



KANSAS CORPORATION COMMISSION 1046350
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 # 3882
Name: Samuel Gary Jr. & Associates, Inc.
Address 1: 1515 WYNKOOP, STE 700
Address 2: _____
City: DENVER State: CO Zip: 80202 + _____
Contact Person: THOMAS G. FERTAL
Phone: (303) 831-4673
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: TIM HEDRICK
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 #: _____

<u>07/05/2010</u>	<u>07/11/2010</u>	<u>07/11/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25442-00-00

Spot Description: _____
NE NW SW NW Sec. 3 Twp. 16 S. R. 11 East West
1340 Feet from North / South Line of Section
420 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Barton
Lease Name: T H PHILLIPS Well #: 1-3
Field Name: WILDCAT
Producing Formation: N/A
Elevation: Ground: 1858 Kelly Bushing: 1868
Total Depth: 3414 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 437 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: 48000 ppm Fluid volume: 1000 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite: _____

Operator Name: SAMUEL GARY JR. & ASSOCIATES
Lease Name: MATTHAEI TRUST License #: 3882
Quarter SW Sec. 19 Twp. 18 S. R. 9 East West
County: RICE Permit #: 15165218810000

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: 11/10/2010

Confidential Release Date: 11/09/2012

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: NAOMI JAMES Date: 11/10/2010



1046350

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: T H PHILLIPS Well #: 1-3
 Sec. 3 Twp. 16 S. R. 11 East West County: Barton

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>TOPEKA</td> <td>2624</td> <td>-756</td> </tr> <tr> <td>HEEBNER</td> <td>2885</td> <td>-1017</td> </tr> <tr> <td>DOUGLAS</td> <td>2914</td> <td>-1046</td> </tr> <tr> <td>LANSING</td> <td>2996</td> <td>-1128</td> </tr> <tr> <td>ARBUCKLE</td> <td>3320</td> <td>-1452</td> </tr> <tr> <td>TD</td> <td>3414</td> <td></td> </tr> </tbody> </table>	Name	Top	Datum	TOPEKA	2624	-756	HEEBNER	2885	-1017	DOUGLAS	2914	-1046	LANSING	2996	-1128	ARBUCKLE	3320	-1452	TD	3414	
Name	Top	Datum																				
TOPEKA	2624	-756																				
HEEBNER	2885	-1017																				
DOUGLAS	2914	-1046																				
LANSING	2996	-1128																				
ARBUCKLE	3320	-1452																				
TD	3414																					

CASING RECORD <input checked="" 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
SURFACE	12.25	8.625	23	437	CLASS A	200	3% CC, 2% GEL

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	T H PHILLIPS 1-3
Doc ID	1046350

All Electric Logs Run

ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG
MICRO-RESISTIVITY LOG
COMPACT PHOTO DENSITY COMPENSATED NEUTRON LOG
COMPENSATED SONIC W/ INTEGRATED TRANSIT TIMES LOG



*Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner*

November 01, 2010

THOMAS G. FERTAL
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-009-25442-00-00
T H PHILLIPS 1-3
NW/4 Sec.03-16S-11W
Barton 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,
THOMAS G. FERTAL

CONSERVATION DIVISION

Finney State Office Building, 130 S. Market, Room 2078, Wichita, KS 67202-3802
(316) 337-6200 • Fax: (316) 337-6211 • <http://kcc.ks.gov/>



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary & AssociatesInc**

1515 Wynkoop,
Ste 700
Denver Co 80202

ATTN: Tom Fertel

3-16s-11w

TH Phillips #1-3

Start Date: 2010.07.09 @ 04:24:05

End Date: 2010.07.09 @ 09:24:05

Job Ticket #: 37248 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 & Associates Inc

TH Phillips #1-3

1515 Wynkoop,
Ste 700
Denver Co 80202
ATTN: Tom Fertel

3-16s-11w

Job Ticket: 37248 **DST#: 1**
Test Start: 2010.07.09 @ 04:24:05

GENERAL INFORMATION:

Formation: **Lansing**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:31:25
Time Test Ended: 09:24:05

Test Type: Conventional Bottom Hole
Tester: Jeff Brown
Unit No: 31

Interval: **2985.00 ft (KB) To 3030.00 ft (KB) (TVD)**
Total Depth: 3030.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1873.00 ft (KB)
1863.00 ft (CF)
KB to GR/CF: 10.00 ft

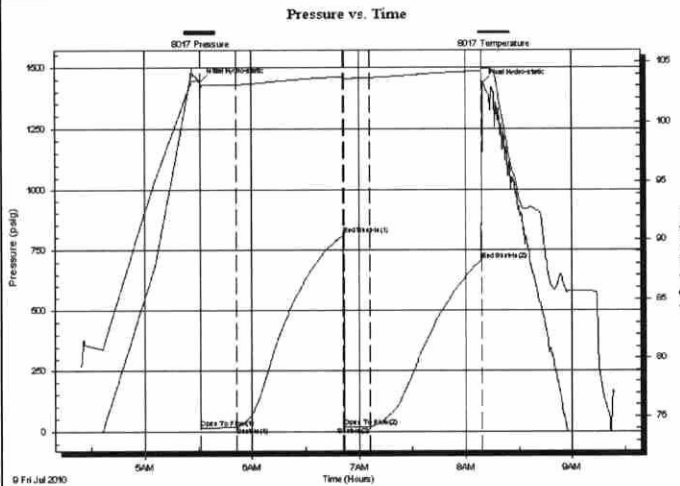
Serial #: 8017

Inside

Press@RunDepth: 17.75 psig @ 2989.00 ft (KB)
Start Date: 2010.07.09 End Date: 2010.07.09
Start Time: 04:24:10 End Time: 09:24:04

Capacity: 8000.00 psig
Last Calib.: 2010.07.09
Time On Btm: 2010.07.09 @ 05:31:15
Time Off Btm: 2010.07.09 @ 08:09:35

TEST COMMENT: IFP-Weak blow built to 1/4 in
IS-Dead no blow back
FFP-Dead no blow
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1442.35	103.46	Initial Hydro-static
1	15.78	102.54	Open To Flow (1)
20	16.87	103.11	Shut-In(1)
81	809.49	103.77	End Shut-In(1)
81	18.80	103.46	Open To Flow (2)
95	17.75	103.67	Shut-In(2)
158	706.01	104.24	End Shut-In(2)
159	1434.72	104.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud with a film of oil	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary & Associates Inc

TH Phillips #1-3

1515 Wynkoop,
Ste 700
Denver Co 80202
ATTN: Tom Fertel

3-16s-11w

Job Ticket: 37248

DST#: 1

Test Start: 2010.07.09 @ 04:24:05

Tool Information

Drill Pipe:	Length: 2975.00 ft	Diameter: 3.80 inches	Volume: 41.73 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 38000.00 lb
			<u>Total Volume: 41.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	2985.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2957.00	
Shut In Tool	5.00			2962.00	
Hydraulic tool	5.00			2967.00	
Jars	5.00			2972.00	
Safety Joint	3.00			2975.00	
Packer	5.00			2980.00	29.00 Bottom Of Top Packer
Packer	5.00			2985.00	
Stubb	1.00			2986.00	
Perforations	3.00			2989.00	
Recorder	0.00	8017	Inside	2989.00	
Recorder	0.00	8352	Outside	2989.00	
Change Over Sub	1.00			2990.00	
Blank Spacing	31.00			3021.00	
Change Over Sub	1.00			3022.00	
Perforations	5.00			3027.00	
Bullnose	3.00			3030.00	45.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary & Associates Inc

TH Phillips #1-3

1515 Wynkoop,
Ste 700
Denver Co 80202
ATTN: Tom Fertel

3-16s-11w

Job Ticket: 37248

DST#: 1

Test Start: 2010.07.09 @ 04:24:05

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: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud with a film of oil	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

