



KANSAS CORPORATION COMMISSION 1062411
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- 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: _____



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
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	WAGNER TRUST 5-1
Doc ID	1062411

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

August 29, 2011

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

Re: ACO1
API 15-165-21922-00-00
WAGNER TRUST 5-1
NE/4 Sec.01-16S-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: 5/6/2011
 Invoice # 4997

P.O.#:
 Due Date: 6/5/2011
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 3111 W. 10th Street
 Great Bend, KS 67503

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	WAGNER 5-1
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Reference:
 WAGNER TRUST 5-1

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	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 Mat-Material Service Charge	390	\$ 812.05	No				
Calcium Chloride	13	\$ 509.70	Yes				
8 5/8" Centralizer	3	\$ 199.89	Yes				
Flo Seal	90	\$ 187.40	Yes				
Premium Gel (Bentonite)	7	\$ 118.64	Yes				
8 5/8" Top Rubber Plug	1	\$ 110.36	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 93.70	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 8,668.85
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,300.33)

SubTotal for Taxable Items: \$ 5,870.23
 SubTotal for Non-Taxable Items: \$ 690.25

6.30% Rush County Sales Tax

Total: \$ 7,368.52
 Tax: \$ 369.82

Thank You For Your Business!

Amount Due: \$ 7,738.35
Applied Payments:
Balance Due: \$ 7,738.35

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

Federal Tax I.D.# 20-2886107

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

No. 4997

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

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-3-11	1	16	16	Rush	Ks		7:00AM

Lease	Well No.	Location
Wagner trust	#5-1	Gosham, Ks - S to C. L., 1W, S/4th

Contractor	Owner
Discovery Drilling #2	to well

Type Job	To Quality Oilwell Cementing, Inc.	
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	T.D.	Charge To
12 1/4"	991'	Sam Gary Jr & Associates

Csg.	Depth	Street
8 5/8"	990.31'	

Tbg. Size	Depth	City	State

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

Cement Left in Csg.	Shoe Joint	Cement Amount Ordered
42.61'	42.61'	370 sx Common 3% CL

Meas Line	Displace	Cement Amount Ordered
	60 BLS	370 sx Common 3% CL

EQUIPMENT

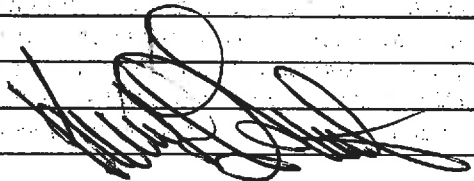
Pumptrk	No.	Cementor	
1		Cisco	
Bulktrk	No.	Driver	
13		Doug	
Bulktrk pu.	No.	Driver	
		Rick	

JOB SERVICES & REMARKS

Remarks:	Calcium
Cement did Circulate	13
Rat Hole	Hulls
	Salt
Mouse Hole	Flowseal
Bottom	90#
Centralizers	Kol-Seal
2, 13, 21	
Baskets	Mud CLR 48
2, 14, 22	
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling
	370
	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	3
Baskets	3
AFU Inserts	
Float Shoe	
Latch Down	
	1 - Baffle plate
	1 - Rubber plug
Pumptrk Charge	Long Surface
Mileage	22

X
Signature 

Tax
Discount
Total Charge



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
5/16/2011	19676

- Acidizing
- Cement
- Tool Rental

BILL TO
Samuel Gary Jr & Associates, Inc. 3111 West 10th Street Suite 101 Great Bend, KS 67530

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#5-1	Wagner Trust	Rush	Ace Well Service	Supply	Development	Squeeze Perfs	Dave

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	40	Miles	5.00	200.00
578D-D	Pump Charge - Deep Squeeze (> 1500 Ft.)	1	Job	1,400.00	1,400.00
290	D-Air	1	Gallon(s)	35.00	35.00T
325	Standard Cement	100	Sacks	12.00	1,200.00T
278	Calcium Chloride	3	Sack(s)	35.00	105.00T
581D	Service Charge Cement	100	Sacks	1.50	150.00
582D	Minimum Drayage Charge	1	Each	250.00	250.00
	Subtotal				3,340.00
	Sales Tax Rush County			6.30%	84.42

DRLG COMP W/O LOE GG

Account	8300-214
Well/Prospect	WAGNER 54
Deck	
AFE	
Approval	CG
Description	

RECEIVED
JUN 02 2011
SAMUEL GARY JR.
& ASSOCIATES, INC.

Thank You For Your Business!

Total

\$3,424.42



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

Well Name: WAGNER TRUST 5-1
Location: SEC 1, 16S, 16W, Rush Co. Kansas
License Number: 15-165-21922
Spud Date: 05/02/2011
Surface Coordinates: 2365' FNL & 1360' FEL
Region: Wildcat
Drilling Completed: 05/08/2011

Bottom Hole Coordinates:

Ground Elevation (ft): 1901' K.B. Elevation (ft): 1909'
Logged Interval (ft): 1700' To: 3741' Total Depth (ft): 3741'
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: 1515 Wykoop, Ste. # 700
Denver, Colo. 80202
Geo: Clayton Camozzi

GEOLOGIST

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

Circulating Report

DST's Report

DST #1, 3158'-3218', 10,60,30,120

IFP-WEAK BLOW THROUGHOUT 1/4"-3/4", ISI-NO BLOW BACK, FF-NO BLOW 6 MIN SUR BLOW DIED 12 MIN, FSI-BLOW BACK, IH-1516, FH-1475, FIF-31, FFF-32, SIF-33, SFF-35, ISI-352, FSI-142, TOTAL REC- 5', 3% OIL, AN 97% MUD

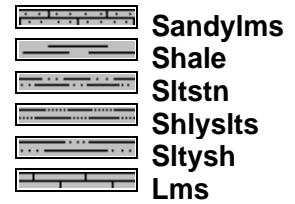
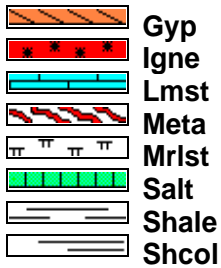
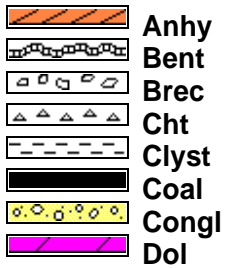
DST #2, 3240'-3270', 10,60,20,60

IFP-WEAK BLOW THROUGHOUT SUR- 1/2", ISI-NO BLOW BACK, FF-NO BLOW 16 MIN SUR BLOW DIED 2 MIN, FSI-BLOW BACK, IH-1551, FH-1482, FIF-26, FFF-34, SIF-42, SFF-45, ISI-746, FSI-708, TOTAL REC- 10', 3% OIL, AN 97% MUD

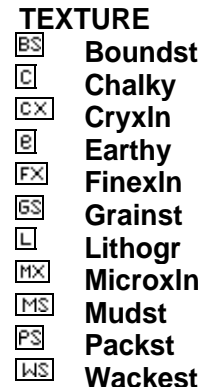
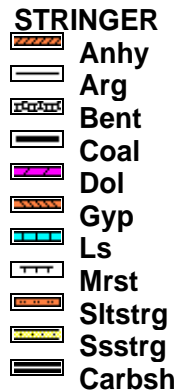
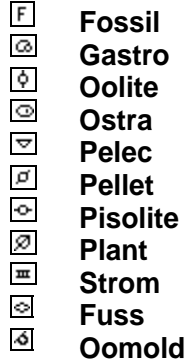
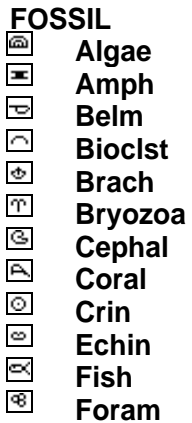
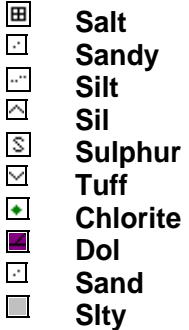
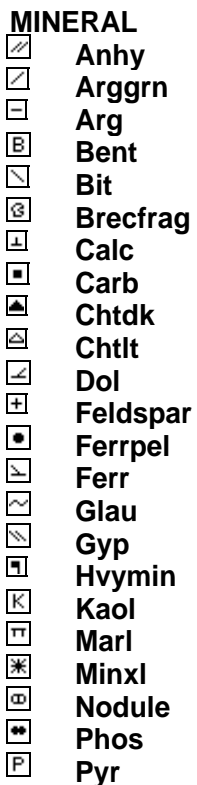
DST #3, 3329'-3381', 10,60,60,180

DST's Report

ROCK TYPES



ACCESSORIES



OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

Angular

OIL SHOWS

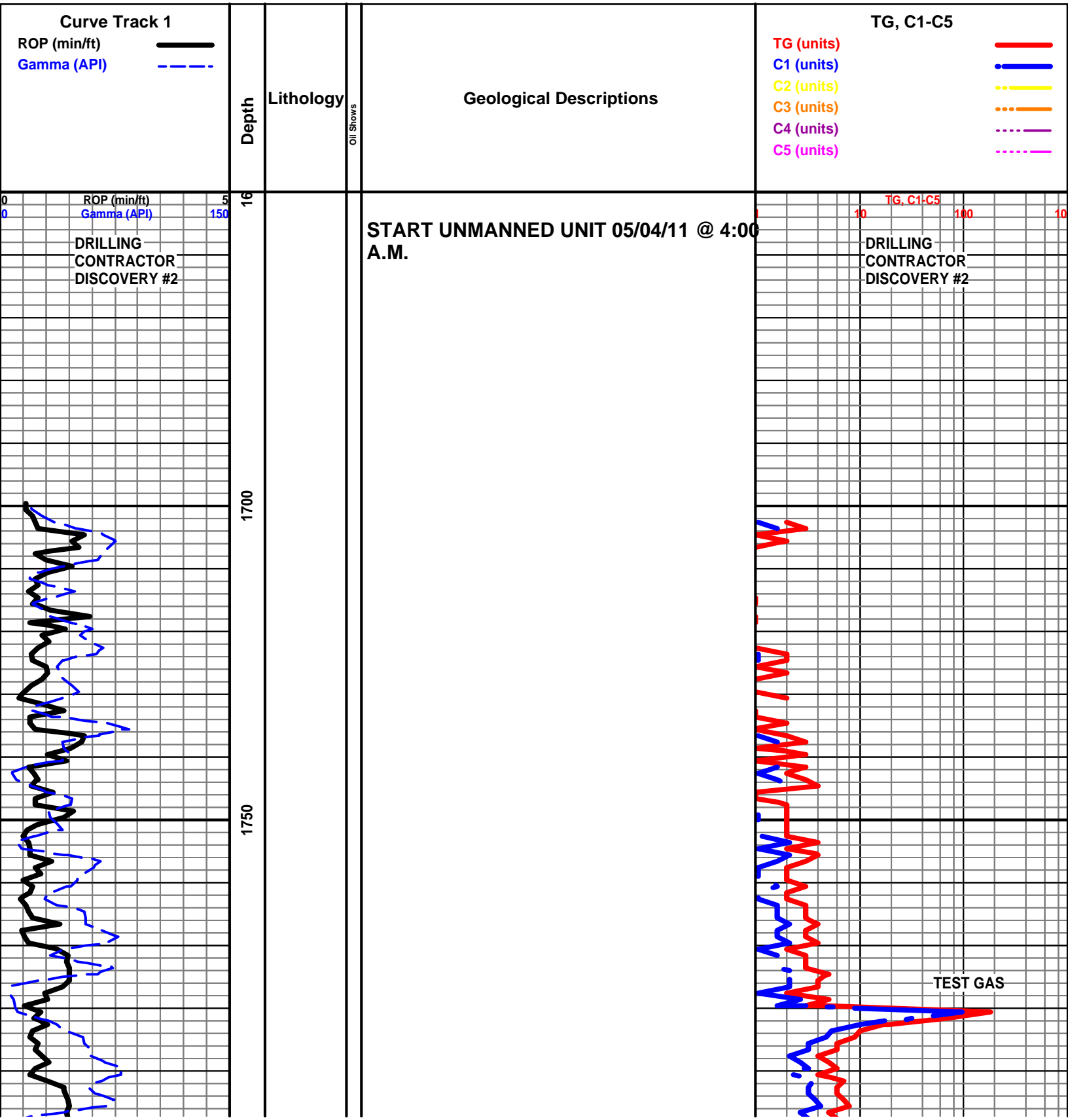
- Even
- Spotted
- Ques
- Dead
- Gas show

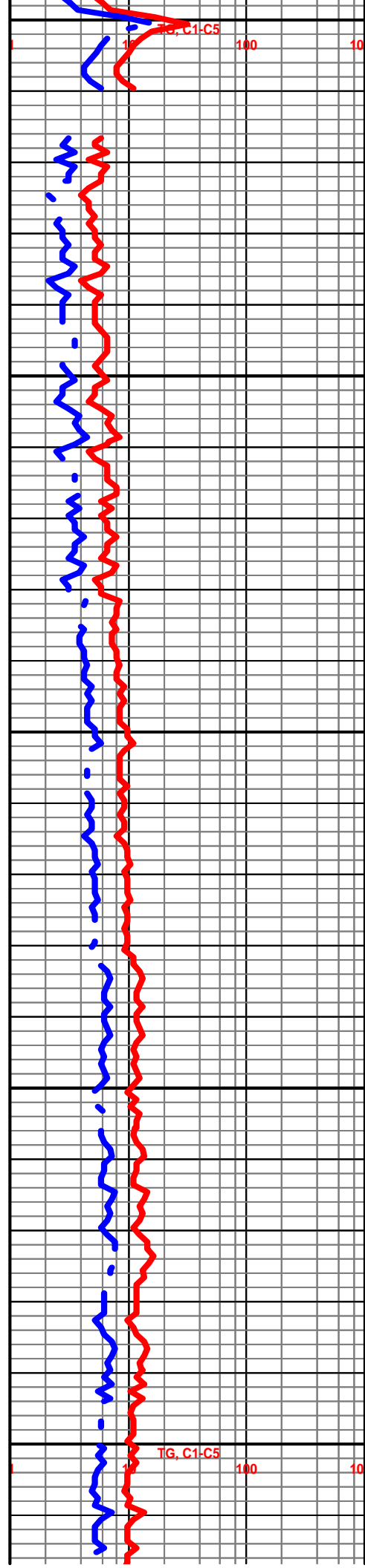
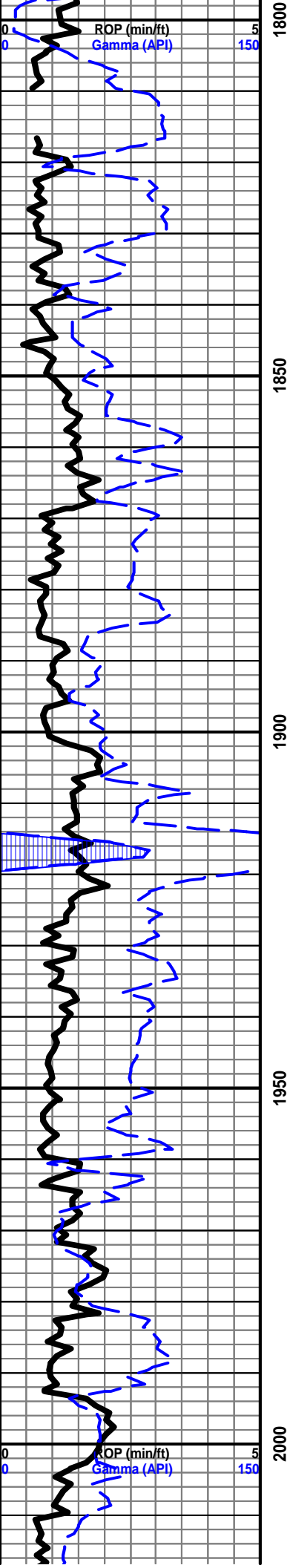
INTERVALS

