



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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



1069181

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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> _____ <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	LONG ET AL 1-14
Doc ID	1069181

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

November 29, 2011

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

Re: ACO1
API 15-165-21933-00-00
LONG ET AL 1-14
NW/4 Sec.14-16S-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



Notice: Fill out COMPLETELY and return to Conservation Division at the address below within 60 days from plugging date.

KANSAS CORPORATION COMMISSION 1061938
OIL & GAS CONSERVATION DIVISION

Form CP-4
March 2009

Type or Print on this Form
Form must be Signed
All blanks must be Filled

WELL PLUGGING RECORD
K.A.R. 82-3-117

OPERATOR: License #: _____
 Name: _____
 Address 1: _____
 Address 2: _____
 City: _____ State: _____ Zip: _____ + _____
 Contact Person: _____
 Phone: (_____) _____
 Type of Well: (Check one) Oil Well Gas Well OG D&A Cathodic
 Water Supply Well Other: _____ SWD Permit #: _____
 ENHR Permit #: _____ Gas Storage Permit #: _____
 Is ACO-1 filed? Yes No If not, is well log attached? Yes No
 Producing Formation(s): List All (If needed attach another sheet)
 _____ Depth to Top: _____ Bottom: _____ T.D. _____
 _____ Depth to Top: _____ Bottom: _____ T.D. _____
 _____ Depth to Top: _____ Bottom: _____ T.D. _____

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
 County: _____
 Lease Name: _____ Well #: _____
 Date Well Completed: _____
 The plugging proposal was approved on: _____ (Date)
 by: _____ (KCC District Agent's Name)
 Plugging Commenced: _____
 Plugging Completed: _____

Show depth and thickness of all water, oil and gas formations.

Oil, Gas or Water Records		Casing Record (Surface, Conductor & Production)			
Formation	Content	Casing	Size	Setting Depth	Pulled Out

Describe in detail the manner in which the well is plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same depth placed from (bottom), to (top) for each plug set.

Plugging Contractor License #: _____ Name: _____
 Address 1: _____ Address 2: _____
 City: _____ State: _____ Zip: _____ + _____
 Phone: (_____) _____
 Name of Party Responsible for Plugging Fees: _____
 State of _____ County, _____, ss.
 _____ Employee of Operator or Operator on above-described well,
 (Print Name)

being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained, and the log of the above-described well is as filed, and the same are true and correct, so help me God.

Submitted Electronically

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202



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: 8/9/2011
 Invoice # 5064

P.O.#:
 Due Date: 9/8/2011
 Division: Russell

V1108-AP-621 9/1

Invoice

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

Reference:
 LONG ET AL 1-14

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	LONG ET AL 1-14
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:

	Quantity	Price	Taxable
Labor		\$ 950.65	No
Common-Class A	370	\$ 4,699.51	Yes
8 5/8" Basket	3	\$ 986.96	Yes
Bulk Truck Matl-Material Service Charge	390	\$ 812.05	No
Calcium Chloride	13	\$ 509.70	Yes
Pump Truck Mileage-Job to Nearest Camp	26	\$ 270.14	No
8 5/8" Centralizer	3	\$ 199.89	Yes
Flo Seal	92	\$ 191.56	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	26	\$ 158.08	No
Premium Gel (Bentonite)	7	\$ 118.64	Yes
8 5/8" Top Rubber Plug	1	\$ 110.36	Yes

Item	Quantity	Price	Taxable
Baffle Plate Aluminum, 8 5/8"	1	\$93.70	Yes

Invoice Terms:

Net 30

SubTotal: \$ 9,101.24
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,365.19)

SubTotal for Taxable Items: \$ 5,873.77
 SubTotal for Non-Taxable Items: \$ 1,862.29

Total: \$ 7,736.05
 Tax: \$ 370.05

Amount Due: \$ 8,106.10
 Applied Payments:
 Balance Due: \$ 8,106.10

6.30% Rush County Sales Tax

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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RECEIVED

AUG 15 2011

SAMUEL GARY JR.
 & ASSOCIATES, INC.

Date	8-4-11	Sec.		Twp.		Range		County	Rush	State	Kansas	On Location		Finish	5:00 PM
Lease	Long E+ A1	Well No.	1-14	Location	Galatia SW 2nd 3/4										
Contractor	Discovery Drilling	IGR 2	Owner			of Galatia S to Ct 2nd 3/4 W									
Type Job	Surface	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.										
Hole Size	12 1/4	T.D.	1052	Charge To	Samuel Gray, Jr. Associates										
Csg.	8 3/8 23lb	Depth	1052	Street											
Tbg. Size		Depth		City											
Tool	Baffle Plate	Depth		State											
Cement Left in Csg.		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.											
Meas Line		Displace	6.47	Cement Amount Ordered	370 Common Ball										

EQUIPMENT

Pumptrk	9	No.	Cement		2 1/2	3/4	Flt Seal	per	OK
			Helper	Steve	Common	370			
Bulktrk	12	No.	Driver	Steve	Poz. Mix				
			Driver	Steve	Gel.	7			
Bulktrk		No.	Driver	Steve	Calcium	13			
			Driver	Steve	Hulls				

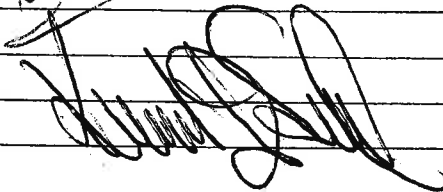
JOB SERVICES & REMARKS

Remarks:		Salt	
Rat Hole		Flowseal	92#
Mouse Hole		Kol-Seal	
Centralizers		Mud CLR 48	
Baskets		CFL-117 or CD110 CAF 38	
D/V or Port Collar		Sand	
		Handling	390
		Mileage	

Cement did Circulate

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	3
Baskets	43
AFU Inserts	
Float Shoe	
Latch Down	
Rubber Plug	
Baffle Plate	
Pumptrk Charge	Long Surface
Mileage	26

Thank you


X 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: 8/13/2011
 Invoice # 5070

P.O.#:
 Due Date: 9/12/2011
 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	8200-145
Well/Prospect	LONG ET AL 1-14
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Reference:
 LONG ET A12

Description of Work:
 PLUG JOB

Services / Items Included:

	Quantity	Price	Taxable
Labor		\$ 977.42	No
Common-Class A	126	\$ 1,645.45	Yes
Bulk Truck Mat-Material Service Charge	217	\$ 464.56	No
POZ Mix-Standard	84	\$ 413.61	Yes
Pump Truck Mileage-Job to Nearest Camp	25	\$ 267.07	No
Bulk Truck Mileage-Job to Nearest Bulk Plant	25	\$ 156.28	No
Premium Gel (Bentonite)	7	\$ 121.99	Yes

Item	Quantity	Price	Taxable
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Invoice Terms:

Net 30

SubTotal: \$ 4,046.39
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (606.96)

SubTotal for Taxable Items:	\$ 1,853.89
SubTotal for Non-Taxable Items:	\$ 1,585.54
Total:	\$ 3,439.43
Tax:	\$ 116.80

6.30% Rush County Sales Tax

Amount Due: \$ 3,556.23
Applied Payments:
Balance Due: \$ 3,556.23

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

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

No. 5070

Date	8-9-11	Sec.	14	Twp.	16	Range	16	County	Rush	State	Kansas	On Location		Finish	12:00 AM
Lease	Lang Et Al		Well No.	2		Location									
Contractor										Discovery Drilling Rig					
Type Job										Plus					
Hole Size										7 7/8					
Csg.										Depth					
Tbg. Size										Depth					
Tool										Depth					
Cement Left in Csg.										Shoe Joint					
Meas Line										Displace					

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.

Charge To
Simmond Gary Jr & Associates

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 210 gal/wk 460 gal

EQUIPMENT

Pumptrk	5	No.	Cementer		Common	126
			Helper	Steve		
Bulktrk	13	No.	Driver		Poz. Mix	84
			Driver	Lonny		
Bulktrk		No.	Driver		Gel.	7
			Driver	Dave		

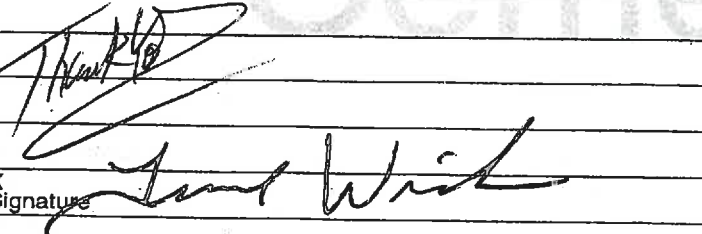
JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal 50#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
1st Plug @ 3548	CFL-117 or CD110 CAF 38
2nd " " 1080	Sand
3rd " " 430	Handling 211
4th " " 60	Mileage

FLOAT EQUIPMENT

Rat Hole	Guide Shoe
Mouse Hole	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge plug
Mileage 251

X Signature 

Tax
Discount
Total Charge



DRILL STEM TEST REPORT

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

1515 Wynkoop
Denver CO

ATTN: Clayton/Tom

14 16s 16w Rush KS

Long et al 1-14

Start Date: 2011.08.08 @ 14:49:22

End Date: 2011.08.08 @ 20:48:51

Job Ticket #: 39731 DST #: 1

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr & Associates

Long et al 1-14

1515 Wynkoop
Denver CO

14 16s 16w Rush KS

ATTN: Clayton/Tom

Job Ticket: 39731

DST#: 1

Test Start: 2011.08.08 @ 14:49:22

GENERAL INFORMATION:

Formation: **Lansing I-J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:46:51

Time Test Ended: 20:48:51

Test Type: Conventional Bottom Hole

Tester: Paul Simpson

Unit No: 44

Interval: 3375.00 ft (KB) To 3430.00 ft (KB) (TVD)

Reference Elevations: 1927.00 ft (KB)

Total Depth: 3430.00 ft (KB) (TVD)

1919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8321 Outside

Press @ Run Depth: 42.82 psig @ 3380.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.08

End Date:

2011.08.08

Last Calib.:

2011.08.08

Start Time: 14:49:22

End Time:

20:48:51

Time On Btm:

2011.08.08 @ 16:45:51

Time Off Btm:

2011.08.08 @ 19:09:51

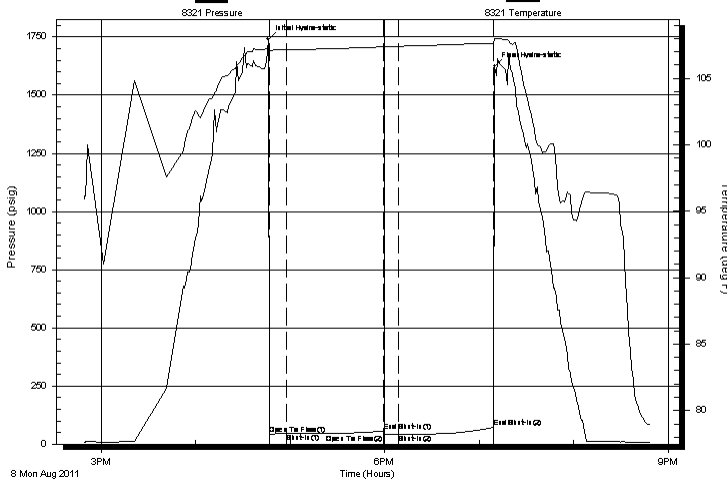
TEST COMMENT: 10- IF weak blow died in 7 minutes

60- ISI

10- FF no blow

60

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1740.47	107.27	Initial Hydro-static
1	43.51	107.03	Open To Flow (1)
12	46.04	107.15	Shut-In(1)
73	56.79	107.37	End Shut-In(1)
74	44.03	107.37	Open To Flow (2)
83	42.82	107.41	Shut-In(2)
143	72.07	107.64	End Shut-In(2)
144	1622.93	107.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr & Associates

Long et al 1-14

1515 Wynkoop
Denver CO

14 16s 16w Rush KS

Job Ticket: 39731

DST#: 1

ATTN: Clayton/Tom

Test Start: 2011.08.08 @ 14:49:22

Tool Information

Drill Pipe:	Length: 3314.00 ft	Diameter: 3.80 inches	Volume: 46.49 bbl	Tool Weight: 2900.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.64 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3375.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3340.00	
Recorder	0.00	8737	Fluid	3340.00	
Blank Spacing	5.00			3345.00	
Shut In Tool	5.00			3350.00	
Sampler	3.00			3353.00	
Hydraulic tool	5.00			3358.00	
Jars	5.00			3363.00	
Safety Joint	2.00			3365.00	
Packer	5.00			3370.00	36.00 Bottom Of Top Packer
Packer	5.00			3375.00	
Stubb	1.00			3376.00	
Perforations	3.00			3379.00	
Change Over Sub	1.00			3380.00	
Recorder	0.00	8679	Inside	3380.00	
Recorder	0.00	8321	Outside	3380.00	
Blank Spacing	31.00			3411.00	
Change Over Sub	1.00			3412.00	
Perforations	15.00			3427.00	
Bullnose	3.00			3430.00	55.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr & Associates

