



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1085177
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

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

1085177

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	SHUBERT ET AL 1-31
Doc ID	1085177

All Electric Logs Run

ARRAY IND
DEN-NEUT
MICRO
SONIC
SPECTRAL

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



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

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

Sam Brownback, Governor

June 20, 2012

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

Re: ACO1
API 15-195-22764-00-00
SHUBERT ET AL 1-31
NW/4 Sec.31-11S-21W
Trego 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,
TOM FERTAL

ENHANCED COPY



QUALITY OILWELL CEMENTING, INC.

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

Date: 3/3/2012
Invoice # 636
P.O.#:
Due Date: 4/2/2012
Division: *Russell*

Invoice

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

Reference:
SHERBERT 1-31

Description of Work:
SURFACE JOB

<input checked="" type="checkbox"/> REG <input type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE <input type="checkbox"/> GG	
Account	8200. 138
Well/Prospect	
	<i>[Signature]</i>
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,005.76	No				
Common-Class A	190	\$ 2,553.16	Yes				
Bulk Truck Mat-Material Service Charge	200	\$ 440.58	No				
Pump Truck Mileage-Job to Nearest Camp	31	\$ 340.77	No				
Calcium Chloride	7	\$ 290.36	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	31	\$ 199.41	No				
Premium Gel (Bentonite)	3	\$ 53.79	Yes				

Invoice Terms:
Net 30

<i>SubTotal:</i>	\$ 4,883.83
<i>Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:</i>	
	\$ (732.57)
<hr/>	
SubTotal for Taxable Items:	\$ 2,462.72
SubTotal for Non-Taxable Items:	\$ 1,688.53
<hr/>	
Total:	\$ 4,151.25
Tax:	\$ 167.46
<hr/>	
Amount Due:	\$ 4,318.72
Applied Payments:	
Balance Due:	\$ 4,318.72

6.80% Trego 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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RECEIVED

MAR 09 2012

**SAMUEL GARY JR.
& ASSOCIATES, INC.**

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. 636

Date	31-12	Sec.	31	Twp.	11	Range	21	County	Trego	State	KS	On Location		Finish	5:00 PM
------	-------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	---------

Lease	Shohert	Well No.	1-31	Location	Ogallah W of Hickson Rd 1/2 E of Pinto
-------	---------	----------	------	----------	--

Contractor	Discovery #4	Owner	To Quality Oilwell Cementing, Inc.
------------	--------------	-------	------------------------------------

Type Job	Surface	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.	350	Charge To	Sam Cary Jr + Assoc
-----------	--------	------	-----	-----------	---------------------

Csg.	8 5/8	Depth	349	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.	20	Shoe Joint		Cement Amount Ordered	190 com 30/4 20/2d
---------------------	----	------------	--	-----------------------	--------------------

Meas Line		Displace	20.234		
-----------	--	----------	--------	--	--

EQUIPMENT

Pumptrk	5	No.	Cementer	Cary	Common	190
			Helper			
Bulktrk		No.	Driver	Brett	Poz. Mix	
			Driver			
Bulktrk	12	No.	Driver	Cary	Gel.	3
			Driver			

JOB SERVICES & REMARKS

Remarks:	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
8 5/8 on bottom. Est. Circulation	Sand
Mix 190 com & Displace.	Handling 200
Cement Circulation	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface
Mileage	31

Tax	
Discount	
Total Charge	

X Signature 



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

Date: 3/12/2012
 Invoice # 255

P.O.#:

Due Date: 4/13/2012

Division: Russell

Invoice

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

Reference:
 SCHUBERT 1-31

Description of Work:
 PROD LONG STRING

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No	Auto Fill Float Shoe, 5 1/2"	1	\$323.00	Yes
Common-Class A	225	\$ 2,897.50	Yes	Pump Truck Mileage-Job to Nearest Camp	31	\$326.57	No
Cement Port Collar, 5 1/2"	1	\$ 2,638.89	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$236.44	Yes
Gilsonite	1057	\$ 1,673.58	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	31	\$191.10	No
CFL 117	176	\$ 1,144.39	Yes	Flo Seal	56	\$118.22	Yes
5 1/2" Basket	4	\$ 971.11	Yes	KCL	2	\$63.04	Yes
5 1/2" Turbolizer	10	\$ 612.22	Yes				
Bulk Truck Matl-Material Service Charge	254	\$ 536.22	No				
CD-110	117	\$ 494.00	Yes				
Mud Clear	500	\$ 390.56	Yes				
Defoamer A or CAF-38	50	\$ 369.44	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 13,950.14

Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (2,092.52)

SubTotal for Taxable Items:	\$ 10,142.54
SubTotal for Non-Taxable Items:	\$ 1,715.08
Total:	\$ 11,857.62
Tax:	\$ 689.69

6.80% Trego County Sales Tax

Thank You For Your Business!

Amount Due: \$ 12,547.31
Applied Payments:
Balance Due: \$ 12,547.31

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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RECEIVED

MAR 15 2012

**SAMUEL GARY JR.
 & ASSOCIATES, INC.**

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval Description	

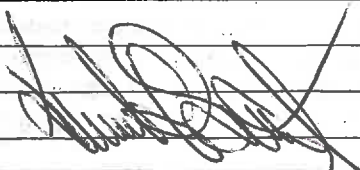
QUALITY OILWELL CEMENTING, INC.

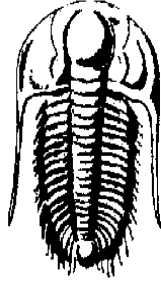
Federal Tax I.D.# 20-2886107

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

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

No. 255

Date	3/10/12	Sec.	31	Twp.	11	Range	22	County	Trego	State	KS	On Location		Finish	10:15pm	
Lease	Schubert		Well No.		1-31		Location Ogallah, 3N, 1E, E+S into									
Contractor	Discovery Drilling Rig #4							Owner 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.								
Type Job	Production String							Charge To Sam Gary Jr. + Associates, Inc.								
Hole Size	7 7/8"		T.D.		4080'		Street									
Csg.	5 1/2" 15,50#		Depth		4076'		City									
Tbg. Size			Depth				State									
Tool	Port Collar		Depth		1315'		The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	27'		Shoe Joint		27'		Cement Amount Ordered 2255y Q-Pro-C 10% salt									
Meas Line			Displace		96 1/2 Bbls.		5% Gilsonite 1/4# floater, 3% CD-110									
EQUIPMENT							Common .8% CFL-117, .25% CAF-38									
Pumptrk	9	No.	Cementer	Paul		Poz. Mix TCL 2 gal										
Bulktrk	14	No.	Driver	Matt		Gel.										
Bulktrk	AV	No.	Driver	Levi		Calcium CD 110 117#										
JOB SERVICES & REMARKS							Hulls									
Remarks:								Salt 19								
Rat Hole	305x							Flowseal 56#								
Mouse Hole	305x 155x							Kol-Seal 1057#								
Centralizers	1,3,5,7,9,11,13,15,67,69							Mud CLR 48 500gal. / 20 Bbls. KCL								
Baskets	3,9,15,68							CFL-117 or CD-110 CAF-38 50#								
Port Collar	Jt. #68 1315'							Sand 176#								
Est. Cinc.	- 1 hour							Handling 254								
Pump	500gal mud clear - 48							Mileage 8 1/2								
Plug Rat/Mouse								FLOAT EQUIPMENT								
Mix	180 sv down 5 1/2"							Guide Shoe								
Displace	- First 20 Bbl. KCL							Centralizer 8-Turbos + 2								
Land Plug	1500# 850# List							Baskets 4								
Float Head								AFU Inserts								
Thank You!!							Float Shoe 1									
							Latch Down 1									
							Port Collar Rotating Head									
Pumptrk Charge							prod Long String									
Mileage 31							Tax									
Signature 							Discount									
							Total Charge									



TRILOBITE
TESTING, INC.

DRILL STEMTEST REPORT

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

1515 Wynkoop Ste. #700
Denver, CO 80202

ATTN: Tom Fetal

Shubert ET AL 1-31

31/11S/21W-Trego

Start Date: 2012.03.04 @ 07:55:30

End Date: 2012.03.04 @ 15:46:30

Job Ticket #: 46923 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.03.04 @ 16:33:04



TRILOBITE TESTING, INC.

DRILL STEMTEST REPORT

Samuel Gary Jr. & Associates, Inc.

31/11S/21W-Trego

1515 Wynkoop Ste. #700
Denver, CO 80202

Shubert ET AL 1-31

ATTN: Tom Fernal

Job Ticket: 46923

DST#: 1

Test Start: 2012.03.04 @ 07:55:30

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: Nb Whipstock ft (KB)

Time Tool Opened: 09:44:10

Time Test Ended: 15:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit Nr: 38

Interval: **3358.00 ft (KB) To 3387.00 ft (KB) (TVD)**

Reference Elevations: 2315.00 ft (KB)

Total Depth: 3387.00 ft (KB) (TVD)

2307.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 56.08 psig @ 3362.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.04

End Date:

2012.03.04

Last Calib.: 2012.03.04

Start Time: 08:05:30

End Time:

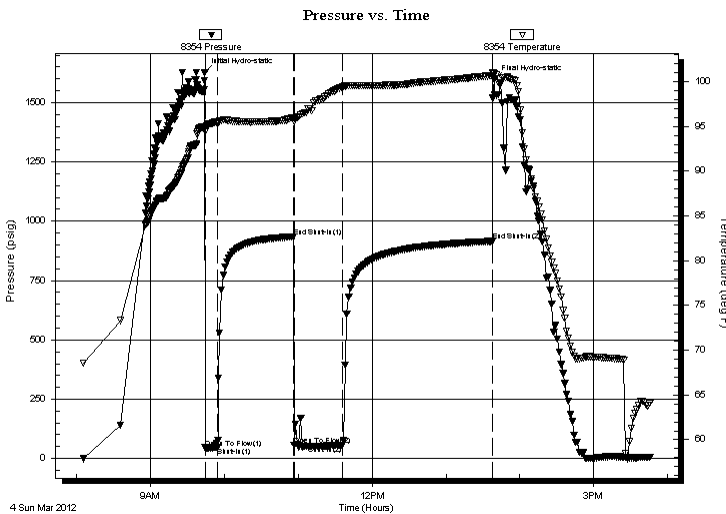
15:46:30

Time On Btm: 2012.03.04 @ 09:44:00

Time Off Btm: 2012.03.04 @ 13:39:00

TEST COMMENT: IF-Very weak building blow. Built to 1/2 inch.
IS-No Return.
FF-Very weak building blow. Built to 1 inch.
FS-No Return. Times- 10-60-40-120

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.48	94.85	Initial Hydro-static
1	44.93	94.40	Open To Flow (1)
11	45.35	95.42	Shut-In (1)
72	934.59	95.96	End Shut-In (1)
73	56.41	95.58	Open To Flow (2)
112	56.08	99.38	Shut-In (2)
234	915.40	100.69	End Shut-In (2)
235	1597.31	100.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	2% Oil/10% Water/88% Mud	0.56
10.00	2% Oil/98% Mud	0.14

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEMTEST REPORT

Samuel Gary Jr. & Associates, Inc.

31/11S/21W-Trego

1515 Wynkoop Ste. #700
Denver, CO 80202

Shubert ET AL 1-31

Job Ticket: 46923 **DST#: 1**

ATTN TomFertal

Test Start: 2012.03.04 @ 07:55:30

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: Nb Whipstock ft (KB)

Time Tool Opened: 09:44:10

Time Test Ended: 15:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit Nr: 38

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Reference Elevations: 2315.00 ft (KB)

Total Depth: 3387.00 ft (KB) (TVD)

2307.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: **8520** Outside

Press@RunDepth: psig @ 3362.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.04 End Date: 2012.03.04

Last Calib.: 2012.03.04

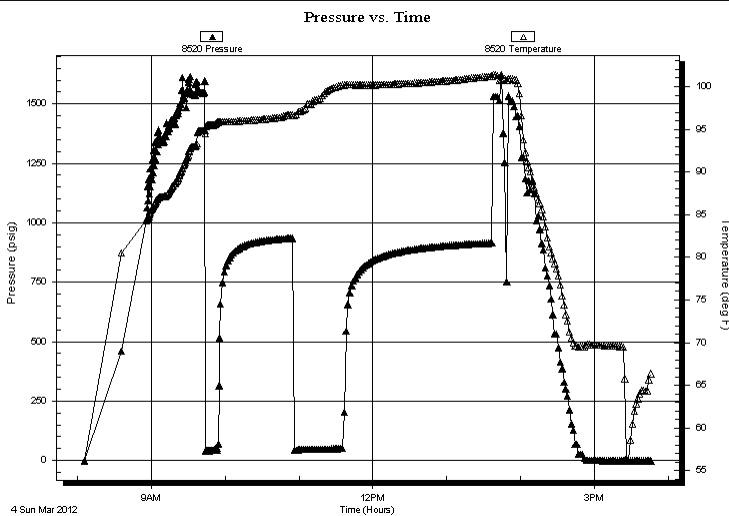
Start Time: 08:05:45 End Time: 15:46:15

Time On Btm

Time Off Btm

TEST COMMENT: IF-Very weak building blow. Built to 1/2 inch.
IS-Nb Return.
FF-Very weak building blow. Built to 1 inch.
FS-Nb Return. Times- 10-60-40-120

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Vdume (bbl)
60.00	2%Oil/10%Water/88%Mud	0.56
10.00	2%Oil/98%Mud	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEMTEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates, Inc.

31/11S/21W-Trego

1515 Wynkoop Ste. #700
Denver, CO 80202

Shubert ET AL 1-31

Job Ticket: 46923

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.03.04 @ 07:55:30

Tool Information

Drill Pipe:	Length: 3328.00 ft	Diameter: 3.80 inches	Volume: 46.68 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: 28000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 25000.00 lb
			<u>Total Volume: 46.83 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3358.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	59.00 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	3328.00	
Change Over Sub	1.00			3329.00	
Shut In Tool	5.00			3334.00	
Sampler	2.00			3336.00	
Hydraulic tool	5.00			3341.00	
Jars	5.00			3346.00	
Safety Joint	3.00			3349.00	
Packer	5.00			3354.00	30.00 Bottom Of Top Packer
Packer	4.00			3358.00	
Stubb	1.00			3359.00	
Perforations	3.00			3362.00	
Recorder	0.00	8354	Inside	3362.00	
Recorder	0.00	8520	Outside	3362.00	
Perforations	22.00			3384.00	
Bullnose	3.00			3387.00	29.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEMTEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

31/11S/21W-Trego

1515 Wynkoop Ste. #700
Denver, CO 80202

Shubert ET AL 1-31

Job Ticket: 46923

DST#: 1

ATTN: Tom Feral

Test Start: 2012.03.04 @ 07:55:30

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 7.60 cm³
Resistivity: ohmm
Salinity: 1000.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	2%OI/10%Water/88%Mud	0.559
10.00	2%OI/98%Mud	0.140

Total Length: 70.00ft Total Volume: 0.699 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-4000ML total. 600ML-Mud. 3400ML Water. 90# Pressure.
Chlorides- .153@64= 54,000 chlorides.

Serial # 8354

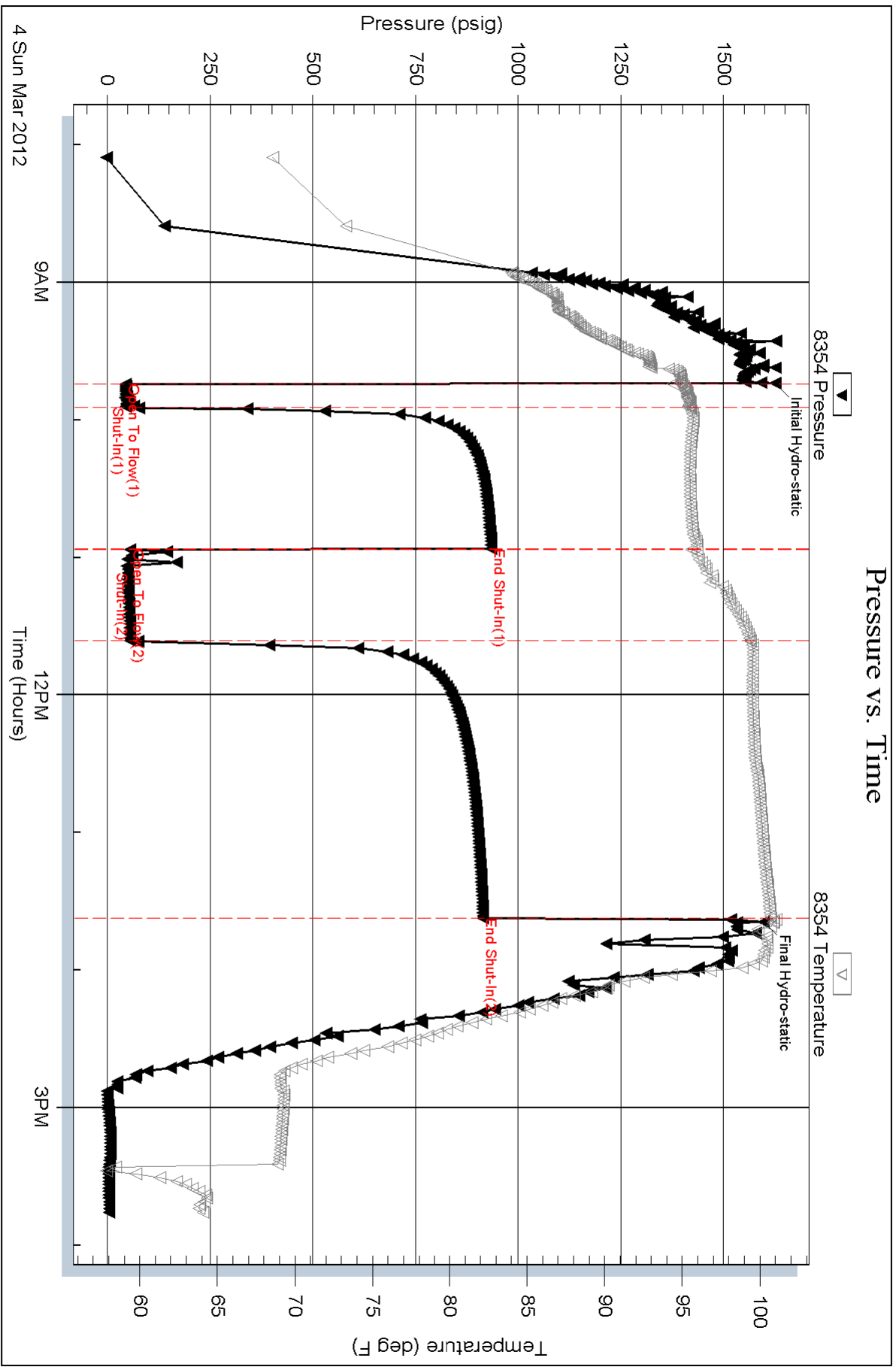
Inside

Samuel Gary J. & Associates, Inc.

