



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	SCURLOCK 1-21
Doc ID	1058762

All Electric Logs Run

DIL
MICRO
POR
SONIC
SPECTRAL

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 30, 2011

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

Re: ACO1
API 15-051-26115-00-00
SCURLOCK 1-21
SW/4 Sec.21-15S-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,
CLAYTON CAMOZZI



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 3/26/2011
 Invoice # 4942

P.O.#:
 Due Date: 4/25/2011
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 3111 W. 10th Street
 Great Bend, KS 67503

Reference:
 SCURLOCK 1-21

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	SCURLOCK 1-21
Deck	
AFE	
Approval	<i>SGJ</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 693.97	No	Baffle Plate Aluminum, 8 5/8"	1	\$91.20	Yes
Common-Class A	400	\$ 4,945.07	Yes				
8 5/8" Basket	3	\$ 960.64	Yes				
Bulk Truck Matl-Material Service Charge	422	\$ 855.25	No				
Calcium Chloride	14	\$ 534.27	Yes				
Pump Truck Mileage-Job to Nearest Camp	22	\$ 222.49	No				
Flo Seal	100	\$ 202.67	Yes				
8 5/8" Centralizer	3	\$ 194.58	Yes				
Premium Gel (Bentonite)	8	\$ 131.98	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	22	\$ 130.19	No				
8 5/8" Top Rubber Plug	1	\$ 107.41	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	9,069.70
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(1,360.45)
SubTotal for Taxable Items:		\$	6,092.62
SubTotal for Non-Taxable Items:		\$	1,026.74
Total:		\$	7,709.24
Tax:		\$	383.84
Amount Due:		\$	8,093.08
Applied Payments:			
Balance Due:		\$	8,093.08

6.30% Ellis County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.

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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. 4942

Date <u>3.24.11</u>	Sec. <u>21</u>	Twp. <u>15</u>	Range <u>16</u>	County <u>Ellis</u>	State <u>KS</u>	On Location	Finish <u>6:15 p.m.</u>
Lease <u>SCORLOCK</u>	Well No. <u>1-21</u>		Location <u>Walker's Cherokee (old Rd) 1/2 W Sinto</u>				
Contractor <u>Royal #2</u>				Owner			
Type Job <u>Surface</u>				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 <u>12 1/4</u>		T.D. <u>1066</u>		Charge To <u>Sam Gandy</u>			
Csg. <u>8 5/8</u>		Depth <u>1066</u>		Street			
Tbg. Size		Depth		City			
Tool		Depth		State			
Cement Left in Csg. <u>31.08</u>		Shoe Joint <u>31.08</u>		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <u>65.832</u>		Cement Amount Ordered <u>400 Com. 3% cell 2% cell 1/4 flow seal</u>			

EQUIPMENT

Pumptrk <u>9</u>	No.	Cementing <u>Craig</u>	Helper	Common <u>400</u>
Bulktrk	No.	Driver <u>Paul</u>	Driver	Poz. Mix
Bulktrk <u>4</u>	No.	Driver <u>Scott</u>	Driver	Gel. <u>8</u>

JOB SERVICES & REMARKS

Remarks:	Calcium <u>14</u>
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal <u>100%</u>
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
<u>8 5/8 on bottom. Est. Circulation.</u>	CFL-117 or CD110 CAF 38
<u>Mix 400SK & Displace Battle set</u>	Sand
<u>@ 10.31.93</u>	Handling <u>422</u>
<u>Cement Circulated!</u>	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer <u>8 5/8</u>	<u>3 Centralizers</u>
Baskets <u>3</u>	
AFU Inserts	<u>Baffle Plate</u>
Float Shoe	<u>Rubber Plug</u>
Latch Down	

Pumptrk Charge <u>Long Surface</u>	
Mileage <u>22</u>	

Tax	
Discount	
Total Charge	

X Signature 



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 4/5/2011
 Invoice # 5052

P.O.#:

Due Date: 5/5/2011

Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 3111 W. 10th Street
 Great Bend, KS 67503

Reference:
 SCURLOCK 1-21

Description of Work:
 PROD LONG STRING

DRLG COMP W/O LOE GG

Account	8300-238
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 684.84	No	Salt (Fine)	19	\$265.24	Yes
Common-Class A	225	\$ 2,745.00	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$224.00	Yes
Gilsonite	1057	\$ 1,585.50	Yes	Pump Truck Mileage-Job to Nearest Camp	22	\$219.56	No
CFL 117	176	\$ 1,084.16	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	22	\$128.48	No
5 1/2" Basket	3	\$ 690.00	Yes	KCL	2	\$59.72	Yes
CD-110	170	\$ 680.00	Yes				
5 1/2" Turbolizer	8	\$ 464.00	Yes				
Bulk Truck Matl-Material Service Charge	225	\$ 450.00	No				
Mud Clear	500	\$ 370.00	Yes				
Defoamer A or CAF-38	50	\$ 350.00	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 306.00	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 10,306.50

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,545.98)

SubTotal for Taxable Items: \$ 7,500.08

SubTotal for Non-Taxable Items: \$ 678.33

Total: \$ 8,760.53

Tax: \$ 472.50

Amount Due: \$ 9,233.03

Applied Payments:

Balance Due: \$ 9,233.03

6.30% Ellis County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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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. 5052

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-1-11	21	15	16	Ellis	Kansas		6:15AM
Lease <i>Scurlock</i>	Well No. <i>1-21</i>		Location <i>Walker 95 1/2 W Sinto</i>				
Contractor <i>Royal Drilling Rigs</i>				Owner			
Type Job <i>Long string</i>				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 <i>7 7/8</i>	T.D. <i>3630</i>		Charge To <i>Samuel Gray Jr. & Associates</i>				
Csg. <i>5 1/2 15.50 lb</i>	Depth <i>3627</i>		Street				
Tbg. Size	Depth		City				
Tool	Depth		State				
Cement Left in Csg. <i>4 3/4</i>	Shoe Joint <i>43 1/2'</i>		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace <i>85 1/2 Bbl</i>		Cement Amount Ordered <i>225 Q Pro C 100 Salt</i>				
EQUIPMENT				<i>5 Gilsonite 3" CD-110, 8" CFL-117, 25" CAF-38</i>			
Pumptrk <i>5</i>	No.	Cementer <i>Shaw</i>	Common <i>20 Bbl RCL 500 gal Mud Clear 48</i>				
Bulktrk <i>3</i>	No.	Driver <i>Brandon</i>	Poz Mix <i>225 Q pro-C</i>				
Bulktrk	No.	Driver <i>Neake</i>	Gel.				
JOB SERVICES & REMARKS				<i>Calcium CD-110 170#</i>			
Remarks:				<i>Mud RCL 2 gal</i>			
Rat Hole <i>30 1/2"</i>				<i>Salt 19</i>			
Mouse Hole <i>20 1/2"</i>				<i>Flowseal 56#</i>			
Centralizers <i>1, 3, 5, 7, 9, 11, 13, 15</i>				<i>Kol-Seal 1057#</i>			
Baskets <i>4, 10, 16</i>				<i>Mud CLR 48 500 gal</i>			
D/V or Port Collar				<i>CFL-117 or CD110 CAF 38 50#</i>			
<i>30 1/2" Rat Hole</i>				<i>Sand CFL-117 176#</i>			
<i>20 1/2" Mouse Hole</i>				Handling			
<i>Land plug @ 1200 psi</i>				Mileage			
<i>Flood Head</i>				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer <i>8 Tubos</i>			
				Baskets <i>3</i>			
				AFU Inserts			
				Float Shoe <i>1</i>			
				Latch Down <i>1</i>			
				<i>Rotating Head</i>			
				Pumptrk Charge <i>Prod Long String</i>			
				Mileage <i>22</i>			
X Signature: <i>Andy Papp</i>				Tax			
				Discount			
				Total Charge			



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

Well Name: Scurlock 1-21
Location: SEC 21, 15S, 16W, Ellis Co. Kansas
License Number: 15-051-26115-0000
Spud Date: 03/24/2011
Surface Coordinates: 800' FsL & 1850' FWL
Region: Wildcat
Drilling Completed: 03/31/2011

Bottom Hole Coordinates:

Ground Elevation (ft): 1940' K.B. Elevation (ft): 1947'
Logged Interval (ft): 2820' To: 3630' Total Depth (ft): 3630'
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 Wykoop, Ste. # 700
Denver, Colo. 80202
Geo: Clayton Camozzi

GEOLOGIST

Name: Jason Marshal
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell:

Circulating Report

START UNMANNED UNIT @ 1734' ON 03/25/11 BY RODNEY NAPIER

DST's Report

DST #1, 3230'-3268', 5,60,40,120

IFP-BOB-3 MIN, ISI-SURFACE BLOW, FF-BOB IN 30 SEC, FSI-BOB IN 12 MIN DIED, IH-1637, FH-1556, FIF-31, FFF-40, SIF-52, SFF-108, ISI-1055, FSI-1043, TOTAL REC FT 240', 60% GAS, 55%, OIL, 55% WATER, AN 30% MUD, BHT- 98, GRAVITY- 33, CHLORIDES- 140,000

DST #2, 3270'-3312', 10,60,40,120

IFP-BOB-4 1/2 MIN, ISI-NO BLOW, FF-BOB EMMIDIATLY, FSI-1 1/4 BLOW, DIED IN 1HR 17 MIN, IH-1640, FH-1592, FIF-26, FFF-60, SIF-46, SFF-84, ISI-977, FSI-933, TOTAL REC FT 150', 10% GAS, 90%, OIL, BHT- 97, GRAVITY- 34, CHLORIDES- 5,000

. DST #3, 3348'-3409', 5,60,30,90


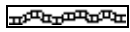
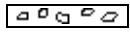
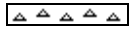
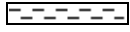



IFP-BOB-2 MIN, 1/4" BLOW, DIED IN 35 MIN, FF-BOB IN 4 MIN, FSI-SURFACE BLOW, IN 17 MIN DIED, IH-1701, FH-1644, FIF-76, FFF-88, SIF-112, SFF-199, ISI-1099, FSI-908, TOTAL REC FT 460', 15% GAS, 70%, OIL, AN 15% MUD, BHT- 64, GRAVITY- 39





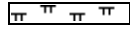

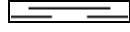
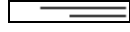
DST #4, 3526'-3532', 10,60,15,90

IF-VERY WEAK SURFACE BLOW, ISI-NO BLOW BACK, FF-WEAK SURFACE BLOW, FSI-NO BLOW BACK, IH-1794, FH-1718, FIF-14, FFF-19, SIF-18, SFF-19, ISI-1172, FSI-1165, TOTAL REC FT 35', GAS, 35%, OIL, AN 65% MUD, GRAVITY- 24







DST's Report

ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Sltst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandylms
	Shale
	Sltstn
	Shlyslts
	Sltyslts
	Lms

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

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

FOSSIL

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

STRINGER

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

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

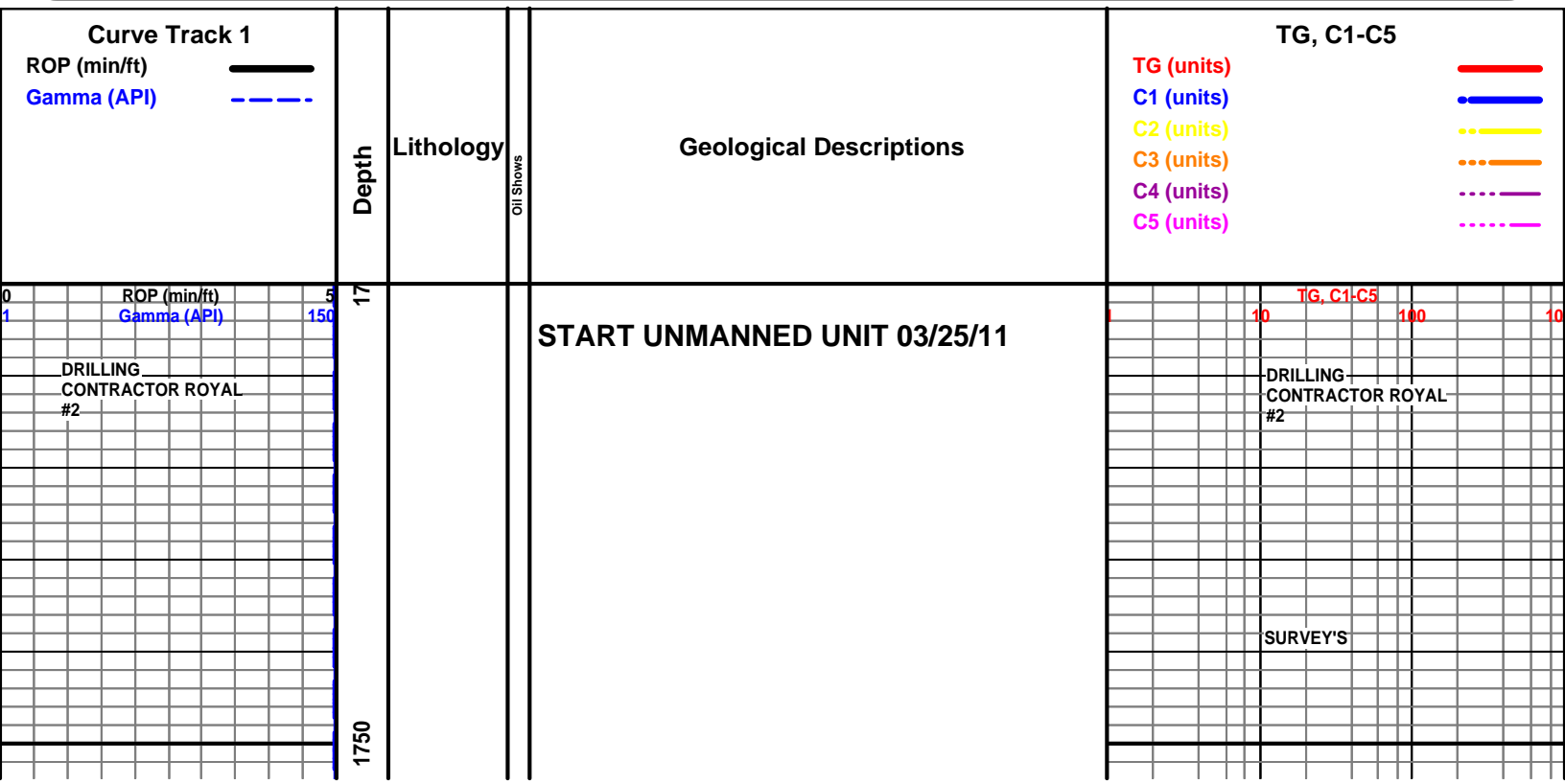
- Even
- Spotted
- Ques
- Dead
- Gas show

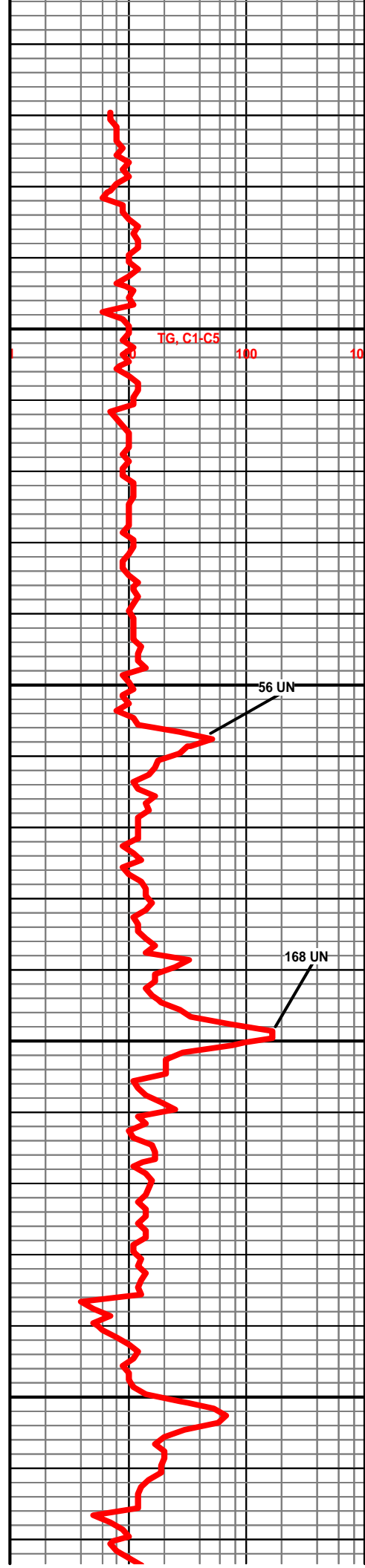
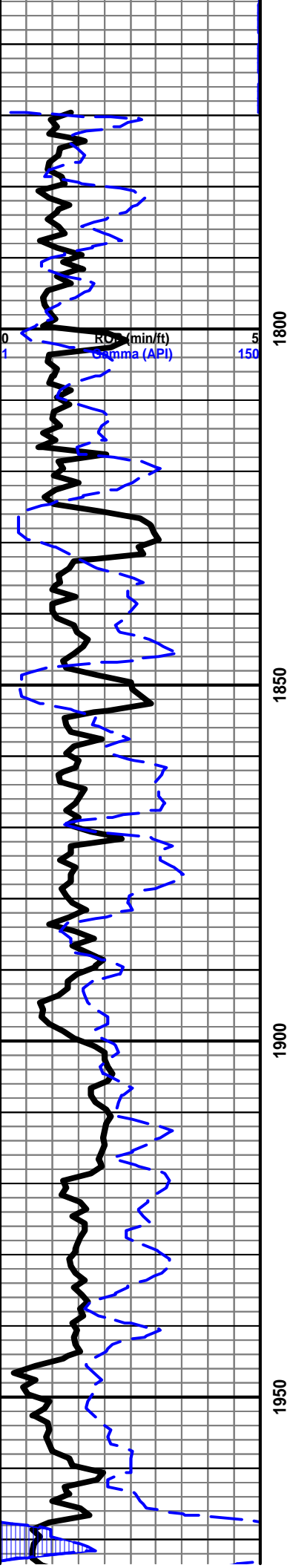
INTERVALS

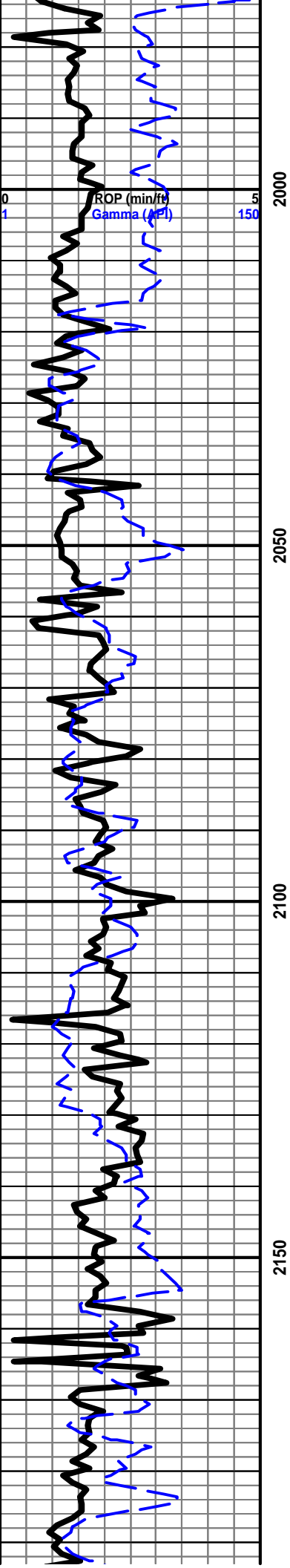
- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall







ROP (min/ft)
Gamma (API)

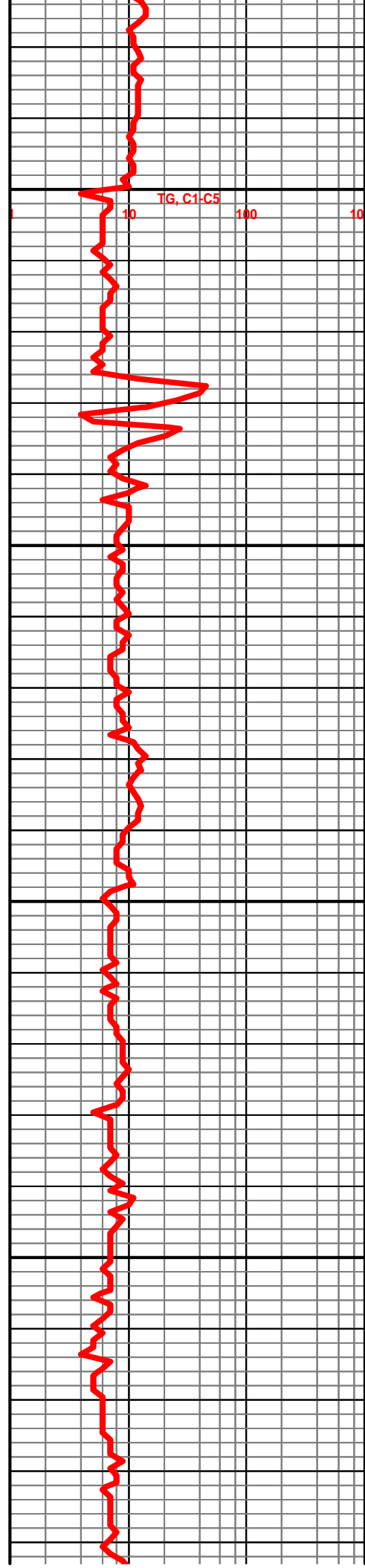
0 5
1 150

2000

2050

2100

2150



TG, C1-C5

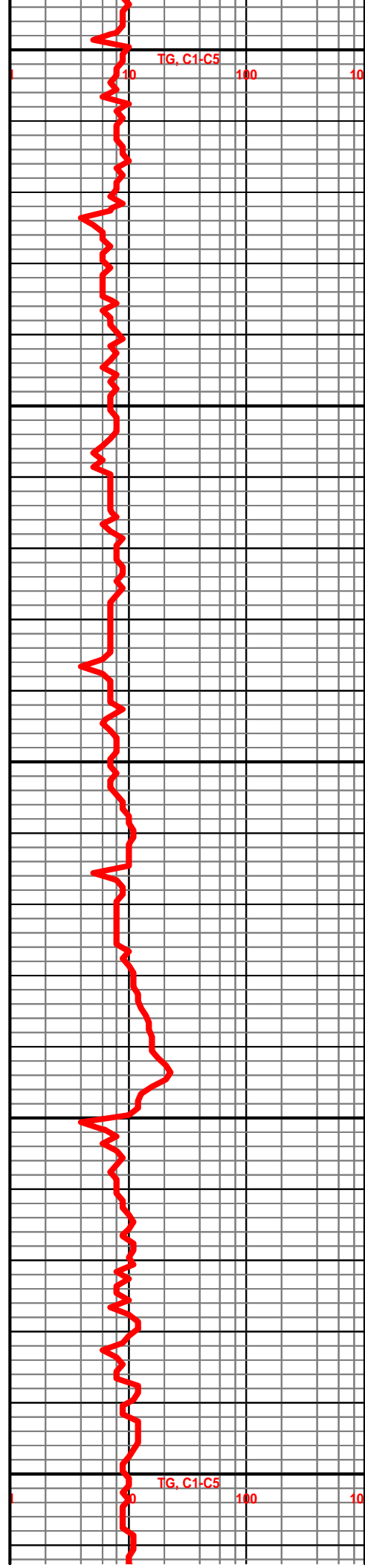
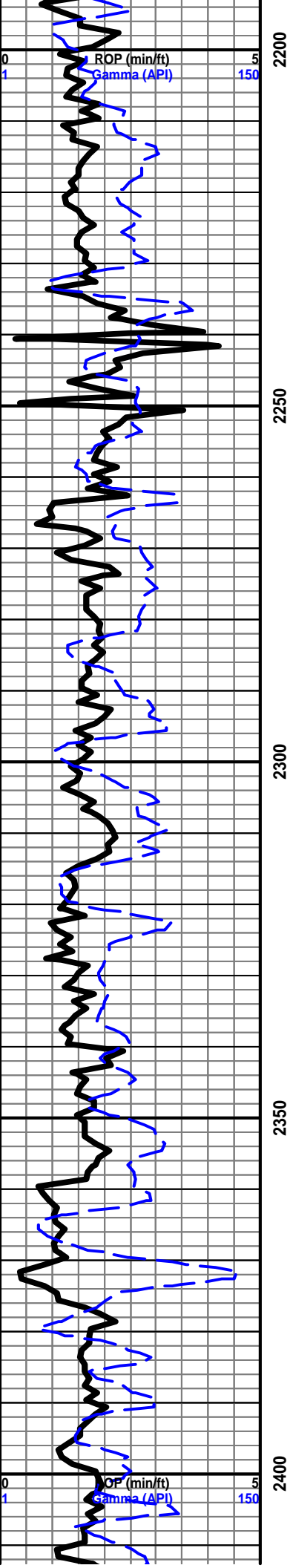
10 100 10

