



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1075594
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1075594

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	TUZICKA-DEWALD ET AL 1-34
Doc ID	1075594

All Electric Logs Run

DIL
MICRO
POR
SONIC
SPECTRAL

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

March 02, 2012

CLAYTON CAMOZZI
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-165-21952-00-00
TUZICKA-DEWALD ET AL 1-34
SE/4 Sec.34-16S-16W
Rush County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office at 303-831-4673.

Respectfully,
CLAYTON CAMOZZI



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 11/16/2011
 Invoice # 524

P.O.#:
 Due Date: 12/16/2011
 Division: *Russell*

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	TUZICKA-DEWALD
Deck	
AFE	<i>[Signature]</i>
Approval	<i>[Signature]</i>
Description	

134

Reference:
 TUZICKA-DEWALD ET AL 1-34

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable
Labor		\$ 963.85	No
Common-Class A	370	\$ 4,764.78	Yes
8 5/8" Basket	3	\$ 1,000.67	Yes
Bulk Truck Matl-Material Service Charge	390	\$ 823.33	No
Calcium Chloride	13	\$ 516.78	Yes
Pump Truck Mileage-Job to Nearest Camp	28	\$ 294.96	No
8 5/8" Centralizer	3	\$ 202.67	Yes
Flo Seal	92	\$ 194.22	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$ 172.60	No
Premium Gel (Bentonite)	7	\$ 120.29	Yes
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes

Item	Quantity	Price	Taxable
Baffle Plate Aluminum, 8 5/8"	1	\$95.00	Yes

Invoice Terms:

Net 30

SubTotal: \$ 9,261.04
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,389.16)

SubTotal for Taxable Items:	\$ 5,955.35
SubTotal for Non-Taxable Items:	\$ 1,916.54
Total:	\$ 7,871.89
Tax:	\$ 375.19

6.30% Rush County Sales Tax

Amount Due: \$ 8,247.07
Applied Payments:
Balance Due: \$ 8,247.07

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 524

Date	11/11/11	Sec.	34	Twp.	16	Range	16	County	Rush	State	KS	On Location		Finish	8:00
------	----------	------	----	------	----	-------	----	--------	------	-------	----	-------------	--	--------	------

Lease _____ Well No. 1-34 Location Galatia, W to 380 Rd, 1/4 S, W into

Contractor Discovery Drilling Rig # 2 Owner To Quality Oilwell Cementing, Inc.

Type Job Surface You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4" T.D. 1071' Charge To Sam Gary Jr. + Associates, Inc.

Csg. 8 5/8" 23# Depth 1071' Street _____

Tbg. Size _____ Depth _____ City _____ State _____

Tool _____ Depth _____ Cement Left in Csg. 42' Shoe Joint 42' The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line _____ Displace 65 1/2 Bbls. Cement Amount Ordered 370 sx Com 30% cc 2% gel

EQUIPMENT

Pumptrk 9	No.	Cementor	Paul	1/4# Floccip
		Helper		Common 370
Bulktrk 10	No.	Driver	Matt	Poz. Mix
		Driver		
Bulktrk PV	No.	Driver	Cory	Gel. 7
		Driver		Calcium 13

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 92#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Est. Circ.	Sand
Mix 370 sx	Handling 390
Displace	Mileage 11
Cement Plug	4 5/8" FLOAT EQUIPMENT
Cement Circulated	Guide Shoe
	Centralizer 3
	Baskets 3
	AFU Inserts
	Float Shoe
	Latch Down
	Duffel Plate + Rubber Plug
	Head + Manifold

Thank You!!

→ TUZICKA-DEWALD ET AL

Pumptrk Charge Long Surface
Mileage 28

X Signature *[Signature]*

Tax _____
Discount _____
Total Charge _____



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 11/22/2011
 Invoice # 69

P.O.#:
 Due Date: 12/22/2011
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

DRLG COMP W/O LOE GG

Account	8300-238
Well/Prospect	TUZICKA-DEWALD 1-34
Deck	
AFE	
Approval	
Description	

Reference:
 TUZICKA-DEWALD ETAL 1-34

Description of Work:
 PROD LONG STRING

Services / Items Included:

Quantity	Price	Taxable	Item	Quantity	Price	Taxable	
Labor	\$ 925.29	No		Salt (Fine)	19	\$268.78	Yes
Common-Class A	\$ 2,781.60	Yes	Pump Truck Mileage-Job to Nearest Camp	28	\$283.17	No	
Gilsonite	\$ 1,606.64	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$226.99	Yes	
CFL 117	\$ 1,098.62	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$165.70	No	
8 5/8" Basket	\$ 960.64	Yes	Flo Seal	56	\$113.49	Yes	
Bulk Truck Matl-Material Service Charge	\$ 516.80	No	KCL	2	\$60.52	Yes	
CD-110	\$ 474.24	Yes					
5 1/2" Turbolizer	\$ 470.19	Yes					
Mud Clear	\$ 374.93	Yes					
Defoamer A or CAF-38	\$ 354.67	Yes					
Auto Fill Float Shoe, 5 1/2"	\$ 310.08	Yes					

Invoice Terms:

Net 30

SubTotal: \$ 10,992.34
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,648.85)

SubTotal for Taxable Items: \$ 7,736.17
 SubTotal for Non-Taxable Items: \$ 1,607.32

6.30% Rush County Sales Tax

Total: \$ 9,343.49
 Tax: \$ 487.38

Amount Due: \$ 9,830.86
 Applied Payments:
 Balance Due: \$ 9,830.86

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 069

Date	11-17-11	Sec.	34	Twp.	16	Range	16	County	Rush	State	KS	On Location		Finish	7:00 pm
Lease	T-2 CK-2 Bennett ETAL			Well No.	1-34			Location	Galation on 5 R2 W to 380 1/2 S W into						

Contractor	D. Scovell #2			Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Type Job	Production String			Charge To	Sam Gary Jr & Assoc.										
Hole Size	7 7/8			T.D.	3630			Street							
Csg.	5 1/2 1550#			Depth	3623			City	State						
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Tool				Depth				Cement Amount Ordered 225 @ Pm C 10% salt 5% gelsonite							
Cement Left in Csg.	22'			Shoe Joint	22'			1/4# FL 3% CD 110 .8% CFL-117 25% CAF 38							
Meas Line				Displace	85 3/4 BCL			Common 20BCL KCL 500 gal mud clear							

EQUIPMENT

Pumptrk	1	No.	Cementer	1	Helper	1
Bulktrk		No.	Driver	1	Driver	1
Bulktrk	14	No.	Driver	14	Driver	14

Pos. Mix	Get. 60-110 117#	
Calcium	Hulls 2 Gal KCL	
Salt	19	
Flowseal	56#	
Kol-Seal	1057	
Mud CLR 48	500 gal	
CFL-117 or CD110 CAF 38	50#	
Sand	CFL 111 176#	
Handling	255	
Mileage		

JOB SERVICES & REMARKS

Remarks:
Rat Hole 30
Mouse Hole 15
Centralizers 13 579 11 13 15
Baskets 3 9 15
D/V or Port Collar
5 1/2 with 3623 Bulk Head 300
Est Circulation Pump 500 gal mud clear
Cement Batched Mixture - Cement
5 1/2 with 180 sec Displace Plug
1 1/2 20BCL with KCL

FLOAT EQUIPMENT

Guide Shoe	5 1/2
Centralizer	89 Turbulizers
Baskets	3
AFU Inserts	
Float Shoe	1 AFU Float shoe
Latch Down	

Landed Plug @ 16400#

Left PSI 600#

Pumptrk Charge 1000
Mileage 28 Prod Long String

[Handwritten Signature]

Tax
Discount
Total Charge

X Signature



DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr & Associates**

1515 Wynkoop St
Suite 700 Denver Co 80202

ATTN:

Tuzicka-Dewald 1-34

34-16s-16w-Rush

Start Date: 2011.11.14 @ 21:38:53

End Date: 2011.11.15 @ 05:21:23

Job Ticket #: 44874 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.11.15 @ 09:52:44



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr & Associates

34-16s-16w-Rush

1515 Wynkoop St
Suite 700 Denver Co 80202

Tuzicka-Dewald 1-34

Job Ticket: 44874

DST#: 1

ATTN:

Test Start: 2011.11.14 @ 21:38:53

GENERAL INFORMATION:

Formation: **Lansing- C-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:32:23

Time Test Ended: 05:21:23

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: 3266.00 ft (KB) To 3309.00 ft (KB) (TVD)

Reference Elevations: 1977.00 ft (KB)

Total Depth: 3309.00 ft (KB) (TVD)

1969.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8321

Inside

Press @ Run Depth: 118.94 psig @ 3270.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.14

End Date:

2011.11.15

Last Calib.:

2011.11.15

Start Time: 21:38:54

End Time:

05:21:23

Time On Btm:

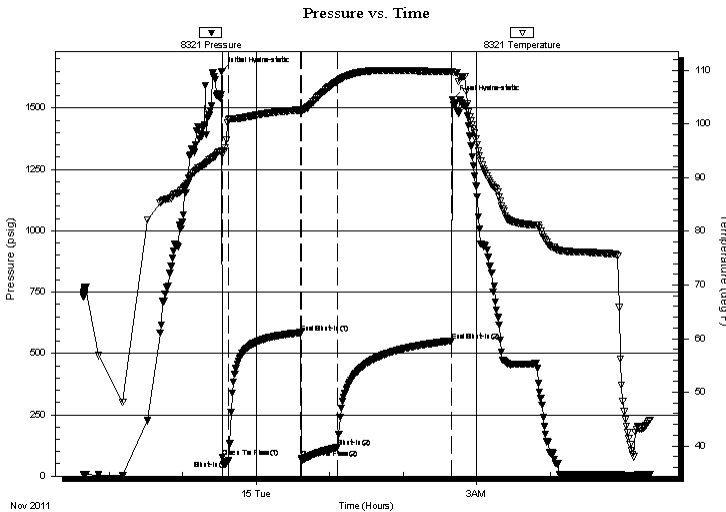
2011.11.14 @ 23:31:53

Time Off Btm:

2011.11.15 @ 02:40:23

TEST COMMENT: IFP-5-Min-Weak blow built to 3 1/4 in
IS- 60- Min-Weak surface blow back
FFP-30-Min-Good blow BOB in 8 min
FSI-90-Min-Weak surface blow back died out in 70 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1649.87	95.02	Initial Hydro-static
1	77.75	94.24	Open To Flow (1)
6	63.13	100.87	Shut-In(1)
65	584.87	102.63	End Shut-In(1)
65	72.69	102.48	Open To Flow (2)
95	118.94	107.98	Shut-In(2)
188	549.43	109.73	End Shut-In(2)
189	1534.53	109.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	Mw with oil spots	1.50
62.00	V SOCGWM 3% O7% G30% W60% M	0.87
5.00	V SOCGWM 3% O2% W95% M	0.07
0.00	124 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr & Associates
1515 Wynkoop St
Suite 700 Denver Co 80202
ATTN:

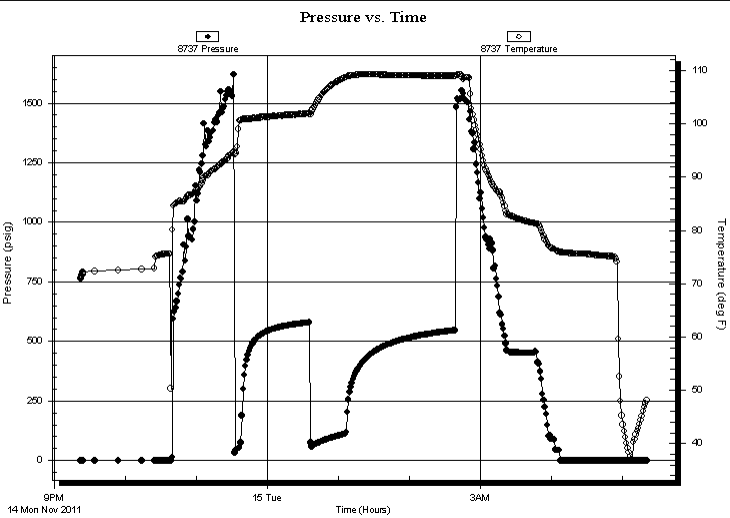
34-16s-16w-Rush
Tuzicka-Dewald 1-34
Job Ticket: 44874 **DST#: 1**
Test Start: 2011.11.14 @ 21:38:53

GENERAL INFORMATION:

Formation: **Lansing- C-E**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 23:32:23
 Tester: Jeff Brown
 Time Test Ended: 05:21:23
 Unit No: 44
 Interval: **3266.00 ft (KB) To 3309.00 ft (KB) (TVD)**
 Reference Elevations: 1977.00 ft (KB)
 Total Depth: 3309.00 ft (KB) (TVD)
 1969.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 8.00 ft

Serial #: 8737 **Outside**
 Press @ RunDepth: psig @ 3270.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.11.14 End Date: 2011.11.15 Last Calib.: 2011.11.15
 Start Time: 21:21:55 End Time: 05:20:54 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP-5-Min-Weak blow built to 3 1/4 in
 ISL- 60- Min-Weak surface blow back
 FFP-30-Min-Good blow BOB in 8 min
 FSL-90-Min-Weak surface blow back died out in 70 min



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
126.00	Mw with oil spots	1.50
62.00	V SOCGWM 3% O7% G30% W60% M	0.87
5.00	V SOCW 3% O2% W95% M	0.07
0.00	124 GIP	0.00

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr & Associates

34-16s-16w-Rush

1515 Wynkoop St
Suite 700 Denver Co 80202

Tuzicka-Dewald 1-34

Job Ticket: 44874

DST#: 1

ATTN:

Test Start: 2011.11.14 @ 21:38:53

Tool Information

Drill Pipe:	Length: 3220.00 ft	Diameter: 3.80 inches	Volume: 45.17 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 45.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3266.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Recorder	0.00	8679	Fluid	3231.00	
Stubb	5.00			3236.00	
Shut In Tool	5.00			3241.00	
Sampler	3.00			3244.00	
Hydraulic tool	5.00			3249.00	
Jars	5.00			3254.00	
Safety Joint	3.00			3257.00	
Packer	4.00			3261.00	35.00 Bottom Of Top Packer
Packer	5.00			3266.00	
Stubb	1.00			3267.00	
Perforations	2.00			3269.00	
Change Over Sub	1.00			3270.00	
Recorder	0.00	8321	Inside	3270.00	
Recorder	0.00	8737	Outside	3270.00	
Drill Pipe	31.00			3301.00	
Change Over Sub	1.00			3302.00	
Perforations	4.00			3306.00	
Bullnose	3.00			3309.00	43.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr & Associates

34-16s-16w-Rush

1515 Wynkoop St
Suite 700 Denver Co 80202

Tuzicka-Dewald 1-34

Job Ticket: 44874

DST#: 1

ATTN:

Test Start: 2011.11.14 @ 21:38:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
126.00	Mw with oil spots	1.503
62.00	VSOCGWM 3%O7%G30%W60%M	0.870
5.00	VSOCWM 3%O2%W95%M	0.070
0.00	124 GIP	0.000

Total Length: 193.00 ft Total Volume: 2.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

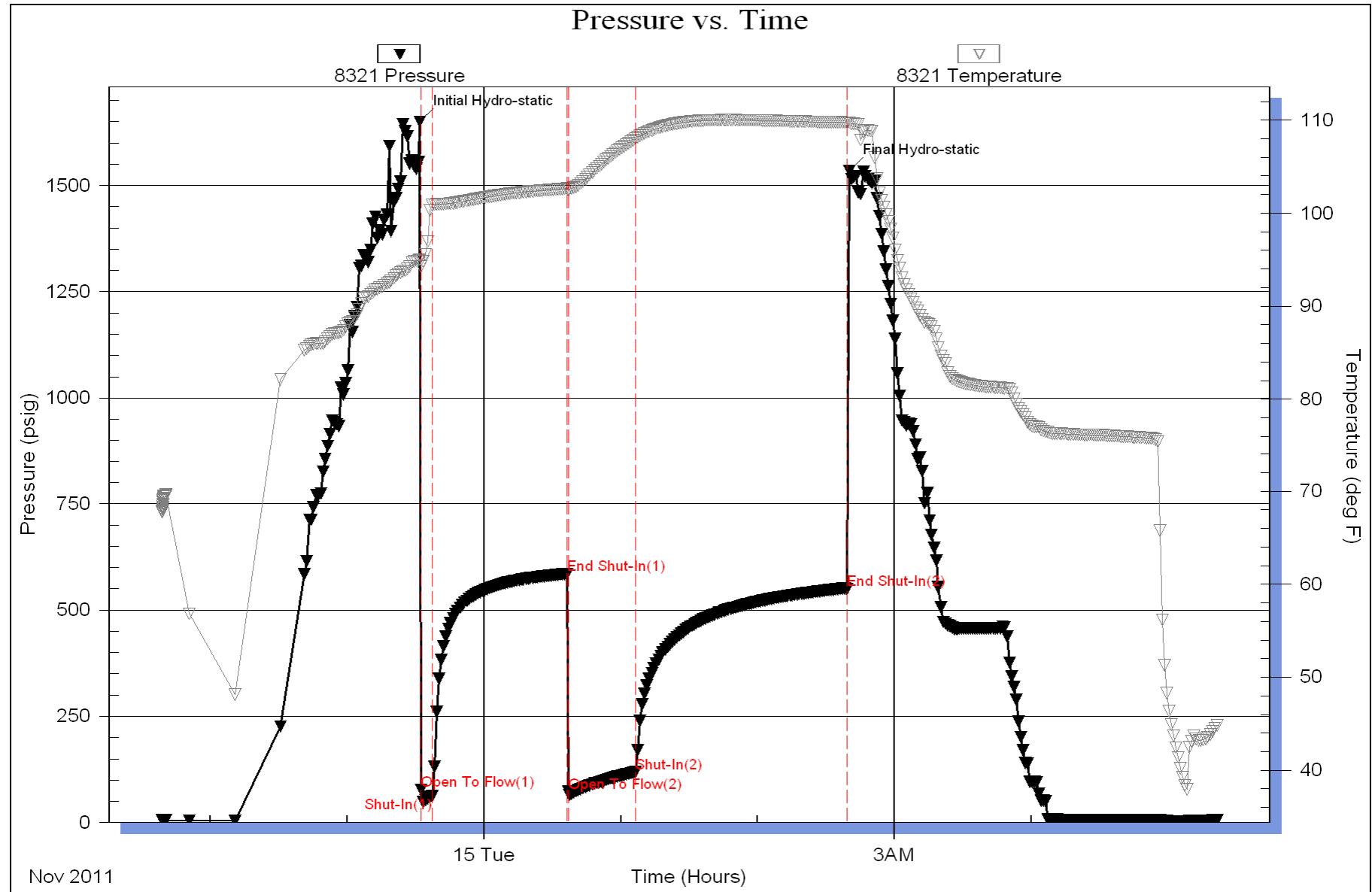
Serial #:

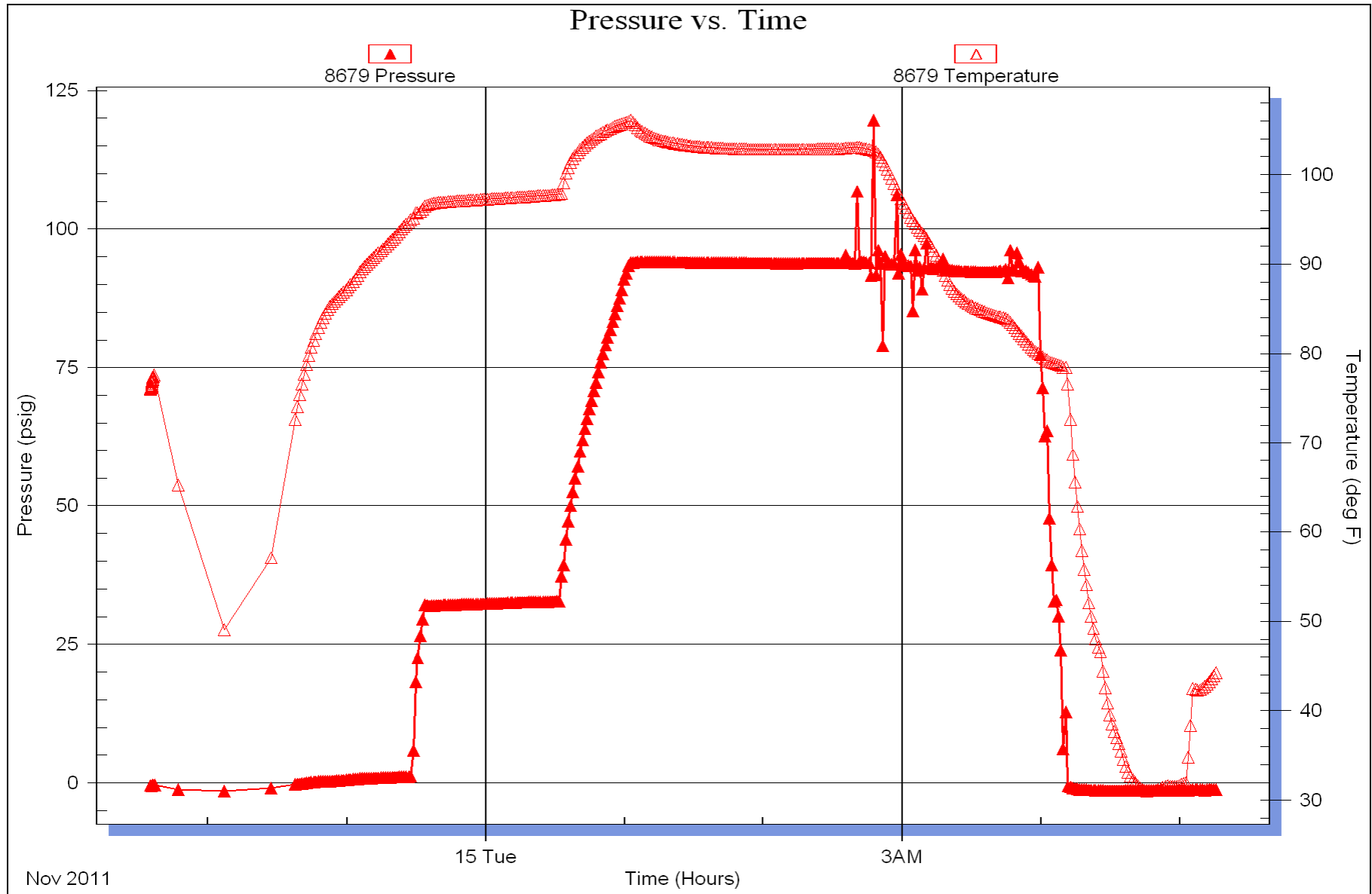
Laboratory Name:

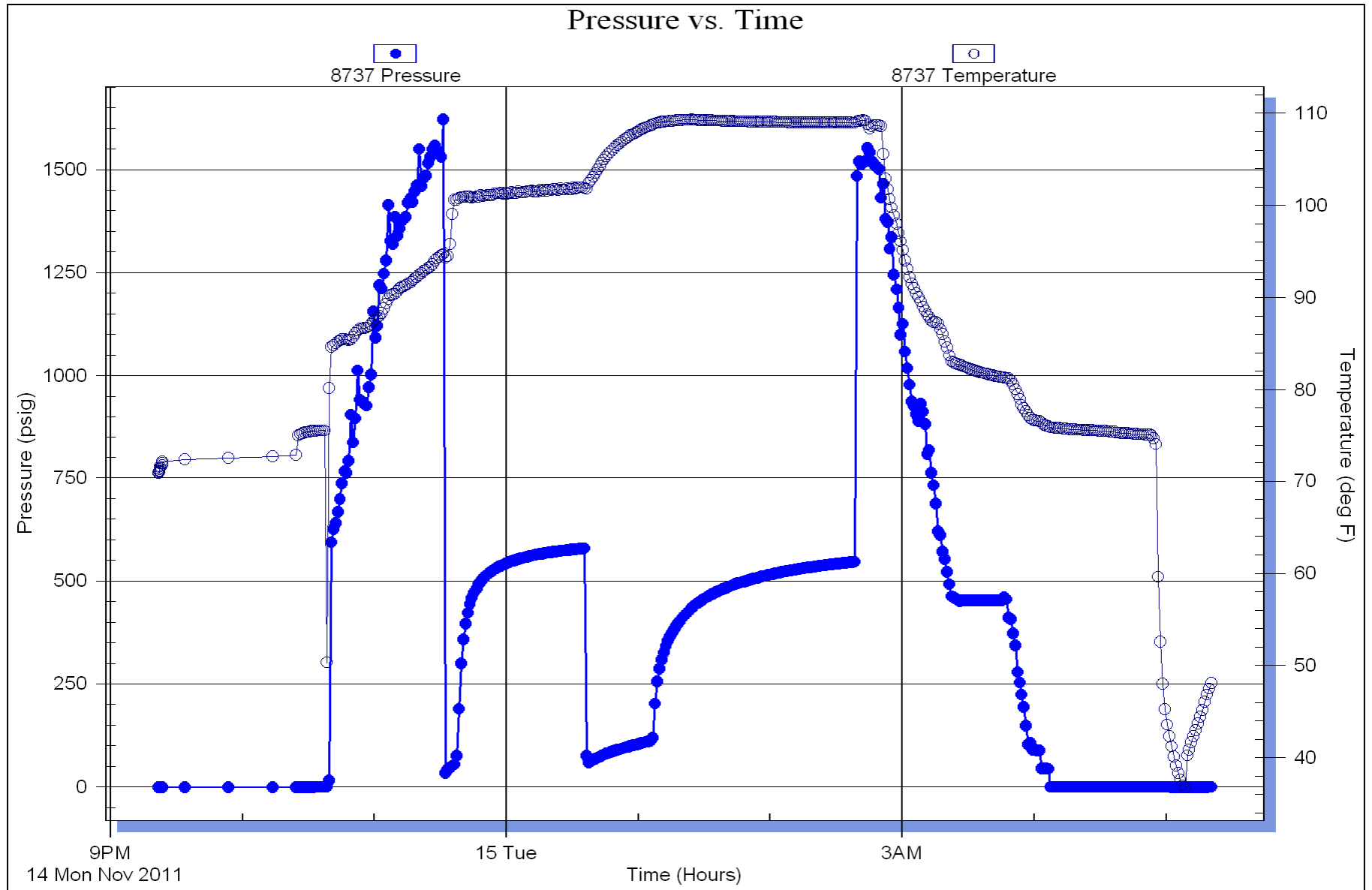
Laboratory Location:

Recovery Comments: 4000 MI of Fluid 220 PSI

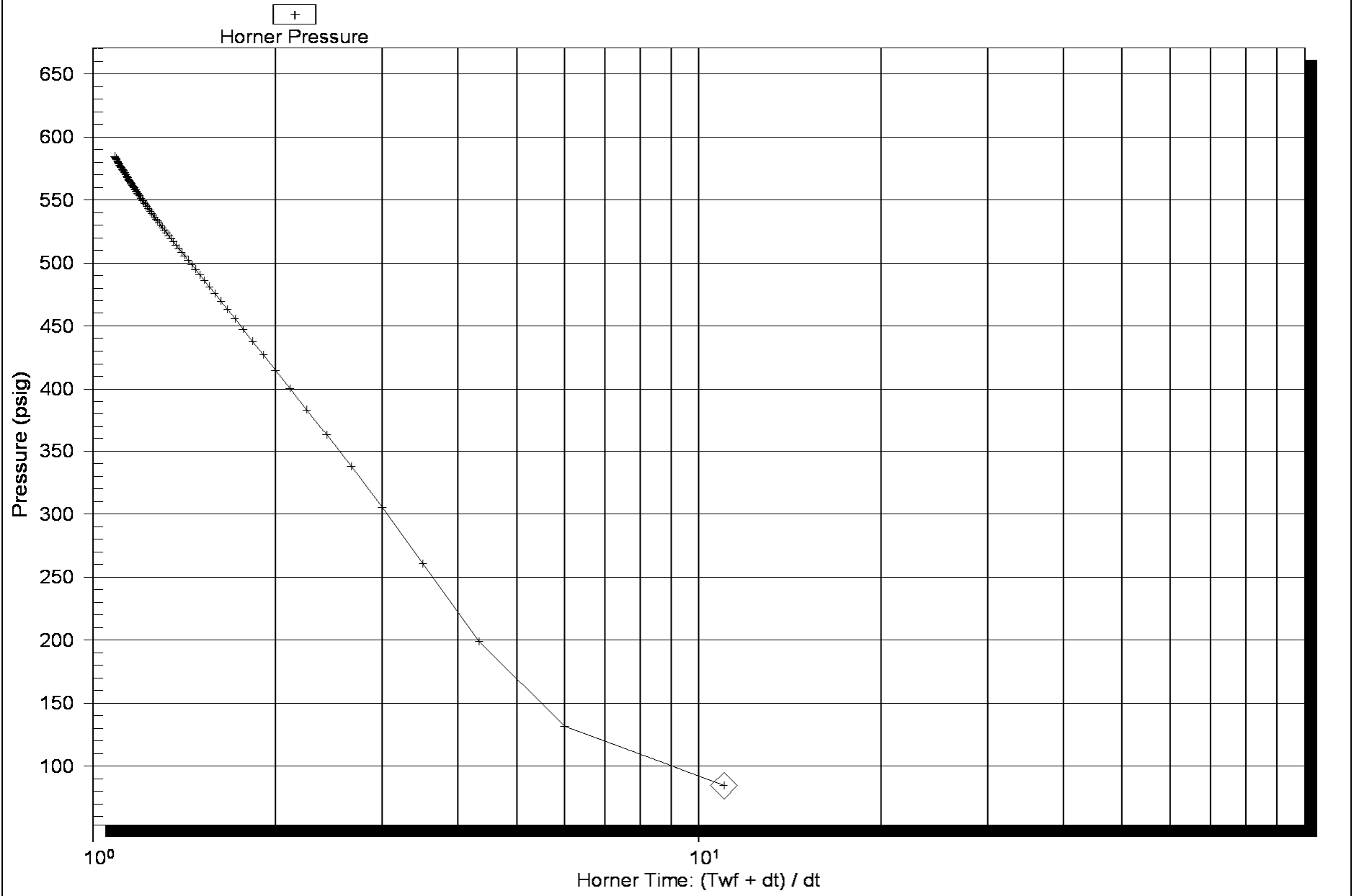
100 MI of oil scum 3900 MI of water







Horner Plot



Horner Plot



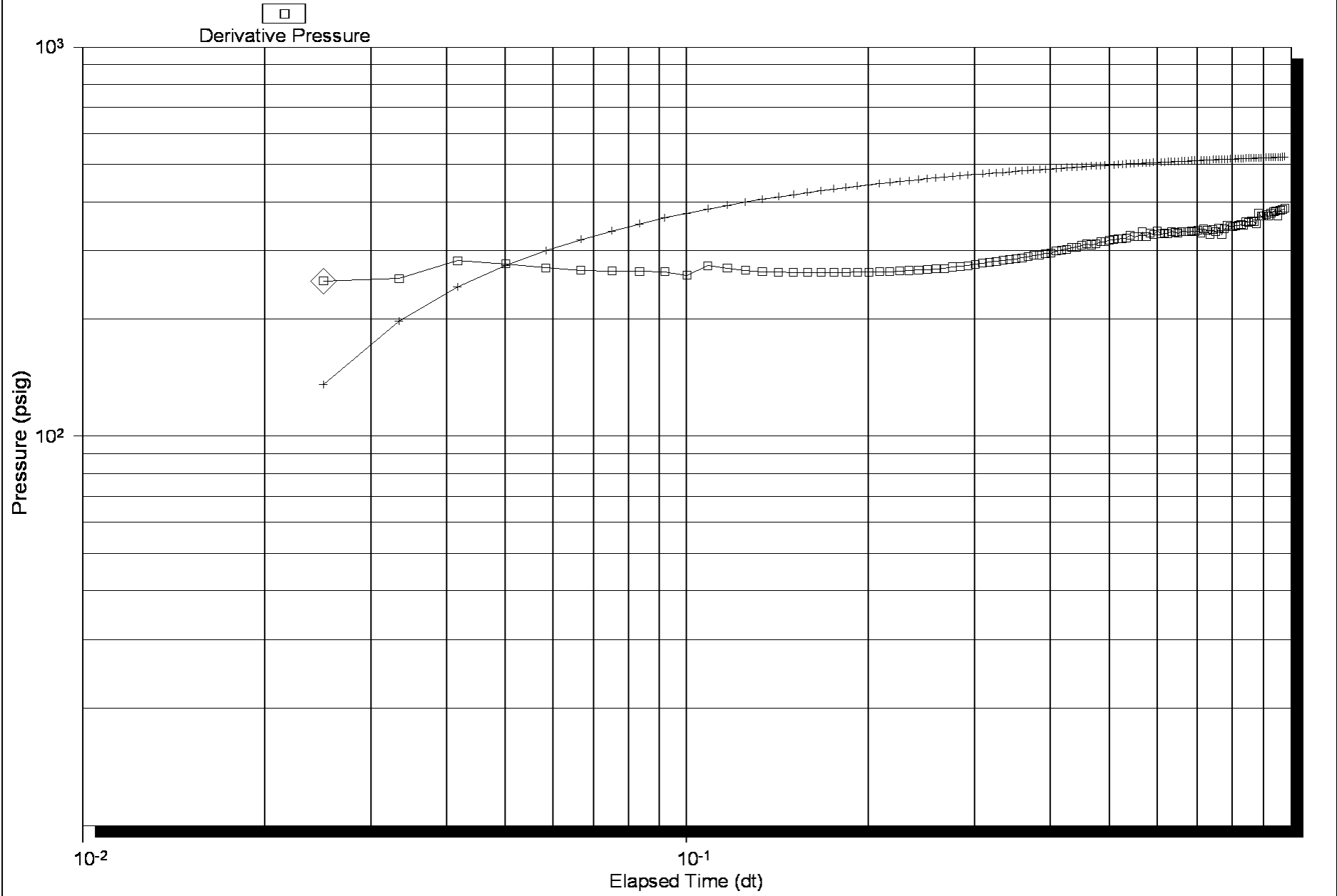
Serial Number: 8321 (Inside)

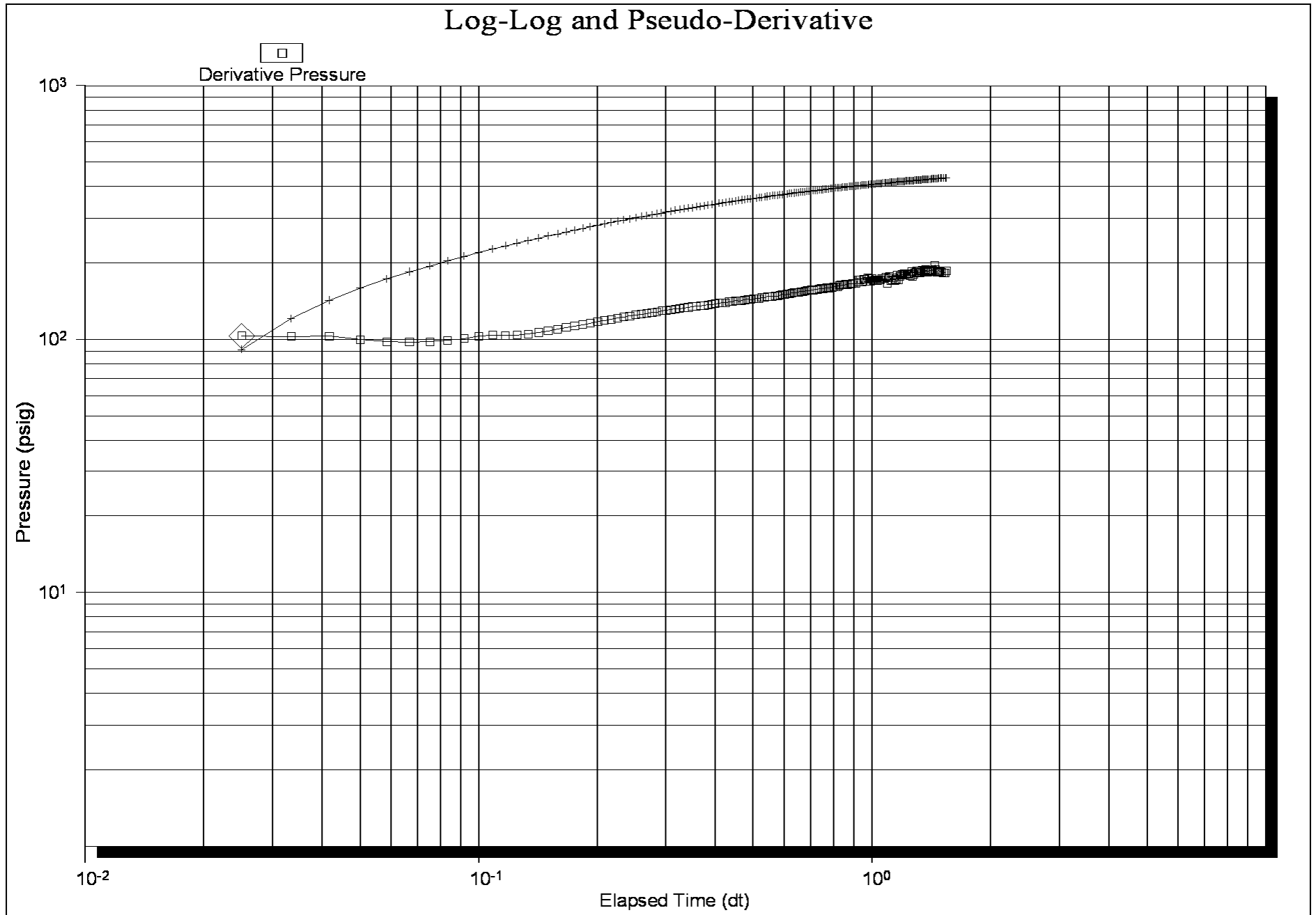
P* :

Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative







DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr & Associates**

1515 Wynkoop St
Suite 700 Denver Co 80202

ATTN:

Tuzicka-Dewald 1-34

34-16s-16w-Rush

Start Date: 2011.11.15 @ 13:49:01

End Date: 2011.11.15 @ 20:55:01

Job Ticket #: 44875 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.11.17 @ 10:25:21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr & Associates

34-16s-16w-Rush

1515 Wynkoop St
Suite 700 Denver Co 80202

Tuzicka-Dewald 1-34

ATTN:

Job Ticket: 44875

DST#: 2

Test Start: 2011.11.15 @ 13:49:01

GENERAL INFORMATION:

Formation: **Lansing F&G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:41:31

Time Test Ended: 20:55:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: **3314.00 ft (KB) To 3343.00 ft (KB) (TVD)**

Reference Elevations: 1977.00 ft (KB)

Total Depth: 3343.00 ft (KB) (TVD)

1969.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8321

Inside

Press @ Run Depth: 47.51 psig @ 3315.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.15 End Date: 2011.11.15

