal): 9.05

	mg/L	Meq/L
Anions		
Sulfide	0	0
Bicarbonate:	140	2
Chloride:	79,000	2,225
Sulfate:	3,600	75
Cations		
Calcium:	2,960	148
Magnesium:	1,171	96
Sodium:	47,349	2,059
Barium:	9	
Strontium:	0	
Total Hardness:	4,880	
Total Dissolved Iron:	1	
Ferrous Iron:	Not Determined	

PROBABLE MINERAL COMPOSITION

148 Ca	2 HCO ₃		
96 Mg	75 SO ₄	Meq/L	mg/L
2,059 Na	2,225 Cl		
Saturation Values			
In Distilled Water @ 20°C			
CaCO ₃	13 mg/L	Calcium Bicarbonate:	2 186
CaSO ₄ * 2H ₂ O	2,090 mg/L	Calcium Sulfate:	75 5,105
MgCO ₃	103 mg/L	Calcium Chloride:	71 3,924
		Magnesium Bicarbonate:	0 0
		Magnesium Sulfate:	0 0
		Magnesium Chloride:	96 4,572
		Sodium Bicarbonate:	0 0
		Sodium Sulfate:	0 0
		Sodium Chloride:	2,059 120,349

STAABCO CHEMICAL, INC.

701 S. Cochran
Plainville, KS 67663

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

Scale Deposition Potential Analysis

Company: Phillips Exploration
Source: Galen Gayer #2

Date Sampled: 0
Date Analyzed: 0

Brine Composition

pH:	6.40	Ca, mg/L:	2,960	Total Hardness, mg/L:	4,880
Specific Gravity:	1.085	Mg, mg/L:	1,171	Total Dissolved Solids, mg/L:	134,229
HCO ₃ , mg/L:	140	Na, mg/L:	47,349	Total Ionic Strength:	2.468
Cl, mg/L:	79,000	Ba, mg/L:	9	Total Dissolved Iron, mg/L:	0.8
SO ₄ , mg/L:	3,600	Sr, mg/L:	0		

Calcium Carbonate Scale Indices

	75	100	125	150	110	130
Temperature, °F:						
Stiff-Davis Index:	-0.62	-0.34	0.01	0.47	-0.21	0.10
Deposition, lbs/1,000 Bbls:	-249.1	-95.9	0.6	51.6	-51.5	15.0

Specified Temperatures

Calcium Sulfate Scale Indices

	75	100	125	150	110	130
Temperature, °F:						
Supersaturation Ratio:	0.95	0.95	0.96	0.97	0.95	0.96
Deposition, lbs/1,000 Bbls:	-100.8	-94.4	-73.7	-62.0	-86.2	-69.5

Specified Temperatures

Barium Sulfate Scale Indices

	75	100	125	150	110	130
Temperature, °F:						
Supersaturation Ratio:	131.70	96.69	69.99	50.26	84.90	65.16
Deposition, lbs/1,000 Bbls:	5.3	5.3	5.3	5.2	5.3	5.3

Specified Temperatures

[Return To Main Menu](#)

