

KANSAS CORPORATION COMMISSION 1047364
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: CLAYTON CAMOZZI
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>07/24/2010</u> | <u>07/30/2010</u> | <u>07/30/2010</u> |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-009-25453-00-00
Spot Description: _____
SE NW Sec. 23 Twp. 17 S. R. 12 East West
1,980 Feet from North / South Line of Section
1,980 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Barton
Lease Name: SCHILLER Well #: 1-23
Field Name: _____
Producing Formation: N/A
Elevation: Ground: 1857 Kelly Bushing: 1867
Total Depth: 3468 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 379 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: 62000 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: 11/23/2010 - Denied

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: Deanna Garrison Date: 11/30/2010

Rec'd



1047364

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: SCHILLER Well #: 1-23
Sec. 23 Twp. 17 S. R. 12 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 (Attach Additional Sheets) [X] Yes [] No [X] Log Formation (Top), Depth and Datum [] Sample
Samples Sent to Geological Survey [X] Yes [] No
Cores Taken [] Yes [X] No
Electric Log Run [X] Yes [] No
Electric Log Submitted Electronically [X] Yes [] No
List All E. Logs Run: Attached

| Name | Top | Datum |
|----------|------|-------|
| TOPEKA | 2718 | -851 |
| HEEBNER | 2963 | -1096 |
| DOUGLAS | 2992 | -1125 |
| LANSING | 3085 | -1218 |
| ARBUCKLE | 3338 | -1471 |
| TD | 3468 | |

CASING RECORD [X] New [] 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 | 379 | CLASS A | 300 | 3%CC, 2% GEL |
| | | | | | | | |
| | | | | | | | |

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 | - | | | |

PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated

| Shots Per Foot | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | 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

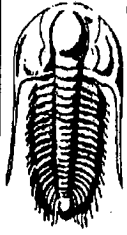
DISPOSITION OF GAS: [] Vented [] Sold [] Used on Lease (If vented, Submit ACO-18.)
METHOD OF COMPLETION: [] Open Hole [] Perf. [] Dually Comp. [] Commingled [] Other (Specify)
PRODUCTION INTERVAL:

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

| | |
|-----------|------------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Samuel Gary Jr. & Associates, Inc. |
| Well Name | SCHILLER 1-23 |
| Doc ID | 1047364 |

All Electric Logs Run

| |
|--|
|  |
| COMPACT PHOTO DENSITY COMPENSATED NEUTRON |
| MICRO RESISTIVITY |
| COMPENSATED SONIC |
| ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc Inc
1515 Wynkoop, Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

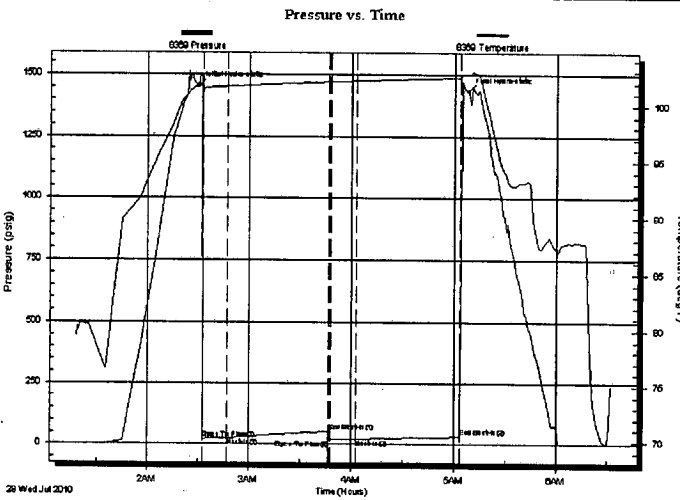
Schiller #1-23
23-17s-12w Barton
Job Ticket: 36812 DST#: 1
Test Start: 2010.07.28 @ 01:17:40

GENERAL INFORMATION:

Formation: **LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:32:35
Time Test Ended: 06:32:04
Interval: **3070.00 ft (KB) To 3120.00 ft (KB) (TVD)**
Total Depth: 3120.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 47
Reference Elevations: 1874.00 ft (KB)
1866.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8369 Outside
Press@RunDepth: 21.52 psig @ 3082.02 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.07.28 End Date: 2010.07.28 Last Calib.: 2010.07.28
Start Time: 01:17:40 End Time: 06:32:04 Time On Btm: 2010.07.28 @ 02:29:35
Time Off Btm: 2010.07.28 @ 05:07:35

TEST COMMENT: IFP-surface bl died in 5min
FFP-no bl
Times 15-60-15-60
no bl on shut-in



PRESSURE SUMMARY

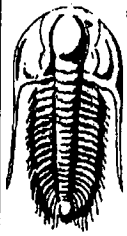
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1453.36 | 101.64 | Initial Hydro-static |
| 3 | 22.09 | 101.49 | Open To Flow (1) |
| 18 | 24.62 | 101.69 | Shut-In(1) |
| 77 | 52.11 | 102.13 | End Shut-In(1) |
| 78 | 18.01 | 102.13 | Open To Flow (2) |
| 93 | 21.52 | 102.21 | Shut-In(2) |
| 154 | 31.43 | 102.52 | End Shut-In(2) |
| 158 | 1432.61 | 102.78 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 5.00 | Mud w/show of oil | 0.07 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc Inc

Schiller #1-23

1515 Wynkoop, Ste 700
Denver Co 80202

23-17s-12w Barton

Job Ticket: 36812

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2010.07.28 @ 01:17:40

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.57 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------|---------------|
| 5.00 | Mud w/show of oil | 0.070 |

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

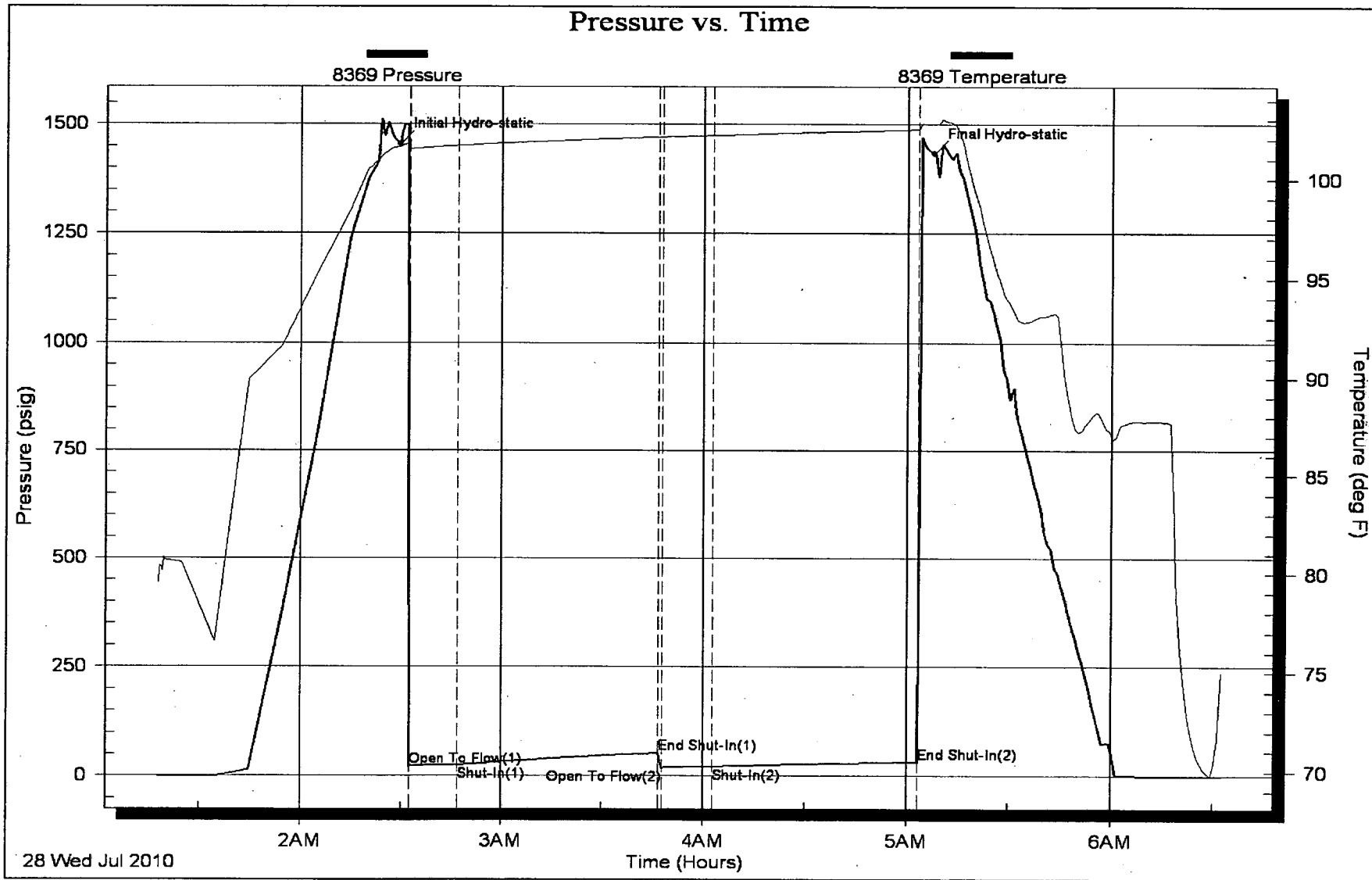
Num Gas Bombs: 0

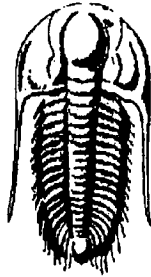
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1515 Wynkoop, Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

23-17s-12w Barton

Schiller #1-23

Start Date: 2010.07.29 @ 07:09:05

End Date: 2010.07.29 @ 13:43:05

Job Ticket #: 36813 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Samuel Gary Jr. & Assoc Inc

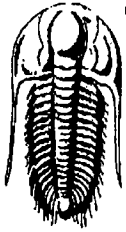
Schiller #1-23

23-17s-12w Barton

DST # 2

Arbuckle

2010.07.29



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc Inc
 1515 Wynkoop, Ste 700
 Denver Co 80202
 ATTN: Clayton Camozzi

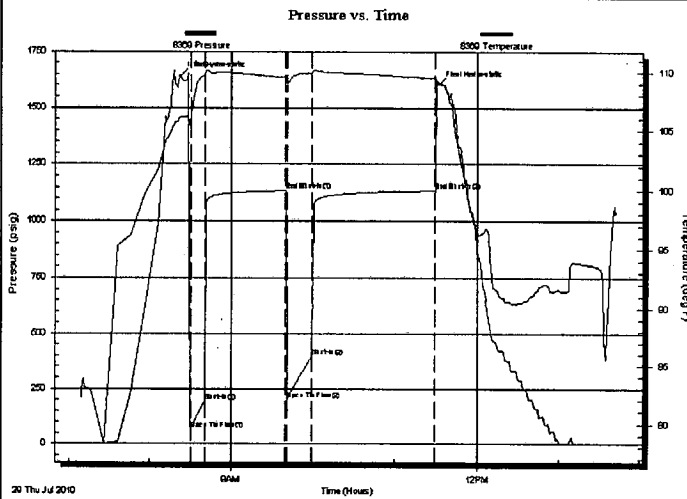
Schiller #1-23
23-17s-12w Barton
 Job Ticket: 36813 **DST#: 2**
 Test Start: 2010.07.29 @ 07:09:05

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 08:30:05
 Time Test Ended: 13:43:05
 Interval: **3350.00 ft (KB) To 3367.00 ft (KB) (TVD)**
 Total Depth: **3367.00 ft (KB) (TVD)**
 Hole Diameter: **7.85 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Brett Dickinson**
 Unit No: **47**
 Reference Elevations: **1874.00 ft (KB)**
 1866.00 ft (CF)
 KB to GRV/CF: 8.00 ft

Serial #: 8369 Outside
 Press@RunDepth: **394.84 psig @ 3351.02 ft (KB)**
 Start Date: **2010.07.29** End Date: **2010.07.29**
 Start Time: **07:09:10** End Time: **13:43:04**
 Capacity: **8000.00 psig**
 Last Calib.: **2010.07.29**
 Time On Btm: **2010.07.29 @ 08:22:35**
 Time Off Btm: **2010.07.29 @ 11:32:05**

TEST COMMENT: IFP-strg bl in 2min
 ISI-No blow
 FF-BOB in 3min
 FSI-No Blow



PRESSURE SUMMARY

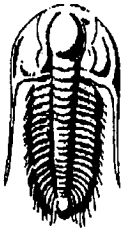
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1640.54 | 106.20 | Initial Hydro-static |
| 8 | 66.05 | 105.96 | Open To Flow (1) |
| 18 | 193.33 | 109.71 | Shut-In(1) |
| 78 | 1133.41 | 109.52 | End Shut-In(1) |
| 79 | 199.70 | 109.02 | Open To Flow (2) |
| 97 | 394.84 | 109.90 | Shut-In(2) |
| 187 | 1133.20 | 109.47 | End Shut-In(2) |
| 190 | 1603.81 | 109.09 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 60.00 | MOCW 40%O 40%W 20%M | 0.84 |
| 60.00 | VSOCW 5%O 95%W | 0.84 |
| 800.00 | WCO 5%G 55%O 40%W | 11.22 |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc Inc
1515 Wynkoop, Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

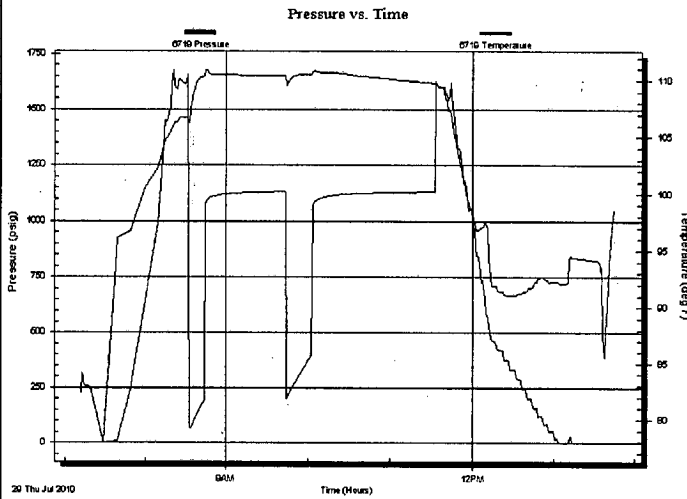
Schiller #1-23
23-17s-12w Barton
Job Ticket: 36813 **DST#: 2**
Test Start: 2010.07.29 @ 07:09:05

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:30:05
Time Test Ended: 13:43:05
Interval: **3350.00 ft (KB) To 3367.00 ft (KB) (TVD)**
Total Depth: **3367.00 ft (KB) (TVD)**
Hole Diameter: **7.85 inches** Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: 47
Reference Elevations: 1874.00 ft (KB)
1866.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6719 Inside
Press@RunDepth: psig @ 3351.01 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.07.29 End Date: 2010.07.29 Last Calib.: 2010.07.29
Start Time: 07:12:03 End Time: 13:45:57 Time On Btm:
Time Off Btm:

TEST COMMENT: IFF-strg bl in 2min
ISI-No blow
FF-BOB in 3min
FSI-No Blow



PRESSURE SUMMARY

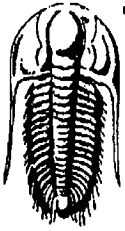
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 60.00 | MOCW 40%O 40%W 20%M | 0.84 |
| 60.00 | VSOCW 5%O 95%W | 0.84 |
| 800.00 | WCO 5%G 55%O 40%W | 11.22 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc Inc

Schiller #1-23

1515 Wynkoop, Ste 700
Denver Co 80202

23-17s-12w Barton

Job Ticket: 36813

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2010.07.29 @ 07:09:05

Tool Information

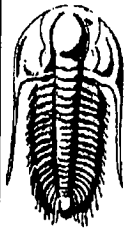
| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3348.00 ft | Diameter: 3.80 inches | Volume: 46.96 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 42000.00 lb |
| | | | <u>Total Volume: 46.96 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 26.00 ft | | | String Weight: Initial 34000.00 lb |
| Depth to Top Packer: | 3350.00 ft | | | Final 39000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 17.02 ft | | | |
| Tool Length: | 45.02 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 | | | 3323.00 | |
| Shut In Tool | 5.00 | | | 3328.00 | |
| Hydraulic tool | 5.00 | | | 3333.00 | |
| Jars | 5.00 | | | 3338.00 | |
| Safety Joint | 2.00 | | | 3340.00 | |
| Packer | 5.00 | | | 3345.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3350.00 | |
| Stubb | 1.00 | | | 3351.00 | |
| Recorder | 0.01 | 6719 | Inside | 3351.01 | |
| Recorder | 0.01 | 8369 | Outside | 3351.02 | |
| Perforations | 13.00 | | | 3364.02 | |
| Bullnose | 3.00 | | | 3367.02 | 17.02 Bottom Packers & Anchor |

Total Tool Length: 45.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc Inc

Schiller #1-23

1515 Wynkoop, Ste 700
Denver Co 80202

23-17s-12w Barton

Job Ticket: 36813

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2010.07.29 @ 07:09:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

18000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|---------------------|----------------|
| 60.00 | MOCW 40%O 40%W 20%M | 0.842 |
| 60.00 | VSOCW 5%O 95%W | 0.842 |
| 800.00 | WCO 5%G 55%O 40%W | 11.222 |

