



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	KIRBY KRIER 1-9
Doc ID	1062472

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

August 30, 2011

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

Re: ACO1
API 15-009-25547-00-00
KIRBY KRIER 1-9
SE/4 Sec.09-18S-11W
Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office at 303-831-4673.

Respectfully,
CLAYTON CAMOZZI



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

KANSAS CORPORATION COMMISSION 1056456
OIL & GAS CONSERVATION DIVISION

Form CP-4
March 2009

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

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

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

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

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

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

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

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

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

Submitted Electronically

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



QUALITY OILWELL CEMENTING, INC.

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

Date: 5/8/2011
 Invoice # 5000

P.O.#:

Due Date: 6/7/2011

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:
 KIRBY KRIER 1-9

Description of Work:
 SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	KIRBY KRIER 1-9
Deck	
AFE	
Approval	<i>LAG</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	180	\$ 2,318.00	Yes				
Bulk Truck Mat-Material Service Charge	190	\$ 401.11	No				
Calcium Chloride	7	\$ 278.27	Yes				
Pump Truck Mileage-Job to Nearest Camp	28	\$ 294.96	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$ 172.60	No				
Premium Gel (Bentonite)	3	\$ 51.55	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,480.35

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (672.05)

SubTotal for Taxable Items: \$ 2,250.65

SubTotal for Non-Taxable Items: \$ 738.38

Total: \$ 3,808.30

Tax: \$ 164.30

7.30% Barton County Sales Tax

Amount Due: \$ 3,972.59

Applied Payments:

Balance Due: \$ 3,972.59

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. 5000

Date	5-4-11	Sec.	9	Twp.	18	Range	11	County	Barton	State	Ks	On Location		Finish	9:00 PM
Lease	Kirby Krier			Well No.	1-9			Location	Claflin, Ks - S to 136 Hwy, Ks W						
Contractor	Royal Rig #2							Owner	S/Into w to Rig						
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.	317'			Charge To	Sam Gary Jr & Assoc.						
Csg.	8 3/8"			Depth	317'			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	180 sk Common 3% CC 2% (ex)						
Meas Line				Displace	19 BLS										

EQUIPMENT

Pumptrk	1	No.	Cementor		Common	180
			Helper	Eisco		
Bulktrk	10	No.	Driver	Matt	Poz. Mix	
			Driver			
Bulktrk		No.	Driver	Rick	Gel.	3
			Driver		Calcium	7

JOB SERVICES & REMARKS

Remarks	Cement did Circulate		Hulls	
Rat Hole			Salt	
Mouse Hole			Flowseal	
Centralizers			Kol-Seal	
Baskets			Mud CLR 48	
D/V or Port Collar			CFL-117 or CD110 CAF 38	
			Sand	
			Handling	190
			Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	28

X Signature *W. Budz*

Tax
Discount
Total Charge



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: 5/14/2011
 Invoice # 4905

P.O.#:

Due Date: 6/13/2011

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:
 KIRBY KRIER 1-9

Description of Work:
 PLUG JOB

DRLG COMP W/O LOE GG

Account	8200-144
Well/Prospect	KIRBY KRIER 1-9
Deck	
AFE	
Approval	SA
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 977.42	No				
Common-Class A	111	\$ 1,449.57	Yes				
Bulk Truck Matl-Material Service Charge	191	\$ 408.90	No				
POZ Mix-Standard	74	\$ 364.37	Yes				
Pump Truck Mileage-Job to Nearest Camp	28	\$ 299.12	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$ 175.04	No				
Flo Seal	50	\$ 107.04	Yes				
Premium Gel (Bentonite)	6	\$ 104.56	Yes				
Dry Hole Plug	1	\$ 59.94	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,945.96
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (591.89)

SubTotal for Taxable Items: \$ 1,772.66
 SubTotal for Non-Taxable Items: \$ 750.60

7.30% Barton County Sales Tax

Total: \$ 3,354.07
 Tax: \$ 129.40
Amount Due: \$ 3,483.47
Applied Payments:
Balance Due: \$ 3,483.47

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. 4905

Date	5-11-11	Sec.	9	Twp.	18	Range	11	County	Barton	State	Ks	On Location		Finish	10:30AM	
Lease	Kirby Krier			Well No.	1-9			Location	Clafin, Ks - S to 136 Hwy, 1/8 W							
Contractor	Royal Rig #2							Owner	3/5 - west to Rig							
Type Job	plug							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	7 7/8"			T.D.	3440'			Charge To	Sam Gary Jr & Assoc.							
Csg.				Depth				Street								
Tbg. Size	4 1/2" D.P.			Depth	3311'			City	State							
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered	185 sx 60/40 4% Gel 1/4# F.S.							
Meas Line				Displace	H2O/mud											
EQUIPMENT																
Pumptrk	1	No.	Cementer	Cisco			Helper	Common 111								
Bulktrk	10	No.	Driver	Matt			Driver	Poz. Mix 74								
Bulktrk	p.u.	No.	Driver	Rick			Driver	Gel. 6								
JOB SERVICES & REMARKS																
Remarks:	Cement did Circulate.							Calcium								
Rat Hole								Hulls								
Mouse Hole								Salt								
Centralizers								Flowseal	50#							
Baskets								Kol-Seal								
D/V or Port Collar								Mud CLR	48							
3311'	- 25 SX							CFL-117 or CD110 CAF	38							
615'	- 25 SX							Sand								
375'	- 80 SX							Handling	191							
40'	- 10 SX w/ 8 3/8 Plug							Mileage								
Rathole	- 30 SX							FLOAT EQUIPMENT								
Mousehole	- 15 SX							Guide Shoe								
185 SX	60/40 4% Gel 1/4# F.S.							Centralizer								
								Baskets								
								AFU Inserts								
								Float Shoe								
								Latch Down								
								1. Dry hole plug								
								Pumptrk Charge	plug							
								Mileage	28							
												Tax				
												Discount				
												Total Charge				
X Signature <i>Deby K</i>																



DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Clayton Camozzi

9/18S/11W-Barton

Kirby Krier 1-9

Start Date: 2011.05.08 @ 09:13:11

End Date: 2011.05.08 @ 15:11:41

Job Ticket #: 42878 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.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

ATTN: Clayton Camozzi

Job Ticket: 42878

DST#: 1

Test Start: 2011.05.08 @ 09:13:11

GENERAL INFORMATION:

Formation: **Lansing B-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:33:11

Time Test Ended: 15:11:41

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3040.00 ft (KB) To 3105.00 ft (KB) (TVD)

Reference Elevations: 1776.00 ft (KB)

Total Depth: 3105.00 ft (KB) (TVD)

1769.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 54.93 psig @ 3075.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.08

End Date: 2011.05.08

Last Calib.: 2011.05.08

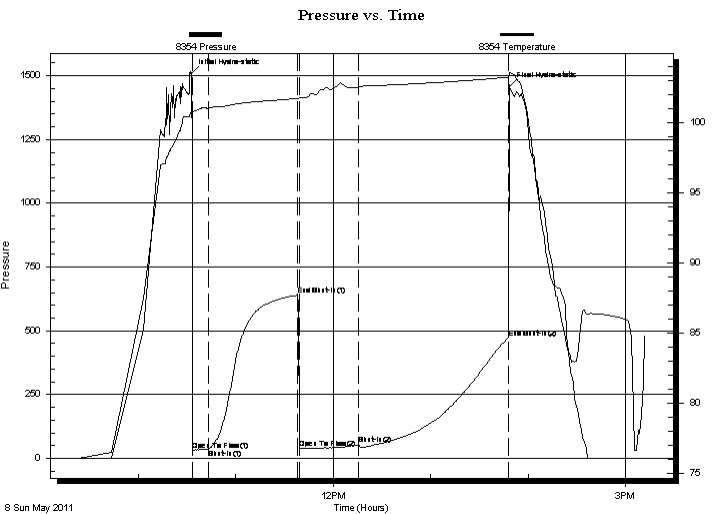
Start Time: 09:23:11

End Time: 15:11:41

Time On Btm: 2011.05.08 @ 10:32:31

Time Off Btm: 2011.05.08 @ 13:48:41

TEST COMMENT: IF-Weak surface blow .
ISI-No Return.
FF-Weak surface blow . Died @ 22 minutes.
FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1508.58	100.87	Initial Hydro-static
1	32.72	100.50	Open To Flow (1)
11	36.02	101.01	Shut-In(1)
66	640.12	101.71	End Shut-In(1)
67	38.20	101.74	Open To Flow (2)
104	54.93	102.47	Shut-In(2)
196	473.88	103.21	End Shut-In(2)
197	1458.95	103.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud/ With Oil spots	0.07
15.00	100% Mud	0.21
0.00	Sample- 2000 ML Mud with very few oil	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.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42878

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2011.05.08 @ 09:13:11

Tool Information

Drill Pipe:	Length: 3021.00 ft	Diameter: 3.80 inches	Volume: 42.38 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 2000.00 lb
			<u>Total Volume: 42.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3040.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8653	Fluid	3010.00	
Change Over Sub	1.00			3011.00	
Shut In Tool	5.00			3016.00	
Sampler	2.00			3018.00	
Hydraulic tool	5.00			3023.00	
Jars	5.00			3028.00	
Safety Joint	3.00			3031.00	
Packer	5.00			3036.00	30.00 Bottom Of Top Packer
Packer	4.00			3040.00	
Stubb	1.00			3041.00	
Perforations	1.00			3042.00	
Change Over Sub	1.00			3043.00	
Drill Pipe	31.00			3074.00	
Change Over Sub	1.00			3075.00	
Recorder	0.00	8354	Inside	3075.00	
Recorder	0.00	8520	Outside	3075.00	
Perforations	27.00			3102.00	
Bullnose	3.00			3105.00	65.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates Inc.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42878

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2011.05.08 @ 09:13:11

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:

bbbl

Water Loss: 8.78 in³

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	100%Mud/ With Oil spots	0.070
15.00	100% Mud	0.210
0.00	Sample- 2000 ML Mud with very few oil s	0.000

Total Length: 20.00 ft Total Volume: 0.280 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

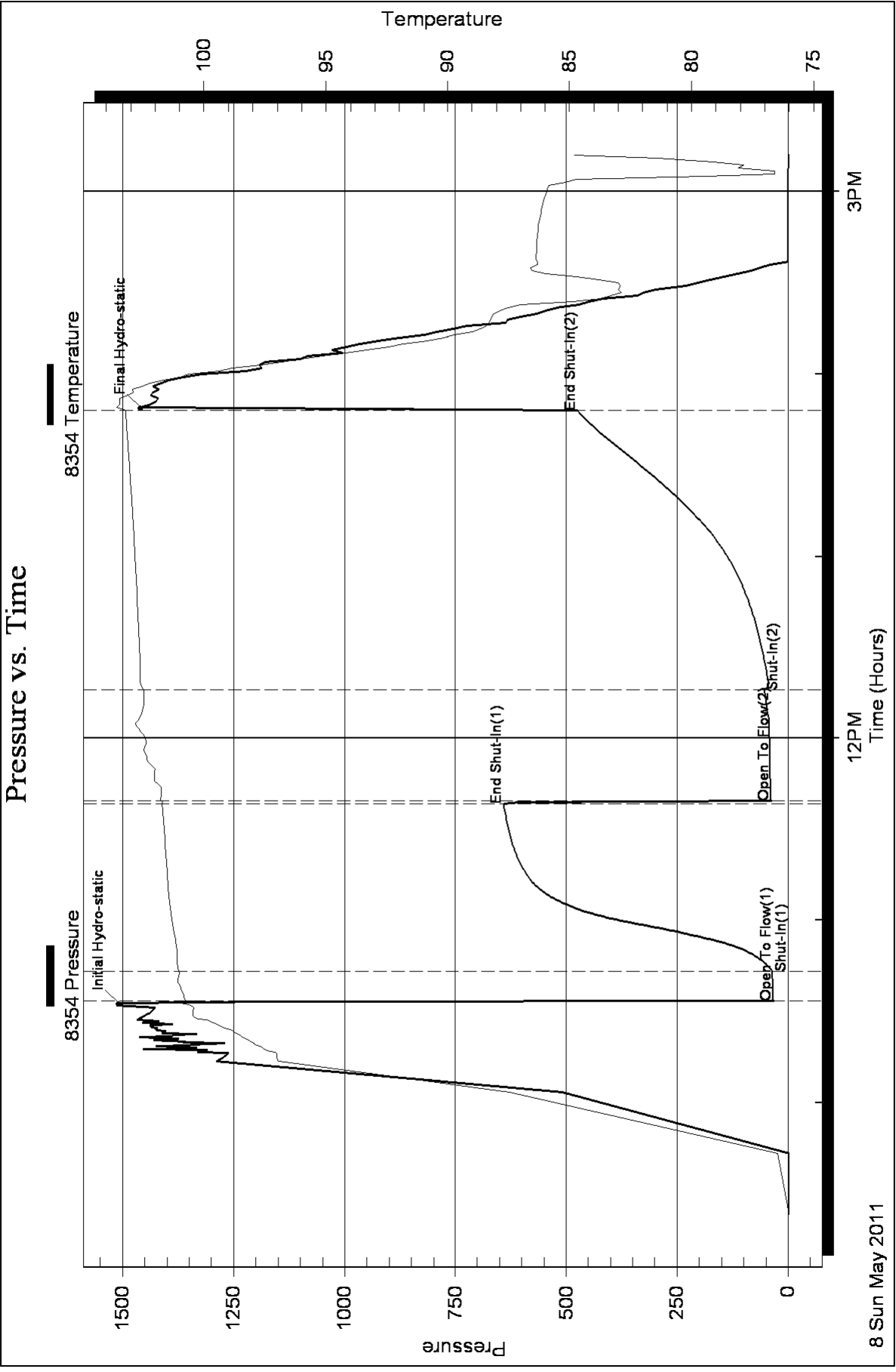
Serial #:

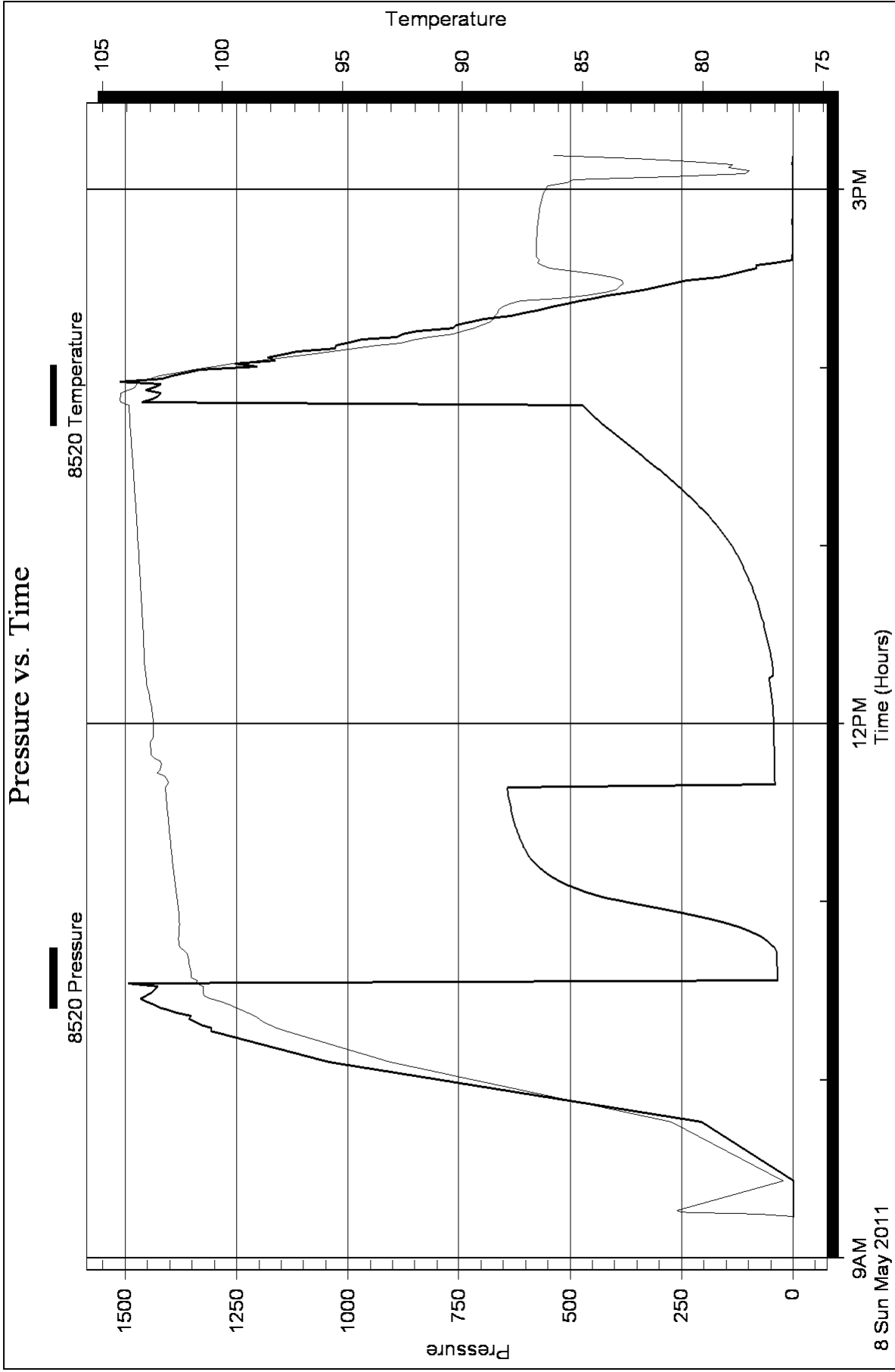
Laboratory Name:

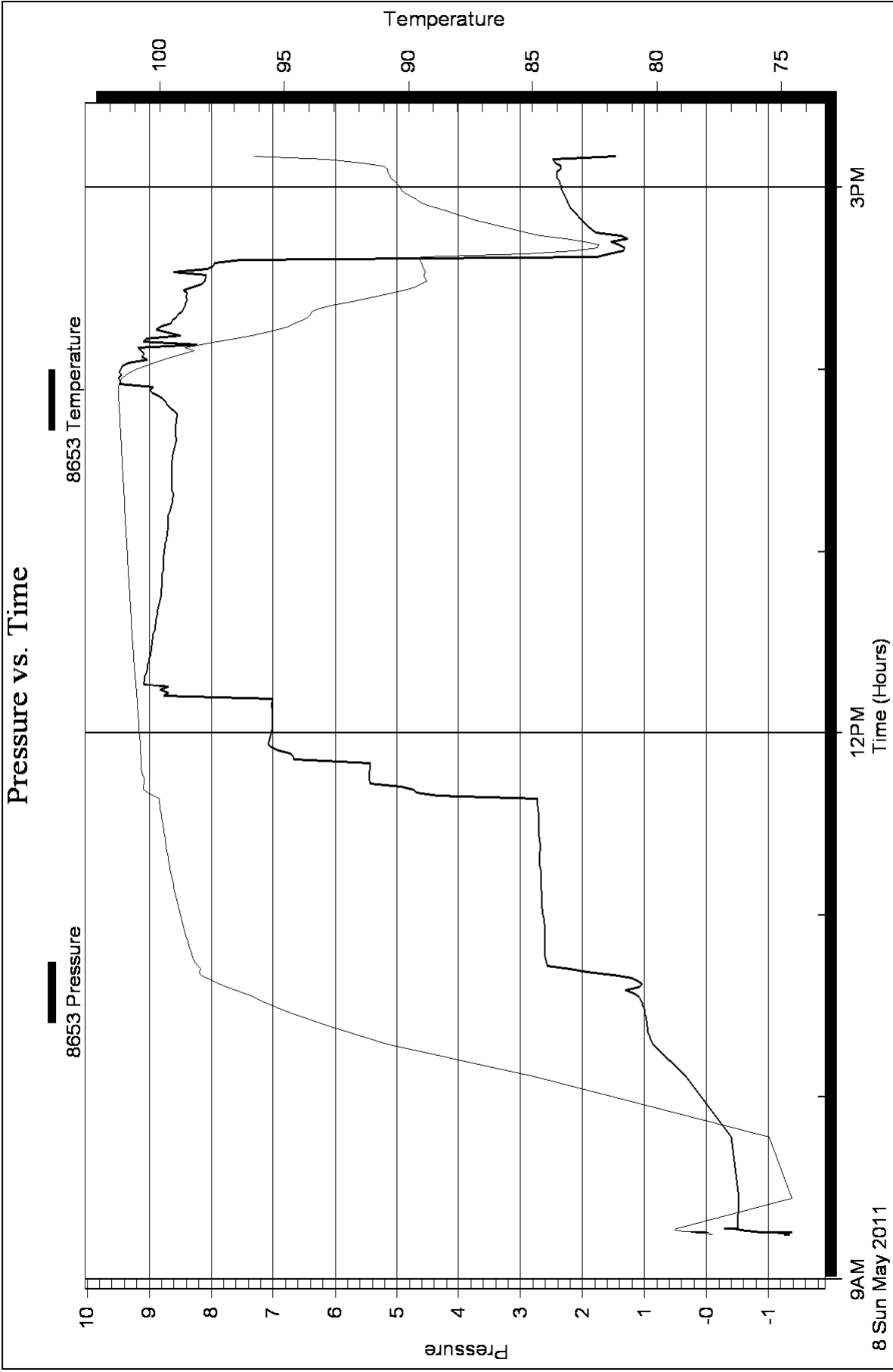
Laboratory Location:

Recovery Comments:

