



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
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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: \_\_\_\_\_



1046350

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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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 FOCUSSED 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

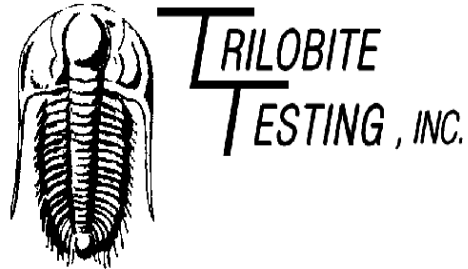
Dear Production Department:

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





## 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

Samuel Gary & AssociatesInc

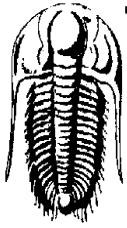
TH Phillips #1-3

3-16s-11w

DST # 1

Lansing

2010.07.09



**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:

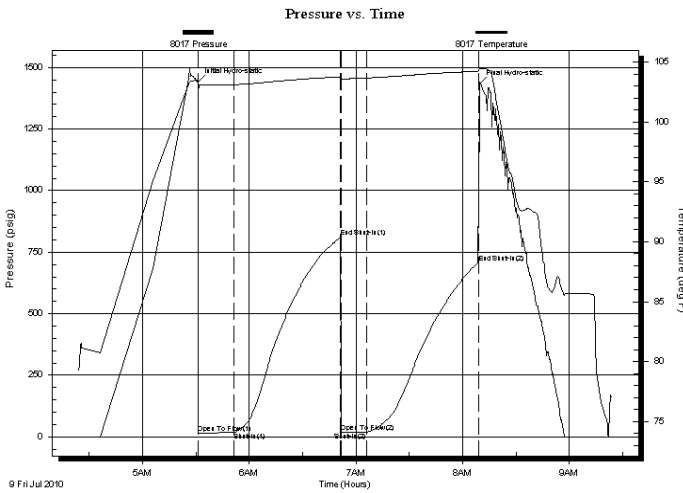
Formation: **Lansing**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:31:25  
 Time Test Ended: 09:24:05  
 Interval: **2985.00 ft (KB) To 3030.00 ft (KB) (TVD)**  
 Total Depth: 3030.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 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: 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

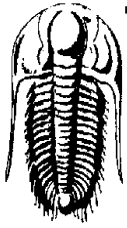
## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w 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  
1515 Wynkoop,  
Ste 700  
Denver Co 80202  
ATTN: Tom Fertel

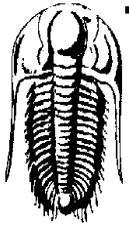
**TH Phillips #1-3**  
**3-16s-11w**  
Job Ticket: 37248      **DST#: 1**  
Test Start: 2010.07.09 @ 04:24:05

**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
<b>Total Tool Length:</b>	<b>74.00</b>				



**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: bbl		
Water Loss: 10.18 in <sup>3</sup>	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 w ith 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:



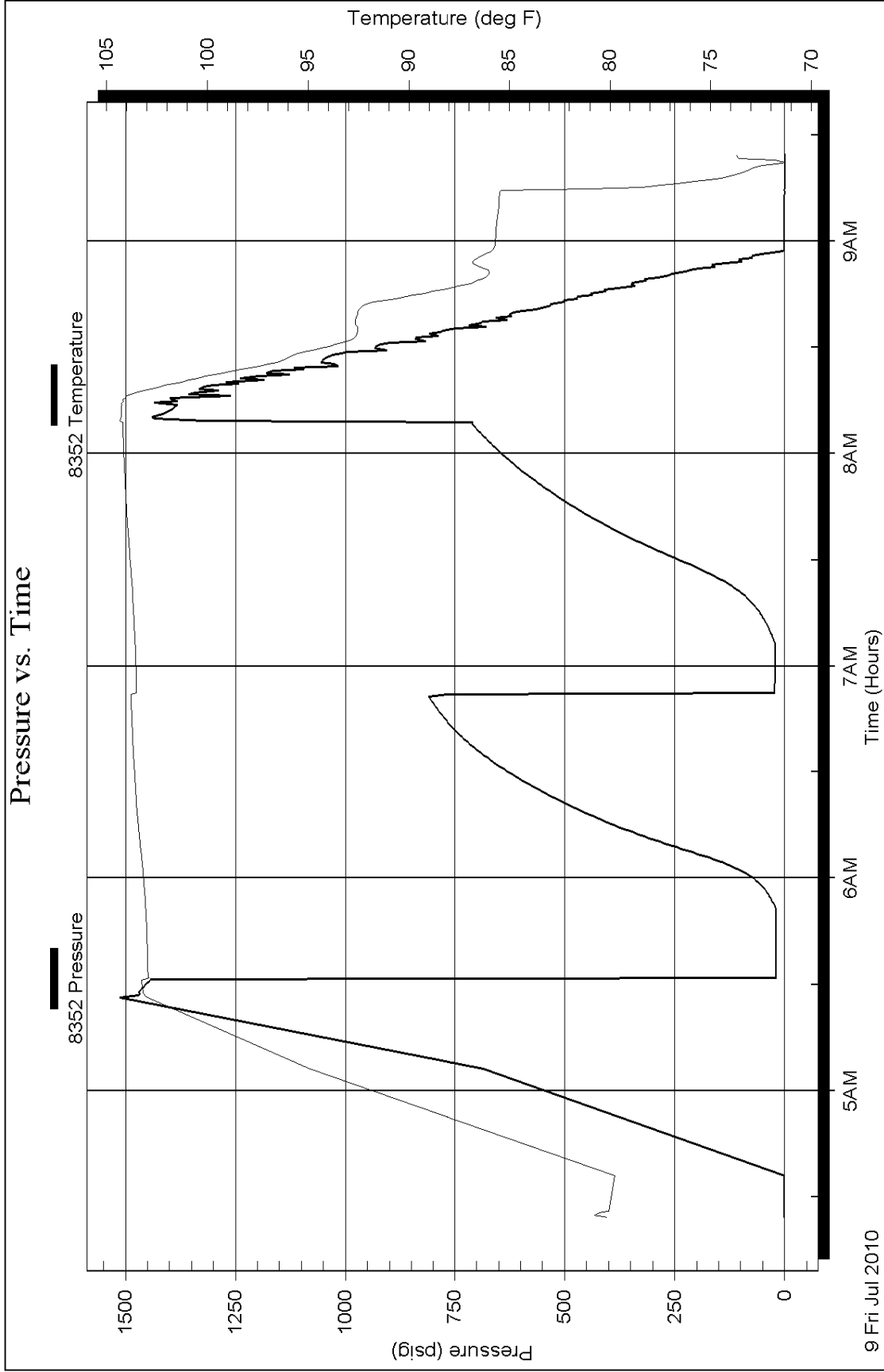
Serial #: 8352

Outside

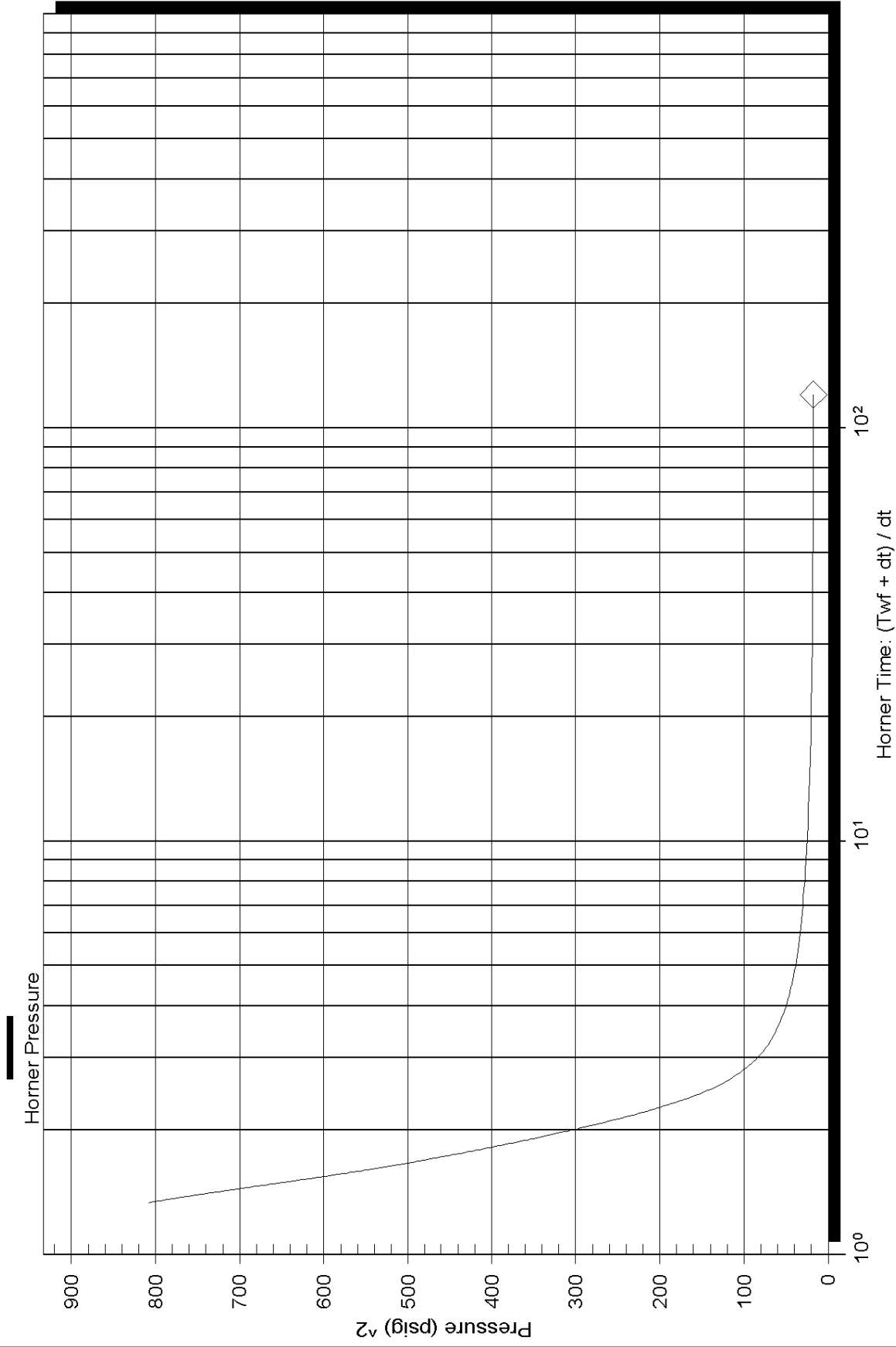
Samuel Gary & Associates Inc

3-16s-11w

DST Test Number: 1



### Horner Plot



Serial Number: 8017 (Inside)

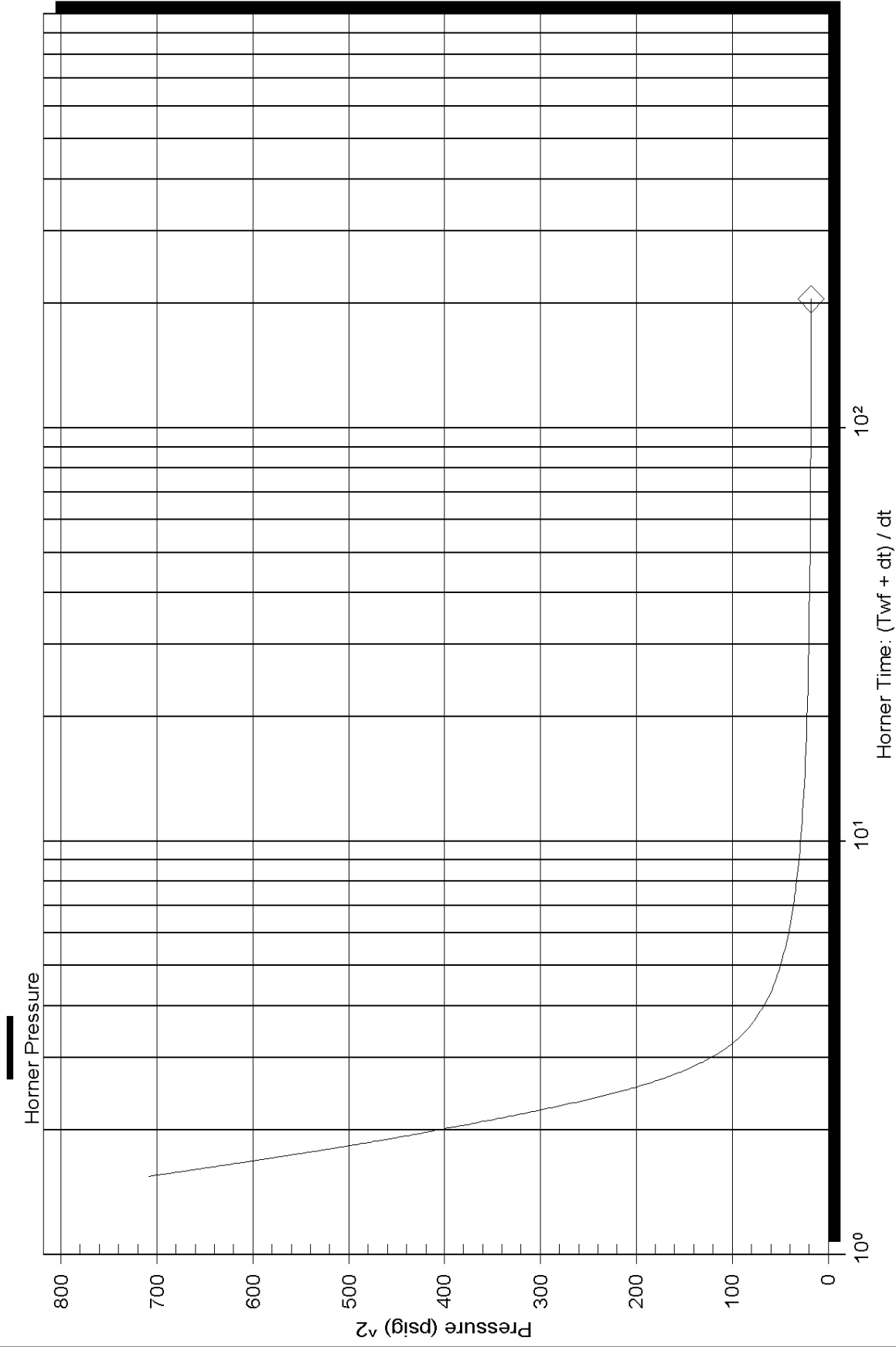
P\* :

Slope (m) : kpa/log cycle

Flow Cycle: 1



### Horner Plot



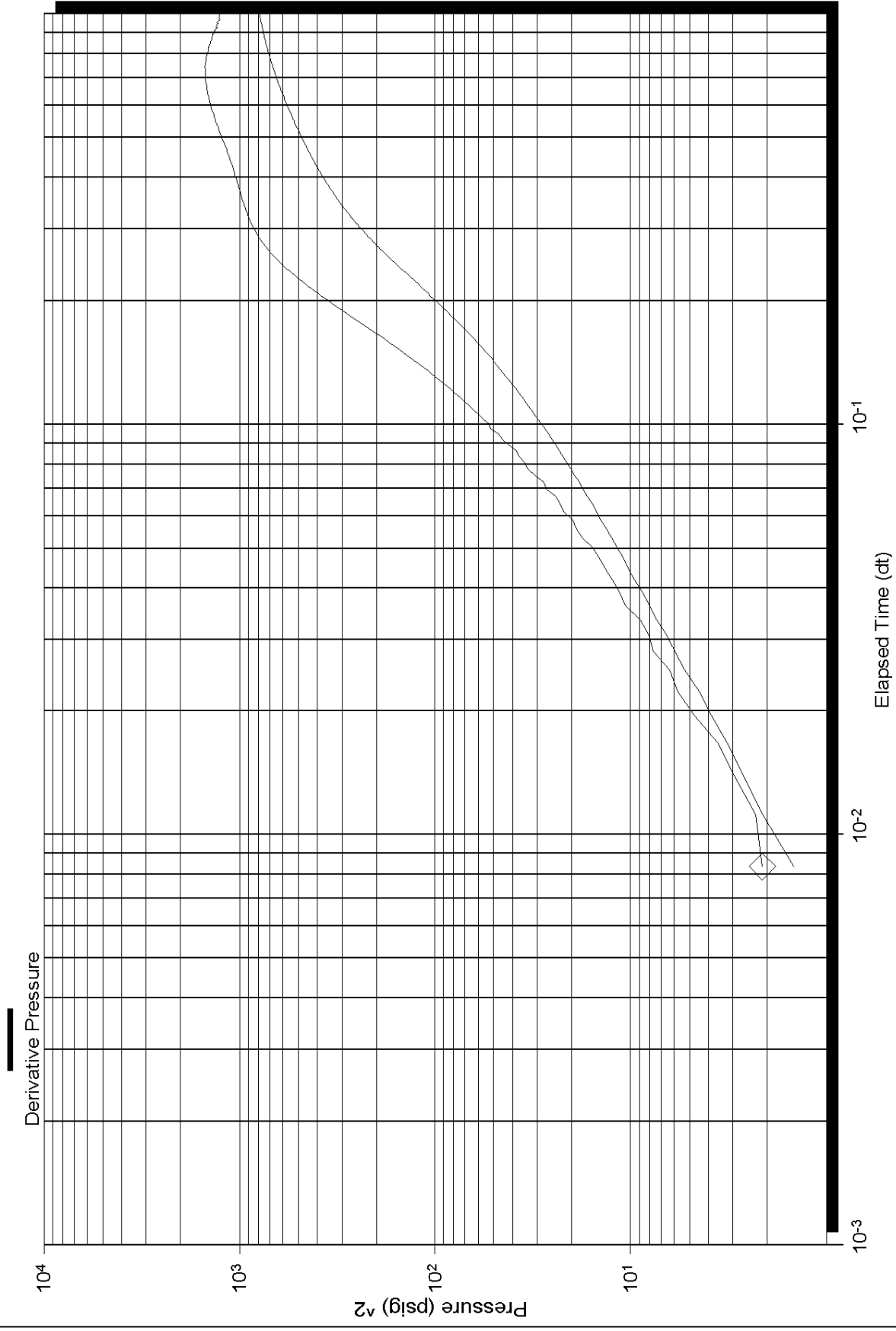
Serial Number: 8017 (Inside)