Total Length: 920.00 ft

Total Volume: 12.906 bbl

Num Fluid Samples: 0

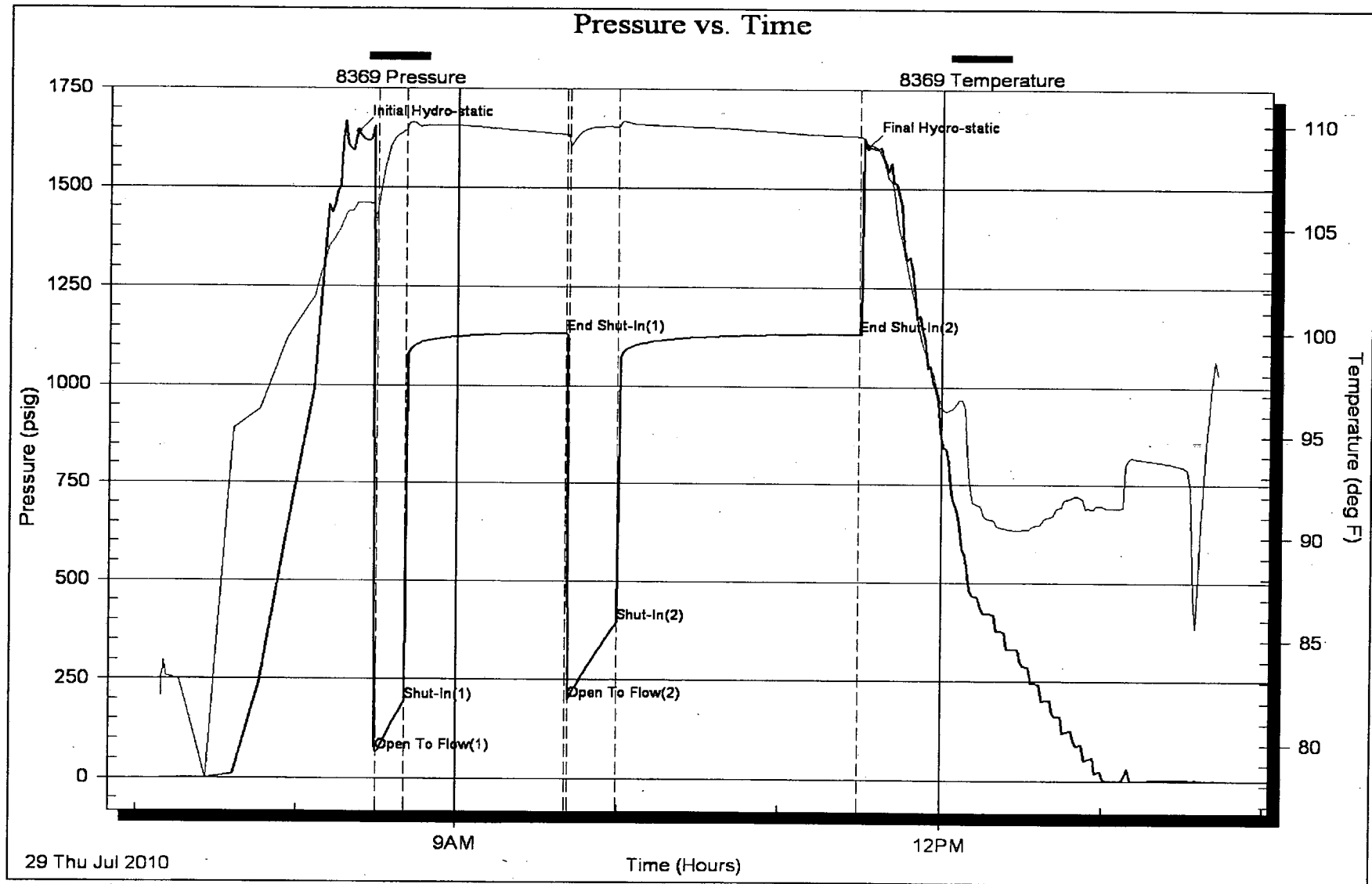
Num Gas Bombs: 0

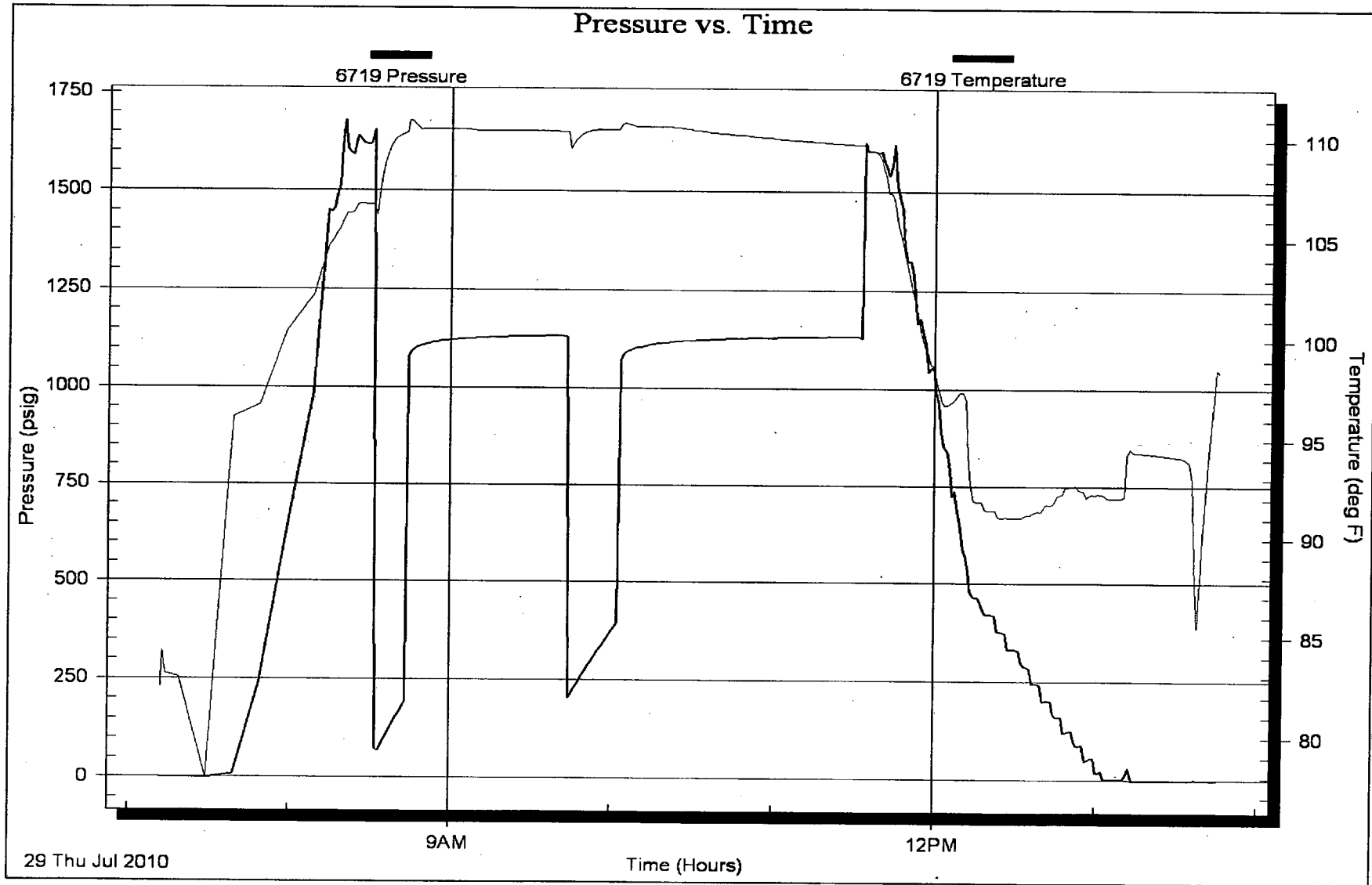
Serial #:

Laboratory Name:

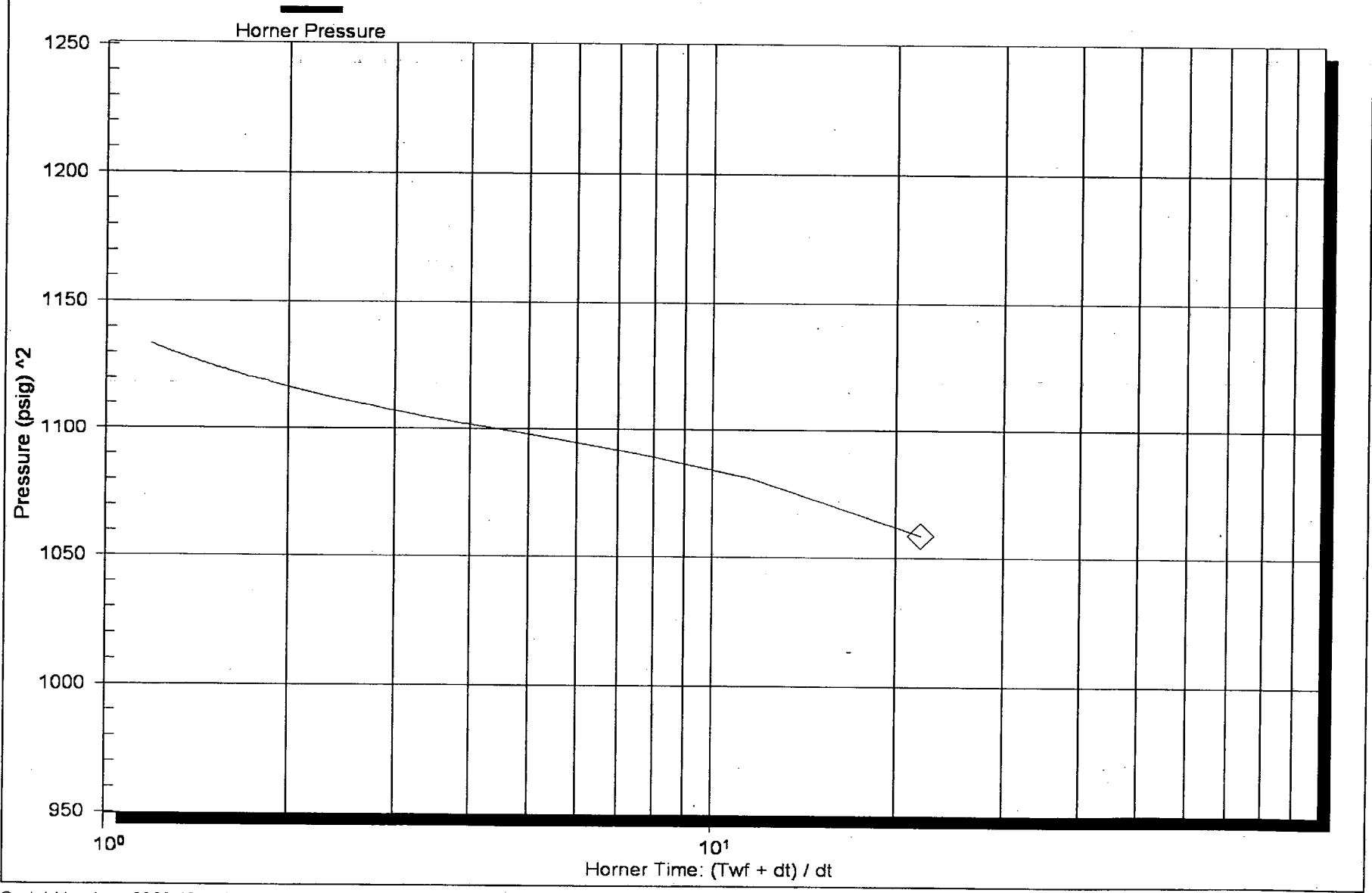
Laboratory Location:

Recovery Comments:





Horner Plot



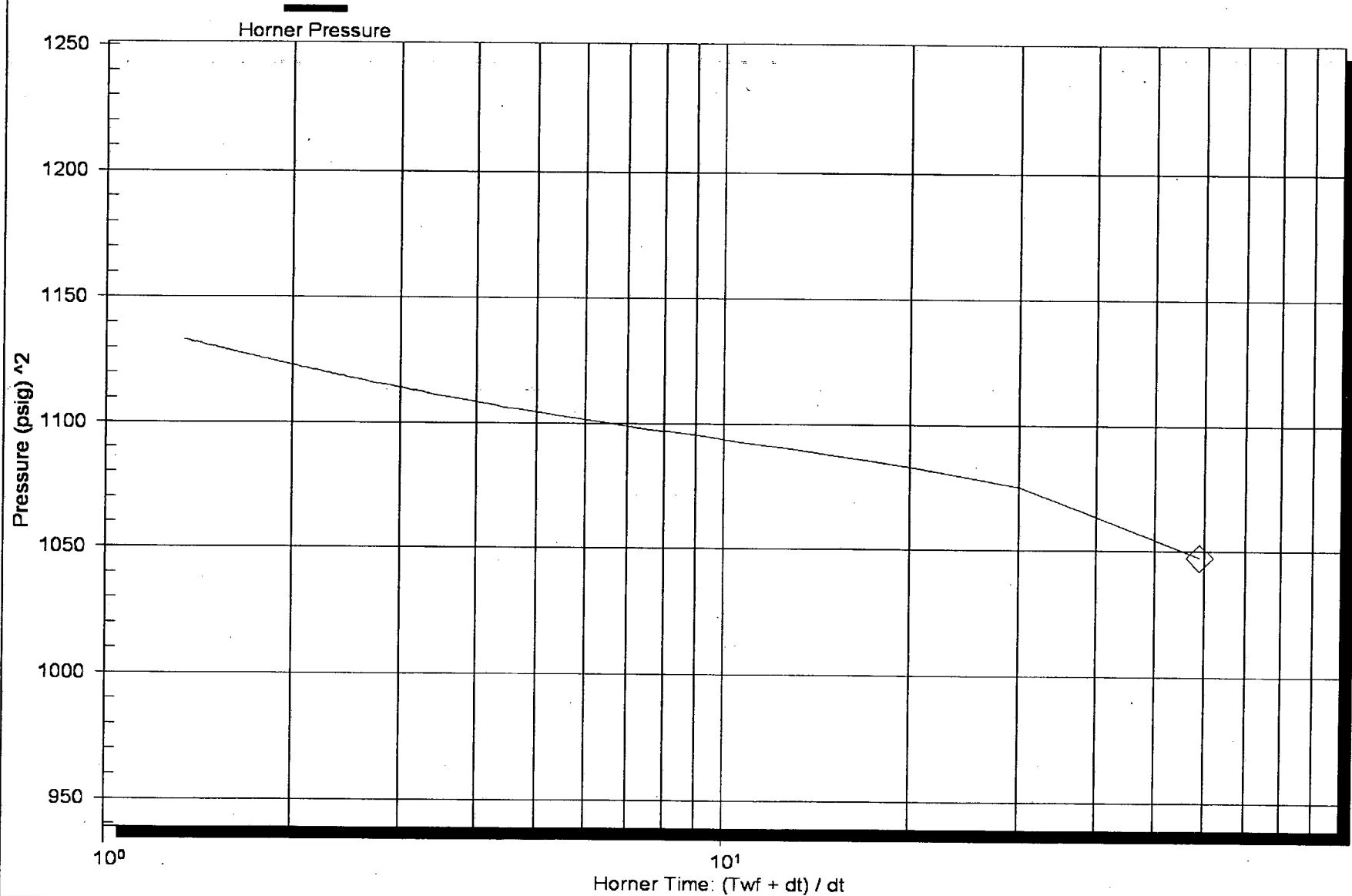
Serial Number: 8369 (Outside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



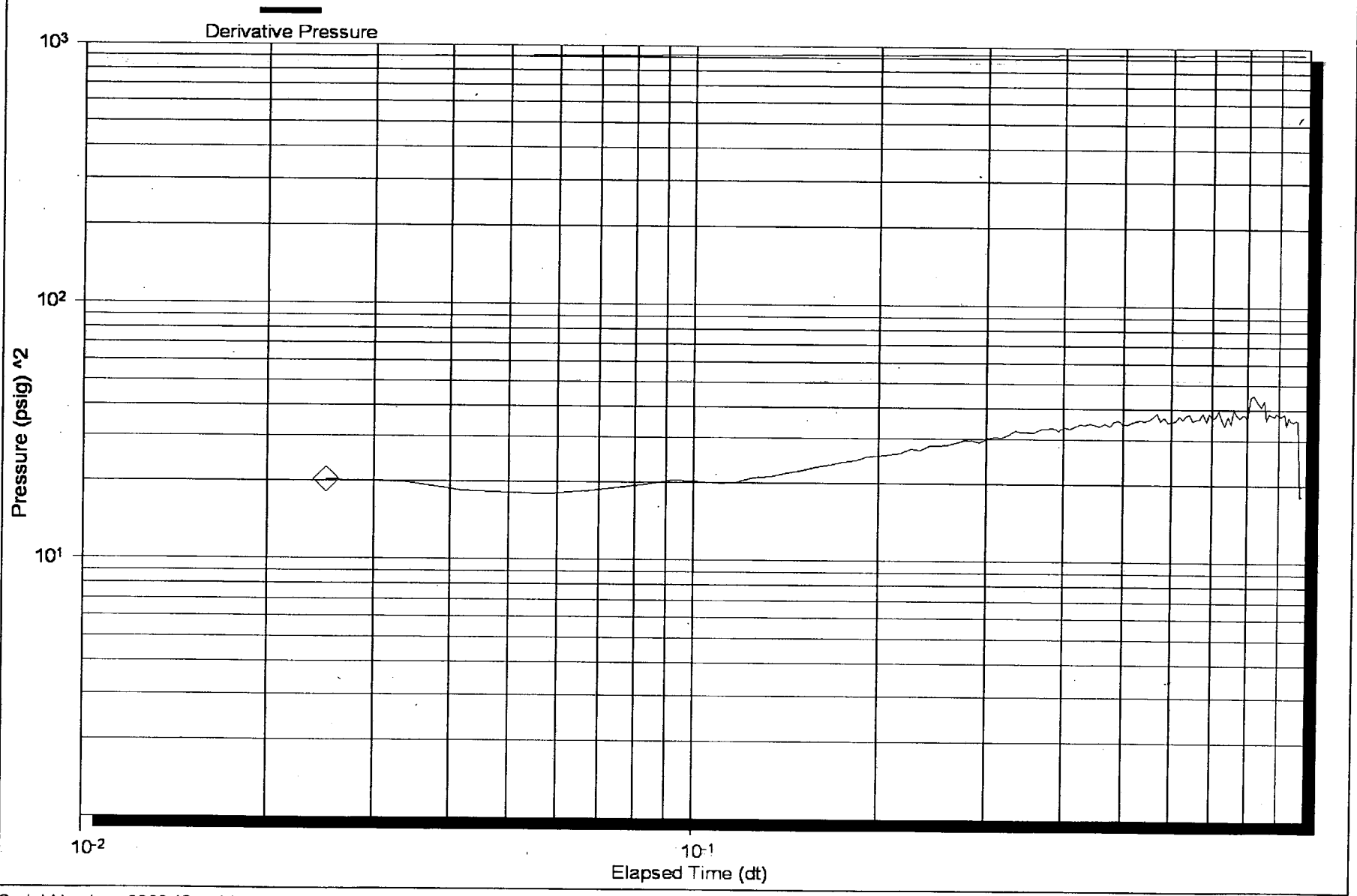
Serial Number: 8369 (Outside)

P* :

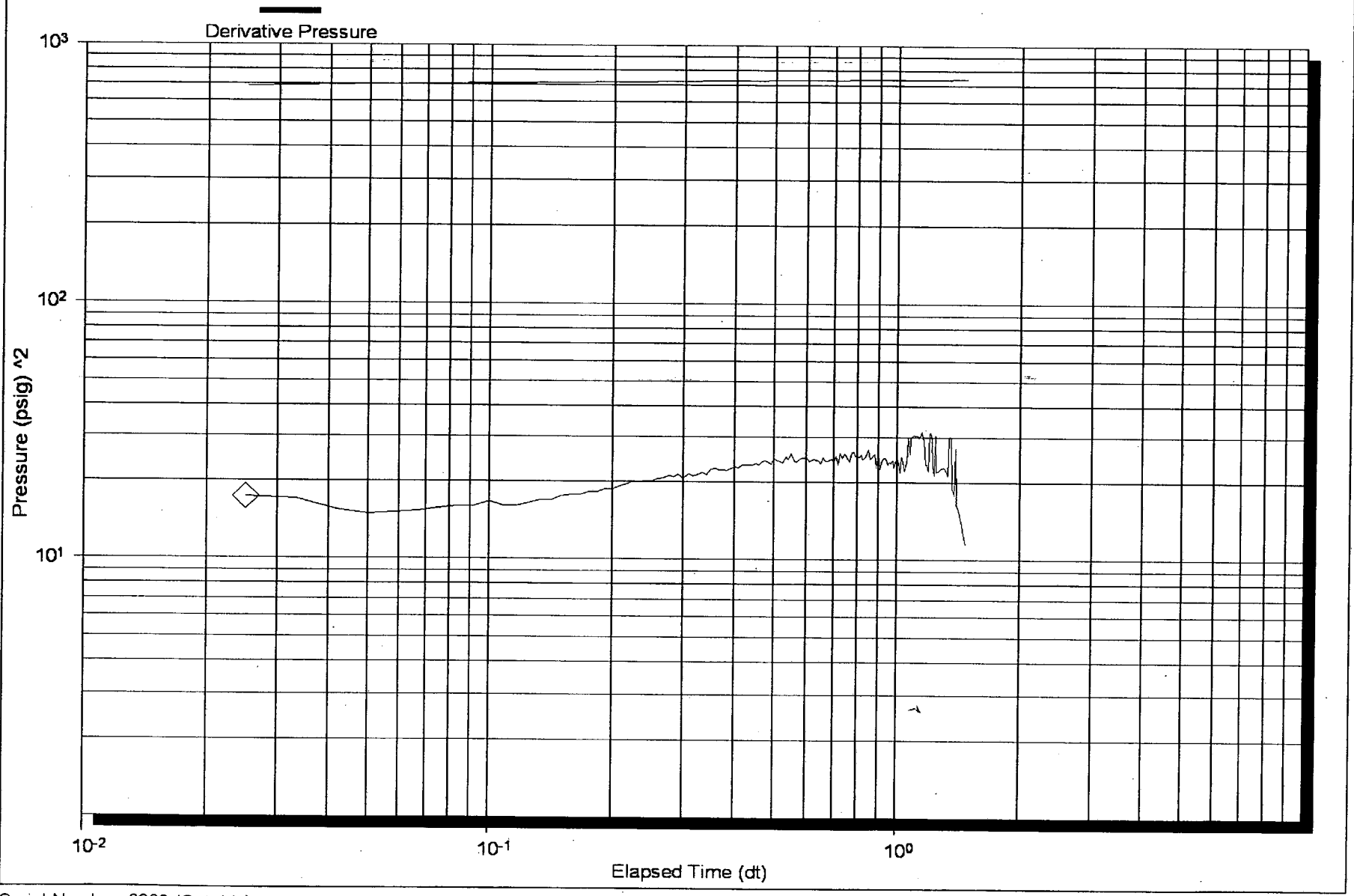
Slope (m) : kpa/log cycle

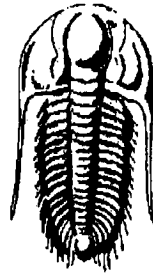
Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1515 Wynkoop, Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

23-17s-12w Barton KS

Schiller #1-23

Start Date: 2010.07.30 @ 03:18:48

End Date: 2010.07.30 @ 08:35:12

Job Ticket #: 39529 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Samuel Gary Jr. & Assoc Inc

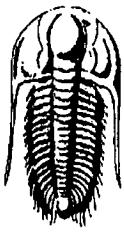
Schiller #1-23

23-17s-12w Barton KS

DST # 3

Arbuckle

2010.07.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc Inc

Schiller #1-23

1515 Wynkoop, Ste 700
Denver Co 80202

23-17s-12w Barton KS

Job Ticket: 39529

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2010.07.30 @ 03:18:48

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:49:43

Time Test Ended: 08:35:12

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 41

Interval: **3332.00 ft (KB) To 3356.00 ft (KB) (TVD)**

Reference Elevations: 1874.00 ft (KB)

Total Depth: 3470.00 ft (KB) (TVD)

1866.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8647

Inside

Press@RunDepth: 37.62 psig @ 3341.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.30

End Date:

2010.07.30

Last Calib.: 2010.07.30

Start Time: 03:18:48

End Time:

08:35:12

Time On Btm: 2010.07.30 @ 04:48:43

Time Off Btm: 2010.07.30 @ 07:21:13

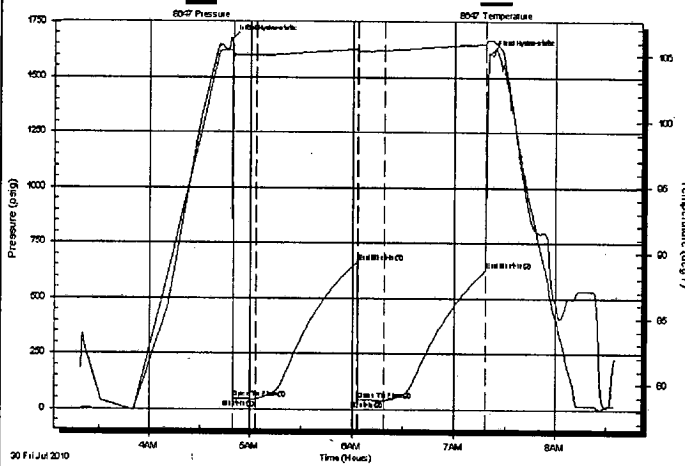
TEST COMMENT: IFP - 1/2" blow - died 5 min.

