



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
---	---

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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	CHRISLER ET AL 1-20
Doc ID	1069808

All Electric Logs Run

DIL
MICRO
POR
SONIC

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

December 06, 2011

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

Re: ACO1
API 15-051-26161-00-00
CHRISLER ET AL 1-20
NE/4 Sec.20-12S-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: 8/13/2011
 Invoice # 5131

P.O.#:
 Due Date: 9/12/2011
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	CHRISLER ET AL 1-20
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Reference:
 CHRISLER ET AL 1-20

Description of Work:
 SURFACE JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 977.42	No				
Common-Class A	160	\$ 2,089.46	Yes				
Bulk Truck Matl-Material Service Charge	168	\$ 359.66	No				
Pump Truck Mileage-Job to Nearest Camp	23	\$ 245.70	No				
Calcium Chloride	5	\$ 201.56	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	23	\$ 143.78	No				
Premium Gel (Bentonite)	3	\$ 52.28	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	4,069.87
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(610.48)
<hr/>			
	SubTotal for Taxable Items:	\$	1,991.81
	SubTotal for Non-Taxable Items:	\$	1,467.58
<hr/>			
	Total:	\$	3,459.39
	Tax:	\$	125.48
<hr/>			
	Amount Due:	\$	3,584.88
	Applied Payments:		
	Balance Due:	\$	3,584.88

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

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

No. 5131

Date	8-9-11	Sec.	20	Twp.	12	Range	16	County	Ellis	State	Ks	On Location		Finish	3:15 PM
Lease	Chris ET AL			Well No.	1-20			Location	Walker, Ks - N to D.E., 1E0, 3N, W/S						
Contractor	Discovery #4							Owner	1 1/2 W & S to well						
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4"			T.D.	264'			Charge To	Sam Gary						
Csg.	8 5/8"			Depth	264'			Street							
Tbg. Size				Depth				City	State						
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	15'			Shoe Joint	15'			Cement Amount Ordered	160 Sx Common 3%CL						
Meas Line				Displace	15 3/4 BLS										

EQUIPMENT

Pumptrk	1	No.	Cementer	Cisco	276 Gal
			Helper		Common 160
Bulktrk	14	No.	Driver	Matt	Poz. Mix
			Driver		Gel. 3
Bulktrk	p.u.	No.	Driver	Rick	Calcium 5
			Driver		

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.				
Rat Hole	Salt				
Mouse Hole	Flowseal				
Centralizers	Kol-Seal				
Baskets	Mud CLR 48				
D/V or Port Collar	CFL-117 or CD110 CAF 38				
	Sand				
	Handling 163				
	Mileage				

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	23

Tax	
Discount	
Total Charge	

X Signature *Michael W. Losh*



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: 8/22/2011
 Invoice # 5075

P.O.#:
 Due Date: 9/21/2011
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

DRLG COMP W/O LOE GG

Account	8300-238
Well/Prospect	CHRISLER ET AL 1-20
Deck	
AFE	
Approval	
Description	

Reference:
 CHRISLER ET AL 1-20

Description of Work:
 PROD LONG STRING

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 950.65	No	Auto Fill Float Shoe, 5 1/2"	1	\$318.58	Yes
Common-Class A	225	\$ 2,857.81	Yes	Salt (Fine)	19	\$276.14	Yes
Cement Port Collar, 5 1/2"	1	\$ 2,602.74	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$233.21	Yes
Gilsonite	1057	\$ 1,650.66	Yes	Pump Truck Mileage-Job to Nearest Camp	23	\$238.97	No
5 1/2" Basket	4	\$ 957.81	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	23	\$139.84	No
CFL 117	117	\$ 750.34	Yes	Flo Seal	56	\$116.60	Yes
CD-110	176	\$ 732.93	Yes	KCL	2	\$62.17	Yes
5 1/2" Turbolizer	9	\$ 543.45	Yes				
Bulk Truck Matl-Material Service Charge	254	\$ 528.88	No				
Mud Clear	500	\$ 385.21	Yes				
Defoamer A or CAF-38	50	\$ 364.38	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 13,710.36
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (2,056.55)

SubTotal for Taxable Items:	\$ 10,074.22
SubTotal for Non-Taxable Items:	\$ 1,579.59

6.30% Ellis County Sales Tax

Total: \$ 11,653.80
 Tax: \$ 634.68
Amount Due: \$ 12,288.48
 Applied Payments:
Balance Due: \$ 12,288.48

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

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

No. 5075

Date	8-16-11	Sec.	20	Twp.	12	Range	16	County	Ellis	State	Kansas	On Location		Finish	8:15p.
Lease	Christie Et Al	Well No.	1-20		Location		Walker 6W 1W 3N 15W&S								
Contractor	Discovery Drilling Rig 4				Owner		To Quality Oilwell Cementing, Inc.								
Type Job	Production String				Charge To		Samuel Gary Sr. & Associates								
Hole Size	7 7/8	T.D.	36005		Street										
Csg.	5 1/2 15.5DB	Depth	3578		City		State								
Tbg. Size		Depth	1125		The above was done to satisfaction and supervision of owner agent or contractor.										
Tool Port Collar #63		Shoe Joint	22		Cement Amount Ordered		225 Q-Pro-C 100# Salt								
Cement Left in Csg.	22	Displace	84 3/4 Bbl		Sagilite 1/2 Fl. 3% CD 110		S&CFL-117								
Meas Line					25% CAF-38		500 Gal Mud Chem 18								

EQUIPMENT

Pumptrk	5	No.	Cementer	Steve
			Helper	
Bulktrk	8	No.	Driver	Clay
			Driver	
Bulktrk		No.	Driver	King
			Driver	

20 Bbl RCL
Gel.

JOB SERVICES & REMARKS

Remarks:
Rat Hole 30" x
Mouse Hole 2 1/2" x
Centralizers 1 3 5 7 9 11 13 15 64
Baskets 3 9 15 63
D/V or Port Collar #63 1125'
30" x Rat Hole
15" x Mouse Hole

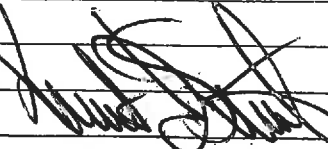
Calcium CD 110 117#
Hulls KRL 20 BBL
Salt 19
Flowseal 56#
Kol-Seal 1057 #
Mud CLR 48 500 gal
CFL-117 or CD110 CAF 38 50 #
Sand CFH-117 176#
Handling 254
Mileage

Land plug @ 1500 psi

Float 1 field

FLOAT EQUIPMENT

Guide Shoe
Centralizer 8 Turbas
Baskets 4
AFU inserts Port Collar
Float Shoe 1
Latch Down 1
Rotating Head

Thank you


Pumptrk Charge prod long string
Mileage 23

Tax
Discount
Total Charge

X Signature



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. Associates, Inc**

1515 Wynkoop Ste 700
Denver CO 80202

ATTN: Clayton Camozzi

20-12-16, Ellis, Ks

Chrisler ET AL 1-20

Start Date: 2011.08.12 @ 12:55:55

End Date: 2011.08.12 @ 17:16:25

Job Ticket #: 44286 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. Associates, Inc

Chrisler ET AL 1-20

1515 Wynkoop Ste 700
Denver CO 80202

20-12-16, Ellis, Ks

Job Ticket: 44286

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2011.08.12 @ 12:55:55

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:33:25

Time Test Ended: 17:16:25

Test Type: Conventional Straddle

Tester: Brett Dickinson

Unit No: 47

Interval: 2920.00 ft (KB) To 2954.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3019.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: psig @ 2921.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.12 End Date: 2011.08.12

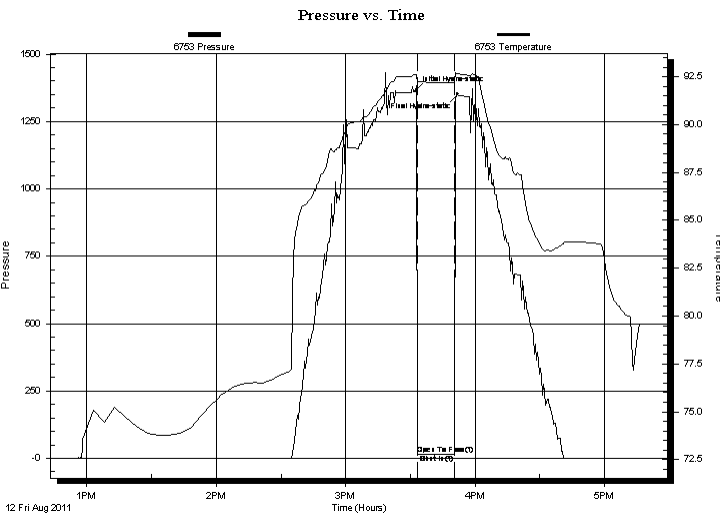
Last Calib.: 2011.08.12

Start Time: 12:56:00 End Time: 17:16:24

Time On Btm: 2011.08.12 @ 15:32:25

Time Off Btm: 2011.08.12 @ 15:51:55

TEST COMMENT: Did not get to bottom
25ft off bottom



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1364.56	92.60	Initial Hydro-static
1	13.87	92.22	Open To Flow (1)
18	13.73	92.18	Shut-In(1)
20	1350.19	92.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. Associates, Inc

Chrisler ET AL 1-20

1515 Wynkoop Ste 700
Denver CO 80202

20-12-16, Ellis, Ks

Job Ticket: 44286

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2011.08.12 @ 12:55:55

Tool Information

Drill Pipe:	Length: 2857.00 ft	Diameter: 3.80 inches	Volume: 40.08 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2920.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	2954.00 ft			
Interval between Packers:	34.00 ft			
Tool Length:	138.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			2886.00	
Drill Pipe	5.00			2891.00	
Recorder	0.00	8650	Fluid	2891.00	
Shut In Tool	5.00			2896.00	
Sampler	3.00			2899.00	
Hydraulic tool	5.00			2904.00	
Jars	5.00			2909.00	
Safety Joint	2.00			2911.00	
Packer	4.00			2915.00	35.00 Bottom Of Top Packer
Packer	5.00			2920.00	
Stubb	1.00			2921.00	
Recorder	0.00	8319	Inside	2921.00	
Recorder	0.00	6753	Outside	2921.00	
Perforations	29.00			2950.00	
Blank Off Sub	4.00			2954.00	34.00 Tool Interval
Packer	4.00			2958.00	
Stubb	1.00			2959.00	
Recorder	0.00	8369	Below	2959.00	
Perforations	1.00			2960.00	
Change Over Sub	1.00			2961.00	
Blank Spacing	62.00			3023.00	69.00 Bottom Packers & Anchor
Total Tool Length:	138.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. Associates, Inc

Chrisler ET AL 1-20

1515 Wynkoop Ste 700
Denver CO 80202

20-12-16, Ellis, Ks

Job Ticket: 44286

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2011.08.12 @ 12:55:55

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

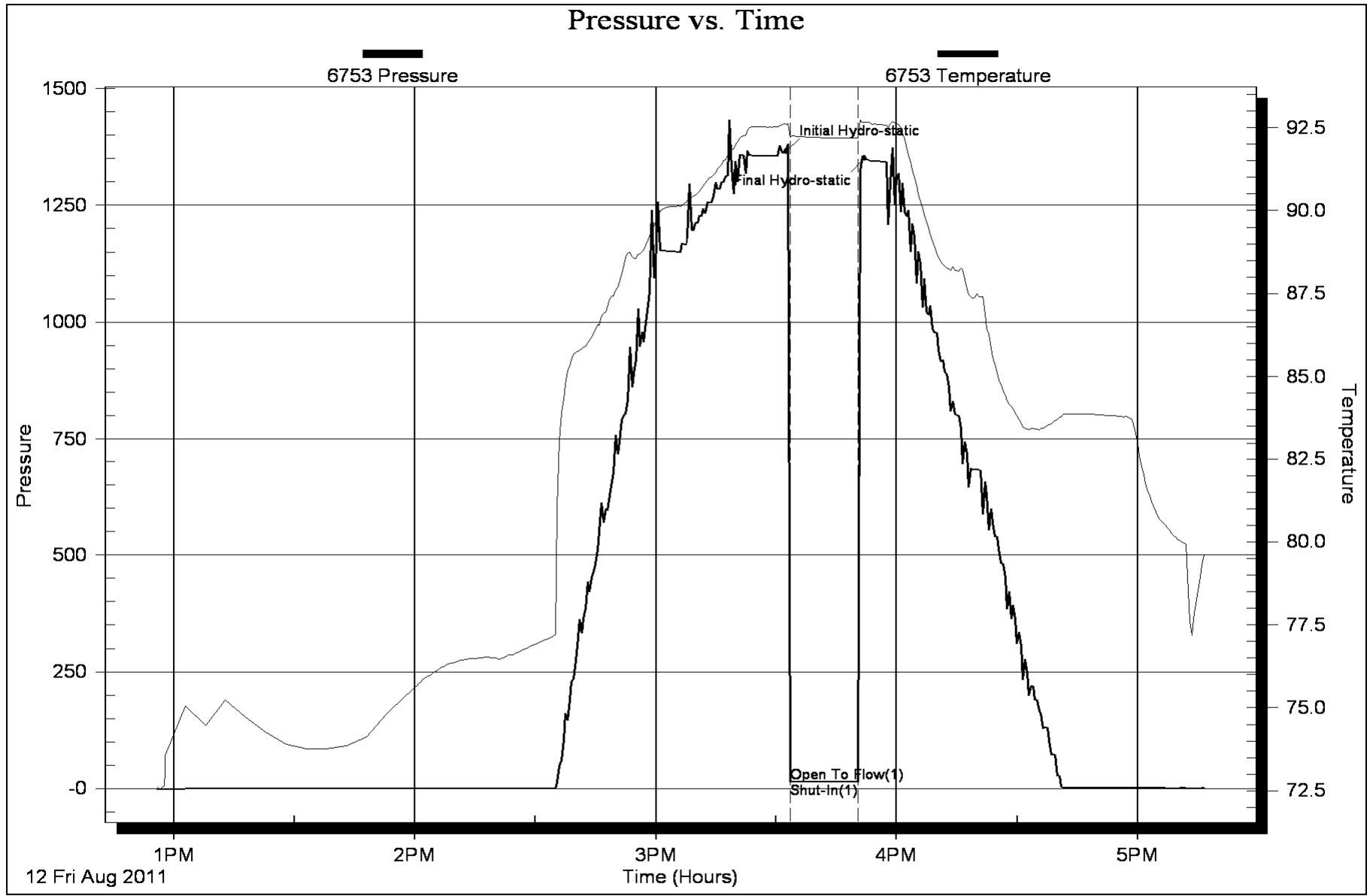
Num Gas Bombs: 0

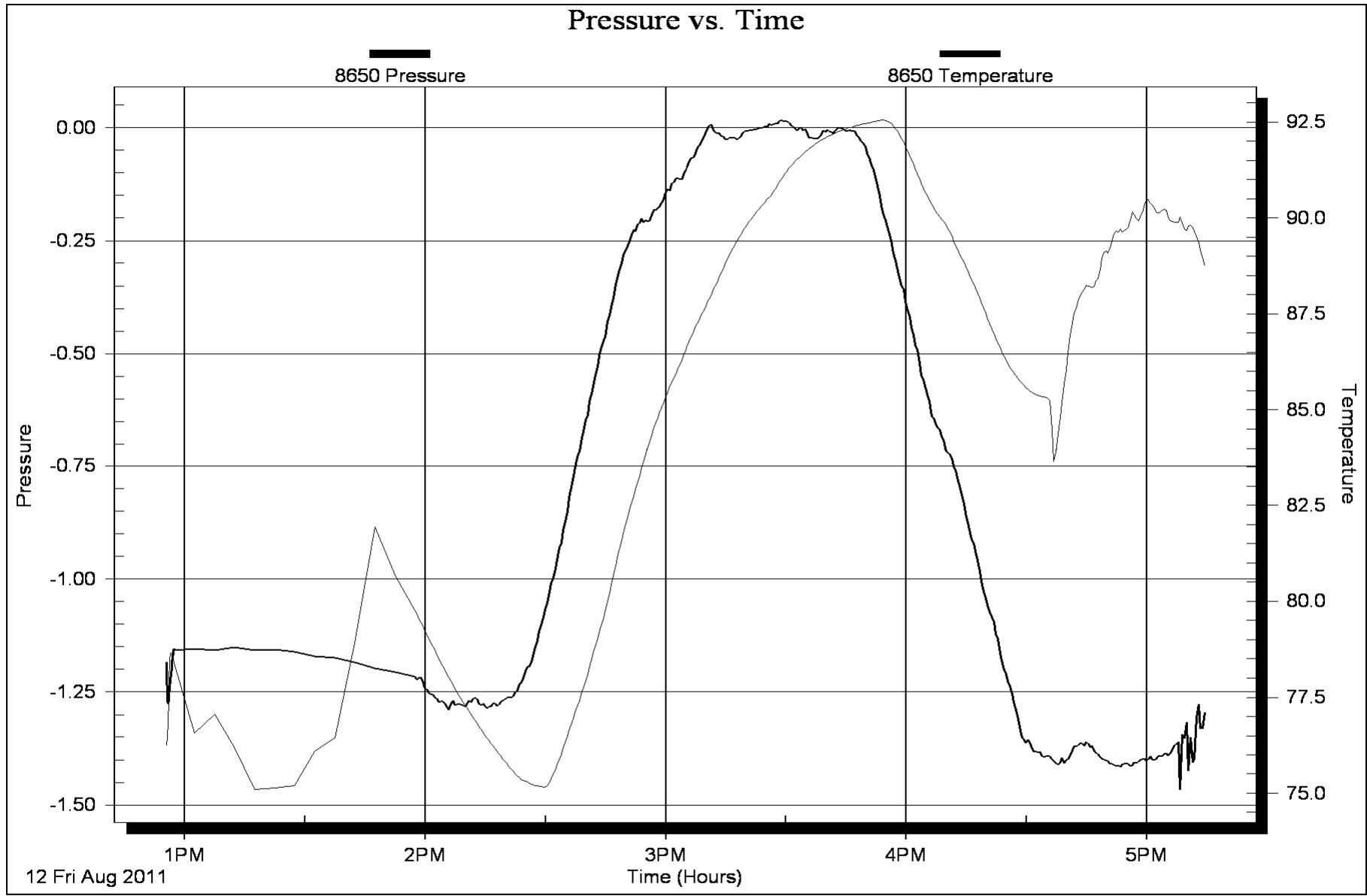
Serial #:

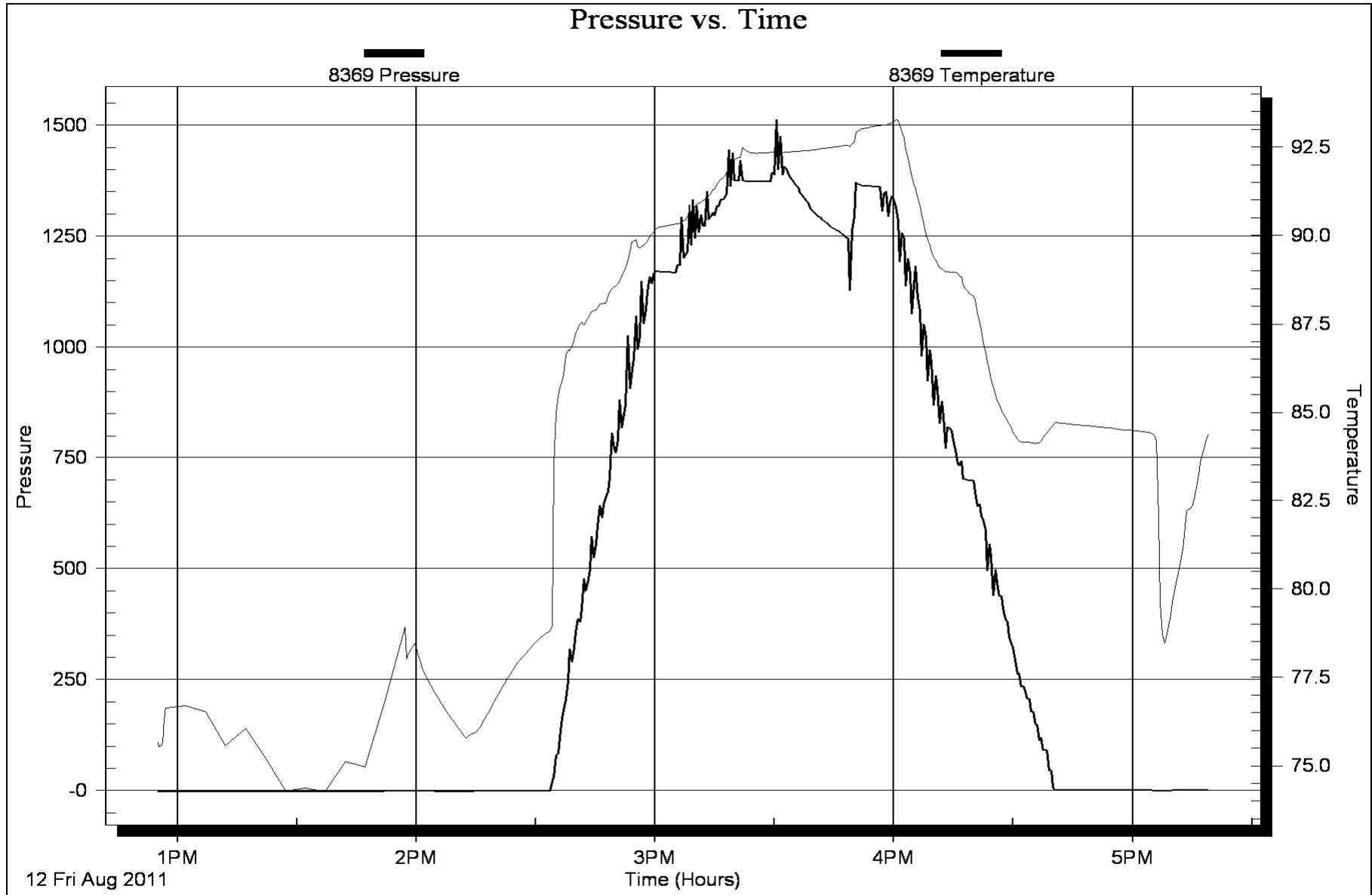
Laboratory Name:

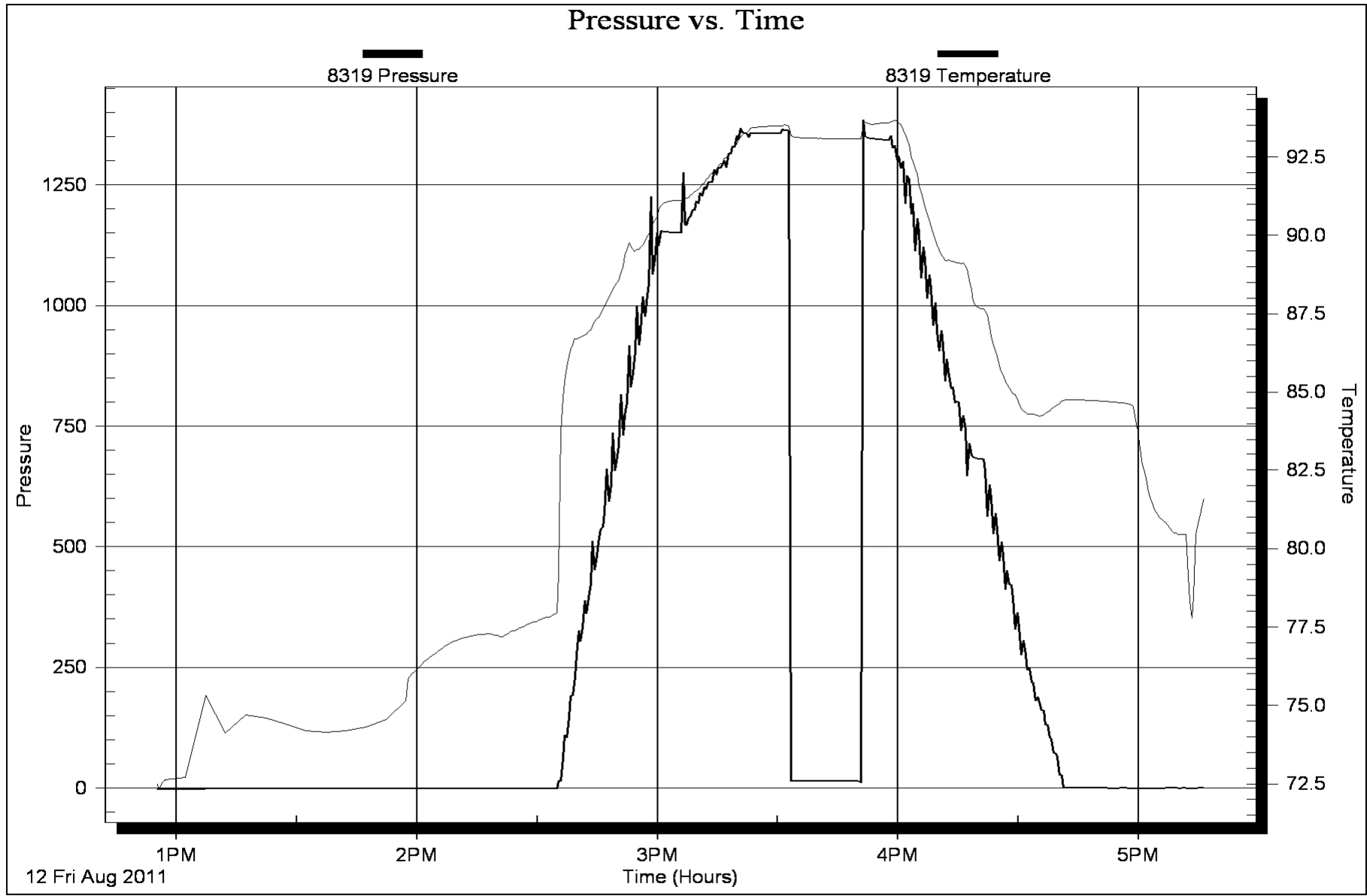
Laboratory Location:

Recovery Comments:











DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. Associates, Inc**

1515 Wynkoop Ste 700
Denver CO 80202

ATTN: Clayton Camozzi

20-12-16, Ellis, Ks

Chrisler ET AL 1-20

Start Date: 2011.08.13 @ 10:10:05

End Date: 2011.08.13 @ 17:20:35

Job Ticket #: 44287 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. Associates, Inc

Chrisler ET AL 1-20

1515 Wynkoop Ste 700
Denver CO 80202

20-12-16, Ellis, Ks

ATTN: Clayton Camozzi

Job Ticket: 44287

DST#: 2

Test Start: 2011.08.13 @ 10:10:05

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:22:35

Time Test Ended: 17:20:35

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3155.00 ft (KB) To 3220.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753 Inside

Press @ Run Depth: 133.53 psig @ 3160.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.13

End Date:

2011.08.13

Last Calib.:

2011.08.13

Start Time: 10:10:10

End Time:

17:20:34

Time On Btm:

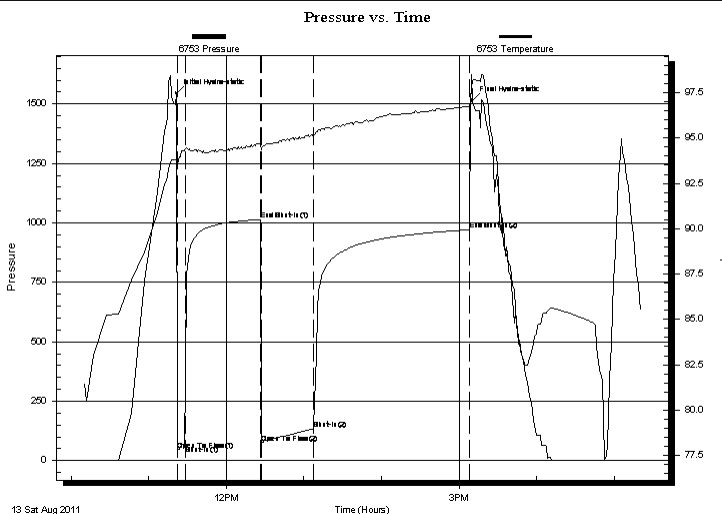
2011.08.13 @ 11:21:35

Time Off Btm:

2011.08.13 @ 15:10:05

TEST COMMENT: 5min IF-3/34in blow
60min ISI-No blow
40min FF-BOB in 35min
120min FSI-Weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1544.08	93.85	Initial Hydro-static
1	41.92	93.58	Open To Flow (1)
7	65.34	94.29	Shut-In (1)
65	1014.29	94.63	End Shut-In (1)
66	75.23	94.33	Open To Flow (2)
106	133.53	95.22	Shut-In (2)
227	970.77	96.76	End Shut-In (2)
229	1513.88	98.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SGOMCW 5%G 5%O 60%W 30%M	1.41
60.00	GV SOMCW 10%G 2%O 68%W 20%M	0.84
30.00	GV SOWCM 10%G 2%O 28%W 60%M	0.42
0.00	60ft 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. Associates, Inc

Chrisler ET AL 1-20

1515 Wynkoop Ste 700
Denver CO 80202

20-12-16, Ellis, Ks

Job Ticket: 44287

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.08.13 @ 10:10:05

Tool Information

Drill Pipe:	Length: 3104.00 ft	Diameter: 3.80 inches	Volume: 43.54 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3155.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	101.00 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			3120.00	
Drill Pipe	5.00			3125.00	
Recorder	0.00	8369	Fluid	3125.00	
Shut In Tool	5.00			3130.00	
Sampler	3.00			3133.00	
Hydraulic tool	5.00			3138.00	
Jars	5.00			3143.00	
Safety Joint	2.00			3145.00	
Packer	5.00			3150.00	36.00 Bottom Of Top Packer
Packer	5.00			3155.00	
Stubb	1.00			3156.00	
Perforations	4.00			3160.00	
Recorder	0.00	6753	Inside	3160.00	
Recorder	0.00	8319	Outside	3160.00	
Change Over Sub	1.00			3161.00	
Drill Pipe	31.00			3192.00	
Change Over Sub	1.00			3193.00	
Perforations	24.00			3217.00	
Bullnose	3.00			3220.00	65.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. Associates, Inc

Chrisler ET AL 1-20

1515 Wynkoop Ste 700
Denver CO 80202

20-12-16, Ellis, Ks

Job Ticket: 44287

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.08.13 @ 10:10:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

72000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	SGOMCW 5%G 5%O 60%W 30%M	1.410
60.00	GV SOMCW 10%G 2%O 68%W 20%M	0.842
30.00	GV SOWCM 10%G 2%O 28%W 60%M	0.421
0.00	60ft GIP	0.000

Total Length: 210.00 ft Total Volume: 2.673 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

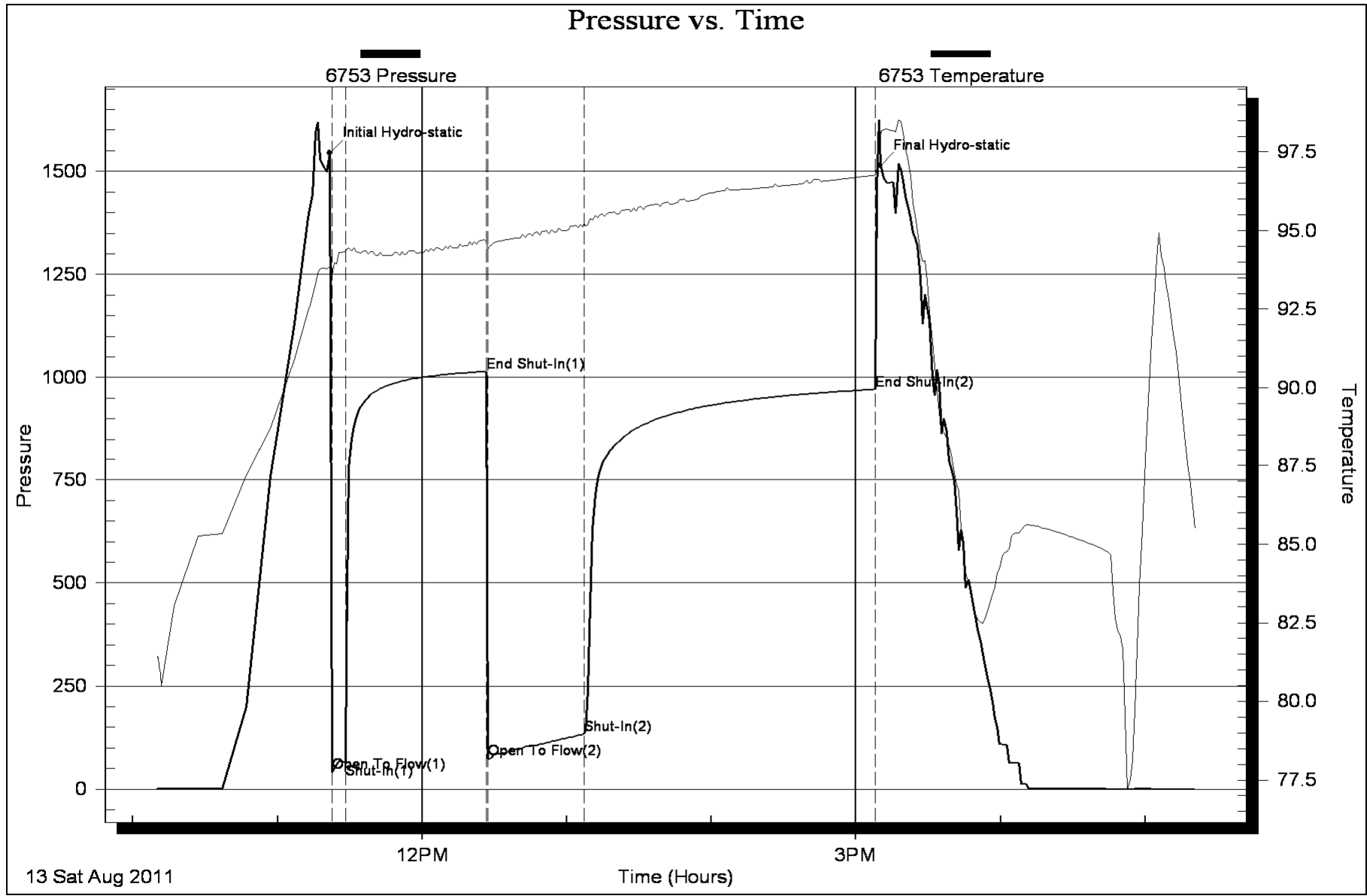
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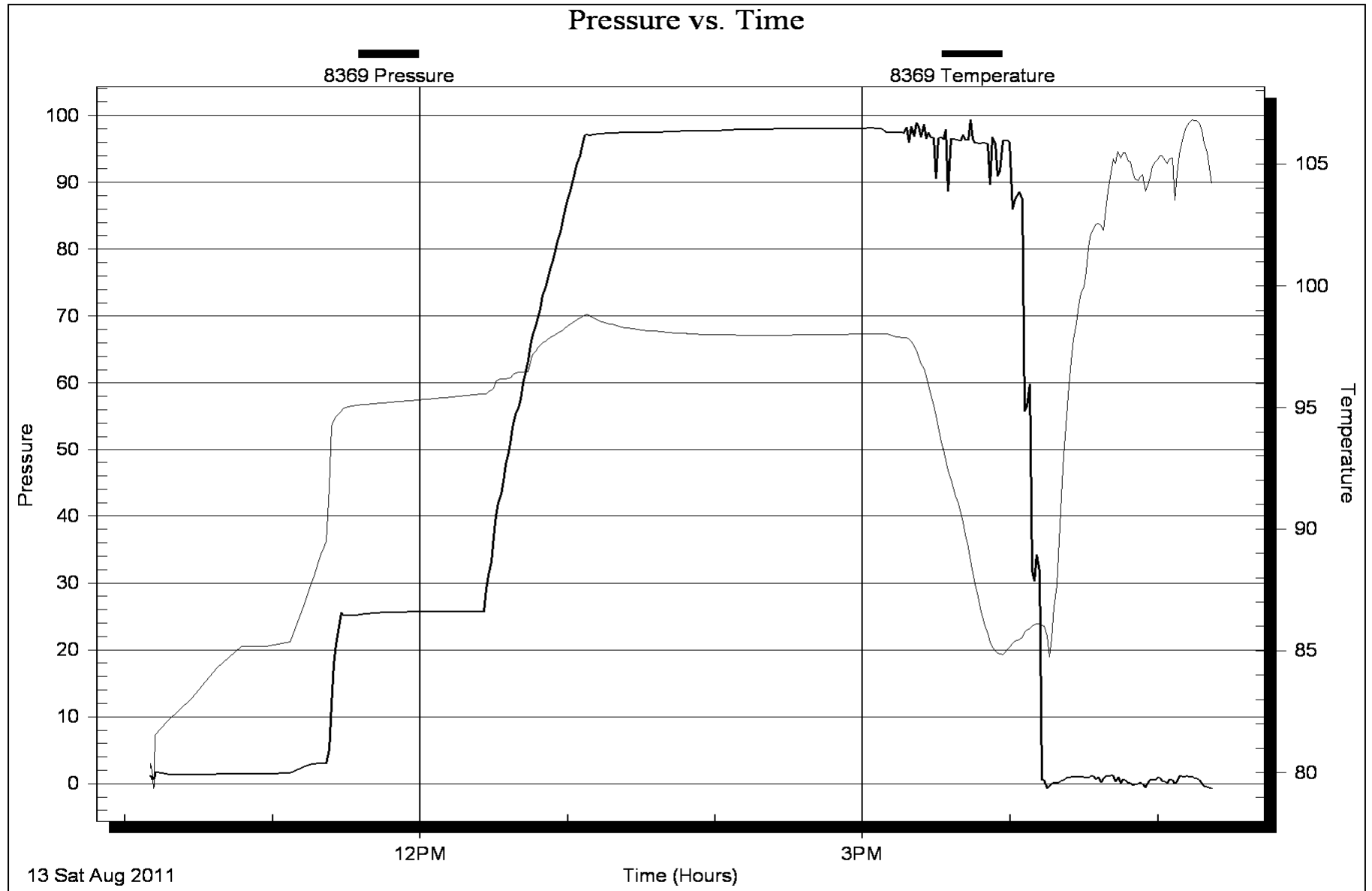
Laboratory Name:

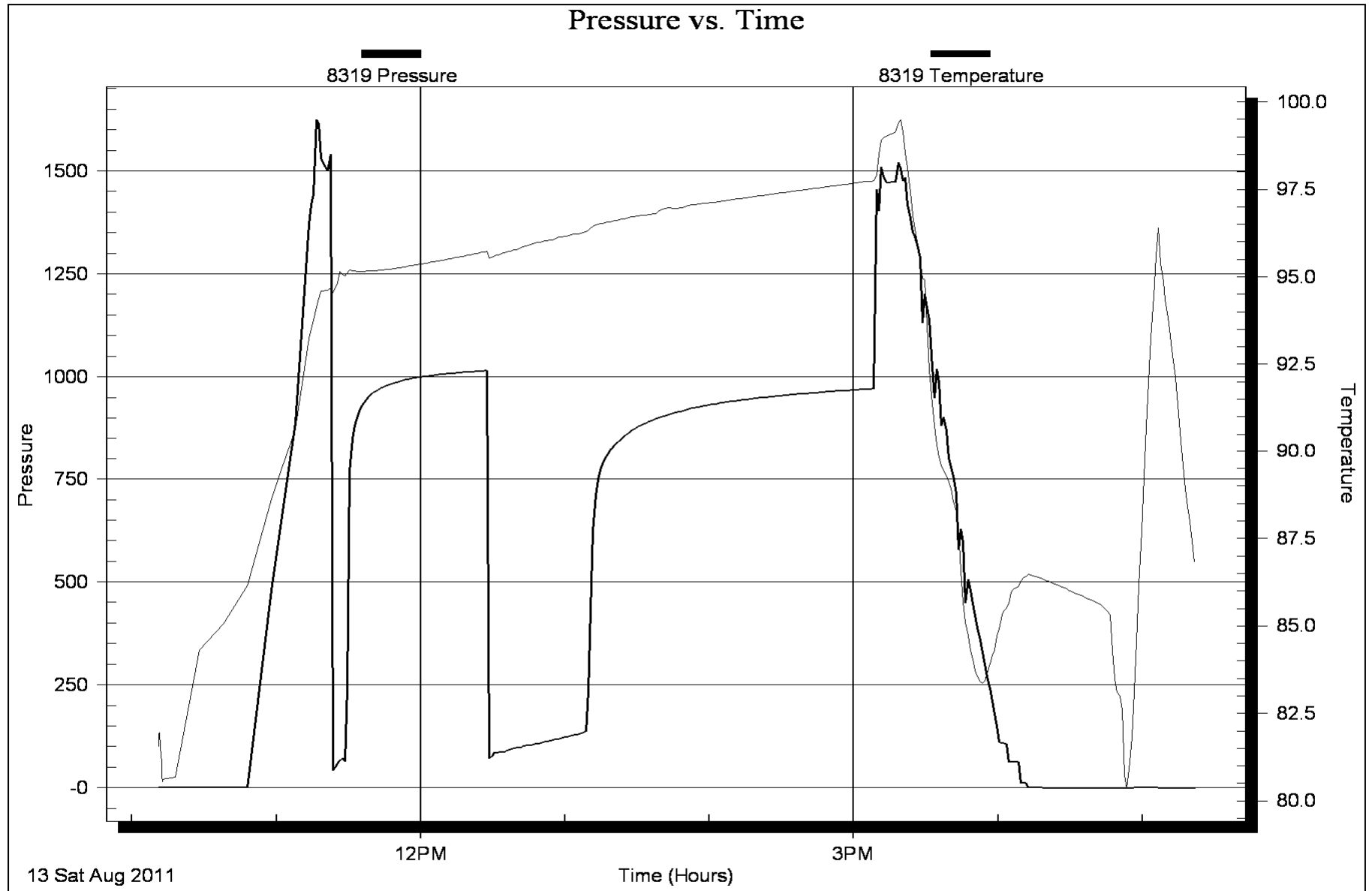
Laboratory Location:

Recovery Comments: RW .08@95

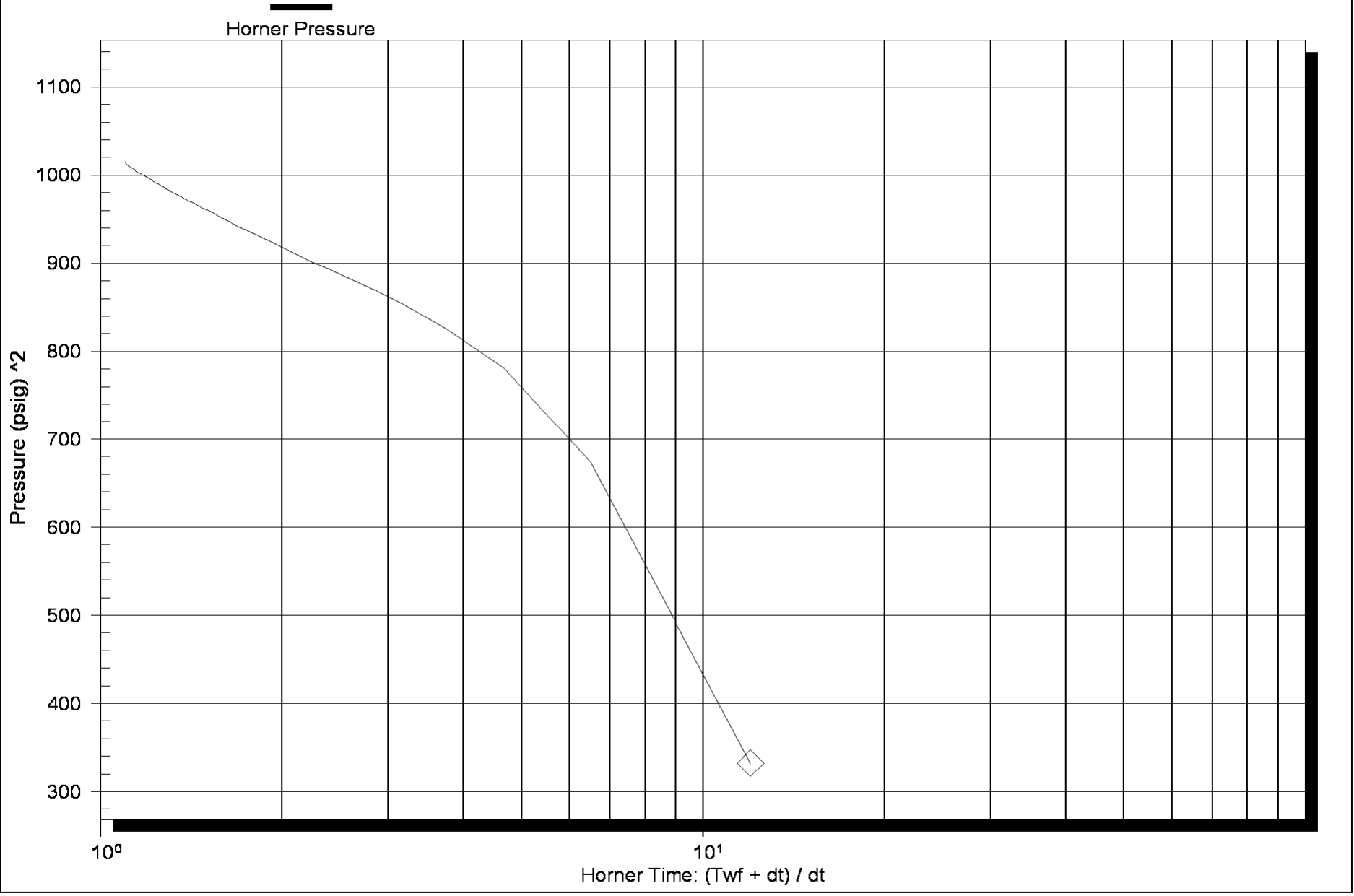
Sampler Data 1500G 250O 2250W 425Psi



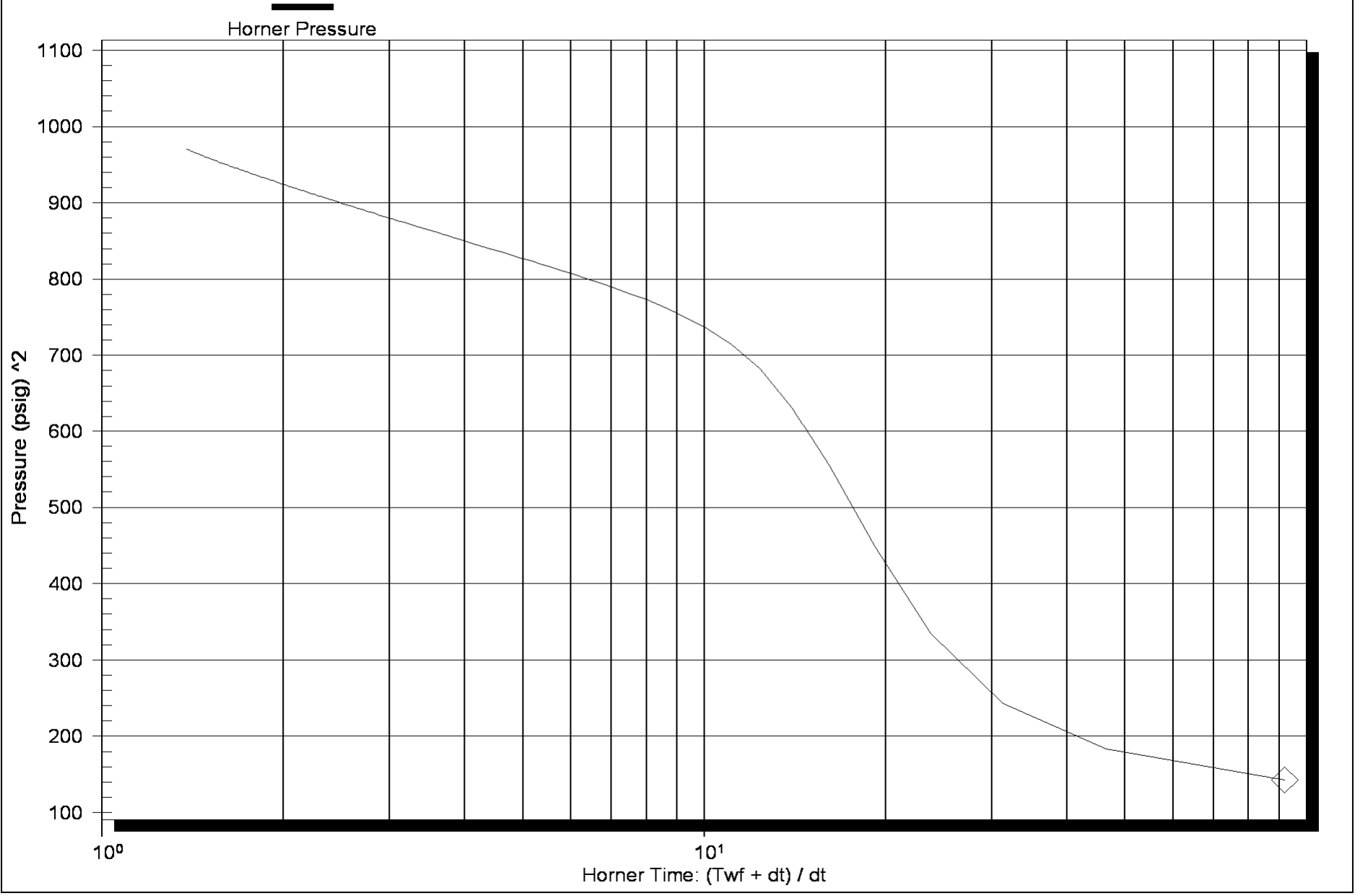




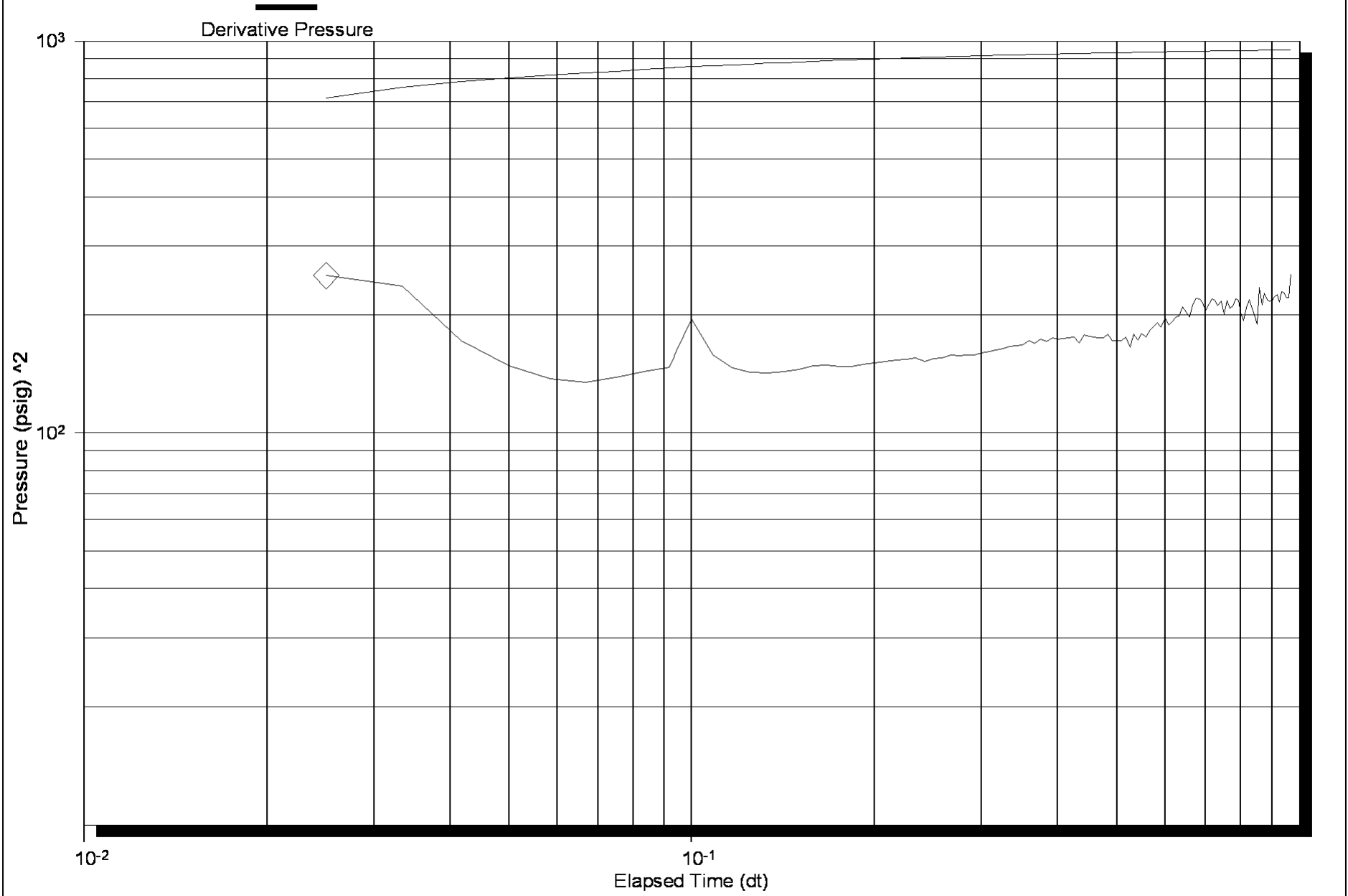
Horner Plot



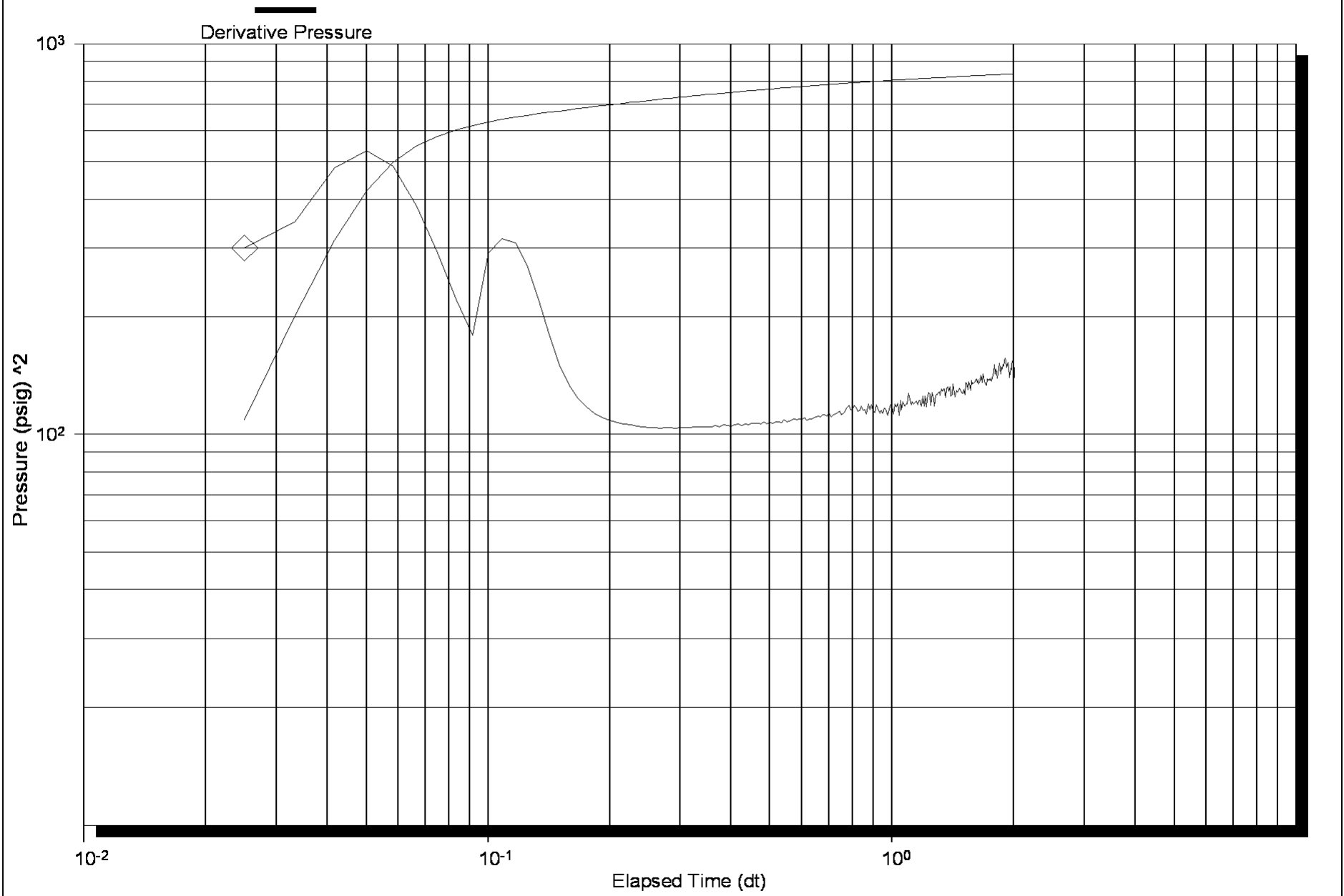
Horner Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. Associates, Inc**

1515 Wynkoop Ste 700
Denver CO 80202

ATTN: Clayton Camozzi

20-12-16, Ellis, Ks

Chrisler ET AL 1-20

Start Date: 2011.08.14 @ 01:28:30

End Date: 2011.08.14 @ 09:25:30

Job Ticket #: 44288 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. Associates, Inc

Chrisler ET AL 1-20

1515 Wynkoop Ste 700
Denver CO 80202

20-12-16, Ellis, Ks

Job Ticket: 44288

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2011.08.14 @ 01:28:30

GENERAL INFORMATION:

Formation: **LKC "C"**

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

Time Tool Opened: 03:29:00

Time Test Ended: 09:25:30

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3216.00 ft (KB) To 3270.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 62.85 psig @ 3221.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.14

End Date:

2011.08.14

Last Calib.:

2011.08.14

Start Time:

01:28:35

End Time:

09:25:29

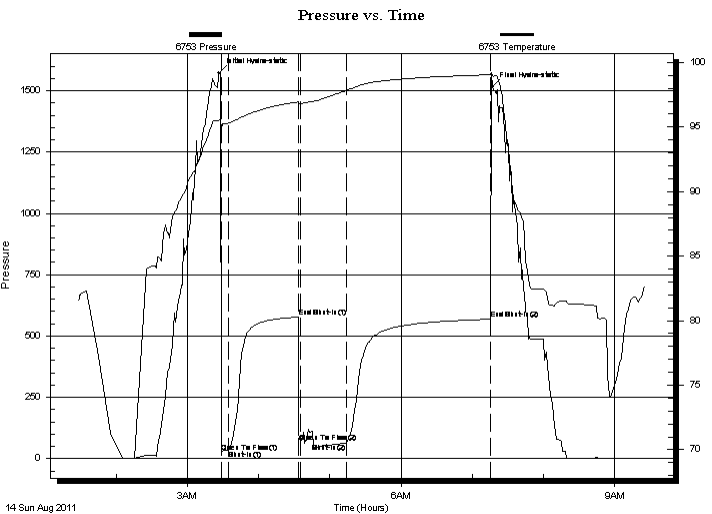
Time On Btm:

2011.08.14 @ 03:27:00

Time Off Btm:

2011.08.14 @ 07:17:00

TEST COMMENT: 5min IF- 41/2in blow
60min ISI-No blow
40min FF-BOB in 5min
120min FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1573.69	95.59	Initial Hydro-static
2	25.72	94.87	Open To Flow (1)
8	33.27	95.31	Shut-In(1)
67	577.43	96.96	End Shut-In(1)
68	67.52	96.80	Open To Flow (2)
107	62.85	97.84	Shut-In(2)
228	567.99	99.07	End Shut-In(2)
230	1517.08	98.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	VGSWMCO 50%G 5%W 5%M 40%O	0.99
30.00	GMCO 10%G 30%M 60%O	0.42
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. Associates, Inc

Chrisler ET AL 1-20

1515 Wynkoop Ste 700
Denver CO 80202

20-12-16, Ellis, Ks

Job Ticket: 44288

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2011.08.14 @ 01:28:30

Tool Information

Drill Pipe:	Length: 3165.00 ft	Diameter: 3.80 inches	Volume: 44.40 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3216.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	53.00 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			3182.00	
Drill Pipe	5.00			3187.00	
Recorder	0.00	8369	Fluid	3187.00	
Shut In Tool	5.00			3192.00	
Sampler	3.00			3195.00	
Hydraulic tool	5.00			3200.00	
Jars	5.00			3205.00	
Safety Joint	2.00			3207.00	
Packer	4.00			3211.00	35.00 Bottom Of Top Packer
Packer	5.00			3216.00	
Stubb	1.00			3217.00	
Perforations	4.00			3221.00	
Recorder	0.00	8319	Inside	3221.00	
Recorder	0.00	6753	Outside	3221.00	
Change Over Sub	1.00			3222.00	
Drill Pipe	31.00			3253.00	
Change Over Sub	1.00			3254.00	
Perforations	12.00			3266.00	
Bullnose	3.00			3269.00	53.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. Associates, Inc

Chrisler ET AL 1-20

1515 Wynkoop Ste 700
Denver CO 80202

20-12-16, Ellis, Ks

Job Ticket: 44288

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2011.08.14 @ 01:28:30

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 6.38 in³
Resistivity: ohm.m
Salinity: 2900.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 39 deg API
Water Salinity: 76000 ppm

