



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1046920

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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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	BOXBERGER 2-36
Doc ID	1046920

All Electric Logs Run

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



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

November 11, 2010

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

Re: ACO1  
API 15-051-26009-00-00  
BOXBERGER 2-36  
SE/4 Sec.36-15S-16W  
Ellis 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



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

Well Name: Boxberger # 2-36  
Location: Sec 36 15s 16w, Ellis, Kansas  
License Number: 15-051-26009-0000  
Spud Date: 7/17/2010  
Surface Coordinates: 680' Fsl & 1300' Fel  
Region: Wildcat  
Drilling Completed: 07/24/2010  
Bottom Hole  
Coordinates:  
Ground Elevation (ft): 1920' K.B. Elevation (ft): 1930'  
Logged Interval (ft): 1024' To: 3600' Total Depth (ft): 3600'  
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: Tom Fertal

#### GEOLOGIST

Name: Rodney Napier/Tyler Saryerwinnie  
Company: Earth Tech OGL, Inc.  
Address: PO Box 683  
Hooker, Okla . 73945  
Off. 888-543-8378 Cell: 620-655-8252

#### Circulation Report



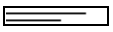

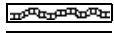



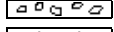


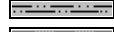
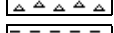


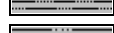

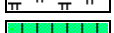

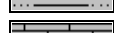




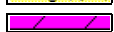
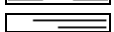




START UNMANNED LOGGING UNIT 7/18/2010  
START 24 HR LOGGING UNIT 7/20/2010  
3206' CFS/CTCH TOTAL 1.5 HRS  
SHRT TRIP TO COLARS  
CTCH 1 HR 3233' CFS 20.40.60.80.TOTAL 2.5 HRS  
3258 CFS  
3278 CFS  
3278' CTCH AND CONDITION MUD 3 HRS  
3308' CFS  
3353' CFS  
3375' CFS  
3396' CFS  
3413' CFS  
3480' CFS  
3493' CFS  
TD 07/24/2010 3600'/ CTCH 1.5 HRS

DST information

DST # 1 3173'-3233  
 ANCHOR 60'  
 IF BOB 1 MIN  
 IS GAS TO SURFACE WHILE BLEEDING THEN 2"  
 FF BOB 20 SEC GAS TO SURFACE, TSTM  
 FS BOB 20 SEC DECREASING TO 10" IN BUCKET, GAS  
 RECOVERY 652 FT OF GO  
 RECOVERY 60 FEET OF MO  
 BHT 103 DEG GRAVITY 34  
 IH 1533  
 FIF 156  
 FFF 228  
 ISI 989  
 SIF 247  
 SFF 308  
 FSI 992  
 FH 1500  
 TIMES: 10, 60, 10, 60

DST #2 3236-3258'  
 ANCHOR: 22'  
 IF BOB 2 MIN  
 IS RETURN BLOW 3 MIN AFTER BLEEDOFF, 1/2" STEADY  
 FF BOB RIGHT AWAY  
 FS RETURN BLOW, 2 MIN AFTER BLEEDOFF, BUILDING TO 9"  
 RECOVERY 1984 FEET OF GIP  
 RECOVERY 124 FEET OF GMCO  
 BHT 101, GRAVITY 29  
 IH 1534  
 FIF 22  
 FFF 28  
 IS 858  
 SIF 32  
 SFF 58  
 FSI 843  
 FH 1499  
 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		Sltyslsh
	Coal		Salt		Dol		Lms
	Congl		Shale		Dtd		
	Dol		Shcol		Gry sh		

**ACCESSORIES**

**MINERAL**

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlit
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sity

**FOSSIL**

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

**STRINGER**

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Grysit
- Lms
- Sandylms
- Sh
- Sltstn

**TEXTURE**

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

**OTHER SYMBOLS**

**POROSITY TYPE**

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

**SORTING**

- Well
- Moderate
- Poor

**ROUNDING**

- Rounded
- Subrnd
- Subang

- Angular

**OIL SHOWS**

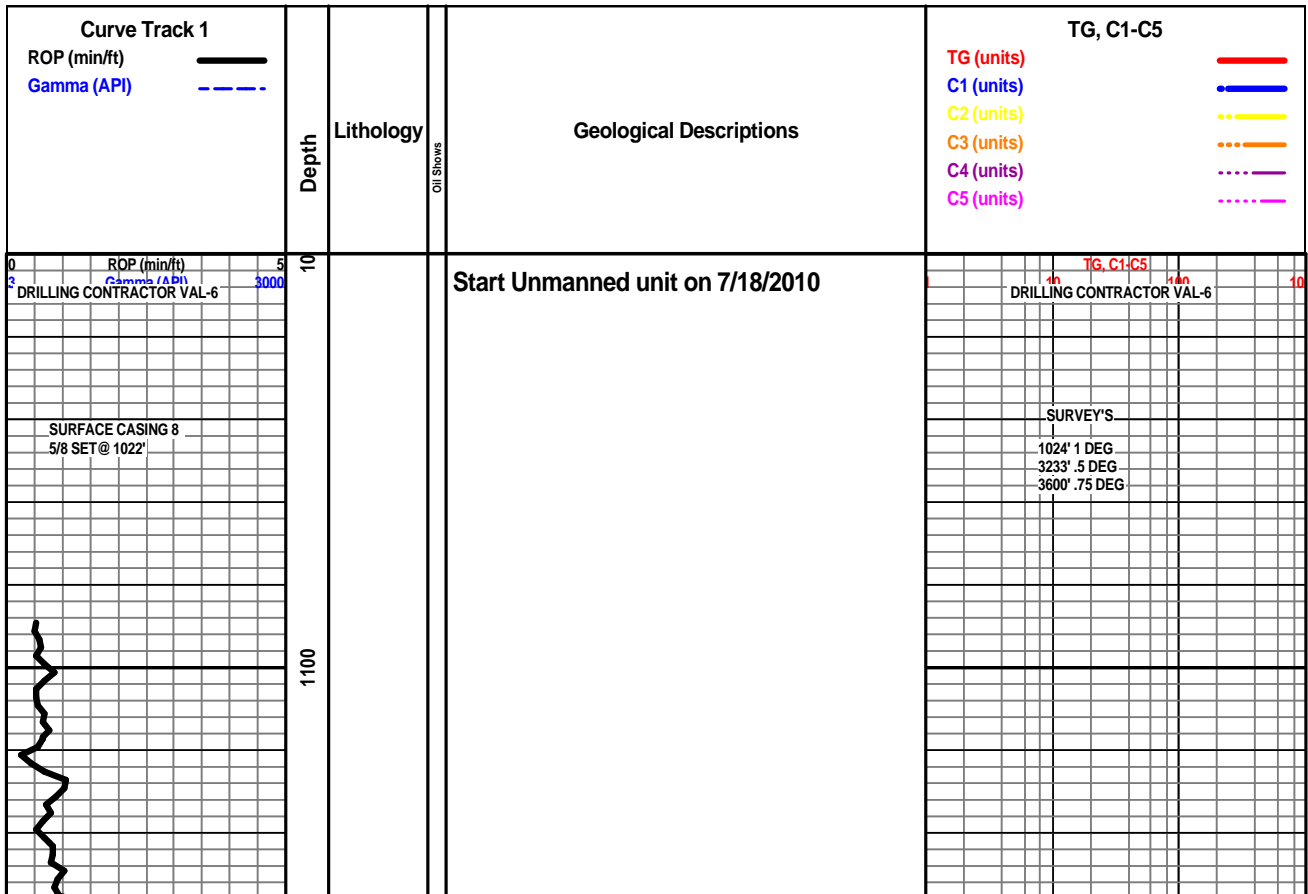
- Even
- Spotted
- Ques
- Dead
- Gas show

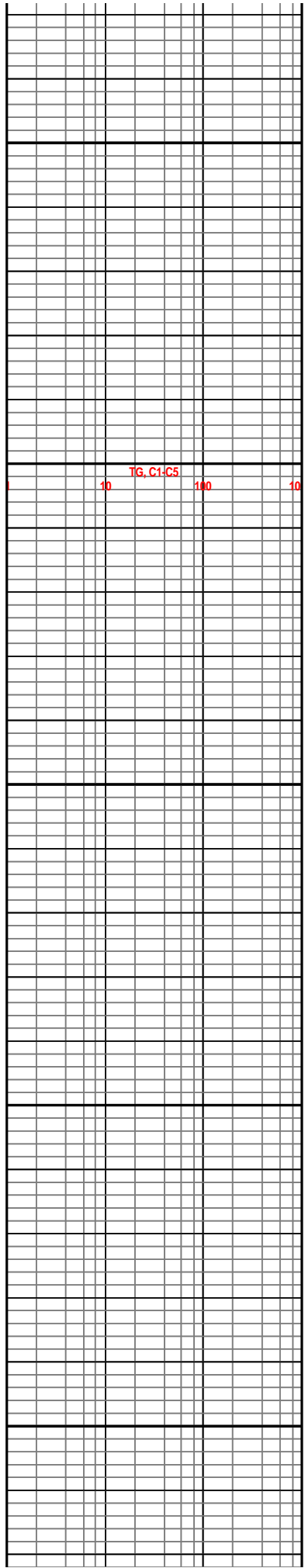
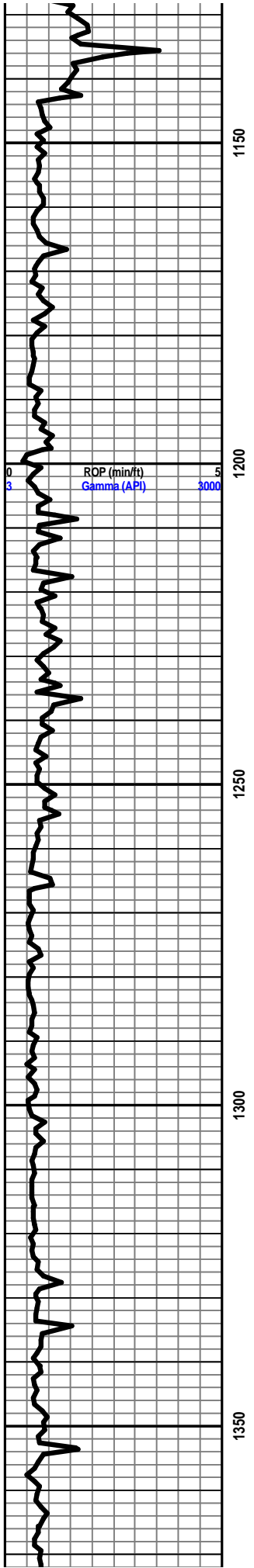
**INTERVALS**

- Core
- Dst
- Dst

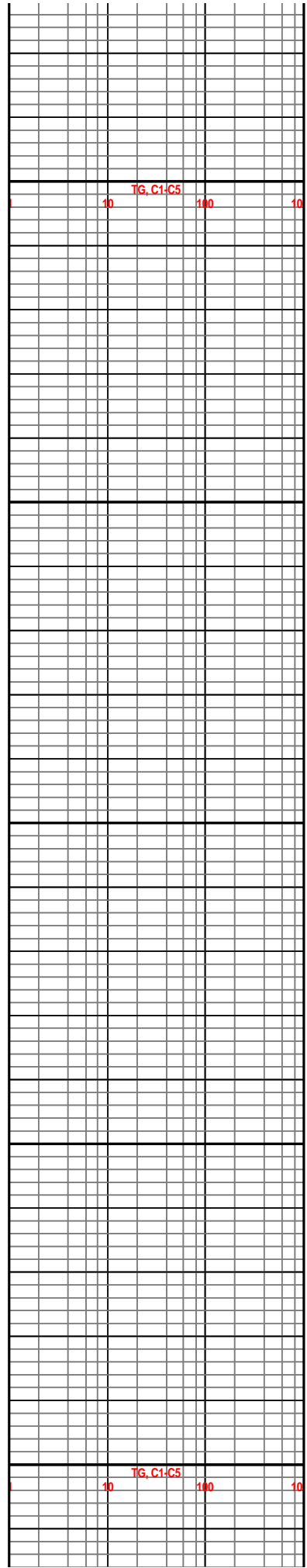
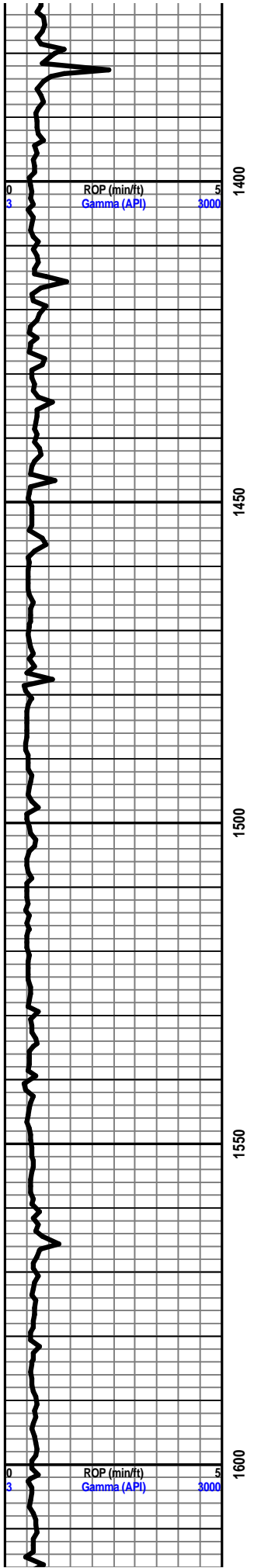
**EVENTS**