ISI - no blow back

FFP - no blow

FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

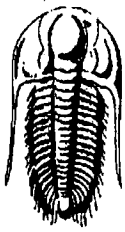
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1670.14 | 105.43 | Initial Hydro-static |
| 1 | 47.46 | 104.64 | Open To Flow (1) |
| 15 | 42.53 | 105.03 | Shut-In(1) |
| 75 | 665.83 | 105.49 | End Shut-In(1) |
| 75 | 41.46 | 105.26 | Open To Flow (2) |
| 90 | 37.62 | 105.40 | Shut-In(2) |
| 150 | 627.75 | 105.92 | End Shut-In(2) |
| 153 | 1606.48 | 106.22 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (tbi) |
|-------------|----------------|--------------|
| 1.00 | free oil tstm | 0.01 |
| 3.00 | vsocm 5%, 95%m | 0.04 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc Inc

Schiller #1-23

1515 Wynkoop, Ste 700
Denver Co 80202

23-17s-12w Barton KS

Job Ticket: 39529

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2010.07.30 @ 03:18:48

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:49:43

Time Test Ended: 08:35:12

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 41

Interval: **3332.00 ft (KB) To 3356.00 ft (KB) (TVD)**

Total Depth: 3470.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1874.00 ft (KB)

1866.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8371 Outside

Press@RunDepth: psig @ 3341.00 ft (KB)

Start Date: 2010.07.30

End Date:

2010.07.30

Capacity: 8000.00 psig

Start Time: 03:18:38

End Time:

08:37:02

Last Calib.: 2010.07.30

Time On Btm:

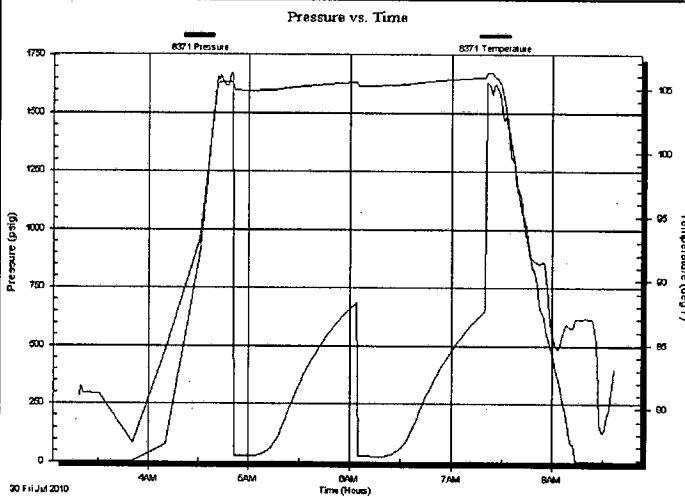
Time Off Btm:

TEST COMMENT: IFP - 1/2" blow - died 5 min.

ISI - no blow back

FFP - no blow

FSI - no blow back



PRESSURE SUMMARY

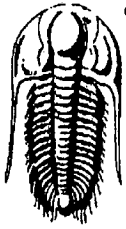
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------|--------------|
| 1.00 | free oil tstm | 0.01 |
| 3.00 | vsocm 5%o, 95%m | 0.04 |
| | | |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc Inc

Schiller #1-23

1515 Wynkoop, Ste 700
Denver Co 80202

23-17s-12w Barton KS

Job Ticket: 39529

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2010.07.30 @ 03:18:48

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:49:43
 Time Test Ended: 08:35:12

Test Type: Conventional Straddle
 Tester: Brian Fairbank
 Unit No: 41

Interval: **3332.00 ft (KB) To 3356.00 ft (KB) (TVD)**
 Total Depth: 3470.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1874.00 ft (KB)
 1866.00 ft (CF)
 KB to GR/CF: 8.00 ft

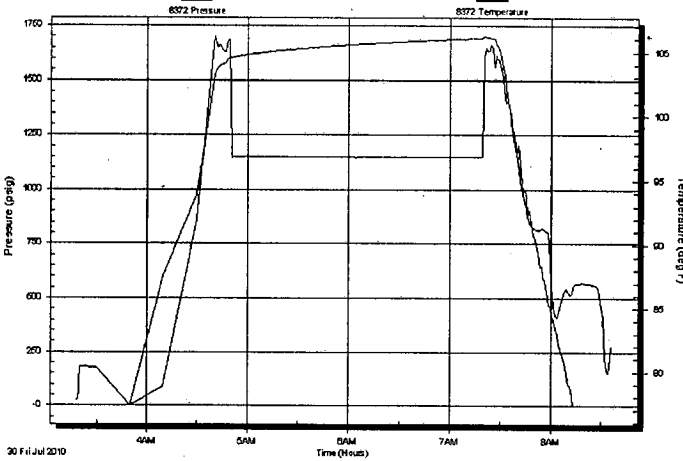
Serial #: 8372 Below (Straddle)

Press@RunDepth: psig @ 3379.00 ft (KB)
 Start Date: 2010.07.30 End Date: 2010.07.30
 Start Time: 03:17:59 End Time: 08:36:53

Capacity: 8000.00 psig
 Last Calib.: 2010.07.30
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP - 1/2" blow - died 5 min.
 ISI - no blow back
 FFP - no blow
 FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

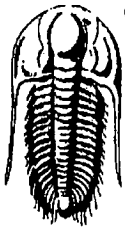
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------|--------------|
| 1.00 | free oil tstm | 0.01 |
| 3.00 | vsocm 5%, 95%m | 0.04 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc Inc

Schiller #1-23

1515 Wynkoop, Ste 700
Denver Co 80202

23-17s-12w Barton KS

Job Ticket: 39529

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2010.07.30 @ 03:18:48

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3318.00 ft | Diameter: 3.80 inches | Volume: 46.54 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: 42000.00 lb |
| | | | <u>Total Volume: 46.54 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 13.00 ft | | | String Weight: Initial 35000.00 lb |
| Depth to Top Packer: | 3332.00 ft | | | Final 35000.00 lb |
| Depth to Bottom Packer: | 3356.00 ft | | | |
| Interval between Packers: | 24.00 ft | | | |
| Tool Length: | 169.00 ft | | | |
| Number of Packers: | 3 | Diameter: 6.75 inches | | |

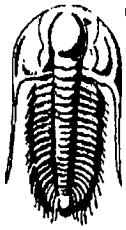
Tool Comments:

Tool Description

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

| | | | | | |
|----------------|-------|------|---------|---------|--------------------------------|
| Shut In Tool | 5.00 | | | 3310.00 | |
| Hydraulic tool | 5.00 | | | 3315.00 | |
| Jars | 5.00 | | | 3320.00 | |
| Safety Joint | 2.00 | | | 3322.00 | |
| Packer | 5.00 | | | 3327.00 | 27.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3332.00 | |
| Stubb | 1.00 | | | 3333.00 | |
| Perforations | 8.00 | | | 3341.00 | |
| Recorder | 0.00 | 8647 | Inside | 3341.00 | |
| Recorder | 0.00 | 8371 | Outside | 3341.00 | |
| Perforations | 10.00 | | | 3351.00 | |
| Blank Off Sub | 1.00 | | | 3352.00 | |
| Blank Spacing | 4.00 | | | 3356.00 | 24.00 Tool Interval |
| Packer | 5.00 | | | 3361.00 | |
| Stubb | 1.00 | | | 3362.00 | |
| Perforations | 17.00 | | | 3379.00 | |
| Recorder | 0.00 | 8372 | Below | 3379.00 | |
| Blank Spacing | 95.00 | | | 3474.00 | 118.00 Bottom Packers & Anchor |

Total Tool Length: 169.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc Inc

Schiller #1-23

1515 Wynkoop, Ste 700
Denver Co 80202

23-17s-12w Barton KS

Job Ticket: 39529

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2010.07.30 @ 03:18:48

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-----------------|----------------|
| 1.00 | free oil tstm | 0.014 |
| 3.00 | vsocm 5%o, 95%m | 0.042 |

Total Length: 4.00 ft

Total Volume: 0.056 bbl

Num Fluid Samples: 0

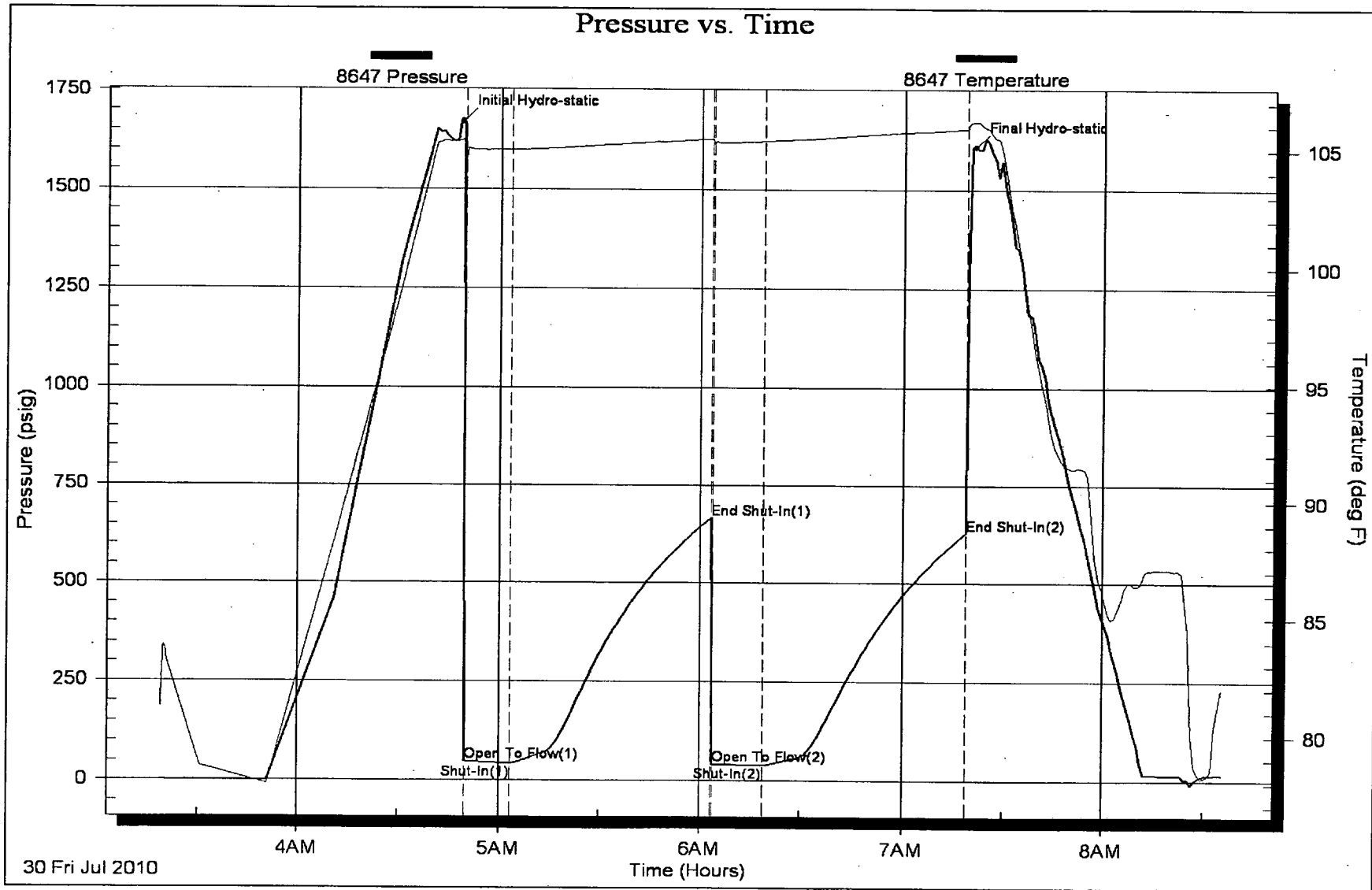
Num Gas Bombs: 0

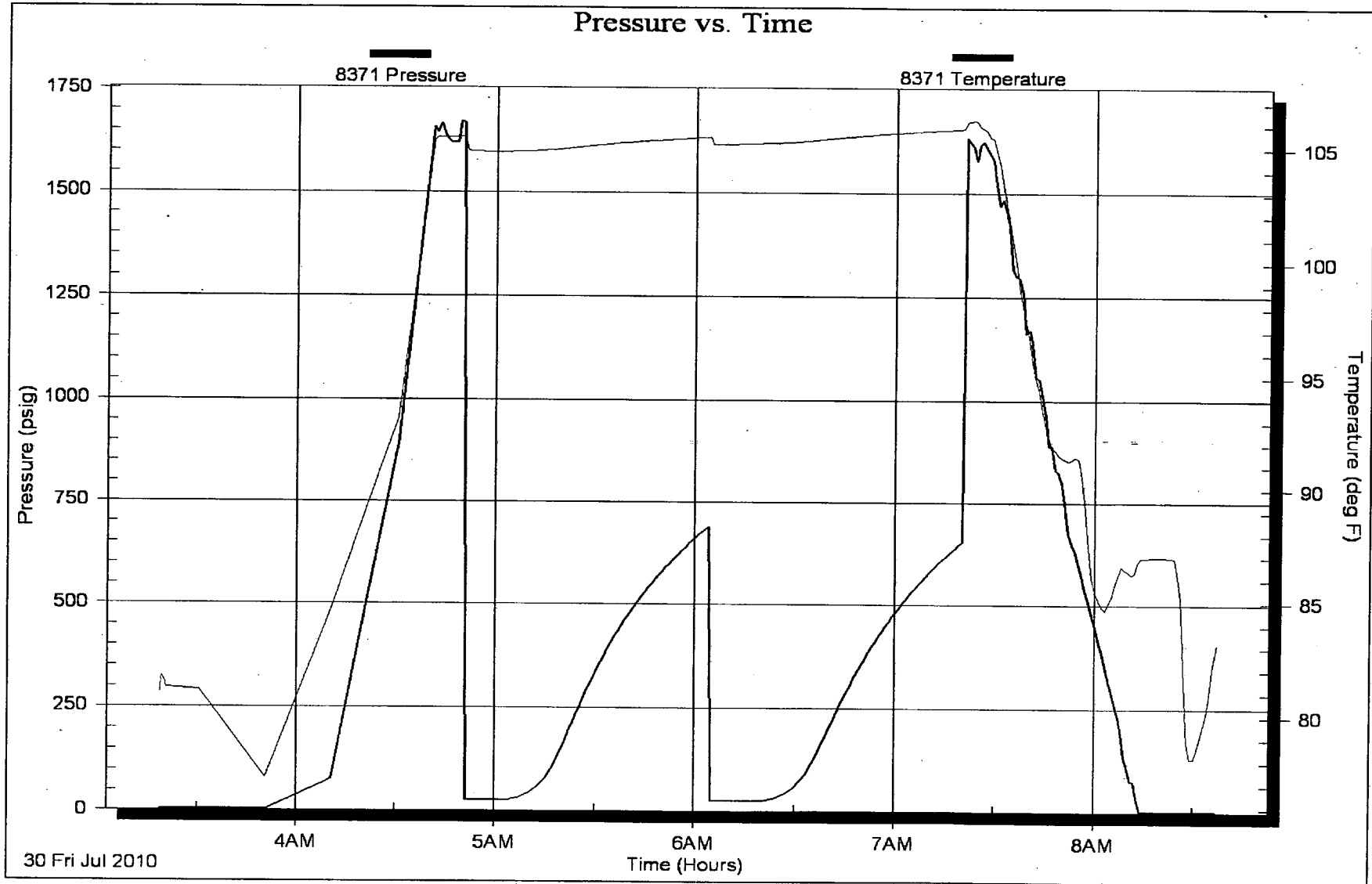
Serial #:

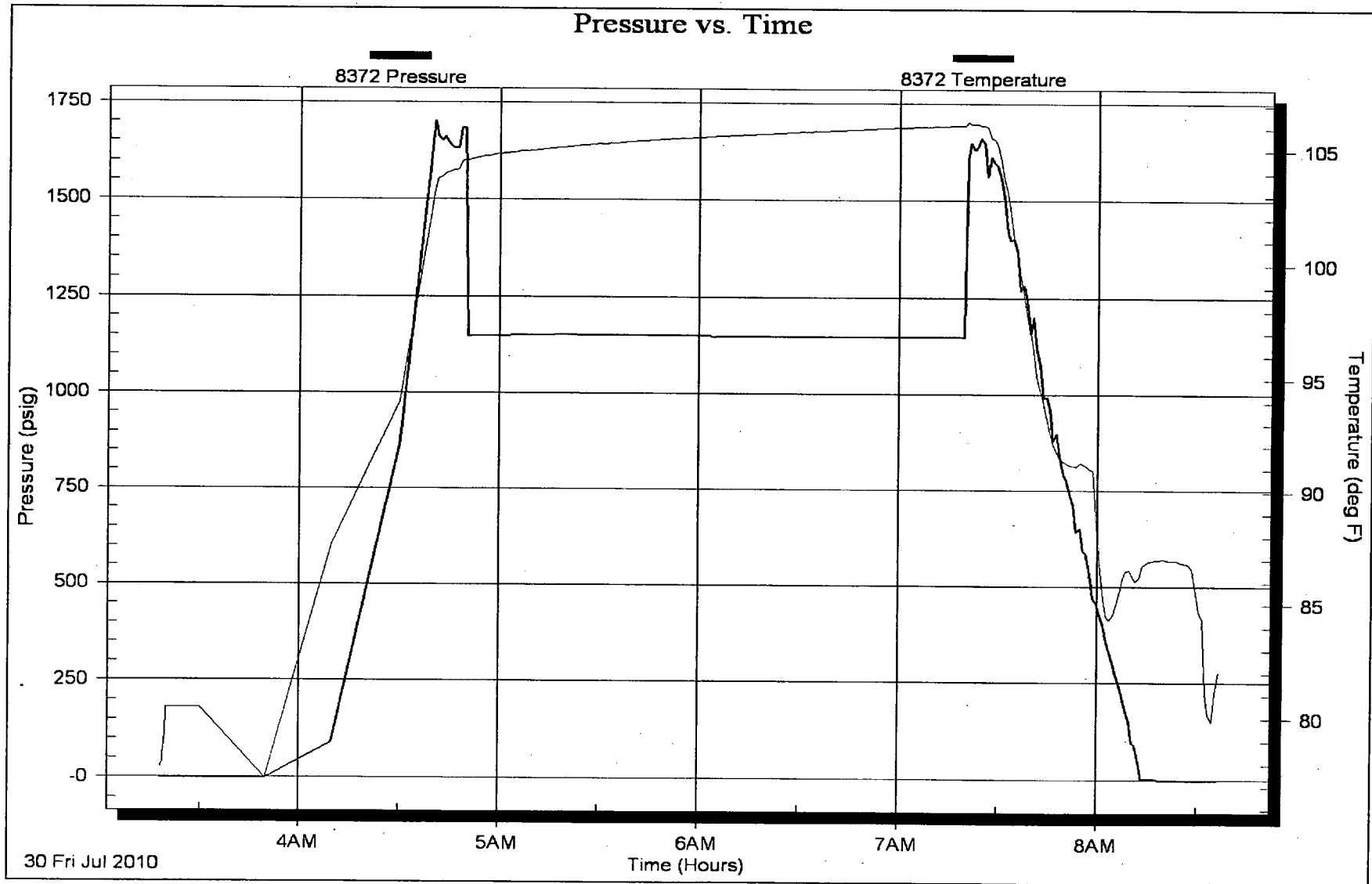
Laboratory Name:

Laboratory Location:

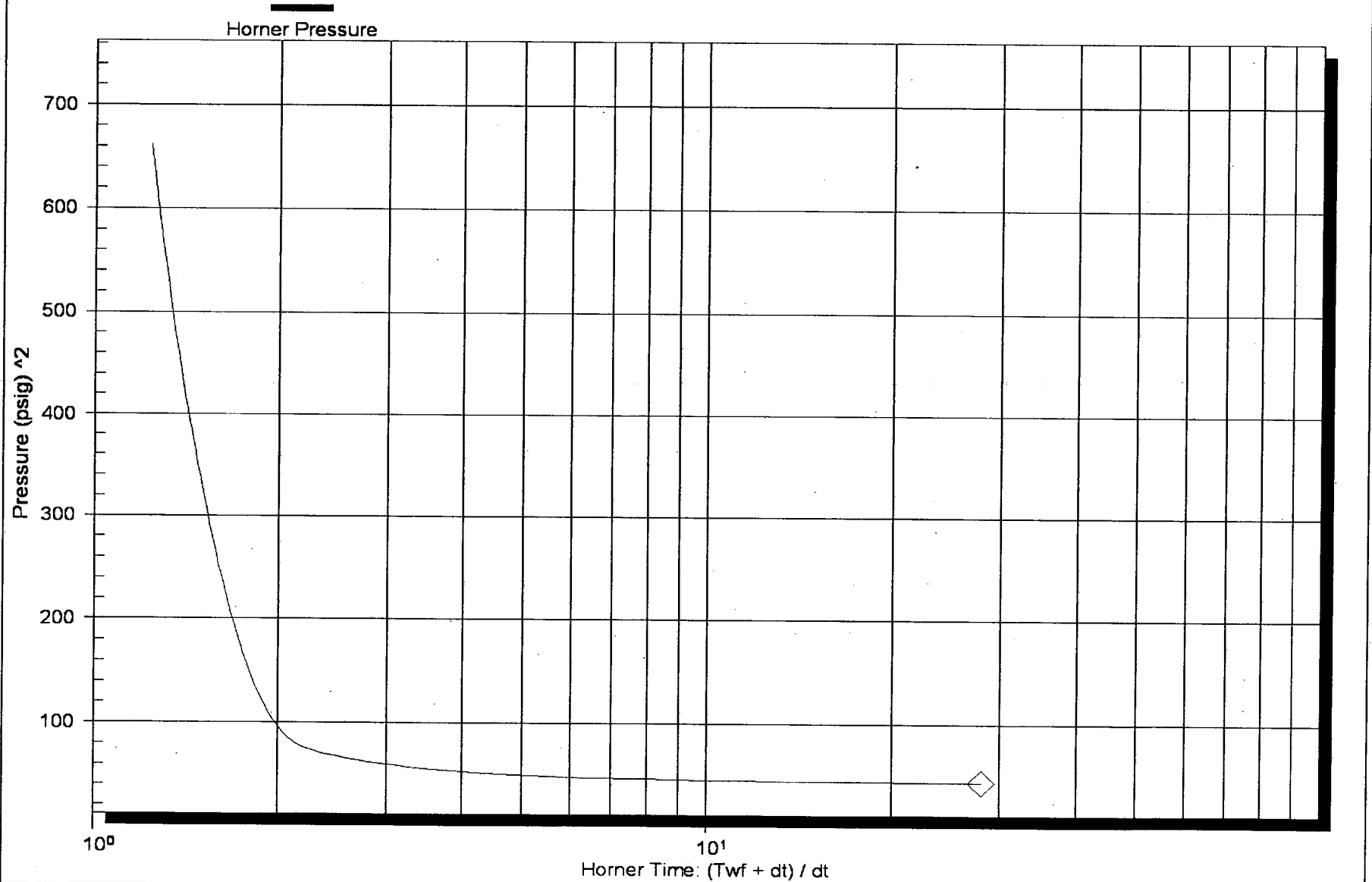
Recovery Comments:







Horner Plot



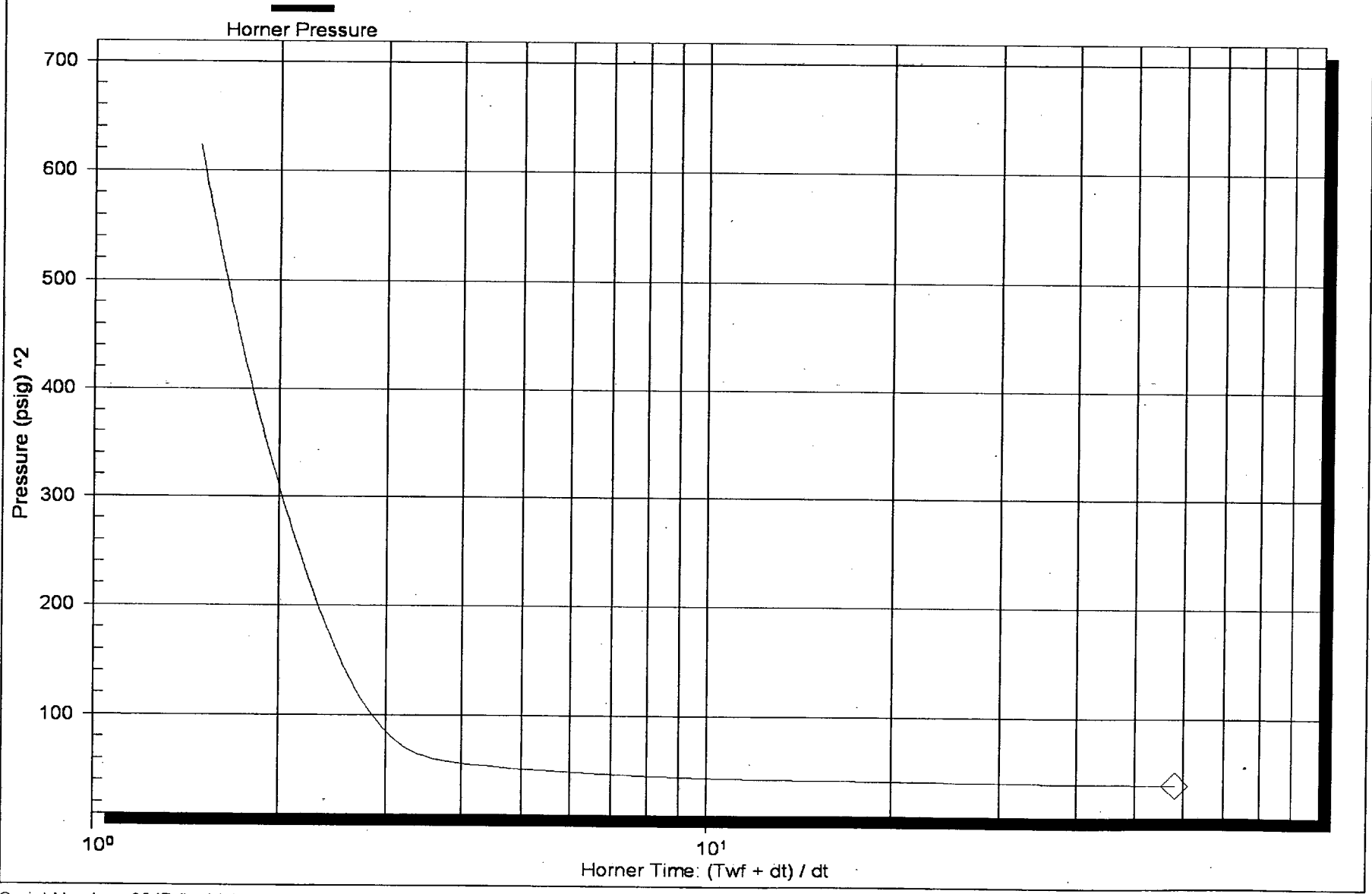
Serial Number: 8647 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



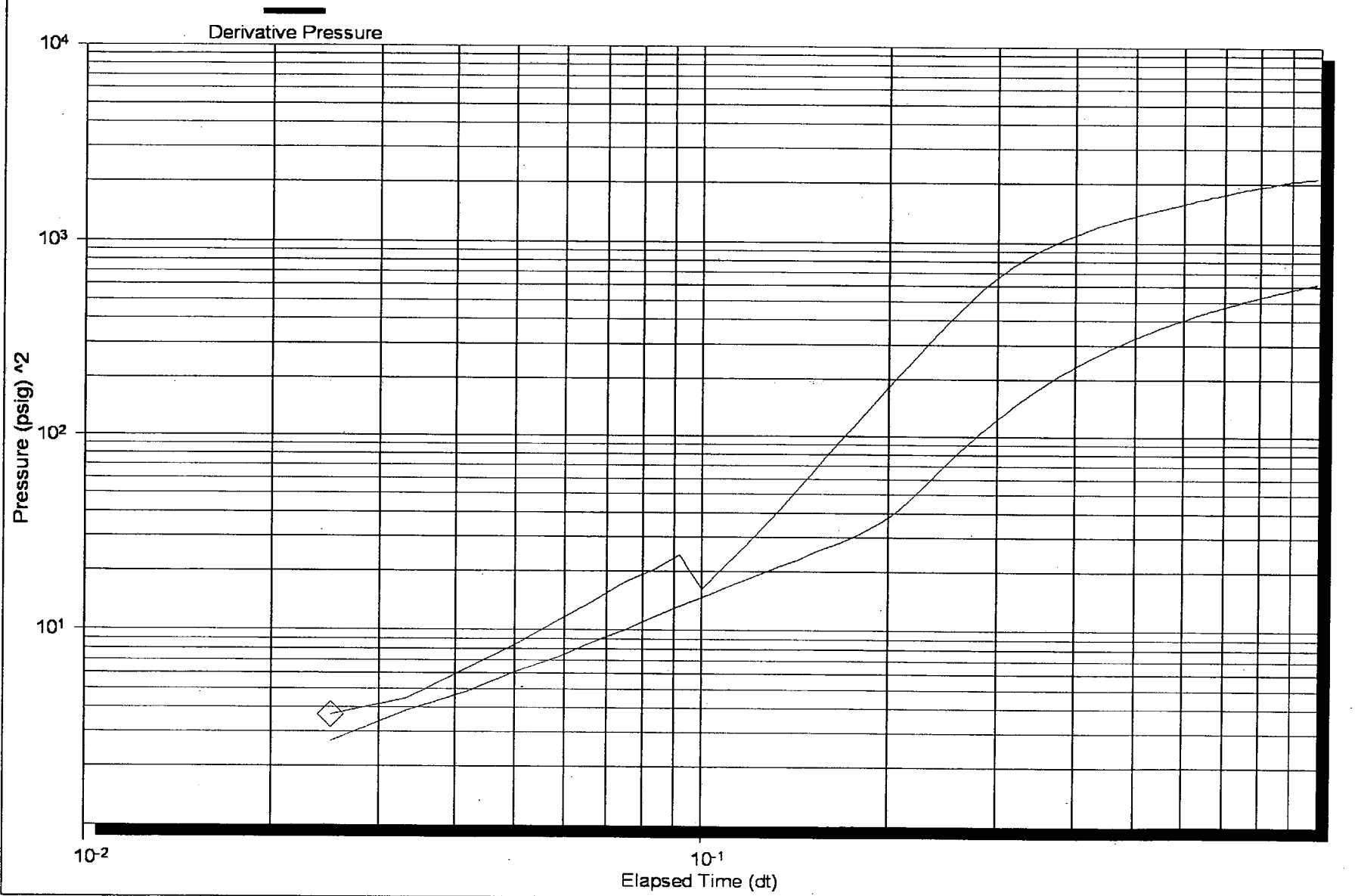
Serial Number: 8647 (Inside)

P* :

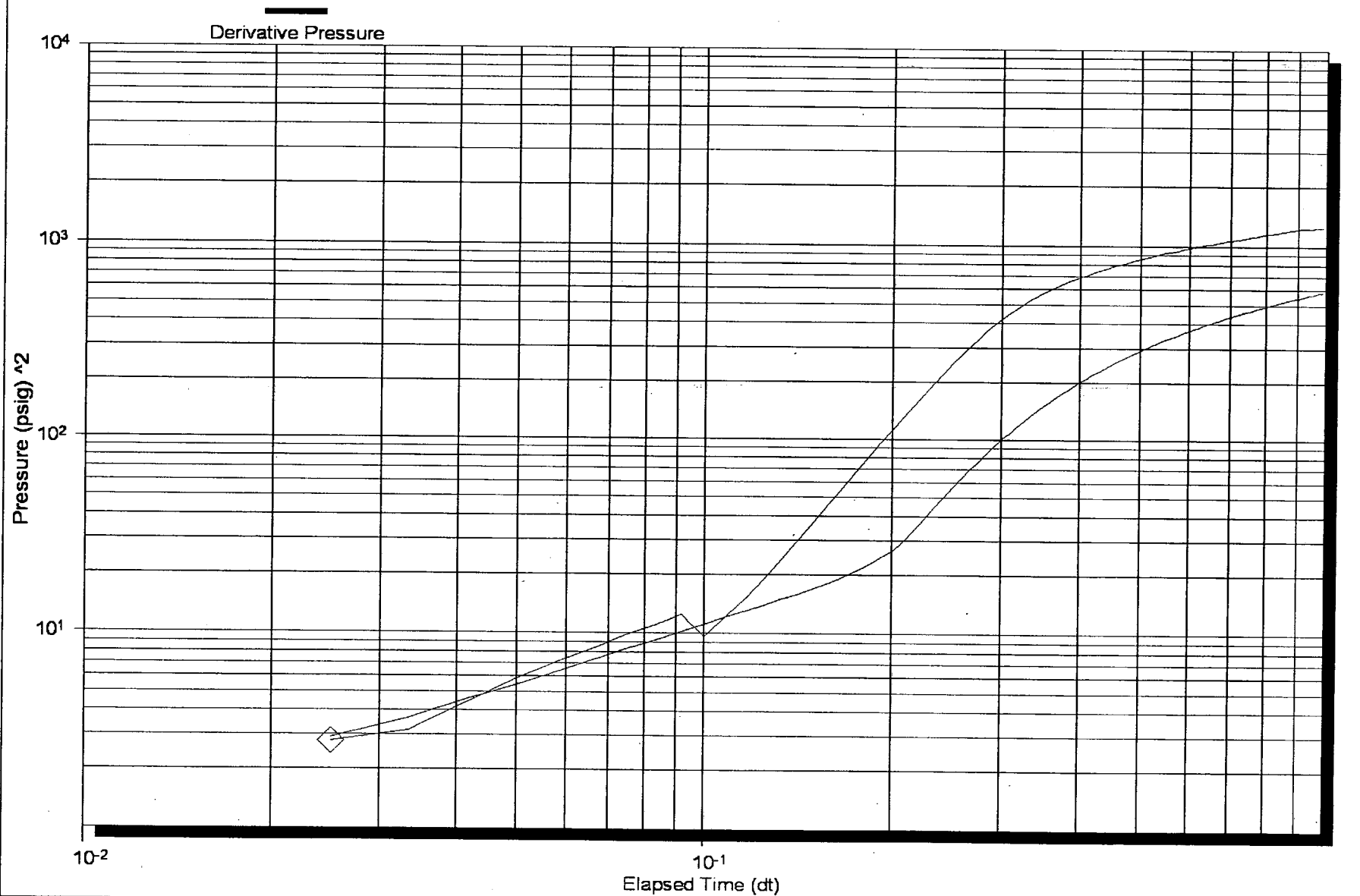
Slope (m) : kpa/log cycle

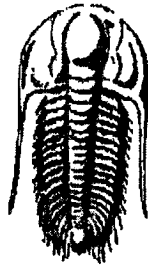
Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1515 Wynkoop, Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

23-17s-12w Barton KS

Schiller #1-23

Start Date: 2010.07.30 @ 09:06:08

End Date: 2010.07.30 @ 17:19:02

Job Ticket #: 39530 DST #: 4

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

Samuel Gary Jr. & Assoc Inc

Schiller #1-23

23-17s-12w Barton KS

DST # 4

Arbuckle

2010.07.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc Inc

1515 Wynkoop, Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

Schiller #1-23

23-17s-12w Barton KS

Job Ticket: 39530 DST#: 4

Test Start: 2010.07.30 @ 09:06:08

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 10:23:33

Time Test Ended: 17:19:02

Test Type: **Conventional Straddle**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3350.00 ft (KB) To 3360.00 ft (KB) (TVD)**

Total Depth: **3468.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **1874.00 ft (KB)**

1866.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8647

Inside

Press@RunDepth: **95.40 psig @ 3351.00 ft (KB)**

Start Date: **2010.07.30**

End Date:

2010.07.30

Capacity: **8000.00 psig**

Last Calib.: **2010.07.30**

Start Time: **09:06:08**

End Time:

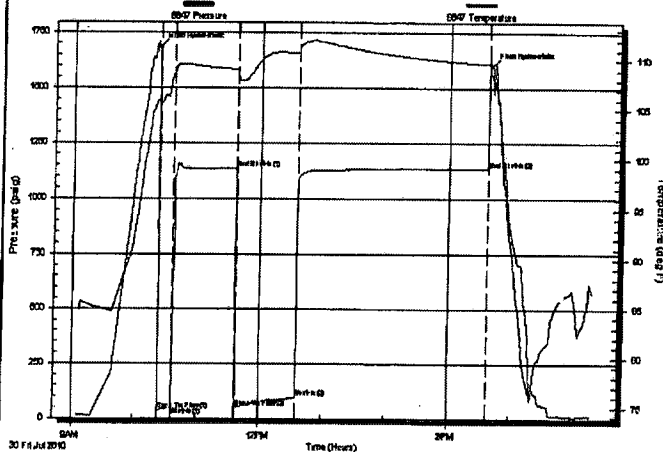
17:19:02

Time On Btrn: **2010.07.30 @ 10:22:33**

Time Off Btrn: **2010.07.30 @ 15:40:02**

TEST COMMENT: IFP - weak to fair blow 1/2" - 4 1/2"
ISI - no blow back
FFP - BOB 33 min.
FSI -

Pressure vs. Time



PRESSURE SUMMARY

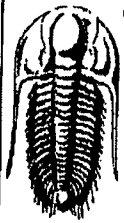
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1684.61 | 105.93 | Initial Hydro-static |
| 1 | 37.07 | 105.64 | Open To Flow (1) |
| 14 | 50.92 | 108.69 | Shut-In(1) |
| 74 | 1134.02 | 109.08 | End Shut-In(1) |
| 75 | 49.47 | 108.39 | Open To Flow (2) |
| 133 | 95.40 | 110.83 | Shut-In(2) |
| 315 | 1134.81 | 109.60 | End Shut-In(2) |
| 318 | 1600.15 | 108.31 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 20.00 | GMCO 10%G, 70%O, 20%M | 0.28 |
| 200.00 | FREE OIL 95%O, 5%M | 2.81 |
| 0.00 | 55' GIP | 0.00 |
| | | |
| | | |

Gas Rates

| | Choke (Inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



**TRIBOLITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc Inc

1515 Wynkoop, Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

Schiller #1-23

23-17s-12w Barton KS

Job Ticket: 39530

DST#: 4

Test Start: 2010.07.30 @ 09:06:08

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 10:23:33
 Time Test Ended: 17:19:02

Test Type: **Conventional Straddle**
 Tester: **Brian Fairbank**
 Unit No: **41**

Interval: **3350.00 ft (KB) To 3360.00 ft (KB) (TVD)**
 Total Depth: **3468.00 ft (KB) (TVD)**
 Hole Diameter: **7.85 Inches** Hole Condition: **Fair**

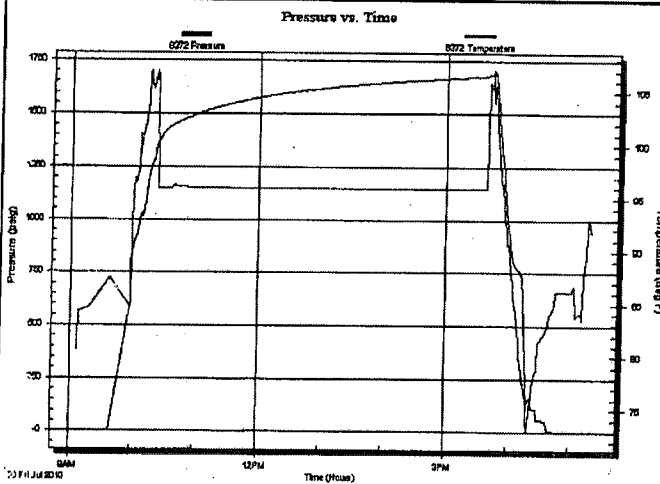
Reference Elevations: **1874.00 ft (KB)**
1866.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 8372 Below (Straddle)

Press@RunDepth: **psig @ 3377.00 ft (KB)**
 Start Date: **2010.07.30** End Date: **2010.07.30**
 Start Time: **09:06:33** End Time: **17:20:57**

Capacity: **8000.00 psig**
 Last Calib.: **2010.07.30**
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP - weak to fair blow 1/2" - 4 1/2"
 ISI - no blow back
 FFP - BOB 33 min.
 FSI -



PRESSURE SUMMARY

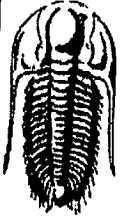
| Time (Mn.) | Pressure (psig) | Temp (deg F) | Annotation |
|------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 20.00 | GMCO 10%G, 70%O, 20%M | 0.28 |
| 200.00 | FREE OIL 95%O, 5%M | 2.81 |
| 0.00 | 55' GIP | 0.00 |
| | | |
| | | |

Gas Rates

| Choke (Inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc Inc

Schiller #1-23

1515 Wynkoop, Ste 700
Denver Co 80202

23-17s-12w Barton KS

Job Ticket: 39530

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2010.07.30 @ 09:06:08

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:23:33

Time Test Ended: 17:19:02

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 41

Interval: 3350.00 ft (KB) To 3360.00 ft (KB) (TVD)

Total Depth: 3468.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1874.00 ft (KB)

1866.00 ft (CF)

KB to GRCF: 8.00 ft

Serial #: 8371

Outside

Press@RunDepth: psig @ 3351.00 ft (KB)

Start Date: 2010.07.30

End Date:

2010.07.30

Capacity:

8000.00 psig

Start Time: 09:06:43

End Time:

17:21:07

Last Calib.:

2010.07.30

Time On Btm:

Time Off Btm:

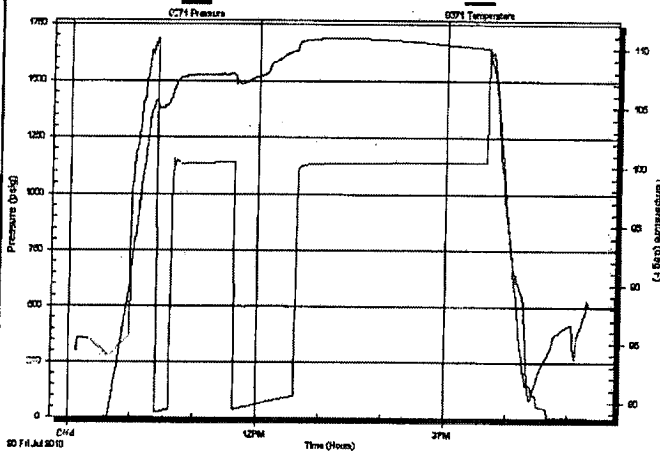
TEST COMMENT: IFP - weak to fair blow 1/2" - 4 1/2"

ISI - no blow back

FFP - BOB 33 min.