Long et al 1-14

1515 Wynkoop
Denver CO

14 16s 16w Rush KS

Job Ticket: 39731

DST#: 1

ATTN: Clayton/Tom

Test Start: 2011.08.08 @ 14:49:22

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

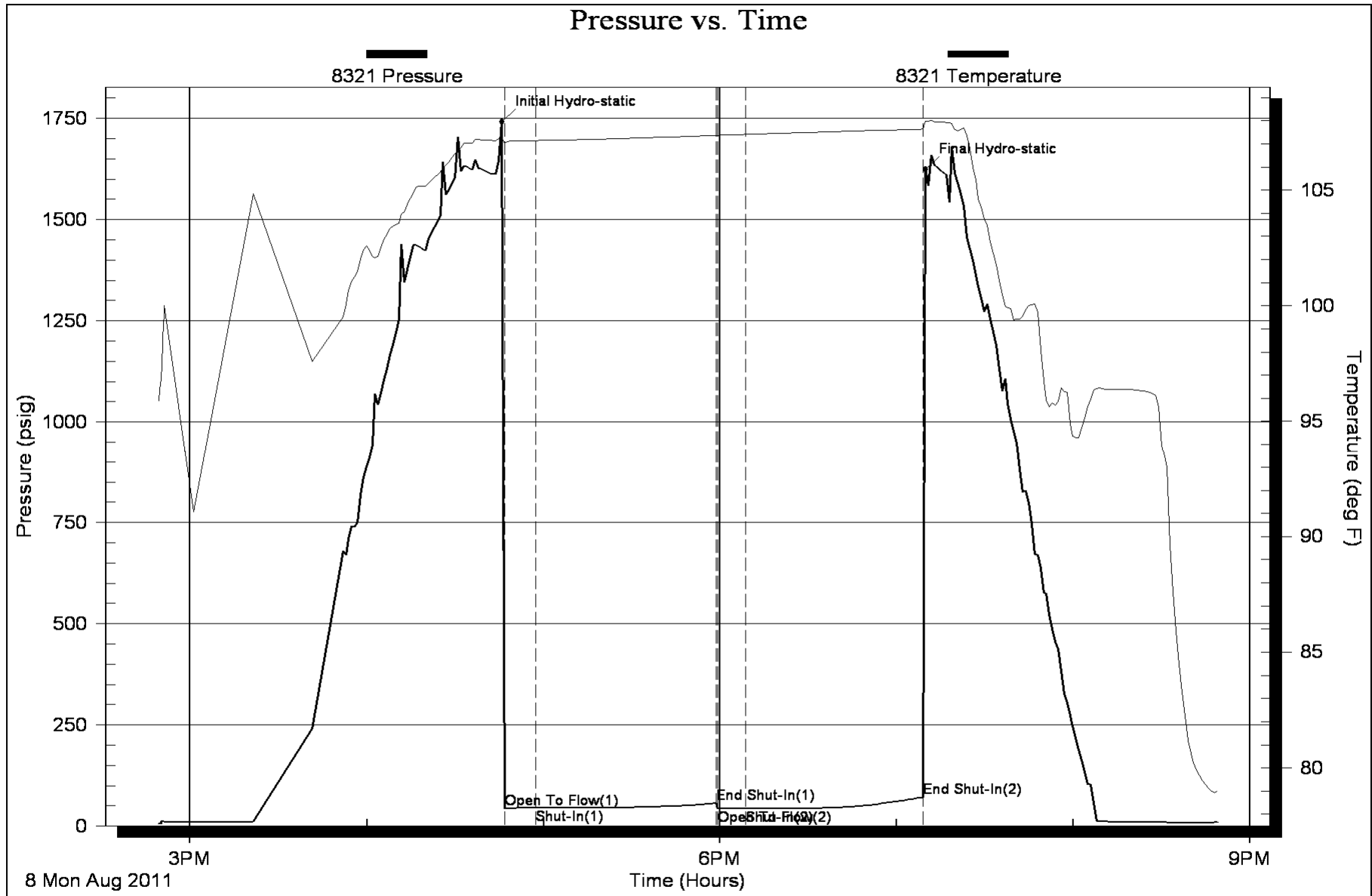
Num Gas Bombs: 0

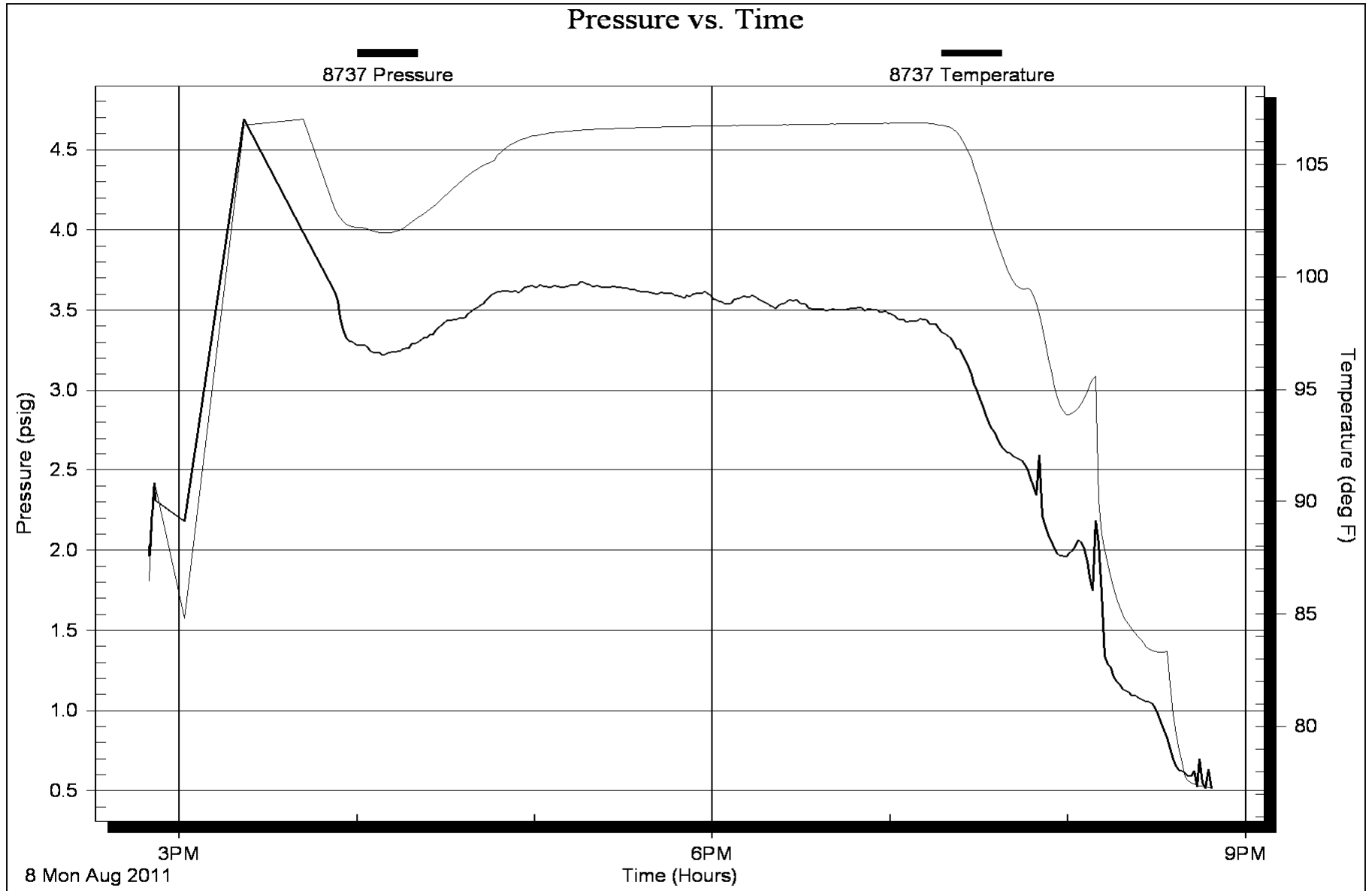
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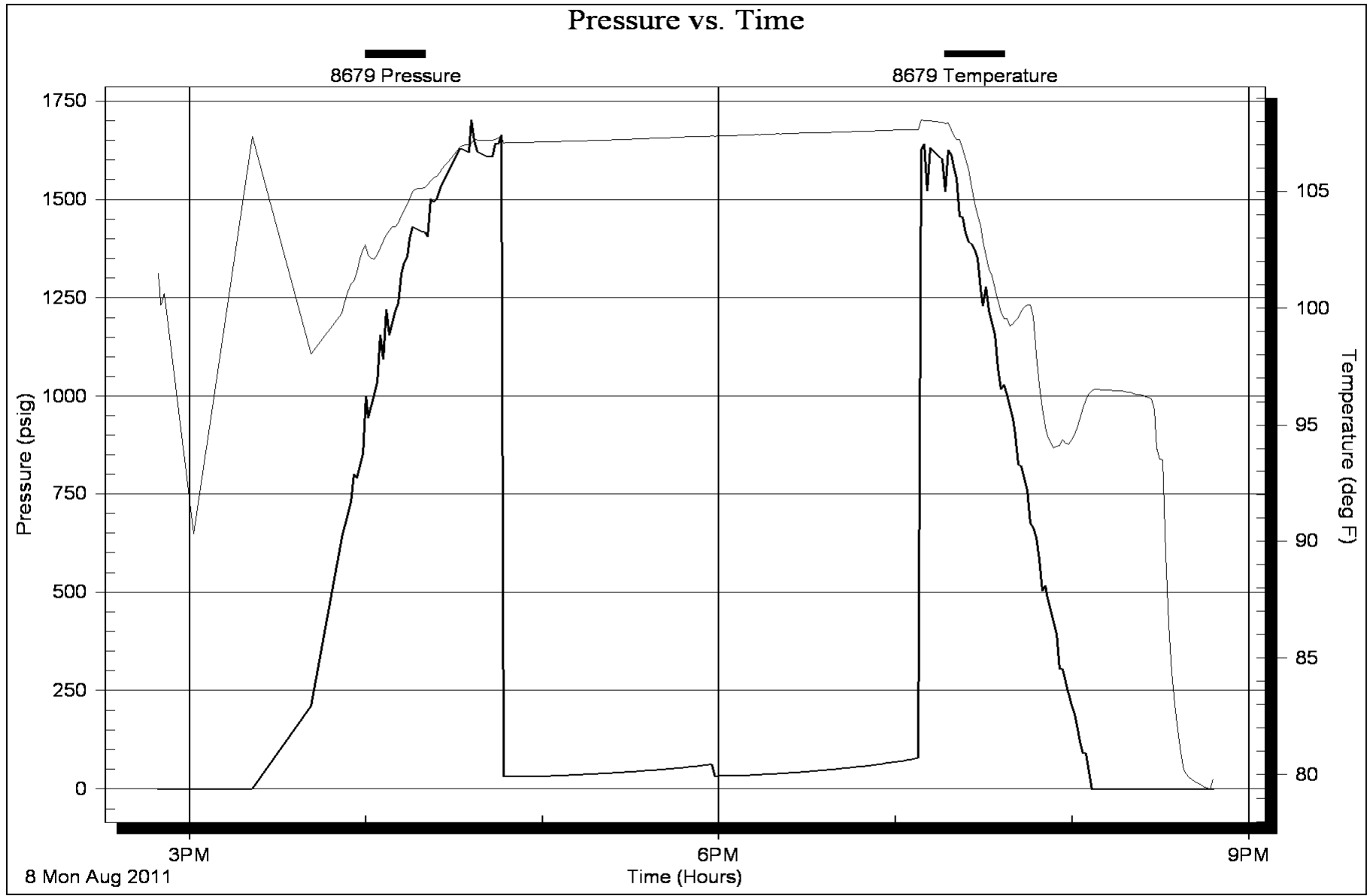
Laboratory Name:

Laboratory Location:

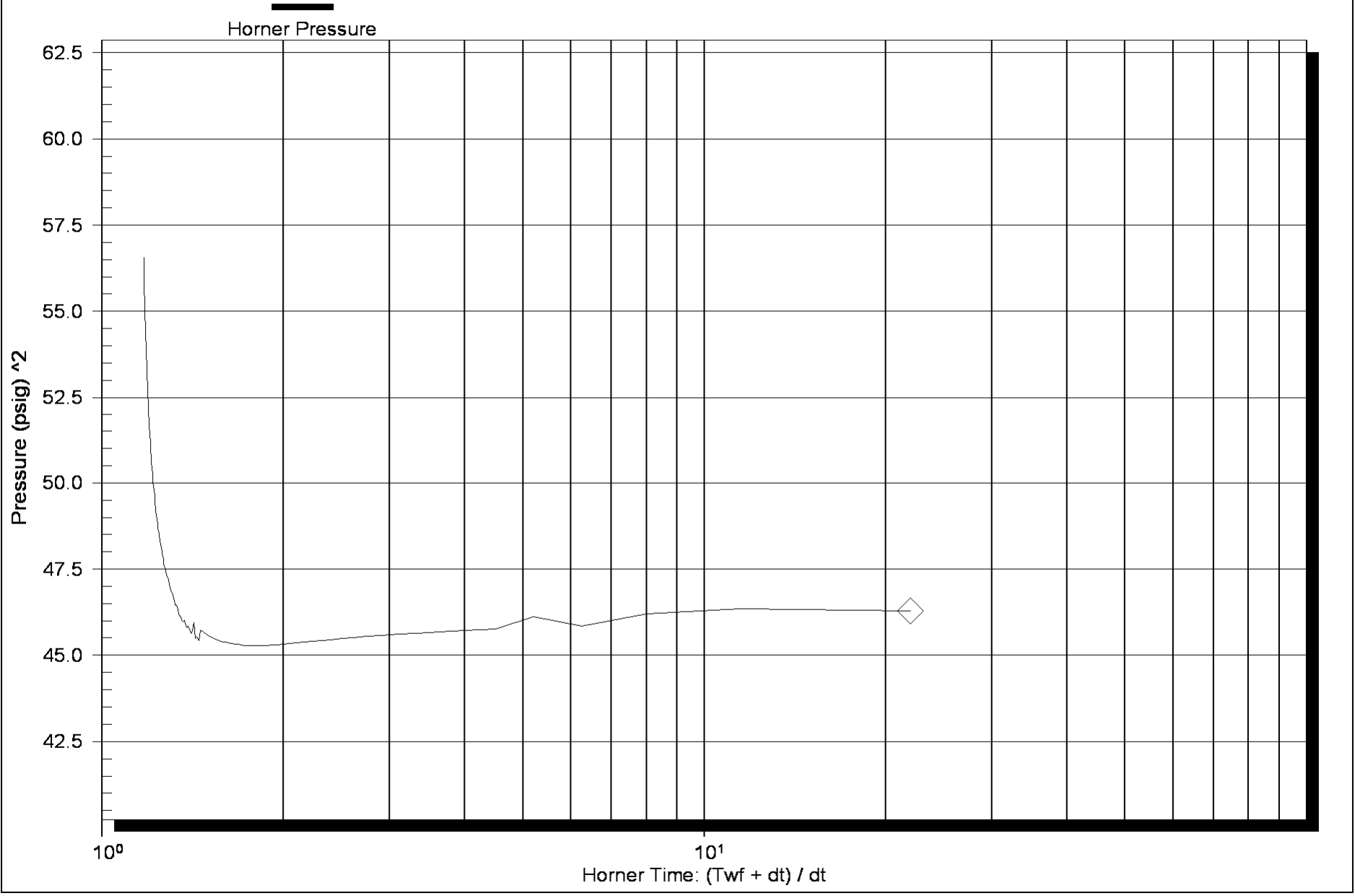
Recovery Comments:



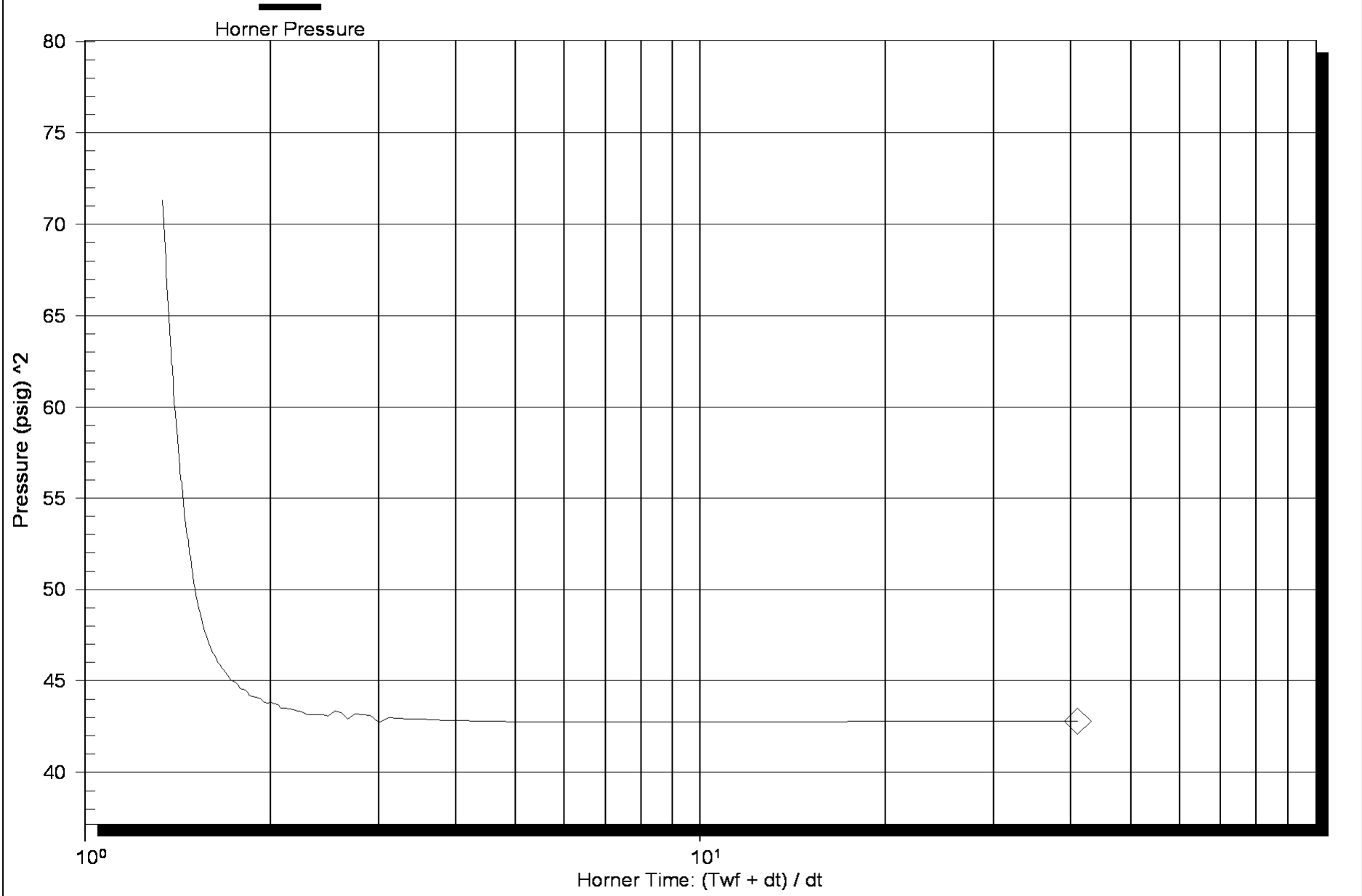




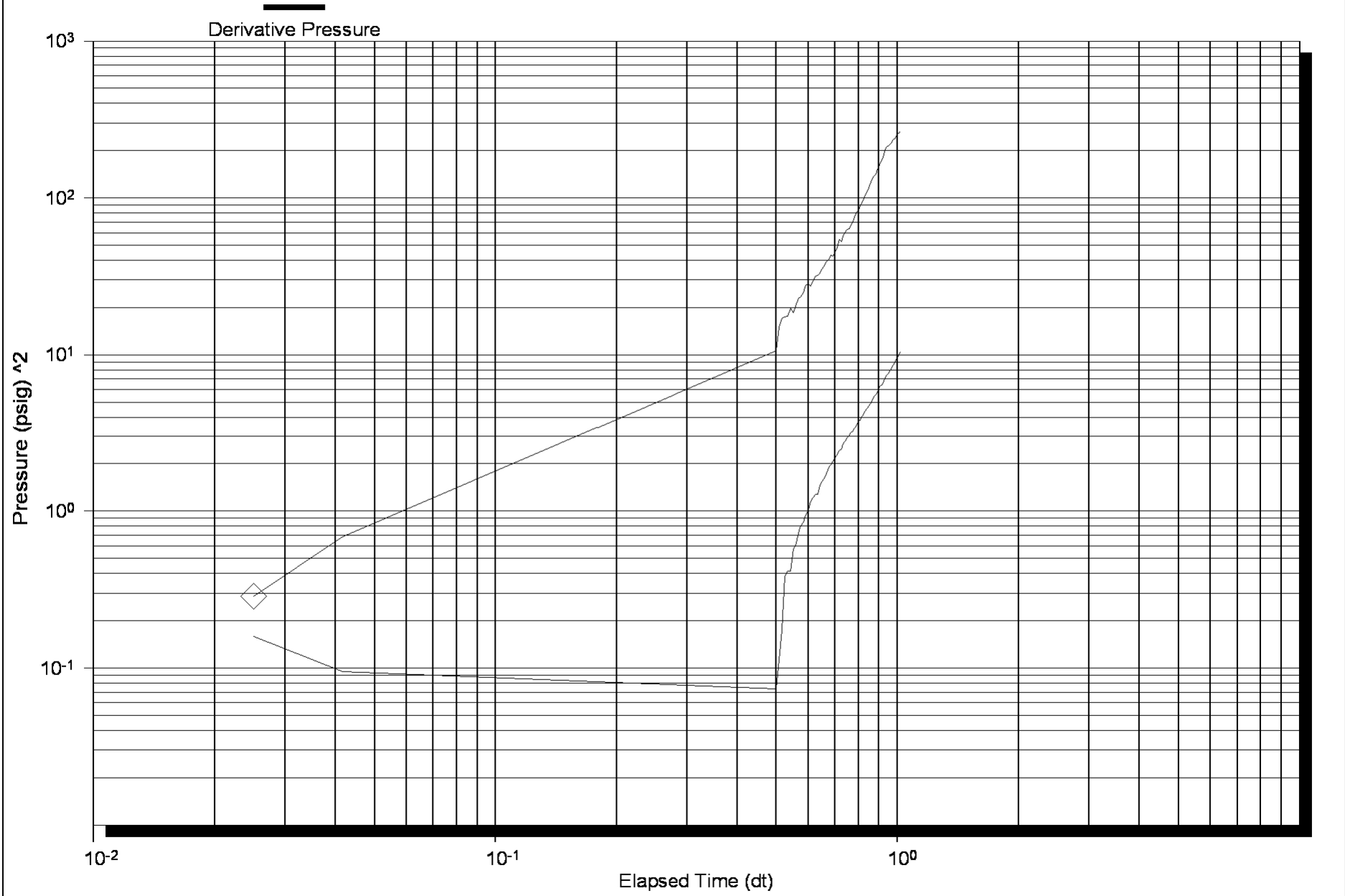
Horner Plot

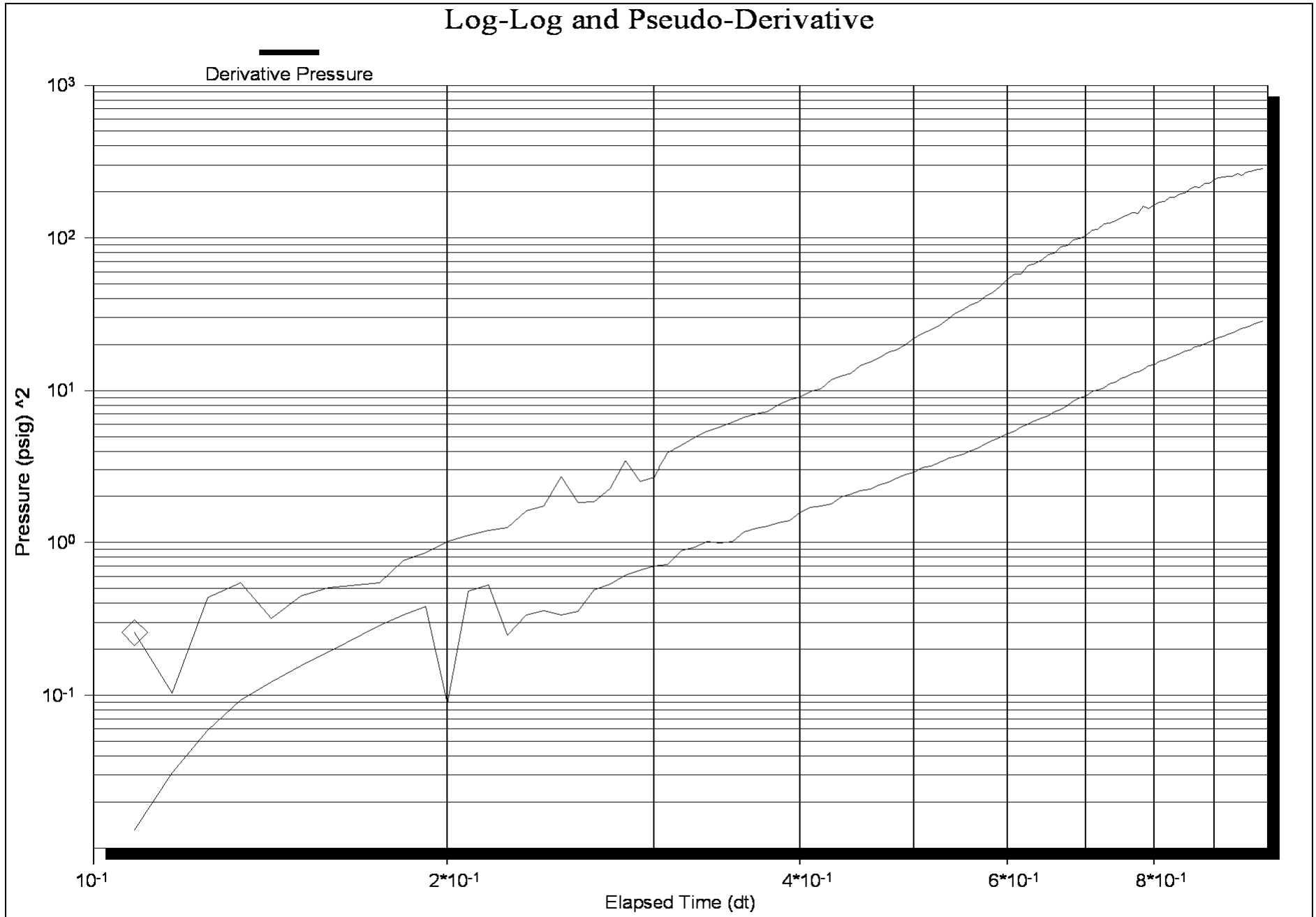


Horner Plot



Log-Log and Pseudo-Derivative







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

Well Name: Long et al 1-14
Location: Sec. 14 - 16S - 16W, Rush County, Kansas
License Number: 15-165-21933
Spud Date: 8/3/2011
Surface Coordinates: 1160FNL / 1380 FWL
Region: Wildcat
Drilling Completed: 8/09/2011

Bottom Hole Coordinates:

Ground Elevation (ft): 1919' K.B. Elevation (ft): 1927'
Logged Interval (ft): 1700' To: 3650' Total Depth (ft): 3650'
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. & Associates, Inc.
Address: 1515 WYNKOOP ST. STE 700
Denver, Co 80202
Co. Geo: Clayton Camozz

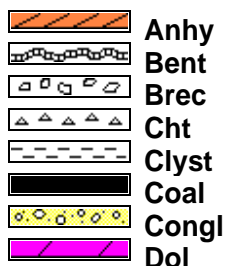
GEOLOGIST

Name: Tim Hedrick
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla. 73945
888-543-8378 Cell: 620-482-0035

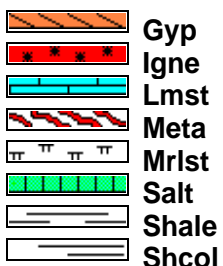
DSTs

DST#1 3375 TO 3430 10 60 10 60
IF-WK BLO DIED IN 5 MIN./ ISI-NB/IF-NB/FF-NB
IH- 1740, FH- 1623/ IF-43 TO 46, FF-44 TO 43/ ISI-57, FSI-72
RECOVERED, 1 FOOT DRILL MUD
SAMPLER 4000 ML M., 30 PSI,

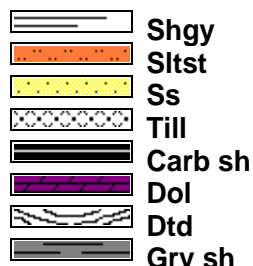
ROCK TYPES



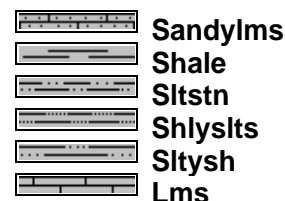
Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol



Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol



Shgy
Sltst
Ss
Till
Carb sh
Dol
Dtd
Gry sh



Sandylms
Shale
Sltstn
Shlyslts
Sltyslts
Lms

ACCESSORIES

MINERAL

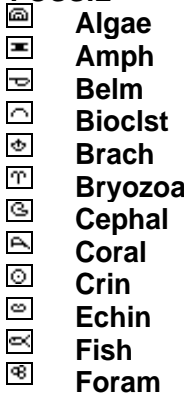


Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau
Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr

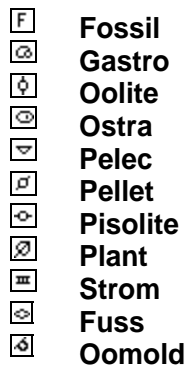


Salt
Sandy
Silt
Sil
Sulphur
Tuff
Chlorite
Dol
Sand
Sltly

FOSSIL

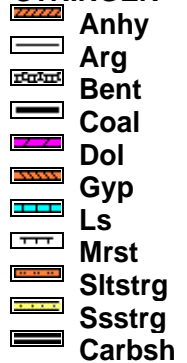


Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram

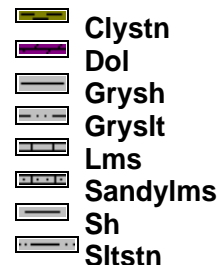


Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom
Fuss
Oomold

STRINGER

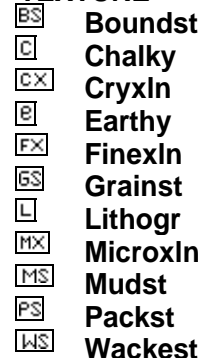


Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg
Carbsh



Clystn
Dol
Grysh
Gryslt
Lms
Sandylms
Sh
Sltstn

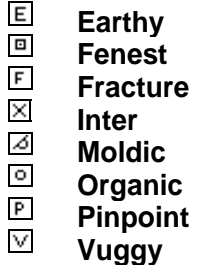
TEXTURE



Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

OTHER SYMBOLS

POROSITY TYPE



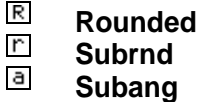
Earthy
Fenest
Fracture
Inter
Moldic
Organic
Pinpoint
Vuggy

