



**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: \_\_\_\_\_



1067422

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:  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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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	BOGLEIGH WALLAH WEST TRUST 1-4
Doc ID	1067422

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 11, 2011

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

Re: ACO1  
API 15-165-21928-00-00  
BOGLEIGH WALLAH WEST TRUST 1-4  
NE/4 Sec.04-16S-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: 7/22/2011  
 Invoice # 5050

P.O.#:  
 Due Date: 8/21/2011  
 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	8200-128
Well/Prospect	BOGLEIGH WALLAH WEST TRUST 1-4
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

**Reference:**  
 CLAIR 426 BOGLEIGH WALLAH WEST TRUST 1-4

**Description of Work:**  
 LONG SURFACE

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	390	\$ 5,022.33	Yes				
8 5/8" Basket	3	\$ 1,000.67	No				
Bulk Truck Matl-Material Service Charge	390	\$ 823.33	No				
Calcium Chloride	13	\$ 516.78	Yes				
Pump Truck Mileage-Job to Nearest Camp	25	\$ 263.36	No				
8 5/8" Centralizer	3	\$ 202.67	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	25	\$ 154.11	No				
Premium Gel (Bentonite)	8	\$ 137.48	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	No				
Baffle Plate Aluminum, 8 5/8"	1	\$ 95.00	No				

**Invoice Terms:**  
 Net 30

SubTotal: \$ 9,291.46

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,393.72)

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SubTotal for Taxable Items: \$ 4,825.10  
 SubTotal for Non-Taxable Items: \$ 3,072.65

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Total: \$ 7,897.74  
 Tax: \$ 303.98

**Amount Due: \$ 8,201.73**

**Applied Payments:**  
**Balance Due: \$ 8,201.73**

6.30% Rooks 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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Phone 785-483-2025  
Cell 785-324-1041

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

No. 5050

Date	7-16-11	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Baylor Well No. 1-4			Location	Rush	Kansas		2:30 p.
Contractor	Discovery Drilling Rig 2				Owner	To Quality Oilwell Cementing, Inc.		
Type Job	Surface				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size	12 1/4	T.D.	1021		Charge To	Samuel Gary, Jr. & Associates		
Csg.	8 3/8 23b	Depth	1021		Street			
Tbg. Size		Depth			City	State		
Tool	Baffle Plate	Depth	979		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.	42'	Shoe Joint	42'		Cement Amount Ordered 370 Common 300			
Meas Line		Displace	62 1/2 Bbl		2 1/2 bbl 1/2 lb Flo Seal per sk			

EQUIPMENT

Pumptrk	9	No.	Cementer	Steve
			Helper	
Bulktrk	13	No.	Driver	Dave
			Driver	
Bulktrk		No.	Driver	Corey
			Driver	

Common	370
Poz. Mix	
Gel.	7
Calcium	13

JOB SERVICES & REMARKS

Remarks:  
Rat Hole  
Mouse Hole  
Centralizers 1 15 22  
Baskets 2 16 23  
D/V or Port Collar  
  
Cement did Circulate

Hulls	
Salt	
Flowseal	92#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	390
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	3
Baskets	3
AFU Inserts	
Float Shoe	
Latch Down	
Rubber Plug	8 3/8
Baffle Plate	8 3/8
Pumptrk Charge	1014 Surface
Mileage	25

Thank You

Tax	
Discount	
Total Charge	

X Signature



**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: 7/28/2011  
 Invoice # 5056

P.O.#:  
 Due Date: 8/27/2011  
 Division: Russell

# Invoice

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

**Reference:**  
 BOGLEIGH WALLAH TRUST 1-4

**Description of Work:**  
 PROD LONG STRING

DRLG  COMP  W/O  LOE  GG

Account	8300-238
Well/Prospect	BOGLEIGH WALLAH WEST 1-4
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

**Services / Items Included:**

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 950.65	No				
Common-Class A	225	\$ 2,857.81	Yes	Salt (Fine)	19	\$276.14	Yes
Gilsonite	1057	\$ 1,650.66	Yes	Pump Truck Mileage-Job to Nearest Camp	26	\$270.14	No
CFL 117	117	\$ 750.34	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$233.21	Yes
CD-110	176	\$ 732.93	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	26	\$158.08	No
5 1/2" Basket	3	\$ 718.36	Yes	Flo Seal	56	\$116.60	Yes
5 1/2" Turbolizer	8	\$ 483.07	Yes	KCL	2	\$62.17	Yes
Bulk Truck Mat-Material Service Charge	225	\$ 468.49	No				
Mud Clear	500	\$ 385.21	Yes				
Defoamer A or CAF-38	50	\$ 364.36	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 318.58	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 10,796.81  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,619.52)

SubTotal for Taxable Items: \$ 7,607.03  
 SubTotal for Non-Taxable Items: \$ 1,570.26

Total: \$ 9,177.29  
 Tax: \$ 479.24

6.30% Rush County Sales Tax

**Amount Due: \$ 9,656.53**  
**Applied Payments:**  
**Balance Due: \$ 9,656.53**

**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. 5056

Date	7-23-11	Sec.	4	Twp.	16	Range	16	County	Rush	State	Kansas	On Location		Finish	2:00pm	
Lease	Baylor/Hubbell							Well No.	1-4	Location Graham S. to Cadline 2625 2626 2627 2628						
Contractor	Discovery Drilling							Rig	2	Owner						
Type Job	Langsting							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	7 7/8		T.D.		3600		Charge To									
Csg.	5 1/2 15.50 lb		Depth		3596		Samuel Gray Jr. & Associates									
Tbg. Size			Depth				Street									
Tool			Depth				City									
Cement Left in Csg.	21		Shoe Joint		21		State									
Meas Line			Displace		85 Bbl		The above was done to satisfaction and supervision of owner agent or contractor.									
							Cement Amount Ordered 225 Q Pcc 10% Salt Solids									

**EQUIPMENT**

Pumptrk	9	No.	Cementer	Stove				
			Helper					
Bulktrk	14	No.	Driver	None				
			Driver	None				
Bulktrk		No.	Driver	None				
			Driver	None				

**JOB SERVICES & REMARKS**

Remarks:								
Rat Hole	30							
Mouse Hole	20							
Centralizers	1 3 5 7 9 11 13 15							
Baskets	3 9 15							
D/V or Port Collar								
Pipe set @ 3596	Insert with 3575							
Ramp 500 Gal Fluid	48 (comped Rathole)							
Mouse hole	Cement casing (over line)							
Begin displacement	with 20 Bbl							
Land plug @ 1100 psi								
Float Held								

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	8 Tubs
Baskets	3
AFU Inserts	
Float Shoe	1
Latch Down	1
Retaining Head	
Pumptrk Charge	provid Long Spring
Mileage	26

*[Signature]*  
X Signature Kirby Lupp

Tax \_\_\_\_\_  
Discount \_\_\_\_\_  
Total Charge \_\_\_\_\_





## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Assoc. inc**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202

ATTN: Clayton Camozzi

### **4-16s-16w Rush**

### **Bogleigh Wallah West TR 1-4**

Start Date: 2011.07.19 @ 19:23:05

End Date: 2011.07.20 @ 02:58:29

Job Ticket #: 43514                      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. & Assoc. inc

**Bogleigh Wallah West TR 1-4**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202  
ATTN: Clayton Camozzi

**4-16s-16w Rush**

Job Ticket: 43514

**DST#: 1**

Test Start: 2011.07.19 @ 19:23:05

## GENERAL INFORMATION:

Formation: **LKC " B-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:07:00

Time Test Ended: 02:58:29

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

**Interval: 3200.00 ft (KB) To 3223.00 ft (KB) (TVD)**

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3223.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8352 Outside**

Press @ Run Depth: 113.98 psig @ 3201.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.19

End Date:

2011.07.20

Last Calib.:

2011.07.20

Start Time: 19:23:05

End Time:

02:58:29

Time On Btm:

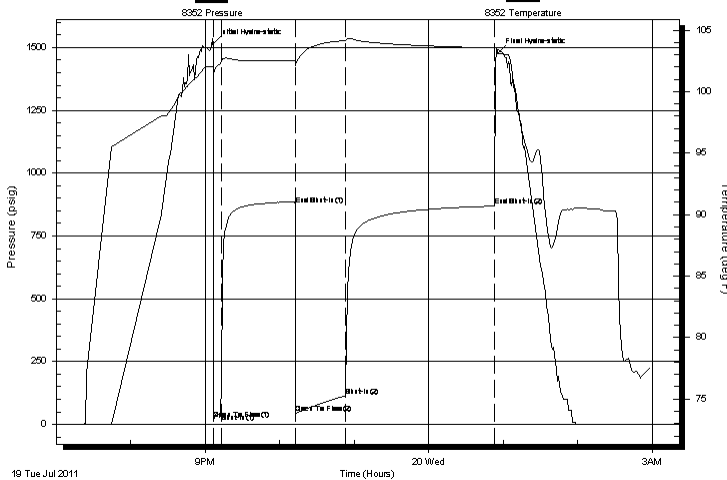
2011.07.19 @ 21:06:40

Time Off Btm:

2011.07.20 @ 00:55:50

**TEST COMMENT:** IF:(5min) 4 inch blow .  
IS:(60min) No Return  
FF:(40min) BOB, 6 min.  
FS:(120min) No Return

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1515.85	102.06	Initial Hydro-static
1	21.20	101.35	Open To Flow (1)
7	42.67	102.31	Shut-In(1)
66	872.81	102.53	End Shut-In(1)
67	45.29	102.28	Open To Flow (2)
106	113.98	104.15	Shut-In(2)
227	868.88	103.55	End Shut-In(2)
230	1478.20	103.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
185.00	MW m=10% w=90%	2.32
15.00	WCMO w=20% m=30% o=50%	0.21

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. & Assoc. inc

**Bogleigh Wallah West TR 1-4**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202  
ATTN: Clayton Camozzi

**4-16s-16w Rush**

Job Ticket: 43514

**DST#: 1**

Test Start: 2011.07.19 @ 19:23:05

## Tool Information

Drill Pipe:	Length: 3160.00 ft	Diameter: 3.80 inches	Volume: 44.33 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 30.15 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.15 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3200.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	58.00 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			3166.00	
Recorder	0.00	8647	Fluid	3166.00	
Blank Spacing	5.00			3171.00	
Shut In Tool	5.00			3176.00	
Sampler	2.00			3178.00	
Hydraulic tool	5.00			3183.00	
Jars	5.00			3188.00	
Safety Joint	3.00			3191.00	
Packer	5.00			3196.00	35.00 Bottom Of Top Packer
Packer	4.00			3200.00	
Stubb	1.00			3201.00	
Recorder	0.00	8017	Inside	3201.00	
Recorder	0.00	8352	Outside	3201.00	
Perforations	19.00			3220.00	
Bullnose	3.00			3223.00	23.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Assoc. inc

**Bogleigh Wallah West TR 1-4**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202  
ATTN: Clayton Camozzi

**4-16s-16w Rush**

Job Ticket: 43514

**DST#: 1**

Test Start: 2011.07.19 @ 19:23:05

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

102000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	MW m=10% w=90%	2.320
15.00	WCMO w=20% m=30% o=50%	0.210

Total Length: 200.00 ft      Total Volume: 2.530 bbl

Num Fluid Samples: 0

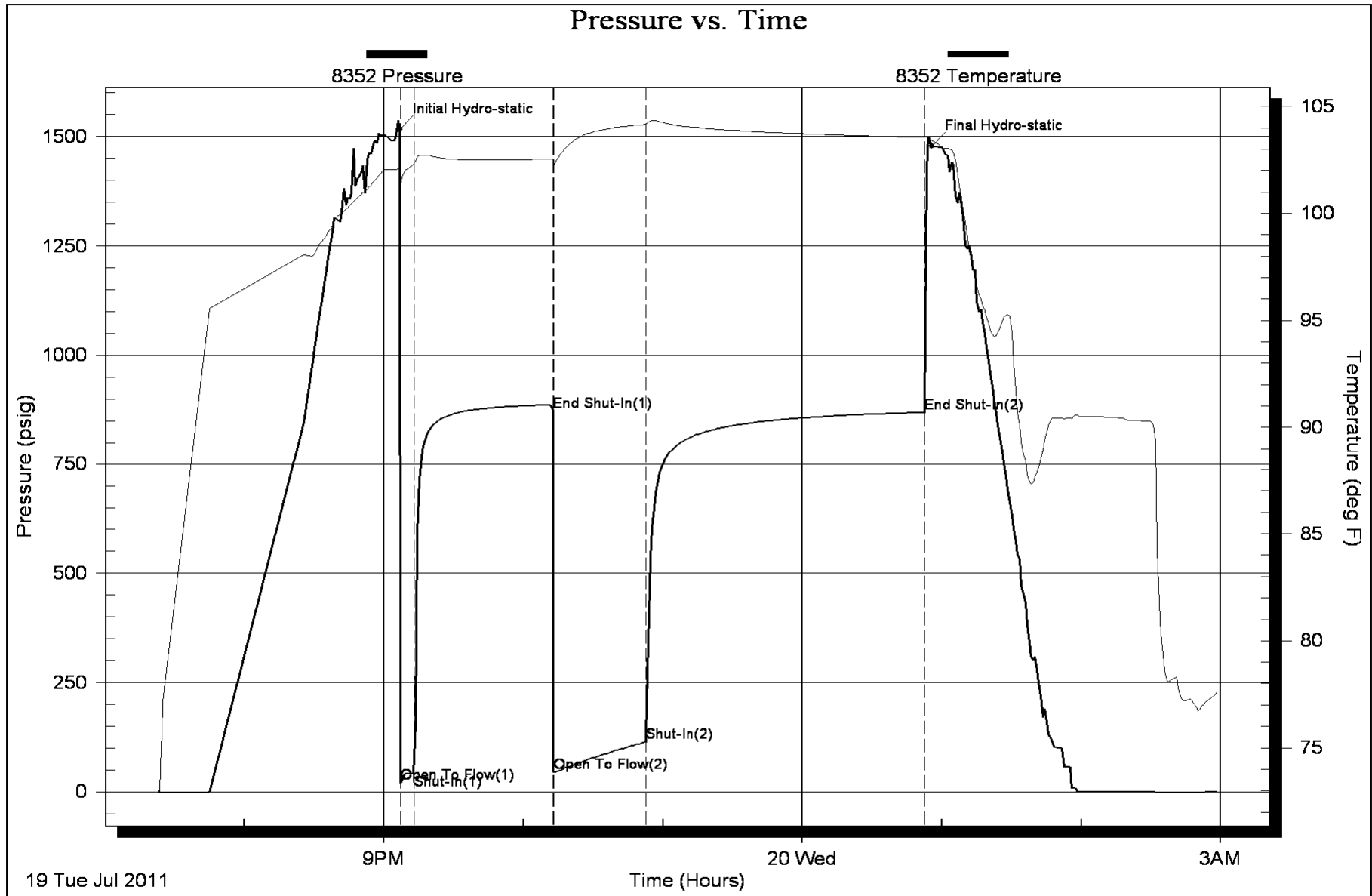
Num Gas Bombs: 0

Serial #:

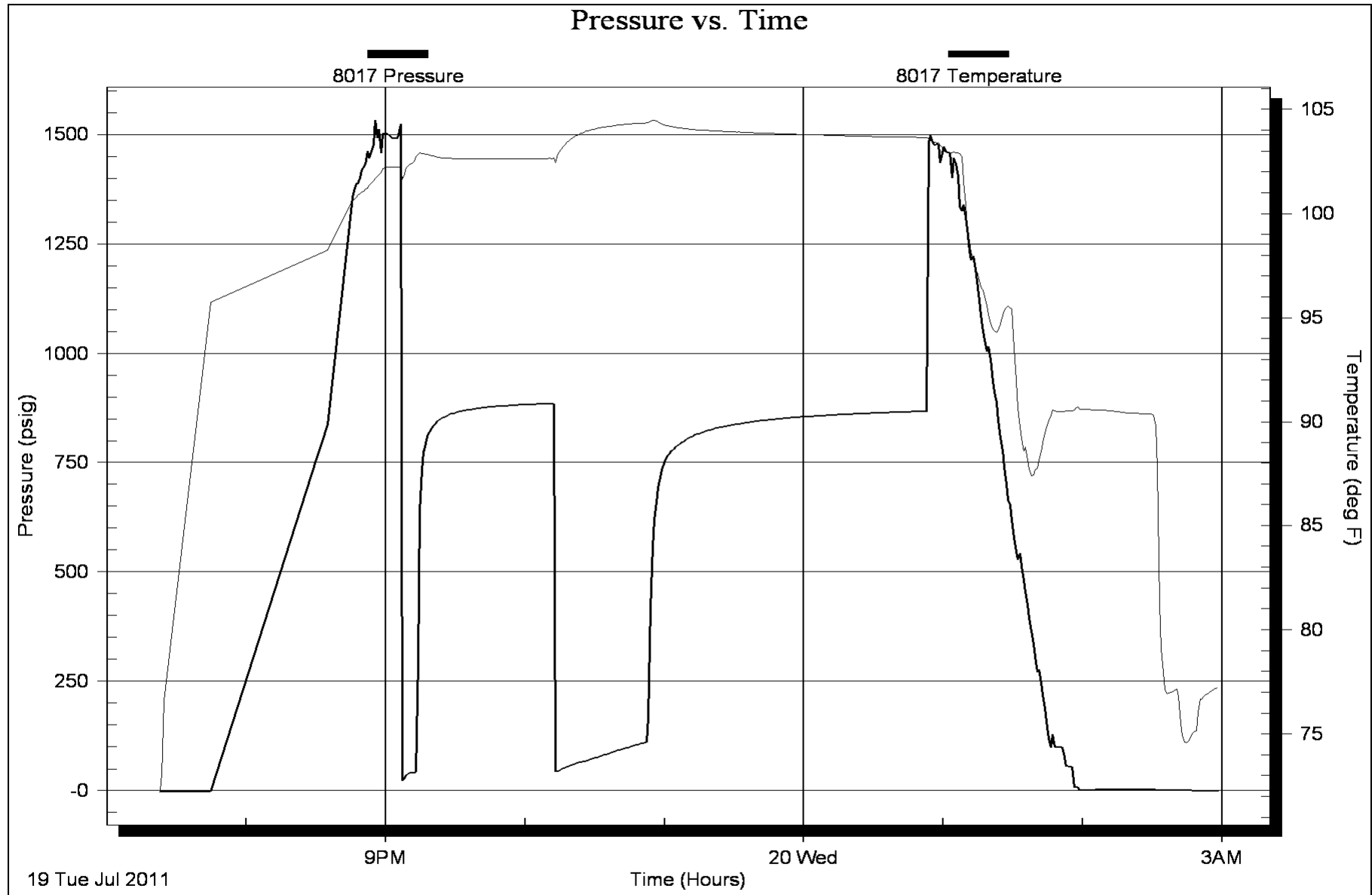
Laboratory Name:

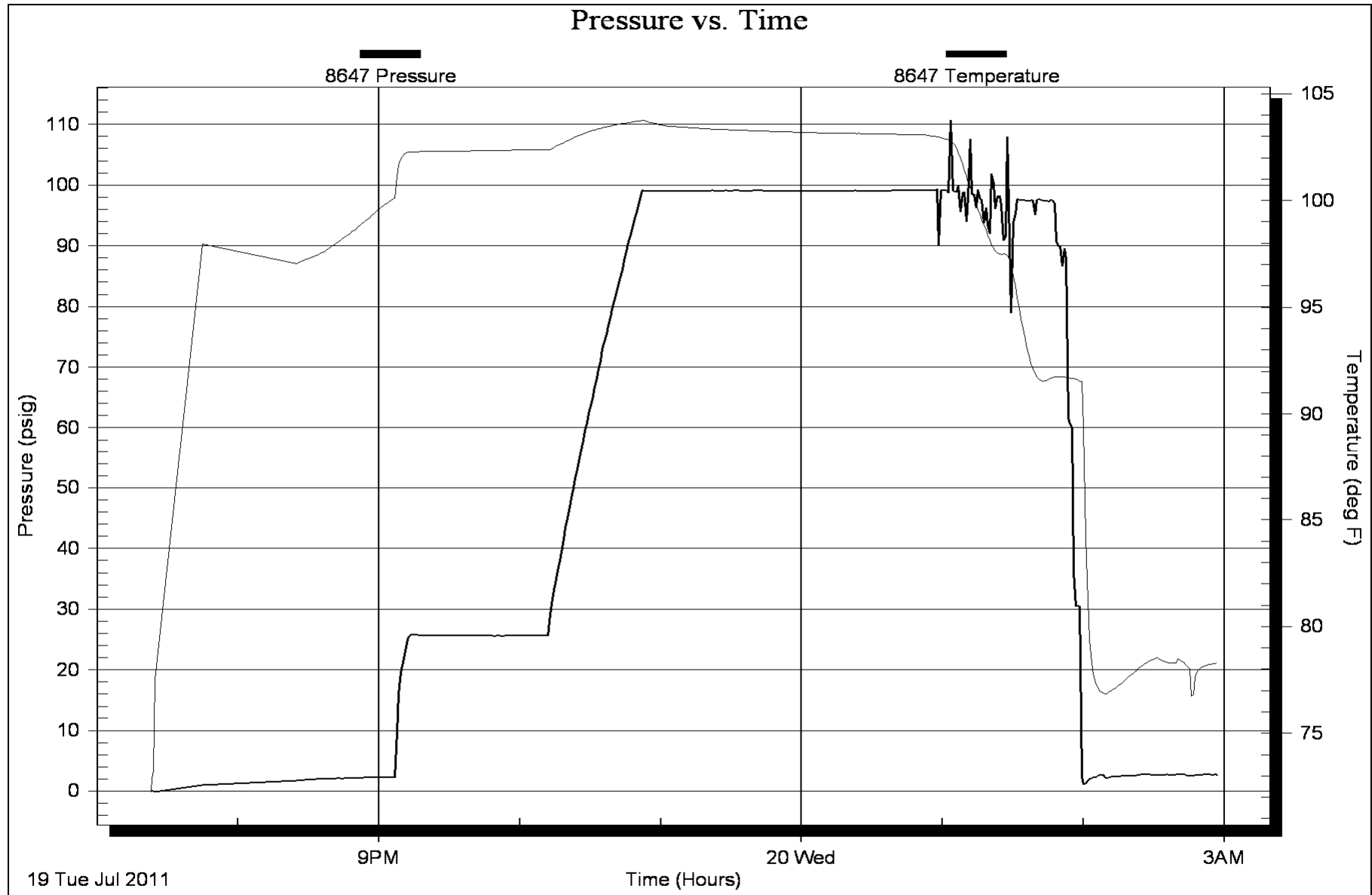
Laboratory Location:

Recovery Comments: Sampler Data- gas=1/2cf Oil=200ml w ater=1800ml Press=275lbs

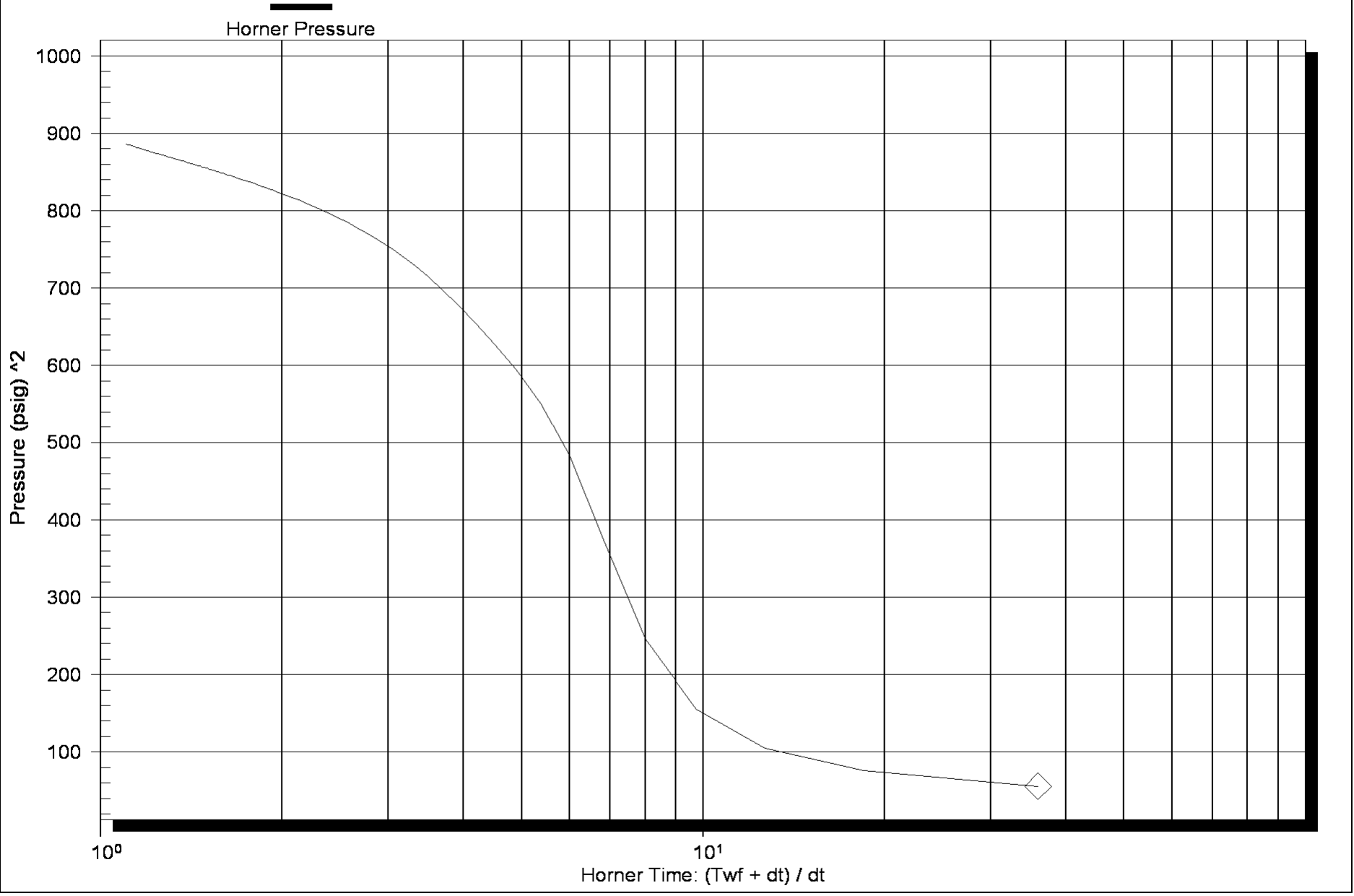




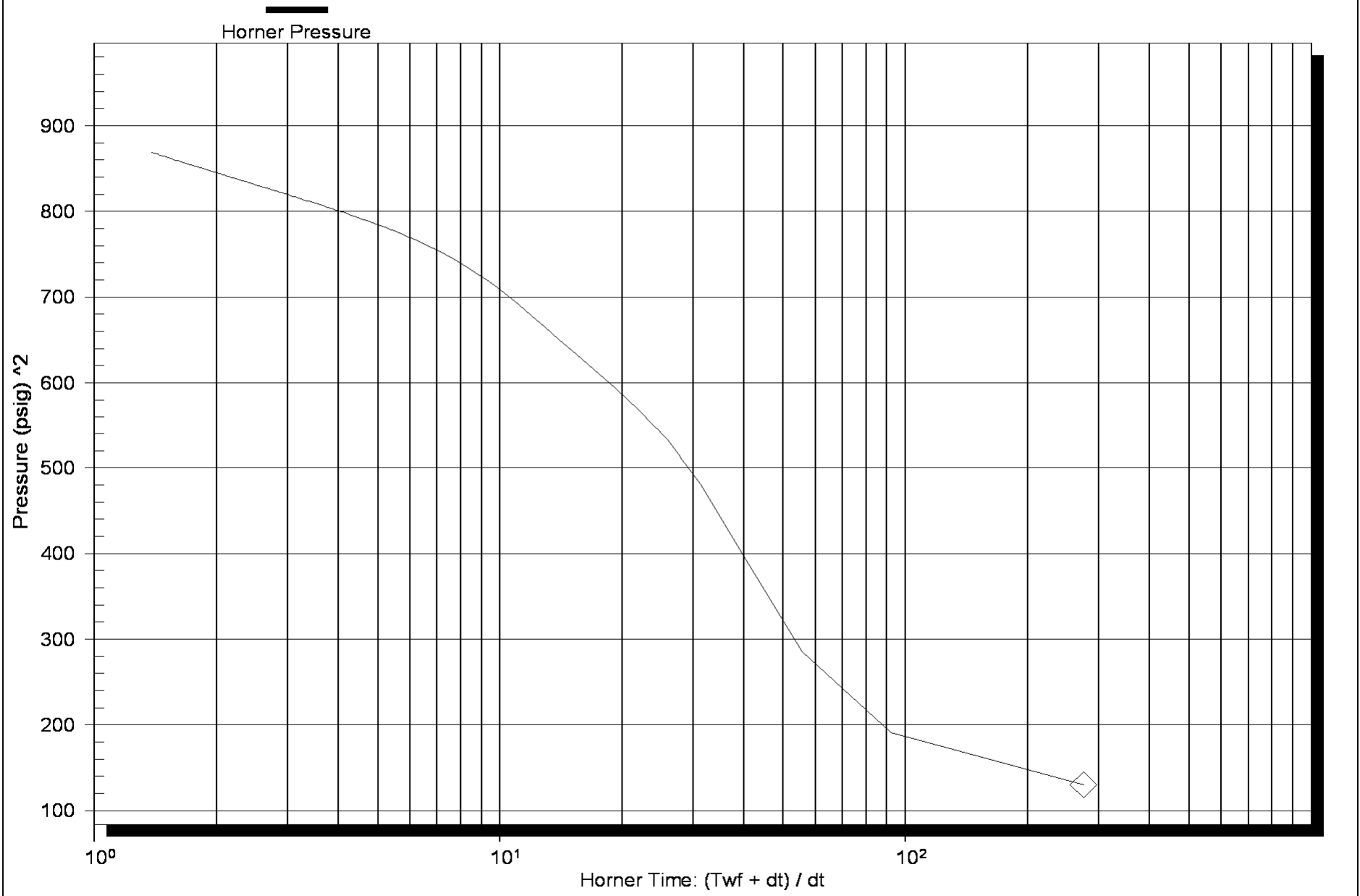


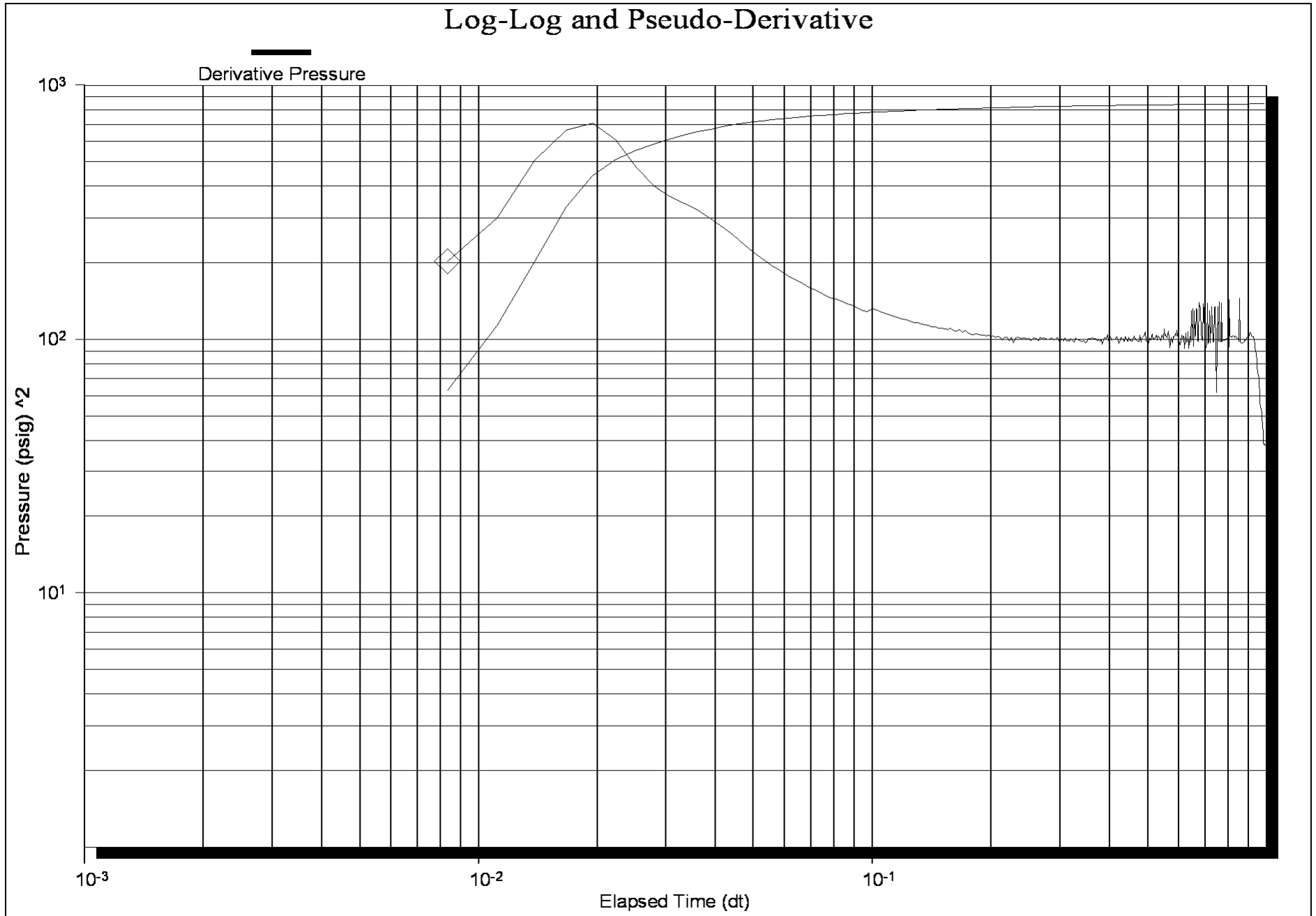


### Horner Plot

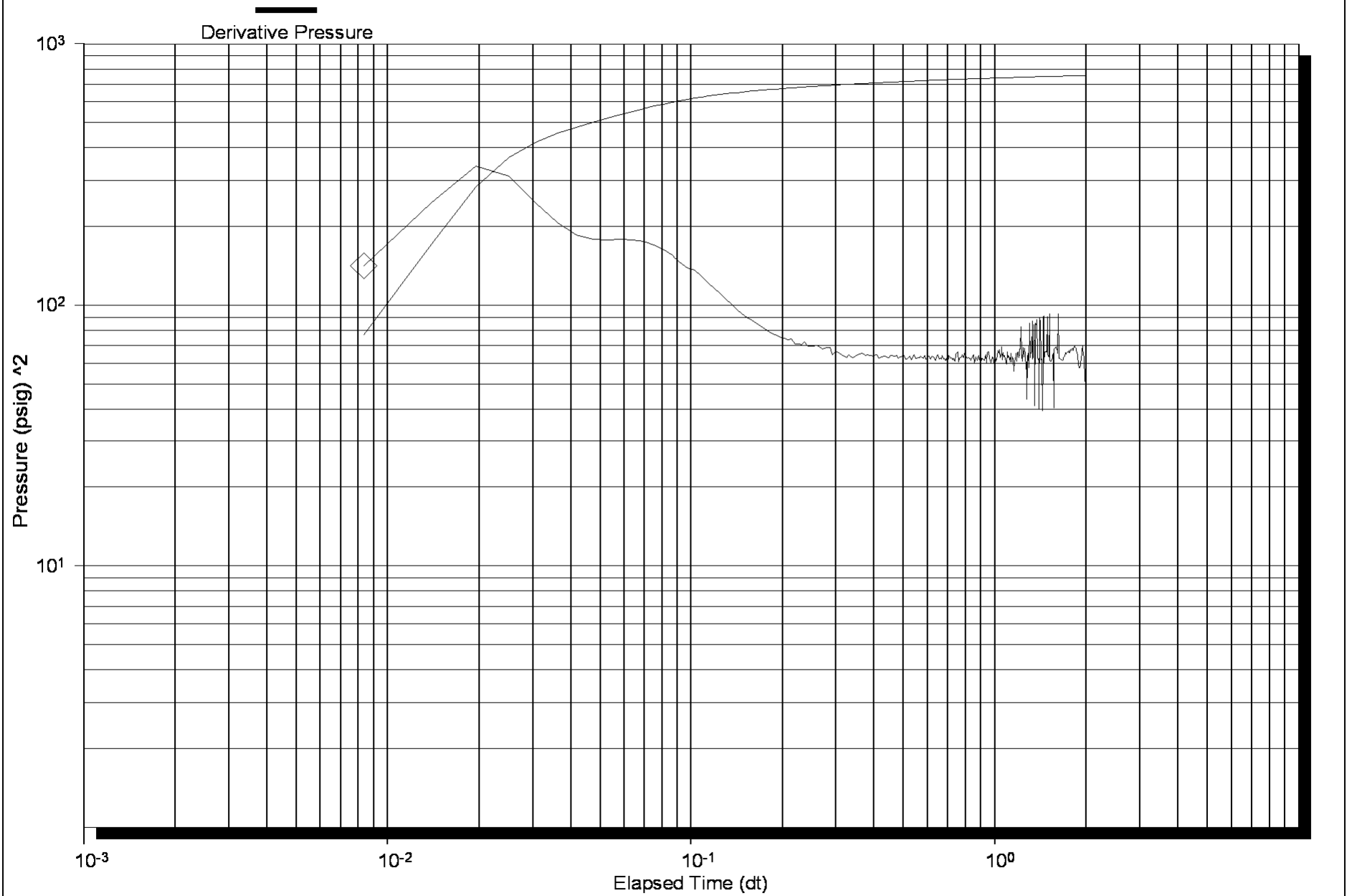


# Horner Plot





### Log-Log and Pseudo-Derivative





## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Assoc. inc**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202

ATTN: Clayton Camozzi

### **4-16s-16w Rush**

### **Bogleigh Wallah West TR 1-4**

Start Date: 2011.07.20 @ 12:28:05

End Date: 2011.07.20 @ 19:20:59

Job Ticket #: 43515                      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. & Assoc. inc

**Bogleigh Wallah West TR 1-4**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202  
ATTN: Clayton Camozzi

**4-16s-16w Rush**

Job Ticket: 43515

**DST#: 2**

Test Start: 2011.07.20 @ 12:28:05

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:09:10

Time Test Ended: 19:20:59

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

**Interval: 3248.00 ft (KB) To 3279.00 ft (KB) (TVD)**

Total Depth: 3279.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1915.00 ft (KB)

1907.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8352 Outside**

Press @ RunDepth: 62.01 psig @ 3249.00 ft (KB)

Start Date: 2011.07.20

End Date: 2011.07.20

Start Time: 12:28:05

End Time: 19:20:59

Capacity: 8000.00 psig

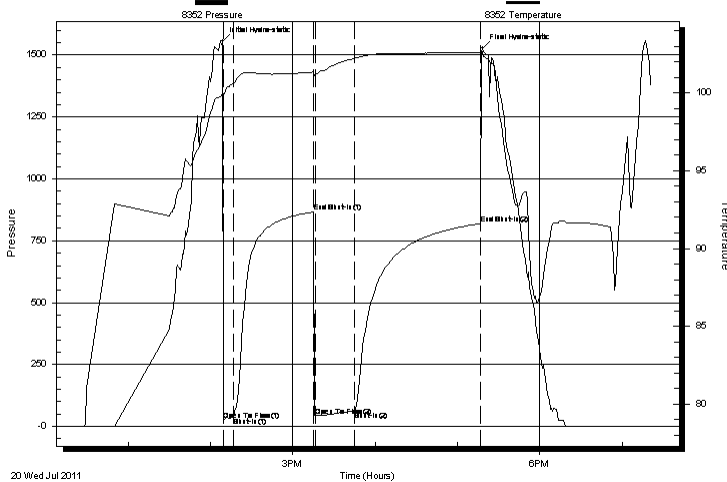
Last Calib.: 2011.07.20

Time On Btm: 2011.07.20 @ 14:08:50

Time Off Btm: 2011.07.20 @ 17:18:20

**TEST COMMENT:** IF:(5min) 3 inch blow  
IS:(60min) No Return  
FF:(30min) BOB, 4 min.  
FS:(90min)Return Blow , Built to 2 inches

Pressure vs. Time



## PRESSURE SUMMARY

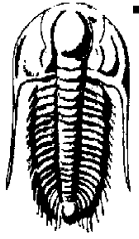
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1555.01	100.11	Initial Hydro-static
1	23.34	99.44	Open To Flow (1)
8	36.85	100.57	Shut-In(1)
67	866.59	101.34	End Shut-In(1)
68	41.69	101.13	Open To Flow (2)
97	62.01	102.21	Shut-In(2)
189	819.78	102.61	End Shut-In(2)
190	1526.51	102.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCWO g=20% m=15% w =20% o=45%	1.41
0.00	GIP=420ft	0.00

## Gas Rates

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



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# DRILL STEM TEST REPORT

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1515 Wynkoop St.  
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ATTN: Clayton Camozzi

**Bogleigh Wallah West TR 1-4**

**4-16s-16w Rush**

Job Ticket: 43515 **DST#: 2**

Test Start: 2011.07.20 @ 12:28:05

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:09:10

Time Test Ended: 19:20:59

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

**Interval: 3248.00 ft (KB) To 3279.00 ft (KB) (TVD)**

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3279.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8017 Inside**

Press @ RunDepth: psig @ 3249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.20 End Date: 2011.07.20

Last Calib.: 2011.07.20

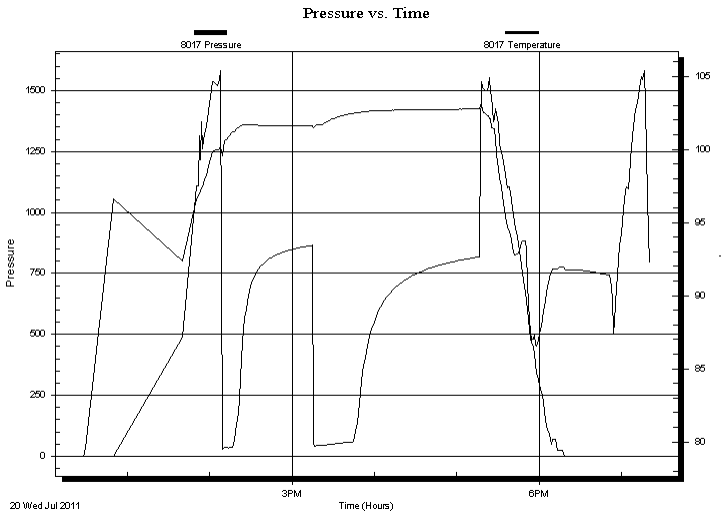
Start Time: 12:28:05 End Time: 19:20:50

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF:(5min) 3 inch blow  
IS:(60min) No Return  
FF:(30min) BOB, 4 min.  
FS:(90min)Return Blow , Built to 2 inches

