



**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: Phillips Exploration
Source: Smiley #2

Date Sampled: ~~October 3, 2014~~
Date Analyzed: ~~October 3, 2014~~

pH:	7.00	Total Dissolved Solids (mg/L):	146,203
Dissolved H ₂ S:	0		
Dissolved CO ₂ :	0	Total Ionic Strength:	2.611
Specific Gravity:	1.100		
Density, (lbs/gal):	9.17		

Anions

	mg/L	Meq/L
Sulfide	0	0
Bicarbonate:	116	2
Chloride:	89,000	2,507
Sulfate:	42	1

Cations

Calcium:	3,440	172
Magnesium:	195	16
Sodium:	53,402	2,322
Barium:	8	
Strontium:	0	
Total Hardness:	3,760	
Total Dissolved Iron:	2	
Ferrous Iron:	Not Determined	

PROBABLE MINERAL COMPOSITION

172 Ca	2 HCO ₃		
16 Mg	1 SO ₄		
2,322 Na	2,507 Cl		
		Meq/L	mg/L
		2	154
		1	60
		169	9,392
		0	0
		0	0
		16	762
		0	0
		0	0
		2,322	135,733

Saturation Values
In Distilled Water @ 20°C

CaCO ₃	13 mg/L		
CaSO ₄ * 2H ₂ O	2,090 mg/L		
MgCO ₃	103 mg/L		

COMMENTS: Showing a Kansas City formation being produced.
Thank you for your business, T.J. Staab

1900

WATERBURY, CONNECTICUT



WATERBURY, CONNECTICUT

WATERBURY, CONNECTICUT

Year	Population	Area	Water	Gas	Electricity
1900	10,000	100	100	100	100
1910	15,000	150	150	150	150
1920	20,000	200	200	200	200
1930	25,000	250	250	250	250
1940	30,000	300	300	300	300
1950	35,000	350	350	350	350
1960	40,000	400	400	400	400
1970	45,000	450	450	450	450
1980	50,000	500	500	500	500
1990	55,000	550	550	550	550
2000	60,000	600	600	600	600
2010	65,000	650	650	650	650
2020	70,000	700	700	700	700

Thank you for your business. We are always striving to provide the best service possible.

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Scale Deposition Potential Analysis

Company: Phillips Exploration
Source: Smiley #2

Date Sampled: ~~October 3, 2011~~
Date Analyzed: ~~October 8, 2011~~

Brine Composition

pH:	7.00	Ca, mg/L:	3,440	Total Hardness, mg/L:	3,760
Specific Gravity:	1.100	Mg, mg/L:	195	Total Dissolved Solids, mg/L:	146,203
HCO ₃ , mg/L:	116	Na, mg/L:	53,402	Total Ionic Strength:	2.611
Cl, mg/L:	89,000	Ba, mg/L:	8	Total Dissolved Iron, mg/L:	2.2
SO ₄ , mg/L:	42	Sr, mg/L:	0		

Calcium Carbonate Scale Indices

Temperature, °F:	75	100	125	150	Specified Temperatures	
Stiff-Davis Index:	0.03	0.32	0.68	1.11	110	130
Deposition, lbs/1,000 Bbls:	-1.2	30.3	51.4	60.9	0.46	0.76
					40.6	53.9

Calcium Sulfate Scale Indices

Temperature, °F:	75	100	125	150	Specified Temperatures	
Supersaturation Ratio:	0.02	0.02	0.02	0.02	110	130
Deposition, lbs/1,000 Bbls:	-1272.5	#####	-1251.5	-1245.5	0.02	0.02
					-1259.9	-1248.7

Barium Sulfate Scale Indices

Temperature, °F:	75	100	125	150	Specified Temperatures	
Supersaturation Ratio:	1.26	0.95	0.73	0.55	110	130
Deposition, lbs/1,000 Bbls:	1.0	-0.2	-1.8	-3.8	0.85	0.69
					-0.8	-2.2

Return To Main Menu



STATE OF TEXAS

County of _____

Year 19__

County Commissioners' Report



For the year ending _____

Presented to the _____

Item	Amount	Source	Destination
...
...
...

Item	Amount	Source	Destination
...
...
...

Item	Amount	Source	Destination
...
...
...

Item	Amount	Source	Destination
...
...
...

Attest: _____