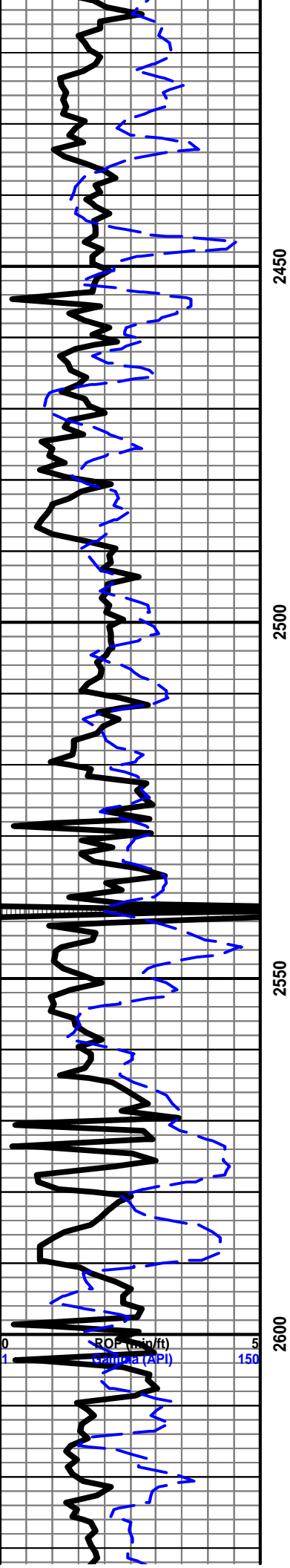
2000

2050

2100

2150





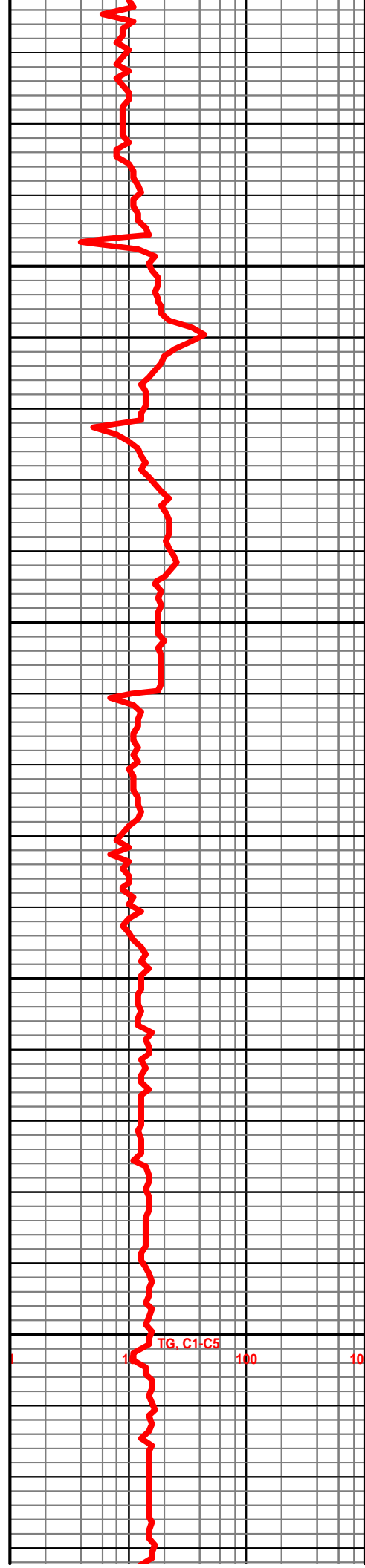
2450

2500

2550

2600

ROP (min/ft)
Gamma (API)

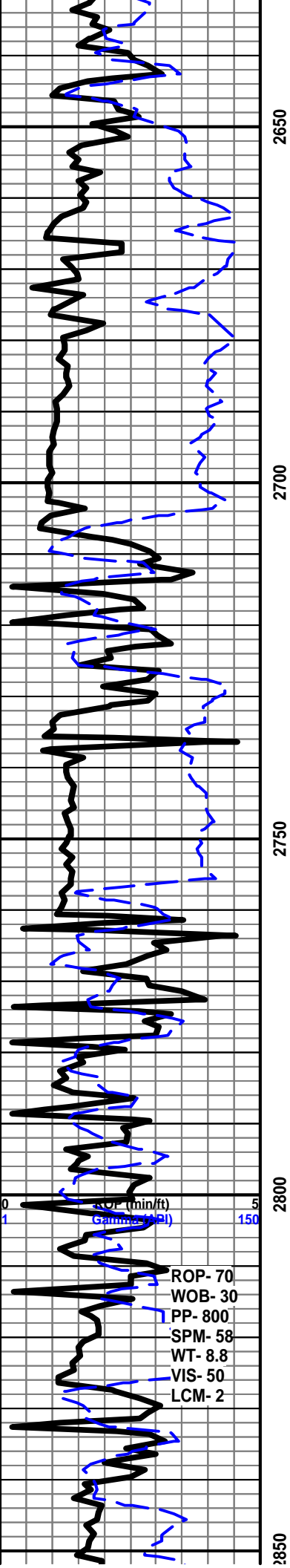


TG, C1-C5

1

100

10

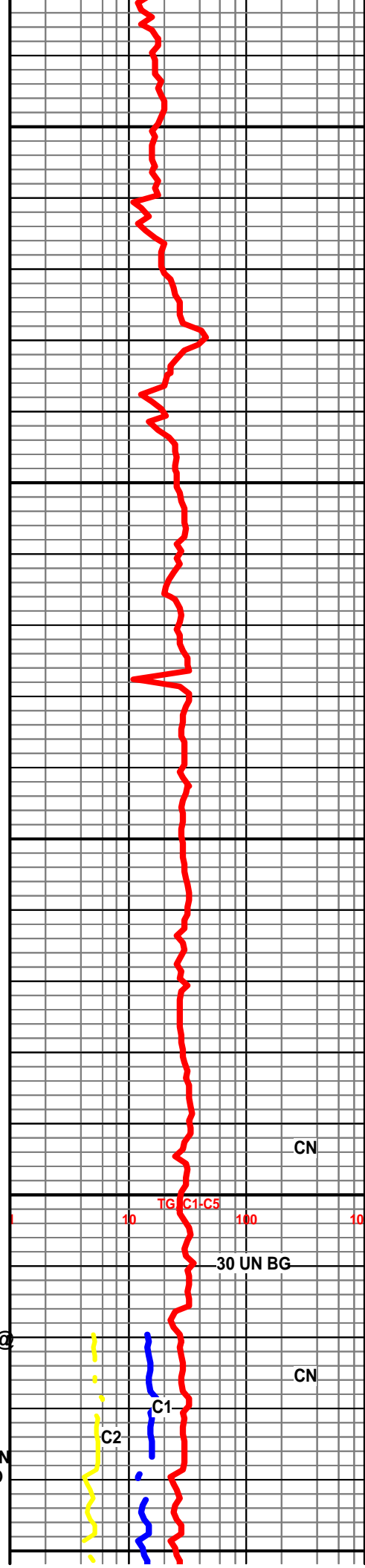


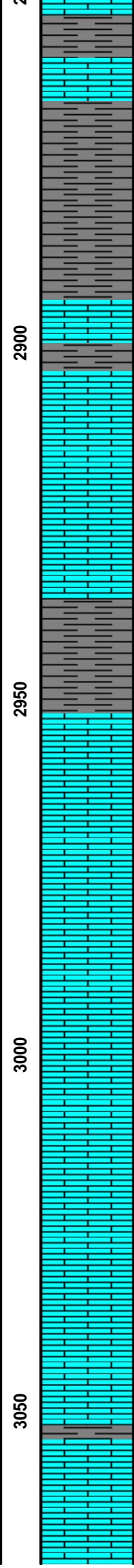
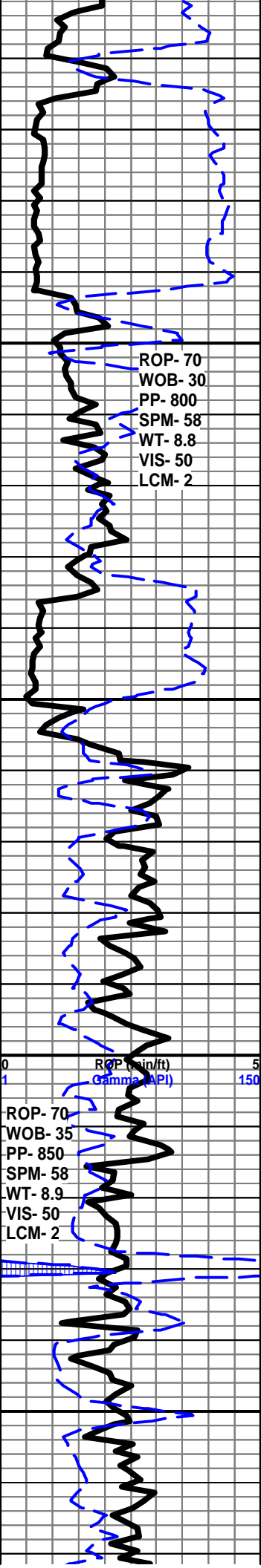
- ROP- 70
- WOB- 30
- PP- 800
- SPM- 58
- WT- 8.8
- VIS- 50
- LCM- 2

BASE ROOT SHALE @ 2708' -761'

STARTED MANNED UNIT ON 3/27/2011 @ 4:00 A.M.

LS- LT GRY, CRM TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS, DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW





SH- LT GRY TO GRY, FRM, SMTH BLKY

HOWARD @ 2898' -951'

LS- LT GRY, CRM, LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX, SUCRO TXT IP, IMBD FOSS FRAGS, SLI TR CHLK SCAT THRU, DLL TO BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW

SEVERY @ 2936' -989'

SH- LT GRY TO GRY, FRM, BLKY

TOPEKA @ 2951' -1004'

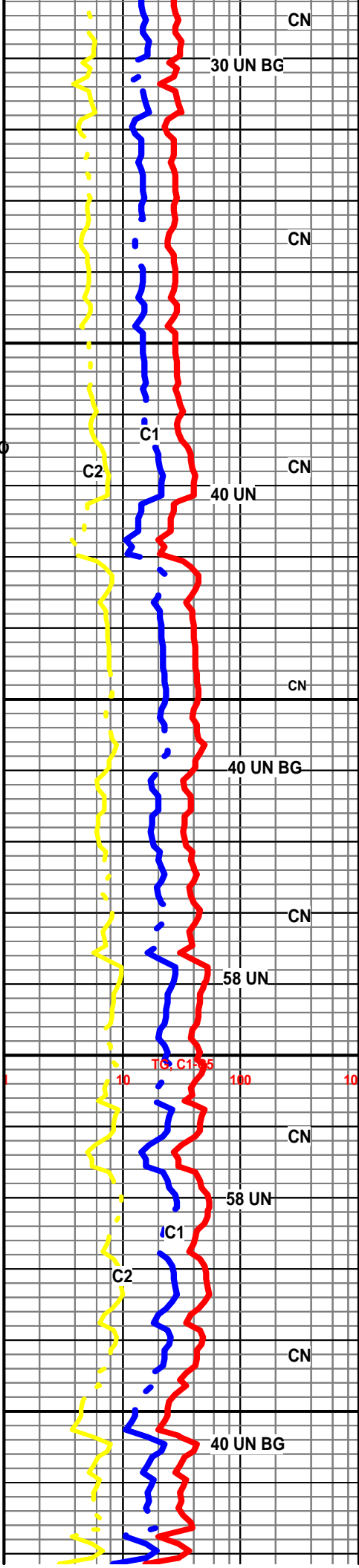
LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, IMBD FOSS FARGS THRU, IMBD CALC XLS IP, TR DLL YELL MIN FLO, V/SLI TR PR PP POR IN 10%, NO VIS CUT, NO VIS SHOW

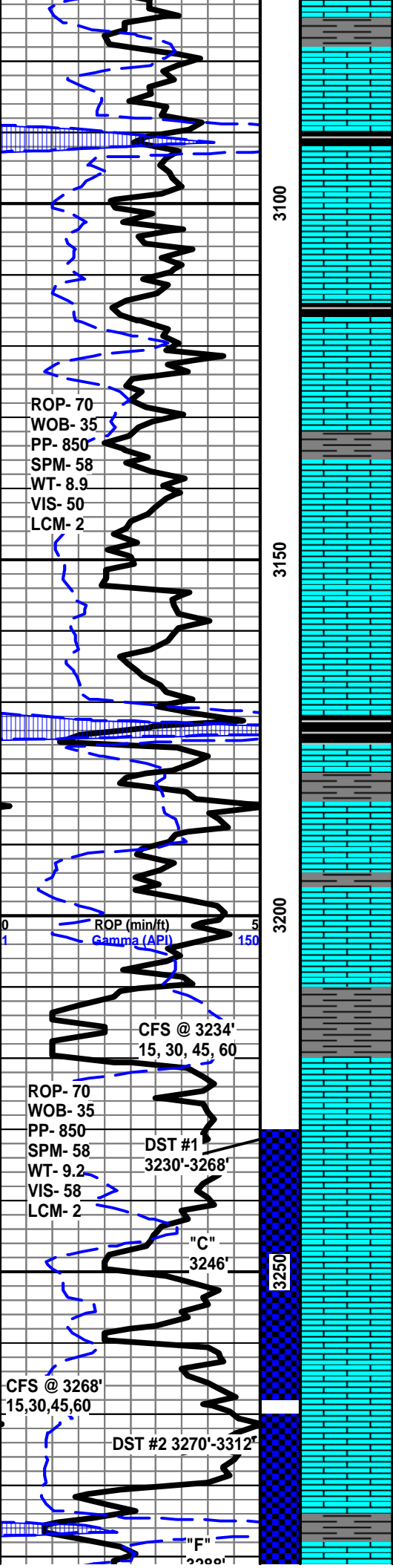
LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD FOSS FARGS THRU, IMBD CALC XLS, V/SLI TR SFT CHLK IP, TR DISS PYR SCAT IP, DLL YELL MIN FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD FOSS FARGS THRU, IMBD CALC XLS, DISS PYR IP, DLL YELL MIN FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

LE COMPTON 3054' -1107'

LS- OFF WHT CRM LT TN TO TN, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD FOSS FRAGS, IMBD TR OOL, PYR SCAT THRU, DLL YELL FLO, PR PP POR IN 20%, NO VIS CUT, NO VIS SHOW





SH- SFT BLK CARB SHALE

LS- OFF WHT CRM LT TN TO TN, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD FOSS FRAGS, V/SLI TR OOL SCAT IP, DLL YELL FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- SFT BLK CARB SHALE

SH- LT GRY TO GRY, FRM, SMTH BLKY

LS- OFF WHT CRM LT TN TO TN, DEAD OIL STAIN IN 20%, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD FOSS FRAGS, V/SLI TR OOL, IMBD CALC XLS IP, DLL YELL FLO, PR PP POR IN 15%, V/SLI V/PR TR RING CUT NO ODOR

HEEBNER @ 3173' -1226'

SH- SFT BLK CARB SHALE

LS- OFF WHT CRM LT TN TO TN, HD DNS TO BRITT, FN XLN REXLN MTRX, IMBD FOSS FRAGS, CHLKY SCAT THRU, DLL YELL FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

DOUGLAS @ 3210' -1263'

SH- GRY TO DK GRY, FRM, SMTH BLKY

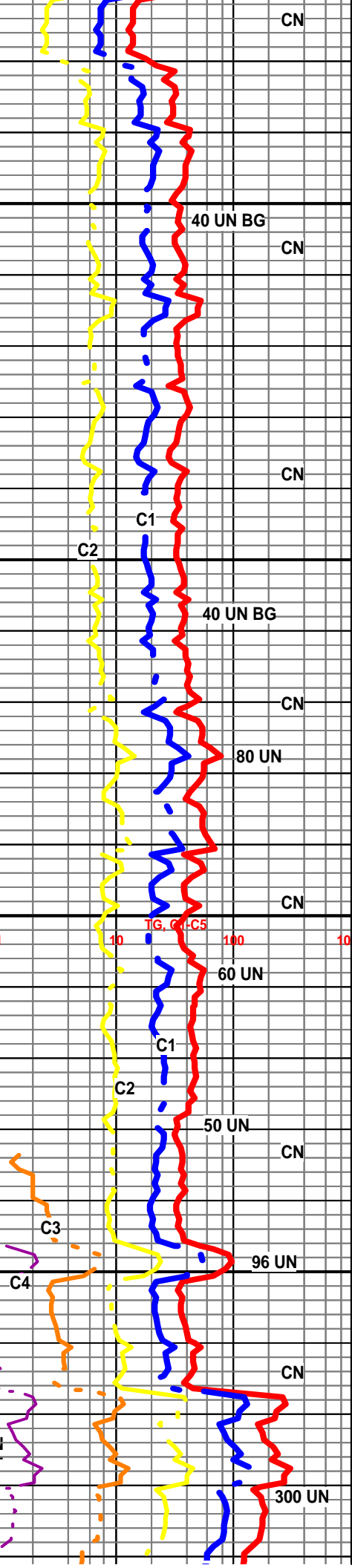
LANSING @ 3221' -1274'

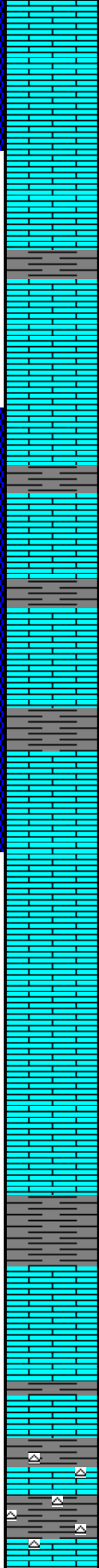
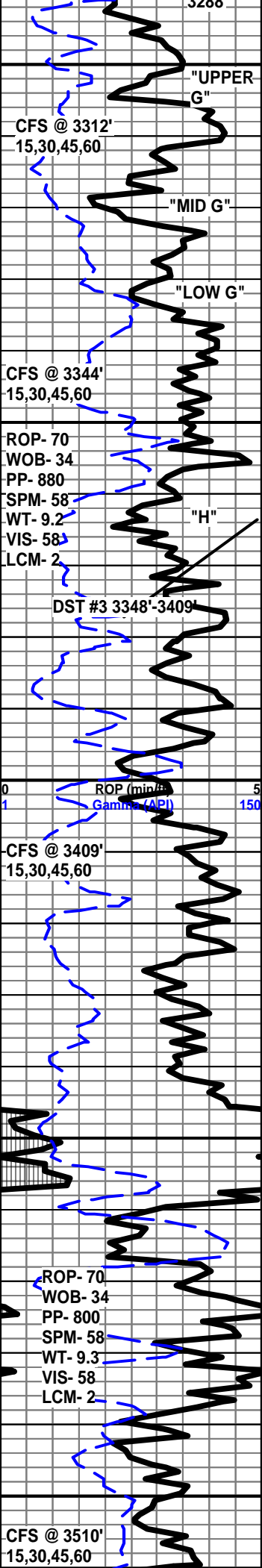
LS- OFF WHT CRM LT TN TO TN, STAIN ON 30%, HD DNS TO BRITT, FN XLN REXLN MTRX, IMBD FOSS FRAGS, IMBD CALC XLS, DLL TO BRIT YELL FLO, PR PP POR 30% TO POSS FRAC POR IN 10%, GD INST FLUSH CUT TO STRONG MLKY BLUE STREAM CUT, FR OIL ODOR

LS- OFF WHT CRM LT TN TO TN, STAIN ON 40%, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX, IMBD FOSS FRAGS, IMBD CALC XLS, LIVE OIL ON 3 ROCKS, DLL TO BRIT YELL FLO, FR PP POR 30% TO TR FR VUG IN 10%, GD INST FLUSH CUT THRU, TO STRONG MLKY BLUE STREAM CUT IN 30%, GD OIL ODOR

LS- OFF WHT CRM LT TN TO TN, STAIN ON 20%, HD DNS TO BRITT, FN XLN REXLN MTRX, IMBD FOSS FRAGS, IMBD CALC XLS, DLL TO BRIT YELL FLO, TR VUG POR IN 10%, FR FLUSH CUT THRU, FR MLKY BLUE STREAM CUT IN 10%, FR OIL ODOR

SH- GRY TO DK GRY, FRM, SMTH BLKY TO TR SPLNTY





LS- OFF WHT CRM LT TN TO TN, STAIN ON 50%, HD DNS TO BRITT, FN XLN REXLN MTRX, IMBD FOSS FRAGS, IMBD OOL IP, DLL TO BRIT YELL FLO, FR PP POR IN 30% TO TR FR OOL POR IN 10%, GD INST FLUSH CUT THRU, TO STRONG MLKY BLUE STREAM CUT IN 30%, GD OIL ODOR

LS- OFF WHT CRM LT TN TO TN, STAIN ON 20%, HD DNS TO BRITT, FN XLN REXLN MTRX, V/SLI TR IMBD OOL IP, DLL TO BRIT YELL FLO, PR PP POR IN 20% TO TR FR VUG POR IN 5%, V/PR FLUSH CUT, NO VIS STREAM CUT, PR OIL ODOR

SH- GRAY TO DK GRAY, FRM, SMTH SPLNTY

LS- OFF WHT CRM LT TN TO TN, STAIN ON 30%, HD DNS TO BRITT, FN XLN REXLN MTRX, SLI TR IMBD OOL IP, BRIT YELL FLO IP, TR PR VUG POR IN 20%, GD INST FLUSH CUT THRU, TO STRONG MLKY BLUE STREAM CUT IN 20%, GD OIL ODOR, BRN STAIN ON DISH

LS- OFF WHT CRM LT TN TO TN, STAIN ON 30%, HD DNS TO BRITT, FN XLN REXLN MTRX, TR IMBD OOL IP, BRIT YELL FLO IP, TR FR VUG POR IN 20%, GD INST FLUSH CUT 30%, TO STRONG MLKY BLUE STREAM CUT IN 20%, FR OIL ODOR,

LS- OFF WHT CRM LT TN TO TN, STAIN ON 25%, HD DNS TO BRITT, FN XLN REXLN MTRX, IMBD FOSS FRAGS, SLI TR IMBD OOL IP, BRIT YELL FLO, PR PP POR IN 10%, TR PR VUG POR IN 15%, GD INST FLUSH CUT IN 20%, TO STRONG MLKY BLUE STREAM CUT IN 15%, GD OIL ODOR, BRN STAIN ON DISH

SH- GRAY TO DK GRAY, FRM, SMTH SPLNT

LS- OFF WHT CRM LT TN TO TN, STAIN ON 20%, HD DNS TO BRITT, V/FN XLN REXLN MTRX, SLI TR IMBD OOL IP, BRIT TO GLD YELL FLO, PR PP POR IN 20%, TR FR VUG POR IN 10%, PR FLUSH CUT IN 10% TO NO STREAM CUT, FR OIL ODOR

SH- GRAY TO DK GRAY, FRM, SMTH BLKY

LS- OFF WHT CRM LT TN TO TN, STAIN ON 30%, HD DNS TO BRITT, V/FN XLN REXLN MTRX, IMBD FOSS FRAGS, BRIT TO GLD YELL FLO, PR PP POR IN 20%, TR FR VUG POR IN 15%, PR FLUSH CUT IN 20% TO V/PR STREAM CUT, FR OIL ODOR

LS- OFF WHT CRM LT TN TO TN, STAIN ON 60%, HD DNS TO BRITT, V/FN XLN REXLN MTRX, IMBD FOSS FRAGS, BRIT TO GLD YELL FLO, FR PP POR IN 20%, TR FR VUG POR IN 20%, GD INST FLUSH CUT IN 40% TO FR MLKY BLUE STREAM CUT IN 30%, FR OIL ODOR