Pressure vs. Time

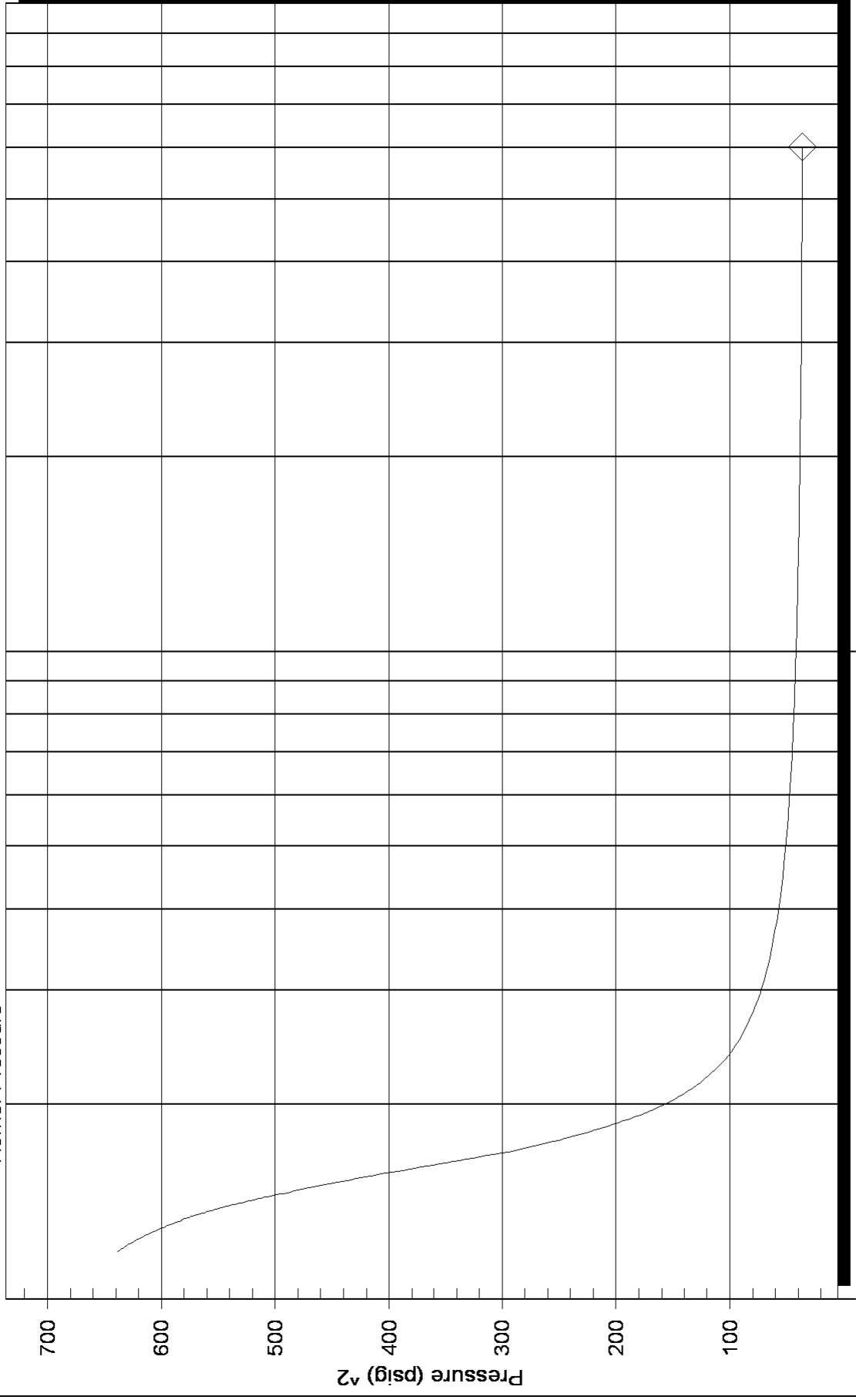






Homer Plot

Horner Pressure



Horner Time: (Twf + dt) / dt

Slope (m) : kpa/log cycle

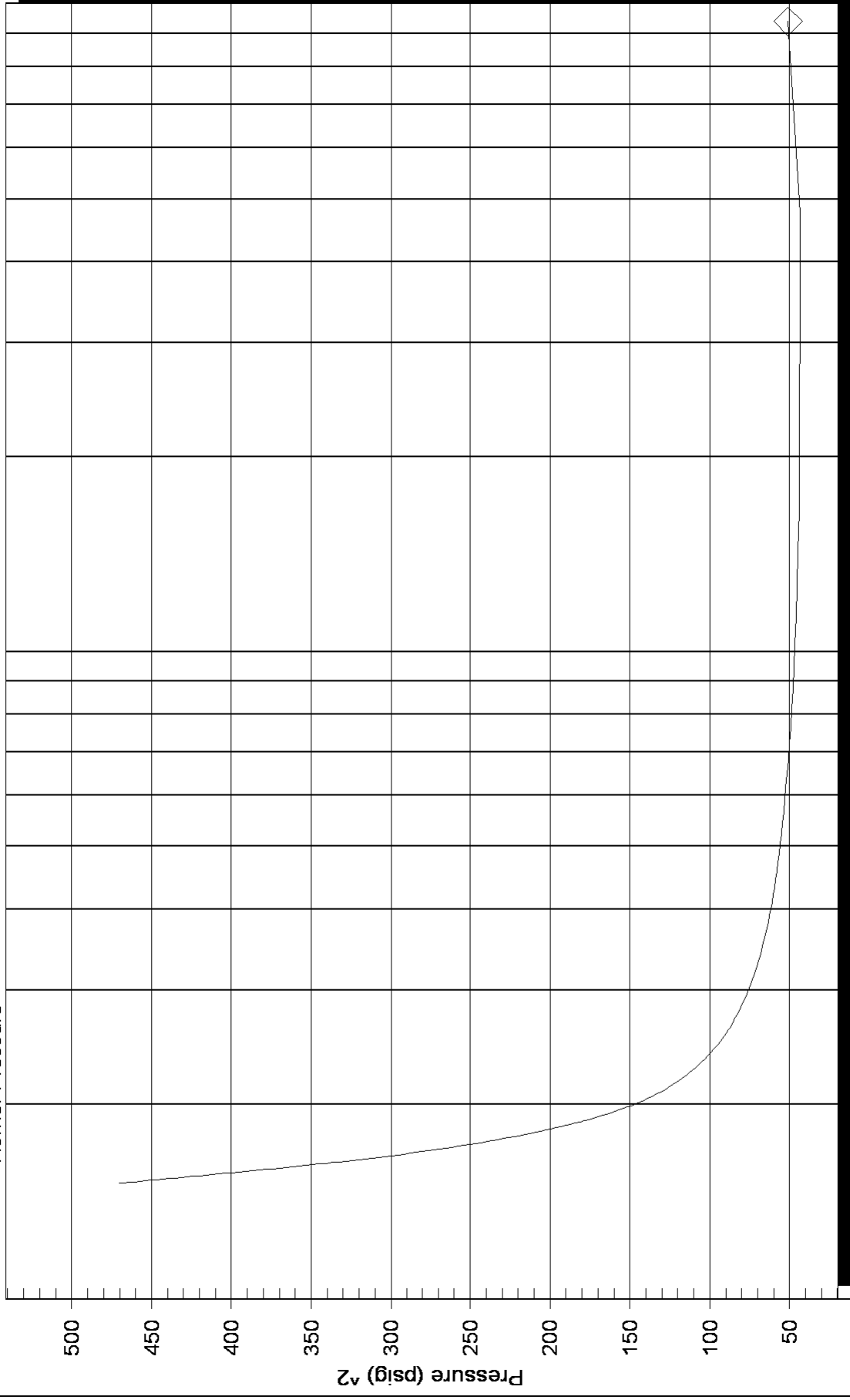
P* :

Serial Number: 8354 (Inside)

Flow Cycle: 1

Homer Plot

Horner Pressure



Horner Time: (Twf + dt) / dt

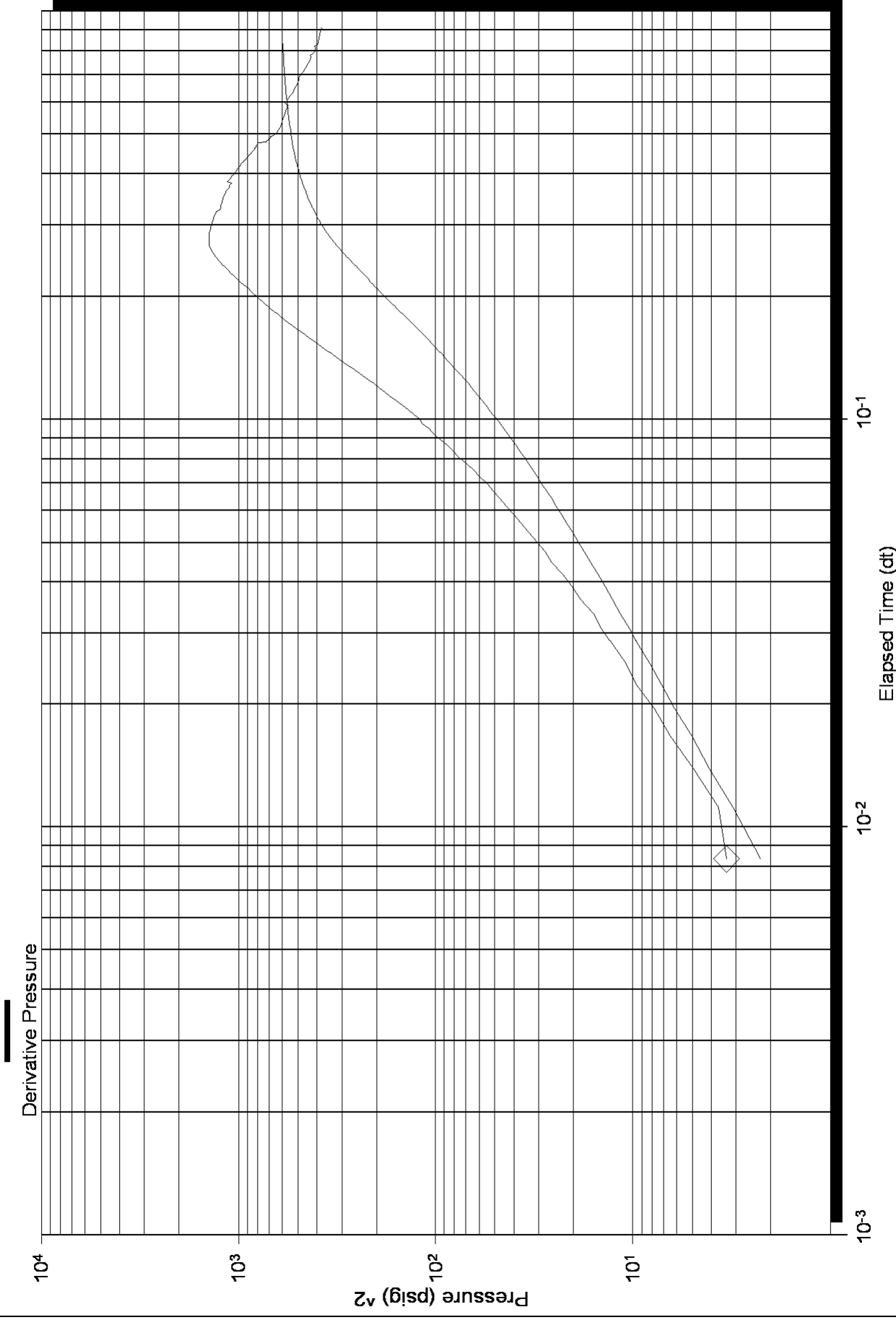
Slope (m) : kpa/log cycle

P* :

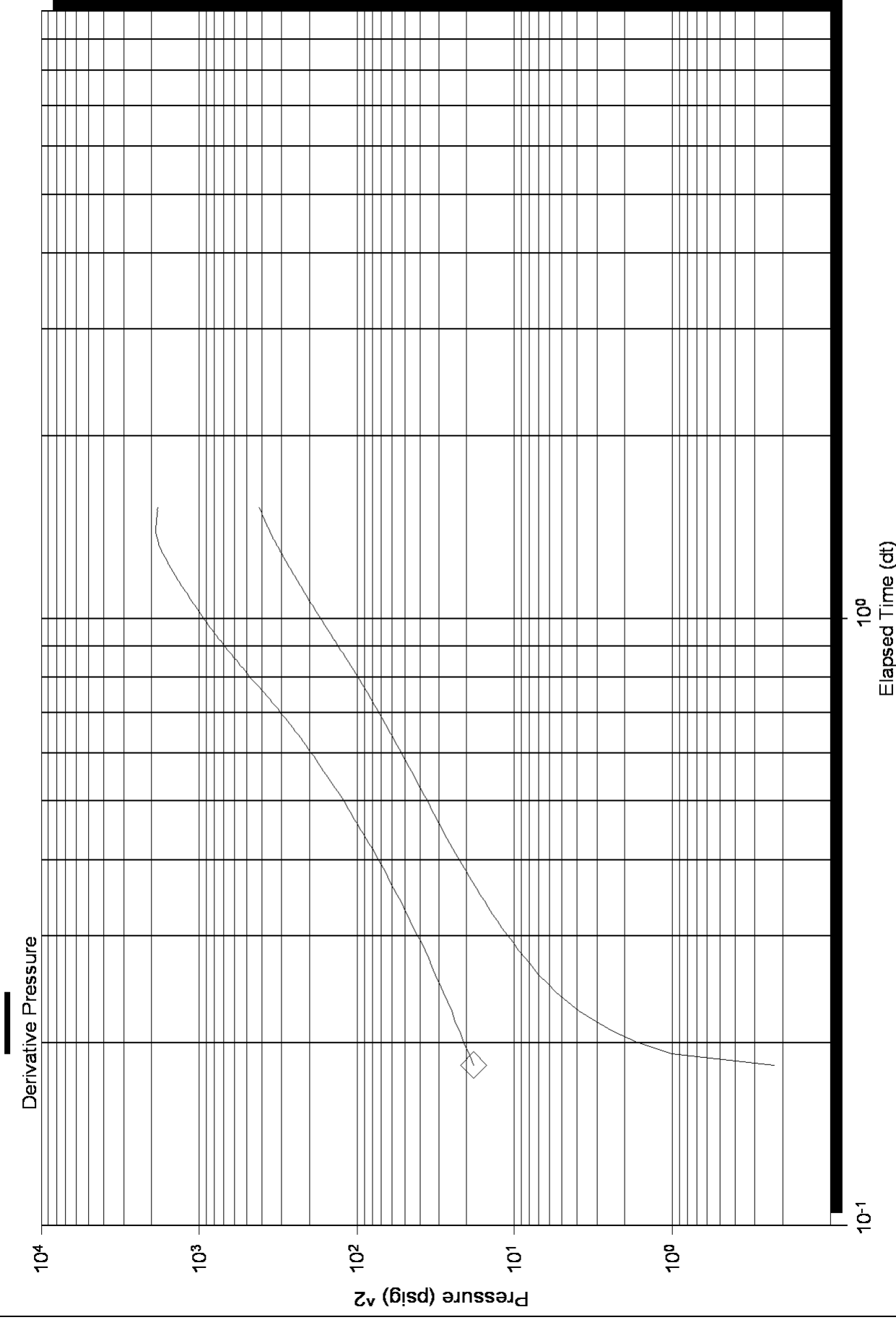
Serial Number: 8354 (Inside)

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Clayton Camozzi

9/18S/11W-Barton

Kirby Krier 1-9

Start Date: 2011.05.09 @ 00:36:33

End Date: 2011.05.09 @ 08:03:03

Job Ticket #: 42879 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.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42879

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.05.09 @ 00:36:33

GENERAL INFORMATION:

Formation: **Lansing I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:14:53

Time Test Ended: 08:03:03

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3175.00 ft (KB) To 3210.00 ft (KB) (TVD)

Reference Elevations: 1776.00 ft (KB)

Total Depth: 3210.00 ft (KB) (TVD)

1769.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 27.80 psig @ 3177.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.09

End Date:

2011.05.09

Last Calib.:

2011.05.09

Start Time:

00:46:33

End Time:

08:03:03

Time On Btm:

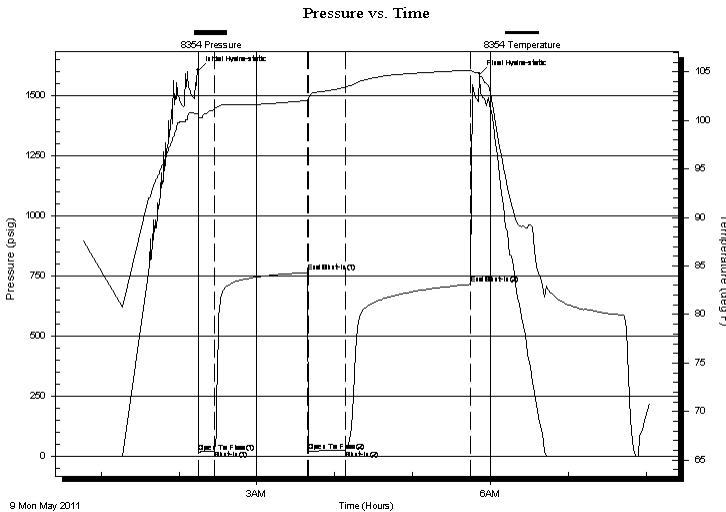
2011.05.09 @ 02:14:43

Time Off Btm:

2011.05.09 @ 05:51:33

TEST COMMENT: IF-Very weak building blow . Built to 1/2 inch.
ISI-No Return.
FF-Very weak surface blow @ 19 minutes.
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.20	100.64	Initial Hydro-static
1	18.75	100.04	Open To Flow (1)
13	24.30	101.24	Shut-In(1)
85	764.67	102.06	End Shut-In(1)
86	23.28	102.23	Open To Flow (2)
114	27.80	103.46	Shut-In(2)
210	715.00	105.15	End Shut-In(2)
217	1588.70	104.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100%Mud	0.28
		0.00
		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.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42879

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.05.09 @ 00:36:33

Tool Information

Drill Pipe:	Length: 3180.00 ft	Diameter: 3.80 inches	Volume: 44.61 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 2000.00 lb
			<u>Total Volume: 44.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3175.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8653	Fluid	3147.00	
Change Over Sub	1.00			3148.00	
Shut In Tool	5.00			3153.00	
Hydraulic tool	5.00			3158.00	
Jars	5.00			3163.00	
Safety Joint	3.00			3166.00	
Packer	5.00			3171.00	28.00 Bottom Of Top Packer
Packer	4.00			3175.00	
Stubb	1.00			3176.00	
Perforations	1.00			3177.00	
Recorder	0.00	8354	Inside	3177.00	
Recorder	0.00	8520	Outside	3177.00	
Perforations	30.00			3207.00	
Bullnose	3.00			3210.00	35.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates Inc.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42879

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.05.09 @ 00:36:33

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:

40000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.19 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100%Mud	0.281
		0.000
		0.000