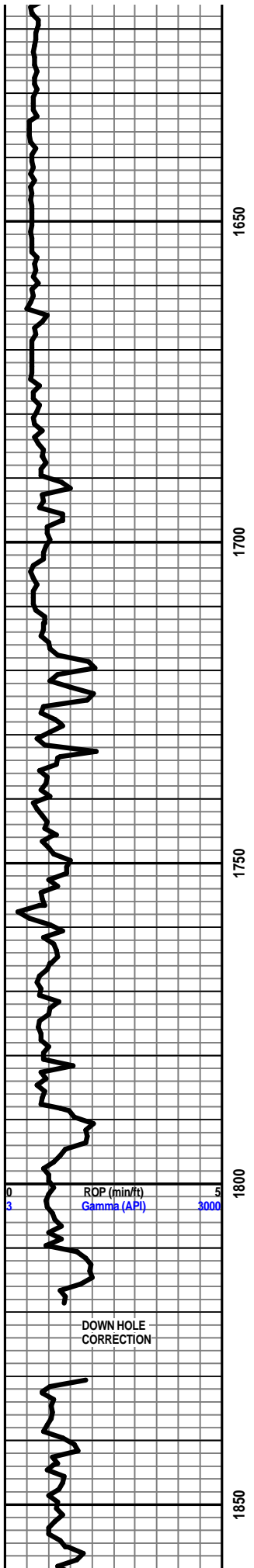
- Rft
- Sidewall



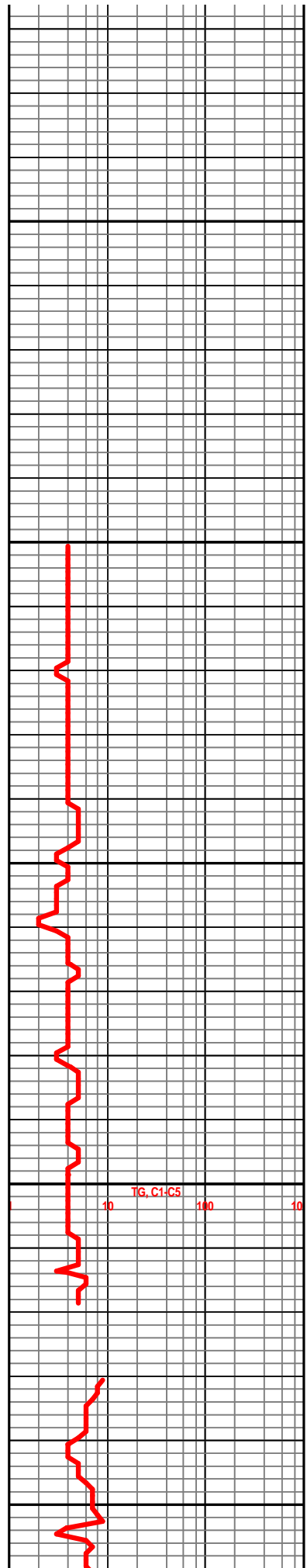


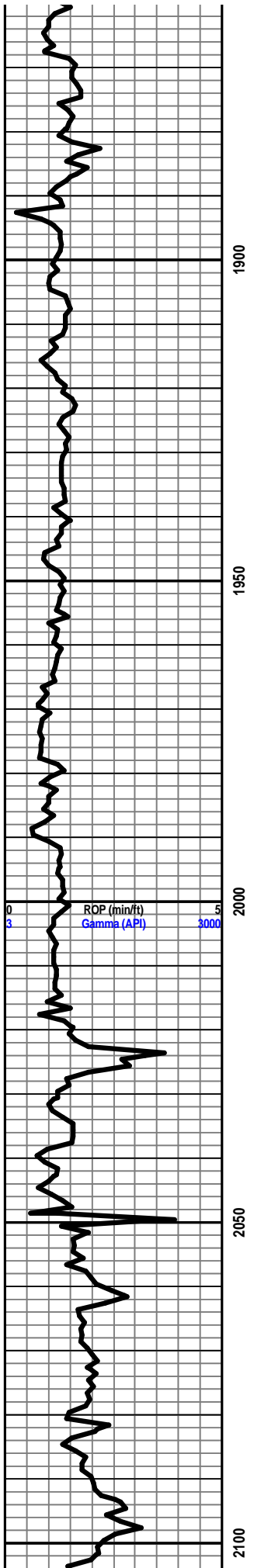




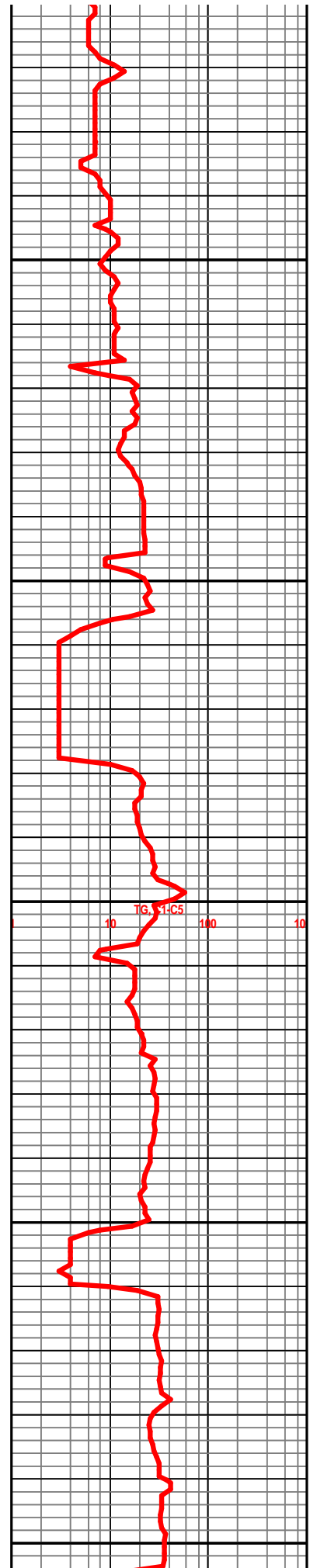


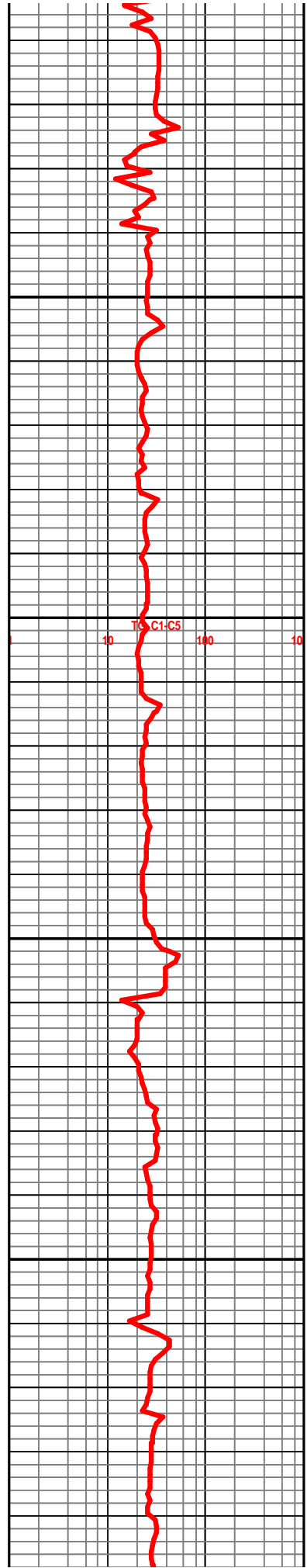
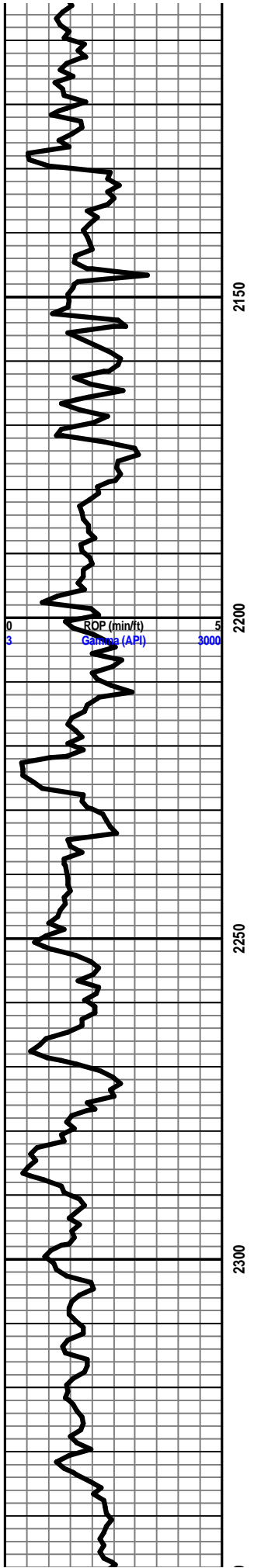
START UNMANNED LOGGING UNIT 7/18/2010

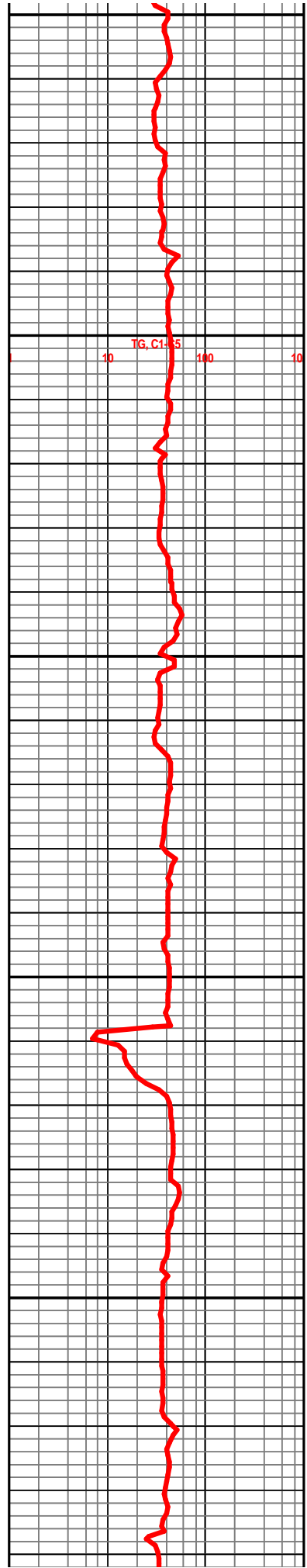
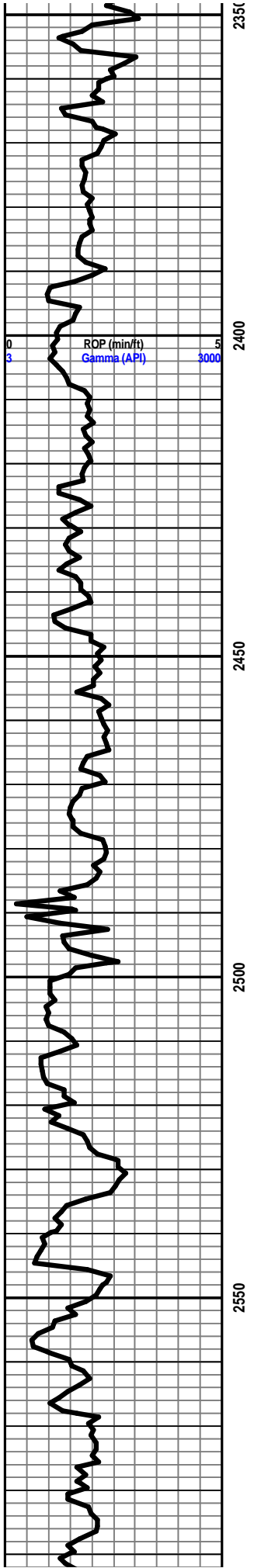


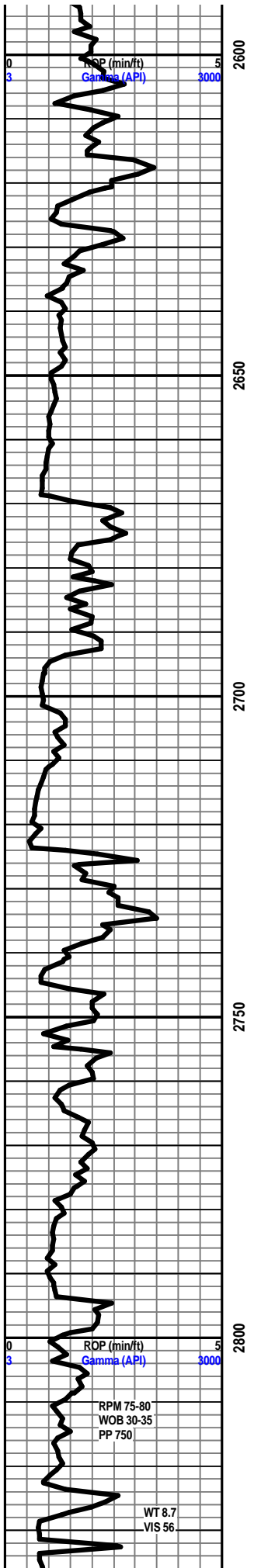


2104' 7:30 AM 07/19/10







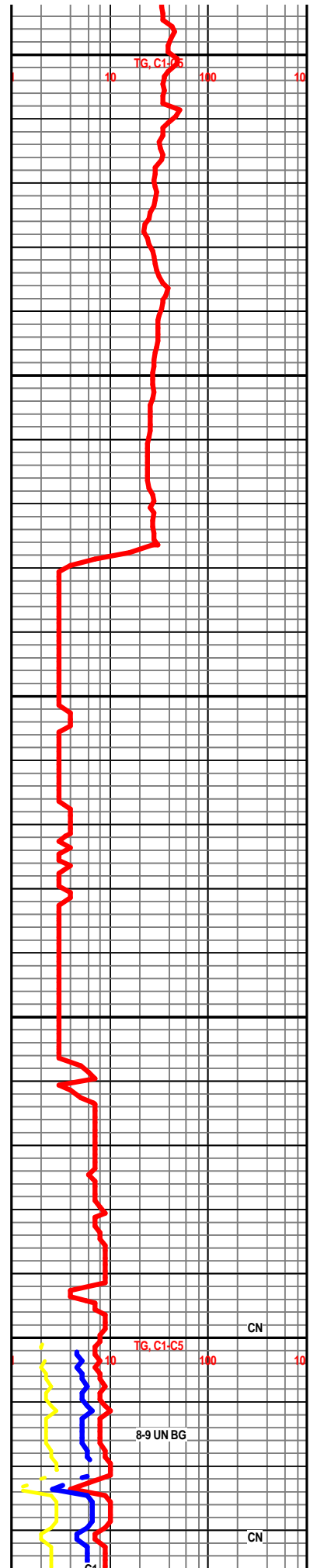


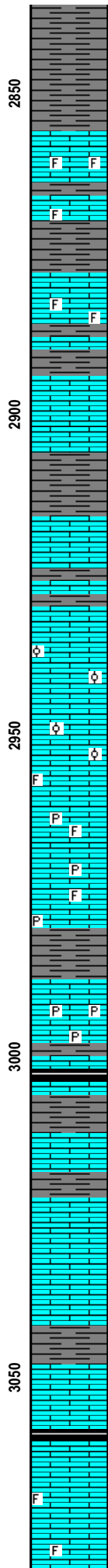
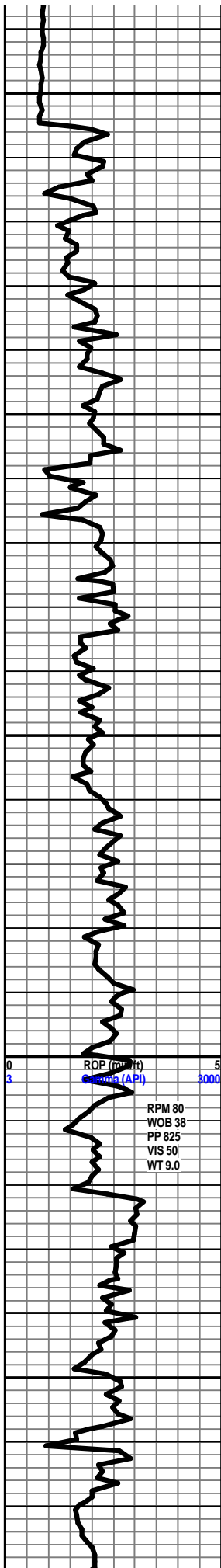
BASE ROOT SHALE 2669' -739'

START 24 HR LOGGING UNIT 7/20/2010

LS GRY TAN LT TAN FN XLN MTX SUB CHLKY IMBD GRY  
SH NO FLO TR POS INTRXLN POR NO CUT NO VIS SHOW

SH GRY BRWN SLIGHTLY FIRM SMOOTH BRITT SPLINTY  
TR IMBD FOSS





SH LT GRY SFT GUMMY

**HOWARD 2855' -925'**

LS LT GRY LT TAN CRM BUFF IMBD FOS LMNTD PYR  
IMBD GRY BR SH TR PR INTRXLN POR NO FLO NO CUT  
NO VIS SHOW

SH BRWN LT BRWN SMTH FRM BRITT TO LMY

LS DRK TAN TO TAN BUFF HD DENSE CRYPTO TO VVFN  
XLN MTX TR IMBD FOS TR MCR PP POR TO NO POR NO  
FLO NO CUT NO VIS SHOW

LS LT TAN CRM BUFF FN XLN MTX SUCRO TXT SUB  
CHLKY TR IMBD SM TO MD QRTZ XLS IMBD GRY SH DISS  
BRWN SH NO FLO NO VIS POR NO CUT NO VIS SHOW

**TOPEKA 2916' -986'**

LS GR TAN LT TAN BUFF MOTT VFN TO FN TO MED XLN  
MTX RE-XLN MTX SM IMBD LS GR IP TO SM MD FOS IMBD  
TR IMBD QRTZ XLS IP TR FR INTR XLN TO PR INTR XLN  
POR IP ONLY NO FLO NO CUT NO VIS SHOW

LS LT TAN CRM BUFF TR IMBD VRY SM DRK OOLITES TR  
IMBD PYR SUB CHLKY NO FLO TR PP TO MCRO PP POR  
IP POOR INTR-XLN POR NO CUT NO VIS SHOW

LS GRY TAN LT TAN BUFF HRD TO BRITT CRYPTO TO  
VVFN TO FN XLN MTX IMBD PYR IMBD FOSS IMBD VSM LS  
GR SUC TXT IP SCAT DULL LT YLW FLO IP TO NO FLO NO  
CUT NO VIS SHOW

SH GR BWN FRM BLKY CALC TR IMBD FOSS

LS GRY DRK TAN TO TAN HRD DN CRPYTO TO VVFN XLN  
MTX TR VSM CALC XLS IMBD TR DISS DRK GR SH TR  
PYR NOD IN TRAY W TR LT GRN CHERT NO FLO NO CUT  
NO VIS SHOW

SH BLK CARB

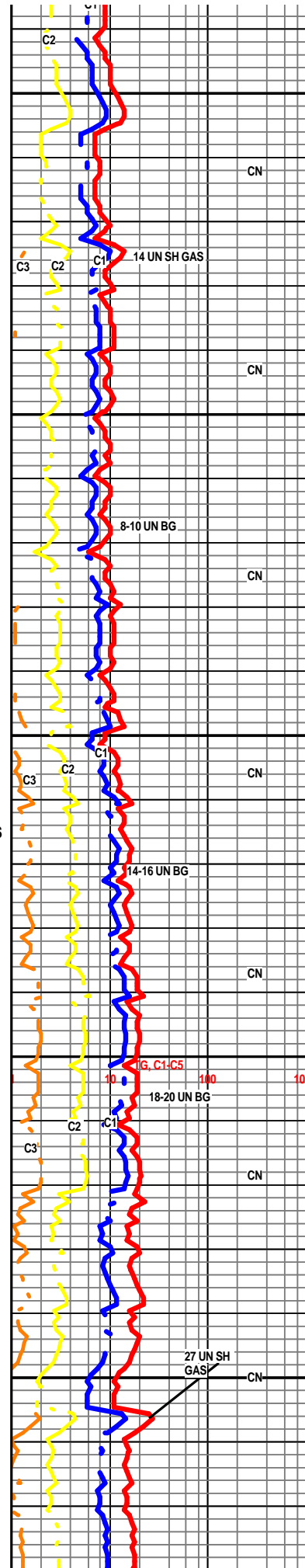
**LE COMPTON 3021' -1091'**

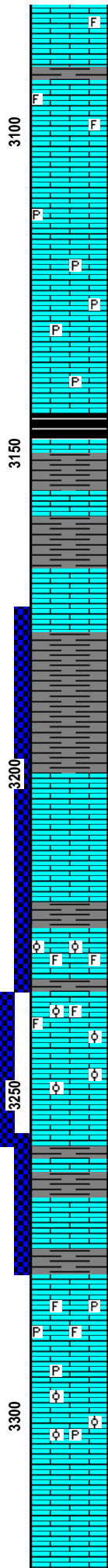
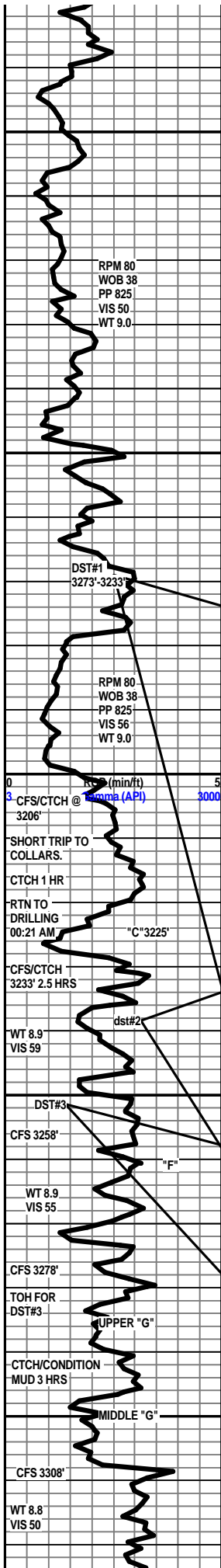
LS CRM BUFF HRD DN BRITT CRYPTO TO VVFN XLN MTX  
NO FLO NO CUT NO VIS SHOW

SH GRY LT GRY FRM BLKY WAXY TXT THRU

SH BLK CARB

LS CRM BUFF TO OFF WHT HD TO FRM BRITT VVFN TO  
FN XLN MTX RE-XLN MTX IP IMBD FOSS SUB-CHLKY  
SCATT DULL YLW FLO NO VIS POR NO VIS SHOW





LS LT TN CRM BUFF FRM BRITT FN XLN MTX RE-XLN MTX IMBD FOSS SUB-CHLKY FAIR PP TO MICRO PP POR ON TWO ROCKS TR POOR TO FAIR INTERXLN POR LT YLW FLO 10% POOR TO FAIR ODOR STAIN ON 20% TR LIVE OIL IN TRAY FAIR FLUSH CUT TO GOOD STRONG MILKY BLUE STREAM CUT TO GLDN YLW RING CUT WITH BRN LEACH ON DISH

LS CRM BUFF OFF WHT FRM BRITT VVFN TO FN XLN MTX CHLKY WITH IMBD FOSS TR LMNTD PYR IP NO FLO FAIR INTERXLN TO TR MICRO PP TR VUG POR NO CUT NO VIS SHOW

LS TN LT TN BUFF HD DN BRITT VVFN TO FN XLN MT TR PYR NODULES IP NO FLO NO VIS POR NO VIS SHOW

**HEEBNER 3143'1213'**

SH DK GRY TO GRY TO DK BRN FRM BLKY CALC TO LMY

LS TN LT TN BUFF CRYPTO TO VVFN XLN MTX DISS GRY SH NO FLO NO VIS POR NO VIS SHOW

**DOUGLAS 3178' -1248'**

SH LT GRY SFT SILTY THRU

**LANSING 3198' -1268'**

LS LT TN CRM BUFF HD FRM FN XLN MTX RE-XLN MTX IMBD SM CALC XLS TR IMBD QRTZ XLS IP FAIR ODOR POOR ROCK GLDN YLW FLO 40% STAIN 30% TR POOR TO POSS FAIR INTERXLN POR TR VUGS IP TR MICRO PP POR ON ONE ROCK GOOD ODOR POOR TO FAIR FLUSH CUT TO SLOW MILKY BLUE STREAM CUT WITH LT YLW RING CUT