SORTING



Well
Moderate
Poor

ROUNDING



Rounded
Subrnd
Subang



Angular

OIL SHOWS



Even
Spotted
Ques
Dead
Gas show

INTERVALS

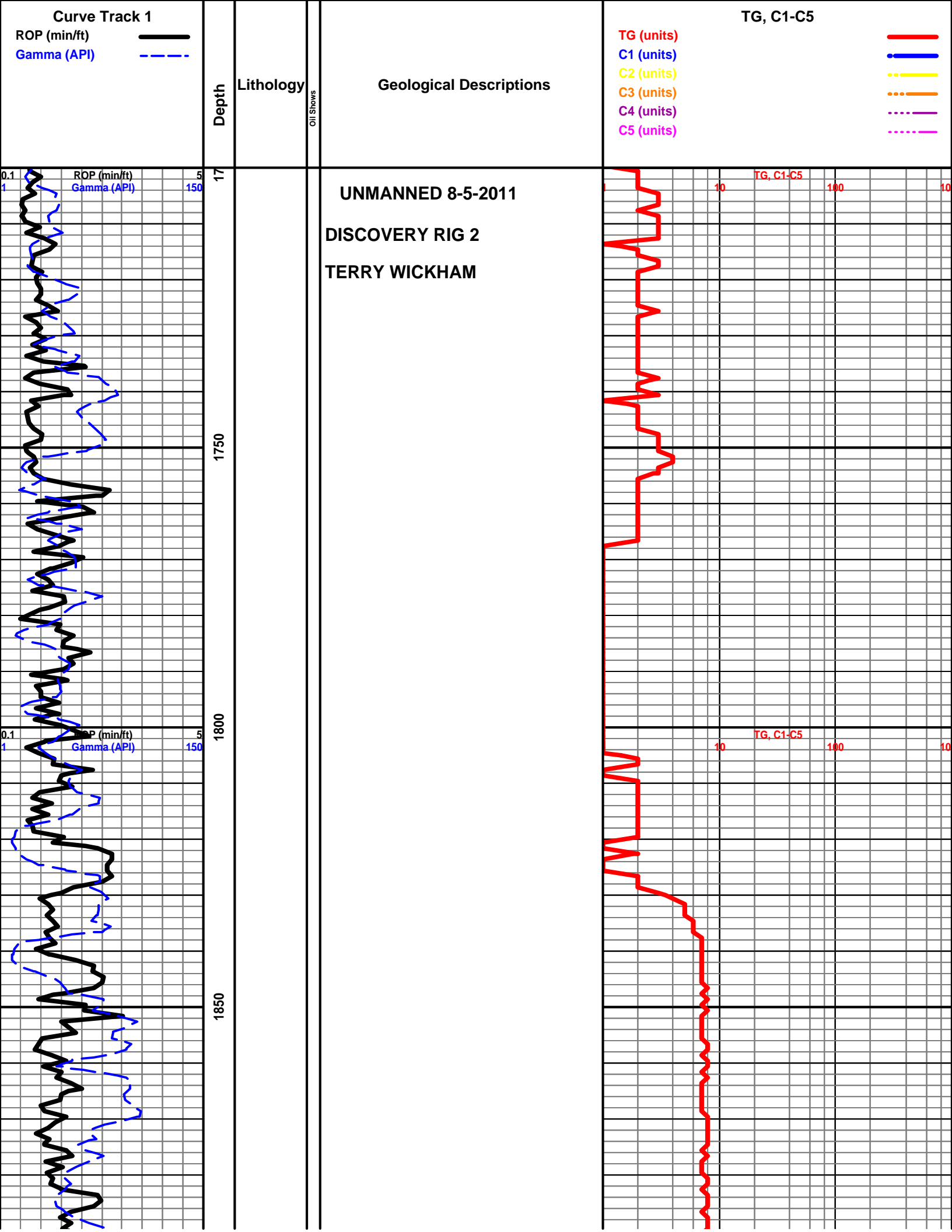


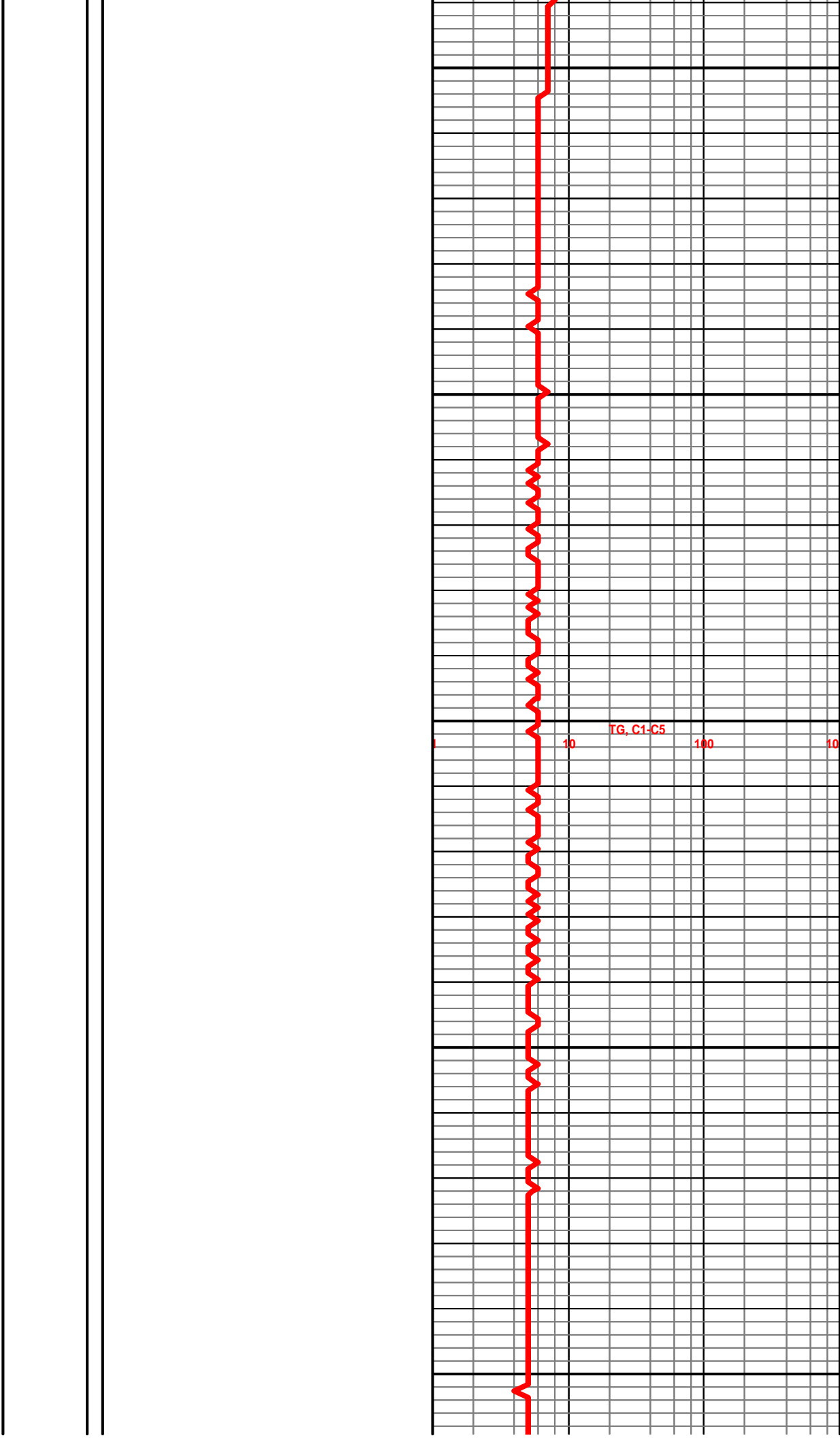
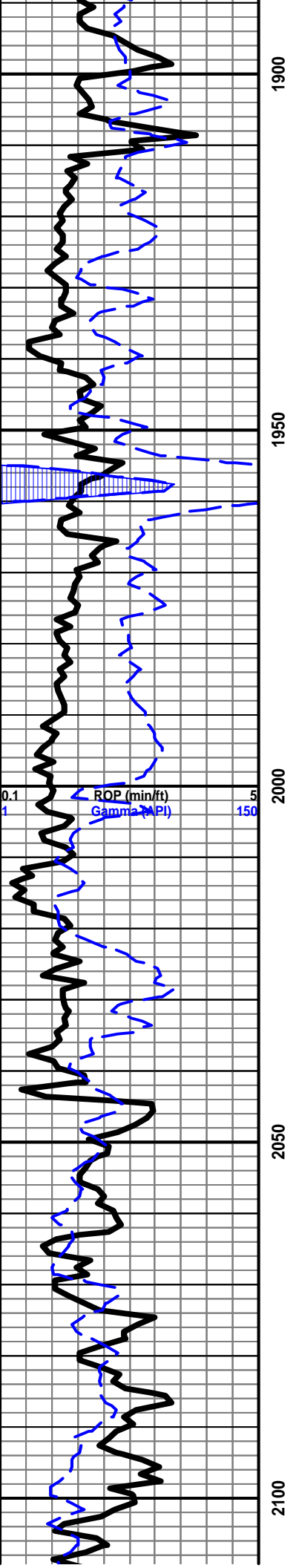
Core
Dst
Dst

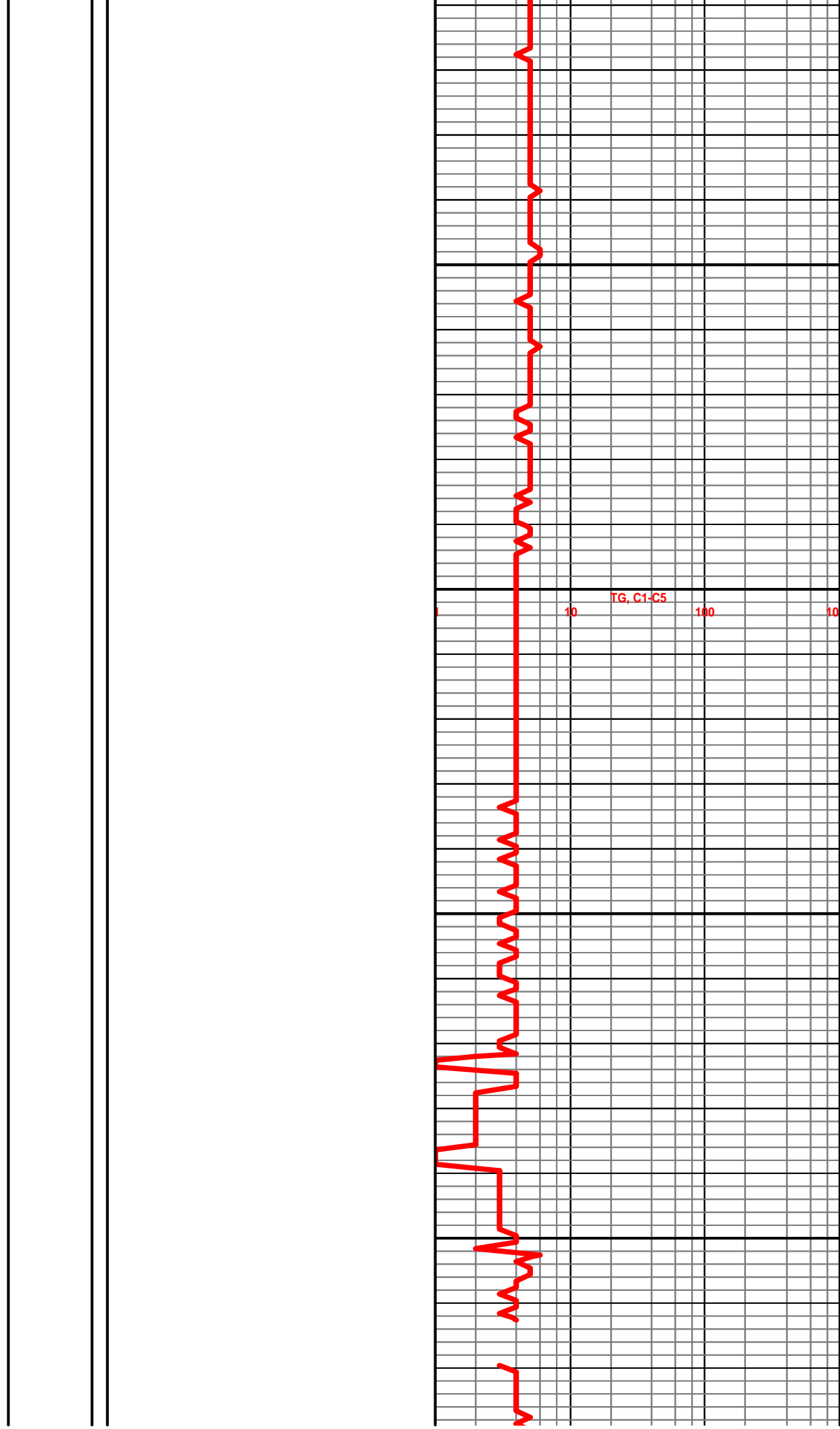
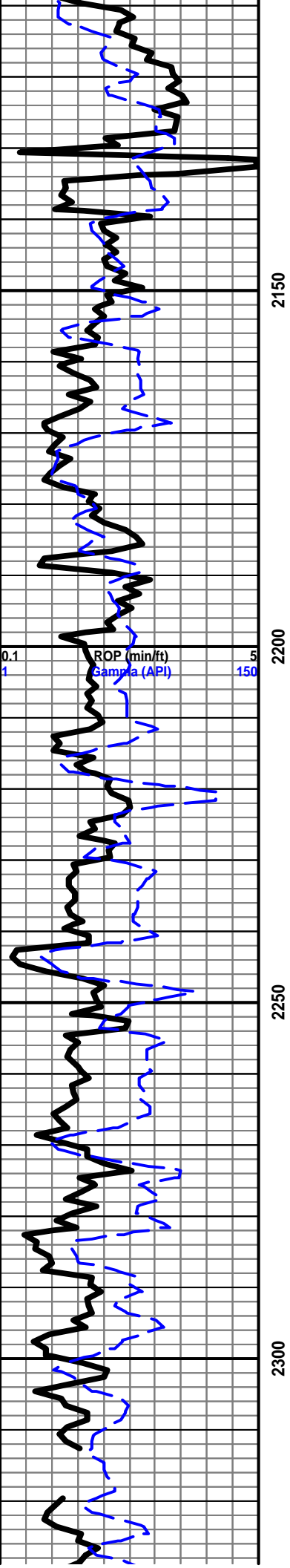
EVENTS

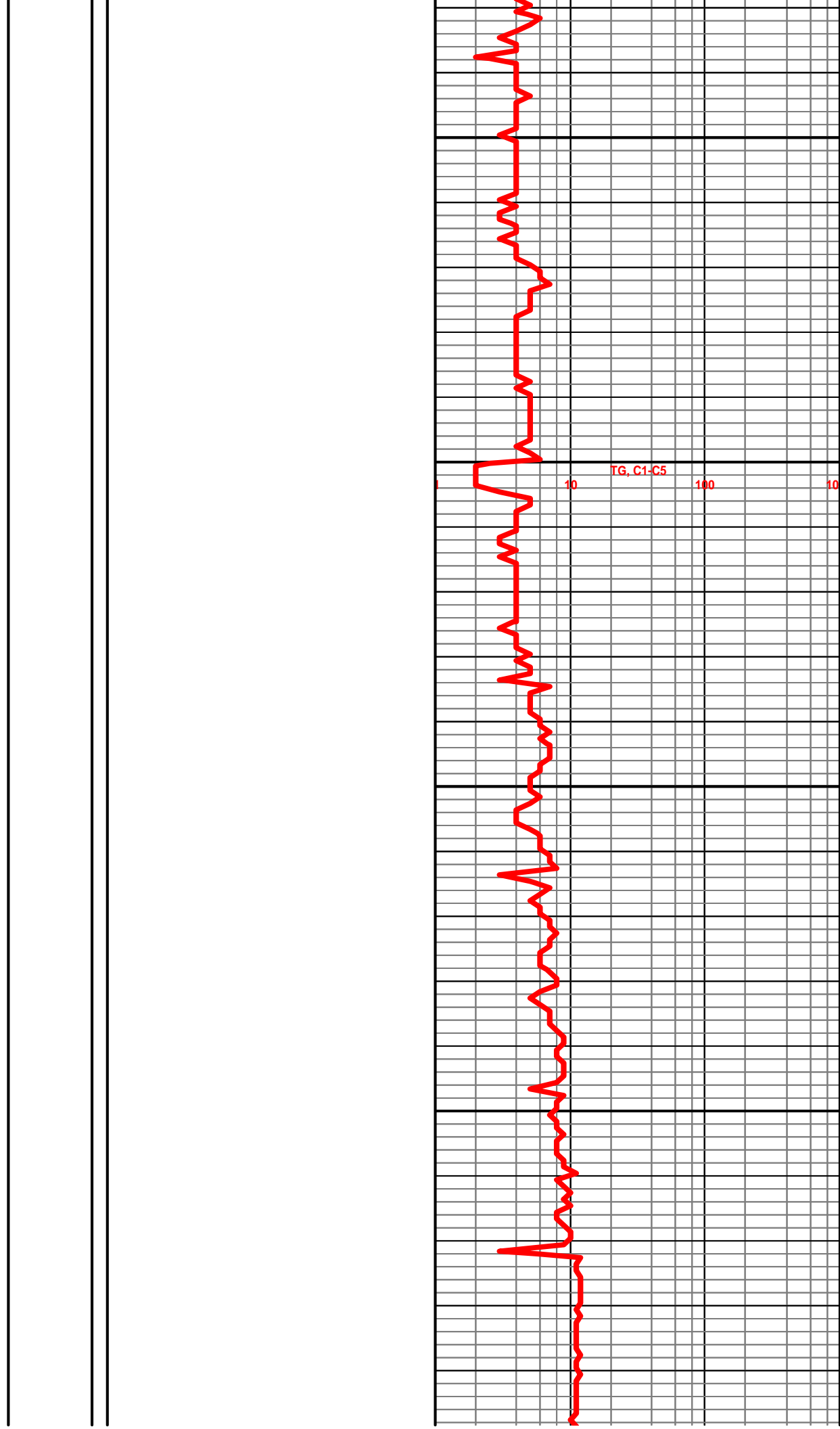
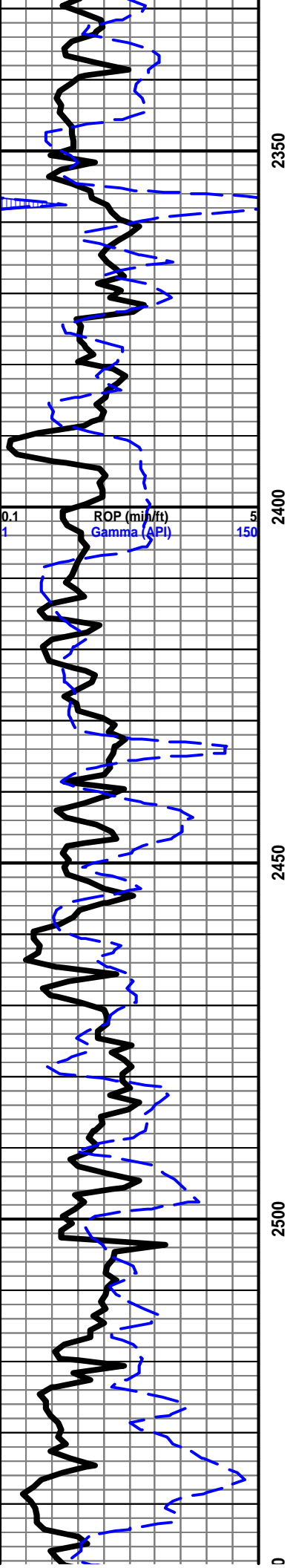


