



**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	_____	_____	_____	_____	_____

National Petrochem
 529 Seabrook Road
 Ada, Okla. 74820

Phone: 580-332-0240
 Fax: 580-332-8631

WATER ANALYSIS REPORT

Company: Petroleum Resource Management Company
Water Source: Hammond Produced
Sample Point: G.B. Water Leg

Lab ID Number: JDT
Date Sampled: 5-05-15
Date Analyzed: 5-11-15

Production Data: **BOPD:** 0 **BWPD:** 0 **MMCFD:** 0

	6.86	Total Dissolved Solids (mg/L)	63,901
pH	0.0	Total Ionic Strength	1.197
Dissolved H ₂ S	160.0	Specific Gravity	1.050
Dissolved CO ₂	0.11375	Density (lbs/gal)	8.76
Resistivity @ 75°F (Ohm-Meters)			

Cations	mg/L	Meq/L	Anions	mg/L	Meq/L
Calcium	2,080	104	Carbonate	0	0
Magnesium	923	76	Bicarbonate	390	6
Sodium	21,282	925	Chloride	39,000	1,099
Barium	225		Sulfate	0	0
Strontium	0		Total Hardness	9,000	
Ferrous Iron	44.5				
Total Dissolved Iron	59.0				

PROBABLE MINERAL COMPOSITION

	mg/L	Meq/L
Calcium Bicarbonate:	519	6
Calcium Sulfate:	0	0
Calcium Chloride:	5,417	98
Magnesium Bicarbonate:	0	0
Magnesium Sulfate:	0	0
Magnesium Chloride:	3,604	76
Sodium Bicarbonate:	0	0
Sodium Sulfate:	0	0
Sodium Chloride:	54,093	925

Remarks

WL. County Kansas Sample Received 5-08-15
 Strontium Not Tested Bacteria Report Due 6-08-15
 Requested By Bruce Kiddoo



Analyst: _____

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SCALE DEPOSITION POTENTIAL ANALYSIS

Company: Petroleum Resource Management Company
Water Source: Hammond Produced
Sample Point: G B Water Leg

Lab ID Number: JDT
Date Sampled: 5-05-15
Date Analyzed: 5-11-15

Brine Composition

pH	6.86	Ca, mg/L	2,080	Total Hardness, mg/L	9,000
Specific Gravity	1.050	Mg, mg/L	923	Total Dissolved Solids, mg/L	63,901
HCO ₃ , mg/L	390	Na, mg/L	21,282	Total Ionic Strength	1.197
Cl, mg/L	39,000	Ba, mg/L	225	Total Dissolved Iron, mg/L	59.0
SO ₄ , mg/L	0	Sr, mg/L	0		

Calcium Carbonate Scale Indices

					Specified Temperatures	
Temperature, °F	75	100	125	150	60	90
Stiff-Davis Index	-0.08	0.19	0.59	1.05	-0.24	0.08
Deposition, lbs/1,000 Bbls	-36.0	79.2	160.7	202.2	-124.9	43.1

Calcium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F	75	100	125	150	60	90
Supersaturation Ratio	0.000	0.000	0.000	0.000	0.000	0.000
Deposition, lbs/1,000 Bbls	-1,260.5	-1,257.3	-1,240.1	-1,214.5	-1,264.0	

Barium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F	75	100	125	150	60	90
Supersaturation Ratio	0.000	0.000	0.000	0.000	0.000	0.000
Deposition, lbs/1,000 Bbls	-0.5	-0.6	-0.9	-1.3	-0.4	-0.6

Strontium Sulfate Scale Indices

					Specified Temperatures	
Temperature, °F	75	100	125	150	60	90
Supersaturation Ratio	0.000	0.000	0.000	0.000	0.000	0.000
Deposition, lbs/1,000 Bbls	-8.3	-9.2	-11.1	-13.4	-7.5	-9.0