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

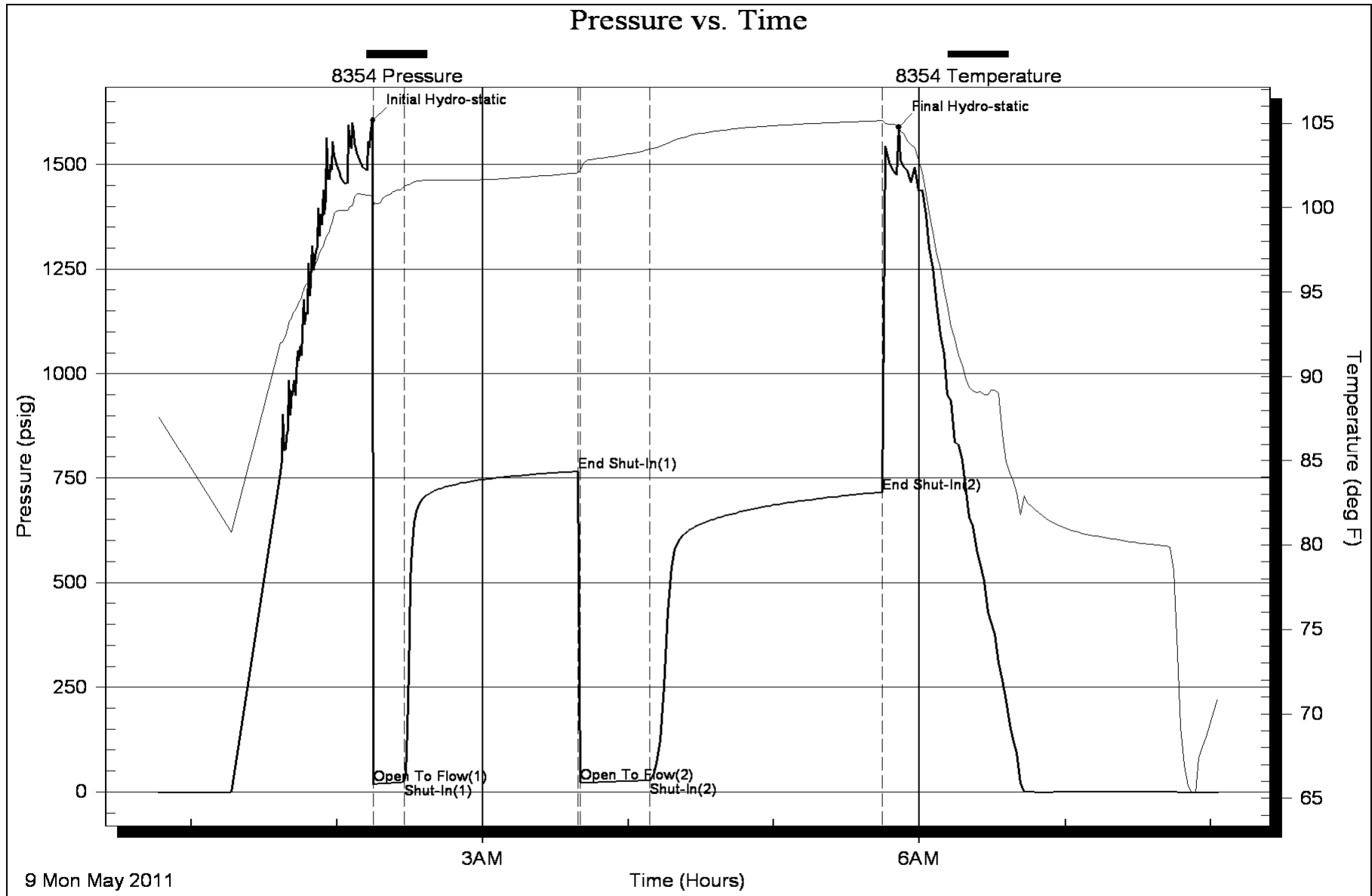
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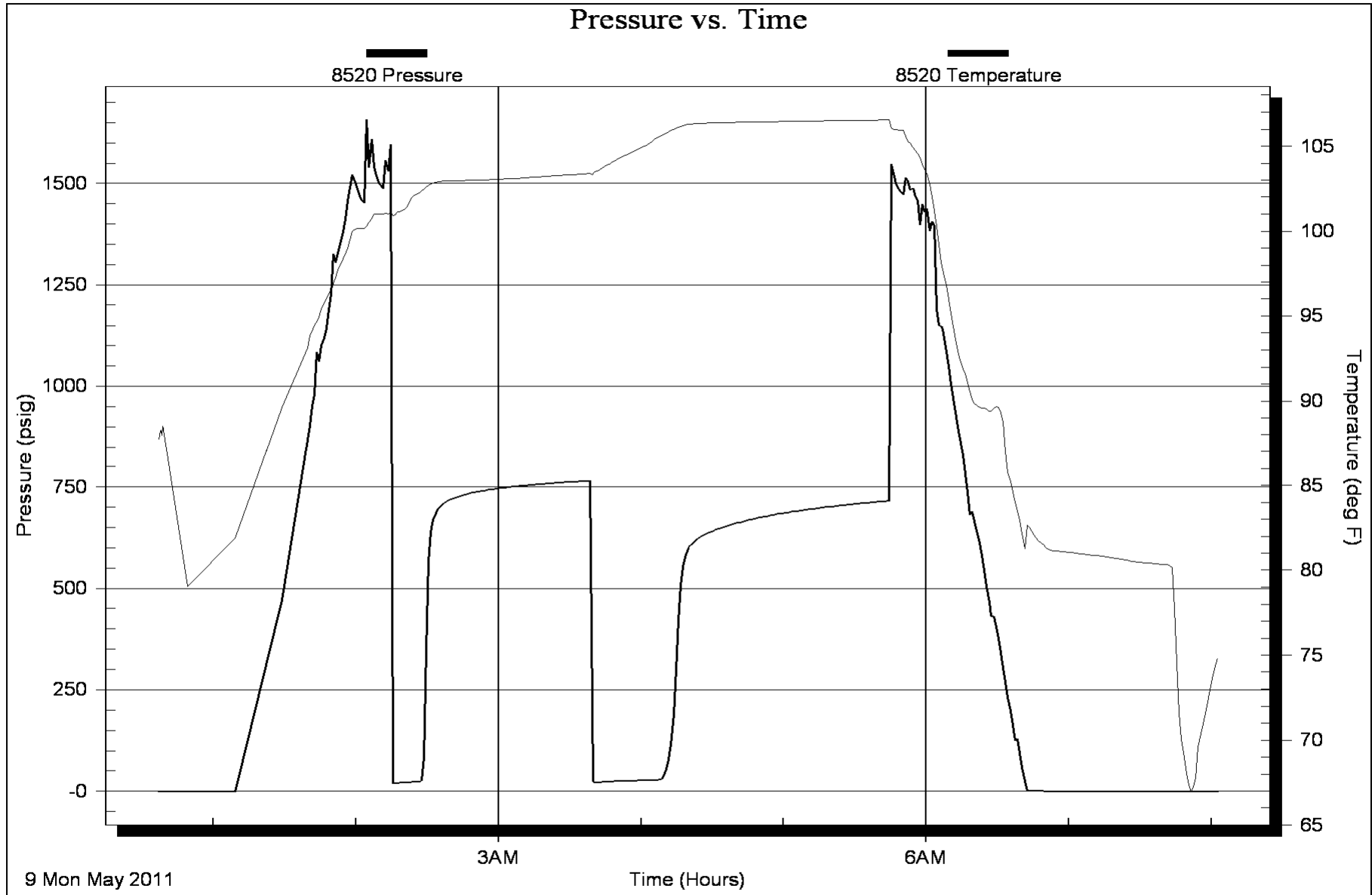
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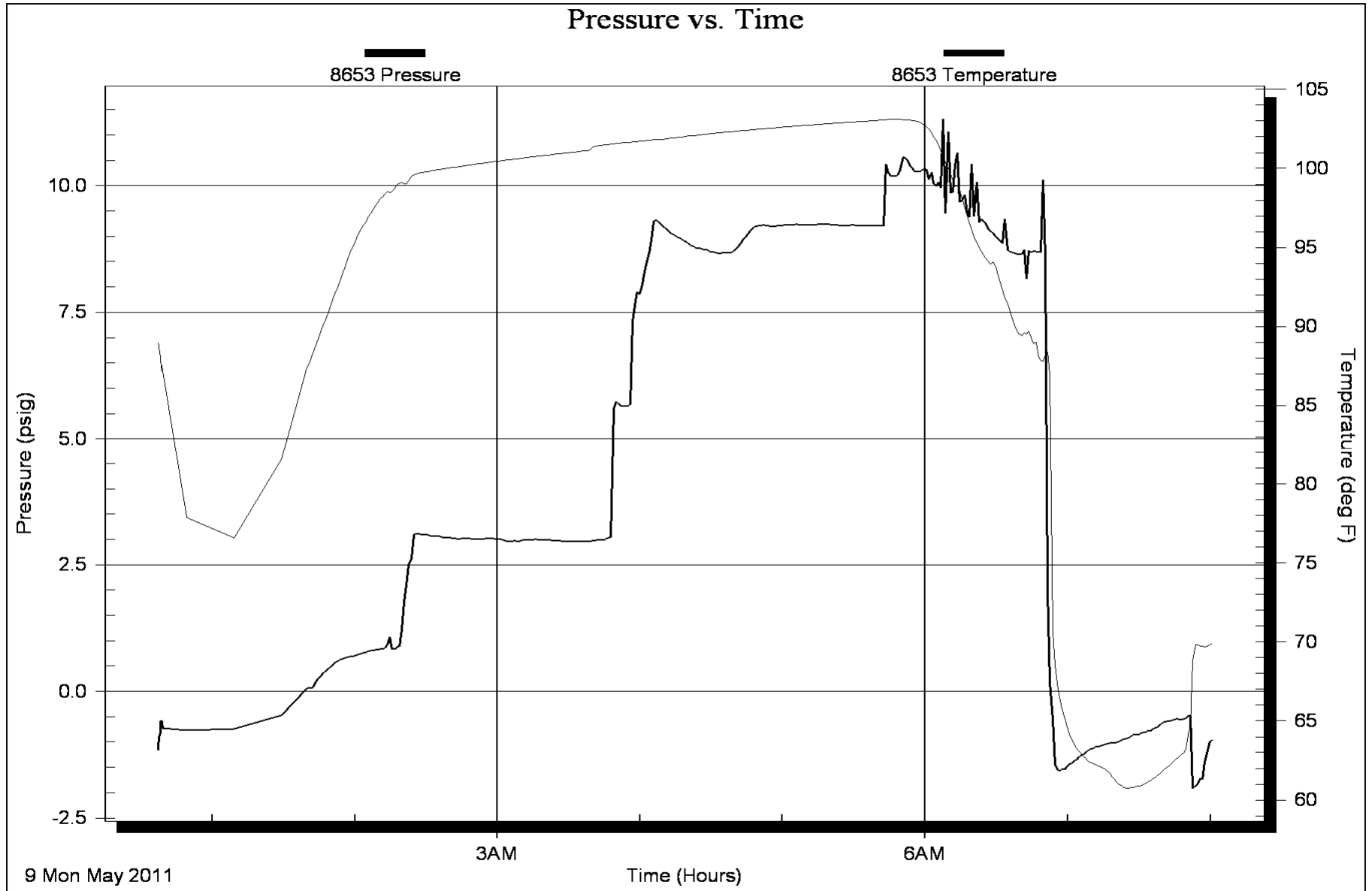
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Laboratory Location:

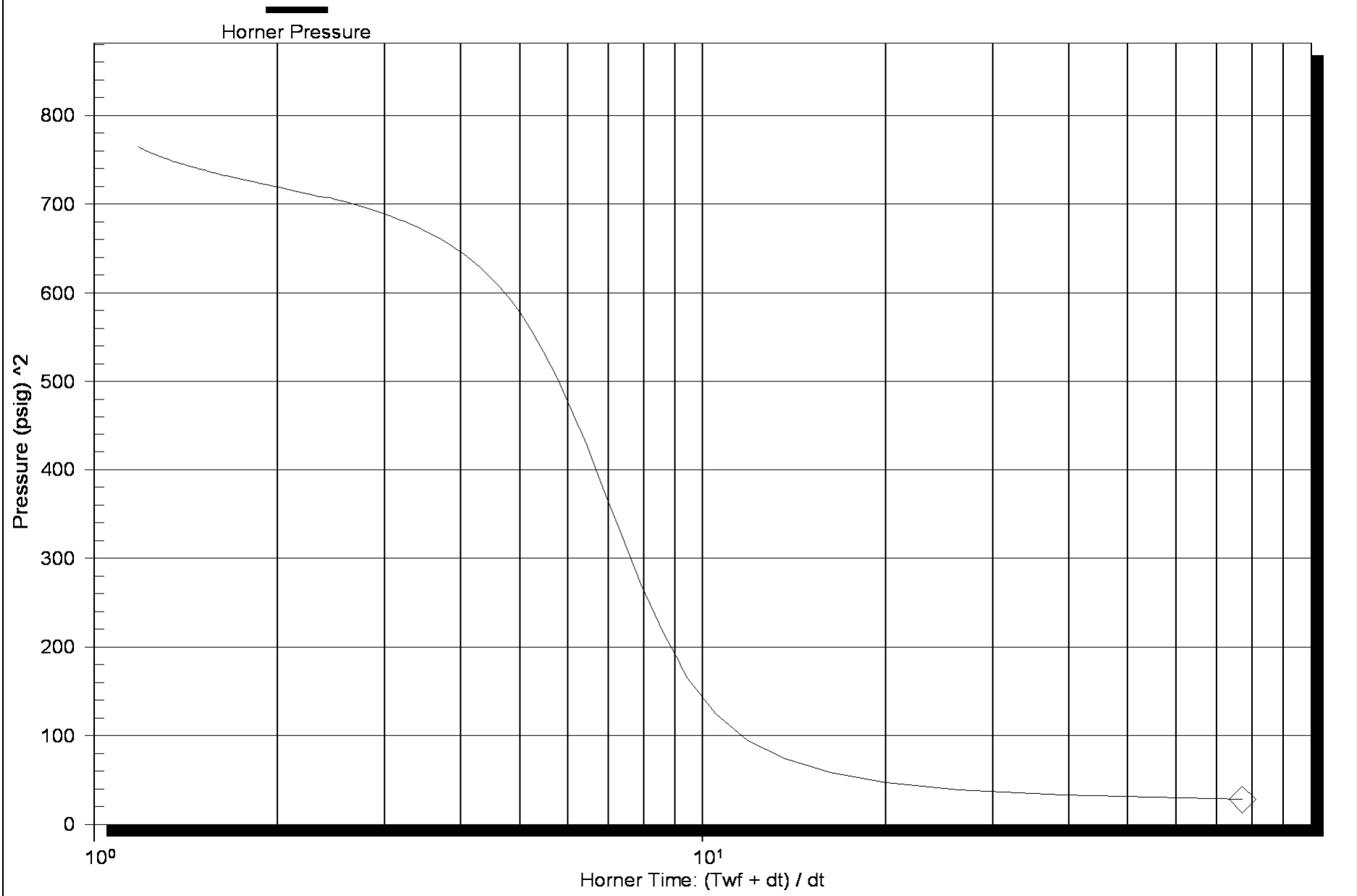
Recovery Comments: Sampler-75%Water/25%Mud- Rw .191 @ 67 = 40000 chloride 1600 ML water/ 400 ML mud-325# Pressure



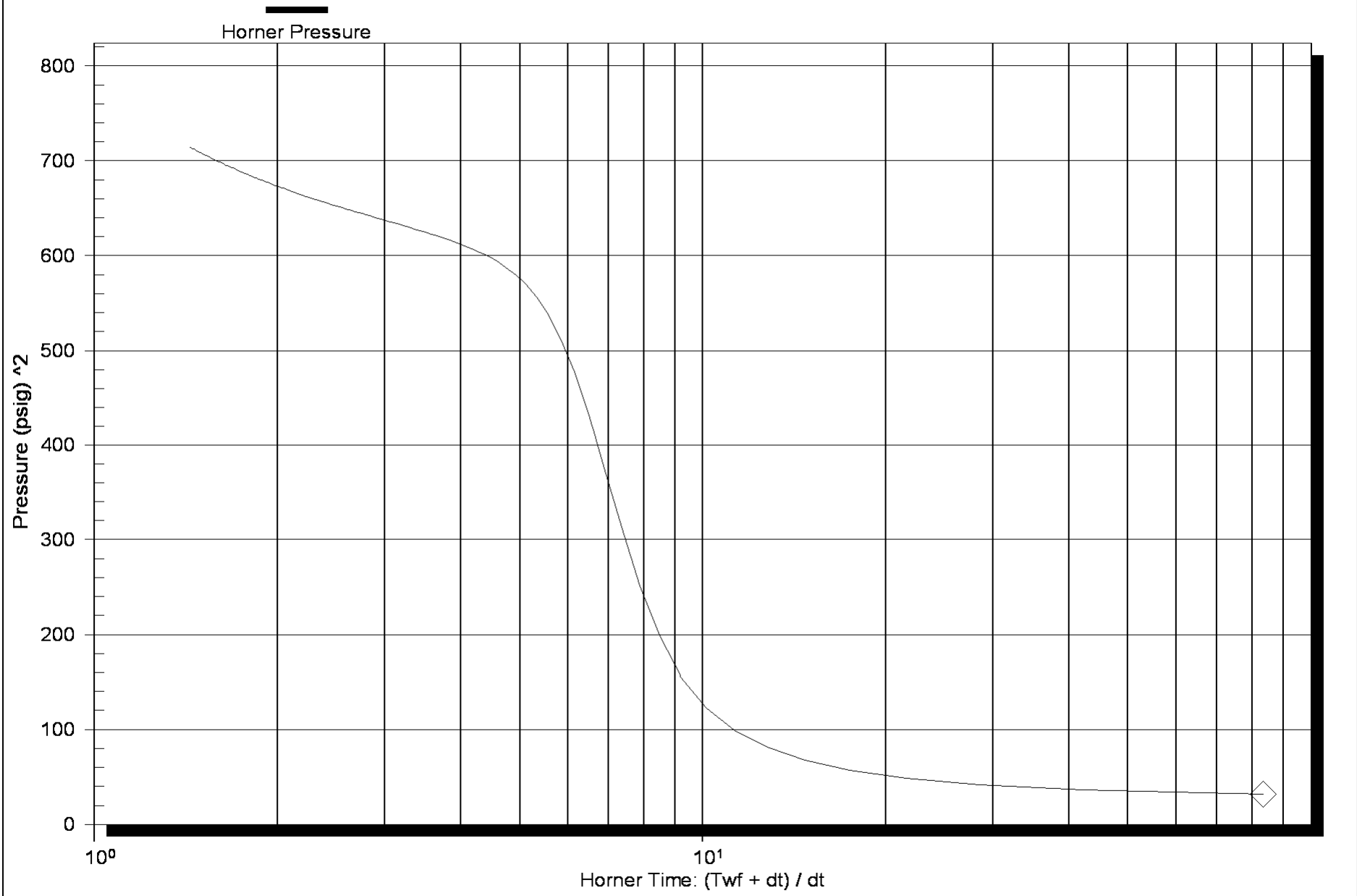




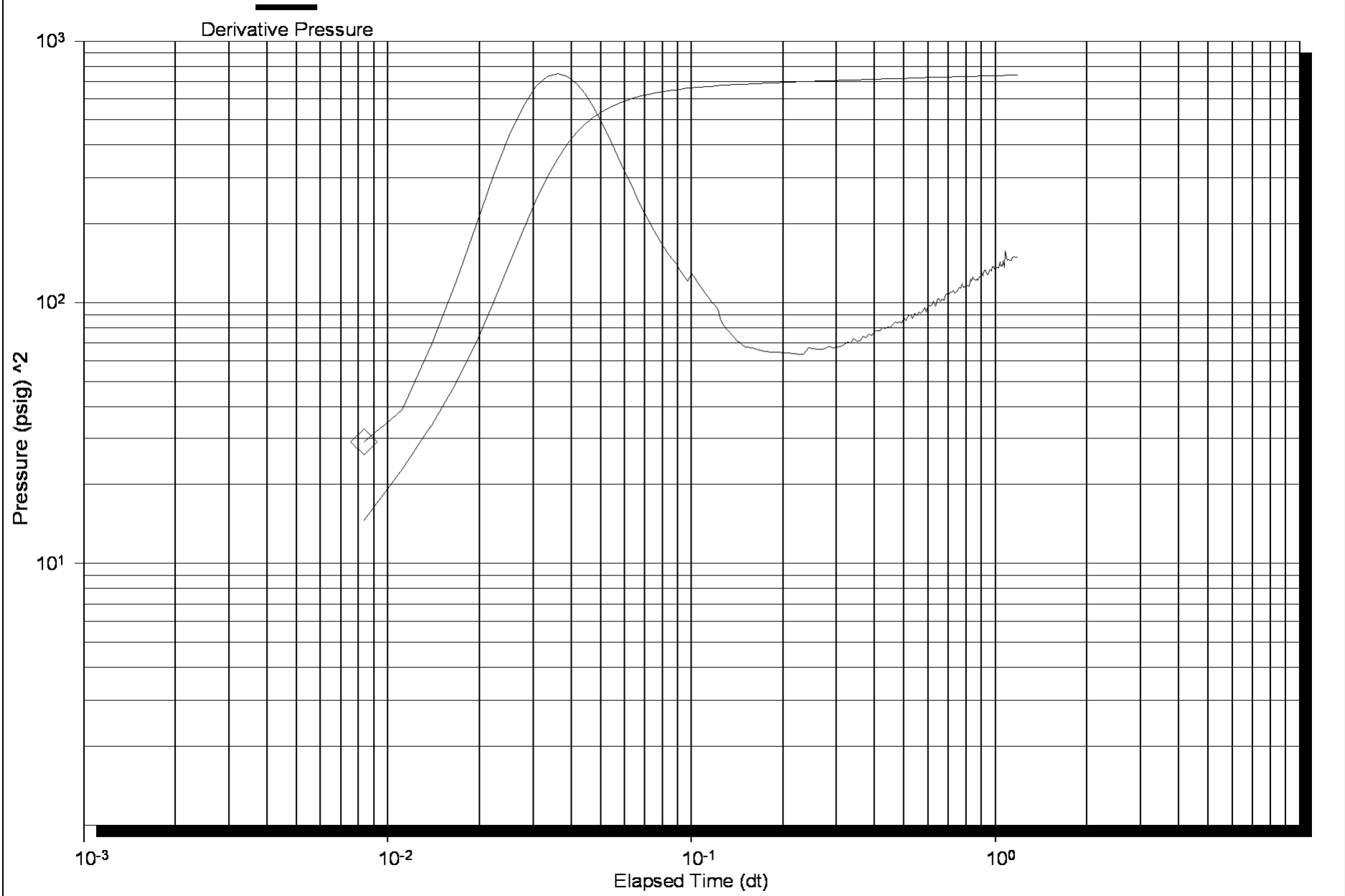
Horner Plot

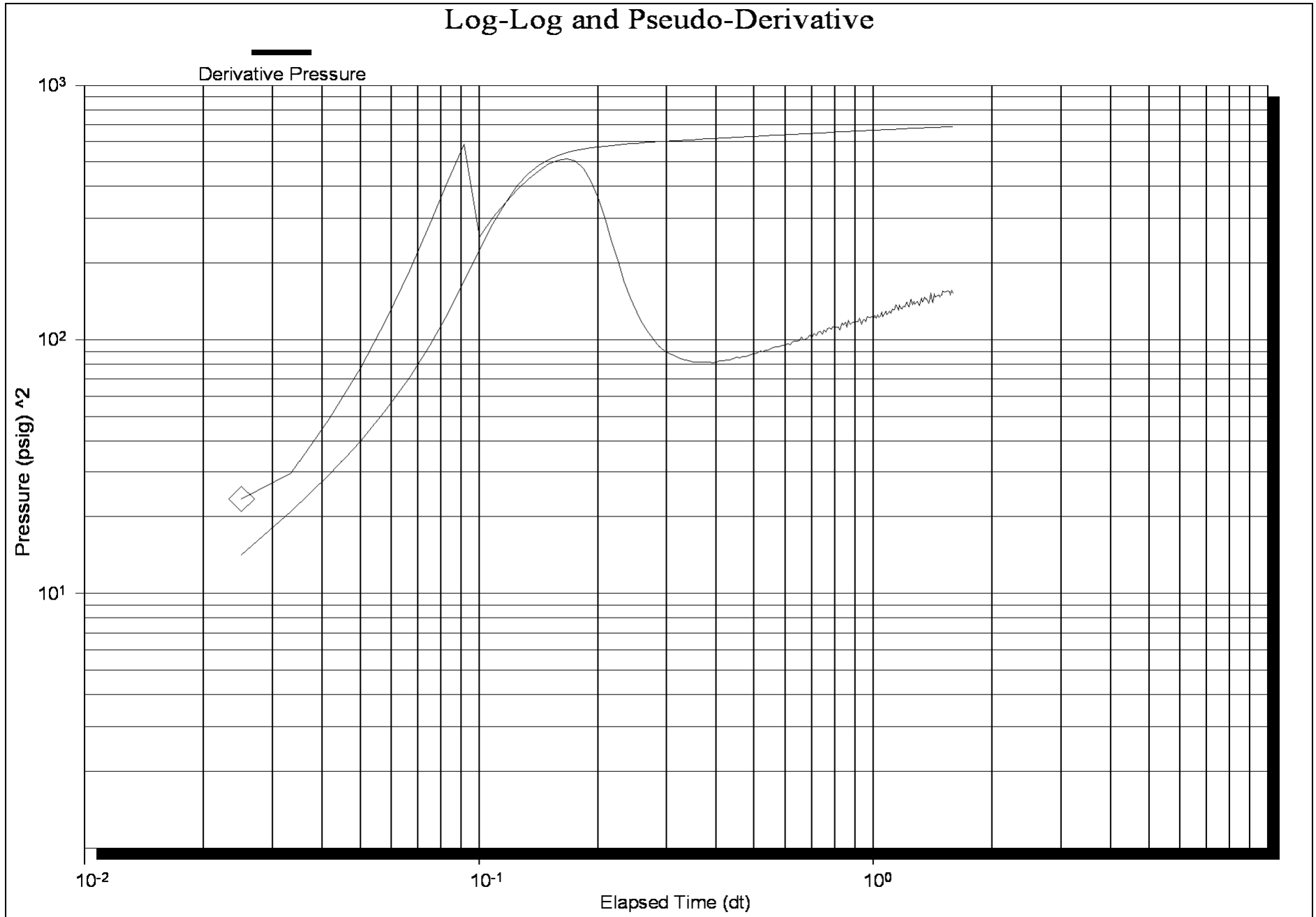


Horner Plot



Log-Log and Pseudo-Derivative







DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Clayton Camozzi

9/18S/11W-Barton

Kirby Krier 1-9

Start Date: 2011.05.09 @ 22:55:59

End Date: 2011.05.10 @ 06:17:59

Job Ticket #: 42880 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.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