Shubert ETAL 1-31

DSTest Number: 1

Pressure vs. Time



Triiodide Testing, Inc

Ref. No: 48923

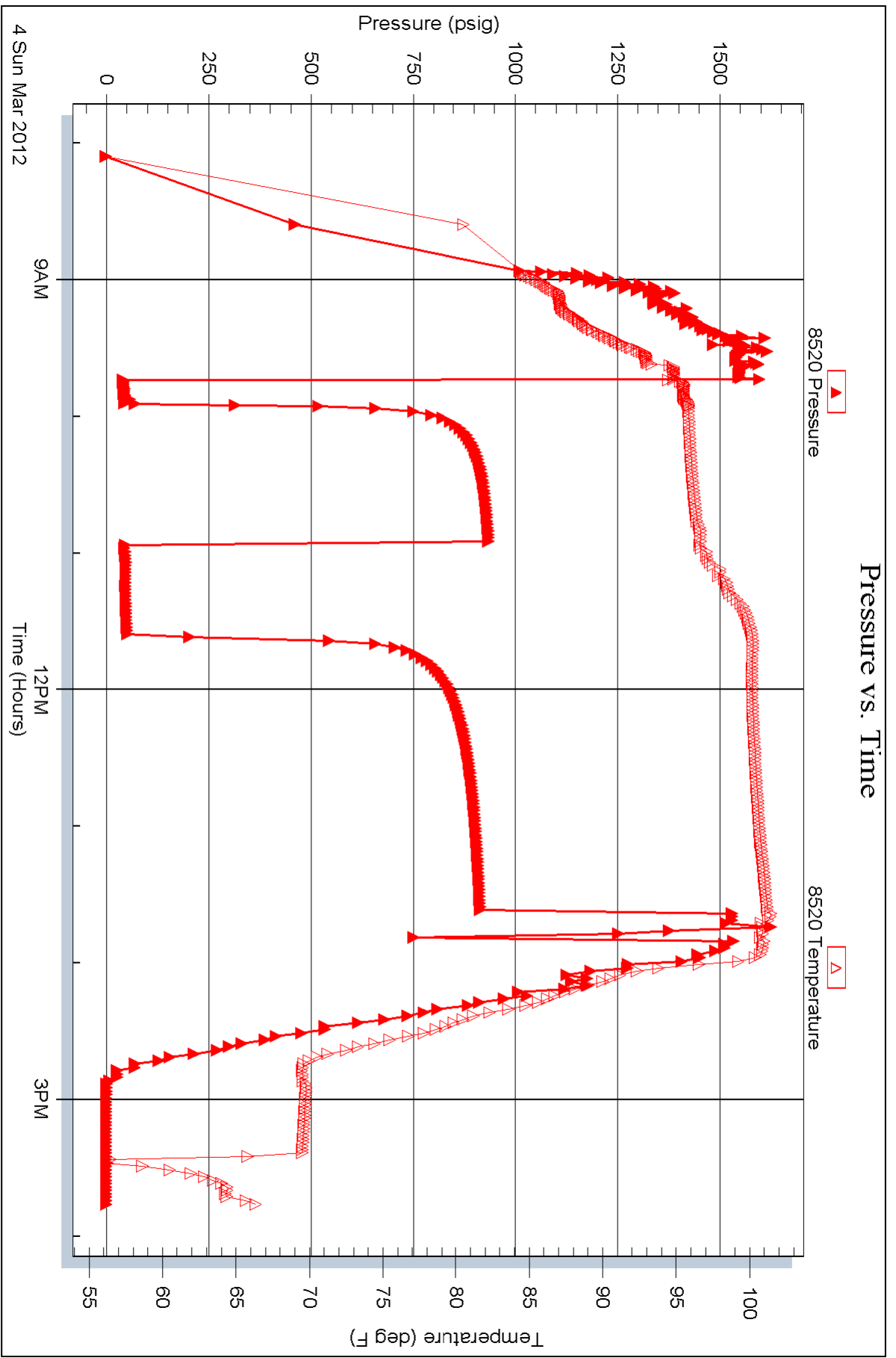
Printed: 2012.03.04 @ 16:33:06

Serial # 8520

Outside Samuel Gary J. & Associates, Inc.

Subert ETAL 1-31

DSTest Number: 1



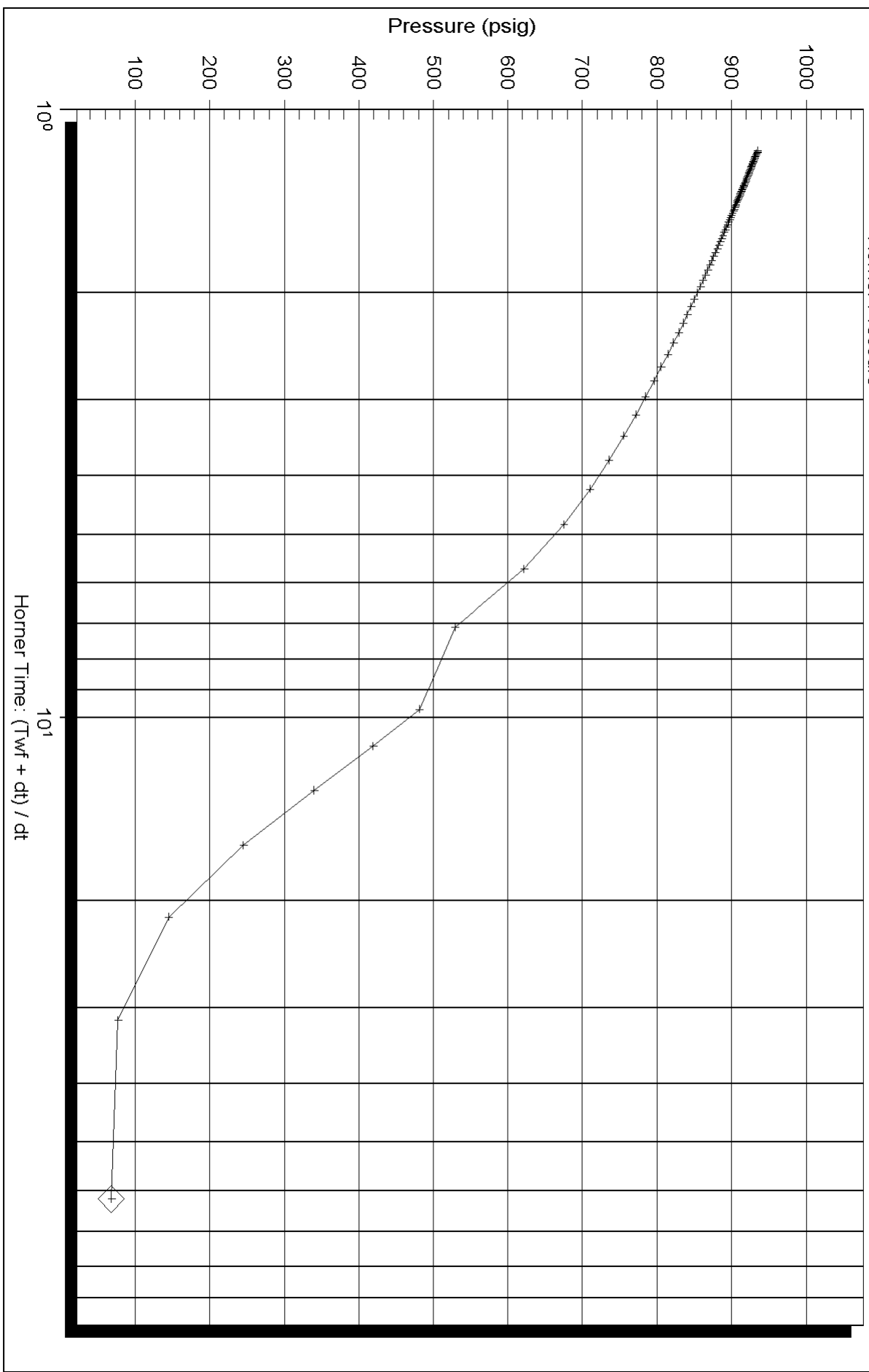
Thiokol Testing, Inc

Ref. No: 48923

Printed: 2012.03.04 @ 16:33:06

Horner Plot

Horner Pressure +



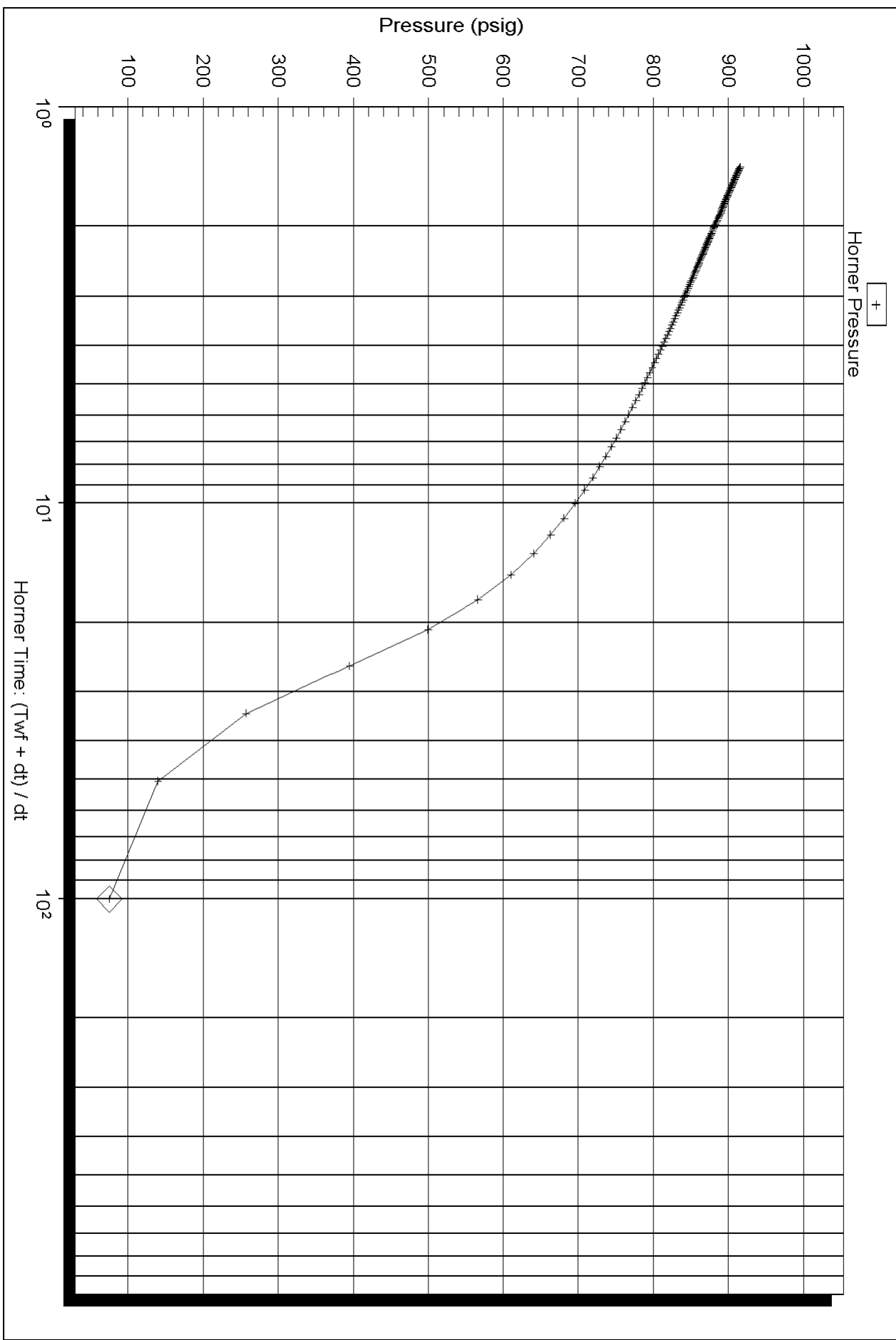
Serial Number: 8364 (Inside)

Pr :

Slope (m) : kpa/log cycle

Flow/Cycle: 1

Horner Plot



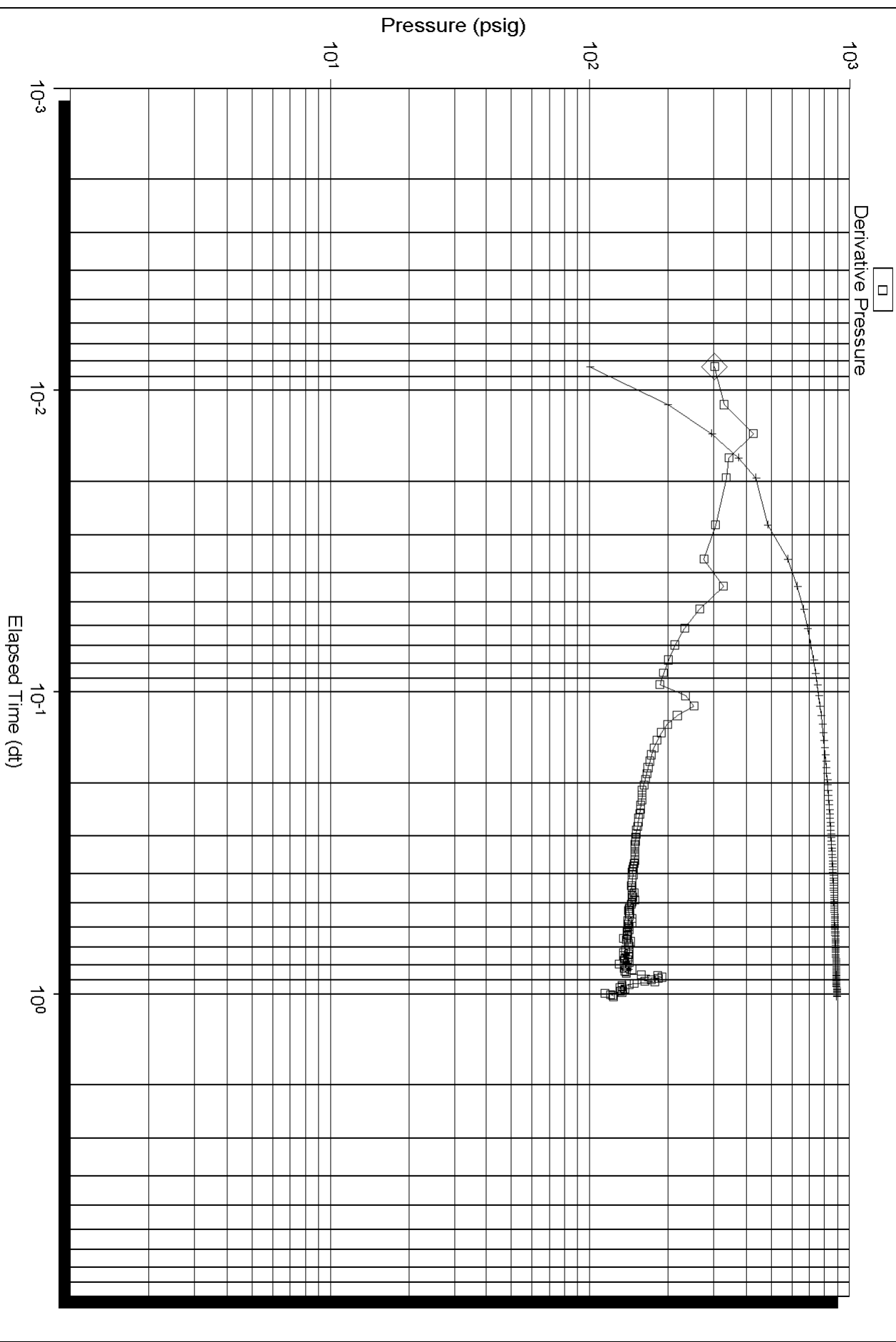
Serial Number: 8364 (Inside)

Pr:

Slope (m) : kpa/log cycle

Flow/Cycle: 2

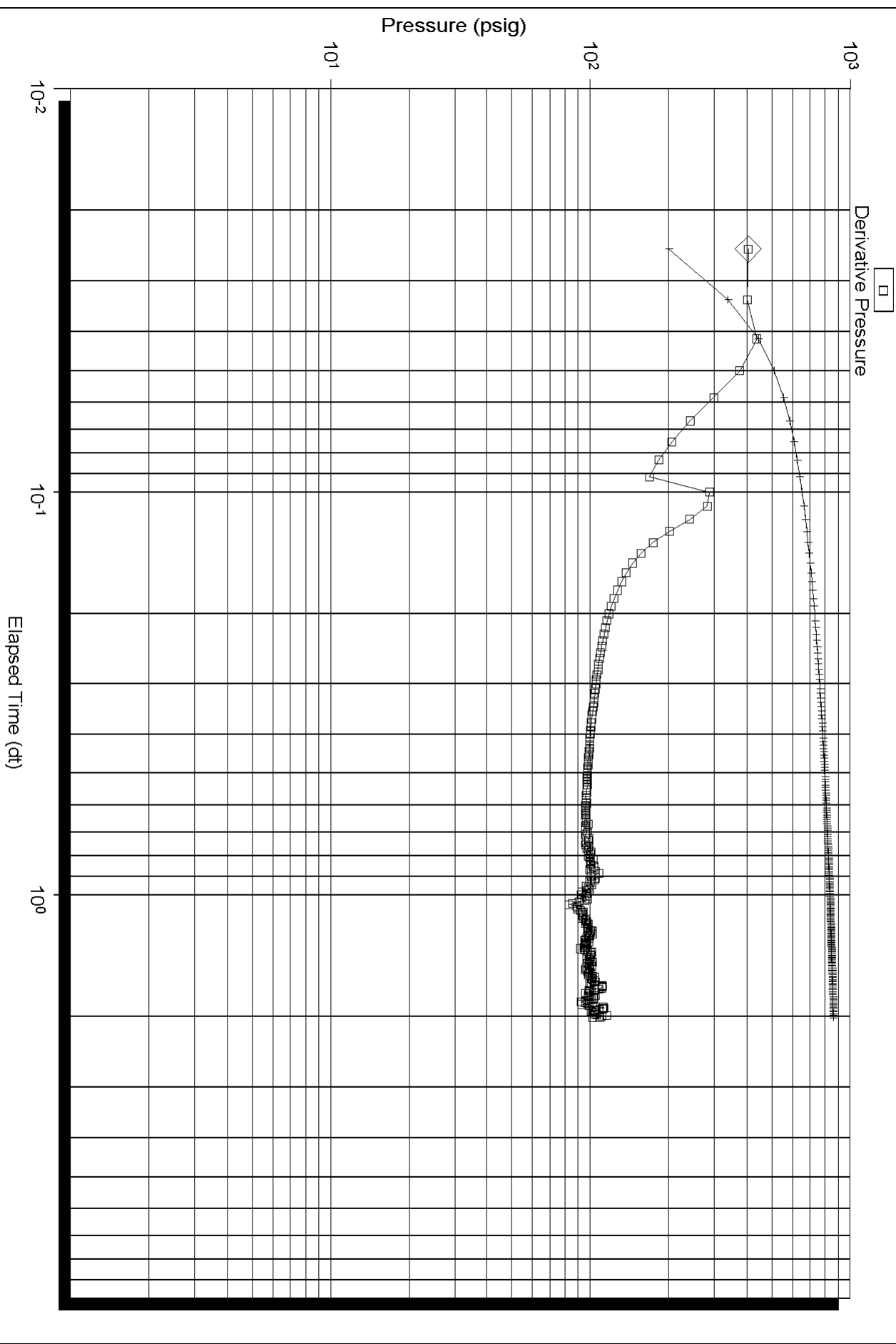
Log-Log and Pseudo-Derivative

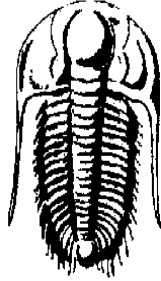


Serial Number: 8364 (Inside)

Flow Cycle: 1

Log-Log and Pseudo-Derivative





**TRILOBITE
TESTING, INC.**

DRILL STEMTEST REPORT

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

1515 Wynkoop Ste. #700
Denver, CO 80202

ATTN: Tom Fetal

Shubert ET AL 1-31

31/11S/21W-Trego

Start Date: 2012.03.05 @ 19:20:15

End Date: 2012.03.06 @ 04:07:15

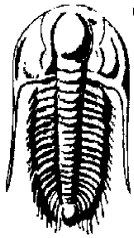
Job Ticket #: 46924 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.03.06 @ 04:31:37



TRILOBITE TESTING, INC.

DRILL STEMTEST REPORT

Samuel Gary Jr. & Associates, Inc.

31/11S/21W-Trego

1515 Wynkoop Ste. #700
Denver, CO 80202

Shubert ET AL 1-31

ATTN: Tom Fernal

Job Ticket: 46924

DST#: 2

Test Start: 2012.03.05 @ 19:20:15

GENERAL INFORMATION:

Formation: **LKC "A-C**

Deviated: Nb Whipstock ft (KB)

Time Tool Opened: 21:12:45

Time Test Ended: 04:07:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: **3603.00 ft (KB) To 3650.00 ft (KB) (TVD)**

Reference Elevations: 2315.00 ft (KB)

Total Depth: 3650.00 ft (KB) (TVD)

2307.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 110.45 psig @ 3607.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.05

End Date:

2012.03.06

Last Calib:

2012.03.06

Start Time: 19:30:15

End Time:

04:07:15

Time On Btm

2012.03.05 @ 21:12:35

Time Off Btm

2012.03.06 @ 01:43:15

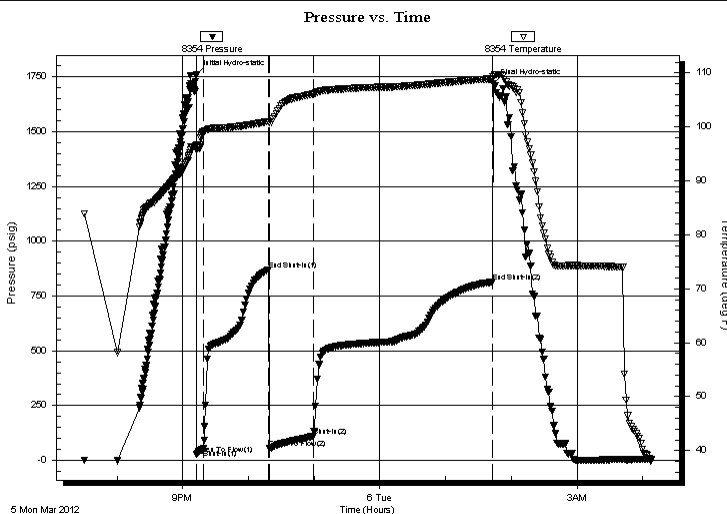
TEST COMMENT: IF-Fair building blow. Built to 6 inches.