Recovery Information

Recovery Table

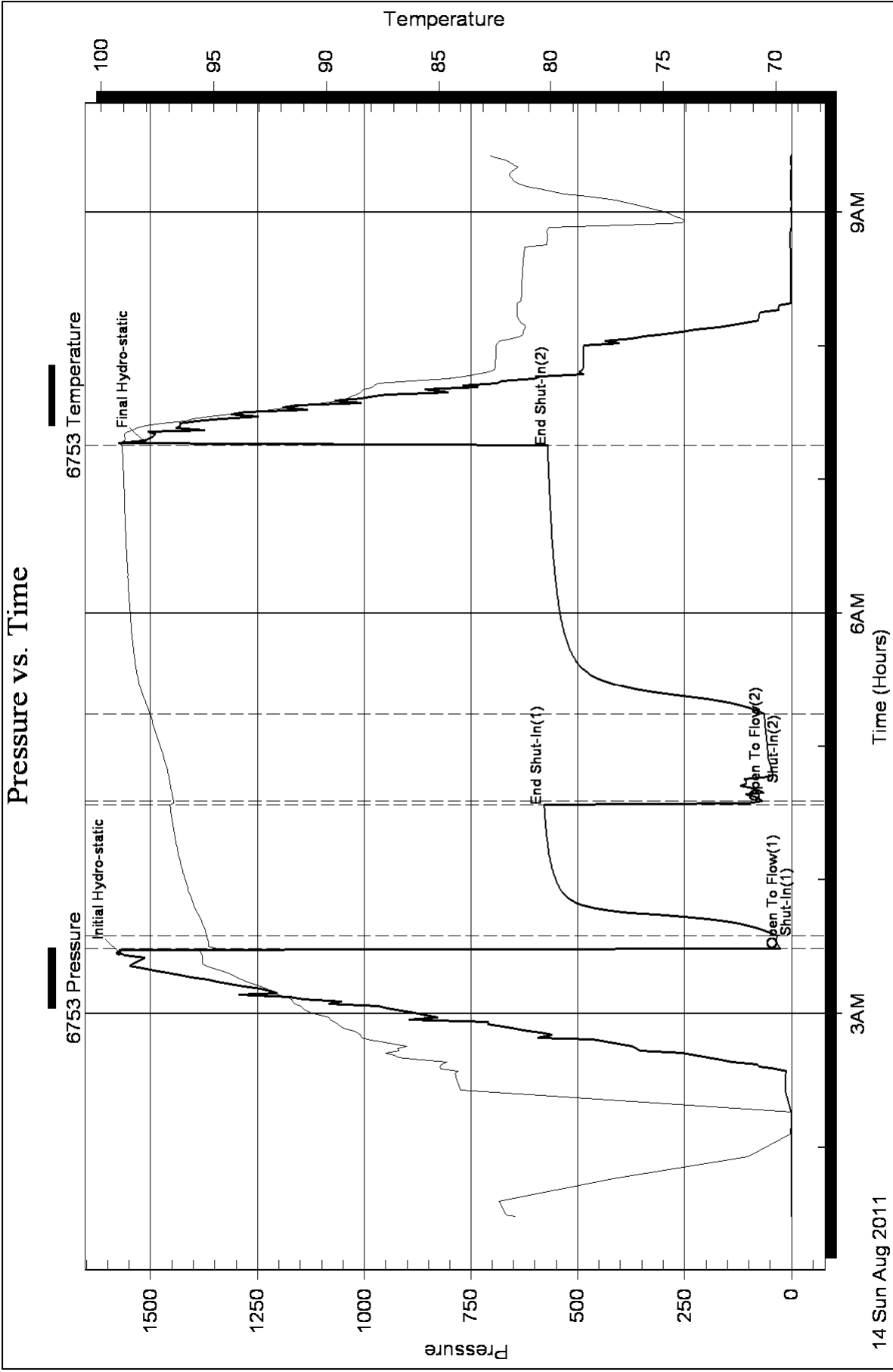
Length ft	Description	Volume bbl
90.00	VGSWMCO 50%G 5%W 5%M 40%O	0.989
30.00	GMCO 10%G 30%M 60%O	0.421
0.00	420ft GIP	0.000

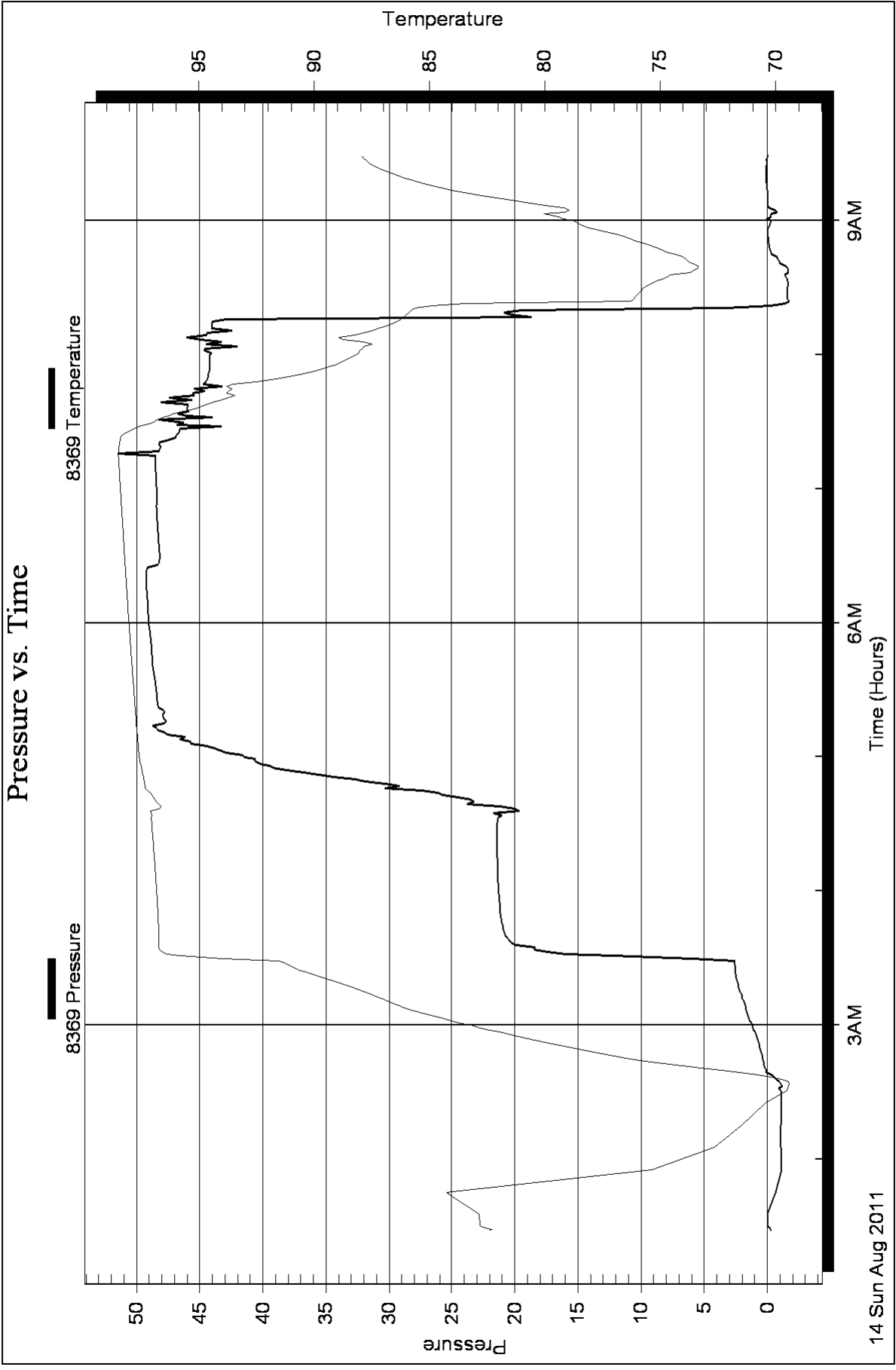
Total Length: 120.00 ft Total Volume: 1.410 bbl

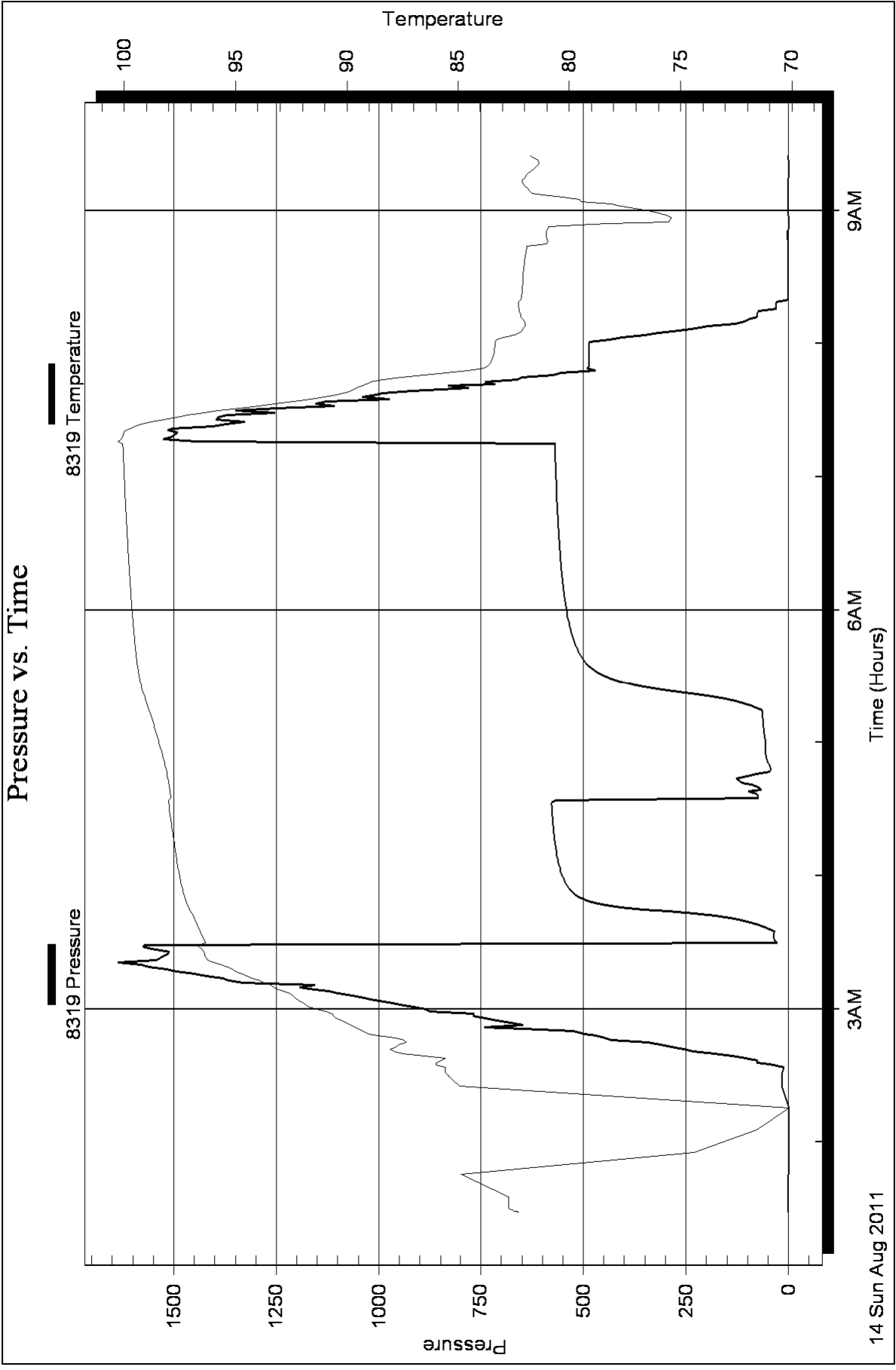
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

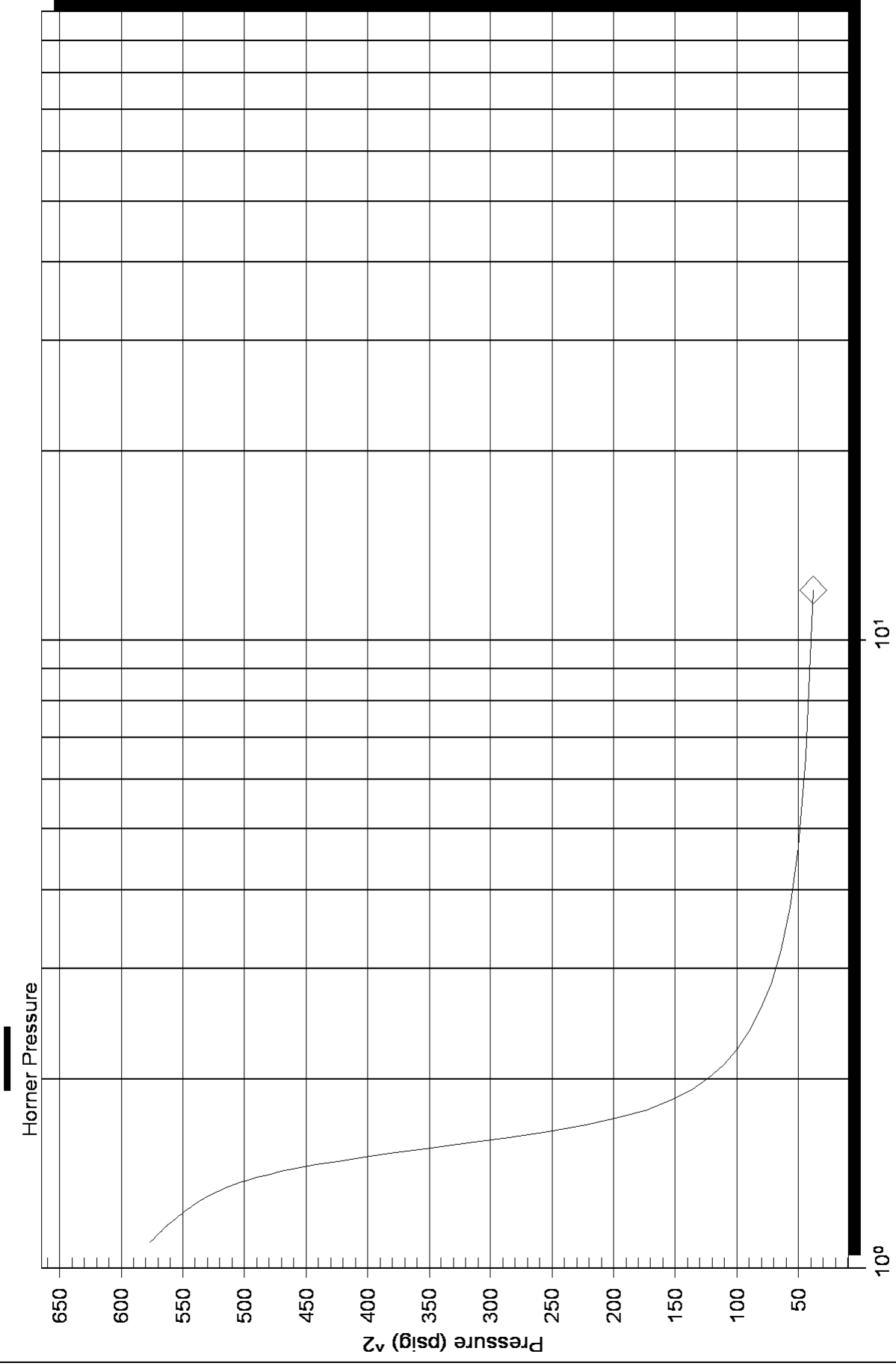
Recovery Comments: RW .08 @ 90
Sampler Data 2500mlO 200mlM 200mlW 1100mlG PSI 400







Homer Plot

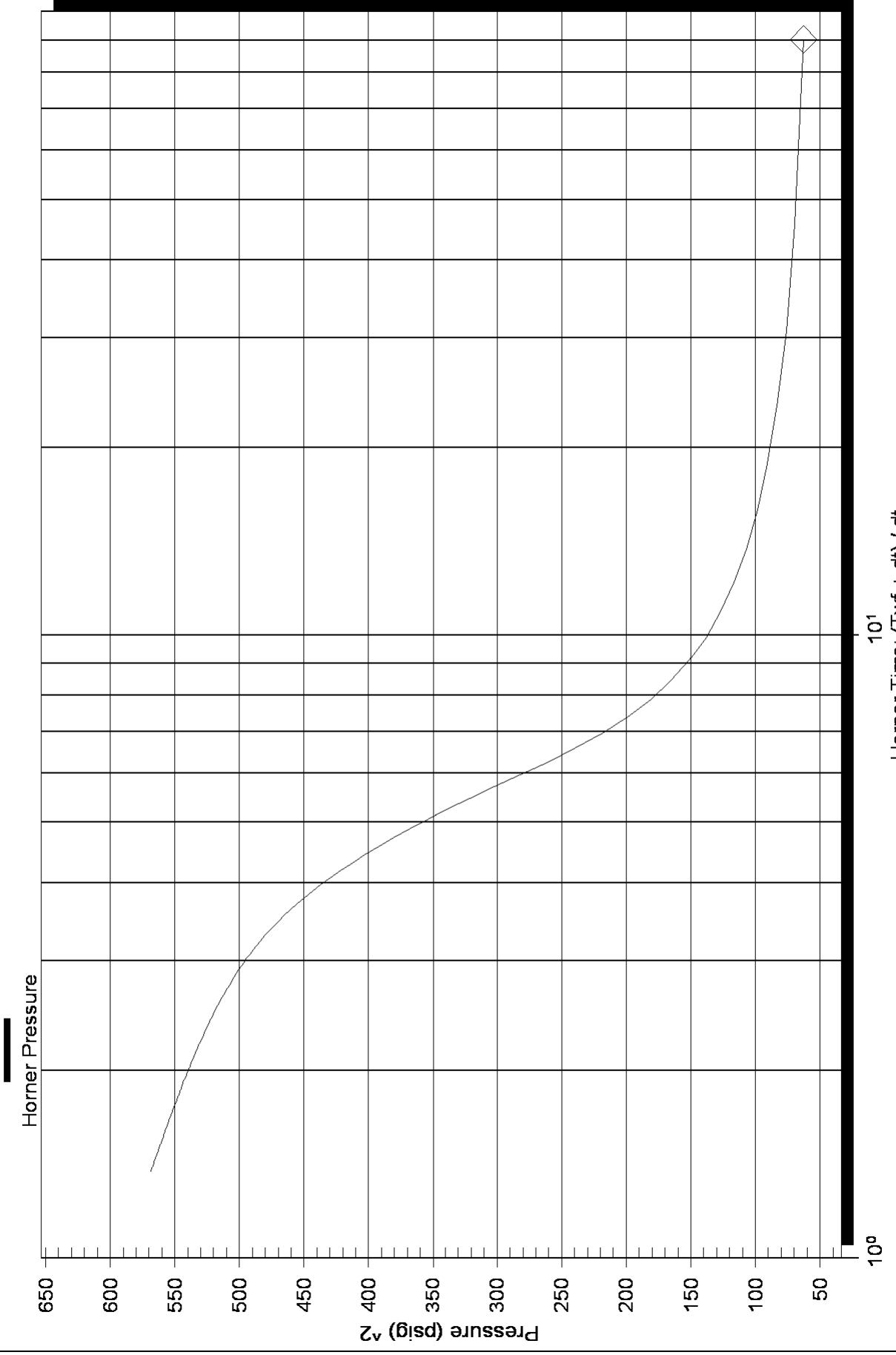


Serial Number: 6753 (Outside)