LS- OFF WHT CRM LT TN TO TN, STAIN ON 60%, HD DNS TO BRITT, V/FN XLN REXLN MTRX, SLI TR IMBD OOL IP, BRIT TO GLD YELL FLO, FR PP POR IN 25%, TR FR VUG POR IN 10%, GD INST FLUSH CUT IN 40% TO PR MLKY BLUE STREAM CUT IN 20%, FR OIL ODOR

BASE KANSAS CITY @ 3458' -1511'

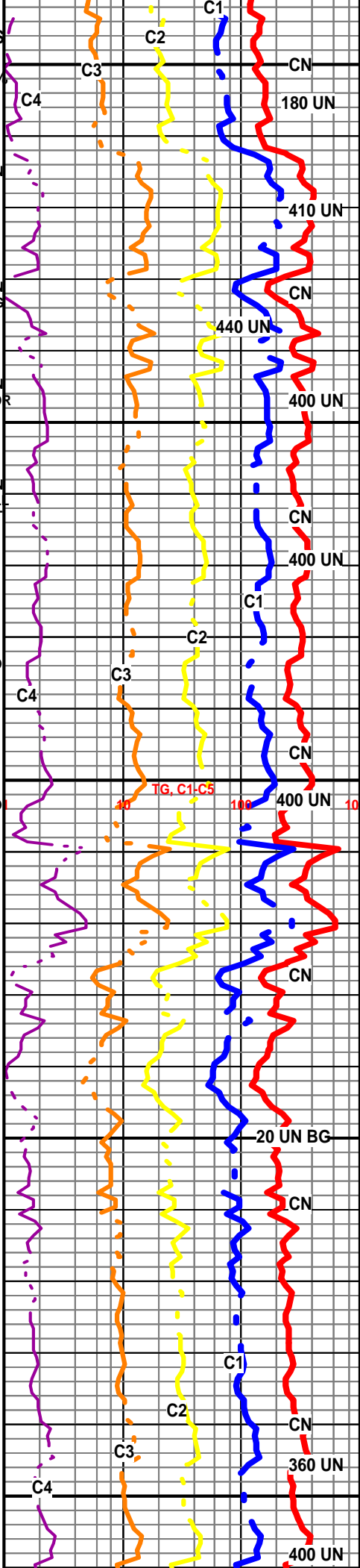
SH- GRAY TO DK GRAY, FRM, SMTH BLKY TO SPLNTY IP

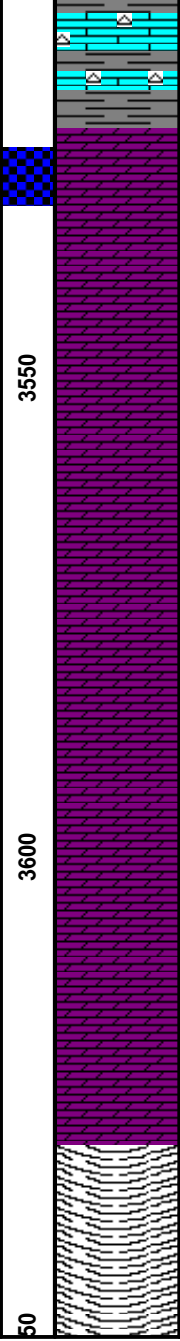
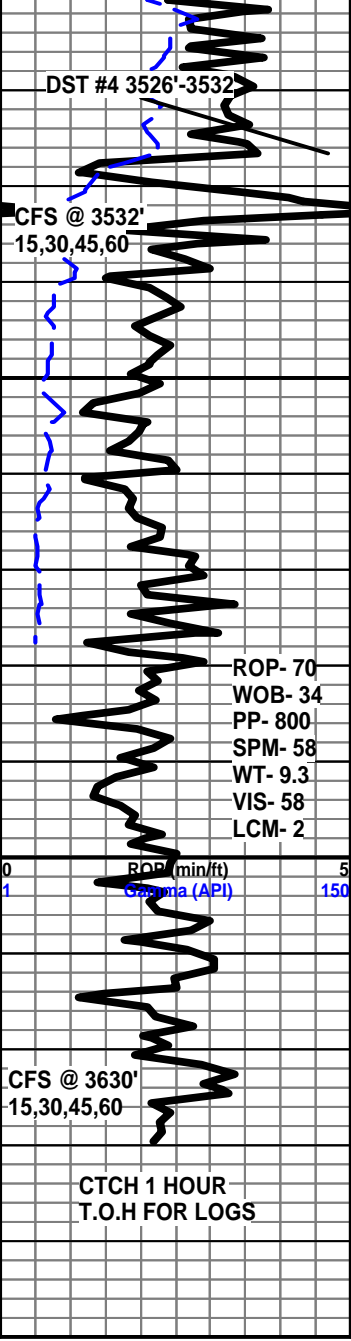
LS- OFF WHT CRM LT TN TO TN, STAIN ON 40%, HD DNS TO BRITT, V/FN XLN REXLN MTRX, SLI TR IMBD FOSS FRAGS IP, SLI TR IMBD CALC XLS, BRIT TO GLD YELL FLO, FR PP POR IN 25%, TR FR VUG POR IN 20%, GD INST FLUSH CUT IN 40% NO STREAM CUT, PR OIL ODOR

LS- CRM OFF WHT TO WHT, LT TN, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX, WHT AN YELISH CHRT SCAT THRU, DLL YEL FLO, V/PR PP POR, NO VIS CUT, NO VIS SHOW

SH- GRAY TO DK GRAY TO REDISH, SFT, BLKY, YELISH CHRT THRU

LS- CRM OFF WHT, LT TN, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX. YELISH CHRT SCAT THRU. DLL YEL FLO. V/PR PP POR. NO VIS





CUT, NO VIS SHOW

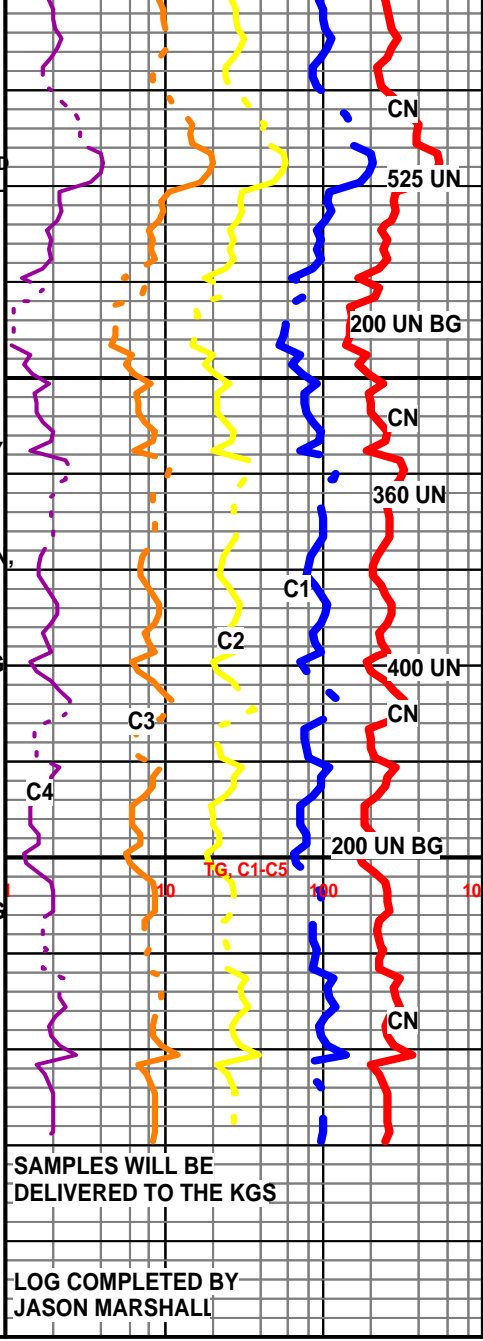
ARBUCKLE @ 3524' - 1577'

DOL- CRM OFF WTH LT TN TO TN, STAIN IN 80%, V/FN TO FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, FN IMBD DOL XLS THRU, IMBD FOSS FRAGS, TR CHLK, CHRT SCAT THRU, LIVE OIL IN 50%, BRIT YEL TO GLD FLO THRU, GD PP POR IN 30% TO GD INTR XLN POR IN 40%, INST FLUSH CUT THRU TO EX INST STRONG MLKY BLUE CUT THRU, GD OIL ODOR, BRN STAIN ON DISH

DOL- CRM OFF WTH LT TN TO TN, STAIN IN 50%, V/FN T FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, FN IMBD DOL XLS THRU, IMBD PYR THRU, DEAD OIL STAIN ON 50%, BRIT YEL TO GLD FLO THRU, GD INTR XLN POR IN 40%, EX INST FLUSH CUT THRU TO GD STRONGD MLKY BLUE STREAM CUT THRU, FR TO GD OIL ODOR

DOL- CRM OFF WTH LT TN TO TN, STAIN IN 40%, FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, MD IMBD DOL XLS THRU, DISS PYR SCAT THRU, DEAD OIL STAIN ON 15%, BRIT YEL TO GLD FLO THRU, FR TO GD INTR XLN POR IN 35%, GD INST FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 50%, FR OIL ODOR

DOL- CRM OFF WTH LT TN TO TN, STAIN IN 25%, V/FN T FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, FN IMBD DOL XLS THRU, BRIT YEL TO GLD FLO THRU, GD INTR XLN POR IN 30%, FR FLUSH CUT IN 40% TO GD STRONG MLKY BLUE CUT IN 20%, PR TO FR OIL ODOR



RTD 3630' @ 2:50 PM 03/31/2011

LOGS BY WEATHERFORD
LIBERAL KANSAS

THANK YOU FOR CHOOSING EARTHTEC

SAMPLES WILL BE DELIVERED TO THE KGS

LOG COMPLETED BY JASON MARSHALL



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Ass. Inc,**

1515 Wynkoop St, Ste 700
Denver CO, 80202

ATTN: Clayton Camozzi

21-15S-16W

Scurlock #1-21

Start Date: 2011.03.28 @ 09:40:30

End Date: 2011.03.28 @ 16:38:00

Job Ticket #: 42805 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21

21-15S-16W

Job Ticket: 42805

DST#: 1

Test Start: 2011.03.28 @ 09:40:30

GENERAL INFORMATION:

Formation: **Lancing C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:00

Time Test Ended: 16:38:00

Test Type: Conventional Bottom Hole

Tester: Cody/Brett

Unit No: 47

Interval: 3230.00 ft (KB) To 3268.00 ft (KB) (TVD)

Reference Elevations: 1870.00 ft (KB)

Total Depth: 3268.00 ft (KB) (TVD)

1862.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6719 Inside

Press @ Run Depth: 108.07 psig @ 3231.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.28 End Date: 2011.03.28

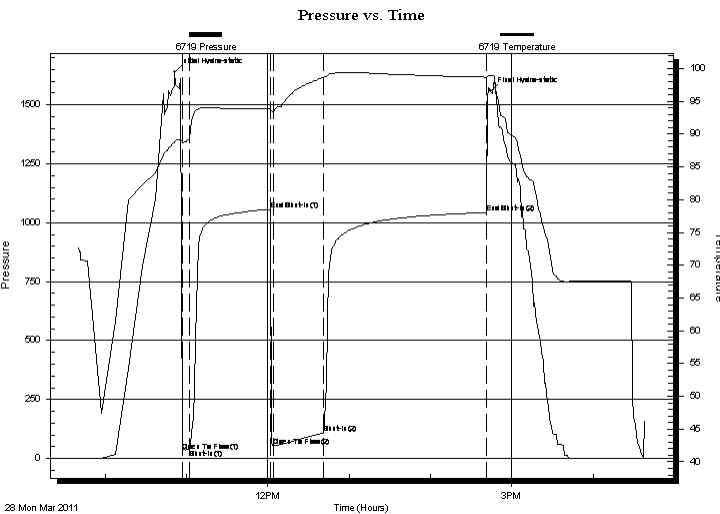
Last Calib.: 2011.03.28

Start Time: 09:40:35 End Time: 16:37:59

Time On Btm: 2011.03.28 @ 10:51:30

Time Off Btm: 2011.03.28 @ 14:44:30

TEST COMMENT: 5min IF-B.O.B.-3Min
60min ISI- Surface blow
40min FF- B.O.B- 30Sec.
120min FSI-B.O.B- 12Min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.39	88.88	Initial Hydro-static
6	31.57	88.84	Open To Flow (1)
11	40.49	89.28	Shut-In(1)
71	1055.39	93.81	End Shut-In(1)
73	52.42	93.30	Open To Flow (2)
110	108.07	98.68	Shut-In(2)
230	1043.29	98.68	End Shut-In(2)
233	1556.86	98.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	V SOGMCW 20%G 30%M 5% O 45%W	0.84
180.00	G SWCO 40%G 10%W 50%O	2.52
0.00	360ft GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass. Inc.,

Scurlock #1-21

1515 Wynkoop St, Ste 700
Denver CO, 80202

21-15S-16W

Job Ticket: 42805

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2011.03.28 @ 09:40:30

GENERAL INFORMATION:

Formation: **Lancing C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:00

Time Test Ended: 16:38:00

Interval: **3230.00 ft (KB) To 3268.00 ft (KB) (TVD)**

Total Depth: 3268.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Cody/Brett

Unit No: 47

Reference Elevations: 1870.00 ft (KB)

1862.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8369 Outside

Press @ Run Depth: psig @ 3231.00 ft (KB)

Start Date: 2011.03.28 End Date: 2011.03.28

Start Time: 09:40:22 End Time: 16:37:16

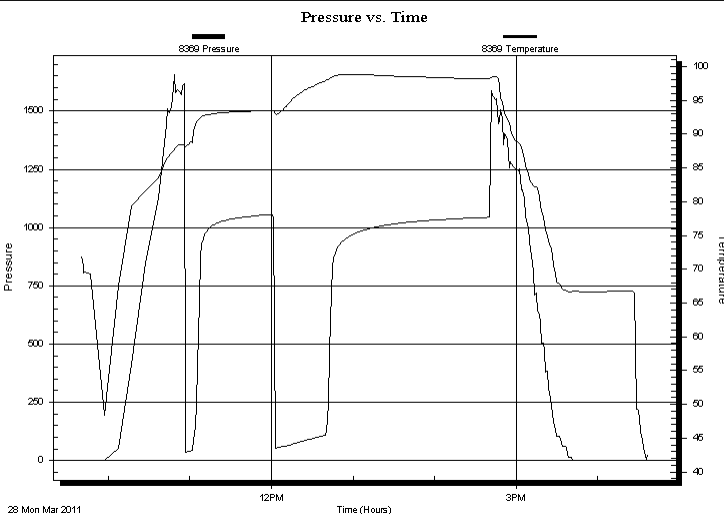
Capacity: 8000.00 psig

Last Calib.: 2011.03.28

Time On Btm:

Time Off Btm:

TEST COMMENT: 5min IF-B.O.B.-3Min
60min ISI- Surface blow
40min FF- B.O.B- 30Sec.
120min FSI-B.O.B- 12Min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	V SOGMCW 20%G 30%M 5% O 45%W	0.84
180.00	GSWCO 40%G 10%W 50%O	2.52
0.00	360ft GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass. Inc,
 1515 Wynkoop St, Ste 700
 Denver CO, 80202
 ATTN: Clayton Camozzi

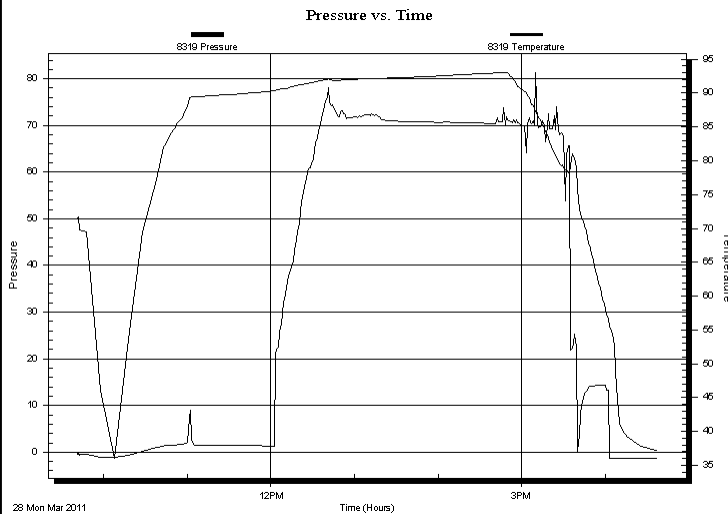
Scurlock #1-21
21-15S-16W
 Job Ticket: 42805 **DST#: 1**
 Test Start: 2011.03.28 @ 09:40:30

GENERAL INFORMATION:

Formation: **Lancing C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:57:00
 Time Test Ended: 16:38:00
 Interval: **3230.00 ft (KB) To 3268.00 ft (KB) (TVD)**
 Total Depth: 3268.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Cody/Brett
 Unit No: 47
 Reference Elevations: 1870.00 ft (KB)
 1862.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8319 Fluid
 Press @ Run Depth: psig @ 3201.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.03.28 End Date: 2011.03.28 Last Calib.: 2011.03.28
 Start Time: 09:40:51 End Time: 16:37:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 5min IF-B.O.B.-3Min
 60min ISI- Surface blow
 40min FF- B.O.B- 30Sec.
 120min FSI-B.O.B- 12Min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	V SOGMCW 20%G 30%M 5% O 45%W	0.84
180.00	GSWCO 40%G 10%W 50%O	2.52
0.00	360ft 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. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W
Job Ticket: 42805 **DST#: 1**
Test Start: 2011.03.28 @ 09:40:30

Tool Information

Drill Pipe:	Length: 3230.00 ft	Diameter: 3.80 inches	Volume: 45.31 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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:	46000.00 lb
			<u>Total Volume: 45.31 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3230.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	72.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	5.00			3201.00	
Recorder	0.00	8319	Fluid	3201.00	
Shut In Tool	5.00			3206.00	
Sampler	3.00			3209.00	
Hydraulic tool	5.00			3214.00	
Jars	5.00			3219.00	
Safety Joint	2.00			3221.00	
Packer	5.00			3226.00	34.00 Bottom Of Top Packer
Packer	4.00			3230.00	
Stubb	1.00			3231.00	
Recorder	0.00	6719	Inside	3231.00	
Recorder	0.00	8369	Outside	3231.00	
Perforations	34.00			3265.00	
Bullnose	3.00			3268.00	38.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W
Job Ticket: 42805 **DST#: 1**
Test Start: 2011.03.28 @ 09:40:30

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: 140000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: inches		