LS LT TN CRM BUFF FRM BRITT FN TO TR MD XLN MTX RE-XLN MTX IMBD FOSS IMBD OOLITES TR FSTY WHT QRTZ XLS IMBD IP TO SM CALC XLS IMBD IN VUGS OOMOLDIC 40% STAIN 60% LT YLW TO GLDN YLW FLO 70% FAIR TO GOOD INTERXLN POR FAIR TO GOOD VUGS TR PP POR TR FAIR INTER FOSS POR IP GOOD ODOR THRU GOOD FLUSH CUT TO FAIR TO GOOD MILKY BLUE STREAMING CUT GLDN YLW RING CUT LT BRN LEACH ON DISH

3236'-3241' LS LT TN CRM BUFF HD FRM BRITT VVFN TO FN XLN MTX TR MD OOLITES IMBD IP TR CHLK IP TR IMBD SUB-RND LS GRNS TR IMBD QRTZ XLS IP STAIN ON 10% POOR TO FAIR TO POSS GOOD INTERXLN POR TO TR VUGS IP NO FLO NO ODOR POOR FAINT FLUSH CUT TO LT YLW RING CUT NO VIS SHOW

3246'-3251' LS CRM BUFF TO OFF WHT FRM TO SFT IP FN XLN MTX RE-XLN MTX TR IMBD CALC XLS IP TR IMBD FOSS IP TR PYR IP TR MICRO VUGS TO TR PP POR SLTLY POSS FOSS POR OMMOLDIC IP NO FLO TR STAIN ON 20% NO ODOR FAINT POOR FLUSH CUT TO LT YLW GRN RING CUT POOR SHOW

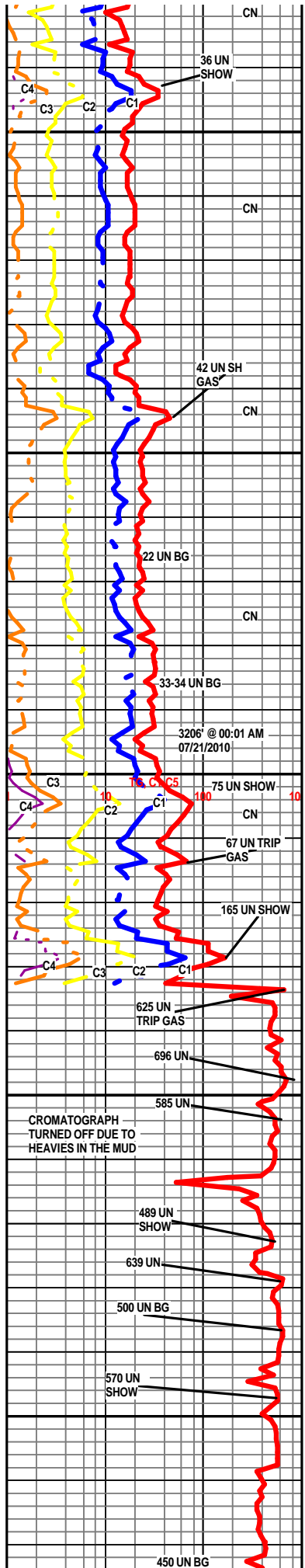
3269'-32703' LS LT TN DUE TO STAIN HD TO FRM BRITT FN TO MD XLN MTX RE-XLN MTX IBF FOSS IMBD OOLITES IMBD CALC XLS IN VUGS TR IMBD SM/MD QRTZ XLS IP FAIR TO GOOD INTERXLN POR TO FAIR TO GOOD VUG POR PP POR TO FAIR INTER FOSS POR FAINT TO SLTLY FAIR ODOR STAIN ON 35% TWO ROCKS SATURATED WITH STAIN GLDN YLW FLO 45% FAIR FLUSH CUT TO SLOW MILKY BLUE STREAM CUT GLDN YLW RING CUT TO BRN LEACH ON DISH

3280'-3290' LS LT TN CRM BUFF HD TO FRM BRITT CRYPTO TO VVFN TO FN XLN MTX TR IMBD FOSS TR LMNTD PYR TR FRM CHLK TR POOR INTERXLN POR TO MICRO PP POR NO ODOR STAIN 10% SCATT LT YLW FLO POOR INSTANT FLUSH CUT TO SPURTY POR MILKY BLUE STREAM CUT FROM ONE ROCK POOR SHOW

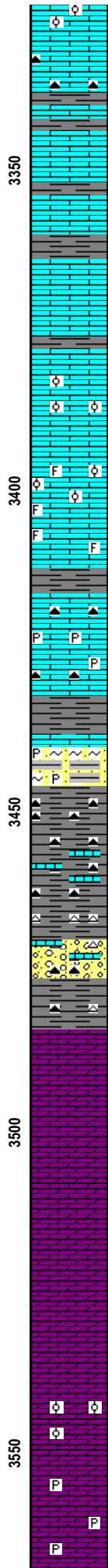
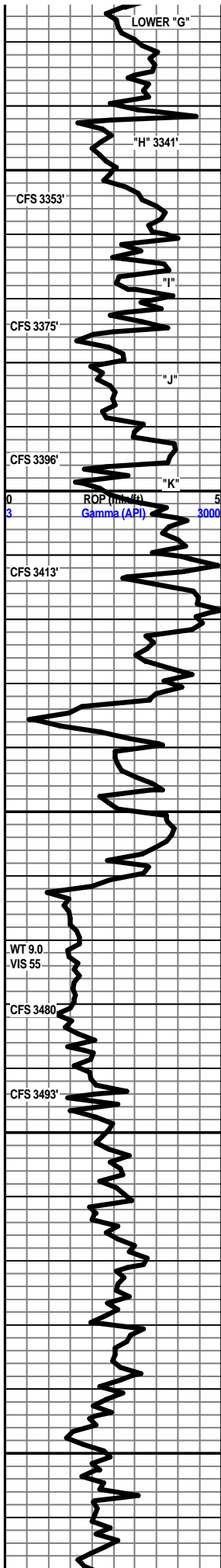
3295'-3308' LS CRM BUFF TO OFF WHT FRM BRITT VVFN TO FN XLN MTX RE-XLN MTX IMBD OOLITES TR IMBD PYR IP SFT WHT CHLK TR IMBD VR/SM CALC XLS POOR TO TR FAIR INTERXLN POR IP TO VUG POR TR PP TO MICRO PP POR OMMOLDIC POSS POOR INTER-FOSS POR GLDN YLW FLO 20% FAINT ODOR FAINT TO FAIR INSTANT FLUSH CUT TO VRY POOR SLOW MILKY BLUE STREAM CUT

LS TN LT TN BUFF HD DN CRYPTO TO VVFN XLN MTX IMBD FOSS SUCRO TXT IP NO FLO NO VIS POR NO VIS SHOW

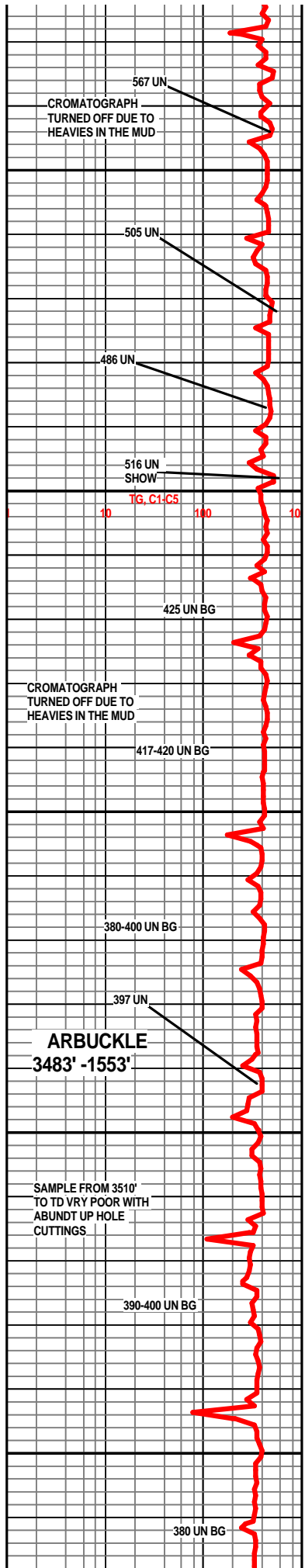
3323'-3330' LS CRM OFF WHT HD TO FRM BRITT CRYPTO TO VVFN TO

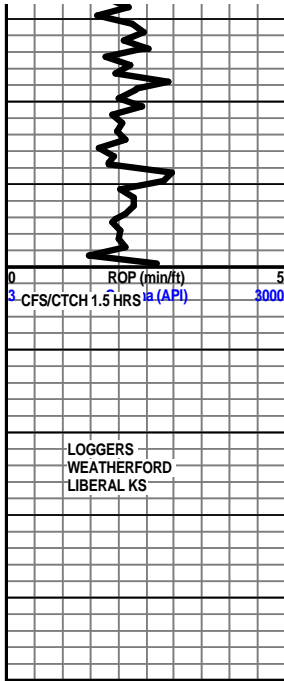




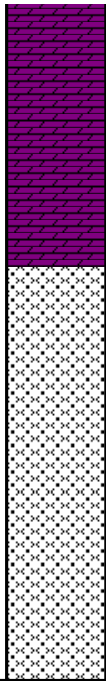


IN TRAY TR VRY POOR INTERXLN POR TO MICRO PP POR OOMOLDIC IP SLT TR LT YLW FLO TO NO FLO NO STAIN NO ODOR NO CUT NO VIS SHOW  
 LS DK TN TO TN CRM BUFF MOTT HD DN TT CRYPTO XLN MTX DK GRN CHERT IP TR DISS DK GRN SH IP NO FLO NO VIS POR NO VIS SHOW  
 LS LT TN BUFF HD DN VFN TO FN XLN MTX TR TT OOLITE CLUSTERS IMBD FOSS TR IMBD PYR TR IMBD SH IP LT YLW FLO 10% FAINT ODOR IN 60 MIN SAMPLE STAIN 25% POOR INTRXLN TO PP POR TR MICRO VUG POR SPOTTY SLOW MILKY BLUE STREAM CUT TO FAINT LT YLW RING CUT  
 SH GRN FRM TO BRITT SMOOTH SPLNTY  
 LS LT TN DUE TO STAIN CRM BUFF HD DN CRYPTO TO VVFN TO FN XLN MTX RE-XLN MTX IP TR IMBD SM/MD QRTZ XLS IP TR VR/SM CLEAR CALC XLS IP TR IMBD FOSS IP NO ODOR LT YLW FLO 5% TO NO FLO STAIN 10% POOR TT INTR-XLN POR TR MICRO VUG TO MICRO PP POR VRY FAINT FLUSH CUT  
 LS TN DUE TO STAIN LT TN CRM BUFF HD TO FRM BRITT VVFN TO FN TO MD XLN MTX RE-XLN MTX IMBD VRY SM OOLITES VRY/SM TO SM CALC XLS IMBD TO IMBD IN VUGS SLTLY OOMOLDIC IP ONLY TR IMBD SM QRTZ XLS IP GLDN YLW FLO 80% STAIN 65-70% GOODFAIR TO GOD ODOR FAIR TO GOOD INTERXLN POR FAIR VUG POR MICRO VUG POR TR PP POR FAIR TO GOOD INTSANT FLUSH CUT TO GOOD TO STRONG MILKY BLUE STREAMING CUT  
 3395'-3402' LS CRM BUFF TO OFF WHT HD TO FRM BRITT FN XLN MTX TO MD XLN MTX IMBD OOLITES AND FOSS 60% VRY/SM CALC XLS IMBD SUCRO TXT FAIR TO GOOD ODOR LT YLW FLO 20% TO LT GLDN YLW 60% STAIN 50% FAIR GOOD TO EXCELLENT INTRXLN POR FAIR TO POSS GOOD INTER FOSS POR PP POR SCATT THRU FAIR INSTANT FLUSH CUT TO FAIR TO GOOD MILKY BLUE STREAMING CUT.  
 LS DK TN TO TN GRY BUFF MOTT HD DN TT CRYPTO TO VVFN XLN MTX TR DISS GRY SH TO IMBD GRY SH TR IMBD PYR TR LT GRN TO OPAQUE CHERT IP NO FLO NO VIS POR NO VIS SHOW  
**BKC 3432' -1502'**  
 SH DK GRY TO GRY SLTY FRM SFT SMOOTH SPLNTY SFT TO GUMMY  
 SS CLEAR TO FRSTY WHT TN LT TN V/SM TO SM SUB-ANG TO SUB-RND SS GRNS WITH CALC CMNT IMBD SH TR IMBD PYR IP TR GLAC IP NO FLO POSS TT INTERGRAN POR NO CUT NO VIS SHOW  
 SH DK GRY TO GRY DK BRN FRM BLKY CALC TO WAXEY TXT WITH LT TN ORNG OPAQUE BRN DK GRN CHERT WITH TR LS OFF WHT TO WHT TR IMBD OOLITES NO FLO NO VIS POR NO CUT NO VIS SHOW  
 CONG DK TO LT CHERT TR LS WITH IMBD SM CLR TO FRSTY WHT SS GRNS TR DK DEAD OIL STAIN NO FLO NO VIS POR FAINT FLUSH CUT TO NO CUT  
 DOL TN THRU DUE TO STAIN VR/SM TO SM SUB-ANG TO SUB-RND DOL GRNS THRU WITH DOL CMNT FAIR TO GOOD ODOR GLDN YLW FLO THRU STAIN IN 90% FAIR TO GOOD INTER GRAN POR TO PP POR INSTANT FLUSH TO GOOD STRONG MILKY BLUE TO GLDN YLW STREAM CUT GLDN YLW RING CUT TO BRN LEACH ON DISH THRU  
 DOL LT TN CRM BUFF FRM BRITT FN TO MD XLN MTX RE-XLN MTX IMBD SM TO MD ANG TO SUB-ANG DOL XLS TR IMBD QRTZ XLS IP GLDN YLW FLO 70% LT YLW FLO 30% STAIN 90% TR LIVE OIL ON ROCKS FAIR TO GOOD INTER-XLN PORTO PP AND MICRO PP POR POSS FRACTURES IP GOOD INSTANT FLUSH CUT TO STRONG MILKY BLUE STREAM CUT BRN LEACH ON DISH  
 3495'-3510' DOL LT TN DUE TO STAIN CRM BUFF HD FRM FN TO MD XLN MTX RE-XLN MTX THRU IMBD SM TO MD TO LG ANG DOL XLS WITH IMBD CALC XLS TR IMBD QRTZ GLDN YLW FLO THRU STAIN ON 60% FAIR TO GOOD ODOR FAIR TO GOOD INTERXLN POR TO PR TO FAIR PP TO VUGGY POR INSTAN EXCELLENT FLUSH CUT TO STRONG MILKY BLUE STREAM CUT\*FAINT TR BRN LECH ON DISH  
 3510'-3530' DOL CRM BUFF OFF WHT HD TO FRM BRITT VFN TO FN TO MD XLN MTX WITH SM TO MD ANG DOL XLS RE-XLN MTX THRU FAIR INTERXLN POR DULL YLW TO LT YLW FLO 40% NO STAIN NO CUT NO VIS SHOW  
 3530'-3550' DOL CRM BUFF OFF WHT HD TO FRM BRITT VVFN TO FN XLN MTX TR TR IMBD OOLITES IP ONLY CHLKY IP PR TO FAIR TO TR GOOD INTERXLN POR TR PP AND MICRO PP POR SCATT TR LT YLW FLO IP NO CUT NO VIS SHOW  
 3550'-3570' CRM OFF WHT TO WHT HD FRM VVFN TO FN XLN MTX SUCRO TXT THRU VRY SM SUB-RND DOL GRNS THRU SUB-CHLKY IP TR PYR NO FLO POSS TT INTER XLN POR TO NO POR NO CUT NO VIS SHOW





3600  
50



3570'-35790' CRM OFF WHT TO WHT HD FRM VVFN TO FN  
XLN MTX SUCRO TXT THRU VRY SM SUB-RND DOL GRNS  
THRU SUB-CHLKY IP NO FLO POSS TT INTER XLN POR  
TO NO POR NO CUT NO VIS SHOW

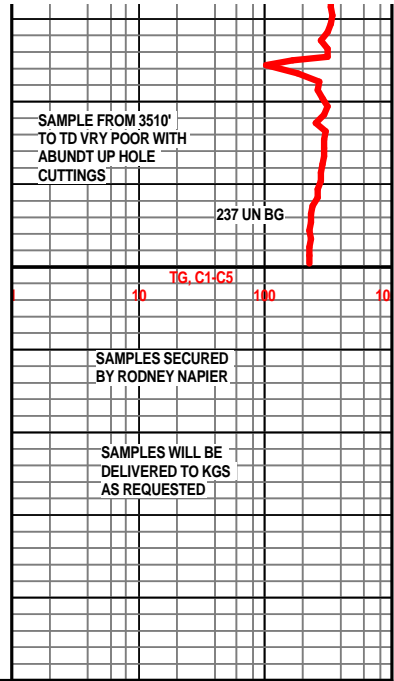
3590'-3600' DOL CRM BUFF OFF WHT TO WHT TO LT GRY  
VVFN TO FN XLN MTX RE-XLN MTX IP TR IMBD SM TO MD  
DOL XLS IP SUCRO TXT CHLKY IP TR IMBD PYR IP NO  
FLO NO VIS POR NO CUT NO VIS SHOW

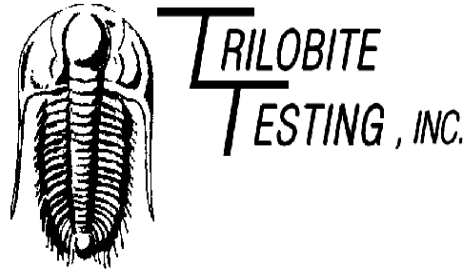
RTD 3600' @ 517 AM 07/24/2010

CTCH 1.5 HRS

TOH FOR LOGS

THANK YOU FOR CHOOSING  
EARTHTECH





## DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr. & assoc. inc.**

1515 Wynkoop, Ste 700  
Denver Co. 80202

ATTN: Tom Fertal

**36-15s-16w Ellis**

**Boxberger #2-36**

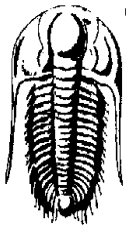
Start Date: 2010.07.21 @ 05:25:01

End Date: 2010.07.21 @ 13:16:30

Job Ticket #: 039888      DST #: 1

Trilobite Testing, Inc

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Sam Gary Jr. & assoc. inc.