IS-No Return.

FF-Strong building blow. BCB in 5 minutes 45 seconds.

FSI-Return @ 10 seconds. Built to 3&1/2 inches. Times-5-60-40-160

PRESSURE SUMMARY



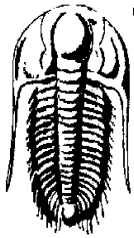
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.00	96.61	Initial Hydro-static
1	29.09	95.78	Open To Flow(1)
7	51.90	99.07	Shut-In(1)
66	868.71	101.00	End Shut-In(1)
67	55.67	100.83	Open To Flow(2)
107	110.45	106.09	Shut-In(2)
271	814.23	108.92	End Shut-In(2)
271	1718.85	109.29	Final Hydro-static

Recovery

Length (ft)	Description	Vdume (bbl)
62.00	10% Gas/10% Oil/10% Water/70% Mud	0.59
93.00	10% Gas/10% Oil/80% Mud	1.30
62.00	60% Gas/40% Oil	0.87
0.00	589 G.I.P.	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

31/11S/21W-Trego

1515 Wynkoop Ste. #700
Denver, CO 80202

Shubert ET AL 1-31

ATTN: Tom Fertal

Job Ticket: 46924

DST#: 2

Test Start: 2012.03.05 @ 19:20:15

GENERAL INFORMATION:

Formation: **LKC "A-C**
 Deviated: **Nb Whipstock** ft (KB)
 Time Tool Opened: 21:12:45
 Time Test Ended: 04:07:15
 Interval: **3603.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Total Depth: **3650.00 ft (KB) (TVD)**
 Hble Diameter: **7.88 inches** Hble Condition: **Good**

Test Type: **Conventional Bottom Hble (Initial)**
 Tester: **Dustin Rash**
 Unit Nr: **38**
 Reference Elevations: **2315.00 ft (KB)**
2307.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8520

Outside

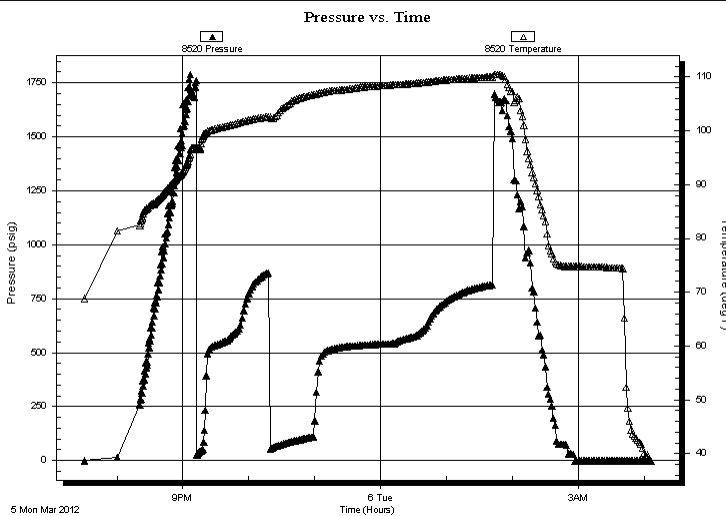
Press @ Run Depth: psig @ 3607.00 ft (KB)
 Start Date: 2012.03.05 End Date: 2012.03.06
 Start Time: 19:30:30 End Time: 04:07:00

Capacity: 8000.00 psig
 Last Calib.: 2012.03.06
 Time On Btm
 Time Off Btm

TEST COMMENT:

IF-Fair building blow. Built to 6 inches.
 IS-Nb Return.
 FF-Strong building blow. BCB in 5 minutes 45 seconds.
 FS-Return @ 10 seconds. Built to 3&1/2 inches. Times-5-60-40-160

PRESSURE SUMMARY



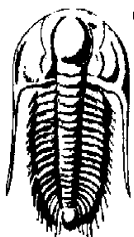
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Vdume (tbl)
62.00	10% Gas / 10% Oil / 10% Water / 70% Mud	0.59
93.00	10% Gas / 10% Oil / 80% Mud	1.30
62.00	60% Gas / 40% Oil	0.87
0.00	589 G.I.P.	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEMTEST REPORT

Samuel Gary Jr. & Associates, Inc.

31/11S/21W-Tregoe

1515 Wynkoop Ste. #700
Denver, CO 80202

Shubert ET AL 1-31

Job Ticket: 46924 **DST#: 2**

ATTN TomFertal

Test Start: 2012.03.05 @ 19:20:15

GENERAL INFORMATION:

Formation: **LKC "A-C**

Deviated: **Nb Whipstock** ft (KB)

Time Tool Opened: 21:12:45

Time Test Ended: 04:07:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit Nr: 38

Interval: 3603.00 ft (KB) To 3650.00 ft (KB) (TVD)

Total Depth: 3650.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches-Hole Condition: Good

Reference Elevations: 2315.00 ft (KB)

2307.00 ft (CF)

KB to CR/CF: 8.00 ft

Serial #: 8653 Fluid

Press @ Run Depth: _____ psig @ 3573.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.05

End Date: 2012.03.06

Last Calib.: 2012.03.06

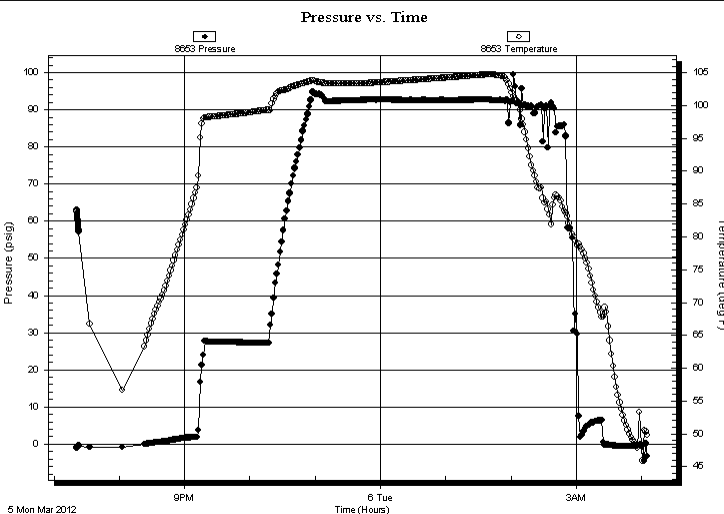
Start Time: 19:20:46

End Time: 04:05:15

Time On Btm

Time Off Btm

TEST COMMENT: IF-Fair building blow. Built to 6 inches.
IS-Nb Return.
FF-Strong building blow. BCB in 5 minutes 45 seconds.
FSI-Return @ 10 seconds. Built to 3 & 1/2 inches. Times-5-60-40-160



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Vdume (bbl)
62.00	10% Gas/10% Oil/10% Water/70% Mud	0.59
93.00	10% Gas/10% Oil/80% Mud	1.30
62.00	60% Gas/40% Oil	0.87
0.00	589 G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEMTEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates, Inc.

31/11S/21W-Trego

1515 Wynkoop Ste. #700
Denver, CO 80202

Shubert ET AL 1-31

Job Ticket: 46924

DST#: 2

ATTN: Tom Fertal

Test Start: 2012.03.05 @ 19:20:15

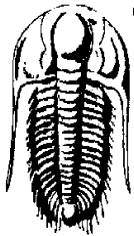
Tool Information

Drill Pipe:	Length: 3550.00 ft	Diameter: 3.80 inches	Volume: 49.80 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: 27000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 49.95 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3603.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	77.00 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	3573.00	
Change Over Sub	1.00			3574.00	
Shut In Tool	5.00			3579.00	
Sampler	2.00			3581.00	
Hydraulic tool	5.00			3586.00	
Jars	5.00			3591.00	
Safety Joint	3.00			3594.00	
Packer	5.00			3599.00	30.00 Bottom Of Top Packer
Packer	4.00			3603.00	
Stubb	1.00			3604.00	
Perforations	3.00			3607.00	
Recorder	0.00	8354	Inside	3607.00	
Recorder	0.00	8520	Outside	3607.00	
Change Over Sub	1.00			3608.00	
Drill Pipe	31.00			3639.00	
Change Over Sub	1.00			3640.00	
Perforations	7.00			3647.00	
Bullnose	3.00			3650.00	47.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC.**

DRILL STEMTEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

31/11S/21W-Trego

1515 Wynkoop Ste. #700
Denver, CO 80202

Shubert ET AL 1-31

Job Ticket: 46924

DST#: 2

ATTN Tom Fertal

Test Start: 2012.03.05 @ 19:20:15

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 7.80 cm³
Resistivity: ohmm
Salinity: 4800.00 ppm
Filter Cake: inches

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

Oil API: 40 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	10% Gas/10% Oil/10% Water/70% Mud	0.587
93.00	10% Gas/10% Oil/80% Mud	1.305
62.00	60% Gas/40% Oil	0.870
0.00	589 G.I.P.	0.000

Total Length: 217.00ft Total Volume: 2.762 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler-350# pressure. 1.25 cubic feet gas. 2800 ML Oil.
1200 ML Gas. 40 Gravity.

Serial # 8354

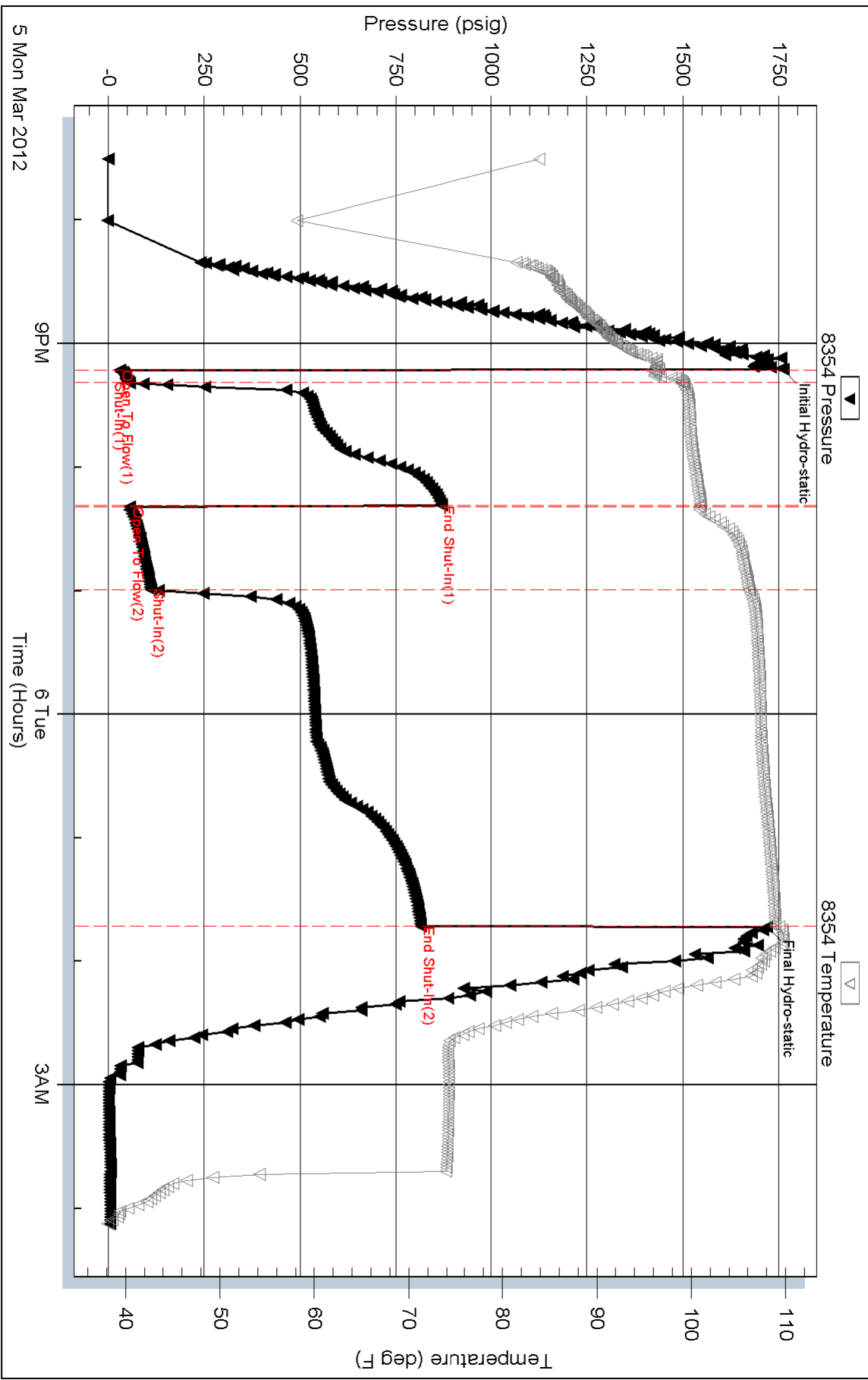
Inside

Samuel Gary J. & Associates, Inc.

Shubert ETAL 1-31

DST Test Number: 2

Pressure vs. Time



Triadite Testing, Inc

Ref. No: 48924

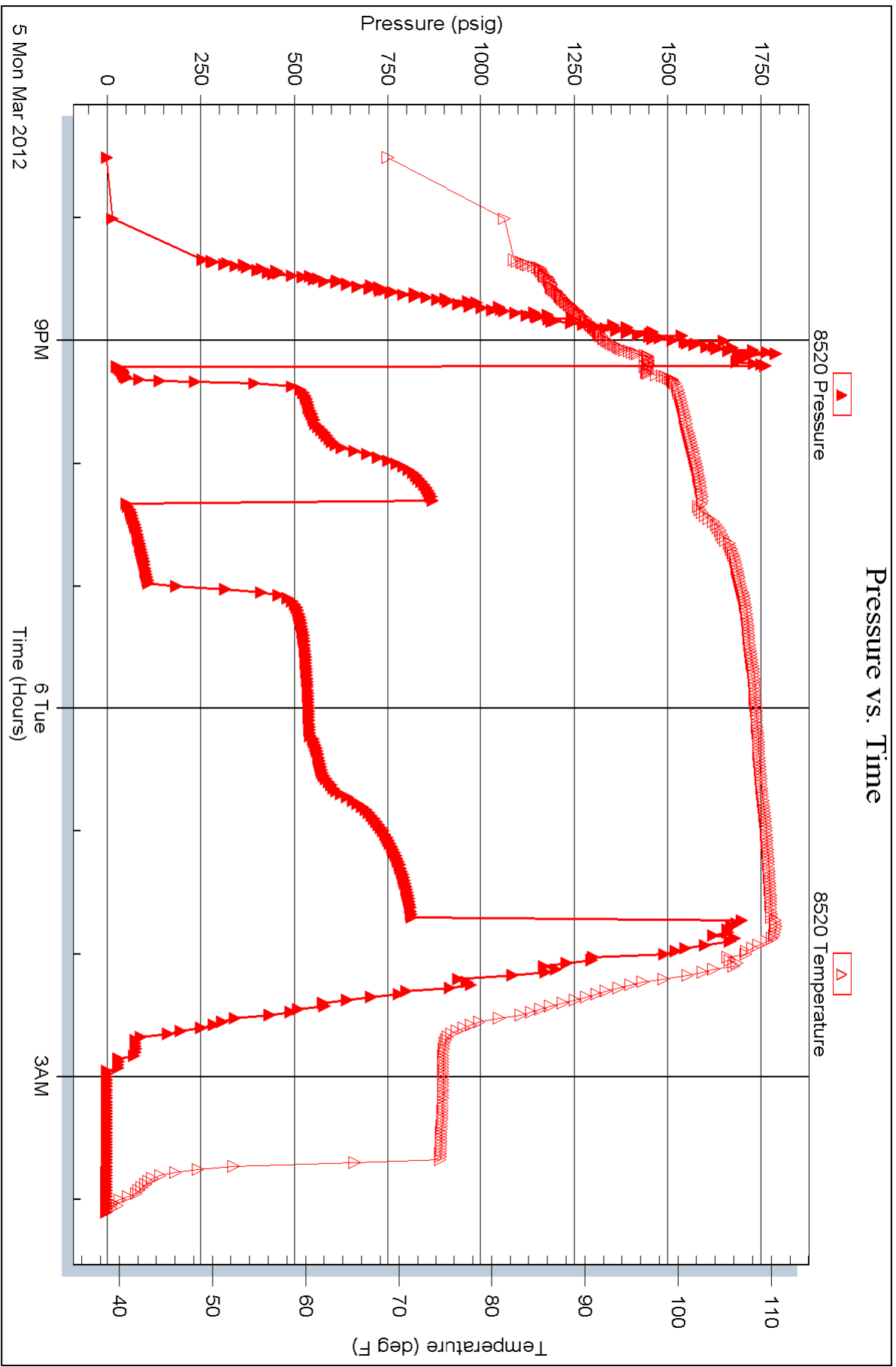
Printed: 2012.03.06 @04:31:39

Serial # 8520

Outside Samuel Gary J. & Associates, Inc.

Shubert ETAL 1-31

DSTest Number: 2



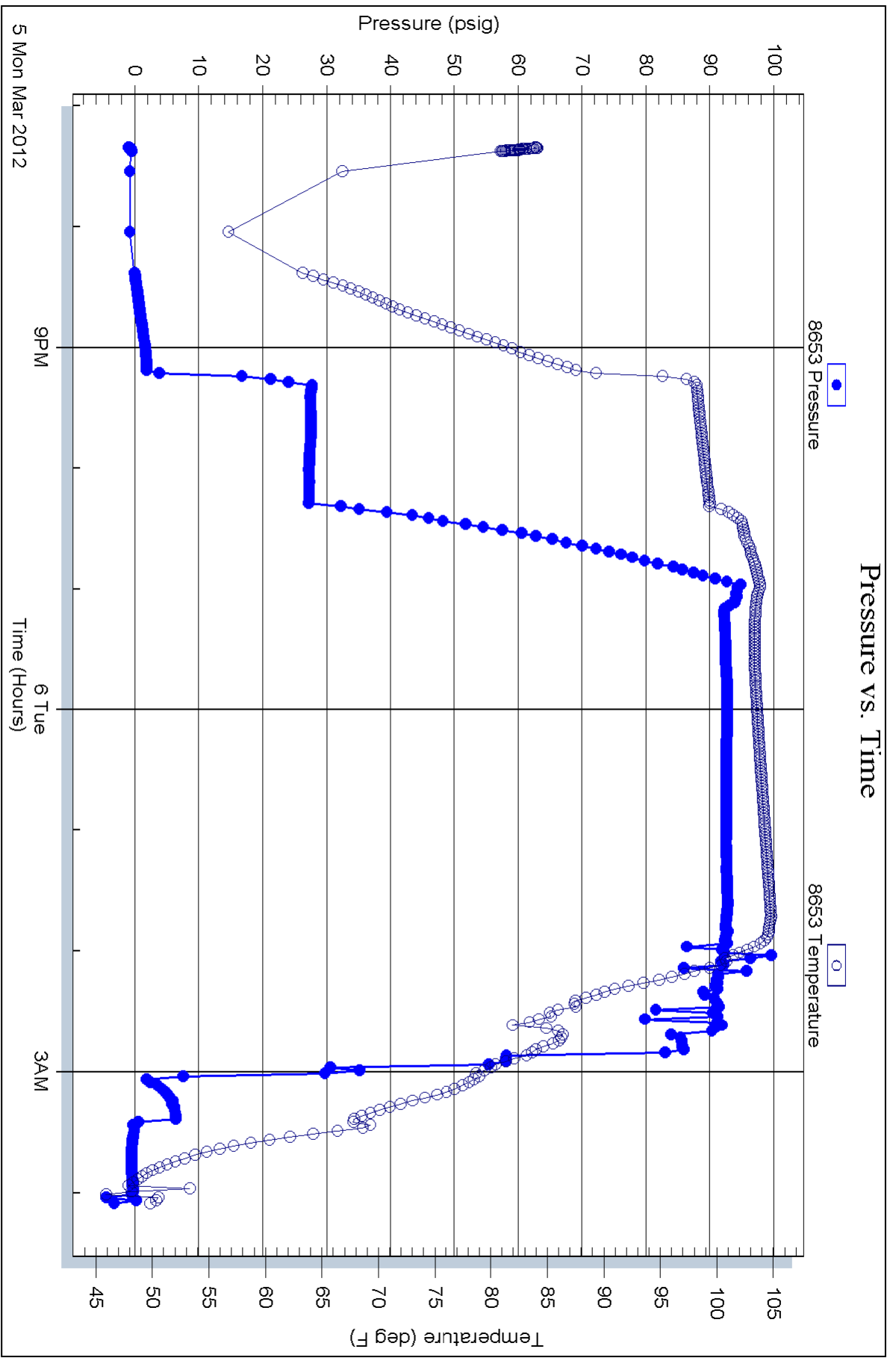
Serial # 8653

Fluid

Samuel Gary J. & Associates, Inc.