ATTN: Clayton Camozzi

Job Ticket: 42880

DST#: 3

Test Start: 2011.05.09 @ 22:55:59

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:22:49

Time Test Ended: 06:17:59

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3303.00 ft (KB) To 3341.00 ft (KB) (TVD)

Reference Elevations: 1776.00 ft (KB)

Total Depth: 3341.00 ft (KB) (TVD)

1769.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 987.18 psig @ 3305.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.09 End Date: 2011.05.10

Last Calib.: 2011.05.10

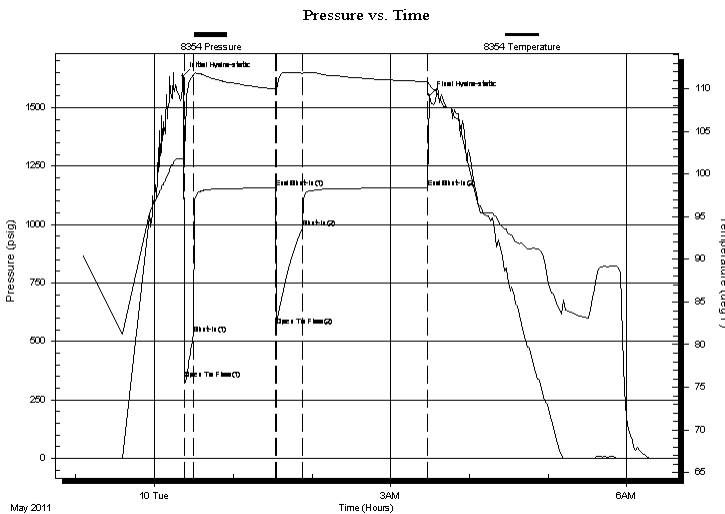
Start Time: 23:05:59 End Time: 06:17:59

Time On Btm: 2011.05.10 @ 00:21:19

Time Off Btm: 2011.05.10 @ 03:29:29

TEST COMMENT: IF-Strong building blow . BOB in 30 seconds.
ISI-No Return.
FF-Strong building blow . BOB in 30 seconds.
FSI-No Return. Time intervals- 10-60-20-90

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1633.83	101.80	Initial Hydro-static
2	340.85	101.46	Open To Flow (1)
9	531.19	111.62	Shut-In(1)
72	1155.59	110.03	End Shut-In(1)
72	568.19	109.81	Open To Flow (2)
92	987.18	111.85	Shut-In(2)
187	1156.29	110.86	End Shut-In(2)
189	1553.10	110.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1271.00	95%Water/5%Mud	17.83
682.00	70%Water/30%Mud	9.57
372.00	65%Mud/35%Water	5.22

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates Inc.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42880

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2011.05.09 @ 22:55:59

Tool Information

Drill Pipe:	Length: 3308.00 ft	Diameter: 3.80 inches	Volume: 46.40 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 2000.00 lb
			<u>Total Volume: 46.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3303.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8653	Fluid	3275.00	
Change Over Sub	1.00			3276.00	
Shut In Tool	5.00			3281.00	
Hydraulic tool	5.00			3286.00	
Jars	5.00			3291.00	
Safety Joint	3.00			3294.00	
Packer	5.00			3299.00	28.00 Bottom Of Top Packer
Packer	4.00			3303.00	
Stubb	1.00			3304.00	
Perforations	1.00			3305.00	
Recorder	0.00	8354	Inside	3305.00	
Recorder	0.00	8520	Outside	3305.00	
Perforations	33.00			3338.00	
Bullnose	3.00			3341.00	38.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates Inc.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42880

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2011.05.09 @ 22:55:59

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:

19000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 37.92 in³

Gas Cushion Type:

Resistivity: 0.37 ohm.m

Gas Cushion Pressure:

psig

Salinity: 42000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1271.00	95%Water/5%Mud	17.829
682.00	70%Water/30%Mud	9.567
372.00	65%Mud/35%Water	5.218

Total Length: 2325.00 ft Total Volume: 32.614 bbl

Num Fluid Samples: 0

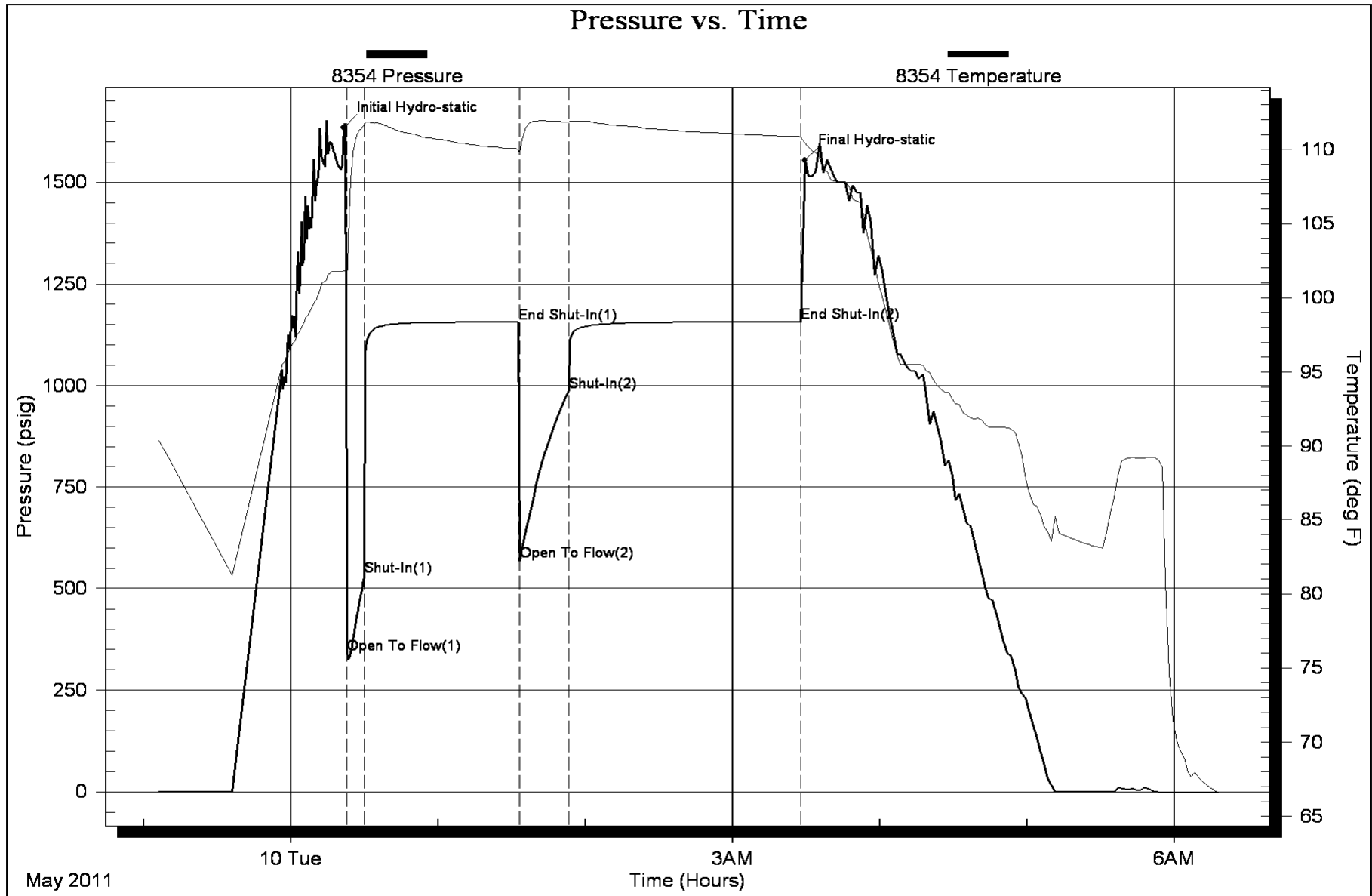
Num Gas Bombs: 0

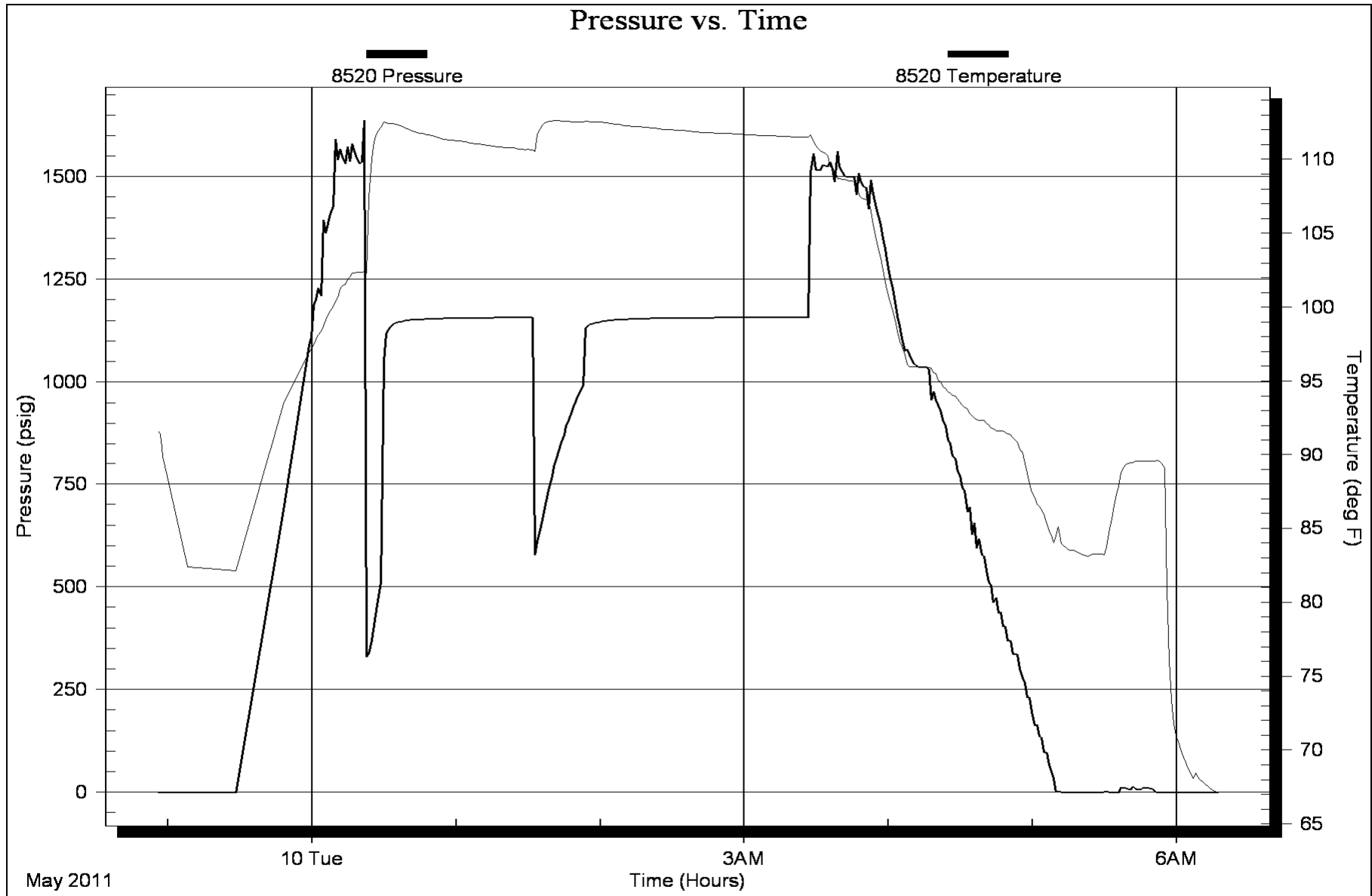
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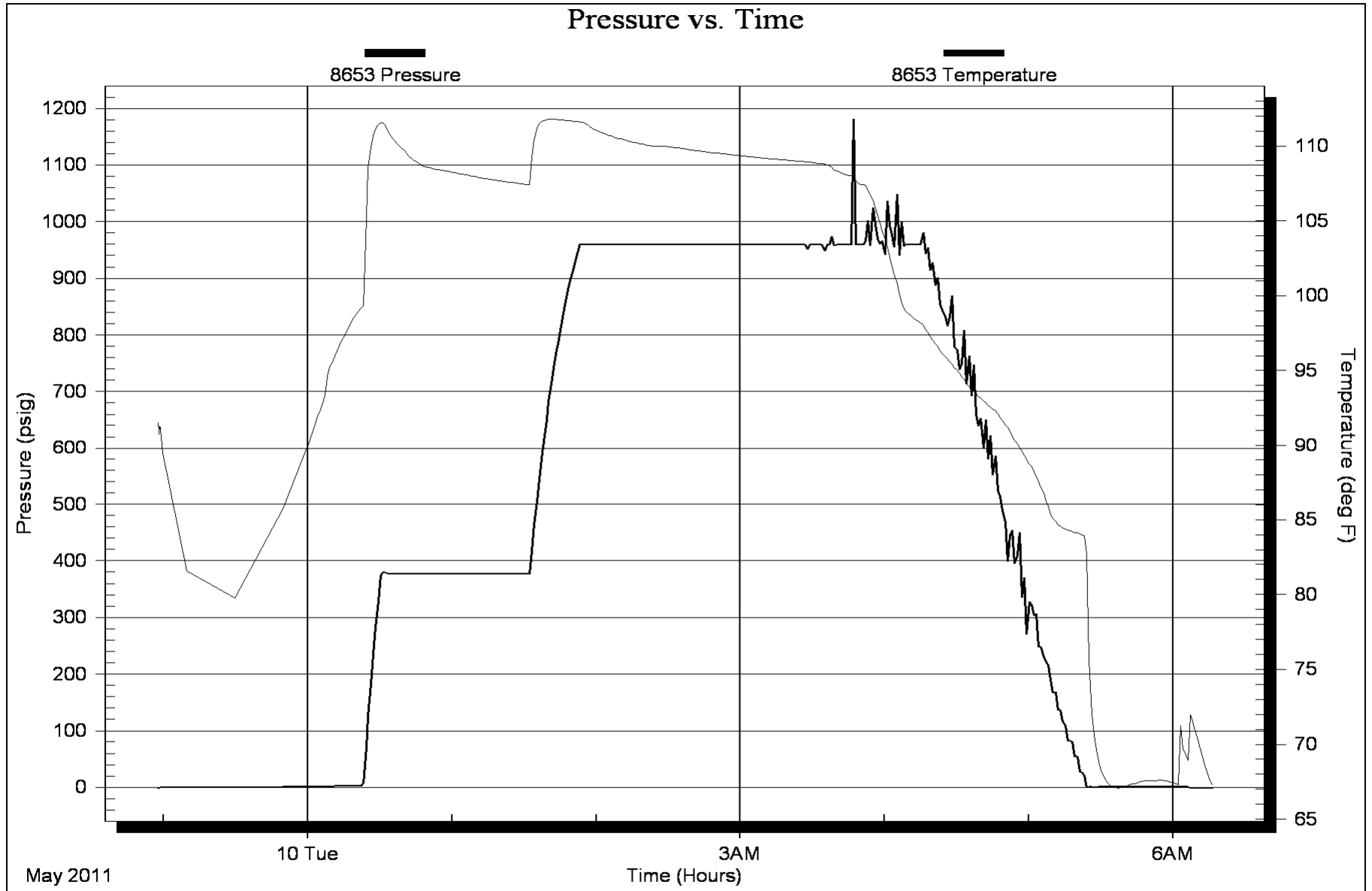
Laboratory Name:

Laboratory Location:

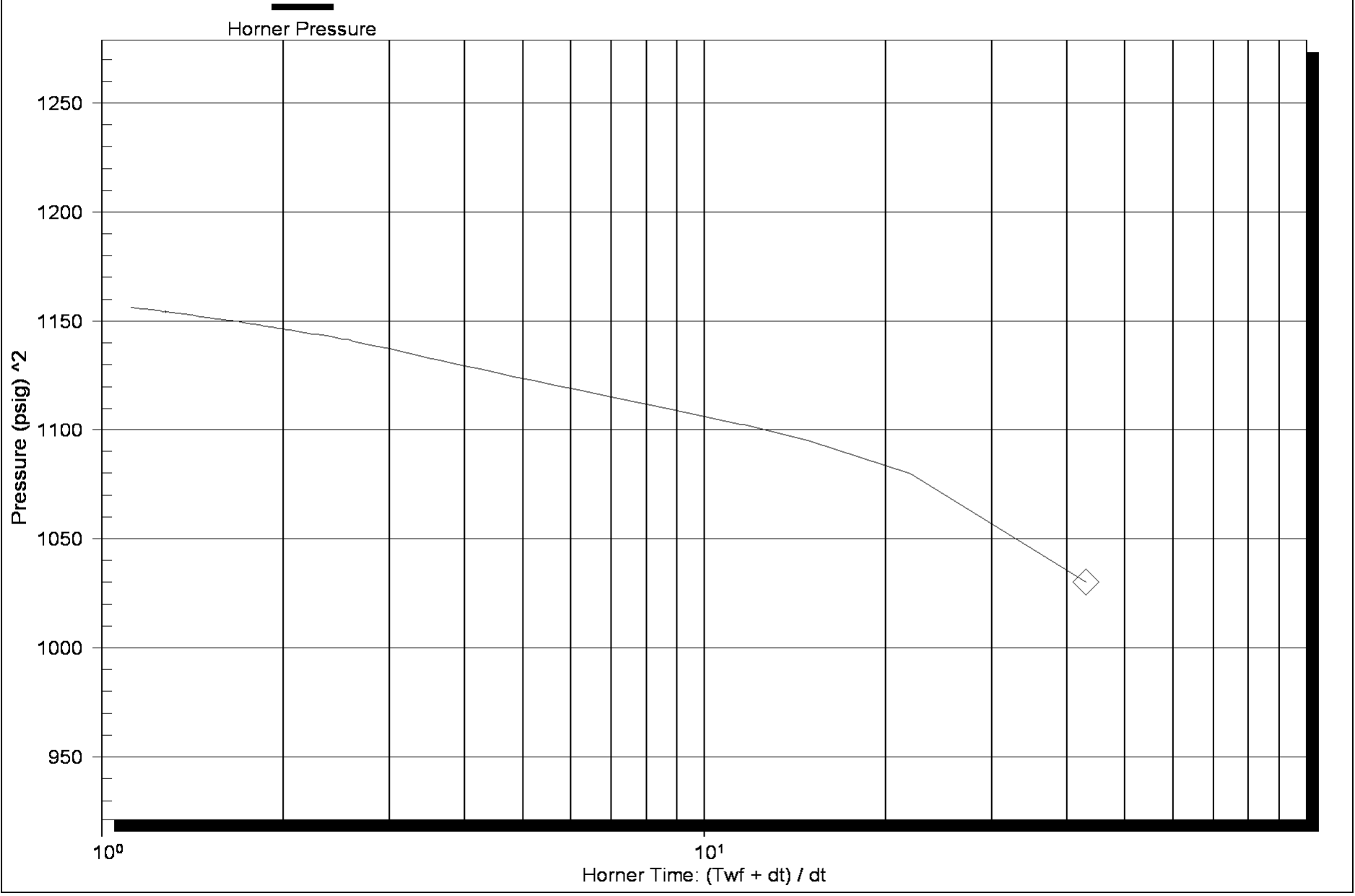
Recovery Comments: Sampler- 2000 ML Water. RW=.340 @ 69 = 19500 Chlorides.