Last Calib.: 2011.11.15

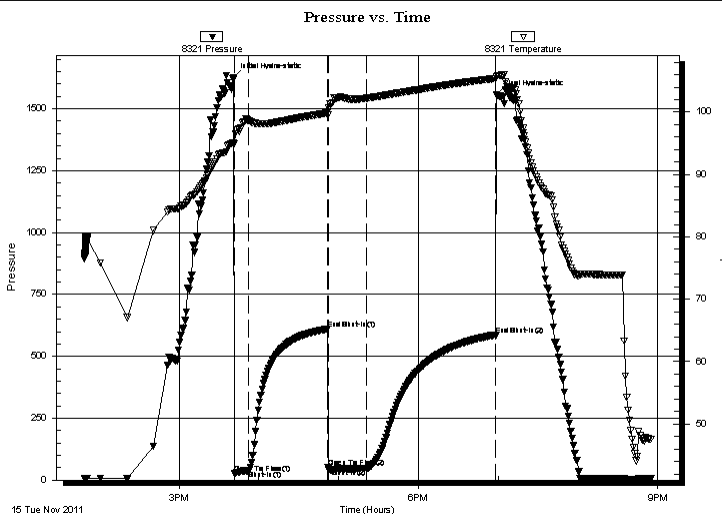
Start Time: 13:49:02 End Time: 20:55:01

Time On Btm: 2011.11.15 @ 15:41:01

Time Off Btm: 2011.11.15 @ 18:58:31

TEST COMMENT: IFP-10-Min-Weak blow built to 2 in
ISI-60-Min-Weak surface blow back
FFP-30-Min-Weak blow built to 3 1/8 in
FSI-90-Min-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1624.53	95.09	Initial Hydro-static
1	27.01	94.93	Open To Flow (1)
11	38.22	98.59	Shut-In(1)
71	609.81	99.85	End Shut-In(1)
71	50.30	99.62	Open To Flow (2)
100	47.51	102.21	Shut-In(2)
197	584.14	105.39	End Shut-In(2)
198	1557.28	105.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	WM with oil spots 10%W90%M	0.10

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr & Associates

34-16s-16w-Rush

1515 Wynkoop St
Suite 700 Denver Co 80202

Tuzicka-Dewald 1-34

Job Ticket: 44875

DST#: 2

ATTN:

Test Start: 2011.11.15 @ 13:49:01

Tool Information

Drill Pipe:	Length: 3283.00 ft	Diameter: 3.80 inches	Volume: 46.05 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 46.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3314.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Recorder	0.00	8679	Fluid	3279.00	
Stubb	5.00			3284.00	
Shut In Tool	5.00			3289.00	
Sampler	3.00			3292.00	
Hydraulic tool	5.00			3297.00	
Jars	5.00			3302.00	
Safety Joint	3.00			3305.00	
Packer	4.00			3309.00	35.00 Bottom Of Top Packer
Packer	5.00			3314.00	
Stubb	1.00			3315.00	
Recorder	0.00	8321	Inside	3315.00	
Recorder	0.00	8737	Outside	3315.00	
Perforations	25.00			3340.00	
Bullnose	3.00			3343.00	29.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr & Associates

34-16s-16w-Rush

1515 Wynkoop St
Suite 700 Denver Co 80202

Tuzicka-Dewald 1-34

Job Ticket: 44875

DST#: 2

ATTN:

Test Start: 2011.11.15 @ 13:49:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	WM w ith oil spots 10%W90%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

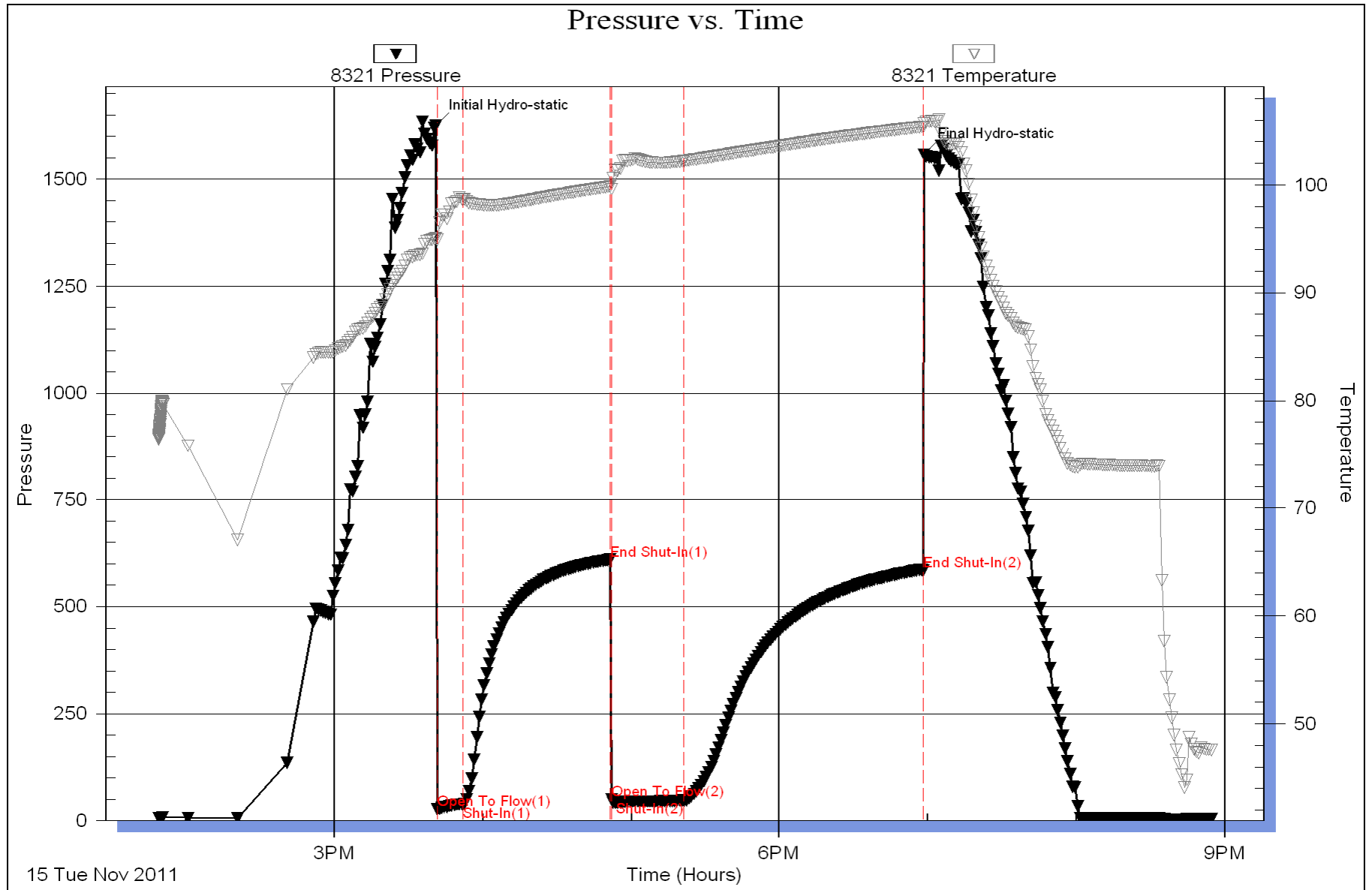
Num Gas Bombs: 0

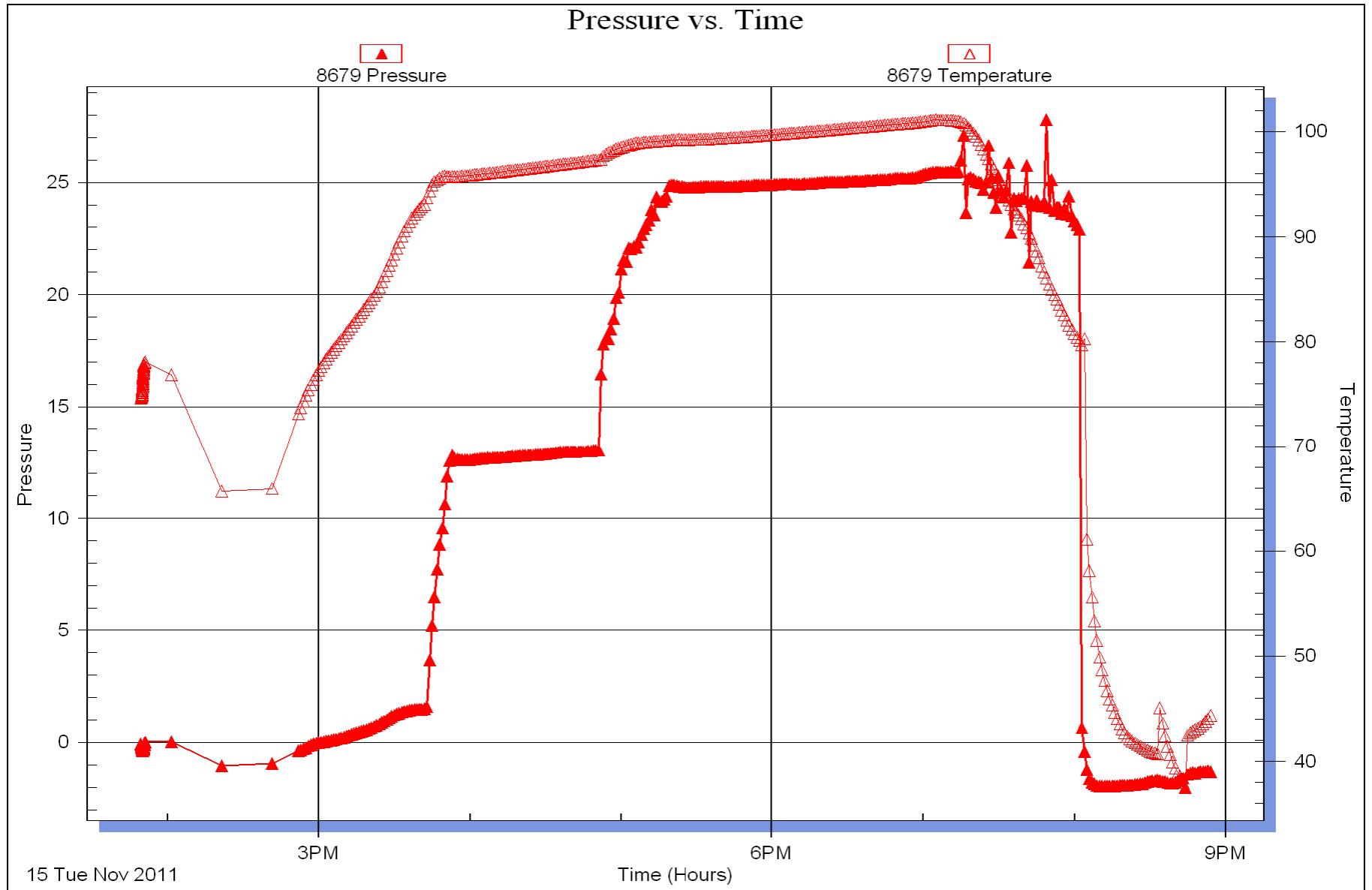
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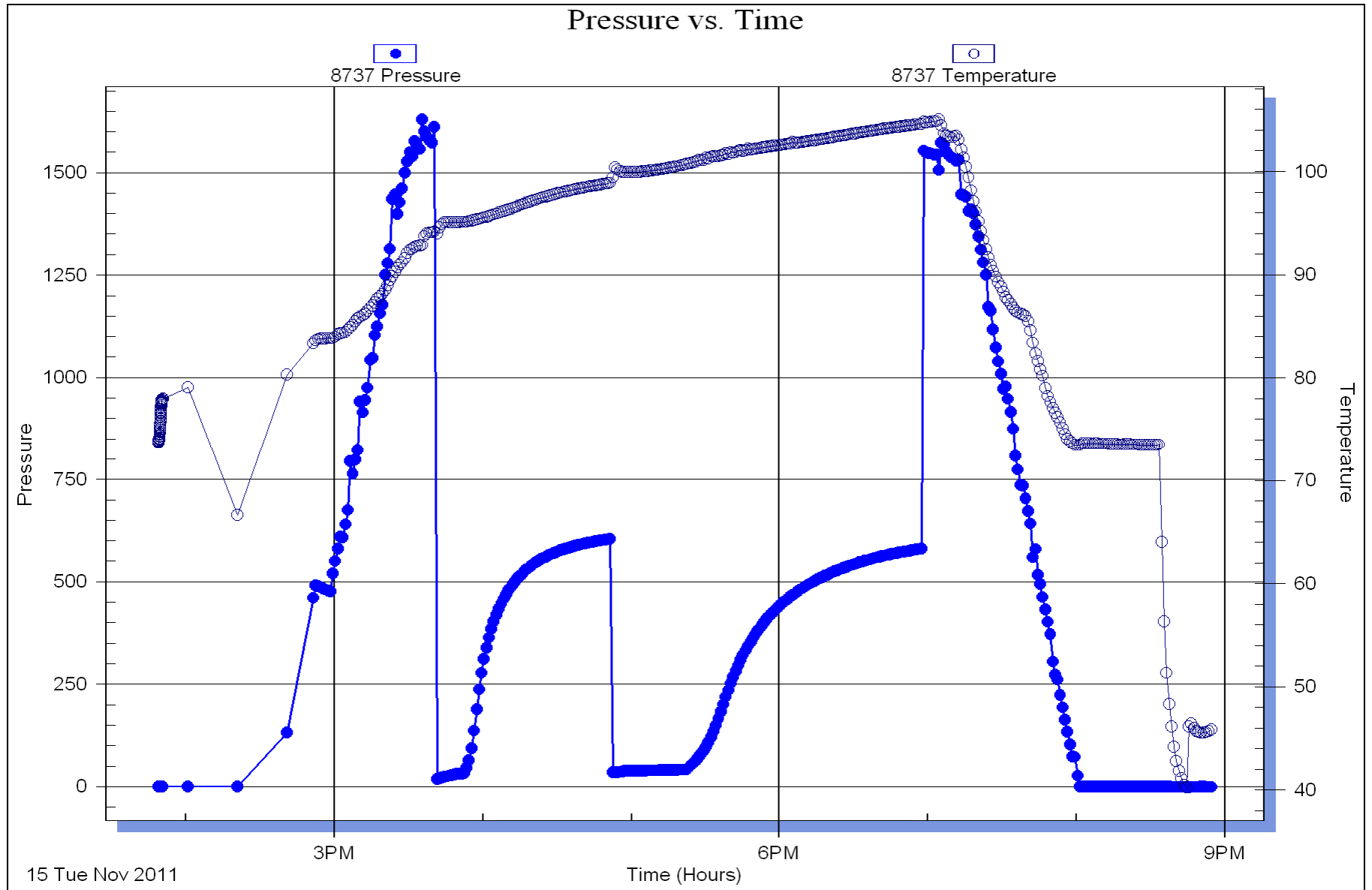
Laboratory Name:

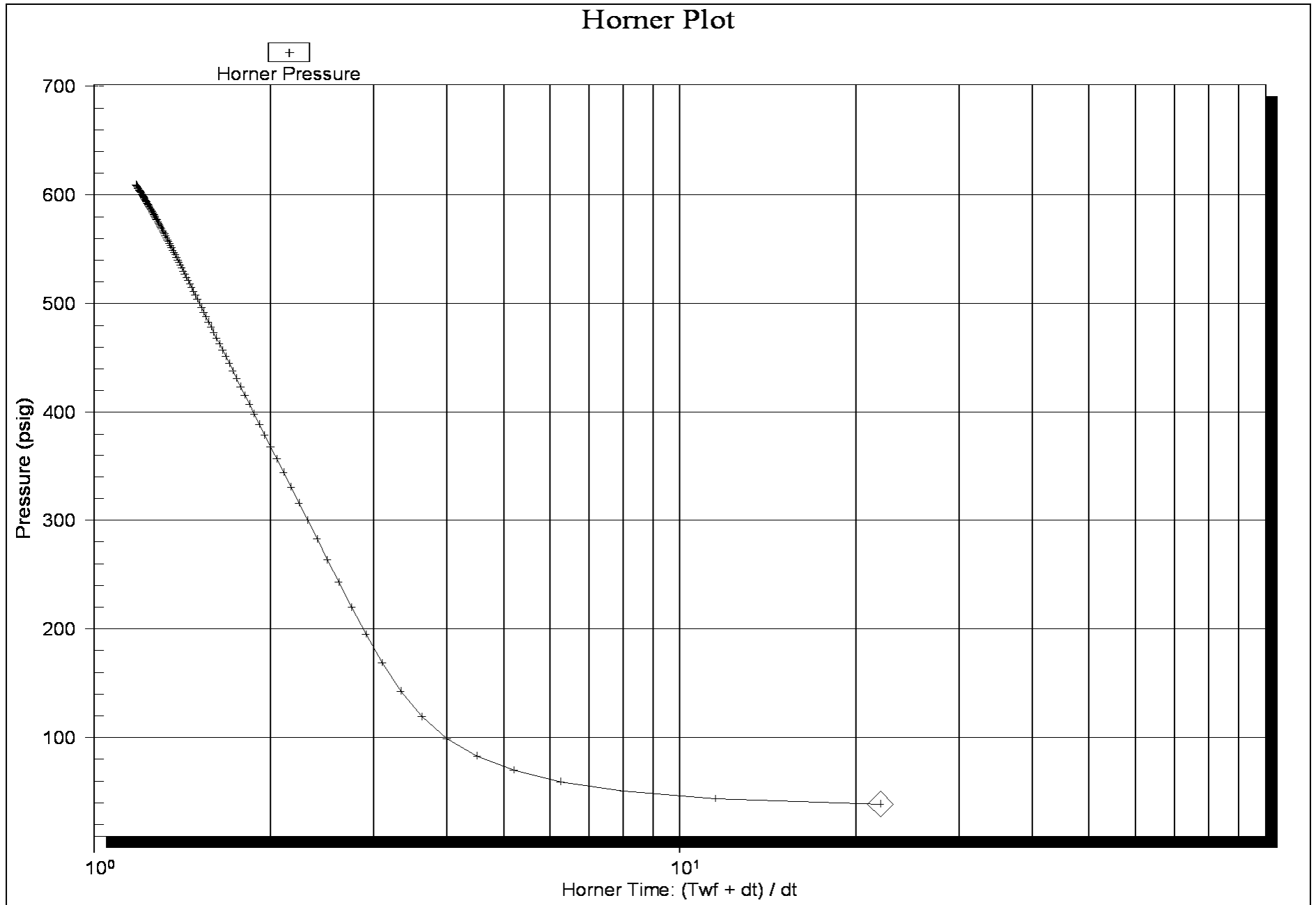
Laboratory Location:

Recovery Comments: 3500 Ml Of total fluid 280 PSI
1500 Ml of Water 2000 Ml of mud Oil spots
3-MW w ith oil spots