Slope (m) : kpa/log cycle

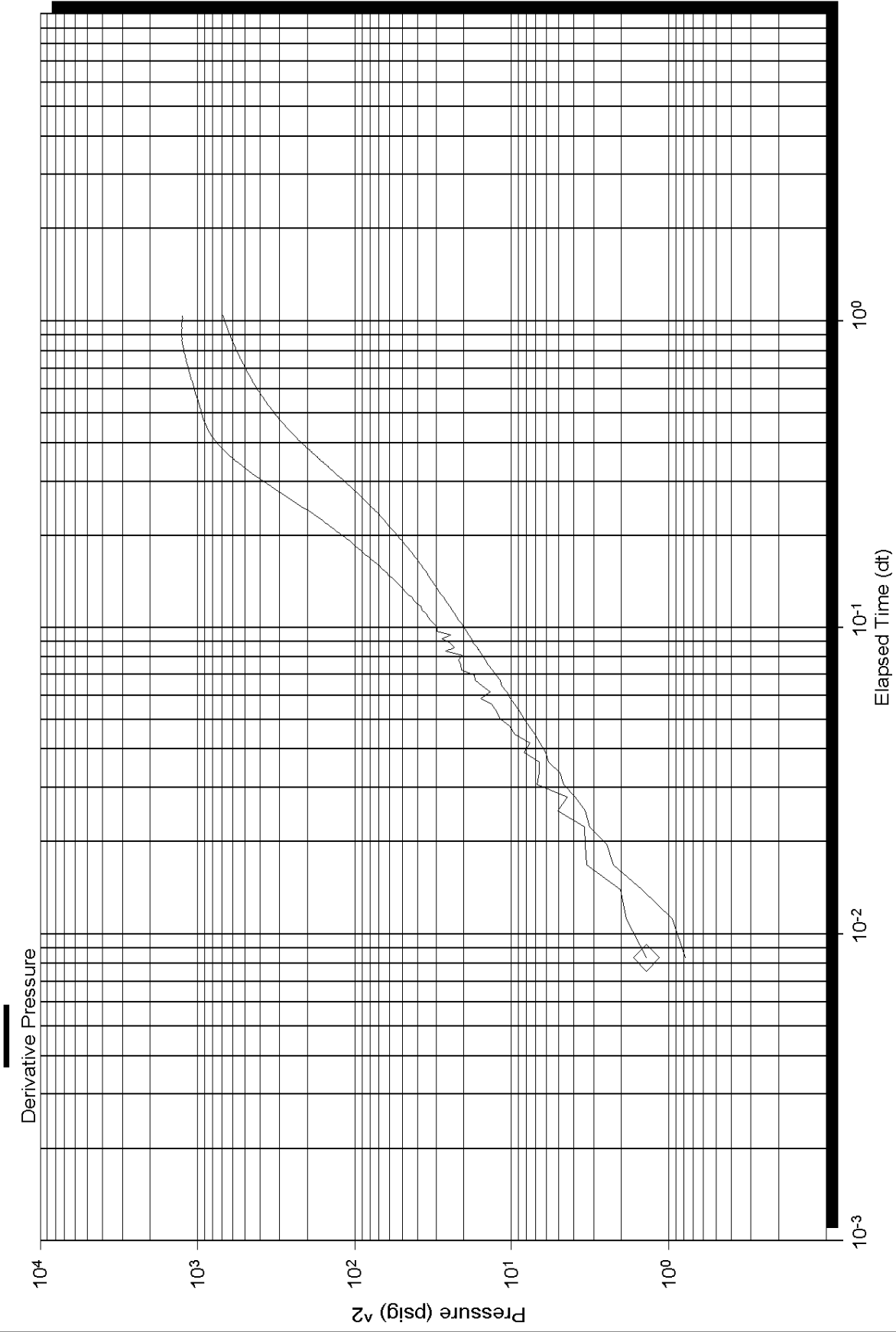
P\* :

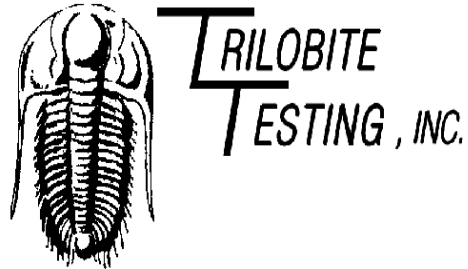
Flow Cycle: 2

# Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Log-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

Samuel Gary & AssociatesInc

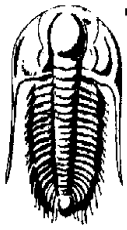
TH Phillips #1-3

3-16s-11w

DST # 2

Arbuckle

2010.07.10



**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: 37249

**DST#: 2**

Test Start: 2010.07.10 @ 23:55:15

## GENERAL INFORMATION:

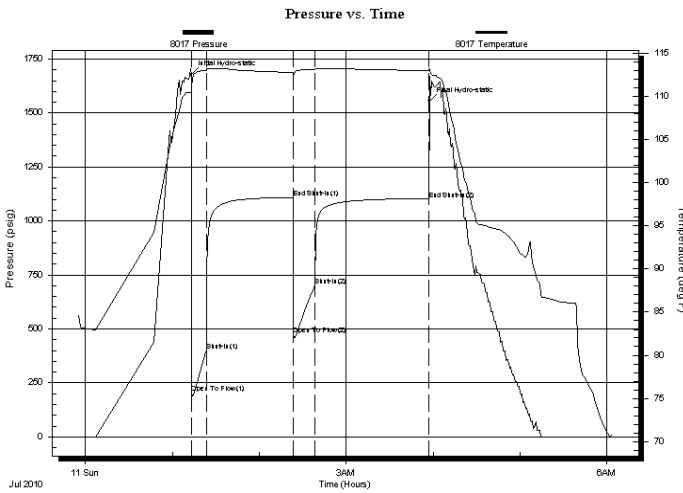
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:13:25  
 Time Test Ended: 06:03:24  
 Interval: **3329.00 ft (KB) To 3341.00 ft (KB) (TVD)**  
 Total Depth: 3414.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle  
 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

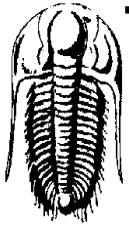
Length (ft)	Description	Volume (bbl)
10.00	Free oil	0.14
31.00	VSOCM 2%O98%M	0.43
992.00	SOCW 5%O95%W	13.92
496.00	Water	6.96

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary & Associates Inc

**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

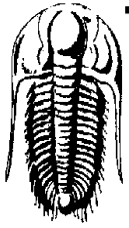
### Tool Information

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
<b>Total Tool Length:</b>	<b>113.00</b>				





**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 in <sup>3</sup>	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

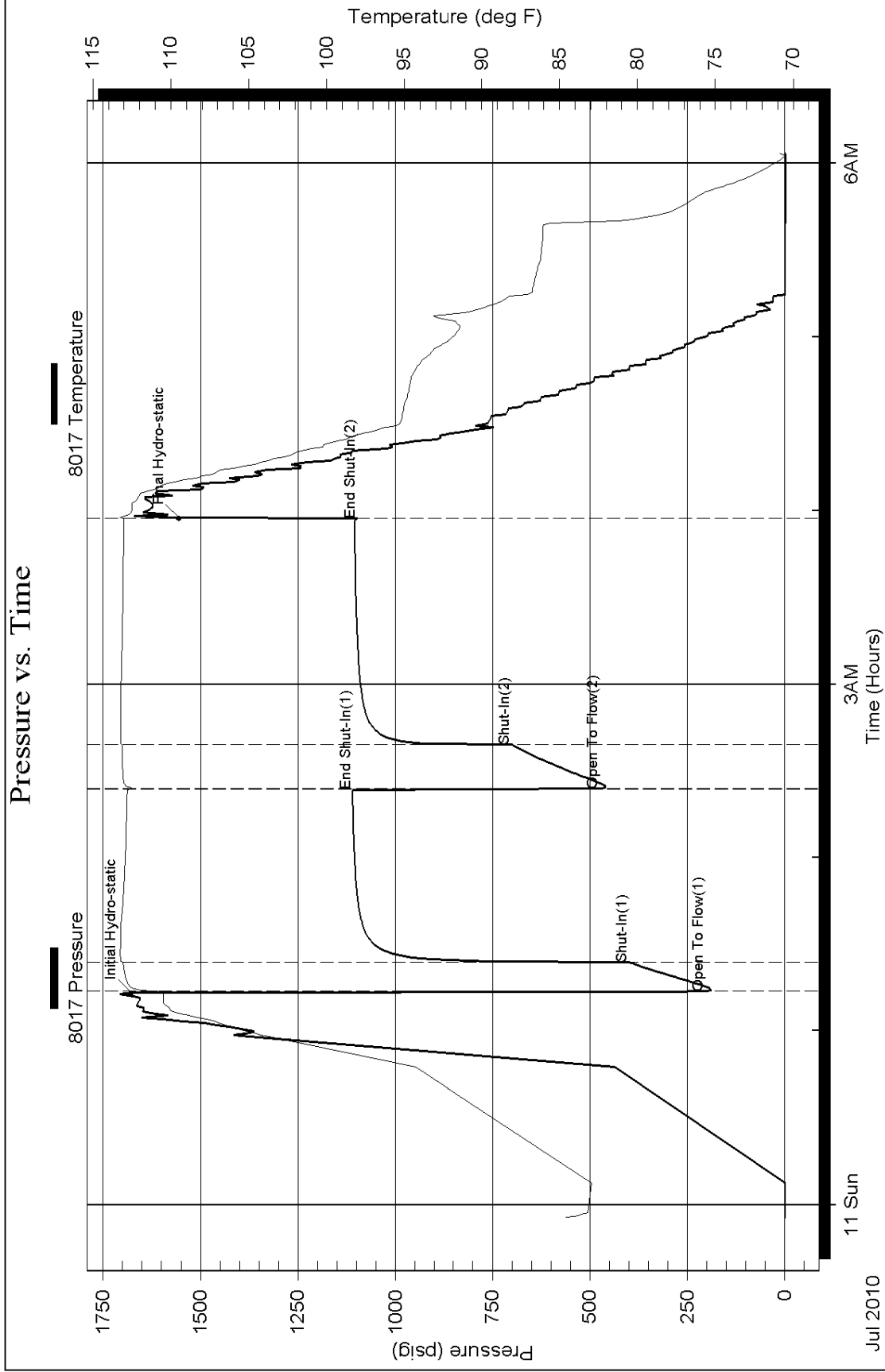
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