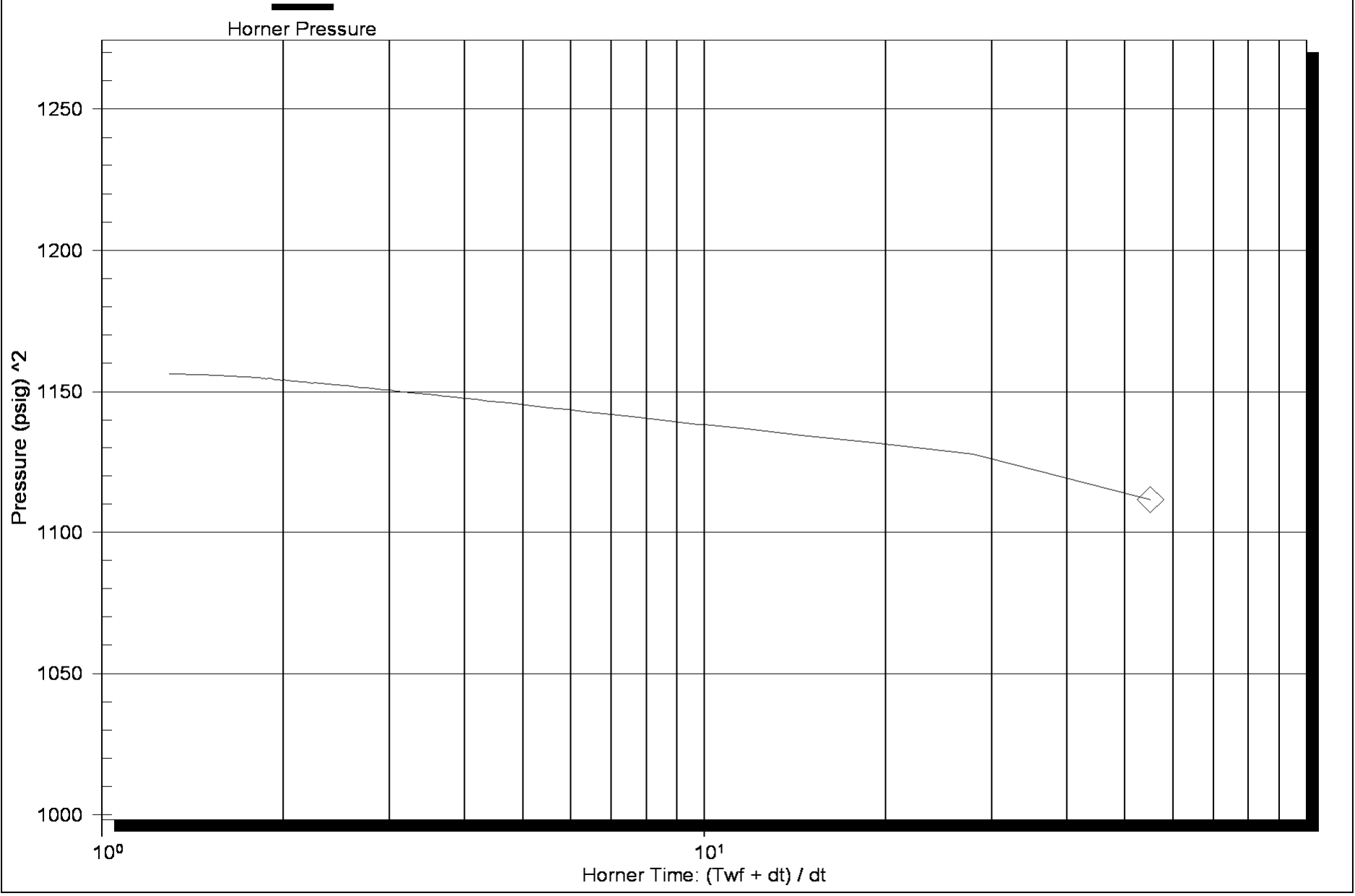




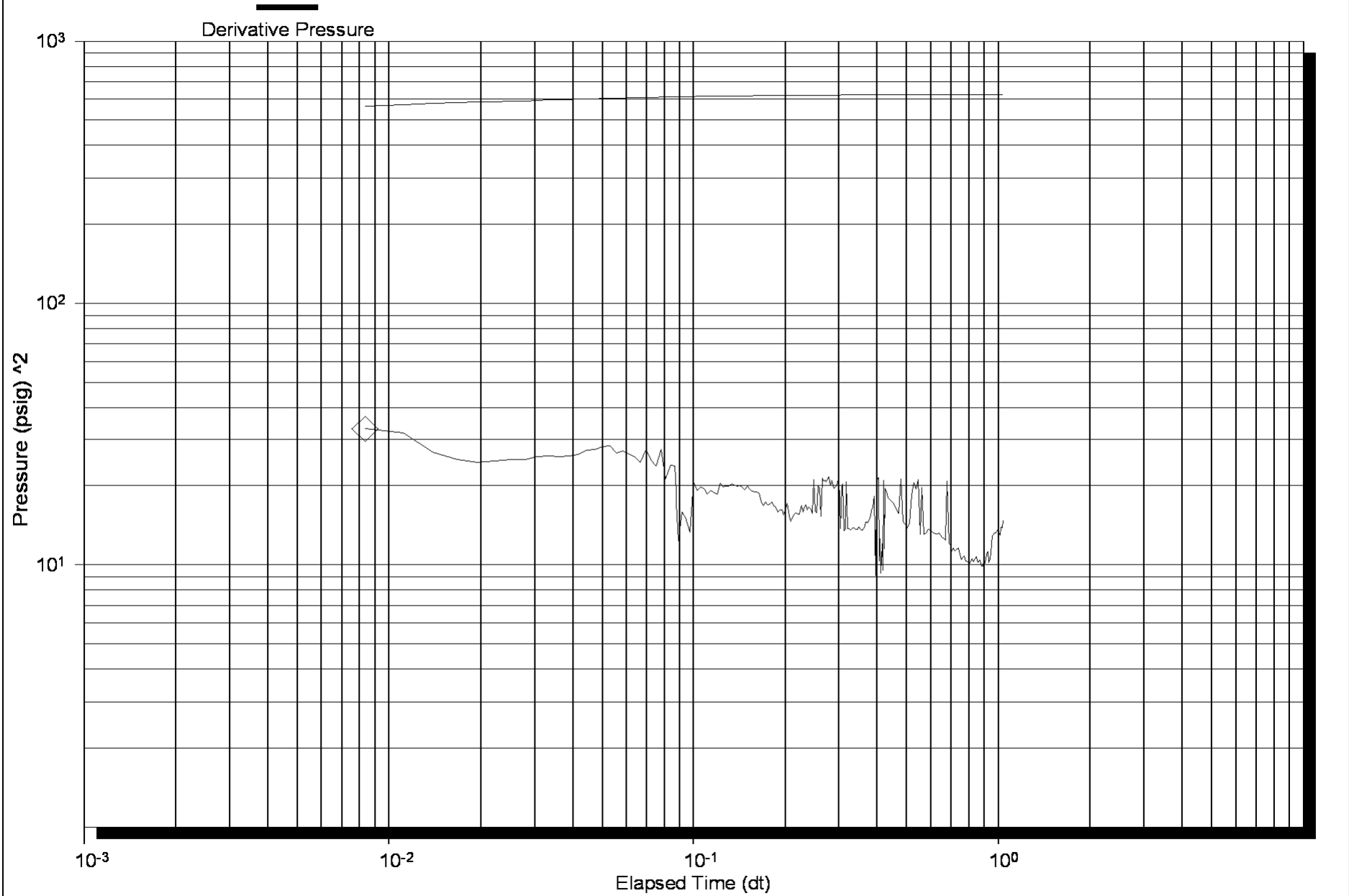
Horner Plot



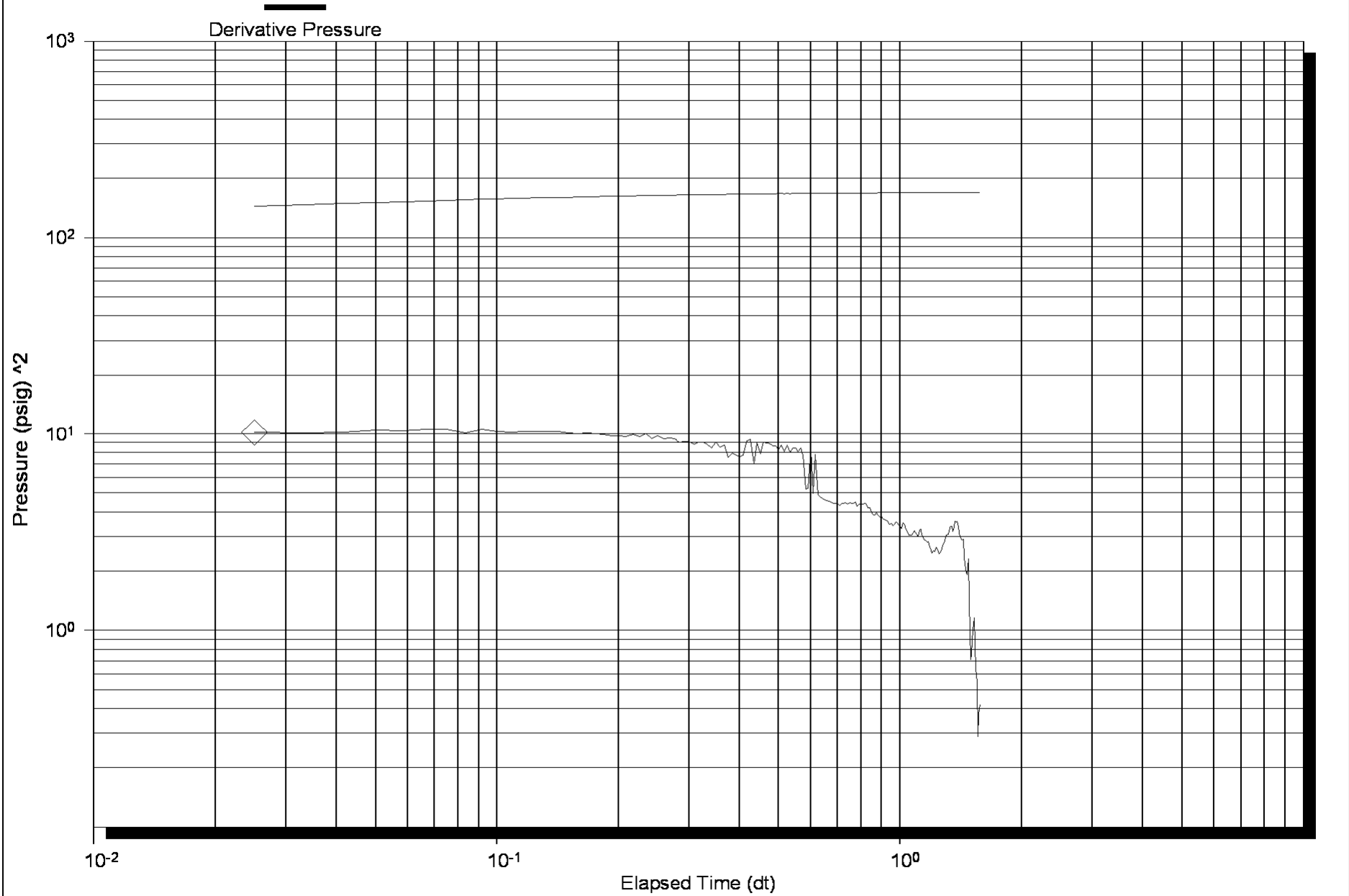
Horner Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Clayton Camozzi

9/18S/11W-Barton

Kirby Krier 1-9

Start Date: 2011.05.10 @ 21:30:26

End Date: 2011.05.11 @ 04:10:56

Job Ticket #: 42881 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.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

ATTN: Clayton Camozzi

Job Ticket: 42881

DST#: 4

Test Start: 2011.05.10 @ 21:30:26

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:50:26

Time Test Ended: 04:10:56

Test Type: Conventional Straddle

Tester: Dustin Rash

Unit No: 38

Interval: 3320.00 ft (KB) To 3330.00 ft (KB) (TVD)

Reference Elevations: 1776.00 ft (KB)

Total Depth: 3439.00 ft (KB) (TVD)

1769.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 401.71 psig @ 3322.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.10

End Date: 2011.05.11

Last Calib.: 2011.05.11

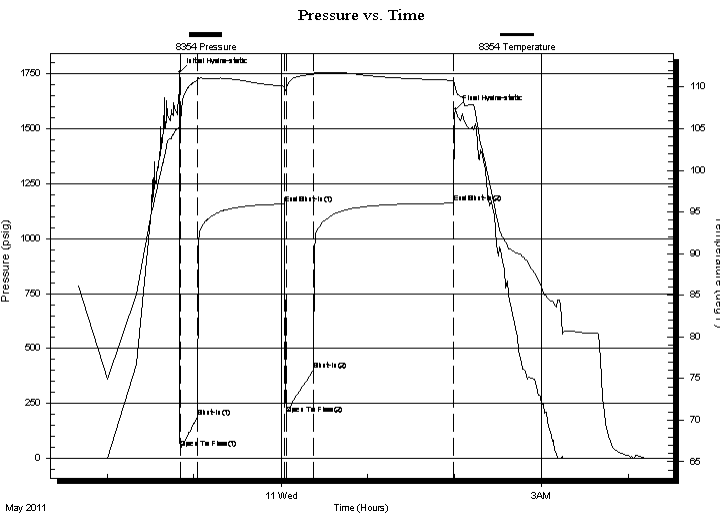
Start Time: 21:40:26

End Time: 04:10:56

Time On Btm: 2011.05.10 @ 22:50:06

Time Off Btm: 2011.05.11 @ 02:00:26

TEST COMMENT: IF-Strong building blow . BOB in 2 minutes 10 seconds.
ISI-No Return.
FF-Strong building blow . BOB in 3 minutes.
FSI-No Return. Time Intervals- 10-60-20-90



PRESSURE SUMMARY

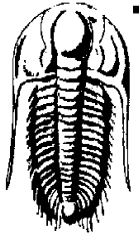
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.75	105.31	Initial Hydro-static
1	46.90	104.88	Open To Flow (1)
13	189.44	110.82	Shut-In(1)
73	1158.06	110.10	End Shut-In(1)
74	203.89	109.56	Open To Flow (2)
93	401.71	111.54	Shut-In(2)
189	1161.22	110.81	End Shut-In(2)
191	1587.54	109.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
565.00	95%Water/5%Mud	7.93
186.00	80%Water/20%Mud	2.61
124.00	60%Mud/40%Water	1.74

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates Inc.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42881

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2011.05.10 @ 21:30:26

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:50:26

Time Test Ended: 04:10:56

Test Type: Conventional Straddle

Tester: Dustin Rash

Unit No: 38

Interval: 3320.00 ft (KB) To 3330.00 ft (KB) (TVD)

Reference Elevations: 1776.00 ft (KB)

Total Depth: 3439.00 ft (KB) (TVD)

1769.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8520 Outside

Press @ Run Depth: psig @ 3322.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.10

End Date: 2011.05.11

Last Calib.: 2011.05.11

Start Time: 21:30:44

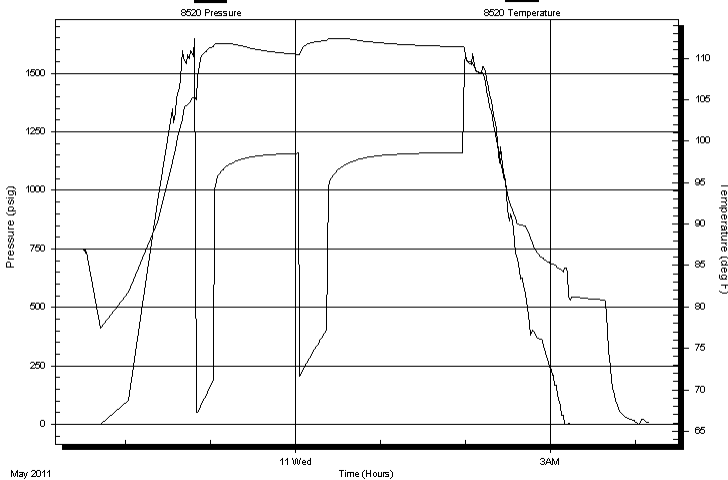
End Time: 04:10:13

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Strong building blow . BOB in 2 minutes 10 seconds.
IS-No Return.
FF-Strong building blow . BOB in 3 minutes.
FS-No Return. Time Intervals- 10-60-20-90

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
565.00	95%Water/5%Mud	7.93
186.00	80%Water/20%Mud	2.61
124.00	60%Mud/40%Water	1.74

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42881

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2011.05.10 @ 21:30:26

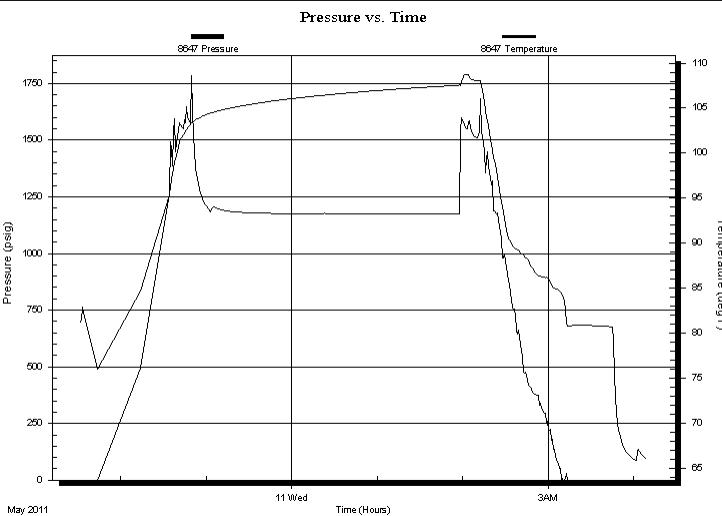
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:50:26
 Time Test Ended: 04:10:56
 Interval: **3320.00 ft (KB) To 3330.00 ft (KB) (TVD)**
 Total Depth: 3439.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Straddle
 Tester: Dustin Rash
 Unit No: 38
 Reference Elevations: 1776.00 ft (KB)
 1769.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8647 Below (Straddle)

Press @ Run Depth: psig @ 3332.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.05.10 End Date: 2011.05.11 Last Calib.: 2011.05.11
 Start Time: 21:31:42 End Time: 04:09:21 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-Strong building blow . BOB in 2 minutes 10 seconds.
 IS-No Return.
 FF-Strong building blow . BOB in 3 minutes.
 FS-No Return. Time Intervals- 10-60-20-90



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
565.00	95%Water/5%Mud	7.93
186.00	80%Water/20%Mud	2.61
124.00	60%Mud/40%Water	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates Inc.

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Clayton Camozzi

Kirby Krier 1-9

9/18S/11W-Barton

Job Ticket: 42881

DST#: 4

Test Start: 2011.05.10 @ 21:30:26

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:50:26

Time Test Ended: 04:10:56

Test Type: Conventional Straddle

Tester: Dustin Rash

Unit No: 38

Interval: 3320.00 ft (KB) To 3330.00 ft (KB) (TVD)

Total Depth: 3439.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1776.00 ft (KB)

1769.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8653 Fluid

Press @ RunDepth: psig @ 3290.00 ft (KB)

Start Date: 2011.05.10

End Date: 2011.05.11

Start Time: 21:36:58

End Time: 04:14:57

Capacity: 8000.00 psig

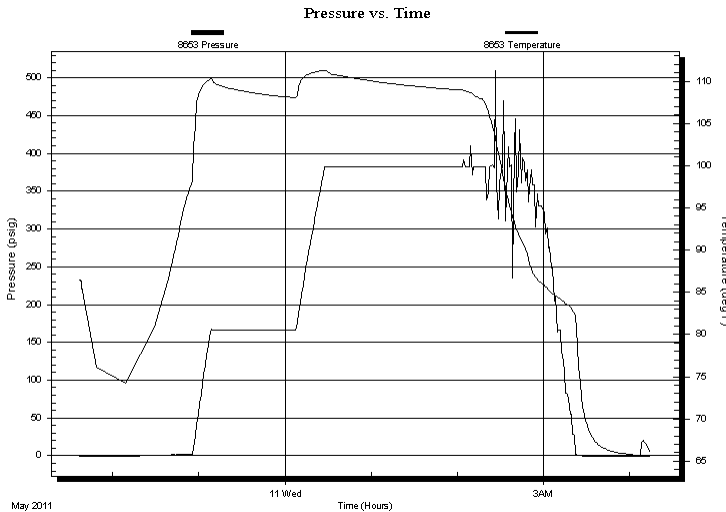
Last Calib.: 2011.05.11

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Strong building blow . BOB in 2 minutes 10 seconds.
IS-No Return.
FF-Strong building blow . BOB in 3 minutes.
FS-No Return. Time Intervals- 10-60-20-90

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
565.00	95%Water/5%Mud	7.93
186.00	80%Water/20%Mud	2.61
124.00	60%Mud/40%Water	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates Inc.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42881

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2011.05.10 @ 21:30:26

Tool Information

Drill Pipe:	Length: 3305.00 ft	Diameter: 3.80 inches	Volume: 46.36 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	4000.00 lb
			<u>Total Volume: 46.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3320.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	3327.00 ft				
Interval between Packers:	7.00 ft				
Tool Length:	149.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

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

Recorder	0.00	8653	Fluid	3290.00		
Change Over Sub	1.00			3291.00		
Shut In Tool	5.00			3296.00		
Sampler	2.00			3298.00		
Hydraulic tool	5.00			3303.00		
Jars	5.00			3308.00		
Safety Joint	3.00			3311.00		
Packer	5.00			3316.00	30.00	Bottom Of Top Packer
Packer	4.00			3320.00		
Stubb	1.00			3321.00		
Perforations	1.00			3322.00		
Recorder	0.00	8354	Inside	3322.00		
Recorder	0.00	8520	Outside	3322.00		
Perforations	4.00			3326.00		
Blank Off Sub	1.00			3327.00	7.00	Tool Interval
Packer	4.00			3331.00		
Change Over Sub	1.00			3332.00		
Recorder	0.00	8647	Below	3332.00		
Drill Pipe	93.00			3425.00		
Change Over Sub	1.00			3426.00		
Perforations	10.00			3436.00		
Bullnose	3.00			3439.00	112.00	Bottom Packers & Anchor

Total Tool Length: 149.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates Inc.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42881

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2011.05.10 @ 21:30:26

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:

16000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 37.91 in³

Gas Cushion Type:

Resistivity: 0.40 ohm.m

Gas Cushion Pressure:

psig

Salinity: 42000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
565.00	95%Water/5%Mud	7.925
186.00	80%Water/20%Mud	2.609
124.00	60%Mud/40%Water	1.739

Total Length: 875.00 ft Total Volume: 12.273 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