1515 Wynkoop, Ste 700  
Denver Co. 80202

ATTN: Tom Fertal

**Boxberger #2-36**

**36-15s-16w Ellis**

Job Ticket: 039888

**DST#: 1**

Test Start: 2010.07.21 @ 05:25:01

## GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:03:15

Time Test Ended: 13:16:30

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 53

**Interval: 3173.00 ft (KB) To 3233.00 ft (KB) (TVD)**

Reference Elevations: 1930.00 ft (KB)

Total Depth: 3233.00 ft (KB) (TVD)

1922.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6669 Outside**

Press@RunDepth: 308.17 psig @ 3174.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.21

End Date: 2010.07.21

Last Calib.: 2010.07.21

Start Time: 05:25:01

End Time: 13:16:30

Time On Btm: 2010.07.21 @ 08:02:15

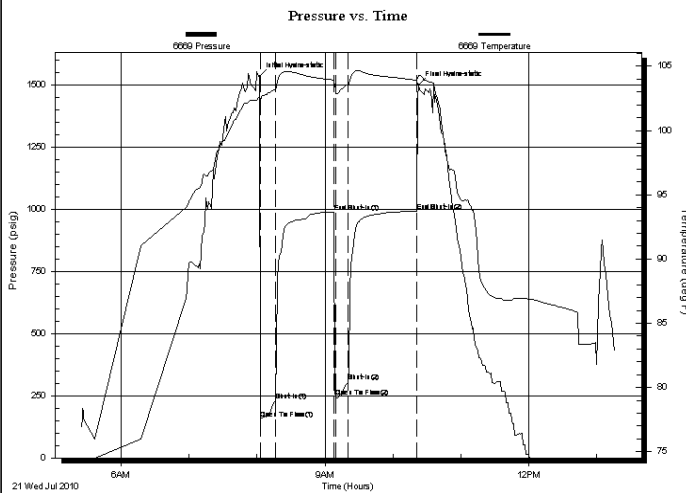
Time Off Btm: 2010.07.21 @ 10:22:30

TEST COMMENT: IF: BOB, 1 min.

IS: Gas to surface while bleeding thru 2 inch

FF: BOB, 20 sec, Gas to surface, TSTM.

FS: BOB, 20 sec. decreasing to 10 inch in bucket, gas



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1533.63	102.57	Initial Hydro-static
1	156.18	102.30	Open To Flow (1)
14	228.87	103.20	Shut-In(1)
66	989.43	103.91	End Shut-In(1)
67	247.54	103.21	Open To Flow (2)
79	308.17	103.60	Shut-In(2)
139	992.93	103.92	End Shut-In(2)
141	1500.48	104.22	Final Hydro-static

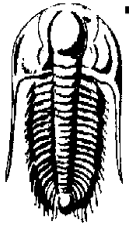
## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MO 20%=m 80%=o	0.84
652.00	GO 10%=g 90%=o	9.15

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sam Gary Jr. & assoc. inc.

**Boxberger #2-36**

1515 Wynkoop, Ste 700  
Denver Co. 80202

**36-15s-16w Ellis**

Job Ticket: 039888

**DST#: 1**

ATTN: Tom Fertal

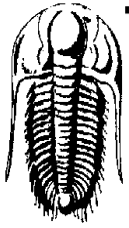
Test Start: 2010.07.21 @ 05:25:01

### Tool Information

Drill Pipe:	Length: 3165.00 ft	Diameter: 3.80 inches	Volume: 44.40 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 59000.00 lb
			<u>Total Volume: 44.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3173.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 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			3146.00	
Shut In Tool	5.00			3151.00	
Hydraulic tool	5.00			3156.00	
Jars	5.00			3161.00	
Safety Joint	3.00			3164.00	
Packer	5.00			3169.00	28.00 Bottom Of Top Packer
Packer	4.00			3173.00	
Stubb	1.00			3174.00	
Recorder	0.00	6668	Inside	3174.00	
Recorder	0.00	6669	Outside	3174.00	
Perforations	3.00			3177.00	
Change Over Sub	1.00			3178.00	
Drill Pipe	31.00			3209.00	
Change Over Sub	1.00			3210.00	
Perforations	20.00			3230.00	
Bullnose	3.00			3233.00	60.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>88.00</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & assoc. inc.

**Boxberger #2-36**

1515 Wynkoop, Ste 700  
Denver Co. 80202

**36-15s-16w Ellis**

Job Ticket: 039888

**DST#: 1**

ATTN: Tom Fertal

Test Start: 2010.07.21 @ 05:25:01

## 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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MO 20%=m 80%=o	0.842
652.00	GO 10%=g 90%=o	9.146

Total Length: 712.00 ft      Total Volume: 9.988 bbl

Num Fluid Samples: 0

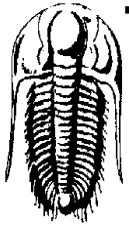
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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

# DRILL STEM TEST REPORT

**GAS RATES**

Sam Gary Jr. & assoc. inc.

**Boxberger #2-36**

1515 Wynkoop, Ste 700  
Denver Co. 80202

**36-15s-16w Ellis**

Job Ticket: 039888

**DST#: 1**

ATTN: Tom Fertal

Test Start: 2010.07.21 @ 05:25:01

## Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
		0.00	0.00	0.00

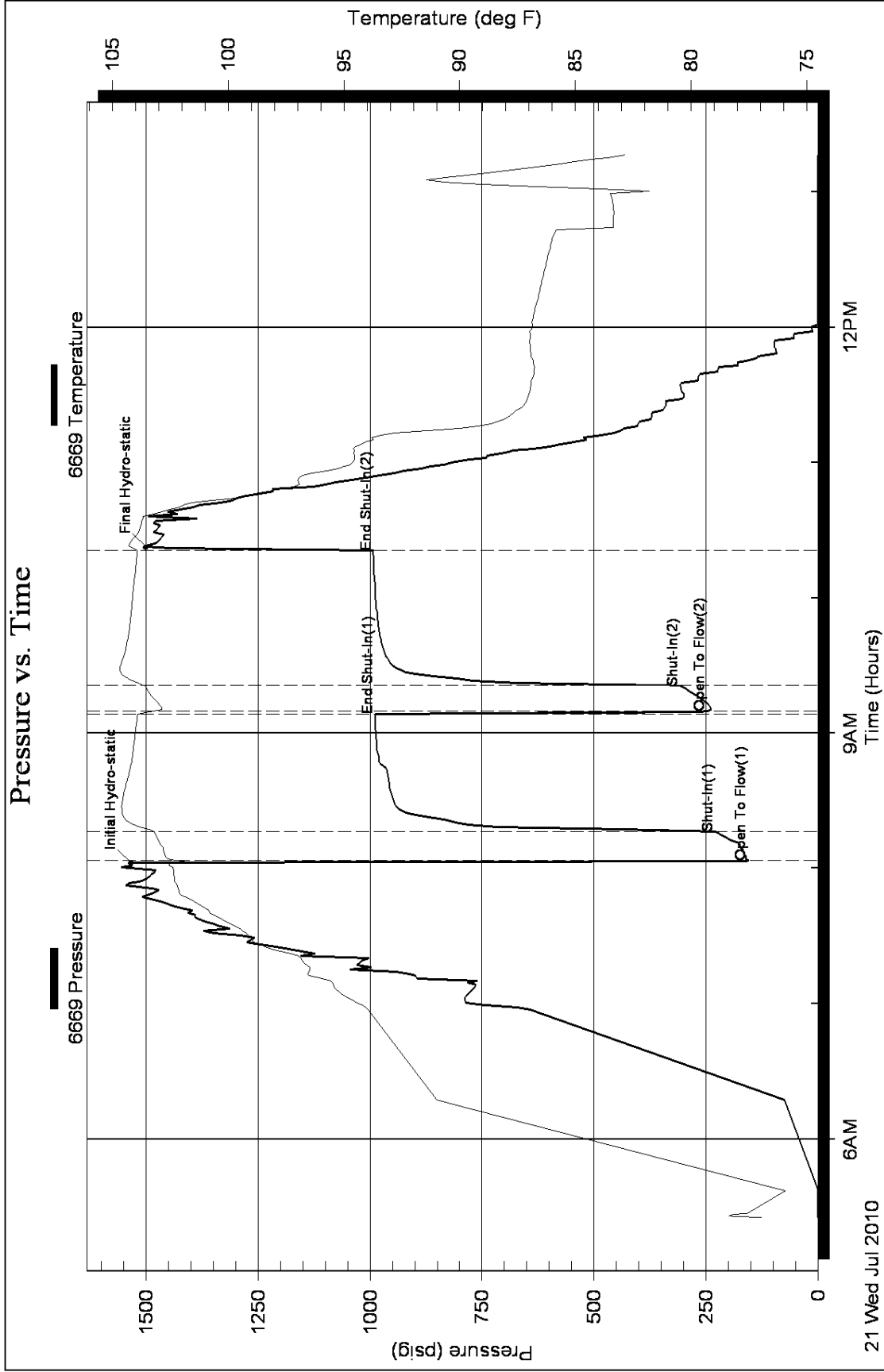


Serial #: 6669

Outside Sam Gary Jr. & assoc. inc.

36-15s-16w Ellis

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 039888

Printed: 2010.07.21 @ 13:44:55 Page 7

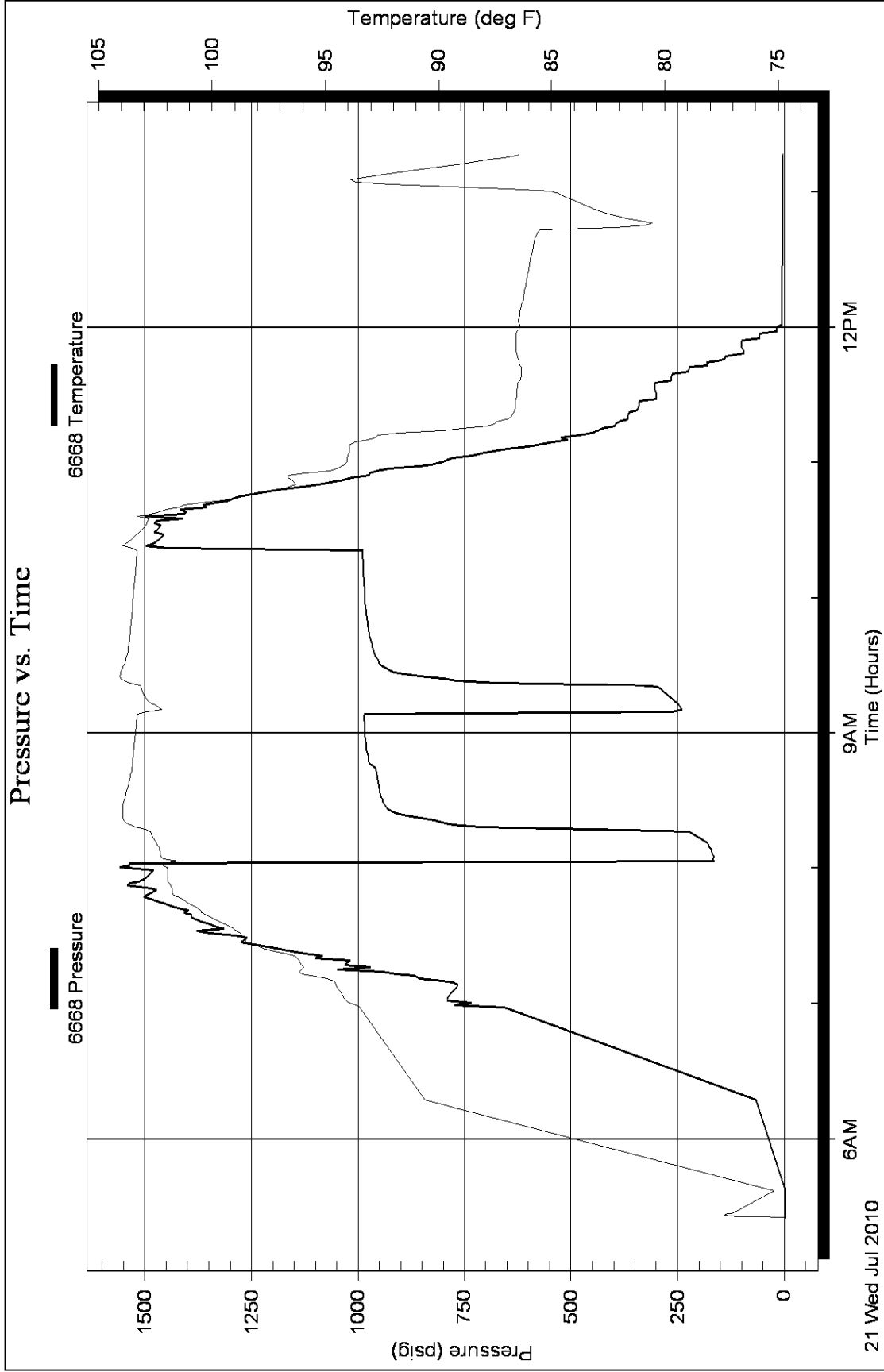
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Inside

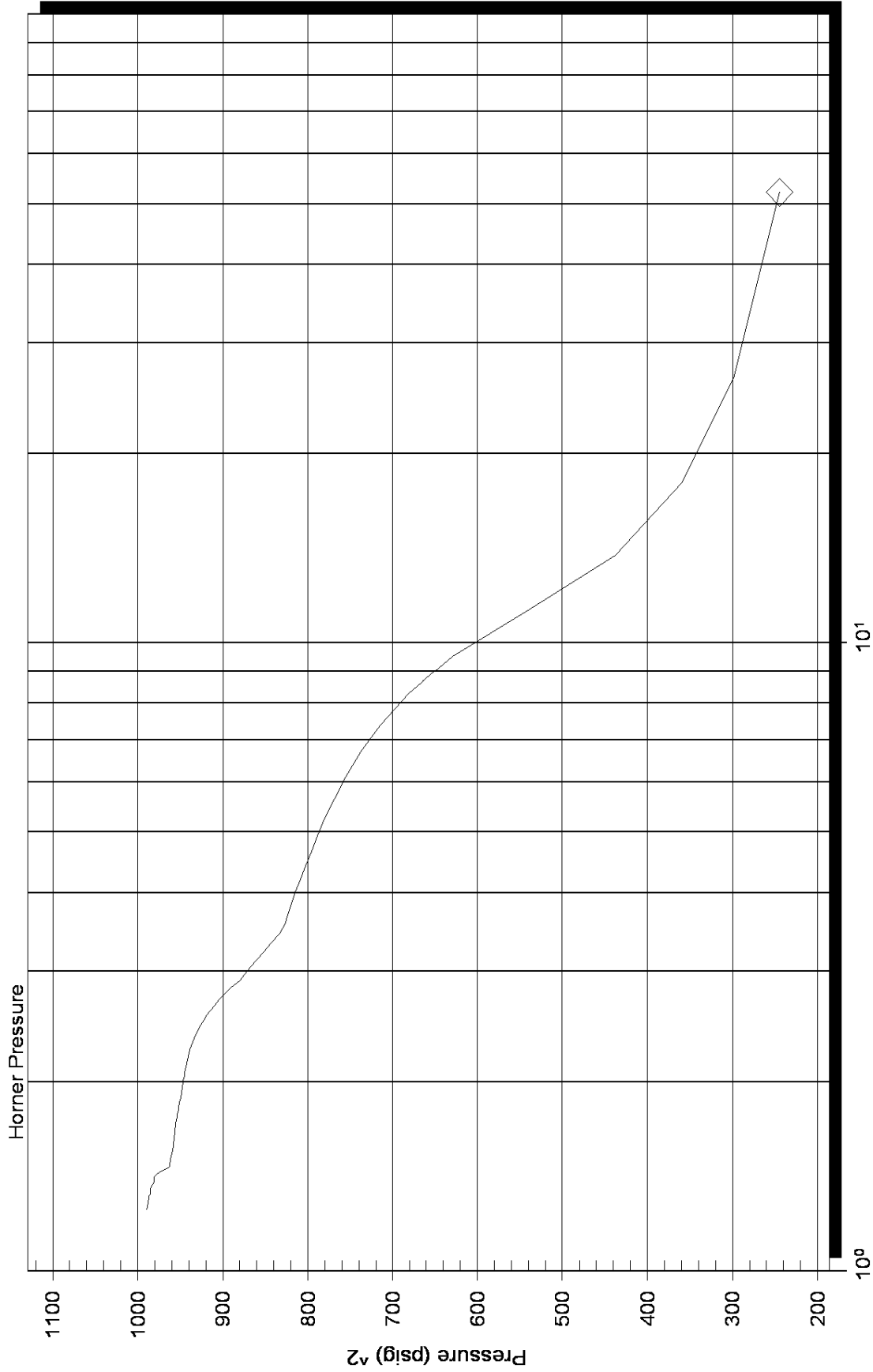
Sam Gary Jr. & assoc. inc.