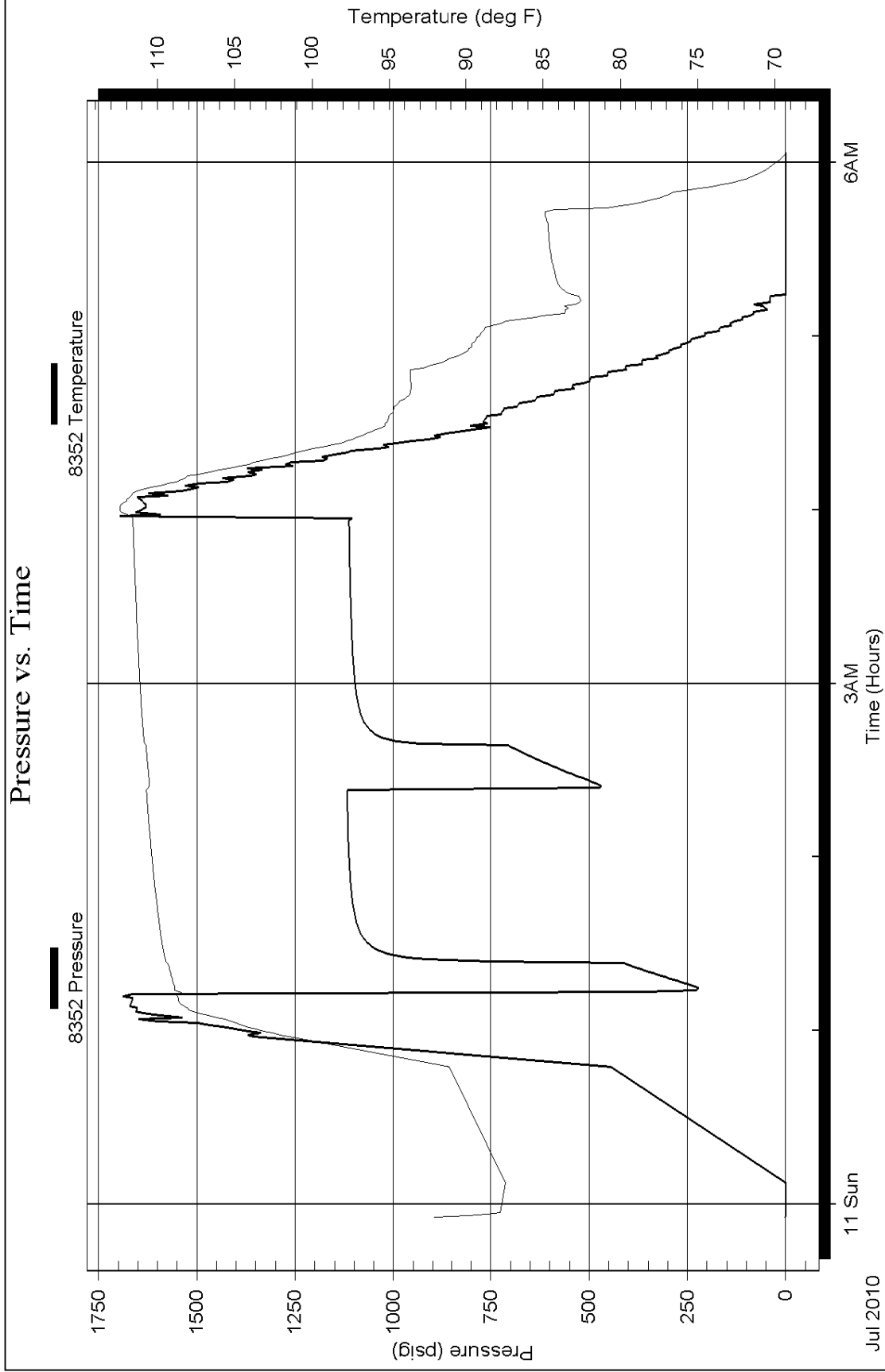


Serial #: 8352

Outside Samuel Gary & Associates Inc

3-16s-11w

DST Test Number: 2

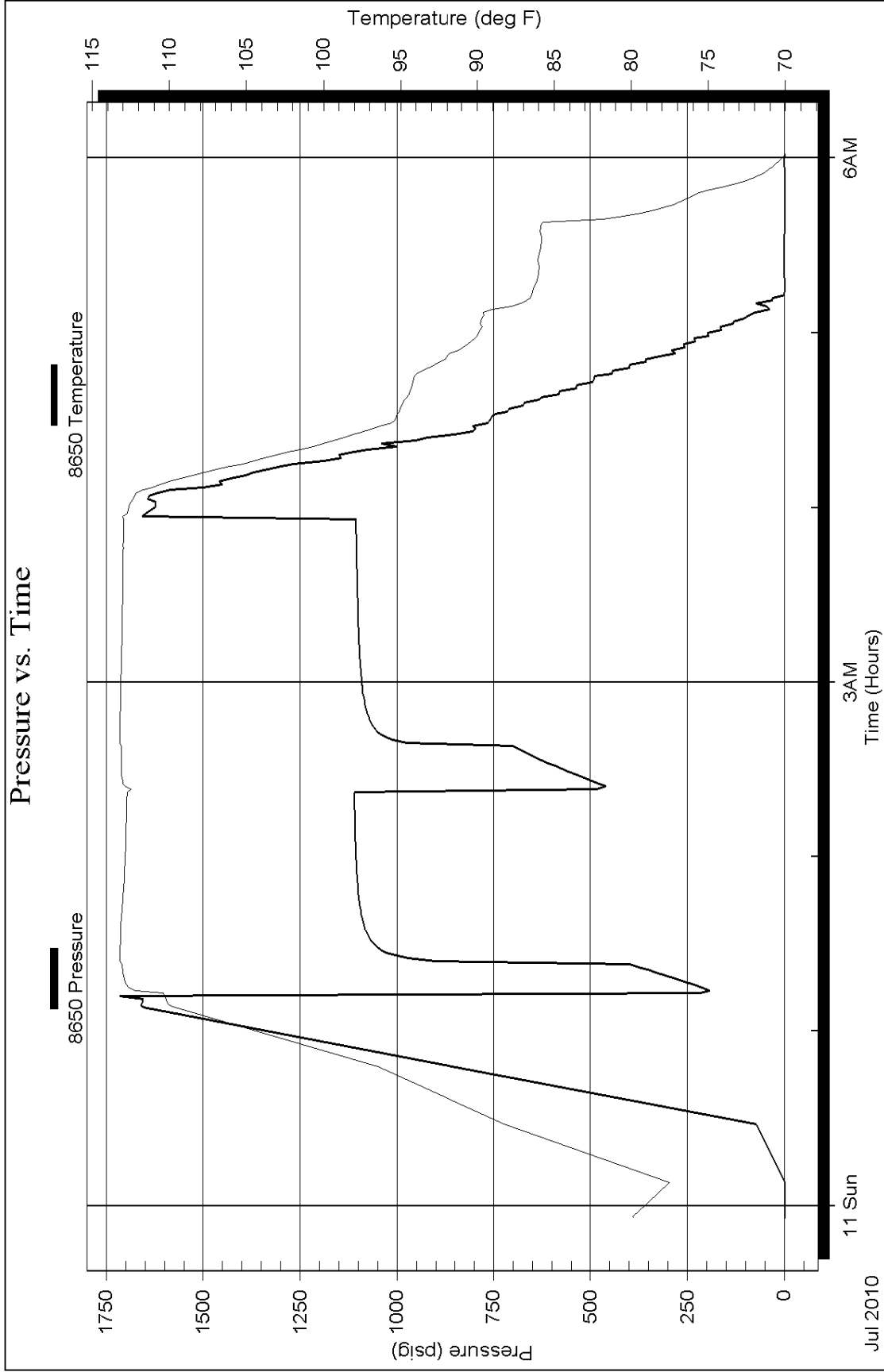


Serial #: 8650

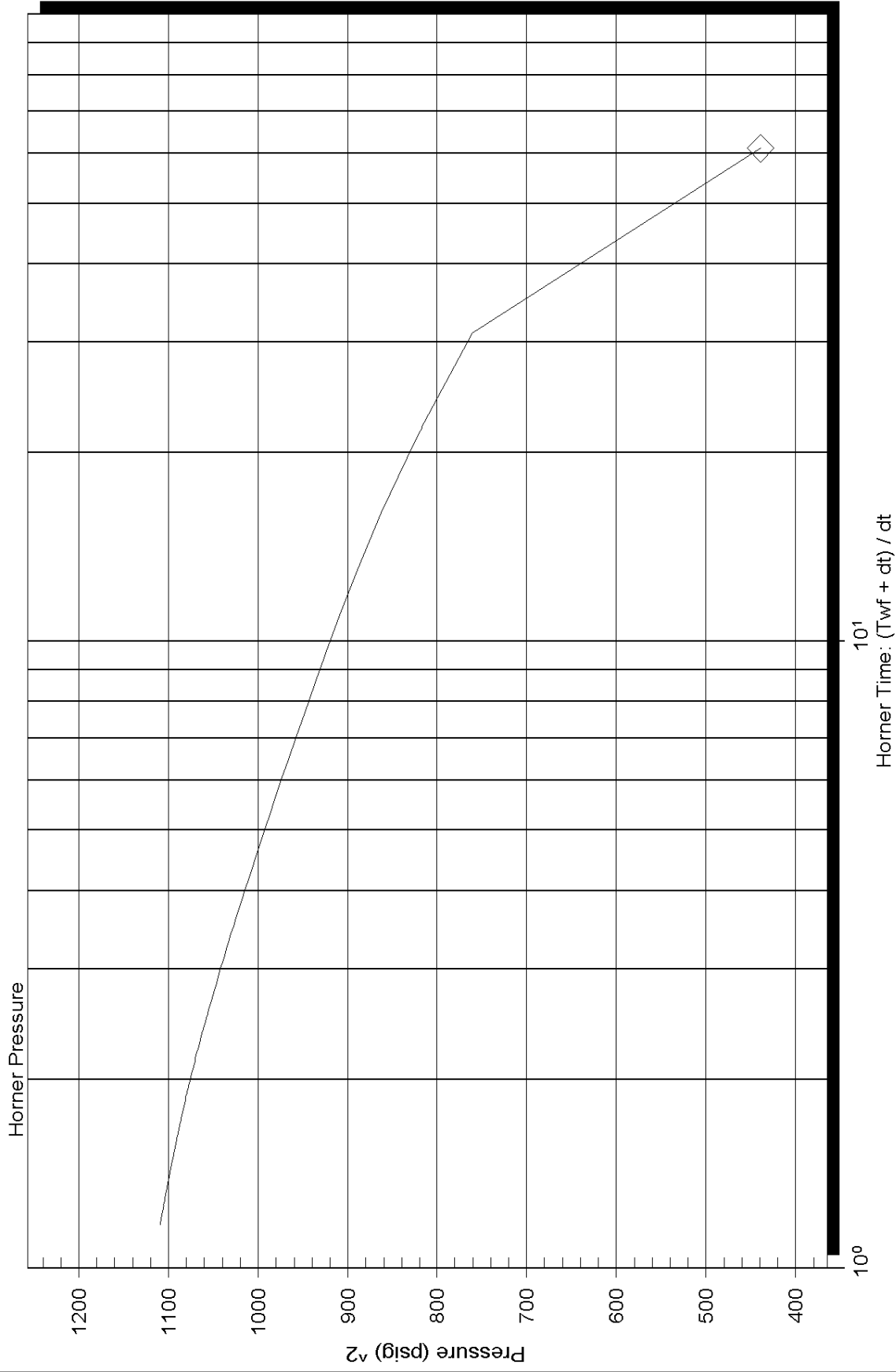
Outside Samuel Gary & Associates Inc

3-16s-11w

DST Test Number: 2



### Horner Plot



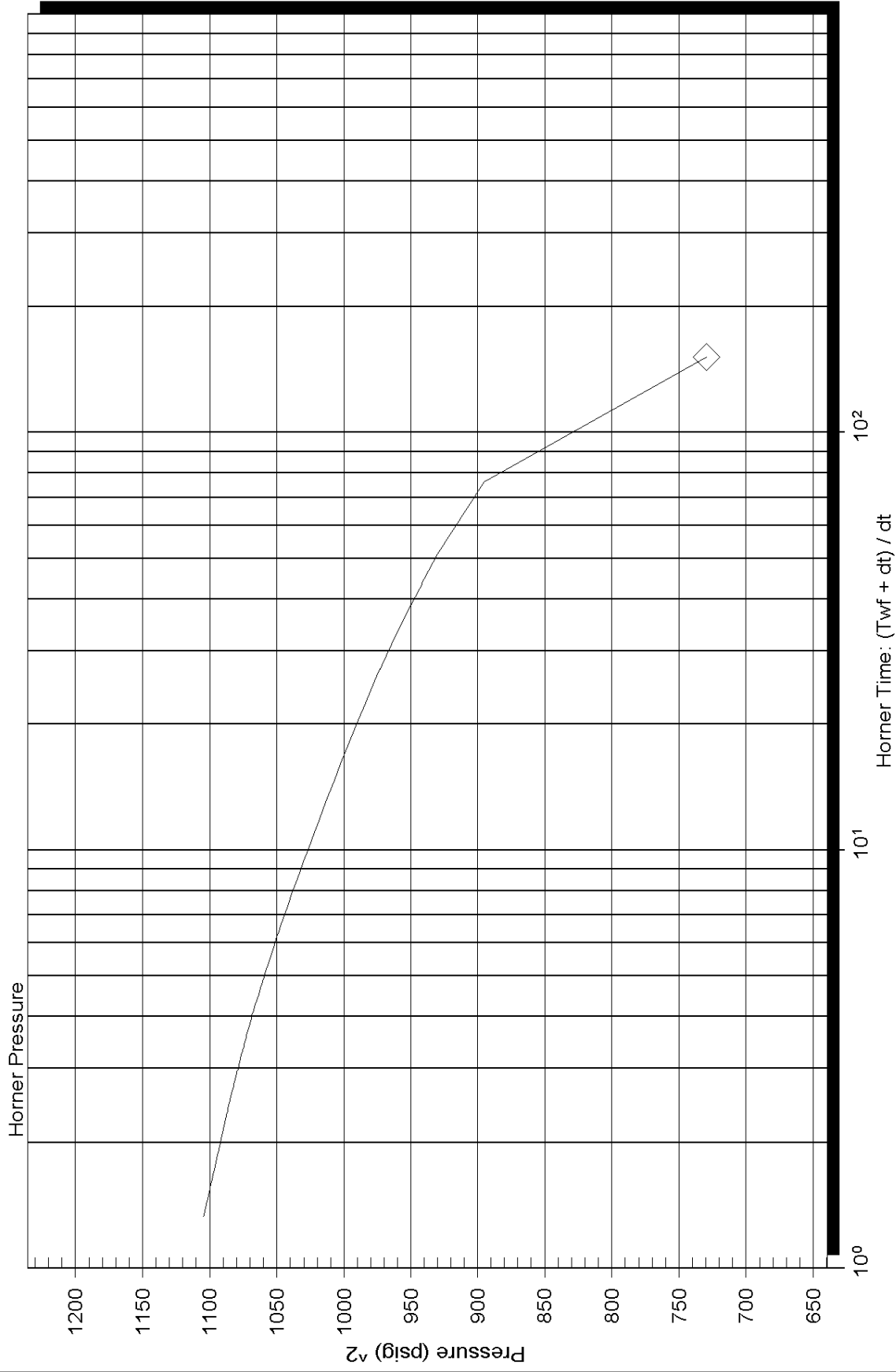
Serial Number: 8017 (Inside)