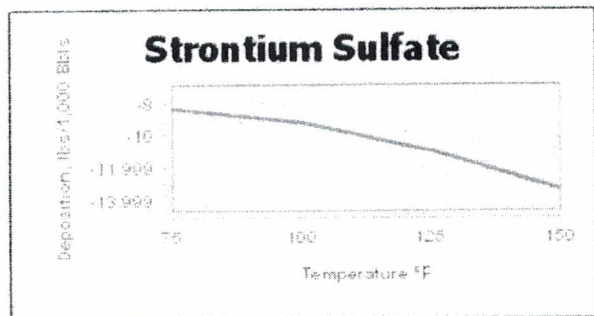
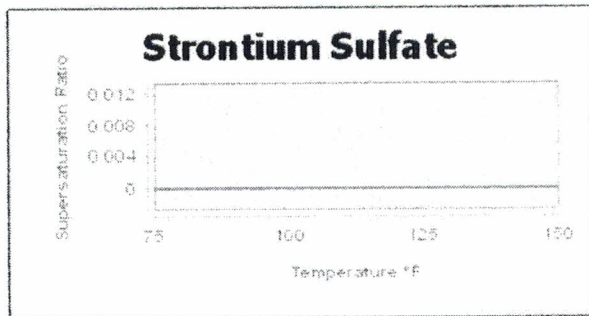
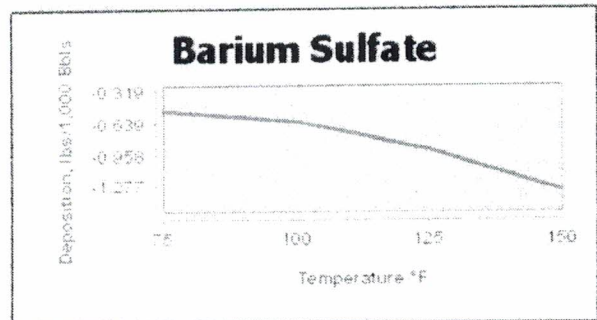
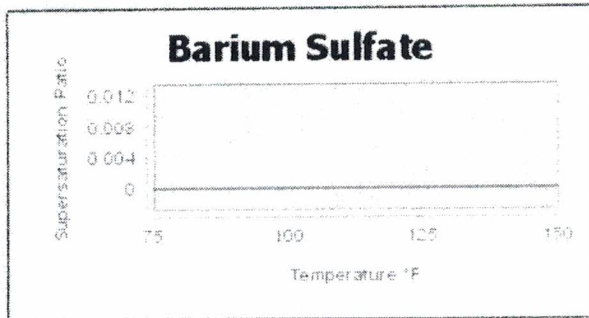
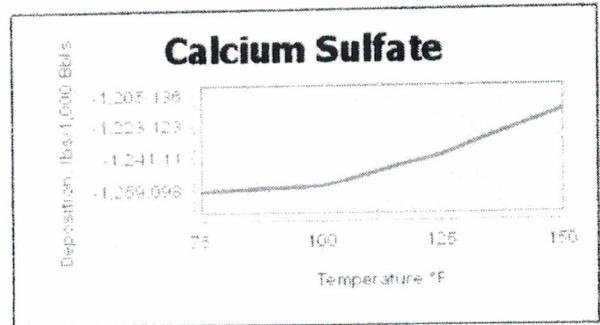
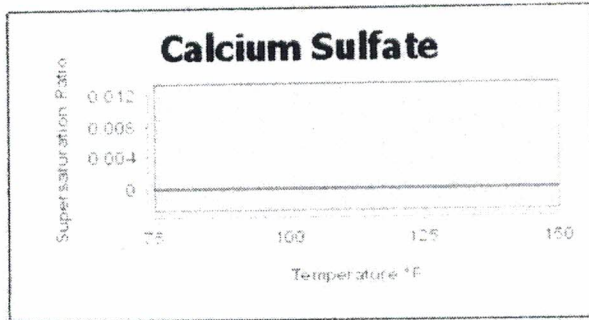
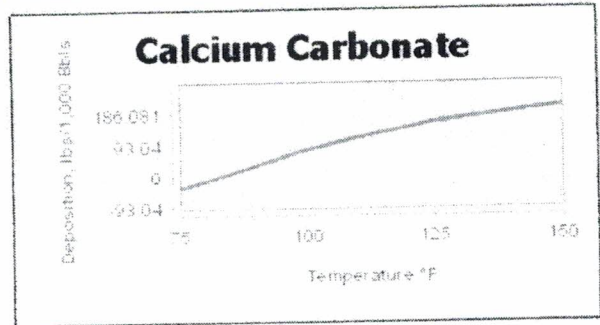
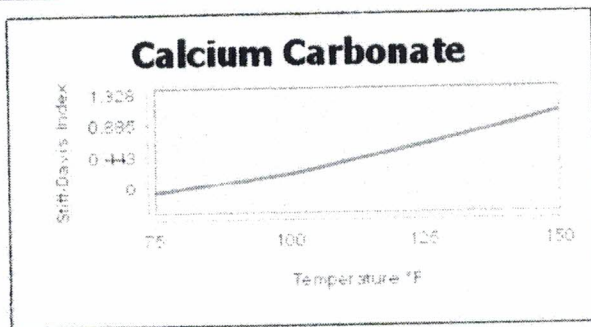
Attuda  *fax*

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SCALE DEPOSITION POTENTIAL TRENDS

Company:	Petroleum Resource Management Company	Lab ID Number:	JDT
Water Source:	Hammond Produced	Date Sampled:	5-05-15
Sample Point:	G.B. Water Leg	Date Analyzed:	5-11-15



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