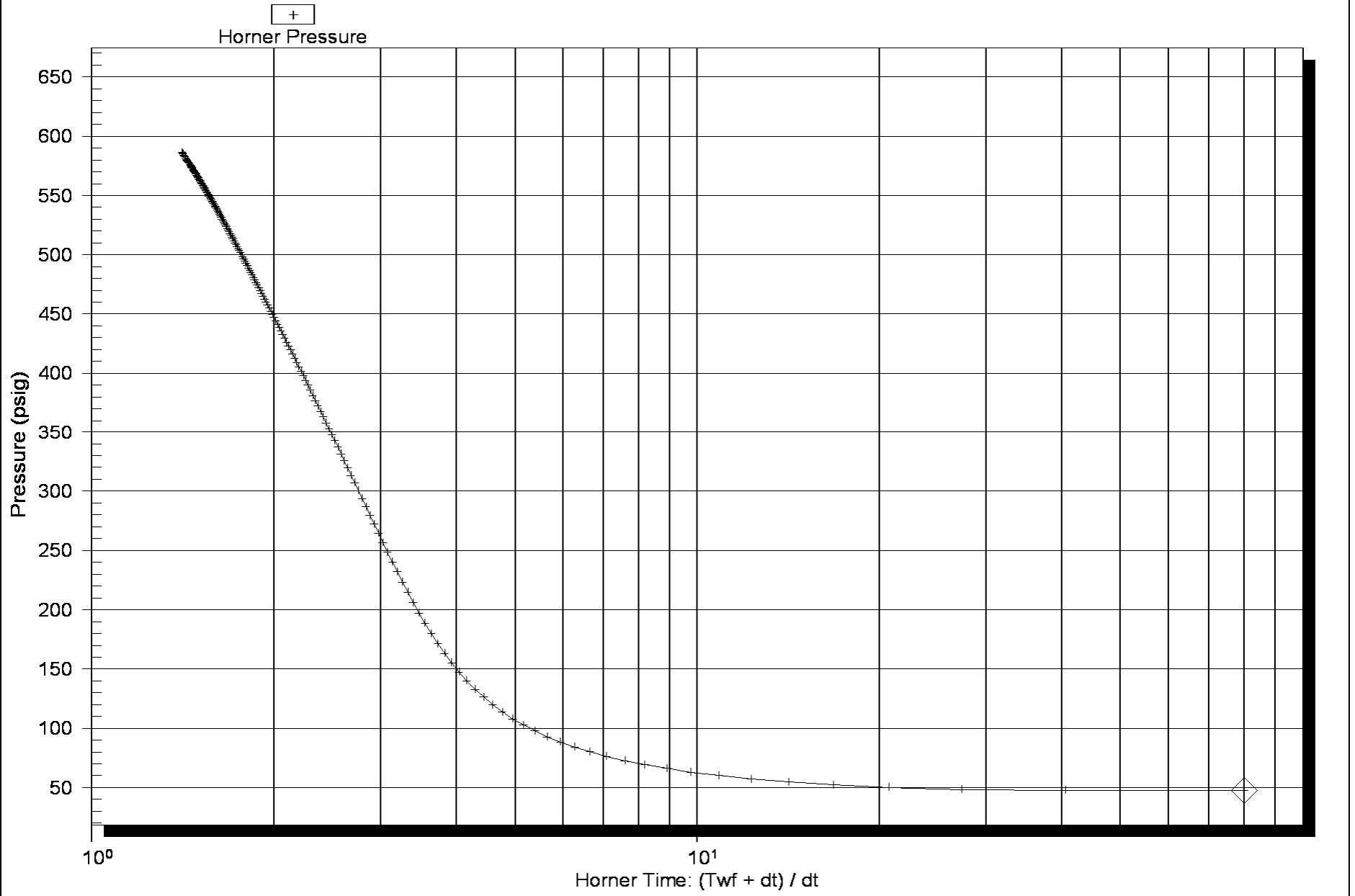


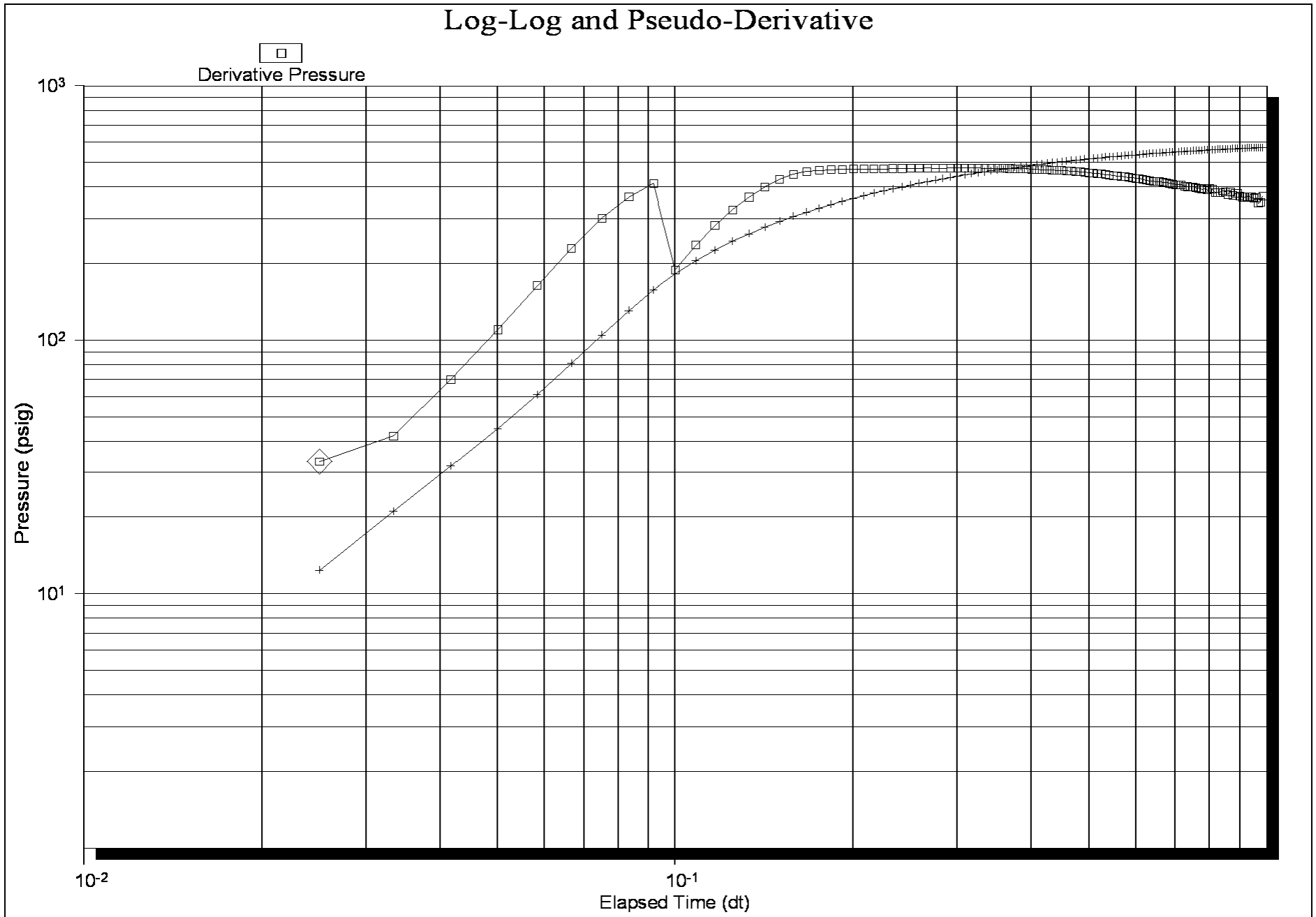


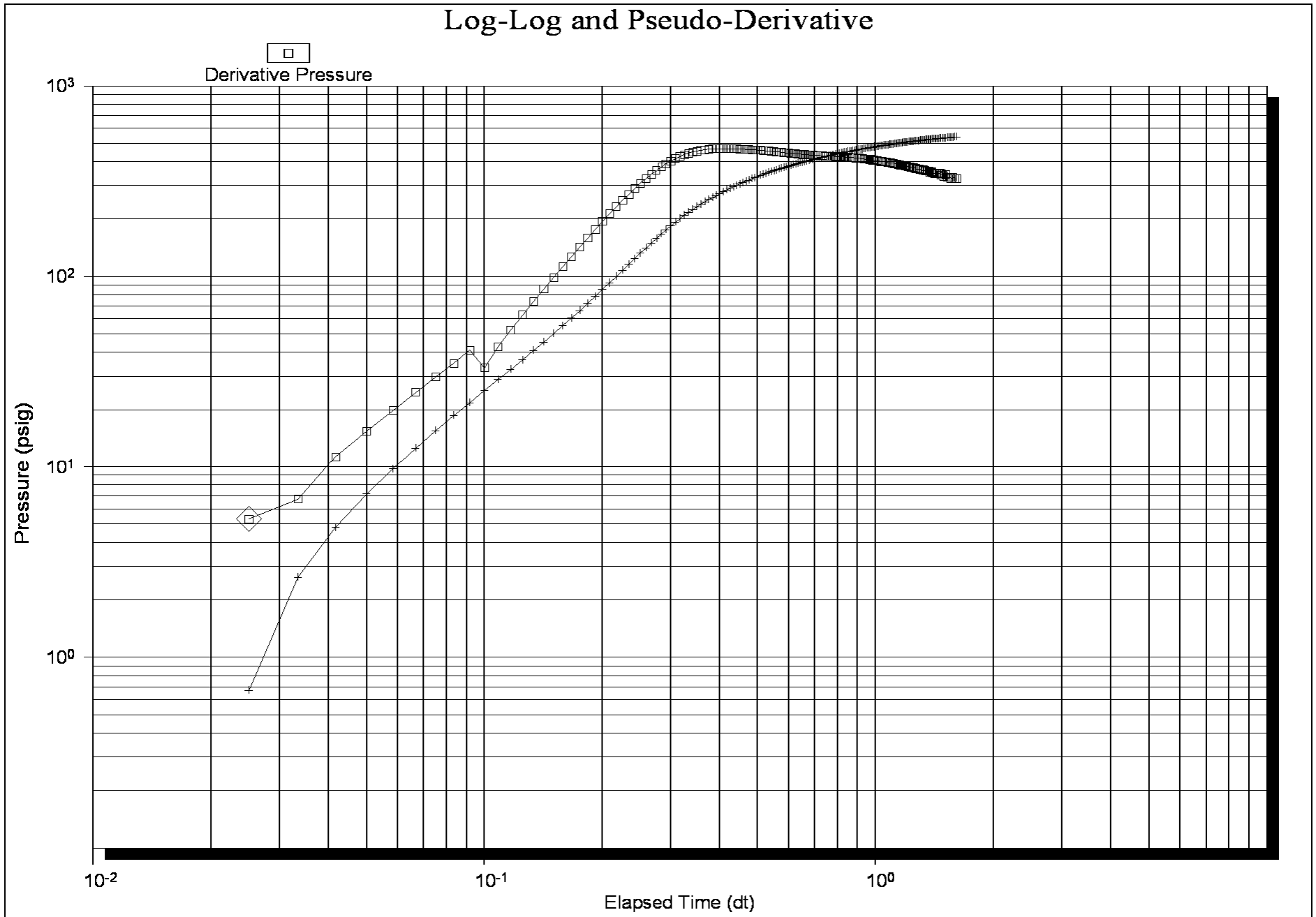




Horner Plot









DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr & Associates**

1515 Wynkoop St
Suite 700 Denver Co 80202

ATTN:

Tuzicka-Dewald 1-34

34-16s-16w-Rush

Start Date: 2011.11.16 @ 22:35:33

End Date: 2011.11.17 @ 05:38:03

Job Ticket #: 46226 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.11.17 @ 10:22:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr & Associates
 1515 Wynkoop St
 Suite 700 Denver Co 80202
 ATTN:

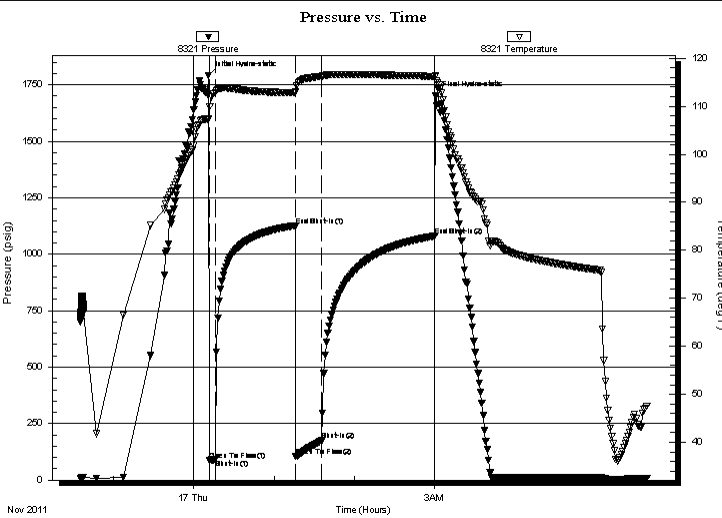
34-16s-16w-Rush
Tuzicka-Dewald 1-34
 Job Ticket: 46226 **DST#: 3**
 Test Start: 2011.11.16 @ 22:35:33

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 00:12:03 Tester: Jeff Brown
 Time Test Ended: 05:38:03 Unit No: 44
 Interval: **3535.00 ft (KB) To 3547.00 ft (KB) (TVD)** Reference Elevations: 1977.00 ft (KB)
 Total Depth: 3634.00 ft (KB) (TVD) 1969.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8321 Inside
 Press @ Run Depth: 174.26 psig @ 3538.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.11.16 End Date: 2011.11.17 Last Calib.: 2011.11.17
 Start Time: 22:35:34 End Time: 05:38:03 Time On Btm: 2011.11.17 @ 00:11:03
 Time Off Btm: 2011.11.17 @ 03:00:33

TEST COMMENT: IFP-5-min-Strong blow BOB in 1 1/4 min
 ISI-60-min-Weak blow back built to 1 1/2 in
 FFP-20-min-Strong blow BOB in 1 1/2 min
 FSI-70-min-Fair blow back built to 7 in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1792.33	107.35	Initial Hydro-static
1	88.30	109.98	Open To Flow (1)
5	91.42	112.88	Shut-In(1)
65	1124.02	112.85	End Shut-In(1)
65	105.91	113.04	Open To Flow (2)
85	174.26	116.21	Shut-In(2)
169	1081.79	116.20	End Shut-In(2)
170	1702.97	116.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCGO10%G30%M60%O	1.48
310.00	Gassy Oil 10%G90%O	4.35

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr & Associates
 1515 Wynkoop St
 Suite 700 Denver Co 80202
 ATTN:

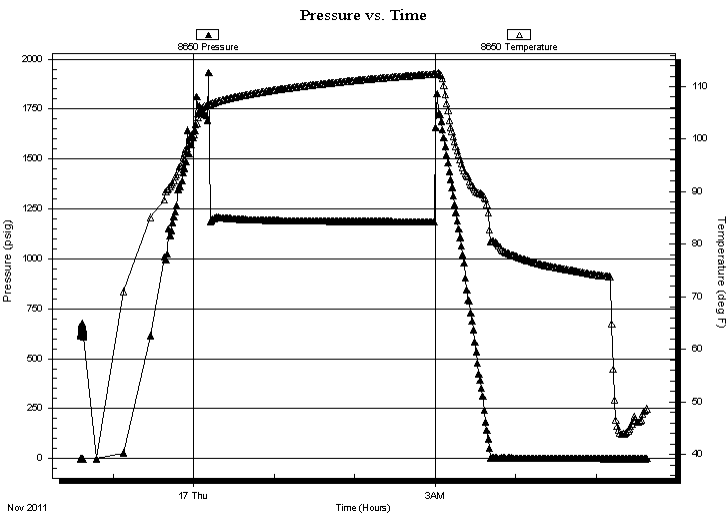
34-16s-16w-Rush
Tuzicka-Dewald 1-34
 Job Ticket: 46226 **DST#: 3**
 Test Start: 2011.11.16 @ 22:35:33

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:12:03
 Time Test Ended: 05:38:03
 Interval: **3535.00 ft (KB) To 3547.00 ft (KB) (TVD)**
 Total Depth: 3634.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 1977.00 ft (KB)
 1969.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8650 Below (Straddle)
 Press @ Run Depth: psig @ 3568.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.11.16 End Date: 2011.11.17 Last Calib.: 2011.11.17
 Start Time: 22:35:53 End Time: 05:37:22 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP-5-min-Strong blow BOB in 1 1/4 min
 ISI-60-min-Weak blow back built to 1 1/2 in
 FFP-20-min-Strong blow BOB in 1 1/2 min
 FSI-70-min-Fair blow back built to 7 in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCGO10%G30%M60%O	1.48
310.00	Gassy Oil 10%G90%O	4.35

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr & Associates

34-16s-16w-Rush

1515 Wynkoop St
Suite 700 Denver Co 80202

Tuzicka-Dewald 1-34

Job Ticket: 46226

DST#: 3

ATTN:

Test Start: 2011.11.16 @ 22:35:33

Tool Information

Drill Pipe:	Length: 3503.00 ft	Diameter: 3.80 inches	Volume: 49.14 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3535.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	3547.00 ft			
Interval between Packers:	12.00 ft			
Tool Length:	134.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Recorder	0.00	8679	Fluid	3500.00		
Stubb	5.00			3505.00		
Shut In Tool	5.00			3510.00		
Sampler	3.00			3513.00		
Hydraulic tool	5.00			3518.00		
Jars	5.00			3523.00		
Safety Joint	3.00			3526.00		
Packer	4.00			3530.00	35.00	Bottom Of Top Packer
Packer	5.00			3535.00		
Stubb	1.00			3536.00		
Perforations	2.00			3538.00		
Recorder	0.00	8321	Inside	3538.00		
Recorder	0.00	8737	Outside	3538.00		
Perforations	5.00			3543.00		
Blank Off Sub	1.00			3544.00		
Stubb	3.00			3547.00	12.00	Tool Interval
Packer	1.00			3548.00		
Stubb	1.00			3549.00		
Perforations	18.00			3567.00		
Change Over Sub	1.00			3568.00		
Recorder	0.00	8650	Below	3568.00		
Drill Pipe	62.00			3630.00		
Change Over Sub	1.00			3631.00		
Bullnose	3.00			3634.00	87.00	Bottom Packers & Anchor
Total Tool Length:	134.00					



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr & Associates

34-16s-16w-Rush

1515 Wynkoop St
Suite 700 Denver Co 80202

Tuzicka-Dewald 1-34

Job Ticket: 46226

DST#: 3

ATTN:

Test Start: 2011.11.16 @ 22:35:33

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	MCGO10%G30%M60%O	1.475
310.00	Gassy Oil 10%G90%O	4.348