P\* : Slope (m) : kpa/log cycle

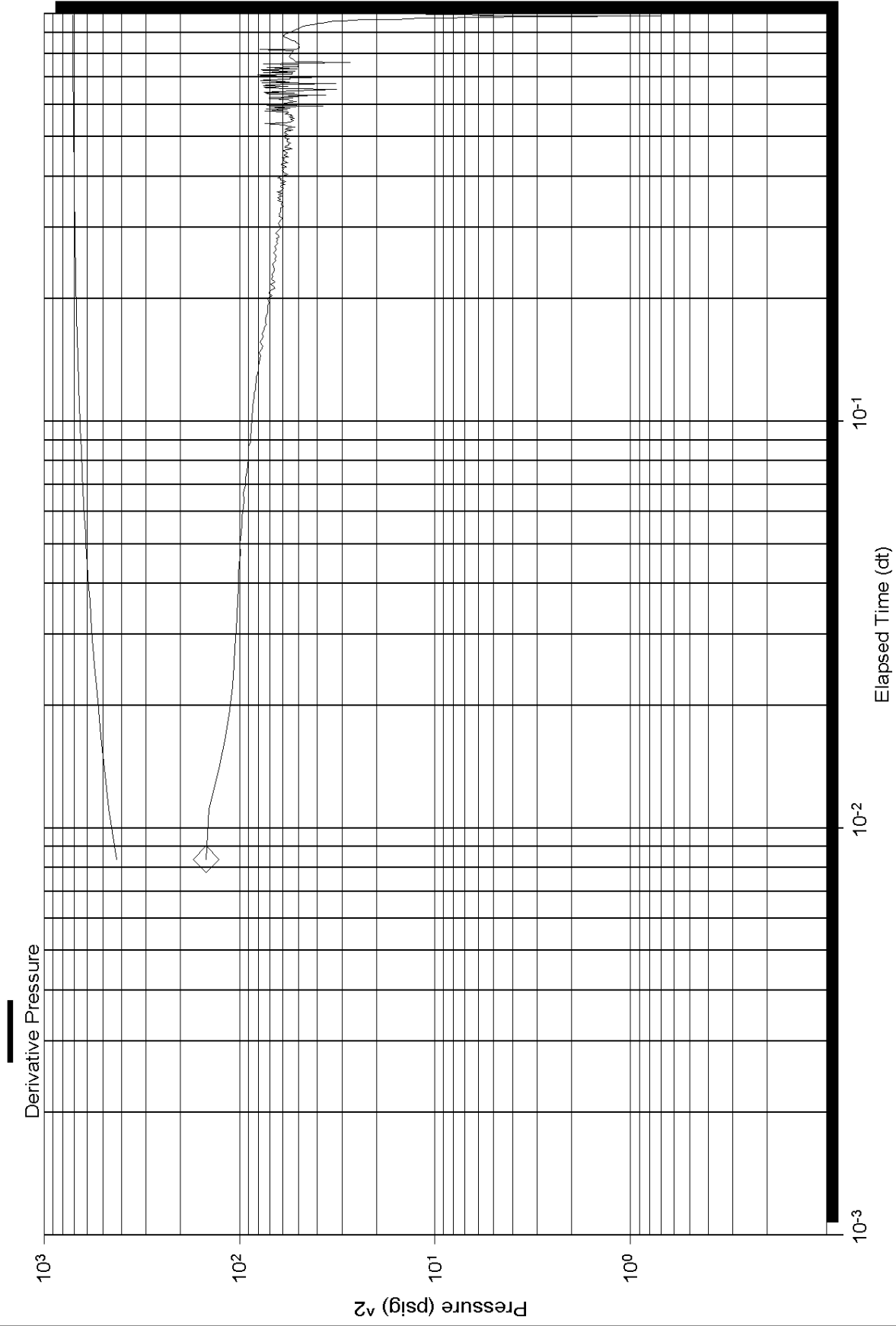
Horner Time: (Twf + dt) / dt

Flow Cycle: 1

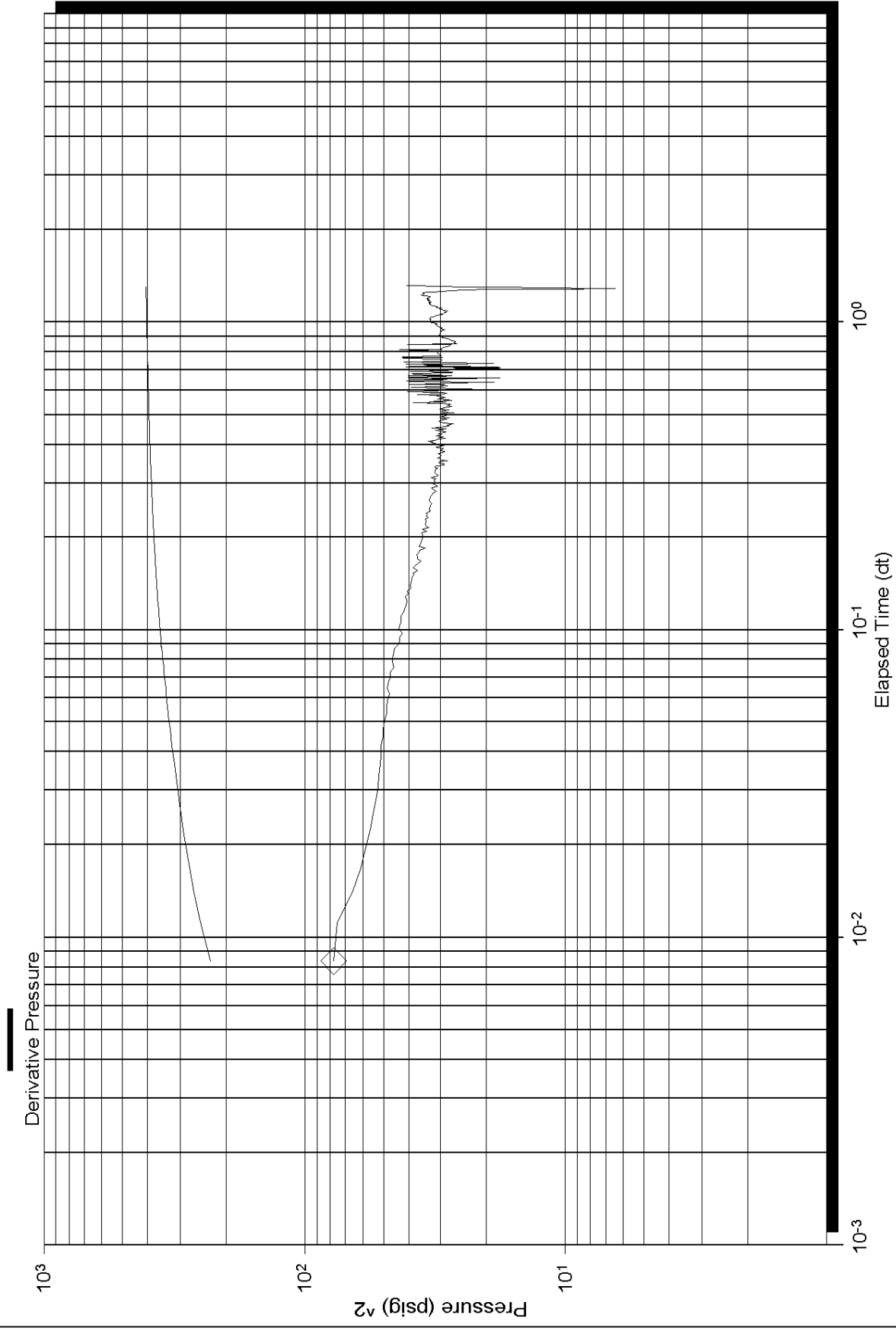
### Horner Plot



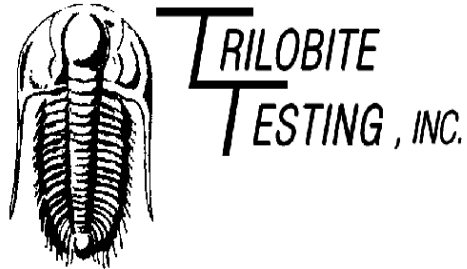
# Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Derivative







## DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1515 Wynkoop Ste. 700  
Denver, Co  
80202

ATTN: Tom Fertal

**3-16-11/Barton**

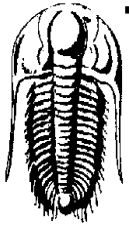
**T H Phillips 1-3**

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

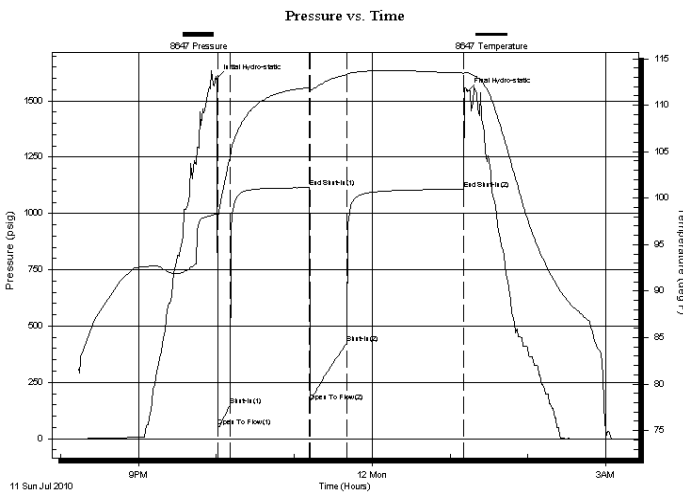
**T H Phillips 1-3**  
**3-16-11/Barton**  
Job Ticket: 38965 **DST#: 3**  
Test Start: 2010.07.11 @ 20:13:58

## GENERAL INFORMATION:

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

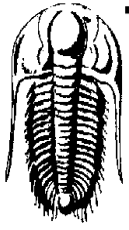
## Recovery

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	GMMCO 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)





**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

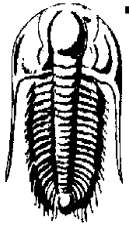
**T H Phillips 1-3**  
**3-16-11/Barton**  
Job Ticket: 38965      **DST#: 3**  
Test Start: 2010.07.11 @ 20:13:58

**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
<b>Total Tool Length:</b>	<b>117.00</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

## 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: bbl	
Water Loss: 9.15 in <sup>3</sup>	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:

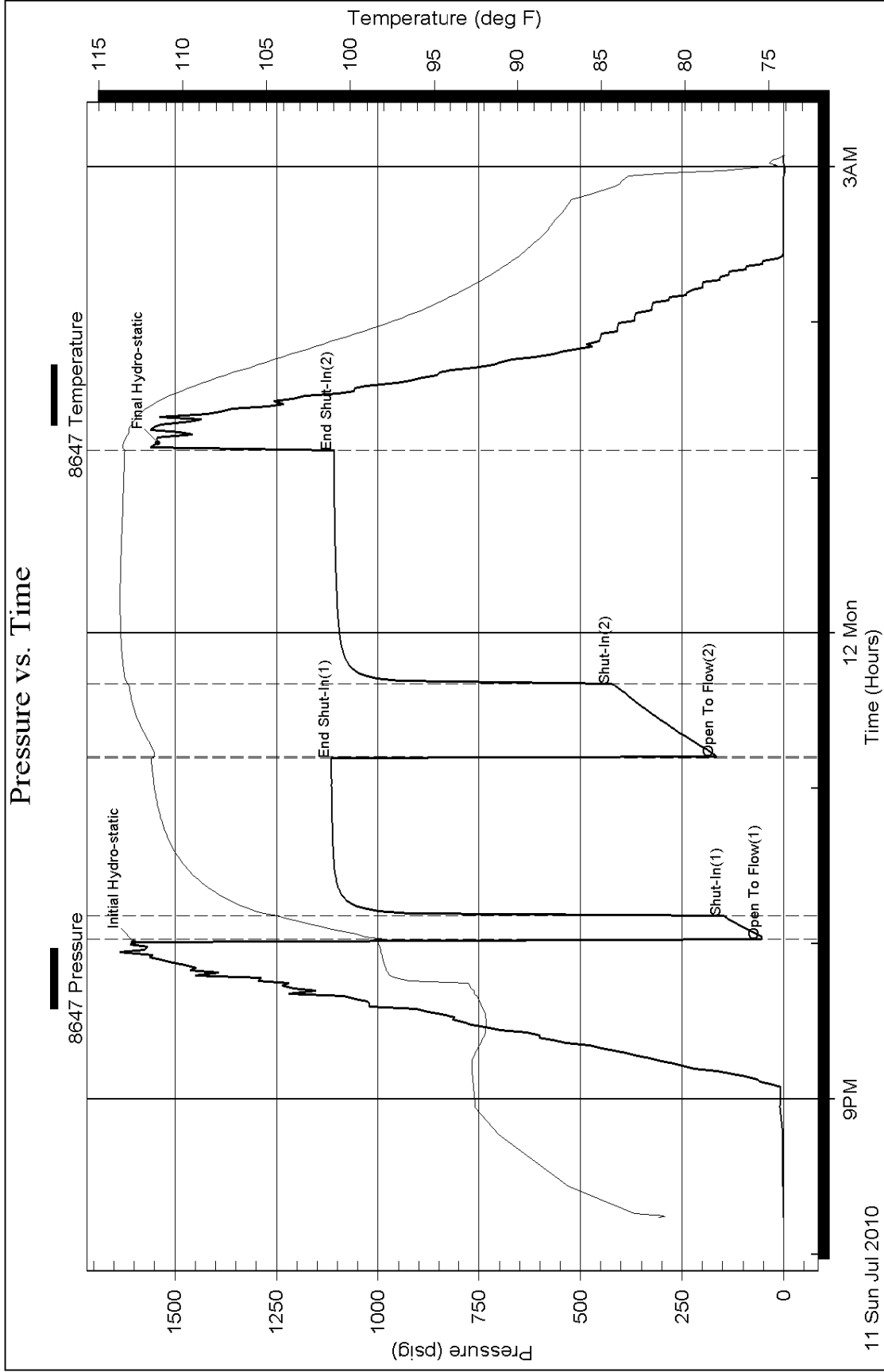
Serial #: 8647

Inside

Sam Gary

3-16-11/Barton

DST Test Number: 3

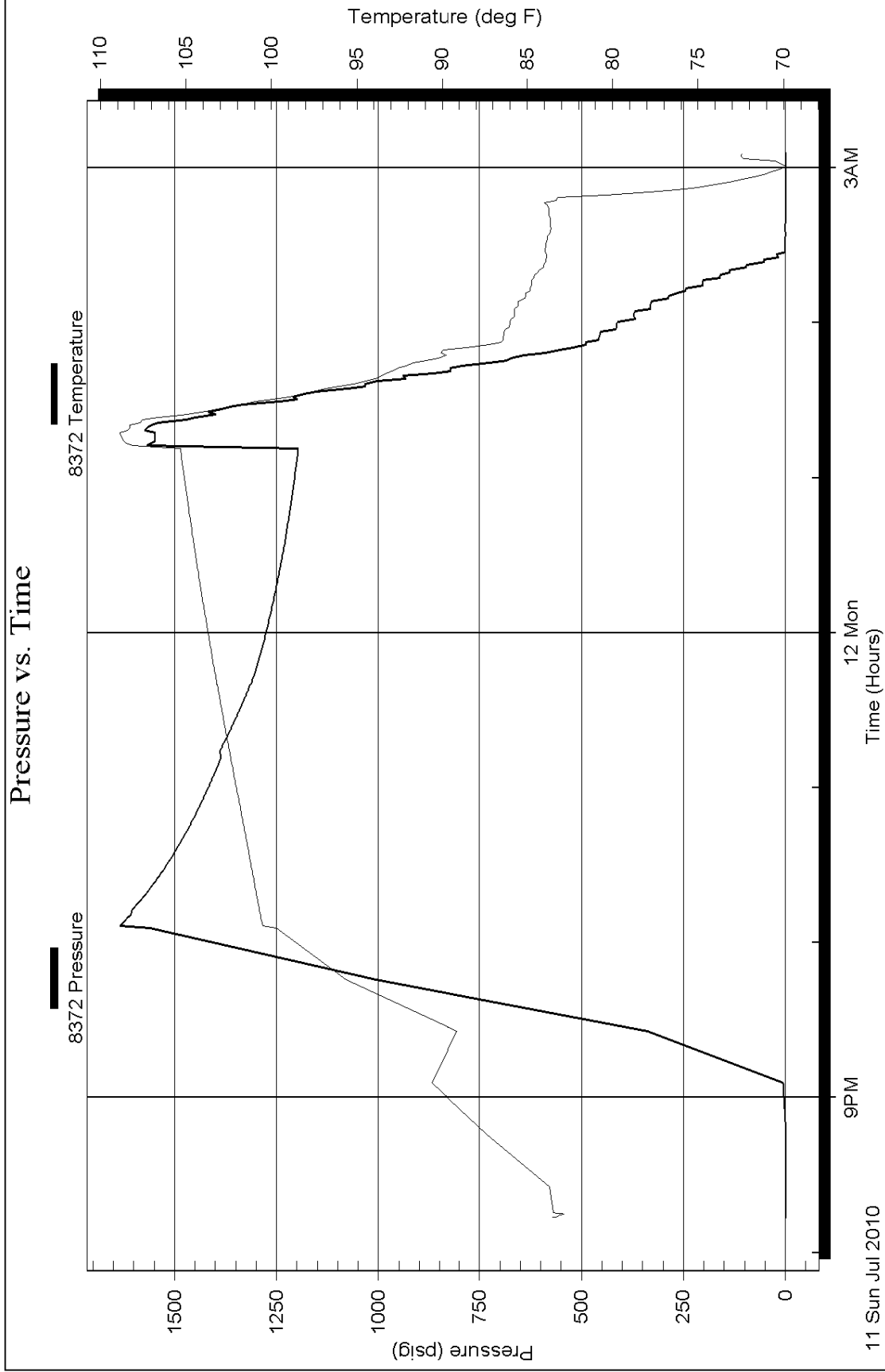


Serial #: 8372

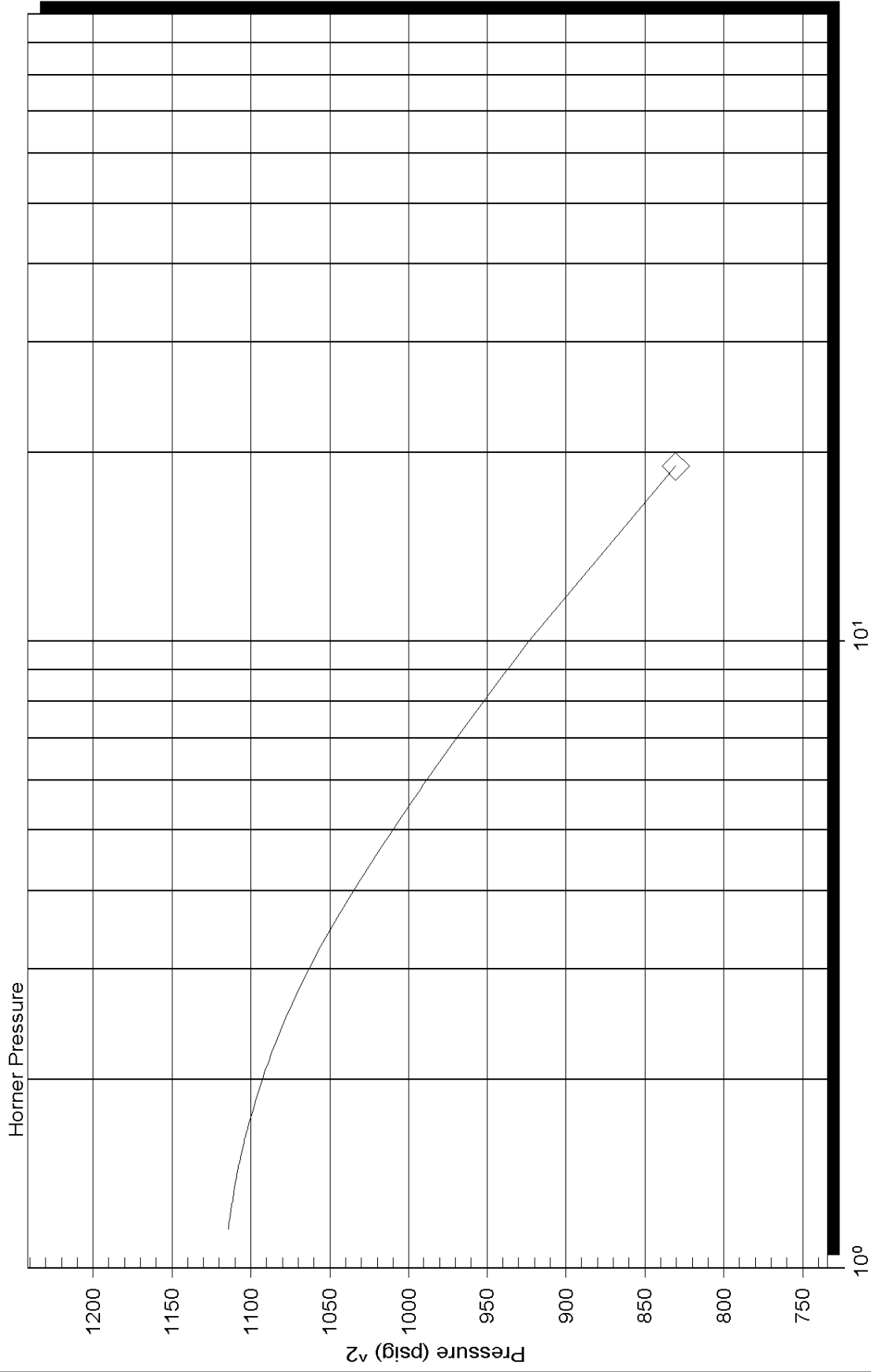
Below (Stratified)