FSI -

Pressure vs. Time



PRESSURE SUMMARY

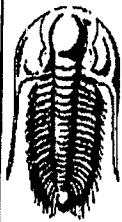
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
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| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 20.00 | GMCO 10%G, 70%O, 20%M | 0.28 |
| 200.00 | FREE OIL 95%O, 5%M | 2.81 |
| 0.00 | 55' GIP | 0.00 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (Inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |
| | | |
| | | |
| | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc Inc

Schiller #1-23

1515 Wynkoop, Ste 700
Denver Co 80202

23-17s-12w Barton KS

Job Ticket: 39530

DST#: 4

ATTN: Clayton Camozzi

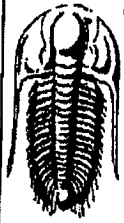
Test Start: 2010.07.30 @ 09:06:08

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3346.00 ft | Diameter: 3.80 inches | Volume: 46.94 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 |
| | | | Total Volume: 46.94 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 23.00 ft | | | String Weight: Initial 34000.00 lb |
| Depth to Top Packer: | 3350.00 ft | | | Final 34000.00 lb |
| Depth to Bottom Packer: | 3360.00 ft | | | |
| Interval between Packers: | 10.00 ft | | | |
| Tool Length: | 152.00 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 | | | 3328.00 | |
| Hydraulic tool | 5.00 | | | 3333.00 | |
| Jars | 5.00 | | | 3338.00 | |
| Safety Joint | 2.00 | | | 3340.00 | |
| Packer | 5.00 | | | 3345.00 | 27.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3350.00 | |
| Stubb | 1.00 | | | 3351.00 | |
| Recorder | 0.00 | 8647 | Inside | 3351.00 | |
| Recorder | 0.00 | 8371 | Outside | 3351.00 | |
| Perforations | 4.00 | | | 3355.00 | |
| Blank Off Sub | 1.00 | | | 3356.00 | |
| Blank Spacing | 4.00 | | | 3360.00 | 10.00 Tool Interval |
| Packer | 5.00 | | | 3365.00 | |
| Stubb | 1.00 | | | 3366.00 | |
| Perforations | 11.00 | | | 3377.00 | |
| Recorder | 0.00 | 8372 | Below | 3377.00 | |
| Bullnose | 3.00 | | | 3380.00 | |
| Blank Spacing | 95.00 | | | 3475.00 | 115.00 Bottom Packers & Anchor |
| Total Tool Length: | 152.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc Inc

Schiller #1-23

1515 Wynkoop, Ste 700
Denver Co 80202

23-17s-12w Barton KS

Job Ticket: 39530 DST#: 4

ATTN: Clayton Camozzi

Test Start: 2010.07.30 @ 09:06:08

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: | ppm |
| Viscosity: 46.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 12.77 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 9500.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

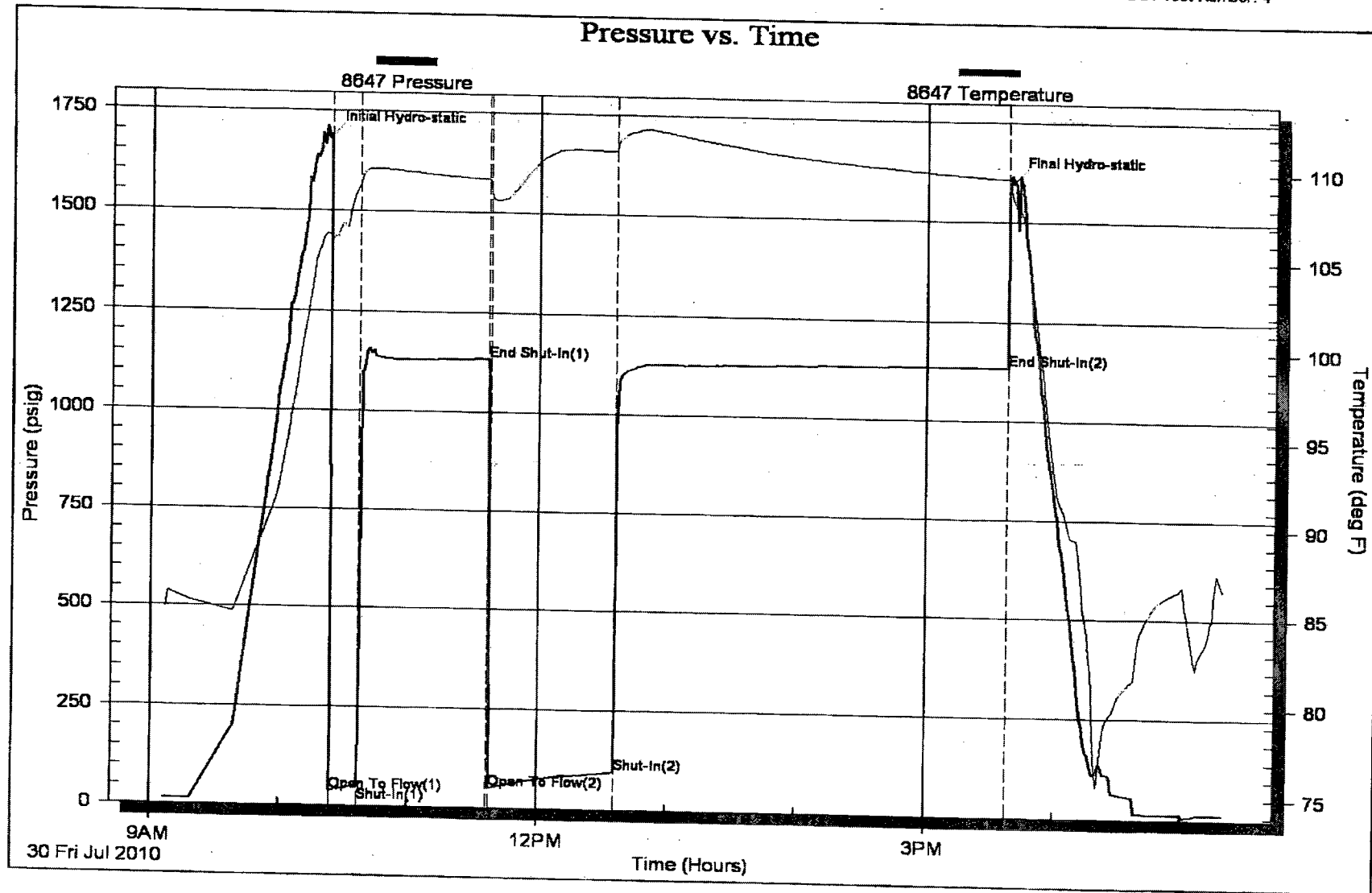
| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 20.00 | GMCO 10%G, 70%O, 20%M | 0.281 |
| 200.00 | FREE OIL 95%O, 5%M | 2.805 |
| 0.00 | 55' GP | 0.000 |

Total Length: 220.00 ft Total Volume: 3.086 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

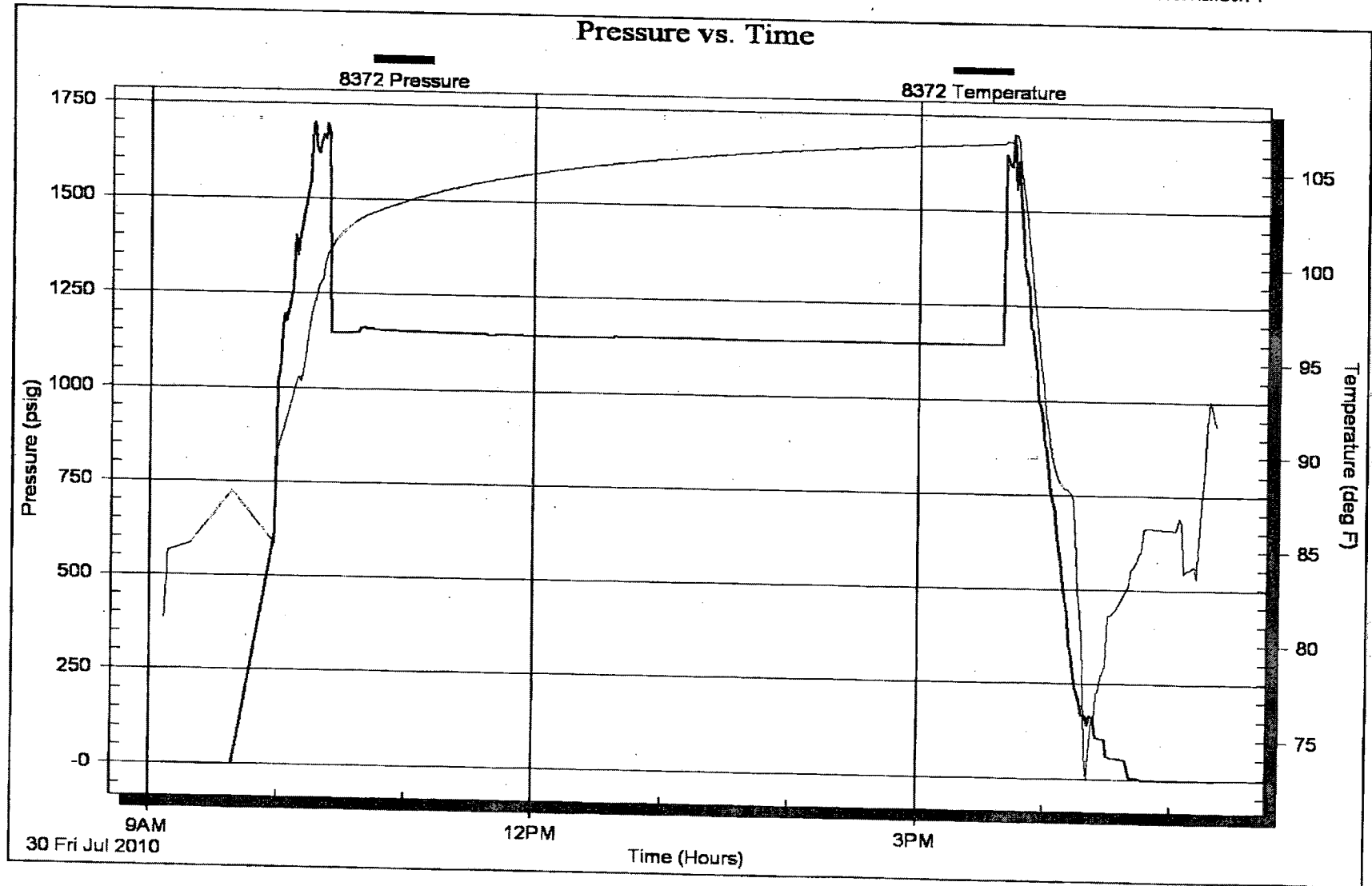


Serial #: 8372

Below (Straddle) Gary Jr. & Assoc Inc

23-17s-12w Barton KS

DST Test Number: 4

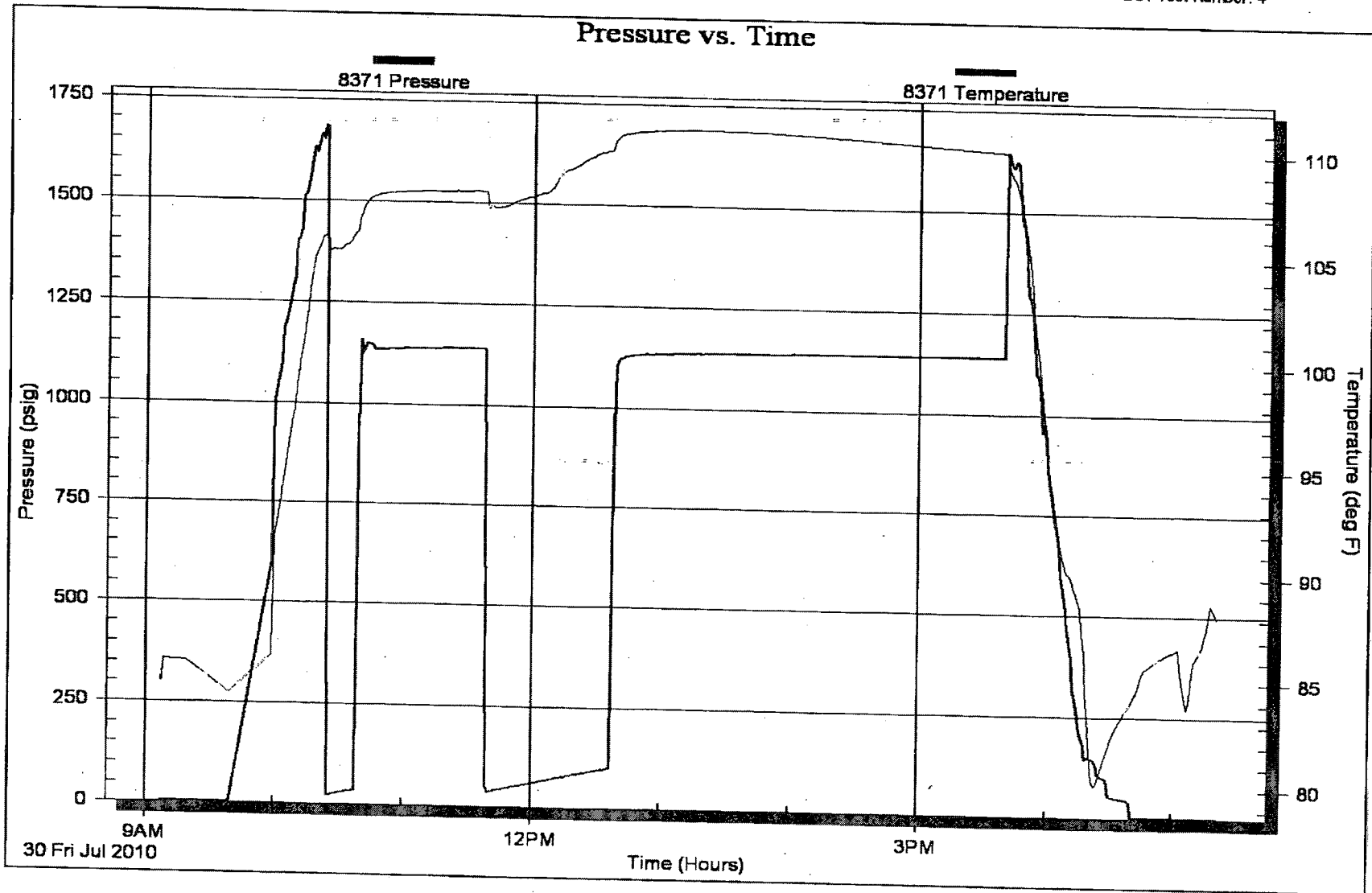


Serial #: 8371

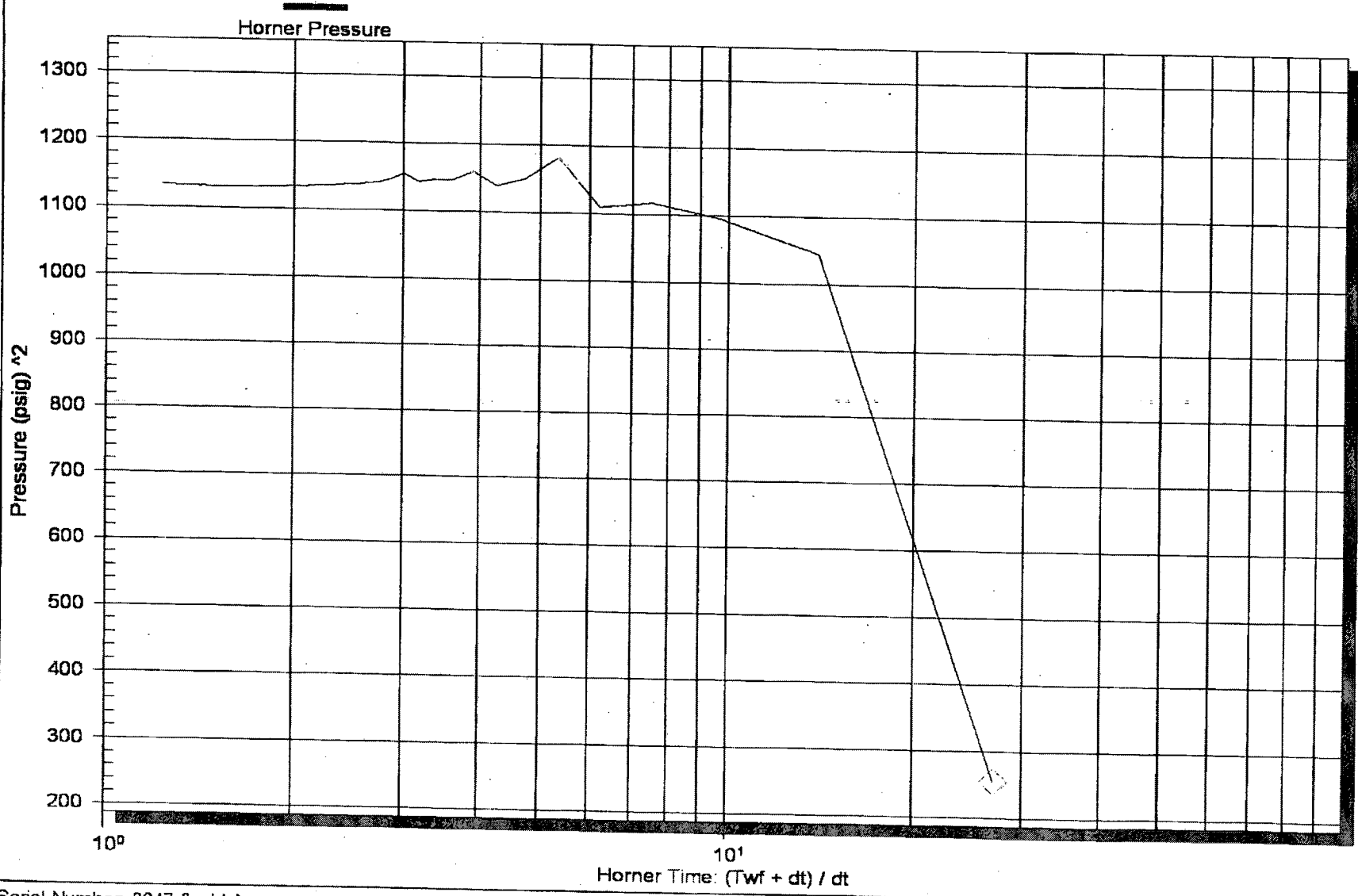
Outside Samuel Gary Jr. & Assoc Inc

23-17s-12w Barton KS

DST Test Number: 4



Horner Plot



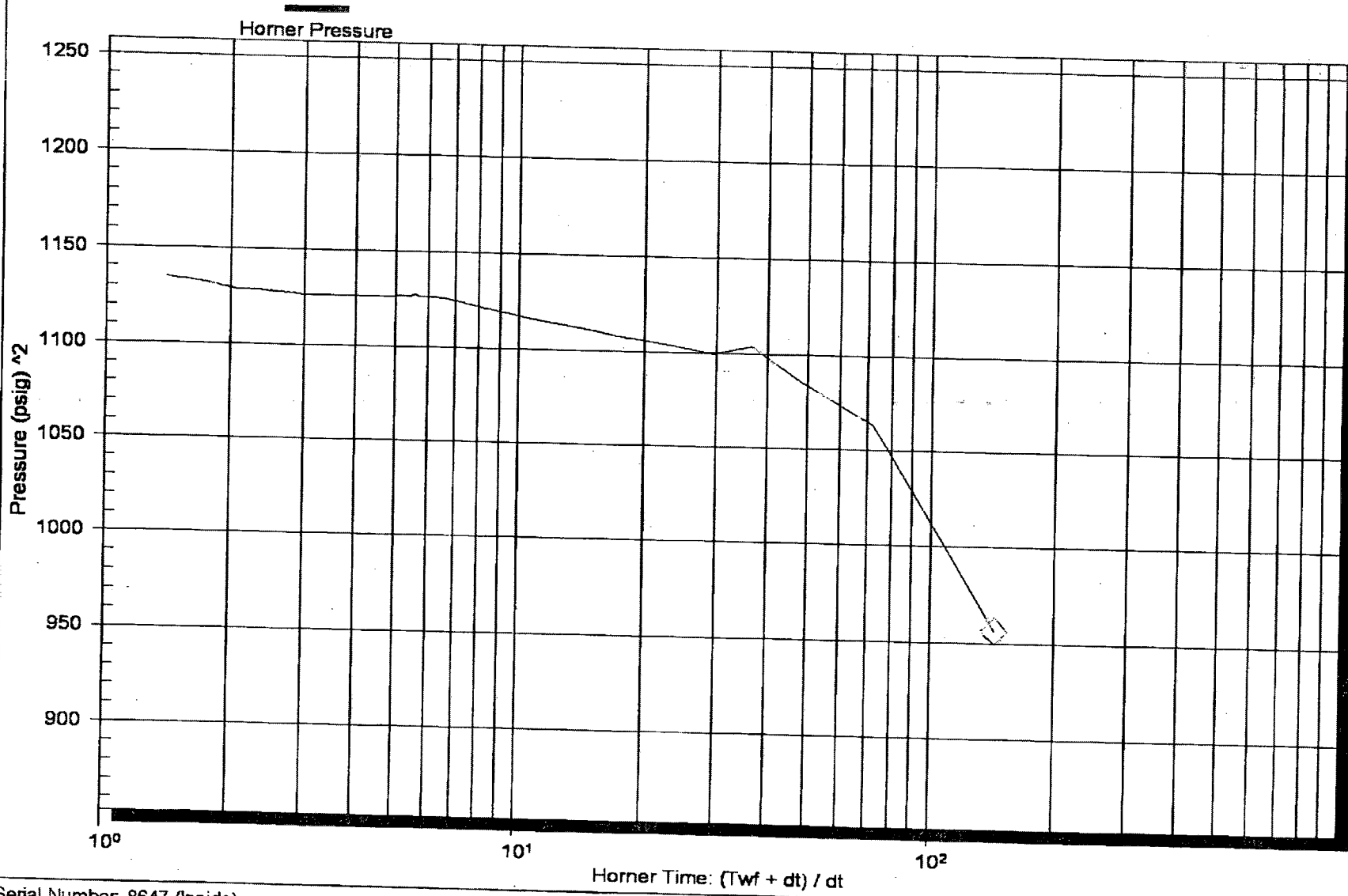
Serial Number: 8647 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