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCWO g=20% m=15% w =20% o=45%	1.41
0.00	GIP=420ft	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. inc

**Bogleigh Wallah West TR 1-4**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202  
ATTN: Clayton Camozzi

**4-16s-16w Rush**

Job Ticket: 43515 **DST#: 2**  
Test Start: 2011.07.20 @ 12:28:05

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:09:10

Time Test Ended: 19:20:59

**Interval: 3248.00 ft (KB) To 3279.00 ft (KB) (TVD)**

Total Depth: 3279.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Reference Elevations: 1915.00 ft (KB)

1907.00 ft (CF)

KB to GR/CF: 8.00 ft

## Serial #: 8647 Fluid

Press @ RunDepth: psig @ 3214.00 ft (KB)

Start Date: 2011.07.20 End Date: 2011.07.20

Start Time: 12:28:05 End Time: 19:19:10

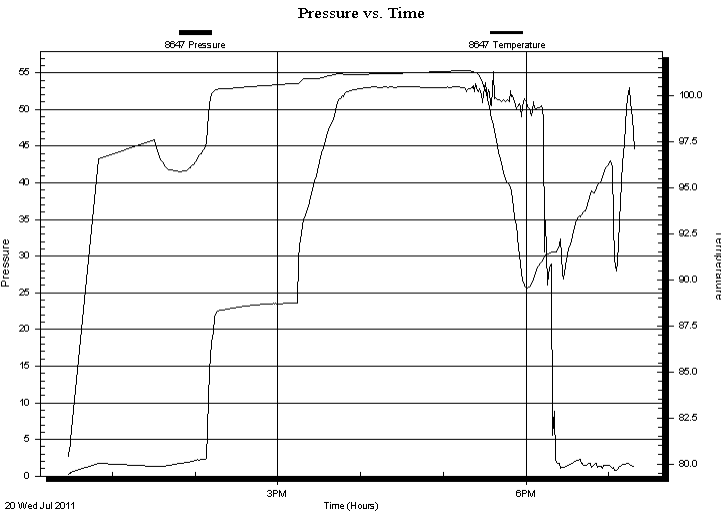
Capacity: 8000.00 psig

Last Calib.: 2011.07.20

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF:(5min) 3 inch blow  
IS:(60min) No Return  
FF:(30min) BOB, 4 min.  
FS:(90min) Return Blow , Built to 2 inches



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCWO g=20% m=15% w =20% o=45%	1.41
0.00	GIP=420ft	0.00

## Gas Rates

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



**TRILOBITE  
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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. & Assoc. inc

**Bogleigh Wallah West TR 1-4**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202  
ATTN: Clayton Camozzi

**4-16s-16w Rush**

Job Ticket: 43515

**DST#: 2**

Test Start: 2011.07.20 @ 12:28:05

## Tool Information

Drill Pipe:	Length: 3190.00 ft	Diameter: 3.80 inches	Volume: 44.75 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 30.15 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 44.90 bbl</u>	Tool Chased	4.00 ft
Drill Pipe Above KB:	7.15 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3248.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	31.00 ft				
Tool Length:	66.00 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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Change Over Sub	1.00			3214.00	
Recorder	0.00	8647	Fluid	3214.00	
Blank Spacing	5.00			3219.00	
Shut In Tool	5.00			3224.00	
Sampler	2.00			3226.00	
Hydraulic tool	5.00			3231.00	
Jars	5.00			3236.00	
Safety Joint	3.00			3239.00	
Packer	5.00			3244.00	35.00 Bottom Of Top Packer
Packer	4.00			3248.00	
Stubb	1.00			3249.00	
Recorder	0.00	8017	Inside	3249.00	
Recorder	0.00	8352	Outside	3249.00	
Perforations	27.00			3276.00	
Bullnose	3.00			3279.00	31.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Assoc. inc

**Bogleigh Wallah West TR 1-4**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202  
ATTN: Clayton Camozzi

**4-16s-16w Rush**

Job Ticket: 43515

**DST#: 2**

Test Start: 2011.07.20 @ 12:28:05

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 9.55 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 8300.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 37 deg API

Water Salinity: 88000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GMCWO g=20% m=15% w =20% o=45%	1.409
0.00	GIP=420ft	0.000

Total Length: 120.00 ft Total Volume: 1.409 bbl

Num Fluid Samples: 0

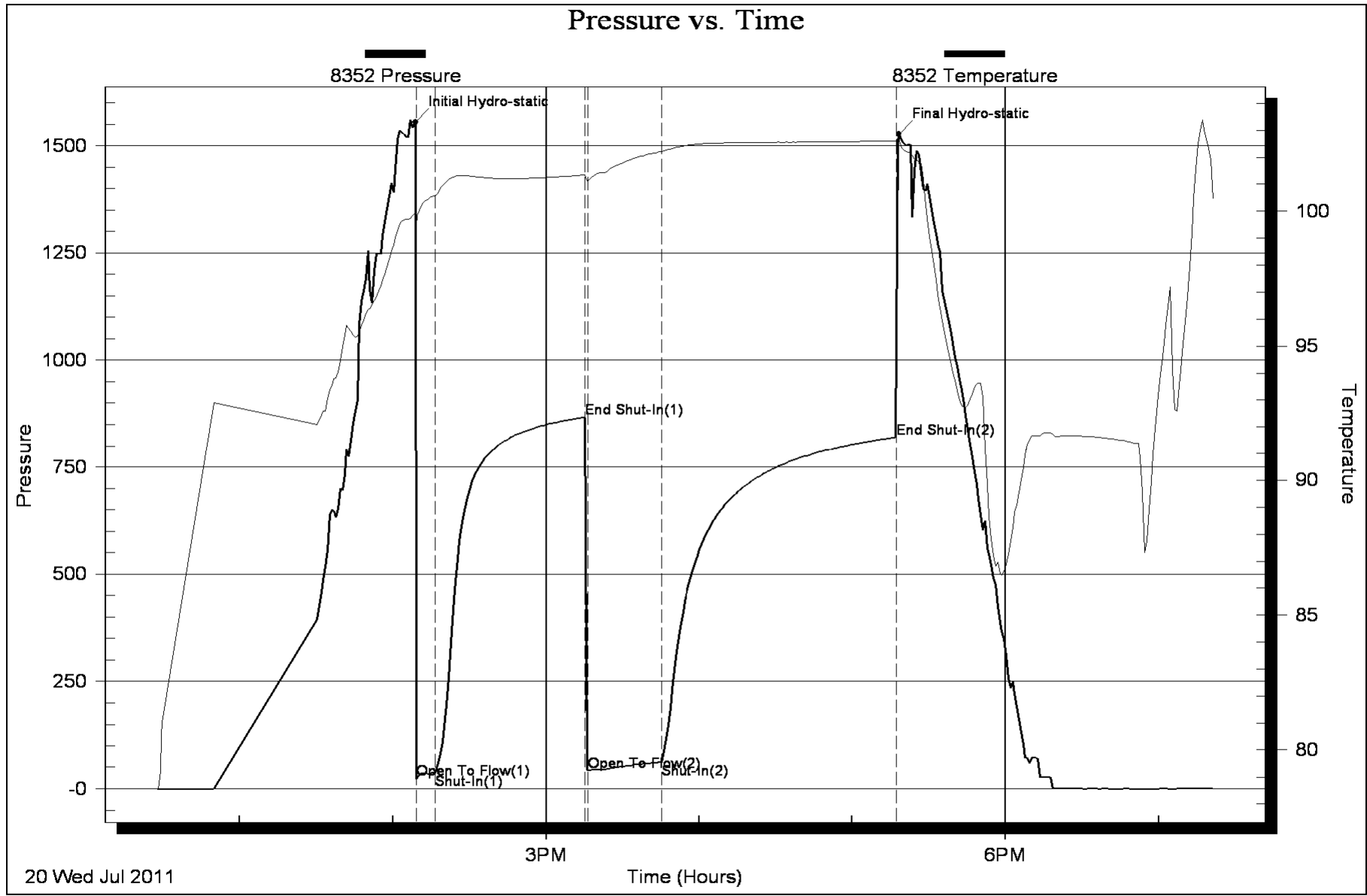
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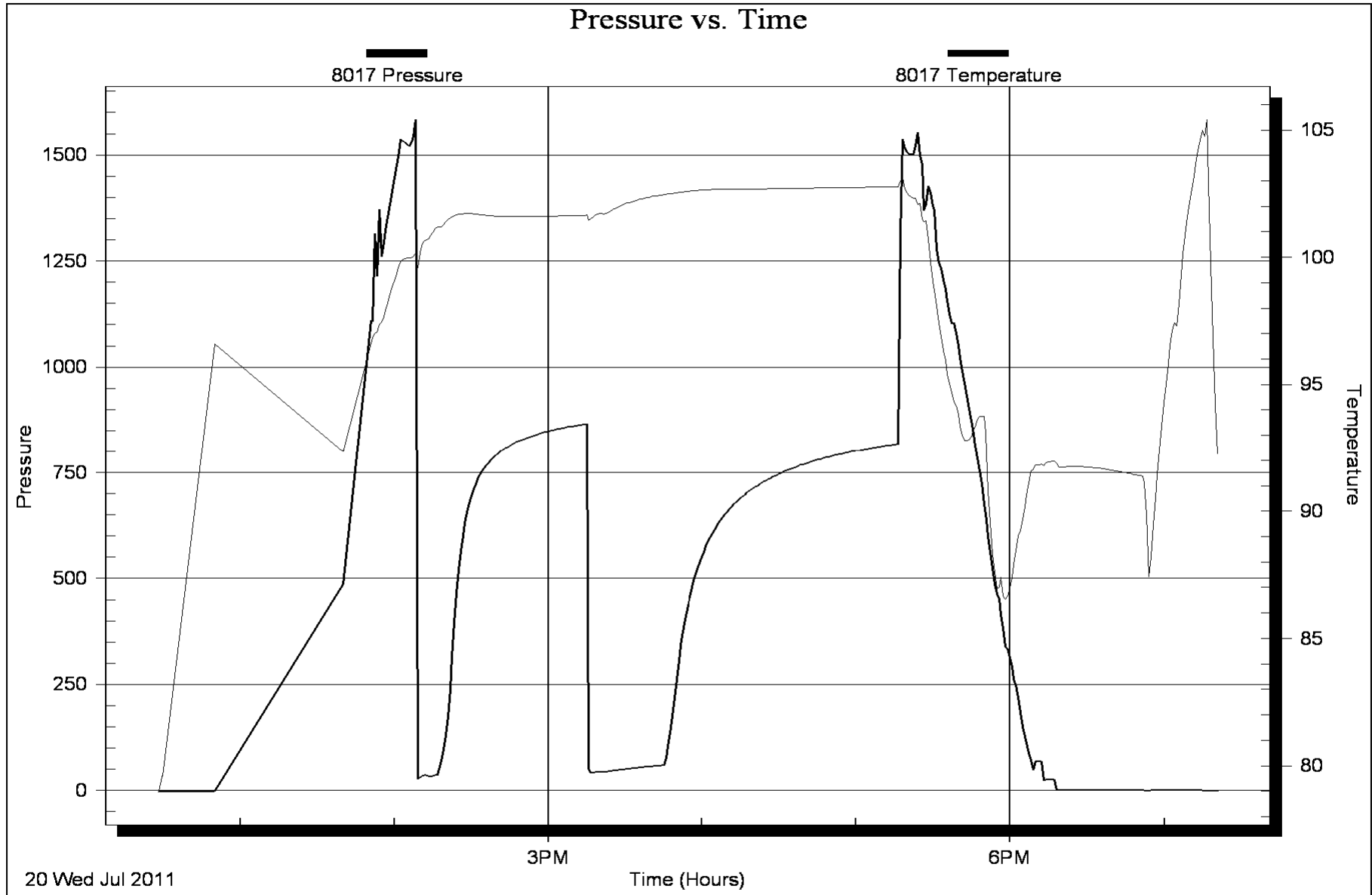
Serial #:

Laboratory Name:

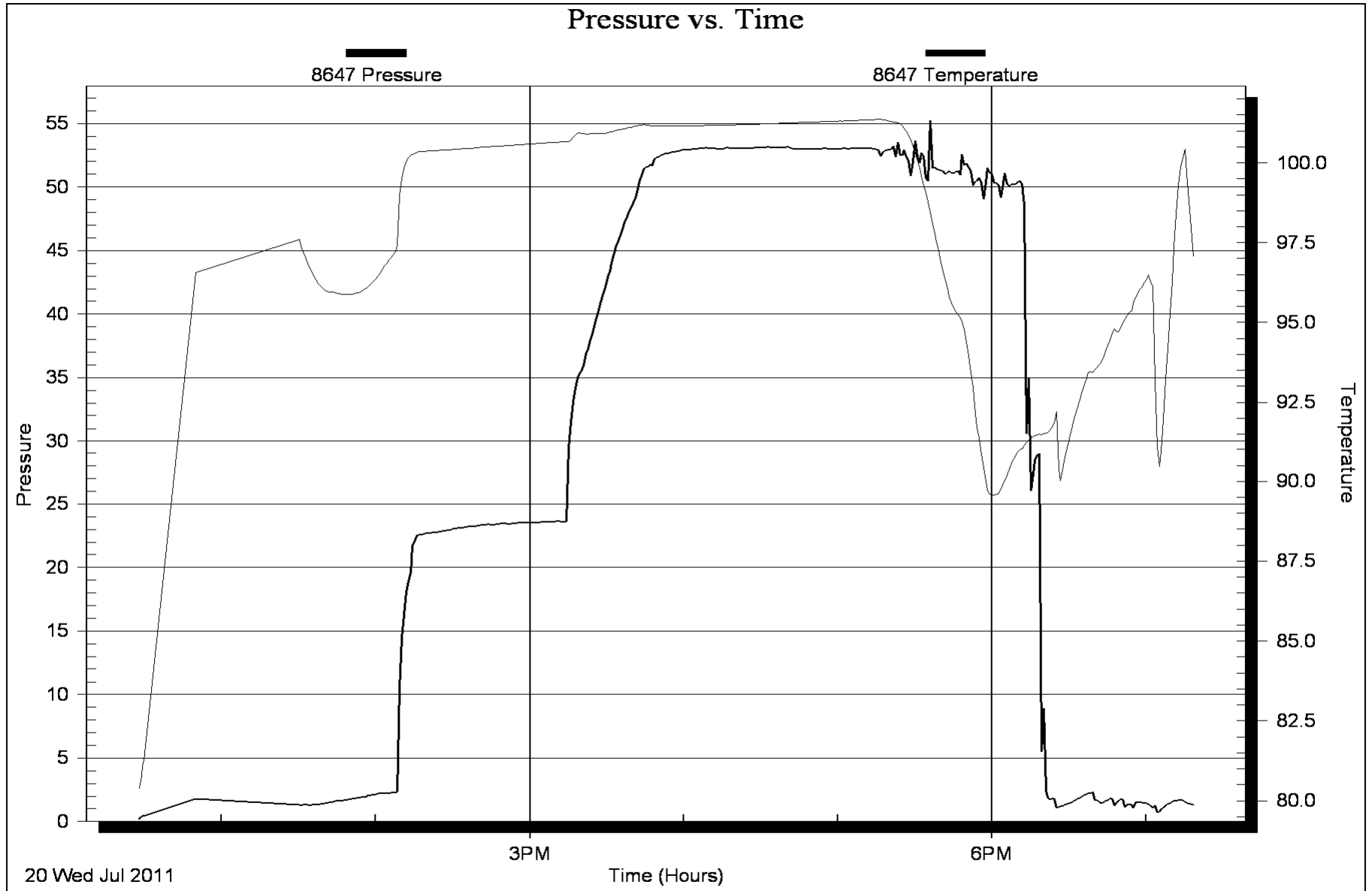
Laboratory Location:

Recovery Comments: Sampler Data- gas=2.2cf w ater=800ml oil=1200ml pressure=375lbs