3-16-11/Barton

DST Test Number: 3



# Horner Plot



Serial Number: 8647 (Inside)

Horner Time: (Twf + dt) / dt

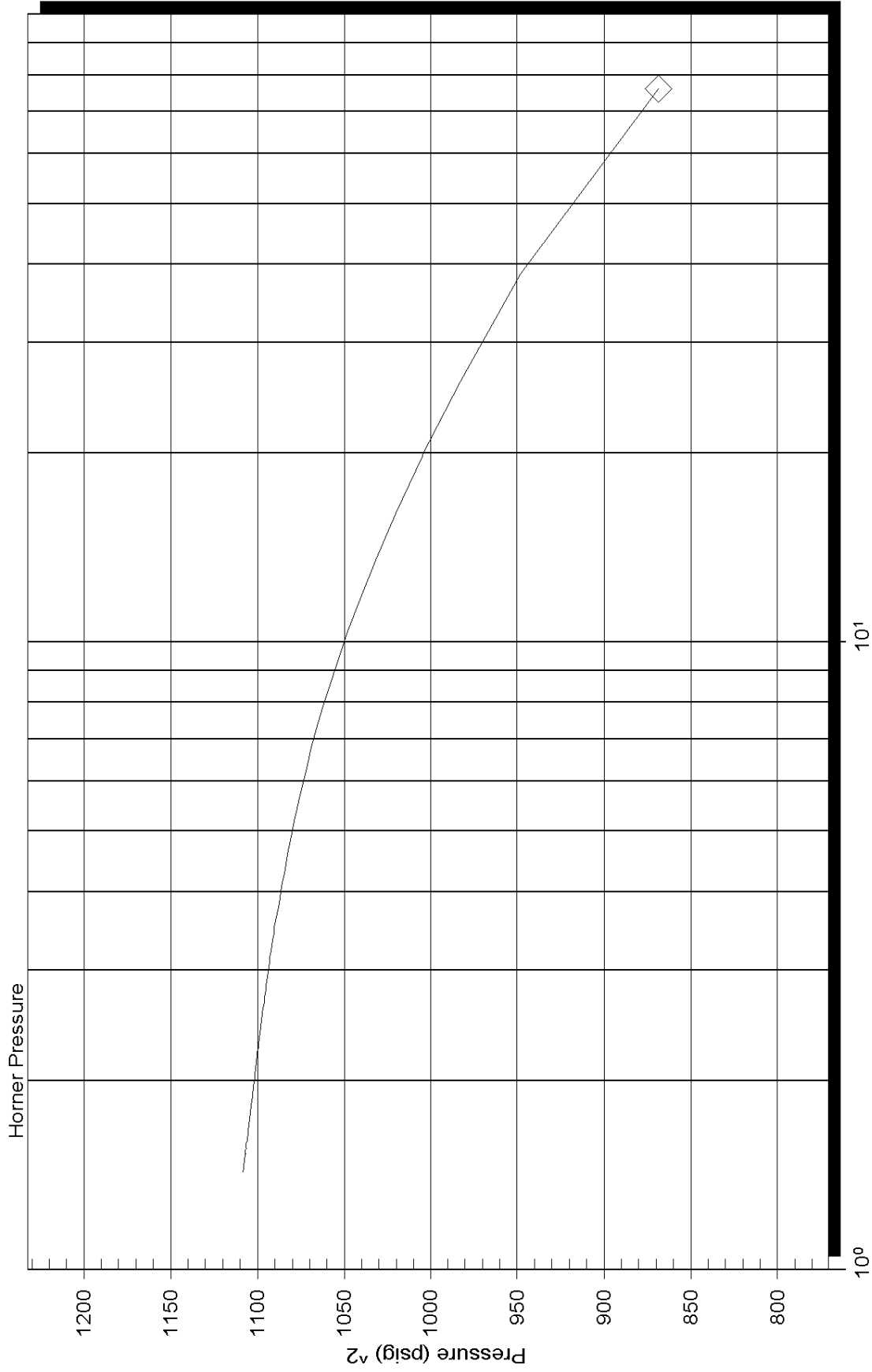
Slope (m) : kpa/log cycle

P\* :

Flow Cycle: 1



# Horner Plot



Serial Number: 8647 (Inside)

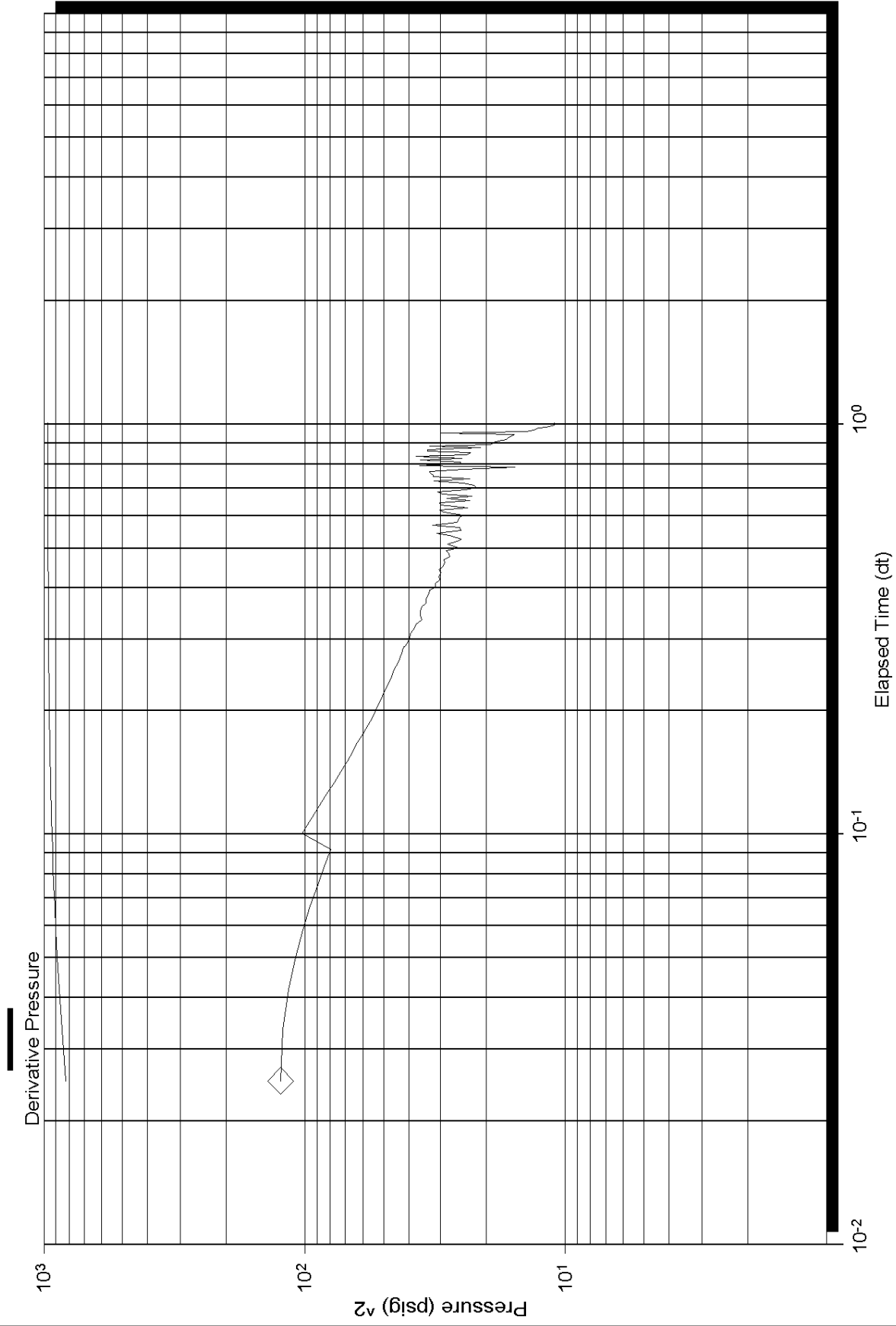
P\* :

Horner Time: (Twf + dt) / dt

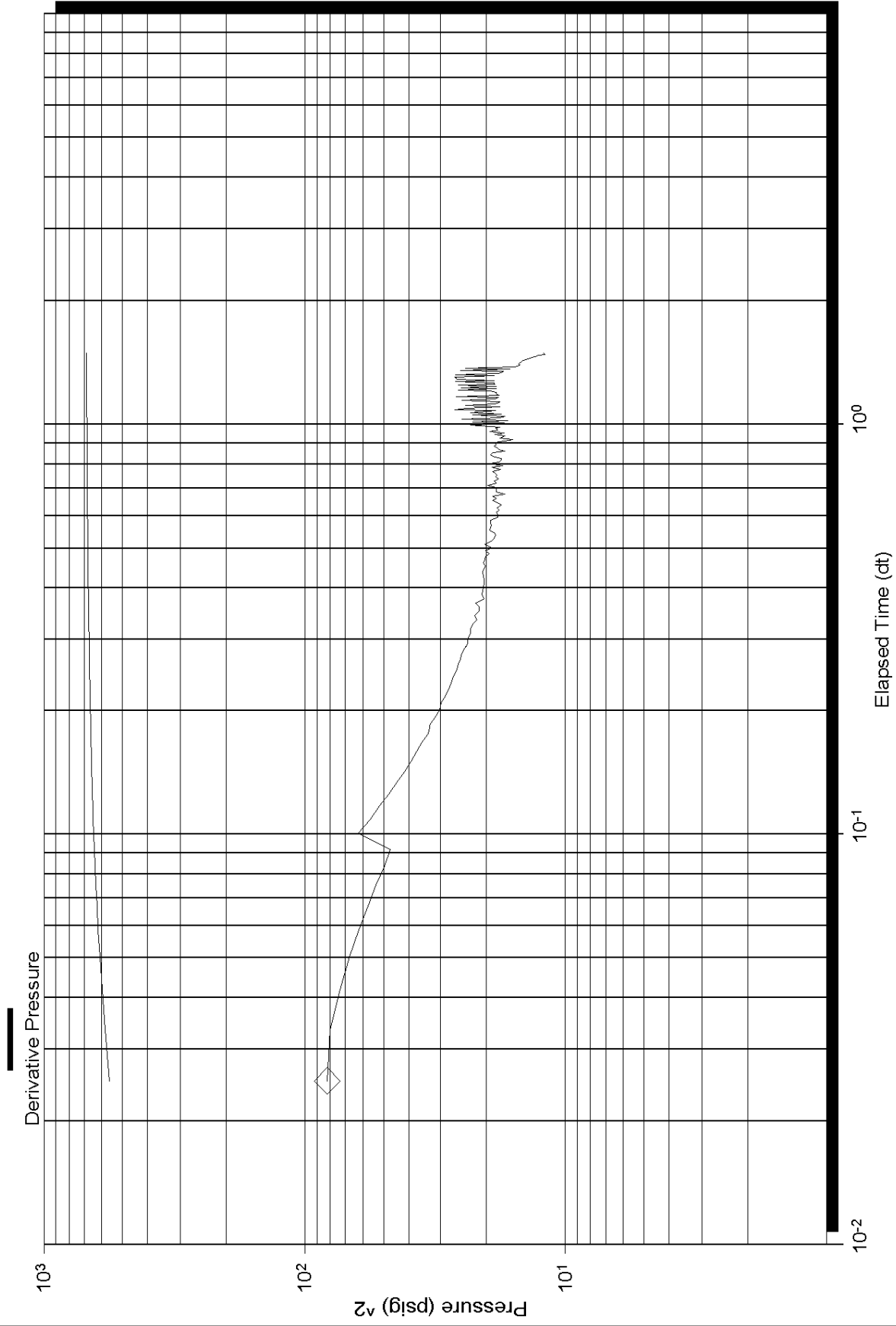
Slope (m) : kpa/log cycle

Flow Cycle: 2

# Log-Log and Pseudo-Log-Derivative



# Log-Log and Pseudo-Log-Derivative





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

KANSAS CORPORATION COMMISSION 1041608  
OIL & GAS CONSERVATION DIVISION

Form CP-4  
March 2009

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

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

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

API No. 15 - \_\_\_\_\_  
 Spot Description: \_\_\_\_\_  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
 \_\_\_\_\_ Feet from  North /  South Line of Section  
 \_\_\_\_\_ Feet from  East /  West Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
 County: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_  
 Date Well Completed: \_\_\_\_\_  
 The plugging proposal was approved on: \_\_\_\_\_ (Date)  
 by: \_\_\_\_\_ (KCC District Agent's Name)  
 Plugging Commenced: \_\_\_\_\_  
 Plugging Completed: \_\_\_\_\_

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

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

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

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

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

Submitted Electronically

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



**QUALITY OILWELL CEMENTING, INC.**

740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net  
 Pratt Location 620-388-5422

Date: 7/7/2010  
 Invoice # 4162

P.O.#:  
 Due Date: 8/7/2010  
 Division: Russell

# Invoice

**Contact:**

Samuel Gary Jr & Associates Inc  
 Address/Job Location:  
 Samuel Gary Jr & Associates Inc  
 P.O. BOX 448  
 RUSSELL KS 67665

**Reference:**

T.H.PHILLIPS 1-3

**Description of Work:**

SURFACE JOB

Services / Items Included:	Item	Quantity	Item	Quantity
	Surface Job	1		
	Pump Truck Mileage-from Job location to Nearest Camp	38		
	Premium Gel (Bentonite)	4		
	Common-Class A	200		
	Calcium Chloride	7		
	Bulk Truck Mileage-from Job location to Nearest Bulk Plant	38		
	Bulk Truck Material-Material Service Charge	200		

Quoted by: Dave Funk

SubTotal: \$ 4,079.57

Discount Available ONLY if Invoice is Paid &  
 Received within listed terms of invoice: \$ (611.94)

Total: \$ 3,467.64

Tax: \$ 110.05

**\$ 3,577.69**

**Applied Payments:**

**Balance Due: \$ 3,577.69**

**Invoice Terms:**

Net 30

**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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PAID  
 JUL 16 2010

DRLO  COMP  W/O  LOE  
 AFE # \_\_\_\_\_  
 ACCT # 8200.135  
 APPROVED BY [Signature]

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 4162

Cell 785-324-1041

Date	7-5-10	Sec.	3	Twp.	16	Range	11	County	Barton	State	KS	On Location		Finish	7:00 PM
------	--------	------	---	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Lease	TH Phillips	Well No.	<del>1-3</del> 1-3	Location	Wilson S to CL 15 2W 4 N
-------	-------------	----------	--------------------	----------	--------------------------

Contractor	Southwind Dr. Rig	Owner	or Beaver E to Clarin BT 3 N
------------	-------------------	-------	------------------------------

Type Job	Surface	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
----------	---------	--	--

Hole Size	12 1/4	T.D.	439	Charge To	Sam Gary Jr & Associates
-----------	--------	------	-----	-----------	--------------------------

Csg.	8 1/8	Depth	436	Street	
------	-------	-------	-----	--------	--

Tbg. Size		Depth		City		State	
-----------	--	-------	--	------	--	-------	--

Tool	15.25	Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
------	-------	-------	--	--	--	--

Cement Left in Csg.	10 1/2	Shoe Joint		Cement Amount Ordered	200 com 3% CO 2% gel
---------------------	--------	------------	--	-----------------------	----------------------

Meas Line		Displace	26.50		
-----------	--	----------	-------	--	--

**EQUIPMENT**

Pumptrk	5	No.	Cement Helper	Dave 2 1/2	Common	200
Bulktrk	3	No.	Driver	Rocky 2 1/2	Poz. Mix	
Bulktrk		No.	Driver		Gel.	4
			Driver		Calcium	7

**JOB SERVICES & REMARKS**

Remarks:	Hulls	
Rat Hole	Salt	
Mouse Hole	Flowseal	
Centralizers	Kol-Seal	
Baskets	Mud CLR 48	
D/V or Port Collar	CFL-117 or CD110 CAF 38	
	Sand	
	Handling	2 1/2
	Mileage	

*pumped 5 BBL H2O in front of cement*

*mixed 200H*

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	<i>swage Q</i>

Pumptrk Charge	Surface
Mileage	38

*Thanks*

*Frank Rowe*

Tax	
Discount	
Total Charge	

Signature



**QUALITY OILWELL CEMENTING, INC.**

740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net  
 Pratt Location 620-388-5422

Date: 7/19/2010  
 Invoice # 4084

P.O.#:  
 Due Date: 8/18/2010  
 Division:

# Invoice

**Contact:**

Samuel Gary Jr & Associates Inc  
**Address/Job Location:**  
 Samuel Gary Jr & Associates Inc  
 P.O. BOX 448  
 RUSSELL KS 67665