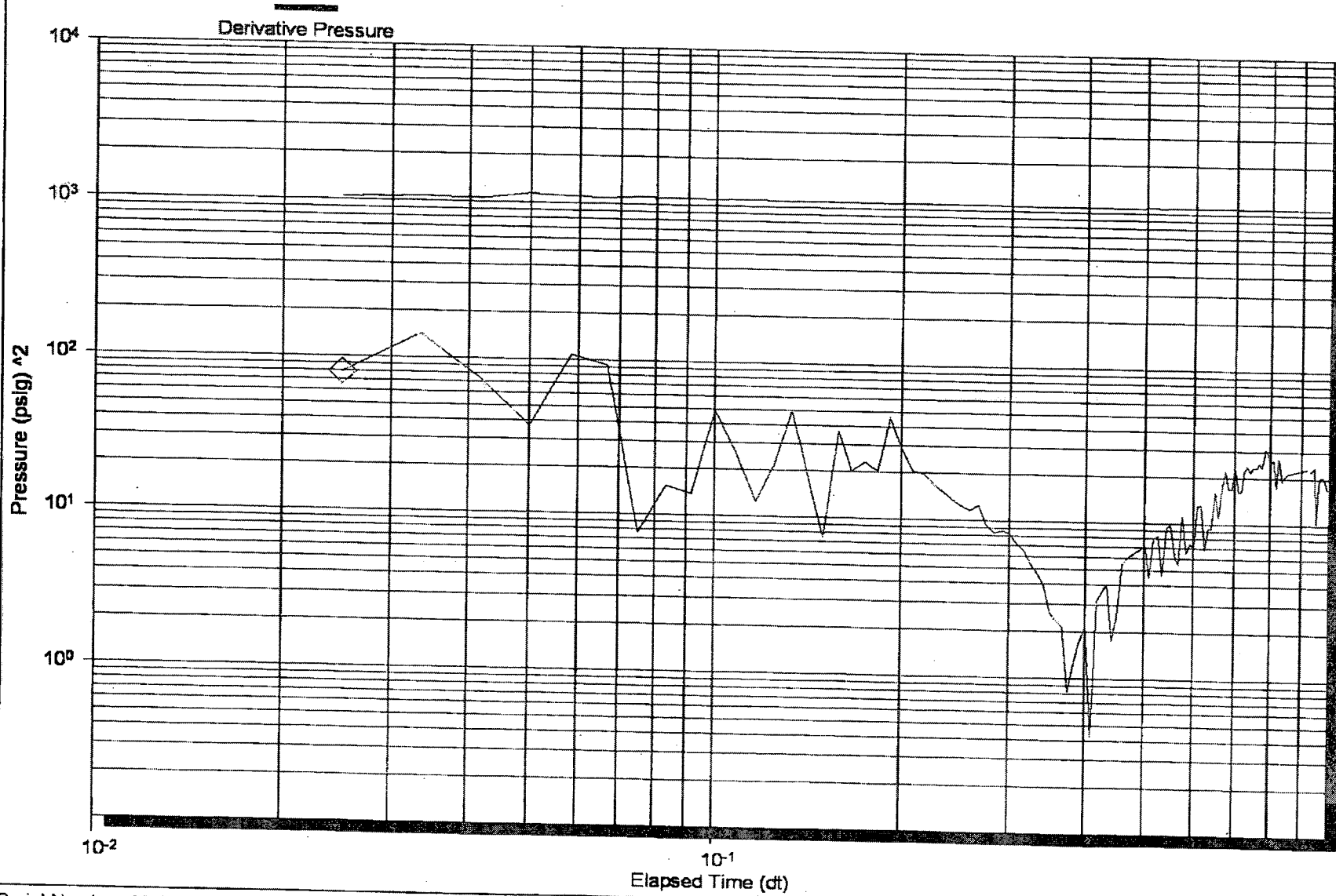
Serial Number: 8647 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 2

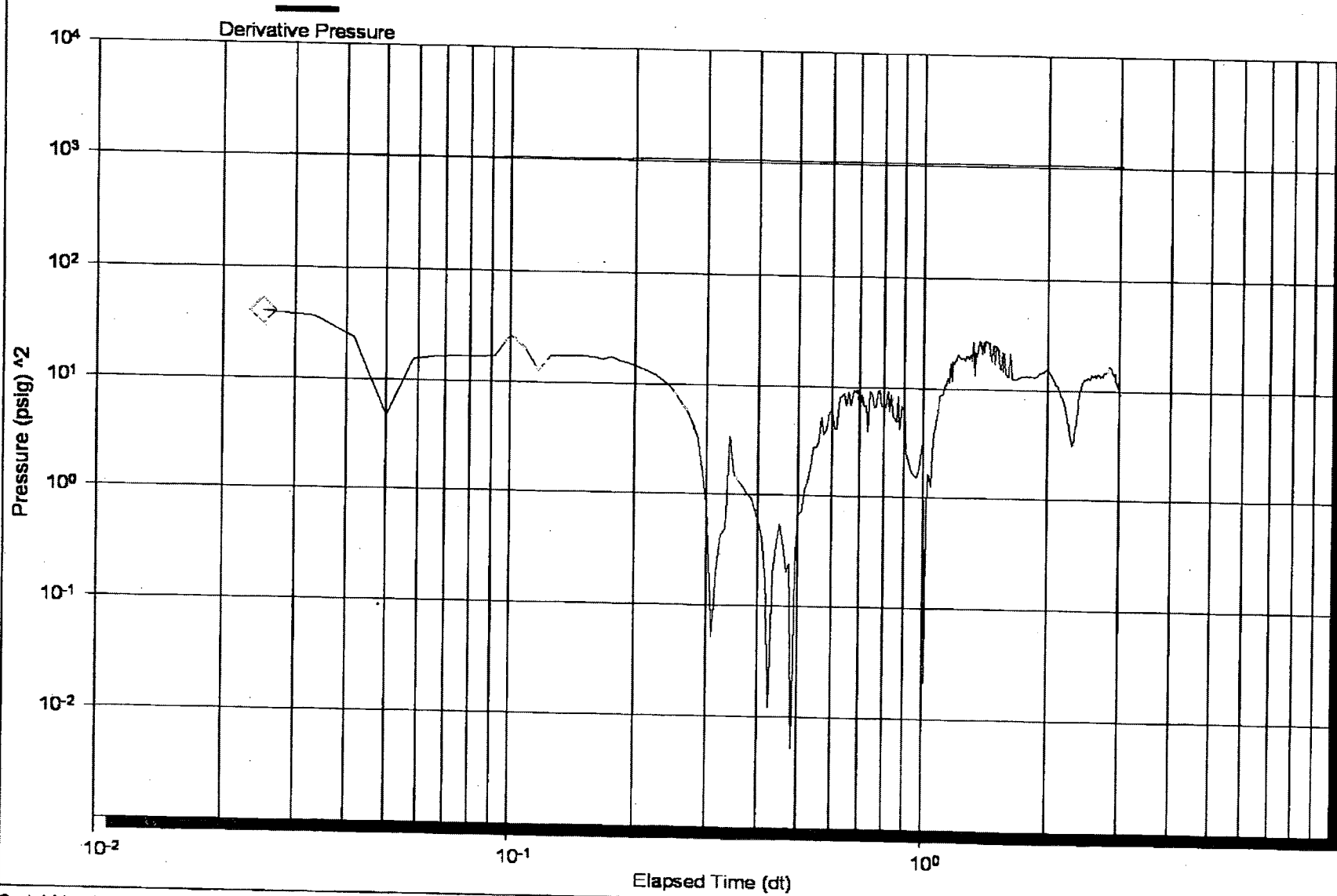
Log-Log and Pseudo-Derivative



Serial Number: 8647 (Inside)

Flow Cycle: 1

Log-Log and Pseudo-Derivative



Serial Number: 8647 (Inside)

Flow Cycle: 2



| | | |
|-----------------------------------|--------------------|----------------------------|
| PAGE 1 of 1 | CUST NO 1003682 | INVOICE DATE 07/27/2010 |
| INVOICE NUMBER 1718 - 90368750 | | |

Pratt (620) 672-1201
 B SAMUEL GARY JR. & ASSOCIATES
 I PO Box: 448
 L RUSSELL
 T KS US 67665
 O ATTN:

J LEASE NAME Schiller 1-23
 O LOCATION
 B COUNTY Barton
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

| JOB # | EQUIPMENT # | PURCHASE ORDER NO. | TERMS | DUE DATE |
|----------|-------------|--------------------|---------------|------------|
| 40210157 | 20920 | | Net - 30 days | 08/26/2010 |

For Service Dates: 07/24/2010 to 07/24/2010

0040210157

171802122A Cement-New Well Casing/Pi 07/24/2010
 Surface

| | QTY | U of M | UNIT PRICE | INVOICE AMOUNT |
|--|----------|--------|------------|----------------|
| Common | 300.00 | EA | 10.08 | 3,023.79 T |
| Cello-flake | 75.00 | EA | 2.33 | 174.81 T |
| Calcium Chloride | 564.00 | EA | 0.66 | 373.06 T |
| Wooden Cement Plug 8 5/8" | 1.00 | EA | 100.79 | 100.79 |
| Centralizer, 8 5/8" (Blue) | 2.00 | EA | 56.70 | 113.39 |
| 8 5/8" Basket (Blue) | 1.00 | EA | 198.44 | 198.44 |
| Unit Mileage Charge-Pickups, Vans & Cars | 75.00 | HR | 2.68 | 200.80 |
| Heavy Equipment Mileage | 150.00 | MI | 4.41 | 661.45 |
| Proppant and Bulk Delivery Charges | 1,058.00 | MI | 1.01 | 1,066.39 |
| Depth Charge; 0-500' | 1.00 | HR | 629.96 | 629.96 |
| Blending & Mixing Service Charge | 300.00 | MI | 0.88 | 264.68 |
| Plug Container Utilization Charge | 1.00 | EA | 157.49 | 157.49 |
| Service Supervisor | 1.00 | HR | 110.24 | 110.24 |
| High Head Charge | 1.00 | EA | 188.99 | 188.99 |

AUG 04 2010

DRLG COMP W/O LOE

AFE #

ACCT #

APPROVED BY

PLEASE REMIT TO:

SEND OTHER CORRESPONDENCE TO:

BASIC ENERGY SERVICES, LP
 PO BOX 841903
 DALLAS, TX 75284-1903

BASIC ENERGY SERVICES, LP
 PO BOX 10460
 MIDLAND, TX 79702

SUB TOTAL 7,264.18
 TAX 260.73
 INVOICE TOTAL 7,524.91



BASIC
ENERGY SERVICES

PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 02122 A

DATE _____ TICKET NO _____

| DATE OF JOB: 7-24-10 | DISTRICT: Pratt | NEW WELL <input checked="" type="checkbox"/> | OLD WELL <input type="checkbox"/> | PROD <input type="checkbox"/> | INJ <input type="checkbox"/> | WDW <input type="checkbox"/> | CUSTOMER ORDER NO | | |
|---------------------------------------|-----------------------------|--|-----------------------------------|-------------------------------|------------------------------|------------------------------|-------------------|-------|-------|
| CUSTOMER: Sambaugh Tank & Assoc. Inc. | LEASE: Schiller | WELL NO: 1-0 | | | | | | | |
| ADDRESS: | COUNTY: Barber | STATE: KS | | | | | | | |
| CITY: | STATE: | SERVICE CREW: [unclear] | | | | | | | |
| AUTHORIZED BY: | JOB TYPE: C.N.O. - Sambaugh | | | | | | | | |
| EQUIPMENT# | HRS | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED | DATE | AM/PM | TIME |
| 77985 | 1 | | | | | | | | 11:00 |
| 33708-20700 | 1 | | | | | | | | 1:00 |
| 12831-17862 | 1 | | | | | | | | 3:00 |
| | | | | | | | | | 4:00 |
| | | | | | | | | | 11:00 |
| | | | | | | MILES FROM STATION TO WELL | 7.0 | | |

CONTRACT CONDITIONS. (This contract must be signed before the job is commenced or merchandise is delivered)

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP

SIGNED _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF NO | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
|-------------------|---------------------------------------|------|----------|------------|-----------|
| PEP 100 | Cement | | 3000 | | 4200.00 |
| PEP 102 | Collar pipe | | 200 | | 277.50 |
| PEP 109 | Calc on collar pipe | | 400 | | 592.50 |
| PEP 157 | Wood + Cement + Oil 2 1/2 | | 100 | | 160.00 |
| PEP 1753 | Cement + Oil 2 1/2 | | 200 | | 180.00 |
| PEP 1903 | Power 3/4" | | 100 | | 515.00 |
| PE 100 | Power 1/2" | | 200 | | 312.75 |
| PE 101 | Power 3/4" | | 150 | | 1050.00 |
| PE 113 | Power 1/2" | | 1050 | | 1152.00 |
| PE 200 | Power 1/2" | | 100 | | 1000.00 |
| PE 240 | Power 3/4" | | 300 | | 420.00 |
| PE 254 | Power 1/2" | | 100 | | 350.00 |
| PE 200 | Power 1/2" | | 100 | | 170.00 |
| PE 203 | Power 1/2" | | 120 | | 300.00 |
| | | | | | 7264.75 |

SUB TOTAL: 7264.75

CHEMICAL / ACID DATA

| | | |
|---------------------|------------|--|
| SERVICE & EQUIPMENT | %TAX ON \$ | |
| MATERIALS | %TAX ON \$ | |

TOTAL

SERVICE REPRESENTATIVE: [Signature]

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



energy services, L.P.

TREATMENT REPORT

| | | | | | |
|-------------------------------|----------------------|-------------------|---------------------------------|--------------------|----------------|
| Customer: <i>San Geronimo</i> | | Lease No. | | Date | |
| Lease: <i>Schiller</i> | | Well # <i>1-2</i> | | <i>7-24-11</i> | |
| Field Order # | Station <i>Pratt</i> | Casing | Depth | County <i>B...</i> | State <i>K</i> |
| Type Job <i>C.N.W. - ...</i> | Formation | | Legal Description <i>9317-1</i> | | |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|-----------------|--------------|------------------|----|---------------------|------------|------------------|------------------|--|
| Casing Size | Tubing Size | Shots/Ft | | Acid <i>30% HCl</i> | RATE | PRESS | ISIP | |
| Depth | Depth | From | To | Pre Pad | Max | | 5 Min. | |
| Volume | Volume | From | To | Pad | Min | | 10 Min. | |
| Max Press | Max Press | From | To | Frac | Avg | | 15 Min. | |
| Well Connection | Annulus Vol. | From | To | | HHP Used | | Annulus Pressure | |
| Plug Depth | Packer Depth | From | To | Flush <i>24</i> | Gas Volume | | Total Load | |

| | | | | | | | | |
|-------------------------|-------------------|------------------|----------------------------------|------------|--|-----------------------|--|--|
| Customer Representative | | | Station Manager <i>Don Scott</i> | | | Treater <i>Mike C</i> | | |
| Service Units | <i>33700/2000</i> | <i>1500/1000</i> | | | | | | |
| Driver Names | <i>...</i> | <i>...</i> | <i>...</i> | <i>...</i> | | | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|--------------|-----------------|-----------------|--------------|-----------|------------------|
| <i>10:00</i> | | | | | <i>Water ...</i> |
| | | | | | <i>...</i> |
| | | | <i>3</i> | <i>5</i> | <i>...</i> |
| <i>3:21</i> | <i>200</i> | | <i>1-1</i> | <i>5</i> | <i>...</i> |
| | | | <i>0</i> | <i>5</i> | <i>...</i> |
| <i>3:21</i> | <i>200</i> | | <i>7</i> | <i>4</i> | <i>...</i> |
| <i>4:00</i> | <i>200</i> | | <i>24</i> | <i>11</i> | <i>...</i> |



| | | |
|-----------------------------------|--------------------|----------------------------|
| PAGE 1 of 1 | CUST NO 1003682 | INVOICE DATE 08/02/2010 |
| INVOICE NUMBER 1718 - 90374380 | | |

Pratt (620) 672-1201

B SAMUEL GARY JR. & ASSOCIATES
 I ~~1670 BROADWAY STE 3300~~ PDBox 448
 L DENVER Russell, KS
 T ~~CO US 80202~~ 67665
 O ATTN:

J LEASE NAME Schiller 1-23
 O LOCATION
 B COUNTY Barton
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

| | | | | |
|-------------------|----------------------|--------------------|------------------------|------------------------|
| JOB # 40212858 | EQUIPMENT # 19842 | PURCHASE ORDER NO. | TERMS Net - 30 days | DUE DATE 09/01/2010 |
|-------------------|----------------------|--------------------|------------------------|------------------------|

For Service Dates: 07/31/2010 to 07/31/2010

0040212858

171802256A Cement-New Well Casing/Pi 07/31/2010
P.T.A.

| | QTY | U of M | UNIT PRICE | INVOICE AMOUNT |
|--|--------|--------|------------|----------------|
| 60/40 POZ | 185.00 | EA | 7.56 | 1,398.60 T |
| Cello-flake | 47.00 | EA | 2.33 | 109.56 T |
| Cement Gel | 320.00 | EA | 0.16 | 50.40 T |
| Wooden Cement Plug 8 5/8" | 1.00 | EA | 100.80 | 100.80 |
| Unit Mileage Charge-Pickups, Vans & Cars | 75.00 | HR | 2.68 | 200.81 |
| Heavy Equipment Mileage | 150.00 | MI | 4.41 | 661.50 |
| Proppant and Bulk Delivery Charges | 600.00 | MI | 1.01 | 604.80 |
| Depth Charge; 3001-4000' | 1.00 | HR | 1,360.80 | 1,360.80 |
| Blending & Mixing Service Charge | 185.00 | MI | 0.88 | 163.17 |
| Service Supervisor | 1.00 | HR | 110.25 | 110.25 |

DRLG COMP W/O LOE
 AFE # _____
 ACCT. # 8000-138
 APPROVED BY [Signature]

RECEIVED

AUG 23 2010

SAMUEL GARY JR.
& ASSOCIATES, INC.

PLEASE REMIT TO:

BASIC ENERGY SERVICES, LP
 PO BOX 841903
 DALLAS, TX 75284-1903

SEND OTHER CORRESPONDENCE TO:

BASIC ENERGY SERVICES, LP
 PO BOX 10460
 MIDLAND, TX 79702

SUB TOTAL

4,760.69

TAX

113.77

INVOICE TOTAL

4,874.46



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 02238 A

DATE _____ TICKET NO _____

| | | | | | | | | | | |
|---------------------------------------|-----|--|-----|---------------|-----|----------------------------|---------|----|----|-------|
| DATE OF JOB 7-31-10 DISTRICT Kansas | | NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO | | | | | | | | |
| CUSTOMER Sam Buryor & Associates, Inc | | LEASE SPILLER | | WELL NO 1-2-3 | | | | | | |
| ADDRESS | | COUNTY Barton 23-17-10 STATE Mo | | | | | | | | |
| CITY STATE | | SERVICE CREW (WENTZ, JENSEN, SPIC) | | | | | | | | |
| AUTHORIZED BY | | JOB TYPE P+P CNU | | | | | | | | |
| EQUIPMENT# | HRS | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED | DATE | AM | PM | TIME |
| 04543 PU | 3 | | | | | | 7-31-10 | | | 11:00 |
| 19900/19918 | 3 | | | | | | | | | |
| | | | | | | ARRIVED AT JOB | | | | |
| | | | | | | START OPERATION | 7-31-10 | | | 10:00 |
| | | | | | | FINISH OPERATION | 7-31-10 | | | 12:00 |
| | | | | | | RELEASED | 7-31-10 | | | 2:00 |
| | | | | | | MILES FROM STATION TO WELL | 75 mi | | | |

CONTRACT CONDITIONS (This contract must be signed before the job is commenced or merchandise is delivered)

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF NO | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
|-------------------|---------------------------------------|------|----------|------------|-----------|
| PP 103 | WOLVOFC2 | SK | 105 | | 2820 - |
| CC 102 | CELL-FLAME | lb | 47 | | 175.00 |
| CC 200 | CEMENT GEL | lb | 330 | | 80.00 |
| FA 153 | HYDROLYZANT TRL 2 1/2" 100' | EA | 1 | | 160.00 |
| E 100 | PICKUP MILEAGE | MILE | 75 | | 30.75 |
| E 101 | WELL/EQUIPMENT MILEAGE | MILE | 150 | | 1,050.00 |
| E 113 | BLU/DEWATER CHARGE | TRD | 1000 | | 100.00 |
| E 204 | DEPTH CHARGE 3' @ 4000' | MPS | 1-0 | | 2,000.00 |
| E 310 | BLENDED SERVICE CHARGE | SK | 125 | | 207.50 |
| E 413 | SERVICE CONTRACTOR | EA | 1 | | 175.00 |

CHEMICAL / ACID DATA

SUB TOTAL 4700.00

SERVICE & EQUIPMENT %TAX ON \$
MATERIALS %TAX ON \$

TOTAL

SERVICE REPRESENTATIVE

Allen F. ...