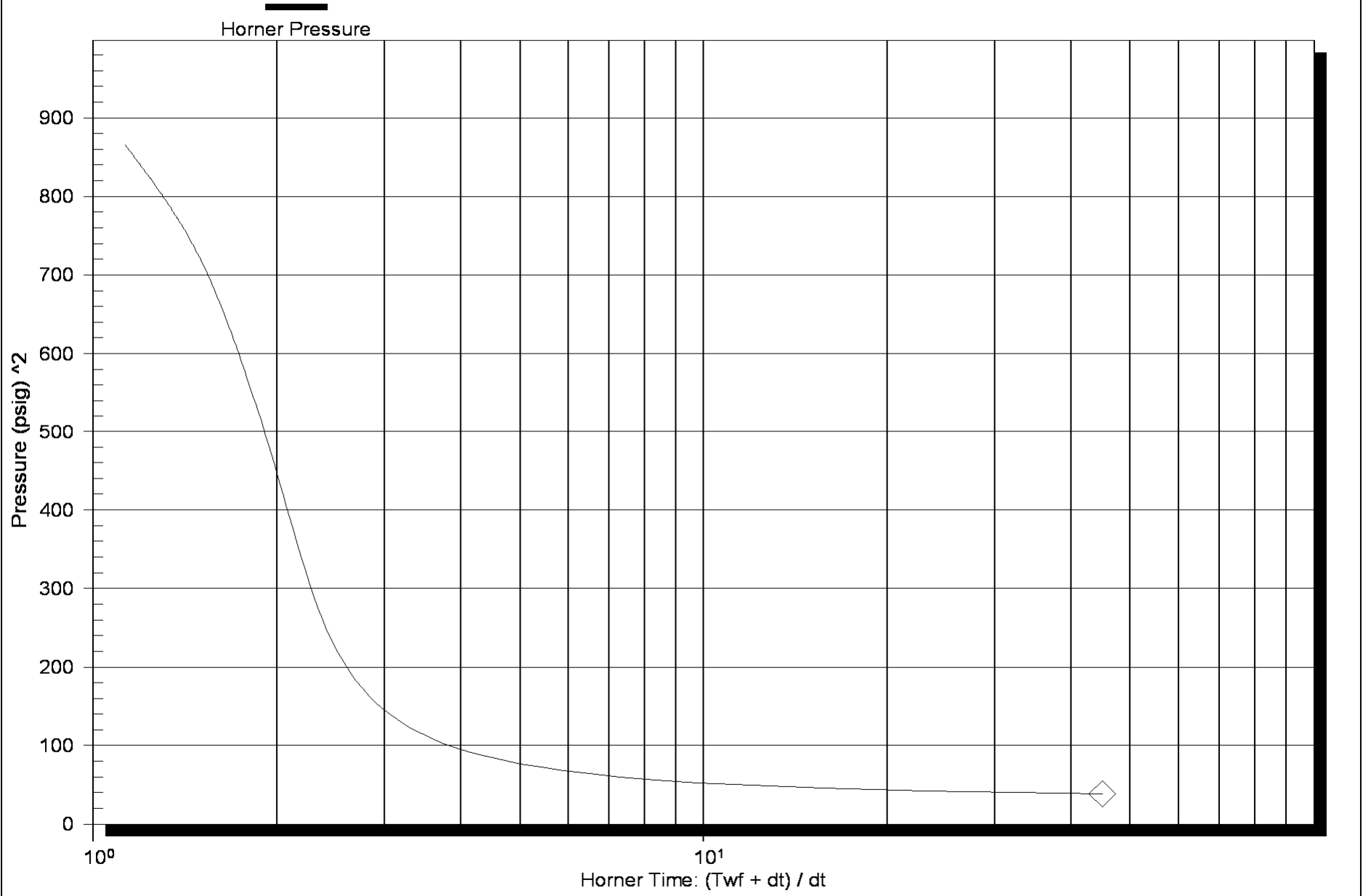




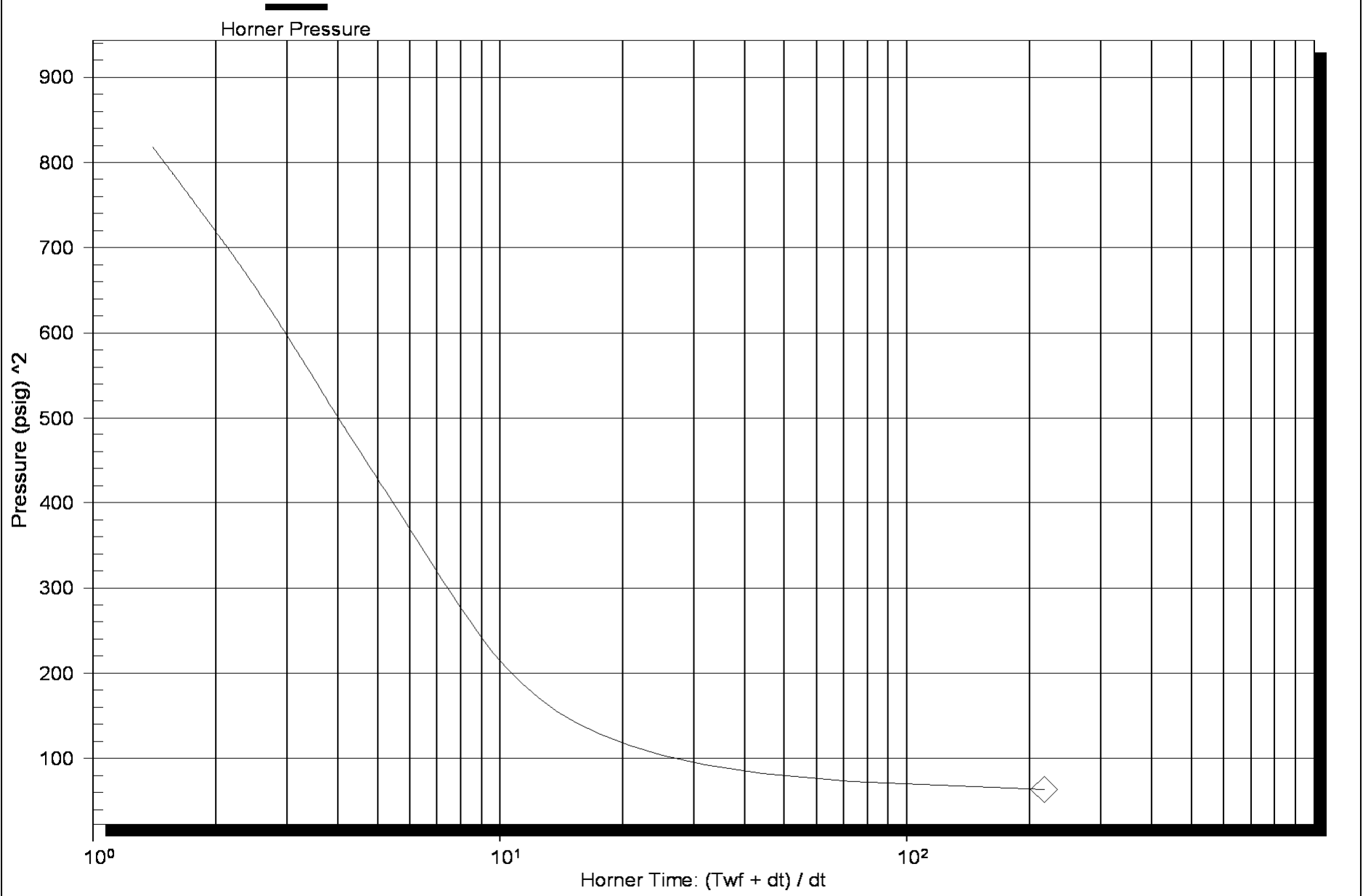




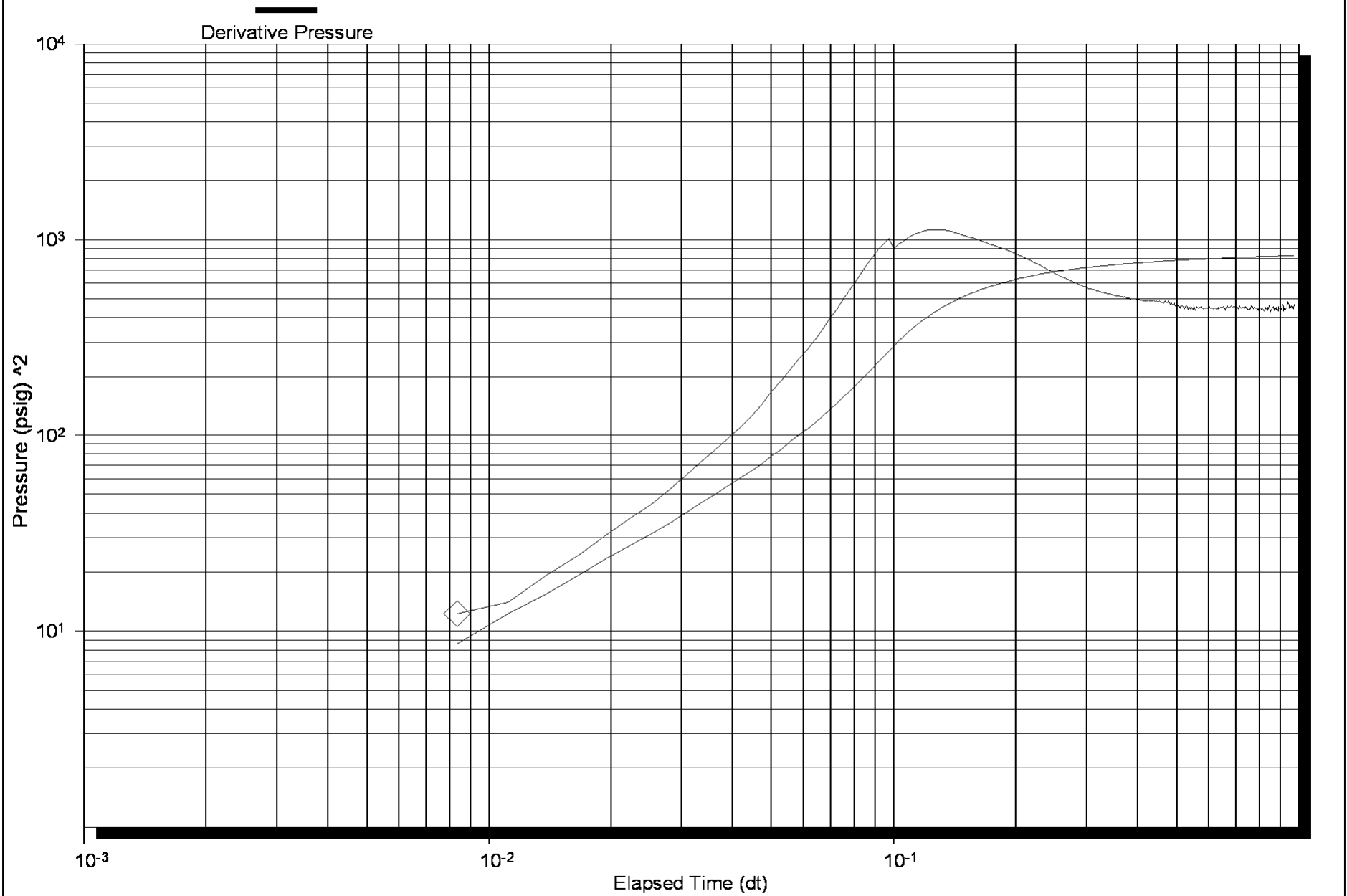
# Horner Plot



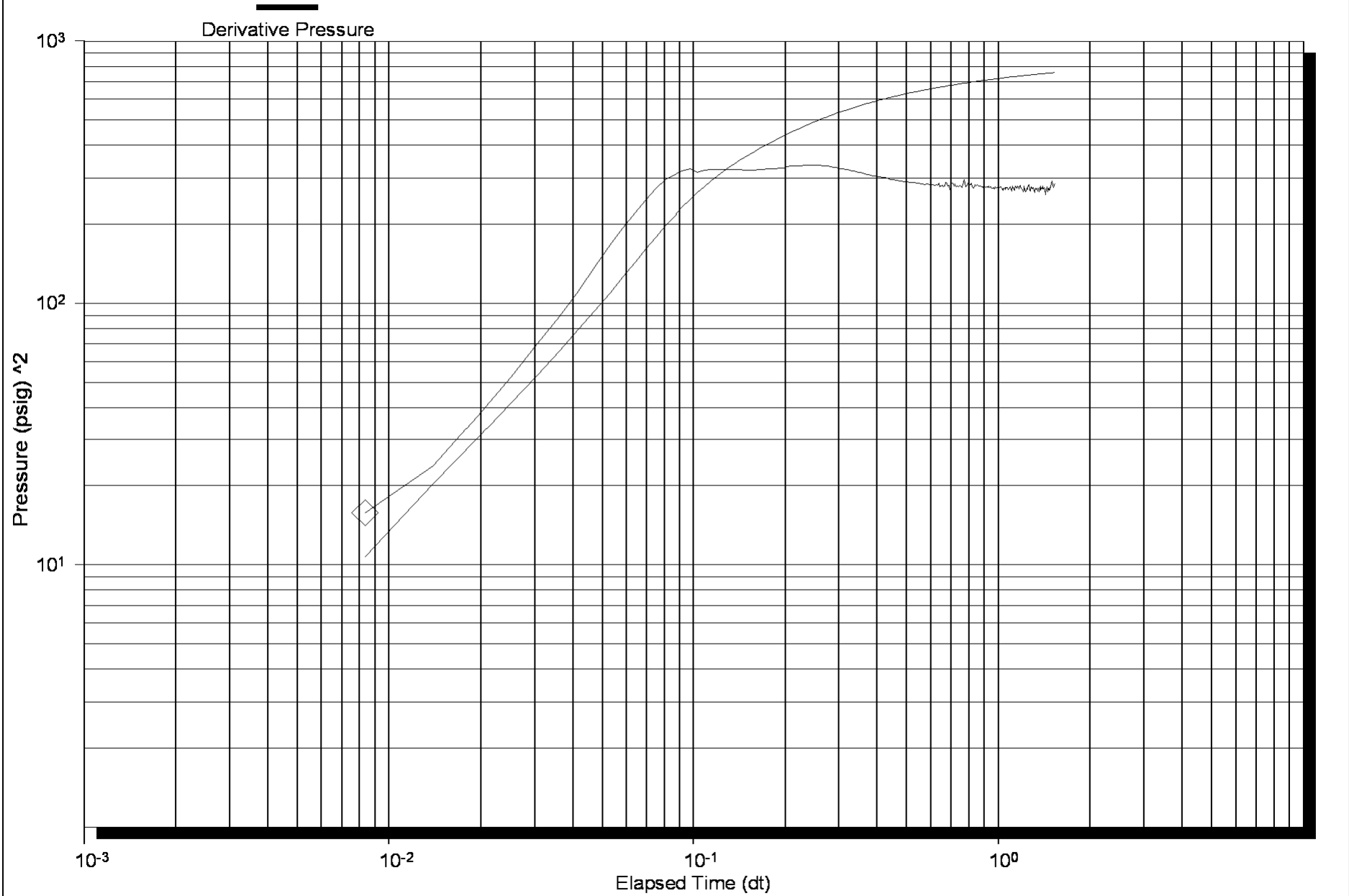
# Horner Plot



### Log-Log and Pseudo-Derivative



### Log-Log and Pseudo-Derivative





## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Assoc. inc**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202

ATTN: Clayton Camozzi

### **4-16s-16w Rush**

#### **Bogleigh Wallah West TR 1-4**

Start Date: 2011.07.21 @ 11:23:05

End Date: 2011.07.21 @ 17:53:29

Job Ticket #: 43516                      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. & Assoc. inc

**Bogleigh Wallah West TR 1-4**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202  
ATTN: Clayton Camozzi

**4-16s-16w Rush**

Job Ticket: 43516

**DST#: 3**

Test Start: 2011.07.21 @ 11:23:05

## GENERAL INFORMATION:

Formation: **LKC"H,I,J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:07:00

Time Test Ended: 17:53:29

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

**Interval: 3345.00 ft (KB) To 3388.00 ft (KB) (TVD)**

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3388.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8352 Outside**

Press @ Run Depth: 48.31 psig @ 3349.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.21

End Date:

2011.07.21

Last Calib.: 2011.07.21

Start Time: 11:23:05

End Time:

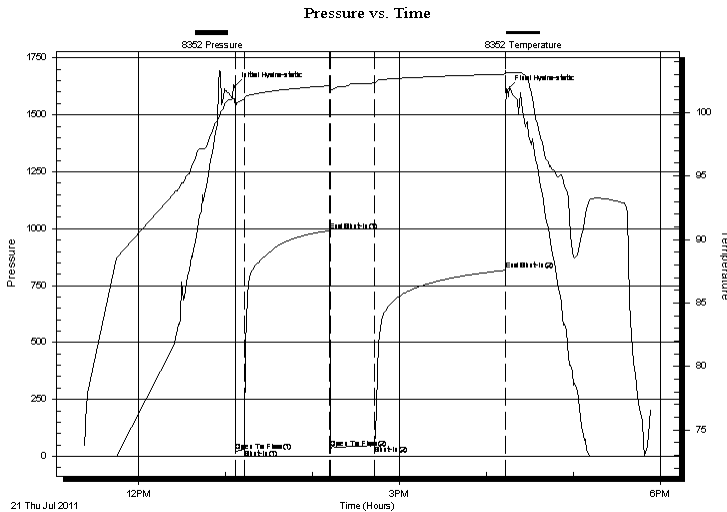
17:53:29

Time On Btm: 2011.07.21 @ 13:06:30

Time Off Btm: 2011.07.21 @ 16:14:39

**TEST COMMENT:** IF:(5min) 1 inch blow  
IS:(60min) No Return  
FF:(30min) 1 inch blow  
FS:(90min) No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.77	101.11	Initial Hydro-static
1	19.78	100.35	Open To Flow (1)
7	31.98	101.04	Shut-In(1)
66	991.79	102.10	End Shut-In(1)
66	35.39	101.59	Open To Flow (2)
97	48.31	102.33	Shut-In(2)
187	817.00	103.02	End Shut-In(2)
189	1610.89	103.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud	0.43

## Gas Rates

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







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# DRILL STEM TEST REPORT

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ATTN: Clayton Camozzi

**Bogleigh Wallah West TR 1-4**

**4-16s-16w Rush**

Job Ticket: 43516      **DST#: 3**  
Test Start: 2011.07.21 @ 11:23:05

### GENERAL INFORMATION:

Formation: **LKC"H,I,J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:07:00

Time Test Ended: 17:53:29

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

**Interval: 3345.00 ft (KB) To 3388.00 ft (KB) (TVD)**

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3388.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8647 Fluid**

Press @ Run Depth:      psig @ 3311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.21

End Date:

2011.07.21

Last Calib.:

2011.07.21

Start Time: 11:23:05

End Time:

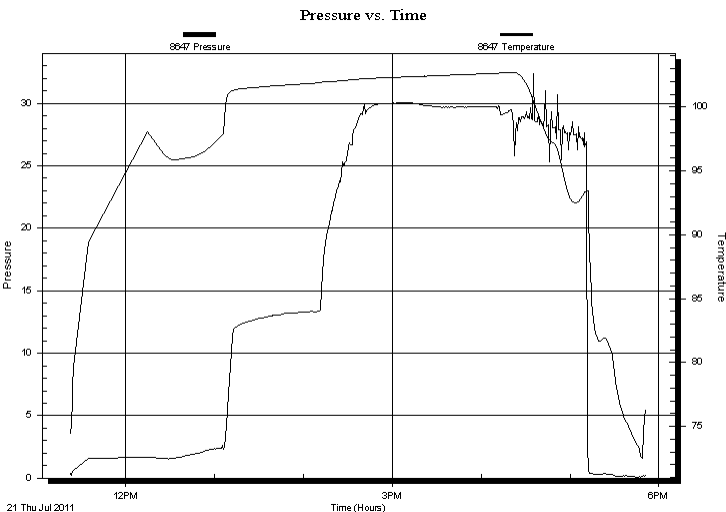
17:51:59

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF:(5min) 1 inch blow  
IS:(60min) No Return  
FF:(30min) 1 inch blow  
FS:(90min) No Return

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud	0.43

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. & Assoc. inc

**Bogleigh Wallah West TR 1-4**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202  
ATTN: Clayton Camozzi

**4-16s-16w Rush**

Job Ticket: 43516

**DST#: 3**

Test Start: 2011.07.21 @ 11:23:05

## Tool Information

Drill Pipe:	Length: 3311.00 ft	Diameter: 3.80 inches	Volume: 46.44 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 30.15 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.15 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3345.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3311.00	
Recorder	0.00	8647	Fluid	3311.00	
Blank Spacing	5.00			3316.00	
Shut In Tool	5.00			3321.00	
Sampler	2.00			3323.00	
Hydraulic tool	5.00			3328.00	
Jars	5.00			3333.00	
Safety Joint	3.00			3336.00	
Packer	5.00			3341.00	35.00 Bottom Of Top Packer
Packer	4.00			3345.00	
Stubb	1.00			3346.00	
Perforations	2.00			3348.00	
Change Over Sub	1.00			3349.00	
Recorder	0.00	8017	Inside	3349.00	
Recorder	0.00	8352	Outside	3349.00	
Drill Pipe	31.00			3380.00	
Change Over Sub	1.00			3381.00	
Perforations	4.00			3385.00	
Bullnose	3.00			3388.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 78.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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**Bogleigh Wallah West TR 1-4**

1515 Wynkoop St.  
Suite 700  
Denver Co. 80202  
ATTN: Clayton Camozzi

**4-16s-16w Rush**

Job Ticket: 43516

**DST#: 3**

Test Start: 2011.07.21 @ 11:23:05

## 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Mud	0.427

Total Length: 50.00 ft      Total Volume: 0.427 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

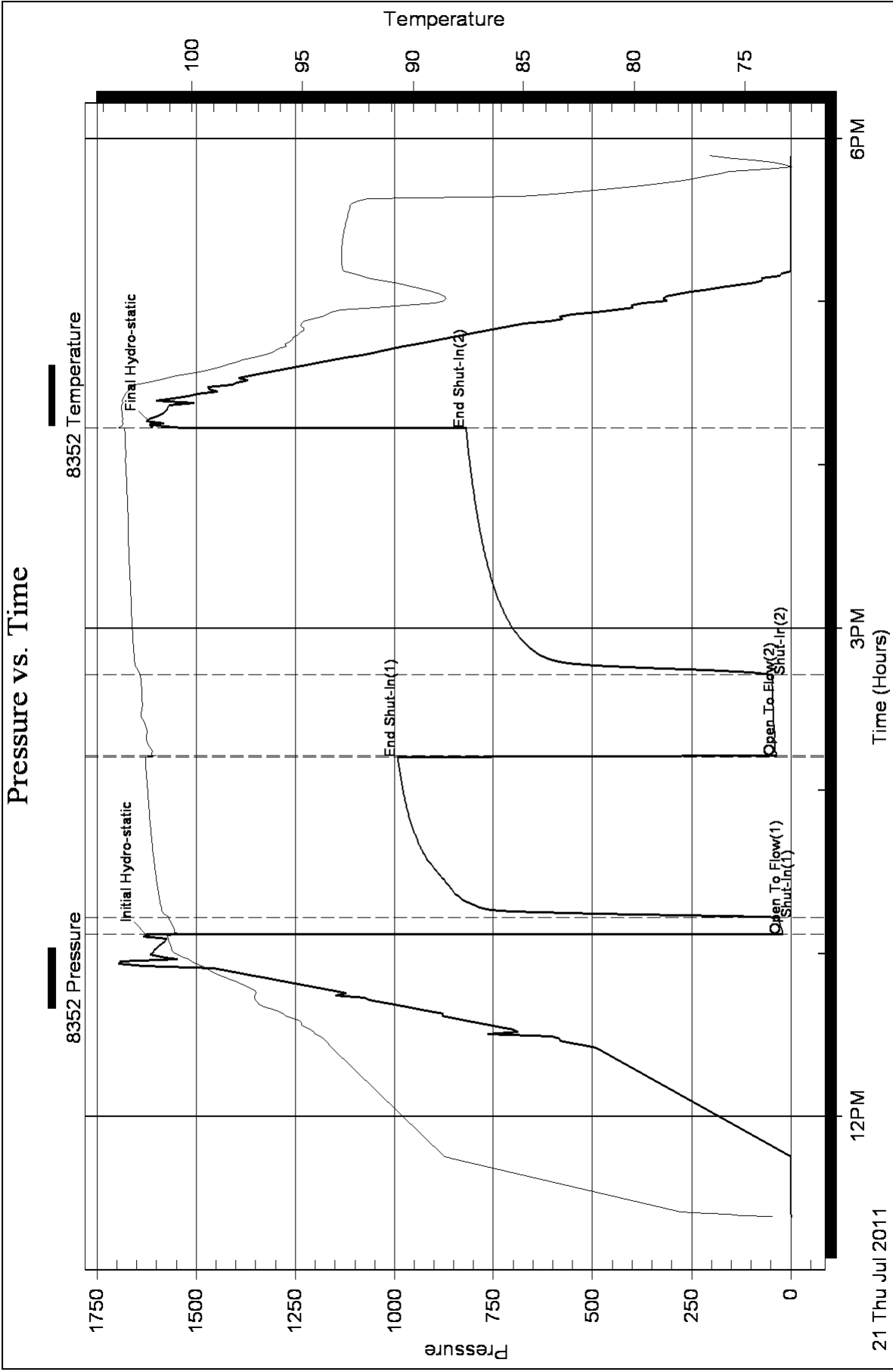
Serial #:

Laboratory Name:

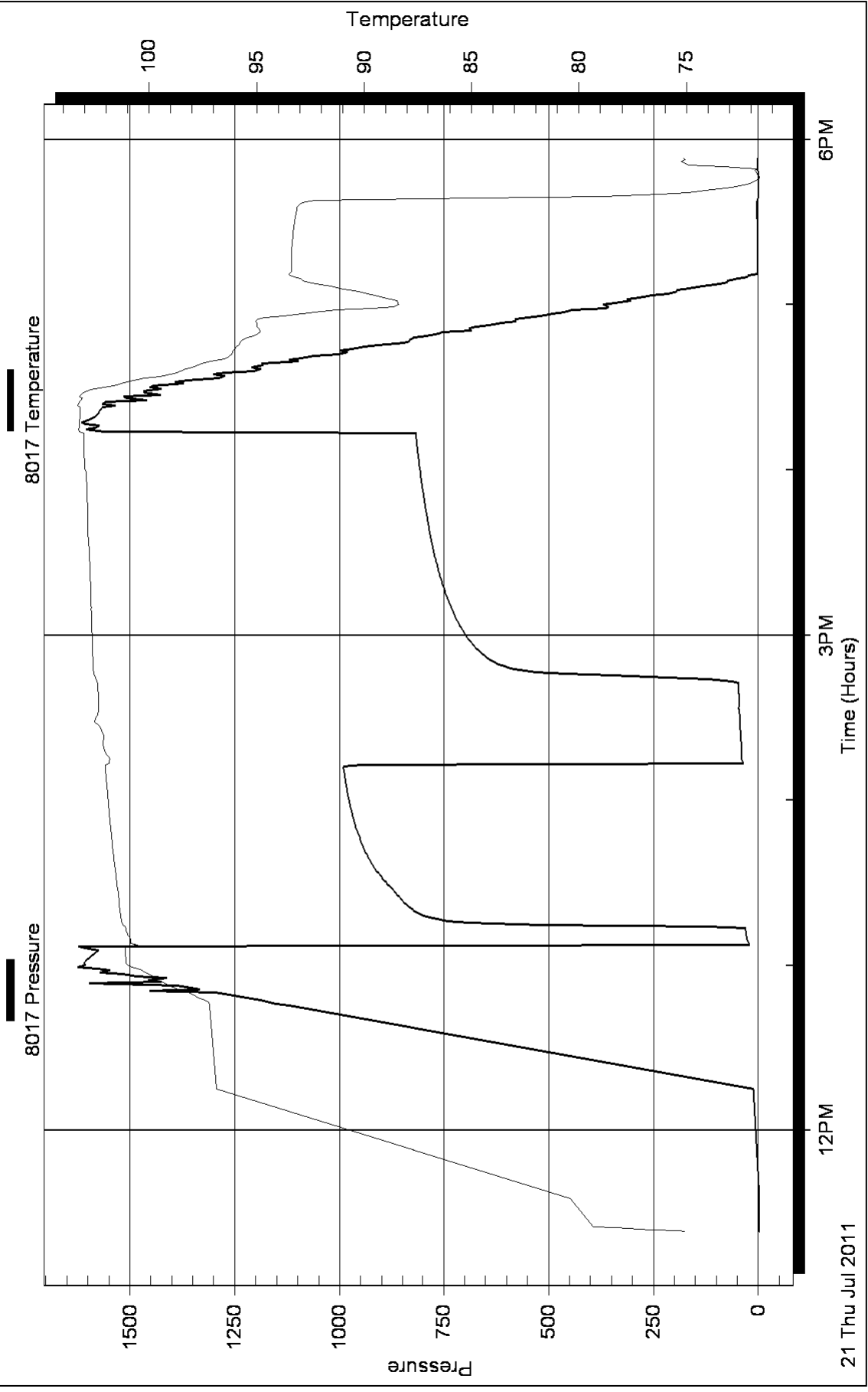
Laboratory Location:

Recovery Comments: Sampler Data- Mud=200ml Pressure=145lbs

### Pressure vs. Time



### Pressure vs. Time



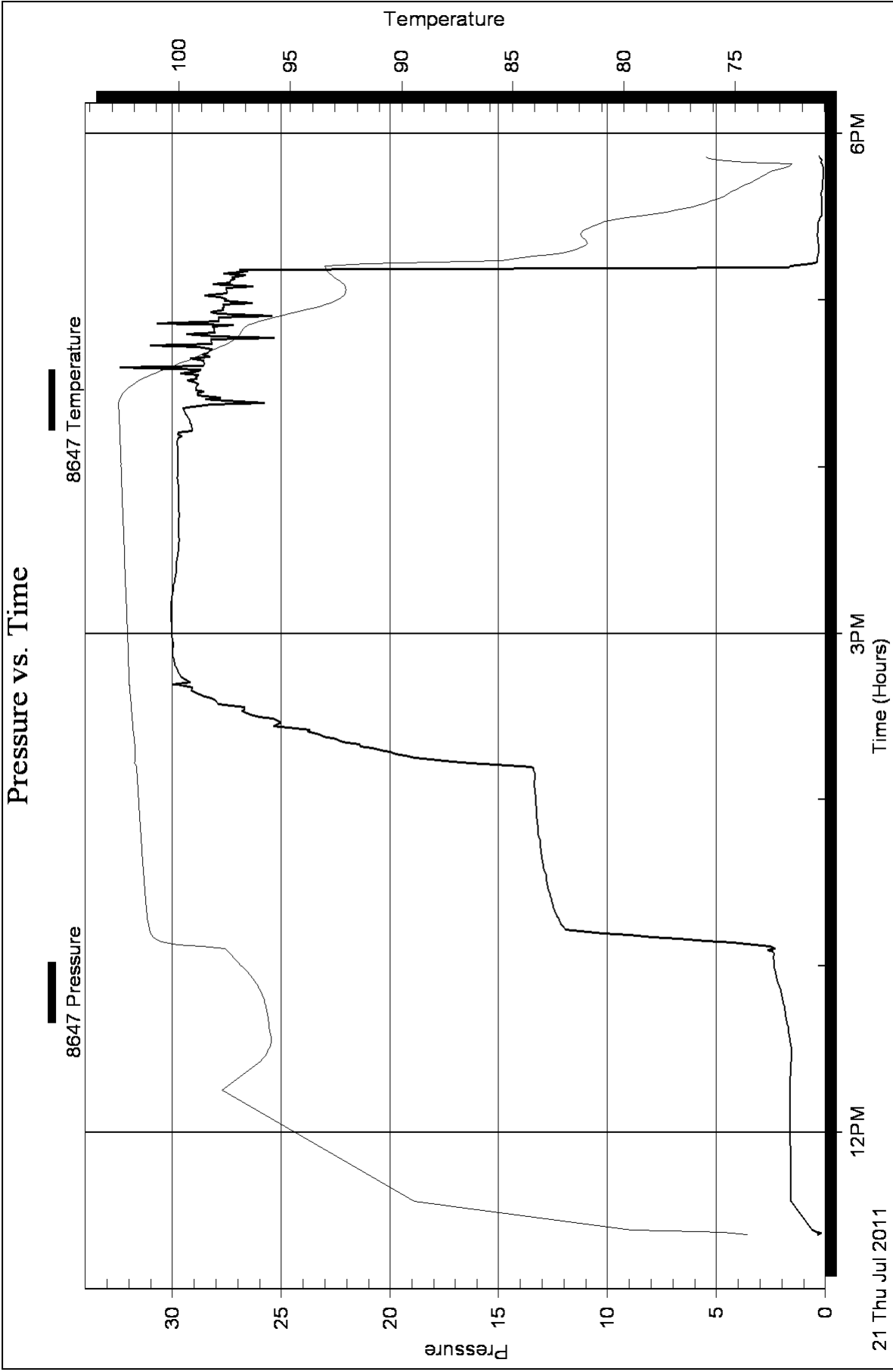
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Fluid

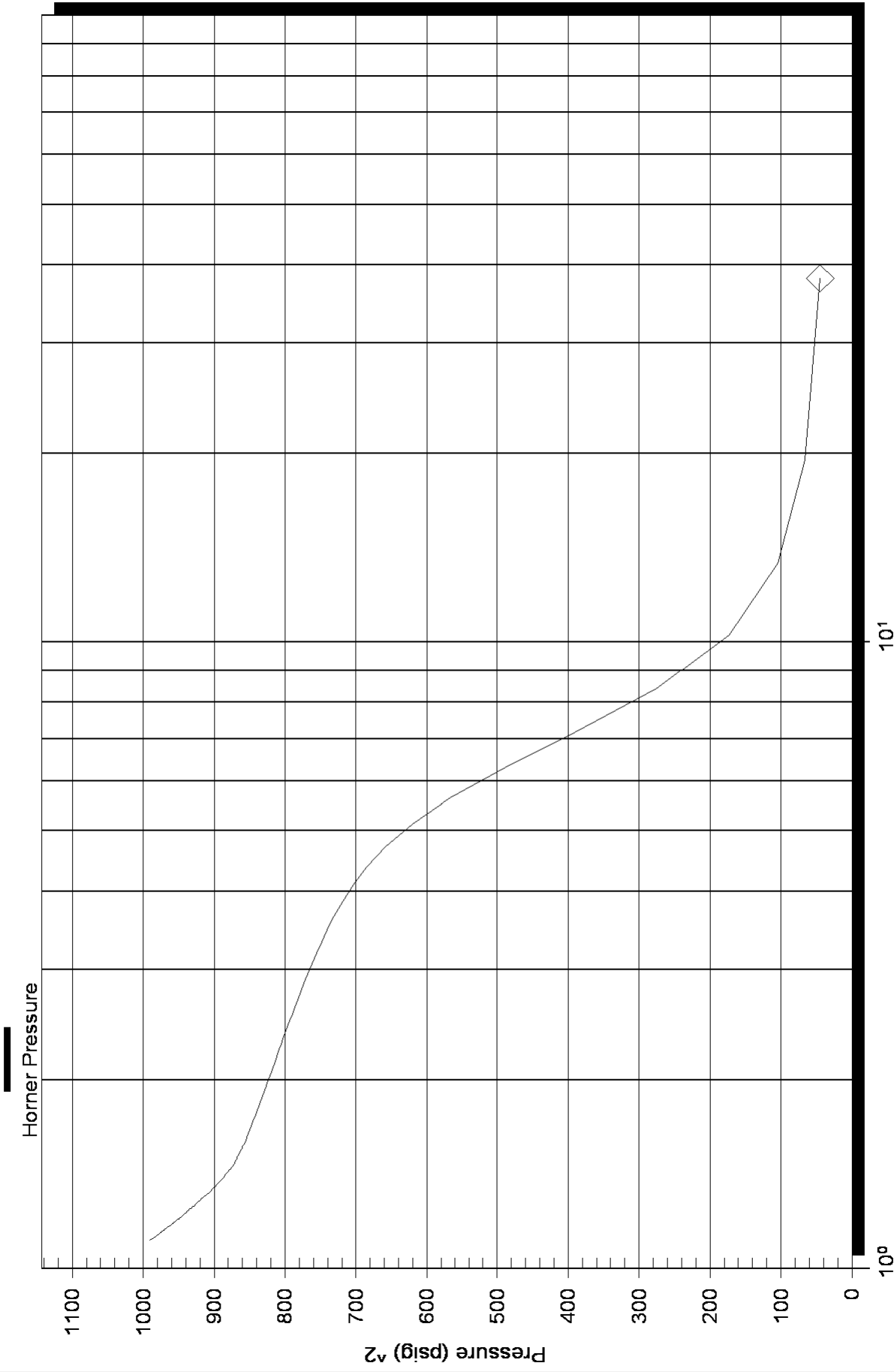
Samuel Gary Jr. & Assoc. inc

4-16s-16w Rush

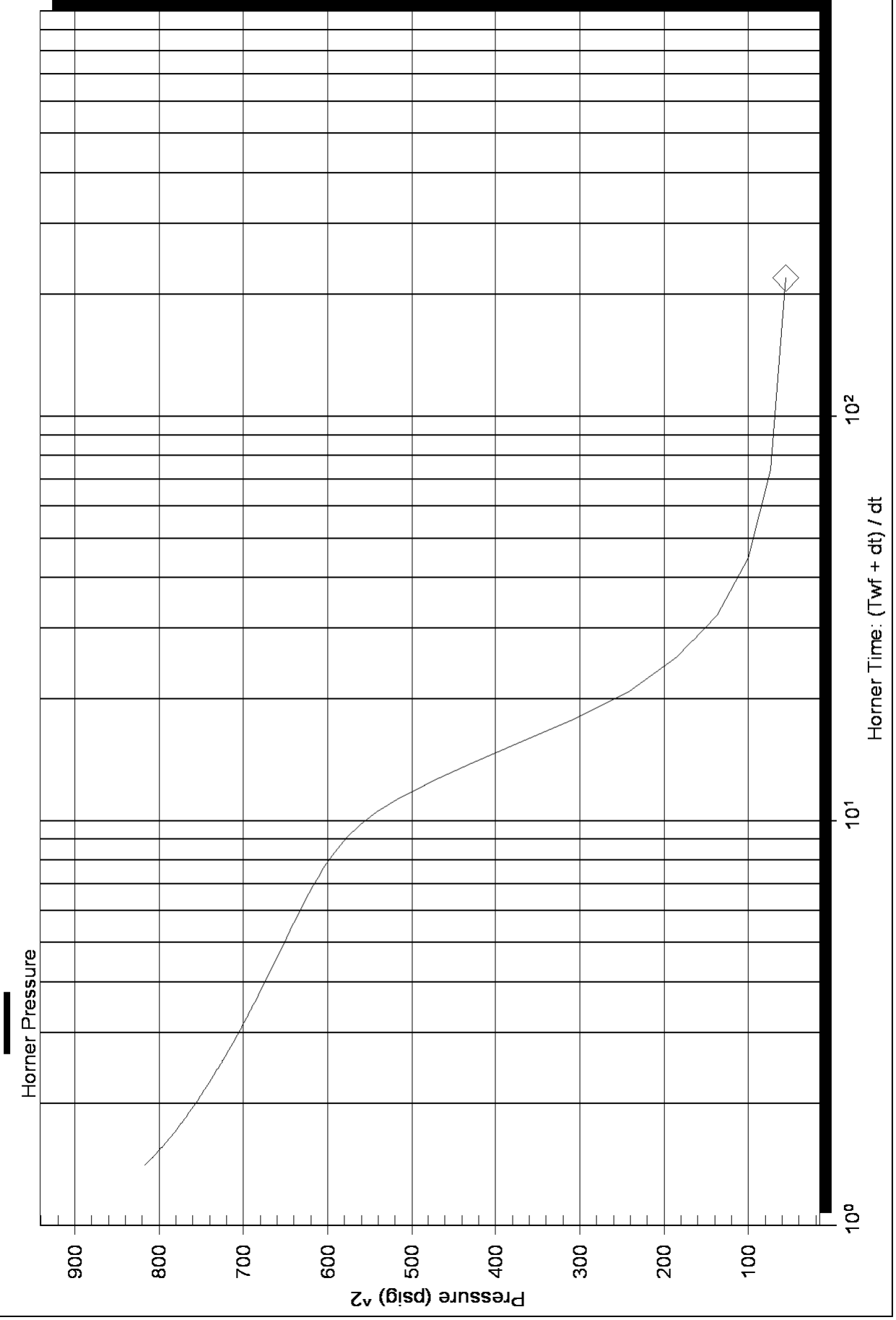
DST Test Number: 3



### Homer Plot

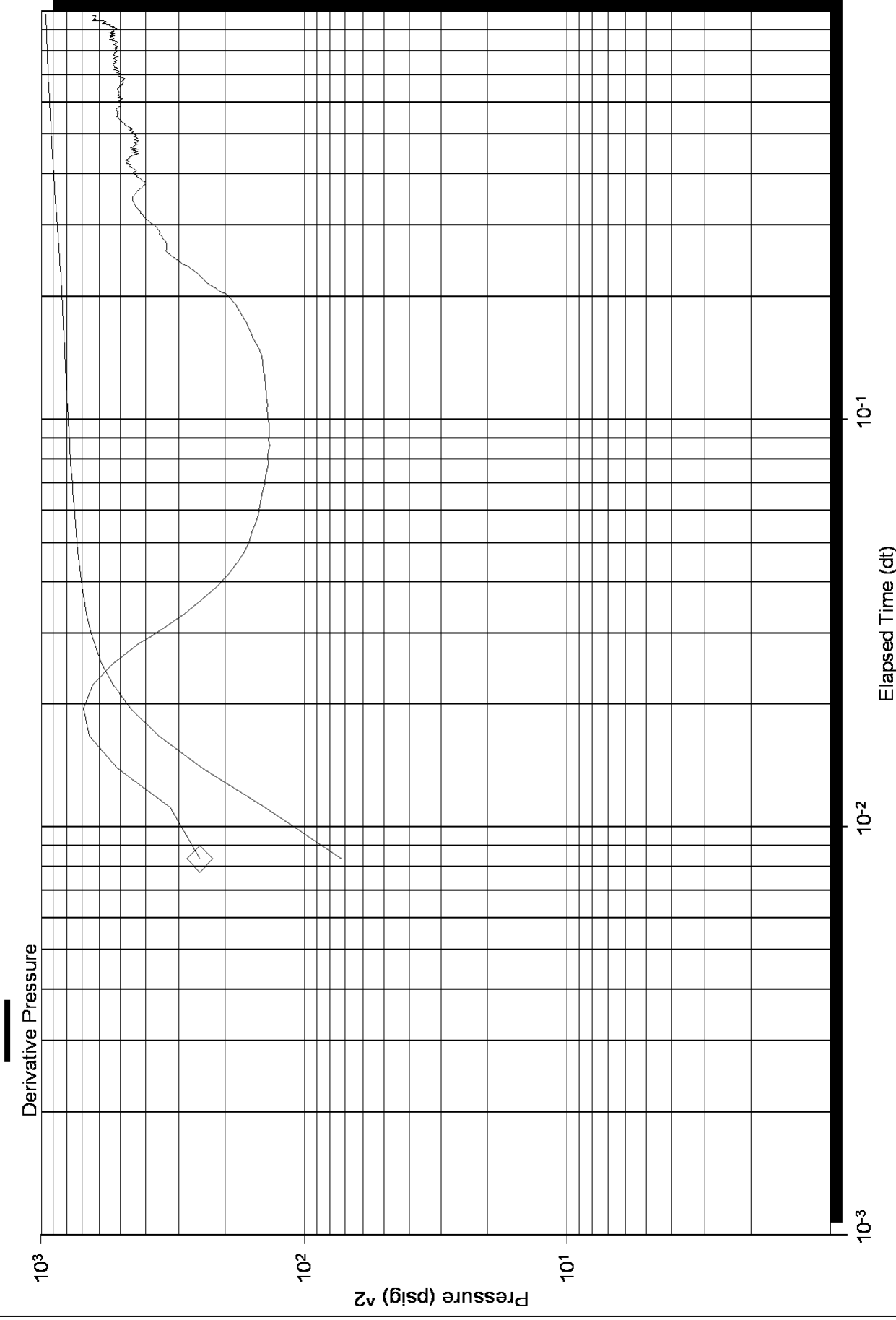


### Homer Plot

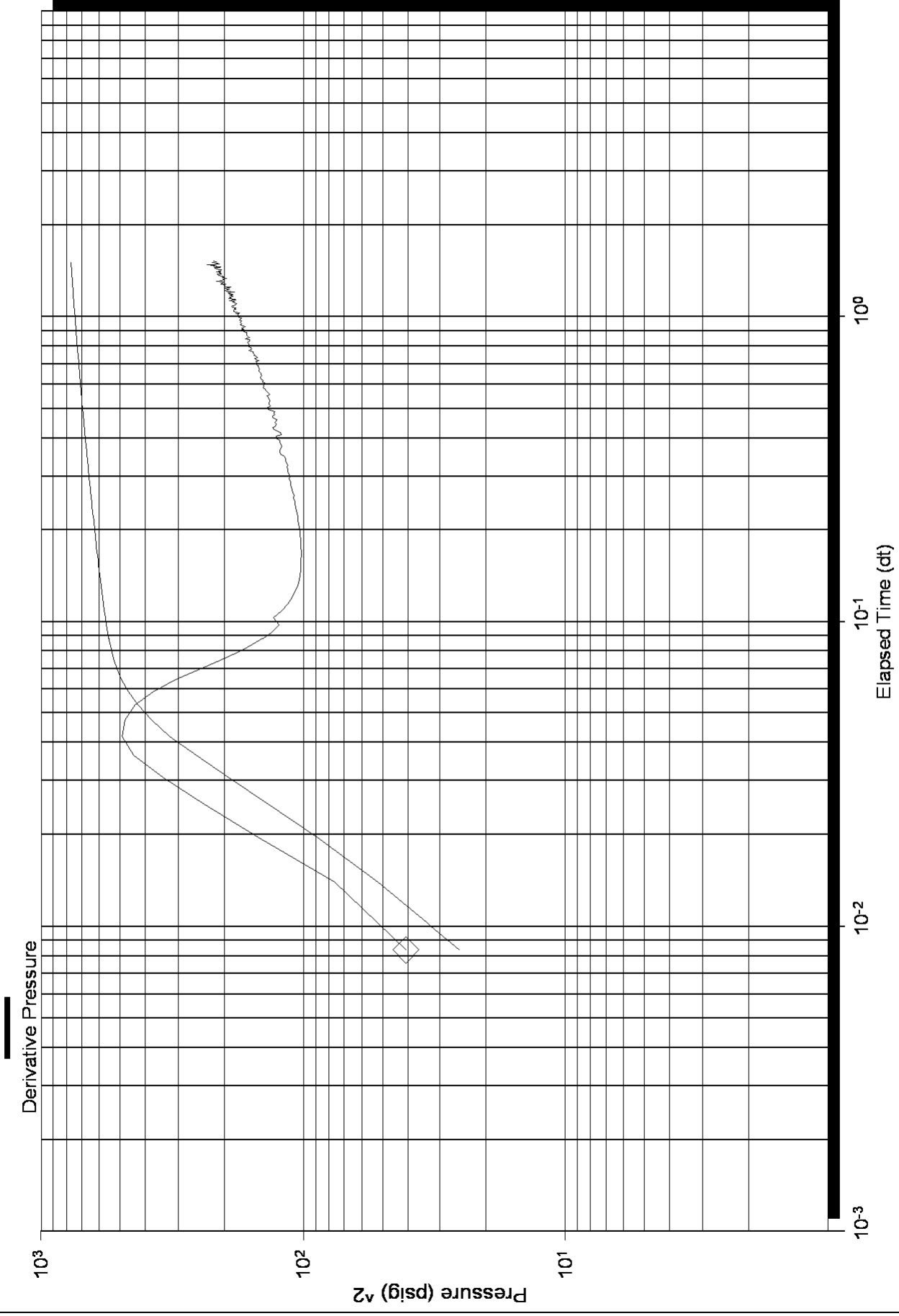




# Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Derivative





## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Assoc. Inc**

1515 Wynkoop St.  
Suite 700  
Denver, CO 80202

ATTN: Clayton Camozzi

**4-16s-16w Rush,KS**

**Bogleigh Wallah West TR 1-4**

Start Date: 2011.07.22 @ 05:35:05

End Date: 2011.07.22 @ 13:51:09

Job Ticket #: 43517                      DST #: 4

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. & Assoc. Inc

**Bogleigh Wallah West TR 1-4**

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

**4-16s-16w Rush,KS**

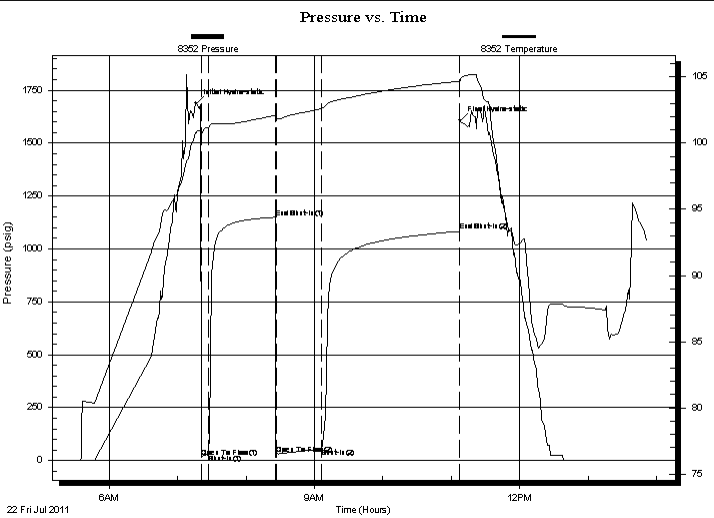
Job Ticket: 43517      **DST#: 4**  
Test Start: 2011.07.22 @ 05:35:05