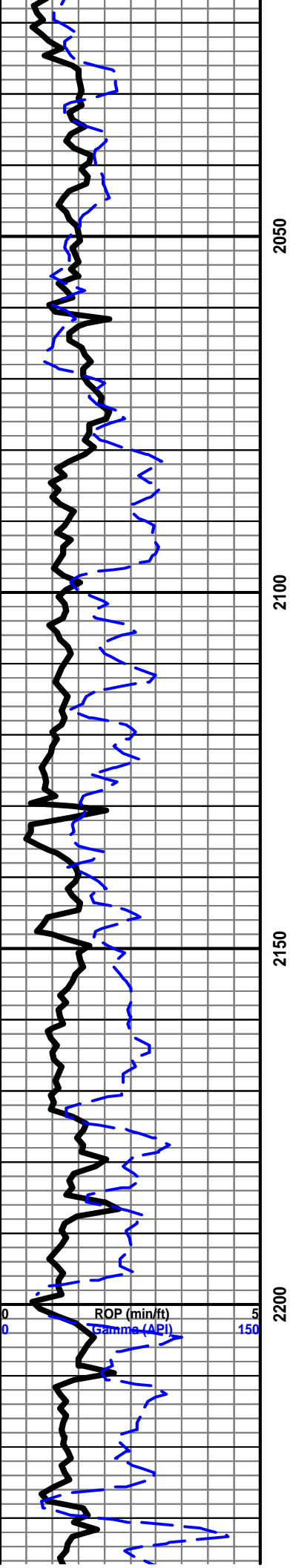
- Core
- Dst
- Dst

EVENTS

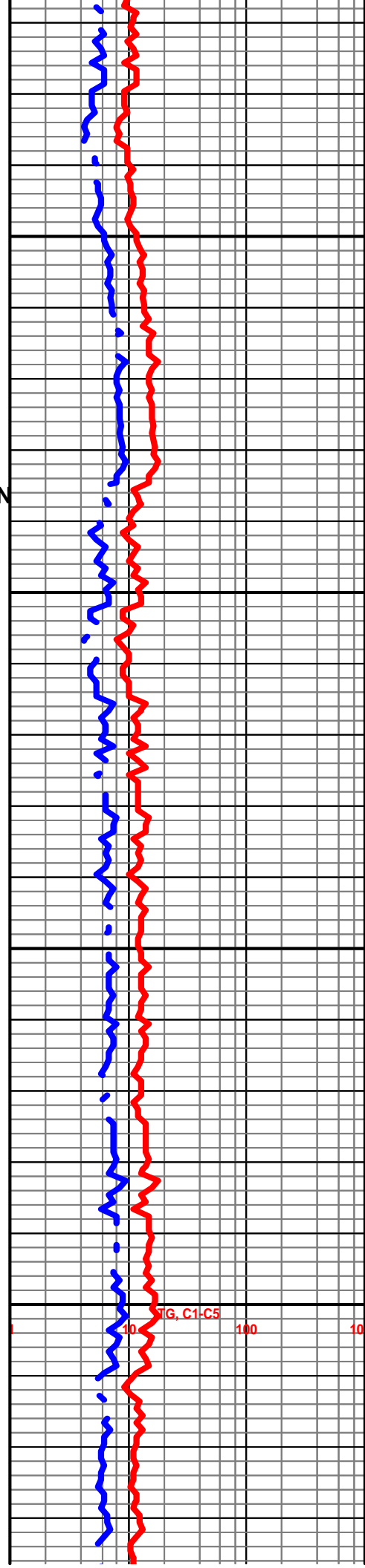
- Rft
- Sidewall

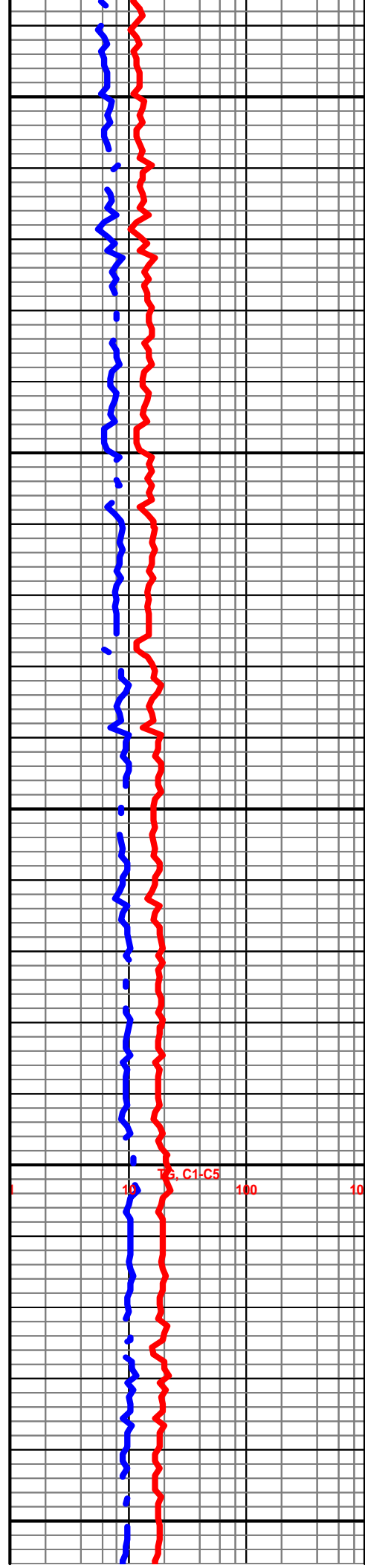
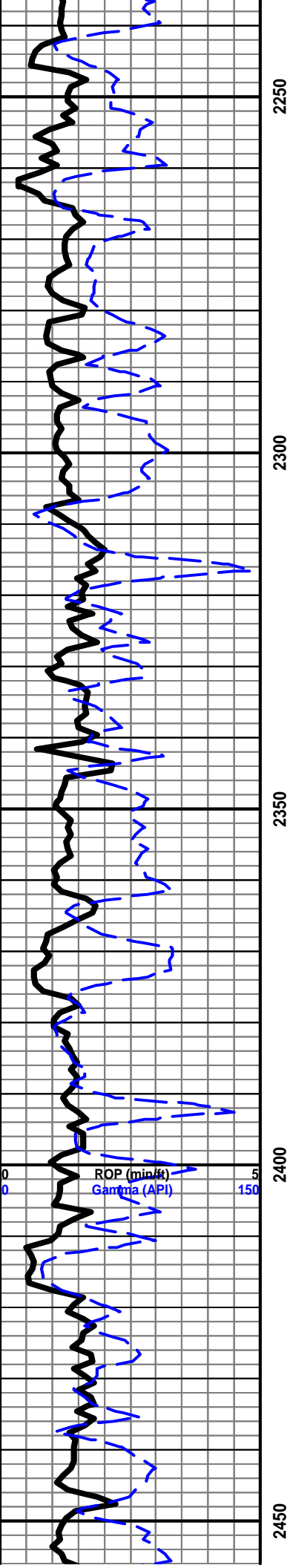


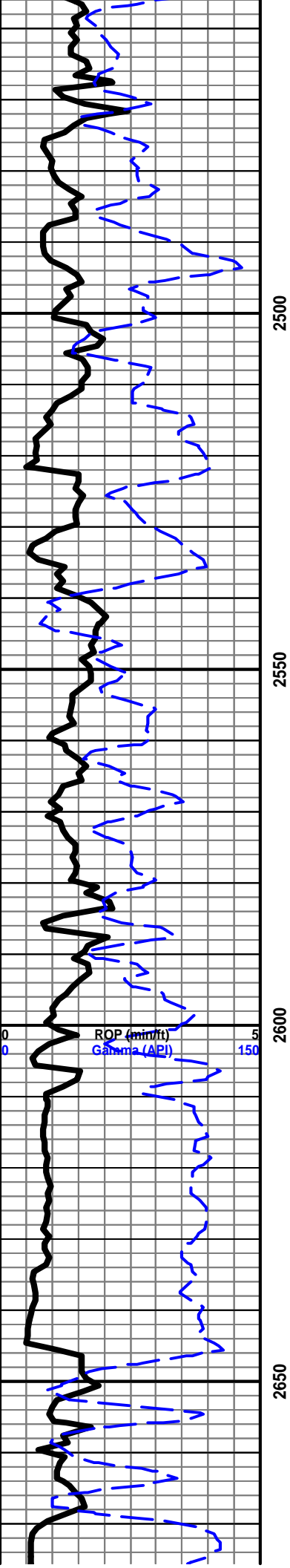




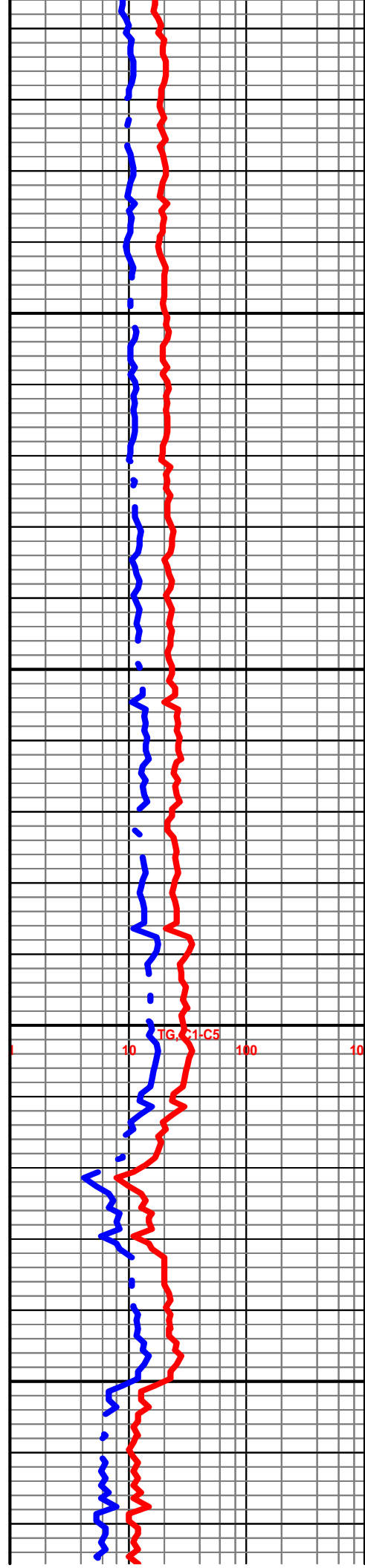
T.O.H @ 1:00 P.M. ON 5/04/2011. HOLE IN PIPE

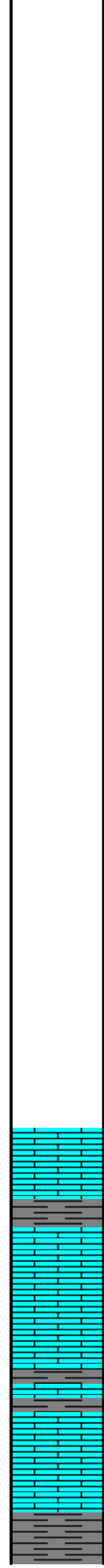
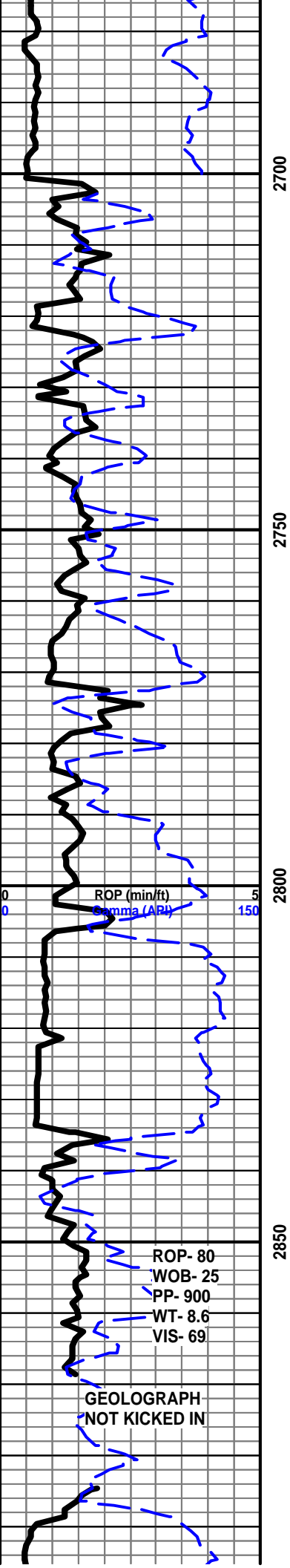






BASE ROOT SHALE @ 2644' -735'





STARTED MANNED UNIT ON 5/05/2011 @ 8:30 A.M.

HOWARD @ 2834' -925'

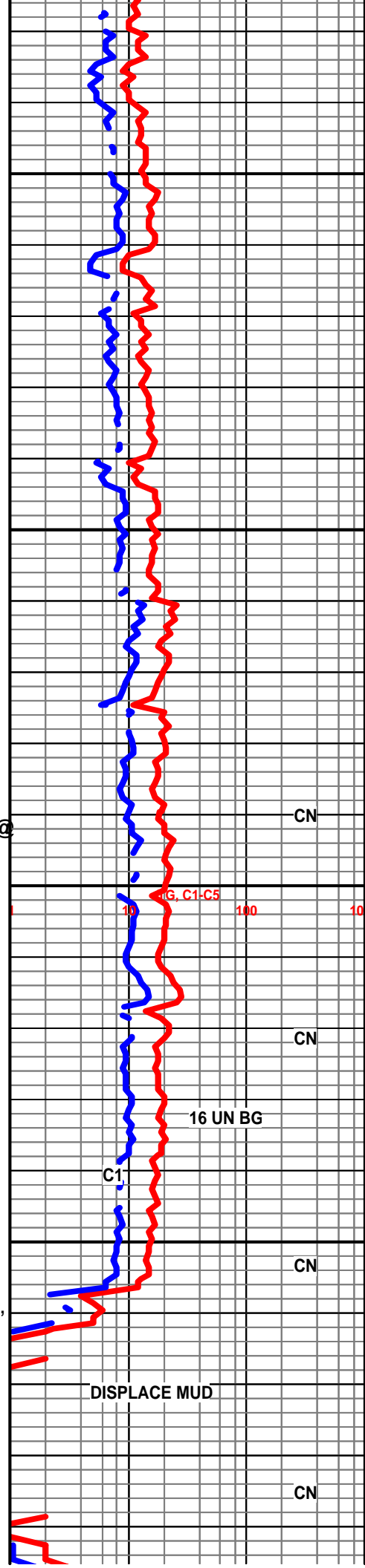
LS- LT GRY TO GRY, TN, HD DNS TO BRITT, MD XLN, REXLN MTRX IP, TR CHLK SCAT IP, IMBD CALC XLS IP, DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW

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

SH- GRY TO DK GRY, FRM, BLKY

SEVERY @ 2888' -979'

SH- GRY TO DK GRY, SFT GUMMY TO TR FRM, BLKY



ROP- 80
WOB- 25
PP- 900
WT- 8.6
VIS- 69

GEOLOGRAPH
NOT KICKED IN

DISPLACE MUD

TOPEKA @ 2897' -988'

LS- GRY, CRM OFF WHT, TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX, SLI TR CHLK, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, SLI TR IMBD SHALE IN 50%, DLL YEL FLO, V/PR TR PP POR IN 10%, NO VIS CUT, NO VI SHOW

LS- GRY, CRM, LT TN, HD DNS TO BRITT, MD XLN, REXLN MTRX, FRM LT GRY TO SFT CHLK SCAT THRU, IMBD FOSS FRAGS IP, TR IMBD CALC XLS IP, IMBD SHALE IN 40%, DLL YEL MIN FLO, V/PR TR TT PP POR IN 5%, NO VIS CUT, NO VIS SHOW

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

LS- CRM OFF WHT TO WHT LT TN, HD DNS TO BRITT, MD XLN, REXLN MTRX THRU, TR SUCRO TXT IP, FRM WHT CHLK SCAT THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS SCAT THRU, IMBD SHALE IN 20%, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- GRY TO DK GRY, FRM, SMTH BLKY

LS- CRM OFF WHT TO WHT LT TN, HD DNS TO BRITT, MD XLN, REXLN MTRX THRU, TR SUCRO TXT IP, FRM WHT CHLK SCAT IP, IMBD CALC XLS SCAT THRU, IMBD SHALE IN 10%, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

LE COMPTON 3004' -1095'

LS- CRM OFF WHT TO WHT LT TN, HD DNS TO BRITT, MD XLN, REXLN MTRX THRU, FRM TO TR SFT WHT CHLK SCAT 40%, IMBD CALC XLS SCAT THRU, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- GRY TO DK GRY, FRM, SMTH BLKY

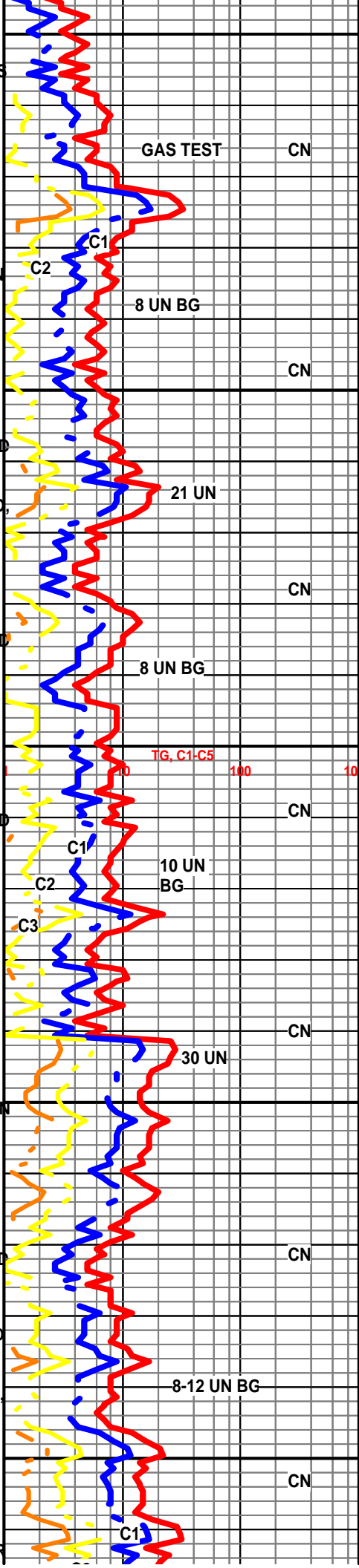
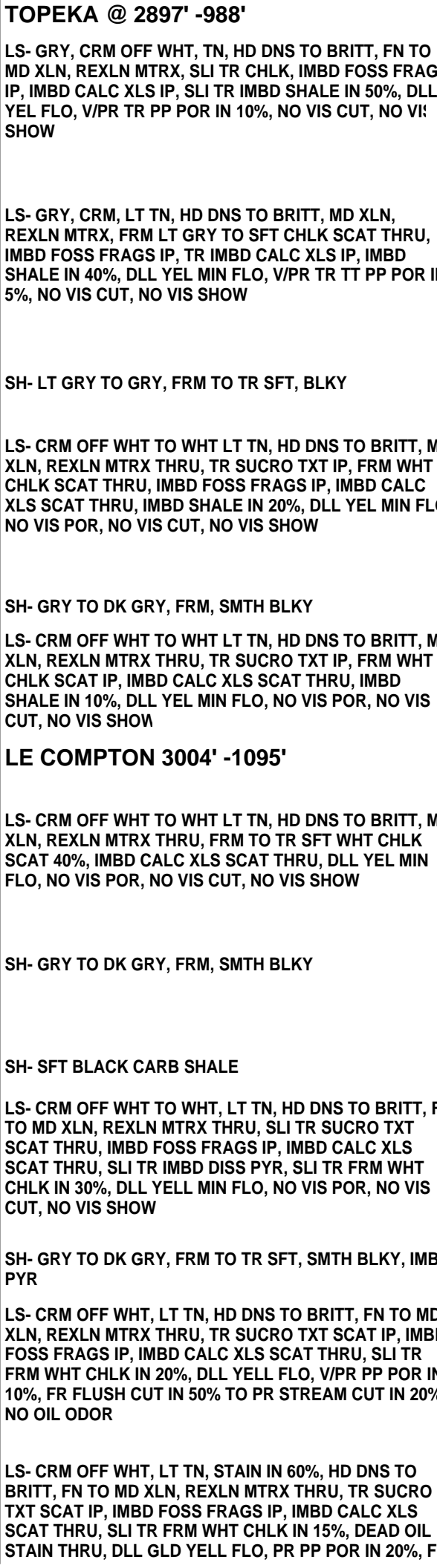
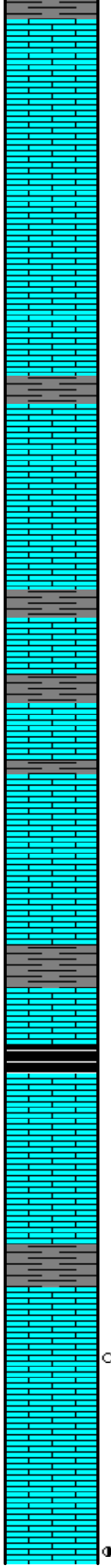
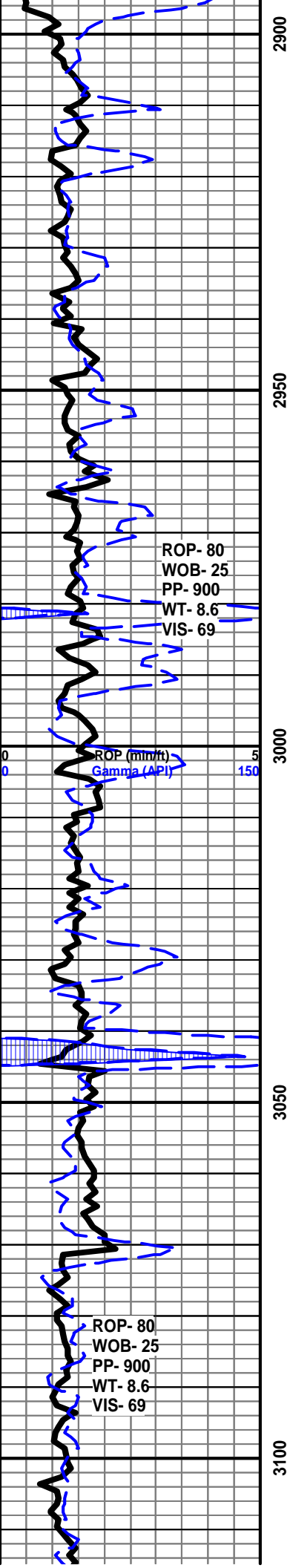
SH- SFT BLACK CARB SHALE