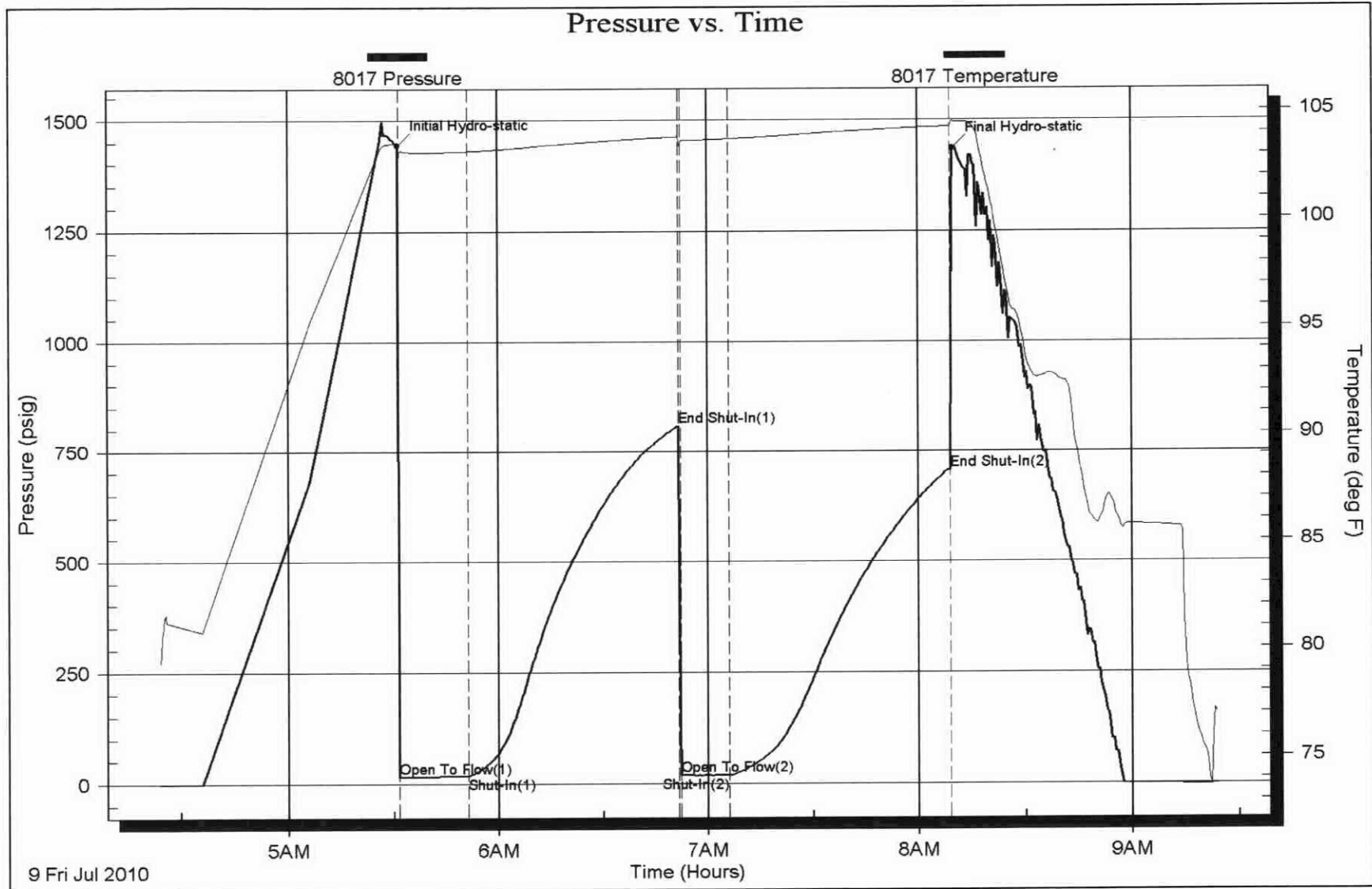
Num Gas Bombs: 0

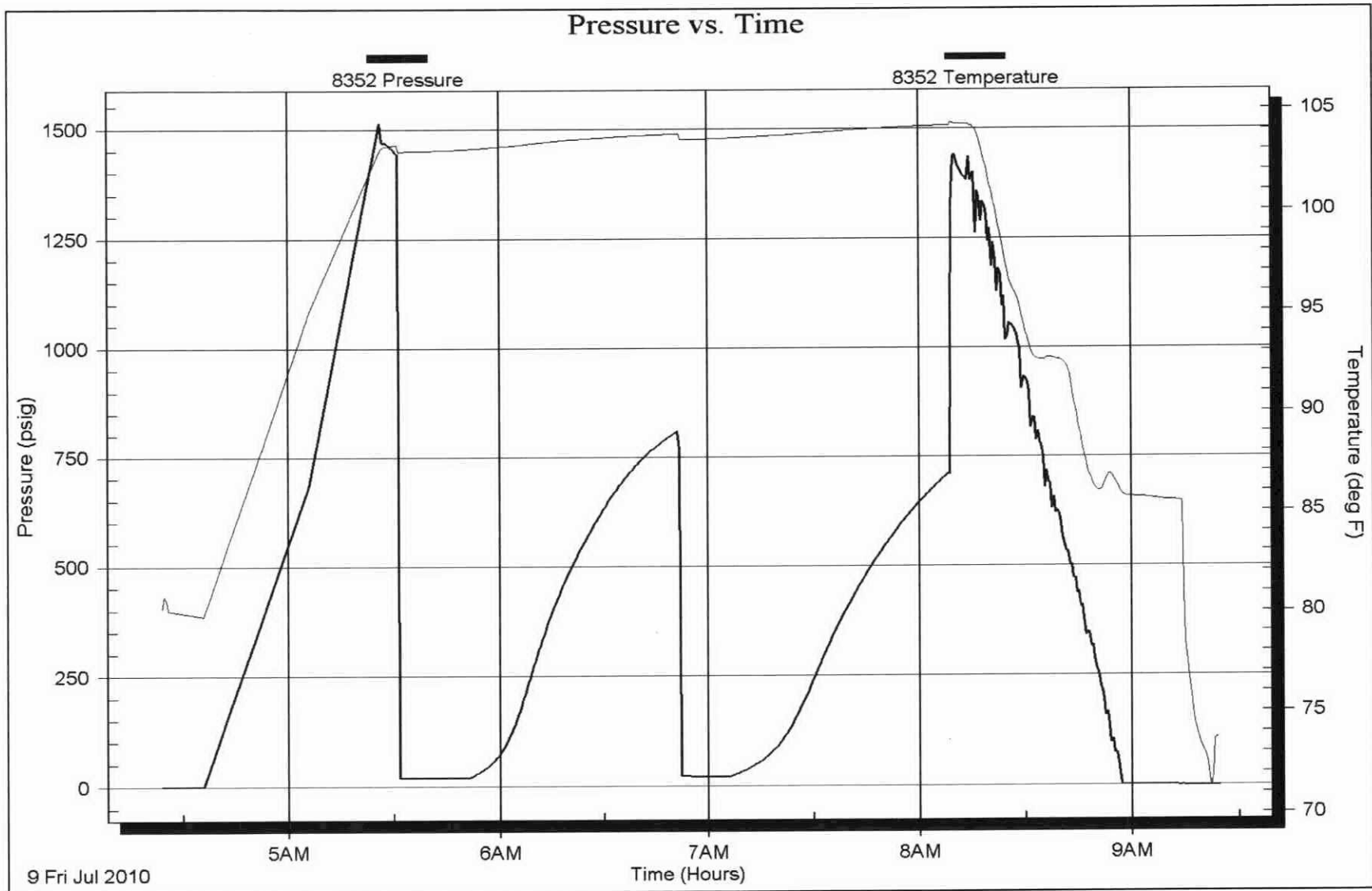
Serial #:

Laboratory Name:

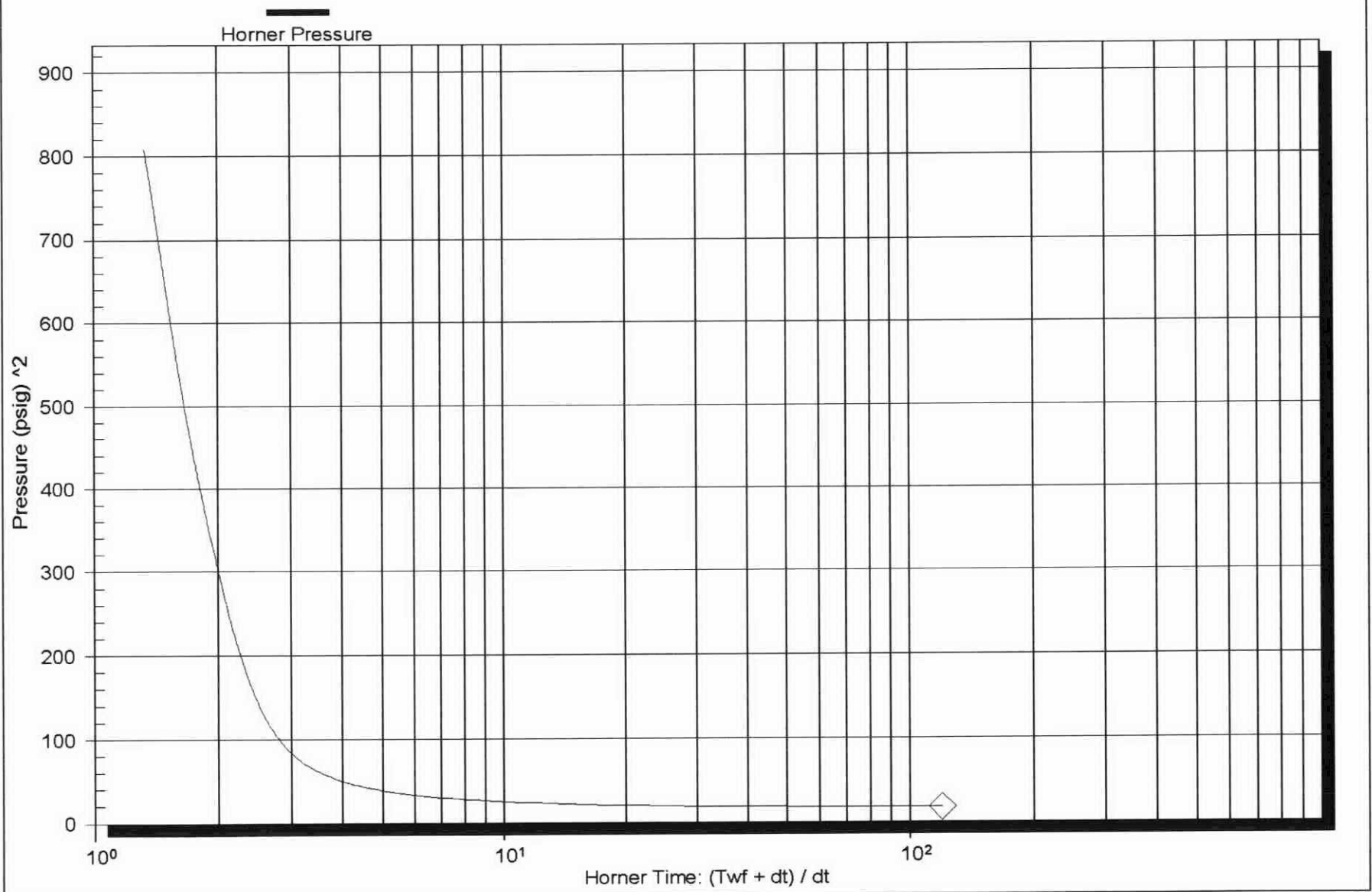
Laboratory Location:

Recovery Comments:





Horner Plot



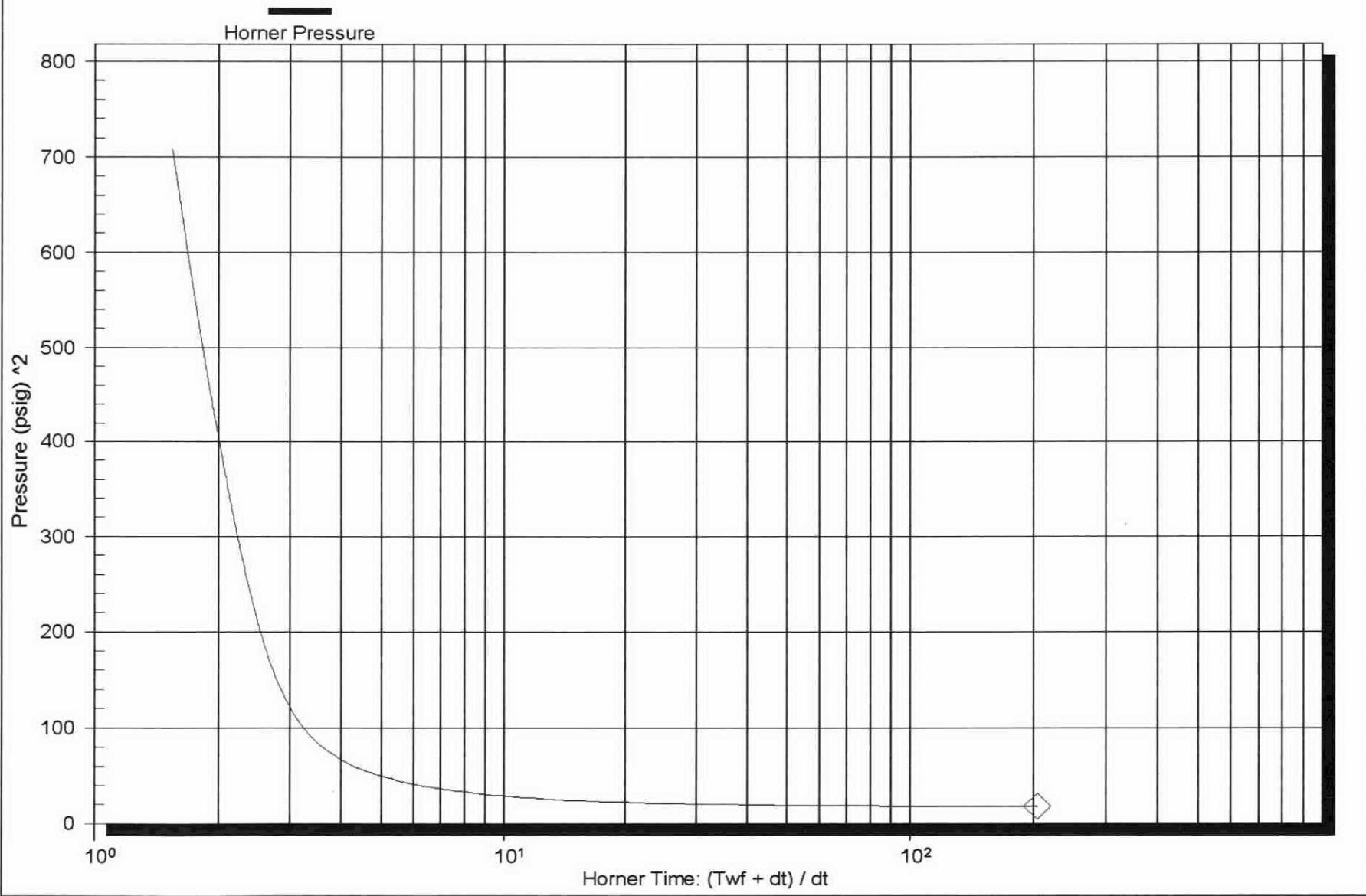
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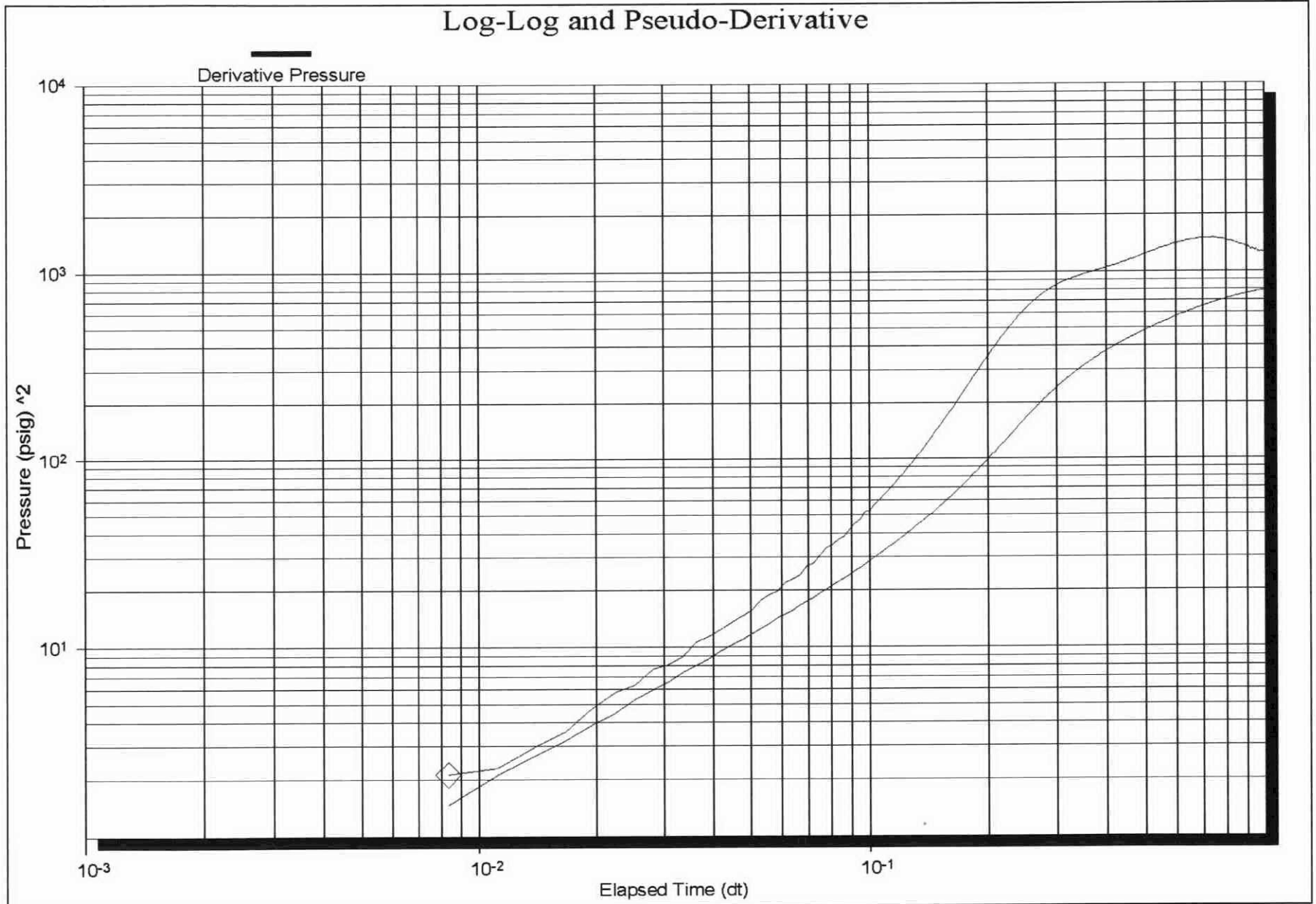
P* :

Slope (m) : kpa/log cycle

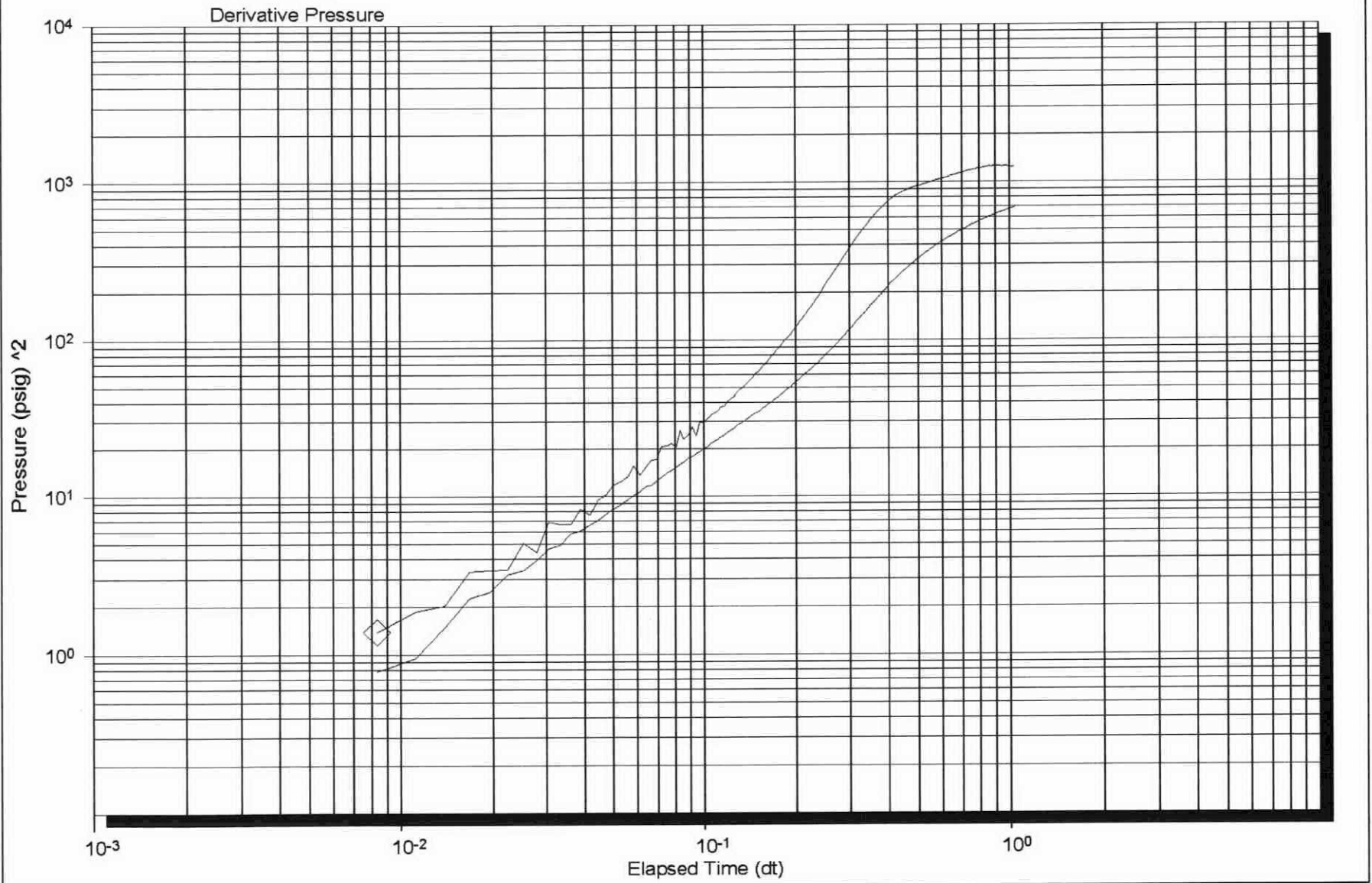
Flow Cycle: 1

Horner Plot





Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary & AssociatesInc**

1515 Wynkoop,
Ste 700
Denver Co 80202

ATTN: Tom Fertel

3-16s-11w

TH Phillips #1-3

Start Date: 2010.07.10 @ 23:55:15

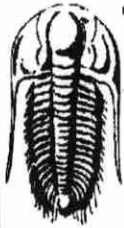
End Date: 2010.07.11 @ 06:03:24

Job Ticket #: 37249 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 & Associates Inc
 1515 Wynkoop,
 Ste 700
 Denver Co 80202
 ATTN: Tom Fertel