**Reference:**

T H PHILLIPS

**Description of Work:**

PLUG JOB

Services / Items Included:	Quantity	Price	Item	Quantity	Price
Distance from Job location to Nearest Camp	38	\$318.17			
Premium Gel (Bentonite)	8	\$122.03			
POZ Mix-Standard	76	\$327.56			
Plugging, the First Well Service	1	\$0.00			
Flo Seal	47	\$88.07			
Dry Hole Plug	1	\$52.47			
Common-Class A	114	\$1,249.71			
Distance from Job location to Nearest Bulk Plant	38	\$186.18			
Truck Material-Material Service Charge	198	\$332.23			
<b>Invoice Terms:</b>		Labor: \$785.92			

Quoted by: Dave Funk

SubTotal: \$ 3,784.05

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (567.61)

Total: \$ 3,216.44

Tax: \$ 243.40

**\$ 3,459.85**

**Applied Payments:**

**Balance Due: \$ 3,459.85**

**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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DRLG  COMP  W/O  LOE

AFE # \_\_\_\_\_

ACCT # \_\_\_\_\_

APPROVED BY \_\_\_\_\_

9200.134

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 4084

Date	7.12.2010	Sec.	3	Twp.	16	Range	11	County	Barton	State	Ks	On Location	Finish	12:45 PM
Lease	T.H. Phillips			Well No.	#1-3			Location	Clafin, Ks N on Blk top to Rig					
Contractor	Southwind #1							Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job	Plug							Charge To	Sam Gary					
Hole Size	7 7/8"							T.D.	3420'					
Csg.								Depth						
Tbg. Size	D.P. 4 1/2"							Depth	3282'					
Tool								Street						
Cement Left in Csg.								City	State					
Meas Line								Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.					
								Displace	1120 / mmd					
								Cement Amount Ordered	190 sx 60/40 4% Gel 1/4# F.S. P <sub>3</sub> x					

**EQUIPMENT**

Pumptrk	9	No.	Cement	100	Helper	100	4 1/2"	Common	114
Bulktrk	3	No.	Driver	Rocky	4 1/2"	Pos. Mix	76		
Bulktrk	pick up	No.	Driver	Rick	4 1/2"	Gel.	8		

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal 470's
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
	CFL-117 or CD110 CAF 38
	Sand
3282' - 25sx 60/40 4% Gel 1/4# F.S.	Handling 190
725' - 25sx 60/40 4% Gel 1/4# F.S.	Mileage 38

**FLOAT EQUIPMENT**

475' - 100sx 60/40 4% Gel 1/4# F.S.	Guide Shoe
40' - 10sx 60/40 4% Gel 1/4# F.S.	Centralizer
Rat hole - 30sx 60/40 4% Gel 1/4# F.S.	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	1 - Dry hole plug 8 3/4"
	Pumptrk Charge plug
	Mileage 38

Cement all Circulate

Signature Frank Rene

Tax	
Discount	
Total Charge	





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

Well Name: T.H. PHILIPS 1-3  
Location: Sec 3 16s 11w, Barton, Kansas  
License Number: 15-009-25442-00-00  
Spud Date: 7/ 05/2010  
Surface Coordinates: 1340' Fnl & 420' Fwl  
Region: Davidson  
Drilling Completed: 7/10/10  
Bottom Hole Coordinates:  
Ground Elevation (ft): 1858' K.B. Elevation (ft): 1868'  
Logged Interval (ft): 2500' To: 3420' Total Depth (ft): 3420'  
Formation:  
Type of Drilling Fluid:

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

#### OPERATOR

Company: Sam Gary Jr. & Assoc.  
Address: 1515 Wynkoop, # 700  
Denver, Colo. 80202  
Geologist: Tom Fertal

#### GEOLOGIST

Name: Tim Hedrick  
Company: Earth Tech OGL, Inc.  
Address: PO Box 683  
Hooker, Okla . 73945  
Off. 888-543-8378 Cell: 620-655-2050

#### GEN. INFO. Report

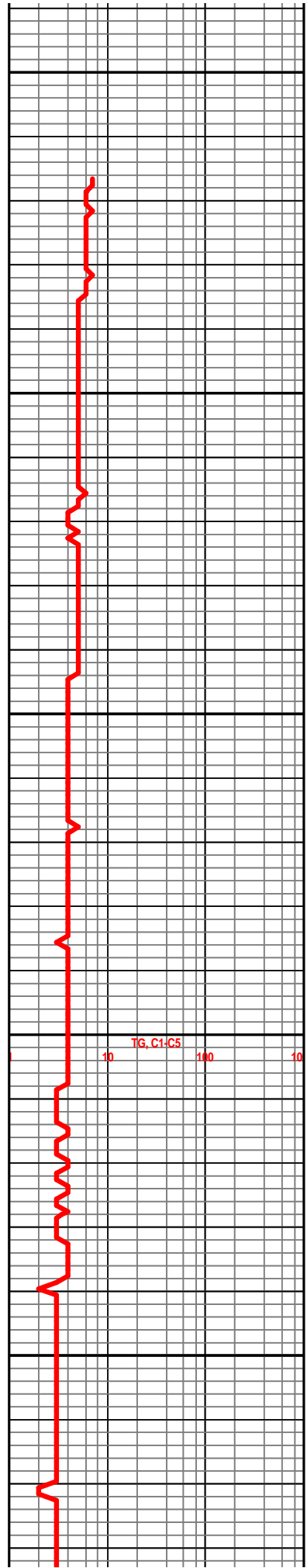
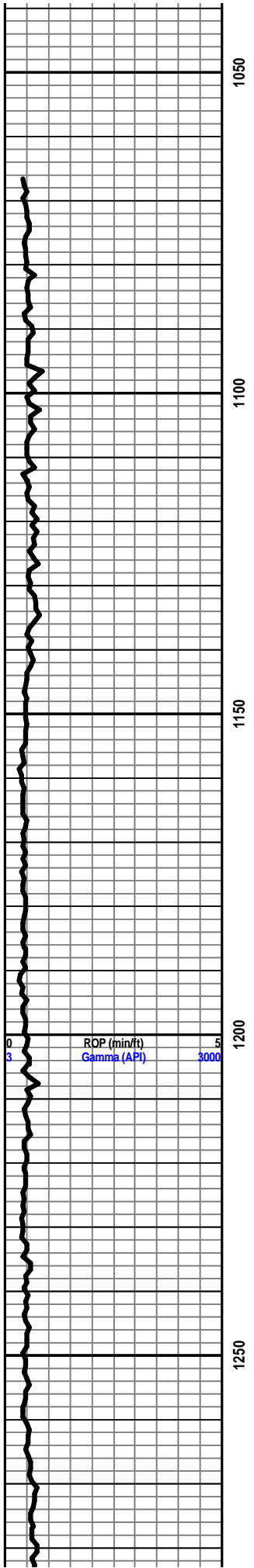
SHORT TRIP TO SURFACE CASING WAS VERY TIGHT FROM 2000' TO 1400', HAD LOTS OF FILL ON BOTTOM . DRILL OUT ONE JOINT.

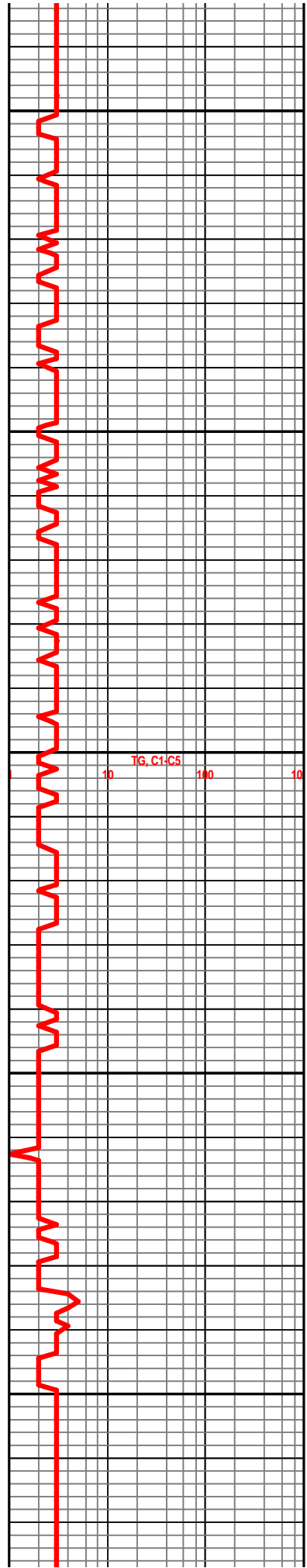
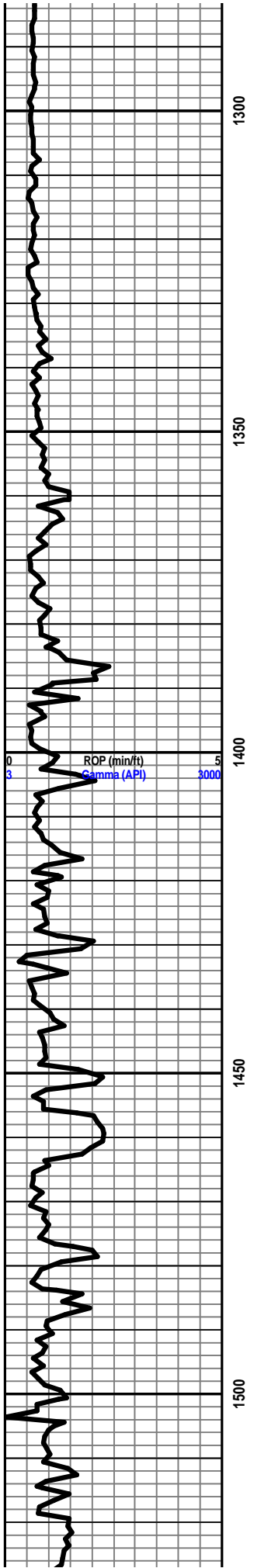
#### DST information

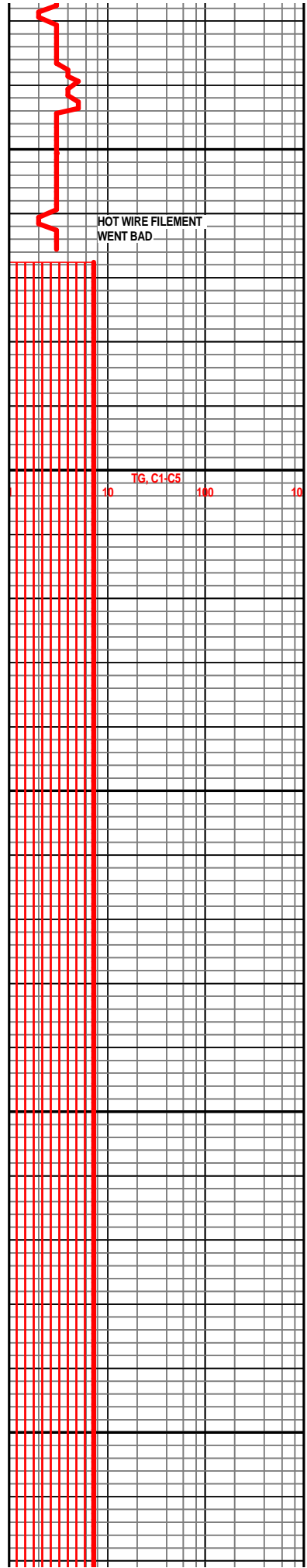
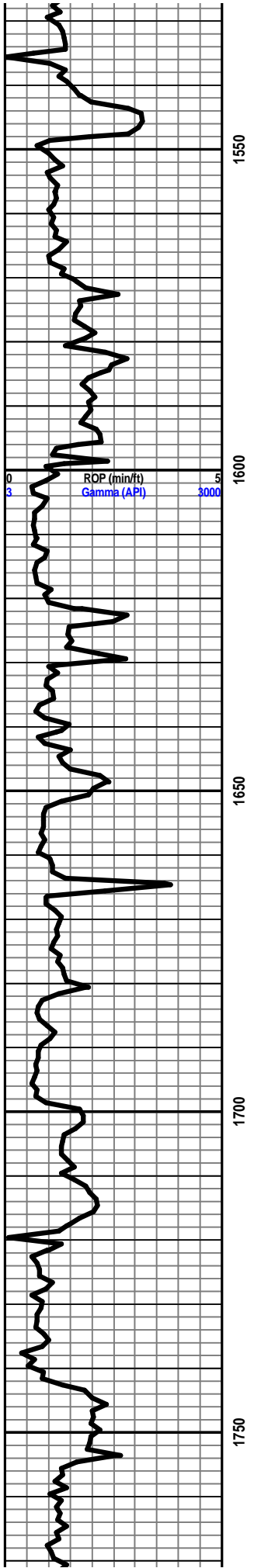
DST#1 2985 TO 3030 20-60-15-60  
IF-WK BLO 1/4" BLO/ ISI- NO BLO/FF- NO BLO/ FSI- NO BLO  
IH-1442 FH 1435/IF- 16 TO 17 FF-19 TO 18/ ISI- 809 FSI 706/  
RECOVERED- 5' DRILL MUD W/ FILM OF OIL  
BHT 104 DEG

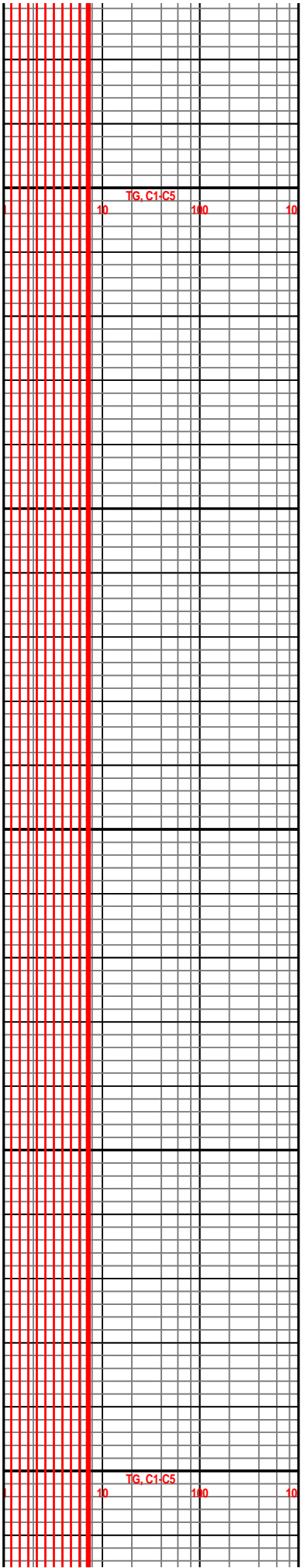
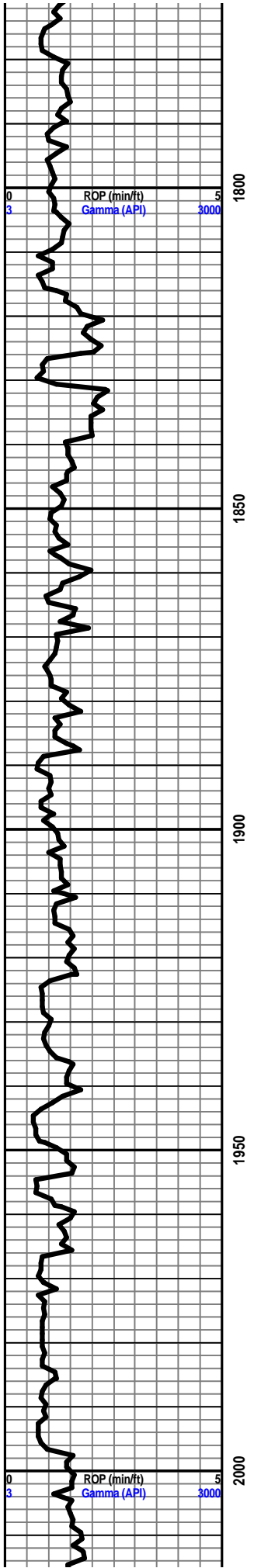
DST#2 3337 TO 3349 10-60-15-75  
IF-BOB 30 SEC/ ISI-NO BLO/FF-BOB 1` MIN./NO BLO  
IH-1677 FH-1555/IF- 204 TO 399 FF-473 TO 699' ISI-1109 FSI-1098  
RECOVERED-1529' TOTAL FLUID. 10' FREE OIL/ 31' VSOCM 2% O., 98%M./992' SOCW-5%O.,95%W.,/ 496'  
WATER  
BHT- 113 DEG./21000 CHL./ PIT CHL-5000