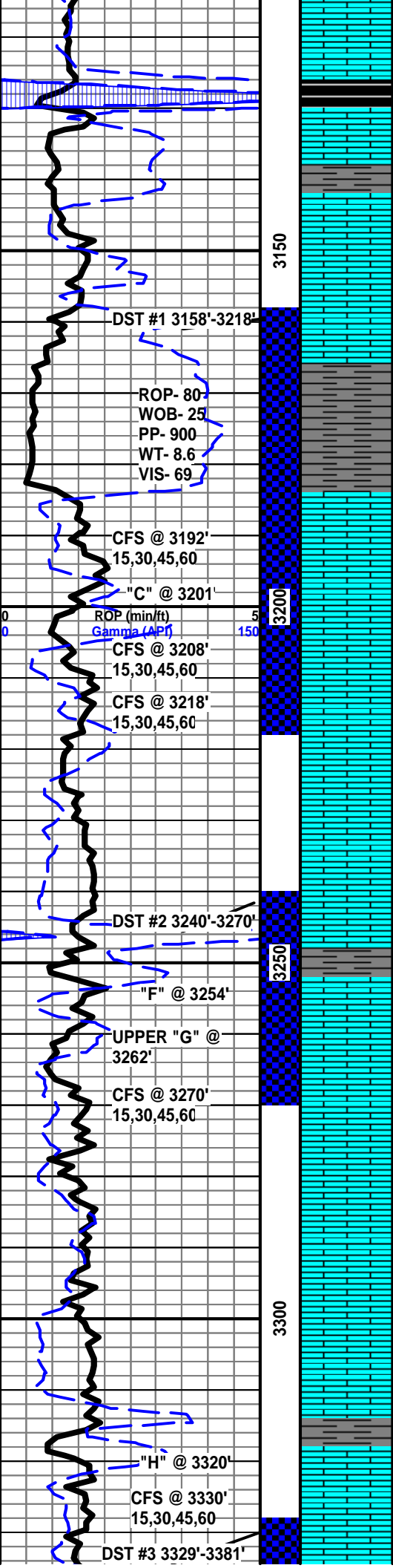
LS- CRM OFF WHT TO WHT, LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, SLI TR SUCRO TXT SCAT THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS SCAT THRU, SLI TR IMBD DISS PYR, SLI TR FRM WHT CHLK IN 30%, DLL YELL MIN FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- GRY TO DK GRY, FRM TO TR SFT, SMTH BLKY, IMBD PYR

LS- CRM OFF WHT, LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, TR SUCRO TXT SCAT IP, IMBD FOSS FRAGS IP, IMBD CALC XLS SCAT THRU, SLI TR FRM WHT CHLK IN 20%, DLL YELL FLO, V/PR PP POR IN 10%, FR FLUSH CUT IN 50% TO PR STREAM CUT IN 20%, NO OIL ODOR

LS- CRM OFF WHT, LT TN, STAIN IN 60%, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, TR SUCRO TXT SCAT IP, IMBD FOSS FRAGS IP, IMBD CALC XLS SCAT THRU, SLI TR FRM WHT CHLK IN 15%, DEAD OIL STAIN THRU, DLL GLD YELL FLO, PR PP POR IN 20%, FR





FLUSH CUT THRU, TO PR WEAK STREAM CUT IN 20%
NO OIL ODOR

SH- SFT BLACK CARB SHALE, CALC THR
HEEBNER @ 3131' -1222'

LS- CRM OFF WHT, LT TN, HD DNS TO BRITT, STAIN IN 50%, FN TO MD XLN, REXLN MTRX THRU, TR SUCRO TX SCAT IP, IMBD FOSS FRAGS IP, IMBD CALC XLS SCAT THRU, SLI TR FRM WHT CHLK IN 30%, DLL GLD YELL FLO, FR PP POR IN 30% TO TR VUG POR IN 20%, GD FLUSH CUT IN 50%, TO GD STREAM CUT IN 40%, PR OIL ODOR, LT BRN STAIN ON DISH

DOUGLAS @ 3166' -1257'
SH- GRY TO DK GRY, FRM, SMTH BLKY TO TR SPLINTY

LANSING @ 3183' -1274'
LS- CRM OFF WHT, LT TN, STAIN ON 60%, HD DNS TO BRITT, FN TO M XLN, REXLN MTRX THRU, TR SUCRO TXT SCAT THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS SCAT THRU, SLI TR DEAD OIL STAIN IN 20%, DLL GLD TO TR BRIT YELL FLO, FR PP POR IN 40% TR FR VUG POR IN 20%, GD FLUSH CUT IN 50% TO GD STRONG MLKY BLUE STREAM CUT IN 50%, PR OIL ODOR, LT BRN STAIN ON DISH

LS- CRM OFF WHT, TN, STAIN IN 40%, HD TT TO BRITT IP, V/FN TO FN XLN, REXLN MTRX THRU, SUCRO TXT IP, IMBD FOSS FRAGS SCAT IP, IMBD CALC XLS SCAT THRU, DEAD OIL STAIN ON 30%, DLL GLD YEL FLO, PR PP POR IN 30%, TR PR VUG POR IN 15%, PR FLUSH CUT IN 20% TO PR WEAK STREAM CUT IN 15%, NO OIL ODOR

LIVE OIL IN 30%, GLD YEL TO BRIT IP FLO, FR VUG POR IN 20%, GD INST FLUSH CUT THRU, GD STRONG STREAM CUT THRU, FR OIL ODOR, BRN STAIN ON DISH

LS- OFF WHT TO WHT, CRM, LT TN, HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS SCAT THRU, SLI TR DISS PYR SCAT IP, DLL YEL FLO, V/PP POR IN 10%, NO VIS CUT, NO VIS SHOW

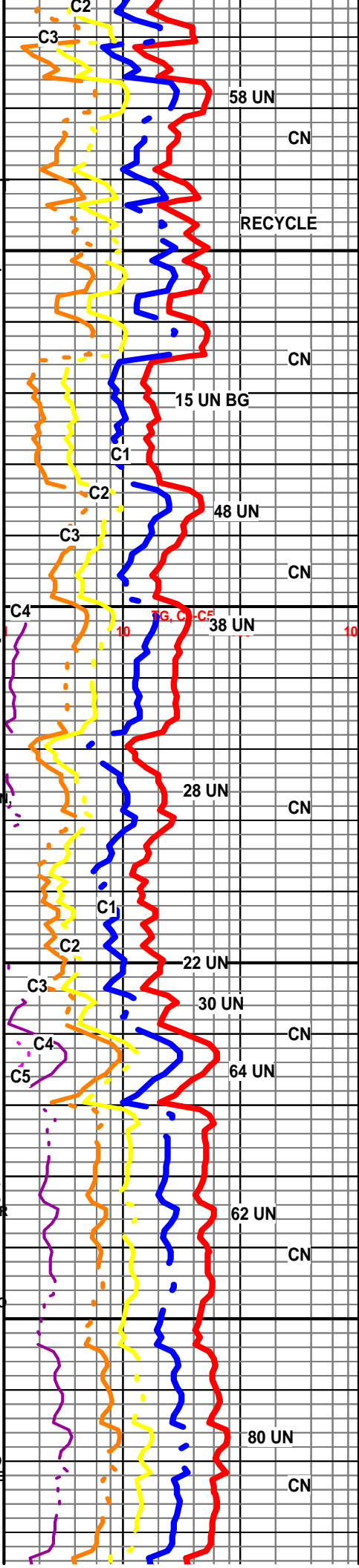
LS- CRM OFF WHT, LT TN TO TN, HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, V/SLI FRM WHT CHLK, SLI TR IMBD OOL SCAT IP, DEAD OIL STAIN IN 20%, LIVE OIL IN 10%, GLD TO BRIT YEL IP FLO, FR PP POR IN 30% TO FR VUG POR IN 15%, FR FLUSH CUT IN 70% TO GD STRONG MLKY BLUE STREAM CUT IN 40%, PR TO FR OIL ODOR, LT BRN STAIN ON DISH

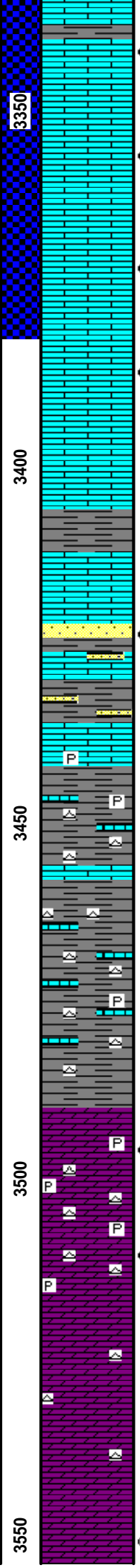
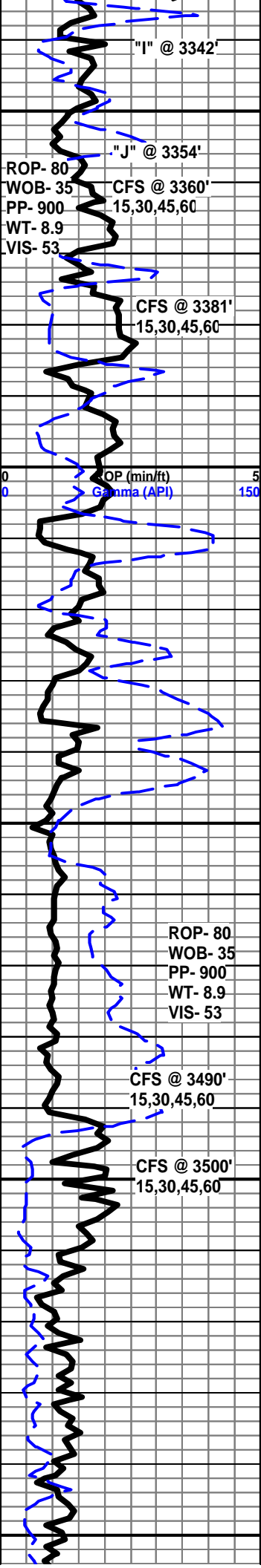
LS- CRM OFF WHT, LT TN TO TN, HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, V/SLI IMBD OOL SCAT IP, DEAD OIL STAIN IN 5%, LIVE OIL IN 25%, GLD TO BRIT YEL IP FLO, FR PP POR IN 40% TO TR GD VUG POR IN 15%, GD INST FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT THRU, FR TO GD OIL ODOR, BRN STAIN ON DISH

LS- CRM OFF WHT, LT TN TO TN, HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, SLI TR FRM FRM CHLK SCAT IP, DEAD OIL STAIN IN 5%, GLD TO BRIT YEL IP FLO, FR PP POR IN 10% TO TR FR VUG POR IN 20%, NO FLUSH CUT TO V/PR WEAK STREAM CUT IN 10%, NO OIL ODOR

LS- CRM OFF WHT, LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, SLI TR FRM TO SFT CHLK IP, DEAD OIL STAIN IN 10%, LIVE OIL IN 15%, GLD TO BRIT YEL IP FLO, FR VUG POR IN 30%, GD FLUSH CUT IN 40% TO G STRONG MLKY BLUE STREAM CUT IN 30%, FR OIL ODOR

LS- CRM OFF WHT, LT TN TO TN, HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, TR IMBD OOL SCAT IP, DEAD OIL STAIN IN 15%, GLD TO BRIT YEL IP FLO FR PP POR IN 25%, FR FLUSH CUT IN 20% TO FR STRONG MLKY BLUE STREAM CUT IN 20%, FR OIL ODOR





LS- CRM OFF WHT, LT TN TO TN, STAIN THRU, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD CALC XLS IP, DEAD OIL STAIN IN 5%, LIVE OIL IN 15%, GLD YEL FLO, FR VUG POR IN 25% TO PR PP POR IN 40%, FR FLUSH CUT IN 30% TO GD STRONG MLKY BLUE STREAM CUT IN 15%, PR OIL ODOR

LS- CRM OFF WHT, LT TN TO TN, STAIN THRU, HD DNS TO BRITT TO TR FRI, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, DEAD OIL STAIN IN 10%, LIVE OIL IN 50%, GLD TO BRIT YEL FLO, FR VUG POR IN 50%, GD INST FLUSH CUT IN THRU TO GD STRONG MLKY BLUE STREAM CUT IN 60%, GD OIL ODOR, BRN STAIN ON DISH

LS- CRM OFF WHT, LT TN TO TN, STAIN THRU, HD TT TO TR FRI, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, S TR FRM WHT CHLK SCAT THRU, DEAD OIL STAIN IN 5%, LIVE OIL IN 20%, GLD TO BRIT YEL FLO, FR VUG POR IN 15% TO FR PP POR IN 30%, GD INST FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 30%, GD OIL ODOR, BRN STAIN ON DISH

LS- CRM OFF WHT, LT TN TO TN, STAIN THRU, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, S TR FRM WHT CHLK SCAT THRU, , LIVE OIL IN 10%, GLD TO BRIT YEL FLO, FR VUG POR IN 5% TO FR PP POR IN 10%, FR INST FLUSH CUT IN 30% TO FR STRONG MLKY BLUE STREAM CUT IN 30%, FR OIL ODOR

BASE KANSAS CITY @ 3406' -1497'

SH- GRY TO DK GRY, FRM TO SFT IP, SPLINTY

SS- LT FRSTY CLR, TN, DK OIL STAIN IN 15%, HD TT TO TR FRI IP, FRSTY GRNS TO TN GRNS, FN GRN, S/RND TO S/ANG, PR TO FR SRT, V/CALC TO LMY CMNT, V/DLL YEL GLD FLO IN 30%, TR PR INTR-XLN POR, GD FLUSI CUT TO GD SLOW STREAM MLKY BLUE CUT IN 50%, NO OIL ODOR

LS- CRM OFF WHT, LT TN TO TN, STAIN THRU, HD TT TO TR FRI, FN XLN, REXLN MTRX THRU, TR CHRT SCAT THRU, TR PYR SCAT IP, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, SLI TR FRM WHT CHLK SCAT THRU, LIVE OIL IN 15%, GLD TO BRIT YEL FLO, PR VUG POR IN 15% TO FR PP POR IN 40%,

SH- GRY TO REDISH BRN, FRM TO GUMMY, BLKY, CHRT SCAT THRU, IMBD DISS PYR SCAT IP, V/LIMY

SH- GRY TO REDISH BRN, FRM TO GUMMY, BLKY, CHRT SCAT THRU, IMBD DISS PYR SCAT IP

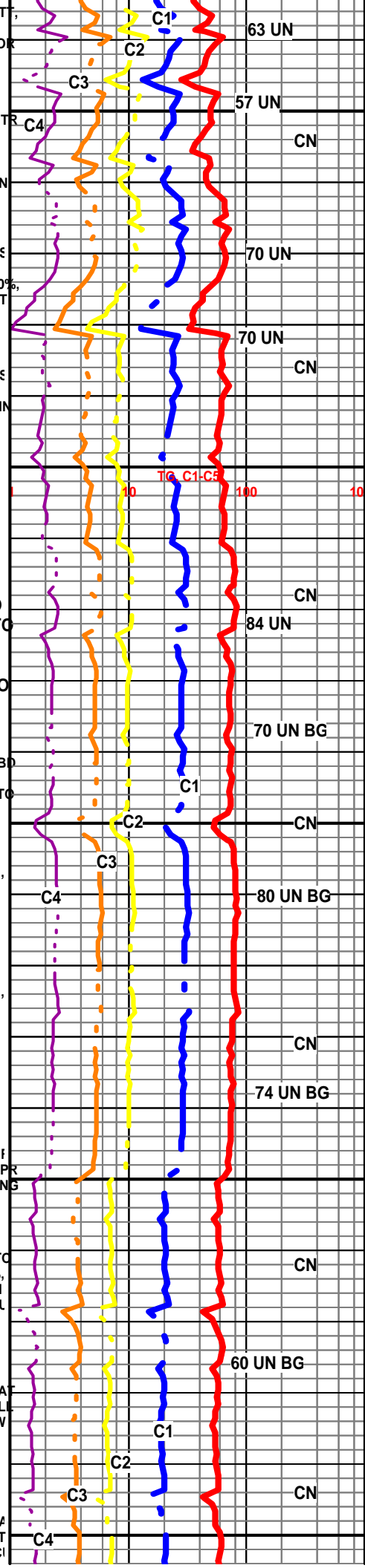
ARBUCKLE @ 3491' - 1582'

DOL- LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, IMBD ABDT SM TO MD ANG DOL GRNS, V/SLI TR FRM WHT CHLK, V/SLI TR DISS PYR IN 10%, LIVE OIL ON 30%, DLL GLD FLO TH TO SCAT BRIT GLD FLO IN 20%, FR TO GD INTR-XLN POR IN 50% TO PR INTR-XLN POR IN 30%, EXCL INST FLUSH CUT THRU, TO EXCL STRONG MLKY BLUE CUT IN 30%, FR OIL ODOR, BRN STAIN ON DISH

DOL- LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD ABDT SM TO MD ANG DOL GRNS, CHRT SCAT THRU, TR FRM TO SFT REDISH WHT CHLK, V/SLI TR DISS PYR IN 10%, LIVE OIL ON 15%, DLL GLD FLO THRU, FR INTR-XLN POR IN 30% TO PR TR VUG POR IN 10%, EXCL INST FLUSH CUT THRU, TO EXCL STRONG MLKY BLUE CL IN 60%, FR OIL ODOR, BRN STAIN ON DISH

DOL- LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, IMBD ABDT SM ANG DOL GRNS, IMBD FN TO MD DOL XLS SCAT THRU, TR YELLISH WHT CHRT IP, TR FRM WHT CHLK SCAT THRU, DLL GLD FLO THRU, FR INTR-XLN POR IN 30%, NO VIS CUT, NO VIS SHOW

DOL- OFF WHT TO LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, MD ANG DOL GRNS SCAT THRU, IMBD MD DOL XLS SCAT THRU, MD QUARTZITE GRNS SCAT THRU IN 5%, SLI TR YELLISH WHT CHRT IP, DLL GLD FLO THRU, FR INTR-XLN POR IN 30%, PR FLUSH C