Total Length: 434.00 ft Total Volume: 5.823 bbl

Num Fluid Samples: 0

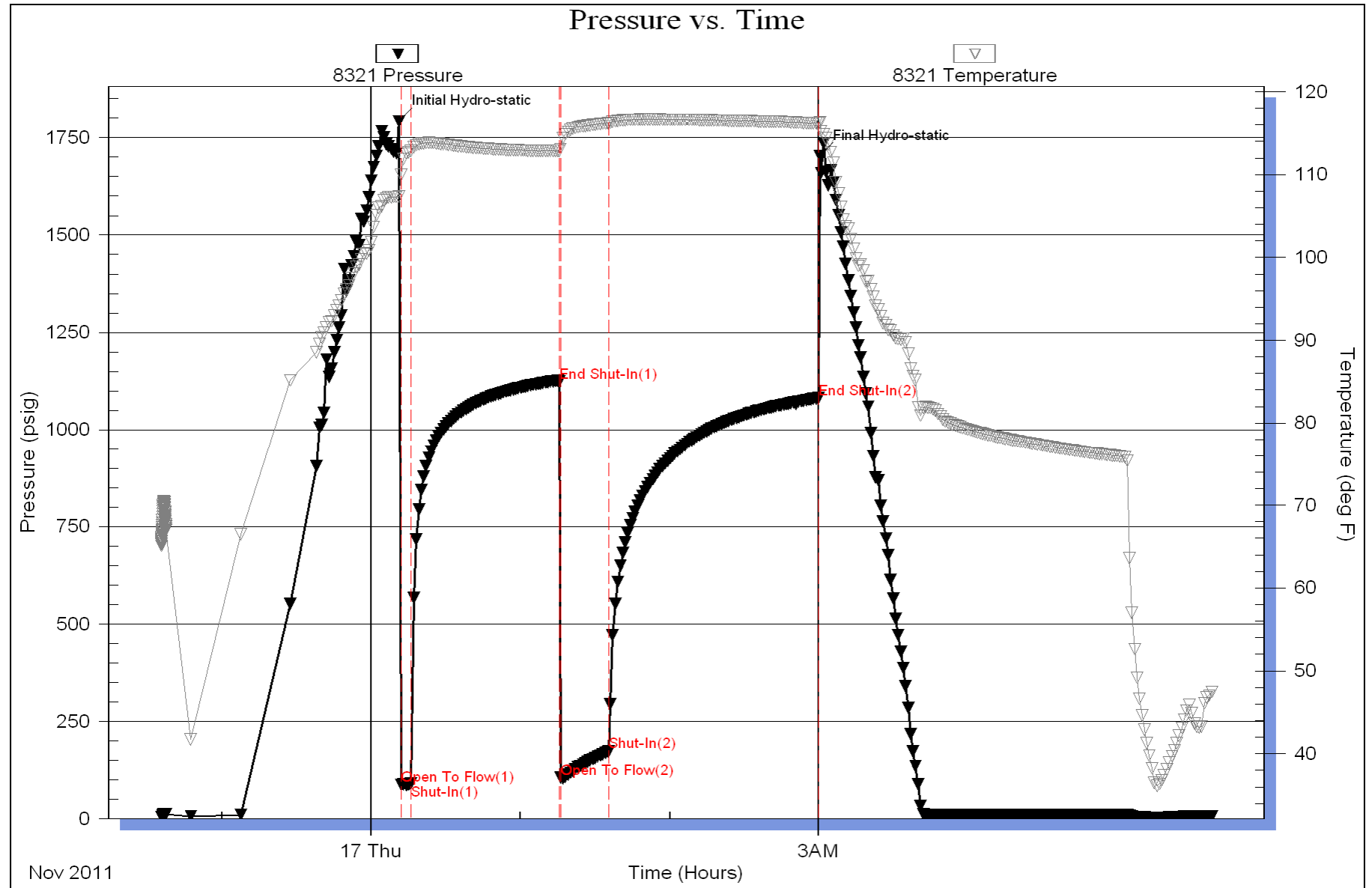
Num Gas Bombs: 0

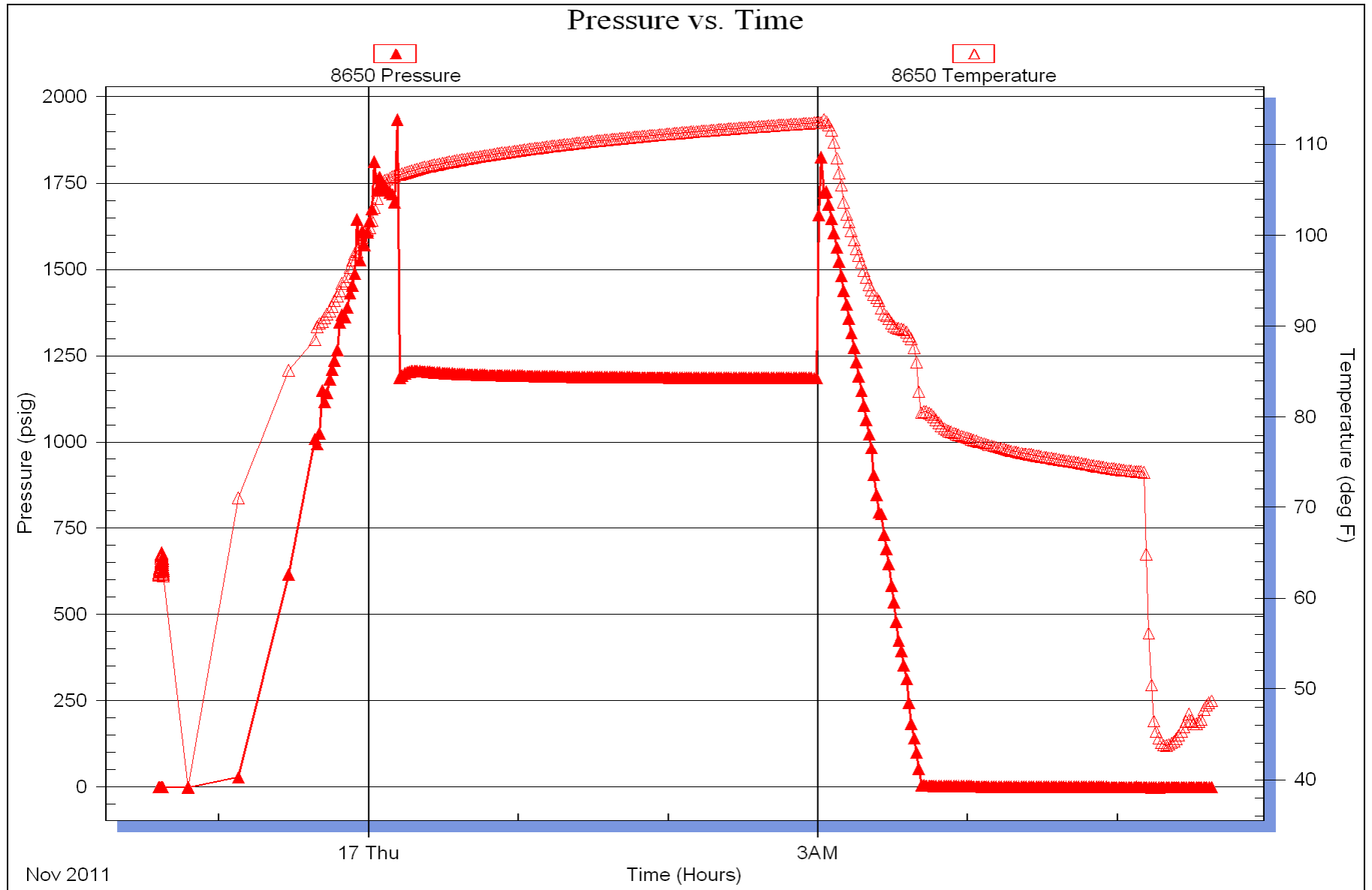
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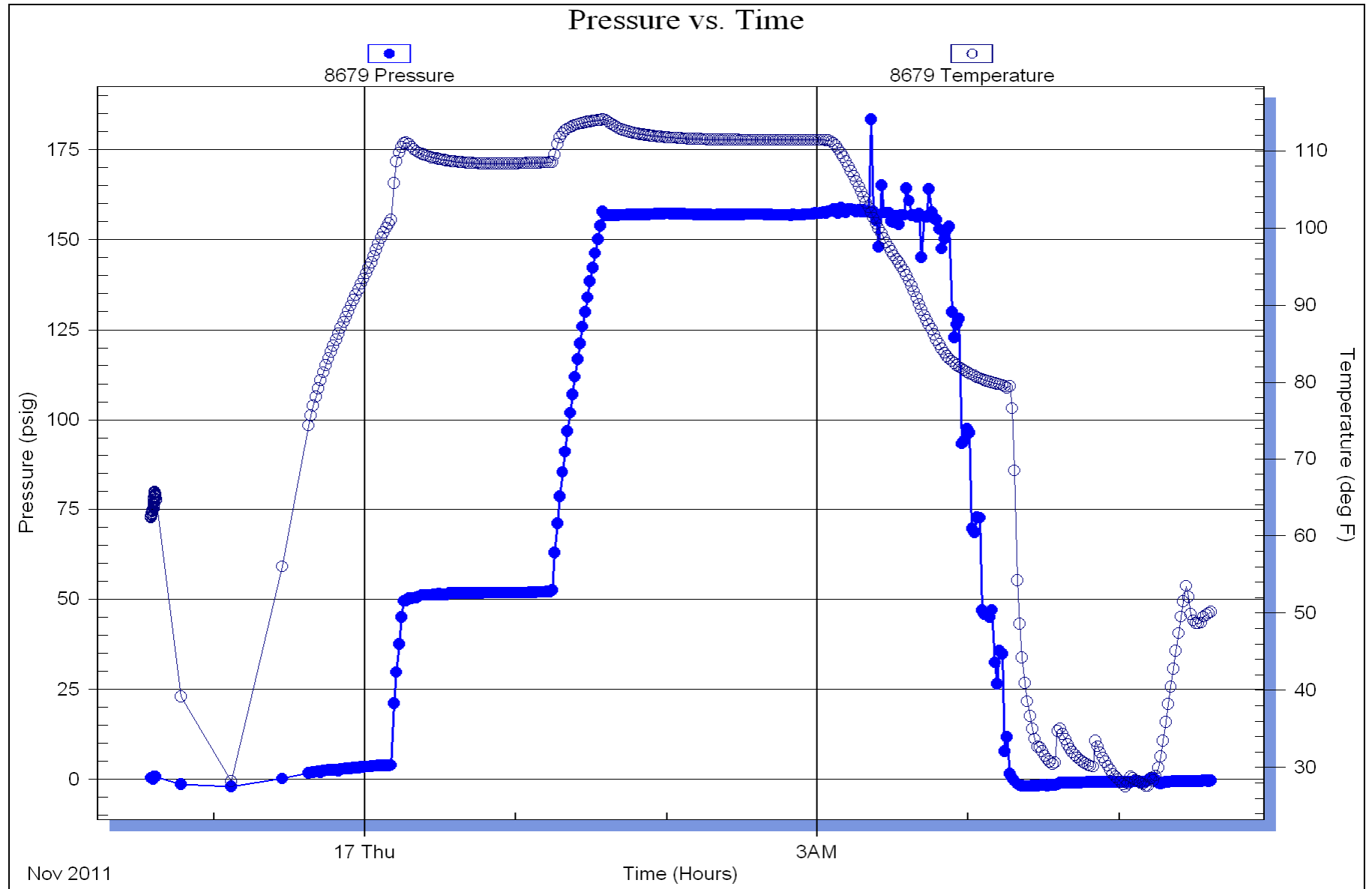
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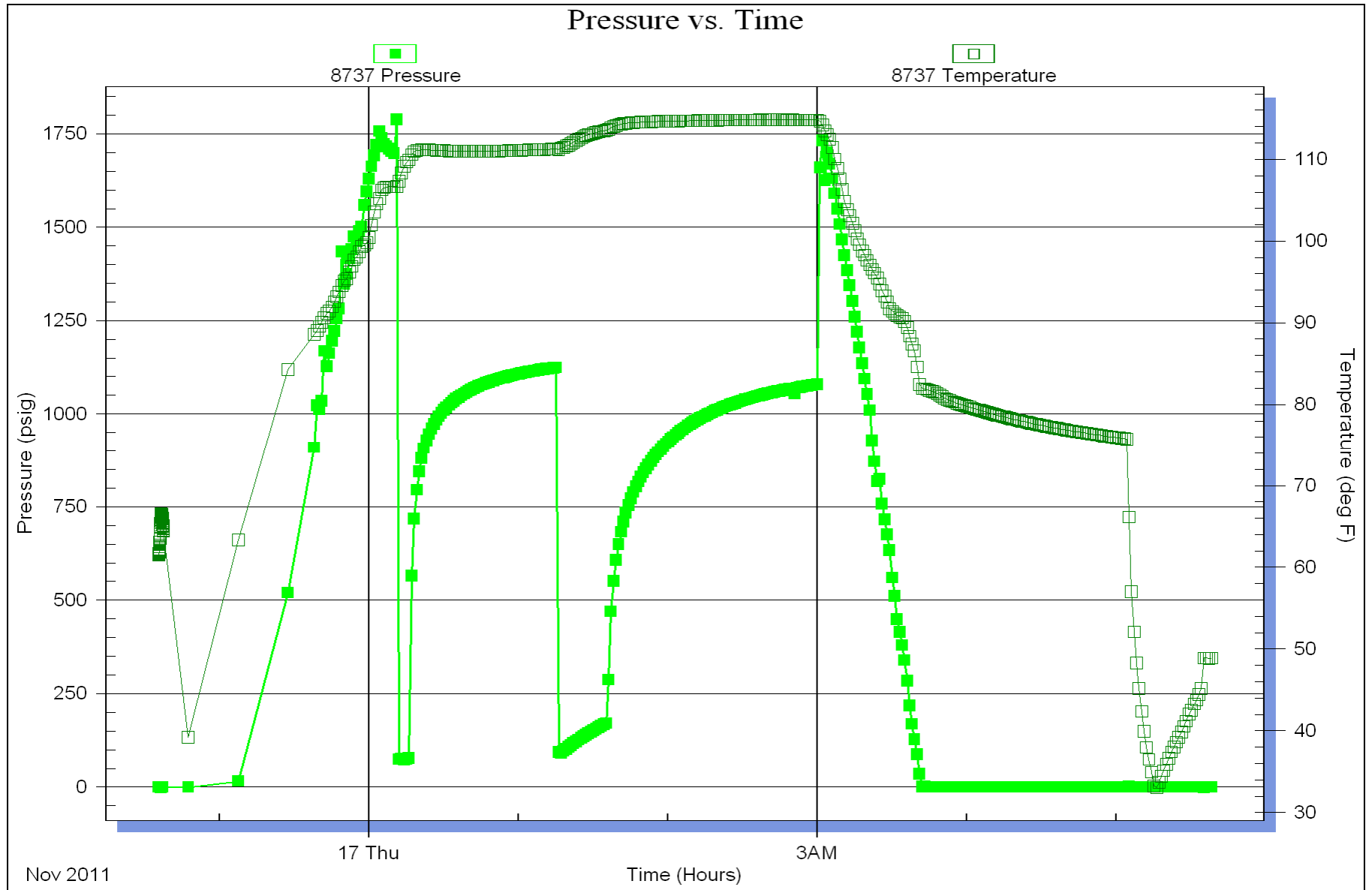
Laboratory Location:

Recovery Comments: 4000 ML of Oil 200 PSI

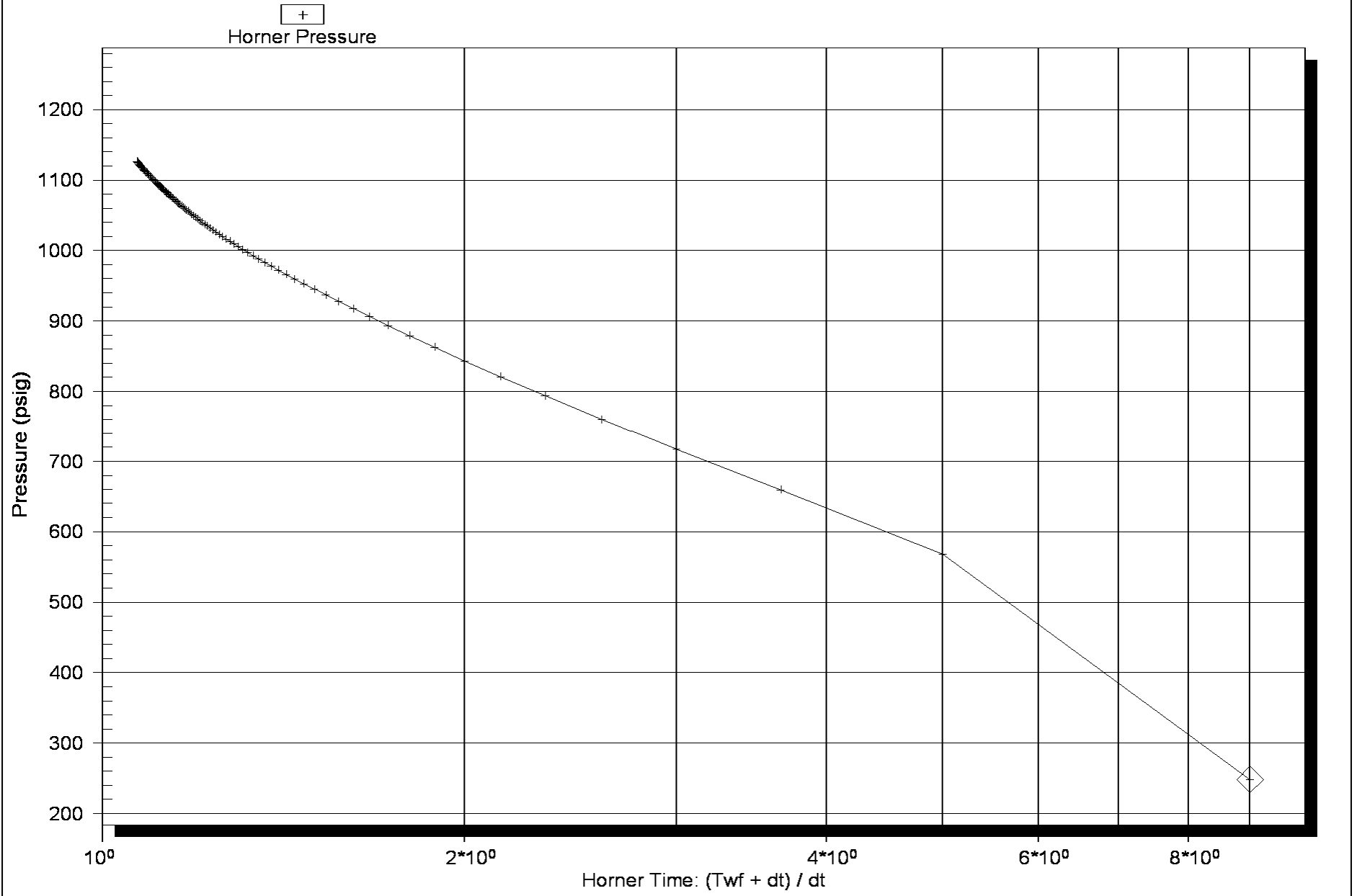






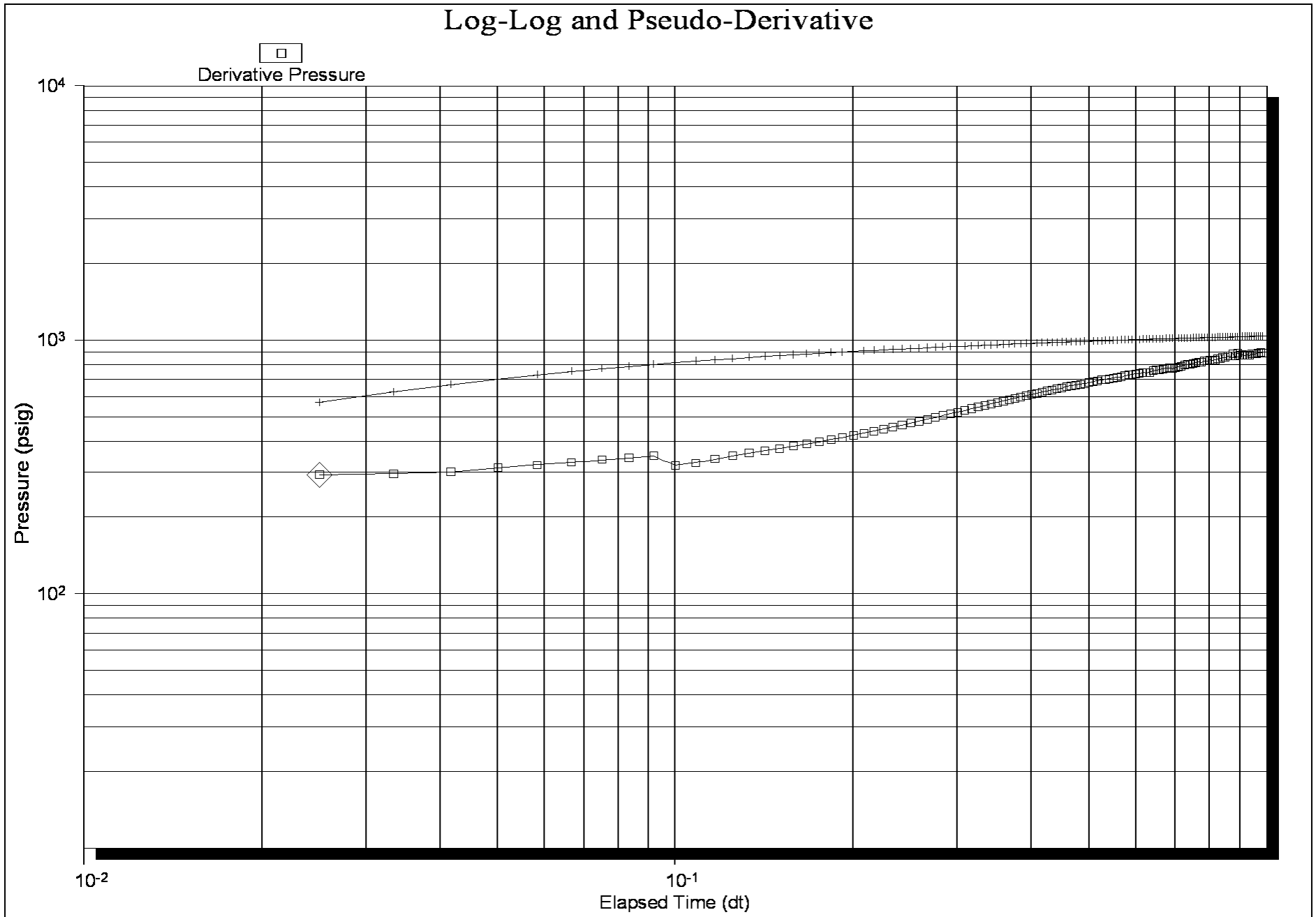


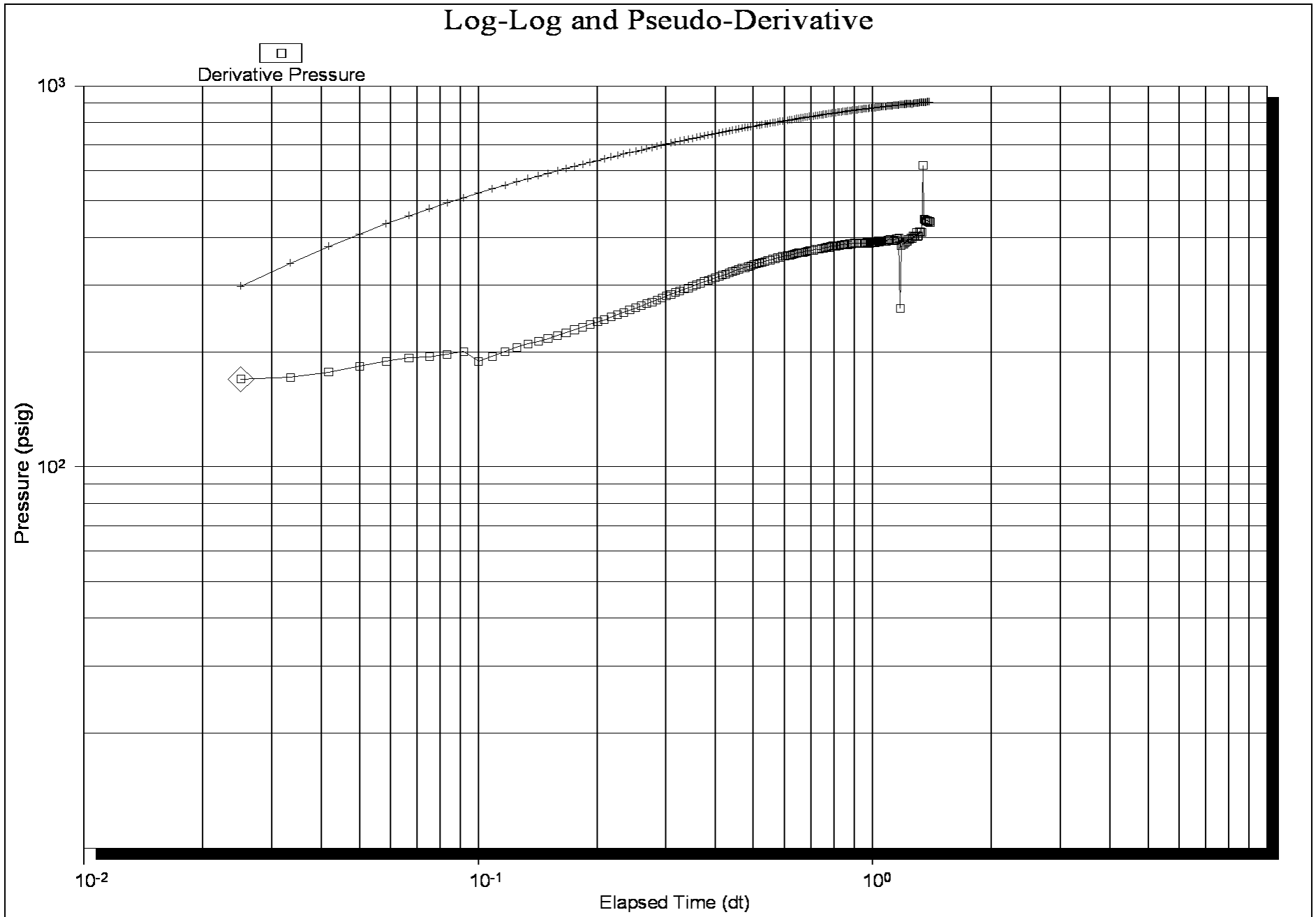
Horner Plot



Horner Plot









Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: TUZICKA-DEWALD ET AL 1-34
Location: Sec. 34 156S 16W, Rush Co, Kansas
License Number: 15-165-21952
Spud Date: 11/10/2011
Surface Coordinates:
Region: Wildcat
Drilling Completed: 11/16/2011

Bottom Hole
Coordinates:
Ground Elevation (ft): 1969' K.B. Elevation (ft): 1977'
Logged Interval (ft): 1800' To: 3630' Total Depth (ft): 3630'
Formation: Lansing, Arbuckle
Type of Drilling Fluid:

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Samuel Gary, Jr & Assoc.
Address: 1515Wynkoop,Suite 700
Denver, Co 80202
Company Geo. Clayto Camozzi

GEOLOGIST

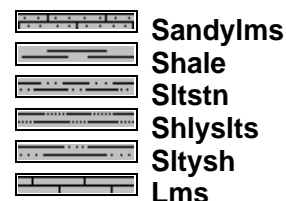
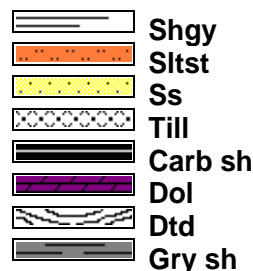
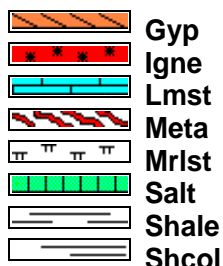
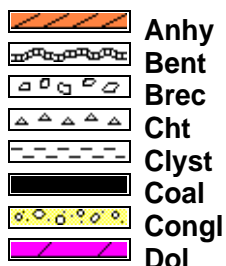
Name: JASON MARSHALL
Company: Earth Tech, OGL, Inc
Address: P.O. Box 683
Hooker, Okla. 73945
Off: 888-543-8378 Cell: 620-655-1298

DST's Report

DST #1, 3266'-3309', 5,60,30,90
IFP-WEAK BLOW BUILT TO 3 1/4", ISI-WEAK SURFACE BLOW, FF-GOOD BLOW BOB IN 8 MIN, FSI- WEAK SURFACE BLOW, IH-1650, FH-1535, FIF-78, FFF-63, SIF-73, SFF-119, ISI-585, FSI-549, TOTAL REC- 193', 7% GAS, 3% OIL, 30% WATER, 60% MUD

DST #2, 3314'-3343', 10,60,30,90
IFP-WEAK BLOW BUILT TO 2", ISI-WEAK SURFACE BLOW, FF-WEAK BLOW BUILT TO 31/8", FSI- NO BLOW BACK, IH-1625, FH-1557, FIF-27, FFF-38, SIF-50, SFF-48, ISI-610, FSI-584, TOTAL REC- 20', 10% WATER, 90% MUD

ROCK TYPES

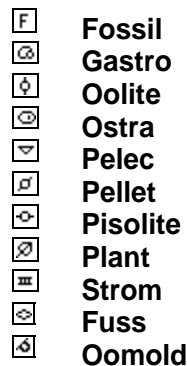
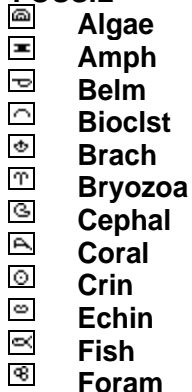


ACCESSORIES

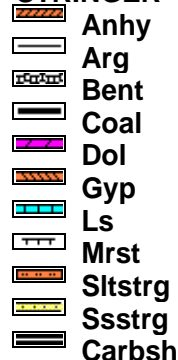
MINERAL



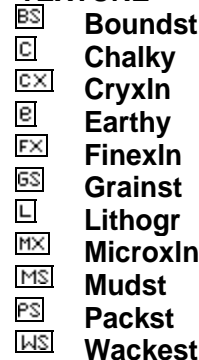
FOSSIL



STRINGER

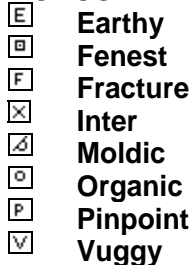


TEXTURE



OTHER SYMBOLS

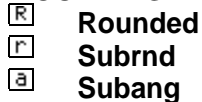
POROSITY TYPE



SORTING



ROUNDING



OIL SHOWS

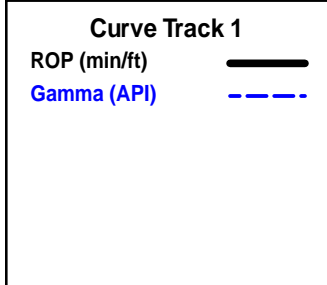


INTERVALS



EVENTS



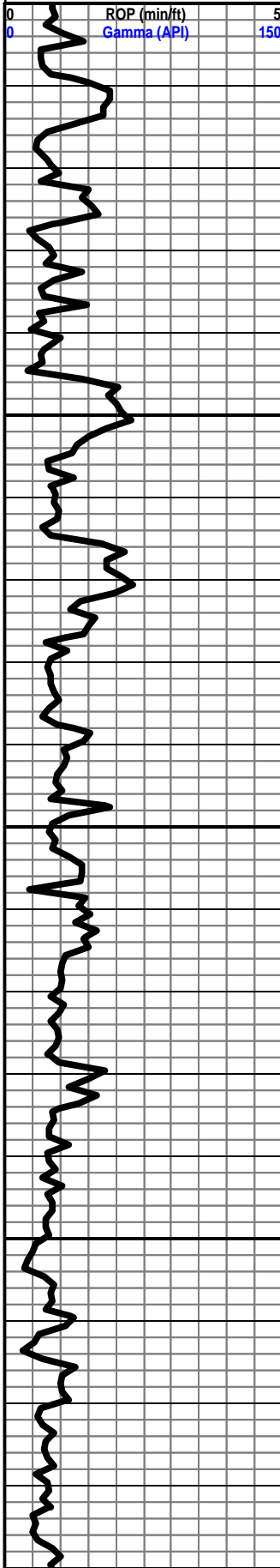
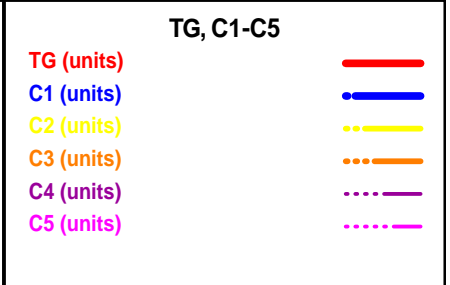


Depth

Lithology

Oil Shows

Geological Descriptions



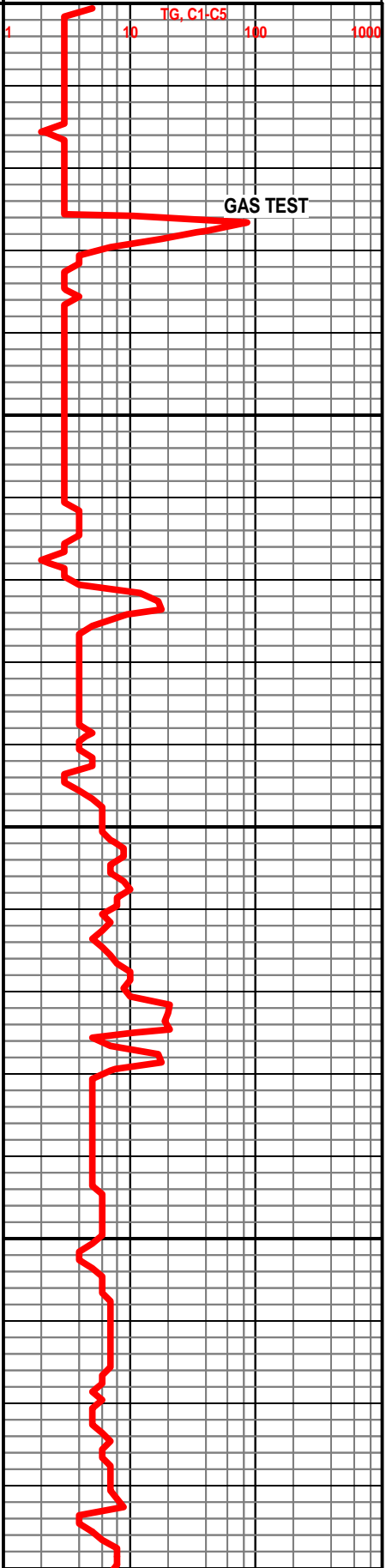
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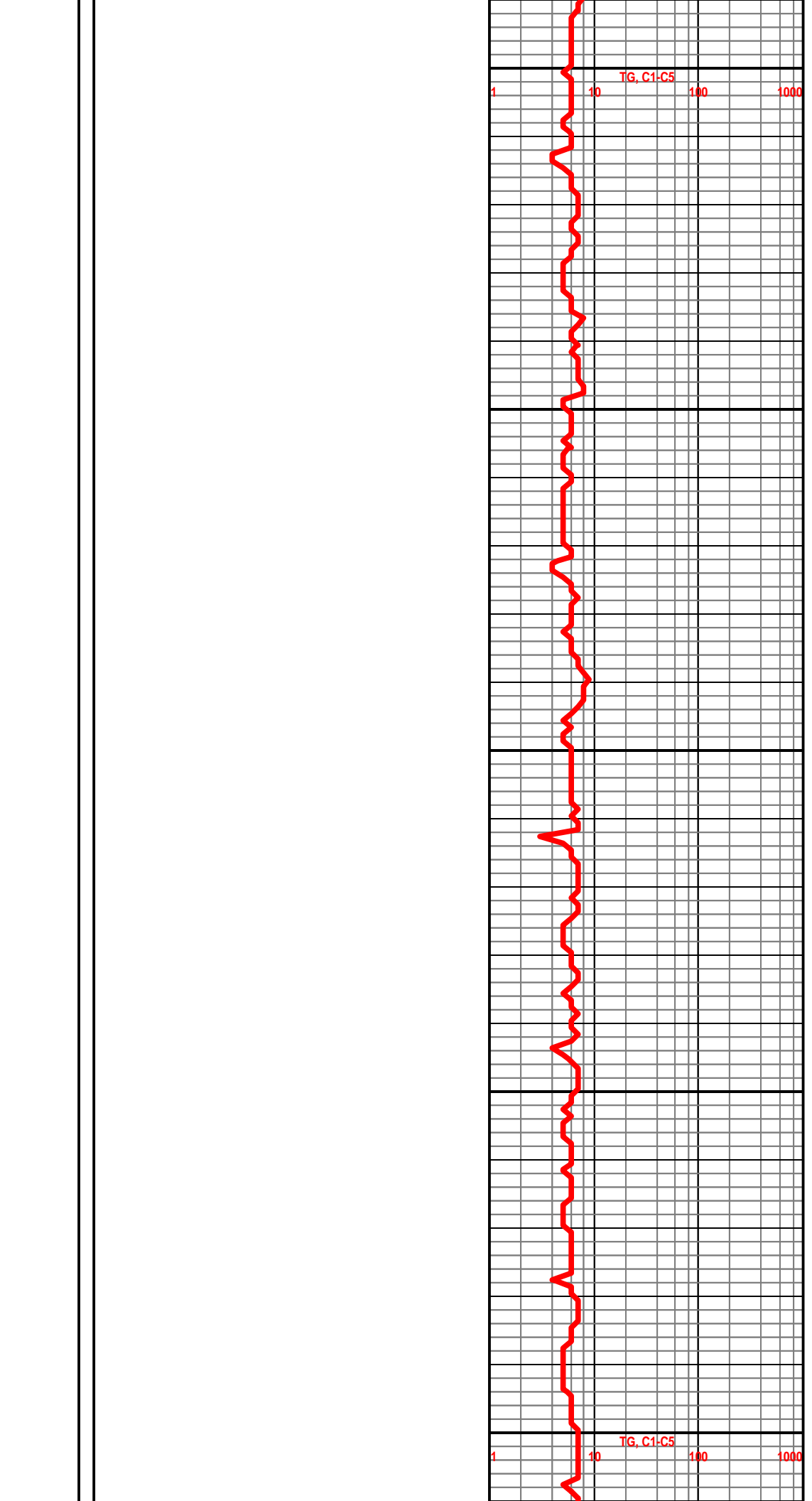
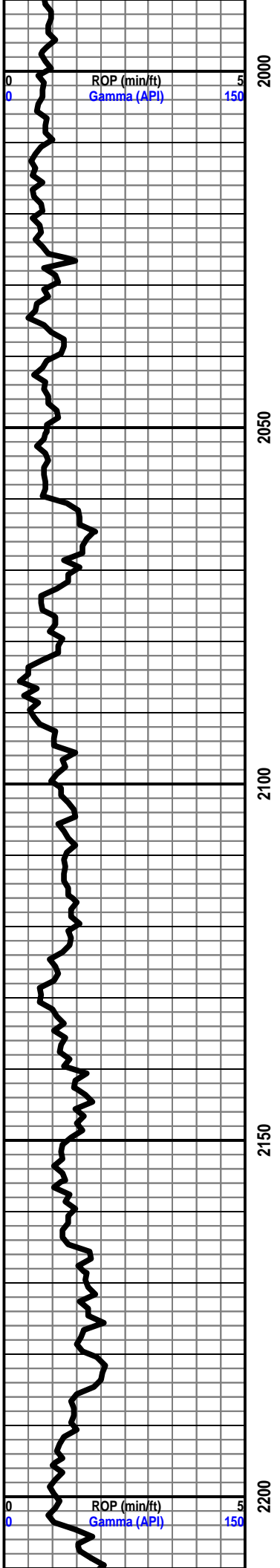
1850