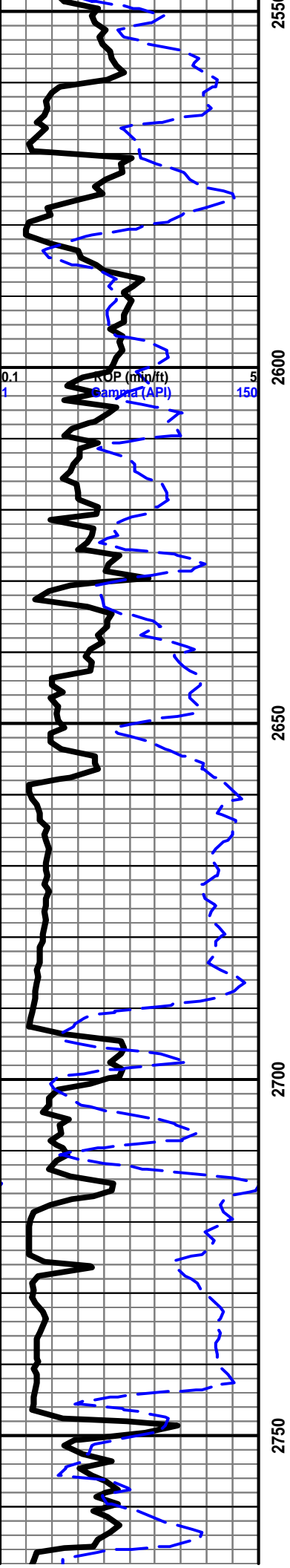
Rft
Sidewall



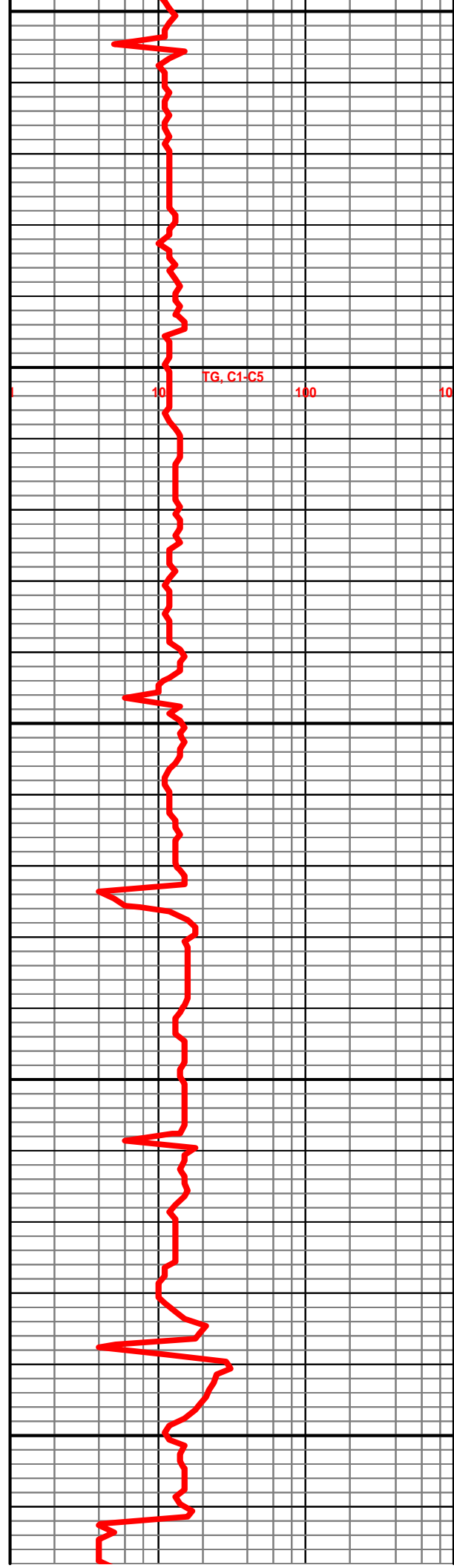


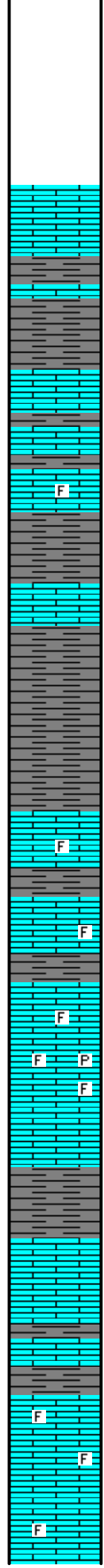
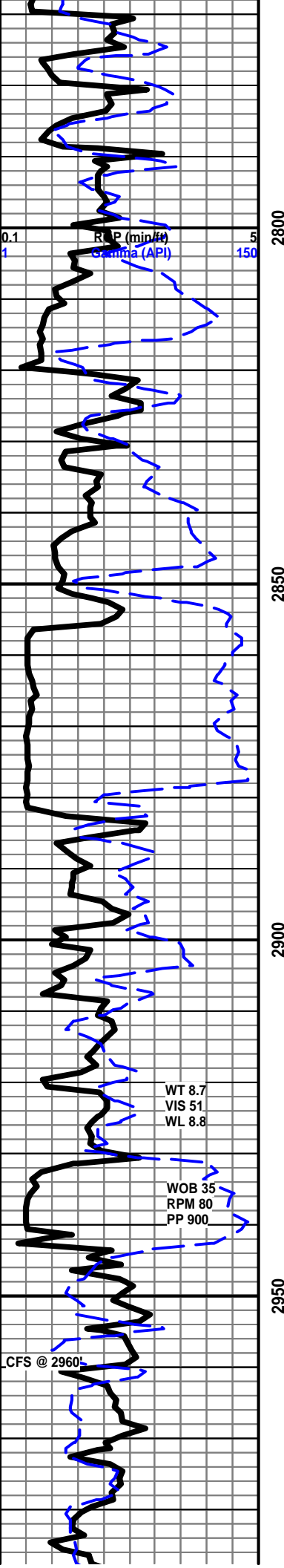






BASE ROOT SH 2693' - 766'





START 24 HR MANNED UNIT @ 8/07/2011

LS- CRM LT GY- HD DNS MOTT, F- MD-XLN IP MOTT, ARG IP, TR FOSS FRGS IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- MD TO DK GY- FRM BLKY IP TO SFT IP

HOWARD 2881' - 954'

LS- OFF WHT LT GY- HD DNS IP TO MD FRM, V/SUCRO MTRX SLI S-CHLKY IP TR FOSS FRGS, TR IMBD SH IP, NO FLO NO VIS POR, NO VIS SHOW

LS- CRM LTN TN - HD DNS TO TR BRITT, MD-F-XLN, RE-XLN MTRX, ABTD IMBD FOSS FRGS THRU, SLI TR IMBD DISS PYR IP, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

SEVERY 2931' - 1004'

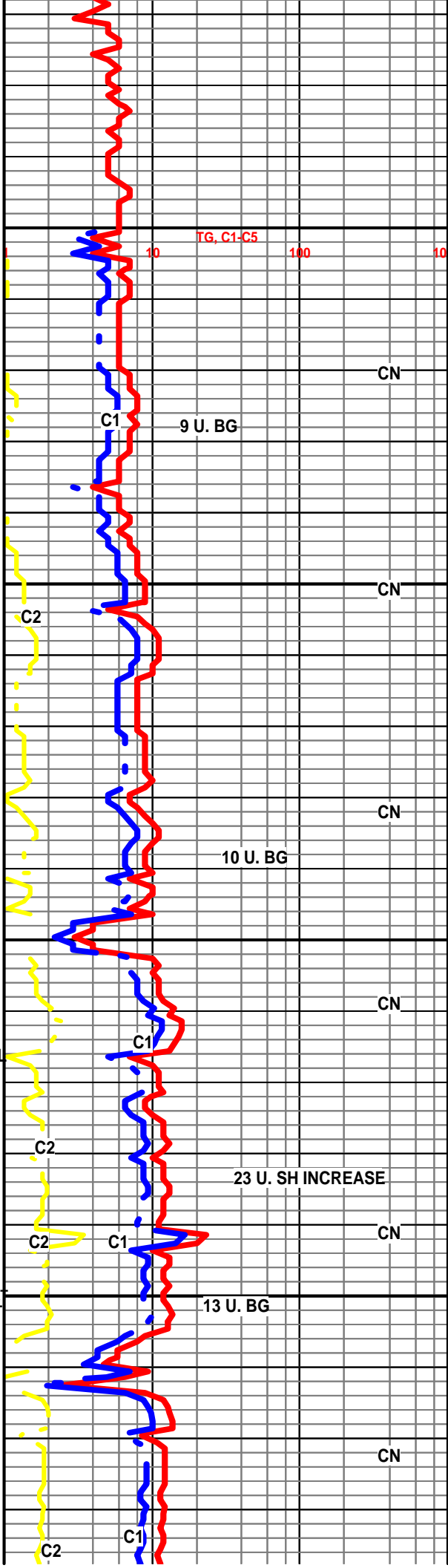
SH- LT TO MD GY- FRM IP W/ GRNY TXT SLI TR IMBD CARB SH

TOPEKA 2941' - 1024'

2943' LS- OFF WHT LT TN TN, TN STN IN 50%, HD TT V/ TT SUCRO MTRX IP W/ OIL STN, TO V/ SFT CHLKY IP, BRIT YEL GLD FLO IN 50%, TR MICO PP POR, POSS SCA MICROVUG POR IP, FR FLSH CUT TO GD SLO STRM CUT IN 50%, FLEETING OIL ODOR

LS- CRM LT TN TN - HD DNS, MD-F-XLN TR FOSS FRGS IP, RE-XLN IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM BFF, HD DNS TO BRITT, MD- F-XLN S-SUCRO TO SLI S-CHLKY IP, TR FOSS FRGS, LT YEL



WT 8.7
VIS 51
WL 8.8

WOB 35
RPM 80
PP 900

CFS @ 2960'

