

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	_____	_____	_____	_____	_____



WATER ANALYSIS REPORT

Company: Haak Petroleum Consultants, Inc.

Sample Point: Wellhead

Source: Lowe Jones

Date Sampled: 5/13/2014

Well No: 8

Date Analyzed: 5/15/2014

pH:	4.32	Total Dissolved Solids (mg/L):	91,681
Dissolved H ₂ S:	N/A	Total Ionic Strength:	1.753
Dissolved CO ₂ :	N/A	Specific Gravity:	1.085
Resistivity @ 75°F(Ohm-Meters):	0.07950	Density, (lbs/gal):	9.05

Cations	mg/L	Meq/L	Anions	mg/L	Meq/L
Calcium:	5,357	268	Carbonate:	0	0
Magnesium:	828	68	Bicarbonate:	281	5
Sodium:	28,666	1,246	Chloride:	56,000	1,577
Barium:	550		Sulfate:	0	0
Strontium:	0		Total Hardness:	16,800	
Total Dissolved Iron:	7.90				

PROBABLE MINERAL COMPOSITION

	mg/L	Meq/L
Calcium Bicarbonate:	373	5
Calcium Sulfate:	0	0
Calcium Chloride:	14,610	263
Magnesium Bicarbonate:	0	0
Magnesium Sulfate:	0	0
Magnesium Chloride:	3,232	68
Sodium Bicarbonate:	0	0
Sodium Sulfate:	0	0
Sodium Chloride:	72,861	1,246

Remarks



SCALE DEPOSITION POTENTIAL ANALYSIS

Company: Haak Petroleum Consultants, Inc.

Sample Point: Wellhead

Source: Lowe Jones

Date Sampled: 5/13/2014

Well No: 8

Date Analyzed: 5/15/2014

Brine Composition

pH:	4.32	Ca, mg/L:	5,357	Total Hardness, mg/L:	16,800
Specific Gravity:	1.085	Mg, mg/L:	828	Total Dissolved Solids, mg/L:	91,681
HCO ₃ , mg/L:	281	Na, mg/L:	28,666	Total Ionic Strength:	1.753
Cl, mg/L:	56,000	Ba, mg/L:	550	Total Dissolved Iron, mg/L:	7.9
SO ₄ , mg/L:	0	Sr, mg/L:	0		

Calcium Carbonate Scale Indices

Temperature, °F:	75	100	125	150	Specified Temperatures	
Stiff-Davis Index:	-2.31	-2.04	-1.65	-1.19	40	180
Deposition, lbs/1,000 Bbls:	-10519.5	-7025.3	-3971.1	-1712.4	-2.58	-0.58
					-15002.0	-425.3

Calcium Sulfate Scale Indices

Temperature, °F:	75	100	125	150	Specified Temperatures	
Supersaturation Ratio:	0.000	0.000	0.000	0.000	40	180
Deposition, lbs/1,000 Bbls:	-841.7	-839.1	-824.9	-809.7	0.000	0.000
					-836.9	-789.3

Barium Sulfate Scale Indices

Temperature, °F:	75	100	125	150	Specified Temperatures	
Supersaturation Ratio:	0.000	0.000	0.000	0.000	40	180
Deposition, lbs/1,000 Bbls:	-0.3	-0.4	-0.5	-0.8	0.000	0.000
					-0.2	-1.1



SCALE DEPOSITION POTENTIAL TRENDS

Company: Haak Petroleum Consultants, Inc.

Source: Lowe Jones

Well No: 8

Sample Point: Wellhead

Date Sampled: 5/13/2014

Date Analyzed: 5/15/2014