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY

Frank ...

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

BASIC

energy services, L.P.

TREATMENT REPORT

| | | | | |
|---|----------------------------|-----------------------|--------------------------------------|-------------------------|
| Customer SAM GARY JAYASCO INC | | Lease No. | Date 7-31-10 | |
| Lease Schiller | | Well # 1-23 | | |
| Field Order # 02256A | Station Pratt KS | Casing | Depth | County Darton |
| Type Job PTA | Formation | | Legal Description 23-17-12 | |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|-----------------|-----------------------------|------------------|------------|------------|-------------------------|------------------|-------------|------------------|
| Casing Size | Tubing Size 4 1/2 | Shots/Ft | 185 | Acid | 25 SKS 60/40 P02 | RATE | PRESS | JSIP |
| Depth | Depth | From | To | Pre Pad | 1/4 cell | Max | 13.7 | 5 Min. |
| Volume | Volume | From | To | Pad | | Min | | 10 Min. |
| Max Press | Max Press | From | To | Frac | | Avg | | 15 Min. |
| Well Connection | Annulus Vol. | From | To | | | HHP Used | | Annulus Pressure |
| Plug Depth | Packer Depth | From | To | Flush | | Gas Volume | | Total Load |

| | | |
|---|----------------------------------|----------------------------------|
| Customer Representative FRANK | Station Manager scotty | Treater Allen F. Worth |
| Service Units | Driver Names | |
| 28443 | Wright | |
| 19889 | Kerwan | |
| 19842 | Lasley | |
| 19960 | Eric | |
| 19918 | wright | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|----------|-----------------|-----------------|--------------|------|---|
| 4:30 PM | | | | | on Loc. Discuss Safety Set up PTA Job |
| 9:30 | | | | | Pulling DST. Then wait on orders |
| 10:40 | | | 10 | 5 | Start Back in Hole To Plug well |
| | | | 6 1/2 | 5 | 1st Plug @ 3329 - Pump 10 Bbls H2O |
| | | | 3 | 4 | mix + pump 25 SKS 60/40 P02 - 4% gel @ 13.7 |
| | | | | | Pump 3 Bbls H2O |
| | | | | | Pump 43 Bbls mud |
| 12:10 | | | 10 | 5 | Pull O.P To 725' 25 SKS 60/40 P02 |
| | | | 6 1/2 | 5 | D. P. 725' Pump 10 Bbls H2O |
| | | | 3 | 4 | mix + Pump 25 SKS |
| | | | | | Pump 3 Bbls H2O + 6 Bbls mud |
| 12:30 PM | | | 5 | 5 | Pull O.P to 4140' 20 SKS 60/40 4% gel |
| | | | 20 | 5 | Pump 5 Bbls H2O |
| | | | 2 | 3 | mix + pump 80 SKS |
| | | | | | Pump 2 Bbls H2O |
| 1:00 | | | 2 1/2 | | Go To surface 10 SKS 60/40 4% gel |
| 1:05 | | | 7 1/2 | | Plug RN w/ 30 SKS 60/40 4% gel |
| 1:10 | | | 3 3/4 | | Plug MH w/ 15 SKS 60/40 4% gel |
| | | | | | washing equipment & Breakup. |
| 2:00 | | | | | Job complete |
| | | | | | Thanks Allen Kerwan Eric |



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

November 23, 2010

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

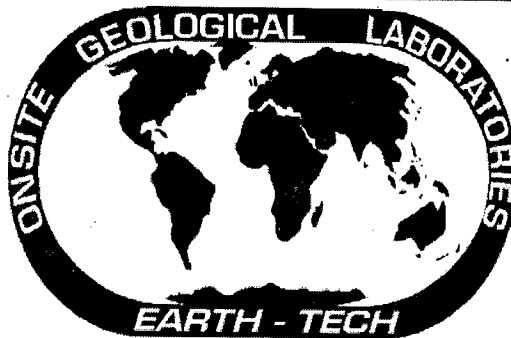
Re: ACO1
API 15-009-25453-00-00
SCHILLER 1-23
NW/4 Sec.23-17S-12W
Barton County, Kansas

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,
CLAYTON CAMOZZI



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

Well Name: Schiller 1-23
Location: Sec 23-17s-12w Barton co Kansas
License Number: API 15-009-25453-00-00
Spud Date: 7-24-2010
Surface Coordinates: 1980 FNL, 1980 FWL
Region: WILDCAT
Drilling Completed: 07/29/2010

Bottom Hole Coordinates:

Ground Elevation (ft): 1857' K.B. Elevation (ft): 1867'
Logged Interval (ft): 2220' To: 3470' Total Depth (ft): 3470'
Formation: Lansing, Arbuckle
Type of Drilling Fluid:

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

OPERATOR

Company: Samuel Gary Jr, & Assoc.
Address: 1515 Wynkoop, Ste.# 700
Denver, Colo. 80202
Geo: Claton Camozzi

GEOLOGIST

Name: RODNEY NAPIER/ TYLER SARYERWINNIE
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 620-655-2050

Circulation Report

CFS/CTCH 3170 1.5 HR, SHORT TRIP TO COLLORS, CTCH 3170 1 HR, RTN TO DRILLING 6:00 PM, CFS 3103 20 40 60 TOTAL 1.5 HR, CFS 3120 20 40 60 TOTAL 1.5 HR, DROP SURVEY, TOH DST#1 3070-3120', CTCH 1 HR, RIG HAD POWERPLANT DOWN 1/4 HR, RTN TO DRILLING 9:22 AM, STOP @3130 TO INSPECT MUD PUMP, CF 3230 15 MIN, CFS 3340 15 30 45 60, CFS 3353 20 40 60 TOTAL 1.5 HR, CFS 3359 20 40 60, CFS 3367 20 40 60, TOH DST#2 3367, TIH CCH 30 MIN AFTER DST #2, DRILL TO TD 3470, CTCH 1.00 HR, TOH FOR LOGS

DST information

DST # 1, 3070-3120, ANCHOR 50', IFP SURFACE BLOW DIED IN 5 MIN, ISIP NO BLOW, FFP NO BLOW, FSIP NO BLOW, RECOVERY 5 FEET OF MUD W SHOW OF OIL, BHT 102, IH 1453, FIF 22, FFF 24, ISI 52, SIF 18, SFF 21, FSI 31, FH 1432, TIMES: 15, 60, 15, 60

DST#2 3350-3367, ANCHOR 17', IFP STRONG BLOW IN 2 MIN, ISIP NO BLOW BACK, FFP BOB IN 3 MIN, FSIP NO BLOW, RECOVERY 60' OF VSOCW, RECOVERY 60' OF MOCW, RECOVERY 800' OF WCO, BHT 109, CLORIDES 18000 PPM, IH 1640, FIF 66, FFF 193, ISI 1133, SIF 199, SFF 394, FSI 1133, FH 1603, TIMES: 10, 60, 20, 90

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 | | Lms |
| | Congl | | Shale | | Dtd | | |
| | Dol | | Shcol | | Gry sh | | |



ACCESSORIES

| | | | | | | | |
|----------------|----------|---------------|----------|-----------------|----------|----------------|----------|
| MINERAL | | Salt | | Fossil | | Clystn | |
| | Anhy | | Sandy | | Gastro | | Dol |
| | Arggrn | | Silt | | Oolite | | Grysh |
| | Arg | | Sil | | Ostra | | Gryslt |
| | Bent | | Sulphur | | Pelec | | Lms |
| | Bit | | Tuff | | Pellet | | Sandylms |
| | Brecfrag | | Chlorite | | Pisolite | | Sh |
| | Calc | | Dol | | Plant | | Sltstn |
| | Carb | | Sand | | Strom | | |
| | Chtdk | | Silty | | Fuss | | |
| | Chtlt | | | | Oomold | | |
| | Dol | FOSSIL | | STRINGER | | TEXTURE | |
| | Feldspar | | Algae | | Anhy | | Boundst |
| | Ferrpel | | Amph | | Arg | | Chalky |
| | Ferr | | Belm | | Bent | | Cryxln |
| | Glau | | Bioclst | | Coal | | Earthy |
| | Gyp | | Brach | | Dol | | Finexln |
| | Hvymin | | Bryozoa | | Gyp | | Grainst |
| | Kaol | | Cephal | | Ls | | Lithogr |
| | Marl | | Coral | | Mrst | | Microxln |
| | Minxl | | Crin | | Sltstrg | | Mudst |
| | Nodule | | Echin | | Ssstrg | | Packst |
| | Phos | | Fish | | Carbsh | | Wackest |
| | Pyr | | Foram | | | | |







OTHER SYMBOLS

| | | | | | | |
|----------------------|-----------------|--|----------|------------------|--|----------|
| POROSITY TYPE | SORTING | | Angular | INTERVALS | | Core |
| | | | Even | | | Dst |
| | | | Spotted | | | |
| | | | Ques | EVENTS | | Rft |
| | | | Dead | | | Sidewall |
| | ROUNDING | | Gas show | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Curve Track 1

ROP (min/ft) 
Gamma (API) 

TG, C1-C5

TG (units) 
C1 (units) 
C2 (units) 
C3 (units) 
C4 (units) 
C5 (units) 

Depth

Lithology

Oil Shows

Geological Descriptions

ROP (min/ft) 0 5
Gamma (API) 3 3000

DRILLING
CONTRACTOR:
SOUTHWIND 1

SURFACE CASING 8"
5/8" SET @ 391.55

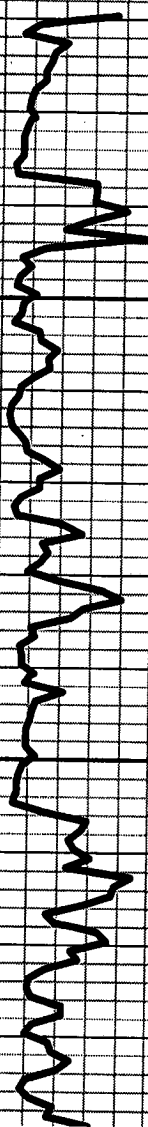
21

2200

ROP (min/ft) 0 5
Gamma (API) 3 3000

2250

2300

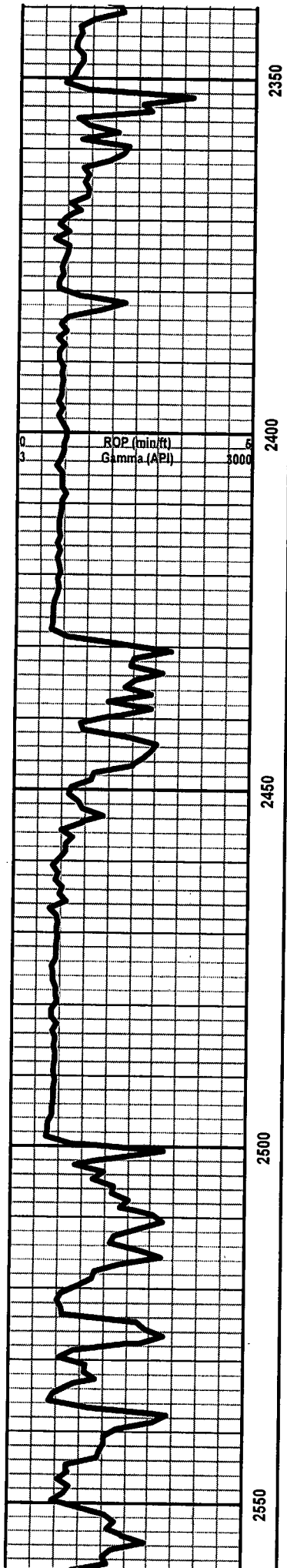


TG, C1-C5 10 100 10

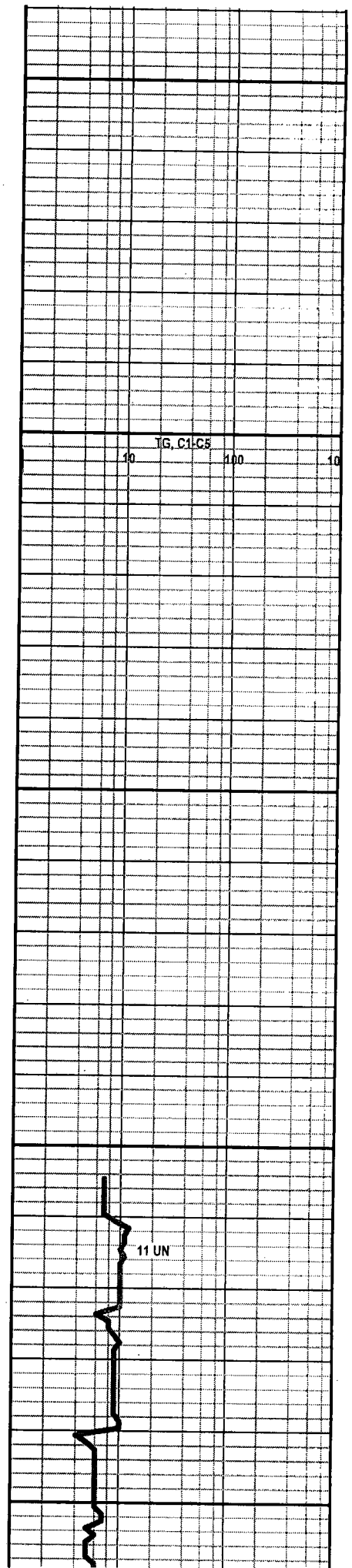
DRILLING
CONTRACTOR:
SOUTHWIND 1

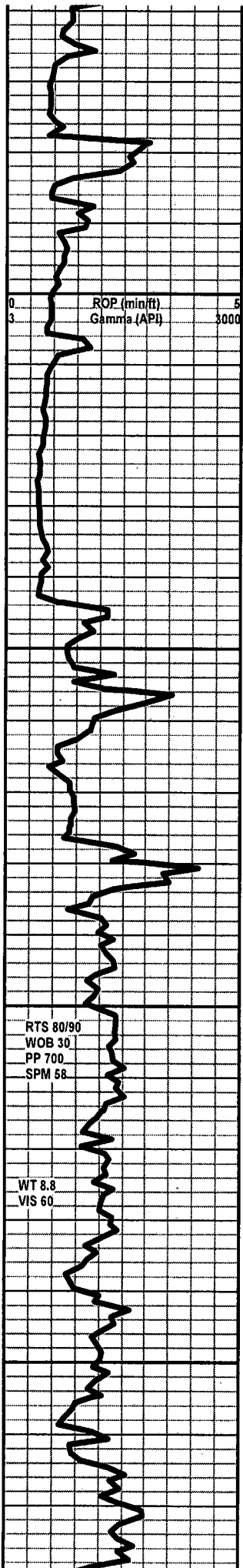
SURVEYS
STRAP 3120 .18 SHORT
DROP 393.5 OFF
DROP 3120 1.5 OFF

TG, C1-C5 10 100 10



BASE ROOT SHALE 2428' -561'





2600
2650
2700
2750



START 1 MAN LOGGING UNIT 07/26/10

HOWARD 2644' -777'

LS DK TN TO TN CRM BUFF HD DN BRITT FN XLN MTX
TR PYR NODULE IN TRAY DISS GRY SH IP NO FLO NO
VIS POR NO VIS SHOW

SH DK GRY TO GRY SLTLY FRM SFT SILTY

TOPEKA 2677' -810'

LS DK GRY DK TN TO TN HD DN TT CRYPTO XLN MTX
NO FLO NO VIS POR NO VIS SHOW

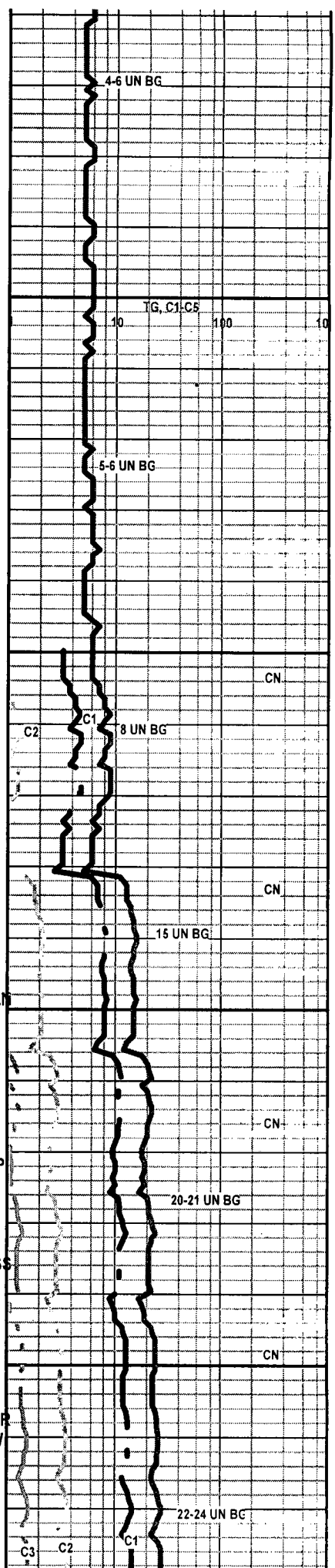
LS GRY TN LT TN BUFF MOTT IP HD DN VFN TO FN XLN
MTX TR IMBD FOSS IP SUB-CHLKY IP NO FLO POSS TT
INTERXLN POR NO CUT NO VIS SHOW

2700' @ 00:01 AM 07/27/10

LS GRY TN LT TN BUFF HD TO FRM BRITT VFN TO FN
XLN MTX TR IMBD FOSS TR IMBD PYR IP SUB-CHLKY IP
NO FLO NO VIS POR NO VIS SHOW

SH GRY TO BRN FRM BLKY TO LMY WITH TR IMBD FOSS
IP

LS GRY TN LT TN CRM BUFF HD TO FRM BRITT VFN TO
FN XLN MTX RE-XLN MTX SUCRO TXT WITH IMBD VISM
LS GRNS TR IMBD CALC XLS IP POSS TT INTERXLN POR
TO TR MICRO PP POR IP NO FLO NO CUT NO VIS SHOW



ROP (min/ft)
Gamma (API)

RTS 80/90
WOB 30
PP 700
SPM 58

WT 8.8
VIS 60

4-6 UN BG

TG, C1, C5

5-6 UN BG

CN

8 UN BG

CN

15 UN BG

CN

20-21 UN BG

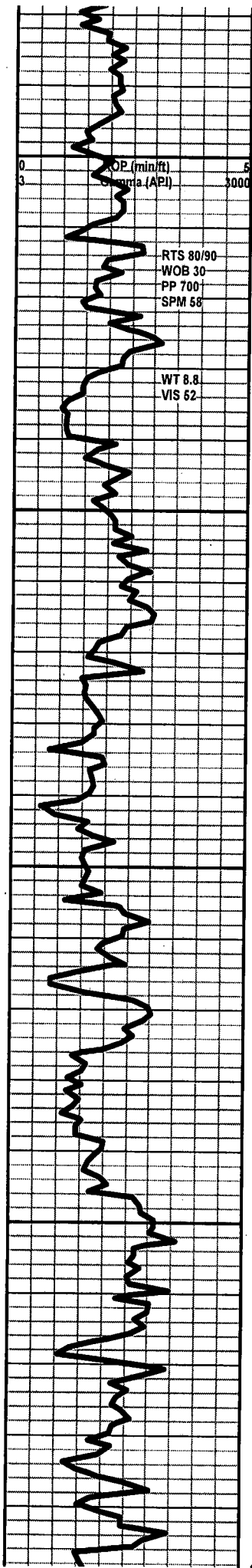
CN

22-24 UN BG

C3

C2

C1



2800
2850
2900
2950



LS DK TN TO TN BUFF MOTT HD DN VVFN TO FN XLN
MTX TR IMBD GRY SH IP NO FLO NO VIS POR NO VIS
SHOW

SH BLK CARB

LS DK GRY DK TN HD DN TT CRYPTO XLN MTX NO FLO
NO VIS POR NO VIS SHOW

SH GRY LT GRY SLTLY FRM BLKY TO WAXY TXT

LE COMPTON 2840' -973'

