

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: Abundant  
Source: Marcotte SWD

Date Sampled: February 4, 2015  
Date Analyzed: February 4, 2015

pH:	7.00	<b>Total Dissolved Solids (mg/L):</b>	<b>65,355</b>
Dissolved H <sub>2</sub> S:	7		
Dissolved CO <sub>2</sub> :	0	Total Ionic Strength:	1.266
Specific Gravity:	1.045		
Density, (lbs/gal):	8.72		
		mg/L	Meq/L
Anions			
Sulfide		160	160
Bicarbonate:		201	3
Chloride:		39,000	1,099
Sulfate:		1,210	25
Cations			
Calcium:		4,280	214
Magnesium:		415	34
Sodium:		20,219	879
Barium:		30	
Strontium:		0	
Total Hardness:		4,960	
Total Dissolved Iron:		0	
Ferrous Iron:		Not Determined	

### PROBABLE MINERAL COMPOSITION

214 Ca	3 HCO <sub>3</sub>		
34 Mg	25 SO <sub>4</sub>		
879 Na	1,099 Cl		
		Meq/L	mg/L
		Calcium Bicarbonate:	3 267
		Calcium Sulfate:	25 1,716
		Calcium Chloride:	185 10,295
		Magnesium Bicarbonate:	0 0
		Magnesium Sulfate:	0 0
		Magnesium Chloride:	34 1,619
		Sodium Bicarbonate:	0 0
		Sodium Sulfate:	0 0
		Sodium Chloride:	879 51,392
Saturation Values			
In Distilled Water @ 20°C			
CaCO <sub>3</sub>	13 mg/L		
CaSO <sub>4</sub> * 2H <sub>2</sub> O	2,090 mg/L		
MgCO <sub>3</sub>	103 mg/L		

**COMMENTS: File Update - KCC Report**

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## Scale Deposition Potential Analysis

Company: Abundant  
Source: Marcotte SWD

Date Sampled: February 4, 2015  
Date Analyzed: February 4, 2015

### Brine Composition

pH:	7.00	Ca, mg/L:	4,280	Total Hardness, mg/L:	4,960
Specific Gravity:	1.045	Mg, mg/L:	415	Total Dissolved Solids, mg/L:	65,355
HCO <sub>3</sub> , mg/L:	201	Na, mg/L:	20,219	Total Ionic Strength:	1.266
Cl, mg/L:	39,000	Ba, mg/L:	30	Total Dissolved Iron, mg/L:	0.0
SO <sub>4</sub> , mg/L:	1,210	Sr, mg/L:	0		

### Calcium Carbonate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Stiff-Davis Index:	0.07	0.35	0.73	1.22	0.49	0.83
Deposition, lbs/1,000 Bbls:	19.5	63.3	94.5	108.2	77.9	98.5

### Calcium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Supersaturation Ratio:	0.64	0.64	0.65	0.67	0.65	0.66
Deposition, lbs/1,000 Bbls:	-335.6	-332.9	-317.8	-298.0	-327.5	-314.6

### Barium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	110	130
Supersaturation Ratio:	246.88	212.29	145.32	98.15	180.01	132.47
Deposition, lbs/1,000 Bbls:	17.8	17.8	17.7	17.7	17.7	17.7

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