



**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: FALCON EXPLORATION
Source: RAY SWD

Sample Point: Wellhead
Date Sampled: 1/13/2017
Date Analyzed: 2/3/2017

pH:	7.00	Total Dissolved Solids (mg/L):	59,127
Dissolved H ₂ S:	105.00	Total Ionic Strength:	1.140
Dissolved CO ₂ :	105.00	Specific Gravity:	1.035
Resistivity @ 75°F(Ohm-Meters):	0.12900	Density, (lbs/gal):	8.63

Cations	mg/L	Meq/L	Anions	mg/L	Meq/L
Calcium:	7,776	389	Carbonate:	0	0
Magnesium:	0	0	Bicarbonate:	988	16
Sodium:	16,782	730	Chloride:	35,000	986
Barium:	0		Sulfate:	0	0
Strontium:	0		Total Hardness:	13,600	
Total Dissolved Iron:	0.00				

PROBABLE MINERAL COMPOSITION

	mg/L	Meq/L
Calcium Bicarbonate:	1,313	16
Calcium Sulfate:	0	0
Calcium Chloride:	20,679	373
Magnesium Bicarbonate:	0	0
Magnesium Sulfate:	0	0
Magnesium Chloride:	0	0
Sodium Bicarbonate:	9,771	116
Sodium Sulfate:	0	0
Sodium Chloride:	35,854	613

Remarks

Analyst:



SCALE DEPOSITION POTENTIAL ANALYSIS

Company: FALCON EXPLORATION

Sample Point: Wellhead

Source: RAY SWD

Date Sampled: 1/13/2017

Date Analyzed: 2/3/2017

Brine Composition

pH:	7.00	Ca, mg/L:	7,776	Total Hardness, mg/L:	13,600
Specific Gravity:	1.035	Mg, mg/L:	0	Total Dissolved Solids, mg/L:	59,127
HCO ₃ , mg/L:	988	Na, mg/L:	16,782	Total Ionic Strength:	1.140
Cl, mg/L:	35,000	Ba, mg/L:	0	Total Dissolved Iron, mg/L:	0.0
SO ₄ , mg/L:	0	Sr, mg/L:	0		

Calcium Carbonate Scale Indices

					Specified Temperatures	
Temperature, °F:	75	100	125	150	40	180
Stiff-Davis Index:	1.033	1.303	1.702	2.166	0.742	2.760
Deposition, lbs/1,000 Bbls:	511.3	537.7	554.7	562.7	460.2	565.7

Calcium 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

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: FALCON EXPLORATION

Source: RAY SWD

Sample Point: Wellhead

Date Sampled: 1/13/2017

Date Analyzed: 2/3/2017