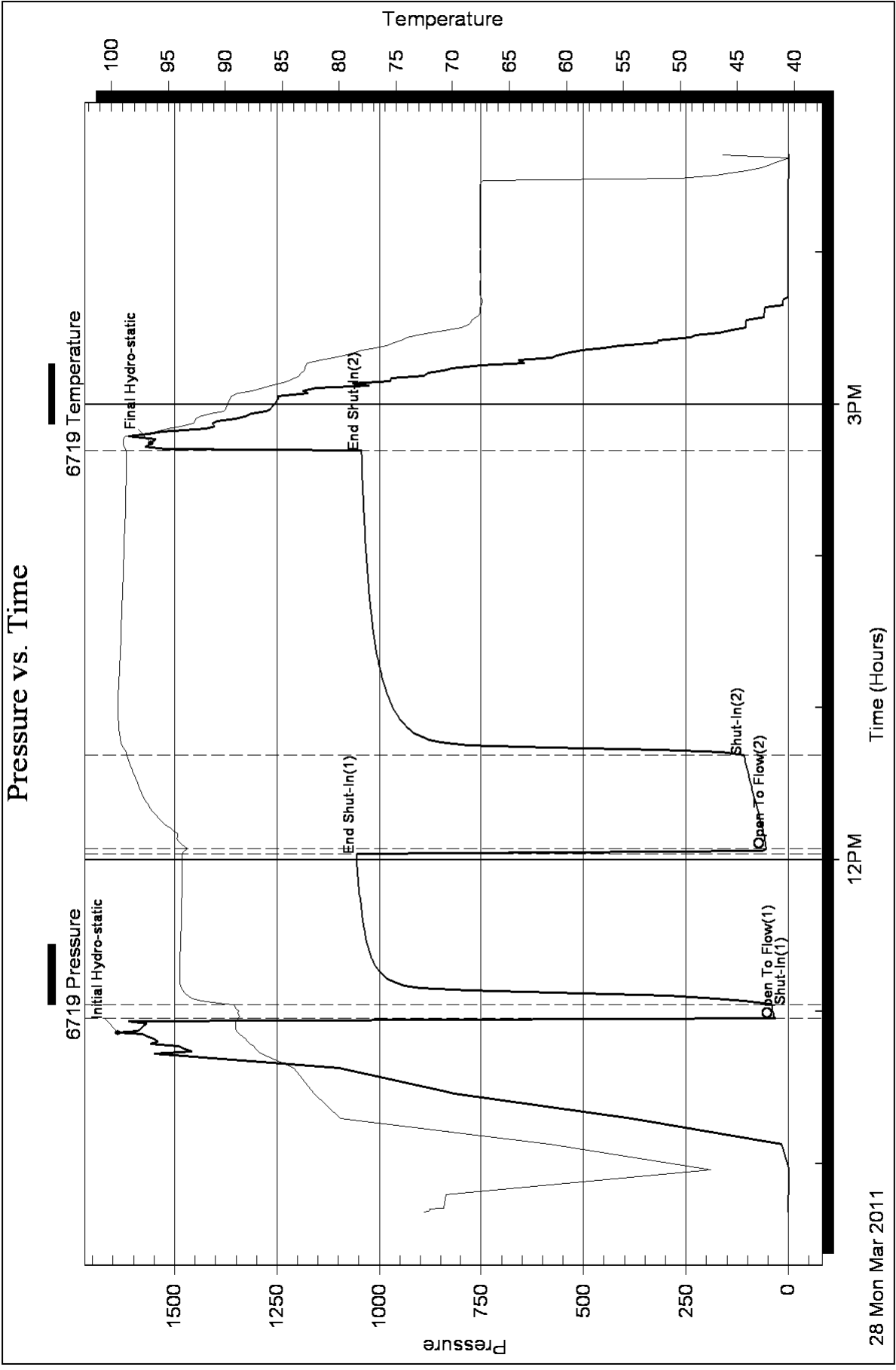
Recovery Information

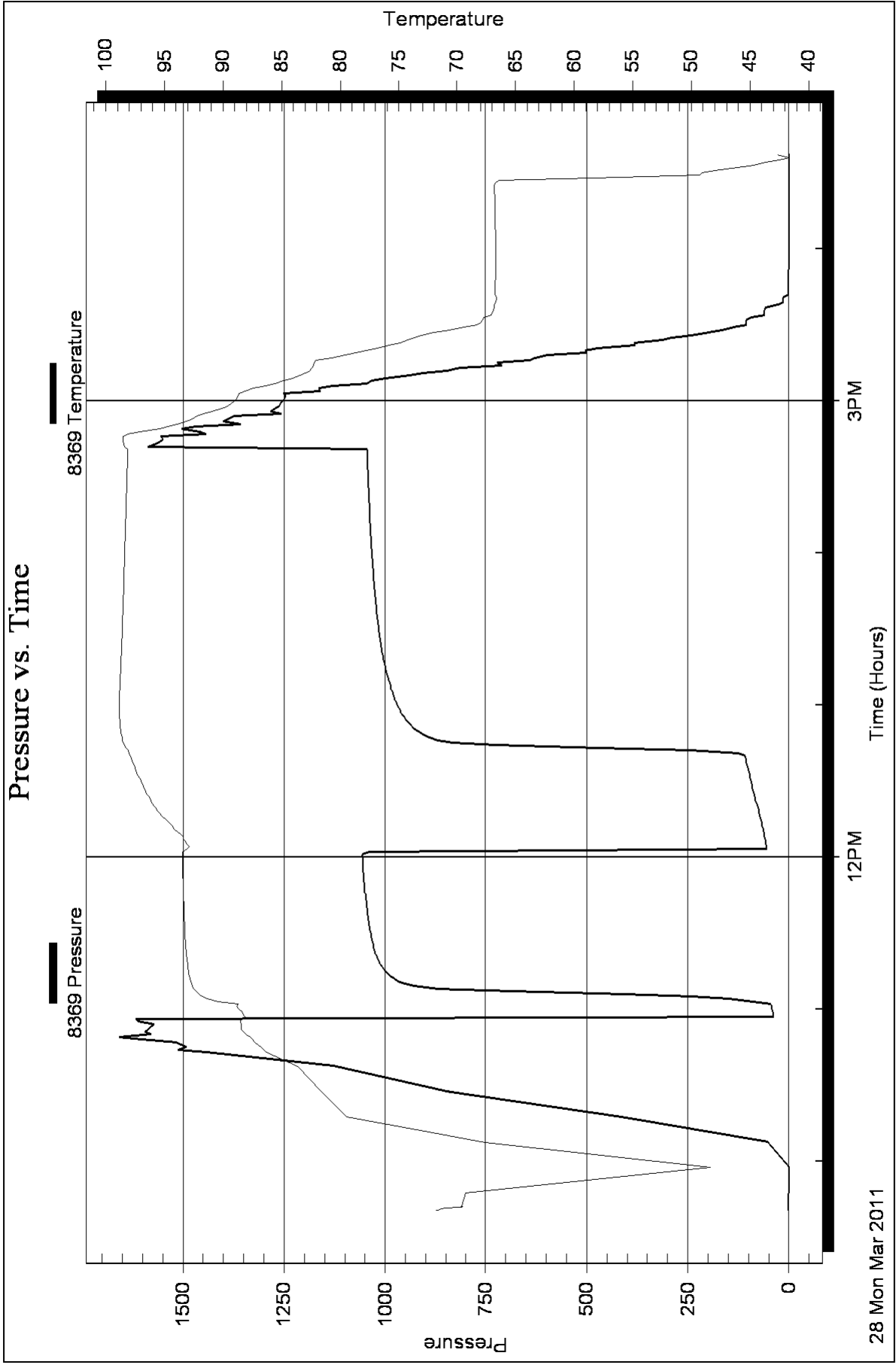
Recovery Table

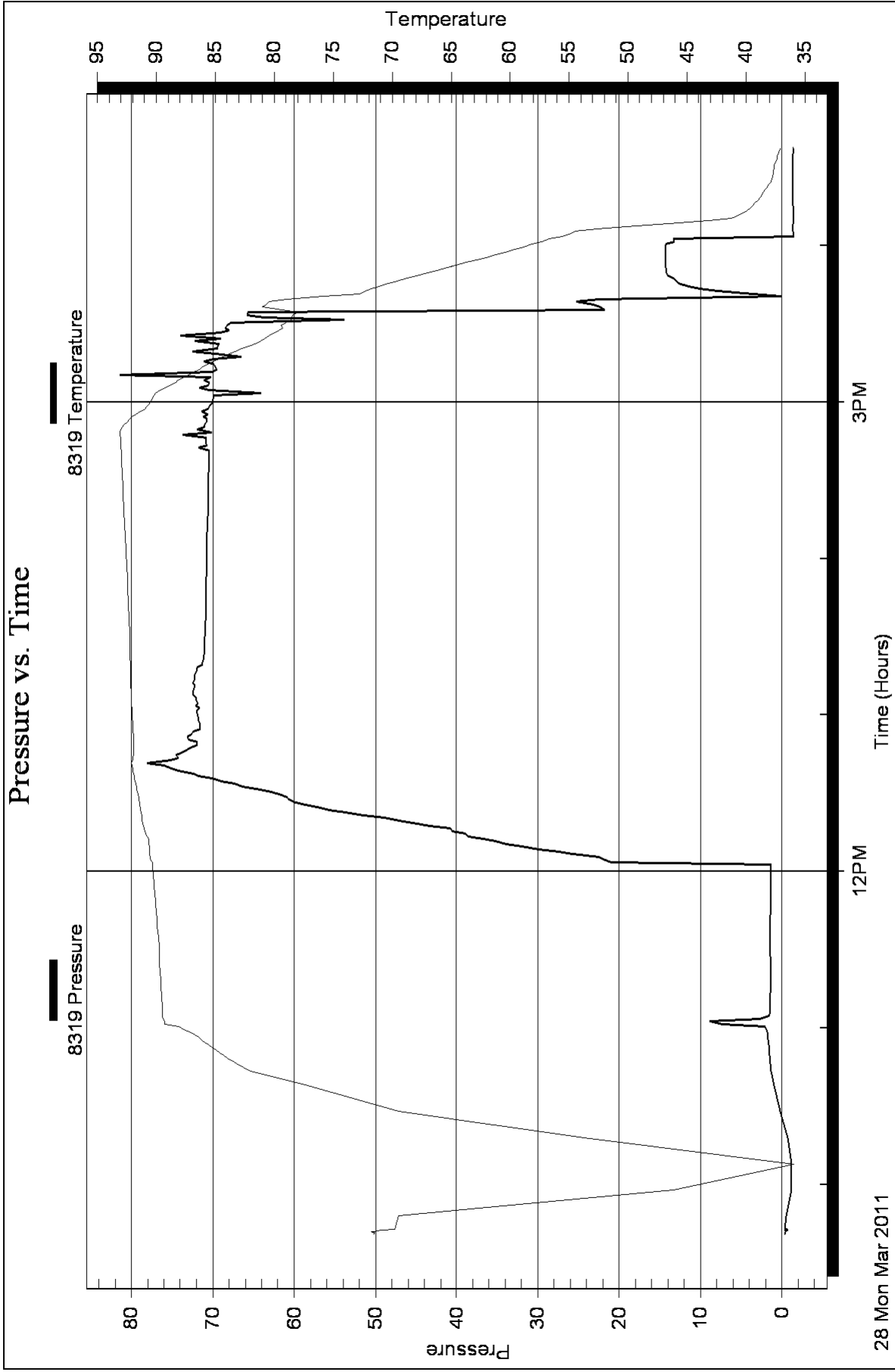
Length ft	Description	Volume bbl
60.00	V SOGMCW 20%G 30%M 5% O 45%W	0.842
180.00	G SWCO 40%G 10%W 50%O	2.525
0.00	360ft GIP	0.000

Total Length: 240.00 ft Total Volume: 3.367 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Drillpipe Water RW .11 @ 40 F Chloridees 140000
 Sampler Data: 3000ml Oil 1000mlGas 380 PSI

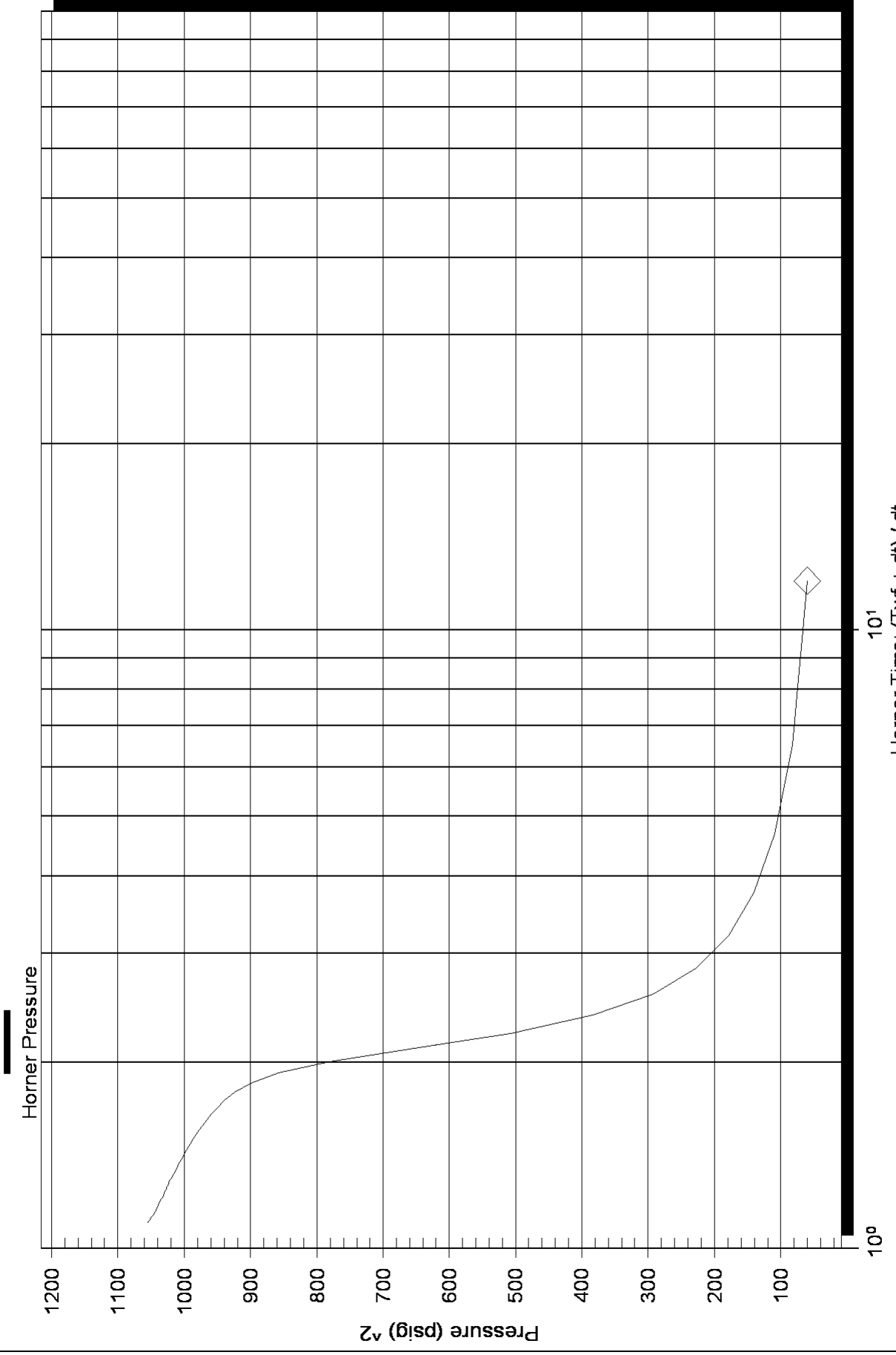
Pressure vs. Time



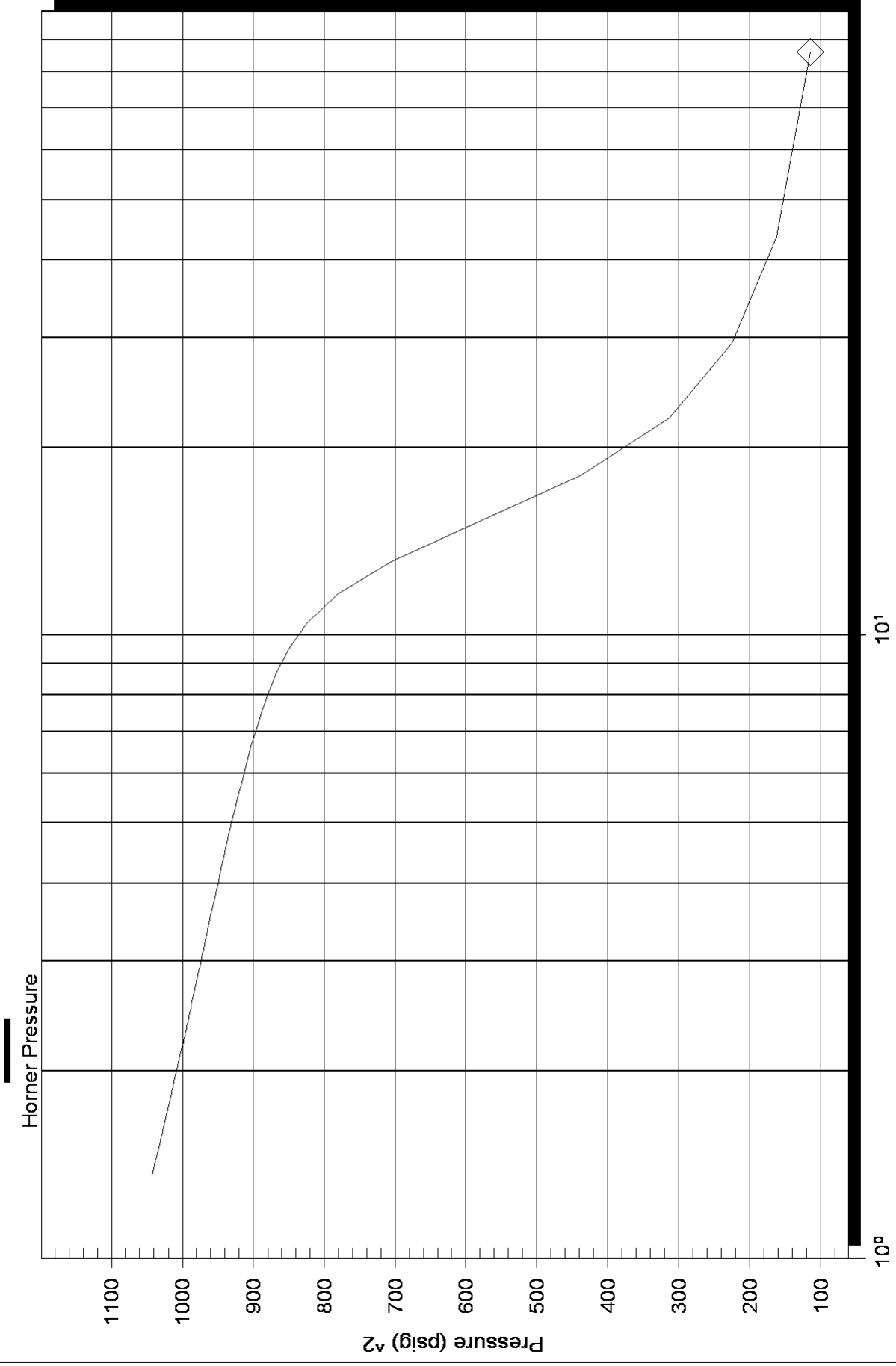




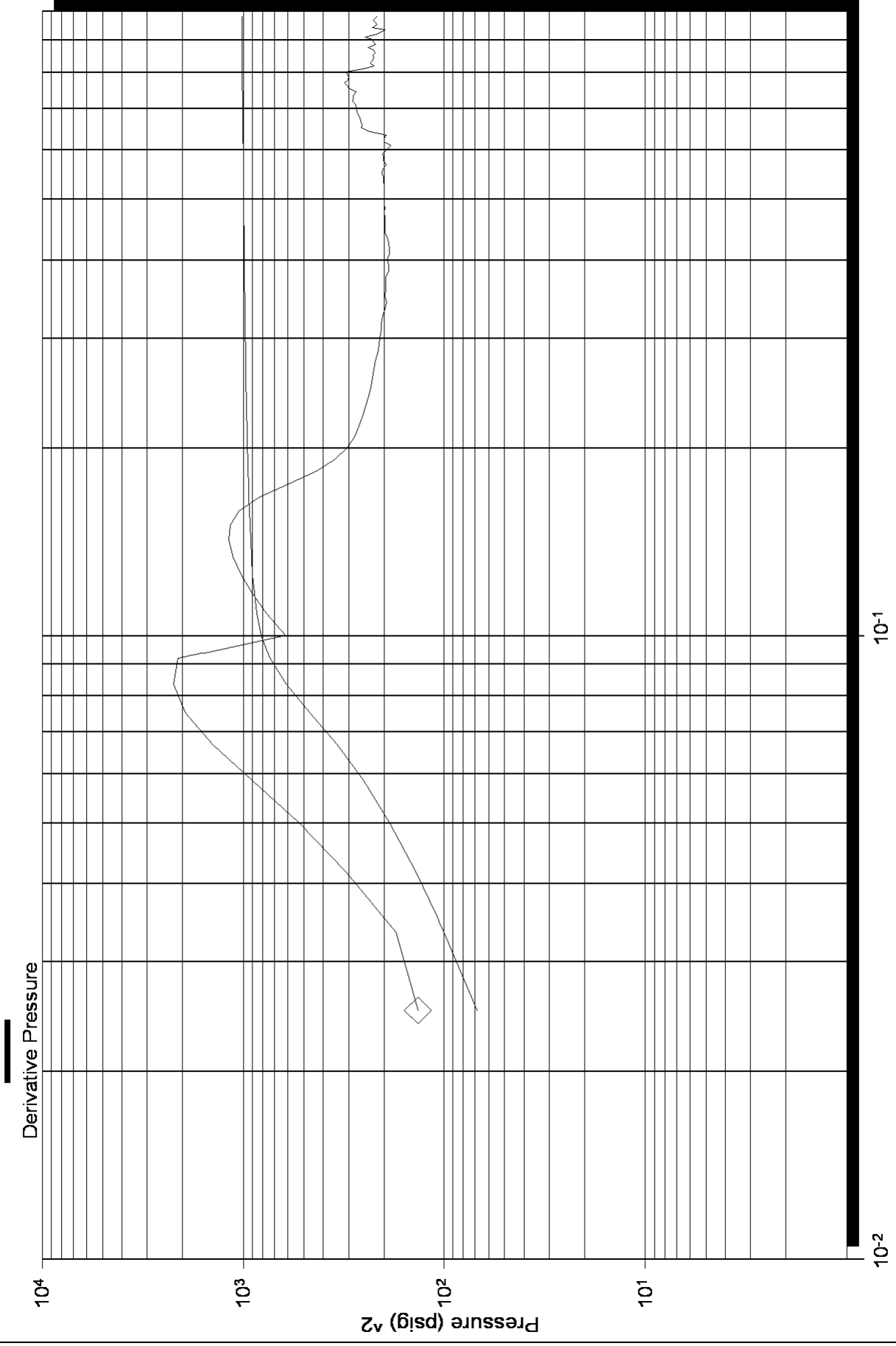
Homer Plot



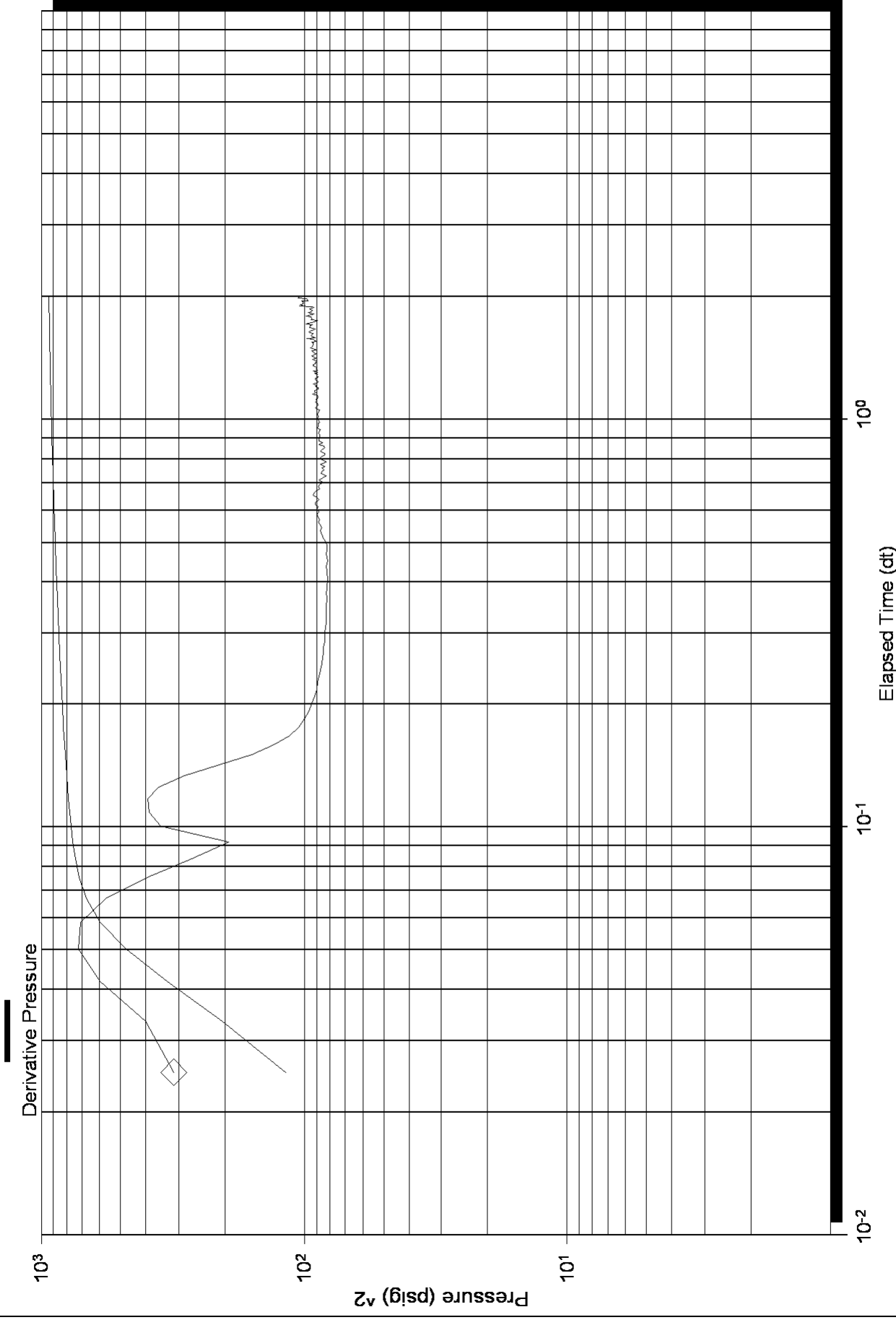
Homer Plot



Log-Log and Pseudo-Log-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Ass. Inc,**

1515 Wynkoop St, Ste 700
Denver CO, 80202

ATTN: Clayton Camozzi

21-15S-16W

Scurlock #1-21

Start Date: 2011.03.29 @ 01:45:15

End Date: 2011.03.29 @ 10:40:45

Job Ticket #: 42806 DST #: 2

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21

21-15S-16W

Job Ticket: 42806

DST#: 2

Test Start: 2011.03.29 @ 01:45:15

GENERAL INFORMATION:

Formation: **KC "F,G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:45:15

Time Test Ended: 10:40:45

Test Type: Conventional Bottom Hole

Tester: Cody/Brett

Unit No: 47

Interval: 3270.00 ft (KB) To 3312.00 ft (KB) (TVD)

Reference Elevations: 1870.00 ft (KB)

Total Depth: 3312.00 ft (KB) (TVD)

1862.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 84.21 psig @ 3271.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.29

End Date:

2011.03.29

Last Calib.:

2011.03.29

Start Time: 01:45:20

End Time:

10:40:45

Time On Btm:

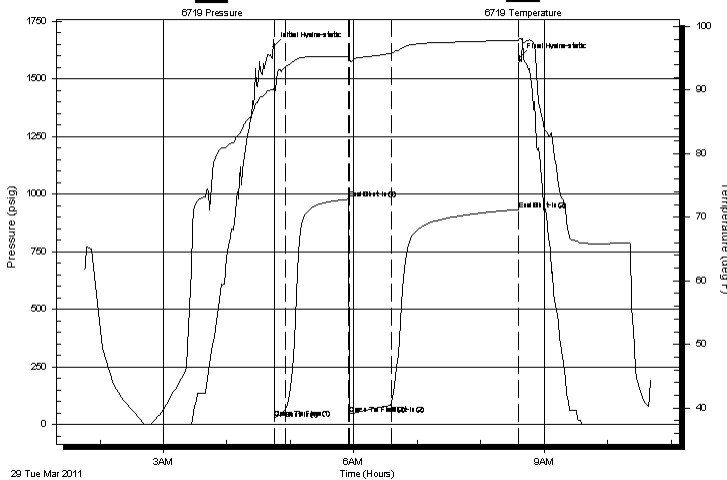
2011.03.29 @ 04:44:15

Time Off Btm:

2011.03.29 @ 08:36:45

TEST COMMENT: 10- IF- B.O.B- 4 1/2 Min.
60- IS- No Blow back
40- FF- B.O.B- Immediatly
120- FS- 1 1/4" blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.27	90.17	Initial Hydro-static
1	26.78	89.93	Open To Flow (1)
11	60.01	93.68	Shut-In(1)
71	977.54	95.31	End Shut-In(1)
72	46.50	94.87	Open To Flow (2)
111	84.21	95.78	Shut-In(2)
231	933.15	97.86	End Shut-In(2)
233	1592.89	98.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 30%G 30%O 40%M	1.68
15.00	SGMCO 10%G 40%M 50%O	0.21
15.00	SGO 10%G 90%O	0.21
0.00	420ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21

21-15S-16W

Job Ticket: 42806

DST#: 2

Test Start: 2011.03.29 @ 01:45:15

GENERAL INFORMATION:

Formation: **KC "F,G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:45:15

Time Test Ended: 10:40:45

Test Type: Conventional Bottom Hole

Tester: Cody/Brett

Unit No: 47

Interval: 3270.00 ft (KB) To 3312.00 ft (KB) (TVD)

Reference Elevations: 1870.00 ft (KB)