36-15s-16w Ellis

DST Test Number: 1



### Homer Plot



Serial Number: 6669 (Outside)

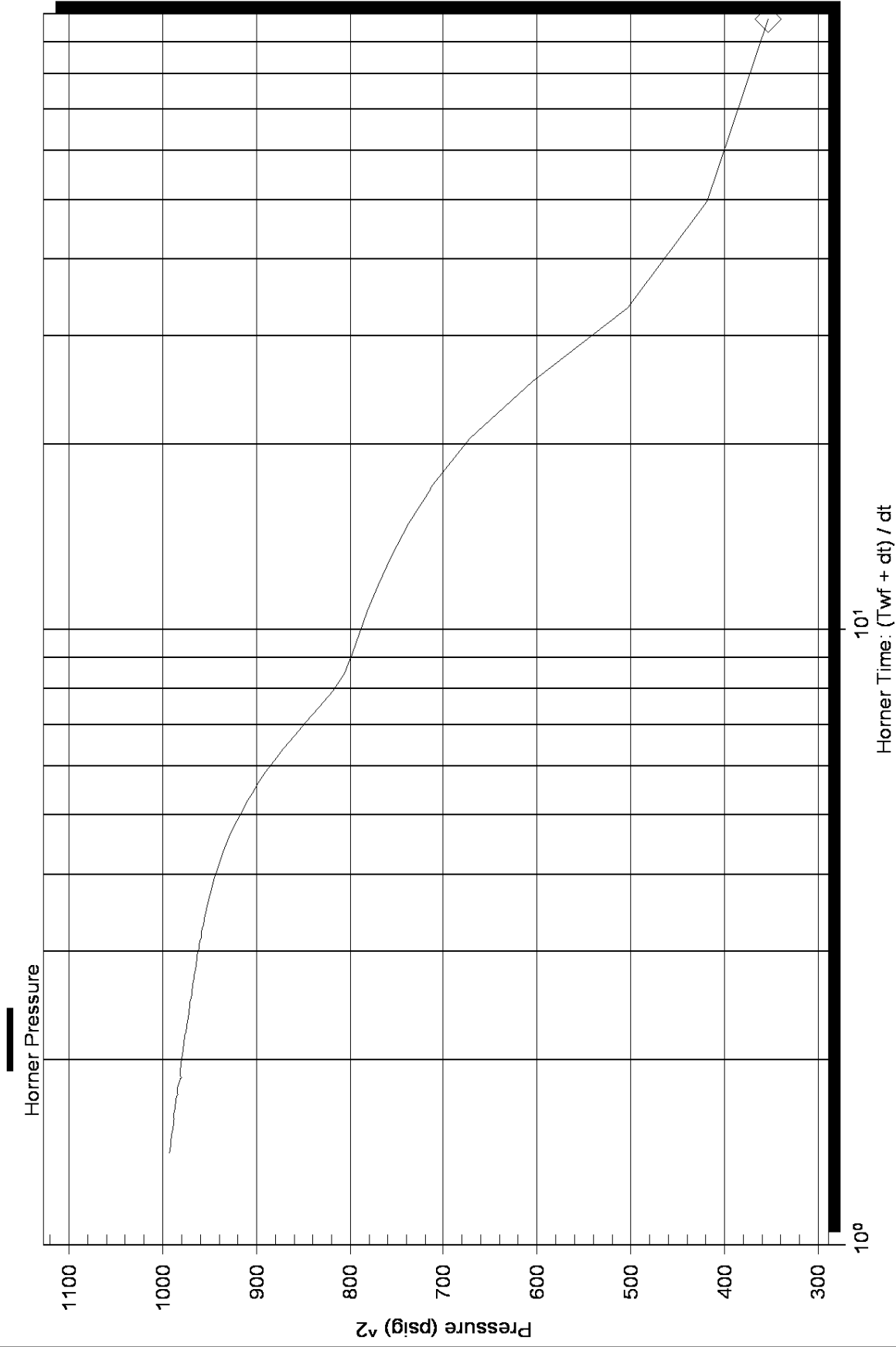
P\* :

Horner Time: (Twf + dt) / dt

Slope (m) : kpa/log cycle

Flow Cycle: 1

### Homer Plot



Serial Number: 6669 (Outside)

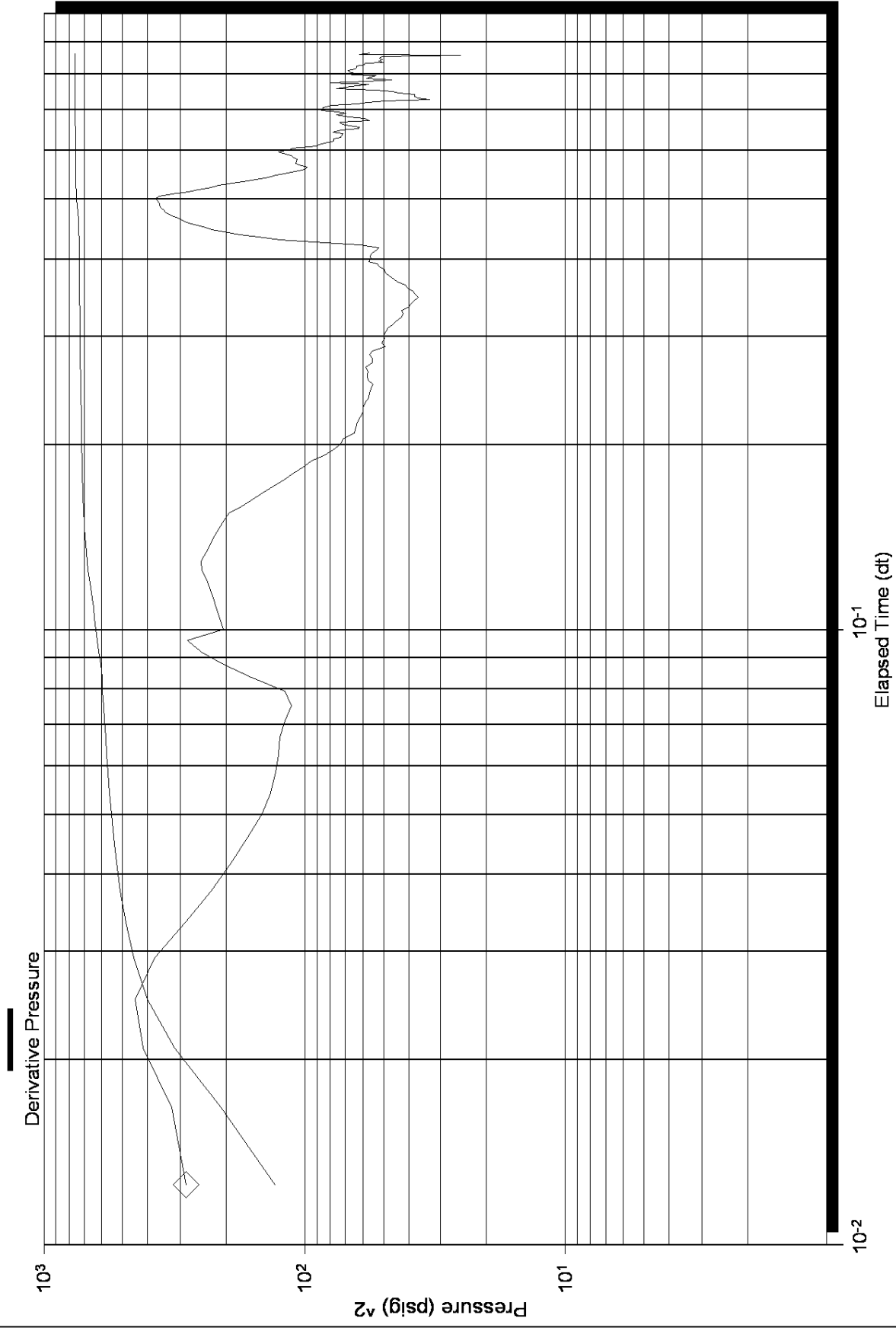
P\* :

Slope (m) : kpa/log cycle

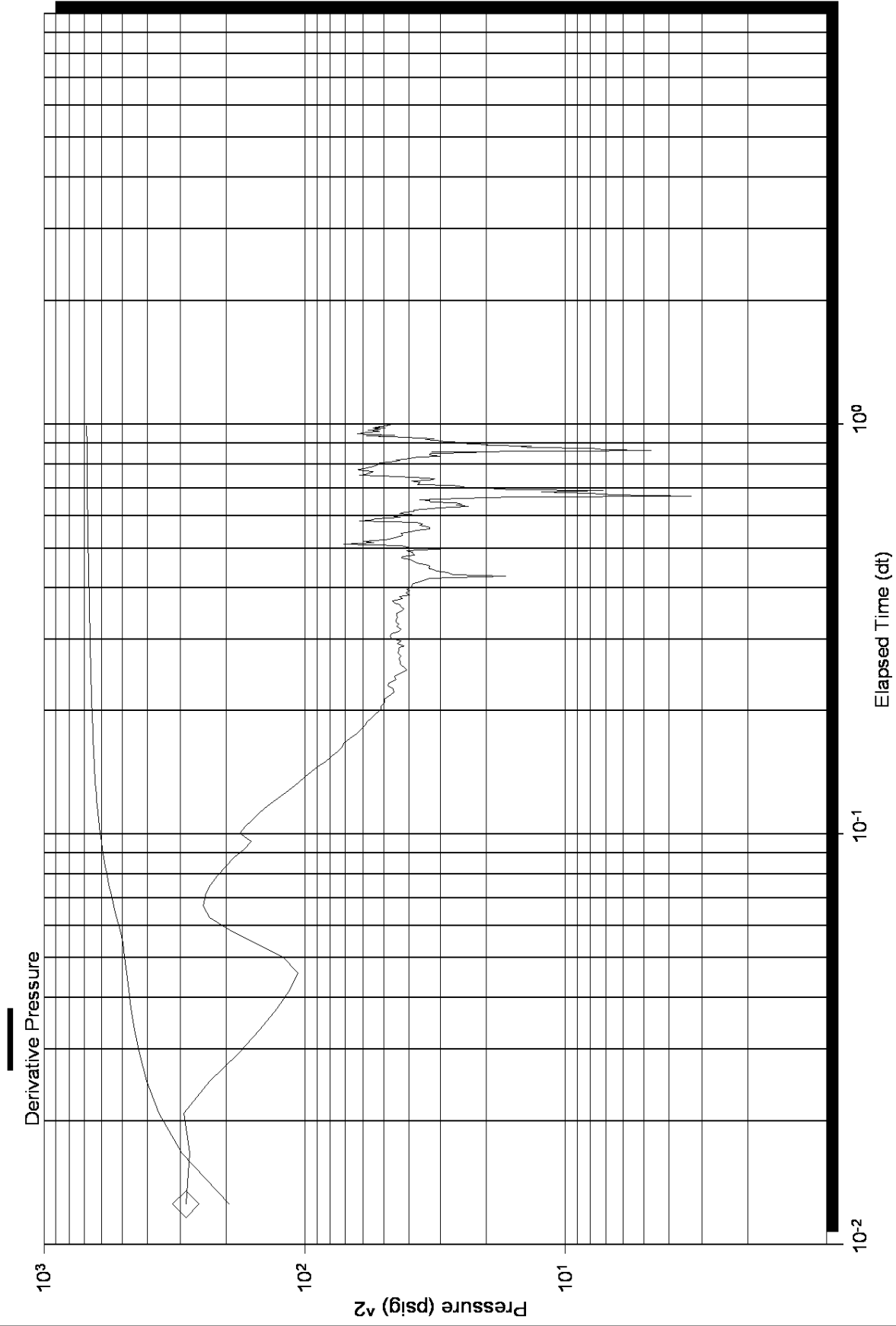
Horner Time: (Twf + dt) / dt

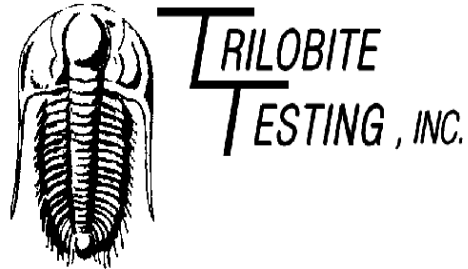
Flow Cycle: 2

### Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Derivative





## DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr.& assoc.inc.**

1515 Wynkoop, Ste 700  
Denver Co. 80202

ATTN: Tom Fertal

**36-15s-16w Ellis**

**Boxberger #2-36**

Start Date: 2010.07.21 @ 23:00:01

End Date: 2010.07.22 @ 06:12:15

Job Ticket #: 039889      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Sam Gary Jr.& assoc.inc.

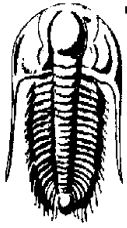
Boxberger #2-36

36-15s-16w Ellis

DST # 2

LKC-D&E

2010.07.21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Sam Gary Jr. & assoc. inc.  
 1515 Wynkoop, Ste 700  
 Denver Co. 80202  
 ATTN: Tom Fertal

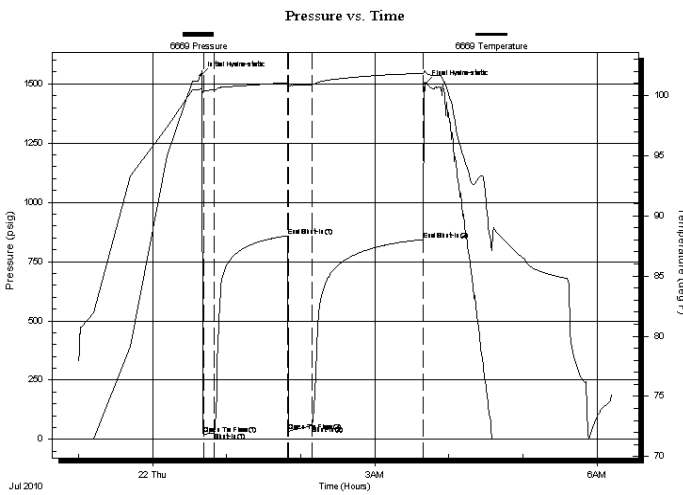
**Boxberger #2-36**  
**36-15s-16w Ellis**  
 Job Ticket: 039889 **DST#: 2**  
 Test Start: 2010.07.21 @ 23:00:01

## GENERAL INFORMATION:

Formation: **LKC-D&E**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:41:30  
 Time Test Ended: 06:12:15  
 Test Type: Conventional Bottom Hole  
 Tester: Andy Carreira  
 Unit No: 53  
 Interval: **3236.00 ft (KB) To 3258.00 ft (KB) (TVD)**  
 Total Depth: 3233.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Reference Elevations: 1930.00 ft (KB)  
 1922.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6669 Outside**  
 Press@RunDepth: 58.51 psig @ 3237.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2010.07.21 End Date: 2010.07.22 Last Calib.: 2010.07.22  
 Start Time: 23:00:01 End Time: 06:12:15 Time On Btm: 2010.07.22 @ 00:38:45  
 Time Off Btm: 2010.07.22 @ 03:41:00

**TEST COMMENT:** IF: BOB, 2 min  
 IS: Return blow, 3 min after bled off, half inch, steady.  
 FF: BOB, right away.  
 FS: Return blow, 2 min after bled off, building to 9 inches



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1534.61	100.57	Initial Hydro-static
3	22.86	100.34	Open To Flow (1)
11	28.75	100.47	Shut-In(1)
71	858.40	101.08	End Shut-In(1)
72	32.81	100.81	Open To Flow (2)
91	58.51	100.92	Shut-In(2)
181	843.13	101.85	End Shut-In(2)
183	1499.54	101.96	Final Hydro-static

## Recovery

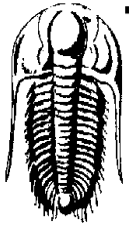
Length (ft)	Description	Volume (bbl)
124.00	GMCO 10%=g 10%=m 80%=o	1.74
0.00	1984 ft = GIP	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sam Gary Jr. & assoc. inc.

**Boxberger #2-36**

1515 Wynkoop, Ste 700  
Denver Co. 80202

**36-15s-16w Ellis**

Job Ticket: 039889

**DST#: 2**

ATTN: Tom Fertal

Test Start: 2010.07.21 @ 23:00:01

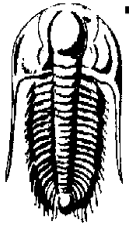
### Tool Information

Drill Pipe:	Length: 3223.00 ft	Diameter: 3.80 inches	Volume: 45.21 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 45.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3236.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 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			3209.00	
Shut In Tool	5.00			3214.00	
Hydraulic tool	5.00			3219.00	
Jars	5.00			3224.00	
Safety Joint	3.00			3227.00	
Packer	5.00			3232.00	28.00 Bottom Of Top Packer
Packer	4.00			3236.00	
Stubb	1.00			3237.00	
Recorder	0.00	6668	Inside	3237.00	
Recorder	0.00	6669	Outside	3237.00	
Perforations	18.00			3255.00	
Bullnose	3.00			3258.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Sam Gary Jr. & assoc. inc.

**Boxberger #2-36**

1515 Wynkoop, Ste 700  
Denver Co. 80202

**36-15s-16w Ellis**

Job Ticket: 039889

**DST#: 2**

ATTN: Tom Fertal

Test Start: 2010.07.21 @ 23:00:01

## 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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GMCO 10%=g 10%=m 80%=o	1.739
0.00	1984 ft = GIP	0.000

Total Length: 124.00 ft      Total Volume: 1.739 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

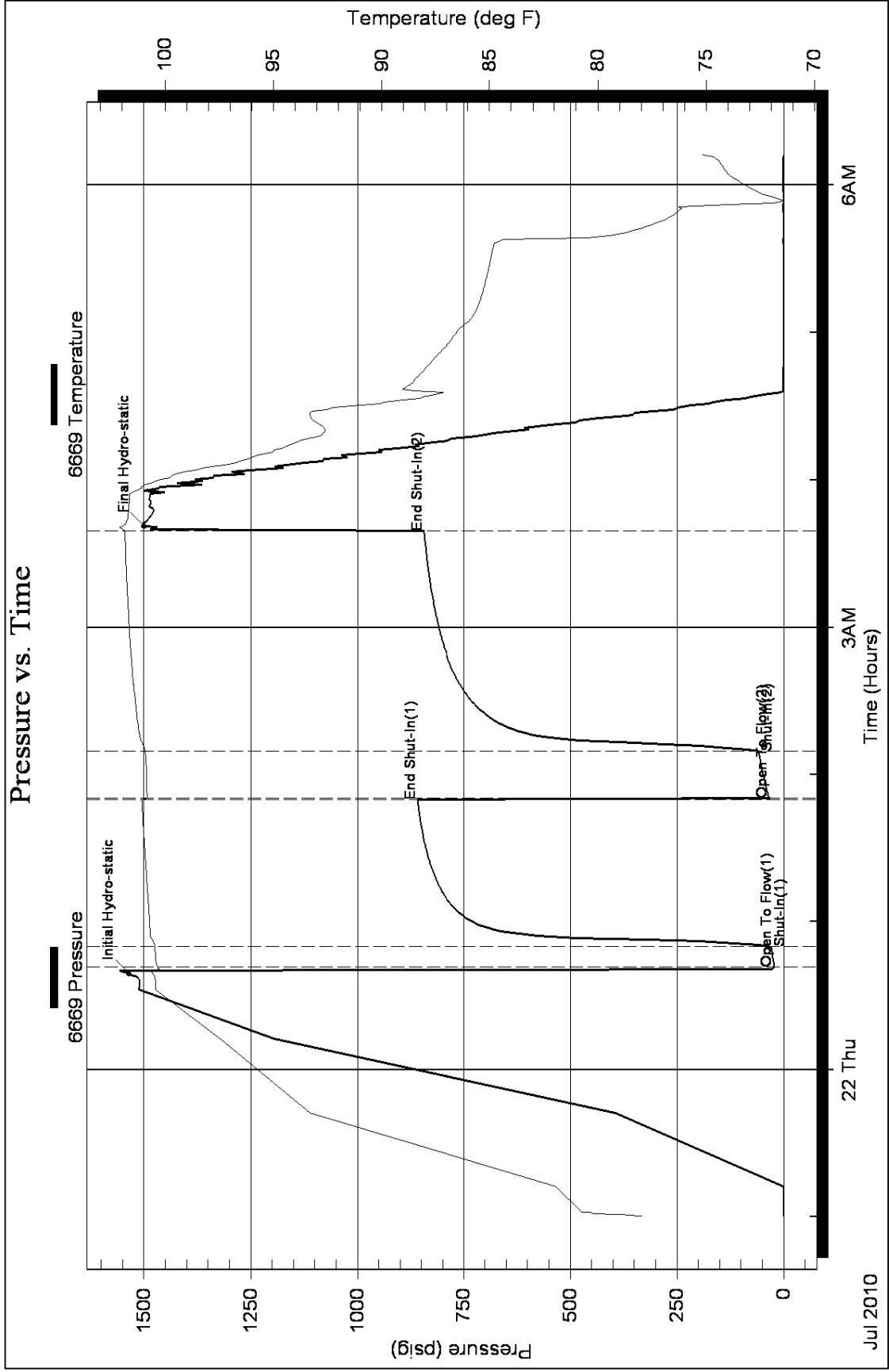
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