LS TN LT TN BUFF HD DN FN TO TR MD XLN MTX TR
IMBD FOSS TR LOOSE FOSS IN TRAY NO FLO NO VIS
POR NO VIS SHOW

SH DK GRY TO GRY FRM BRITT CALC TO LMY THRU

SH BLK CARB

LS TN LT TN BUFF HD TO FRM BRITT VVFN TO FN XLN
MTX TR LT GRN CHERT IP DISS GRY SH IP NO FLO NO
VIS POR NO VIS SHOW

SH GRY BRN FRM BLKY GRNY

LS TN LT TN CRM BUFF MOTT HD DN TT CRYPTO TO
VVFN XLN MTX NO FLO NO VIS POR NO VIS SHOW

LS LT GRY TN LT TN BUFF HD TO FRM BRITT FN TO MD
XLN MTX IMBD FOSS SUB-CHLKY TO CHLKY TR IMBD
PYR IP TR IMBD CALC XLS IP ONLY SLT TR LT YLW FLO
TO NO FLO TR DEAD OIL STAIN ON 1% OF ROCK TR
POOR VUGGY POR TO PP AND MICRO PP POR POR
INTERXLN POR FAINT FLUSH CUT POR SHOW

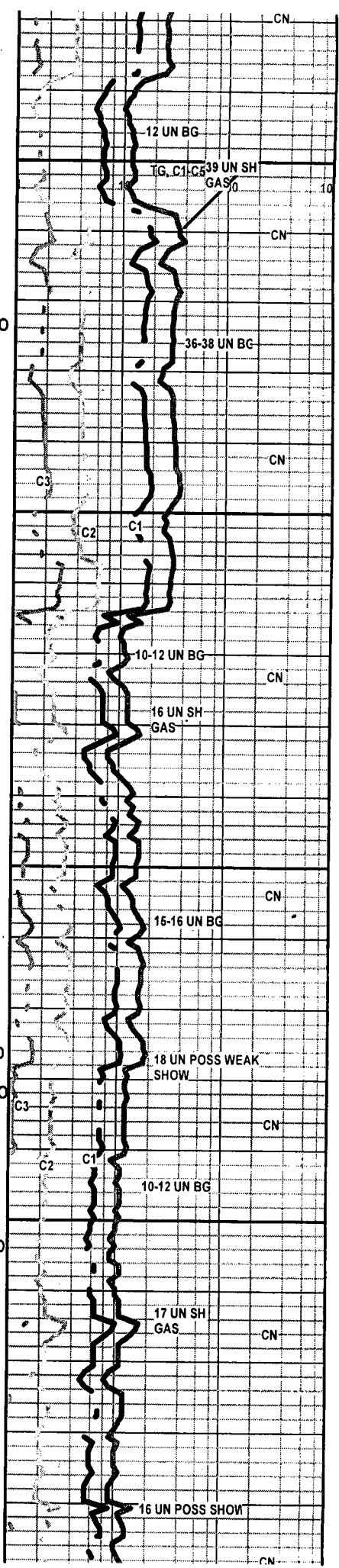
LS DK GRY TO GRY DK TN HD DN CRYPTO XLN MTX NO
FLO NO VIS POR NO VIS SHOW

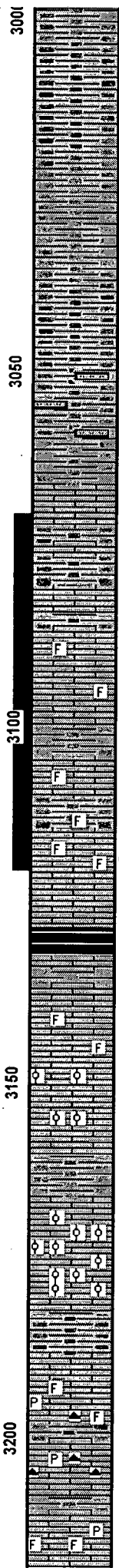
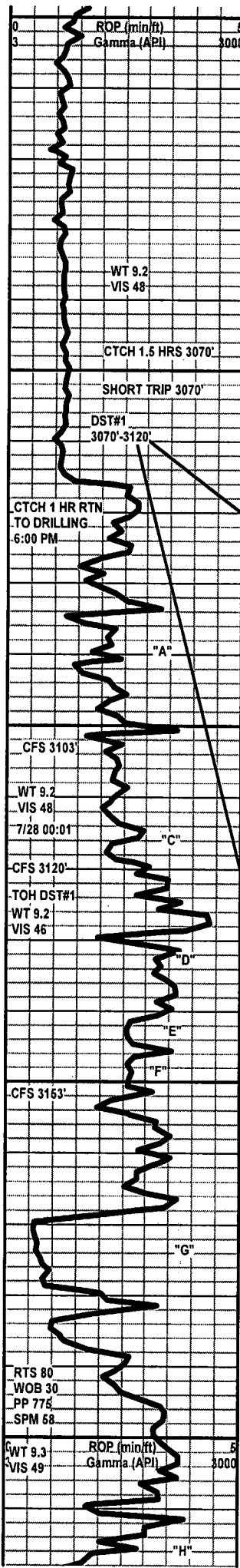
HEEBNER 2964' -1097'

TORONTO 2981' -1114'

LS LT TN CRM BUFF HD TO FRM VVFN OT FN XLN MTX SUCRO TX TR
IMBD QRTZ XLS IP CHLKY IP TR IMBD FOSS IP SLT TR STAIN ON 4%
TR LT DULL YLW FLO TO NO FLO NO ODOR POOR TO POSS FAIR
INTERXLN POR IP ONLY TR MICRO VUGS TO MICRO PP POR VRY
FAINT LT YLW RING CUT

DOUGLAS 2995' -1128





SH GRY SMOOTH SFT SILTY

SH GRY SMOOTH SFT SILTY

SH GRY LT GRY SMOOTH SFT SILTY WITH TR SILSTN IP

BROWN LIME 3065' -1198'

LS GRY DK TN TO TN BRN HD DN CRYPTO TO VVFN XLBN MTX DISS GRY SH IP NO FLO NO VIS POR NO VIS SHOW

LANSING 3086' -1219'

3086'-3098' LS LT TN DUE TO STAIN CRM BUFF HD TO FRM BRITT VFN TO FN XLN MTX TR IMBD FOSS IP SUCRO TXT TR SM ANG QRTZ XLS CLUSTERS IP FAIR ODOR IN 40,60, MIN SAMPLES STAIN 60% LT YWL TO DULL GLDN YLW FLO THRU POOR FAIR TO GOOD INTERXLN POR SM/MD VUG TO PP POR POSS FRACTURES FAIR TO GOOD INSTANT FLUSH CUT TO STRONG MILKY BLUE STREAM CUT LT YLW GRN RING CUT

LANSING "X" 3110' -1243'

3115'-3120' LS CRM BUFF HD DN VVFN TO FN XLN MTX TR RE-XLN MTX IP IMBD FOSS IP POSS TT INTERXLN POR TO NO POR SCATT TR DULL YLW FLO TO NO FLO TR LT OIL STAIN ON TWO ROCKS FAINT TO NO ODOR L FAINT FLUSH CUT TO FAINT LT YLW RING CUT TT SHOW

SH BLK CARB

LS GRY DK BRN TO DK TN HD DN TT CRYPTO TO VVFN XLN MTX NO FLO NO VIS POR NO VIS SHOW

3139'-3145' LS TN LT TN BUFF MOTT HD FRM BRITT FN TO MD XLN MTX IMBD FOSS TR IMBD CHLK IP TR LOOSE FOSS FRG IN TRAY NO FLO NO ODOR NO STAIN NO VIS POR NO CUT NO VIS SHOW

3145'-3154' LS LT TN CRM BUFF OFF WHT HD BRITT CRYPTO TO VFN TO FN XLN MTX RE-XLN MTX IP TR IMBD VR/SM TO SM AND TR MD OOLITES IP TR LMNTD PYR IP NO FLO POSS TT POOR TO NO INTERXLN POR NO ODOR NO STAIN NO CUT NO VIS SHOW

LS BUFF TO LT TAN TO TAN BRITT VVFN TO FN XLN MTX RE-XLN MTX IMBD SM TO MD OOLITES OOMOLDIC THRU IMBD CALC XLS CHLKY POSS TT INTER XLN POR NO FLO NO CUT NO VIS SHOW

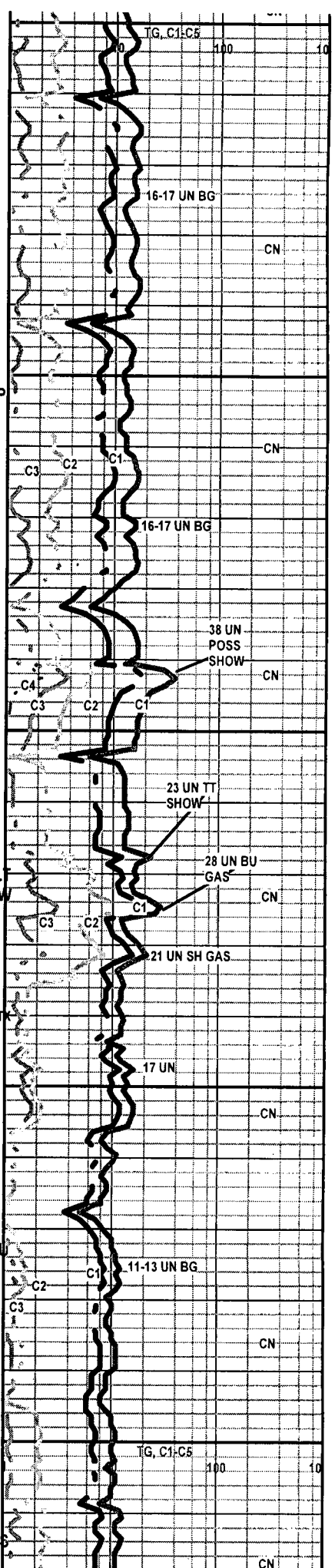
SH GRY SLTLY FRM TO SFT SILTY THRU

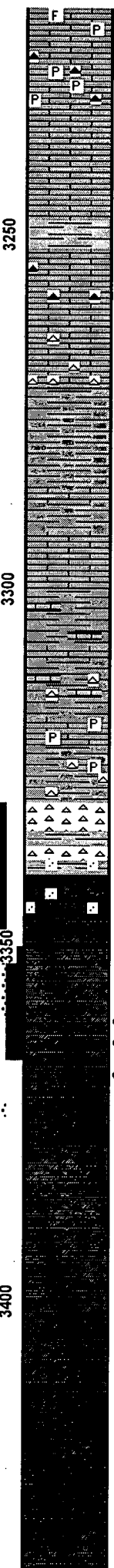
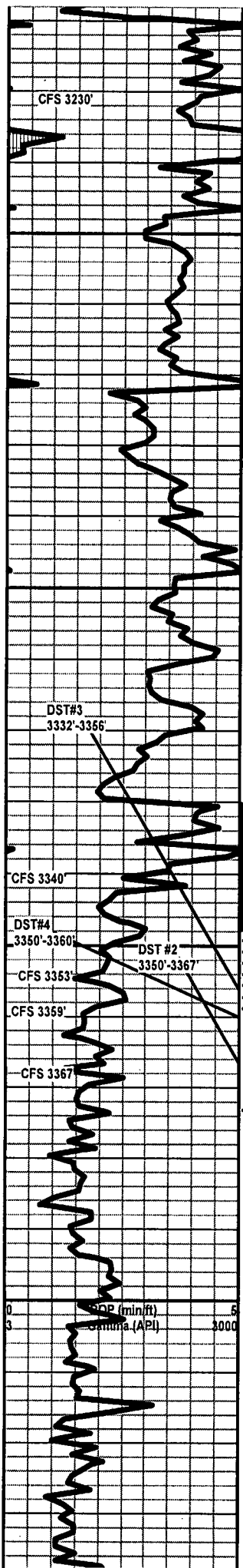
LS TN LT TN BUFF TO OFF WHT HD DN TT CRYPTO TO VVFN XLN MTX TR DISS GRY SH IP NO FLO NO VIS POR NO VIS SHOW

LANSING "Z" 3210' -1343'

LS DK TN DK GRY HD TT CRYPTO XLN MTX TR DK GRN CHERT IP TR PYR NODULES IN TRAY NO FLO NO VIS POR NO VIS SHOW

LS LT TN CRM BUFF FRM BRITT FN XLN MTX TR IMBD L GRNS IP SUCRO TXT TO IMBD FOSS TR IMBD SI





OOLITE OMOLDIC IP CHLKY WITH FRM PIECES CHLK IN TRAY TR IMBD PYR IP SCATT TR LT DULL YLW FLO TO NO FLO TR VUGGY POR TO PP AND MICRO PP POR IP NO ODOR NO CUT NO VIS SHOV

LS DK GRY TO GRY DK TN HD DN TT CRYPTO TO VVFN XLN MTX NO FLO NO VIS POR NO VIS SHOW

SH BRN RED HD BRITT BLKY CALC TO LMY THRU

LS LT GRY TN BUFF HD DN TT CRYPTO TO VVFN XLN MTX TT SUCRO TXT IP TR LT TN TO OPAQUE CHERT IP NO FLO NO VIS POR NO VIS SHOV

STARK SHALE 3272' -1405'

SH DK GRY TO GRY HD FRM BRITT SMOOTH SPLNTY

LS CRM BUFF TO OFF WHT HD DN TT CRYPTO XLN MTX THRU TR IMBD FOSS IP NO FLO NO VIS POR NO VIS SHOW

SH DK GRY TO GRY HD FRM BRITT VRY LMY THRU

LS GRY DK TN BUFF HD DN TT CRYPTO XLN MTX TR DISS GRY SH IP TR PYR NODULE IN TRAY NO FLO NO VIS POR NO VIS SHOW

SH GRY BRN TO RED FRM SMOOTH SPLNTY WITH TR CHERT IP

CHERT TN WHT TO OFF WHT MICRO TO CRYPTO XLN MTX TR IMBD OOLITES

ARBUCKLE 3342' -1475'

3342'-3350' DOL CRM OFF WHT TO WHT VVFN TO FN XLN MTX RE-XLN MTX IP SUCRO TXT TR LMNTD PYR IP TR IMBD SUB-RND TO RND SS GRNS IP TR IMBD VRY/SM SUB-ANG DOL XLS IP SCATT TR VRY LT DULL YLW FLO 10% POSS TT INTERXLN POR NO CUT NO VIS SHOW

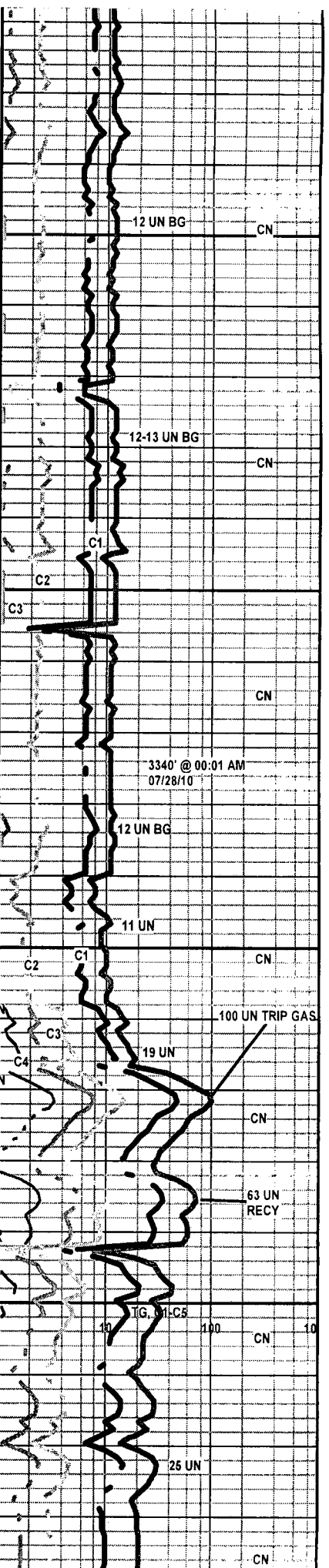
3350'-3359' DOL OFF WHT TO WHT LT GRY FRM BRITT VVFN TO FN TO MD XLN MTX RE-XLN MTX IMBD ANG TO SUB-ANG DOL XLS TR SM/MD QRTZ XLS IMBD IP TR CHLK IP POOR TO TR FAIR TO GOOD INTERXLN POR TO MICRO PP TO PP POR LT DULL YWL FLO 30% NO STAIN NO ODOR NO CUT NO VIS SHOW

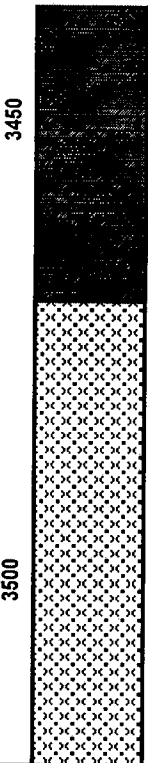
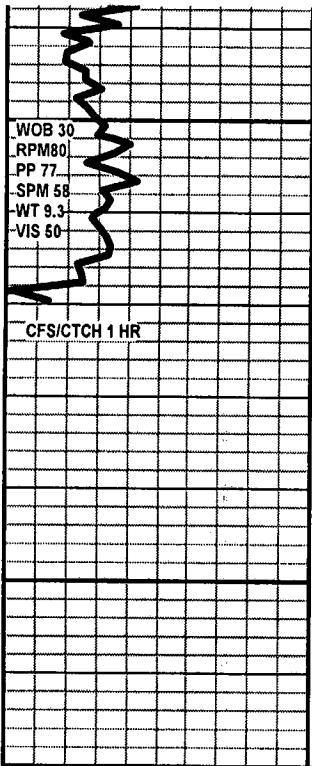
3359'-3367' DOL LT TN DUE TO STAIN LT GRY OFF WHT HFRM BRITT FN TO MD XLN MTX RE-XLN MTX CLUSTERS OF SM-MD DOL XLS WITH DOL CMNT TR IMBD CLR TO FRSTY WHT QRTZ XLS DULL GLDN YWL FLO 60% STAIN 40% FAINT TO FAIR ODOR FAIR TO POSS GOOD INTERXLN POR PP AND MICRO PP POR INSTANT FAIR TO GOOD FLUSH CUT TO FAIR STRONG MILKY BLUE STREAM CUT.

3370'-3390 DOL OF WHT TO WHT LT GRY FRM BRITT VVFN TO FN XLN MTX IMBD DOL XLS THRU CHLKY FAIR INTERXLN TO PP POR LT YWL FLO 45% NO STAIN NO ODOR NO CUT NO VIS SHOW

3390'-3310'DOL LT GRY OFF WHT FRM BRITT VVFN TO FN XLN MTX IMBD CLR DOL GRNS THRU TO SUCRO TXT THRU SCATT TR LT YWL FLO TO NO FLO NO ODOR NO STAIN NO CUT NO VIS SHOV

DOL LT GRY OF WHT TO WHT HD TO FRM BRITT CRYPTO TO VVFN TO FN XLN MTX IMBD PYR TR PYR NODULES IN TRAY TR IMBD VR/SM TO SM DOL GRNS IMBD CHLKY NO FLO FAIR INTERXLN TO POSS INTER GRAN POR NO CUT NO VIS SHOW





DOL LT TN LT GRY OFF WHT HD DN BRITT CRYPTO TO
 VVFN TOFN XLN MTX RE-XLN MTX IP IMBD SUB-ANG
 DOL XLS TO TR IMBD QRTZ XLS IP TR IMBD LT GRY CL
 TR IMBD PYR NO FLO NO VIS POR NO VIS SHOW

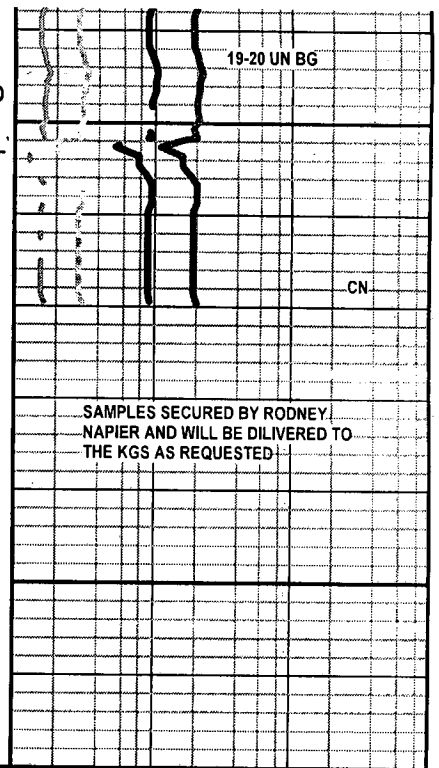
RTD 3470' 7/29/2010 8:00 PM

CTCH 1 HR

TOH FOR LOGS

THANK YOU FOR CHOOSING
 EARTHTECH

LOG COMPLETED BY RODNEY
 NAPIER AND TYLER SARYERWINNIE





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

November 30, 2010

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

Re: ACO-1
API 15-009-25453-00-00
SCHILLER 1-23
NW/4 Sec.23-17S-12W
Barton County, Kansas

Dear CLAYTON CAMOZZI:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 07/24/2010 and the ACO-1 was received on November 23, 2010 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department