IN 10%, NO STREAM CUT, NO OIL ODO

DOL- OFF WHT TO LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, MD ANG DOL GRNS SCAT THRU, IMBD MD DOL XLS SCA THRU, DLL GLD FLO THRU, FR INTR-XLN POR IN 30%, PR FLUSH CUT IN 20% TO PR WEAK STREAM CUT IN 10%

DOL- OFF WHT TO WHT TO LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, IMBD MD ANG DOL GRNS, IMBD MD DOL XLS SCAT THRU, MD QUARTZITE GRNS SCAT THRU IN 10%, DLL GLD FLO THRU, FR INTR-XLN POR IN 20%, NO VIS CUT, NO VIS SHOW

DOL- OFF WHT TO WHT TO LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, IMBD MD ANG DOL GRNS, IMBD MD DOL XLS SCAT THRU, SLI TR PYR SCAT THRU, DLL GLD FLO THRU, FR INTR-XI POR IN 20%, NO VIS CUT, NO VIS SHOW

DOL- OFF WHT TO WHT TO LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, SUCRO TXT THRU, IMBD MD DOL GRNS, IMBD MD DOL XLS SCAT THRU, SLI TR SFT WHT CHLK, DLL GLD FLO THRU, FR INTR-XLN POR IN 20%, NO VIS CUT, NO VIS SHOW

DOL- OFF WHT TO WHT TO LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, SUCRO TXT THRU, IMBD MD DOL GRNS, TR FLDSPR SCAT THRU, IMBD MD DOL XLS SCAT THRU, SLI TR SFT WHT CHLK, DLL GLD FLO THRU, FR INTR-XLN POR IN 20%, NO VIS CUT, NO VIS SHOW

DOL- OFF WHT TO WHT, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, IMBD FN DOL GRNS, TR FLDSPR SCAT THRU, IMBD MD DOL XLS SCAT THRU, SLI TR SFT WHT CHLK, DLL GLD FLO THRU, PR INTR-XLN POR IN 10%, NO VIS CUT, NO VIS SHOW

DOL- OFF WHT TO WHT, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, IMBD FN DOL GRNS, TR FLDSPR SCAT THRU, IMBD MD DOL XLS SCAT THRU, SLI TR SFT WHT CHLK, DLL GLD FLO THRU, PR INTR-XLN POR IN 10%, NO VIS CUT, NO VIS SHOW

ROP- 80
WOB- 35
PP- 800
WT- 9.0
VIS- 60

ROP (min/ft)

Gamma (API)

5

150

3600

3650

3700

3750

ROP- 80
WOB- 35
PP- 800
WT- 9.0
VIS- 60

LOST CIRCULATION @ 3741'

RTD 3741' @ 2:30 PM 05/08/2011

LOGS BY WEATHERFORD

LIBERAL KANSAS

CN

70 UN

CN

TG, C1-C5

10

100

C1

C2

C3

C4

CN

60-65 UN BG

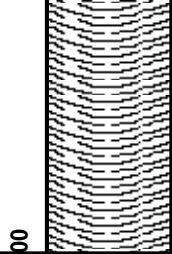
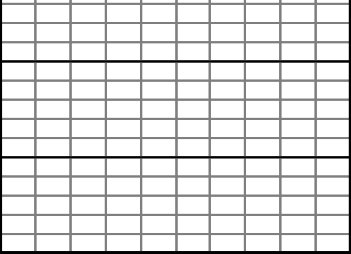
CN

CN

55 UN BG

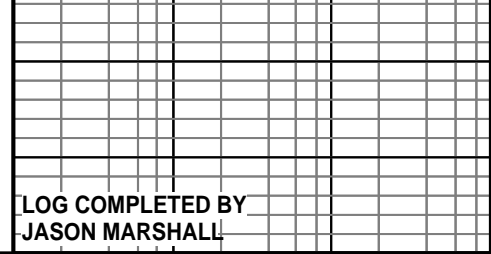
CN

SAMPLES WILL BE DELIVERED TO THE KGS



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THANK YOU FOR CHOOSING EARTHTECH



LOG COMPLETED BY
JASON MARSHALL



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. and Associates, Inc.**

1515 Wynkoop St. Ste 700
Denver, CO
80202

ATTN: Clayton Camozzi

1-16-16 Rush, Ks

Wagner Trust 5-1

Start Date: 2011.05.06 @ 04:32:34

End Date: 2011.05.06 @ 11:38:34

Job Ticket #: 42562 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

Samuel Gary Jr. and Associates, Inc.

Wagner Trust 5-1

1515 Wynkoop St. Ste 700
Denver, CO
80202
ATTN: Clayton Camozzi

1-16-16 Rush, Ks

Job Ticket: 42562

DST#: 1

Test Start: 2011.05.06 @ 04:32:34

GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:24:04

Time Test Ended: 11:38:34

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3158.00 ft (KB) To 3218.00 ft (KB) (TVD)

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3218.00 ft (KB) (TVD)

1901.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press @ RunDepth: 34.54 psig @ 3162.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.06 End Date: 2011.05.06

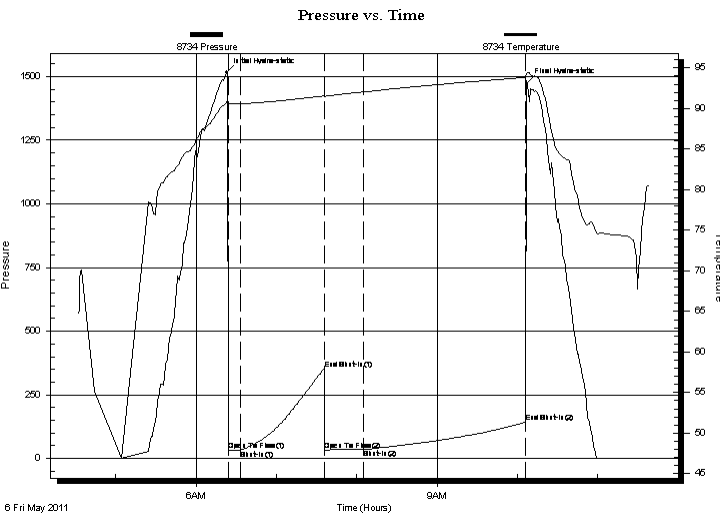
Last Calib.: 2011.05.06

Start Time: 04:32:35 End Time: 11:38:34

Time On Btm: 2011.05.06 @ 06:23:04

Time Off Btm: 2011.05.06 @ 10:07:04

TEST COMMENT: 10 - IFP - weak blow throughout 1/4" - 3/4"
60 - ISI - no blow back
30 - FFP - no blow 6 min - sur blow died 12 min
120 - FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1515.58	90.81	Initial Hydro-static
1	31.21	90.53	Open To Flow (1)
11	32.01	90.60	Shut-In(1)
73	352.00	91.57	End Shut-In(1)
73	33.34	91.45	Open To Flow (2)
102	34.54	92.05	Shut-In(2)
223	141.86	93.83	End Shut-In(2)
224	1474.72	94.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 3%O, 97%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. and Associates, Inc.

Wagner Trust 5-1

1515 Wynkoop St. Ste 700
Denver, CO
80202
ATTN: Clayton Camozzi

1-16-16 Rush, Ks

Job Ticket: 42562

DST#: 1

Test Start: 2011.05.06 @ 04:32:34

Tool Information

Drill Pipe:	Length: 3104.00 ft	Diameter: 3.80 inches	Volume: 43.54 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 43.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3158.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8365	Fluid	3124.00	
Blank Spacing	5.00			3129.00	
Shut In Tool	5.00			3134.00	
Sampler	2.00			3136.00	
Hydraulic tool	5.00			3141.00	
Jars	5.00			3146.00	
Safety Joint	2.00			3148.00	
Packer	5.00			3153.00	34.00 Bottom Of Top Packer
Packer	5.00			3158.00	
Stubb	1.00			3159.00	
Perforations	2.00			3161.00	
Change Over Sub	1.00			3162.00	
Recorder	0.00	8372	Inside	3162.00	
Recorder	0.00	8734	Outside	3162.00	
Blank Spacing	32.00			3194.00	
Change Over Sub	1.00			3195.00	
Perforations	20.00			3215.00	
Bullnose	3.00			3218.00	60.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates, Inc.

Wagner Trust 5-1

1515 Wynkoop St. Ste 700
Denver, CO
80202
ATTN: Clayton Camozzi

1-16-16 Rush, Ks

Job Ticket: 42562

DST#: 1

Test Start: 2011.05.06 @ 04:32:34

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: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

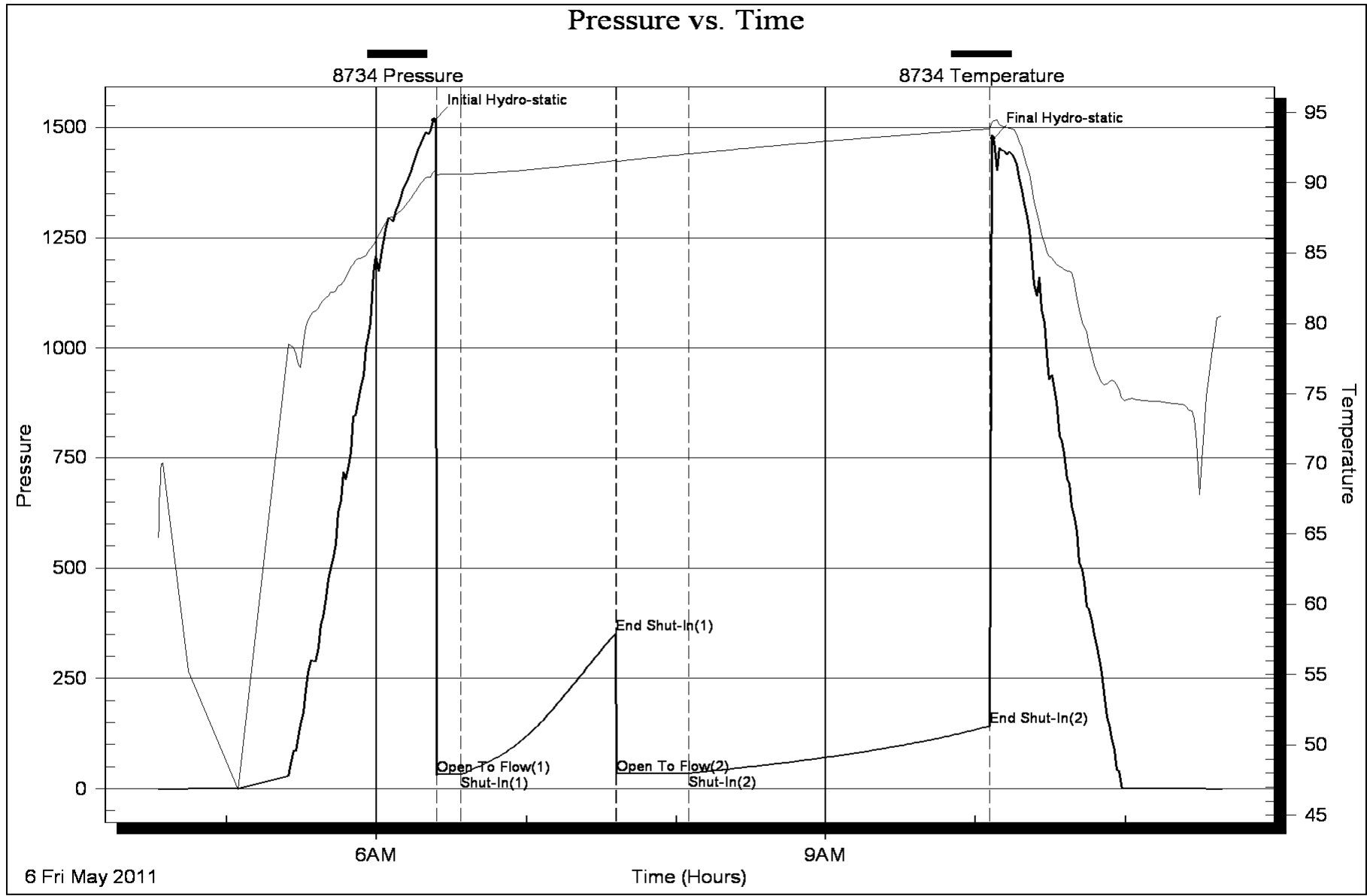
Length ft	Description	Volume bbl
5.00	VSOCM 3%O, 97%M	0.025

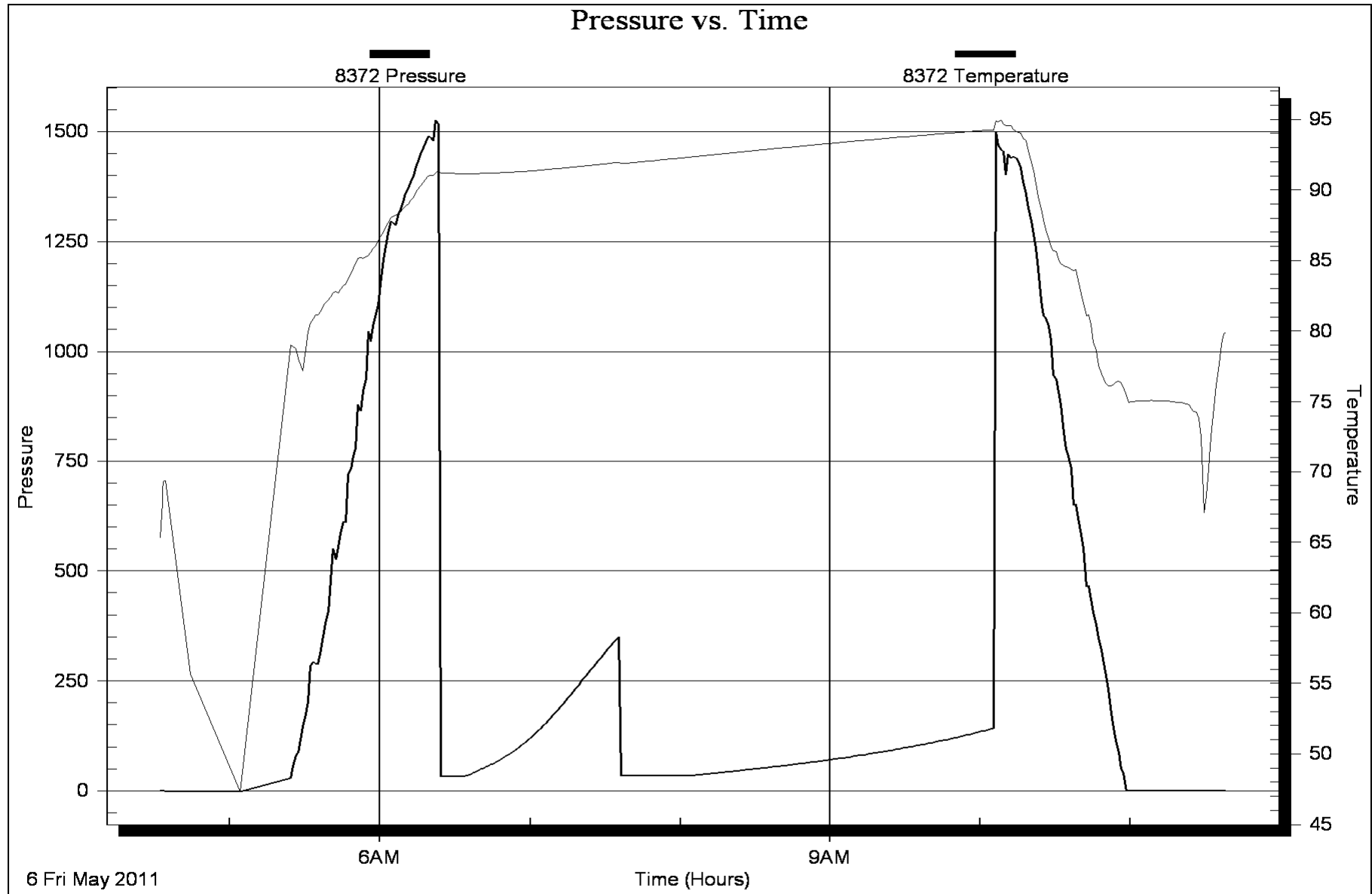
Total Length: 5.00 ft Total Volume: 0.025 bbl

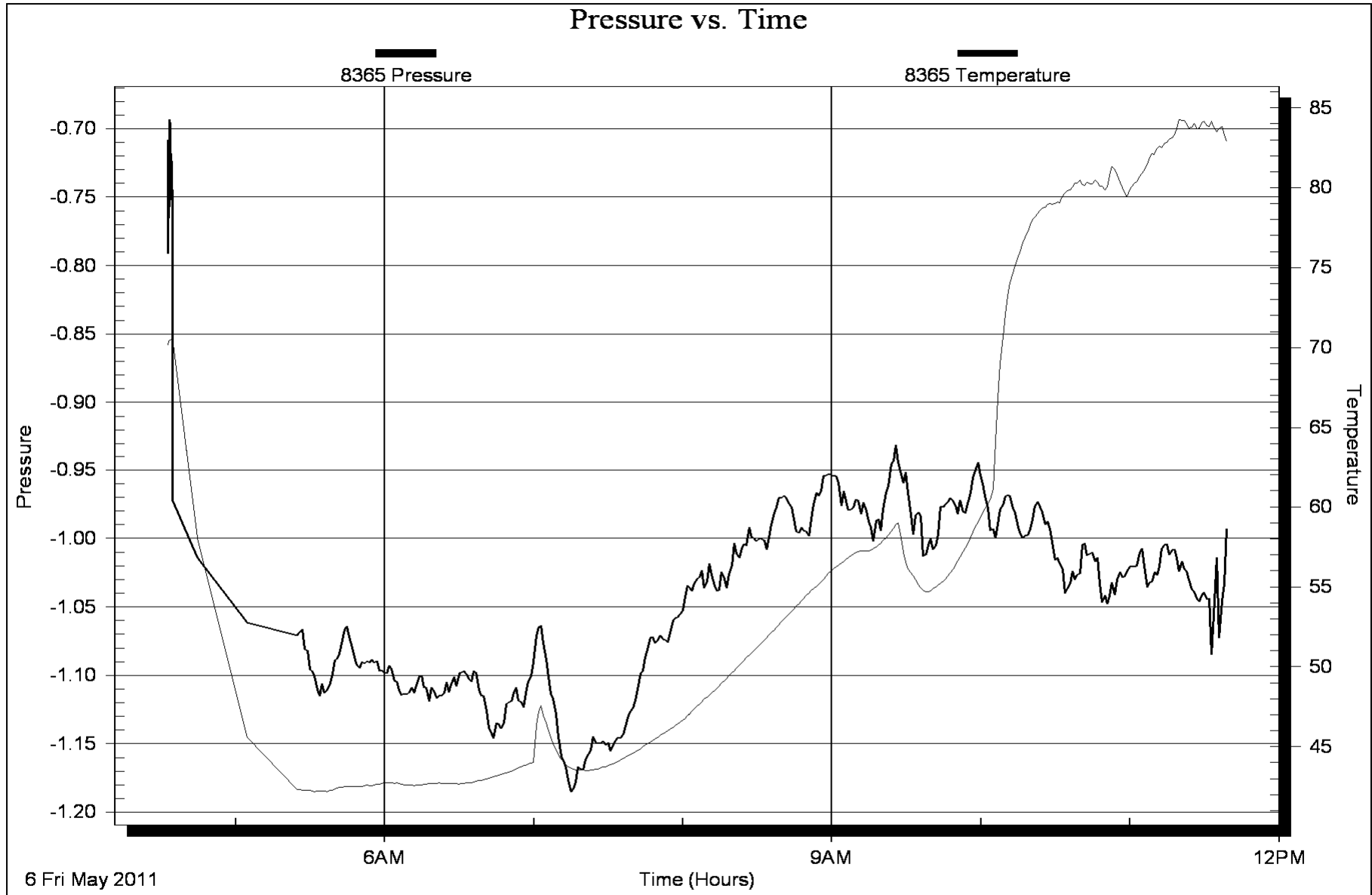
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