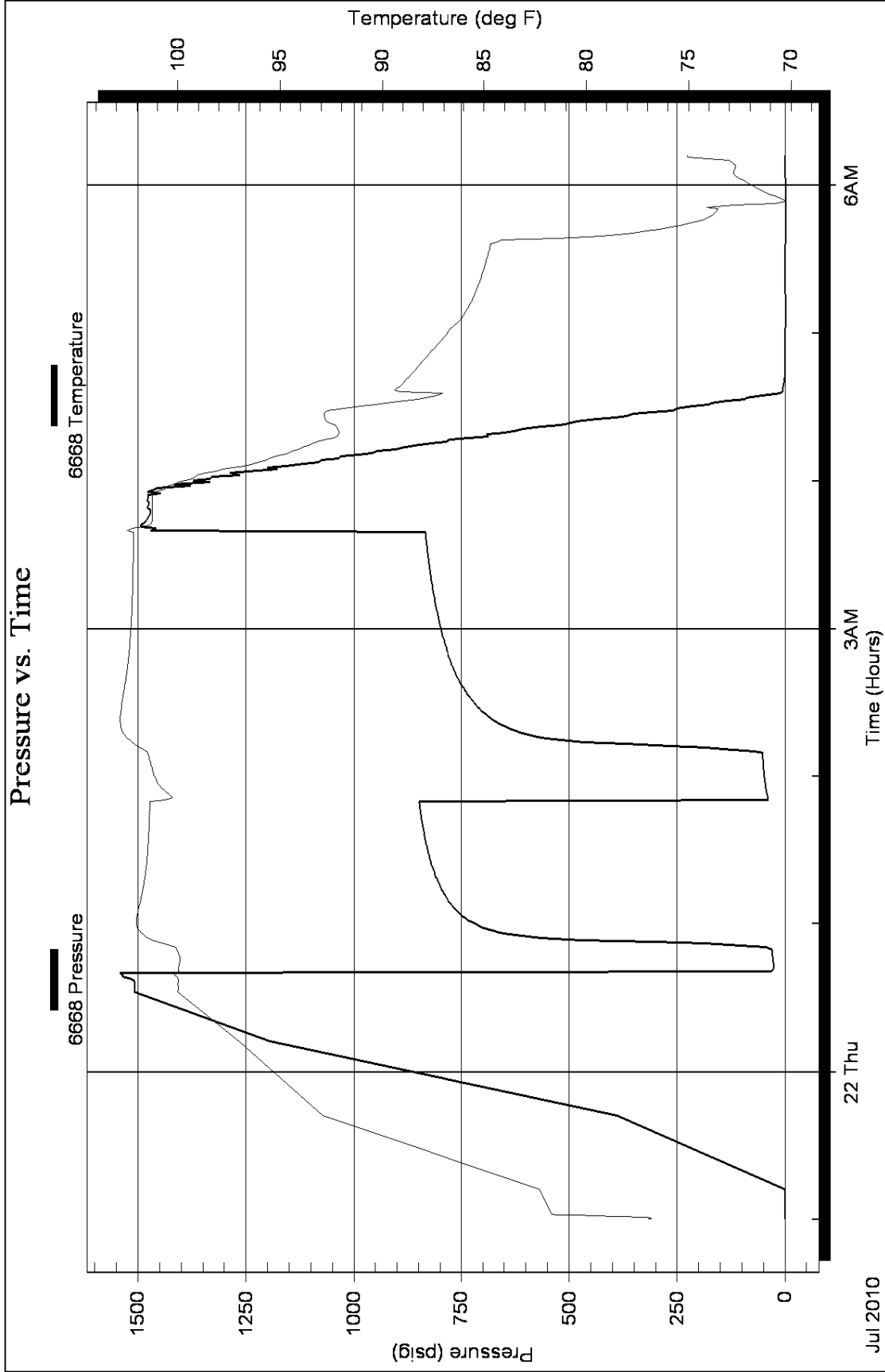
Serial #: 6668

Inside

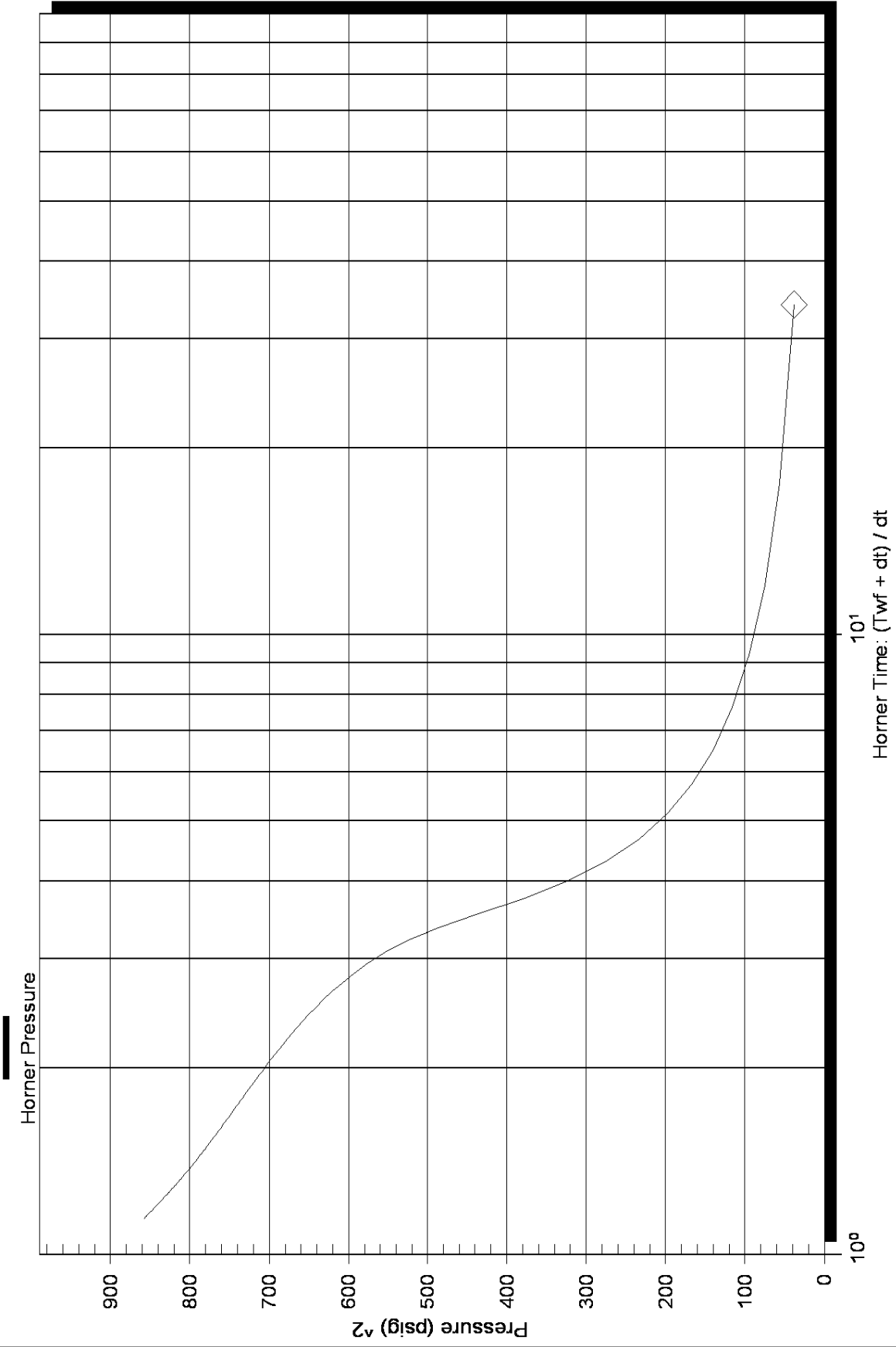
Sam Gary Jr. & assoc. inc.

36-15s-16w Ellis

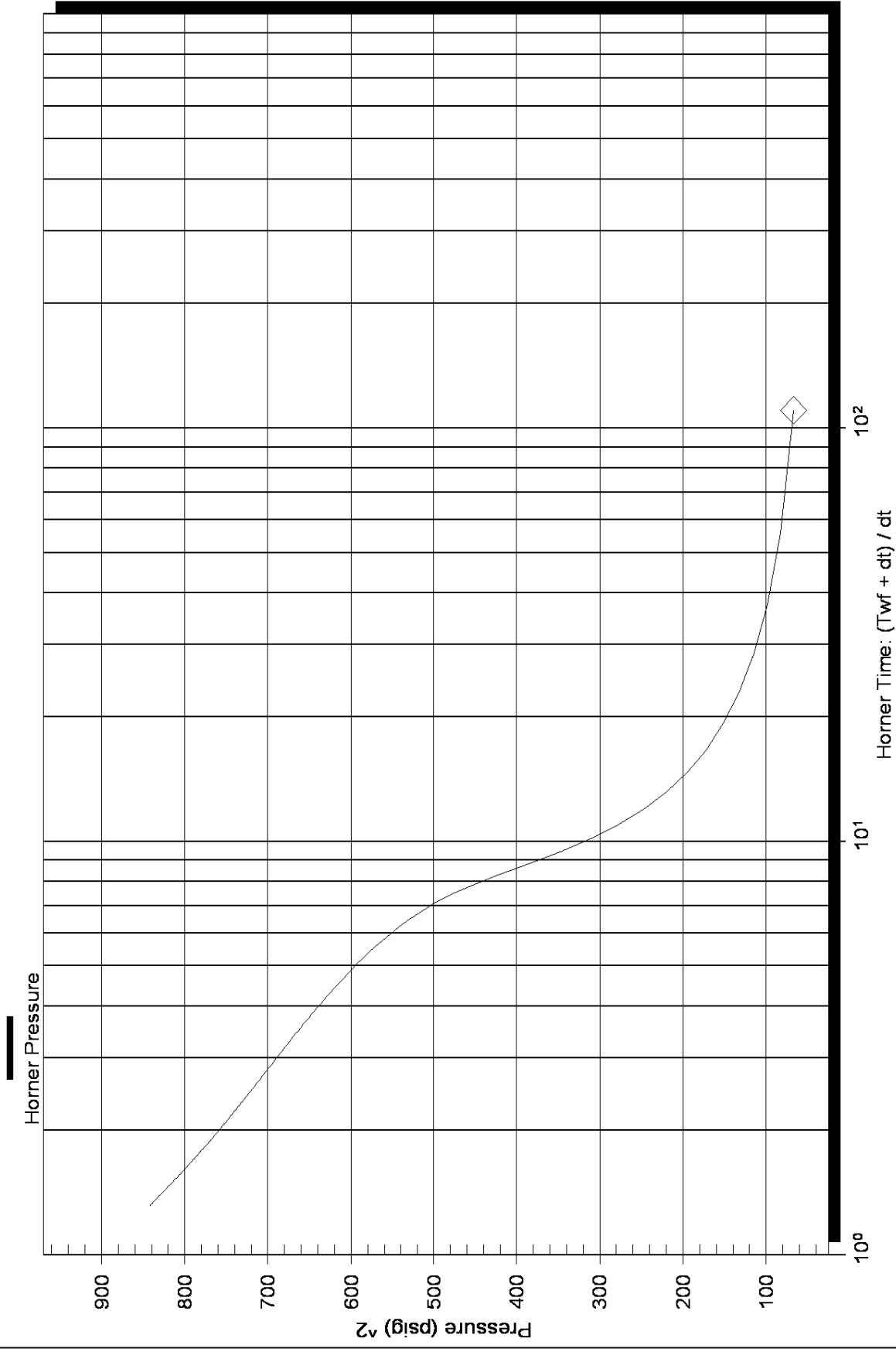
DST Test Number: 2



### Horner Plot



# Horner Plot

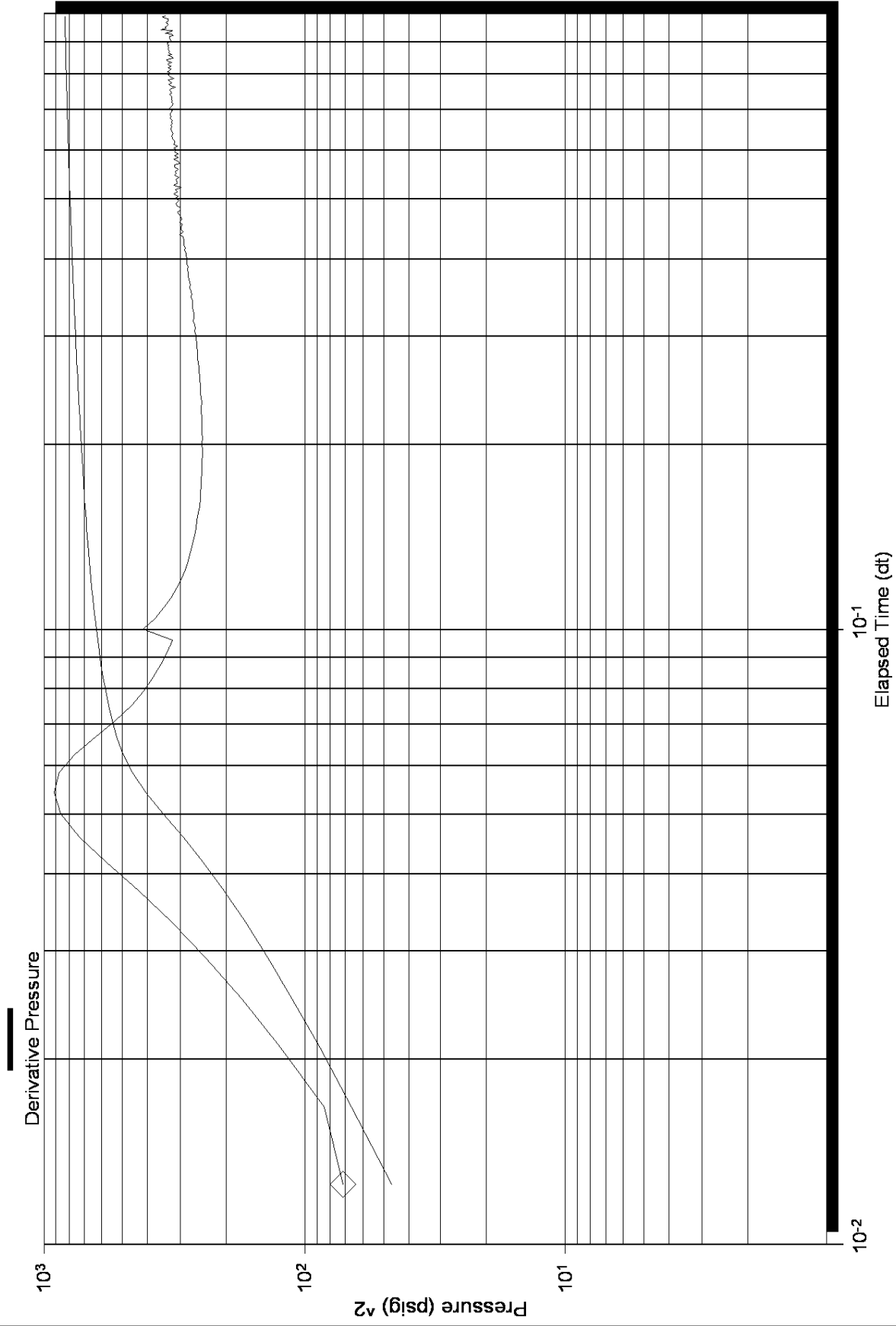


Serial Number: 6669 (Outside)

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

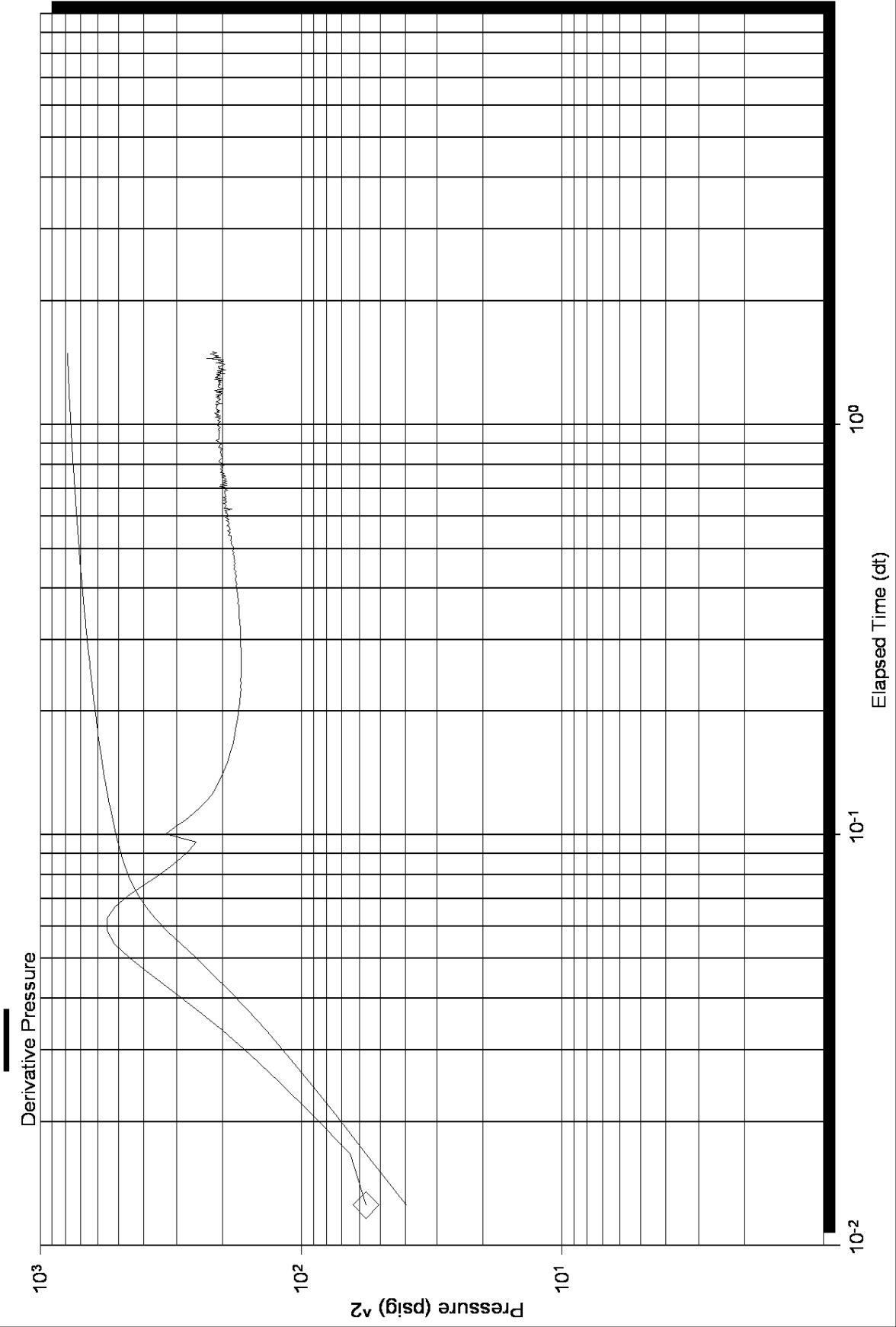
Flow Cycle: 2

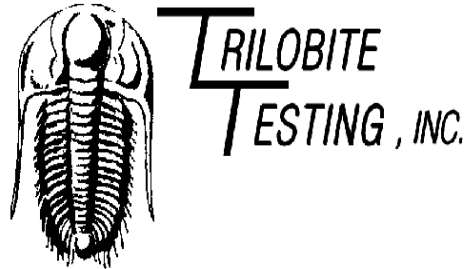
# Log-Log and Pseudo-Derivative





# Log-Log and Pseudo-Log-Derivative





## DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr.& assoc.inc.**

1515 Wynkoop, Ste 700  
Denver Co. 80202

ATTN: Tom Fertal

**36-15s-16w Ellis**

**Boxberger #2-36**

Start Date: 2010.07.22 @ 13:50:01

End Date: 2010.07.22 @ 22:43:00

Job Ticket #: 039890      DST #: 3

Trilobite Testing, Inc

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

Sam Gary Jr.& assoc.inc.