Total Depth: 3312.00 ft (KB) (TVD)

1862.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369 Fluid

Press @ Run Depth: psig @ 3241.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.29

End Date: 2011.03.29

Last Calib.: 2011.03.29

Start Time: 01:45:06

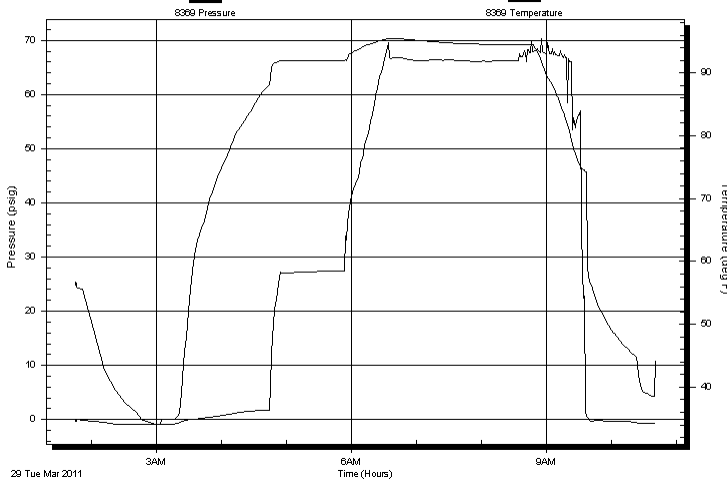
End Time: 10:40:31

Time On Btm:

Time Off Btm:

TEST COMMENT: 10- IF- B.O.B- 4 1/2 Min.
60- IS- No Blow back
40- FF- B.O.B- Immediatly
120- FS- 1 1/4" blow

Pressure vs. Time



PRESSURE SUMMARY

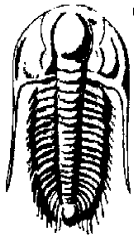
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 30%G 30%O 40%M	1.68
15.00	SGMCO 10%G 40%M 50%O	0.21
15.00	SGO 10%G 90%O	0.21
0.00	420ft GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W
Job Ticket: 42806 **DST#: 2**
Test Start: 2011.03.29 @ 01:45:15

GENERAL INFORMATION:

Formation: **KC "F,G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:45:15
 Time Test Ended: 10:40:45
 Interval: **3270.00 ft (KB) To 3312.00 ft (KB) (TVD)**
 Total Depth: 3312.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Cody/Brett
 Unit No: 47
 Reference Elevations: 1870.00 ft (KB)
 1862.00 ft (CF)
 KB to GR/CF: 8.00 ft

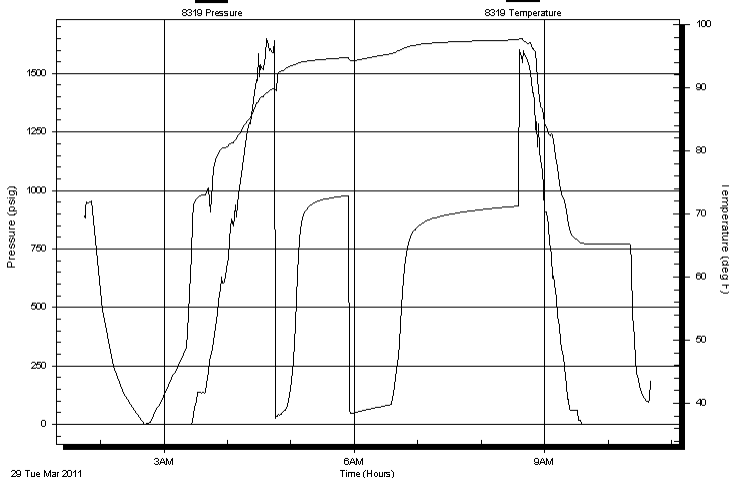
Serial #: 8319

Inside

Press@RunDepth: psig @ 3271.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.03.29 End Date: 2011.03.29 Last Calib.: 2011.03.29
 Start Time: 01:44:50 End Time: 10:40:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 10- IF- B.O.B- 4 1/2 Min.
60- IS- No Blow back
40- FF- B.O.B- Immediatly
120- FS- 1 1/4" blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 30%G 30%O 40%M	1.68
15.00	SGMCO 10%G 40%M 50%O	0.21
15.00	SGO 10%G 90%O	0.21
0.00	420ft 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. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W
Job Ticket: 42806 **DST#: 2**
Test Start: 2011.03.29 @ 01:45:15

Tool Information

Drill Pipe:	Length: 3258.00 ft	Diameter: 3.80 inches	Volume: 45.70 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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:	47000.00 lb
			<u>Total Volume: 45.70 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3270.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	76.00 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	5.00			3241.00	
Recorder	0.00	8369	Fluid	3241.00	
Shut In Tool	5.00			3246.00	
Sampler	3.00			3249.00	
Hydraulic tool	5.00			3254.00	
Jars	5.00			3259.00	
Safety Joint	2.00			3261.00	
Packer	5.00			3266.00	34.00 Bottom Of Top Packer
Packer	4.00			3270.00	
Stubb	1.00			3271.00	
Recorder	0.00	6719	Inside	3271.00	
Recorder	0.00	8319	Inside	3271.00	
Perforations	4.00			3275.00	
Change Over Sub	1.00			3276.00	
Drill Pipe	32.00			3308.00	
Change Over Sub	1.00			3309.00	
Bullnose	3.00			3312.00	42.00 Bottom Packers & Anchor
Total Tool Length:	76.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W
Job Ticket: 42806 **DST#: 2**
Test Start: 2011.03.29 @ 01:45:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GOCM 30%G 30%O 40%M	1.683
15.00	SGMCO 10%G 40%M 50%O	0.210
15.00	SGO 10%G 90%O	0.210
0.00	420ft GIP	0.000

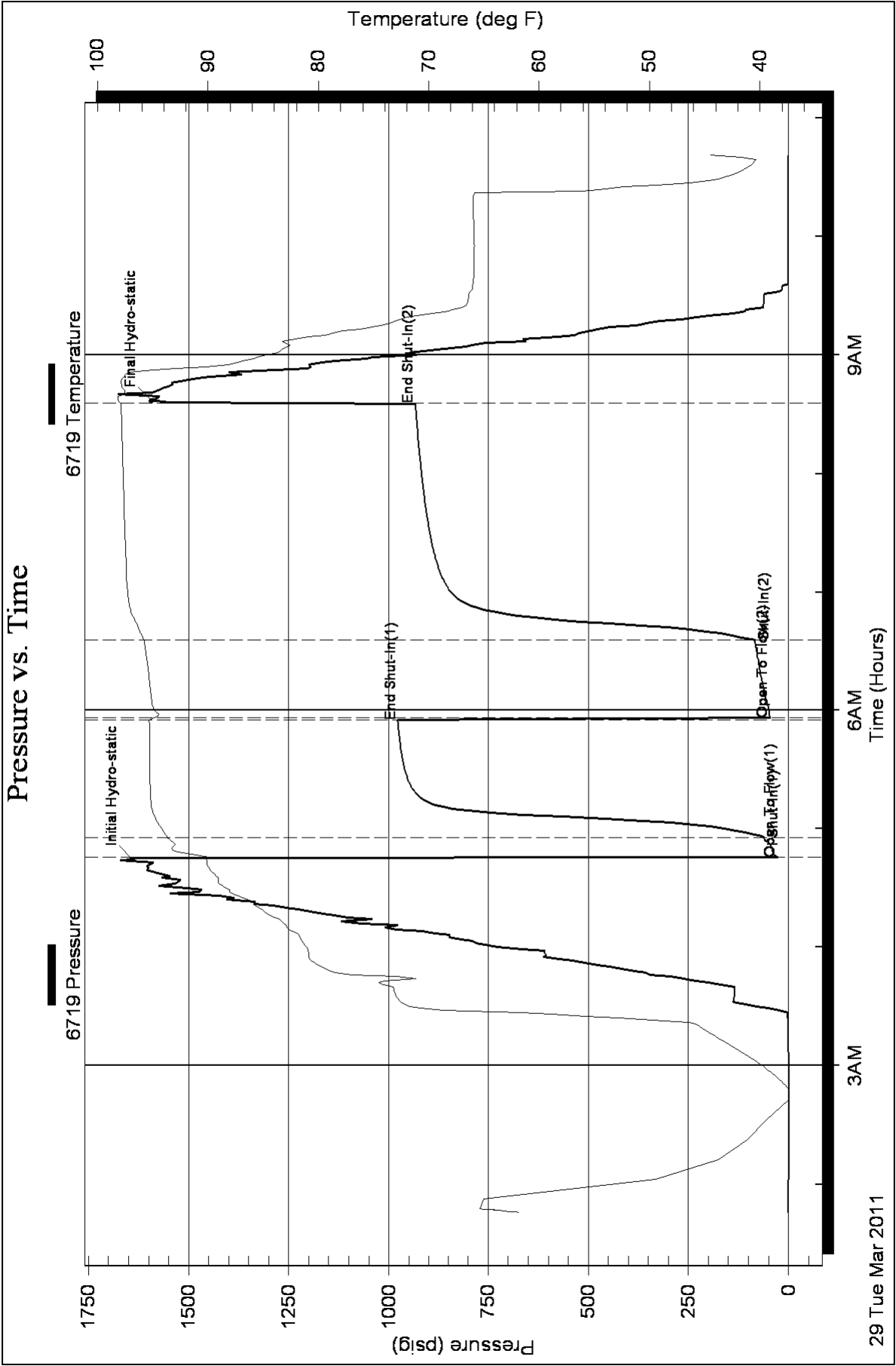
Total Length: 150.00 ft Total Volume: 2.103 bbl

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

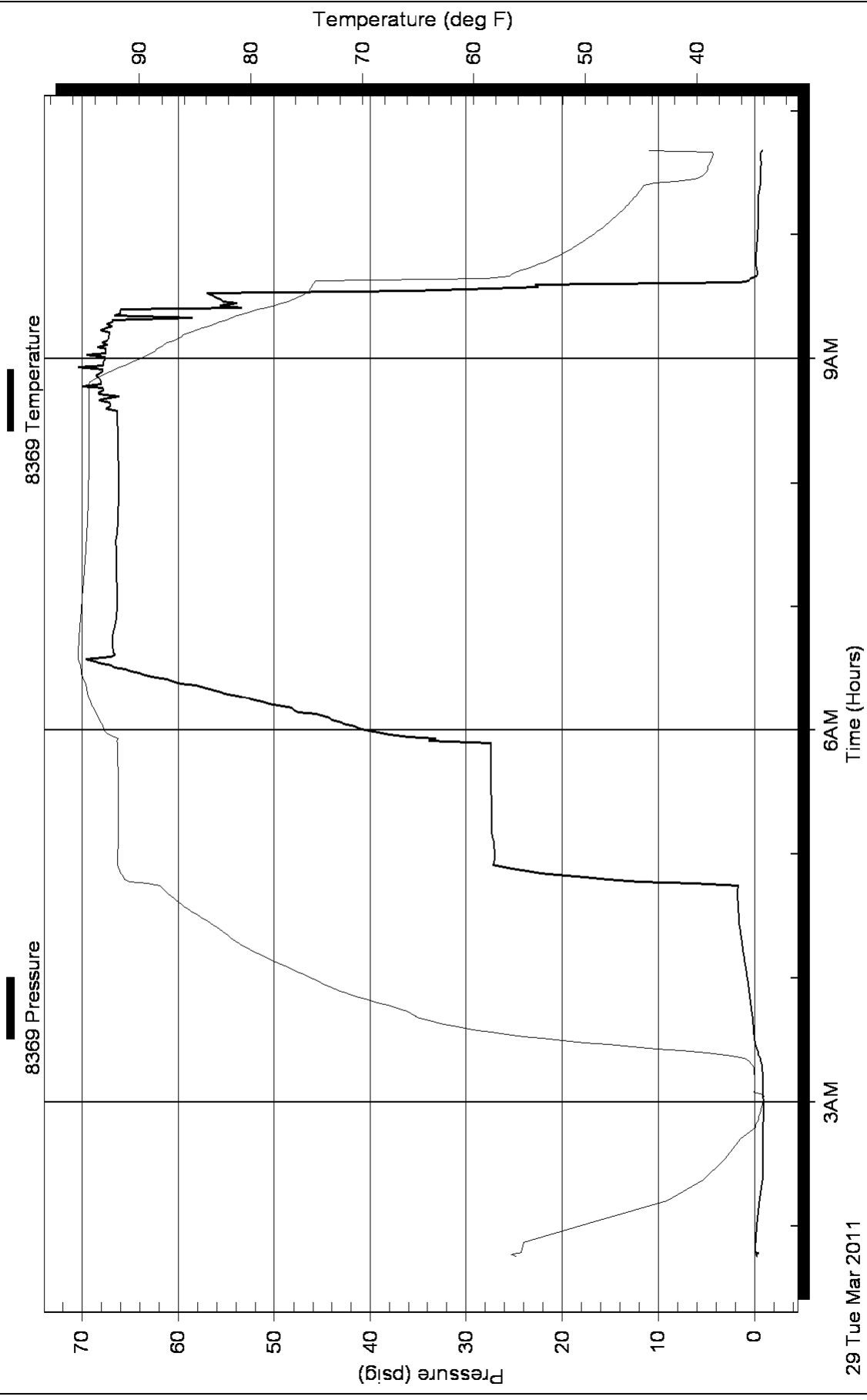
Laboratory Name: Laboratory Location:

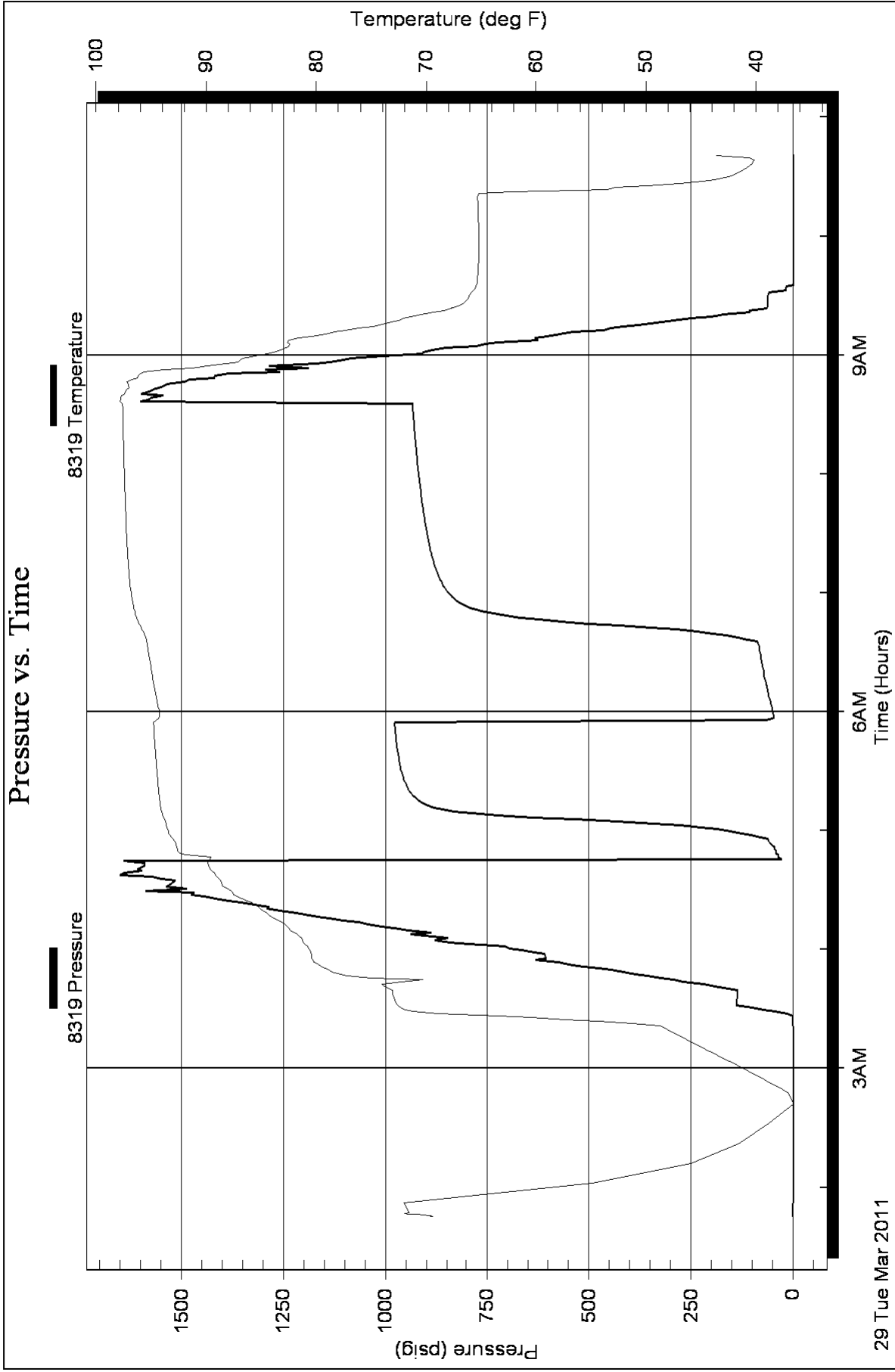
Recovery Comments: Sampler Data
500ml Mud 2500ml Oil 1000ml Gas 360psi