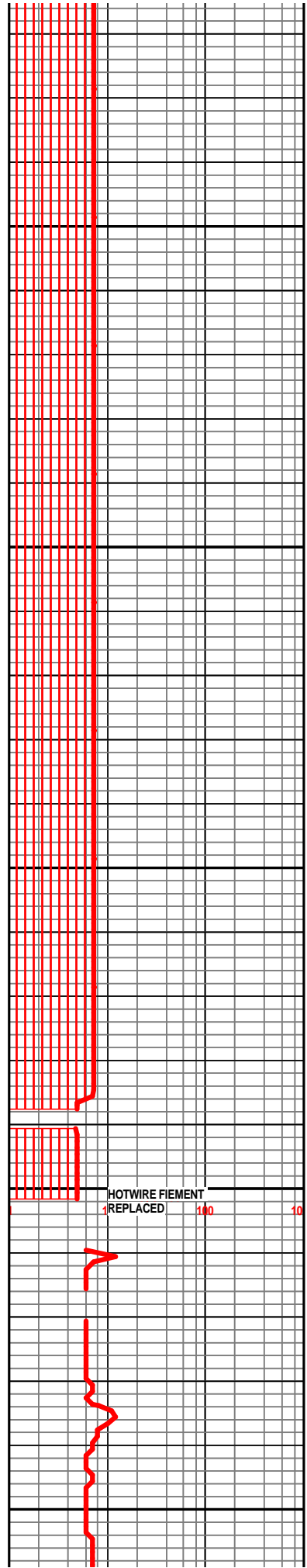
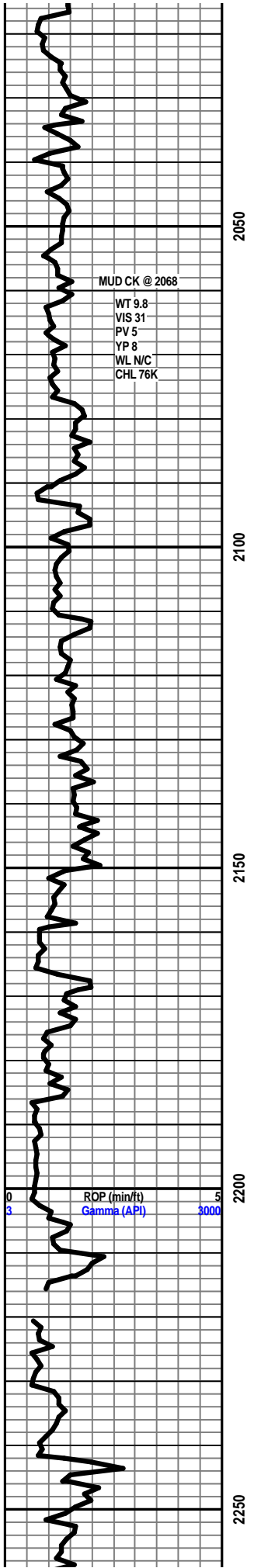


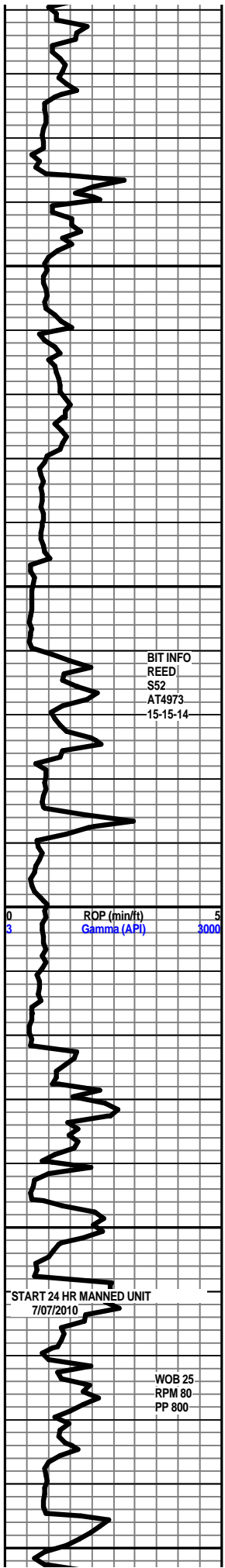












2300

2350

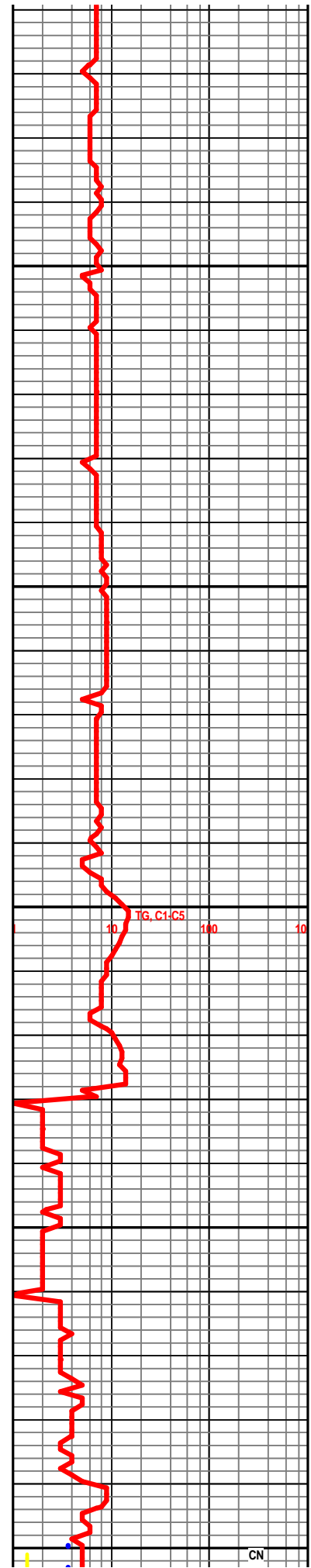
2400

2450

2500

Elmont 2421' - 553'

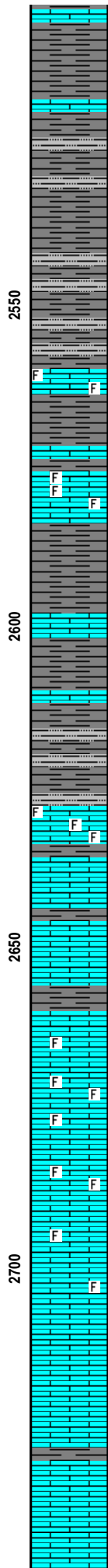
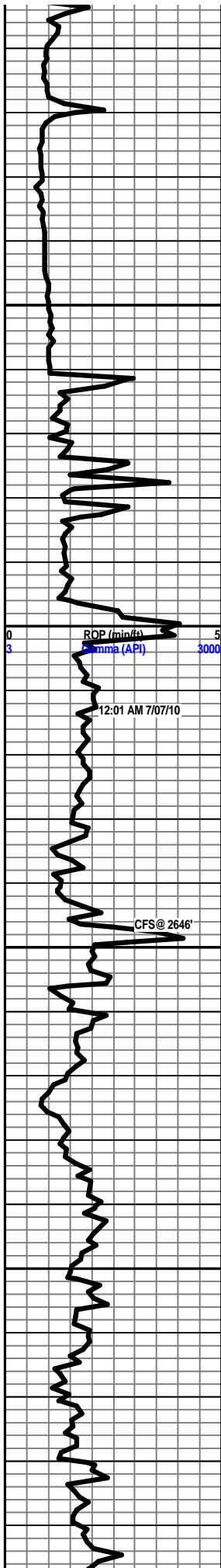
DISPLACE @ 2460'



LS- OFF WHT CRM LT GY- HD DNS TO BRITT, MD-F-XLN,  
 RE-YI NIP S ME IMRDK GY SHIP NO FLO NO VIS POP

CN





NO VIS SHOW

SH- LT TO MD GY- FRM BLKY MICA , SLI CALC IP

SH- LT TO MD GY- FRM BLKY IP TO V/ SFT GRNY TXT IP, SLI SLTY LOOKING LSTER

SH- LT TO MD GY- FRM IP TO V. SFT SLTY IP, HVY TR V/V-F-GRN S-ANG TO S-RND QURTZ GRNS IMBD IP, NO FLO, NO VIS POR , NO VIS SHOW

**HOWARD 2561' - 693'**

LS- OFF WHT CRM- HD DNS TO BRITT, MD-F-XLN, RE-XLN, FOSS IMBD IP, TR IMBD LT GY SH IP, LT BRIT YEL MIN FLO, NO VIS POR TO TR MICRO PP POR IP, NO VIS SHOW

LS- LT TN TN- HD DNS , MD-F-XLN , SLI RE-XLN IP, V/ FOSS , SMLL CALC XLS IMBD IP, V/ DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS- DK TN TO MD GY- HD DNS V/F-CRYPTO-XLN, S-LITHO IP IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

**SEVERY 2613' - 745'**

SH-LT TO MD GY- FRM IP TO V/SFT SLTY LOOKING SLI TR SLTST IP

**TOPEKA 2627' - 759'**

LS- TN LT TN BRN- HD DNS MD-FXLN. V/ RE-XLN, V/ FOSS, IMBD CALC XLS IP, NO FLO, NO VIS POR, NO VIS SHOW

● LS- CRM LT TN TN ( DUE TO STN IN 30%), HD V/ BRITT, V/ SUCRO MTRX, SLI S-CHLKY IP, BRIT YEL GLD FLO THRU, DLL YEL GLD FLO THRU, FR TO GD VIS MICRO PP POR IN 30%, NO POR IN 70%, V/GD FLSH CUT IN 30%, EXCEL SLO STRM CUT IN 30%, NO ODOR, LT TN LCH ON DISH

SH- LT GY TO GY- FM BLKY SMTH TXT , SLI CALC

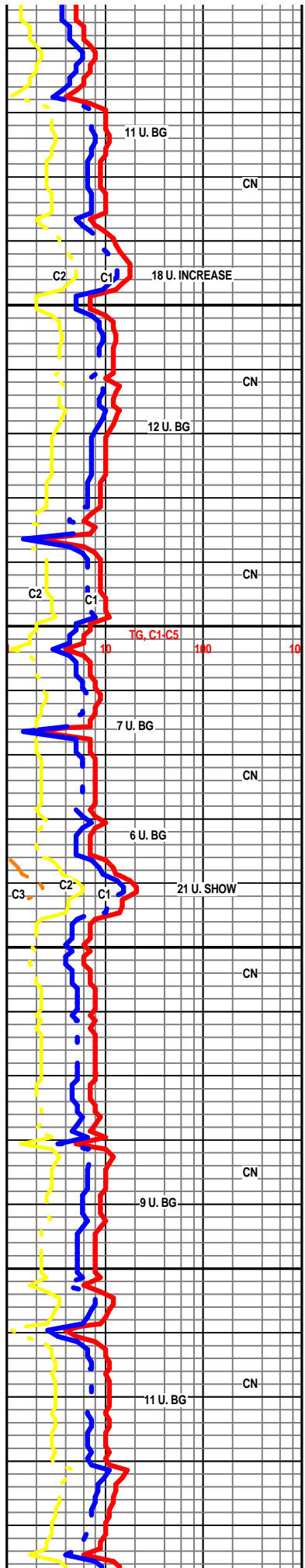
LS- CRM BFF- HD DNS TO BRITT, MD-F-XLN, V-RE-XLN MTRX, V/ FOSS, TR FREE FOSS IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

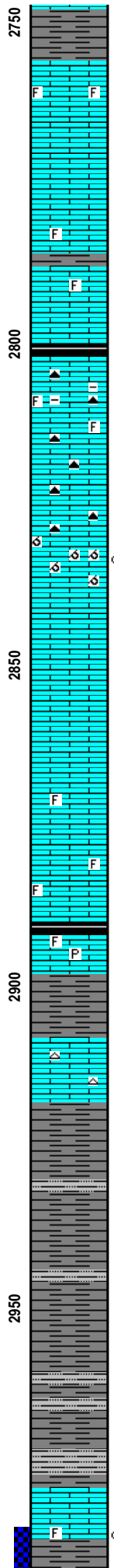
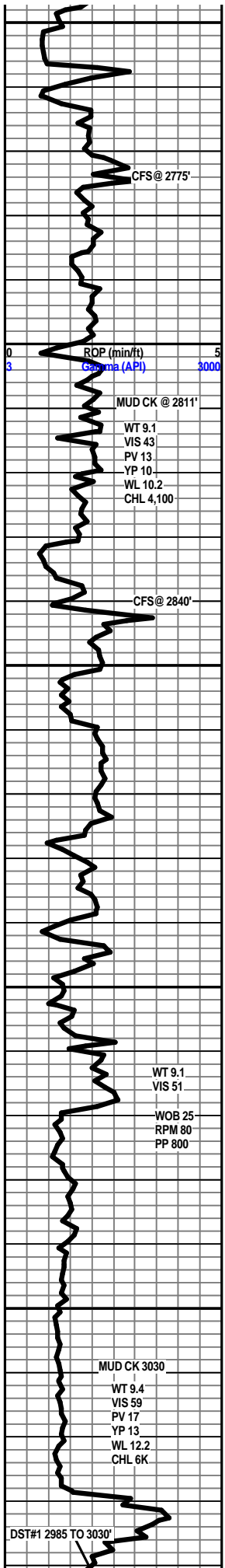
LS- CRM LT TN - HD DNS TR BRITT, MD-F-XLN, RE-XLN MTRX. ABDT IMBD FOSS FRGS THRU, DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM TN GY- HD DNS MOTT, MD-F-XLN, RE-XLN MTRX, IMBD FOSS FRGS, TR FREE FOSS, NO FLO TO LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM BFF- HD TO BRITT, MD-XLN, RE-XLN MTRX, ABDT IMBD MD CALC XLS THRU, HVY TR SFT WHT CHLK IMBD IP, NO FLO, PR VIS INTER-XLN POR, NO VIS CUT OR SHOW

LS- LT TN TN LT BRN- HD DNS F-V-F-XLN, MD-XLN IP W/ TR IMBD FOSS FRGS IP, TR EMBED CALC XLS IP, NO FLO, NO VIS POR, NO VIS SHOW





**LeCOMPTON 2757' - 889'**

LS- CRM LT TN TN- HD DNS TO BRITT, MD-XLN ,RE-XLN MTRX, ABTD EMBED FOSS FRGS THRU, ABTD EMBED SMLL TO MD CALC XLS IP, TR FREE FOSS,TR MICRO OOL IP, TR FREE MD CALC XLS .DLL YEL FLO IP TO BRIT YEL GLD FLO IN 10%, PR TO FR VIS INTER-FOSS POR, SCAT PR TO FR MICRO VUG POR IP, NO VIS CUT OR SHOW

LS- CRM LT TN TN- HD DNS , TR BRITT, V/ TT SUCRO MTRX, SCAT FOSS FRGS EMBED THRU, SLI TR CALC XLS EMBED, NO FLO, NO VIS POR, NO VIS SHOW

**SH- BLK SFT CARB**

LS- CRM LT TN TN- HD DNS TO BRITT, MD-XLN TO TT SUCRO MTRX, TR FOSS FRGS EMBED, TR EMBED DK GY SH IP , HVY TR WTHRD TN GY MOTT CHRT, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TN- HD DNS TR BRITT, V/ TT SUCRO MTRX MD-XLN IP, ABTD GY BLK CHRT, NO FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM BFF LT BRN ( DUE TO STN IN 20-30%) HD BRITT, MD-F-XLN, RE-XLN, V/ MICRO OOLMLD,S-CHLKY IP,HVY OIL STN IN 30%, S-CHLKY TO CHLKY IP, NO FLO, GD VIS OOLMLD TO FR SCAT MICRO VUG POR IP, GD FL SH CUT TO EXCEL SLO STREAM CUT IN ABOUT 50-60%., STRNG OIL ODOR, SULPHR ODOR IN 45 MIN SMPLE

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

LS-CRM LT TN TN- HD DNS TO BRITT, MD-F-XLN , SUCRO IP, TR-RE-XLN, TR FOSS FRGS, TR SMLL CALC XLS IMBD IP, NO FLO, NO VIS POR, NO VIS SHOW

**HEEBNER 2889' - 1121'**

**SH- BLK SFT CARB**

LS- OFF WHT WHT- HD DNS F-V-F-XLN, RE-XLN, FOSS FRGS IMBD IP, HVY TR PYR EMBED IP, LT YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW

SH- LT GY LT GRN- FRM BLKY SMTN TXT

LS- OFF WHT WHT CRM- HD DNS F-V-F-XLN , RE-XLN, FOSS FRGS IP, TR WHT TRNSLCNT CHRT, NO FLO, NO VIS POR, NO VIS SHOW

**DOUGLAS 2918' - 1050'**

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

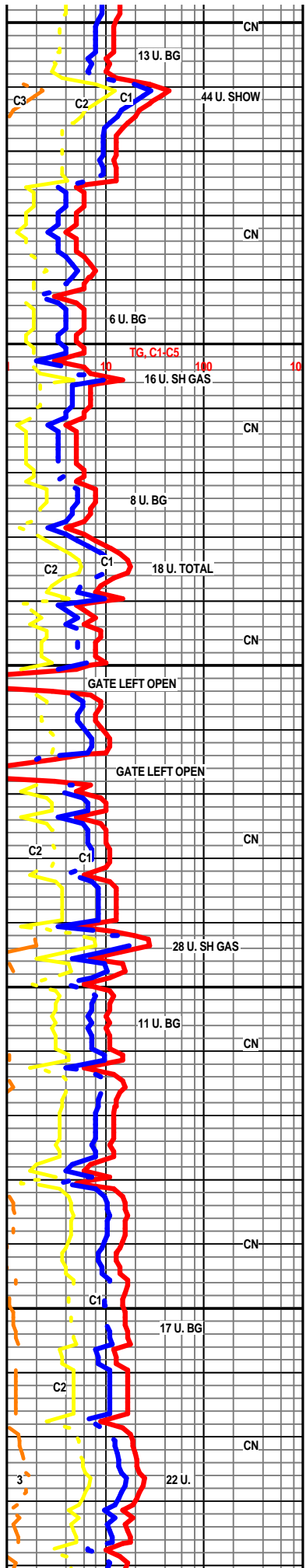
SH- LT GY GY- FRM BLKY ,SMTH TXT TO V/ SLTY LOOKING TXT IP

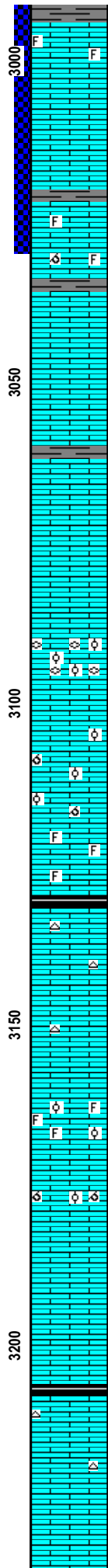
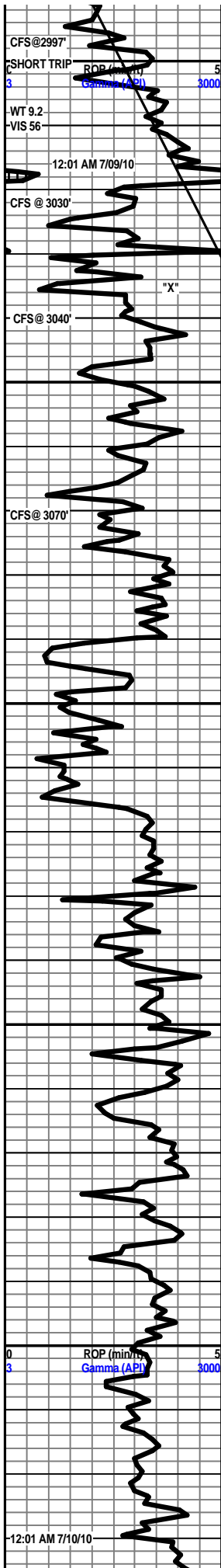
SH- PRED A/AB- LT GY GY- FRM IP TO V/ SFT SLTY LOOKING TO V/ SF GMMY TXT IP

**BR. LIME 2978' - 1110'**

LS- DK TN TO BRN- HD DNS V/ TT SUCRO MTRX TO V/F-XLN IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN BRN- HD DNS V/ TT SUCRO MTRX, F-XLN IP, TR FOSS FRGS SCAT THRU,BRN OIL STN ON SURFCE,TR SCAT BRIT YEL FLO, NO VIS POR, GD FL SH CUT TO GD SLO STREAM CUT IP, NO ODOR(1 ROCK)  
SH- RED GRN- V/ SFT GMMY TXT





### LANSING 2994' - 1126'

LS- OFF WHT CRM TN- MD HD TO SFT WHT GMMY CHLK GRDNG TO HD DNS F-V/F-XLN, TR FOSS FRGS IMBD IP, NO FLO, NO VIS POR, NO VIS HOW

3003' LS- CRM BFF LTN TN- HD TO BRITT (SPTTD TN OLN STN IN 20%) MD-F-XLN, RE-XLN MTRX V/ MICRO OOLMLD, FOSS FRGS SCAT IP, TR MICRO OOL IP, SLI S-CHLKY IP, BRIT YEL GLD FLO IN 20%, DLL YEL GLD FLO IN 60%, FR TO GD VIS MICRO OOL MOLD POR THRU, HVY TR GD INTEROOL POR IP HVY TR INTERXLN FOSS POR IP, PR MICRO VUG POR IP, LT OIL ODORLT FLSH CUT TO FR TO TR GOOD SLO STREAM CUT IN 30-40%

3024 TO 3031' LS- CRM TN BRN (DUE TO STN IN 60%) HD V/ BRITT, MD-XLN, V/ RE-XLN MTRX, TR FOSS FRGS IP, ABDT IMBD SMLL CALC XLS THRU, BRIT YEL GLD FLO IN 70%, FR TO GD VIS MICRO VUG POR, PR TO FR VIS INTER-XLN POR, TR FR MICRO PP POR IP, OIL STN IN VUGS, FR OIL ODOR, FR FLSH CUT TO GD SLO STRM CUT IN 50-60%,

3031 TO 3034' LS- CRM TN BRN (OIL STN IN 40%) HD DTO V/ BRITT, MD-XLN RE-XLN MTRX, MICRO OOLMLD TO V/ MICRO VUG, TR SMLL IMBD OOL AND TR FREE OOL, SMLL TO MD CALC XLS IMBD, GRDNG TO OFF WHT CRM HD BRITT, MD-F-XLN, V/ OOLMLD, NO STN, TR IMBD SMLL OOL AND CALC XLS THRU, GD OIL ODOR, NO FLO, PR TO FR OOLMLD POR, TR PR MICRO VUG POR, NO FLSH CUT, PR TO FR SLO STREAM CUT IN 30%

3047 TO 3058- LS- OFF WHT CRM V/ SUCRO S-CHLKY MTRX, TR FOSS FRGS IP, TR SFT WHT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- LT GY- FRM IP TO V/ SFT GMMY

3067' LS- OFF WHT CRM- HD DNS TO BRITT IP, V-F-XLN GRDNG TO SUCRO S-CHLKY MTRX, TR SFT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW

3074 TO 3076' LS- OFF WHT CRM LT TN (DUE TO LT STN SCAT THRU) HD TO BRITT, MD-XLN, V/ RE-XLN MTRX, ABDT IMBD FOSS THRU, TR V/ SMLL CALC XLS IMBD IP, LT TN OIL STN N VUGS, DLL YEL GLS FLO THRU, BRIT YEL GLD SCAT FLO IN 50%, PR TO FR SCAT INTER-FOSS POR, PR SCAT MICROVUG POR, LT OIL ODOR, NO FLSH CUT TO VV/PR SLO STREAM CUT.

LS-OFF WHT CRM BFF- HD TO V/ BRITT, MD-F-XLN, V/RE-XLN MTRX, V/ MICRO OOLMLD TO MICRO OOL, CHLKY OOL, SMALL CALC XLS IMBD IP, NO FLO, PR TO FR TO GD SCAT OOLMLD POR, SLI TR PR VUD POR, NO VIS CUT OR SHOW

LS- OFF WHT TO WHT CRM- HD V/ BRITT, MD-XLN RE-XLN MTRX IP, ABDT IMBD SMLL TO MD CALC XLS THRU, TR S-CHLKY IP, TR SCAT MICROOL IP, TR MICRO VUG POR SCAT IP, NO FLO, PR VIS MICRO VUG POR, SLI TR OOLMLD POR IP, NO VIS SHOW

LS- CRM BFF LT TN- HD DNS F-V/F-XLN, RE-XLN MTRX, FOSS FRGS EMBD THRU, NO FLO, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB

LS- OFF WHT WHT CRM BFF- HD DNS TO BRITT IP, F-V/F-XLN TO SUCRO IP SLI TR S-CHLKY TO TR CHLKY, TR WHT CHRT IP, NO FLO NO VIS POR, NO VIS SHOW

3161 TO 3164' LS- OFF WHT CRM LT TN - HD DNS TO BRITT, MD-FXLN RE-XLN MTRX IP TO SUCRO TXT IP, TR SCAT SMLL IMBD CALC XLS IP, TR FOSS FRGS IP, SLI TR MICRO OOL, NO FLO IN 80% TO BRIT YEL GLD FLO IN 20%, PR TO FR VIS INTER-XLN FOSS POR, TR PR TO TR FR MICRO VUG POR, NO FLUSH CUT TO PR TO FR SLO STRM CUT

LS-OFF WHT WHT- HD TO BRITT, MD-F-XLN, RE-XLN TRX, V/ MICRO OOLMLD IP, TO SLI MICRO OOL IP, SMLL CALC XLS IN VUGS, TR SFT WHT CHLK IMBD IP, GD VIS MICROVUG TO PR SCAT MICRO OOLMLD POR, NO VIS SHOW

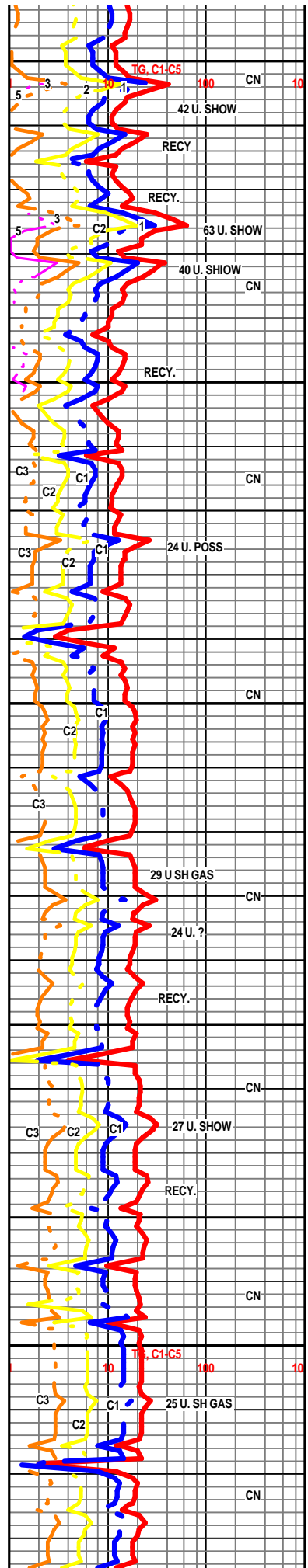
LS- CRM BFF- HD DNS TO BRITT, F-V/F-XLN RE-XLN MTRX IP, TR S-SUCRO IP, SLI TR S-CHLKY, NO FLO, NO VIS POR, NO VIS SHOW

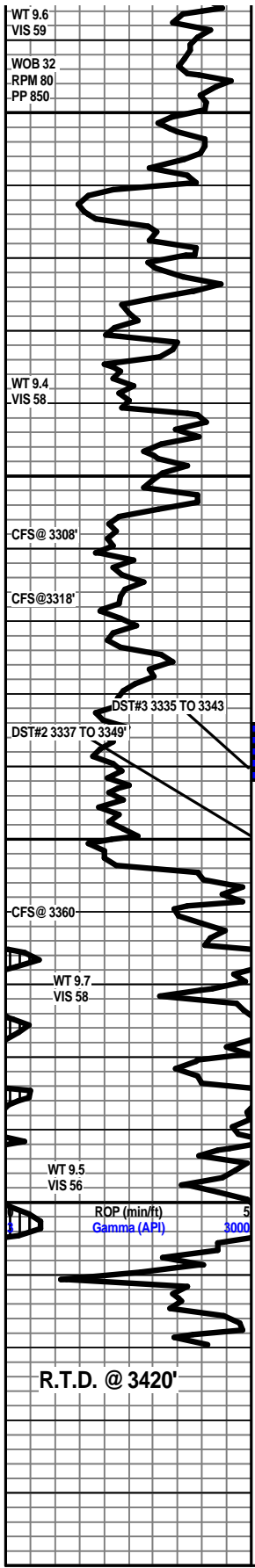
### STARK SH 3205' - 1337

SH- BLK SFT CARB

LS- WHT TO CRM- HD DNS V/F-CRYPTO-XLN, SLI TR VRGTD SMLL CALC XLS IP, TR TN CHRT, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM BFF- HD DNS V/F-CRYPTO-XLN, GRDNG TO V/ TT SUCRO SLI S-CHLKY MTRX IP, NO FLO, NO VIS POR, NO VIS SHOW





**SH- LT GRN TO GRN, FRM BLKY GRNY TXT**

LS- CRM LTN TN TN- HD DNS V/F-CRYPTO-XLN, TR S-LITHO IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TN- HD DNS TO TR BRITT, V/F-CRYPTO-XLN TO V/ TT SUCRO MTRX IP, TR TRNSLCNT BRN CHRT, NO FLO, NO VIS POR, NO VIS SHOW

**BKC 3260' - 1392'**

SH- MD TO DK GY- FRM BLKY W/ SMTH TXT, TR SPLNTY IP

LS- LT TN TN- HD DNS TO BRITT, MD-V/F-XLN, SLI RE-XLN IP SLI TR CALC XLS IMBD IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- DK GY -FRM BLKY SMTH TXT TO BLK SFT CARB IP

LS- OFF WHT CRM BFF- HD DNS TO BRITT, MD-F-XLN , SMLL CALC XLS IMBD IP,

3304 TO 3308 SS-CLR TO FRSTY GRNS- ABDT LOOSE GRNS IN TRAY , V/F-F GNS, S-RND TO RND, TR MD S-ANG FREE CLR QURTZ GRNS, ABDT RED BRN BLK CHRT, NO FLO, NO VIS POR, NO VIS SHOW

3309 TO 3311- SS- FRSTY WHT- HD TO FRI, ABDT V/F-F GRNS QURTZ W/ POSS DOLO CMNT, V/ CHLKY CMNT , TR OCCAS. MD S-ANG CLR QURTZ GRNS IMBD, NO FLO, NO VIS POR, NO VIS SHOW

3311- 3318' CHRT- RED ORNGE BLCK- W. LMNTD RED GRN FRM BLKY SH, TR SFT RED GMMY IP

**ARBUCKLE 3323' -1455'**

3325 TO 3354' DOLO- LT TN TO TN WHT IP( TN STN IN 70%) ABDT IMBD SMLL TO MD ANG DOLO GRNS THRU, GD OIL ODOR, BRIT YEL GLD FLO IN 100%,FR TO GD VIS INT-XLN POR, FR TO GD VIS MICRO VUG POR IP, LT FL SH CUT , FR TO GD SLO STRM CUT. LT TN LCH ON DISH

3354' QURTZTE- CLR- HD DNS PRED UNCONSLTD ANG S-ANG, W. IMBD HVY MIN SCAT THRU, SLI TR OIL STN IN 10%, NO FLO, NO VIS POR, NO VIS SHOW

QURTZTE- FRSTY CLR- HD TT, PRED UNCNSLTD AND S-ANG CLR QURTZ, HVY TR ABDT S-ANG F- V/F- CLSTRS W/ HVY T MIN IMBD THRU, POSS MGNTE, NO FLO, NO VIS POR, NO VIS SHOW

QURTZTE- FRSTY CLR- HD TT, PRED REWORKD UNCNSLTD AND S-ANG CLR QURTZ, HVY TR ABDT S-ANG F- V/F- CLSTRS W/ HVY TR MIN IMBD THRU, POSS MGNTE, NO FLO, NO VIS POR, NO VIS SHOW

QURTZTE- CLR GRNS- HD DNS REWORKED SMLL MD ANG TO S-ANG QURTZ W/ ABDT IMBD DK GY MIN THRU, NO FLO, NO VIS POR, NO VIS SHOW

QURTZTE- CLR FRSTY- HD DNS TR FRI IP, REWORKD, SMLL TO MD TO LRG ANG TO S-ANG QURTZ W/ ABDT IMBD HVY MIN SCAT AND MIN CLSTRS IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

TD @ 4:00 PM 7/10/10

CTCH 1.5 HRS

TOFL

WEATHERFORD/ LIBERAL