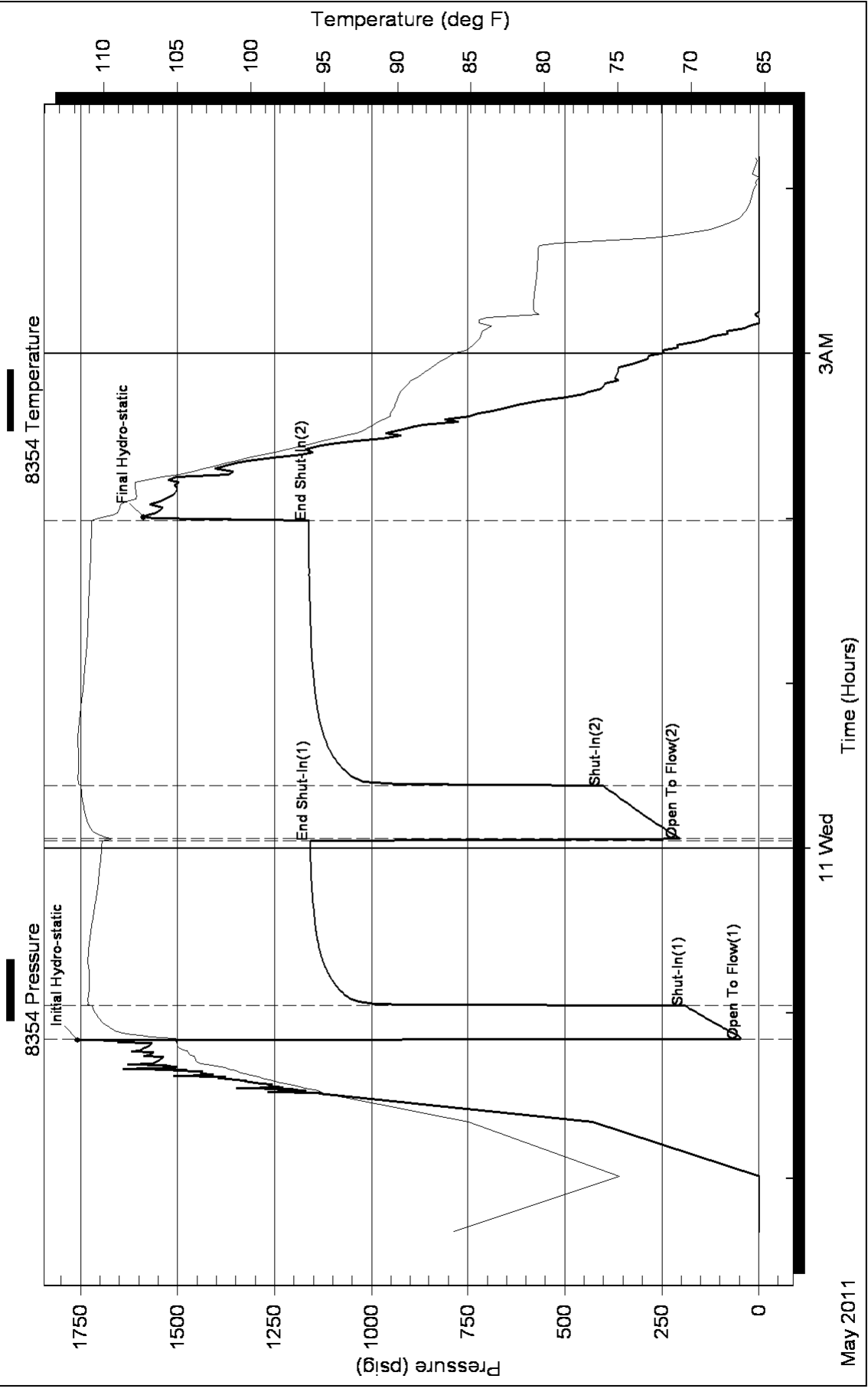
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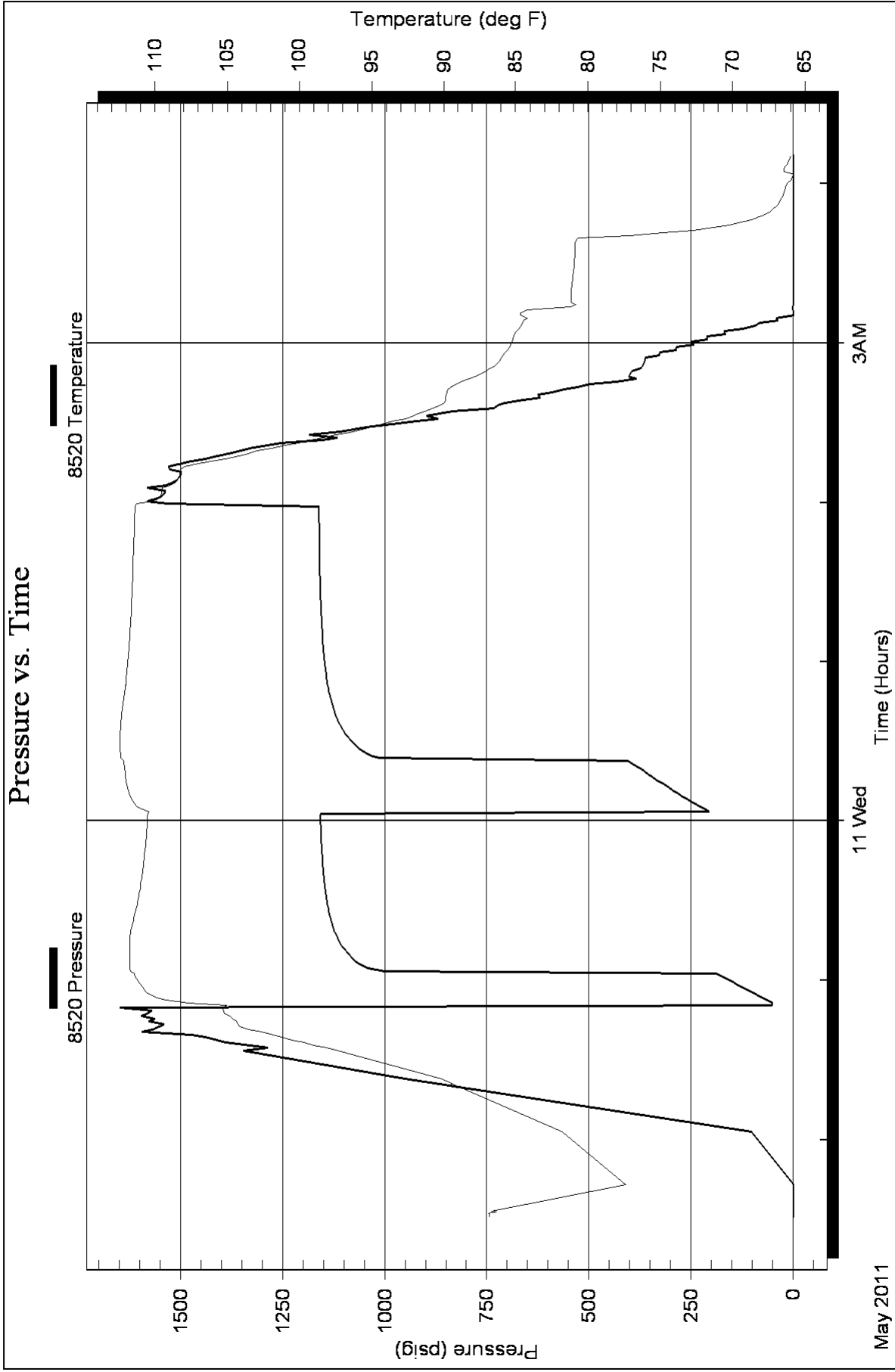
Laboratory Name:

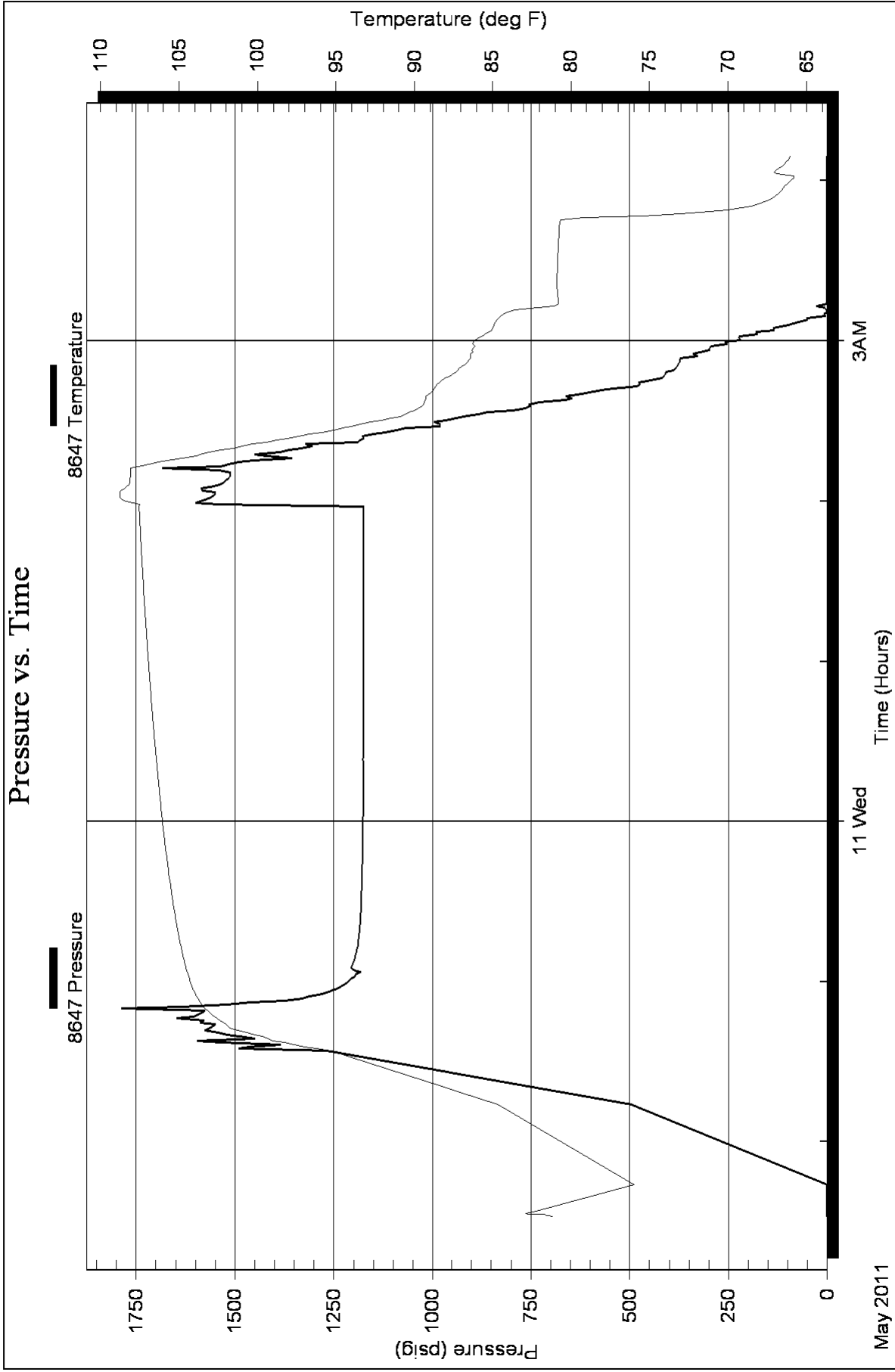
Laboratory Location:

Recovery Comments: Sampler-2000 ML-Water 700# Pressure. RW-.440@67-15000 chlorides.