Shubert ETAL 1-31

DST Test Number: 2

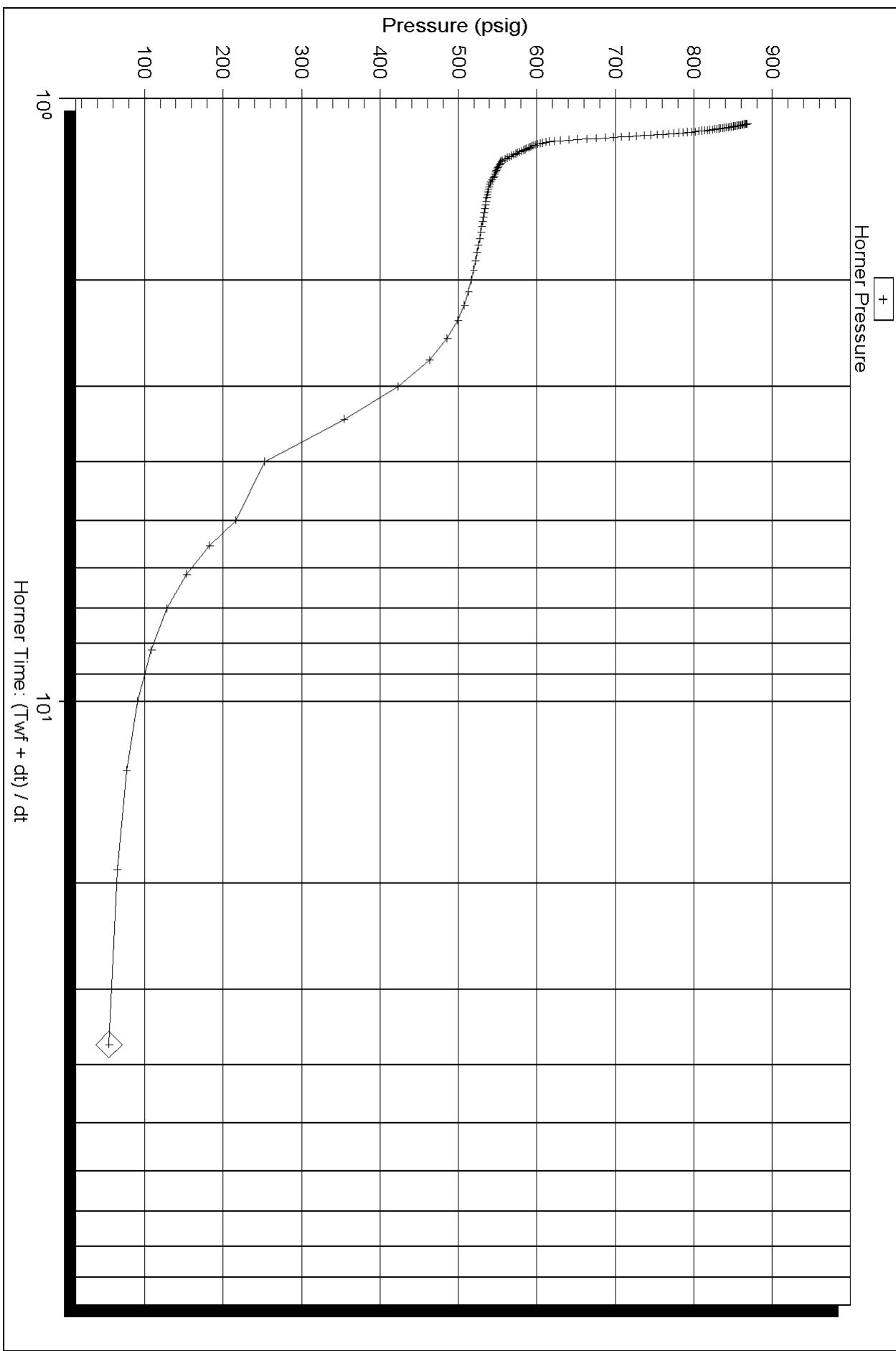


Triiodide Testing, Inc

Ref. No: 48924

Printed: 2012.03.06 @04:31:39

Horner Plot



Serial Number: 8364 (Inside)

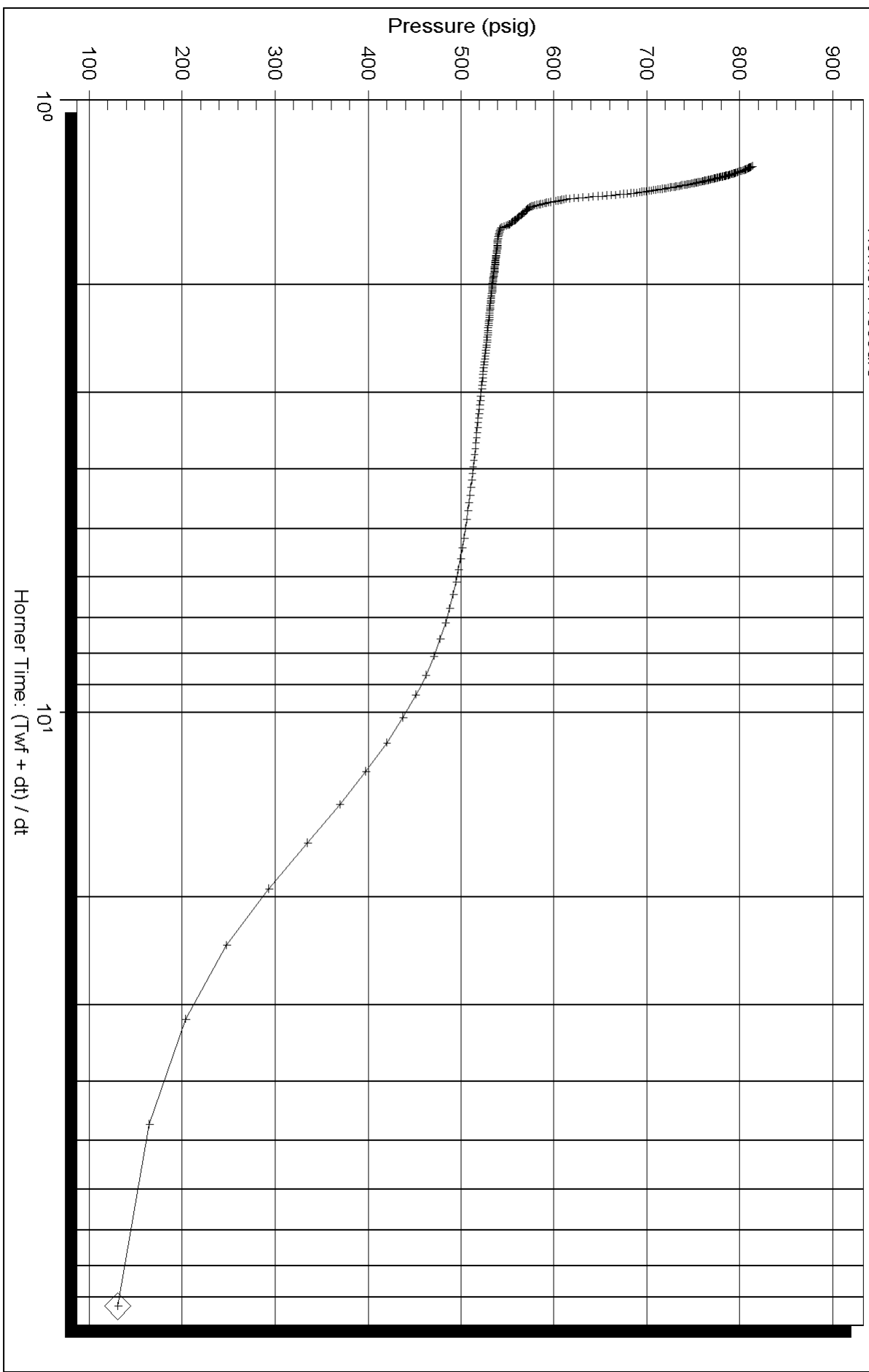
P_r :

Slope (m) : kpa/log cycle

Flow/Cycle: 1

Horner Plot

Horner Pressure +



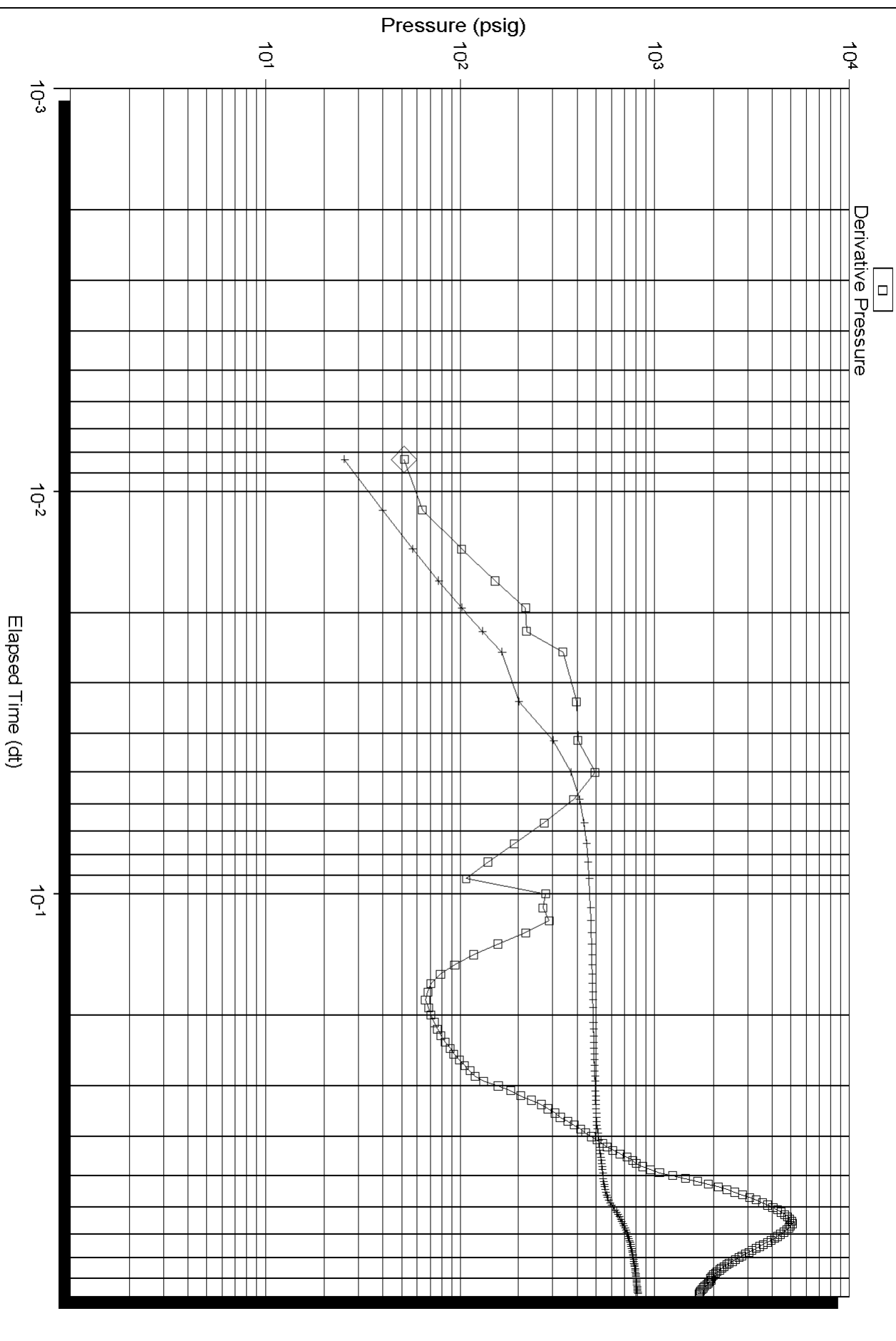
Serial Number: 8364 (Inside)

Pr :

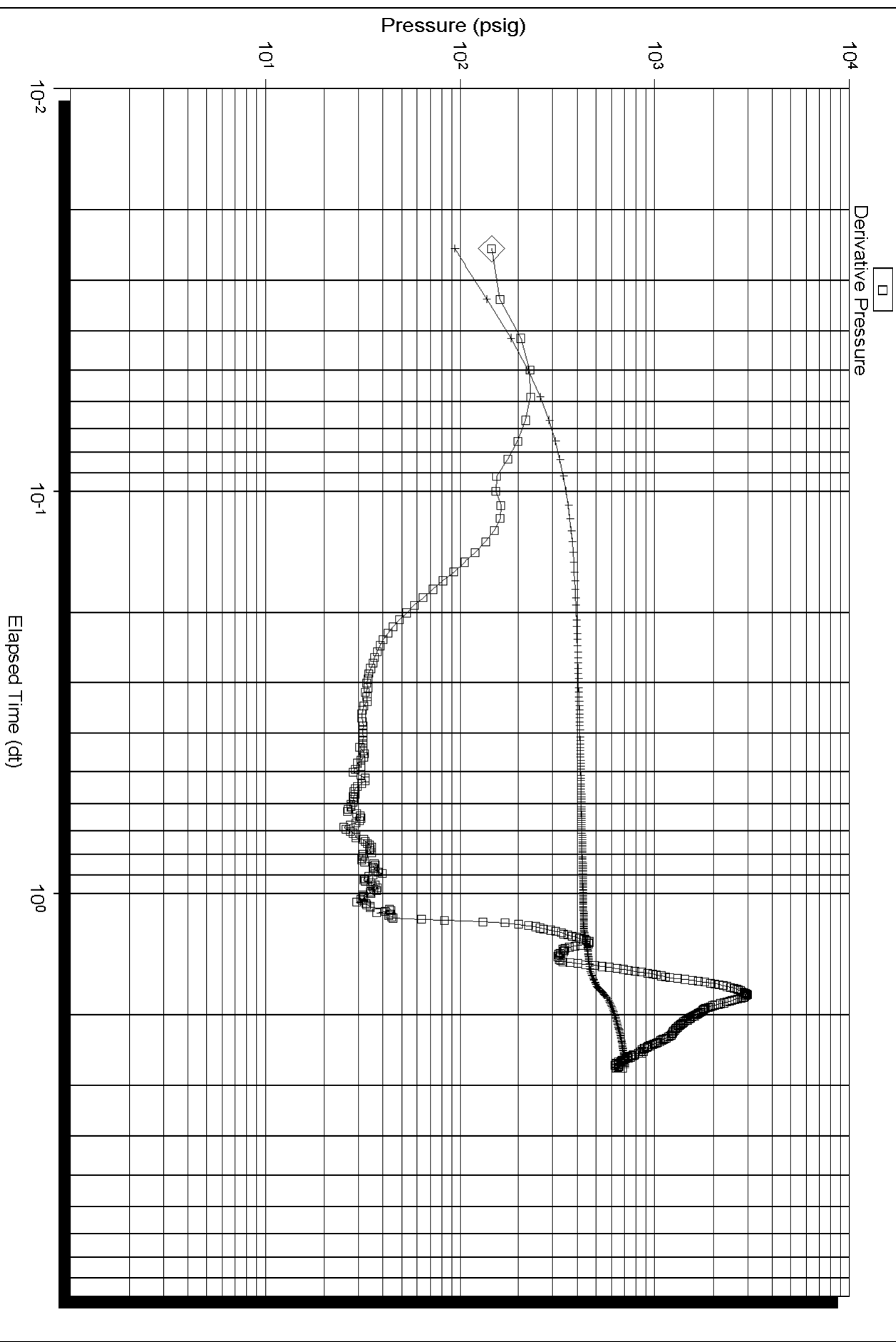
Slope (m) : kpa/log cycle

Flow/Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative



Serial Number: 8364 (Inside)

Flow Cycle: 2



DRILL STEM TEST REPORT

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

1515 Wynkoop Ste. #700
Denver, CO 80202

ATTN: Tom Fertal

Shubert ET AL 1-31

31/11S/21W-Trego

Start Date: 2012.03.09 @ 06:56:15

End Date: 2012.03.09 @ 14:20:15

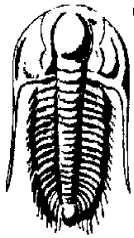
Job Ticket #: 46925 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.03.10 @ 15:10:34



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

31/11S/21W-Trego

1515 Wynkoop Ste. #700
Denver, CO 80202

Shubert ET AL 1-31

ATTN: Tom Fertal

Job Ticket: 46925

DST#: 3

Test Start: 2012.03.09 @ 06:56:15

GENERAL INFORMATION:

Formation: **Basal Penn Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:05:45

Time Test Ended: 14:20:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3913.00 ft (KB) To 3967.00 ft (KB) (TVD)

Reference Elevations: 2315.00 ft (KB)

Total Depth: 3967.00 ft (KB) (TVD)

2307.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 46.97 psig @ 3917.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.09

End Date:

2012.03.09

Last Calib.:

2012.03.09

Start Time: 07:06:15

End Time:

14:20:15

Time On Btm:

2012.03.09 @ 09:05:15

Time Off Btm:

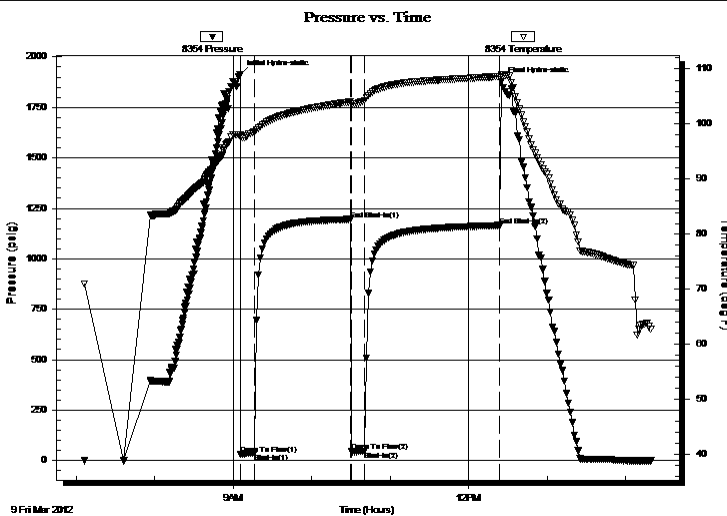
2012.03.09 @ 12:25:15

TEST COMMENT: IF-Very weak surface blow. Died @ 5 minutes.

ISI-No Return.

FF-Few surface bubbles.

FSI-No Return. Times-10-75-10-100



PRESSURE SUMMARY

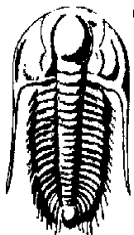
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1913.48	98.11	Initial Hydro-static
1	30.01	97.61	Open To Flow (1)
11	37.43	98.56	Shut-In(1)
85	1195.06	104.06	End Shut-In(1)
85	45.07	103.69	Open To Flow (2)
95	46.97	104.31	Shut-In(2)
199	1164.75	108.65	End Shut-In(2)
200	1877.23	109.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	90%Mud/10%Water	0.07

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop Ste. #700
Denver, CO 80202

ATTN: Tom Fertal

31/11S/21W-Trego

Shubert ET AL 1-31

Job Ticket: 46925

DST#: 3

Test Start: 2012.03.09 @ 06:56:15

GENERAL INFORMATION:

Formation: **Basal Penn Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:05:45

Time Test Ended: 14:20:15

Interval: 3913.00 ft (KB) To 3967.00 ft (KB) (TVD)

Total Depth: 3967.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Reference Elevations: 2315.00 ft (KB)

2307.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8520

Outside

Press @ RunDepth: psig @ 3917.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.09

End Date: 2012.03.09

Last Calib.: 2012.03.09

Start Time: 07:06:30

End Time: 14:20:00

Time On Btm:

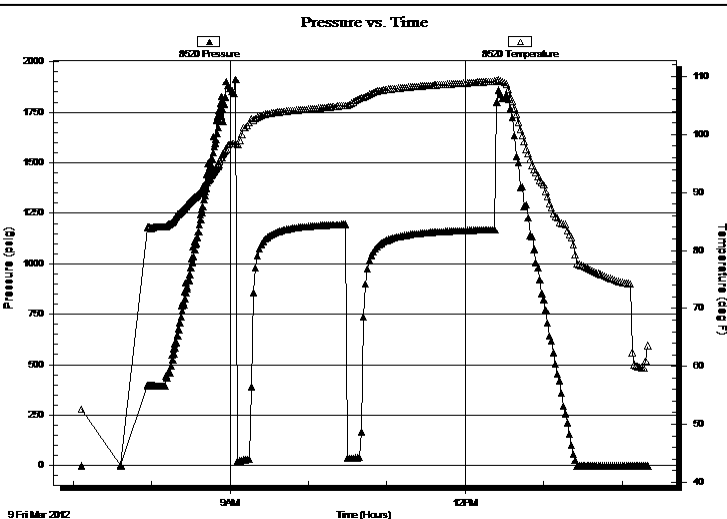
Time Off Btm:

TEST COMMENT: IF-Very weak surface blow. Died @ 5 minutes.