TG, C1-C5

9 U. BG

10 U. BG

23 U. SH INCREASE

13 U. BG

CN

CN

CN

CN

CN

CN

C1

C2

C1

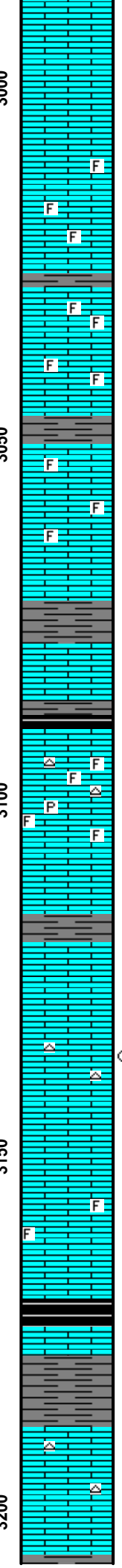
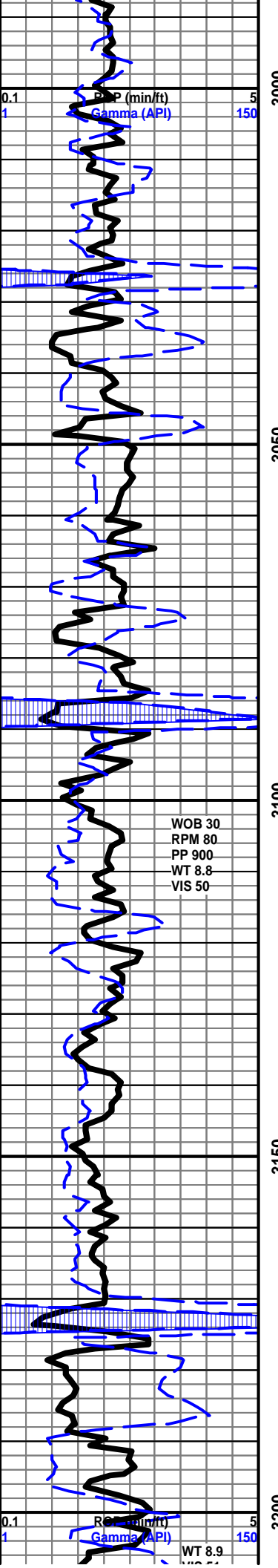
C2

C2

C1

C2

C1



MIN FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TN LT GY- HD DNS , F-V/F-XLN, SLI MOTT, TR IMBD SMLL CAL XLS IP, LT YEL MIN FLO, NO VIS POR, N VIS SHOW

LS- OFF WHT CRM BFF- HD DNS TO BRITT, MD-XLN RE-XLN MTRX, V/ S-CHLKY IP, FOSS FRGS IP, TR IMBD SH ,LT YEL MIN FLO, NO VIS SHO

LS- OFF WHT CRM BFF LT TN - HD DNS TO BRITT, MD-XLN RE-XLN MTRX, V/ S-CHLKY IP, ABDT FOSS FRGS IP, TR IMBD SH ,LT YEL MIN FLO, NO VIS SHO

LeCOMPTON 3049' -1122

LS- CRM LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX, IMBD FOSS FRGS THRU, SM CALC XLS THRU, TR LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

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

SH- GRY TO BLK, FRM TO SFT IP, SMTH BLKY, SLI CALC

LS- CRM LT TN TO TN TR LT GRY, HD TO V/BRITT, MD XLN TO REXLN MTRX, FOSS FRGS THRU, TR SM TO MD CALC XLS, SLI TR S/CHLKY IP, OPQE CHRT, SLI TR DISS PYR, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- LT GRY TO LT GRN, FRM, BLKY, GRNY TXT, SLI TR CARB

LS- OFF WHT CRM LT TN, STAIN IN 20% SCAT, HD DNS TO V/BRITT, MD TO FN XLN TO REXLN MTRX, SLI SUCRO TO S/CHLKY IP, TR IMBD WHT CHRT, V/DLL YEL FLO IP, PR VIS INTR-XLN POR IP, NO VIS CUT TO V/WK GSY CUT

LS- OFF WHT TO CRM TN, HD V/BRITT, MD XLN TO REXLN IP, SLI SUCRO S/CHLKY IP, IMBD FOSS FRGS II NO VIS FLO, NO VIS POR, NO VIS SHOW

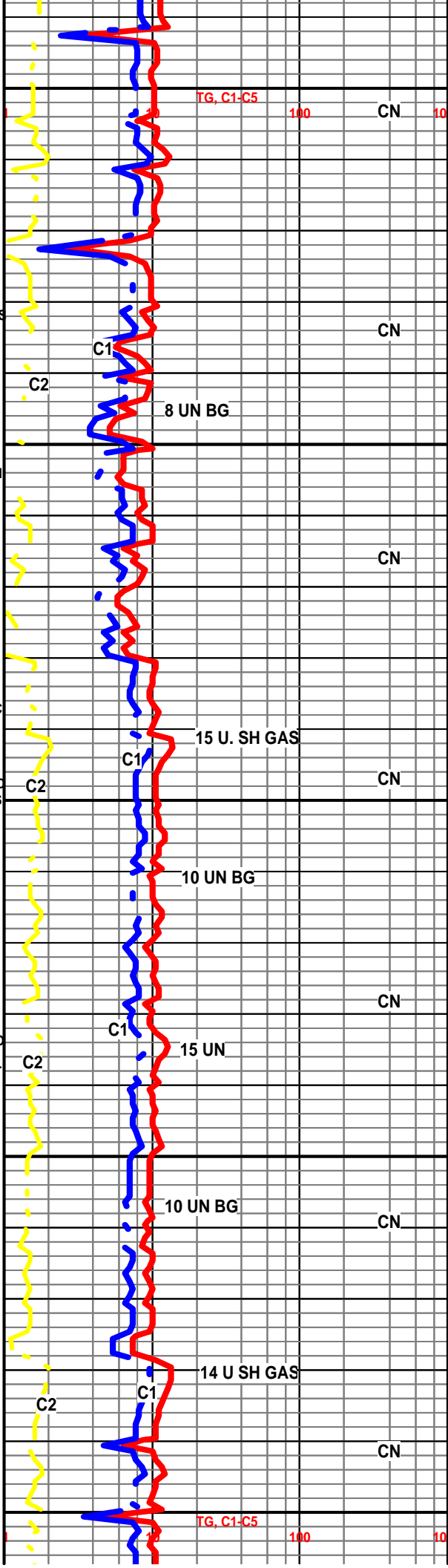
HEEBNER 3171' -1244'

SH- BLK SFT CARB

SH- LT GY TO LT GRN- FRM BLKY SMTH TX

LS- OFF WHT CRM , HD DNS TO TR BRITT, MD-XLN F-XL IP, WHT CHRT, IP, TR S-CHLKY IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

DOUGLAS 3204' - 1277'



SH- LT GY GY- FRM IP TO V/ SFT SLTY TXT IP

LANSING 3227' - 1300'

LS- LT TN TN- HD DNS TO TR BRITT, MD-XLN TO TT SUCRO MTRX, TR FOSS IP, SLI TR WHT CHRT, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

LANSING "C" 3250' - 1323'

LS- CRM OFF WHT- MD HD TO SFT IP, V/ SUCRO S-CHLKY MTRX, IMBD FOSS FRGS IF GRDNG TO ABDT FRM WHT CHLK, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TN- HD DNS MD-F-XLN RE-XLN IP, TR FOSS FRGS IP, TR SMLL CALC XLS IP, WHT OPQUE CHRT, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

LANSING "F" 3295' - 1368'

SH- BLK SFT CARB

3306' 3310 LS- OFF WHT CRM TR TN OIL STN IP, HD TO MD HD, MD-XLN IP, W/ SME IMBD FOSS FRGS, GRDNG TO S-CHLKY TO V/ CHLKY, SLI TR IMBD CALC XLS IP, DLL YEL GLD FLO IN 10%, DLL YEL FLO IN 50%, LT FLSH CUT TO FR SLO STRM CUT IN 20%, NO ODOR

LS- CRM BFF OFF WHT- MD HD TO SFT IP, V/ SUCRO S-CHLKY MTRX, TR ABDT FRM WHT CHLK, TR WHT CHRT, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TN- HD DNS F-V/F-XLN CRYPTO-XLN IP, WHT TN CHRT, NO FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO WHT- MD HD TO SFT, V/ SUCRO S-CHLKY MTRX TO ABDT SFT WHT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW

LANSING "H" 3366' - 1439'

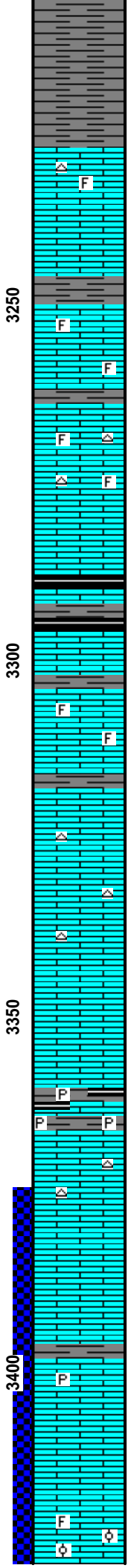
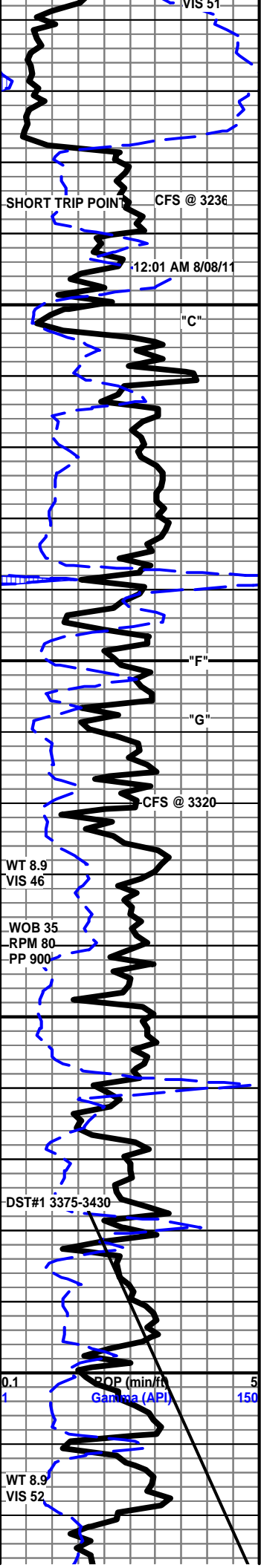
SH- DK GY GY- FRM BLKY V/ CALC W/ ABDT IMBD PYR CLSTRS, BLK CARB IF

LS- OFF WHT LT CRM- HD DNS F-V/F-XLN TO CRYPTO-XLN IP, TR WHT CHERT, LT YEL MIN FLO, NO VIS POR NO VIS SHOW

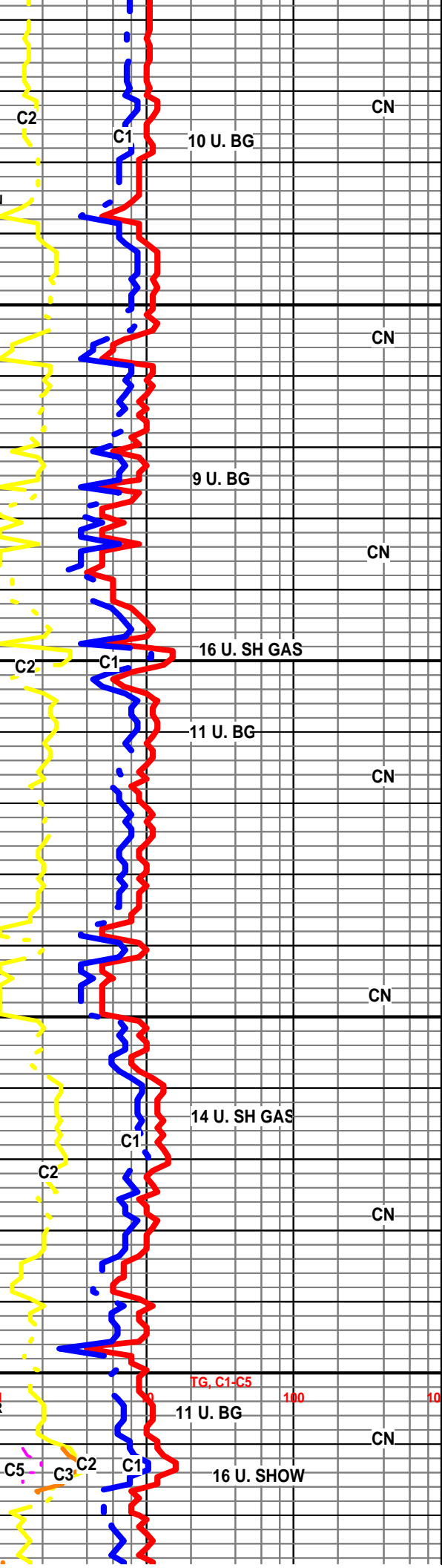
3383-3384 LS- LT TN TN DUE TO STN IN 50% (2 ROCKS) HD DNS V/ TT SUCRO MTRX, TO F-XLN, RE-XLN, SMLL IMBD SMLL LM GRNS IP, DLL YEL GLD FLO IN 50%, DLL Y6EL FLO IN 50%, NO VIS POR, GD FLSH CUT TO GD SL STRM CUT THRU, LT OIL ODOR