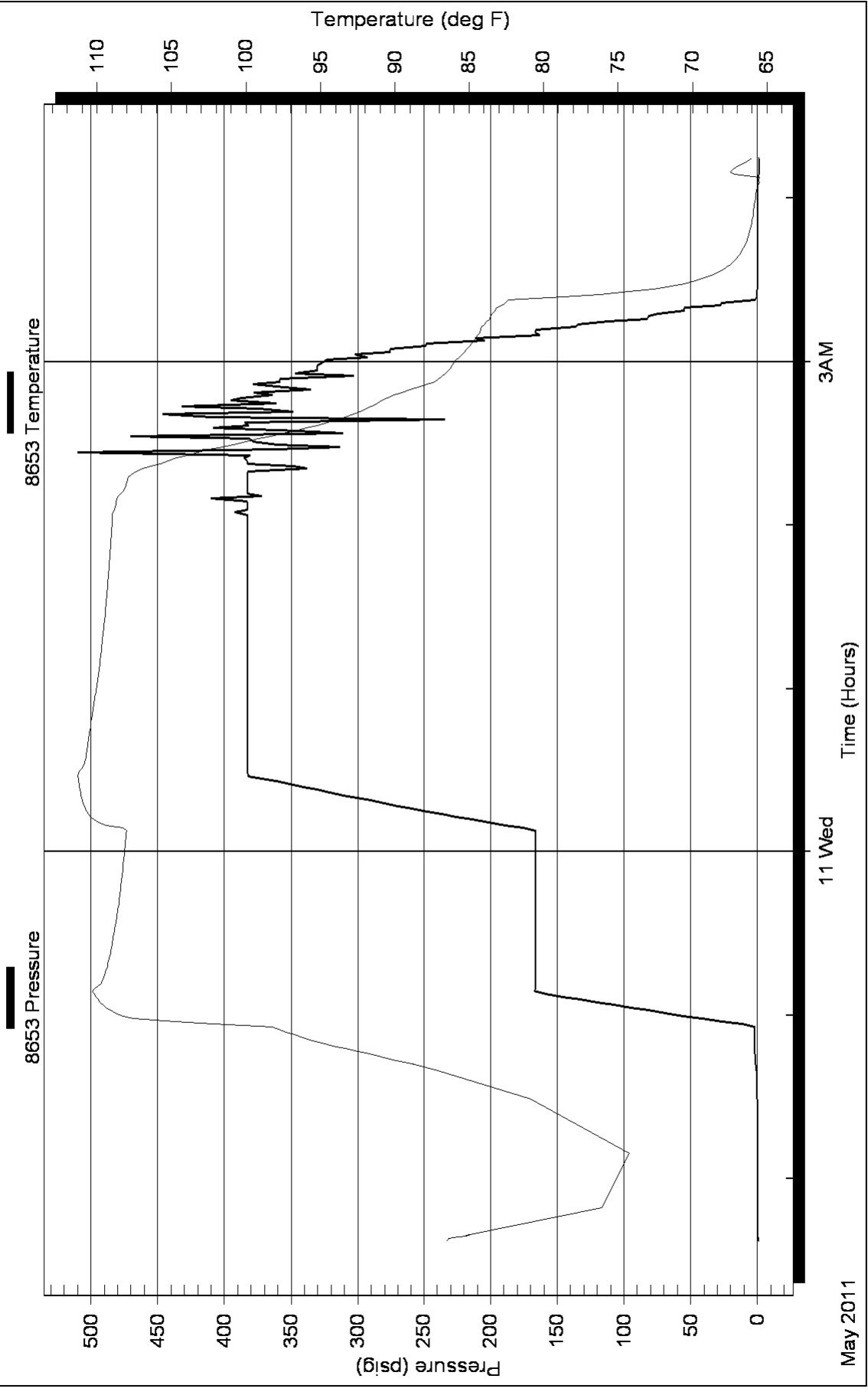
Pressure vs. Time



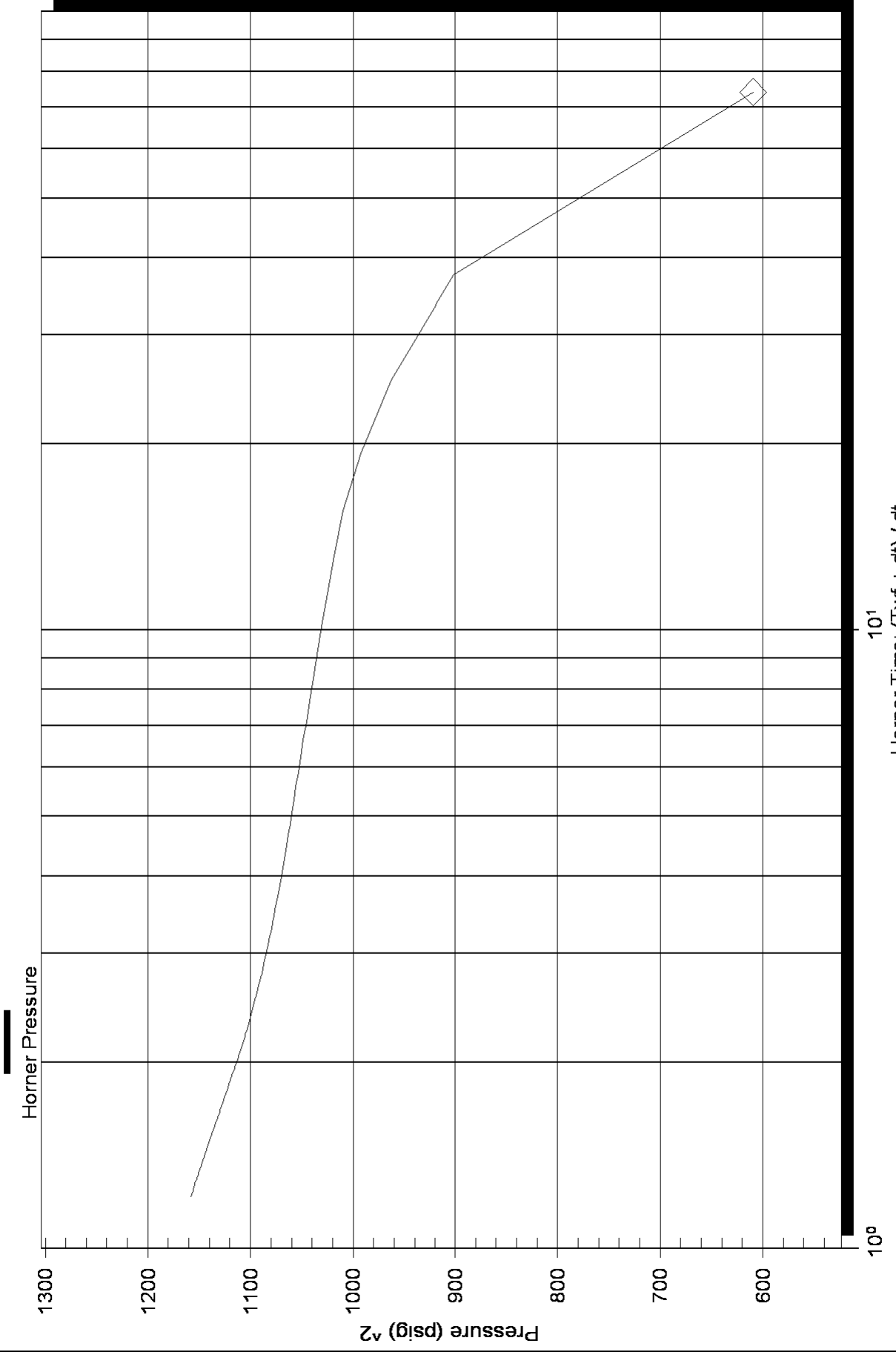




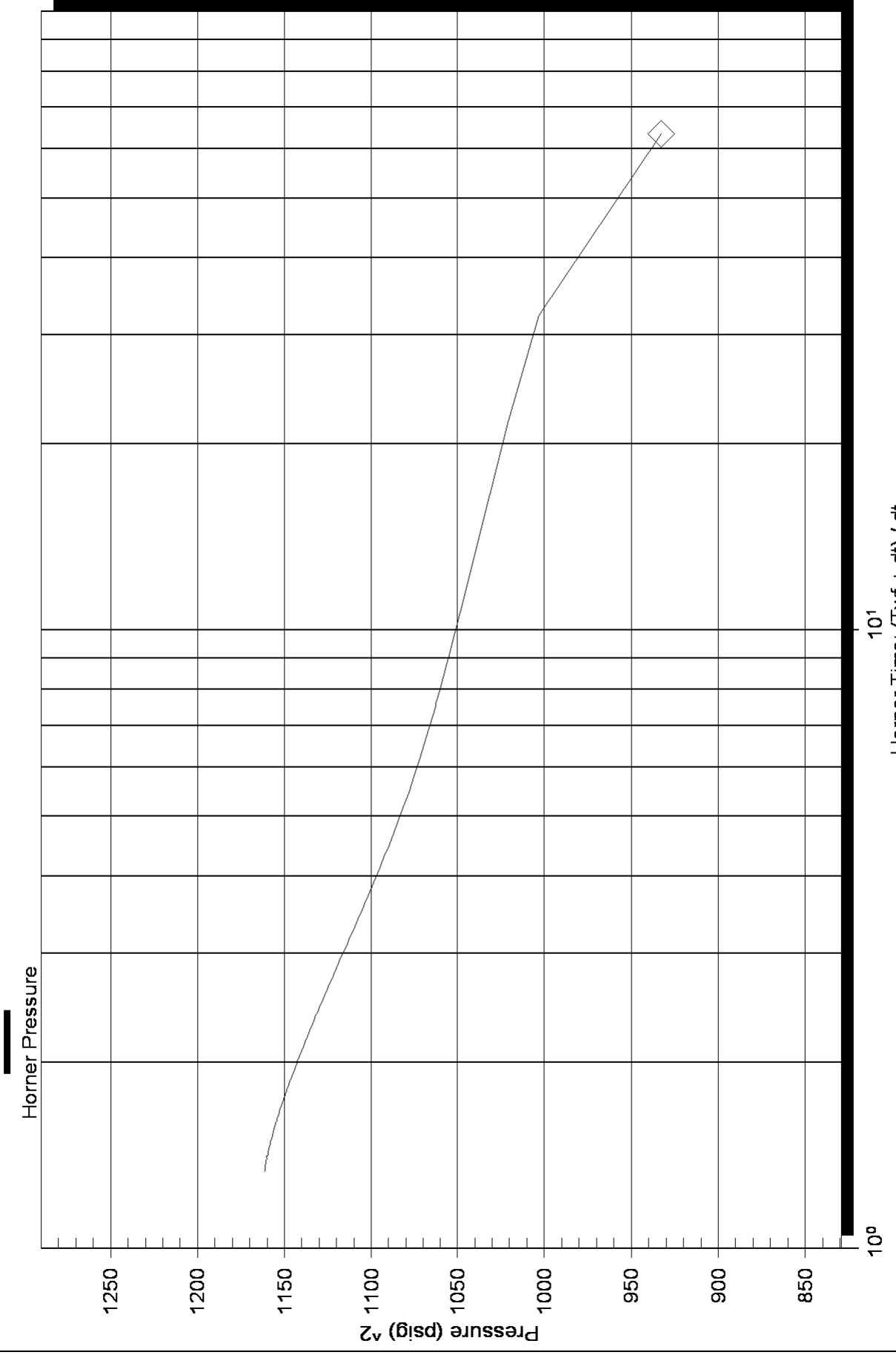
Pressure vs. Time



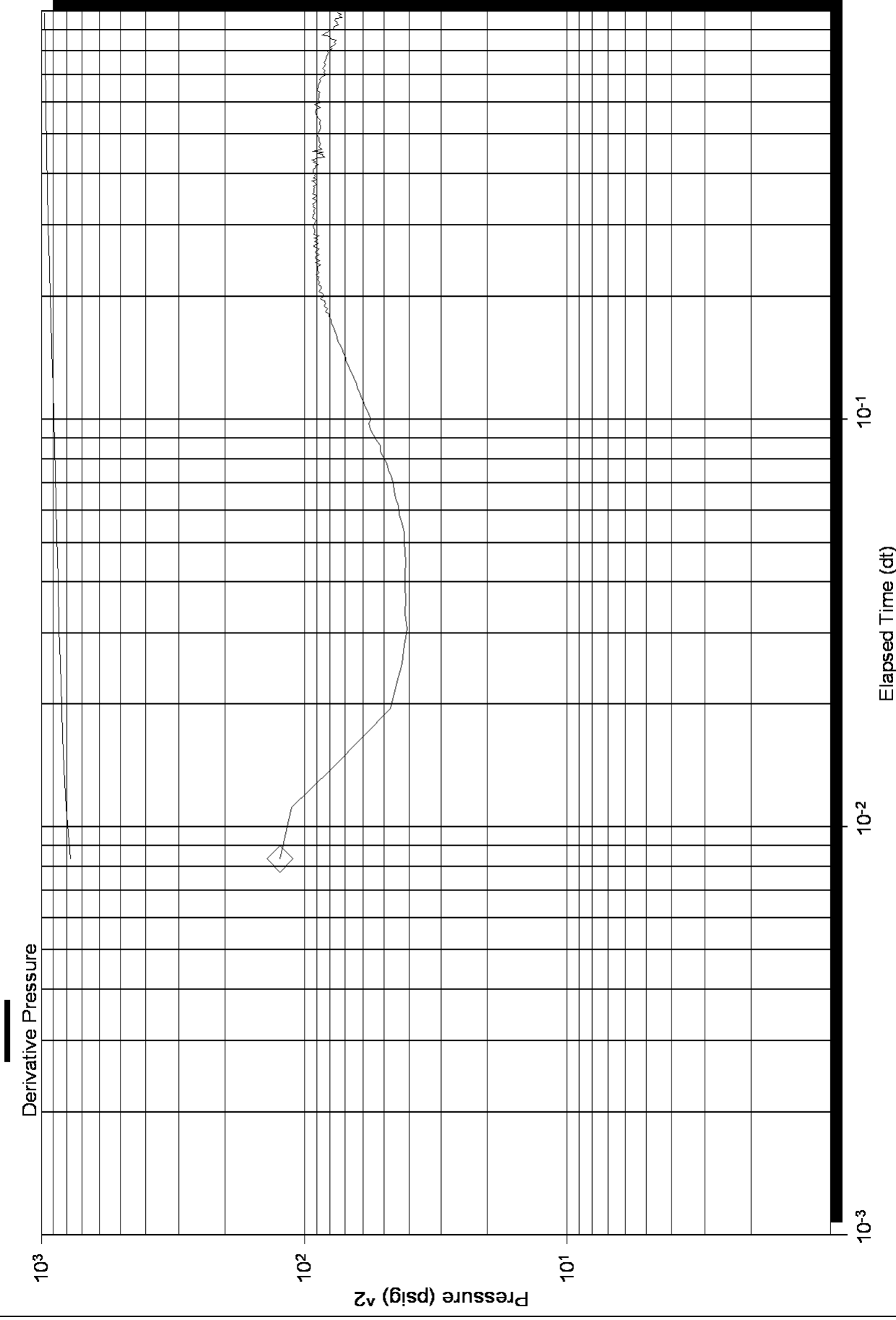
Homer Plot



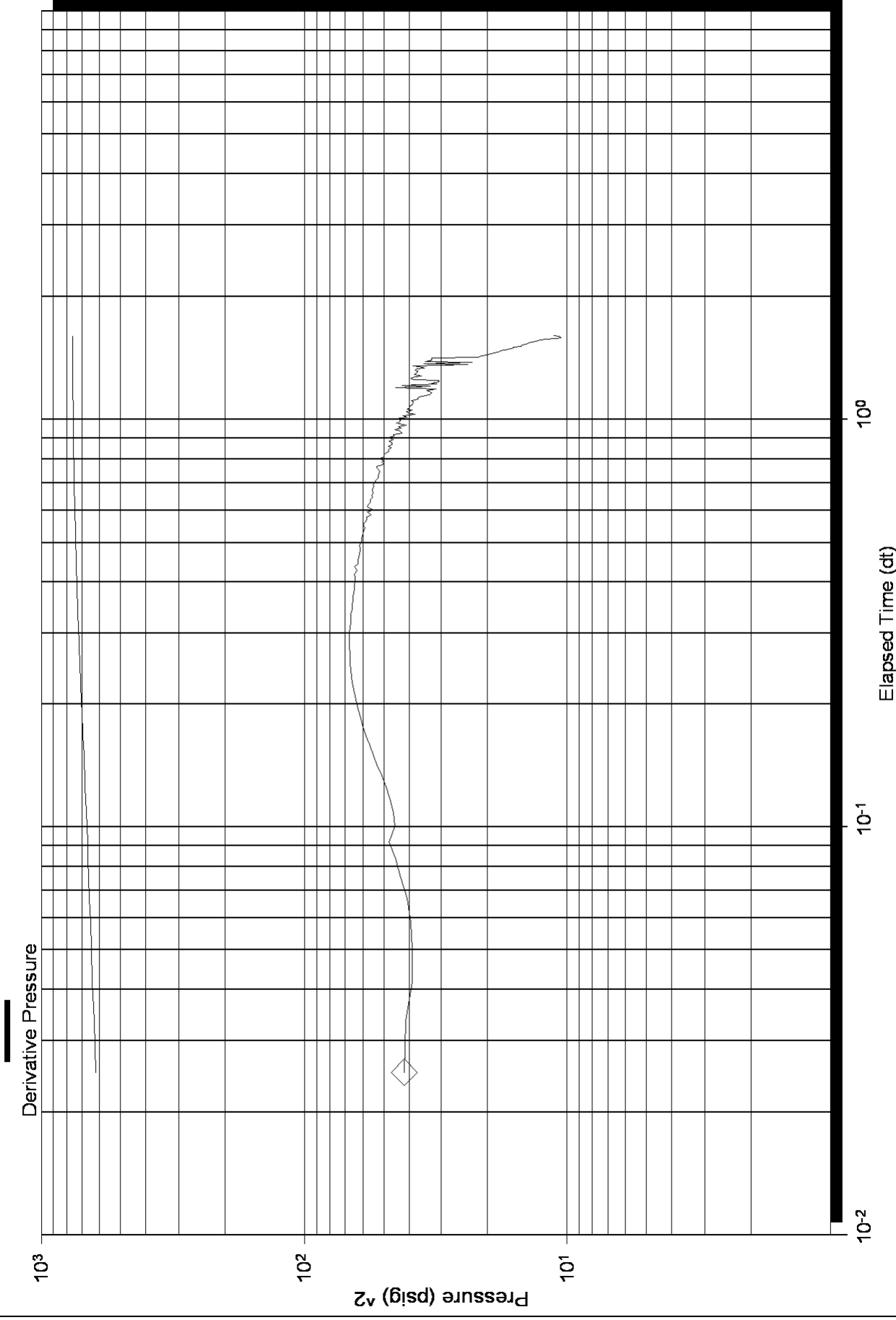
Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





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

Well Name: Kirby Krier # 1-9
Location: Sec 9 18s 11w, Barton County, Kansas
License Number: 15-009-25547-0000
Spud Date: 5/ 04/2011
Surface Coordinates: 950' Fsl & 1800' fel
Region: Wildcat
Drilling Completed: 5/10/2011

Bottom Hole Coordinates:

Ground Elevation (ft): 1769' K.B. Elevation (ft): 1776'
Logged Interval (ft): 2600' To: 3440' Total Depth (ft): 3440'
Formation: Lansing, Kansas City
Type of Drilling Fluid:

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

OPERATOR

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

GEOLOGIST

Name: Tim Hedrick
Company: EARTH TECH OGL, Inc.
Address: PO Box 683
102 W. Main
Hooker, Okla. 73945

DSTs

DST#1 3040 TO 3105' 10 60 35 90
IF- WK SRFC BLO THRU/ ISI- NB/ FF- WK SRFC BLO DIED IN 22 MIN./ FSI- NB
IH- 1509, FH- 1459/ IF- 33 TO 36, FF- 38 TO 55/ ISI- 640, FSI- 474
Recovered, 20' TF, 15' Mud 100% m., 5' Mud w/ spots oil
BHT 103 DEG. PIT CHL. 5000

DST#2 3175' TO 3210' 10 60 30 90
IF- WK BLO BLD TO 1"/ ISI - NB/ FF- WK BLO DIED IN 19 MIN./ FSI- NB
IH- 1604, FH-1589/ IF- 19 TO 24, FF- 24 TO 28/ ISI- 765, FSI- 715
Recovered 20' M., 100% M./ Pit Chl- 5000/ Chl -40000 from test
BHT 105 DEG.

DST'S

DST#3 3303' TO 3341' 10 60 20 90

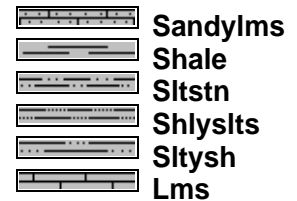
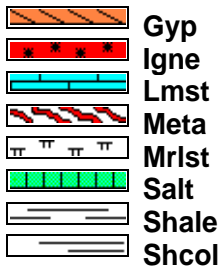
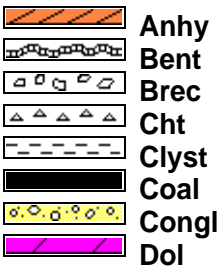
IF BOB 30 Sec./ ISI- NB/FF- BOB 30 Sec./ FSI- NB/

IH- 1634, FH-1553/ IF- 341 TO 531, FF-568 TO 987/ ISI- 1156, FSI-1156

Recovered 2325' W., 372' WM, 35%W. 65%M., 682' WM, 70% W., 30% M./ 1271' WM, 95% w., 5% M. Bht 111 Deg.

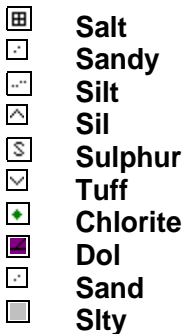
Chl pit 40000/ Test Chl 19000

ROCK TYPES

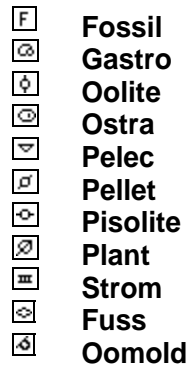
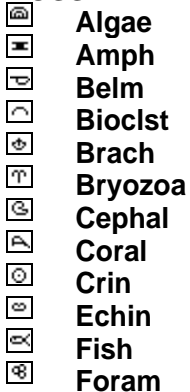


ACCESSORIES

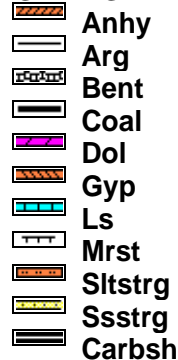
MINERAL



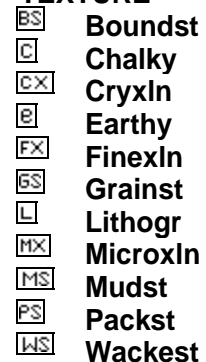
FOSSIL



STRINGER



TEXTURE



OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

Angular

OIL SHOWS

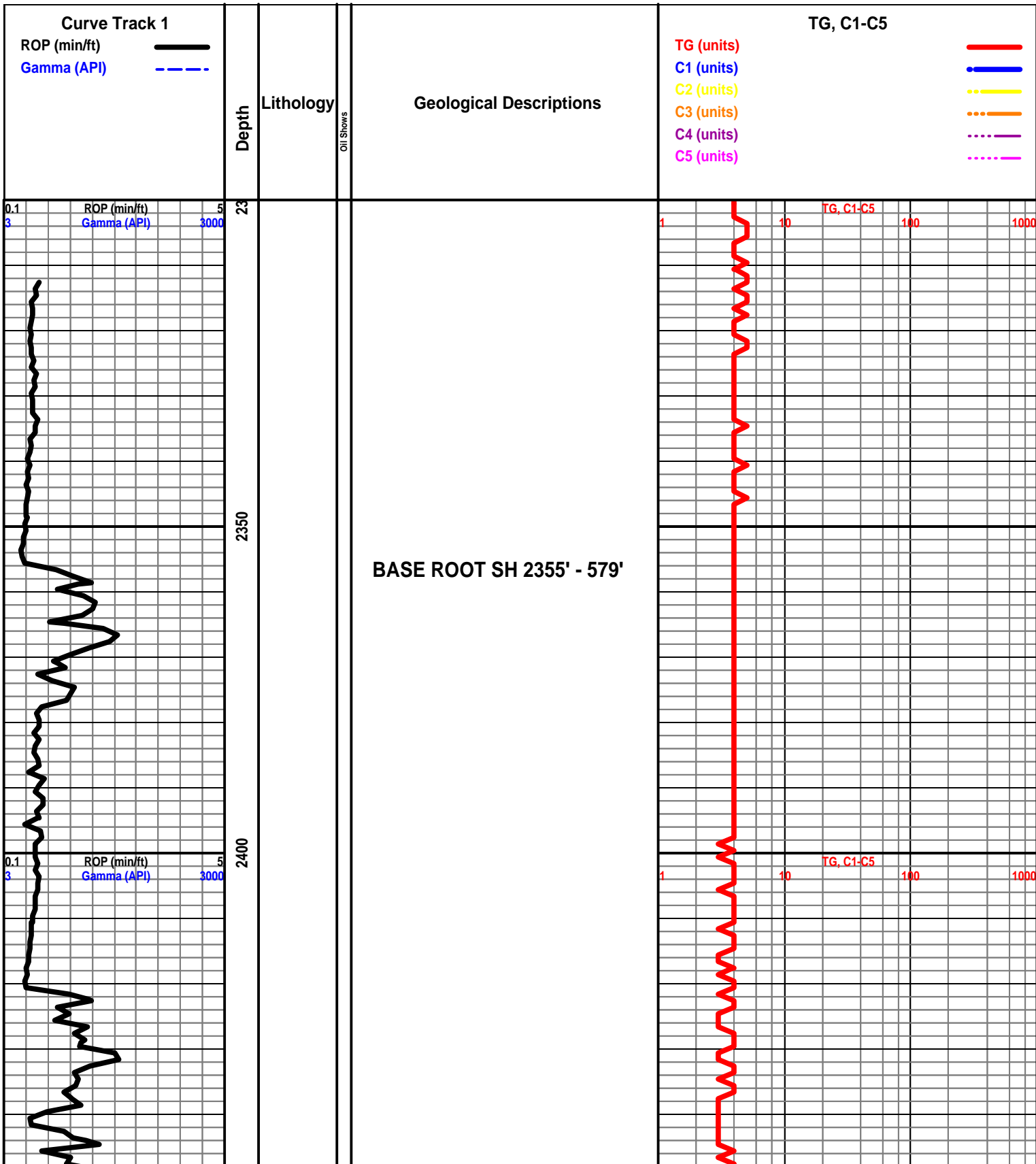
- Even
- Spotted
- Ques
- Dead
- Gas show

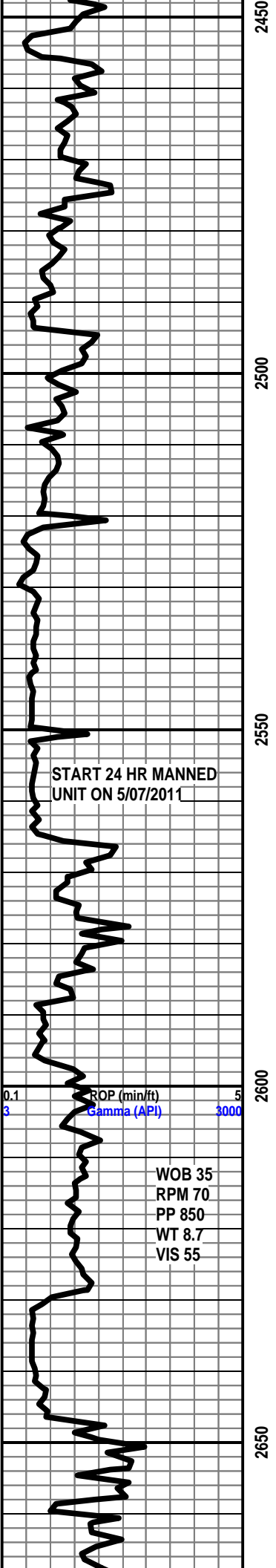
INTERVALS

- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall





2450

2500

2550

2600

2650

START 24 HR MANNED UNIT ON 5/07/2011

WOB 35
 RPM 70
 PP 850
 WT 8.7
 VIS 55

HOWARD 2565' - 789'

DISPLACE HOLE @ 2600

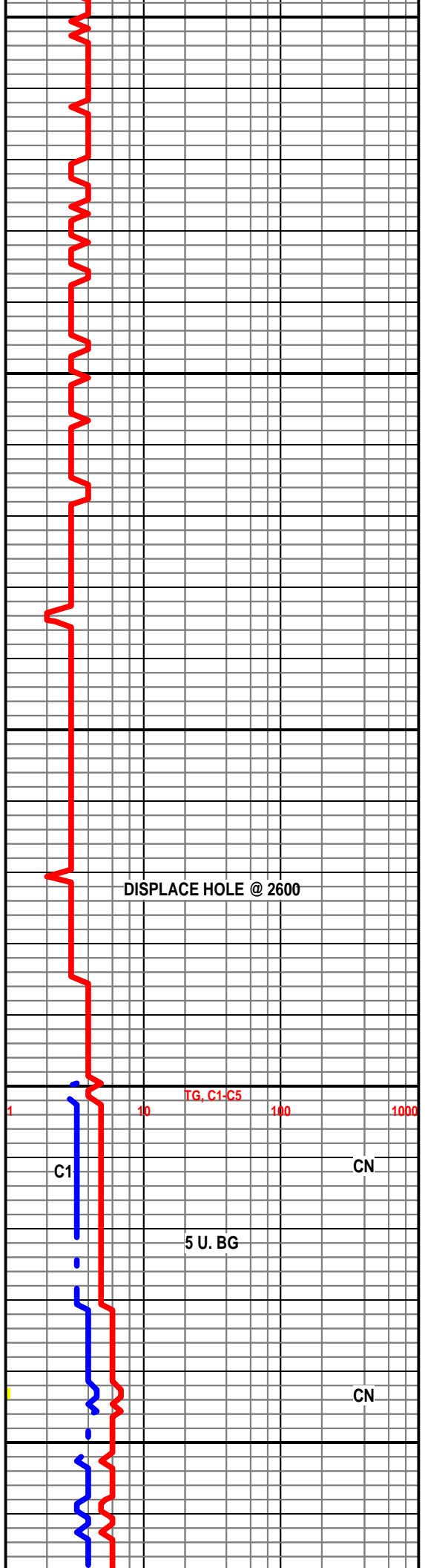
LS- CRM LT TN TN- HD DNS TO BEITT IP,
 MD-XLN TR FREE FOSS IP, LT BRIT YEL MIN
 FLO NO VIS POR, NO VIS SHOW

SH- LT GY TO GY- FRM IP GRDING TO SFT
 SLTY

TOPEKA 2646' - 870'

LS- LT TN TN- HD V/ BRITT, V/ SUCRO MTRX
 VAREN THRU, V/V/F-GRN QURTZ SCAT
 THRU, LT YEL FLO, NO VIS POR, NO VIS CUT

LS- CRM BFF LT GY- HD DNS F-XLN MOTT IP



C1

CN

5 U. BG

CN

TR IMBD SH , TR FOSS IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM TR LT GY- MD HD TO SFT, V/ SUCRO S-CHLKY TO CHLKY MTRX. SCAT IMBD SMLL CALC XLS IP , TR V/V/F-QURTZ GRNS IMBD IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT GY GY- HD DNS MOTT, F-V/F-XLN TT SUCRO MTRX TO TR F-XLN IP TR IMBD SH IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TN - HD DNS F-XLN TO TT SUCRO MTRX IP, HVY TR SCAT IMBD FOSS FRGS THRU, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS - CRM TN BFF- HD TO BRITT MD-XLN TO SUCRO IP, RE-XLN IP, FOSS FRGS SCAT IP, TR IMBD LT GY SH , LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

LeCOMPTON 2773'- 997'

LS- CRM LT TN TN- HD DNS TO BRIT, MD-XLN RE-XLN , ABDT IMBD SMLL CALC XLS THRU, TR FOSS FRGS IP, LT YEL MIN FLO TO NO FLO IP, NO VIS POR, NO VIS SHOW

LS- CRM BFF- HD DNS F-XLN TO V/ TT SUCRO MTRX, FOSS FRGS IMBD THRU, SLI TR IMBD DISS LT GY SH IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB

LS- OFF WHT CRM LT TN HD DNS IP TO MD HD TO SFT, F-XLN TO SUCRO S-CHLKY IP, TR FOSS FRGS SCAT IP, HVY TR SFT WHT CHLK IP , NO FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM- HD TO BRITT, MD-F-XLN, RE-XLN MTRX, V/ FOSS, TR IMBD PELT, SMLI CALC XLS IMBD, V/V/ DLL YEL FLO, GD SCAT MICRO OOLMLD TO FR TO PR SCAT MICRO VUG POR, NO VIS CUT OR SHOW

LS- LT TN TN- HD DNS TO V/ BRITT, V/ SUCRO MTRX TO F-XLN IP, SMLL CALC XLS IMBD, TR FOSS FRGS THRU, NO FLO, PR VIS INTER-XLN POR. NO VIS CUT OR SHOW

7 U. BG

CN

C1

CN

C2

11 U. BG

CN

CN

C1

15 U. BG

C2

CN

TG, C1-C5

15 U. BG

20 U. SH

CN

20 U. BG

CN

2700

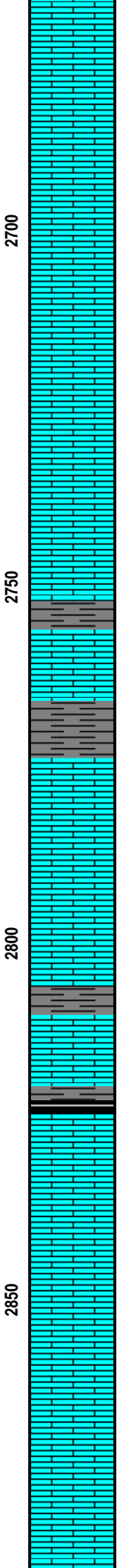
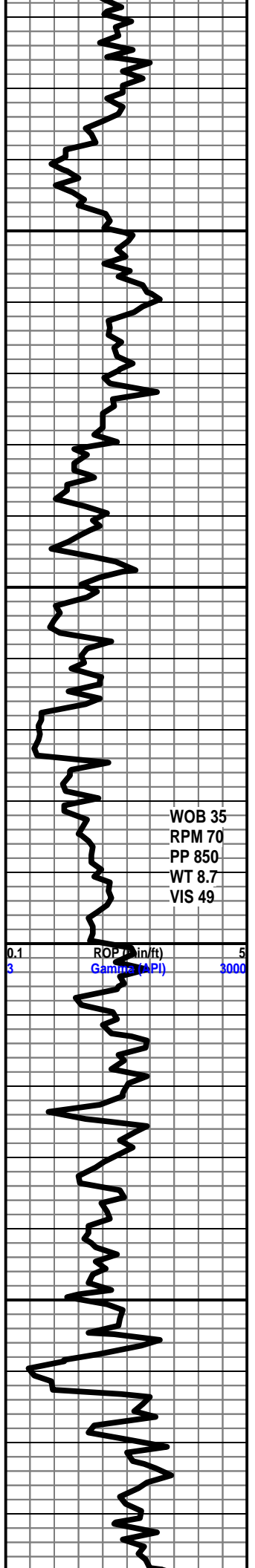
2750

2800

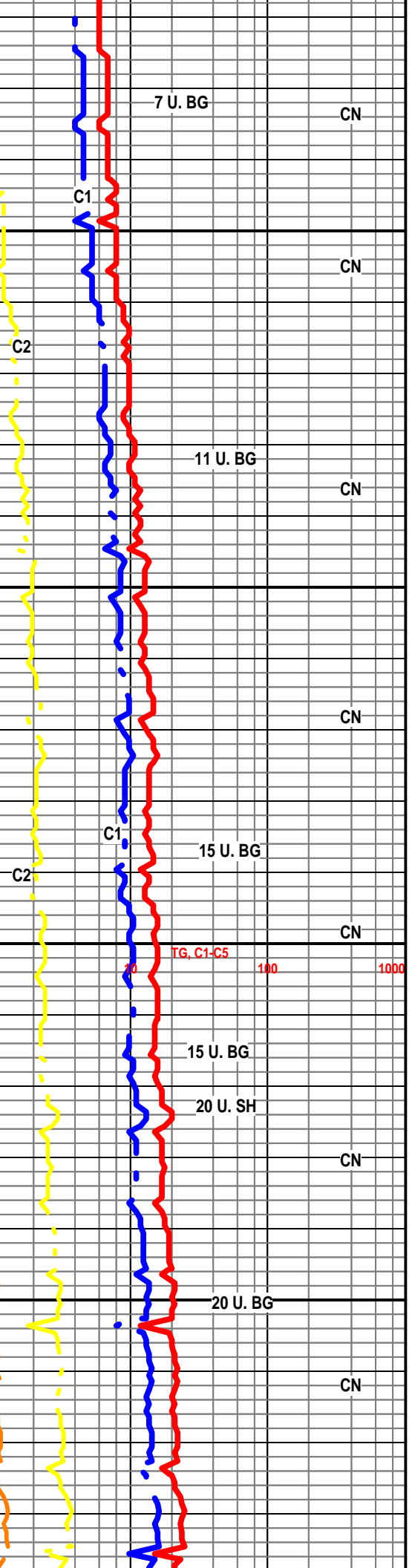
2850

WOB 35
RPM 70
PP 850
WT 8.7
VIS 49

0.1
3 ROP (in/ft)
Gamma (API) 3000



Well log text providing detailed descriptions of geological formations and their characteristics, including lithology, porosity, and permeability. The text is organized into sections corresponding to different depth intervals.