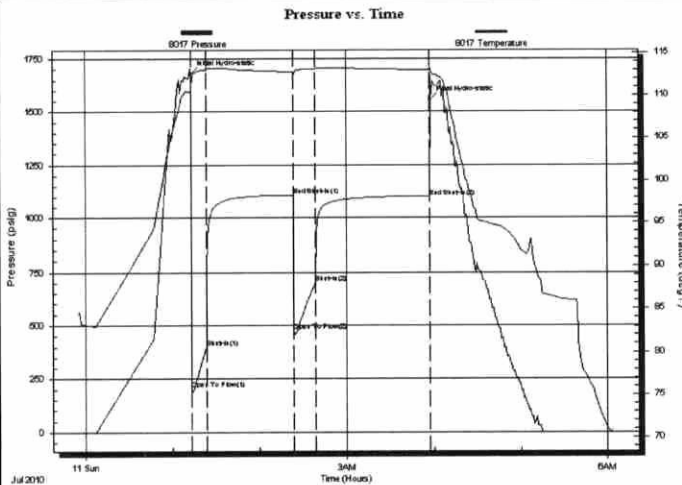
TH Phillips #1-3
3-16s-11w
 Job Ticket: 37249 **DST#: 2**
 Test Start: 2010.07.10 @ 23:55:15

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:13:25
 Time Test Ended: 06:03:24
 Interval: **3329.00 ft (KB) To 3341.00 ft (KB) (TVD)**
 Total Depth: 3414.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle
 Tester: Jeff brown
 Unit No: 31
 Reference Elevations: 1873.00 ft (KB)
 1863.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8017 Inside
 Press@RunDepth: 699.38 psig @ 3332.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.07.10 End Date: 2010.07.11 Last Calib.: 2010.07.11
 Start Time: 23:55:20 End Time: 06:03:25 Time On Btm: 2010.07.11 @ 01:12:55
 Time Off Btm: 2010.07.11 @ 03:57:15

TEST COMMENT: IFP-Strong blow BOB in 30 sec
 IS-Dead no blow back
 FFP-Strong blow BOB in 1 min
 FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.47	110.61	Initial Hydro-static
1	203.67	111.15	Open To Flow (1)
11	398.90	113.04	Shut-In(1)
71	1109.04	112.79	End Shut-In(1)
71	472.98	112.46	Open To Flow (2)
86	699.38	113.12	Shut-In(2)
165	1097.85	113.01	End Shut-In(2)
165	1555.49	113.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Free oil	0.14
31.00	VSOCM 2% O98% M	0.43
992.00	SOCW 5% O95% W	13.92
496.00	Water	6.96

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary & Associates Inc

1515 Wynkoop,
Ste 700
Denver Co 80202
ATTN: Tom Fertel

TH Phillips #1-3

3-16s-11w

Job Ticket: 37249

DST#: 2

Test Start: 2010.07.10 @ 23:55:15

Tool Information

Drill Pipe:	Length: 3327.00 ft	Diameter: 3.80 inches	Volume: 46.67 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 46.67 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	34000.00 lb
Depth to Top Packer:	3329.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	3341.00 ft				
Interval between Packers:	12.00 ft				
Tool Length:	113.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3306.00	
Hydraulic tool	5.00			3311.00	
Jars	5.00			3316.00	
Safety Joint	3.00			3319.00	
Packer	5.00			3324.00	28.00 Bottom Of Top Packer
Packer	5.00			3329.00	
Stubb	1.00			3330.00	
Perforations	2.00			3332.00	
Recorder	0.00	8017	Inside	3332.00	
Recorder	0.00	8650	Outside	3332.00	
Perforations	5.00			3337.00	
Blank Off Sub	1.00			3338.00	
Blank Spacing	3.00			3341.00	12.00 Tool Interval
Packer	1.00			3342.00	
Stubb	1.00			3343.00	
Perforations	3.00			3346.00	
Change Over Sub	1.00			3347.00	
Recorder	0.00	8352	Outside	3347.00	
Drill Pipe	62.00			3409.00	
Change Over Sub	1.00			3410.00	
Recorder	0.00	6668	Inside	3410.00	
Perforations	1.00			3411.00	
Bullnose	3.00			3414.00	73.00 Bottom Packers & Anchor
Total Tool Length:	113.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary & Associates Inc

TH Phillips #1-3

1515 Wynkoop,
Ste 700
Denver Co 80202
ATTN: Tom Fertel

3-16s-11w

Job Ticket: 37249

DST#: 2

Test Start: 2010.07.10 @ 23:55:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 37 deg API

Mud Weight: 10.00 lb/gal

Cushion Length: ft

Water Salinity: 21000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume: bbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Free oil	0.140
31.00	VSOCM 2%O98%M	0.435
992.00	SOCW 5%O95%W	13.915
496.00	Water	6.958