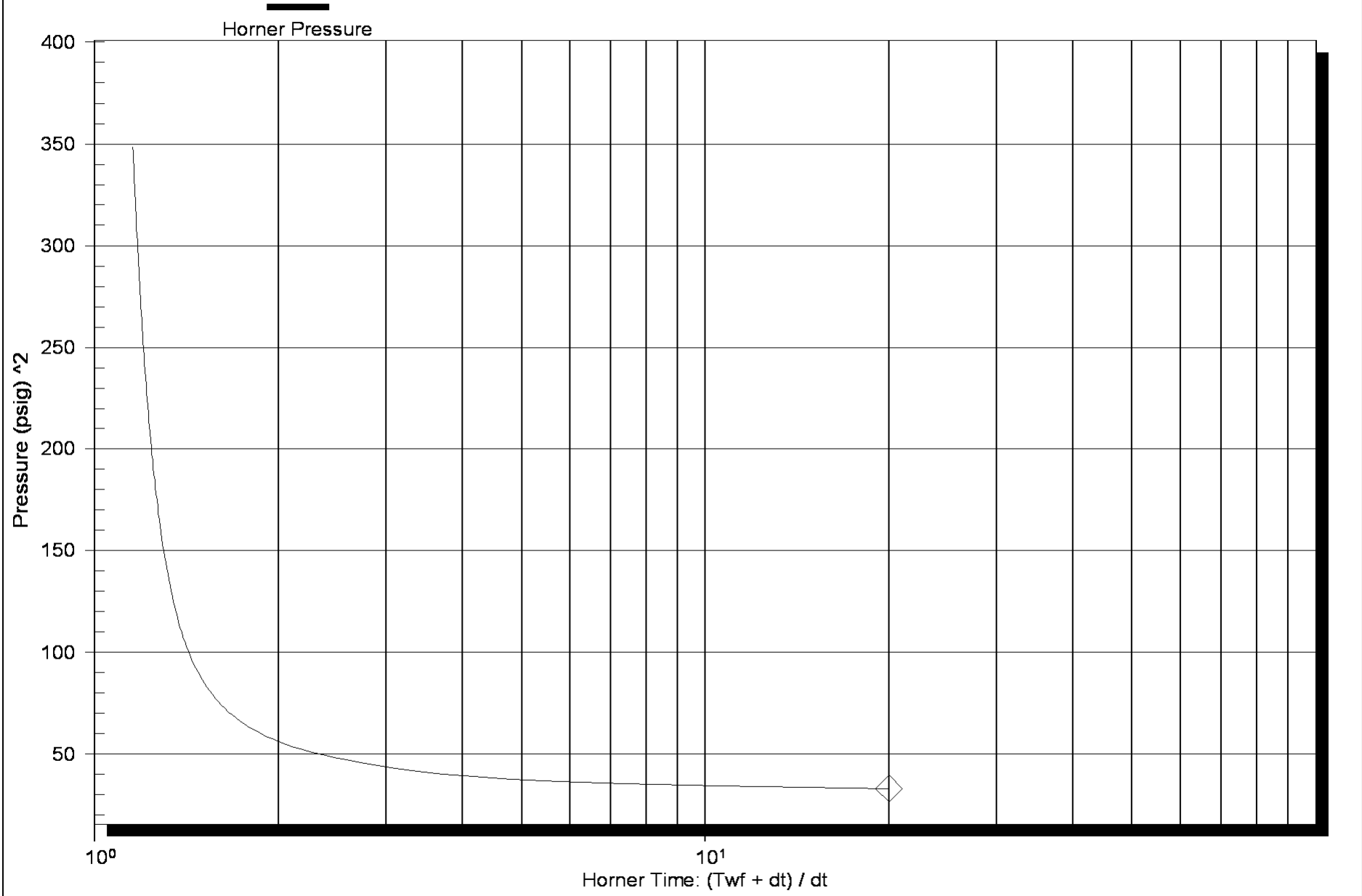
Recovery Comments: O 120 ML, M 3880 ML, 95 LBS



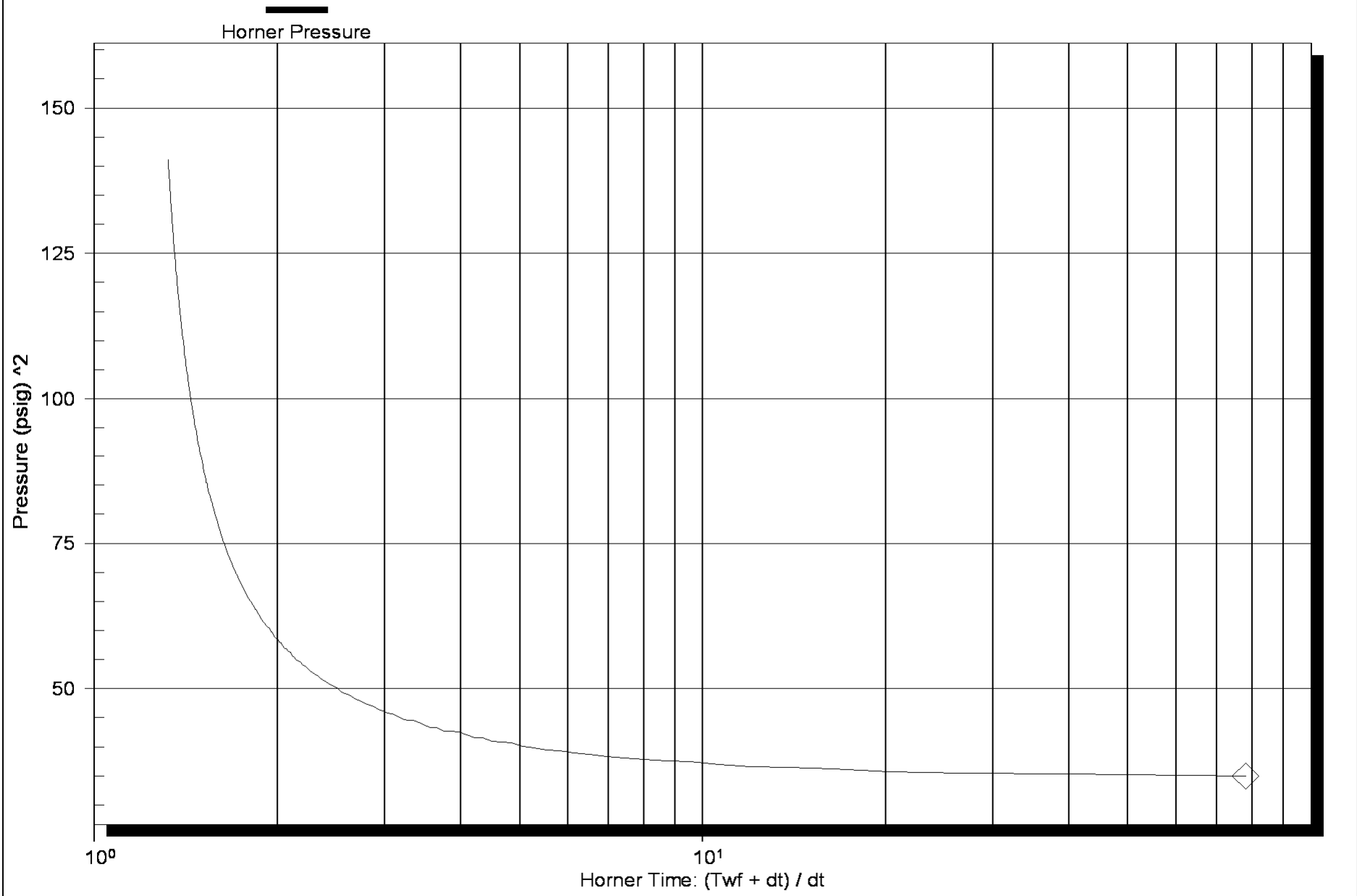




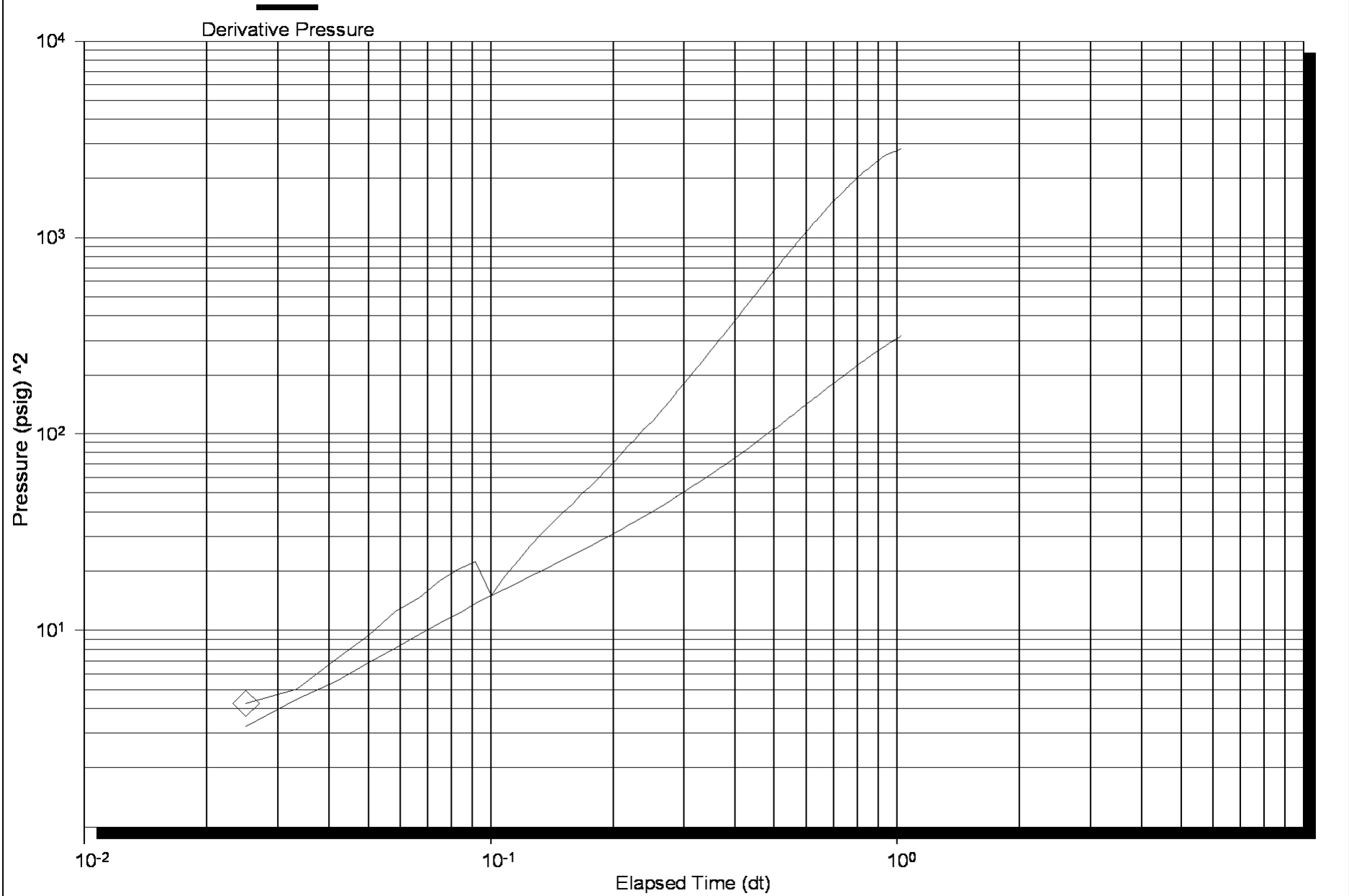
Horner Plot



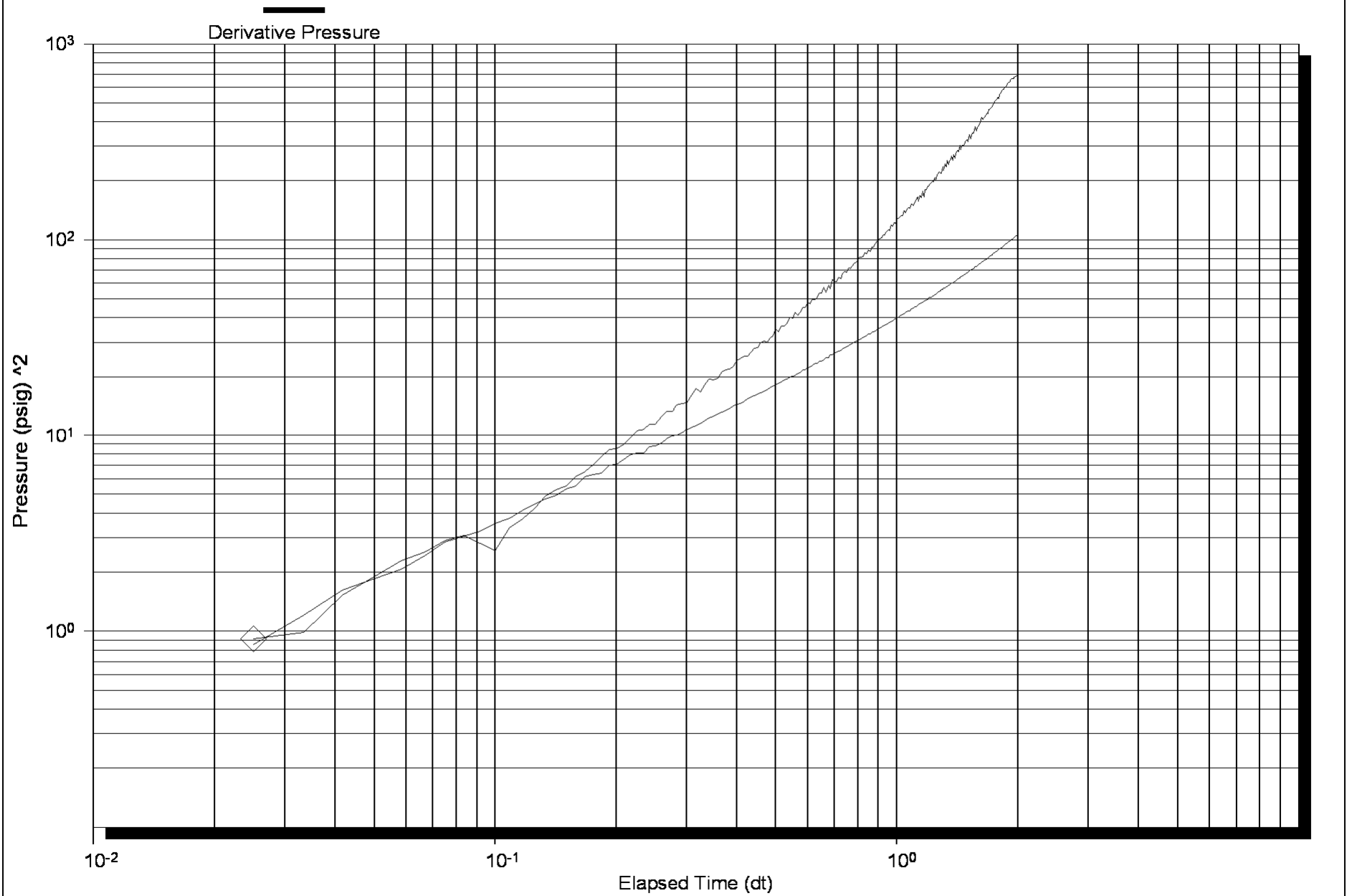
Horner Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. and Associates, Inc.**

1515 Wynkoop St. Ste 700
Denver, CO
80202

ATTN: Clayton Camozzi

1-16-16 Rush, Ks

Wagner Trust 5-1

Start Date: 2011.05.06 @ 18:49:03

End Date: 2011.05.07 @ 00:31:03

Job Ticket #: 42563 DST #: 2

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

Wagner Trust 5-1

1515 Wynkoop St. Ste 700
 Denver, CO
 80202
 ATTN: Clayton Camozzi

1-16-16 Rush, Ks

Job Ticket: 42563

DST#: 2

Test Start: 2011.05.06 @ 18:49:03

GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:29:33

Time Test Ended: 00:31:03

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3240.00 ft (KB) To 3270.00 ft (KB) (TVD)

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

1901.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 45.22 psig @ 3242.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.06

End Date: 2011.05.07

Last Calib.: 2011.05.07

Start Time: 18:49:04

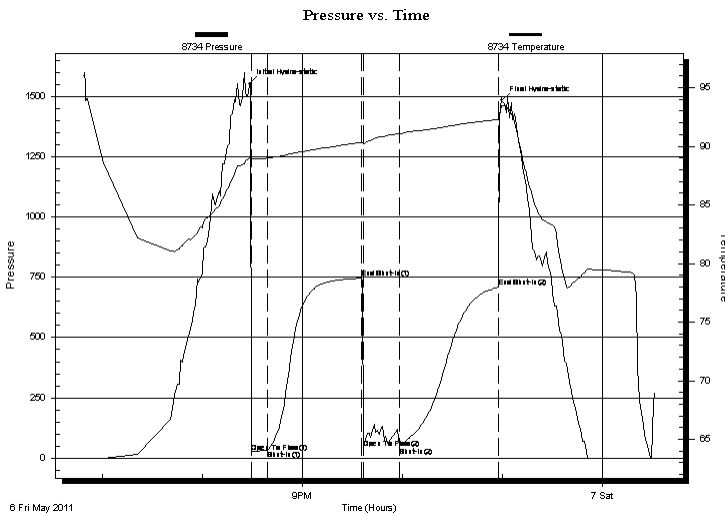
End Time: 00:31:03

Time On Btm: 2011.05.06 @ 20:28:33

Time Off Btm: 2011.05.06 @ 22:59:33

TEST COMMENT: 10 - IFP - weak blow throughout sur - 1/2"
 60 - ISI - no blow back
 20 - FFP - no blow 16 min - sur blow 2 min - dead
 60 - FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1551.05	89.14	Initial Hydro-static
1	26.10	88.83	Open To Flow (1)
11	33.97	88.98	Shut-In(1)
67	746.19	90.33	End Shut-In(1)
68	42.26	90.18	Open To Flow (2)
90	45.22	91.01	Shut-In(2)
149	708.12	92.30	End Shut-In(2)
151	1482.38	93.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 3%O, 97%M	0.02
5.00	MUD 100%	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. and Associates, Inc.