HEEBNER 2906' - 1130'

SH- BLK SFT CARB

LS- OFF WHT CRM LT GY- HD DNS TO MD HD IP, V/ TT SUCRO MTRX TO SUCRO S-CHLKY, TR IMBD SH IP, HVY TR GY CHRT, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM BFF- HD DNS F-V/F-XLN S-SUCRO IP, TR FOSS IP, SCAT TN WHT MOTT CHRT W/ IMBD PYR, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

DOUGLAS 2936' - 1160'

SH- RED V/ SFT GMMY TXT TO SLI SLTY IP

SH-LT RED TO LT GRN, V/ SFT GMMY TXT TO HVY TR SLTY IP

SH- LT GRN - V/ SFT IP TO V/ SLTY, V/V/F- QURTZ GRNS IMBD THRU,

SHLY SLT- FRSTY LT GY- FRM TO TR FRI, V/V/F-GRN QURTZ ABTD IMBD DISS SH THRU SLI TR GLAUC IMBD IP, NO FLO, NO VIS POR, NO VIS SHOW

BR. LIME 3012' - 1236'

LS- TN BRN GY IP, MOTT, HD DNS F-CLN TO MD -XLN IP, TR FREE FOSS, TR IMBD LT GY SH IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

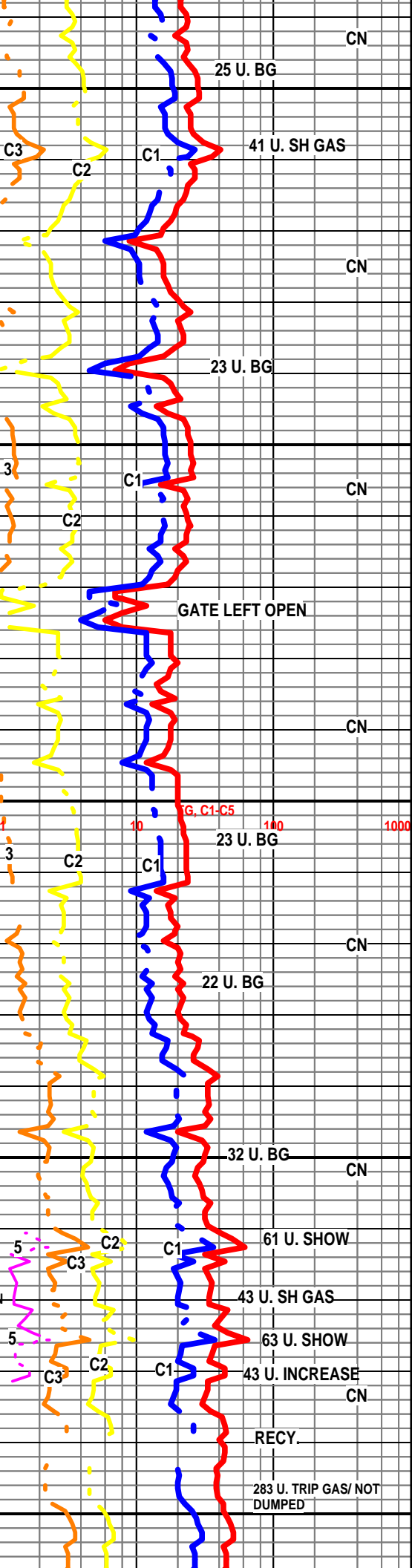
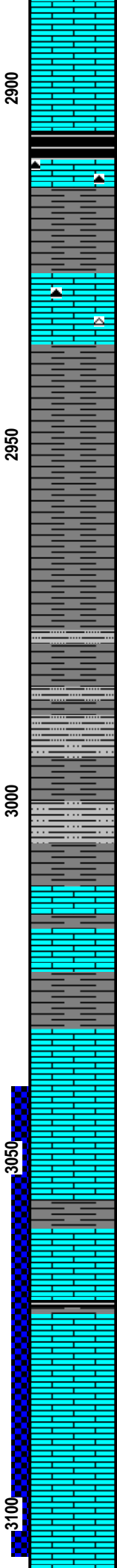
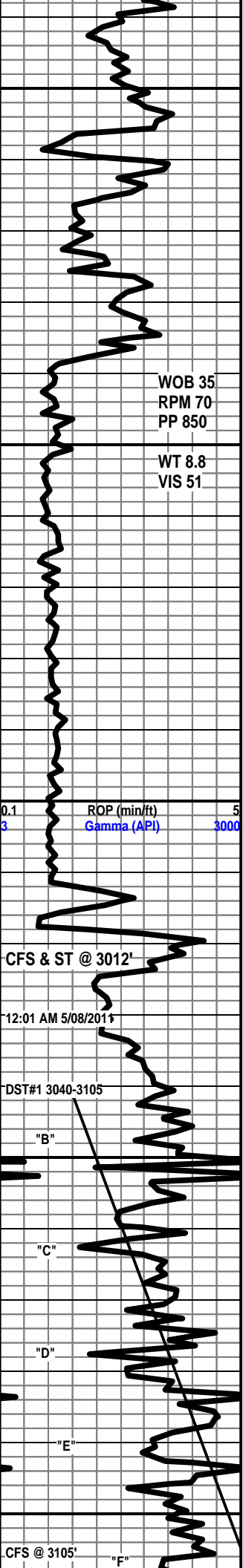
LANSING 3033' - 1257'

3048' LS -CRM LT TN (TN ST SCAT IN 60%) HD DNS SLI TR BRITT IP, F-XLN RE-XLN MTRX, HVY TR SCAT SMLL TO MD CALC XLS IMBD IP, TR FOSS IP, BRIT YEL GLD FLO IN 10%, DLL YEL GLD FLO IN 50%, PR SCAT INTER-XLN POR, PR SCAT MICROVUG POR W/ STN, FR FLSH CUT TO FR TO GD SLO STRM CUT, FR OIL ODOR

3063' LS LT TN TN (TN STN IN 70%) HD DNS TO V. BRITT IP, F-XLN TO MD XLN RE-XLN, V/ FOSS, ABTD MD CALC XLS VRGTD IP, ABTD SCAT MICRO OOL THRU, BRIT YEL GLD SPTTD FLO THRU DLL YEL GLD FLO THRU, PR TO FR VIS MICRO VUG POR SCAT THRU, FR VIS INTER-XLN FOSS POR, MICROVUG POR IN 60%, GD FLSH IN 90% TO GD SLO STRM CUT IN 90-100%, GD OIL ODOR, TN STN O DISH, LV OIL IN TRAY

3075- 3081 LS- OFF WHT CRM (LT TN OILS STN SCAT IN VUGS) HD BRITT, MD-F-XLN RE-XLN MTRX, SMLL FOSS FRGS SCAT THRU, SMLL CALC XLS IMBD SCAT THRU, SLI TR DISS PYR IP, BRIT YEL GLD FLO IN 60%, DLL YEL GLD FLO IN 30%, FR VIS INTER-XLN FOSS POR SCAT THRU, V/ PR MICROVUG POR IP, FR FLSH CUT TO FR TO GD SLO STRM CUT IN 40%, GD OIL ODOR

LS- CRM LT TN LT GY- HD DNS SLI TR BRITT, F-V/F-XLN RE-XLN IP, SLI TR SUCRO S-CHLKY IP, IMBD FOSS FRGS IP, NO FLO, NO VIS



IP, IMBD FOSS FRGS IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TN, HD TO V/ BRITT, MD-F-XLN RE-XLN, V/ FOSS SCAT THRU, V/ OOLMLD TO OOL SCAT IMBD THRU, ABDT IMBD SFT WHT CHLK SCAT THRU, SMLL CALC XLS IN POR, DLL YEL GLD SPTTD FLO SCAT THRU TO NO FLO IN 30%, GD TO V/ GD OOLMLD POR TO TR FR VUG POR, NO VIS CUT OR SHOW

LANSING "Z" 3159' - 1383'

SH- BLK SFT CARB

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

SH- LT GRN-V/ SFT GMMY

3181-3185 LS OFF WHT CRM LT TN DUE TO STN SCAT IN POR,, HD DNS TO BRITT IP, MD-F-XLN RE-XLN MTRX, V MICROOL TO OOL, SCAT IMBD FOSS FRGS IP, HVY TR DK BRN OILS STN IN 40% POR, ABDT DOS INTEROOL IN 60%, BRIT YEL GLD FLO THRU, PR TO FR TO TR GD VIS INTEROOL POR, PR TO FR INTER-XLN FOSS POR IN 50% FR FLSH CUT TO FR SLO STRM CUT,

3196-3199' LS- LT TN TN DK TN W/ OIL STN IN 90%, HD V/ BRITT, MD-F-XLN RE-XLN MTRX IMBD MD OOL, FOSS FRGS IMBD THRU, SMLL TO MD CALC XLS IMBD IN VUGS, BRIT YEL GLD FLO IN 90%, GD TO V/ GD MICRO VUG TO VUG POR, GD VIS INTER FOSS POR, TR SCAT OOLMLD POR IP, GD FLSH TO FR TO GD SLO STRM MILKY CUT, GD STRNG OIL ODOR, TN LCH ON DISH

3206 -3209 LS- OFF WHT TO LT TN - HD DNS TO TR BRITT, MD-F-XLN RE-XLN MTRX, V/ OOL IP, MICRO OOL IP, TR FOSS FRGS IP, V/ OOLMLD SCAT THRU, BRIT YEL GLD FLO IN 20%, V/ DLL YEL FLO IN 80%, ABDT SCAT PR OOLMLD POR, GD FLSH CUT AND SLO STRM CUT IN 20%, NO CUT IN 80%

STARK SH 3229' - 1453'

SH- MD TO DK GY- FRM BLKY SMTH TXT, TR IMBD DISS PYR

LS- CRM LT TN TN- HD DNS F-V/F-XLN, CRYPTO-XLN IP, TR FOSS FRGS IMBD IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- LT TN LT GY- HD DNS TR BRITT IP, F-V/F-XLN RE-XLN ABDT IMBD MICRO OOL SCAT THRU, ABDT FOSS FRGS IMBD, NO FLO, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB

SH- LT GRN, V/ SFT GMMY

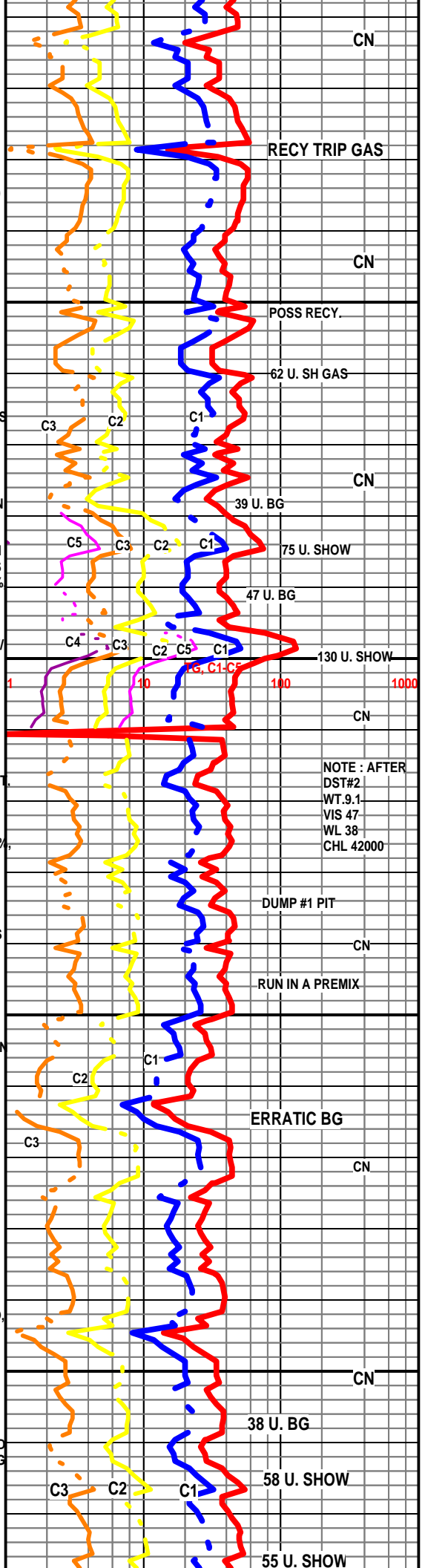
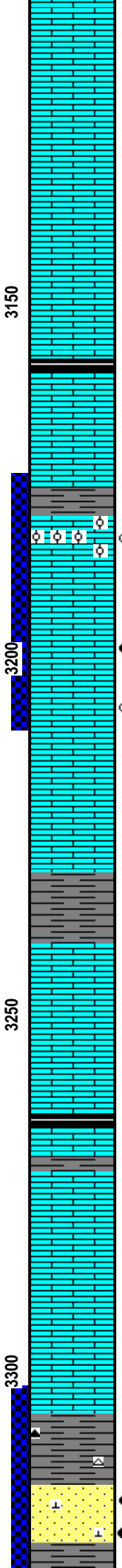
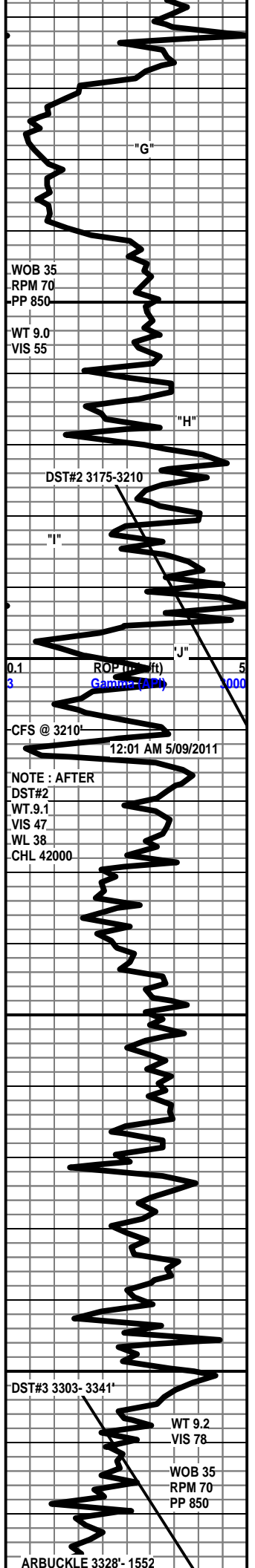
LS- CRM BFF- HD DNS MD-FXLN RE-XLN MTRX, IP TR FOSS FRGS IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS- CRM OFF WHT - HD DNS F-XLN IP TO SUCRO S-CHLKY IP, HVY TR SFT WHT CHLK IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

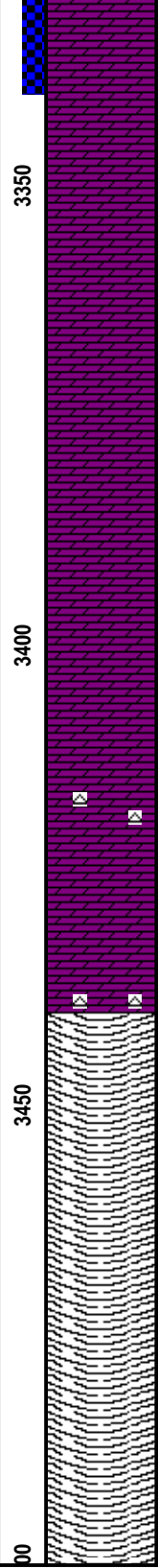
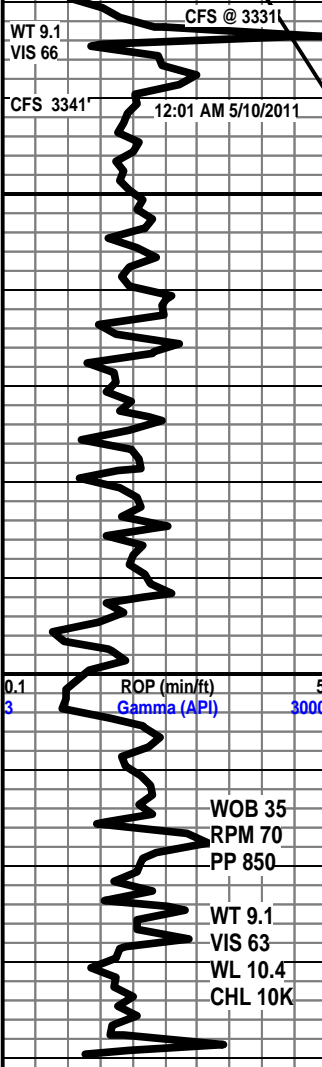
SH- LT GY RED ORANGE- FRM IP SMTH TXT TO V/ SFT GMMY IP, TR SILTY TN WHT CHRT

3317 TO 3324 ' SS- LT TN BRN-TN OIL STN THRU 80%, HD TT TO FRI, F-V/F-GRN CLR QURTZ, TR MD QURTZ IP, ANG S-ANG FR SRT, SIL CMNT TO TR CALC CMNT IP, BRIT YEL GLD FLO IN 70%, PR TO FR VIS INTER-GRN POI THRU, FR FLSH TO FR TO GD SLO SRM MLKY BLU CUT 80%.. GD OIL ODOR, TN STN ON DISH

3324 - 3326- SH - LT GY LT GRN V/ SFT GMMY W/ IMB



NOTE : AFTER DST#2 WT.9.1 VIS 47 WL 38 CHL 42000



● SFT WHT CHLK, TR WHT SUCRO MTRX DOLO W/ ANG DOLO GRNS IP, NO FLO, NO VIS POR

● 3328-3332' DOLO - LT TN TN (DUE TO OIL STN IN 100%), HD DNS IP TO V/ BRITT, F-XLN TO V/ CRS SUCRO MTRX, ABDT IMBD SMLL ANG DOLO GRNS IN 40%, BRIT YEL GLD FLO IN 50%, NO POR IN 50% TO GD VIS INTER-XLN POR IN 40-50% W/ LIVE OIL IN POROSITY, EXCEL FLSH CUT TO EXCEL SLO STRM CUT , GD OIL ODOR , BRN OIL STN ON DISH

3334- 3341' DOLO- WHT TO LT TN (DUE TO STN SCAT IN 80%) HD DNS IP TO V/ BRITT, F-XLN TO V/ CRS SUCRO MTRX, ABDT SMLL TO MD ANG DOLO GRNS THRU, BRIT YEL GLD FLO THRU, FR TO GD VIS INTER-XLN POR I 60% TO NO POR IN 40%, GD FLSH CUT TO V/ GD SLO STRM CUT IN 60%, STRNG OIL ODOR, LT TN LCH ON DISH

3340- DOLO- WHT OFF WHT- HD DNS TO BRITT, F-XLN IP TO V/ SUCRO MTRX ABDT IMBD SMLL ANG DOLO GRNS SCAT THRU, BRIT YEL FLO THRU, PR TO FR VIS INTER-XLN POR, NO VIS CUT OR SHOW

3360' DOLO- WHT OFF WHT HD DNS TO V/ BRITT, V/F-XLN TO TT SUCRO MTRX IP, ABDT IMBD DOLO ANG GRNS, BRIT YEL MIN FLO THRU, PR TO FR VIS INTER-XLN POR, NO VIS SHOW OR CUT

3380- DOLO OFF WHT WHT- HD V/ BRITT, V/ CRS SUCRO MTRX F-XLN IP, ABDT IMBD SMLL TO MD ANG DOLO GRNS THRU, BRIT YEL MIN FLO FR TO GD VIS INTER-XLN POR, NO VIS CUT OR SHOW

3400- DOLO- HD BRITT, F-XLN TO SUCRO MTRX, ABDT IMBD MD ANG DOLO GRNS THRU, HVY TR SFT WHT CHLK, BRIT YEL FLO, GD VIS INTER-XLN POR THRU, NO VIS SHOW

3420-3440 DOLO OFF WHT CRM -HD DNS TO BRITT IP, F-XLN TO SUCRO MTRX IP, ANG DOLO GRNS IMBD IP, HVY TR WHT CHRT IMBD IP, BRIT YEL FLO, PR TO FR VI INTER-XLN POR, NO VIS SHOW

R.T.D. @ 12:17 PM 5/10/2011

CFS & CTCH 2.5 HRS

DROP SURVEY

TOFL

WEATHERFORD / LIBERAL, KANSAS