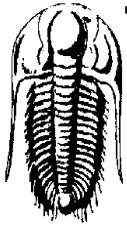
Boxberger #2-36

36-15s-16w Ellis

DST # 3

LKC-F

2010.07.22



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Sam Gary Jr. & assoc. inc.

**Boxberger #2-36**

1515 Wynkoop, Ste 700  
Denver Co. 80202

**36-15s-16w Ellis**

Job Ticket: 039890

**DST#: 3**

ATTN: Tom Fertal

Test Start: 2010.07.22 @ 13:50:01

## GENERAL INFORMATION:

Formation: **LKC-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:33:45

Time Test Ended: 22:43:00

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 53

**Interval: 3257.00 ft (KB) To 3278.00 ft (KB) (TVD)**

Reference Elevations: 1930.00 ft (KB)

Total Depth: 3233.00 ft (KB) (TVD)

1922.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6669 Outside**

Press@RunDepth: 89.87 psig @ 3258.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.22

End Date:

2010.07.22

Last Calib.:

2010.07.22

Start Time: 13:50:01

End Time:

22:43:00

Time On Btm:

2010.07.22 @ 15:31:45

Time Off Btm:

2010.07.22 @ 20:08:15

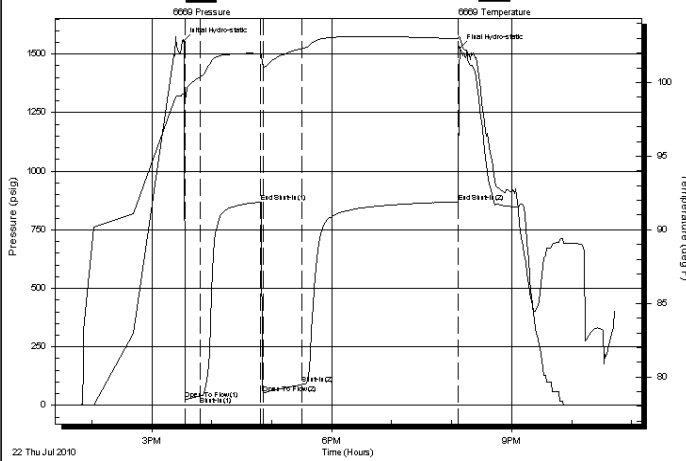
TEST COMMENT: IF: BOB, 2 min.

IS: No return

FF: BOB, right away

FS: Return blow 2 min after bleedoff, building to BOB, 30 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1555.81	99.23	Initial Hydro-static
2	26.02	98.92	Open To Flow (1)
17	40.67	100.39	Shut-In(1)
78	868.19	101.97	End Shut-In(1)
80	52.81	101.12	Open To Flow (2)
119	89.87	102.32	Shut-In(2)
275	869.27	102.99	End Shut-In(2)
277	1527.06	102.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOM g=40% o=30% m=30%	0.87
186.00	GO	2.61
0.00	2356 ft = GIP	0.00

Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sam Gary Jr. & assoc. inc.

**Boxberger #2-36**

1515 Wynkoop, Ste 700  
Denver Co. 80202

**36-15s-16w Ellis**

Job Ticket: 039890

**DST#: 3**

ATTN: Tom Fertal

Test Start: 2010.07.22 @ 13:50:01

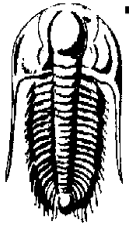
### Tool Information

Drill Pipe:	Length: 3249.00 ft	Diameter: 3.80 inches	Volume: 45.57 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 45.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3257.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3230.00	
Shut In Tool	5.00			3235.00	
Hydraulic tool	5.00			3240.00	
Jars	5.00			3245.00	
Safety Joint	3.00			3248.00	
Packer	5.00			3253.00	28.00 Bottom Of Top Packer
Packer	4.00			3257.00	
Stubb	1.00			3258.00	
Recorder	0.00	6668	Inside	3258.00	
Recorder	0.00	6669	Outside	3258.00	
Perforations	17.00			3275.00	
Bullnose	3.00			3278.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & assoc.inc.

**Boxberger #2-36**

1515 Wynkoop, Ste 700  
Denver Co. 80202

**36-15s-16w Ellis**

Job Ticket: 039890

**DST#: 3**

ATTN: Tom Fertal

Test Start: 2010.07.22 @ 13:50:01

## 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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GOM g=40% o=30% m=30%	0.870
186.00	GO	2.609
0.00	2356 ft = GIP	0.000

Total Length: 248.00 ft      Total Volume: 3.479 bbl

Num Fluid Samples: 0

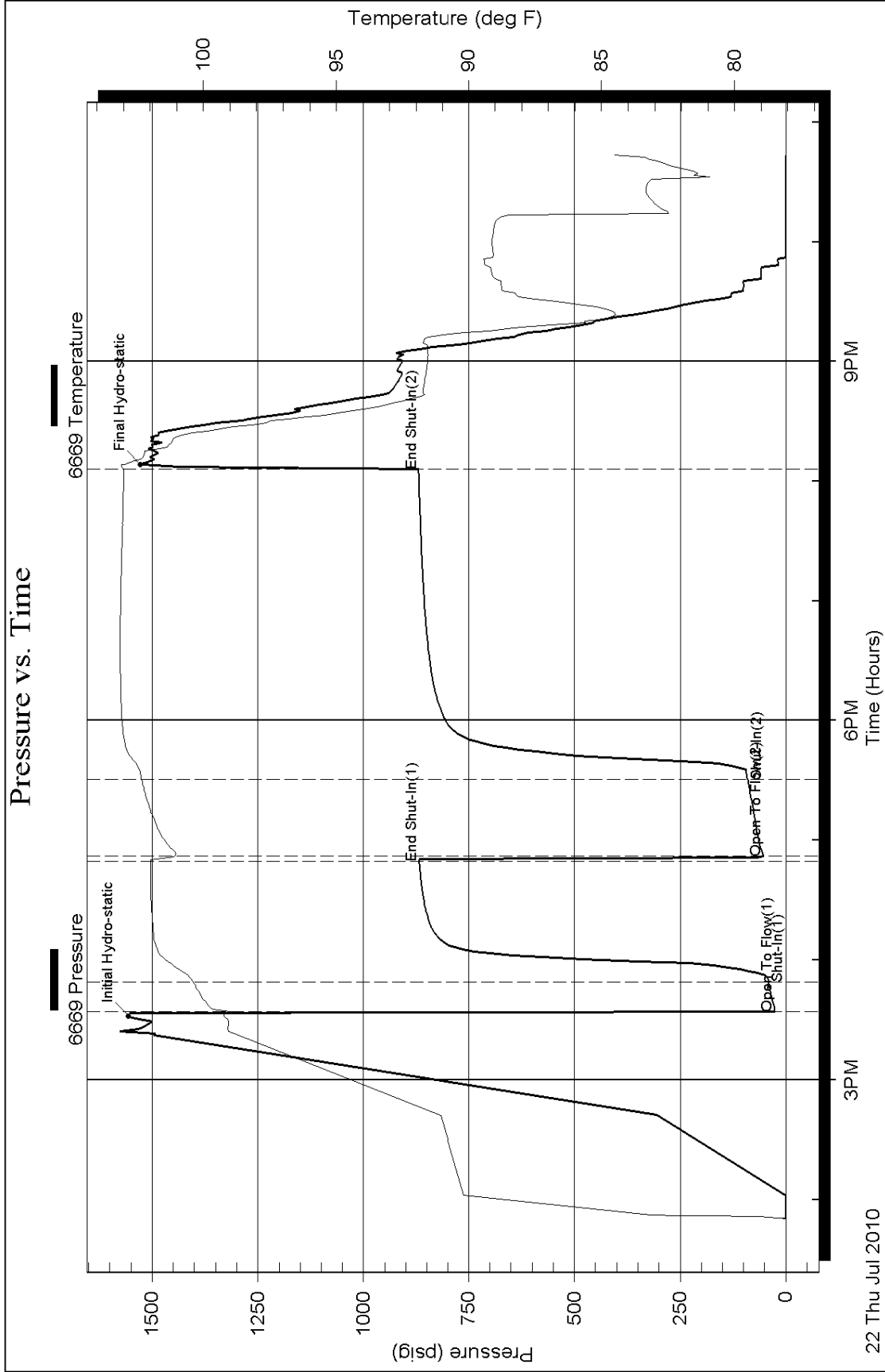
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



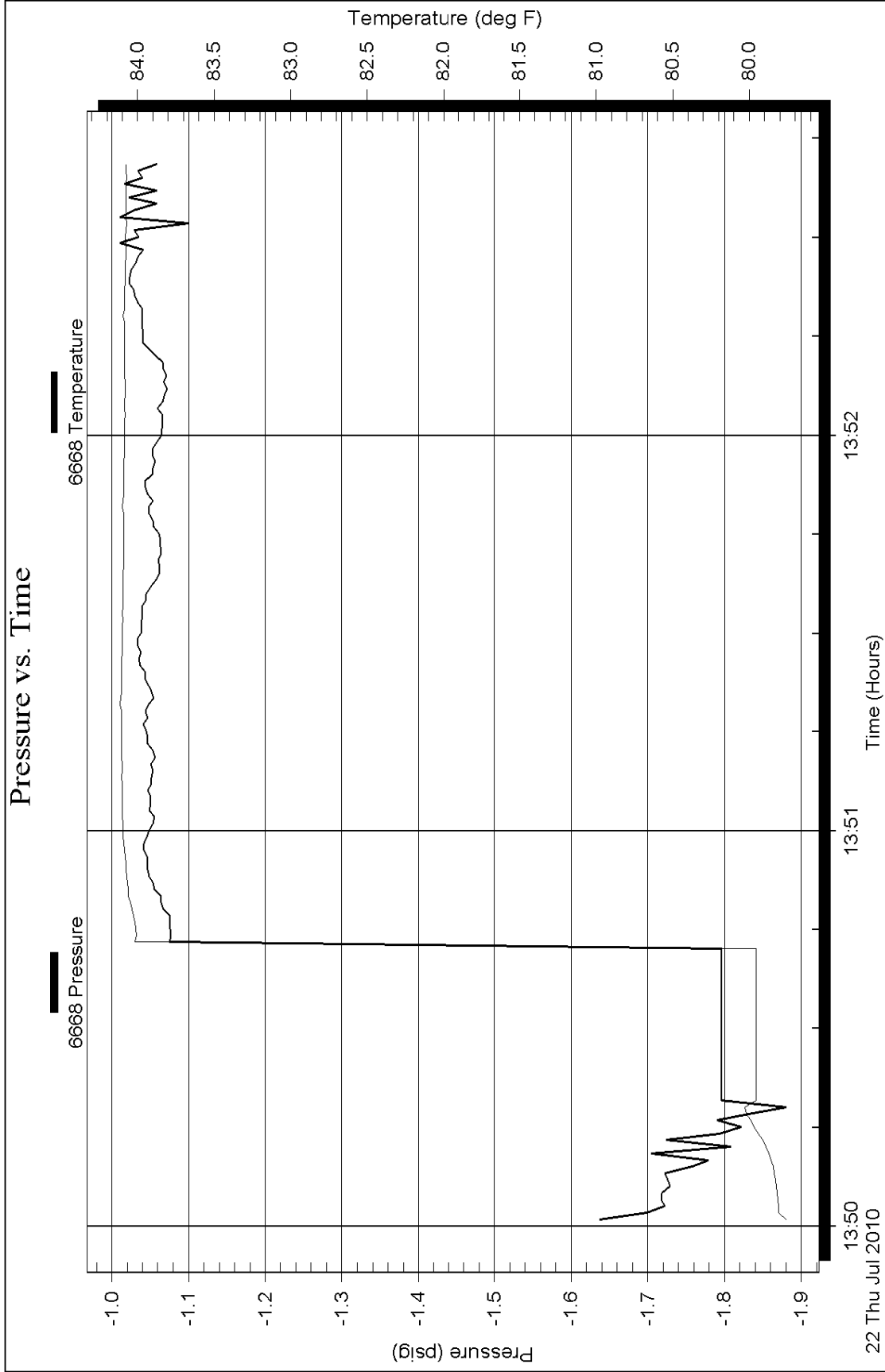
Serial #: 6668

Inside

Sam Gary Jr. & assoc. inc.

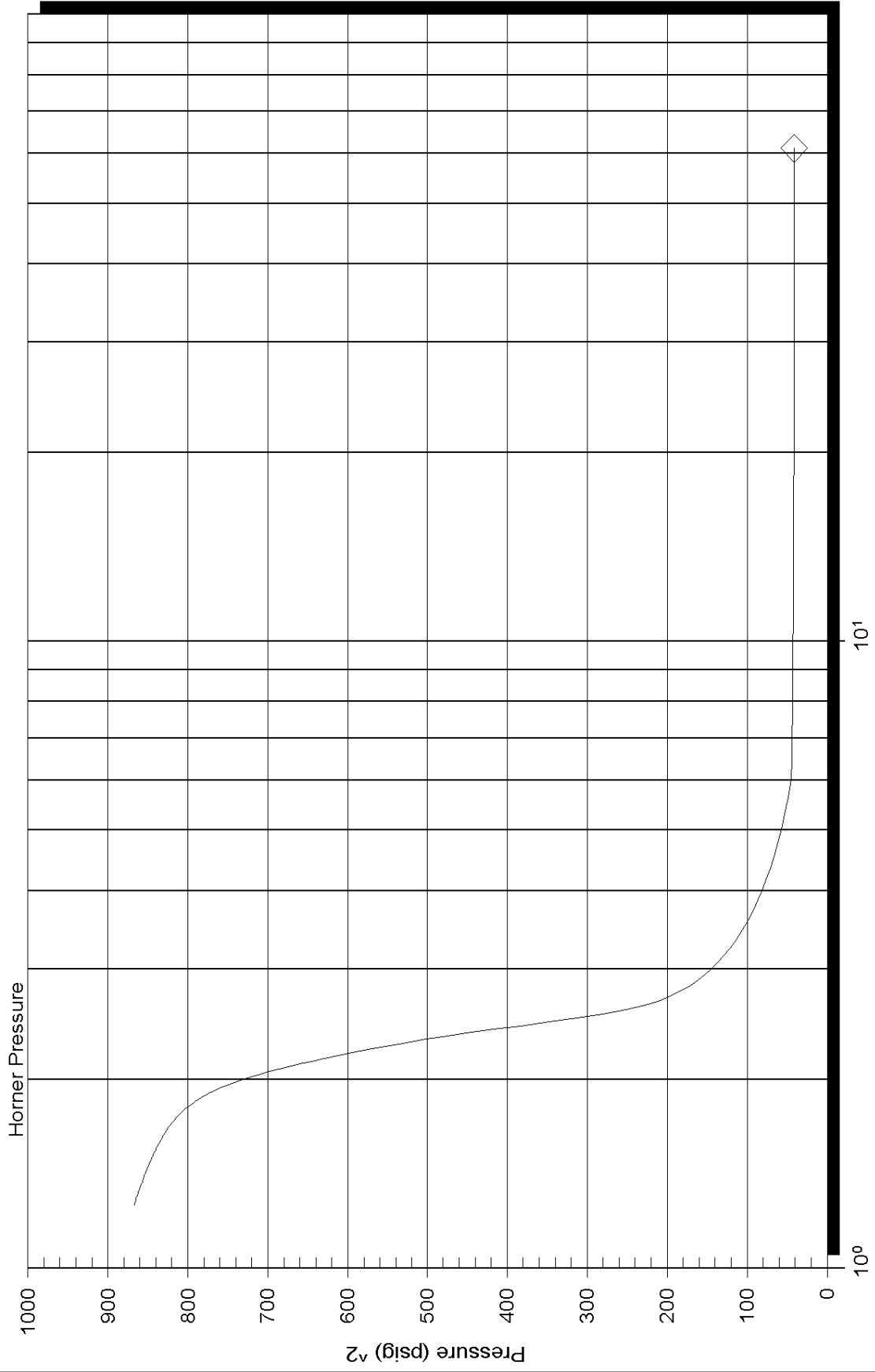
36-15s-16w Ellis

DST Test Number: 3





# Horner Plot



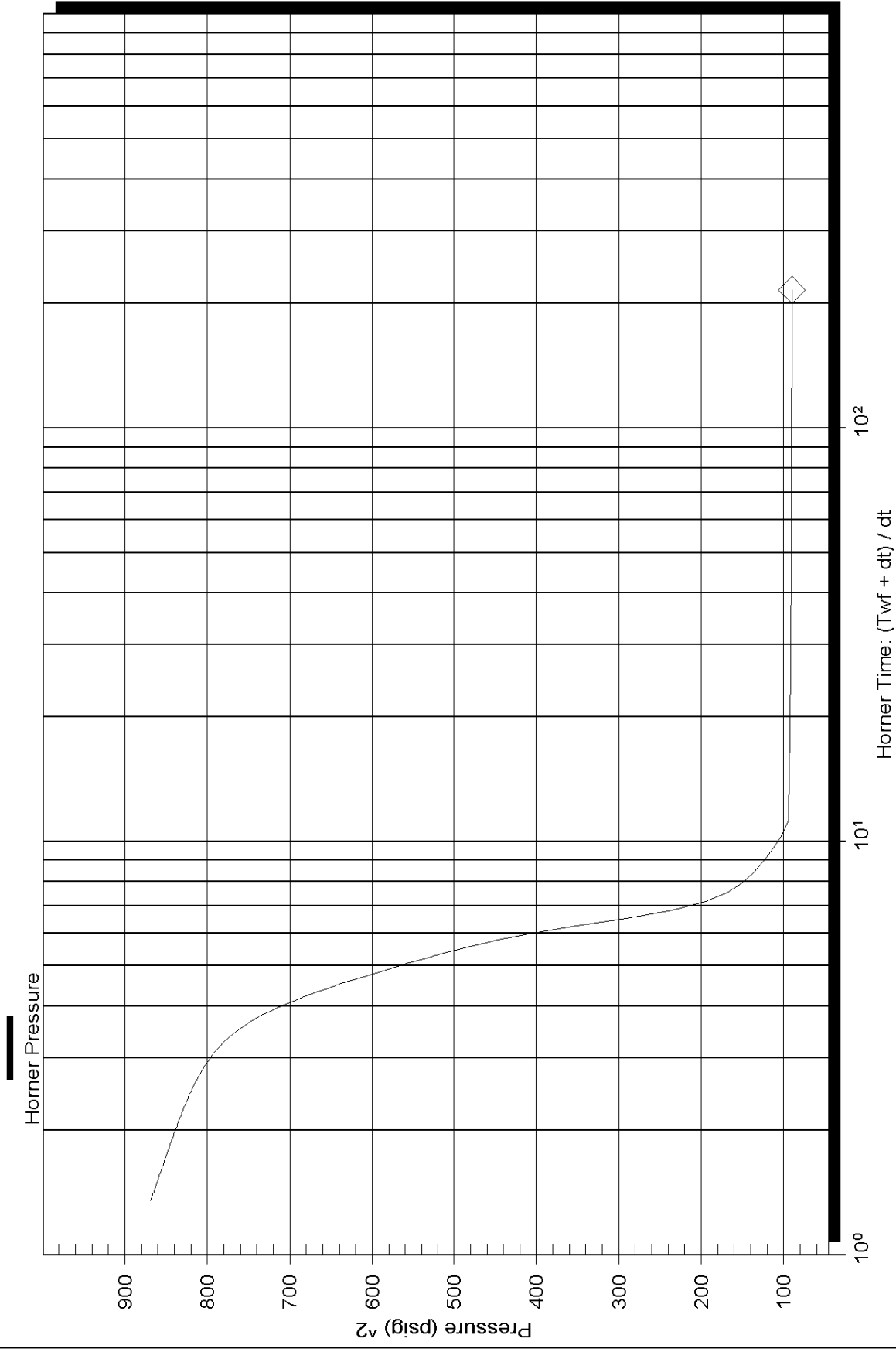
Serial Number: 6669 (Outside)

