



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	_____	_____	_____	_____	_____

COMMENTS: File Update - KCC Report

STAABCO CHEMICAL, INC.

P.O. Box D
Plainville, KS 67663

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

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 ₃ , 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 ₄ , 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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