ISI-No Return.

FF-Few surface bubbles.

FSI-No Return. Times-10-75-10-100



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	90%Mud/10%Water	0.07

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

31/11S/21W-Trego

1515 Wynkoop Ste. #700
Denver, CO 80202

Shubert ET AL 1-31

Job Ticket: 46925

DST#: 3

ATTN: Tom Fertal

Test Start: 2012.03.09 @ 06:56:15

GENERAL INFORMATION:

Formation: **Basal Penn Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:05:45

Time Test Ended: 14:20:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3913.00 ft (KB) To 3967.00 ft (KB) (TVD)

Reference Elevations: 2315.00 ft (KB)

Total Depth: 3967.00 ft (KB) (TVD)

2307.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8653 Fluid

Press @ Run Depth: psig @ 3883.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.09 End Date: 2012.03.09

Last Calib.: 2012.03.09

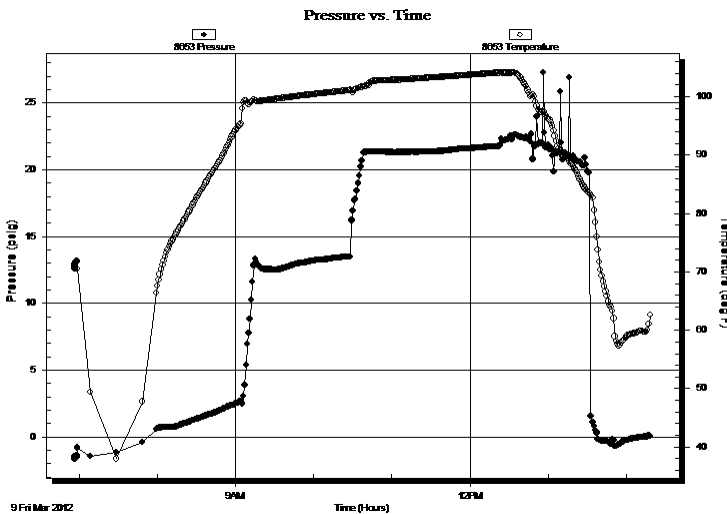
Start Time: 06:56:46 End Time: 14:18:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Very weak surface blow. Died @ 5 minutes.
IS-No Return.
FF-Few surface bubbles.
FS-No Return. Times-10-75-10-100

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	90%Mud/10%Water	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates, Inc.

31/11S/21W-Trego

1515 Wynkoop Ste. #700
Denver, CO 80202

Shubert ET AL 1-31

Job Ticket: 46925

DST#: 3

ATTN: Tom Fertal

Test Start: 2012.03.09 @ 06:56:15

Tool Information

Drill Pipe:	Length: 3860.00 ft	Diameter: 3.80 inches	Volume: 54.15 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: 28000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 20000.00 lb
			<u>Total Volume: 54.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3913.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Recorder	0.00	8653	Fluid	3883.00	
Change Over Sub	1.00			3884.00	
Shut In Tool	5.00			3889.00	
Sampler	2.00			3891.00	
Hydraulic tool	5.00			3896.00	
Jars	5.00			3901.00	
Safety Joint	3.00			3904.00	
Packer	5.00			3909.00	30.00 Bottom Of Top Packer
Packer	4.00			3913.00	
Stubb	1.00			3914.00	
Perforations	3.00			3917.00	
Recorder	0.00	8354	Inside	3917.00	
Recorder	0.00	8520	Outside	3917.00	
Change Over Sub	1.00			3918.00	
Drill Pipe	31.00			3949.00	
Change Over Sub	1.00			3950.00	
Perforations	14.00			3964.00	
Bullnose	3.00			3967.00	54.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

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Denver, CO 80202

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Test Start: 2012.03.09 @ 06:56:15

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	90%Mud/10%Water	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

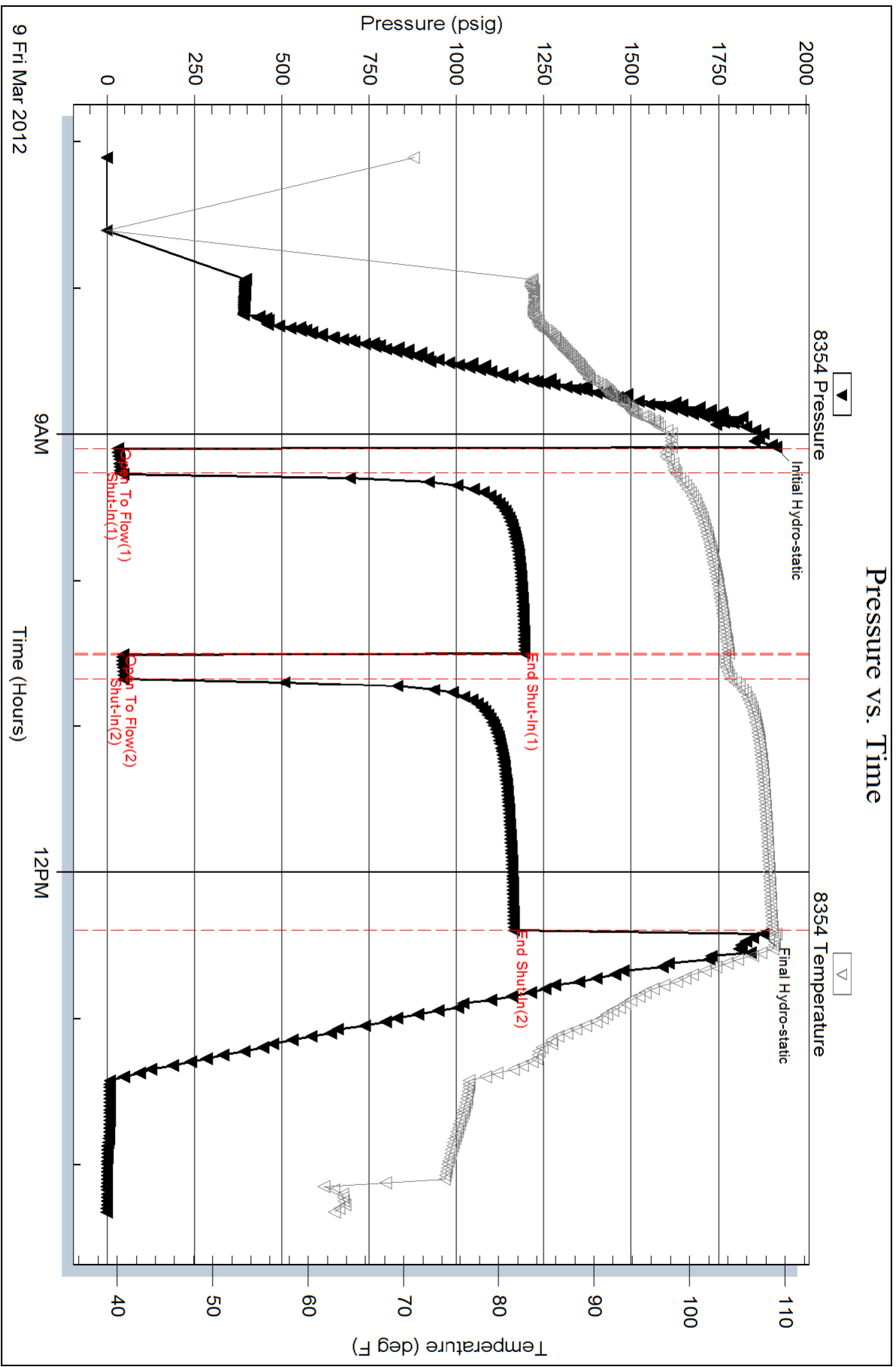
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-4000 ML Total. 2000 ML Water. 2000 ML Mud.

150# Pressure.

Resistivity- .272 @ 64= 28000 chlorides.

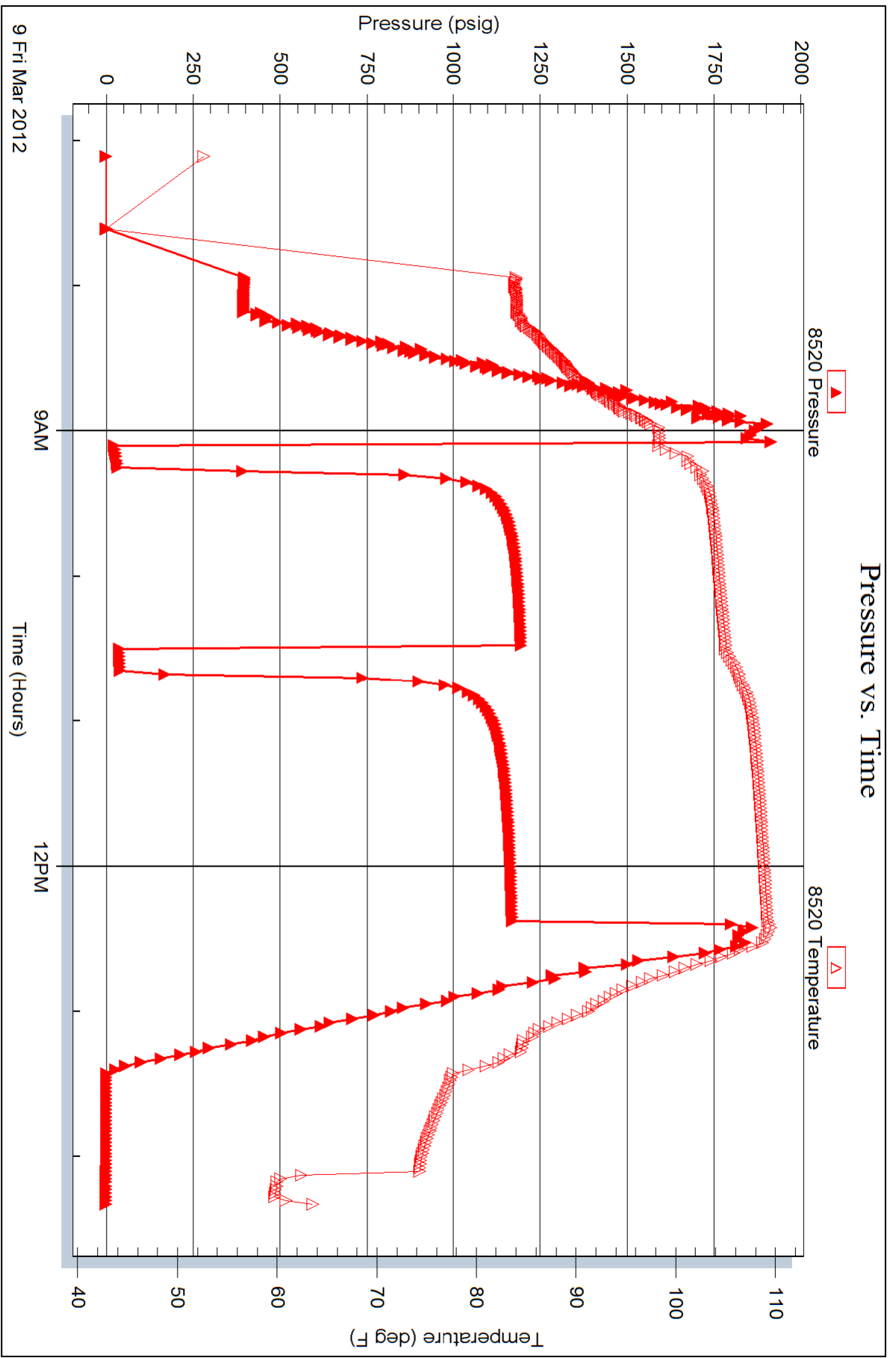


Serial #: 8520

Outside Samuel Gary Jr. & Associates, Inc.

Shubert ET AL 1-31

DST Test Number: 3



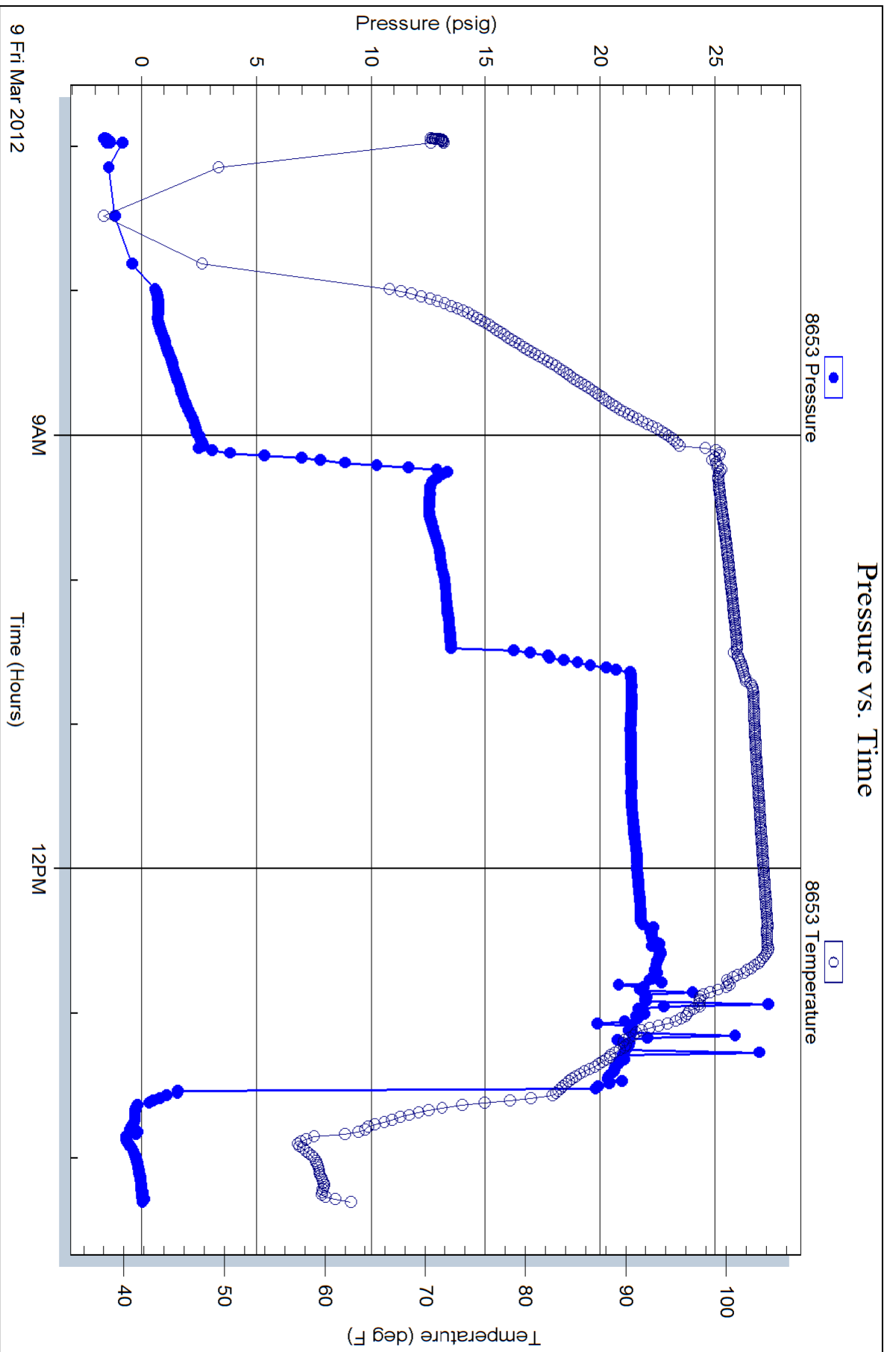
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Fluid

Samuel Gary Jr. & Associates, Inc.

Shubert ET AL 1-31

DST Test Number: 3

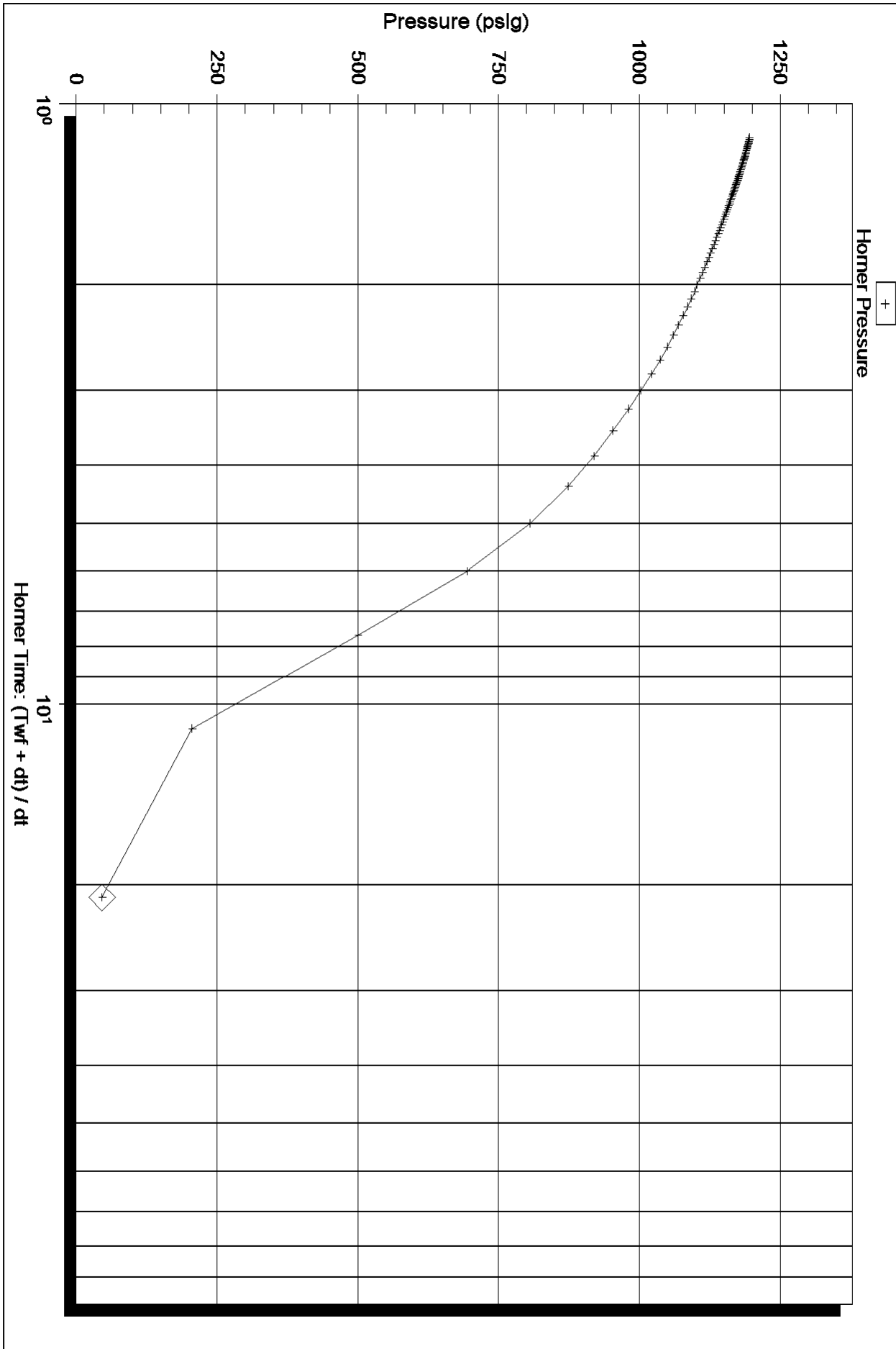


Trilobite Testing, Inc

Ref. No: 46925

Printed: 2012.03.10 @ 15:10:35

Horner Plot



Serial Number: 8354 (Inside)