Pressure vs. Time

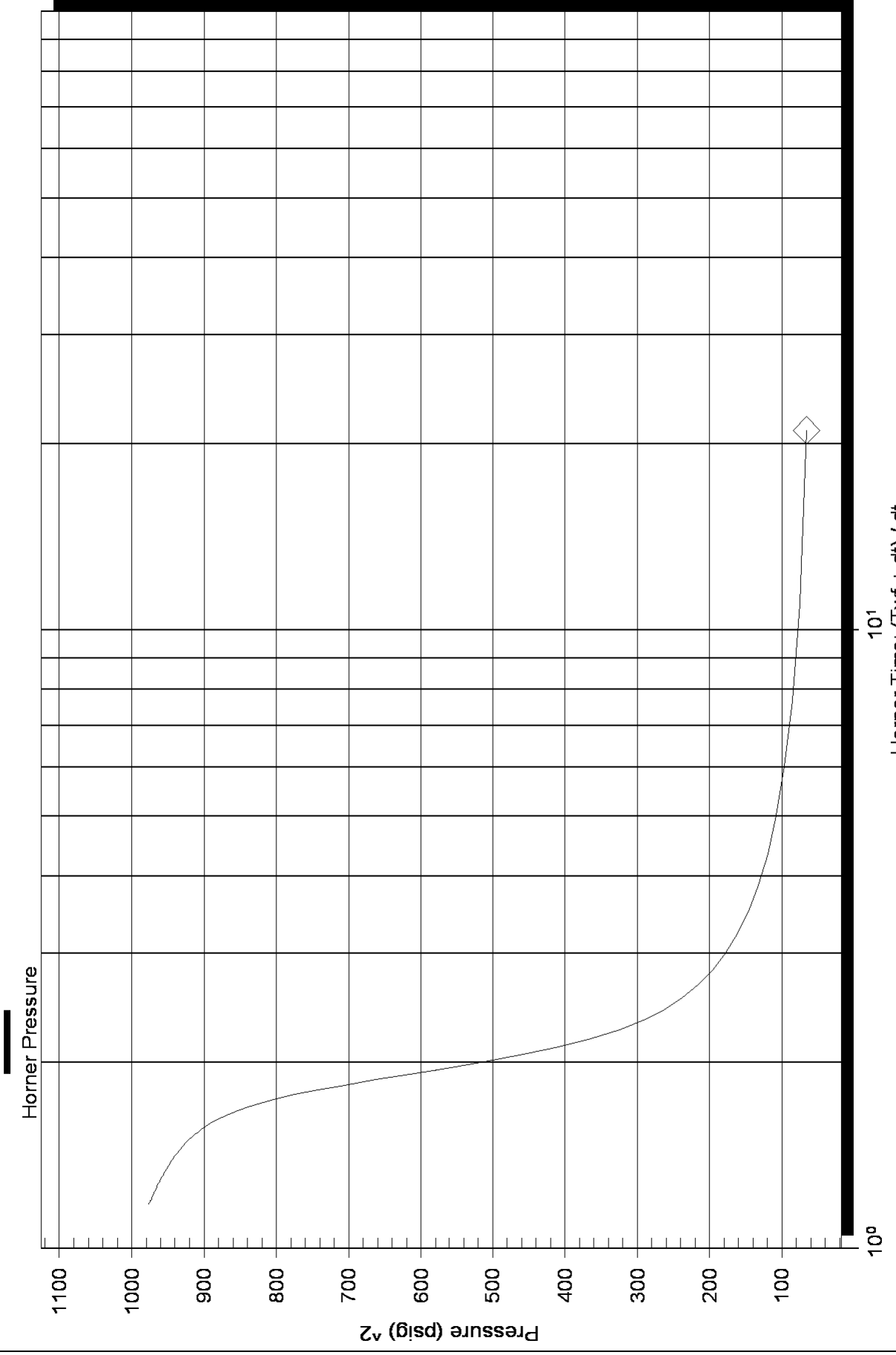


Pressure vs. Time

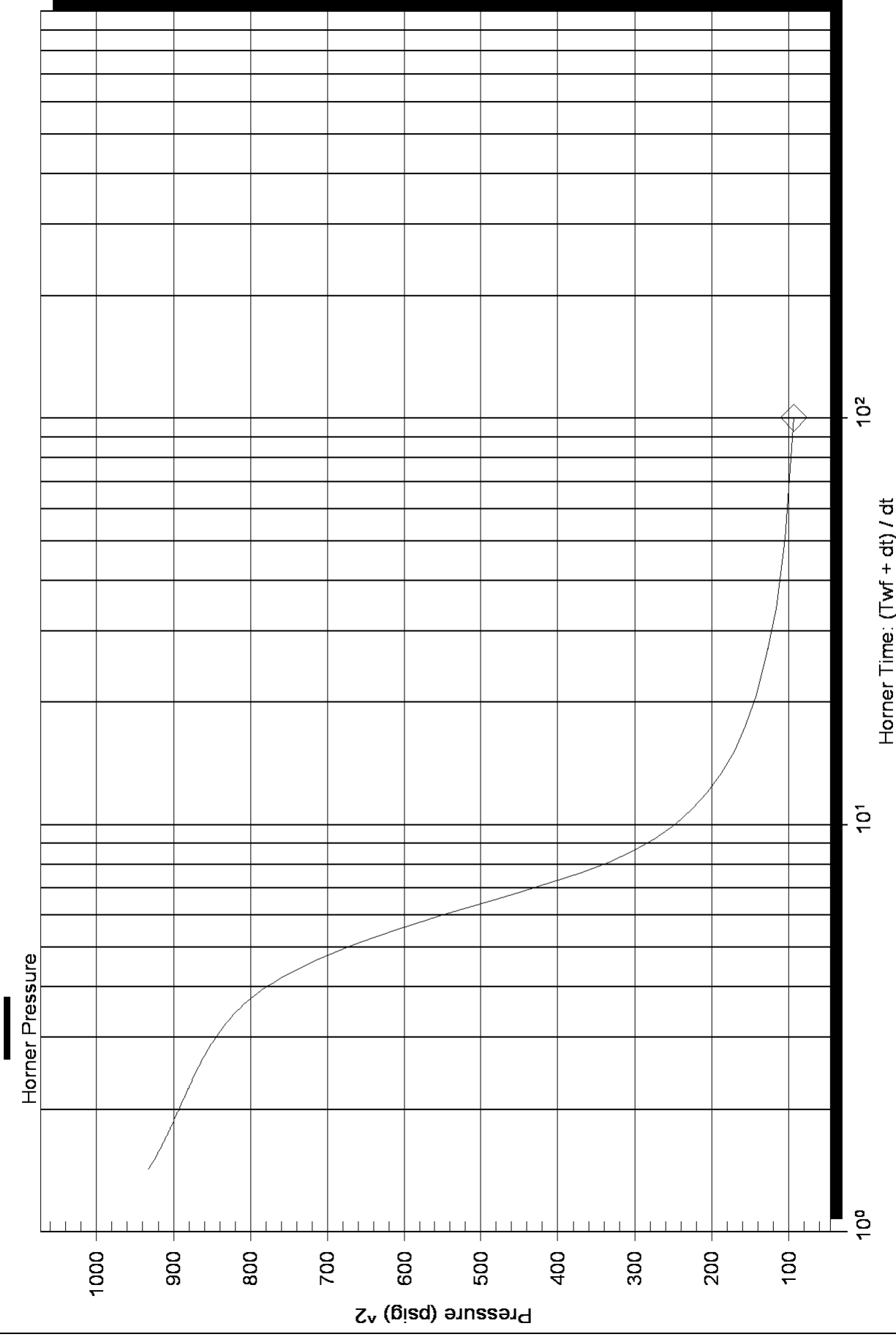




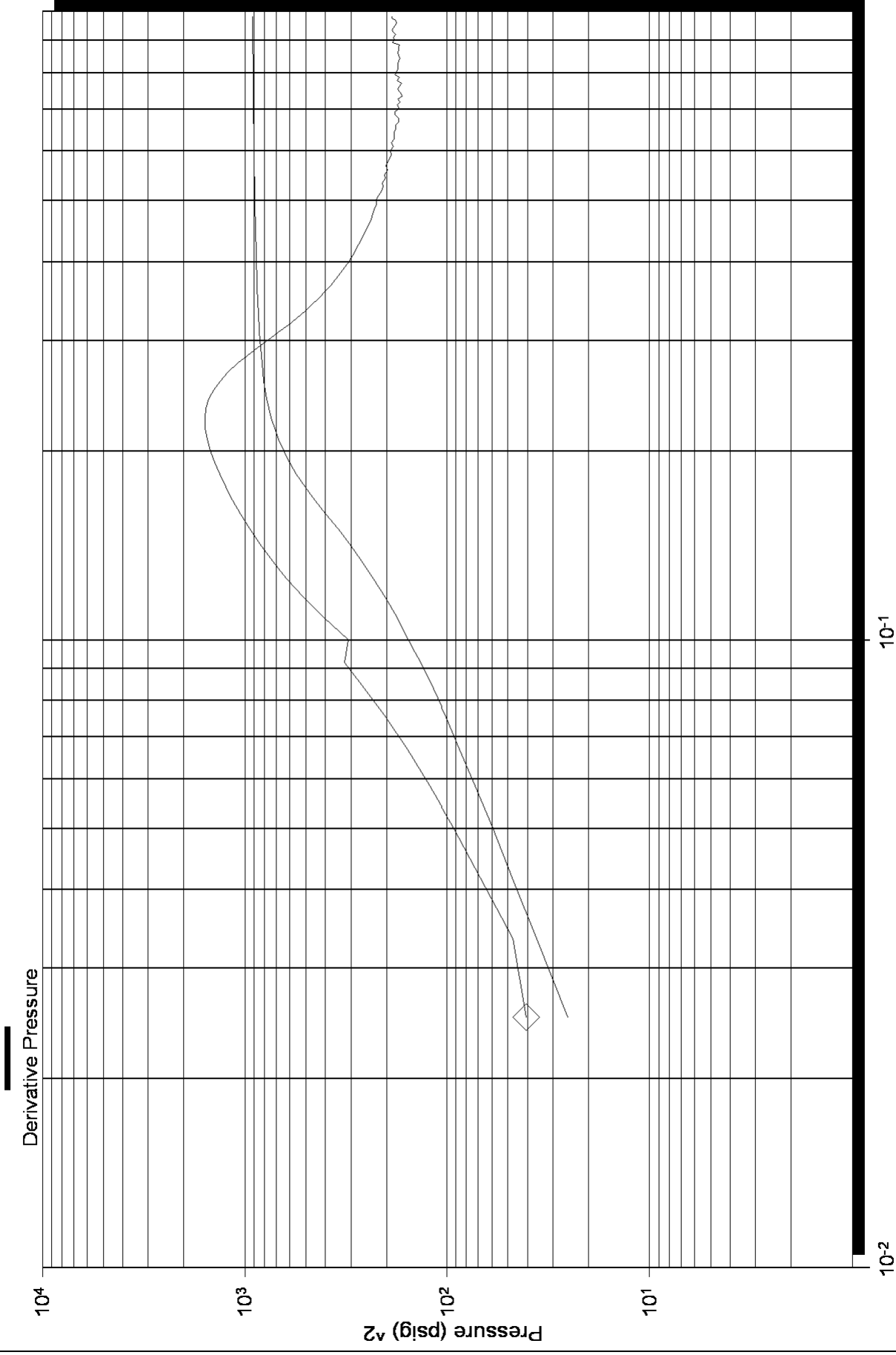
Homer Plot



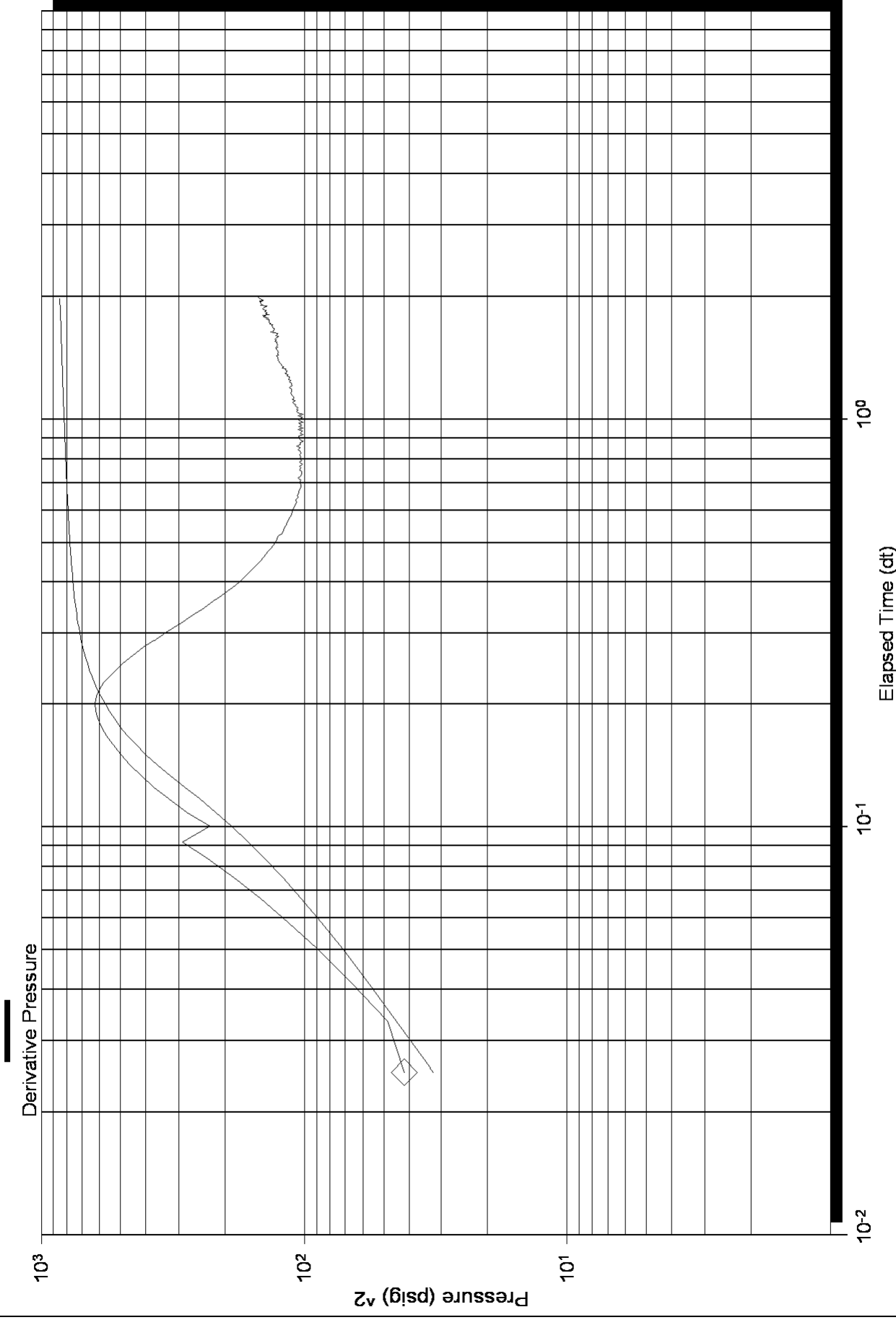
Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Ass. Inc,**

1515 Wynkoop St, Ste 700
Denver CO, 80202

ATTN: Clayton Camozzi

21-15S-16W

Scurlock #1-21

Start Date: 2011.03.29 @ 13:00:26

End Date: 2011.03.29 @ 20:35:26

Job Ticket #: 42807 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21

21-15S-16W

Job Ticket: 42807

DST#: 3

Test Start: 2011.03.29 @ 13:00:26

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:24:56

Time Test Ended: 20:35:26

Test Type: Conventional Bottom Hole

Tester: Cody/Brett

Unit No: 47

Interval: 3348.00 ft (KB) To 3409.00 ft (KB) (TVD)

Reference Elevations: 1870.00 ft (KB)

Total Depth: 3268.00 ft (KB) (TVD)

1862.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6719 Inside

Press @ Run Depth: 199.24 psig @ 3349.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.29

End Date:

2011.03.29

Last Calib.:

2011.03.30

Start Time: 13:00:31

End Time:

20:35:25

Time On Btm:

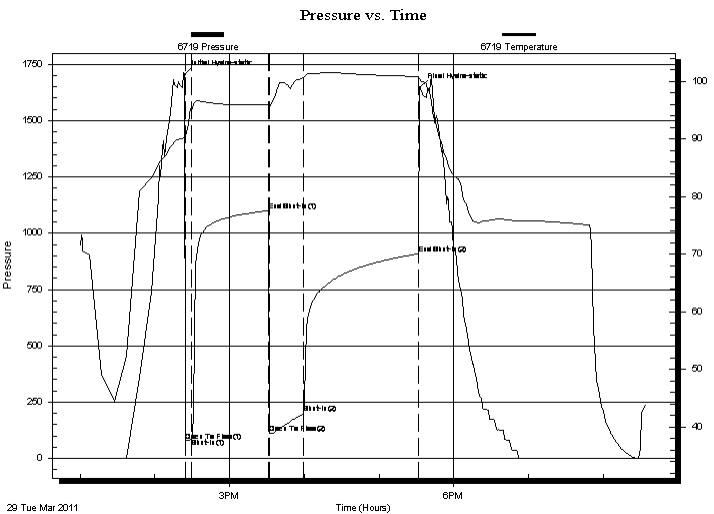
2011.03.29 @ 14:23:56

Time Off Btm:

2011.03.29 @ 17:32:56

TEST COMMENT: 5 IF- B.O.B 2 Min.
60 IS- 1/4" Blow , died in 35Min.
30 FF- B.O.B. 4 Min
90 FS- Surface blow , Died in 17 Min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.82	90.38	Initial Hydro-static
1	75.51	90.49	Open To Flow (1)
6	88.10	95.44	Shut-In(1)
67	1099.19	95.93	End Shut-In(1)
68	112.43	95.54	Open To Flow (2)
96	199.24	100.69	Shut-In(2)
188	907.93	100.87	End Shut-In(2)
189	1644.11	100.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	GOCM 30%G 30%O 40%M	1.40
120.00	SMGO 30%G 55%O 15%M	1.68
120.00	SMCGO 40%G 40%O 20%M	1.68
120.00	SGMO15%G 70%O 15%M	1.68
0.00	180ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W
Job Ticket: 42807 **DST#: 3**
Test Start: 2011.03.29 @ 13:00:26

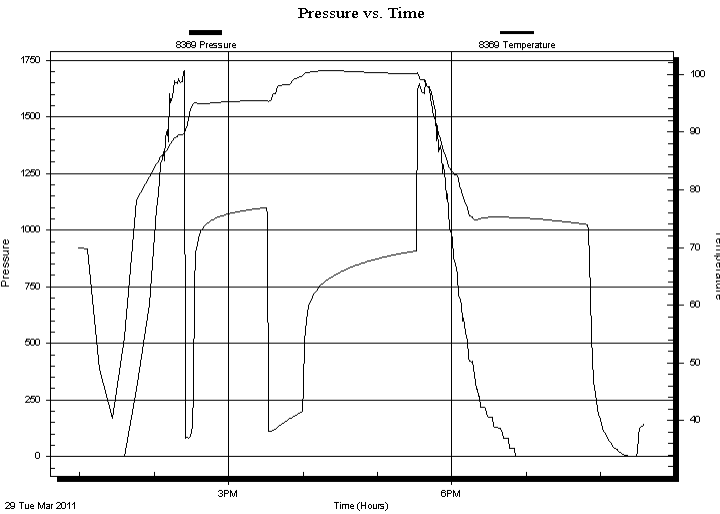
GENERAL INFORMATION:

Formation: **KC "H,I,J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:24:56
Time Test Ended: 20:35:26
Interval: 3348.00 ft (KB) To 3409.00 ft (KB) (TVD)
Total Depth: 3268.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Cody/Brett
Unit No: 47
Reference Elevations: 1870.00 ft (KB)
1862.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8369 Outside

Press @ Run Depth: psig @ 3349.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.29 End Date: 2011.03.29 Last Calib.: 2011.03.30
Start Time: 12:59:01 End Time: 20:35:55 Time On Btm:
Time Off Btm:

TEST COMMENT: 5 IF- B.O.B 2 Min.
60 IS- 1/4" Blow , died in 35Min.
30 FF- B.O.B. 4 Min
90 FS- Surface blow , Died in 17 Min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
100.00	GOCM 30%G 30%O 40%M	1.40
120.00	SMGO 30%G 55%O 15%M	1.68
120.00	SMCGO 40%G 40%O 20%M	1.68
120.00	SGMO15%G 70%O 15%M	1.68
0.00	180ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21

21-15S-16W

Job Ticket: 42807

DST#: 3

Test Start: 2011.03.29 @ 13:00:26

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:24:56

Time Test Ended: 20:35:26

Test Type: Conventional Bottom Hole

Tester: Cody/Brett

Unit No: 47

Interval: 3348.00 ft (KB) To 3409.00 ft (KB) (TVD)

Reference Elevations: 1870.00 ft (KB)

Total Depth: 3268.00 ft (KB) (TVD)

1862.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319 Fluid

Press @ RunDepth: psig @ 3319.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.29

End Date: 2011.03.29

Last Calib.: 2011.03.30

Start Time: 13:00:32

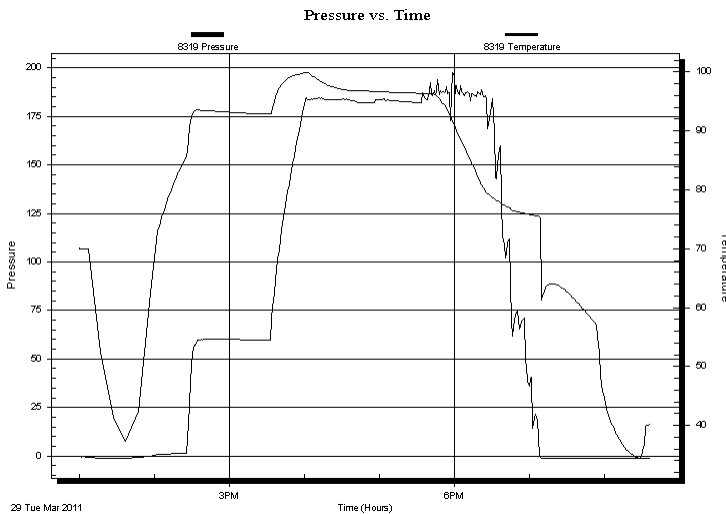
End Time: 20:37:26

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 IF- B.O.B 2 Min.
60 IS- 1/4" Blow , died in 35Min.
30 FF- B.O.B. 4 Min
90 FS- Surface blow , Died in 17 Min.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
100.00	GOCM 30%G 30%O 40%M	1.40
120.00	SMGO 30%G 55%O 15%M	1.68
120.00	SMCGO 40%G 40%O 20%M	1.68
120.00	SGMO15%G 70%O 15%M	1.68
0.00	180ft 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. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W
Job Ticket: 42807 **DST#: 3**
Test Start: 2011.03.29 @ 13:00:26

Tool Information

Drill Pipe:	Length: 3368.00 ft	Diameter: 3.80 inches	Volume: 47.24 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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:	45000.00 lb
			<u>Total Volume: 47.24 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	54.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3348.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	61.00 ft				
Tool Length:	95.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	5.00			3319.00	
Recorder	0.00	8319	Fluid	3319.00	
Shut In Tool	5.00			3324.00	
Sampler	3.00			3327.00	
Hydraulic tool	5.00			3332.00	
Jars	5.00			3337.00	
Safety Joint	2.00			3339.00	
Packer	5.00			3344.00	34.00 Bottom Of Top Packer
Packer	4.00			3348.00	
Stubb	1.00			3349.00	
Recorder	0.00	6719	Inside	3349.00	
Recorder	0.00	8369	Outside	3349.00	
Perforations	57.00			3406.00	
Bullnose	3.00			3409.00	61.00 Bottom Packers & Anchor

Total Tool Length: 95.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W
Job Ticket: 42807 **DST#: 3**
Test Start: 2011.03.29 @ 13:00:26

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: 8.76 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