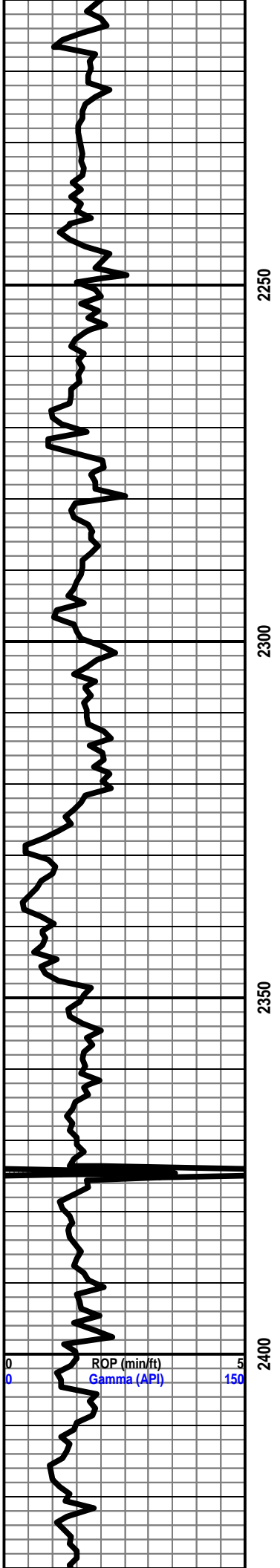
1900

1950

STARTED UNMANNED UNIT ON 11/12/2011







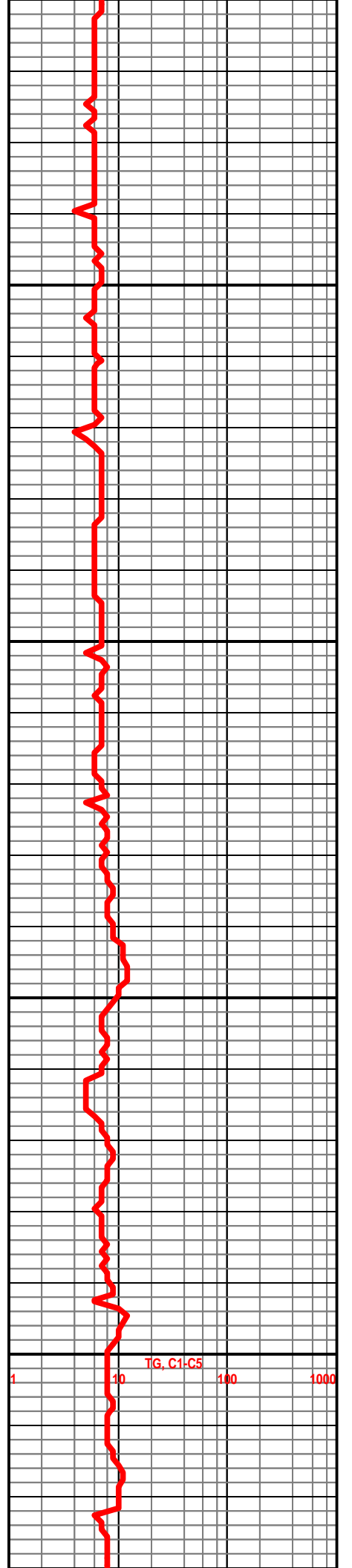
2250

2300

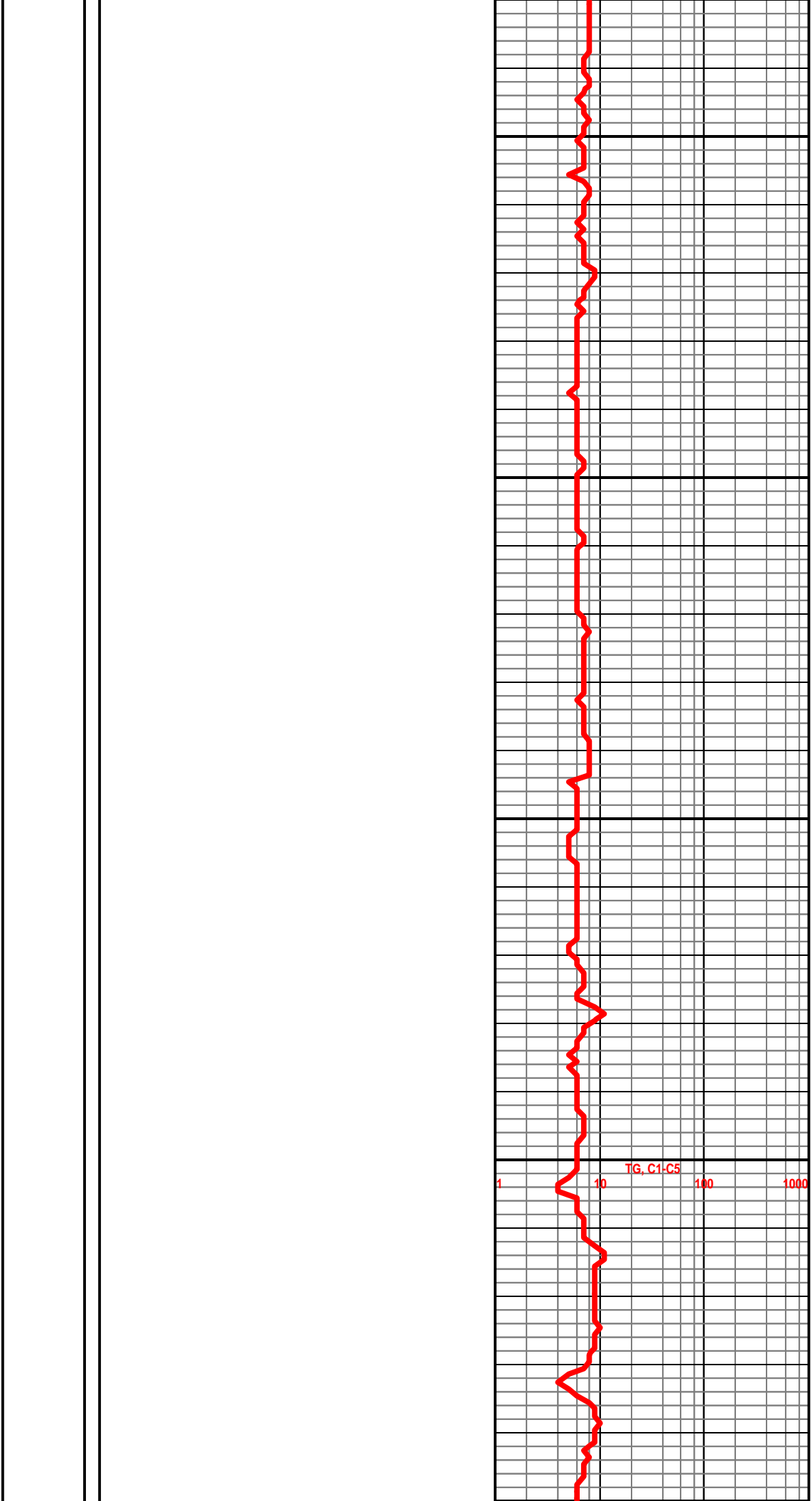
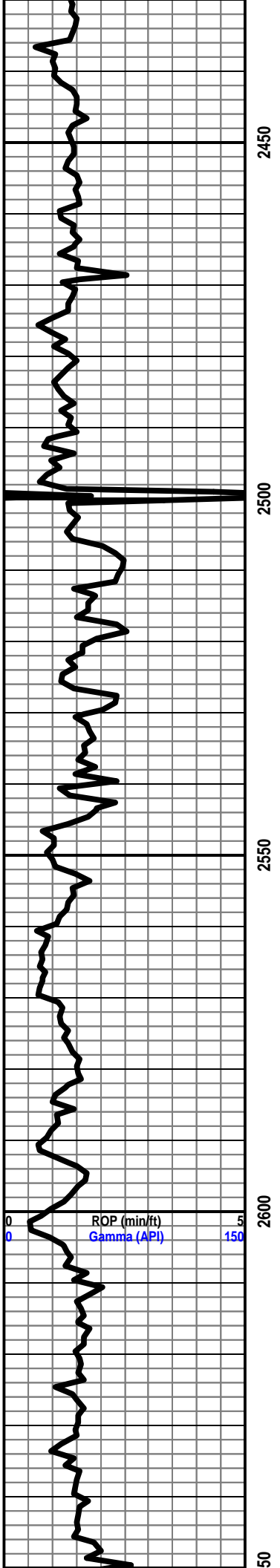
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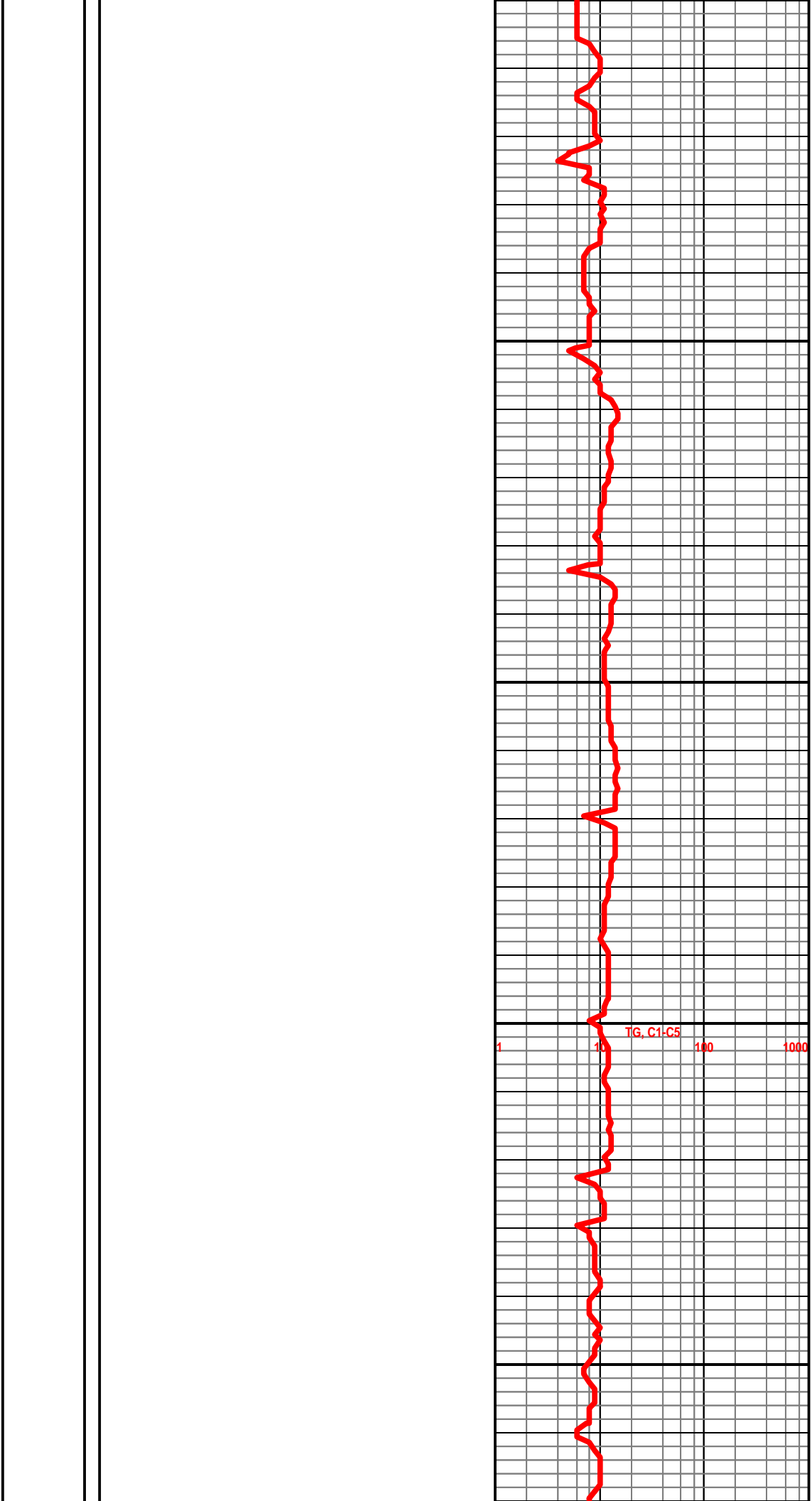
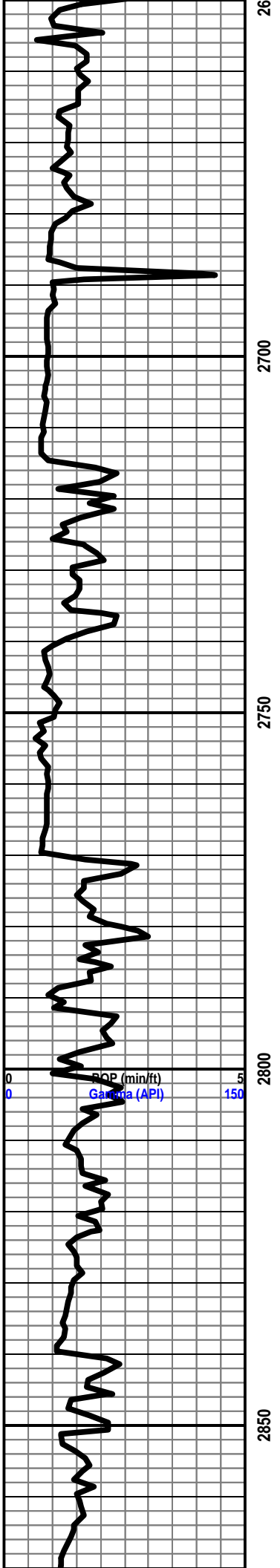
2400

ROP (min/ft)
Gamma (API)



TG, C1-C5





STARTED MANNED UNIT ON 11/13/2011
@ 9:30 P.M.

HOWARD @ 2902' -925'

LS- LT GRY CRM, HD DNS TO BRITT, FN XLN REXLN MTRX IP, SLI TR IMBD FOSS FRAGS SCAT IP, IMBD GRY SHALE, TR DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- GRY, FRM, SMTH BLKY

LS- LT GRY CRM LT TN, HD DNS TO BRITT, FN XLN REXLN MTRX IP, SLI TR IMBD CALC XLS SCAT IP, TR IMBD FOSS FRAGS SCAT IP, IMBD GRY SHALE, TR DLL YEL MIN FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

SEVERY @ 2955' -978'

SH- LT GRY TO GRY, FRM TO TR SFT, SMTH BLKY

TOPEKA @ 2968' -991'

LS- CRM LT TN TO TN IP, HD DNS TO BRITT, FN XLN RELXN MTRX THRU, IMBD CALC XLS IP, IMBD FOSS FRAGS SCAT THRU, V/SLI TR DISS PYR IN 5%, DLL YEL FLO SCAT THRU, TR FR INTR-XLN POR, NO VIS CUT, NO VIS SHOW

SH- GRY, FRM TO SFT, BLKY

LS- GRY, CRM LT TN TO TN, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS SCAT IP, SLI TR IMBD GRY SHALE IP, DLL YEL FLO SCAT IP, NO VIS POR, NO VIS CUT, NO VIS SHOW

LS- CRM LT TN TO TN, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS SCAT IP, TR IMBD GRY SHALE IP, DLL YEL FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- SFT BLK CARB SHALE

SH- GRY TO DK GRY, FRM, SMTH BLKY SLI LIMY

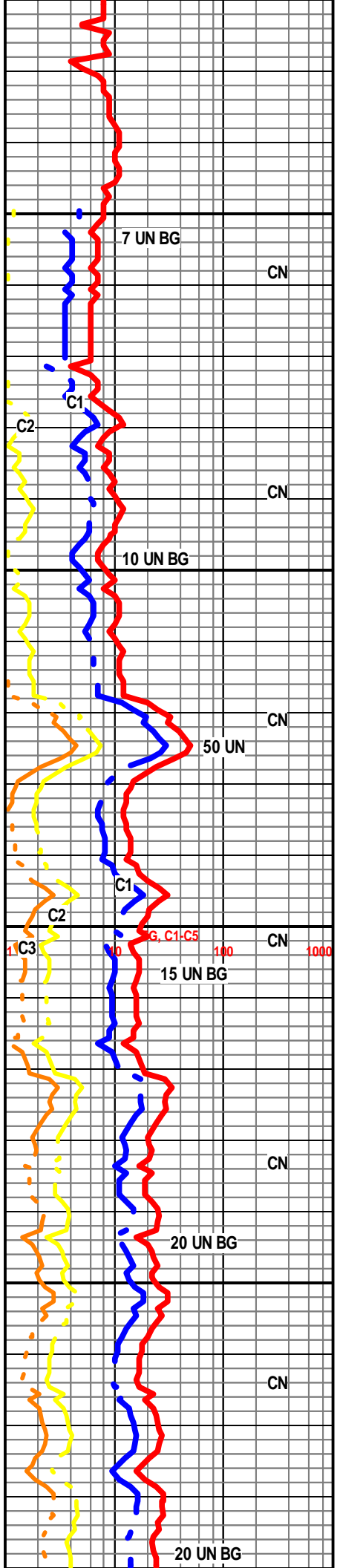
LS- CRM LT TN OFF WHT, HD DNS TO BRITT, FN XLN REXLN MTRX SCAT THRU, IMBD CALC XLS IP, IMBD FOSS FRAGS SCAT THRU, TR SFT WHT CHLK SCAT THRU, DLL YEL FLO IP, NO VIS POR, NO VIS CUT, NO VIS SHOW

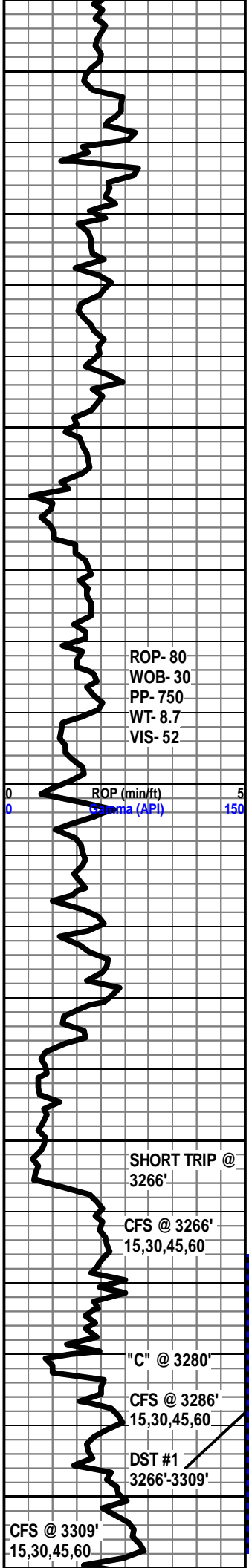
LS- CRM LT TN OFF WHT, HD DNS TO BRITT, FN XLN REXLN MTRX SCAT THRU, IMBD CALC XLS IP, IMBD FOSS

ROP- 80
WOB- 30
PP- 800
SPM- 58
WT- 9.6
VIS- 51

ROP (min/ft)
Gamma (API)

ROP- 80
WOB- 30
PP- 800
SPM- 58
WT- 9.6
VIS- 51





ROP- 80
WOB- 30
PP- 750
WT- 8.7
VIS- 52

ROP (min/ft)
Gamma (API)

SHORT TRIP @
3266'

CFS @ 3266'
15,30,45,60

"C" @ 3280'

CFS @ 3286'
15,30,45,60

DST #1
3266'-3309'

CFS @ 3309'
15,30,45,60

3100
3150
3200
3250
3300

FRAGS SCAT THRU, TR FRM WHT CHLK IP, DLL YEL FLO IP, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- GRY TO DK GRY, FRM, BLKY

SH- SFT BLK CARB SHALE

LS- CRM LT TN TO TN, TARY DOS STAIN SCAT IP, HD DNS TO BRITT, FN XLN REXLN MTRX IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS SCAT IP, SLI TR IMBD SFT WHT CHLK IP, DLL GLD YEL FLO IN 25%, FR TO TR GD INTR-LN POR, GD INST FLUSH CUT TO GD STRONG MLKY BLUE STREAM CUT, NO TO PR OIL ODOR