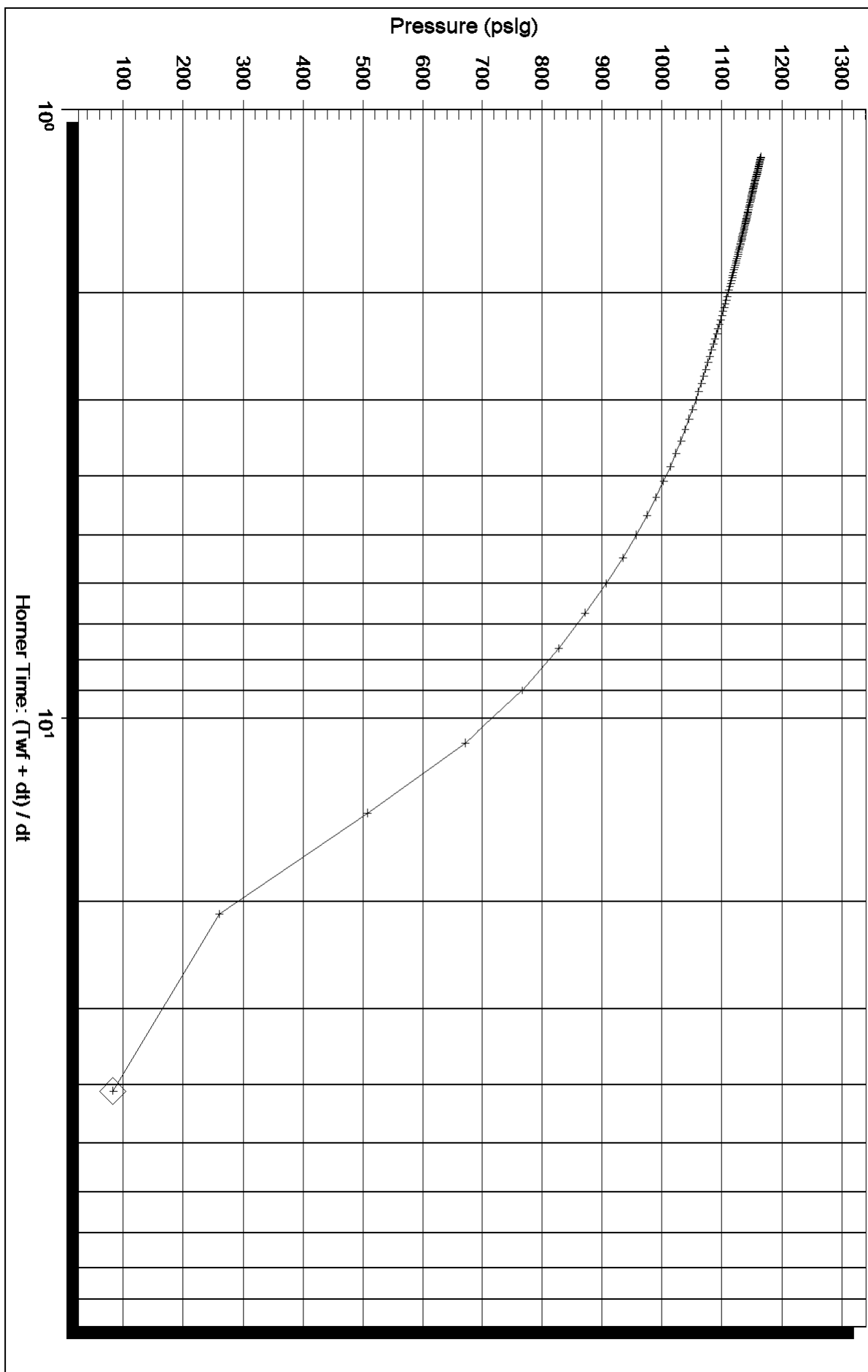
P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot

Horner Pressure



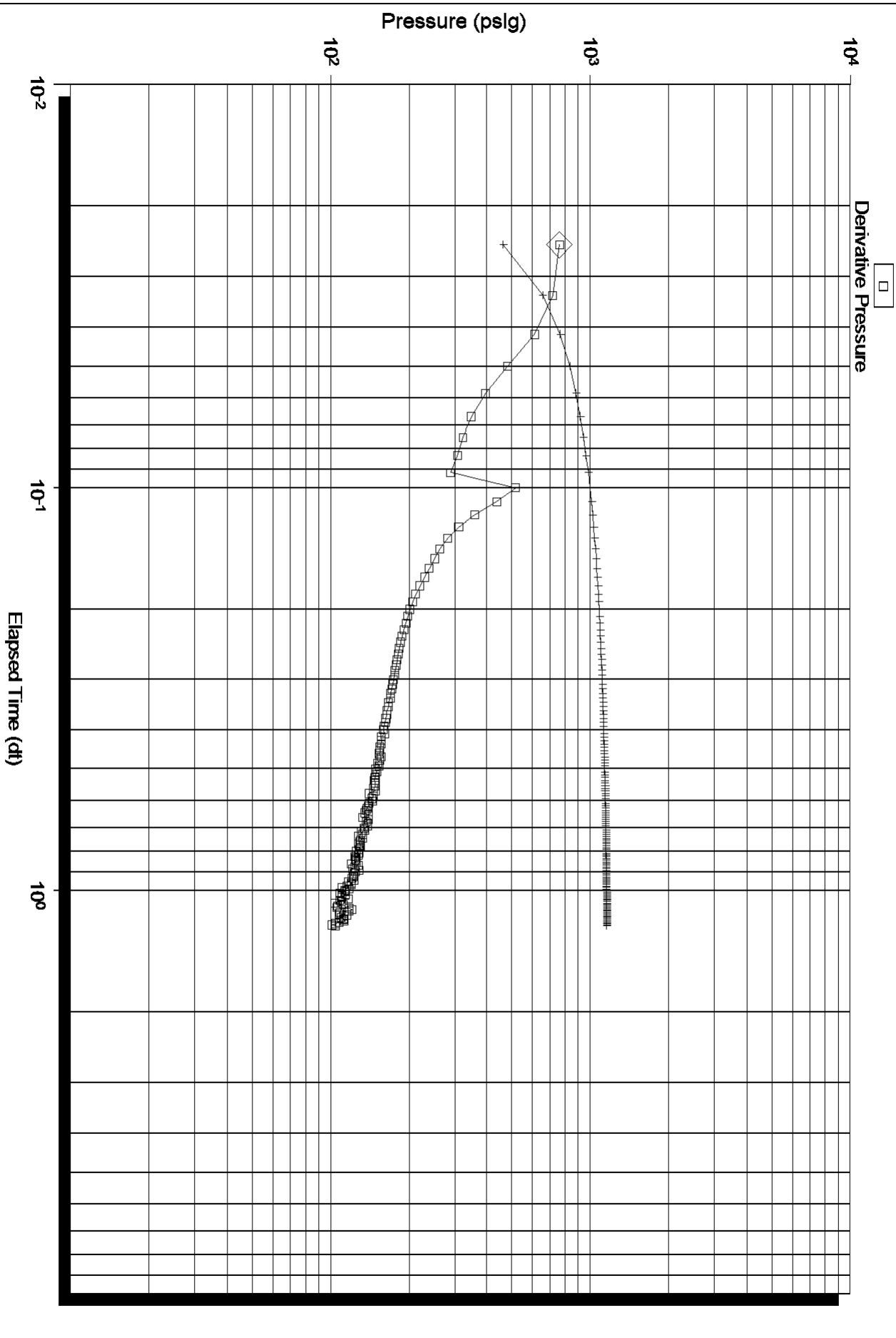
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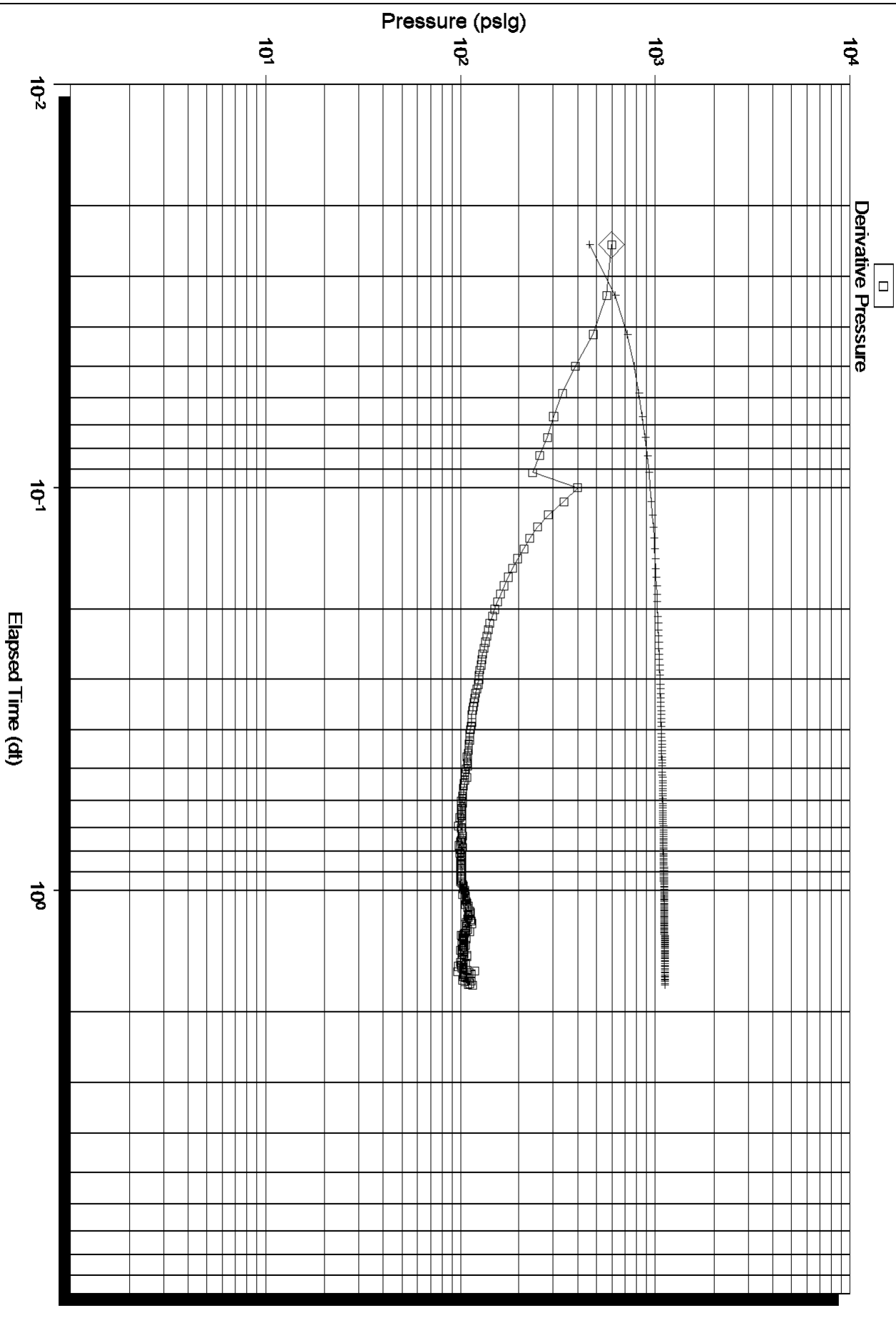
Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





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

Well Name: SHUBERT ET AL 1-31
Location: SEC. 31 - 11S - 21 W Trego County, Kansas
License Number: 15-195-22764
Spud Date: FEB. 29TH 2012
Surface Coordinates: 1710' FNL / 2800' FEL
Region: WILDCAT
Drilling Completed: MARCH.09, 2012
Bottom Hole Coordinates:
Ground Elevation (ft): 2307' K.B. Elevation (ft): 2315'
Logged Interval (ft): 3300' To: 4080' Total Depth (ft): 4080'
Formation: Lansing, Arbuckle
Type of Drilling Fluid:

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

CORE

Contractor: DEVILBLISS CORING, BLANCHARD OKLAHOMA
Core #: 1
Formation:
Core Interval: From: 3907' Cut: 60'
To: 3967' Recovered: 60.3'
Bit type:
Size:
Coring Time: 16.47

OPERATOR

Company: SAMUEL GARY JR & ASSOC.
Address: 1515 WYNKOOP ST, STE 700
DENVER, COLORADO 80202
CO. GEO; TOM FERTAL

GEOLOGIST

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

Circulating Report

START CORE ATTEMPT #1 AT 3:30 PM 3/7/12 AT 3902' BIT WILL NOT TORQUE UP AFTER 41.61 MINUTES
BACK IN HOLE TO CUT 5' MORE/ START DRILLING WITH CONVENTIONAL BIT @ 8:55 PM 3/7/12 DRILL TO 3907'
CFS
START CUTTING CORE 3:55 AM 3/08/2012
FINISH CUTTING CORE 8:42 PM. 3/08/2012
START MARKING CORE ON CATWALK @ 2:07 AM 3/09/2012

DST's Report

DST#1 3358-3387 10 60 40 120
IF-BLT TO 1/2"/ ISI-NB/ FF- BLT TO 1"/FSI-NB
IH-1625, FH-1597/ IF-45 TO 45, FF- 56 TO 56/ ISI-935, FSI-915
RECOV.-70' TF-10' VSOCM, 2%OIL, 98%MUD, 60' VSOCWM, 2%OIL, 10% WATER., 88% MUD /BHT 101 DEG.
SAMPLER-600 ML MUD, 3400 ML WATER ,90PSI, 4000 ML TOTAL PIT CHL 1000/ TEST CHL .153@ 64
DEG=54,000

DST#2 3603-3650 5 60 40 160
IF-BLT TO 6"/ ISI- NB/ FF-BOB IN 5MIN45 SEC./FSI- BLT TO 3.5"/IH- 1761, FH-1719/ IF-29 TO 52, FF-56 TO 110/
ISI-869, FSI-814/ RECOVERED-589' GIP, 27' TF- 62' GASSY OIL, 60%G,40% O., /93' GOCM, 10%G.,10%O.,80%
M.,/62' GOCWM, 10%G., 10% O.,10%W.,70%M., GRAVITY 40/ BHT 109 DEG.

DST's Report

DST#3 3913- 3967 10 75 10 100
IF-WK SRF DIED IN 5 MIN/ ISI-NB/ FF- FEW BBLS/ FSI-NB
IH-1913, FH-1877/ IF-30 TO 37, FF-45 TO 47/ISI-1195, FSI-1165
RECOVERED- 15' TF- 15' W.M 10%, 90% M., BHT 109 DEG., PIT CHL- 6000/ TEST CHL-RW .272 @ 64 DEG. =
28,000 CHL.
SAMPLER- 2000 ML MUD, 2000 ML WATER, PSI- 150#, 4000 ML TOTAL

ROCK TYPES

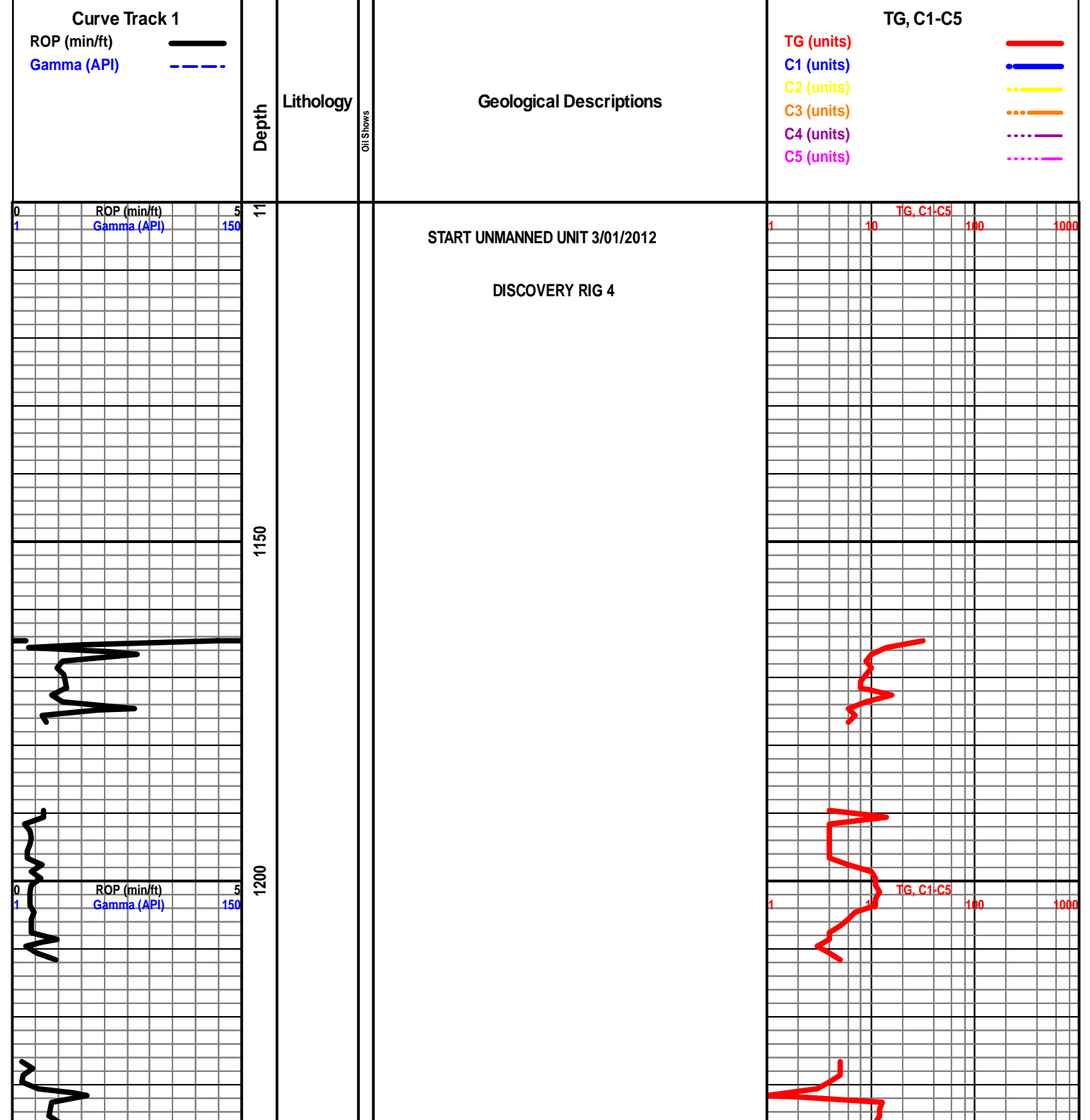
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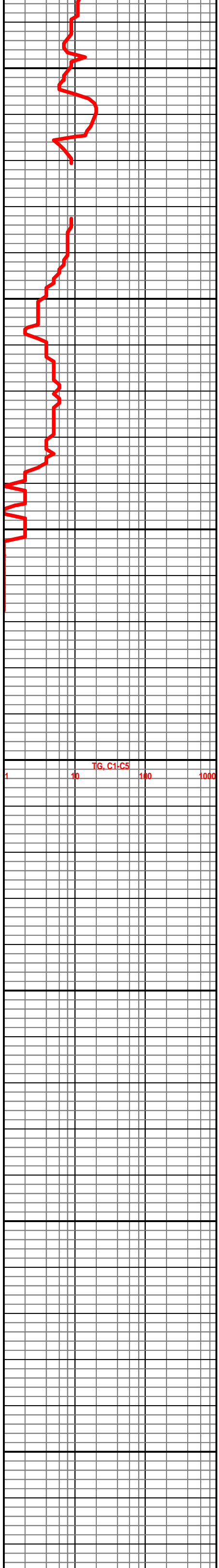
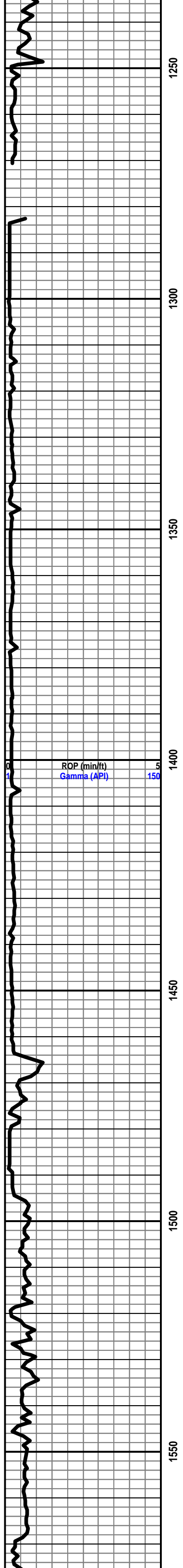
ACCESSORIES