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:21:00  
 Time Test Ended: 13:51:09  
 Interval: **3472.00 ft (KB) To 3486.00 ft (KB) (TVD)**  
 Total Depth: 3486.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Andy Carreira  
 Unit No: 39  
 Reference Elevations: 1915.00 ft (KB)  
 1907.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8352      Outside**  
 Press @ Run Depth: 56.13 psig @ 3473.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2011.07.22      End Date: 2011.07.22      Last Calib.: 2011.07.22  
 Start Time: 05:35:05      End Time: 13:51:10      Time On Btm: 2011.07.22 @ 07:16:20  
 Time Off Btm: 2011.07.22 @ 11:07:39

**TEST COMMENT:** IF:(5min) 2 inch blow  
 IS:(60min) No Return  
 FF:(40min) BOB, 24 min.  
 FS:(120min) No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.33	100.80	Initial Hydro-static
5	15.75	99.93	Open To Flow (1)
11	32.16	101.20	Shut-In(1)
70	1149.59	102.12	End Shut-In(1)
71	31.90	101.83	Open To Flow (2)
111	56.13	102.63	Shut-In(2)
231	1083.08	104.68	End Shut-In(2)
232	1608.50	104.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO g=10% m=20% o=70%	0.57
40.00	CGO g=10% o=90%	0.56

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc

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

**Bogleigh Wallah West TR 1-4**

**4-16s-16w Rush,KS**

Job Ticket: 43517      **DST#: 4**

Test Start: 2011.07.22 @ 05:35:05

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock:    ft (KB)

Time Tool Opened: 07:21:00

Time Test Ended: 13:51:09

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

**Interval: 3472.00 ft (KB) To 3486.00 ft (KB) (TVD)**

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3486.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8017      Inside**

Press @RunDepth:    psig @      3473.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.22      End Date: 2011.07.22

Last Calib.: 2011.07.22

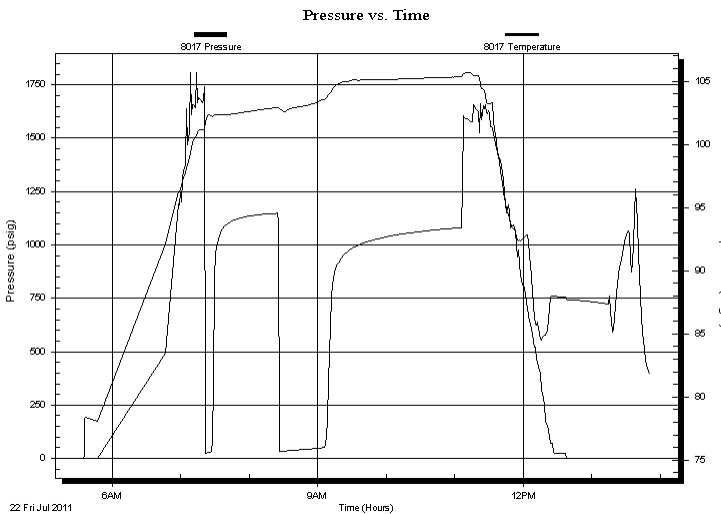
Start Time: 05:35:05      End Time: 13:50:59

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF:(5min) 2 inch blow  
IS:(60min) No Return  
FF:(40min) BOB, 24 min.  
FS:(120min) No Return

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO g=10% m=20% o=70%	0.57
40.00	CGO g=10% o=90%	0.56

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc

**Bogleigh Wallah West TR 1-4**

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

**4-16s-16w Rush,KS**

Job Ticket: 43517 **DST#: 4**

Test Start: 2011.07.22 @ 05:35:05

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:21:00

Time Test Ended: 13:51:09

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: **3472.00 ft (KB) To 3486.00 ft (KB) (TVD)**

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3486.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8647 Fluid**

Press @ RunDepth: psig @ 3438.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.22 End Date: 2011.07.22

Last Calib.: 2011.07.22

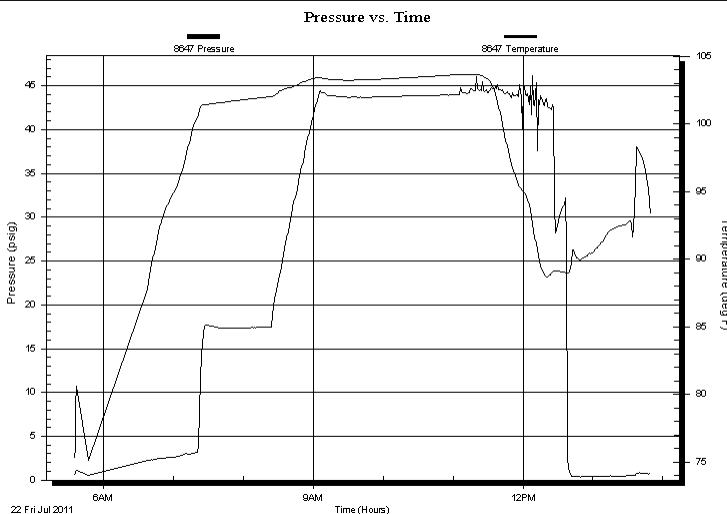
Start Time: 05:35:05 End Time: 13:49:20

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF:(5min) 2 inch blow  
IS:(60min) No Return  
FF:(40min) BOB, 24 min.  
FS:(120min) No Return

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO g=10% m=20% o=70%	0.57
40.00	CGO g=10% o=90%	0.56

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. & Assoc. Inc

**Bogleigh Wallah West TR 1-4**

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

**4-16s-16w Rush,KS**

Job Ticket: 43517

**DST#: 4**

Test Start: 2011.07.22 @ 05:35:05

## Tool Information

Drill Pipe:	Length: 3437.00 ft	Diameter: 3.80 inches	Volume: 48.21 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 30.15 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 48.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.15 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3472.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	49.00 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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Change Over Sub	1.00			3438.00	
Recorder	0.00	8647	Fluid	3438.00	
Blank Spacing	5.00			3443.00	
Shut In Tool	5.00			3448.00	
Sampler	2.00			3450.00	
Hydraulic tool	5.00			3455.00	
Jars	5.00			3460.00	
Safety Joint	3.00			3463.00	
Packer	5.00			3468.00	35.00 Bottom Of Top Packer
Packer	4.00			3472.00	
Stubb	1.00			3473.00	
Recorder	0.00	8017	Inside	3473.00	
Recorder	0.00	8352	Outside	3473.00	
Perforations	10.00			3483.00	
Bullnose	3.00			3486.00	14.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Samuel Gary Jr. & Assoc. Inc

**Bogleigh Wallah West TR 1-4**

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

**4-16s-16w Rush,KS**

Job Ticket: 43517      **DST#: 4**  
Test Start: 2011.07.22 @ 05:35:05

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 9000.00 ppm		
Filter Cake: inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	GMCO g=10% m=20% o=70%	0.567
40.00	CGO g=10% o=90%	0.561

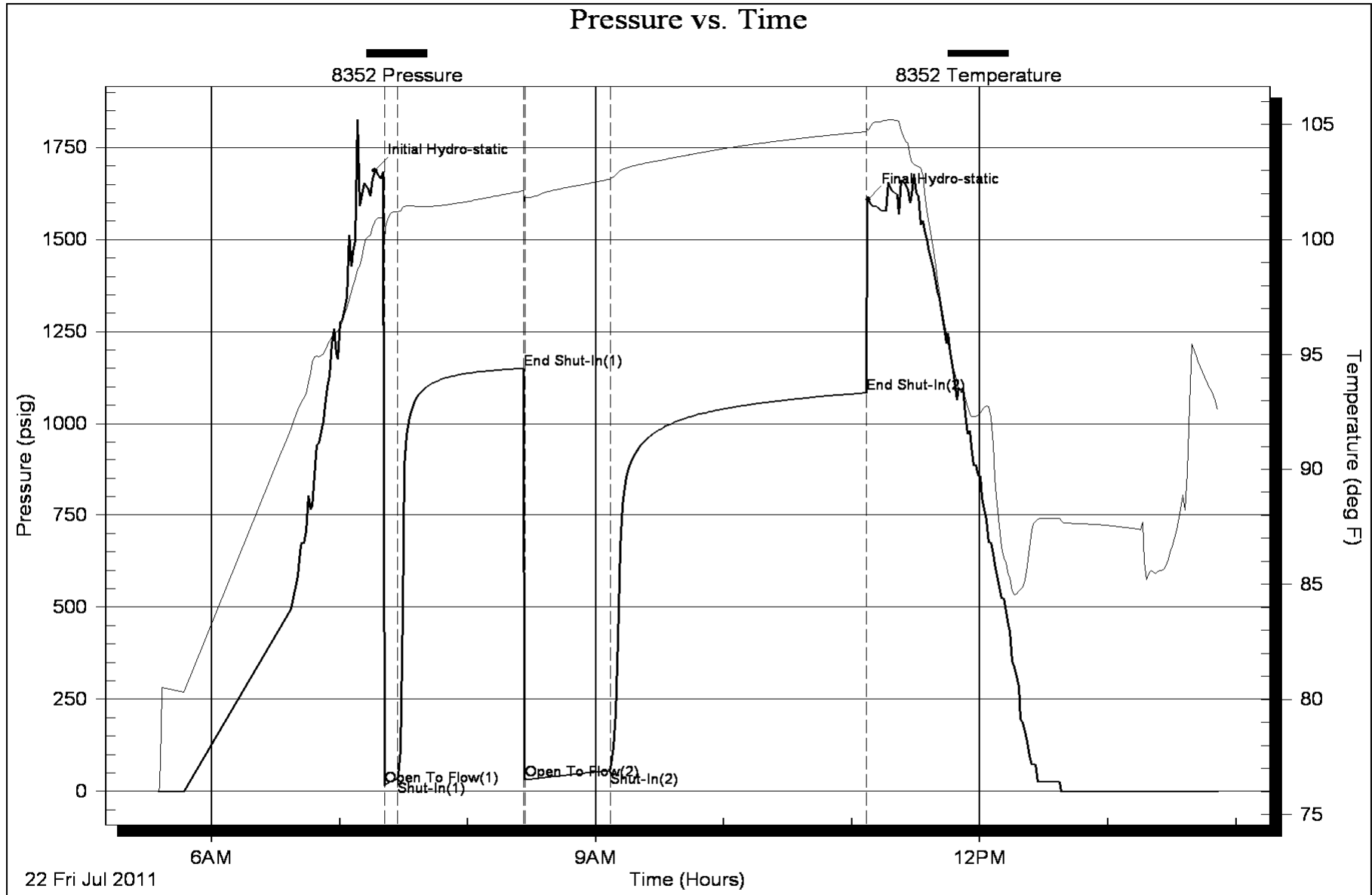
Total Length: 100.00 ft      Total Volume: 1.128 bbl

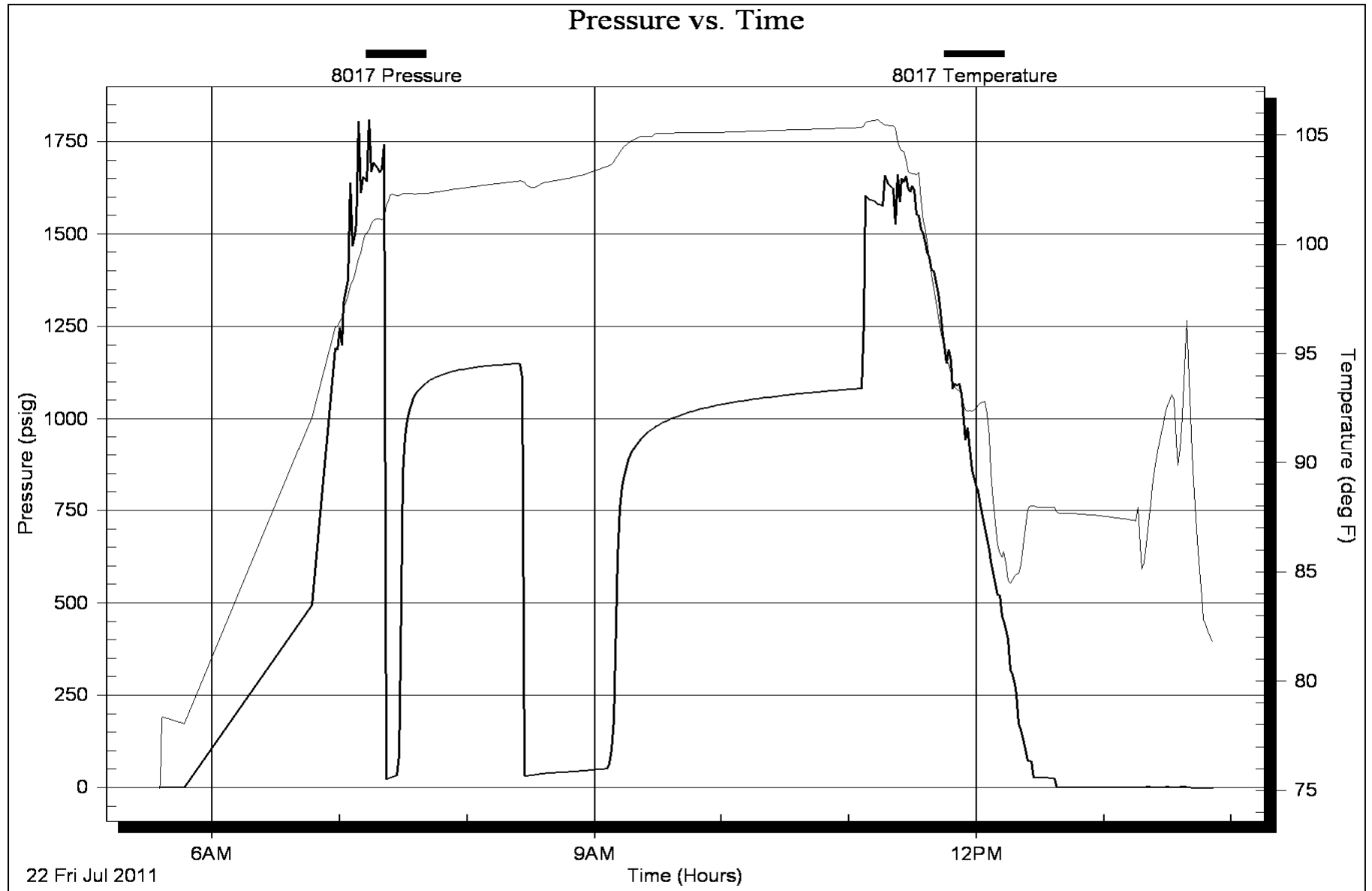
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

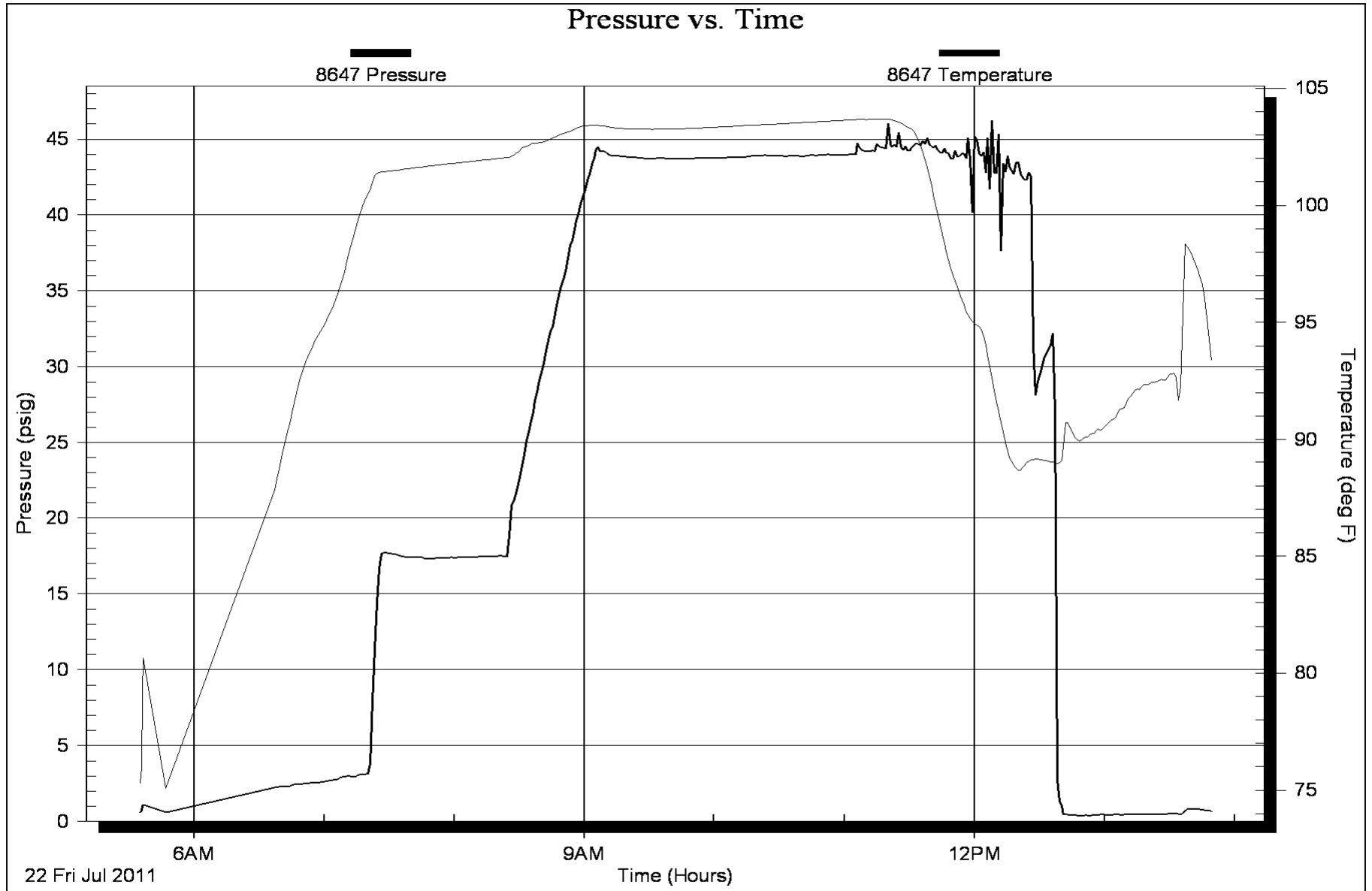
Laboratory Name:      Laboratory Location:

Recovery Comments: Sampler Data- gss=1.2cf oil=1500ml mud=100ml pressure=245lbs

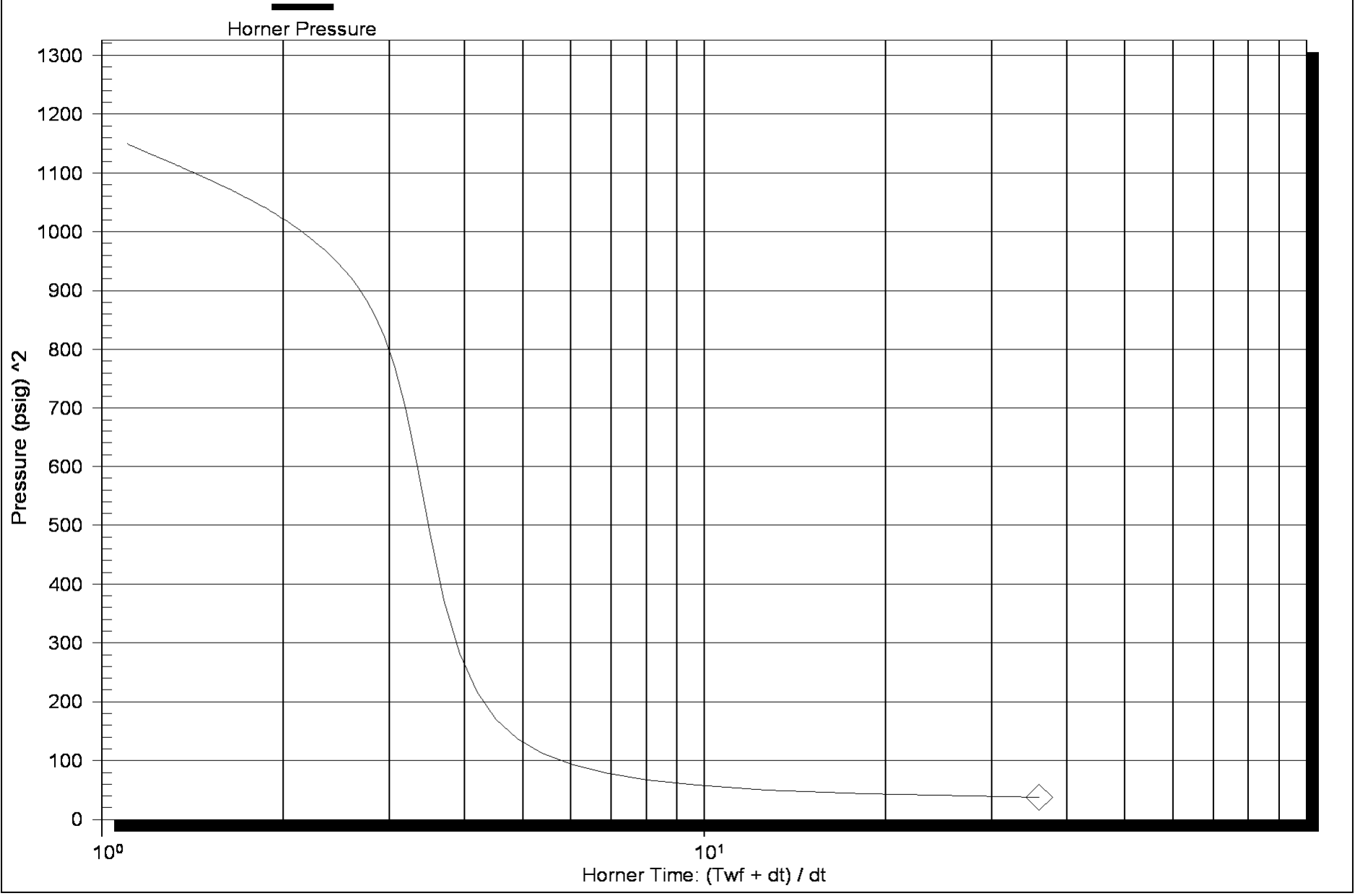




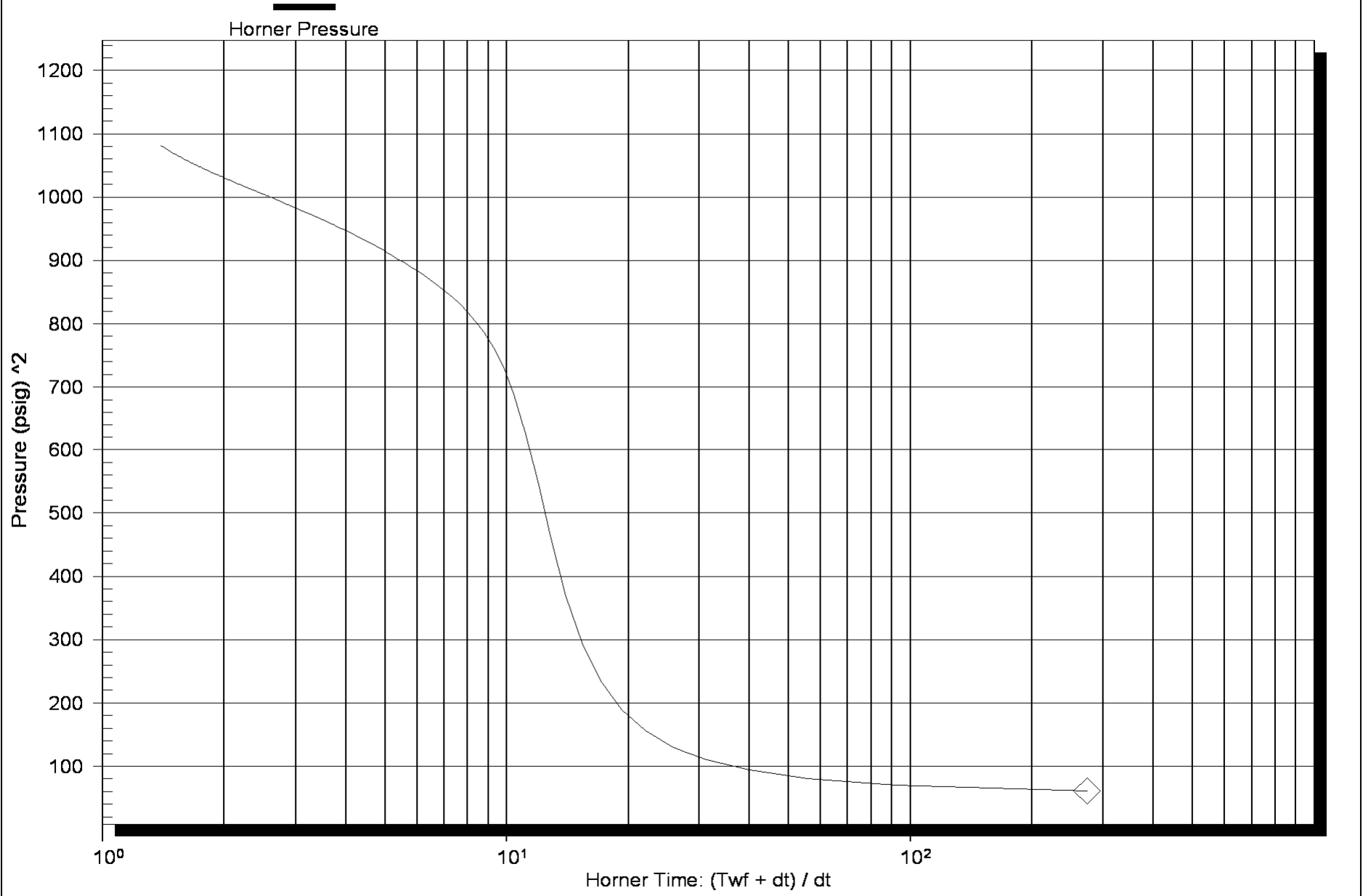




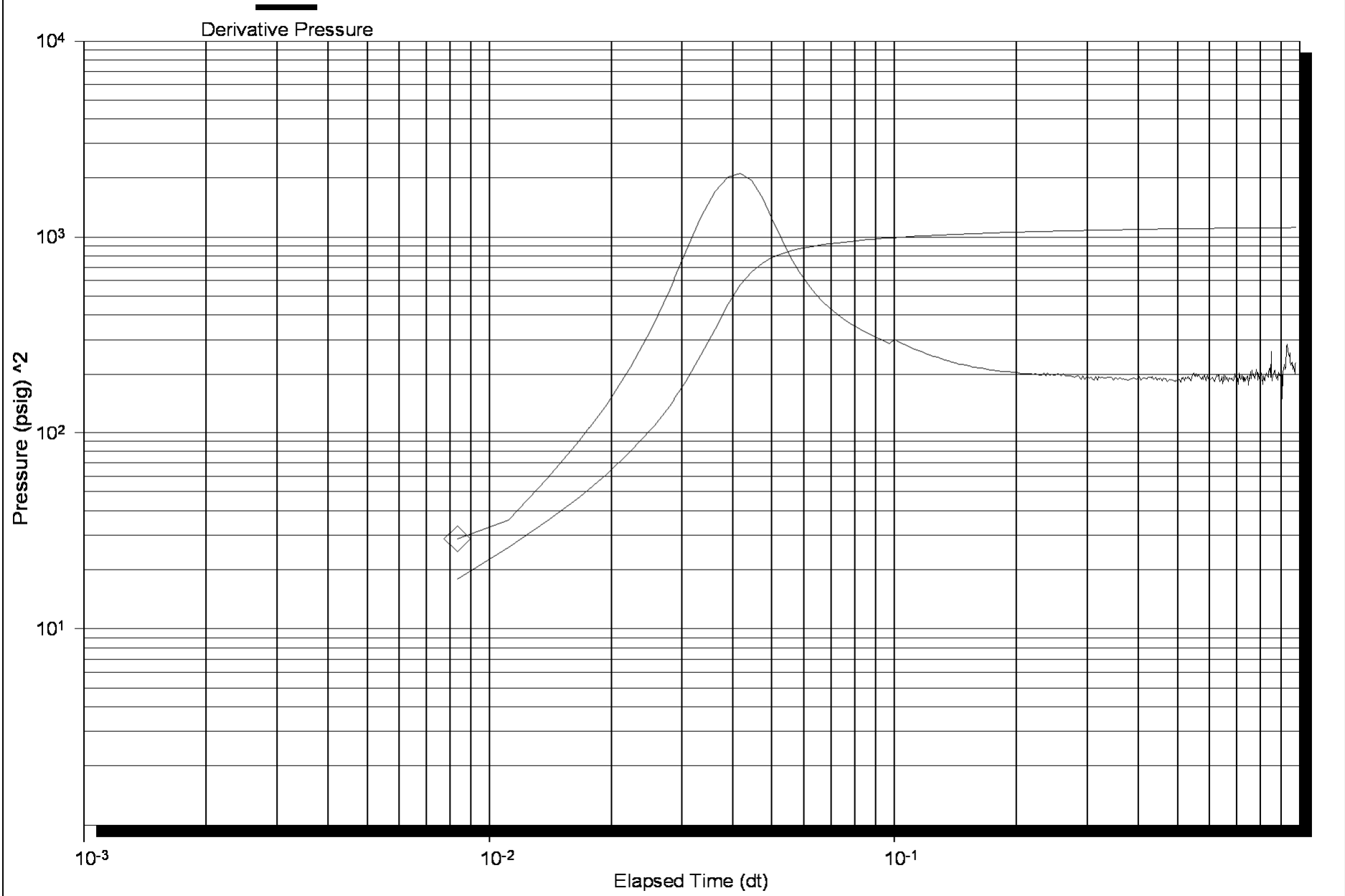
# Horner Plot



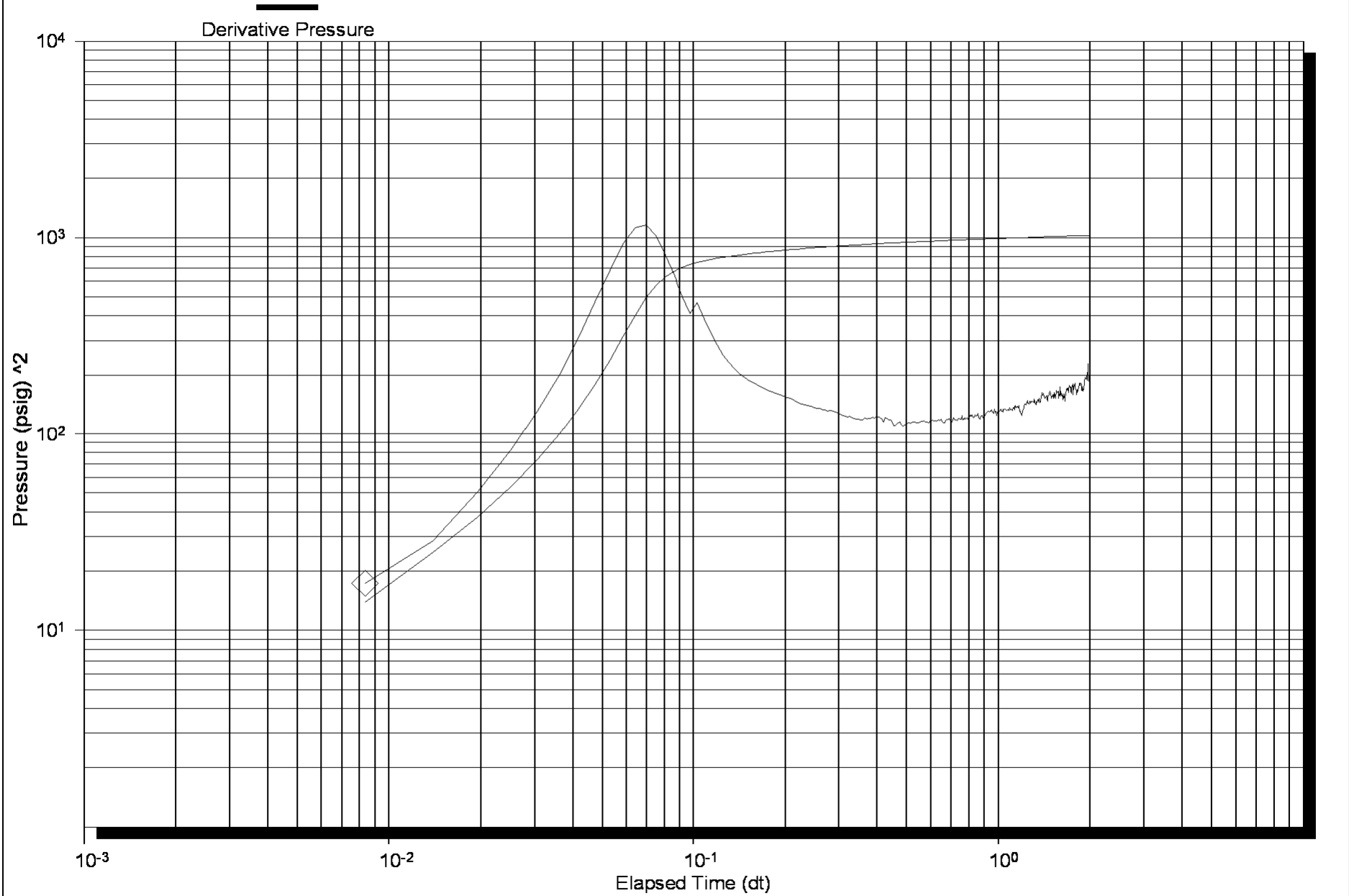
### Horner Plot



# Log-Log and Pseudo-Derivative



### Log-Log and Pseudo-Derivative





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

Well Name: Bogleigh Wallah West Trust # 1-4  
 Location: Sec 4 16s 16w, Rush County, Kansas  
 License Number: 15-165-21928  
 Spud Date: 7/15/2011  
 Surface Coordinates: 1200' Fnl & 700' Fel  
 Region: Wildcat  
 Drilling Completed: 7/22/2011

Bottom Hole Coordinates:  
 Ground Elevation (ft): 1907' K.B. Elevation (ft): 1915'  
 Logged Interval (ft): 1800' To: 3600' Total Depth (ft): 3600'  
 Formation: Lansing, Kansas City  
 Type of Drilling Fluid:

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

**OPERATOR**

Company: Sam Gary Jr. & Associates, Inc.  
 Address: 1515 Wynkoop, # 700  
 Denver, Co. 80202  
 Geo: Clayton Camozzi

**GEOLOGIST**

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

**DSTs**

DST #1, 3200'-3223', 5,60,40,120  
 IFP-4" BLOW, ISI-NO RETURN, FF-BOB IN 6MIN, FSI- NO RETURN, IH-1515, FH-1478, FIF-21, FFF-42, SIF-45,  
 SFF-113, ISI-872, FSI-868, TOTAL REC- 15', 50% OIL, 20% WATER, 30% MUD, GRAVITY 34

DST #2, 3248'-3279', 5,60,30,90  
 IFP-3" BLOW, ISI-NO RETURN, FF-BOB IN 4MIN, FSI- RETURN BLOW, BUILT TO 2", IH-1555, FH-1526, FIF-23,  
 FFF-36, SIF-41, SFF-62, ISI-866, FSI-819, TOTAL REC- 120', 45% OIL, 20% WATER, 15% MUD, GRAVITY 37

DST #3, 3345'-3388', 5,60,30,90  
 IFP-1" BLOW, ISI-NO RETURN, FF-1" BLOW, FSI- NO RETURN, IH-1622, FH-1610, FIF-19, FFF-31, SIF-35,  
 SFF-48, ISI-991, FSI-817, TOTAL REC- 50', 100% MUD

DST #4, 3472'-3486', 5,60,40,120  
 IFP-2" BLOW, ISI-NO RETURN, FF-BOB IN 24MIN, FSI- NO RETURN, IH-1687, FH-1608, FIF-15, FFF-32, SIF-31,  
 SFF-56, ISI-1149, FSI-1083, TOTAL REC- 100', 90% OIL, 10% GAS, GRAVITY 40

**ROCK TYPES**

	Anhy		Gyp		Shgy		Sandylms
	Bent		Igne		Sltst		Shale
	Brec		Lmst		Ss		Sltstn
	Cht		Meta		Till		Shlyslts
	Clyst		Mrlst		Carb sh		Sltyslts
	Coal		Salt		Dol		Slysh
	Congl		Shale		Dtd		Lms
	Dol		Shcol		Gry sh		



### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brefracg
- 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
- Sandyms
- 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

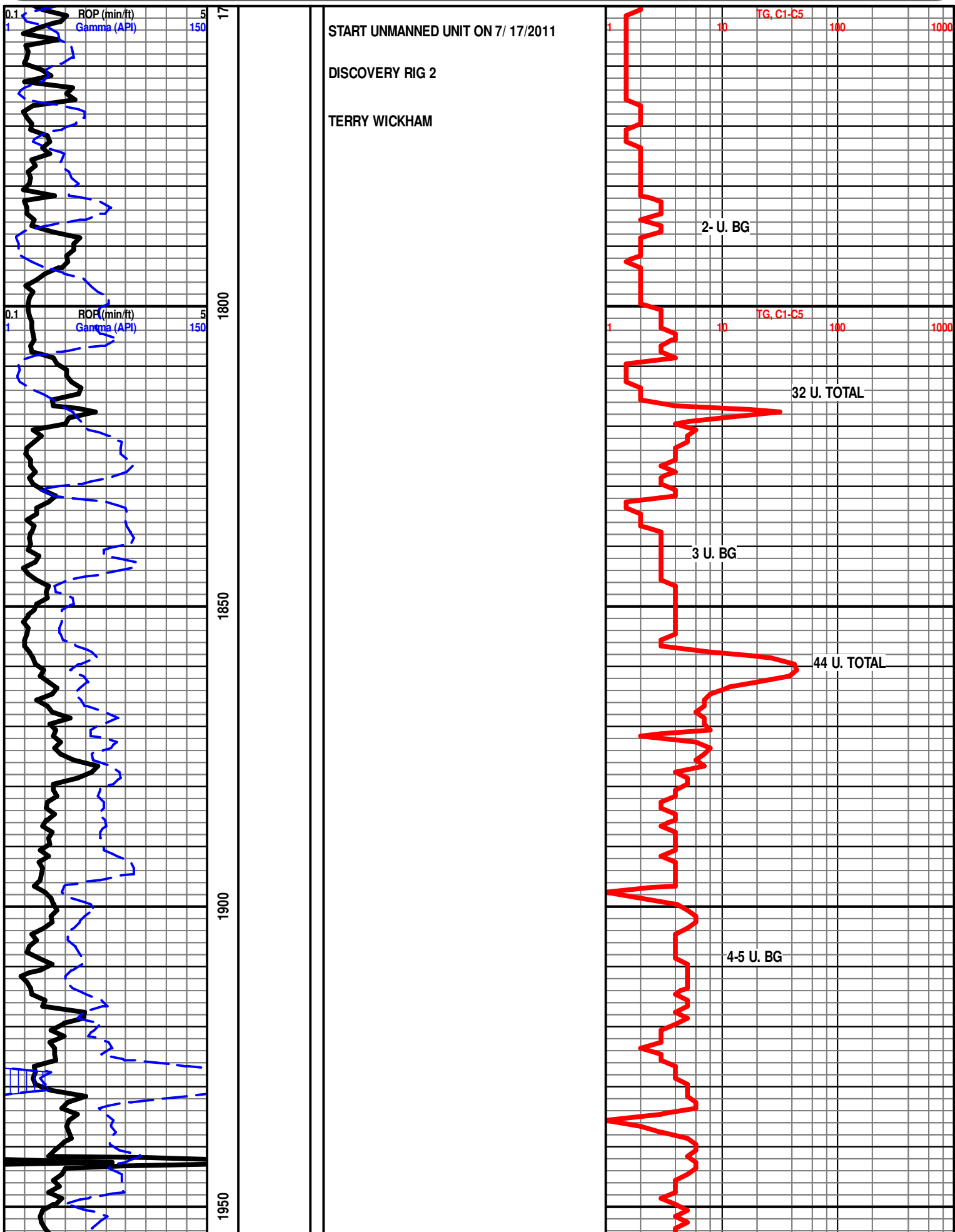
- Even
- Spotted
- Ques
- Dead
- Gas show