Wagner Trust 5-1

1515 Wynkoop St. Ste 700
Denver, CO
80202
ATTN: Clayton Camozzi

1-16-16 Rush, Ks

Job Ticket: 42563

DST#: 2

Test Start: 2011.05.06 @ 18:49:03

Tool Information

Drill Pipe:	Length: 3192.00 ft	Diameter: 3.80 inches	Volume: 44.78 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 44.93 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3240.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8365	Fluid	3206.00	
Blank Spacing	5.00			3211.00	
Shut In Tool	5.00			3216.00	
Sampler	2.00			3218.00	
Hydraulic tool	5.00			3223.00	
Jars	5.00			3228.00	
Safety Joint	2.00			3230.00	
Packer	5.00			3235.00	34.00 Bottom Of Top Packer
Packer	5.00			3240.00	
Stubb	1.00			3241.00	
Perforations	1.00			3242.00	
Recorder	0.00	8372	Inside	3242.00	
Recorder	0.00	8734	Outside	3242.00	
Perforations	25.00			3267.00	
Bullnose	3.00			3270.00	30.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates, Inc.

Wagner Trust 5-1

1515 Wynkoop St. Ste 700
Denver, CO
80202
ATTN: Clayton Camozzi

1-16-16 Rush, Ks

Job Ticket: 42563

DST#: 2

Test Start: 2011.05.06 @ 18:49:03

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: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

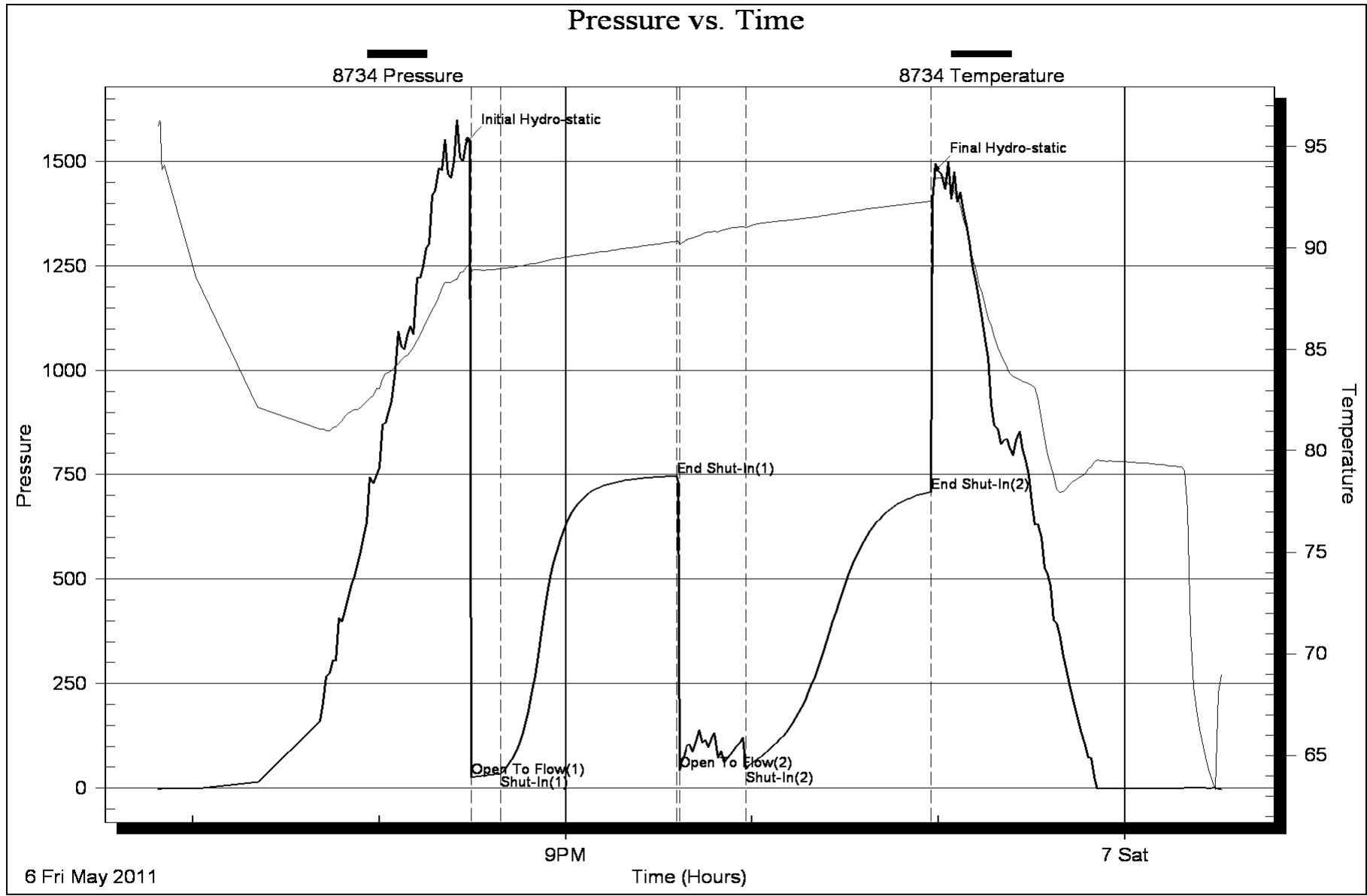
Length ft	Description	Volume bbl
5.00	VSOCM 3%O, 97%M	0.025
5.00	MUD 100%	0.025

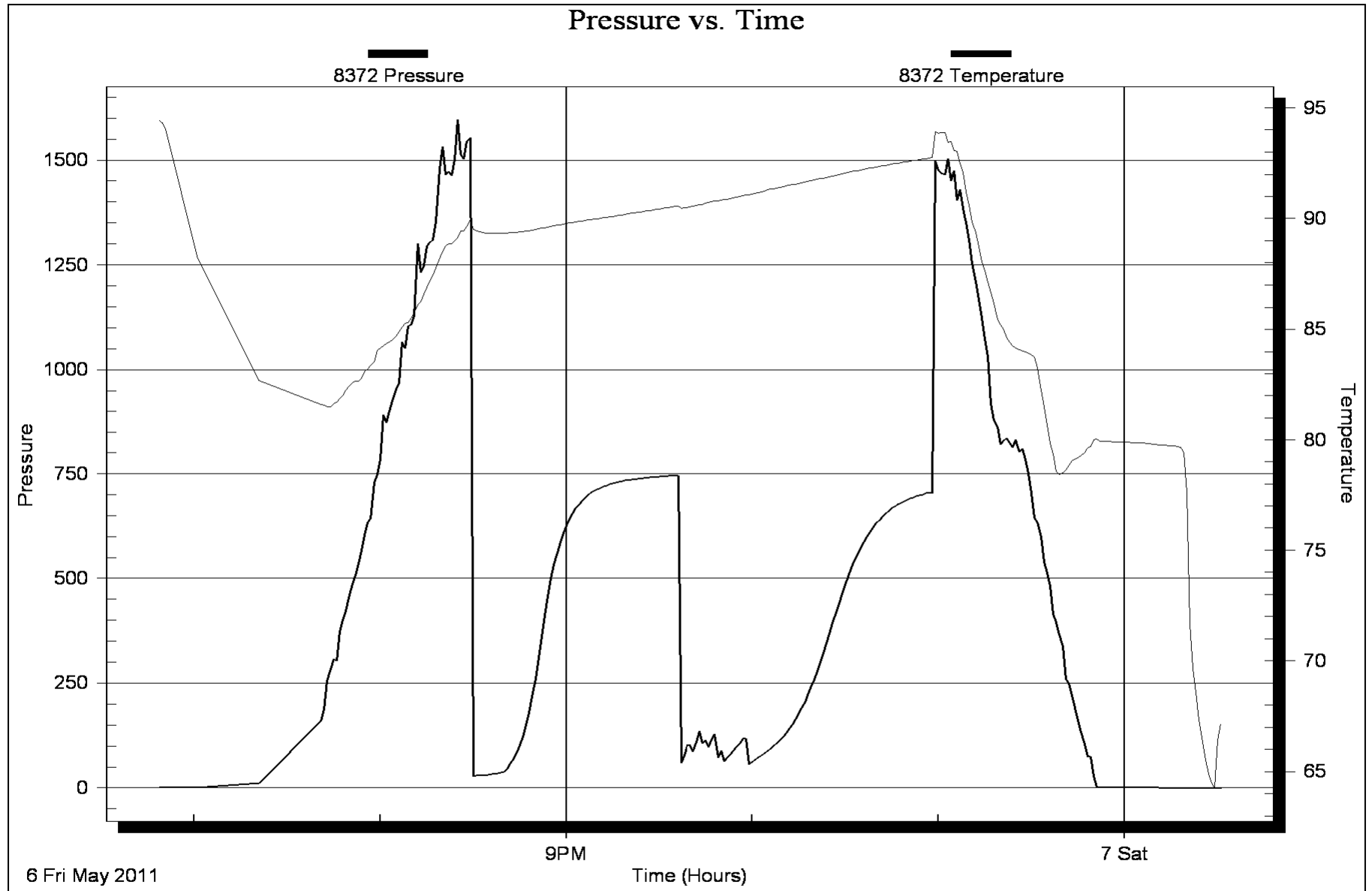
Total Length: 10.00 ft Total Volume: 0.050 bbl

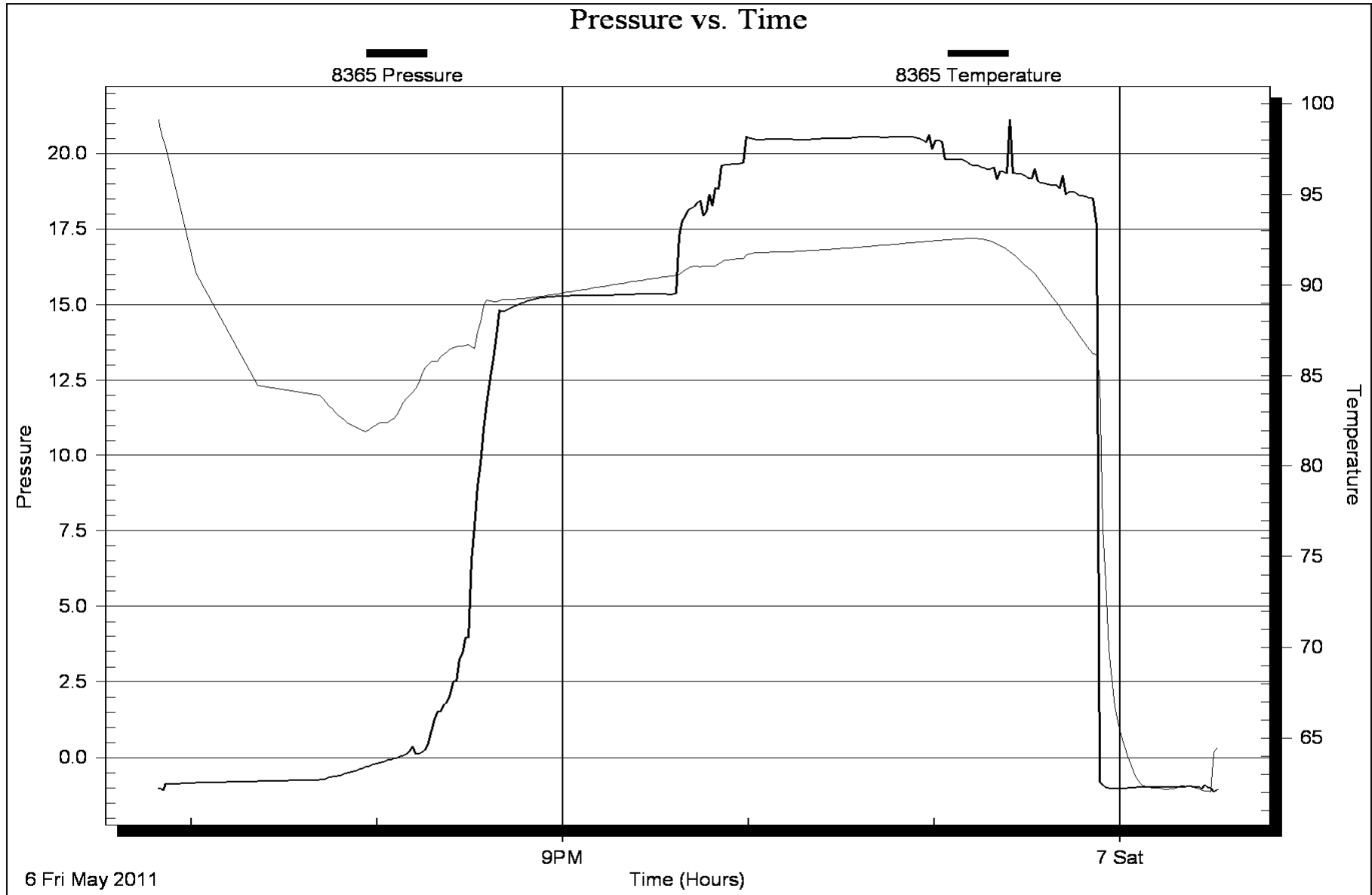
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

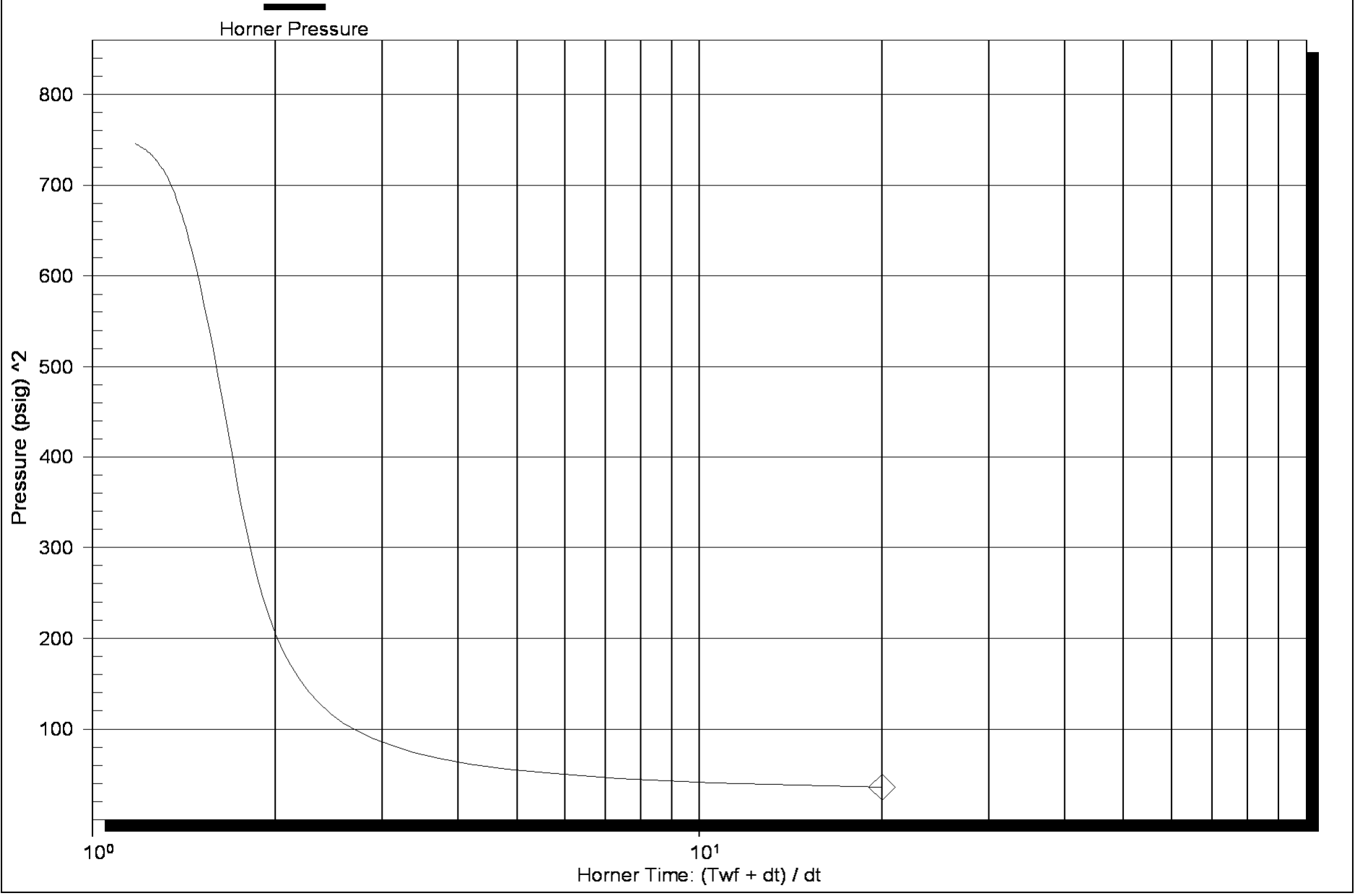
Recovery Comments: O 80 ml, M 3920 ml, 200 LBS