Total Length: 1529.00 ft Total Volume: 21.448 bbl

Num Fluid Samples: 0

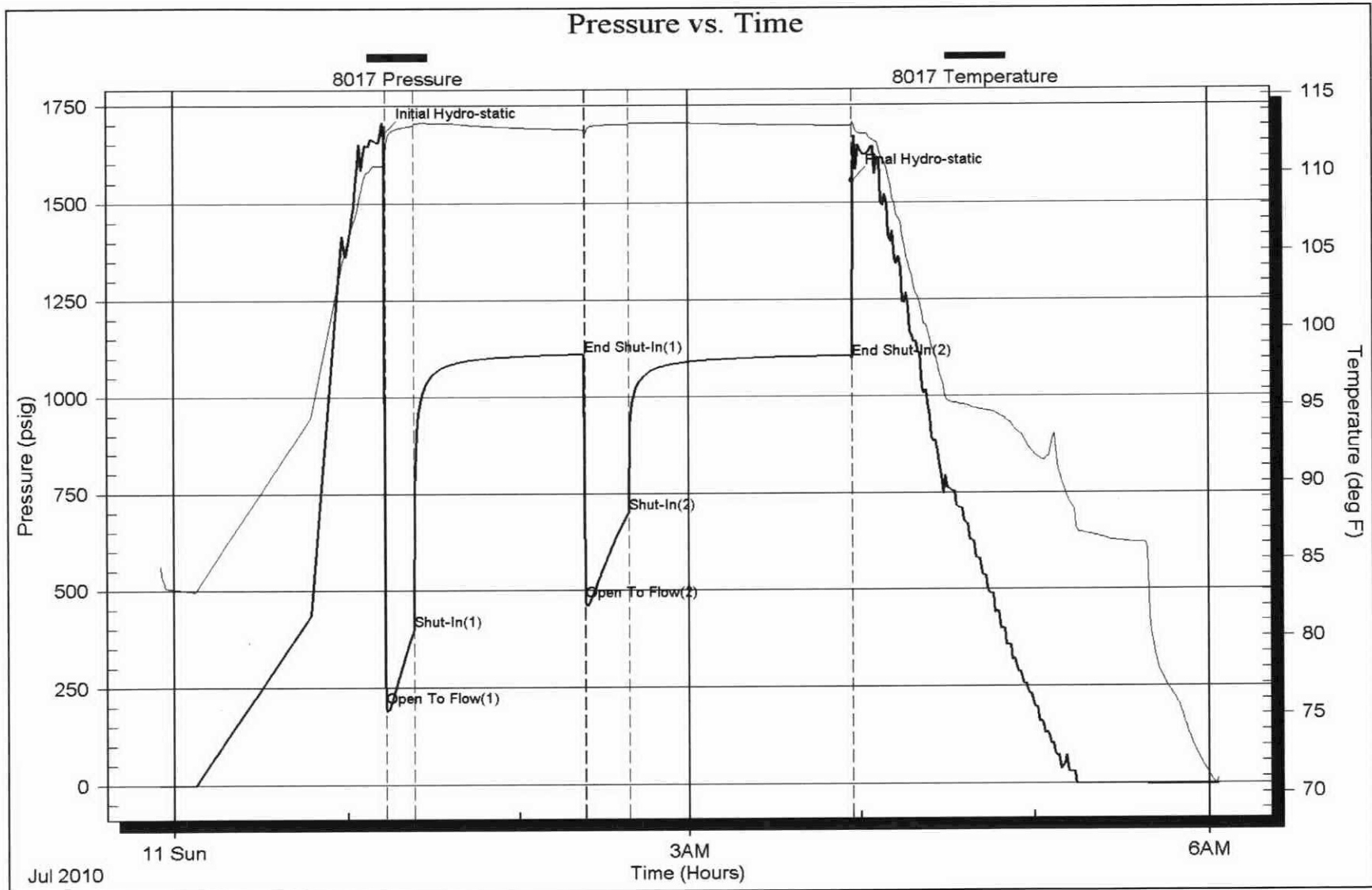
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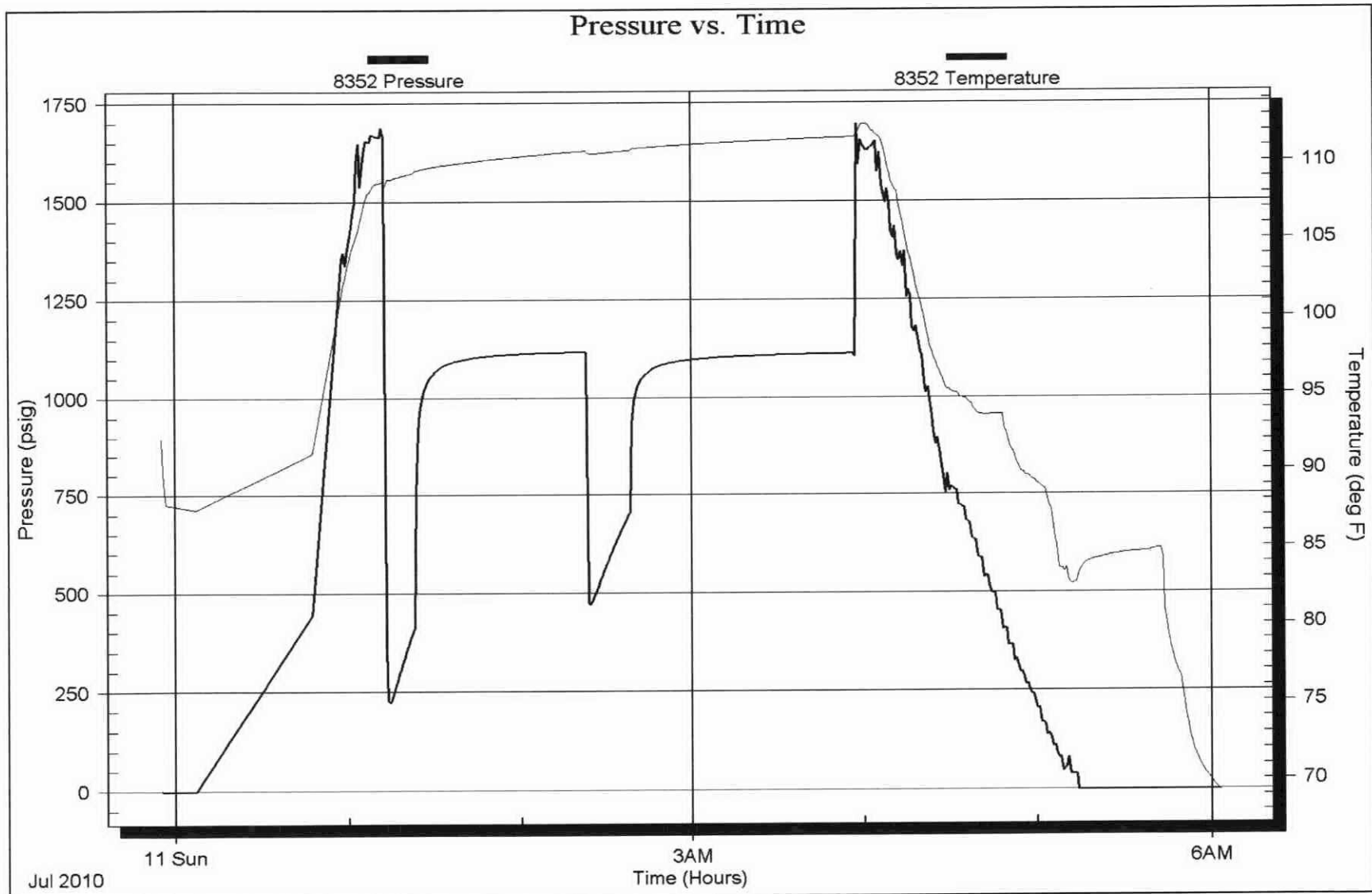
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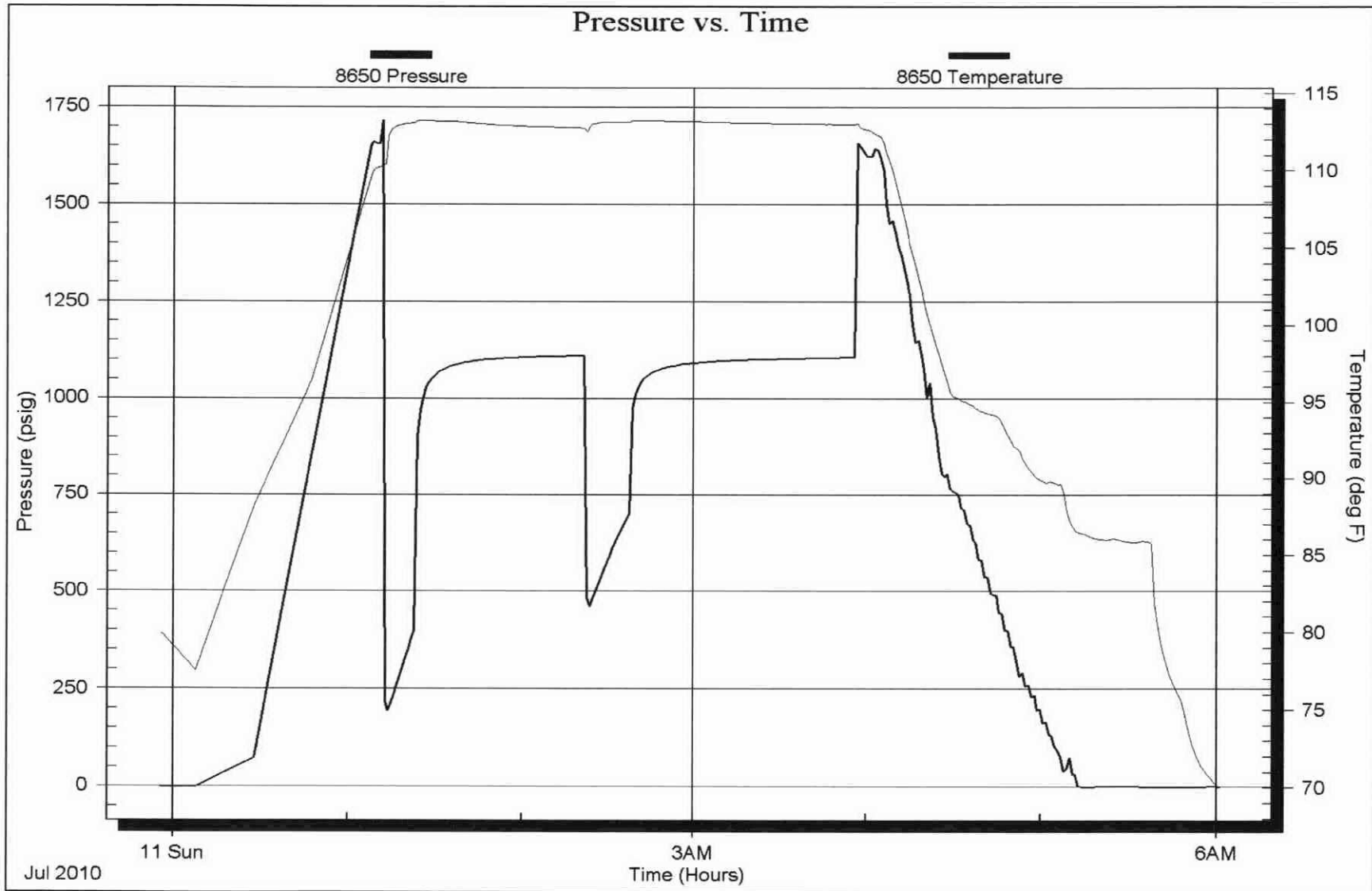
Laboratory Name:

Laboratory Location:

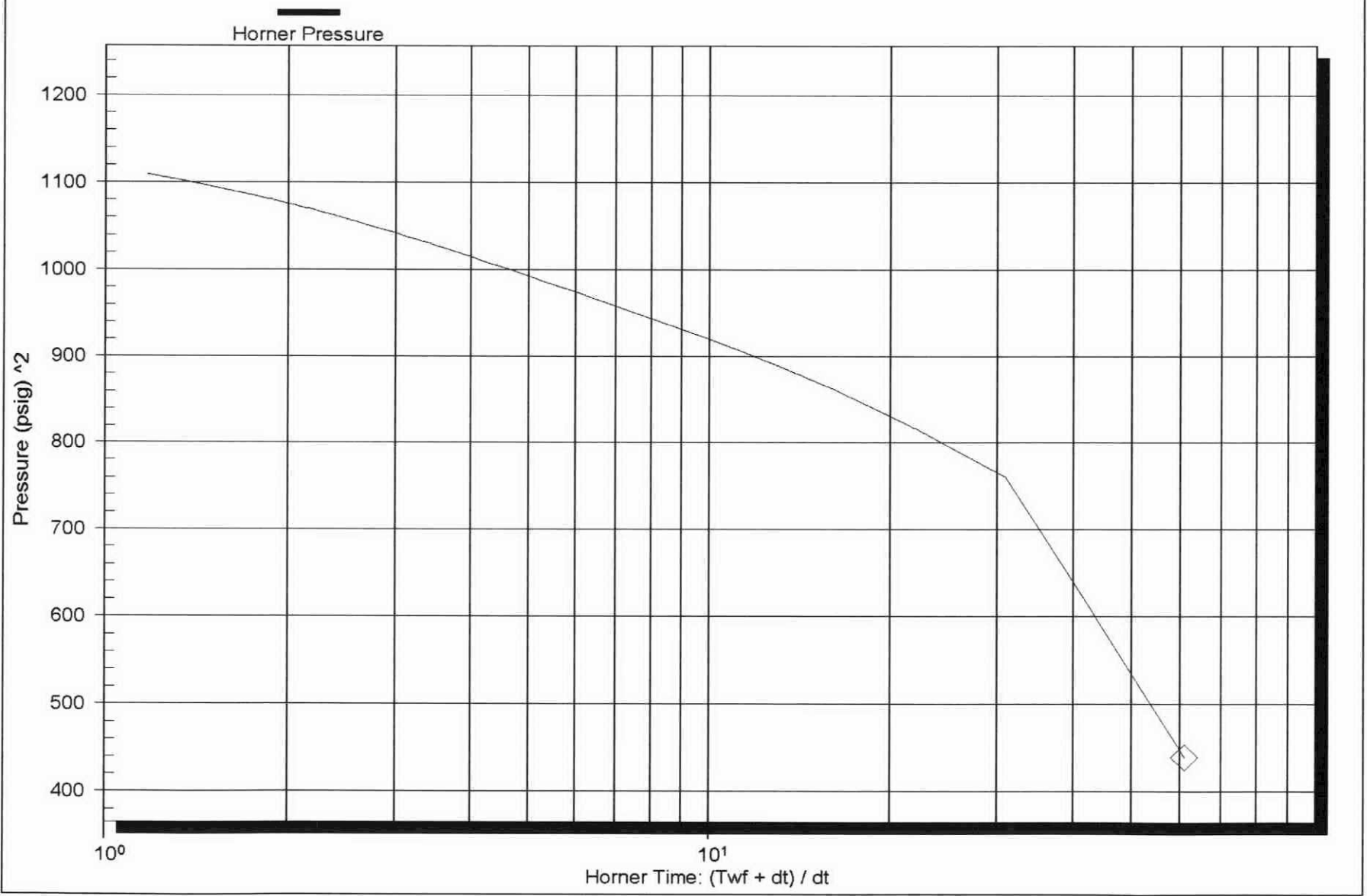
Recovery Comments:



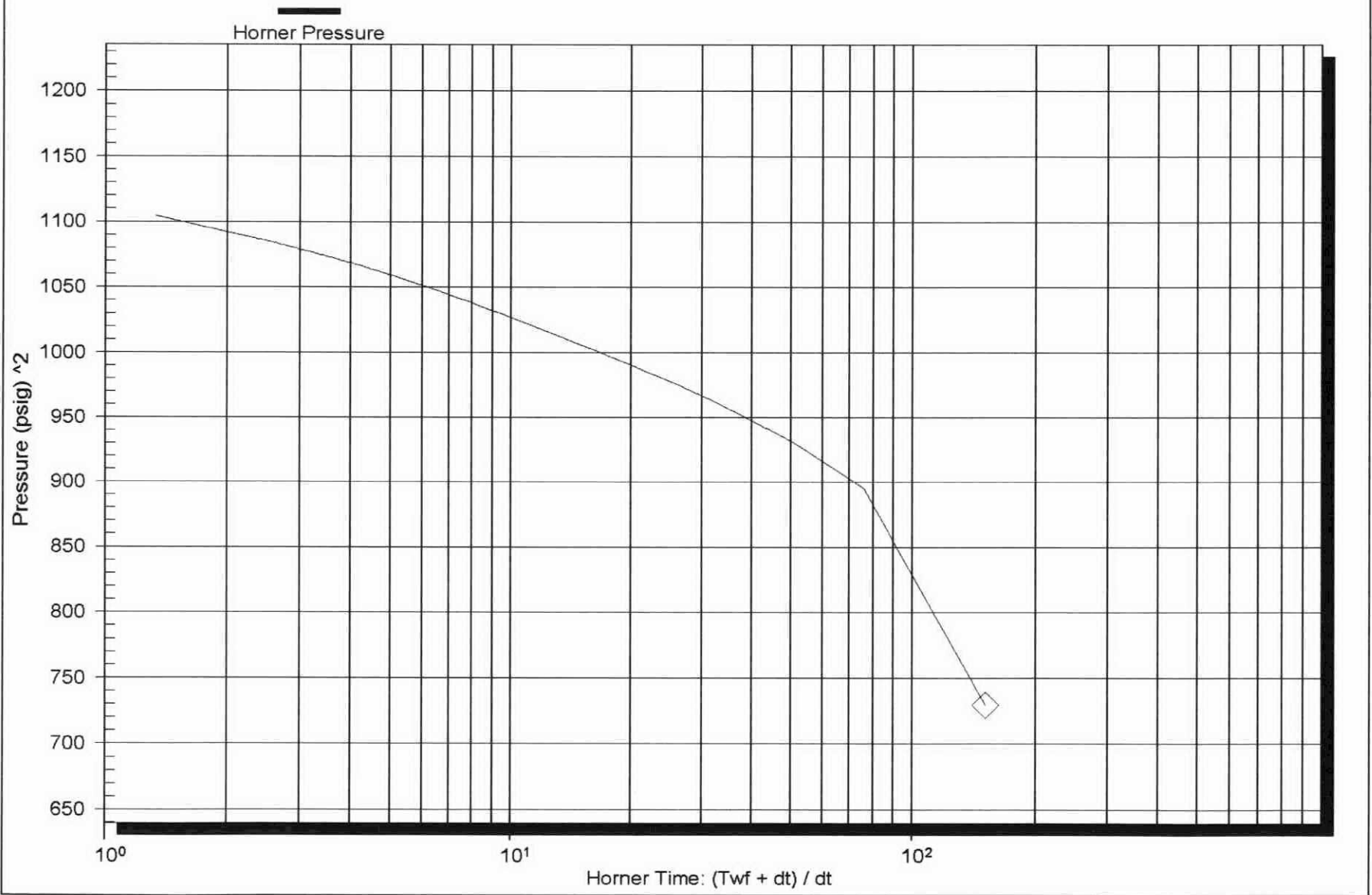


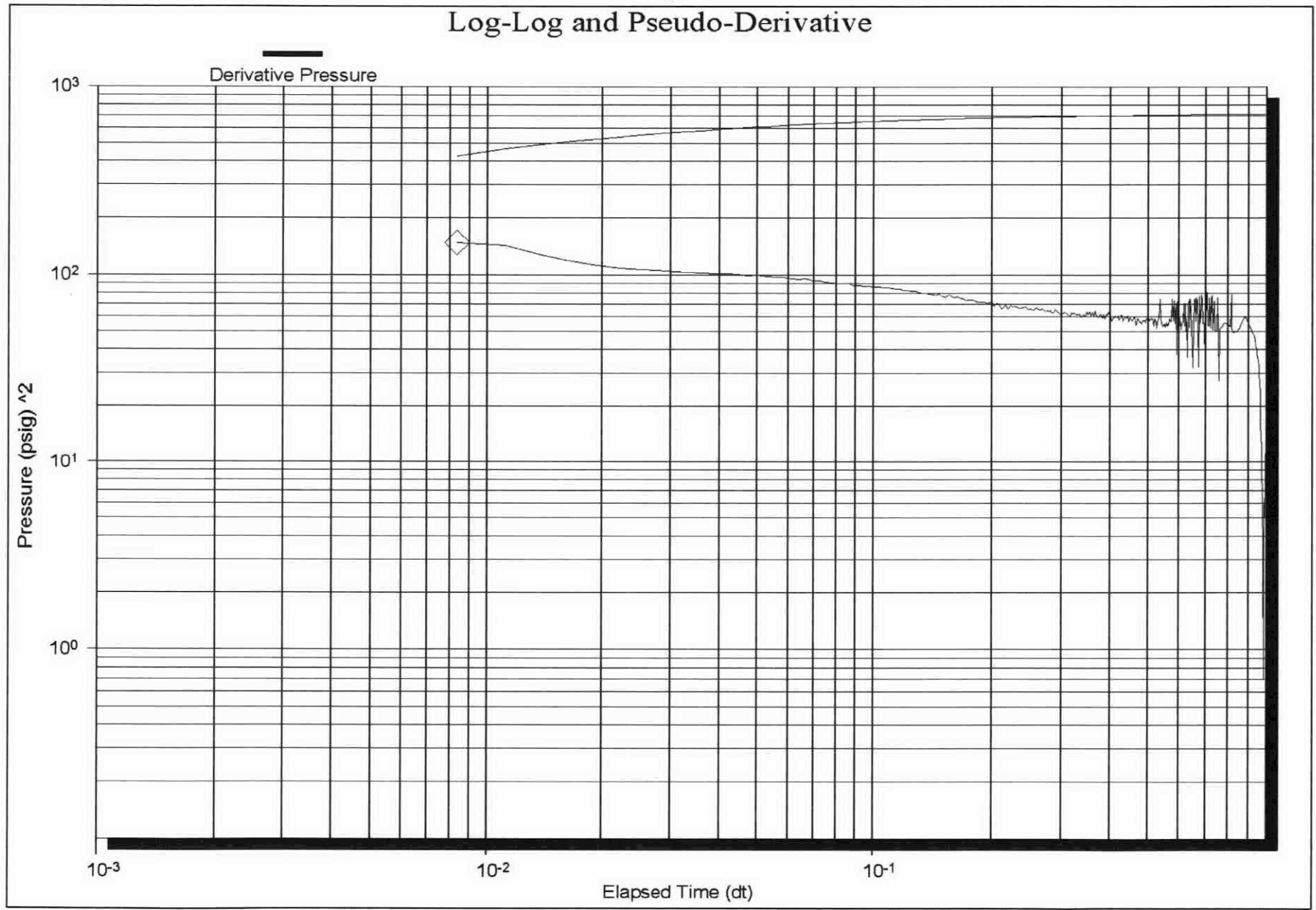


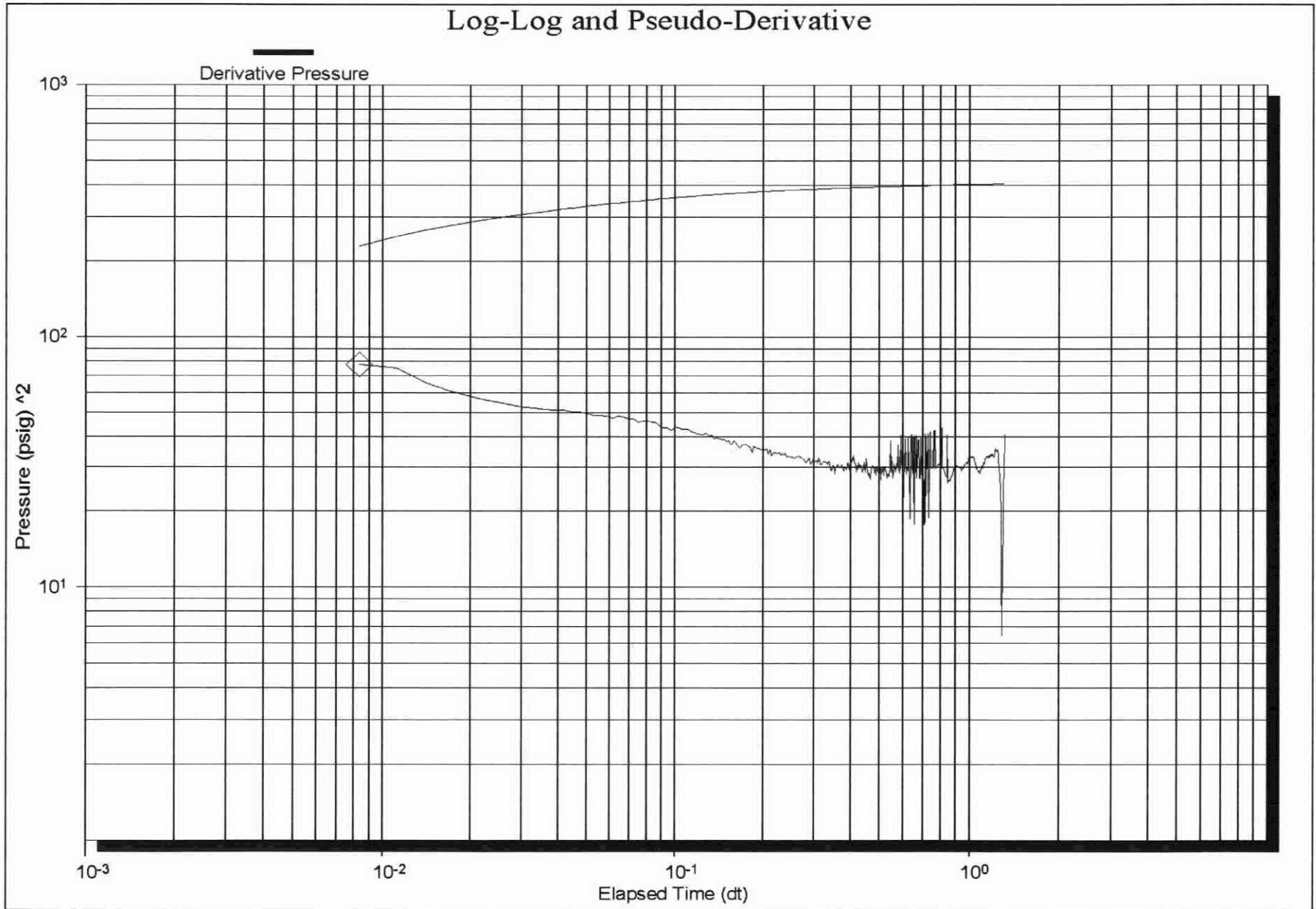
Horner Plot

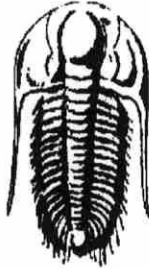


Horner Plot









**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1515 Wynkoop Ste. 700
Denver, Co
80202

ATTN: Tom Fertal

3-16-11/Barton

T H Phillips 1-3

Start Date: 2010.07.11 @ 20:13:58

End Date: 2010.07.12 @ 03:04:22

Job Ticket #: 38965 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

Sam Gary
1515 Wynkoop Ste. 700
Denver, Co
80202
ATTN: Tom Fertal

T H Phillips 1-3
3-16-11/Barton
Job Ticket: 38965 **DST#: 3**
Test Start: 2010.07.11 @ 20:13:58