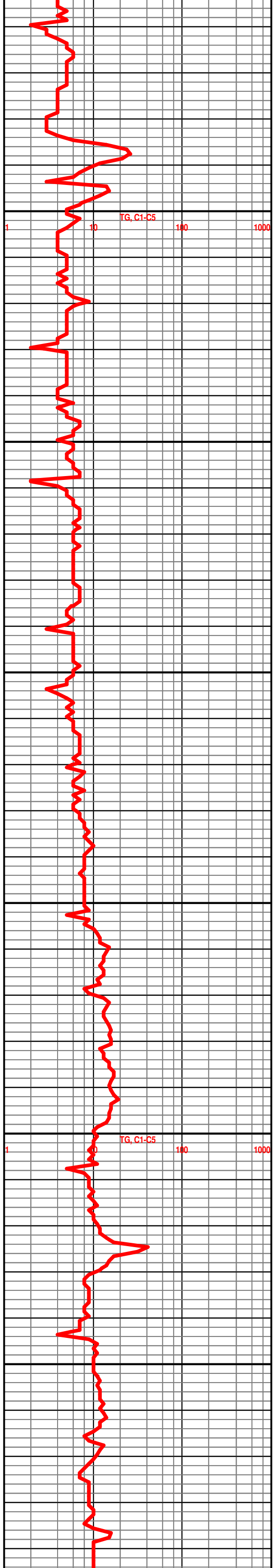
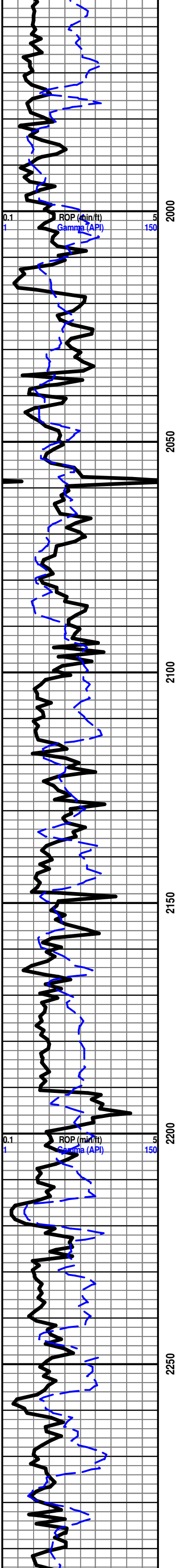
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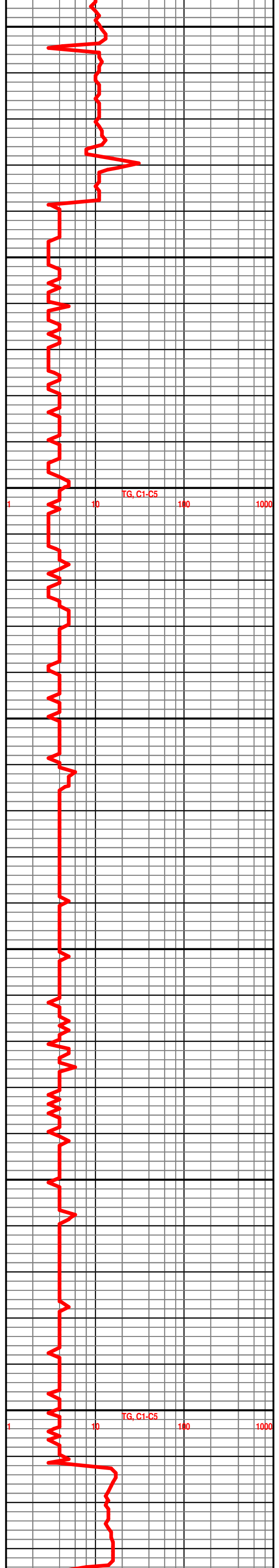
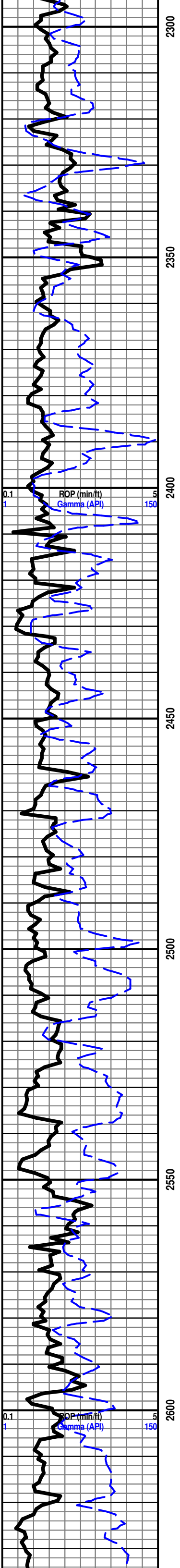
- Core
- Dst
- Dst

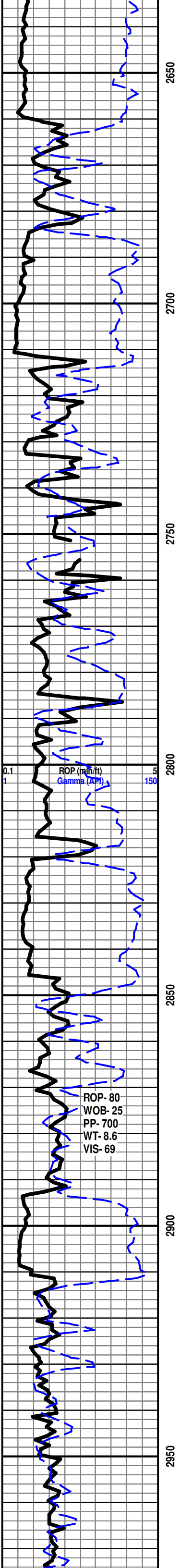
#### EVENTS

- Rft
- Sidewall









**BASE ROOT SHALE @ 2660' -745'**

**STARTED MANNED UNIT ON  
7/18/2011 @ 7:30 P.M.**

**HOWARD @ 2846' -931'**

LS- LT GRY CRM LT 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

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

**SEVERY @ 2893' -978'**

SH- GRY TO DK GRY, FRM, BLKY

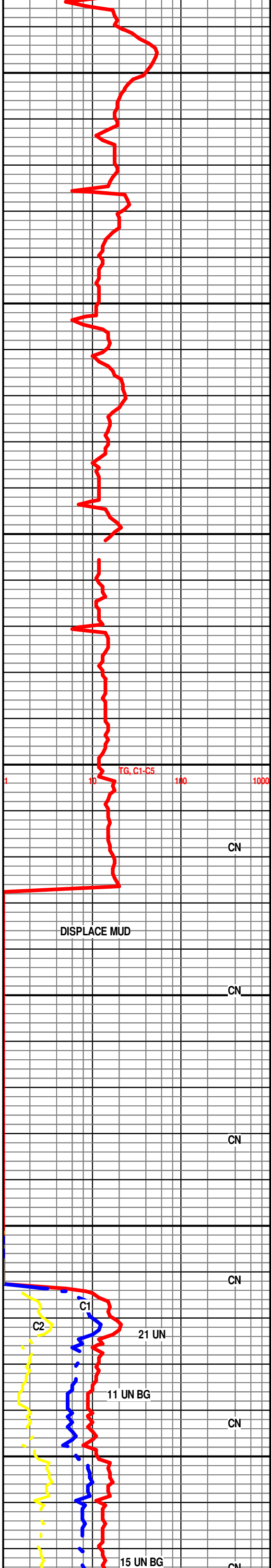
**TOPEKA @ 2911' -996'**

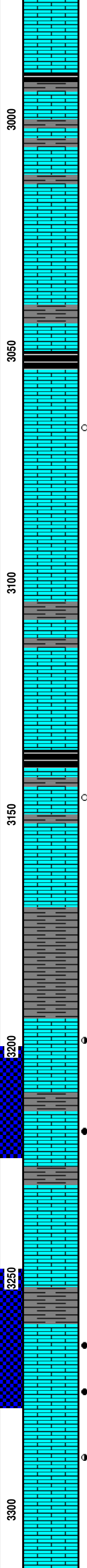
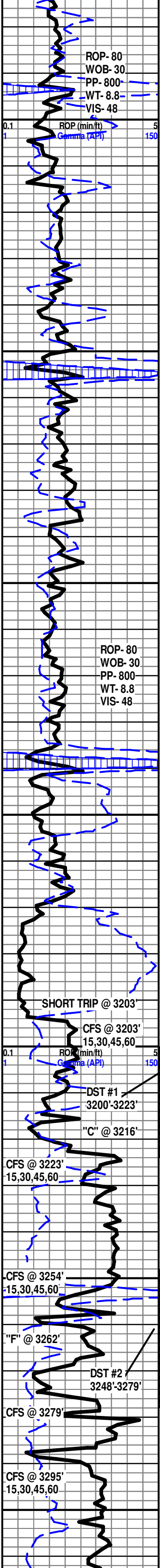
LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN XLN, REXLN MTRX, SLI TR CHLK, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, SLI TR IMBD SH SCAT THRU, DLL YEL FLO, TR PR PP POR, NO VIS CUT, NO VIS SHOW

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

SH- GRY TO DK GRY, FRM, SMTH BLKY

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





SH- GRY TO DK GRY BLK, FRM TO TR SFT, SMTH BLKY, SLI CARB

**LE COMPTON 3014' -1099'**

LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, FN TO REXLN MTRX THRU, IMBD CALC XLS THRU, IMBD FOSS FRAGS, SLI TR IMBD GRY SH IP, DLL YEL FLO IN 30%, V/SLI TR INTR-XLN POR, NO VIS SHOW

SH- GRY TO DK GRY, FRM, BLKY

SH- SOFT BLACK CARB SHALE

LS- CRM LT TN TO TN LT GRY, STAIN IN 25%, HD DNS TO BRITT, FN XLN TO REXLN MTRX SCAT THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS THRU, SLI TR IMBD OOL IP, TR DISS PYR SCAT IP, DLL TO TR BRIT YEL FLO IN 15% TR PR INTR-XLN POR, PR FLUSH CUT TO NO STREAM CUT THRU

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

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

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

**HEEBNER @ 3136' -1221'**

LS- CRM LT TN TO TN, HD DNS TO BRITT, FN XLN TO REXLN MTRX THRU, SUCRO TXT IP, IMBD CALC XLS IP, FOSS FRAGS SCAT IP, DLL TO TR BRIT YEL FLO IN 10%, TR FR INTR-XLN POR, PR FLUSH CUT THRU TO NO STREAM CUT

**DOUGLAS @ 3170' -1255'**

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

**LANSING @ 3194' -1279'**

LS- CRM LT TN TO TN, STAIN IN 30%, HD DNS TO BRITT, FN XLN TO REXLN MTRX THRU, SUCRO TXT THRU, IMBD CALC XLS SCAT THRU, TR IMBD FOSS FRAGS, DLL YEL TO TR BRIT FLO IN 30%, FR TO GD INTR-XLN POR, FR FLUSH CUT THRU TO PR SLOW MLKY BLUE STREAM CUT IN 5%, NO ODOR

LS- CRM OFF WHT LT TN TO TN, STAIN IN 60%, HD DNS TO BRITT, V/FN TO FN XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS IP, V/SLI TR IMBD OOL IP, DLL GLD TO BRIT FLO IN 45%, GD VUG TO GD INTR-XLN POR, EXCL INST FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 45%, FR TO GD OIL ODOR, LT BRN STAIN ON DISH

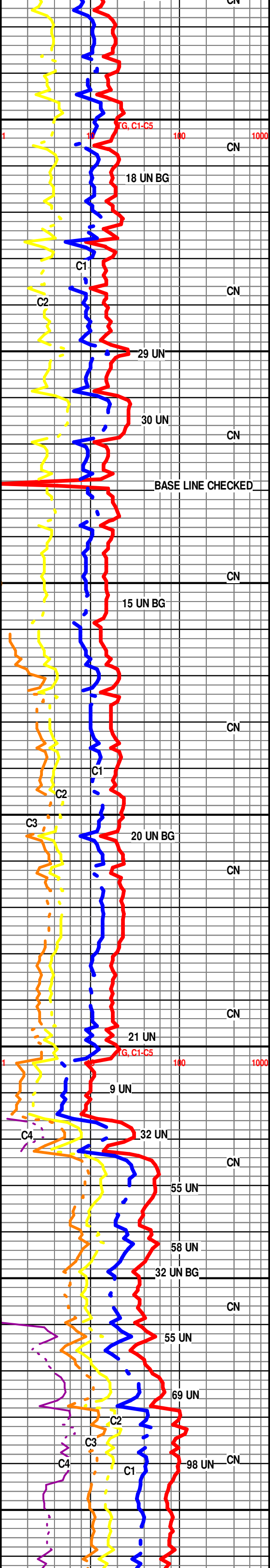
LS- CRM OFF WHT LT TN, STAIN SCAT IP 20%, HD DNS TO BRITT, FN XLN TO REXLN MTRX, IMBD CALC XLS SCAT IP, TR FRM TO SFT WHT CHLK, DLL TO BRIT YEL FLO IN 35%, TR V/PR INTR-XLN POR, NO VIS CUT, NO VIS SHOW

LS- CRM TN TO DK TN, STAIN THRU, HD DNS TO V/BRITT, FN XLN TO REXLN MTRX THRU, IMBD OOL SCAT THRU, TR IMBD CALC XLS, DLL TO BRIT YEL FLO IN 50%, GD OOLCST POR, EXCL INST FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 45%, GD OIL ODOR, DK TN STAIN ON DISH

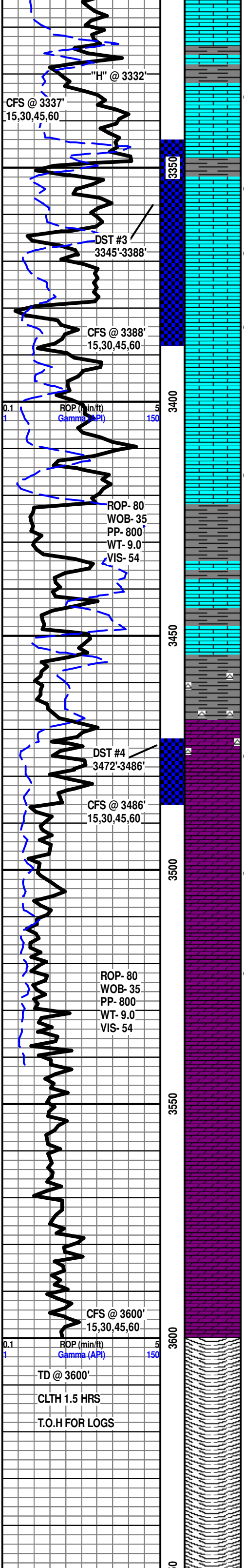
LS- CRM LT TN TO TN, STAIN IN 60%, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT IP, SLI TR IMBD FOSS FRAGS, SLI TR IMBD OOL IP, LIVE OIL IN 15%, BRIT YEL FLO IN 60%, FR TO GD VUG TO FR INTR-XLN POR, EXCL INST FLUSH CUT THRU TO EXCL MLKY BLUE STREAM CUT THRU, STRONG OIL ODOR, TN STAIN ON DISH

LS- CRM OFF WHT LT TN TO TN, STAIN IN 20%, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT IP, SLI TR SFT WHT CHLK, BRIT YEL FLO IN 25%, FR VUG POR, FR FLUSH CUT IN 50%, GD SLOW MLKY BLUE STREAM CUT IN 20%, FR OIL ODOR

LS- CRM OFF WHT TO WHT LT TN, HD DNS TO BRITT, MD XLN TO REXLN MTRX, IMBD CALC XLS SCAT IP, FRM TO SFT WHT CHLK SCAT THRU, DLL TO BRIT YEL FLO IN 5%, SLI TR V/PR INTR-XLN POR, NO VIS CUT NO VIS SHOW







LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN XLN TO REXLN MTRX IP, SUCRO TXT SCAT IP, IMBD CALC XLS SCAT IP, SLI TR IMBD GRN CLAY, TR FRM WHT CHLK SCAT IP, SLI TR IMBD OOL, DLL GLD FLO TO TR BRIT IN 15%, PR INTR-XLN TO V/SLI TR VUG POR, PR FLUSH CUT TO NO STREAM CUT, PR OIL ODOR

LS- CRM OFF WHT, LT TN TO TN, STAIN IN 30%, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD CALC XLS IP, TR IMBD OOL SCAT IP, GLD YEL FLO IN 30%, FR INTR-XLN TO FR PP POR, GD INST FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 40%, GD OIL ODOR, LT BRN STAIN ON DISH

LS- CRM, LT TN TO TN, STAIN IN 50%, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT SCAT THRU, IMBD CALC XLS, GLD YEL FLO IN 50%, FR INTR-XLN TO POSS FRAC POR, GD FLUSH CUT THRU TO GD SLOW MLKY BLUE STREAM CUT IN 20%, FR OIL ODOR

LS- CRM OFF WHT LT TN TO TN, STAIN THRU, HD TT TO TR FRI, FN TO MD XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, SLI TR FRM WHT CHLK SCAT IP, GLD TO BRIT YEL FLO IN 60%, FR VUG TO GD OOLCST POR POSS FRAC POR, GD INST FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT THRU, GD OIL ODOR, DK TN STAIN ON DISH

LS- CRM OFF WHT LT TN TO TN, STAIN SCAT THRU, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, SUCRO TXT SCAT IP, IMBD CALC XLS IP, SLI TR FRM WHT CHLK SCAT IP, GLD TO BRIT YEL FLO IN 40%, FR INTR-XLN POR TO POSS FRAC POR, FR FLUSH CUT TO FR SLOW MLKY BLUE STREAM CUT

**BASE KANSAS CITY @ 3422' -1507'**

SH- GRY TO DK GRY DK BRN, SFT TO TR GUMMY IP, BLKY

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

SH- DK GRY TO RDISH BRN, SFT GUMMY, BLKY LIMMY, YELISH WHT CHRT THRU

**ARBUCKLE @ 3470' - 1555'**

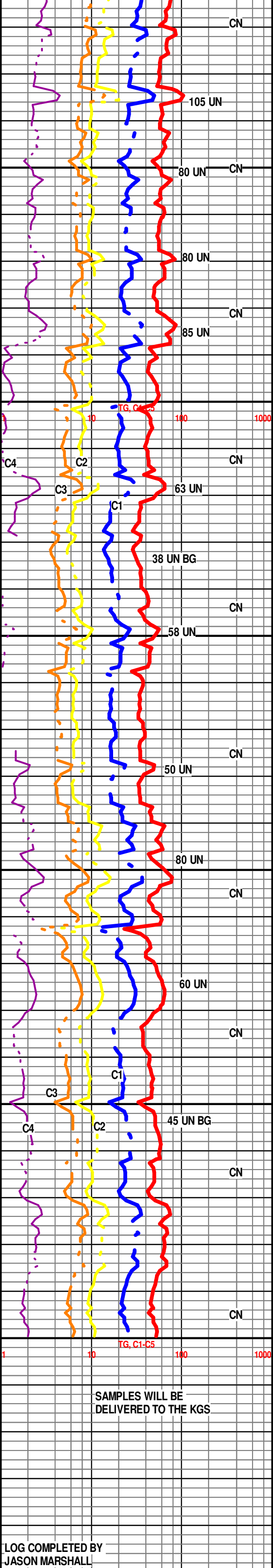
DOL- GRY DK TN TO TN, STAIN THRU, BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, IMBD ABDT SM ANG TO SRND DOL GRNS, V/SLI TR SFT WHT CHLK, TR YELISH CHRT SCAT IP, SLI TR IMBD PYR SCAT IP, DLL GLD FLO THRU TO BRIT GLD FLO IN 35%, FR TO GD INTR-XLN POR TO TR FR VUG POR, EXCL INST FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT THRU, TN STAIN ON DISH, V/STRONG OIL ODOR

DOL- LT GRY LT TN TO TN, STAIN THRU, BRITT, FN TO MD XLN, REXLN MTRX THRU, SUCRO TXT THRU, IMBD ABDT SM ANG TO S'ANG DOL GRNS, TR SFT WHT CHLK SCAT IP, DLL GLD FLO THRU TO BRIT GLD FLO IN 25%, FR TO GD INTR-XLN POR, EXCL INST FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT THRU, LT TN STAIN ON DISH, STRONG OIL ODOR

DOL- WHT TO OFF WHT CRM, STAIN IN 30%, HD DNS TO BRITT, REXLN MTRX THRU, SUCRO TXT THRU, ABDT IMBD SM TO MD ANG TO S'ANG DOL GRNS THRU, TR SFT WHT CHLK SCAT IP, DLL GLD FLO THRU, FR INTR-XLN TO TR FR VUG POR, GD FLUSH CUT THRU TO GD SLOW MLKY BLUE STREAM CUT IN 30%, FR OIL ODOR

DOL- WHT TO OFF WHT, HD DNS TO BRITT, REXLN MTRX THRU, SUCRO TXT THRU, ABDT IMBD SM TO MD ANG TO S'ANG DOL GRNS THRU, WHT CHLK SCAT IP, DLL GLD FLO THRU, FR INTR-XLN TO TR FR VUG POR, NO VIS CUT NO VIS SHOW

DOL- WHT TO OFF WHT, HD DNS TO BRITT, REXLN MTRX THRU, SUCRO TXT THRU, ABDT IMBD SM TO MD ANG TO S'ANG DOL GRNS THRU, DLL GLD FLO THRU, FR INTR-XLN TO TR FR VUG POR, NO VIS CUT NO VIS SHOW



RTD 3600' @ 9:30 PM 07/22/2011

LOGS BY WEATHERFORD

LIBERAL KANSAS

THANK YOU FOR CHOOSING EARTHTECH

SAMPLES WILL BE DELIVERED TO THE KGS