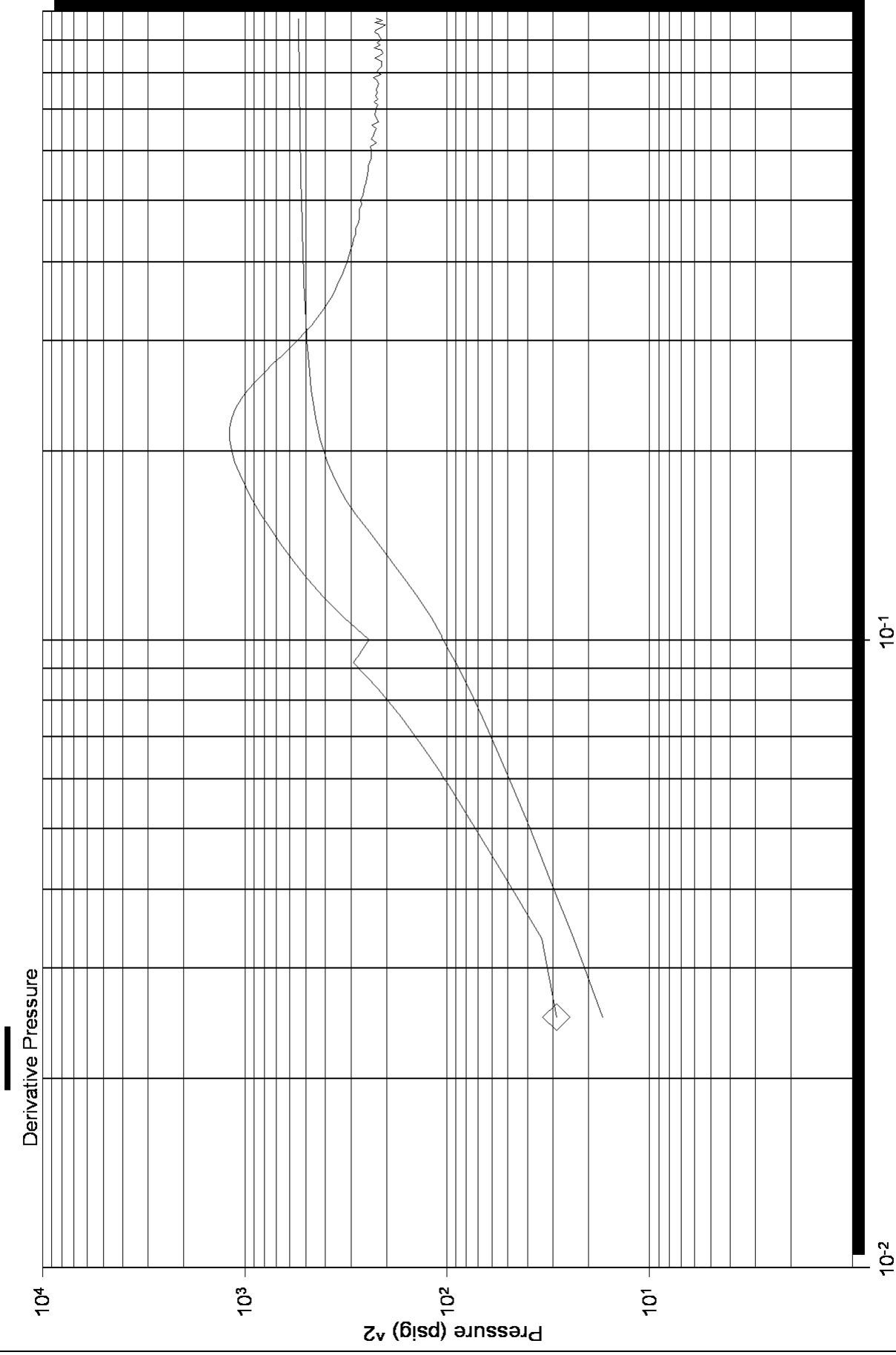
P* : Slope (m) : kpa/log cycle

Flow Cycle: 1

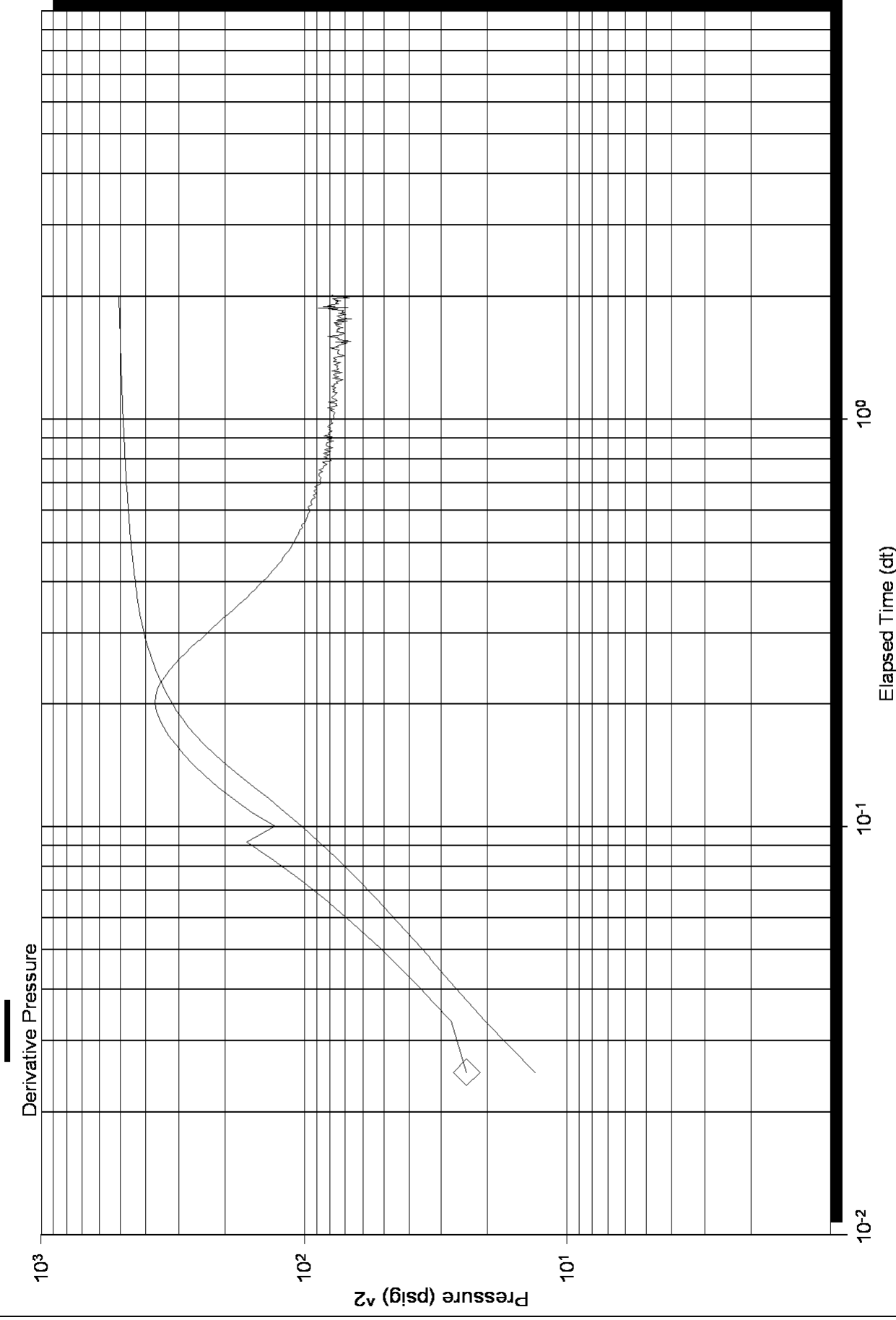
Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. Associates, Inc**

1515 Wynkoop Ste 700
Denver CO 80202

ATTN: Clayton Camozzi

20-12-16, Ellis, Ks

Chrisler ET AL 1-20

Start Date: 2011.08.14 @ 18:15:17

End Date: 2011.08.15 @ 00:06:17

Job Ticket #: 44289 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. Associates, Inc

Chrisler ET AL 1-20

1515 Wynkoop Ste 700
Denver CO 80202

20-12-16, Ellis, Ks

Job Ticket: 44289

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2011.08.14 @ 18:15:17

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:54:17

Time Test Ended: 00:06:17

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3268.00 ft (KB) To 3295.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3295.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 26.61 psig @ 3269.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.14

End Date:

2011.08.15

Last Calib.: 2011.08.15

Start Time: 18:15:22

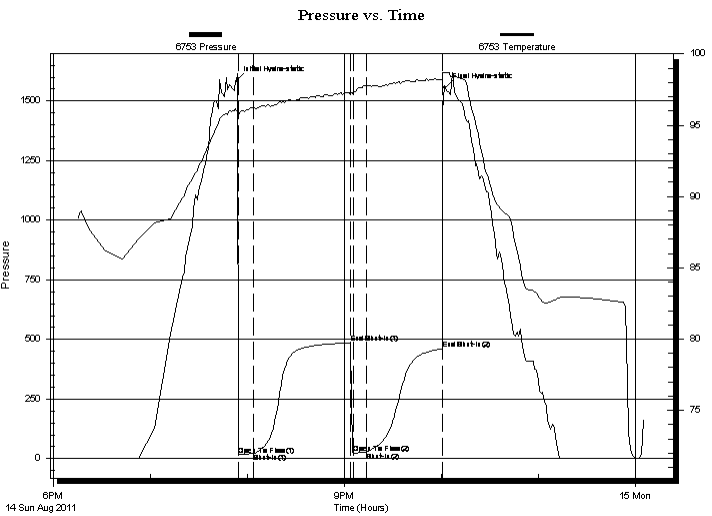
End Time:

00:06:16

Time On Btm: 2011.08.14 @ 19:53:17

Time Off Btm: 2011.08.14 @ 22:02:17

TEST COMMENT: 10min IF-Very weak surface blow
60min ISI-No blow
10min FF-No blow
45min FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1584.58	96.03	Initial Hydro-static
1	15.57	95.79	Open To Flow (1)
11	20.69	96.27	Shut-In(1)
71	486.05	97.32	End Shut-In(1)
72	22.79	97.34	Open To Flow (2)
80	26.61	97.75	Shut-In(2)
127	459.37	98.24	End Shut-In(2)
129	1556.42	98.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. Associates, Inc

Chrisler ET AL 1-20

1515 Wynkoop Ste 700
Denver CO 80202

20-12-16, Ellis, Ks

Job Ticket: 44289

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2011.08.14 @ 18:15:17

Tool Information

Drill Pipe:	Length: 3228.00 ft	Diameter: 3.80 inches	Volume: 45.28 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3268.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	62.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3234.00	
Recorder	0.00	8369	Fluid	3234.00	
Drill Pipe	5.00			3239.00	
Shut In Tool	5.00			3244.00	
Sampler	3.00			3247.00	
Hydraulic tool	5.00			3252.00	
Jars	5.00			3257.00	
Safety Joint	2.00			3259.00	
Packer	4.00			3263.00	35.00 Bottom Of Top Packer
Packer	5.00			3268.00	
Stubb	1.00			3269.00	
Recorder	0.00	8319	Inside	3269.00	
Recorder	0.00	6753	Outside	3269.00	
Perforations	23.00			3292.00	
Bullnose	3.00			3295.00	27.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. Associates, Inc

Chrisler ET AL 1-20

1515 Wynkoop Ste 700
Denver CO 80202

20-12-16, Ellis, Ks

Job Ticket: 44289

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2011.08.14 @ 18:15:17

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

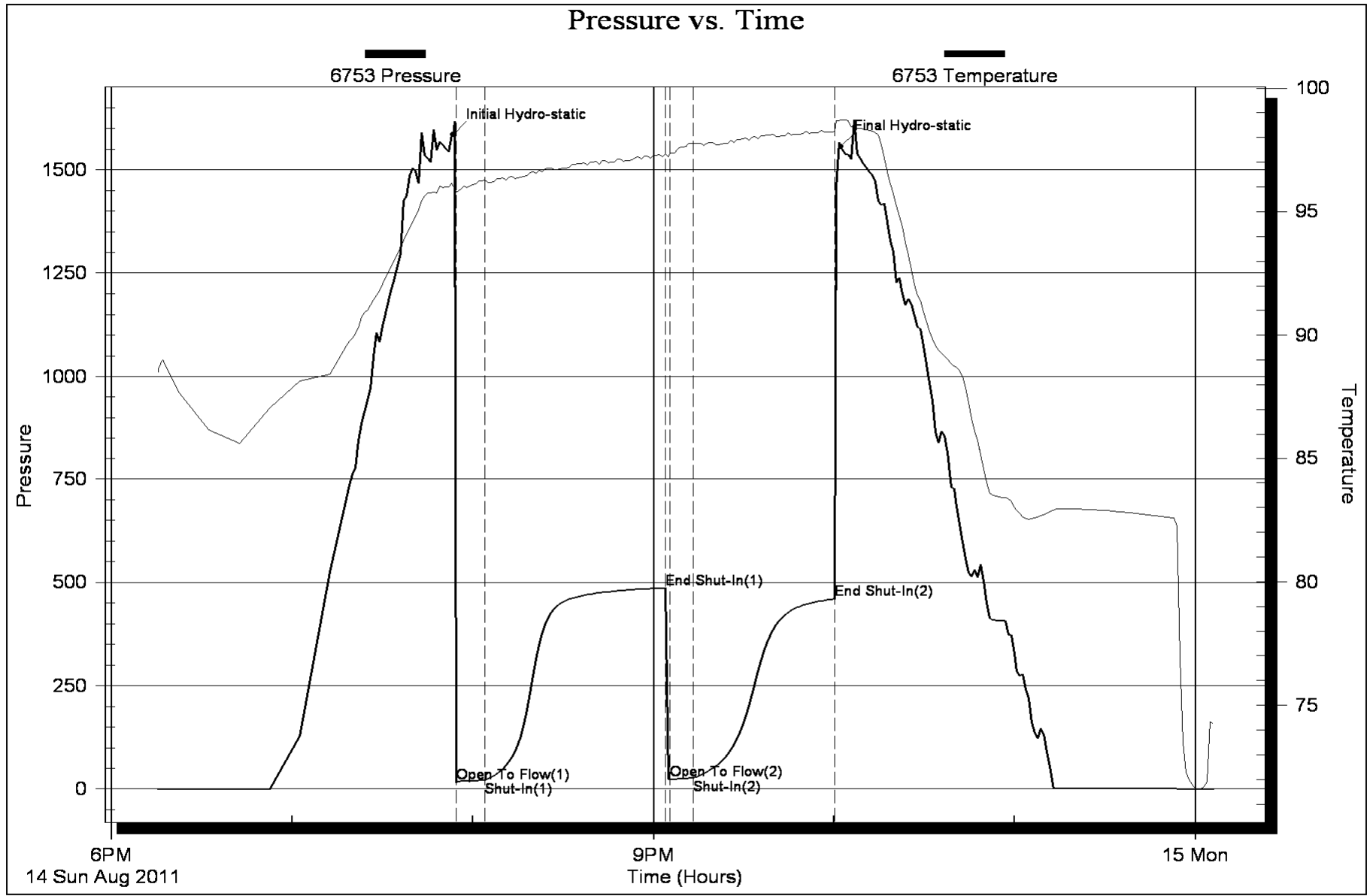
Num Gas Bombs: 0

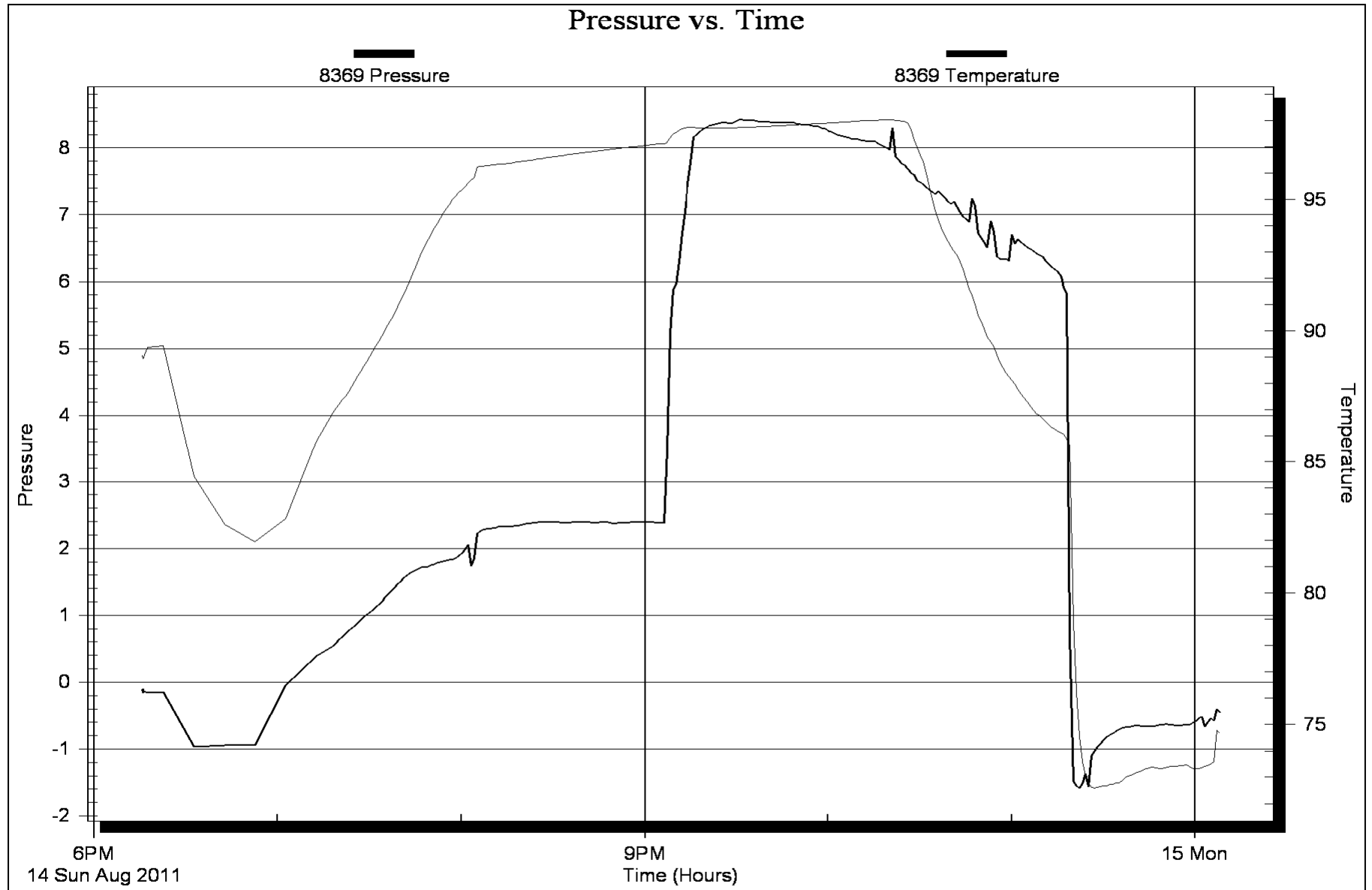
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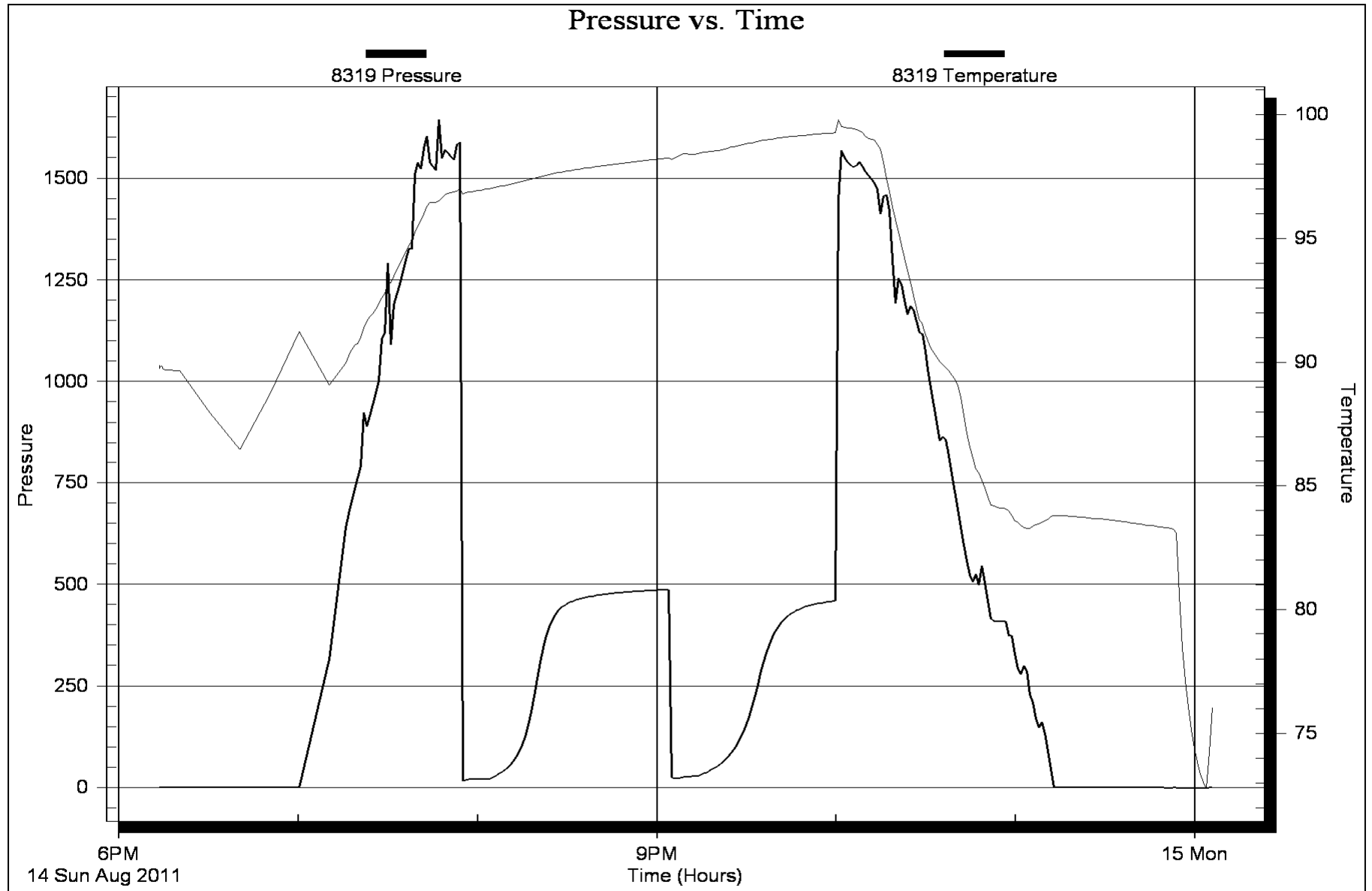
Laboratory Name:

Laboratory Location:

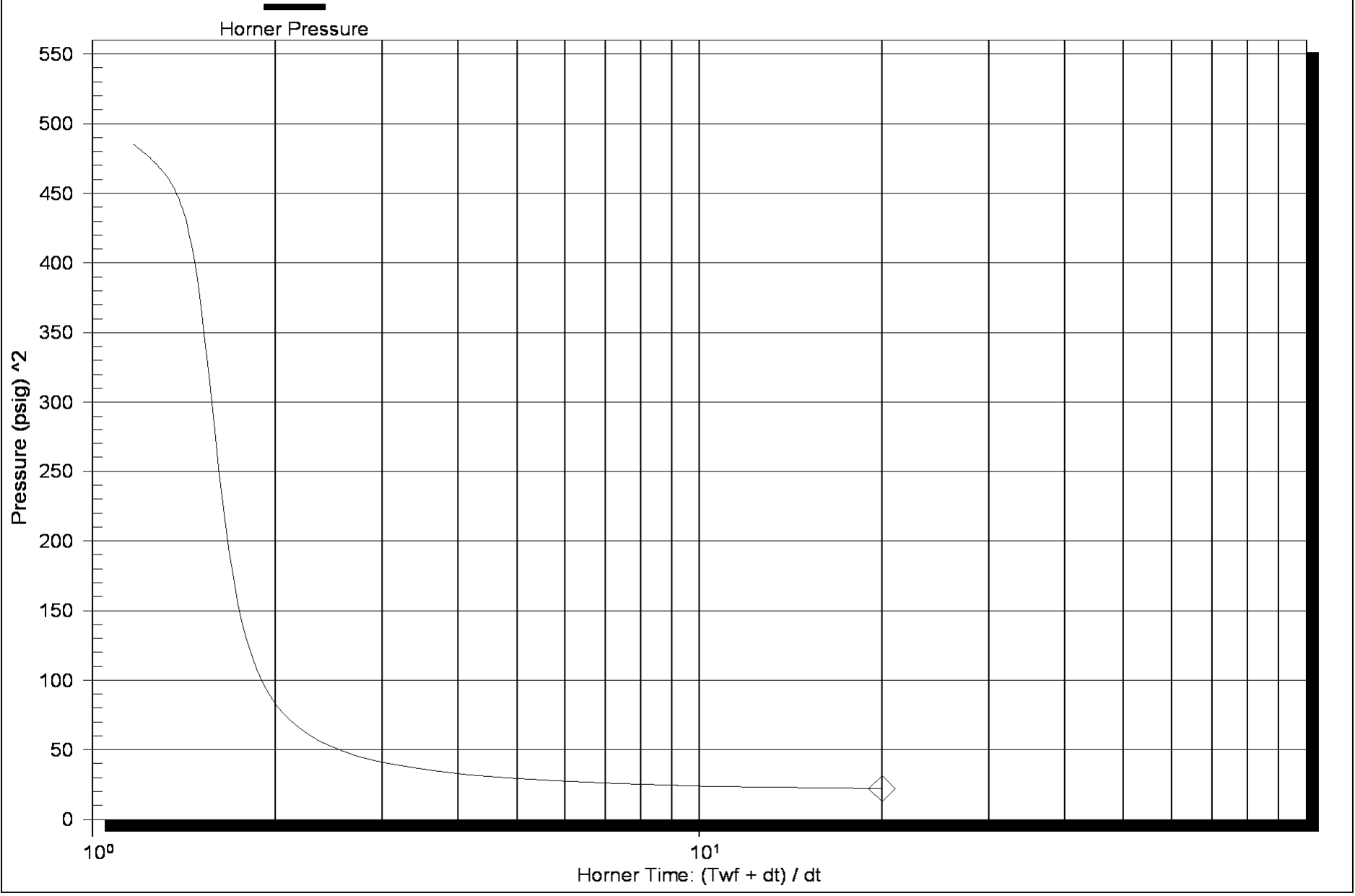
Recovery Comments: Sampler Data 4000ml mud 100psi



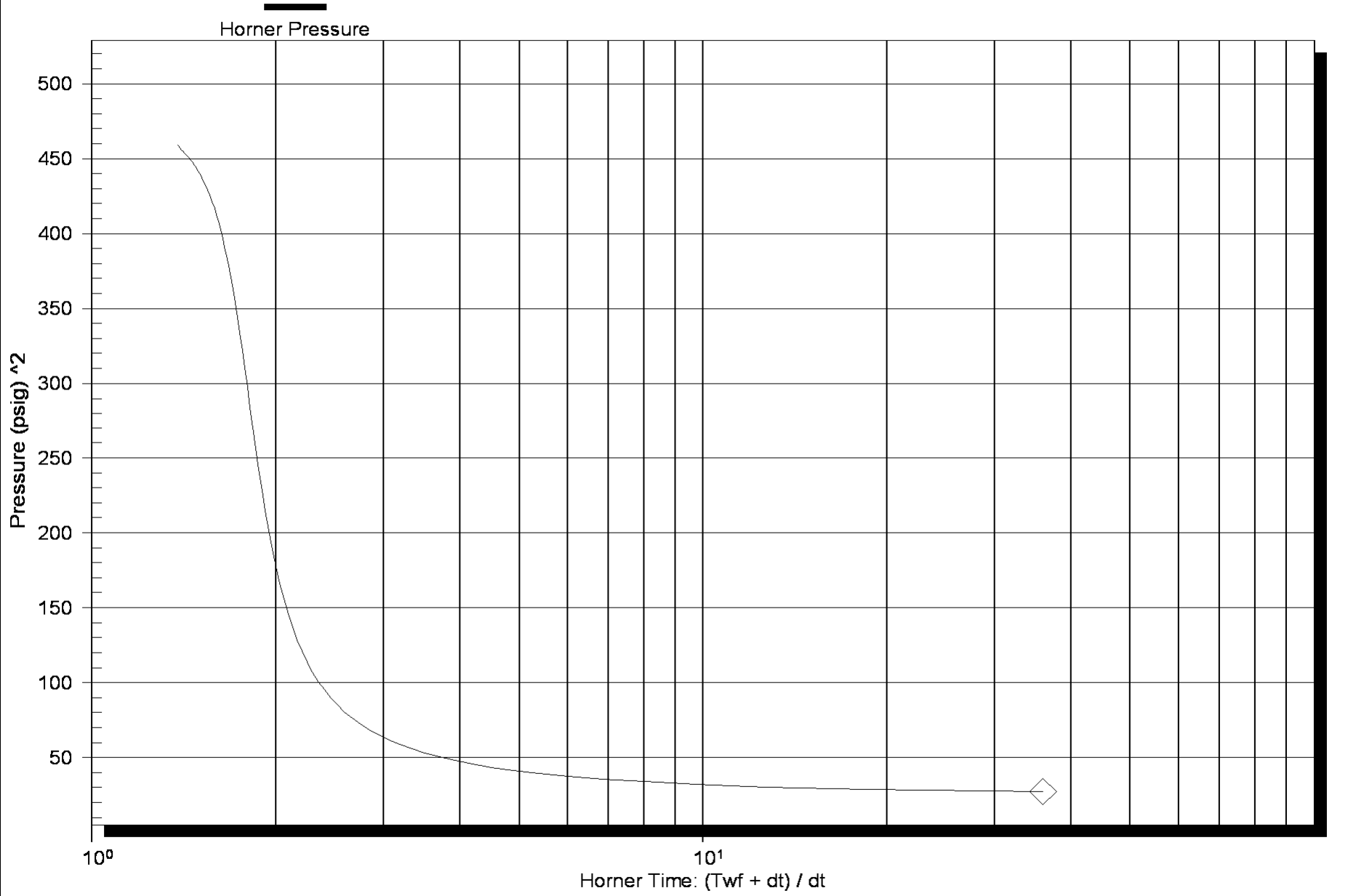




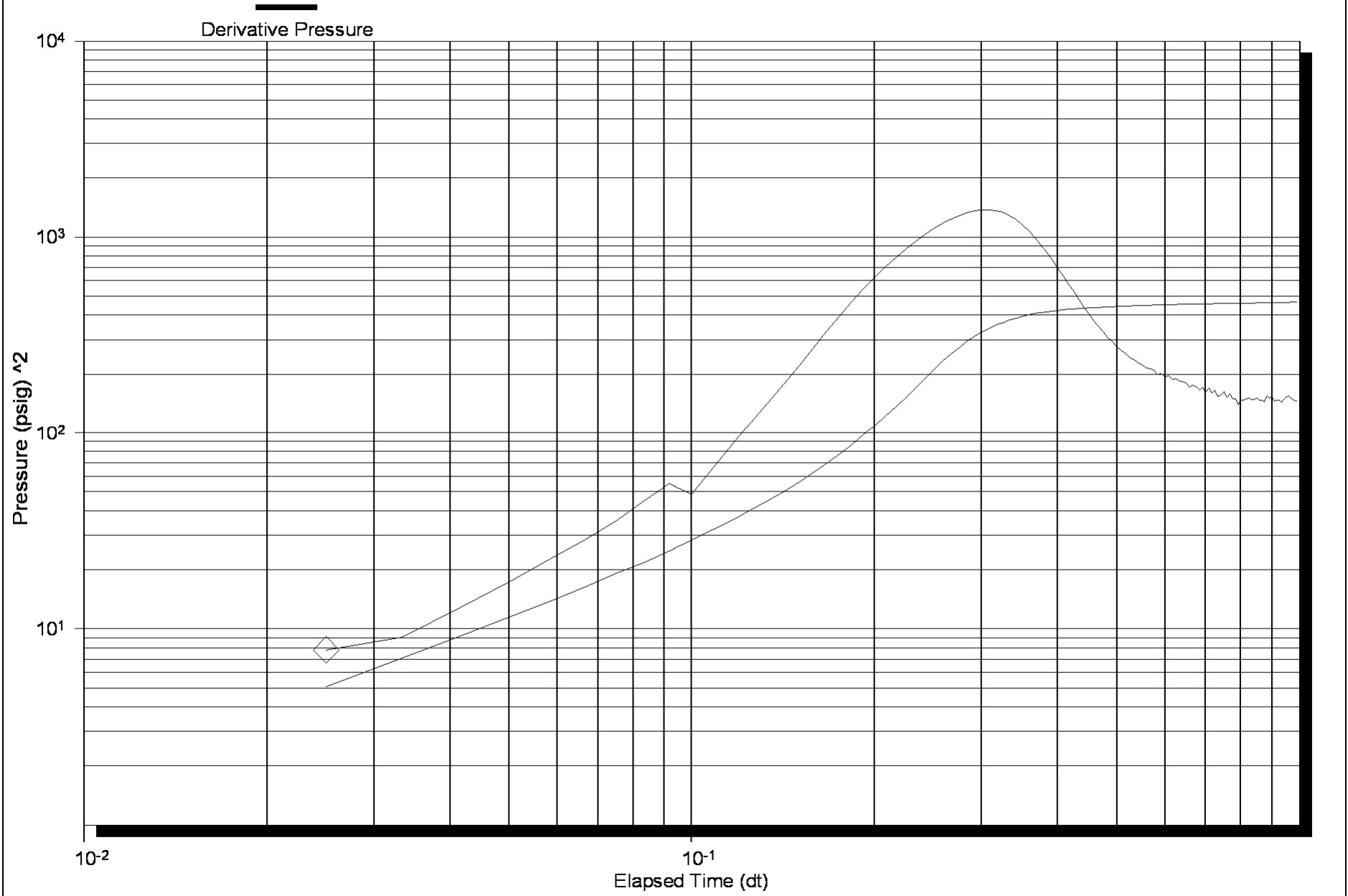
Horner Plot



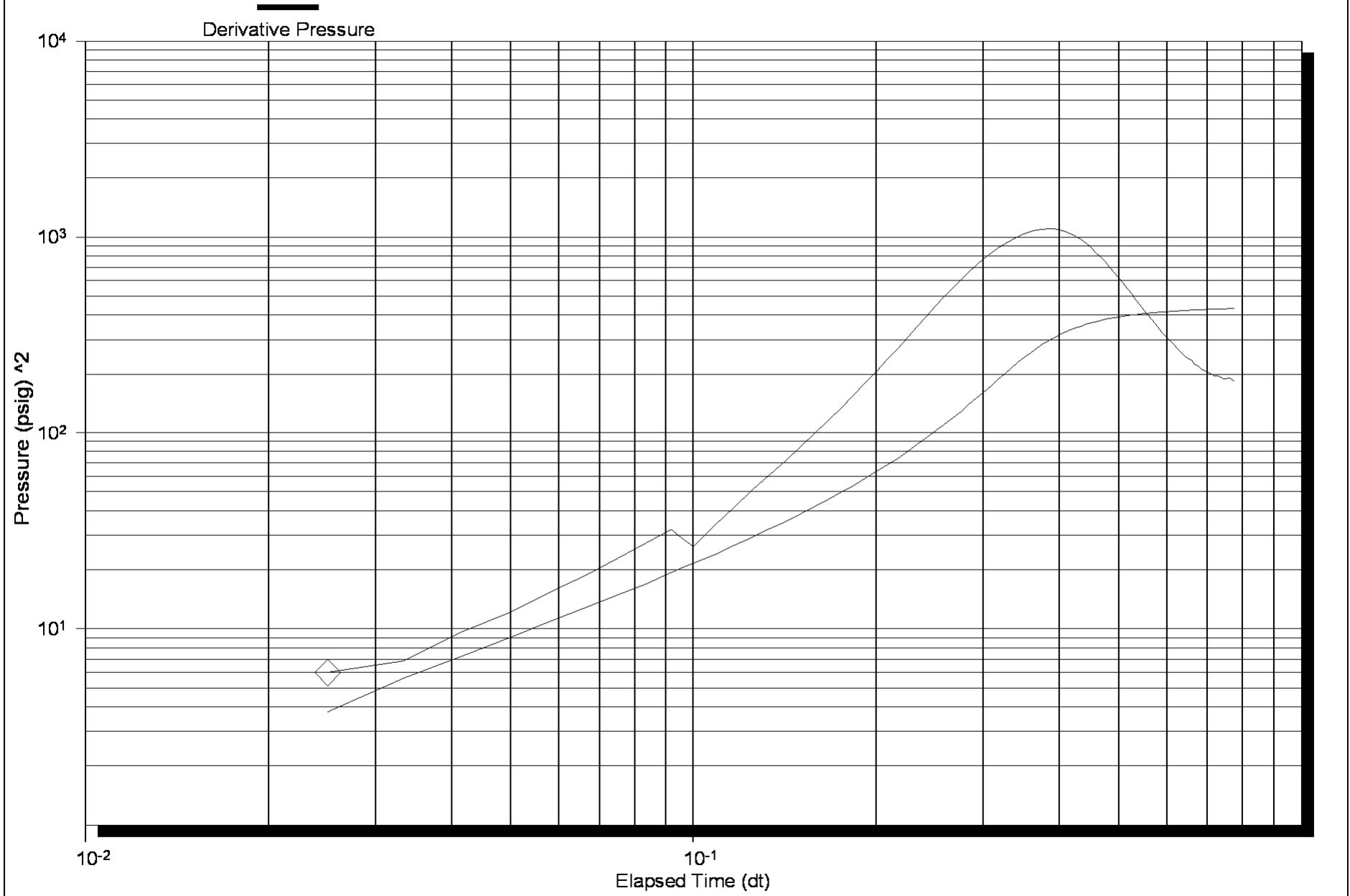
Horner Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





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

Well Name: SGA CHRISLER ET AL 1-20
 Location: SEC- 20 - 12S - 16W, ELLIS COUNTY, KS
 License Number: 15-051-26161
 Spud Date: 08/08/2011
 Surface Coordinates: 1080 FNL, 95 FEL
 Region: WILDCAT
 Drilling Completed: 8/16/2011

Bottom Hole Coordinates:
 Ground Elevation (ft): 1992' K.B. Elevation (ft): 2000'
 Logged Interval (ft): 475' To: 3605' Total Depth (ft): 3605'
 Formation: LANSING , ARBUCKLE
 Type of Drilling Fluid:

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

OPERATOR

Company: Sam Gary Jr. & Assoc
 Address: 1515 Wynkoop, # 700
 Denver, Co. 80202
 Geo: Clayton Camozzi

GEOLOGIST

Name: JASON MARSHALL/TIM HEDRICK
 Company: EARTH TECH OGL,Inc.
 Address: PO Box 683
 102 W. Main
 Hooker, Okla. 73945

DST's

DST #1 2920- 2954 25' FILL/ FAILED TEST

DST#2 3155- 3220' 5 60 40 120
 IF-3 3/4' BLOW/ ISI- NB/ FF- BOB 35MIN/FSI- WK SRFC BLOW
 IH- 1544, FH-1514/ IF-42 TO 65, FF- 75 TO 134/ ISI- 1014, FSI-971,
 RECOVERED- 210 ' TF, 30' GVSOWCM, 10%G.,2% O.,28%W,60%M/ 60'GVSOMCW, 10%G., 2% O.,
 68%W.,20%M./ 120' SGOMCW-5%G., 5% O., 60%W.,30%M.,
 BHT 97 DEG/ GR - RW .08 @ 95DEG. PIT CHL- 2900/ TEST CHL- 72,000/ SAMPLER- 1500 ML G., 250 ML O.,
 2250ML W., 425 PSI, 4000 TOTAL ML CHL-72000

DST#3 3216- 3270 5 60 40 120
 IF-4.5' BLOW /ISI- NB/ FF-BOB 5 MIN./FSI-NB
 IH- 1574, FH-1517/ IF-26 TO 33, FF-67 TO 62/ ISI-577. FSI-568
 RECOVERED-120' TF/ 90' VGSWCMCO, 50%G.,40% O.,5%W.,5%M./ 30' GMCO- 10%G.,60% O., 30%M.
 BHT 99 DEG/ GR 39 RW .08 @ 90 DEG. /PIT CHL 2900/ TEST CHL 76000/ SAMPLER-1100ML G., 2500 ML O.,200
 ML M., 400 PSI/ 4000 TOTAL ML

DSTs

DST#4 3268 - 3295' 10 60 10 45
 IF- V/WK SRFC BLOW/ ISI-NB/FF-NB/FSI-NB
 IH- 1585, FH- 1556/ IF-16 TO 21, FF-23 TO 27. ISI-486, FSI-459/ RECOVERED 5' MUD/ SAMPLER 4000 ML MUD,
 100 PSI

ROCK TYPES

	Anhy		Coal		Lmst		Shcol
	Bent		Congl		Meta		Shgy
	Brec		Dol		Mrlst		Sltst
	Cht		Gyp		Salt		Ss
	Clyst		Igne		Shale		Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral

- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

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

OTHER SYMBOLS

POROSITY

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOW

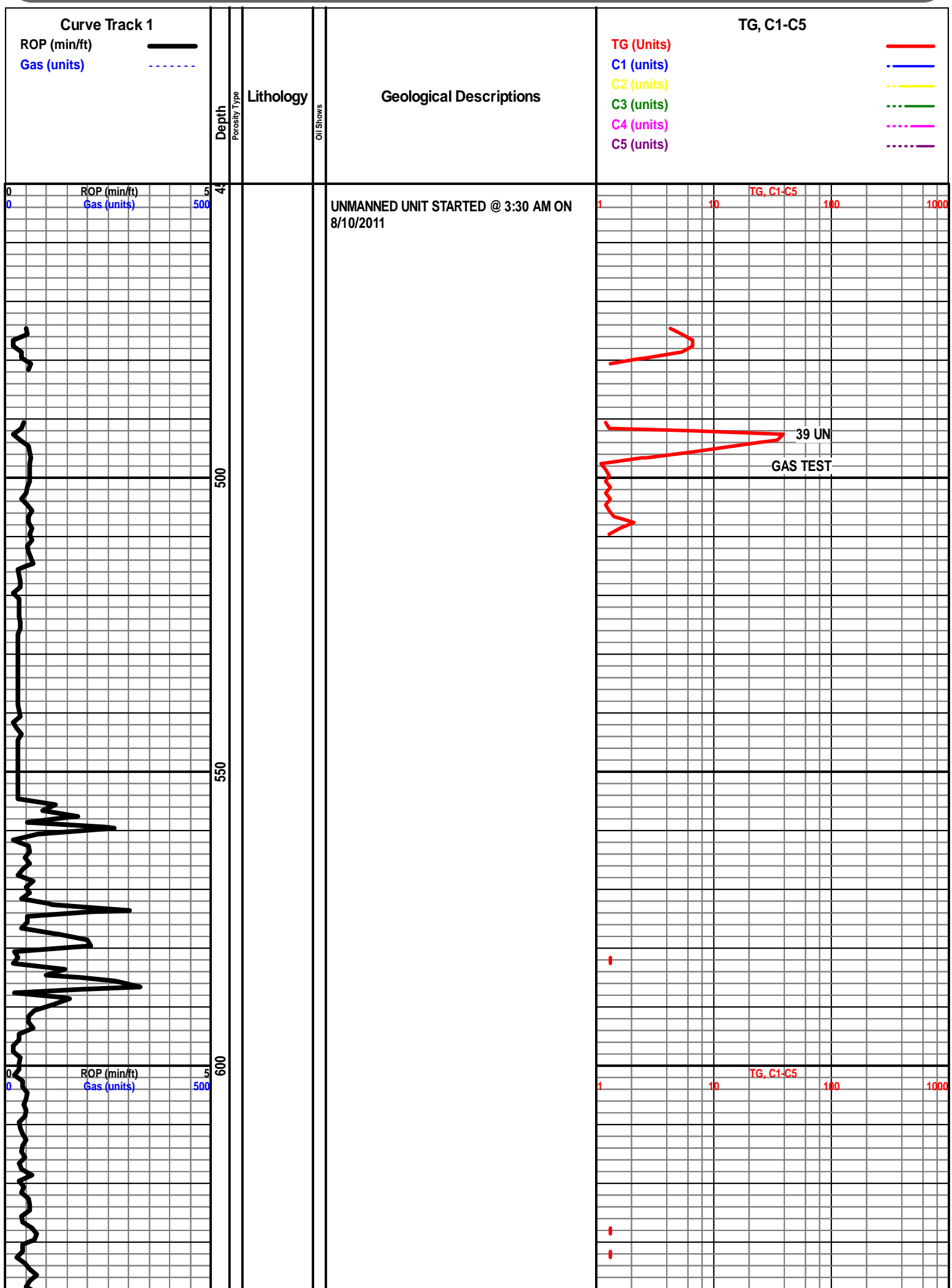
- Even
- Spotted
- Ques
- Dead

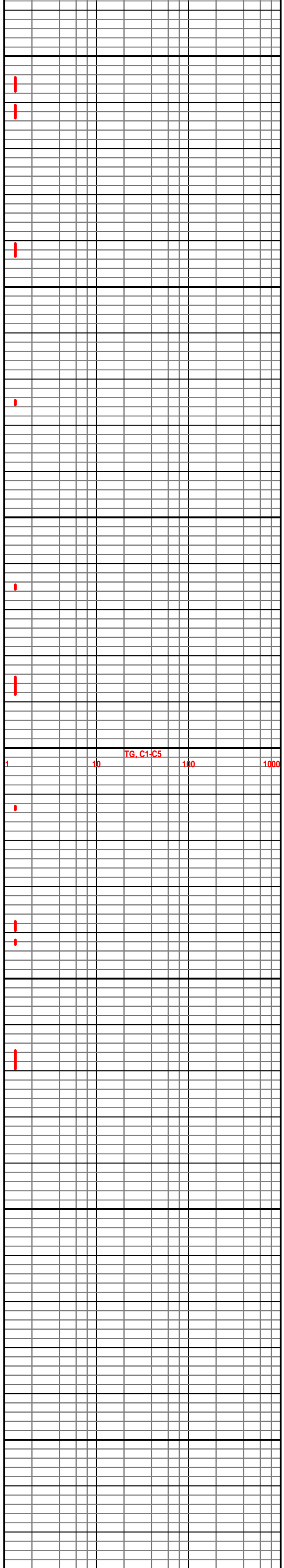
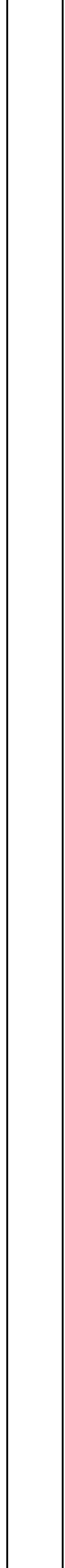
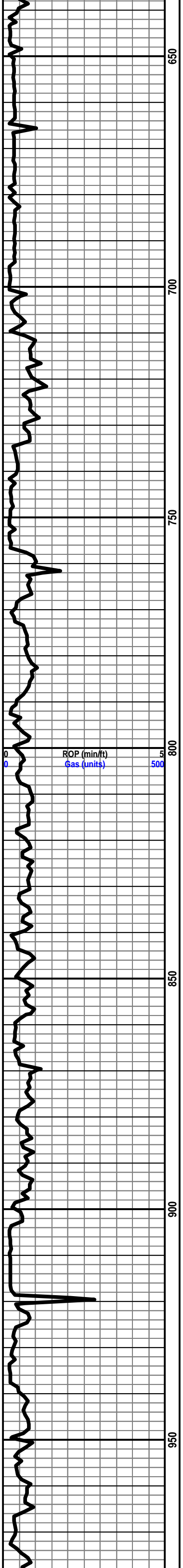
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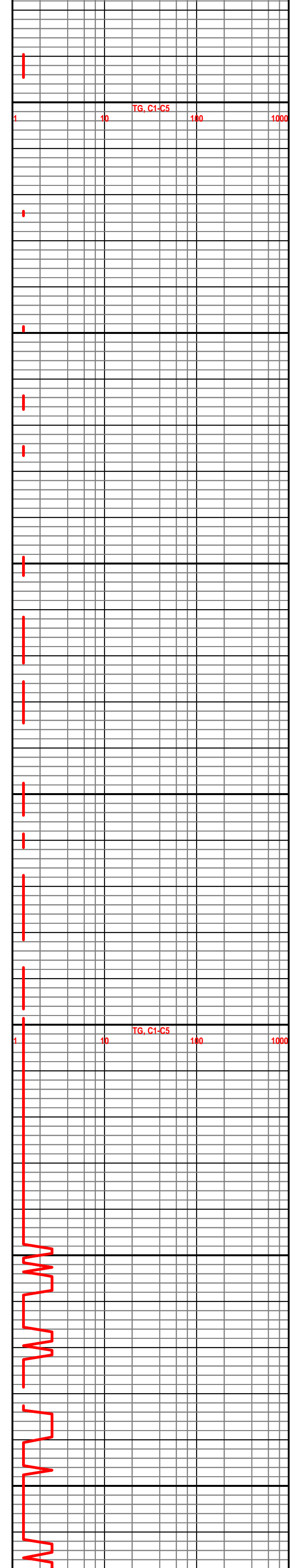
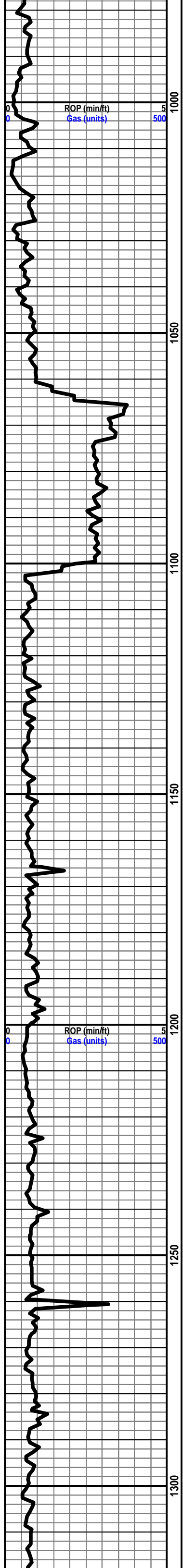
- Core
- Dst

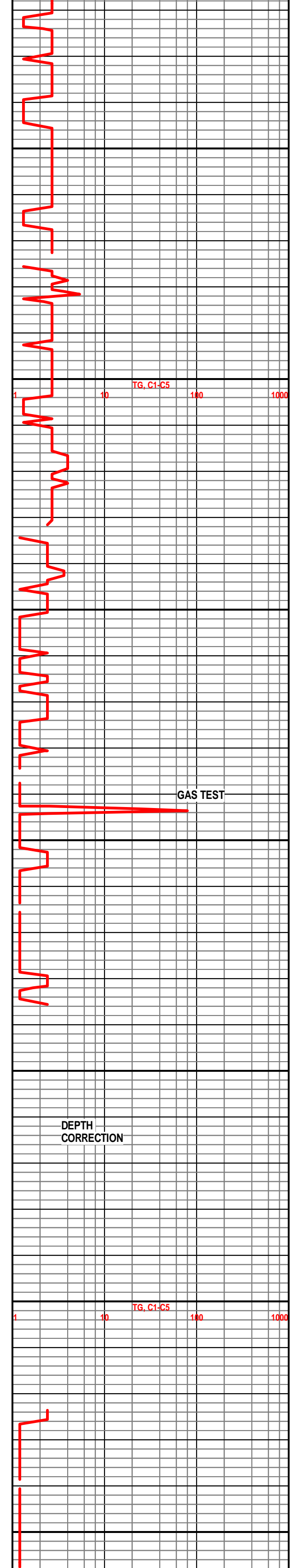
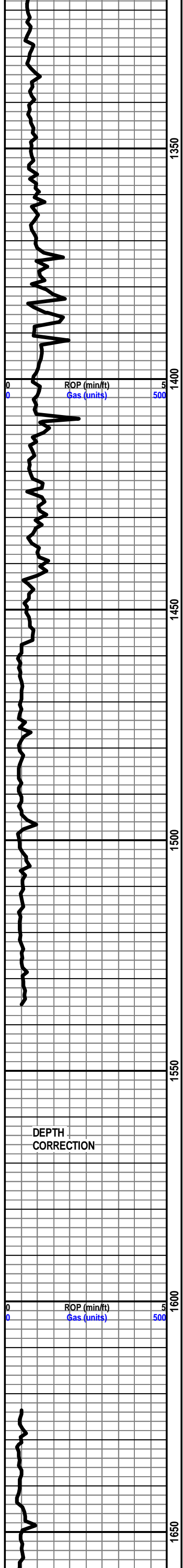
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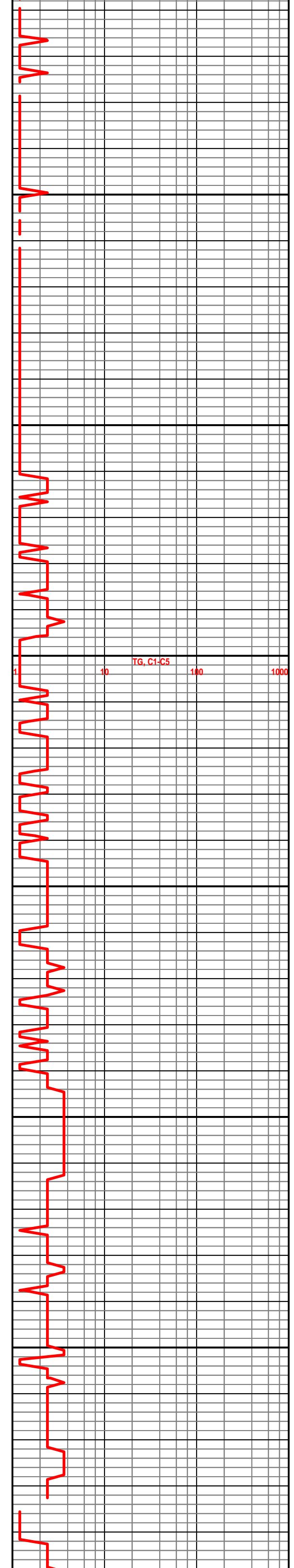
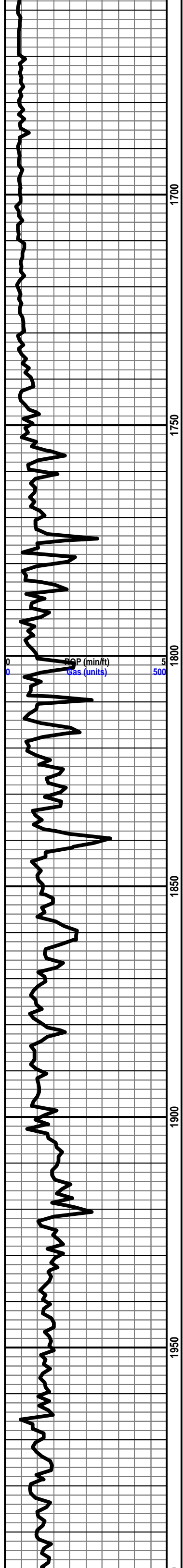
- Rft
- Sidewall

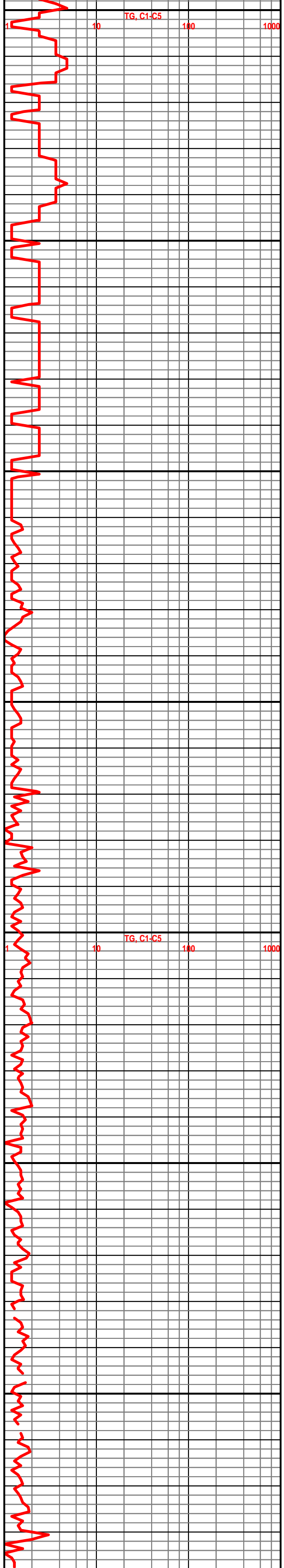
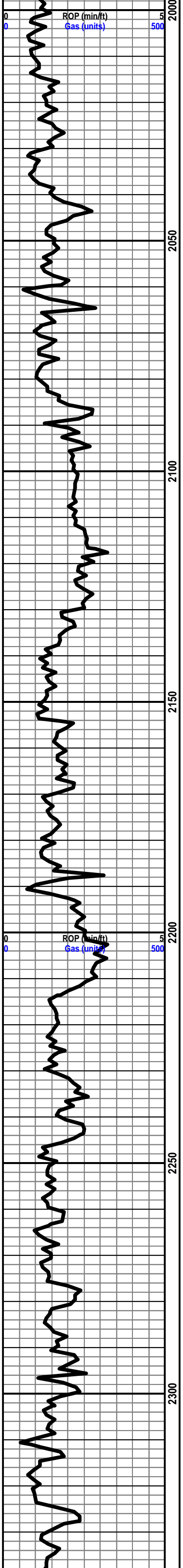


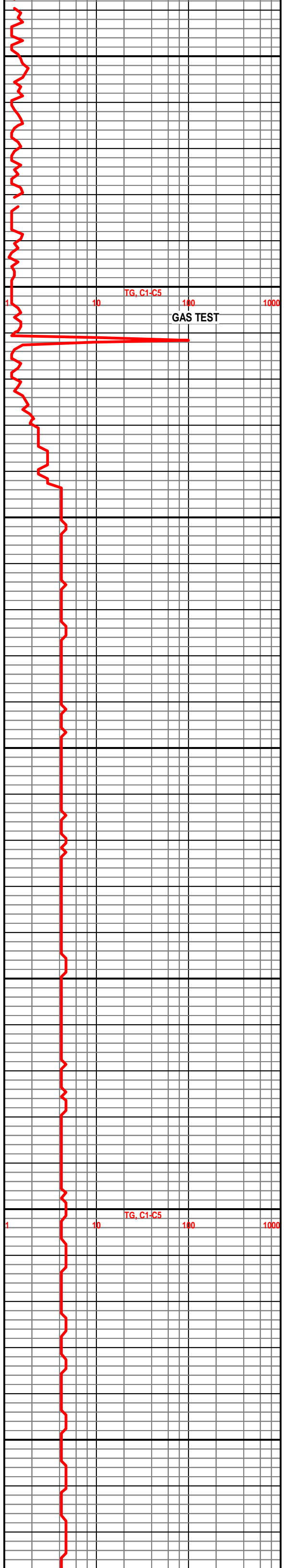
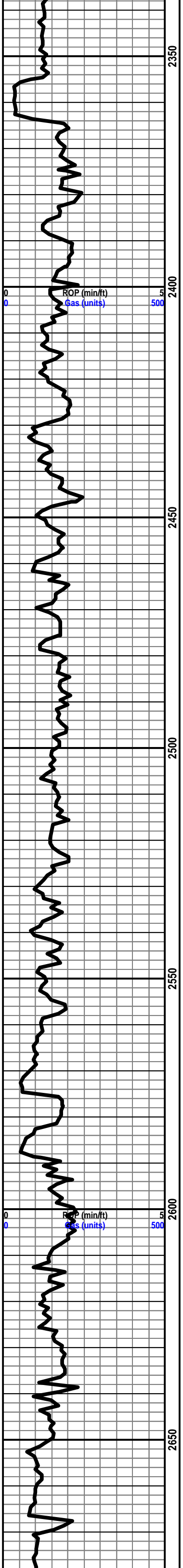


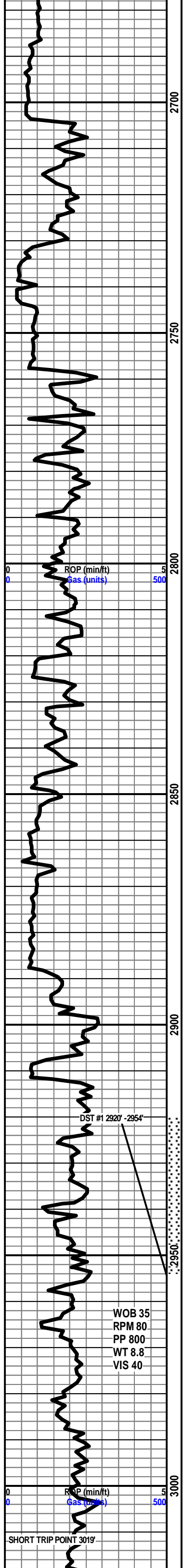












BASE ROOT SH 2704' -704'

**START 24 HR MANNED UNIT ON
8/12/2011 @ 2:00 AM**

SH- GRY TO DK GRY, FRM, SMTH BLKY

HOWARD 2896' - 896'

LS- CRM LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX, SUCRO TXT SCAT TIP, IMBD CALC XLS IP, IMBD FOSS FRAGS IP, DLL YEL MIN FLO SCAT IP, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX, SUCRO TXT SCAT TIP, IMBD CALC XLS THRU, IMBD FOSS FRAGS IP, DLL YEL MIN FLO SCAT IP, NO VIS POR, NO VIS SHOW

SEVERY 2939' - 939'

SH- GRY TO DK GRY, FRM, SMTH BLKY

TOPEKA 2946' - 946'

LS- CRM TN TO DK TN, DK STAIN THRU, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX, SUCRO TXT SCAT THRU, IMBD CALC XLS SCAT IP, GLD TO BRIT YEL FLO SCAT THRU, FR TO GD INTR-XLN TO GD PP POR, EXCL INST FLUSH CUT THRU TO VGD STRONG MLKY BLUE STREAM CUT THRU, GD OIL ODOR, TN TO DK TN STAIN ON DISH

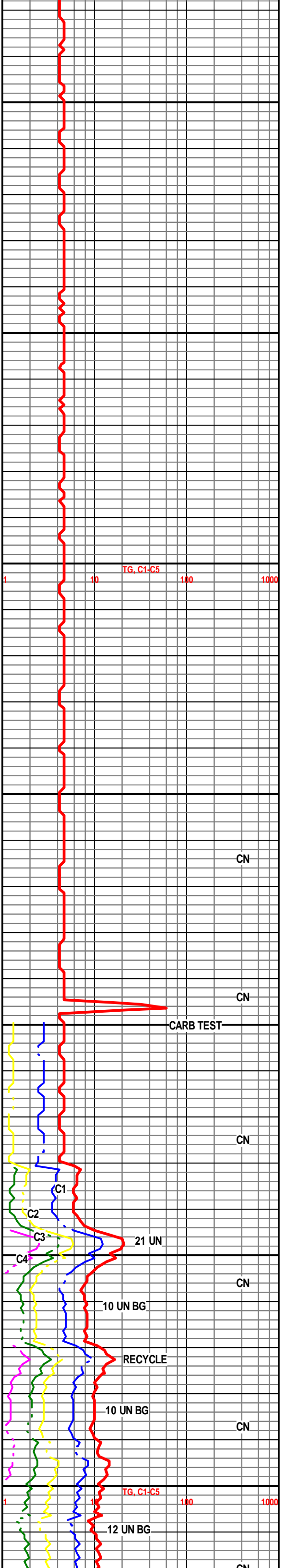
LS- CRM LT TN TO TN, HD DNS TO BRITT, FN XLN TO REXLN MTRX, SUCRO TXT SCAT IP, IMBD CALC XLS THRU, IMBD FOSS FRAGS SCAT IP, DLL YEL FLO SCAT IP, FR INTR-XLN POR, NO VIS CUT NO VIS SHOW