LS- CRM LT TN TO TN, TARY DOS STAIN IP, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS SCAT IP, FRM WHT CHLK IP, DLL GLD YEL FLO IN 25%, FR TO TR GD INTR-LN POR, GD INST FLUSH CUT TO GD STRONG MLKY BLUE STREAM CUT, NO TO PR OIL ODOR

LS- CRM LT TN TO TN OFF WHT, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS SCAT IP, FRM WHT CHLK SCAT IP, DLL YEL FLO IN 35%, NO VIS POR, NO VIS CUT, NO VIS SHOW

HEEBNER @ 3199' -1222'

LS- CRM LT TN TN, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS IP, IMBD FOSS FRAGS IP, IMBD PYR SCAT IP, DLL YEL FLO THRU TO BRIT YEL FLO IN 35%, FR INTR-XLN POR, NO VIS CUT, NO VIS SHOW

LS- CRM LT TN TN OFF WHT, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS IP, IMBD FOSS FRAGS IP, IMBD PYR SCAT IP, FRM WHT CHLK SCAT IP, DLL YEL FLO THRU, NO VIS POR, NO VIS CUT, NO VIS SHOW

DOUGLAS @ 3231' -1254'

SH- GRY TO DK GRY, FRM TO TR SFT, SMTH BLKY, SLI TR DISS PYR SCAT IP

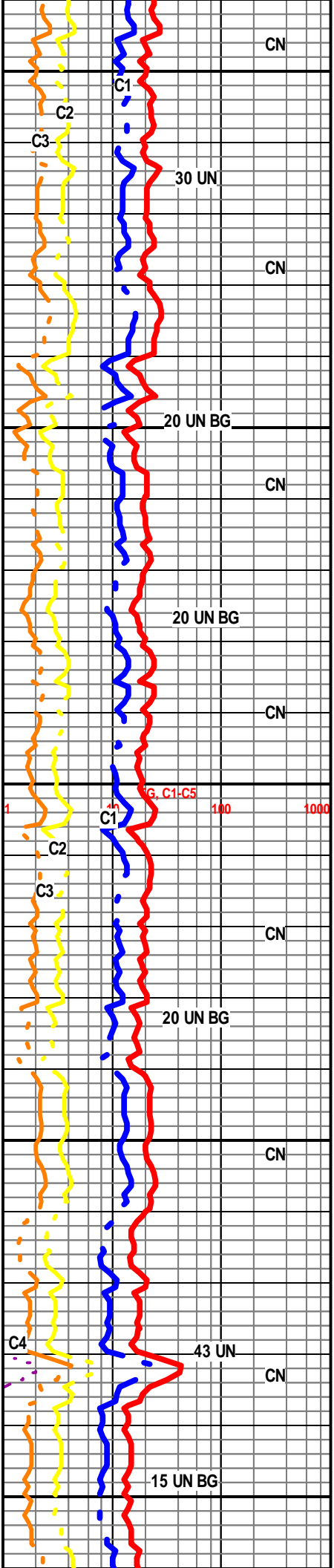
LANSING @ 3256' -1279'

LS- CRM LT TN TO TN, STAIN IN 25%, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS THRU, IMBD FOSS FRAGS SCAT IP, SLI TR FRM WHT CHLK IP, DLL GLD FLO IN 20%, FR TO GD INTR-XLN POR, FR FLUSH CUT TO NO STREAM CUT

LS- CRM LT TN TO TN, STAIN IN 35%, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS THRU, TR IMBD OOLIST SCAT IP, OOLCST SCAT IP, FRM TO SFT WHT CHLK SCAT IP, DLL GLD YEL FLO THRU TR BRIT YEL FLO IN 15%, FR TO TR GD INTR-XLN POR TO FR VUG, FR FLUSH CUT TO FR SLOW MLKY BLUE STREAM CUT IN 30%, FR OIL ODOR

LS- CRM LT TN OFF WHT, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS SCAT IP, IMBD FOSS FRAGS SCAT THRU, IMBD OOLISTS SCAT THRU, OOLCST SCAT IP, SFT WTH CHLK SCAT THRU, DLL YEL FLO SCAT IP, PR INTR-XLN POR, NO VIS CUT, NO VIS SHOW

LS- CRM LT TN OFF WHT, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS SCAT IP, IMBD FOSS FRAGS SCAT THRU, IMBD OOLISTS SCAT IP, SFT WTH CHLK SCAT THRU, DLL YEL FLO SCAT IP, NO



CN

C1

C2

C3

30 UN

CN

20 UN BG

CN

20 UN BG

CN

G. C1-C5

1

C1

C2

C3

100

1000

CN

20 UN BG

CN

43 UN

CN

15 UN BG

VIS POR, NO VIS CUT, NO VIS SHOW

DST #2
3314'-3343'

CFS @ 3343'
15,30,45,60

ROP- 80
WOB- 35
PP- 750
WT- 9.0
VIS- 59

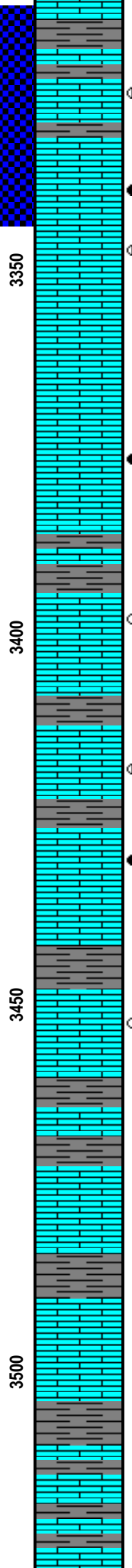
CFS @ 3387'
15,30,45,60

ROP (mft)
Gamma (API)

CFS @ 3441'
15,30,45,60

CFS @ 3454'
15,30,45,60

ROP- 80
WOB- 35
PP- 800
WT- 9.0
VIS- 53



LS- CRM LT TN TN OFF WHT, STAIN IN 20%, HD DNS TO BRITT, FRN XLN REXLN MTRX SCAT THRU, IMBD CALC XLS THRU, IMBD FOSS FRAGS IP, TR IMBD OOLISTS SCAT IP, TR FRM TO SFT WHT CHLK SCAT IP, DLL GLD YEL FLO IN 35%, FR TO TR GD INTR-XLN POR, GD FLUSH CUT THRU TO FR STRONG MLKY BLUE STREAM CUT IN 30%, PR TO FR OIL ODOR

LS- CRM LT TN TO TN, STAIN IN 45%, HD DNS TO BRITT TO TR VBRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS SCAT IP, IMBD OOLISTS SCAT THRU, SLI TR SFT WHT CHLK IP, DLL GLD YEL FLO THRU, GD OOLIC POR TO TR FR VUG AN INTR-XLN POR, GD INST FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT THRU, GD OIL ODOR, LT TN STAIN ON DISH

LS- CRM LT TN OFF WHT, STAIN IN 10%, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS IP, IMBD OOLIST SCAT THRU, OOLCST IP, FRM TO SFT WHT CHLK SCAT THRU, DLL YEL FLO THRU, FR INTR-XLN POR TO TR FR OOLCST POR, GD FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 30%, PR OIL ODOR, VLT TN STAIN ON DISH

LS- CRM LT TN TO TN OFF WHT, STAIN IN 55%, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX THRU, IMBD CALC XLS SCAT IP, IMBD FOSS FRAGS IP, IMBD OOL SCAT IP, FRM WHT CHLK SCAT IP, DLL YEL FLO THRU TO BRIT YEL FLO IN 25%, TR GD INTR-XLN POR TO TR FR VUG POR, GD INST FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT THRU, GD OIL ODOR, TN STAIN ON DISH

LS- CRM LT TN OFF WHT, HD DNS TO BRITT, FN XLN REXLN MTRX SCAT THRU, TR IMBD CALC XLS SCAT IP, SLI TR IMBD FOSS FRAGS IP, FRM TO SFT WHT CHLK SCAT THRU, DLL YEL FLO THRU, FR INTR-XLN POR, PR FLUSH CUT TO NO STREAM CUT, NO ODOR

LS- CRM LT TN TO TN OFF WHT, STAIN IN 20%, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX THRU, IMBD CALC XLS THRU, SLI TR IMBD FOSS FRAGS IP, SLI TR FRM WHT CHLK IP, DLL YEL FLO TO BRIT YEL IN 10%, GD INTR-XLN POR, GD FLUSH CUT TO FR SLOW MLKY BLUE STREAM CUT IN 15%, PR ODOR

LS- CRM LT TN TO TN, STAIN SCAT IP, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS THRU, SLI TR IMBD OOL IP, SLI TR PYR IP, DLL YEL FLO THRU TO BRIT YEL FLO IN 30%, GD INTR-XLN POR TO TR GD VUG POR, GD FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 45%, GD OIL ODOR, TN STAIN ON DISH

SH- GRY TO DK GRY, FRM, SMTH BLKY, SLI LIMY

LS- CRM LT TN TN OFF WHT, STAIN IN 15%, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, TR IMBD FOSS FRAGS IP, SLI TR SFT WHT CHLK SCAT IP, DLL YEL FLO THRU, FR TO GD INTR-XLN POR, FR FLUSH CUT TO PR WEAK MLKY BLUE CUT IN 10%, SLI TR PR ODOR

SH- GRY TO DK GRY, FRM, BLKY, SLI LIMY, PYR IP

LS- CRM LT TN OFF WHT, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX THRU, IMBD CALC XLS SCAT IP, SLI TR IMBD FOSS FRAGS IP, SFT WHT CHLK IP, IMBD DISS PYR IN 5%, DLL YEL FLO SCAT THRU, FR INTR-XLN POR, NO VIS CUT, NO VIS SHOW

BASE KANSAS CITY @ 3483' -1506'

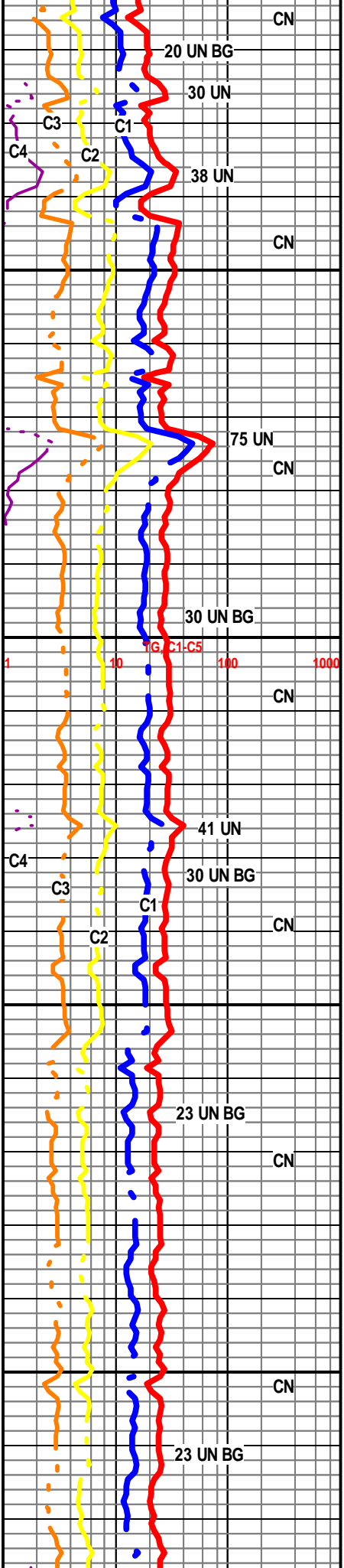
SH- GRY TO DK GRY RDISH BRN, FRM TO SFT, BLKY SLI LIMY, DISS PYR SCAT IP

LS- CRM LT TN TN OFF WHT, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS IP, YELISH WHT CHRT SCAT IP, IMBD DISS PYR IN 5%, DLL YEL FLO THRU, PR INTR-XLN POR TO TR FR VUG, NO VIS CUT, NO VIS SHOW

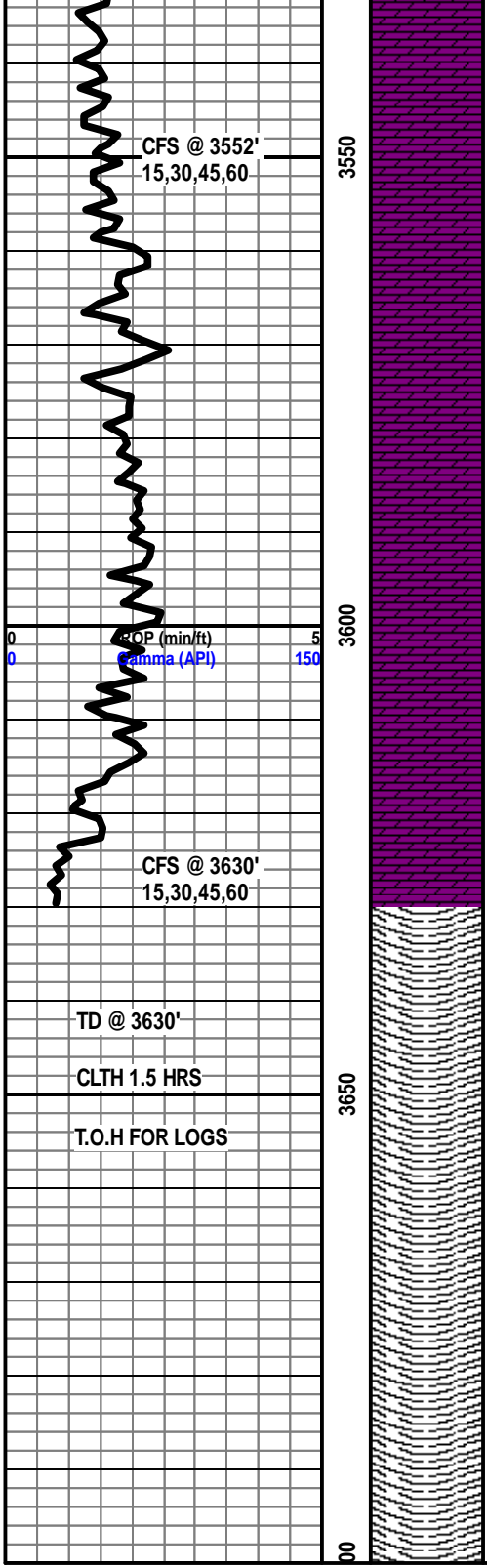
SH- DK GRY TO RDISH BRN, SFT TO GUMMY, BLKY, YELISH WHT CHLK SCAT THRU

SH- GRY TO DK GRY RDISH BRN THRU, SFT GUMMY, BLKY, LIMY THRU, PYR SCAT IP, YELISH PINK WHT CHRT SCAT THRU

APBUOKLE @ 3500' -1550'



ARBUCKLE @ 3530' -1553'



● DOL- GRY LT TN TO TN, STAIN IN 60%, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, IMBD ABDT SM ANG TO S/RND DOL GRNS, TR WHT CHRT IP, DLL GLD FLO THRU TO BRIT GLD FLO IN 35%, GD INTR-XLN POR TO TR FR VUG POR, GD FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT THRU, TN STAIN ON DISH, GD OIL ODOR

● DOL- CRM OFF WHT WHT, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, IMBD ABDT SM ANG TO S/RND DOL GRNS, TR WHT CHRT SCAT IP, SLI TR FRM WHT CHLK, DLL GLD FLO THRU TO BRIT GLD FLO IN 15%, GD INTR-XLN POR, GD FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 20%, GD OIL ODOR

● DOL- CRM OFF WHT LT TN, HD DNS TO BRITT, FN TO MD XLN, SUCRO MTRX THRU, IMBD ABDT SM ANG DOL GRNS, TR IMBD PYR IP, DLL GLD FLO THRU TO BRIT GLD FLO IN 5%, GD INTR-XLN POR, GD FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 30%, GD OIL ODOR

● DOL- CRM LT TN OFF WHT, HD DNS TO BRITT, FN TO MD XLN, SUCRO MTRX THRU, IMBD ABDT SM ANG DOL GRNS, TR IMBD PYR IP, DLL GLD FLO THRU, GD INTR-XLN POR, FR FLUSH CUT THRU TO FR MLKY BLUE STREAM CUT IN 15%, FR OIL ODOR

● DOL- CRM LT TN OFF WHT, HD DNS TO BRITT, FN TO MD XLN, SUCRO MTRX THRU, IMBD ABDT SM ANG DOL GRNS, TR IMBD GRN CLAY IP, DLL GLD FLO THRU, GD INTR-XLN POR, FR FLUSH CUT THRU TO FR MLKY BLUE STREAM CUT IN 15%, FR OIL ODOR

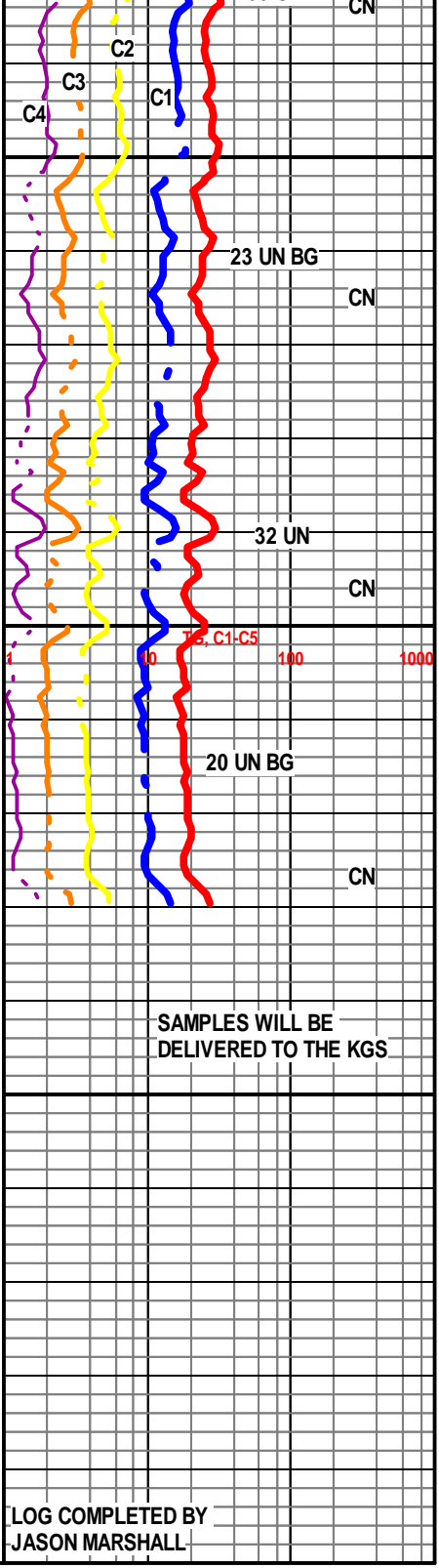
● DOL- CRM OFF WHT LT TN, HD DNS TO BRITT, FN XLN, SUCRO MTRX THRU, IMBD ABDT SM ANG DOL GRNS, TR PYR SCAT THRU, DLL GLD FLO THRU, GD INTR-XLN POR, FR FLUSH CUT THRU TO FR WEAK MLKY BLUE STREAM CUT IN 15%, FR OIL ODOR

RTD 3630' @ 3:30 PM 11/16/2011

SAMPLES WILL BE DELIVERED TO THE KGS

**LOGS BY WEATHERFORD
LIBERAL KANSAS**

THANK YOU FOR CHOOSING EARTHTECH



**LOG COMPLETED BY
JASON MARSHALL**