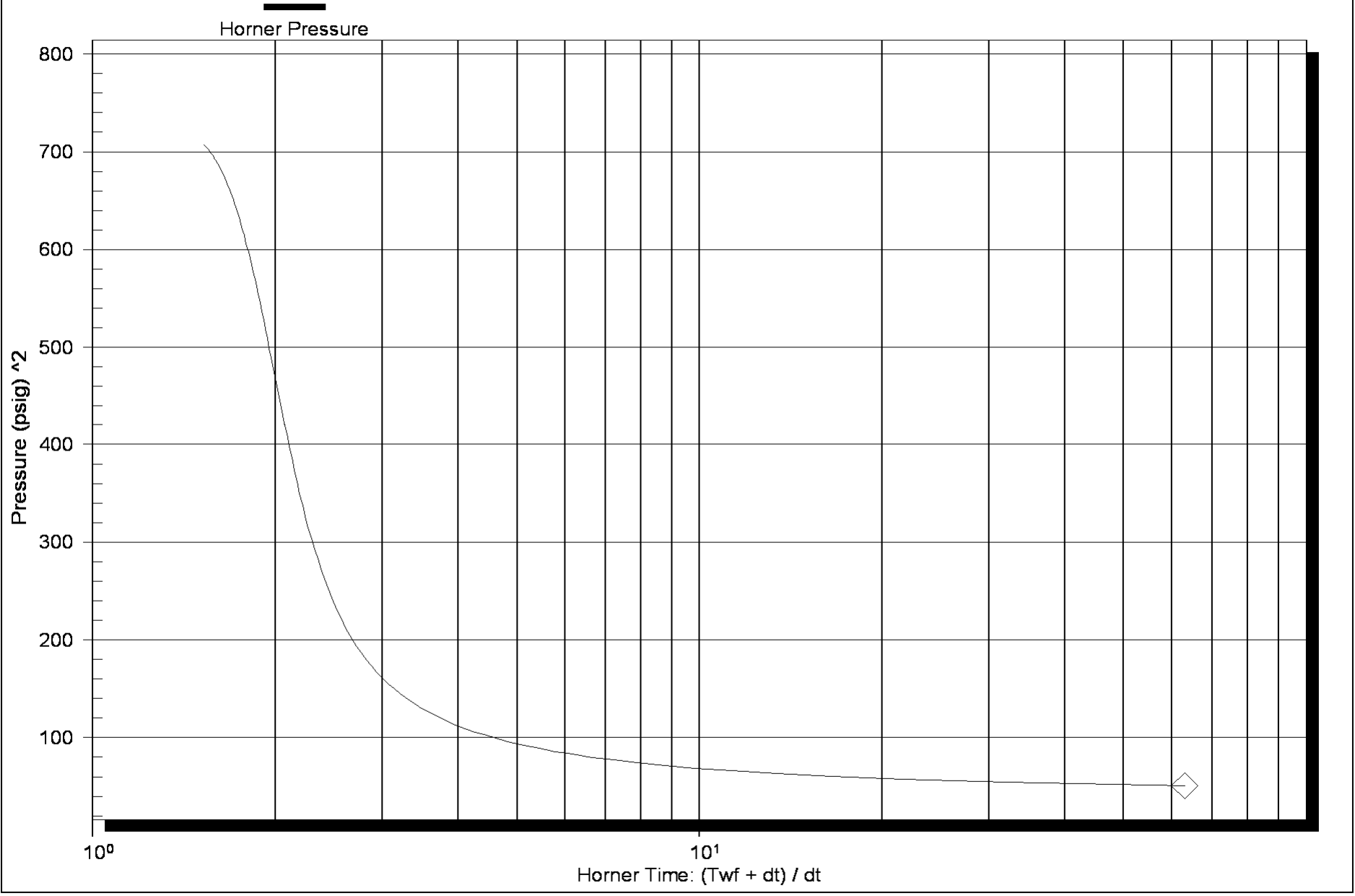




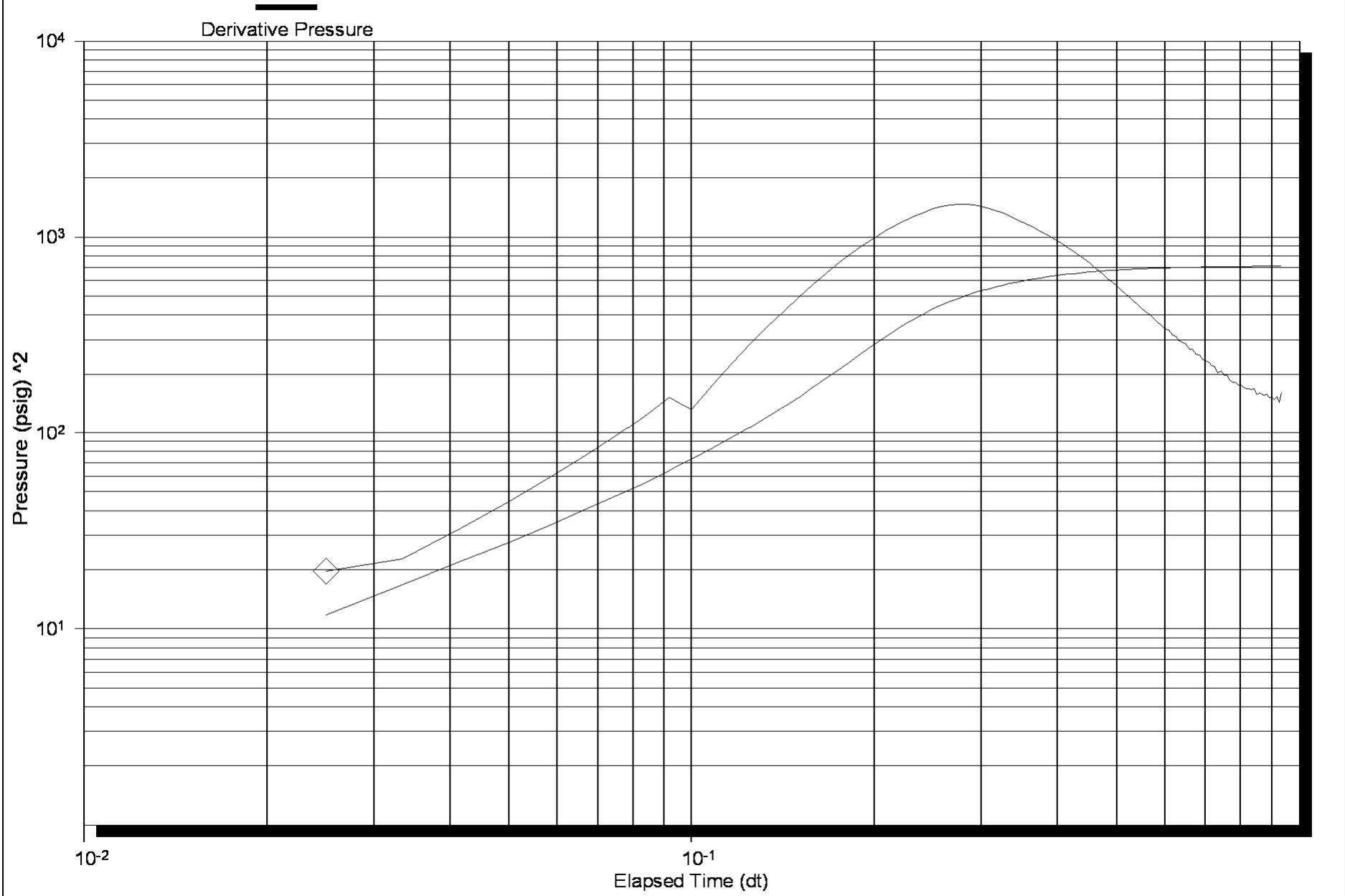
Horner Plot



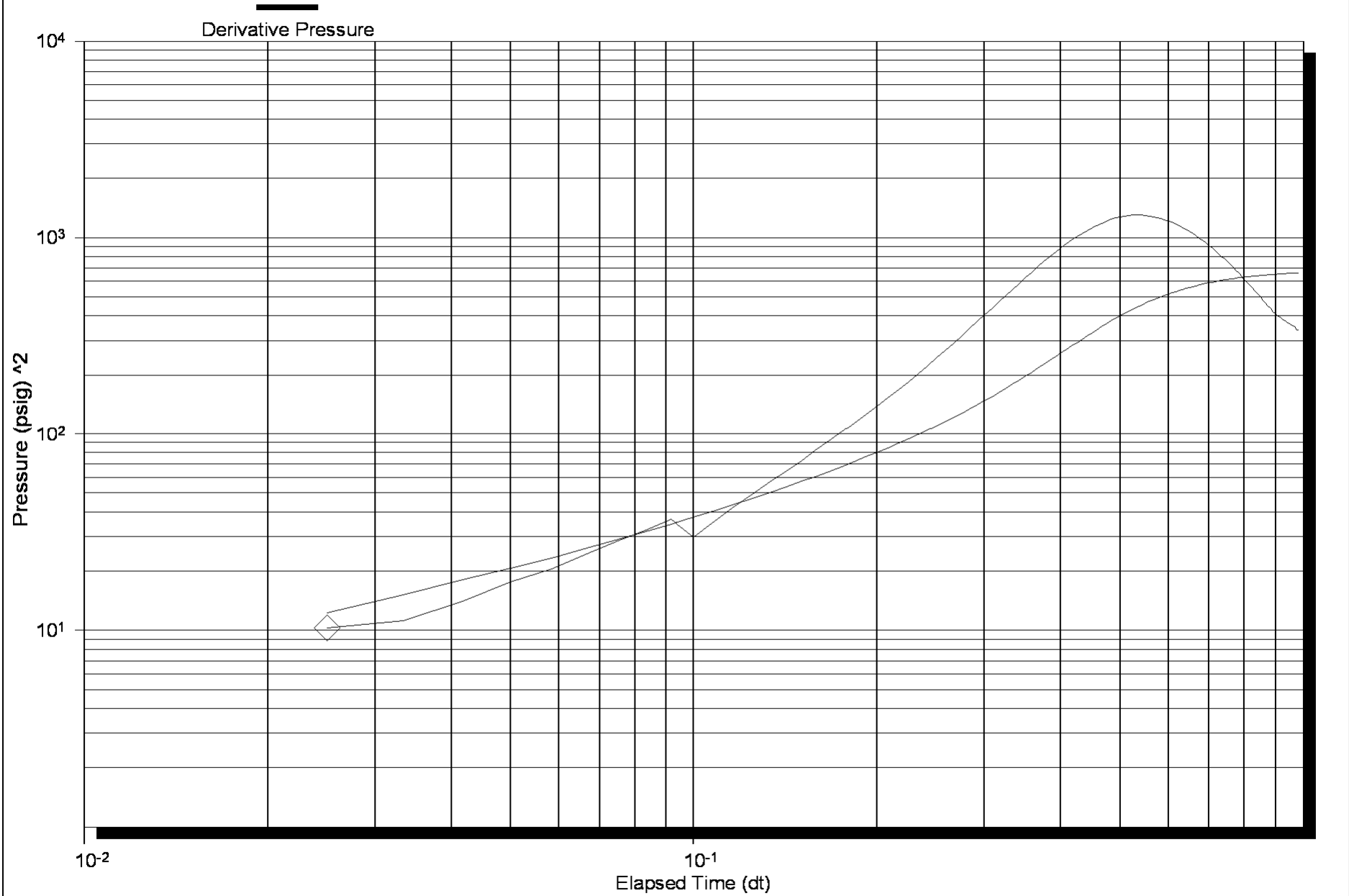
Horner Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. and Associates, Inc.**

1515 Wynkoop St. Ste 700
Denver, CO
80202

ATTN: Clayton Camozzi

1-16-16 Rush, Ks

Wagner Trust 5-1

Start Date: 2011.05.07 @ 14:12:42

End Date: 2011.05.07 @ 23:09:12

Job Ticket #: 42564 DST #: 3

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

Wagner Trust 5-1

1515 Wynkoop St. Ste 700
Denver, CO
80202
ATTN: Clayton Camozzi

1-16-16 Rush, Ks

Job Ticket: 42564

DST#: 3

Test Start: 2011.05.07 @ 14:12:42

GENERAL INFORMATION:

Formation: **LKC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:55:42

Time Test Ended: 23:09:12

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3329.00 ft (KB) To 3381.00 ft (KB) (TVD)

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3381.00 ft (KB) (TVD)

1901.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 79.76 psig @ 3336.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.07

End Date:

2011.05.07

Last Calib.:

2011.05.07

Start Time:

14:12:43

End Time:

23:09:12

Time On Btm:

2011.05.07 @ 15:54:42

Time Off Btm:

2011.05.07 @ 21:08:12

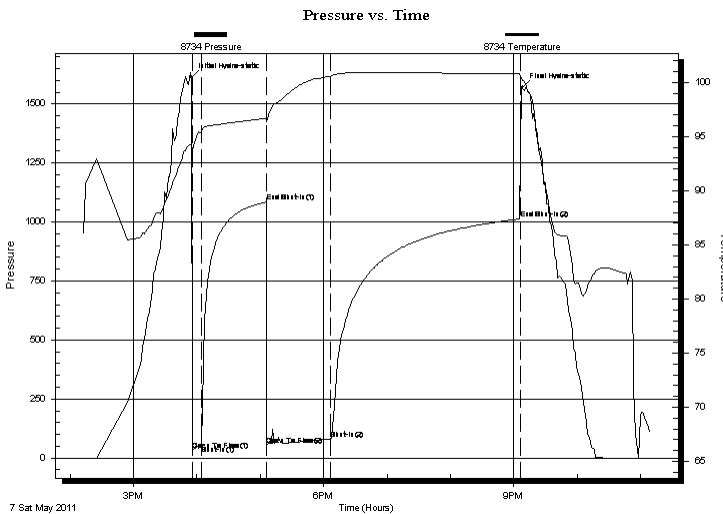
TEST COMMENT: 10 - IFP - weak blow throughout sur - 1"

60 - ISI - no blow back

60 - FFP - no blow 5 min - built to 5"

180 - FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.59	94.33	Initial Hydro-static
1	34.39	93.72	Open To Flow (1)
10	53.70	95.46	Shut-In(1)
71	1084.69	96.69	End Shut-In(1)
72	55.43	96.41	Open To Flow (2)
132	79.76	100.57	Shut-In(2)
312	1013.22	100.83	End Shut-In(2)
314	1571.25	100.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100%	0.15
65.00	MW 95%W, 5%M	0.91

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. and Associates, Inc.

Wagner Trust 5-1

1515 Wynkoop St. Ste 700
Denver, CO
80202
ATTN: Clayton Camozzi

1-16-16 Rush, Ks

Job Ticket: 42564

DST#: 3

Test Start: 2011.05.07 @ 14:12:42

Tool Information

Drill Pipe:	Length: 3286.00 ft	Diameter: 3.80 inches	Volume: 46.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3329.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Recorder	0.00	8365	Fluid	3295.00	
Blank Spacing	5.00			3300.00	
Shut In Tool	5.00			3305.00	
Sampler	2.00			3307.00	
Hydraulic tool	5.00			3312.00	
Jars	5.00			3317.00	
Safety Joint	2.00			3319.00	
Packer	5.00			3324.00	34.00 Bottom Of Top Packer
Packer	5.00			3329.00	
Stubb	1.00			3330.00	
Perforations	5.00			3335.00	
Change Over Sub	1.00			3336.00	
Recorder	0.00	8372	Inside	3336.00	
Recorder	0.00	8734	Outside	3336.00	
Blank Spacing	31.00			3367.00	
Change Over Sub	1.00			3368.00	
Perforations	10.00			3378.00	
Bullnose	3.00			3381.00	52.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates, Inc.

Wagner Trust 5-1

1515 Wynkoop St. Ste 700
Denver, CO
80202
ATTN: Clayton Camozzi

1-16-16 Rush, Ks

Job Ticket: 42564

DST#: 3

Test Start: 2011.05.07 @ 14:12:42

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 6700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 48000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud 100%	0.148
65.00	MW 95%W, 5%M	0.912

Total Length: 95.00 ft Total Volume: 1.060 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

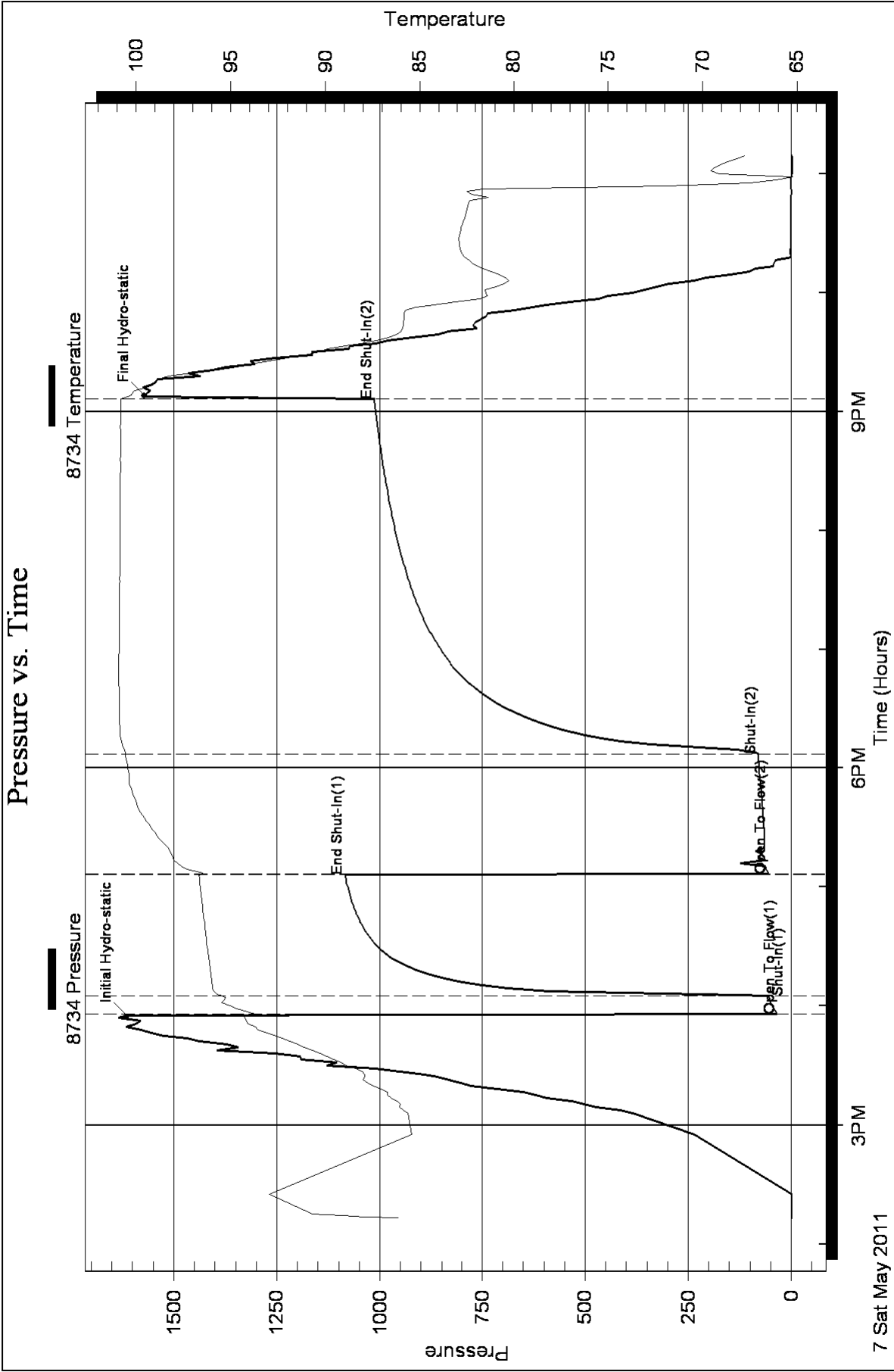
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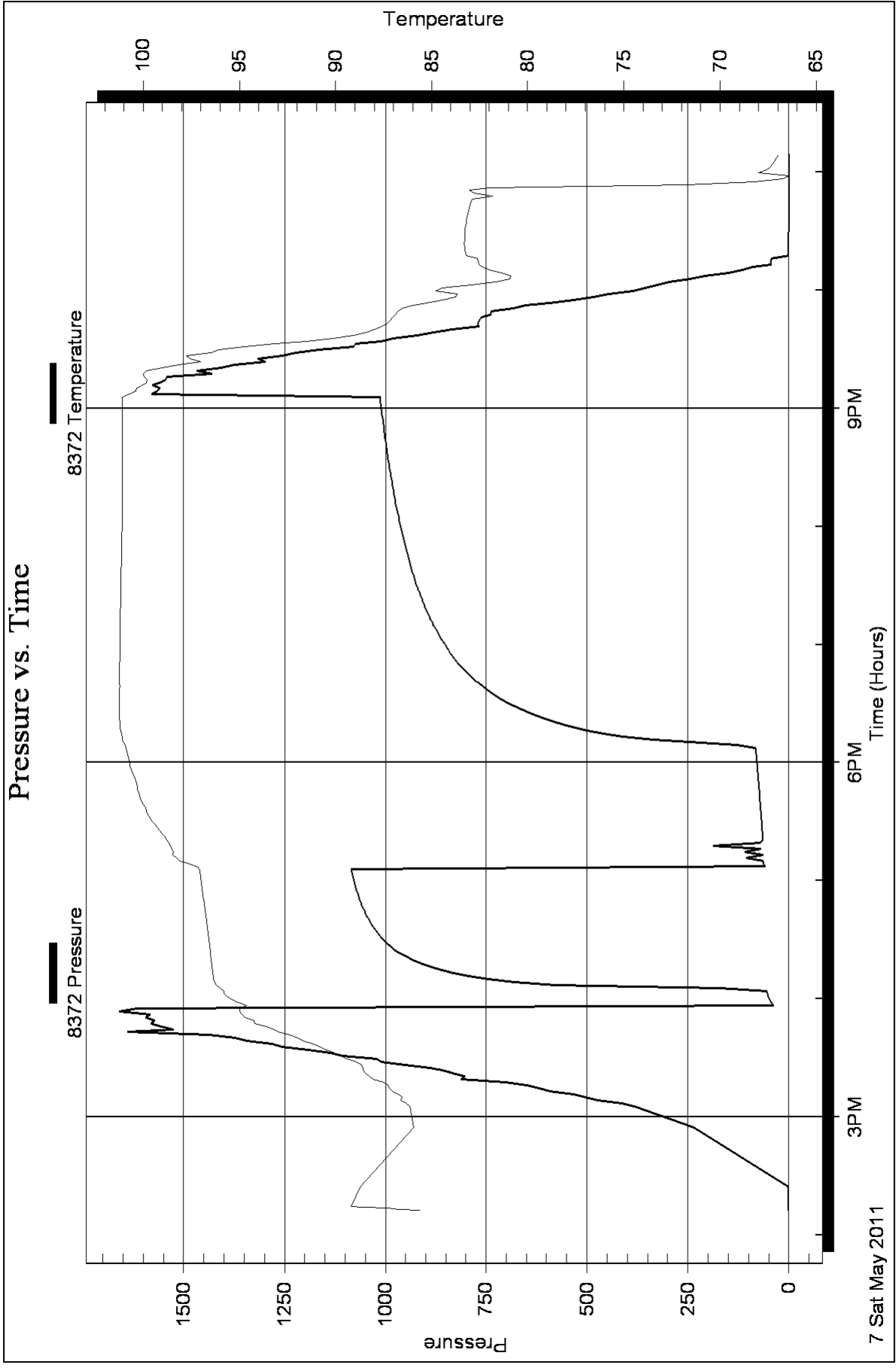
Laboratory Name:

Laboratory Location:

Recovery Comments: M 200 ml, W 3800 ml, 150 LBS RW .168 68 degrees 48,000

Pressure vs. Time





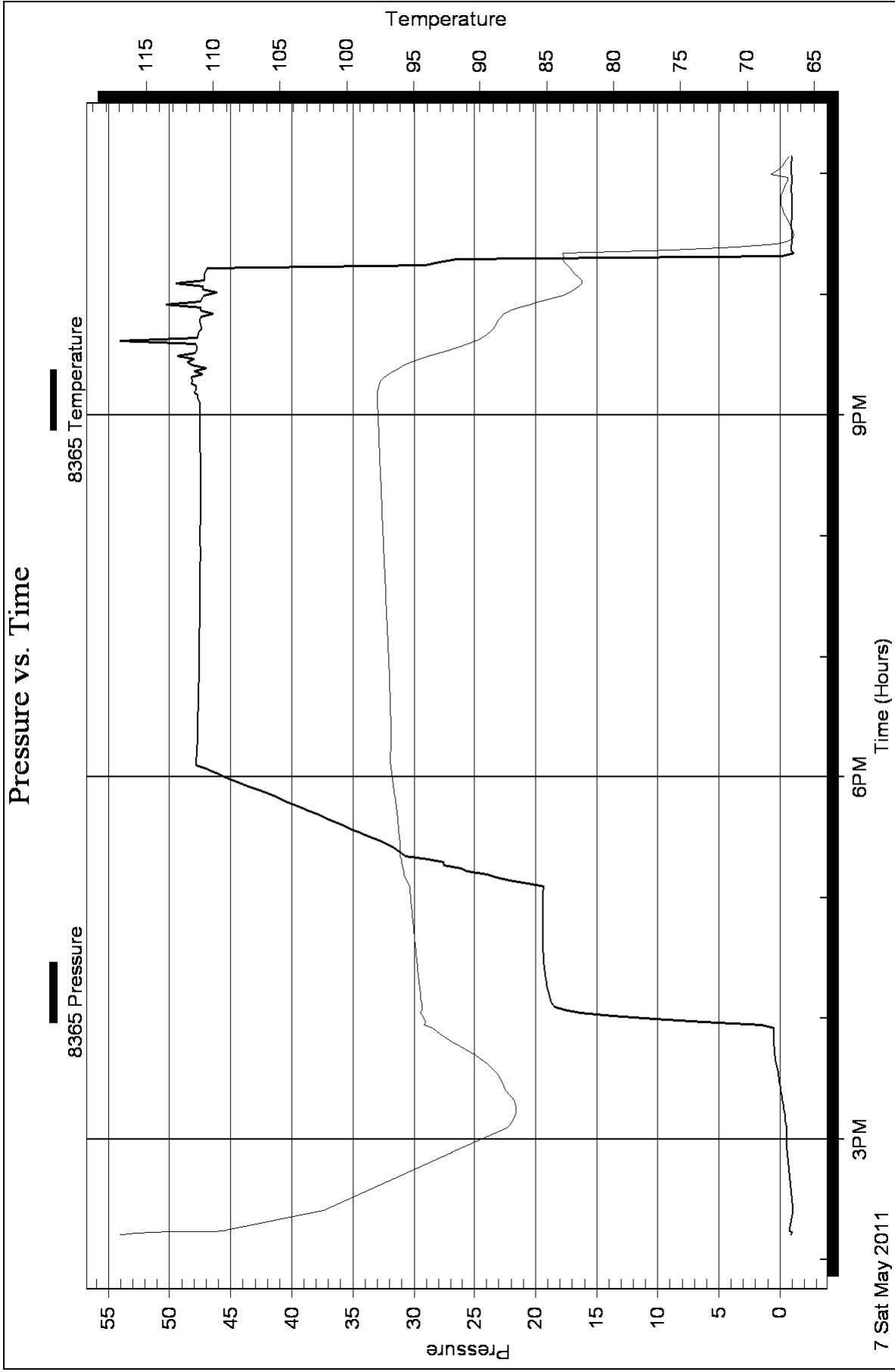
Serial #: 8365

Fluid

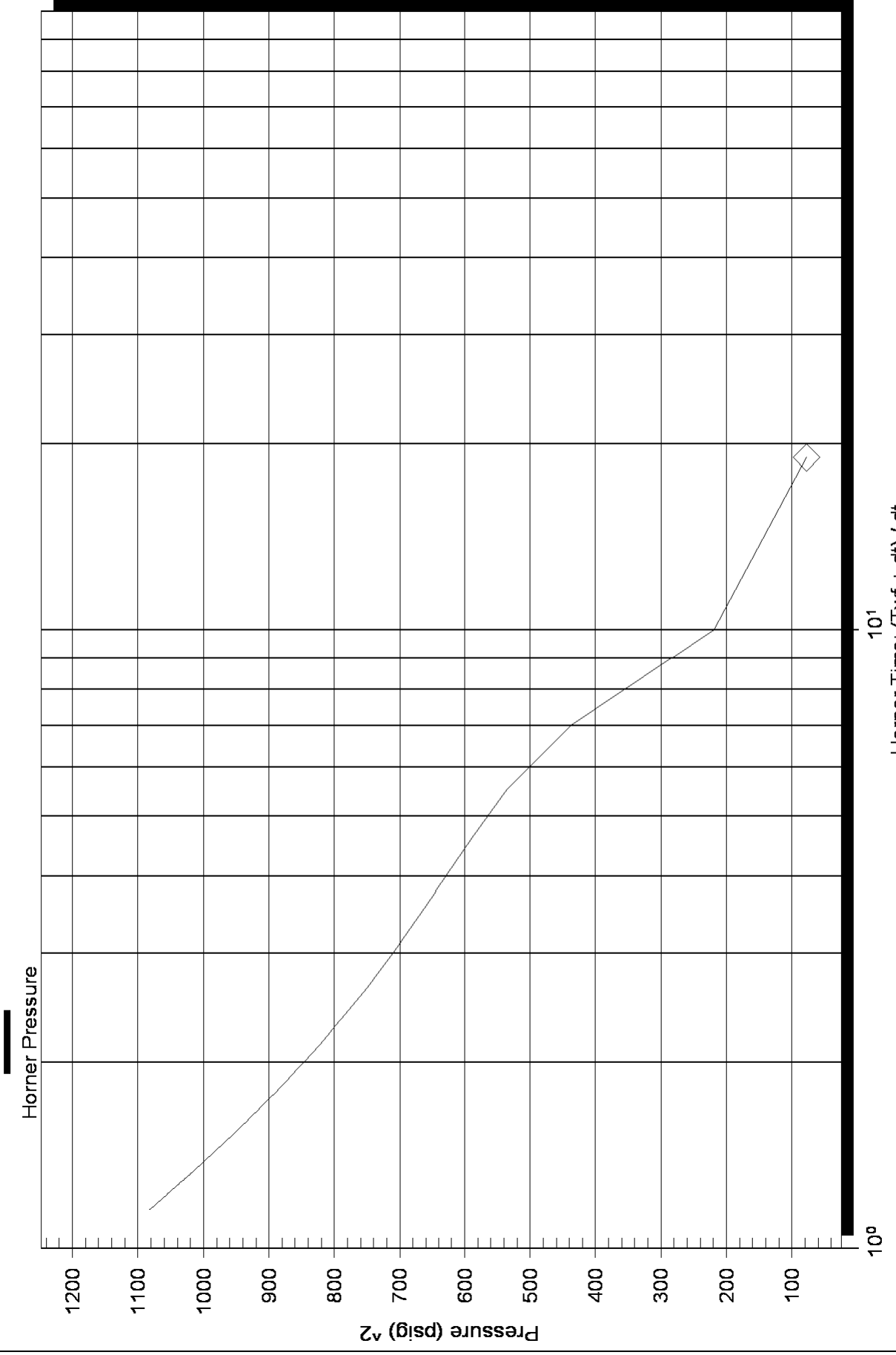
Samuel Gary Jr. and Associates, Inc.

1-16-16 Rush, Ks

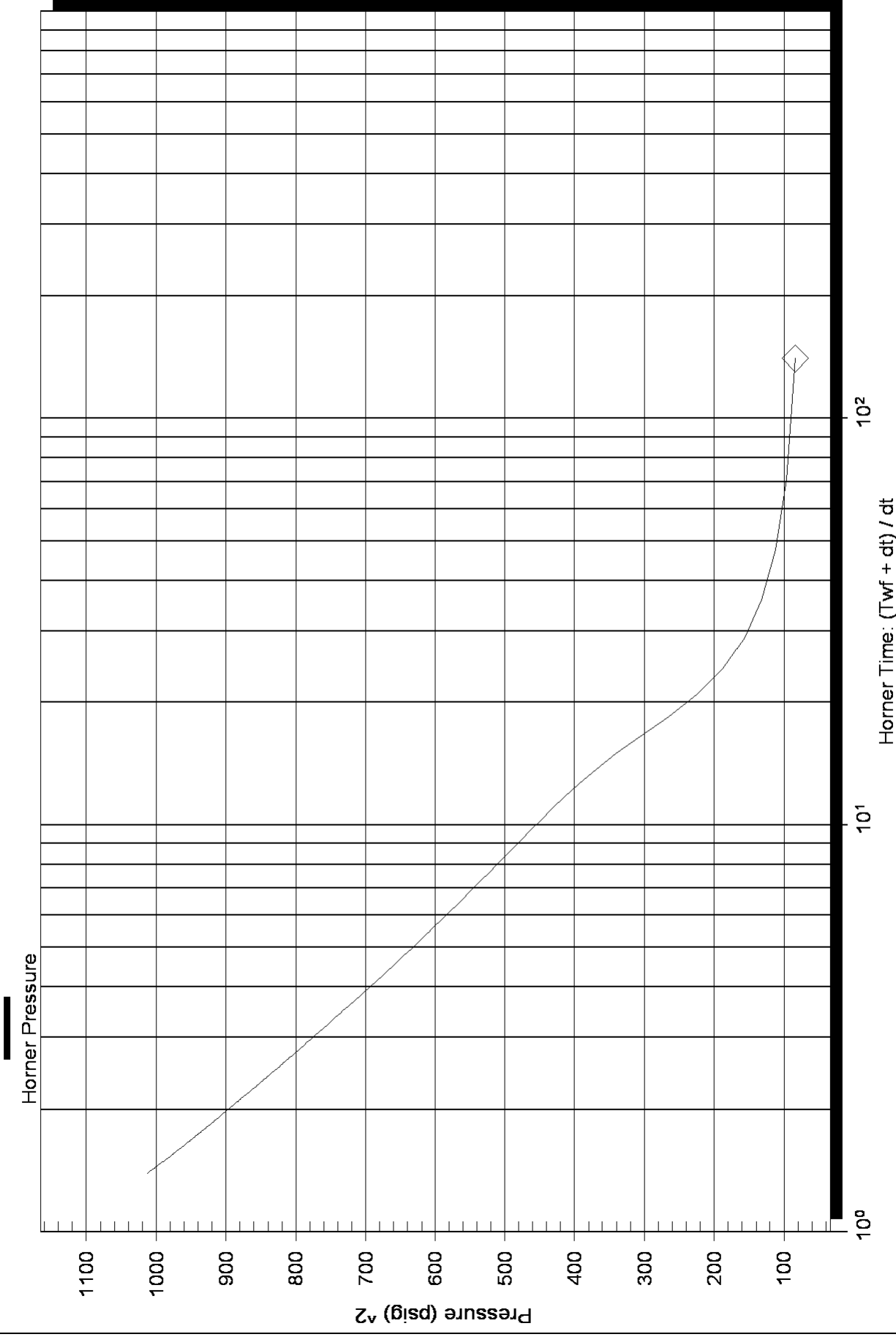
DST Test Number: 3



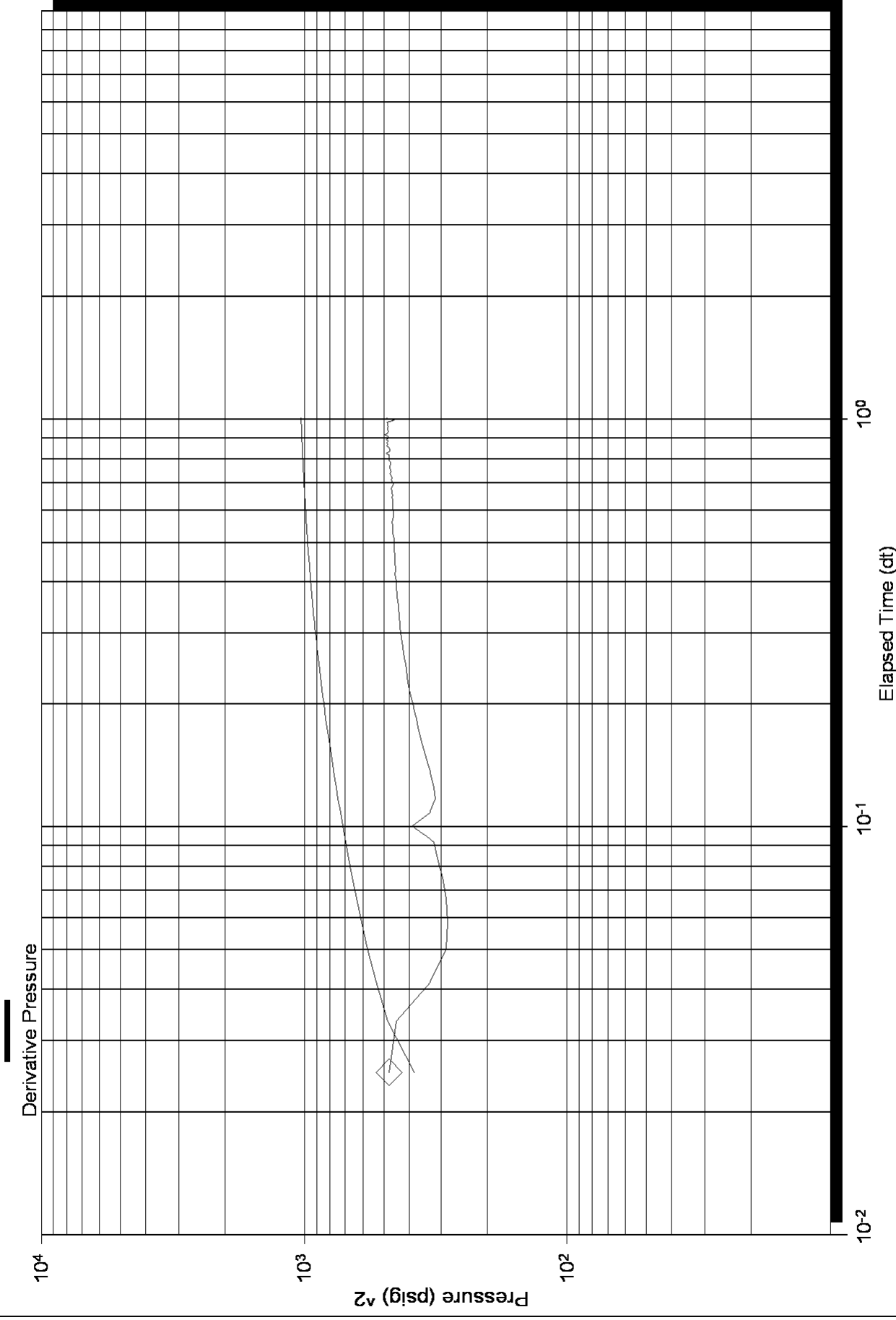
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