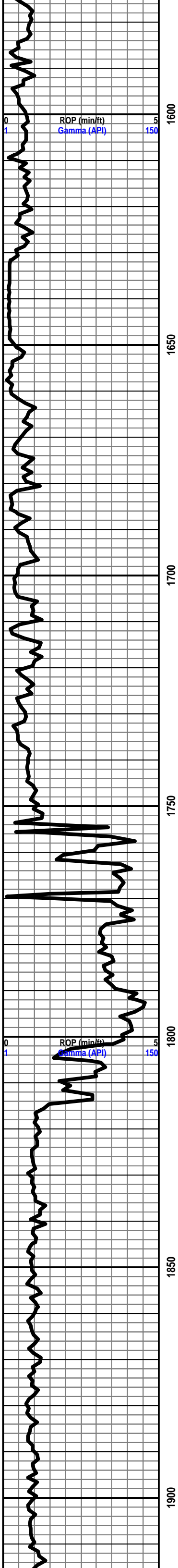
<h4>MINERAL</h4> <ul style="list-style-type: none"> Anhy Arggrn Arg Bent Bit Brecfrag Calc Carb Chtdk Chtlt Dol Feldspar Ferrpel Ferr Glau Gyp Hvymin Kaol Marl Minxl Nodule Phos Pyr 	<ul style="list-style-type: none"> Salt Sandy Silt Sil Sulphur Tuff Chlorite Dol Sand Sity <h4>FOSSIL</h4> <ul style="list-style-type: none"> Algae Amph Belm Bioclst Brach Bryozoa Cephal Coral Crin Echin Fish Foram 	<ul style="list-style-type: none"> Fossil Gastro Oolite Ostra Pelec Pellet Pisolite Plant Strom Fuss Oomold <h4>STRINGER</h4> <ul style="list-style-type: none"> Anhy Arg Bent Coal Dol Gyp Ls Mrst Sltstrg Ssstrg Carbsh 	<ul style="list-style-type: none"> Clystn Dol Grysh Gryslt Lms Sh Sltstn <h4>TEXTURE</h4> <ul style="list-style-type: none"> Boundst Chalky Cryxln Earthy Finexln Grainst Lithogr Microxln Mudst Packst Wackst
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OTHER SYMBOLS

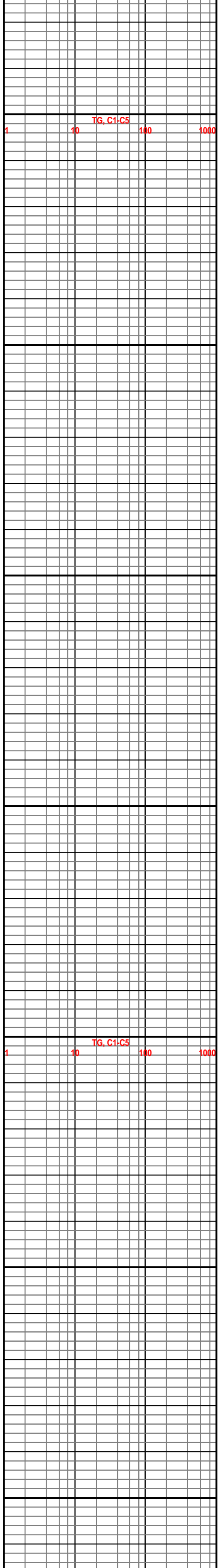
<h4>POROSITY TYPE</h4> <ul style="list-style-type: none"> Earthy Fenest Fracture Inter Moldic Organic Pinpoint Vuggy 	<h4>SORTING</h4> <ul style="list-style-type: none"> Well Moderate Poor <h4>ROUNDING</h4> <ul style="list-style-type: none"> Rounded Subrnd Subang 	<ul style="list-style-type: none"> Angular <h4>OIL SHOWS</h4> <ul style="list-style-type: none"> Even Spotted Ques Dead Gas show 	<h4>INTERVALS</h4> <ul style="list-style-type: none"> Core Dst Dst <h4>EVENTS</h4> <ul style="list-style-type: none"> Rft Sidewall
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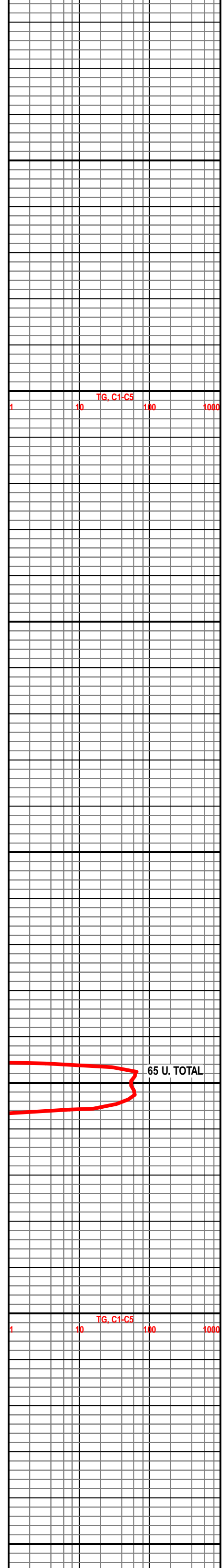
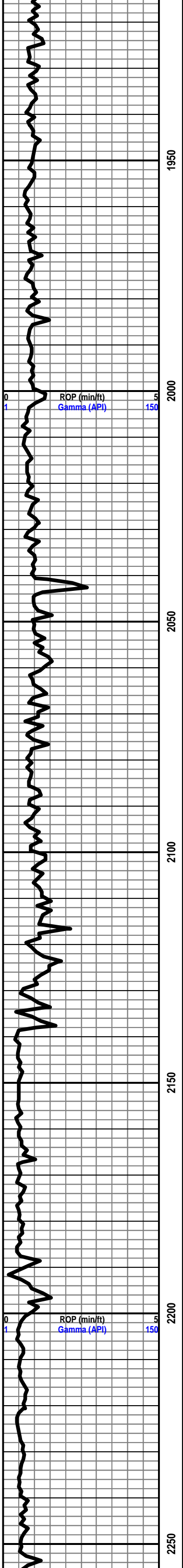


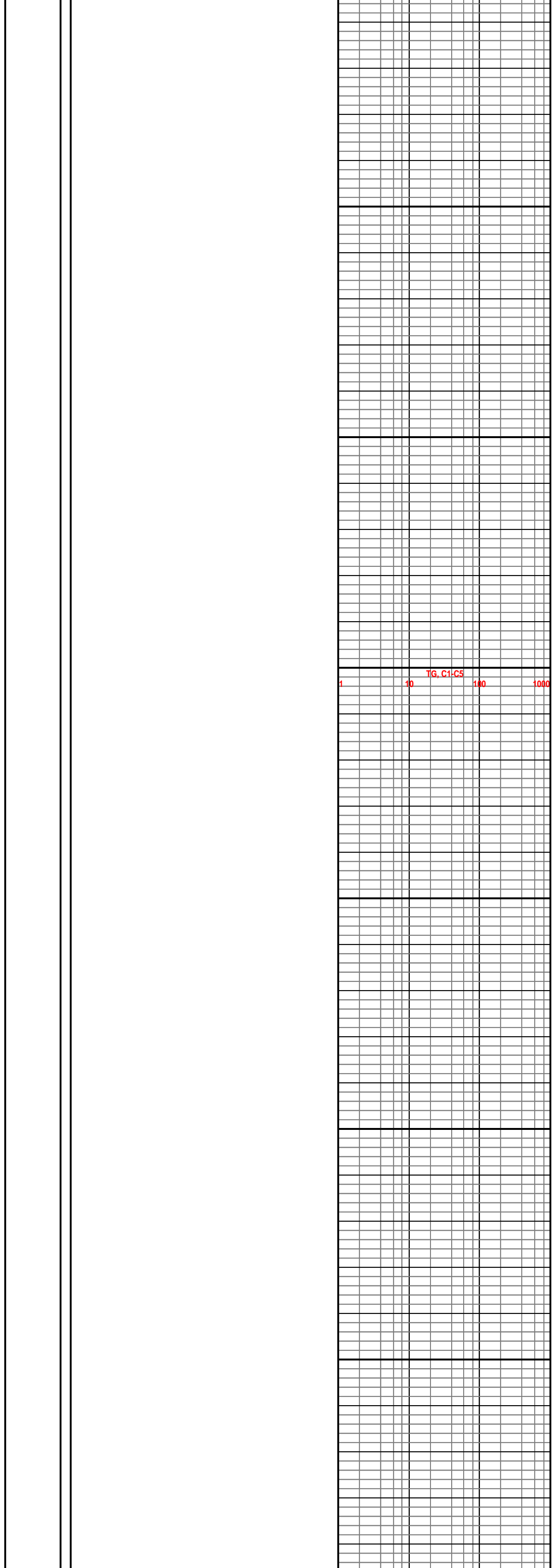
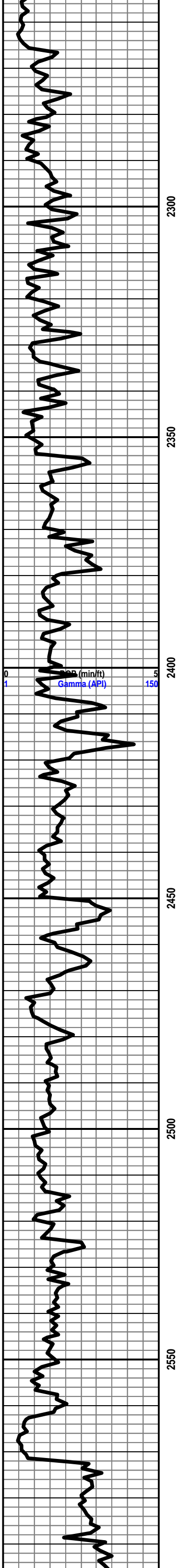


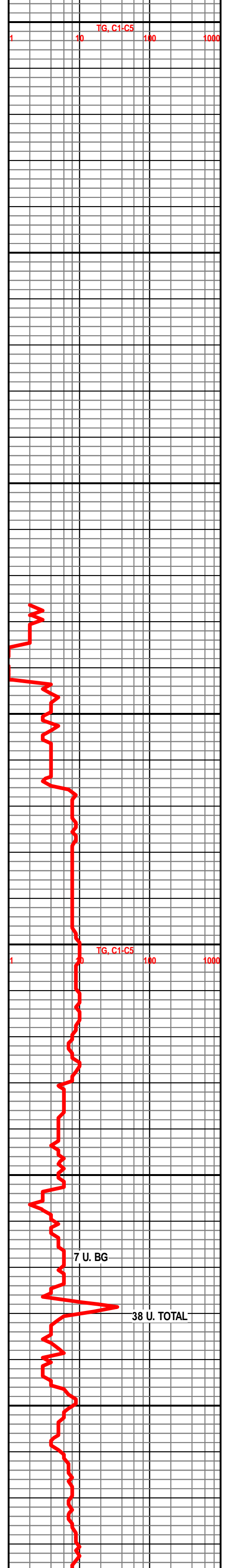
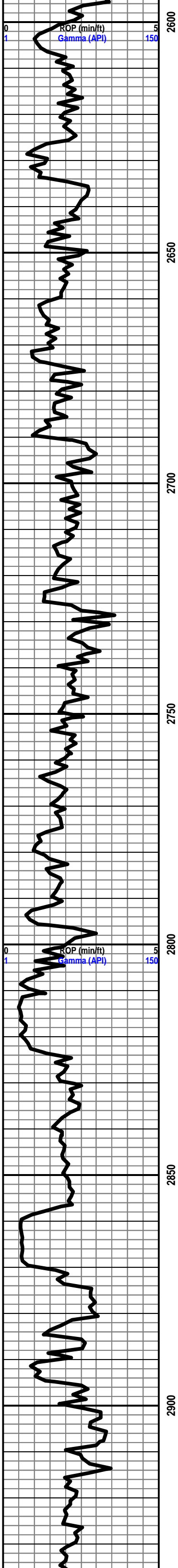
1600 1650 1700 1750 1800 1850 1900

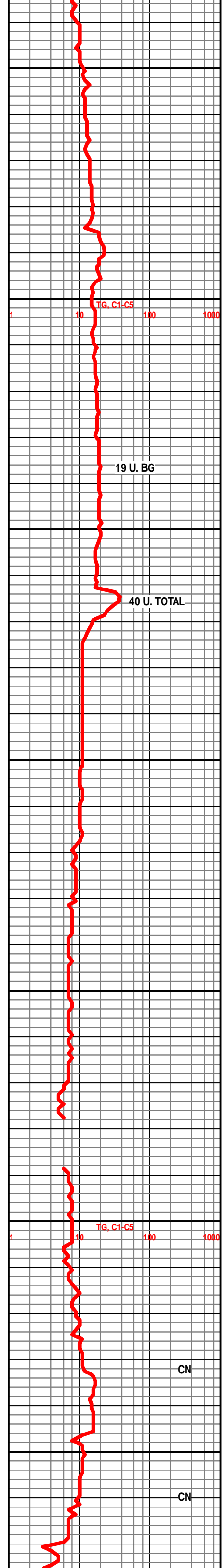
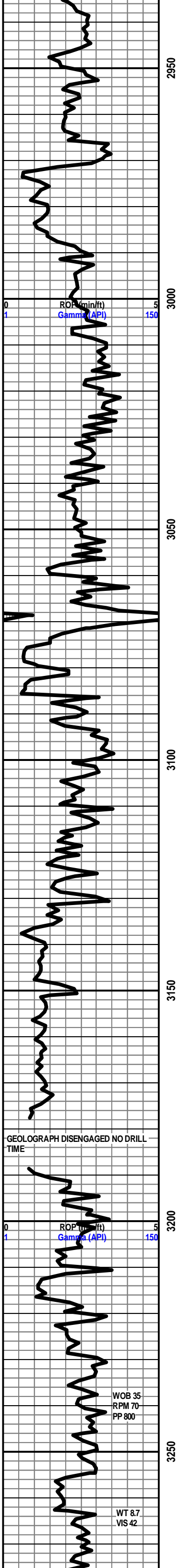


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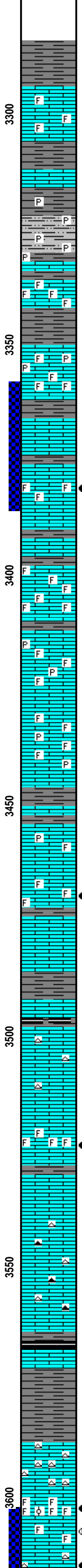
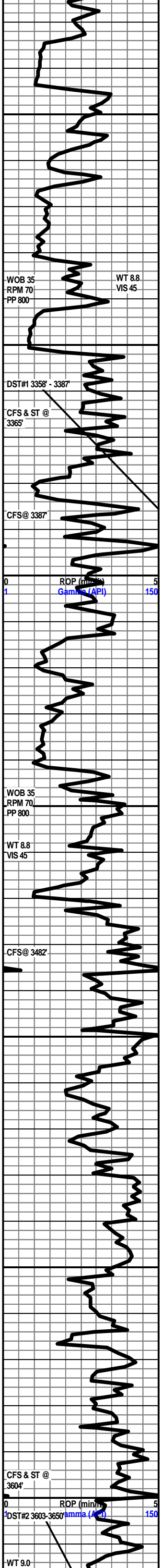








START 24 HR MANNED UNIT 3/03/2012



SH- LT TO MD GY- FRM IP TO V/ SFT SLTY TXT IP

HOWARD 3294' - 979'

LS- CRM BFF- HD DNS TO BRITT IP, V/ SUCRO MTRX, TO TR MD-XLN, ABDT FOSS FRGS IP, TR IMBD DISS SH IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

SH - LT GY TO LT GRN- FRM IP TOV/ SFT SLTY , ABDT IMBD DISS SH , ABDT DISS PYR SCAT THRU, TR CARB SH DISS IP,

LS- LT TN TN- HD DNS TR BRITT, MD-F-XLN RE-XLN MTRX, ABDT IMBD SMLL FOSS FRGS THRU, SLI TR SMLL CALC XLS IMB IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

TOPEKA 3351' - 1036'

LS- CRM LT TN TN LT GY- HD DNS MD-F-XLN V/F-XLN IP, RE-XLN IP, ABDT IMBD FOSS FRGS, IMBD DISS PYR IP, TR PYR CLSTRS IP, LT BRIT YEL MIN FLO IP, TO NO FLO, NO VIS POR, NO VIS SHOW

3376' - 3383' LS- LT TN TO DK TN TO BRN(EVEN BRN OIL STN IN 90%) HD TO V/ BRITT, V/ SUCRO MTRX TO MD-XLN RE-XLN W/ IMBD FOSS FRGS IN 40%, SLI TR WHT CHLK IP, BRIT YEL GLD FLO IN 30%, DLL YEL GLD FLO IN 70%, FR TO HVY TR GD VIS INTER-RE-XLN INTERFOSS POR IN 40%, FR VIS MICROVUG IN 30-40%, TR SCAT VUG POR IP, EXCEL FLSH CUT IN 85%, V/ GD SLO STRM CUT IN 85%, GD OIL ODOR, BRN LCH ON DISH

LS- LT TN TN - HD DNS TO BRITT IP, MD-F-XLN RE-XLN MTRX, ABDT IMBD FOSS FRGS THRU, SLI TR IMBD LT GRN SH IP, V/ DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

3413-3420- LS- LT TN TN OFF WHT IP, HD DNS TO BRITT, MD-F-XLN V/ RE-XLN MTRX, ABDT IMBD FOSS FRGS THRU, ABDT SFT WHT CHLK IMBD IP, HVY TR DISS PYR SCAT THRU, V/ DLL YEL FLO THRU, TR SCAT PR INTERFOSS POR IP, NO VIS SHOW OR CUT

3426-3442 LS- LT TN TN OFF WHT IP, HD DNS TO BRITT, MD-F-XLN V/ RE-XLN MTRX, ABDT IMBD FOSS FRGS THRU, ABDT SFT WHT CHLK IMBD IP, FREE SFT CHLK, ABDT SCAT IMBD SMLL TO LRG CALC XLS THRU, HVY TR DISS PYR SCAT THRU, V/ DLL YEL FLO THRU, TR SCAT PR INTERFOSS POR IP, NO VIS SHOW OR CUT

SH- LT TO MD GY- FRM BLKY V/ CALC TO LMY IP

3454-3459- LS- OFF WHT CRM LT TN - HD DNS IP TO SFT, MD-F-XLN TO SUCRO S-CHLKY IP SMLL TO MD CALC XLS IMBD IP, SLI TR DISS PYR IP, SCAT IMBD FOSS FRGS IP, NO FLO, NO VIS POR, NO VIS SHOW

3467-3470- LS- CRM LT TN TN (SCAT LT BRN OIL STN SCAT THRU) HD DNS IP TO V/ BRITT, F-XLN TO MD-XLN RE-XLN MTRX, ABDT SMLL FOSS FRGS IP, SMLL CALC XLS IN 10%, BRIT YEL GLD FLO IN 60%, DLL YEL GLD FLO IN 40%, PR TO FR TO GD INTERFOSS POR IN 40%, FR TO GD MICROVUG TO VUG POR IN 30%, NO POR IN 30%, V/ GD FLSH CUT IN 60%, V/ GD SLO STRM CUT 70%, GD OIL ODOR, LT BRN LCH ON DISH

SH- MD TO DK GY- FRM BLKY SMTH TXT

SH- BLK SFT CARB

LS- OFF WHT CRM BFF- HD DNS TO BRITT, F-VF-XLN RE-XLN MTRX ABDT TN OPQUE CHRT, HVY TR ABDT SFT WHT CHLK IP, NO FLO, NO VIS POR NO VIS SHOW

3521-3523- LS- CRM LT LT GY TO TN(EVEN TN OIL STN SCAT THRU) HD DNS IP TO TR BRITT, MD-F-XLN V/ RE-XLN MTRX, V/ FOSS, SLI TR IMBD SMLL MICRO OOL IP, BRIT YEL GLD FLO IN 40%, DLL YEL GLD FLO IN 60%, PR TO FR VIS INTER-FOSS POR IN 40%, PR TO FR INTER-XLN POR IN 30%, V/ GD FLSH CUT IN 60%, V/ GD SLO STRM CUT IN 60%, GD OIL ODOR, LT TN LCH ON DISH

LS- CRM OFF WHT BFF- HD DNS F-VF-XLN TO SUCRO S-CHLKY TO CHLKY IP , W/ IMBD MOTT WTHRD TN BRN GRVISH CHRT, NO FLO, NO VIS POR, NO VIS SHOW

HEEBNER 3564' - 1249'

