

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	_____	_____	_____	_____	_____
	<b>TOTAL</b>	_____	_____	_____	_____	_____

# STAABCO CHEMICAL, INC.

P.O. Box D  
Plainville, KS 67663

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

## WATER ANALYSIS REPORT

Company: Phillips Date Sampled: 0  
Source: Herman Trust 3-34 SWD Date Analyzed: 0

pH: 7.00 Total Dissolved Solids (mg/L): 121,583  
Dissolved H<sub>2</sub>S: 5  
Dissolved CO<sub>2</sub>: 0 Total Ionic Strength: 2.189  
Specific Gravity: 1.080  
Density, (lbs/gal): 9.01

	mg/L	Meq/L
Anions		
Sulfide	256	256
Bicarbonate:	378	6
Chloride:	72,000	2,028
Sulfate:	2,100	44
Cations		
Calcium:	2,800	140
Magnesium:	317	26
Sodium:	43,979	1,912
Barium:	9	
Strontium:	0	
Total Hardness:	3,320	
Total Dissolved Iron:	0	
Ferrous Iron:	Not Determined	

### PROBABLE MINERAL COMPOSITION

140 Ca	6 HCO <sub>3</sub>		
26 Mg	44 SO <sub>4</sub>		
1,912 Na	2,028 Cl		
		Meq/L	mg/L
		6	502
		44	2,978
		90	4,998
		0	0
		0	0
		26	1,238
		0	0
		0	0
		1,912	111,783

Saturation Values  
In Distilled Water @ 20°C

CaCO <sub>3</sub>	13 mg/L	Sodium Bicarbonate:	0	0
CaSO <sub>4</sub> * 2H <sub>2</sub> O	2,090 mg/L	Sodium Sulfate:	0	0
MgCO <sub>3</sub>	103 mg/L	Sodium Chloride:	1,912	111,783

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## Scale Deposition Potential Analysis

Company: Phillips  
Source: Herman Trust 3-34 SWD

Date Sampled: 0  
Date Analyzed: 0

### Brine Composition

pH:	7.00	Ca, mg/L:	2,800	Total Hardness, mg/L:	3,320
Specific Gravity:	1.080	Mg, mg/L:	317	Total Dissolved Solids, mg/L:	121,583
HCO <sub>3</sub> , mg/L:	378	Na, mg/L:	43,979	Total Ionic Strength:	2.189
Cl, mg/L:	72,000	Ba, mg/L:	9	Total Dissolved Iron, mg/L:	0.0
SO <sub>4</sub> , mg/L:	2,100	Sr, mg/L:	0		

### Calcium Carbonate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Stiff-Davis Index:	0.31	0.59	0.95	1.42	0.72	1.04
Deposition, lbs/1,000 Bbls:	94.7	154.6	189.3	207.2	170.7	194.4

### Calcium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Supersaturation Ratio:	0.63	0.63	0.64	0.64	0.63	0.64
Deposition, lbs/1,000 Bbls:	-618.3	-613.1	-591.6	-577.9	-605.1	-587.1

### Barium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Supersaturation Ratio:	85.47	61.64	44.48	31.52	54.18	41.28
Deposition, lbs/1,000 Bbls:	5.3	5.3	5.2	5.2	5.3	5.2

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