GENERAL INFORMATION:

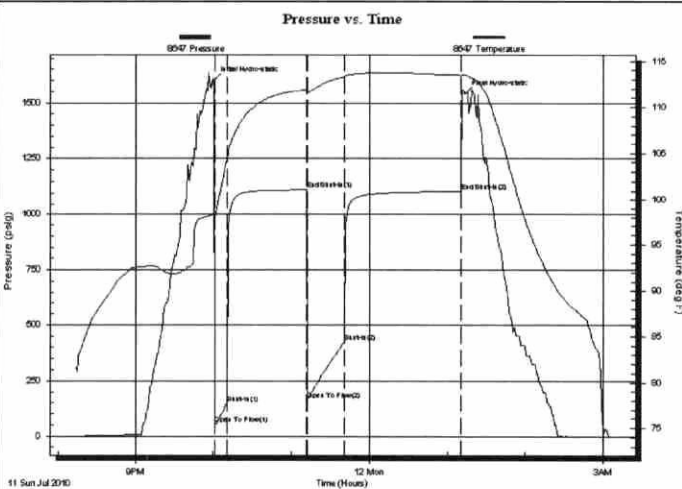
Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:01:23
Time Test Ended: 03:04:22
Interval: **3334.00 ft (KB) To 3342.00 ft (KB) (TVD)**
Total Depth: 3420.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Straddle
Tester: Brian Fairbank
Unit No: 41
Reference Elevations: 1873.00 ft (KB)
1863.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8647

Inside

Press@RunDepth: 422.23 psig @ 3335.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.07.11 End Date: 2010.07.12 Last Calib.: 2010.07.12
Start Time: 20:13:58 End Time: 03:04:22 Time On Btm: 2010.07.11 @ 22:00:23
Time Off Btm: 2010.07.12 @ 01:13:22

TEST COMMENT: IFP - BOB 2 min.
ISI - weak sur blow back - died 19 min.
FFP - BOB 2 1/2 min.
FSI - 1" blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.36	98.37	Initial Hydro-static
1	54.86	97.91	Open To Flow (1)
10	147.86	104.38	Shut-In(1)
71	1114.30	111.88	End Shut-In(1)
72	165.63	111.66	Open To Flow (2)
100	422.23	113.25	Shut-In(2)
190	1108.33	113.45	End Shut-In(2)
193	1542.29	113.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
560.00	MW 95%W, 5%M	7.86
215.00	M & OCW 10%O, 85%W, 5%M	3.02
70.00	GMWCO 10%G, 40%O, 40%W, 10%M	0.98
90.00	FREE OIL 95%O, 5%M	1.26
0.00	60' GIP	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary
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Job Ticket: 38965 **DST#: 3**
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Tool Information

Drill Pipe:	Length: 3321.00 ft	Diameter: 3.80 inches	Volume: 46.58 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 46.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3334.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	3342.00 ft			
Interval between Packers:	8.00 ft			
Tool Length:	117.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3312.00	
Hydraulic tool	5.00			3317.00	
Jars	5.00			3322.00	
Safety Joint	2.00			3324.00	
Packer	5.00			3329.00	27.00 Bottom Of Top Packer
Packer	5.00			3334.00	
Stubb	1.00			3335.00	
Recorder	0.00	8647	Inside	3335.00	
Safety Joint	2.00			3337.00	
Blank Off Sub	1.00			3338.00	
Blank Spacing	4.00			3342.00	8.00 Tool Interval
Packer	5.00			3347.00	
Stubb	1.00			3348.00	
Perforations	14.00			3362.00	
Recorder	0.00	8372	Below	3362.00	
Blank Spacing	62.00			3424.00	82.00 Bottom Packers & Anchor
Total Tool Length:	117.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

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T H Phillips 1-3
3-16-11/Barton
Job Ticket: 38965 **DST#: 3**
Test Start: 2010.07.11 @ 20:13:58

Mud and Cushion Information

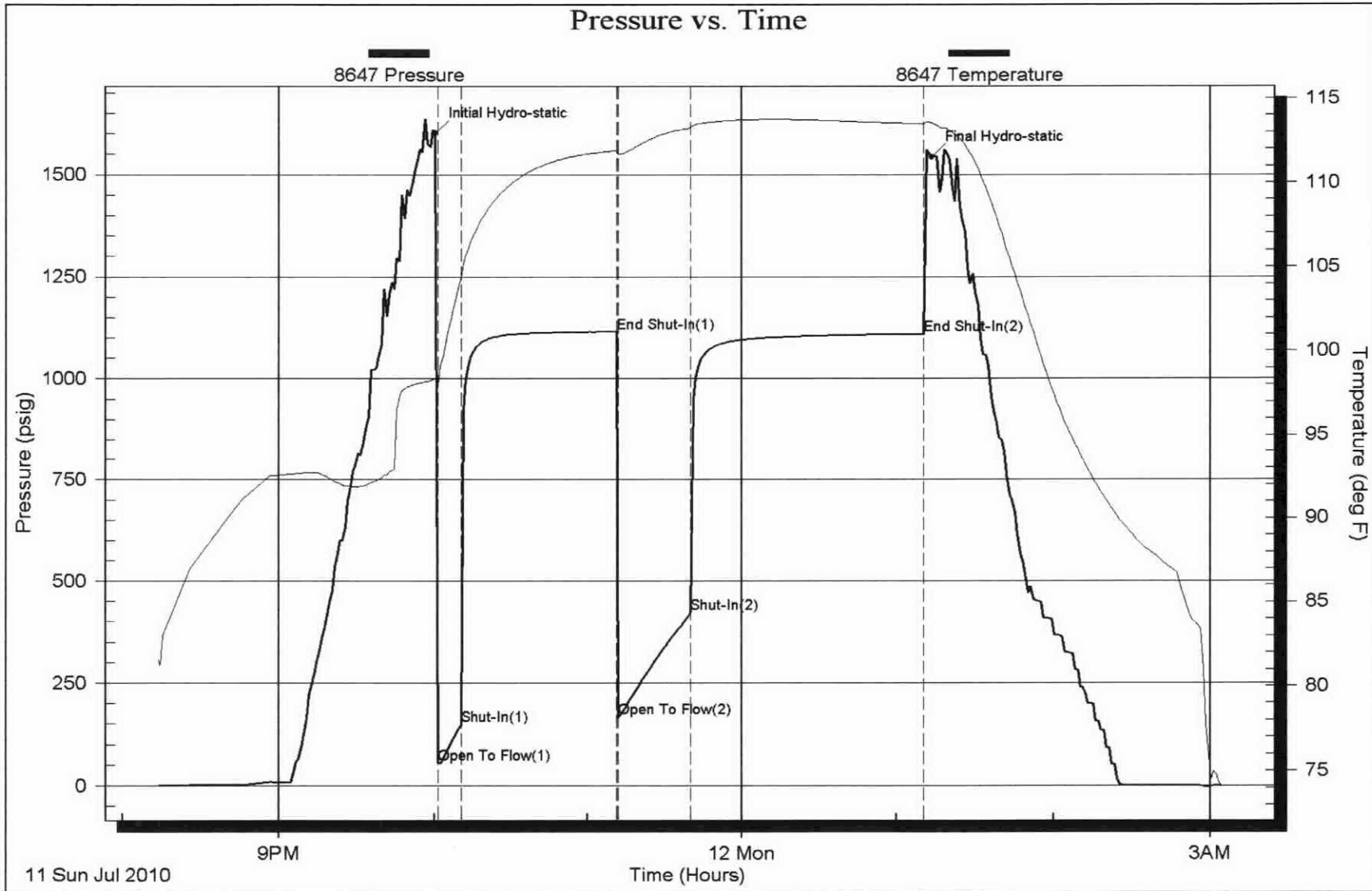
Mud Type:	Gel Chem	Cushion Type:		Oil API:	37 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	15000 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	9.15 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2500.00 ppm				
Filter Cake:	inches				