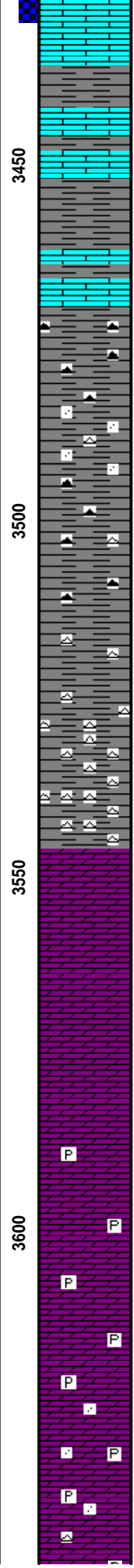
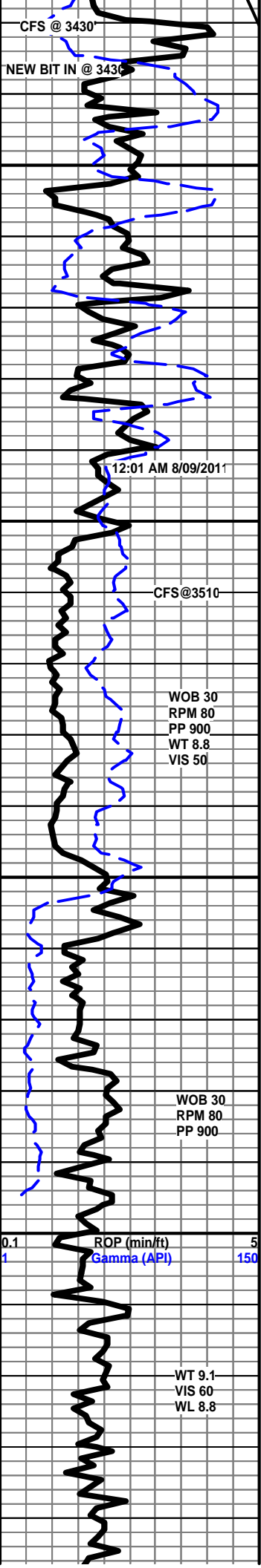
3399-3401 LS- OFF WHT CRM BFF (DK TN DOS IN MICROVUGS) HD DNS TO BRITT IP, F-XLN TO SUCRO S-CHLKY MTRX, ABDT FRM WHT CHLK IMBD THRU, DOS SCAT THRU IN ISLOATED VUGS, TR SCAT DISS PYR IP, DLL YEL GLD FLO IN 70%, SCAT V/ PR MICROVUG POR IP, WK FLSH CUT TO WK SLO STRM CUT, NO ODOR

3409-3411 LS- CRM LT TN TN (TN STN IN 80% (6 ROCKS) HD IP TO V/ BRITT, MD-F-XLN RE-XLN MTRX ABDT IMBD SMLL CALC XLS, TR CALC XLS CLSTRS, DLL YEL GLD FLO IN 80%, DLL YEL FLO IN 20%, FR VIS MICRO VUG POR IP, POSS FRCT POR, EXCELL INST FLSH TO V/ GD SLO STRM CUT, LT OIL ODOR, TN LCH ON DISH



SH- LT GY GY- FRM IP TO V/ SFT SLTY TXT IP
LANSING 3227' - 1300'
LS- LT TN TN- HD DNS TO TR BRITT, MD-XLN TO TT SUCRO MTRX, TR FOSS IP, SLI TR WHT CHRT, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW
LANSING "C" 3250' - 1323'
LS- CRM OFF WHT- MD HD TO SFT IP, V/ SUCRO S-CHLKY MTRX, IMBD FOSS FRGS IF GRDNG TO ABDT FRM WHT CHLK, NO FLO, NO VIS POR, NO VIS SHOW
LS- CRM LT TN TN- HD DNS MD-F-XLN RE-XLN IP, TR FOSS FRGS IP, TR SMLL CALC XLS IP, WHT OPQUE CHRT, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW
LANSING "F" 3295' - 1368'
SH- BLK SFT CARB
3306' 3310 LS- OFF WHT CRM TR TN OIL STN IP, HD TO MD HD, MD-XLN IP, W/ SME IMBD FOSS FRGS, GRDNG TO S-CHLKY TO V/ CHLKY, SLI TR IMBD CALC XLS IP, DLL YEL GLD FLO IN 10%, DLL YEL FLO IN 50%, LT FLSH CUT TO FR SLO STRM CUT IN 20%, NO ODOR
LS- CRM BFF OFF WHT- MD HD TO SFT IP, V/ SUCRO S-CHLKY MTRX, TR ABDT FRM WHT CHLK, TR WHT CHRT, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW
LS- LT TN TN- HD DNS F-V/F-XLN CRYPTO-XLN IP, WHT TN CHRT, NO FLO, NO VIS POR, NO VIS SHOW
LS- OFF WHT TO WHT- MD HD TO SFT, V/ SUCRO S-CHLKY MTRX TO ABDT SFT WHT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW
LANSING "H" 3366' - 1439'
SH- DK GY GY- FRM BLKY V/ CALC W/ ABDT IMBD PYR CLSTRS, BLK CARB IF
LS- OFF WHT LT CRM- HD DNS F-V/F-XLN TO CRYPTO-XLN IP, TR WHT CHERT, LT YEL MIN FLO, NO VIS POR NO VIS SHOW
3383-3384 LS- LT TN TN DUE TO STN IN 50% (2 ROCKS) HD DNS V/ TT SUCRO MTRX, TO F-XLN, RE-XLN, SMLL IMBD SMLL LM GRNS IP, DLL YEL GLD FLO IN 50%, DLL Y6EL FLO IN 50%, NO VIS POR, GD FLSH CUT TO GD SL STRM CUT THRU, LT OIL ODOR
3399-3401 LS- OFF WHT CRM BFF (DK TN DOS IN MICROVUGS) HD DNS TO BRITT IP, F-XLN TO SUCRO S-CHLKY MTRX, ABDT FRM WHT CHLK IMBD THRU, DOS SCAT THRU IN ISLOATED VUGS, TR SCAT DISS PYR IP, DLL YEL GLD FLO IN 70%, SCAT V/ PR MICROVUG POR IP, WK FLSH CUT TO WK SLO STRM CUT, NO ODOR
3409-3411 LS- CRM LT TN TN (TN STN IN 80% (6 ROCKS) HD IP TO V/ BRITT, MD-F-XLN RE-XLN MTRX ABDT IMBD SMLL CALC XLS, TR CALC XLS CLSTRS, DLL YEL GLD FLO IN 80%, DLL YEL FLO IN 20%, FR VIS MICRO VUG POR IP, POSS FRCT POR, EXCELL INST FLSH TO V/ GD SLO STRM CUT, LT OIL ODOR, TN LCH ON DISH





3420-3430- LS- OFF WHT CRM BFF- HD TO BRITT ,
MD-XLN TO SUCRO IP, TR IMBD SMLL OOL IP, TR FOSS
FRGS IP, GRDNG TO ABDT FRM WHT CHLK, NO FLO, NO
VIS POR, NO VIS SHOW

BASE KAN. CITY 3453'- 1526'

SH- LT GRN TO GY- FRM BLKY GRNY TXT
GRDNG TO SFT SLTY

LS- CRM BFF - HD DNS F-V/F-XLN RE-XLN MTRX, FOSS
FRGS IP, TR IMBD SH , NO FLO, NO VIS POR, NO VIS
SHOW

SH- RED DK RED, FRM IP BLKY TO V/ SFT
GGMY W/ IMBD WHT MOTT CHRT THRU

SH- RED DK RED, FRM IP BLKY TO V/ SFT
GGMY W/ IMBD WHT MOTT CHRT THRU, HVY
TR IMBD INDIV. S-RND CLR QURTZ GRNS

SH- RED DK RED, FRM IP BLKY TO V/ SFT
GGMY W/ IMBD WHT MOTT CHRT THRU

SH- RED DK RED- V/ SFT GMMY TXT, W/ ABDT
IMBD WHT TO TN OPQUE MOTT CHRT

SH- RED DK RED, FRM IP BLKY TO V/ SFT
GGMY W/ IMBD WHT MOTT CHRT THRU,

ARBUCKLE 3546' - 1619'

DOLO- OFF WHT TO CRM, HD DNS V/ TT
SUCRO MTRX TO CRS SUCRO MTRX IP . BRIT
YEL MIN FLO THRU, NO VIS POR, NO VIS
SHOW

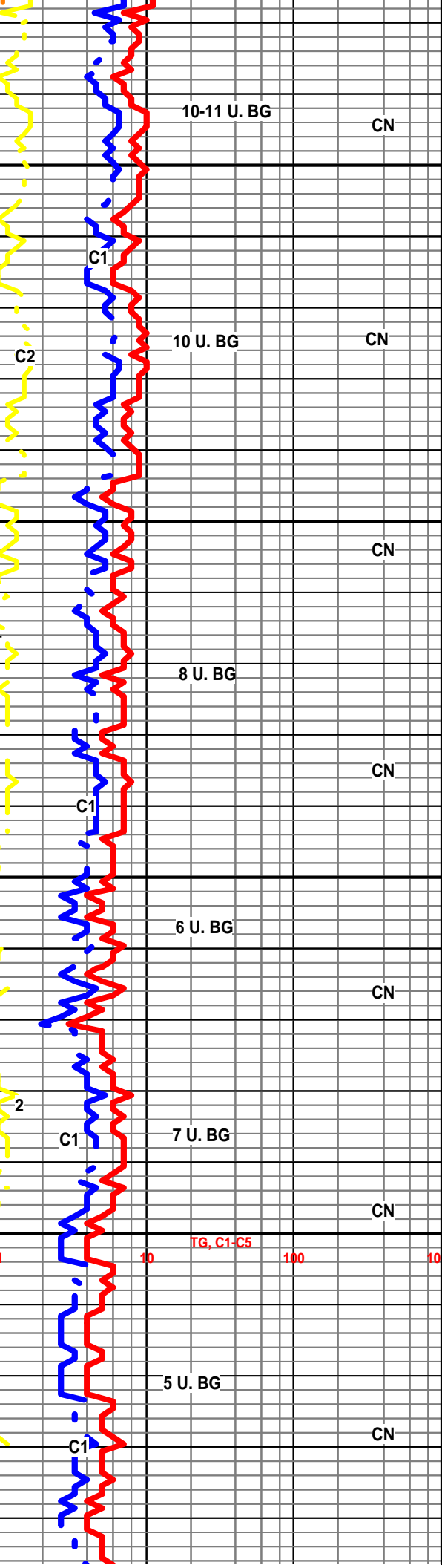
DOLO- OFF WHT TO CRM, HD DNS , F-XLN TO V/ TT
SUCRO MTRX, BRIT YEL MIN FLO THRU, NO VIS POR, NO
VIS SHOW

DOLO- OFF WHT TO WHT- HD DNS TO TR BRITT, F-XLN
TO CRS SUCRO MTRX, ABDT IMBD SMLL ANG DOLO
GRNS IP, TR IMBD PYR DISS, TR SFT WHT CHLK, BRIT
YEL MIN FLO, NO VIS POR, NO VIS SHO

DOLO- OFF WHT TO WHT LT TN - HD DNS TO TR BRITT,
F-XLN TO CRS SUCRO MTRX, ABDT IMBD SMLL ANG
DOLO GRNS IP, TR IMBD PYR DISS, TR SFT WHT CHLK,
BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW

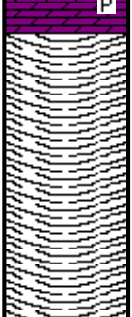
DOLO -OFF WHT TO CRM, HD DNS TO BRITT, F-SUCRO
TO CRS SUCRO MTRX, ABDT IMBD ANG DOLO GRNS
THRU, TR PBBLE SIZE ANG FRSTY QURTZ GRNS IP, TR
PYR CLSTRS, HVY TR ABDT SFT WHT CHLK, BRIT YEL
MIN FLO THRU, PR TO FR VIS INTER-XLN POR NO VIS
SHOW

DOLO -OFF WHT TO CRM, HD DNS TO BRITT, F-SUCRO
TO CRS SUCRO MTRX, ABDT IMBD ANG DOLO GRNS
THRU, TR PBBLE SIZE ANG FRSTY QURTZ GRNS IP, TR
PYR CLSTRS, HVY TR ABDT SFT WHT CHLK, TR IMBD
WHT CHRT, BRIT YEL MIN FLO THRU, PR TO FR VI:



R.T.D. @ 3650'

3650



INTER-XLN POR NO VIS SHOW

TD. @ 8:30 AM 8/9/2011

TOFL' 10: AM

WEATHERFORD /LIBERAL

SAMPLES WILL BE DELIVERED TO KG:

THANK YOU