SH- LT GRY TO GRY, FRM TO TR SFT, BLKY

LS- CRM LT TN TO TN OFF WHT, HD DNS TO VBRITT, FN XLN TO REXLN MTRX SCAT THRU, IMBD CALC XLS SCAT IP, IMBD FOSS FRAGS, VSLI TR FRM OFF WHT CHLK IP, DLL YEL FLO THRU, FR INTR-XLN POR, NO VIS CUT, NO VIS SHOW

WOB 35
RPM 80
PP 800
WT 8.8
VIS 40

SHORT TRIP POINT 3019'



CARB TEST

21 UN

10 UN BG

RECYCLE

10 UN BG

12 UN BG

CN

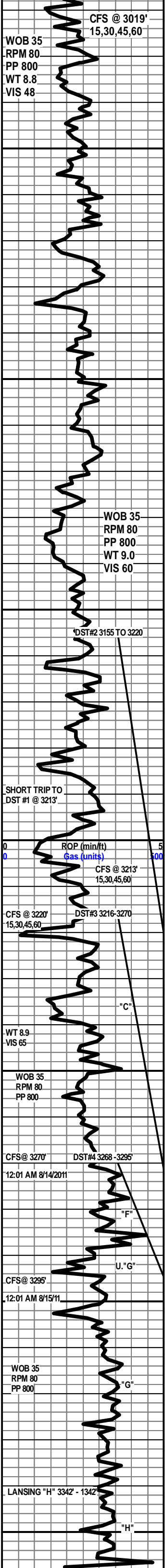
CN

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SH- GRAY TO DK GRAY BLK, FRM TO SFT, BLKY, SLI CARB

SH- GRAY TO DK GRAY, FRM, SMTH BLKY

LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT IP, IMBD FOSS FRGS IP, DLL YEL FLO SCAT THRU, NO VIS POR, NO VIS SHOW

LeCOMPTON 3052' - 1052'

LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, SLI TR FRM WHT CHLK IP, IMBD FOSS FRGS IP, DLL YEL FLO THRU, NO VIS POR, NO VIS SHOW

SH- GRAY TO DK GRAY BLK, FRM TO SFT, BLKY, SLI CARB

LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, SLI TR FRM WHT CHLK IP, IMBD FOSS FRGS IP, DLL YEL FLO THRU, NO VIS POR, NO VIS SHOW

LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, FN XLN TO REXLN MTRX THRU, IMBD CALC XLS THRU, IMBD FOSS FRGS IP, TR SFT WHT CHLK, DLL GLD FLO, FR INTR-XLN POR, NO VIS CUT NO VIS SHOW

3128-3136' LS- CRM TN TO DK TN OFF WHT, STAIN THRU, HD DNS TO BRITT, MD XLN TO REXLN MTRX THRU, IMBD CALC XLS THRU, IMBD FOSS FRGS IP, SLI TR CRM CHRT, SLI TR IMBD GRN CLAY, DOS IN 35%, GLD TO BRIT YEL FLO IN 45%, GD INTR-XLN TO GD VUG POR, EXCL INST FLUSH CUT THRU TO EXCL STRONG MLKY BLUE STREAM CUT THRU, STRONG OIL ODOR, DK STAIN ON DISH

HEEBNER 3161' - 1161'

LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, MD XLN TO REXLN MTRX THRU, IMBD CALC XLS IP, IMBD FOSS FRGS IP, FRM TO SFT WHT CHLK SCAT THRU, TR DLL YEL FLO IN 20%, FR FLUSH CUT THRU TO FR WEAK MLKY BLUE STREAM CUT IN 10%, FR OIL ODOR

3180-3185' LS- CRM LT TN TO TN OFF WHT, STAIN IN 60%, HD DNS TO BRITT, FN XLN TO REXLN MTRX THRU, SUCRO TXT SCAT THRU, IMBD CALC XLS IP, SLI TR SFT WHT CHLK, DLL YEL TO GLD FLO SCAT THRU, FR TO GD INTR-XLN TO FR MICRO PP POR, GD INST FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 50%, GD OIL ODOR, TN STAIN ON DISH

DOUGLAS 3194' - 1194'

SH- GRAY TO DK GRAY, FRM, BLKY

LANSING 3205' - 1205'

3206-3209' LS- CRM TN TO DK TN, STAIN THRU, HD DNS TO BRITT, FN XLN TO REXLN MTRX, SUCRO TXT THRU, IMBD SM TO MD CALC XLS THRU, V/S LI TR IMBD GRN SHALE, BRIT YEL FLO THRU, GD INTR-XLN TO TR GD VUG POR POSS FRAC POR, EXCL INST FLUSH CUT THRU TO EXCL STRONG MLKY BLUE STREAM CUT THRU, GD STRONG OIL ODOR, DK TN STAIN ON DISH

3220-3222' LS- OFF WHT LT TN (SCAT STN IN 50%) HD DNS TO BRITT, V/ SUCRO MTRX TO F-XLN IP, TR SFT CHLK IP, BRIT YEL GLD FLO IN 10%, DLL YEL GLD FLO IN 70%, PR SCAT VIS MICRO PP POR, SLI TR V/ PR MICROVUG SCAT, FR FLUSH TO GD SLO STRM CUT IN 60%, NO ODOR, LT TN LCH ON DISH

LANSING "C" 3233' - 1233'

3234-3239' LS- LT TN TN (MD DK TN OIL STN IN 80%) HD V/ BRITT, MD-F-XLN RE-XLN MTRX, FOSS IP, TR SCAT IMBD OOL IP, SMLL CALC XLS IMBD IN POR, BRIT YEL GLD FLO IN 80% DLL YEL GLD FLO IN 20%, FR TO GD VIS MICRO VUG POR IN 60%, GD VIS INTERXLN PP POR & FR VIS INTERFOSS POR IP, GRDNG TO PR SCAT MICRO VUG POR IN LOWER 2' OF BK, V/GD FLUSH TO V/ GD SLO STRM CUT IN 80%, GD OIL ODOR, TN LCH ON DISH

3255- LS CRM LT TN (TN STN SPTTD IN 50%) HD DNS, F-V/F-XLN RE-XLN MTRX, TR S-CHLKY IP, TR SCAT IMBD SH IP, DLL YEL GLD FLO THRU, BRIT YEL GLD FLO IN 20%, TR SCAT MICRO PP POR, TR V/ PR SCAT MICROVUG POR, WK FLUSH TO FR SLO STRM CUT IN 30-40%, NO ODOR

SH- BLK SFT CARB

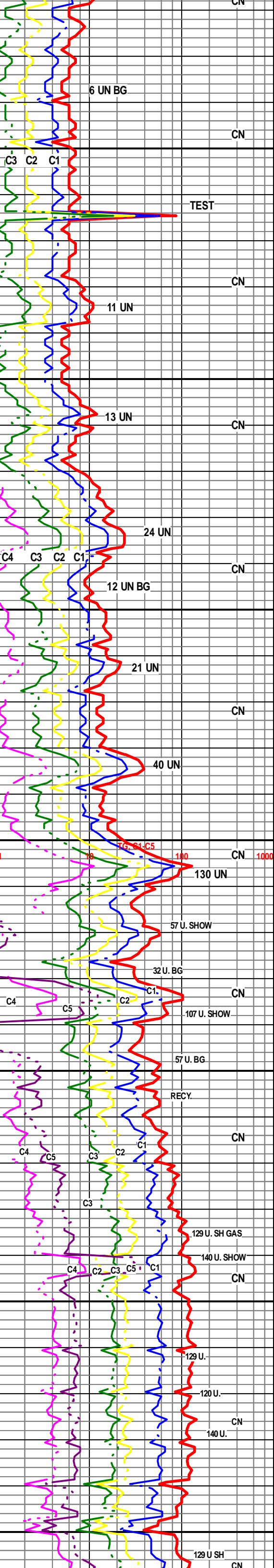
3278-86' LS- TN BRN GY- HD DNS MOTT, MD-F-XLN RE-XLN MTRX, ABDT IMBD FOSS FRGS, IMBD LMNTD LT GRN SH THRU, NO FLO, NO VIS POR, NO VIS SHOW

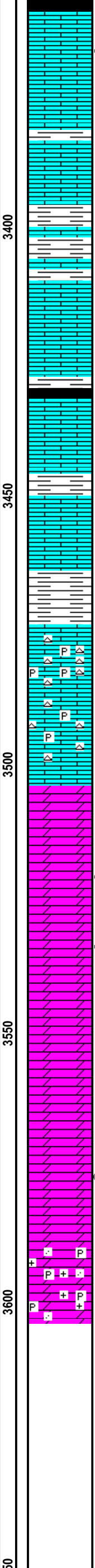
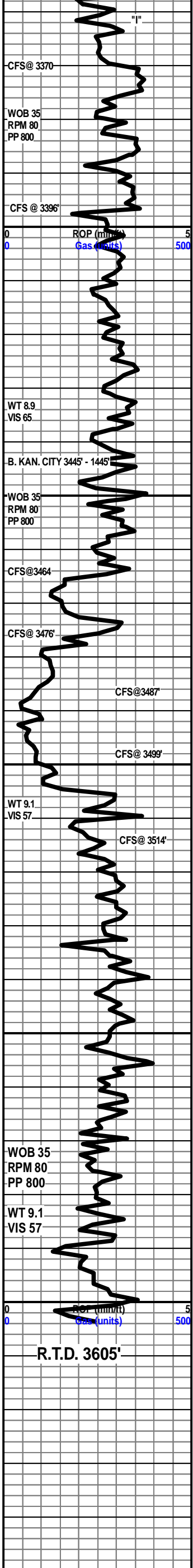
3291- 3294' LS- CRM - TN LT BRN- (STN IN 80%) HD TO V/ BRITT, MD-XLN RE-XLN MTRX, IMBD SMLL OOL, IMBD FOSS FRGS SCAT THRU, IMBD SML ANG LM GRNS IP, BRIT YEL GLD FLO IN 60%, DLL YEL GLD FLO IN 40%, FR TO GD VIS INTER-XLN FOSS POR IN 50%, FR TO TR GD SCAT MICRO VUG POR 20%, SME SCAT MICRO PP POR IP, GD FLUSH CUT TO V/ GD SLO STRM CUT IN 80%, GD OIL ODOR, DK TN LCH ON DISH

3302-3303' LS- WHT OFF WHT TO CRM, LT TN STN IN 20% SCAT, HD DNS F-V/F-XLN, RE-XLN IP, TR V/ TT SUCRO IP, BRIT YEL GLD FLO IN 30%, DLL YEL GLD FLO IN 40%, V/ PR SCAT MICRO PP POR TO SCAT PR MICROVUG POR IP, FR FLUSH CUT TO FR TO TR GD SLO STRM CUT IN 30%, FR OIL ODOR

3304-3338' LS- OFF WHT CRM LT TN DUE TO SCAT TN STN IN 60%, HD DNS TR BRITT, F-V/F-XLN RE-XLN IP, SLI TR FOSS IP, ABDT OQUE WHT CHRT THRU, BRIT YEL GLD FLO IN 60% BRIT YEL GLD FLO IS ON ONE FACES OF THE ROCK, DLL YEL GLD FLO IN 20%, PR VIS SCAT MICROVUG POR IP, FR TO GD FLUSH CUT IN 60%, GD SLO STRM CUT IN 60%, GD OIL ODOR, LT TN LCH ON DISH

3350' LS- WHT OFF WHT, MD HD TO FRM, V/ CHLKY





3350-LS- WHT OFF WHT- MD HD TO FRM, V/CHLKY MTRX, ABDT IMBD PYR CLSTRS,TR IMBD SH IP, NO FLO NO VIS POR, NO VIS SHOW

3360-3364 LS- CRM LT TN TN(TN OIL STN SCAT THRU) HD DNS TO BRITT IP, V/ SUCRO MTRX TO F-XLN IP RE-XLN, FOSS FRGS SCAT THRU TR MD OOL IP,BRIT YEL GLD FLO IN 40%, DLL YEL GLD FLO IN 80%, PR TO FR TO GD INTER-XLN INTER-FOSS POR IN 60% , TR SCAT MICROVUG POR, GD FL SH CUT TO EXCEL SLO STRM RICH MILKY BLUE CUT IN 80%, TN BRN LCH ON DISH

3364- 3370' LS- OFF WHT CRM LT TN IP(LT TN STN IN 10%) HD DNS SLI TR BRITT IP, MD-XLN TO TT SUCRO MTRX V/ S-CHLKY IP, SLI TR FOSS FRGS IP, BRIT YEL GLD FLO IN 25%, NO VIS POR, V/ LT FL SH CUT TO PR SLO STRM CUT IN 10%

3376-3380- LS- OFF WHT CRM BFF- HD DNS TR BRITT, MD-F-XLN, RE-XLN MTRX IP,SCAT IMBD SMLL CALC XLS IP,TR MICRO OOL, SME SCAT IMBD SFT CHLK,NO FLO, PR SPARSLEY SCAT MICRO OOLMLD POR 5%,PR SCAT MICRO VUG POR IN 5%, NO VIS SHOW

3388-3390- LS- OFF WHT CRM LT TN (TN STN SCAT IN 50%, HD DNS TR BRITT IP, F-VF-XLN TO SUCRO IP, TR IMBD SMLL CALC XLS IP, BRIT YEL GLD FLO IN 50%, DLL YEL FLO IN 30%, PR SCAT MICRO PP POR AND PR INTER-XLN POR, FR FL SH CUT AND PR SLO STRM CUT IN 60%, GD OIL ODOR

3411-3413- LS CRM TN LT BRN,(TN STN IN 80%) HD TO V/ BRITT, MD-F-XLN, RE-XLN MTRX, IMBD ANG LM GRNS IP, IMBD MD OOL IP, ABDT SMLL CALC XLS IN VUGS, BRIT YEL GLD FLO IN 40%, DLL YEL GLD FLO IN 60%, GD VIS INTER-OOL POR IP, GD VIS MICROVUG POR IN 40%, & FR INTER-XLN POR IP, EXCEL INST FL SH CUT TO EXCEL SLO STRM MLKY BLUE CUT, TN LCH ON DISH, LT OIL ODOR

3451- LS- WHT OFF WHT - ABDT SFT WHT GMMY CHLK, NO FLO ,NO VIS POR,NO VIS SHOW

LS- OFF WHT CRM BFF- HD DNS F-VF-XLN RE-XLN MTRX, SUCRO IP TO SLI TR S-CHLKY, NO FLO, NO VIS POR, NO VIS SHOW

SH- OFF WHT TO LT GY - V. SFT GMMY TXT

3476-3504- LS- WHT OFF WHT HD TT MD-XLN IP GRDNG TO V/ SFT CHLKY MTRX, GMMY, W/IMBD PYR, IMBD OPQUE WHT CHRT, NO FLO, NO VIS POR, NO VIS SHOW

ARBUCKLE 3505' - 1505'

DOLO- CRM TO TN, (TN OIL STN IN 10%) HD DNS IP TO BRITT, SUCRO MTRX, ABDT SMLL AND DOLO GRNS IP,FLDSPR IP,TR PYR IMBD IP, TR DOS IP, LT YEL MIN FLO THRU, NO VIS POR IP TO PR TO FR VIS INTER-XLN POR IN 50%, FR FL SH TO FR SLO STRM CUT IN 20%, NO CUT IN 80%, NO ODOR

DOLO- LT TN TN (SCAT BRN OIL STN IN 20%),HD DNS TR BRITT, FN SUCRO MTRX TO TR RE-XLN MTRX IP, MICRO OOL TO MICRO OOLMLD IP, DLL YEL FLO THRU, BRIT YEL GLD FLO IN 30%, FR FL SH CUT TO GD SLO STRM CUT IN 30%, NO ODOR, TN STN ON DISH

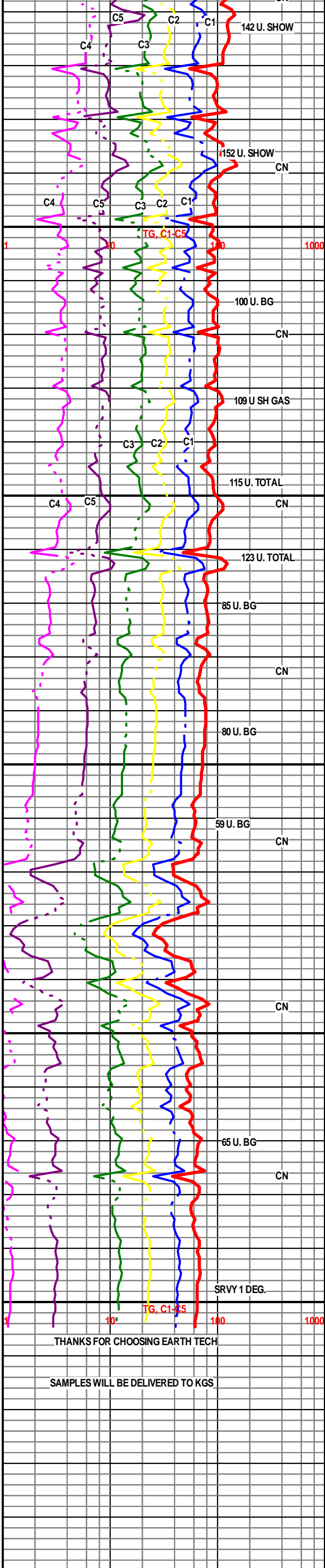
DOLO- TN CRM OFF WHT- TN OIL STN IN 60%, HD DNS TO BRITT, V/ CRS SUCRO MTRX TO FN XLN, RE-XLN, ABDT IMBD ANG DOLO GRNS THRU, TR LV OIL STN IP,SCAT IMBD SFT CHLK IP,BRIT YEL GLD FLO IN 10%, DLL YEL FLO IN 70%, PR TO TR GD INTER-XLN POR, TR VUG POR IP,EXCEL INST FL SH CUT IN 90%,OIL SHEEN ON SAMPLES

3552-DOLO- TN CRM OFF WHT- TN OIL STN IN 60%, HD DNS TO BRITT, V/ CRS SUCRO MTRX TO FN XLN, RE-XLN, ABDT IMBD ANG DOLO GRNS THRU, TR LV OIL STN IP,SCAT IMBD SFT CHLK IP,BRIT YEL GLD FLO IN 10%, DLL YEL FLO IN 70%, PR TO TR GD INTER-XLN POR, TR VUG POR IP,EXCEL INST FL SH CUT IN 90%,OIL SHEEN ON SAMPLES

3565- LS- CRM LT TN TN(SCAT LV OIL STN IN 60%) HD DNS TO TR BRITT, FN-XLN TO CRS SUCRO MTRX,ABDT IMBD ANG LM GRNS IP, TR OPQUE CHRT IMBD IP,BRIT YEL GLD FLO IN 10%, DLL YEL MIN FLO IN 80%, TR PR SCAT VUG POR IP TO PR TO TR FR INTER-XLN POR IP,V/ GD FL SH CUT IN 60% TO GD SLO STRM CUT IN 60%, NO ODOR WET , GD OIL ODOR DRY, TN LCH ON DISH,OIL SHEEN IN SAMPLES

3575 DOLO- OFF WHT CRM LT TN 9SCAT OILST AND SCT LV OIL STN IP) HD DNS TO BRITT,FN XLN TO CRS SUCRO MTRX, ABDT IMBD ANG DOLO GRNS, TR SCAT IMBD SFT CHLK, SCAT DOS THRU, PR TO FR INTER-XLN POR, GD FL SH CUT IN 40%, V/ GD SLO STRM CUT IN 40-50%, ,LT OIL SHEEN IN SAMPLES

3590-3605- DOLO WHT OFF WHT TN, HD DNS TO BRITT, FN-XLN TO V/F-XLN TO CRS SUCRO MTRX,ABDT SFT WHT CHLK , ABDT PYR CLSTRS,HVY TR FLDSPR SCAT THRU,TR CRS ANG QUARTZ GRNS IP, SLI TR DOS IP, DLL YEL MIN FLO THRU, PR TO GD VIS INTER-XLN POR TO NO POR IP, VIS CUT OR SHOW



R.T.D. @ 3 AM 8/16/2011
 CTCH 1 HR
 TOFL @ 4:30AM
 WEATHERFORD/LIBERAL

THANKS FOR CHOOSING EARTH TECH
 SAMPLES WILL BE DELIVERED TO KGS