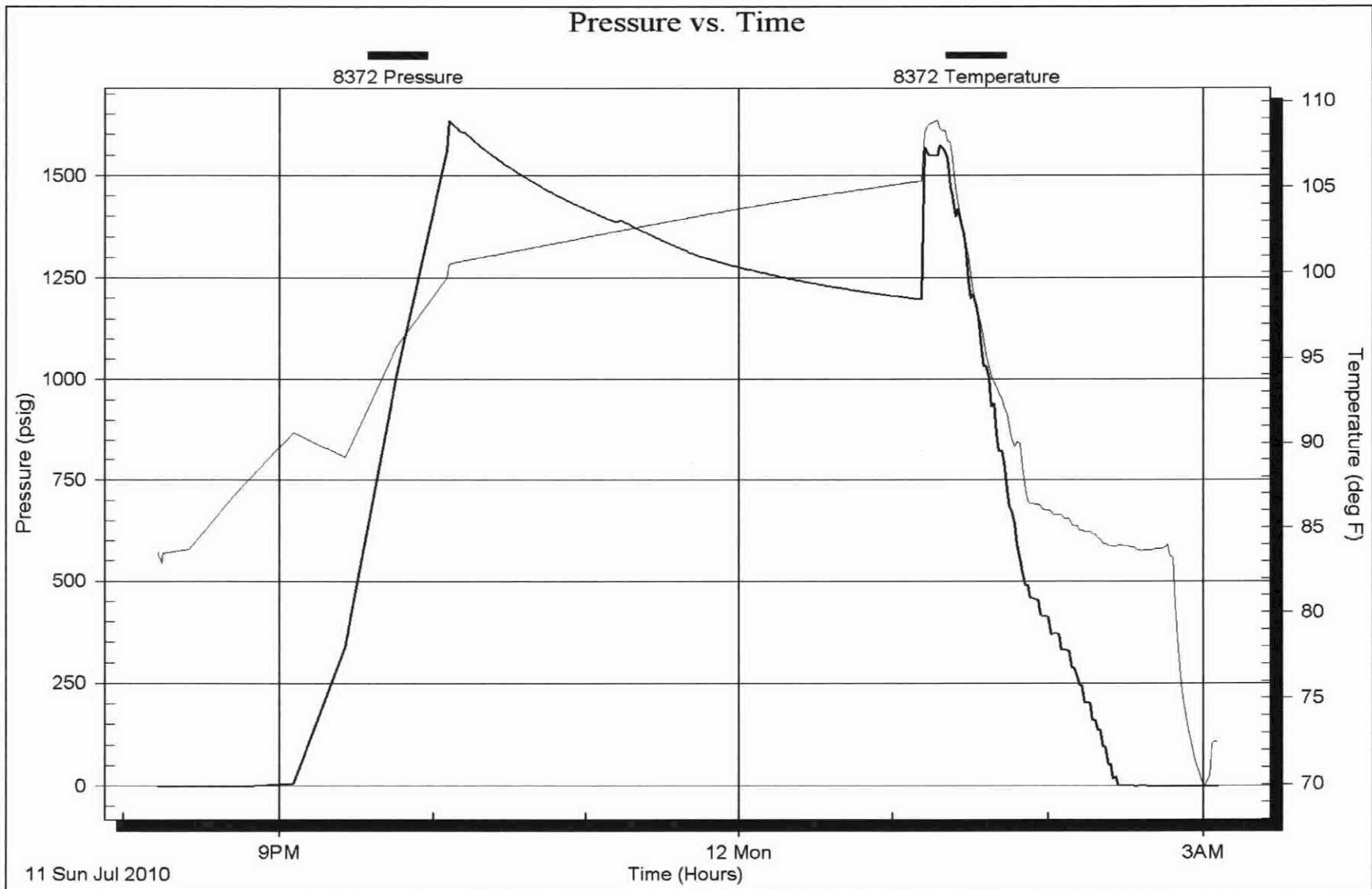
Recovery Information

Recovery Table

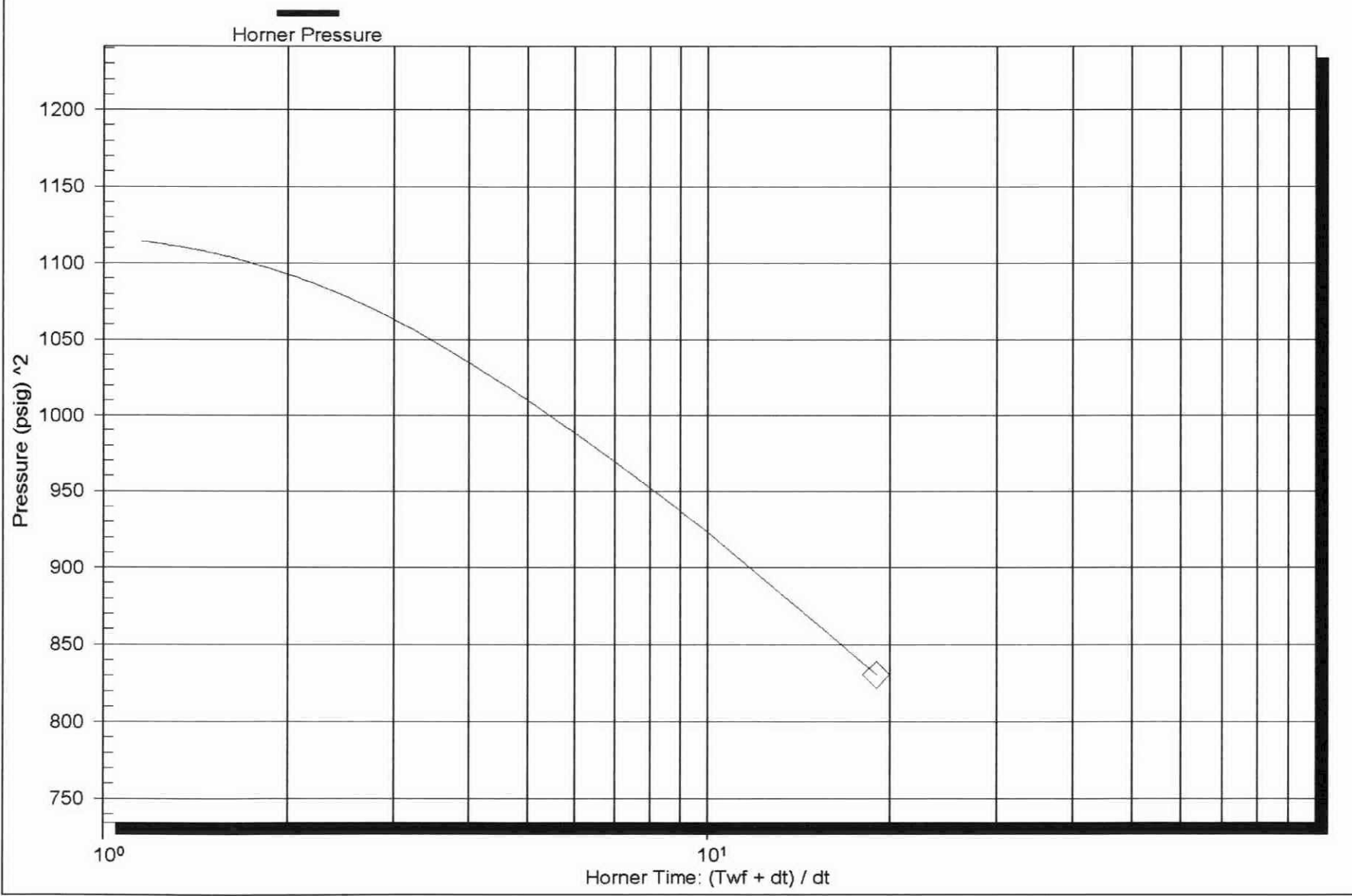
Length ft	Description	Volume bbl
560.00	MW 95%W, 5%M	7.855
215.00	M & OCW 10%O, 85%W, 5%M	3.016
70.00	GMWCO 10%G, 40%O, 40%W, 10%M	0.982
90.00	FREE OIL 95%O, 5%M	1.262
0.00	60' GIP	0.000

Total Length: 935.00 ft Total Volume: 13.115 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

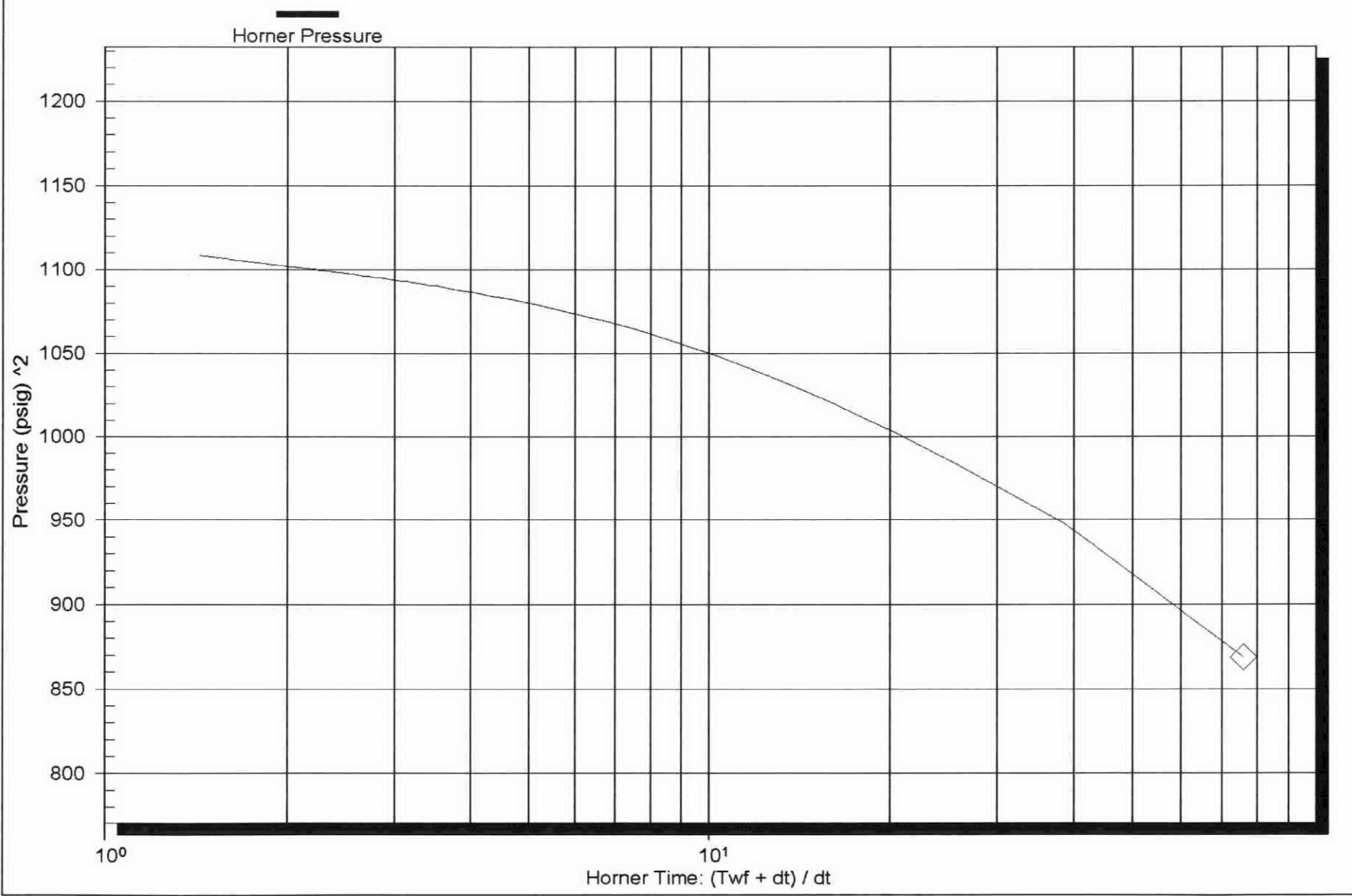




Horner Plot



Horner Plot



Log-Log and Pseudo-Derivative

