

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: Haack Operations

Sample Point: Wellhead

Source: Lowe-Jones

Date Sampled: 5/12/2014

Well No: No. 8

Date Analyzed: 5/20/2014

pH:	3.66	Total Dissolved Solids (mg/L):	153,102
Dissolved H ₂ S:	N/A	Total Ionic Strength:	3.127
Dissolved CO ₂ :	N/A	Specific Gravity:	1.115
Resistivity @ 75°F(Ohm-Meters):	0.05540	Density, (lbs/gal):	9.30

Cations	mg/L	Meq/L	Anions	mg/L	Meq/L
Calcium:	15,206	760	Carbonate:	0	0
Magnesium:	1,551	127	Bicarbonate:	0	0
Sodium:	41,204	1,791	Chloride:	95,000	2,676
Barium:	0		Sulfate:	140	3
Strontium:	0		Total Hardness:	44,400	
Total Dissolved Iron:	228.00				

PROBABLE MINERAL COMPOSITION

	mg/L	Meq/L
Calcium Bicarbonate:	0	0
Calcium Sulfate:	199	3
Calcium Chloride:	42,036	757
Magnesium Bicarbonate:	0	0
Magnesium Sulfate:	0	0
Magnesium Chloride:	6,055	127
Sodium Bicarbonate:	0	0
Sodium Sulfate:	0	0
Sodium Chloride:	104,731	1,791

Remarks



SCALE DEPOSITION POTENTIAL ANALYSIS

Company: Haack Operations

Sample Point: Wellhead

Source: Lowe-Jones

Date Sampled: 5/12/2014

Well No: No. 8

Date Analyzed: 5/20/2014

Brine Composition

pH:	3.66	Ca, mg/L:	15,206	Total Hardness, mg/L:	44,400
Specific Gravity:	1.115	Mg, mg/L:	1,551	Total Dissolved Solids, mg/L:	153,102
HCO ₃ , mg/L:	0	Na, mg/L:	41,204	Total Ionic Strength:	3.127
Cl, mg/L:	95,000	Ba, mg/L:	0	Total Dissolved Iron, mg/L:	228.0
SO ₄ , mg/L:	140	Sr, mg/L:	0		

Calcium Carbonate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	40	180
Stiff-Davis Index:	0.000	0.000	0.000	0.000	0.000	0.000
Deposition, lbs/1,000 Bbls:	0.0	0.0	0.0	0.0	0.0	0.0

Calcium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	40	180
Supersaturation Ratio:	0.183	0.183	0.185	0.184	0.183	0.183
Deposition, lbs/1,000 Bbls:	0.0	0.0	0.0	0.0	0.0	0.0

Barium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	40	180
Supersaturation Ratio:	0.000	0.000	0.000	0.000	0.000	0.000
Deposition, lbs/1,000 Bbls:	0.0	0.0	0.0	0.0	0.0	0.0



SCALE DEPOSITION POTENTIAL TRENDS

Company: Haack Operations

Source: Lowe-Jones

Well No: No. 8

Sample Point: Wellhead

Date Sampled: 5/12/2014

Date Analyzed: 5/20/2014