P\* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

### Horner Plot

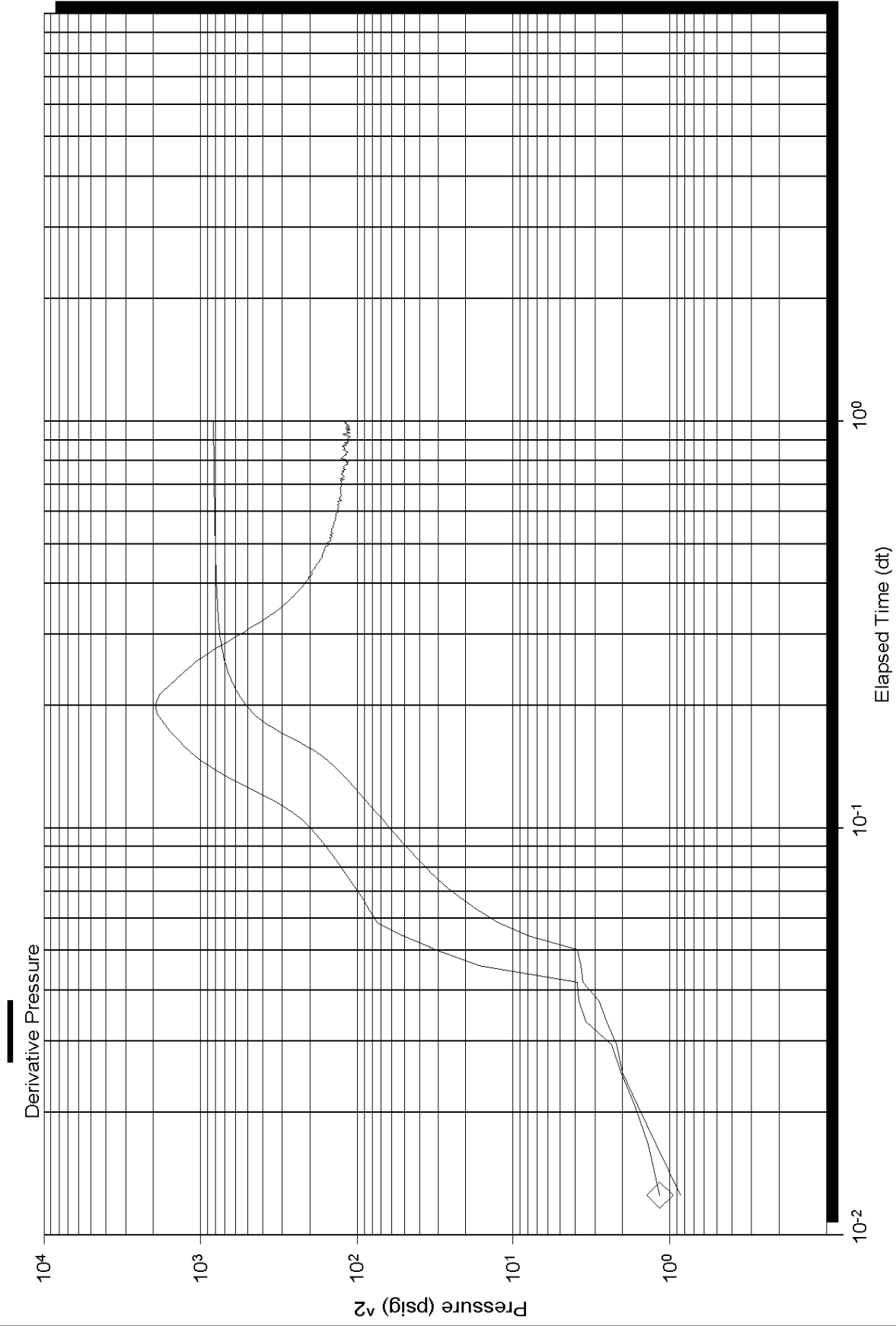


Serial Number: 6669 (Outside)

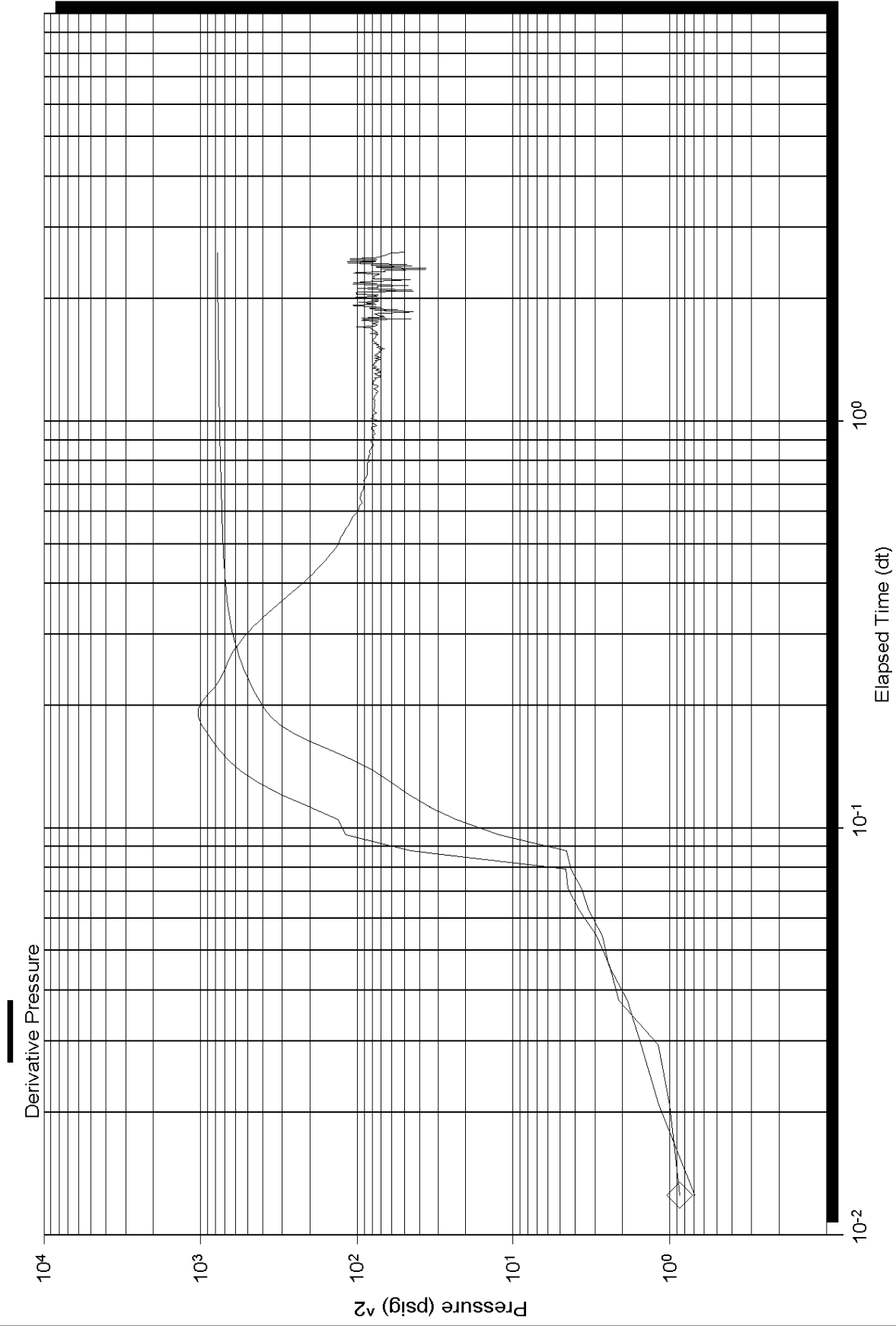
P\* : Slope (m) : kpa/log cycle

Flow Cycle: 2

# Log-Log and Pseudo-Log-Derivative



# Log-Log and Pseudo-Log-Derivative





**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 # 4164

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:**

BOXBERGER 2-36

**Description of Work:**

LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Item	Quantity	Price
Surface Job	1	\$0.00			
Truckage-from Job location to Nearest Camp	22	\$172.97	8 5/8" Top Rubber Plug	1	\$91.66
Premium Gel (Bentonite)	8	\$112.62	8 5/8" Centralizer	3	\$166.03
Flo Seal	100	\$172.95	8 5/8" Basket	3	\$819.77
Common-Class A	400	\$4,046.96			
Calcium Chloride	14	\$0.00			
Truckage-from Job location to Nearest Bulk Plant	22	\$101.22			
Truck Material-Material Service Charge	422	\$664.91			
Baffle Plate Aluminum, 8 5/8"	1	\$77.83			

**Invoice Terms:** Labor: \$629.79

Net 30

Quoted by: Dave Funk

SubTotal: \$ 8,172.37

Discount Available ONLY if Invoice is Paid &  
 Received within listed terms of invoice: \$ (1,225.86)

Total: \$ 6,946.52

Tax: \$ 565.49

**\$ 7,512.01**

**Applied Payments:**

**Balance Due: \$ 7,512.01**

**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 26 2010

SAMUEL GARY JR.  
 & ASSOCIATES, INC.

DRLG  COMP  W/O  LOE

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

ACCT # 3200.138

APPROVED BY [Signature]

# 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. 4164

Date	7-17-10	Sec.	36	Twp.	15	Range	16	County	Ellis	State	Ks	On Location		Finish	9:15
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	------

Lease Boxberger Well No. 2-36 Location Corham S to Ed. 1 W N. 10

Contractor Val Dry Rig 6 Owner

Type Job Long 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. 1024 Charge To Sam Gary Jr & Associates

Csg. 8 1/2 Depth

Tbg. Size Depth Street

Tool Depth City State

Cement Left in Csg. 40' Shoe Joint The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line 24' Displace 62.64 BBL Cement Amount Ordered 400 com 3% cc 2% gel

**EQUIPMENT**

Pumptrk	5	No.	Cementor	<u>Rocky 3</u>
			Helper	
Bulktrk	12	No.	Driver	<u>Doug 30T</u>
			Driver	
Bulktrk	80	No.	Driver	<u>Dave 3</u>
			Driver	

1/4 floured per sk  
Common 400  
Poz. Mix  
Gel. 8  
Calcium 14

**JOB SERVICES & REMARKS**

Remarks:  
Rat Hole  
Mouse Hole  
Centralizers  
Baskets  
D/V or Port Collar

Hulls  
Salt  
Flowseal 100  
Kol-Seal  
Mud CLR 48  
CFL-117 or CD110 CAF 38  
Sand  
Handling 422  
Mileage

pumped 10 BBL fl 2'  
In front of cement

Mixed 400 slt

**FLOAT EQUIPMENT**

Landed plug @ 700 psi

Guide Shoe  
Centralizer 3  
Baskets 3

Cement Cir

AFU inserts 1 Baffle plate  
Float Shoe

Thanks

Latch Down  
1 8 1/8 Top Rubber plug

Pumptrk Charge Long Surface  
Mileage 22

Signature Dave D. Martin

Tax  
Discount  
Total Charge



PAGE 1 of 1	CUST NO 1003682	INVOICE DATE 07/27/2010
<b>INVOICE NUMBER</b> <b>1718 - 90368753</b>		

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

J LEASE NAME Boxberger 2-36  
 O LOCATION  
 B COUNTY Ellis  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40210241	20920		Net - 30 days	08/26/2010

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 07/25/2010 to 07/25/2010</b>				
0040210241				
171802251A Cement-New Well Casing/Pi 07/25/2010 5 1/2" Longstring				
60/40 POZ	75.00	EA	7.56	566.96 T
60/50 POZ	125.00	EA	6.93	866.20 T
Cello-flake	31.00	EA	2.33	72.26 T
Calcium Chloride	210.00	EA	0.66	138.91 T
Cal-Set	625.00	EA	0.47	295.29 T
FLA-322	104.00	EA	4.72	491.37 T
Cement Gel	210.00	EA	0.16	33.07 T
Gilsonite	1,000.00	EA	0.42	422.07 T
Latch Down Plug & Baffle 5 1/2"	1.00	EA	251.98	251.98
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	226.79	226.79
Turbolizer 5 1/2" (Blue)	8.00	EA	69.30	554.37
CS-1L KCL Substitute	4.00	EA	22.05	88.19 T
Super Flush II	500.00	EA	0.96	481.92 T
Unit Mileage Charge-Pickups, Vans & Cars	85.00	HR	2.68	227.57
Heavy Equipment Mileage	170.00	MI	4.41	749.65
Proppant and Bulk Delivery Charge	723.00	MI	1.01	728.74
Blending & Mixing Service Charge	200.00	MI	0.88	176.39
Depth Charge	1.00	HR	1,360.73	1,360.73
Casing Swivel Rental	1.00	EA	125.99	125.99
Plug Container Utilization Charge	1.00	EA	157.49	157.49
Service Supervisor	1.00	HR	110.24	110.24

AUG 04 2010

DRLG  COMP  W/O  LOE

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

ACCT # 8200.130

APPROVED BY [Signature]

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,126.18
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	217.74
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	8,343.92
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

**FIELD SERVICE TICKET**  
1718 02251 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>7-25-10</b> DISTRICT <b>KANSAS</b>		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 <b>Samuel Gary Jr. &amp; Assoc. Inc</b>		LEASE <b>Boxberger # 236</b> WELL NO. _____				
ADDRESS _____		COUNTY <b>Ellis</b> STATE <b>Kans.</b>				
CITY _____ STATE _____		SERVICE CREW <b>A. Worth, J. Nelson, O. Phipps</b>				
AUTHORIZED BY _____		JOB TYPE <b>5 1/2" Long String</b> <b>cow</b>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <b>7-24-10</b> <b>AM</b> <b>9:00</b>
<b>28443 P.H.</b>	<b>1 1/2</b>					ARRIVED AT JOB <b>7-25-10</b> <b>AM</b> <b>1:00</b>
<b>33208-20920</b>	<b>1 1/2</b>					START OPERATION <b>7-25-10</b> <b>AM</b> <b>7:40</b>
<b>19960-19918</b>	<b>1 1/2</b>					FINISH OPERATION <b>7-25-10</b> <b>AM</b> <b>8:30</b>
						RELEASED <b>7-25-10</b> <b>AM</b> <b>9:30</b>
						MILES FROM STATION TO WELL <b>85 miles</b>

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
CP103	60/40 Poz		75 SK		\$ 900.00
CP104	56/50 Poz		135 SK		\$ 1325.00
CC102	Cell FIAK		21-16		\$ 114.00
CC109	calcium chloride		210-16		\$ 220.50
CC113	cal-set		625-16		\$ 468.75
CC129	FIA-322		104-16		\$ 730.00
CC200	cement Gel		210-16		\$ 67.50
CC201	Gilsonite		1000-16		\$ 670.00
CF607	Latch Down Plug & Baffle 5/8" Blue		1-CA		\$ 400.00
CF1051	Auto Fill Float Shoe 5/8" Blue		1-CA		\$ 360.00
CF1651	Tubular 5/8" Blue		8-CA		\$ 280.00
CG04	CS-14 RLL sub.		4-901		\$ 140.00
CG155	Super Flush		500-901		\$ 765.00

SUB TOTAL

**DL5**

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

TOTAL

CHEMICAL / ACID DATA			

SERVICE REPRESENTATIVE **A. Worth** THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY **[Signature]**

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.





Customer: Samuel Gary Jr. Assoc. Inc. Lease No. [blank] Date: 7-28-10  
 Lease: Boxhouser Well # 2-36  
 Field Order # 171200351K Station Pratt Casing 5 1/2" Depth 3599' County Ellis State KS  
 Type Job 5/2" Long String Formation RTD 3600, LTD 3599 Legal Description 36-16-16

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2"	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
3599'	Depth	From	To	Pre Pad	Max		5 Min.	
85 BBL	Volume	From	To	Pad	Min		10 Min.	
1500#	Max Press	From	To	Frac	Avg		15 Min.	
P.L.	Well Connection	Annulus Vol.	From	To	HHP Used		Annulus Pressure	
3577'	Plug Depth	Packer Depth	From	To	Flush	Gas Volume	Total Load	

Customer Representative: Kelly Brannon Station Manager: scotty Treater: Allen F. Worth

Service Units	28443-33208	20920	19960	19918					
Driver Names	Worth	Joe	Melvin	Dele	Rhys				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1200 AM					on loc. Discuss Safety Setup Plan Job. Rig laying down Drill Pipe. Start 5 1/2" casing 15.5# shoe joint 21.68' w/ float shoe + L.O. Bottle in collar. / - cont. 1-3-5-7-9-11-13-15
500					Tag Bottom @ 3600' set pipe @ 3599' c.i.a w/ Rig + Rotate pipe.
640			20	5	Pump 20 BBL 2% KCL
745	200#		12	5	Pump 12 BBL super flush II
			5	5	Pump 5 BBL 1" 2" spacer
			9	5	mix + pump 25 sks 60/40 po2 scavenger 2"
			34	5	mix + pump 125 sks 50/50 po2 @ 13.8"
812				6	Drop Latch down Plug Start Disp
	400#			4	caught Lift PST w/ 62 BBL out
830	1500#			2 1/2	Plug down
	0#				Release PST 'OK'
			7		Plug Rat Hole w/ 30 sks 60/40 po2
			5		Plug Mouse Hole w/ 20 sks 60/40 po2
					wash up + Rack up Equip
130					Job complete Thanks Allen Joe