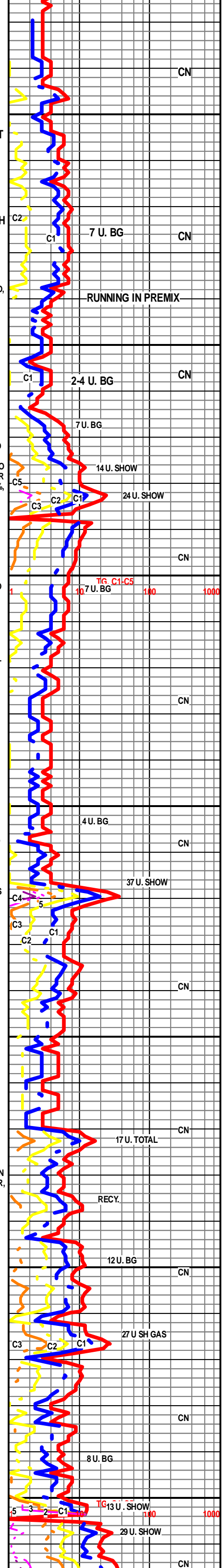
SH- BLK SFT CARB

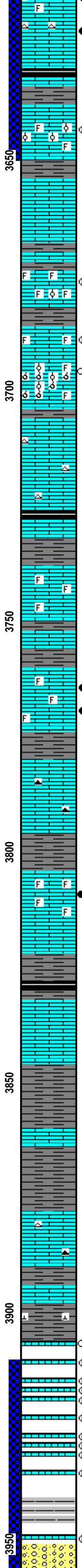
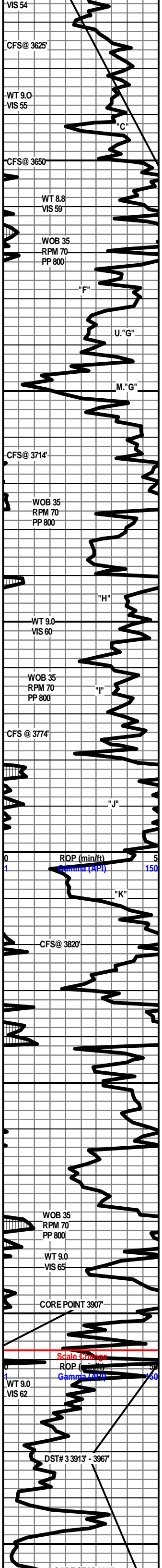
SH- LT GRY TO LT GRN- FRM BLKY IP TO V/ SFT SLTY TXT

LANSING 3598' - 1283'

LS-OFF WHT TO CRM- HD DNS F-VF-XLN ABDT WHT OF WHT CHRT, HVY TR ABDT SFT CHLK, TR IMBD CALC XLS IP, LT BRIT YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW

3600- 3608' LS- CRM BFF LT TN (V/ LT TN OIL STN THRU) HD V/ BRITT, MD-XLN RE-XLN MTRX THRU, ABDT IMBD FOSS FRGS THRU, SMLL CALC XLS IMBD IN POR, SLI TR MD OOL IP, BRIT YEL GLD FLO IN 70%, DLL YEL GLD FLO IN 20%, FR TO GD VIS INTER-FOSS POR SCAT IN 60%, TR SCAT FR VIS VUG POR IP, FR TO GD FLSH CUT IN 60%, GD SLO STRM CUT IN 80%, GD OIL ODOR, LT TN STN ON DISH





3612-3621- LS- OFF WHT CRM BFF W/ LT TN OIL STN SCAT THRU, SCAT BLCK OIL STN IP, HD DNS TR BRITT, V/F-CRYPTO-XLN RE-XLN IP, FOSS FRGS IMBD IP, TN CHRT SCAT THRU, SMLL CALC XLS IMBD IN VUGS IP, CALC XLS ON ON FACE OF ROCK IP, BRIT YEL GLD FLO SPOTTED THRU, DLL YEL GLD FLO SPOTTED THRU, FR TO GD VIS MICROVUG TO VUG POR SCAT IN 40%, SCAT FR TO GD VIS INTERFOSS POR IN 30%, POSS FRACT POR SCAT THRU, V/ GD FLSH CUT IN 70%, V/ GD RCH SLO STRM MLKY BLU CUT IN 80% GD OIL ODOR, V/ LT TN LCH ON DISH

LANSING "C" 3639' - 1324'

3642-3644- LS- LT TN TN) EVEN TN OIL STN THRU, HD DNS IP TO V/ BRITT, MD-F-XLN RE-XLN MTRX, ABTD SMLL OOLIMBD THRU, SCAT FOSS FRGS, SMLL IMBD CALC XLS INTER-OOL, BRIT YEL GLD FLO IN 50%, DLL YEL GLD FLO IN 30%, NO FLO IN 20%, PR TO FR SCAT INTER-OOL POR IN 30%, PR TO FR VIS INTER-XLN POR SCAT THRU, PR SCAT INTER -FOSS POR IP, FR VIS FLSH CUT IN 50%, GD SLO STRM CUT IN 60%, GD STNG OIL ODOR, NO LCH ON DISH

LANSING "F" 3674' - 1359'

3674-3676' LS- OFF WHT CRM LT TN (SCAT TN OIL STN SCAT THRU) HD DNS F-XLN IP TO MD-XLN RE-XLN MTRX, V/ FOSS IP, SLI TR IMBD SMLL CHLKY OOL IP, SLI TR IMBD SFT CHLK, BRIT YEL GLD FLO SPOTD IN 30%, DLL YEL GLD FLO IN 50%, PR VIS INTER-FOSS POR IN 30%, PR VIS INTER-XLN PP POR IN 20%, FR FLSH CUT IN 30%, GD SLO STRM CUT IN 50%, FR OIL ODOR

3786-3792' LS- LT TN TN LT BRN(SPTTD LT TN TO DK BRN OIL STN SCAT THRU) HD DNS TR BRITT IP, F-XLN S-SUCRO IP SLI S-CHLKY IP, MD-XLN RE-XLN IP W/ IMBD FOSS FRGS SCAT IP, DLL YEL GLD FLO IN 20%, BRIT YEL GLD FLO IN 20%, NO FLO IN 60%, PR SCAT MICRO VUG POR IN 30%, PR SCAT INTER-FOSS POR IN LESS THAN 10%, FR FLSH CUT IN 30%, GD SLO STRM STM CUT IN 40%, NO ODOR, NO LCH ON DISH

3794-3799' LS- OFF WHT TO WHT LT TN TO DK (LT TN & DK BRN OIL STN SCAT IP) HD V/ BRITT IP, MD-FXLN, RE-XLN MTRX, IMBD SMLL OOL SCAT IN 60%, V/ OOL MLD IP, SCAT IMBD FOSS IP, HVY TR IMBD SFT WHT CHLK IP, NO FLO IN 60%, DLL YEL GLD FLO IN 30%, BRIT YEL GLD FLO IN 20%, PR SCAT OOLMLD POR SCT THRU, PR MICRO VUG POR IN 20%, TR PR INTER-FOSS POR IN 10%, PR FLSH CUT IN 30%, PR SLO STRM CUT IN 30%, NO ODOR, NO VIS LCH ON DISH

LANSING "H" 3738' - 1423'

LS- CRM LT TN TN- HD DNS MD-F-XLN RE-XLN MTRX, IMBD FOSS FRGS SCAT THRU, DLL YEL MIN FLO IP , NO VIS POR, NO VIS CUT OR SHOW

3762-3770- LS - CRM LT TN TN DK BRN DUE TO SPTTD LT BRN TO DK BRN OIL STN THRU, HD DNS TR BRITT, F-XLN TO TT SUCRO MTRX, RE-XLN, IMBD FOSS FRGS IN 60%, SMLL CALC XLS IMBD IP, BRIT YEL GLD FLO SPOTD IN 40%, DLL YEL GLD FLO SCAT IN 40% PR VIS SCAT INTER-FOSS POR IP, PR VIS INT-XLN POR IN 30%, FR FLSH CUT IN 60%, GD SLO STRM CUT IN 70%, GD STRNG OIL ODOR , DK TN LCH ON DISH

LS- OFF WHT CRM BFF- HD DNS, V/F-CRYPTO- XLN TO TR S-LITHO IP, ABTD SCAT WHT TN CHRT , NO FLO TO TR LT YEL MIN FLO SCAT THRU, NO FLO, NO VIS POR, NO VIS SHOW

SH- LT TO MD GY- FRM BLKY SMTH TXT, SLI CALC IP

3805-3810' LS- CRM LT TN TN LT BRN (DUE TO EVEN OIL STN IN 70%, SCAT LT TN OIL STN IP,) HD DNS IP TO V/ BRITT, MD-XLN V/ RE-XLN MTRX, V/ FOSS THRU, SMLL CALC XLS IP, BRIT YEL GLD FLO IN 70%, SPTTD BRIT YEL GLD FLO IN 30%, DLL YEL GLD FLO IN 30%, PR TO FR VIS INT-FOSS POR IN 40%, FR TO GD VIS INT-FOSS POR IN 20%, TR PR SCAT VUG OR IP, EXCEL SLO STRM CUT IN 80%, V/ GD SLO STRM CUT IN 95%, GD OIL ODOR, TN LCH ON DISH

SH- BLK SFT CARB

LS- OFF WHT CRM- HD DNS F-V/F- XLN CRYPTO-XLN IP TO V/ SUCRO S-CHLKY IP, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

SH- RED - FRM TO HD BLKY V/ GRNY TXT TO V/ CALC IP

LS-OFF WHT CRM- HD DNS TO TR BRITT IP, F-V/F- XLN TO TR CHLKY IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

SH- GRN RED , MOTT FRM BLKY V/ GRNY TXT

LS- CRM LT TN LT PNK, HD DNS MOTT, F-XLN TO CRYPTO-XLN IP, TR RE-XLN IP, TN GY CHRT, NO FLO, NO VIS POR NO VIS SHOW OR CUT

SH- RED TO DK BRN , MOTT, FRM BLKY GRNY TXT IPTO SMTH

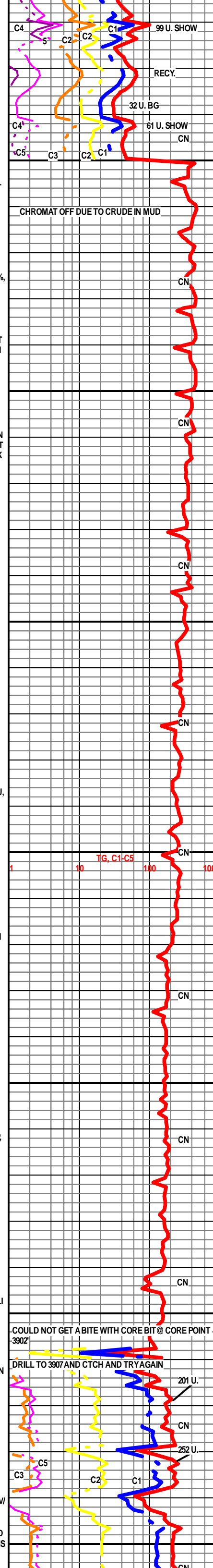
SH- LT GRN LT PRPL- MOTT FRM BLKY SMTH TXT IP TO V/ GRNY TXT SLI CALC IP

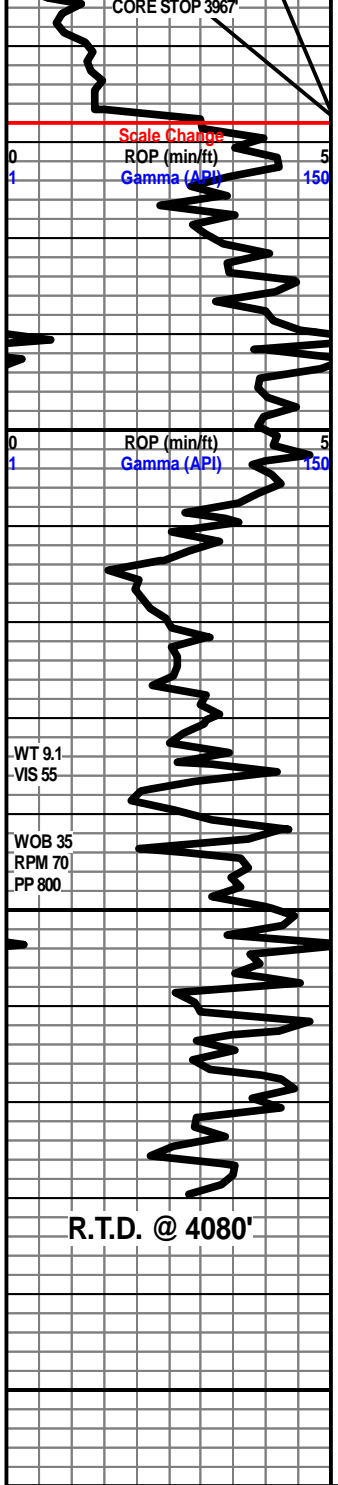
3906-3907- LS- CRM TN LT BRN MOTT, HD DNS F-V/F- XLN CRYPTO-XLN IP, TR LRG CALC XLS ON ONE FACES W/ BRIT YEL GLD FLO ON ONE FACES, ABTD WHT TN CHRT W/ TR LT BRN OIL STN IP, NO FLO IN 80%, TR SCAT BRIT YEL GLD FLO IN 10%, NO VIS POR, TR V/ PR FLSH CUT IN 10%, SLI TR PR SLO STRM CUT IN LESS THAN 5%, NO ODOR , NO STN ON DISH

3910-3934' 3' SAMPLES- VARIED FROM LS- CRM TN LT BRN- SCAT TN TO DK TN OIL STN ON ONE FACES OF ROCK, HD DNS V/F-CRYPTO-XLN, SLI -S-SUCRO IP, SCAT IMBD CHRT, SCAT VRGTD QUARTZ & OR CALC XLS IP, NO FLO MOSTLY TO SCAT V/ DLL YEL FLO IP, NO VIS POR TO TR SCAT PR VIS MICROVUG POR IP, PR TO FR TO GD FLSH CUT THRU TO PR TO FR TO GD SLO STRM CUT SCAT THRU, NO ODOR, TR LV OIL IN 20%

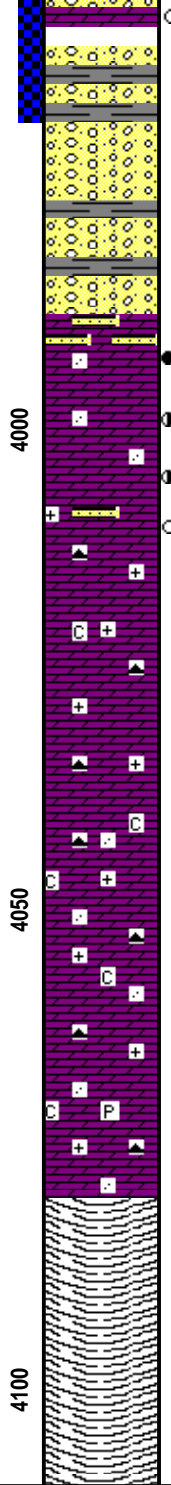
3940-3946- SH - RED GRN RDSH BRN- MOTT, FRM BLKY TO HD SPLNTY V/ CALC IP

3949'-LS-OFF WHT CRM BFF(BLK OIL STN ON TWO FACES OF ROCK)HD DNS V/F-CRYPTO-XLN NO FLO TO TR SPTTD BRIT YEL GLD FLO IP, NO VIS POR, WK FLSH CUT TO PR SLO STRM CUT NO ODOR





R.T.D. @ 4080'



3958' DOLO-CRM LT TN TN BFF- HD DNS MD-F-XLN TO CRYPTO-XLN IP, RE-XLN ABDT IMBD FOSS FRGS NO FLO IN 90%, V DLL YEL FLO IN 10% NO POR TO TR SCAT PR MICRO VUG POR IN 10%, VVWK SLO STRM CUT IP

3961,3964,3967- CONGLOMERATE- SHALE, RED ,GRN MOTT, LS, ORANGE CHRT

CONGL- CRM GY BLK- HD DNS, LS, DOLO, SH CHRT,

ARBUCKLE 3990' - 1675'

3990-4006-DOLO- CRM LT TN TN (DUE TO EVEN LT BRN OIL STN IN 80%, SCAT DOS IN 20%, HD DNS SLI TR BRITT, F-XLN TO V/ TT CRS SUCRO MTRX ,HVY TR IMBD F-MD GRN, S-ANG CLR QRTZ GRNS IN 30%,ABDT LV OIL IN TRAY,DLL YEL GLD FLO IN 80%, NO FLO IN 20%, TR PR INTER-XLN POR IP TO NO VIS POR, NO ODOR, WK FLSH CUT IN 30%, FR TO GD SLO STRM CUT IN 80%, LT TN STN ON DISH

4006-4020- DOLO- OFF WHT CRM BFF PNK- HD DNS TO BRITT, V/ CRS SUCRO MTRX IP TO MD-F-XLN, HVY TR FLDSPIP TO TR ORNG CHRT, TR LMNTD FN GRN,S-ANG TO S-RND CLR QRTZ GRNS IP,SCAT TR DOS IP, BRIT YEL MIN FLO THRU, TR BRIT YEL GLD FLO IN 1%, SLI TR WK FLSH CUT IN 1%, NO ODOR NO STN ON DISH

4020-4050- DOLO- OFF WHT TO WHT- HD DNS TO BRITT, F-XLN IP TO SUCRO MTRX IP, SLI TR SFT WHT CHLK, TR FELDSPR, HVY TR WHT ORNG CHRT, LT BRIT YEL MI FLO THRU, PR VIS INTER-XLN POR IP, NO VIS CUT OR SHOW

4050-4070- DOLO- OFF WHT TO WHT - HD DNS TO V/ BRITT, MD-F-XLN TO CRS SUCRO MTRX, TR IMND CLR FN GRN S-RND TO RND QRTZ GRNS IP, TR FLDSPR, HVY TR ORNG TN WHT CHRT, LT BRIT YEL MIN FLO, PR VIS INTER-XLN POR IN , NO VIS SHOW OR CUT

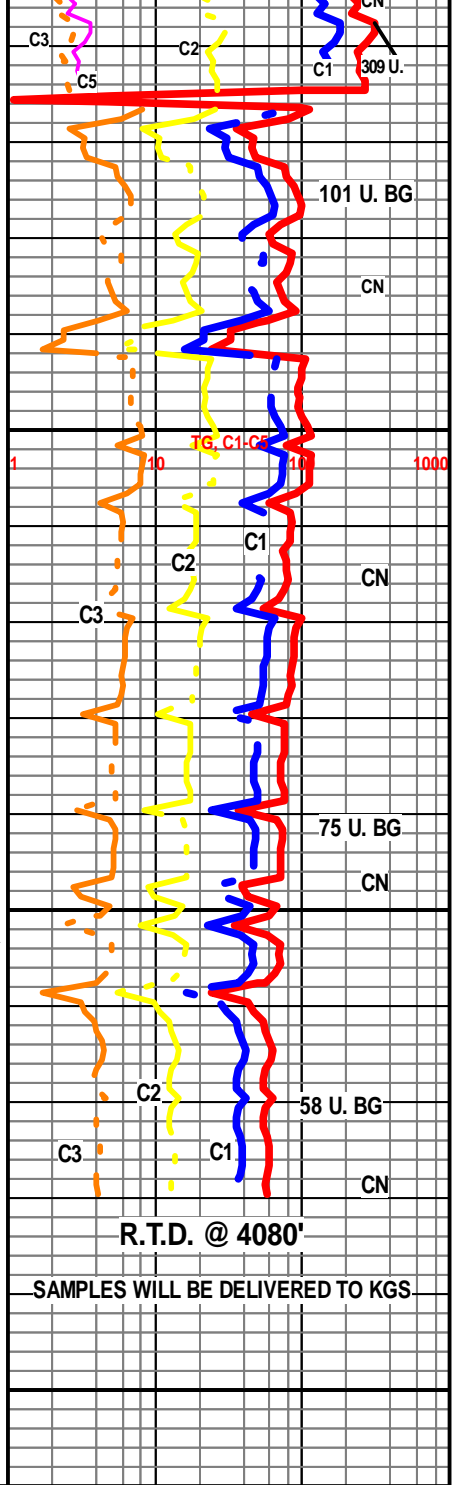
4070-4080 DOLO- OFF WHT TO WHT CRM - HD DNS TO V/ BRITT, MD-F-XLN TO CRS SUCRO MTRX, TR IMBD CLR FN TO MD GRN S-RND TO RND QRTZ GRNS IP, TR FLDSPR, HVY TR ORNG TN WHT CHRT,TR PYR CLSTRS, LT BRIT YEL MIN FLO, PR VIS INTER-XLN POR IN , NO VIS SHOW OR CUT

R.T.D. @ 10:58 PM 3/09/2012

CTCH 1.5 HRS

TOFL @ 12:30 AM 3/10/12

WEATHERFORD ,LIBERAL



R.T.D. @ 4080'

SAMPLES WILL BE DELIVERED TO KGS.