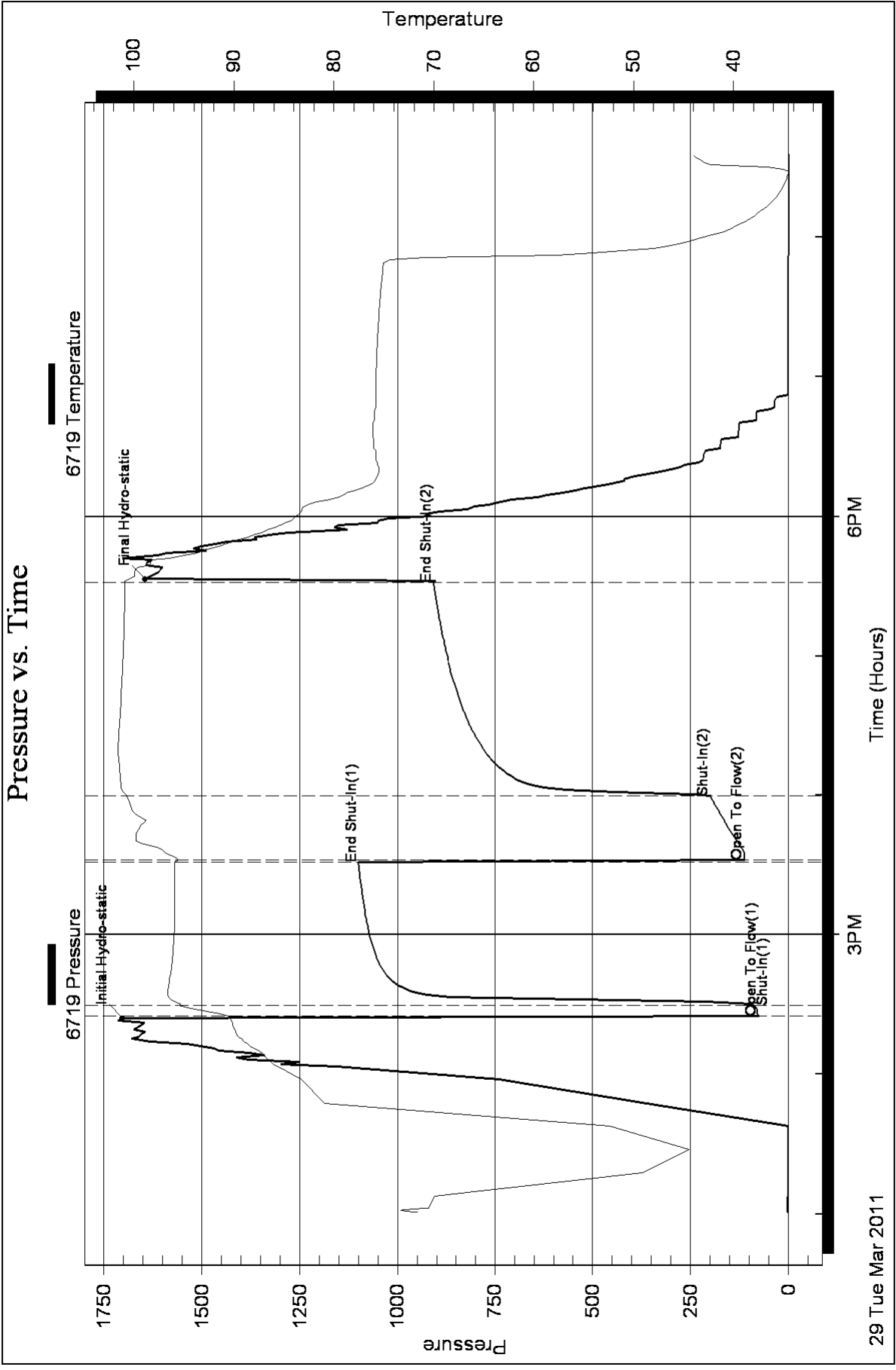
Recovery Information

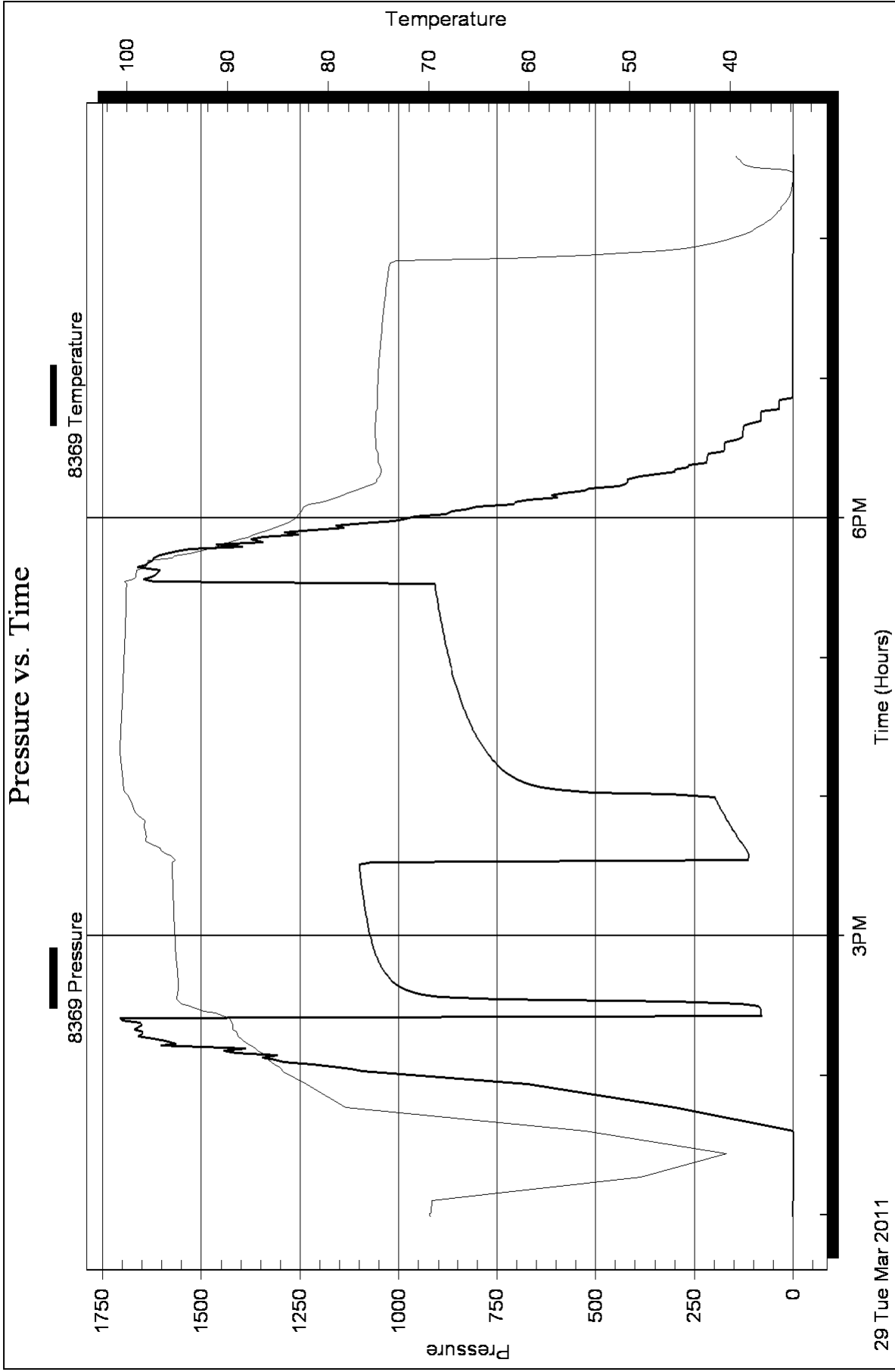
Recovery Table

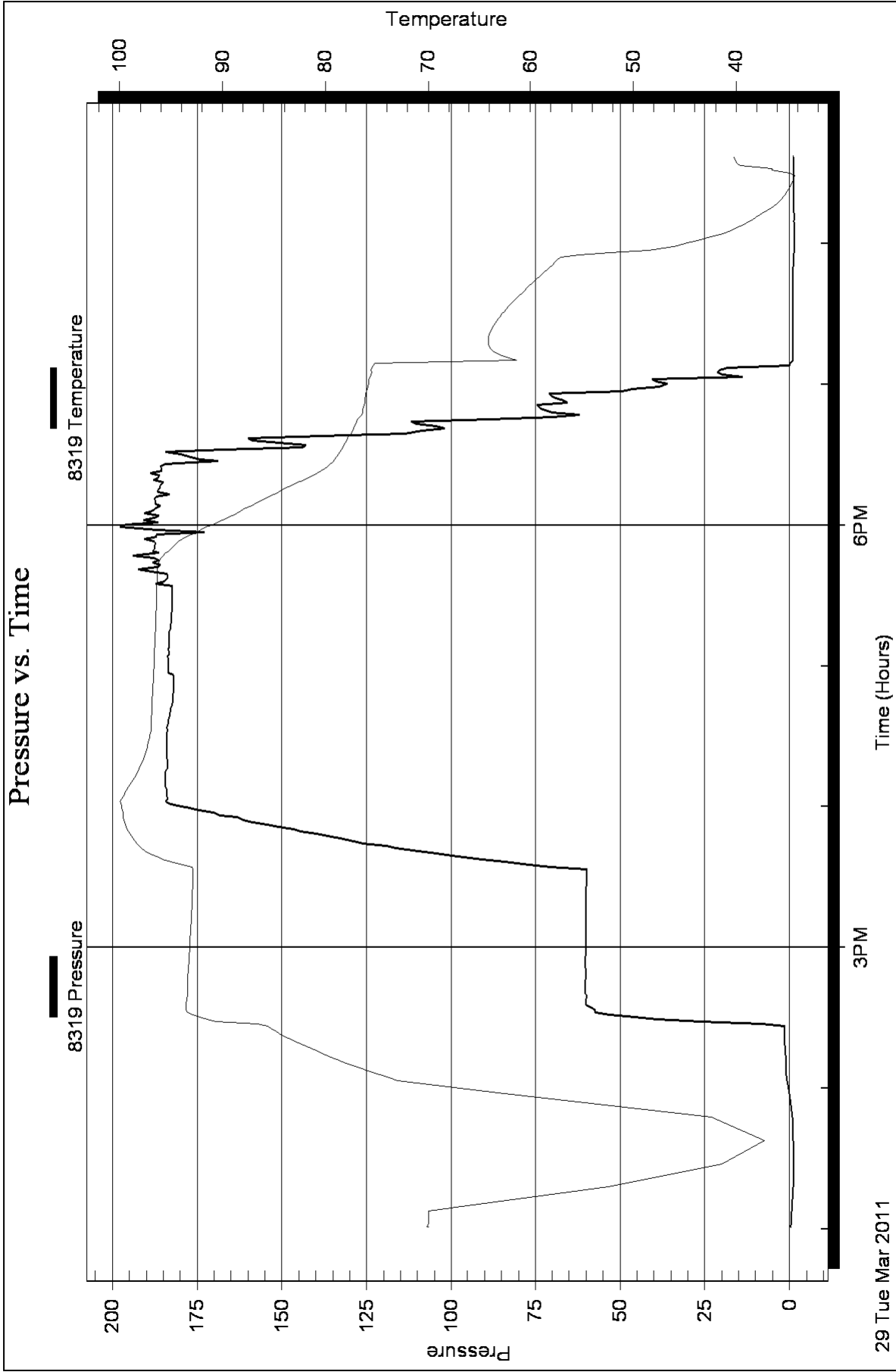
Length ft	Description	Volume bbl
100.00	GOCM 30%G 30%O 40%M	1.403
120.00	SMGO 30%G 55%O 15%M	1.683
120.00	SMCGO 40%G 40%O 20%M	1.683
120.00	SGMO15%G 70%O 15%M	1.683
0.00	180ft GIP	0.000

Total Length: 460.00 ft Total Volume: 6.452 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Sampler Data
 2750 ML Oil 250 ML Mud 1000 ML Gas 300 PSI

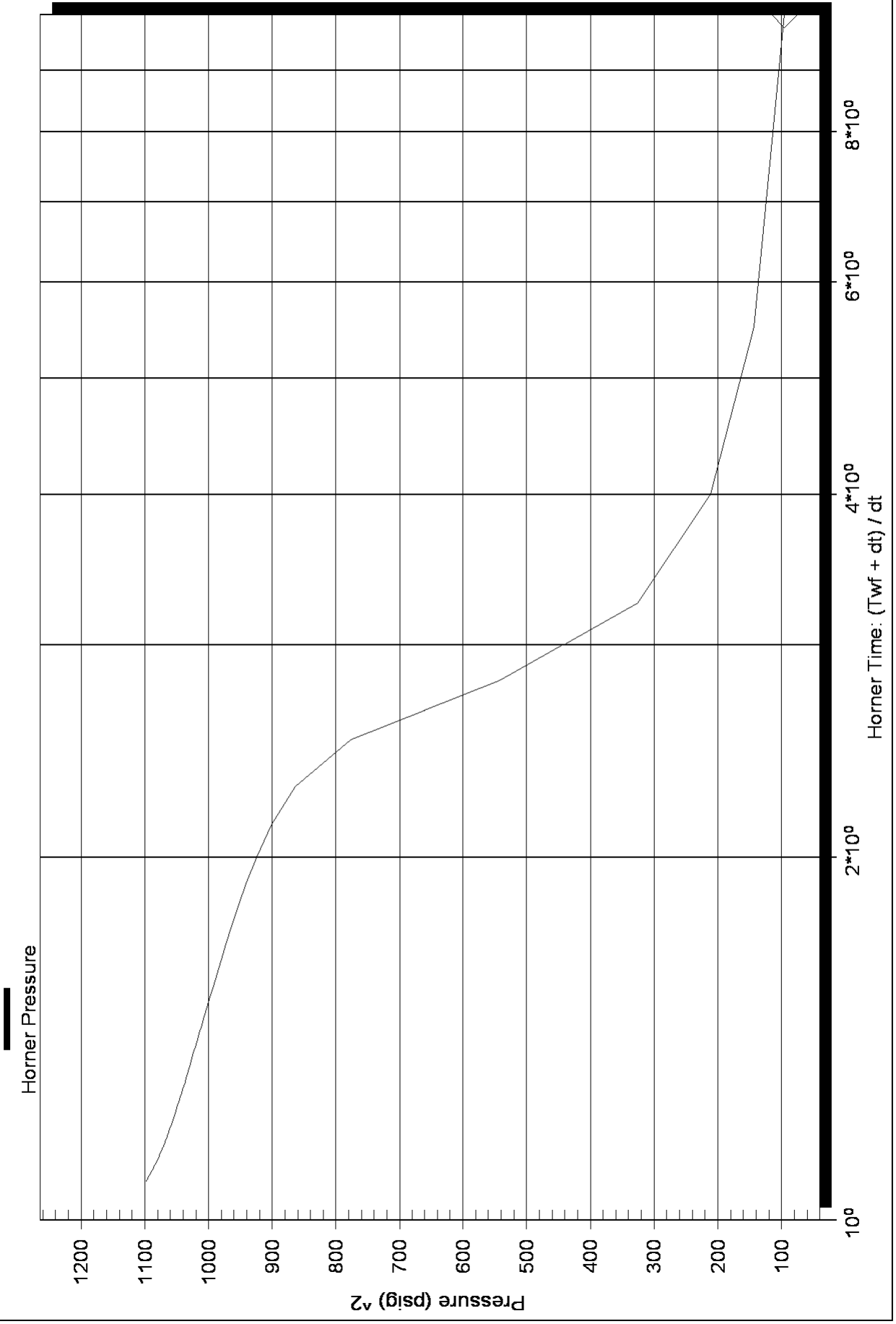
Pressure vs. Time







Homer Plot

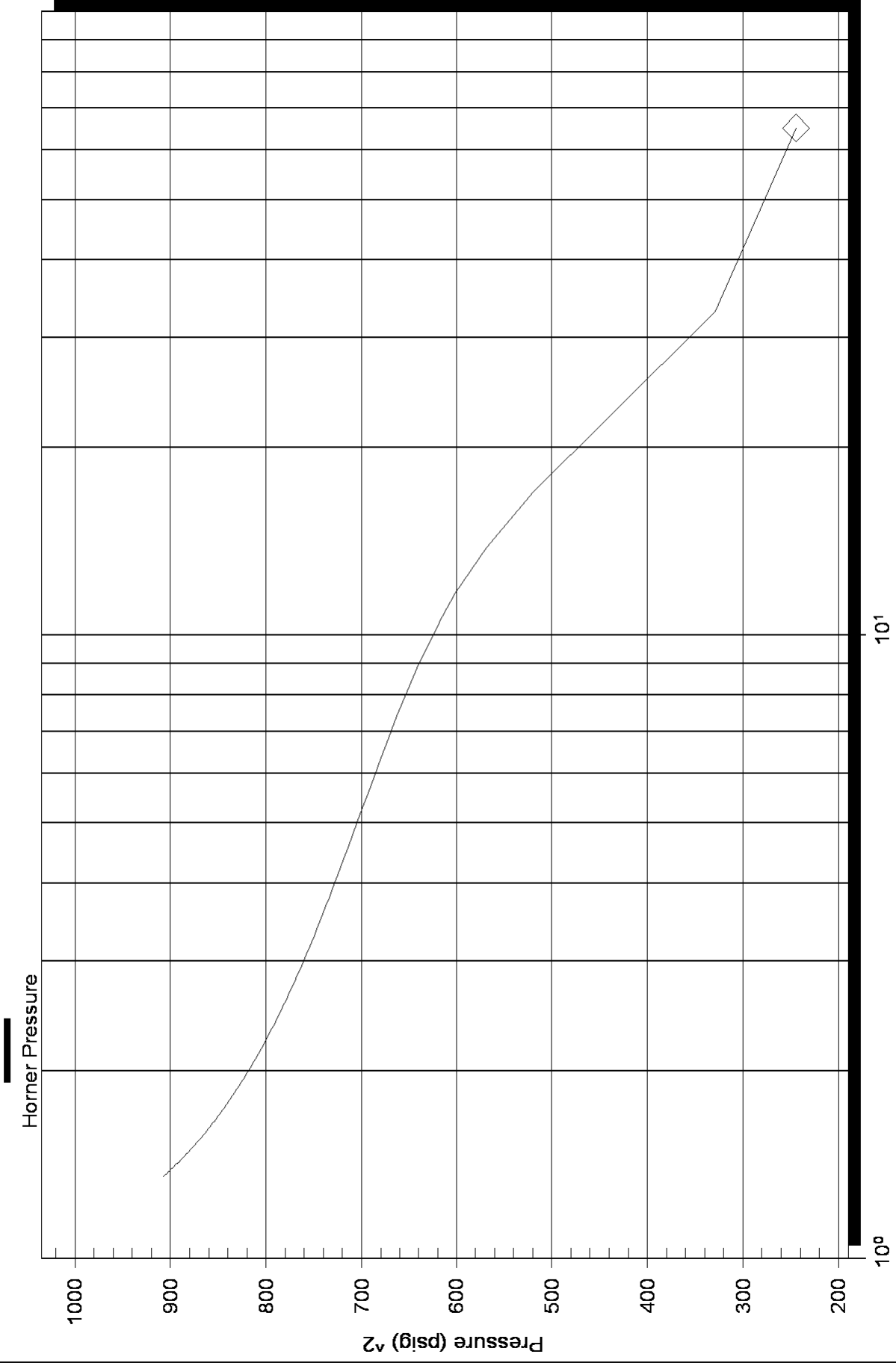


Serial Number: 6719 (Inside)

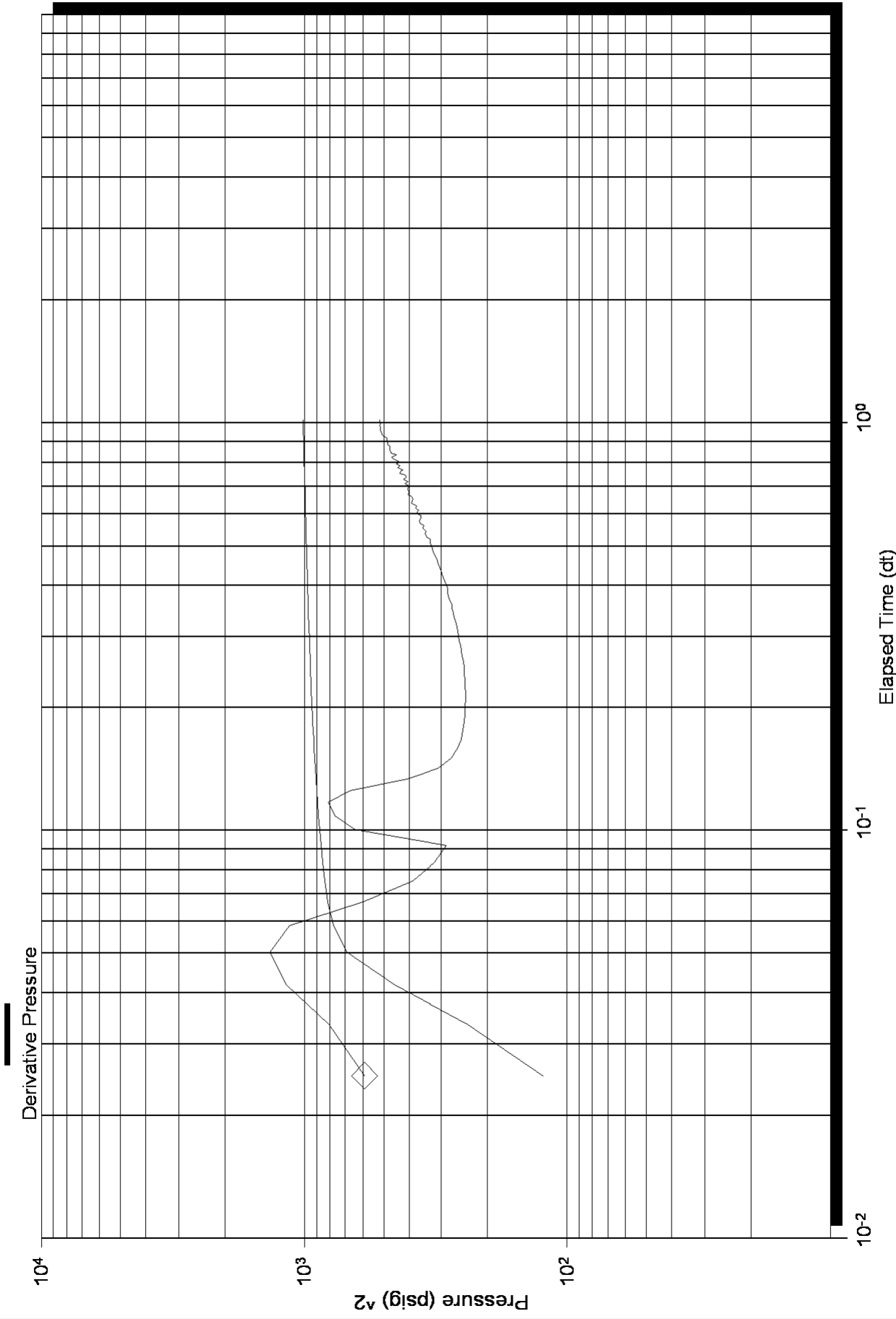
P* : Slope (m) : kpa/log cycle

Flow Cycle: 1

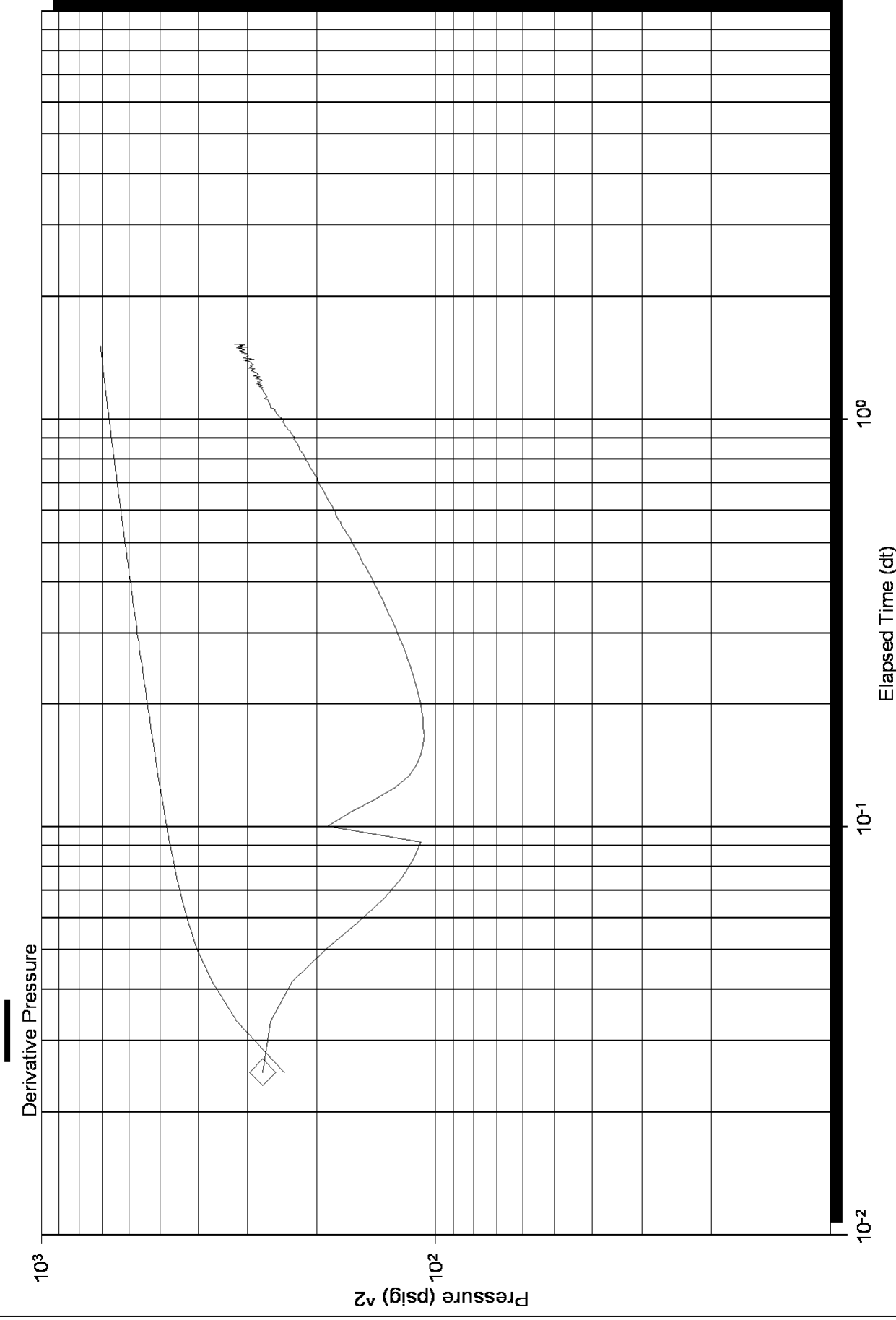
Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Ass. Inc,**

1515 Wynkoop St, Ste 700
Denver CO, 80202

ATTN: Clayton Camozzi

21-15S-16W Ellis, Ks

Scurlock #1-21

Start Date: 2011.03.30 @ 23:45:36

End Date: 2011.03.31 @ 07:06:36

Job Ticket #: 42808 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21

21-15S-16W Ellis, Ks

Job Ticket: 42808

DST#: 4

Test Start: 2011.03.30 @ 23:45:36

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:55:36

Time Test Ended: 07:06:36

Test Type: Conventional Bottom Hole

Tester: Cody/Brett

Unit No: 47

Interval: 3526.00 ft (KB) To 3532.00 ft (KB) (TVD)

Total Depth: 3532.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1870.00 ft (KB)

1862.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6719 Inside

Press @ Run Depth: 19.02 psig @ 3527.00 ft (KB)

Start Date: 2011.03.30

End Date: 2011.03.31

Start Time: 23:45:41

End Time: 07:06:35

Capacity: 8000.00 psig

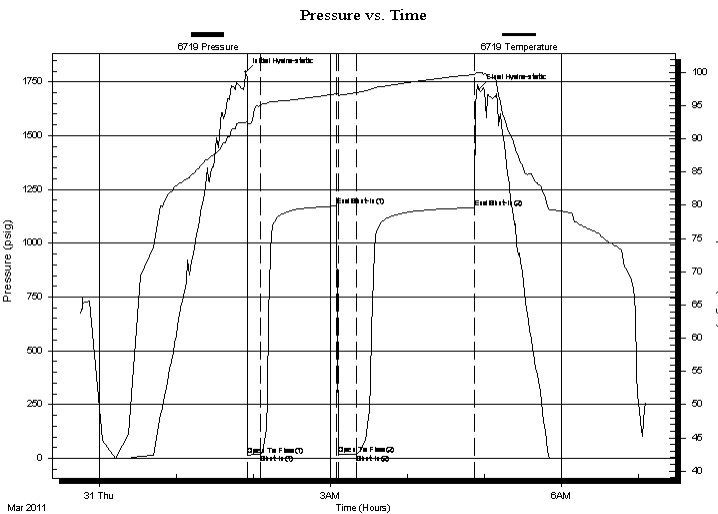
Last Calib.: 2011.03.31

Time On Btm: 2011.03.31 @ 01:54:06

Time Off Btm: 2011.03.31 @ 04:55:36

TEST COMMENT: 10 MIN-IF-Very weak surface blow
60 MIN-ISI-No blow back
15 MIN-FF-Very weak surface blow
90 MIN-FSI-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.05	92.43	Initial Hydro-static
2	14.00	92.24	Open To Flow (1)
12	18.92	95.09	Shut-In(1)
71	1172.30	96.80	End Shut-In(1)
73	18.38	96.57	Open To Flow (2)
86	19.02	96.96	Shut-In(2)
178	1165.15	99.70	End Shut-In(2)
182	1717.62	99.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	FreeOil	0.07
30.00	OCM 35%O 65%M	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W Ellis, Ks
Job Ticket: 42808 **DST#: 4**
Test Start: 2011.03.30 @ 23:45:36

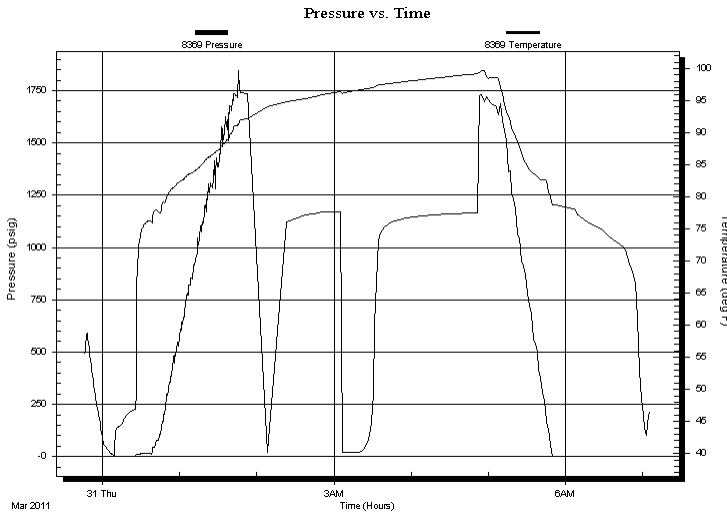
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:55:36
Time Test Ended: 07:06:36
Interval: **3526.00 ft (KB) To 3532.00 ft (KB) (TVD)**
Total Depth: 3532.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Cody/Brett
Unit No: 47
Reference Elevations: 1870.00 ft (KB)
1862.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8369 Outside
Press @ Run Depth: psig @ 3527.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.30 End Date: 2011.03.31 Last Calib.: 2011.03.31
Start Time: 23:45:58 End Time: 07:06:22 Time On Btm:
Time Off Btm:

TEST COMMENT: 10 MIN-IF-Very weak surface blow
60 MIN-ISI-No blow back
15 MIN-FF-Very weak surface blow
90 MIN-FSI-No blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	FreeOil	0.07
30.00	OCM 35%O 65%M	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W Ellis, Ks
Job Ticket: 42808 **DST#: 4**
Test Start: 2011.03.30 @ 23:45:36

Tool Information

Drill Pipe:	Length: 3512.00 ft	Diameter: 3.80 inches	Volume: 49.26 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3526.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	5.00			3497.00	
Recorder	0.00	8319	Fluid	3497.00	
Shut In Tool	5.00			3502.00	
Sampler	3.00			3505.00	
Hydraulic tool	5.00			3510.00	
Jars	5.00			3515.00	
Safety Joint	2.00			3517.00	
Packer	5.00			3522.00	34.00 Bottom Of Top Packer
Packer	4.00			3526.00	
Stubb	1.00			3527.00	
Recorder	0.00	6719	Inside	3527.00	
Recorder	0.00	8369	Outside	3527.00	
Perforations	2.00			3529.00	
Bullnose	3.00			3532.00	6.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W Ellis, Ks
Job Ticket: 42808 **DST#: 4**
Test Start: 2011.03.30 @ 23:45:36

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 24 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.39 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	FreeOil	0.070
30.00	OCM 35%O 65%M	0.421

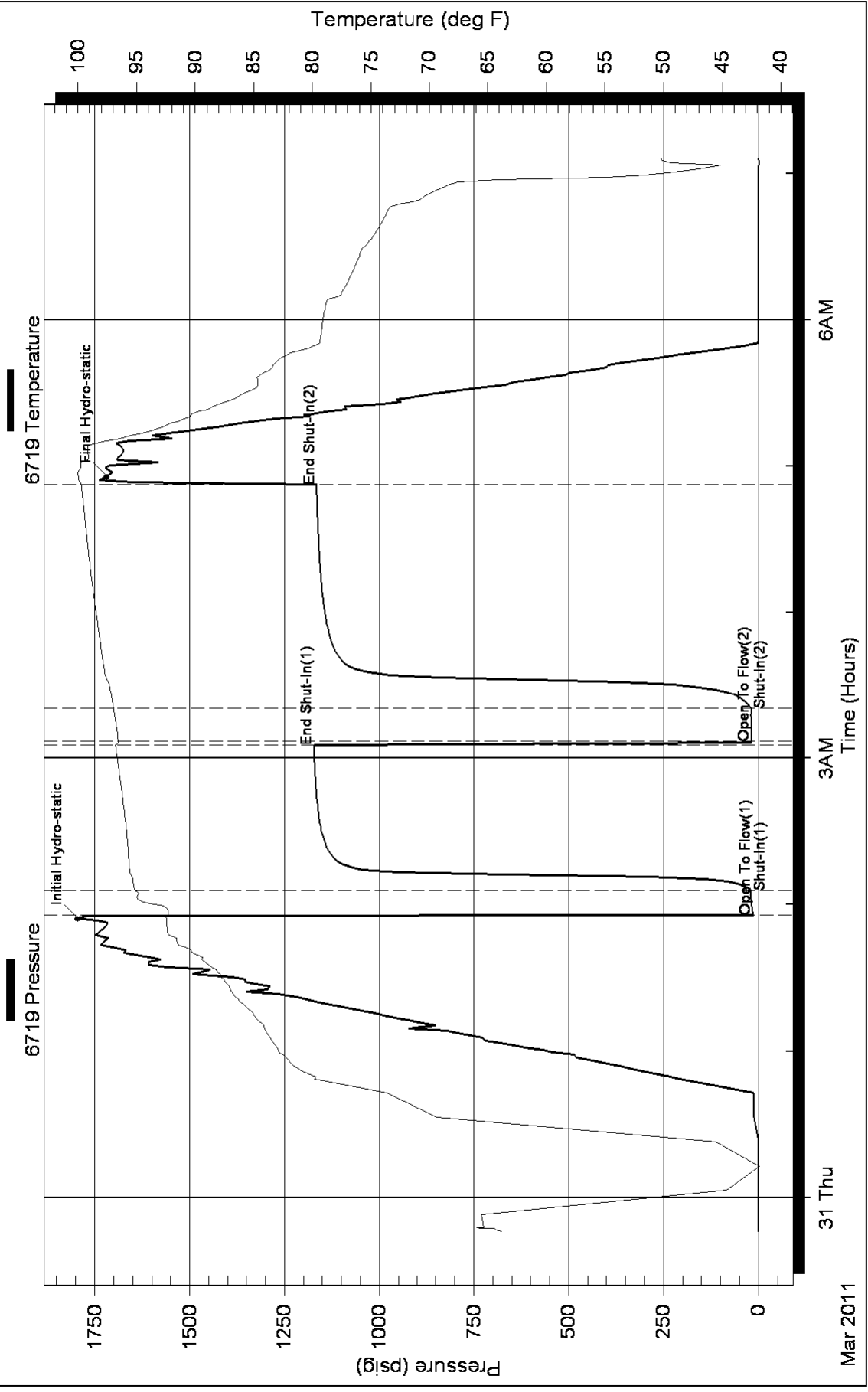
Total Length: 35.00 ft Total Volume: 0.491 bbl

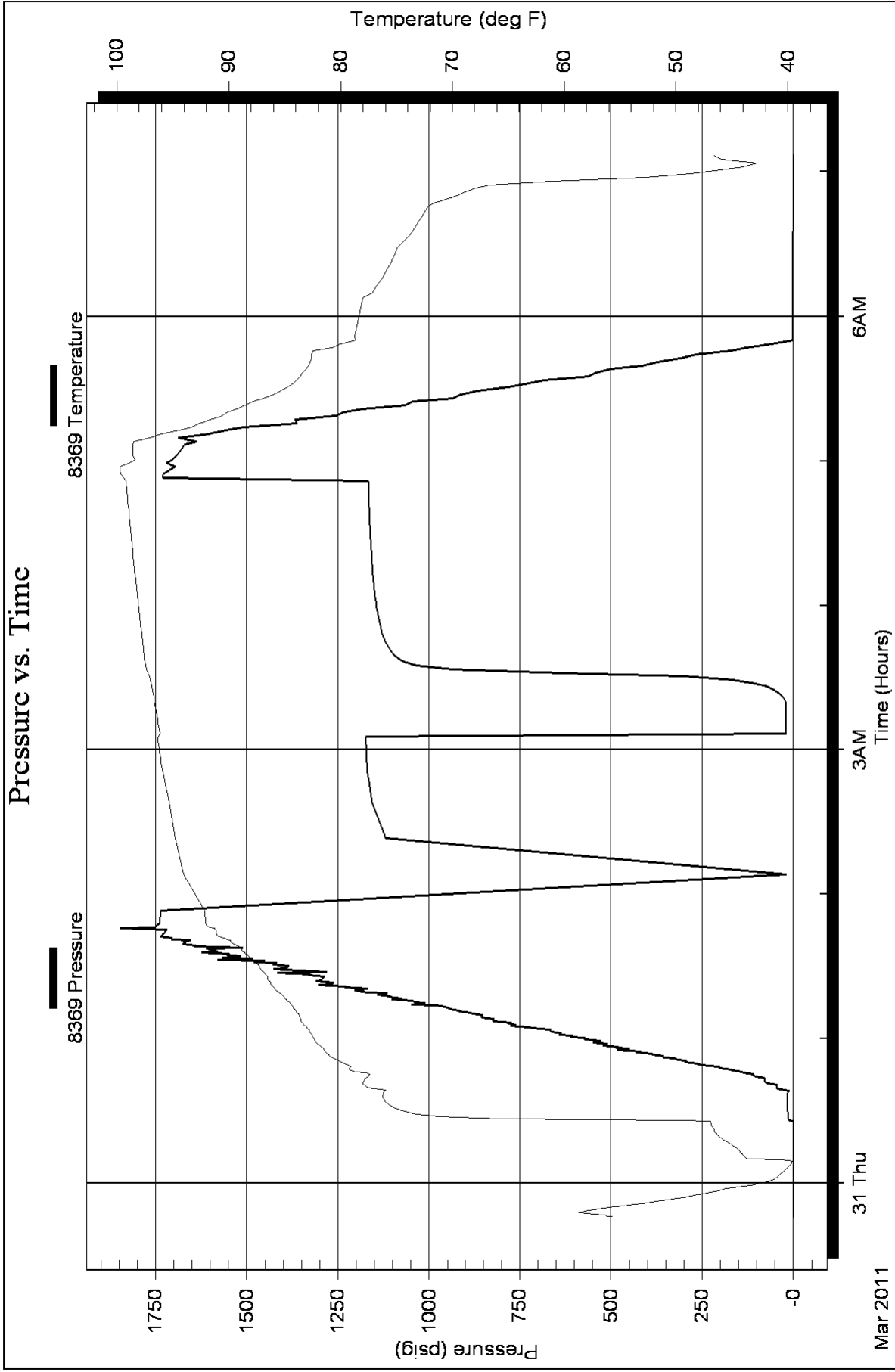
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler Data 1500mlOil 2500mlMud 270psi

Pressure vs. Time





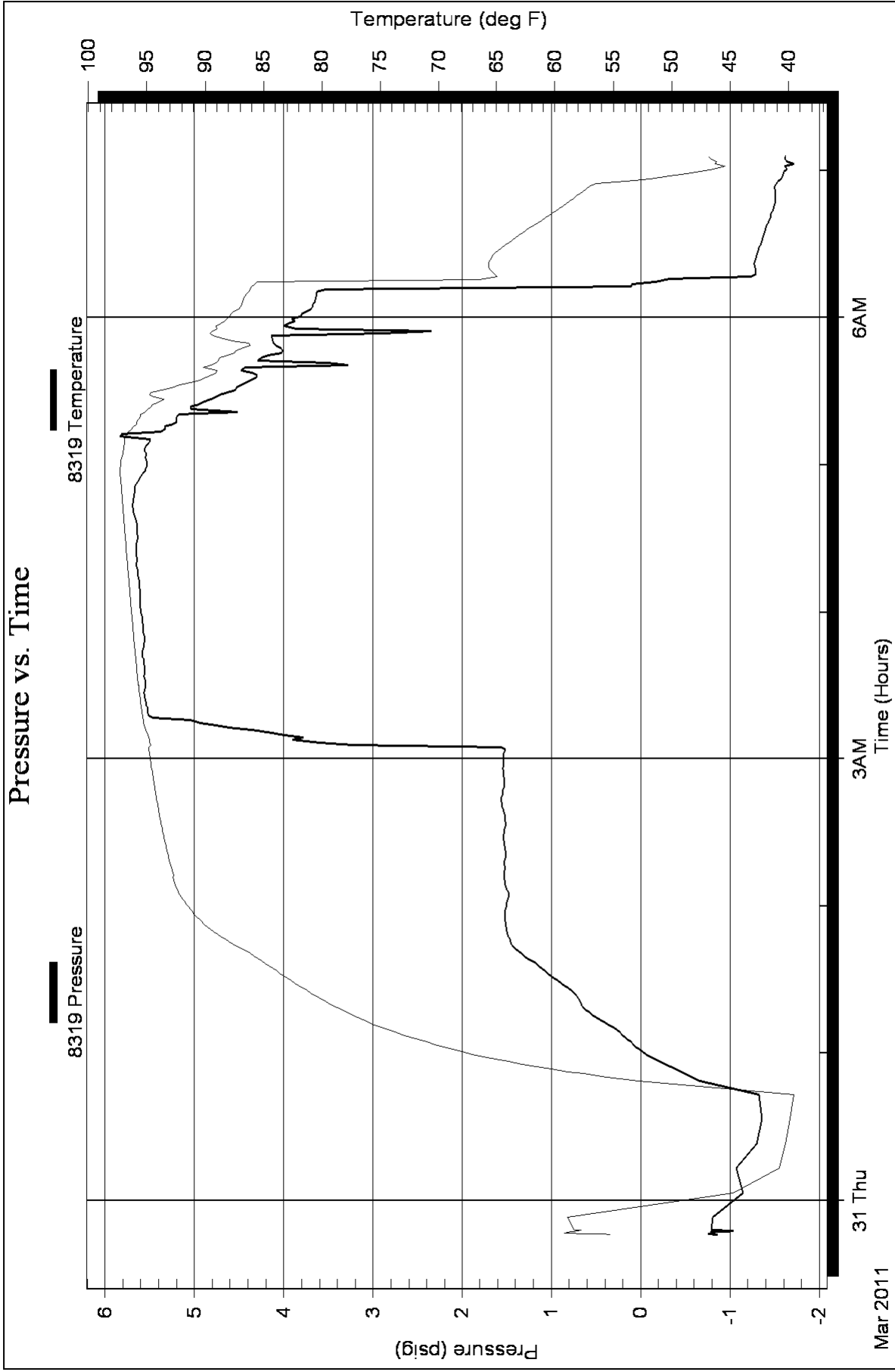
Serial #: 8319

Fluid

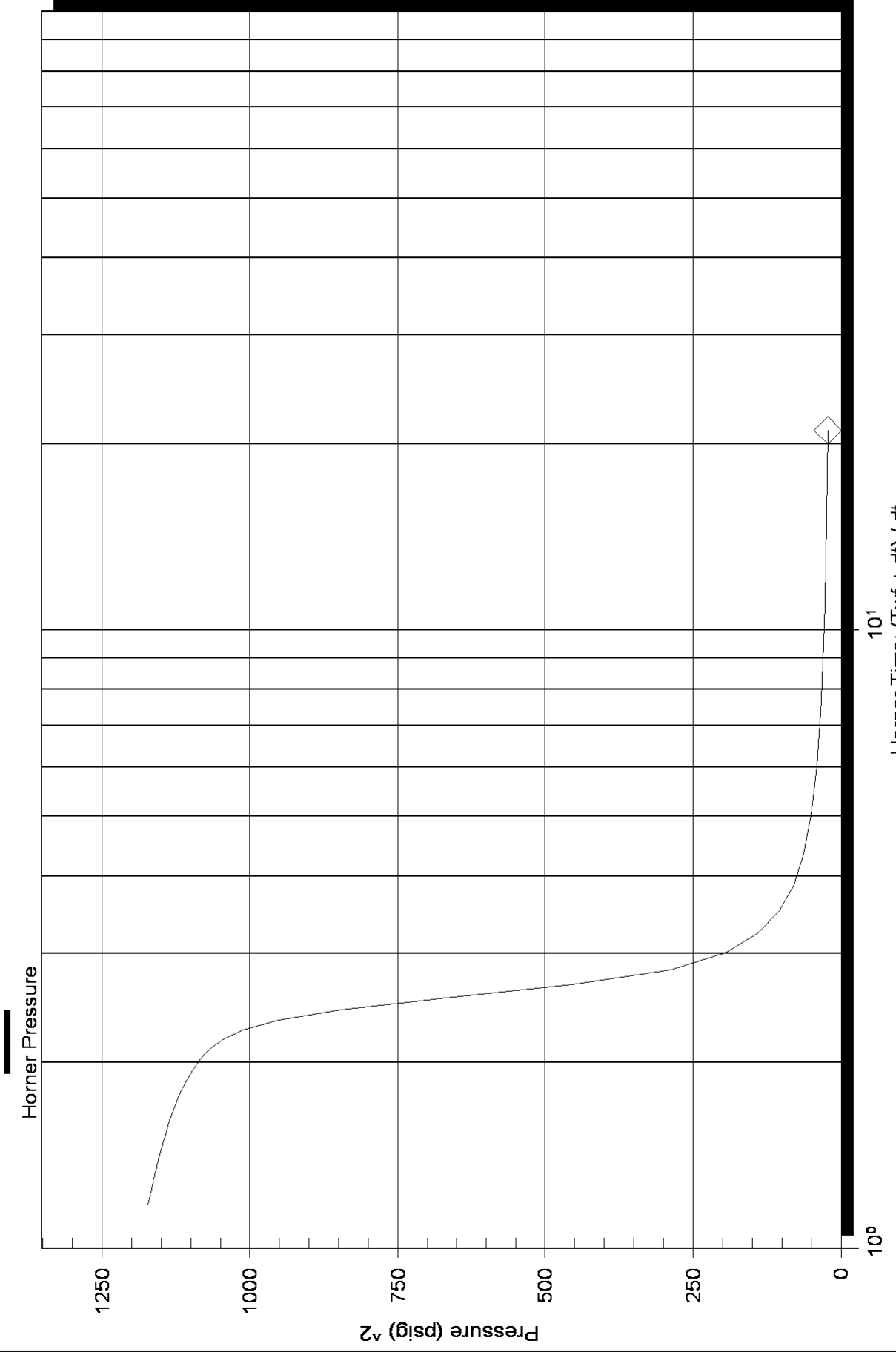
Samuel Gary Jr. & Ass. Inc.

21-15S-16W Ellis, Ks

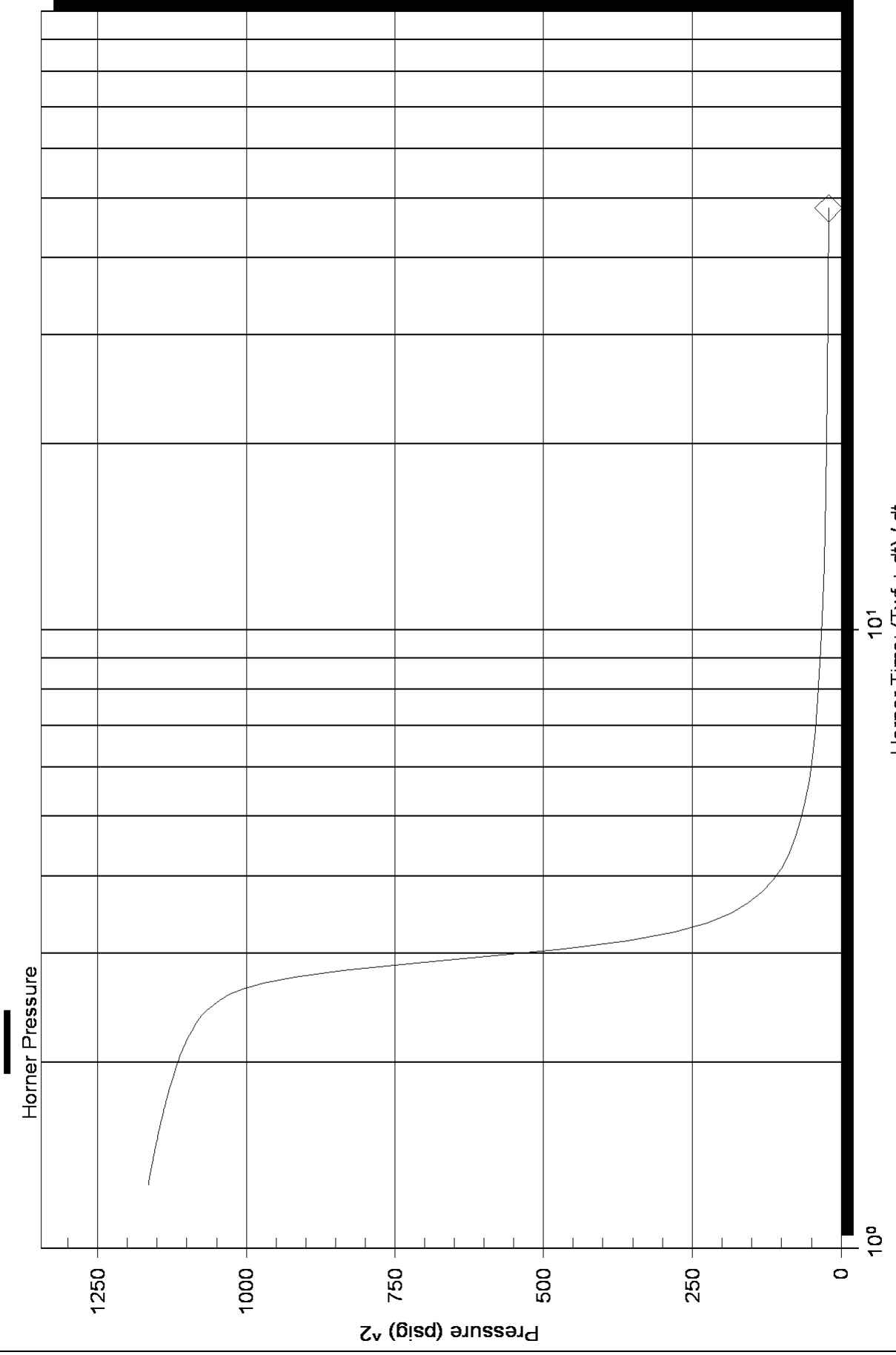
DST Test Number: 4



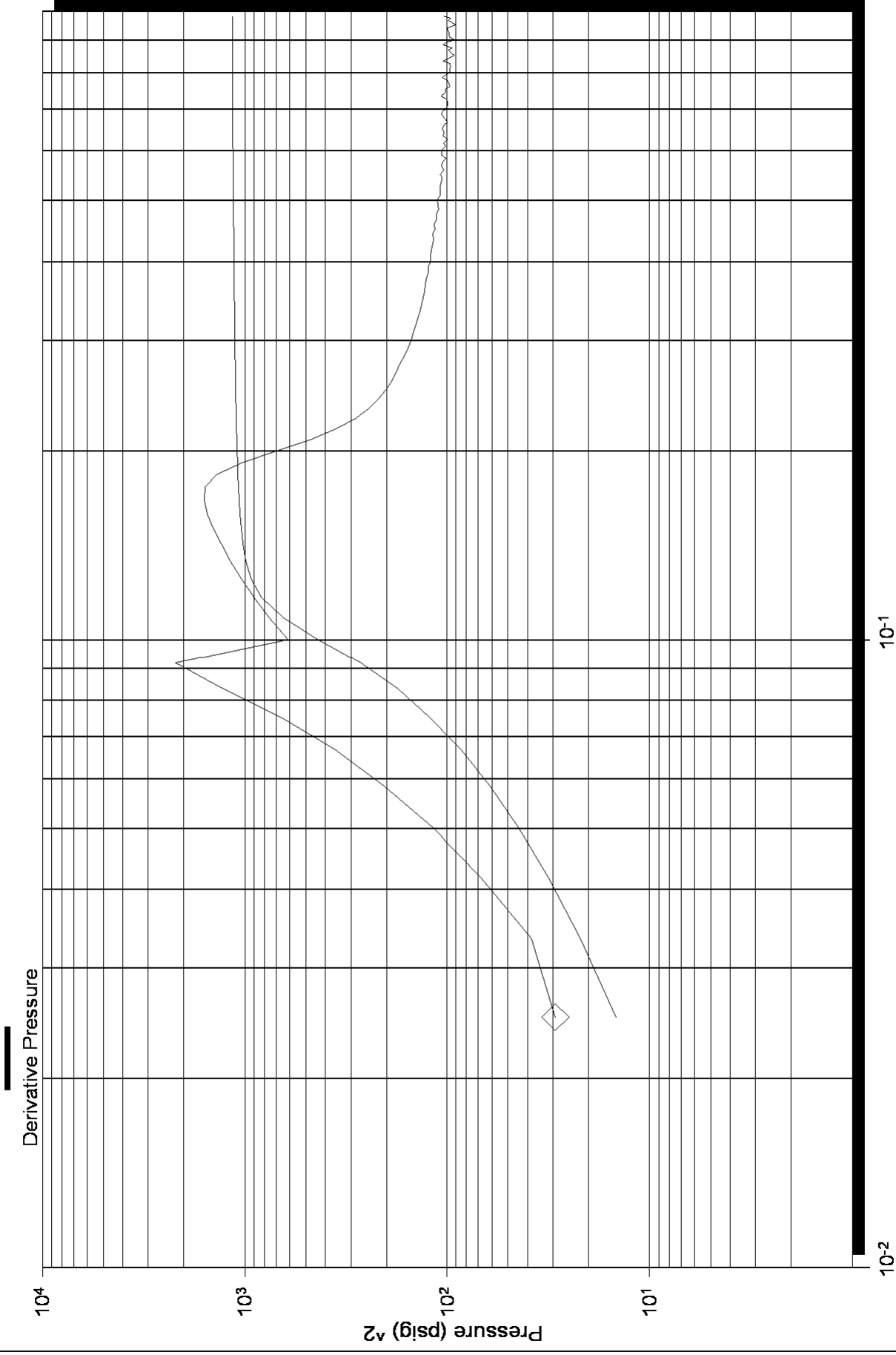
Homer Plot



Homer Plot



Log-Log and Pseudo-Log-Derivative



Log-Log and Pseudo-Derivative

