



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



1062646

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

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

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
---	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	MAIER 1-26
Doc ID	1062646

All Electric Logs Run

DEN
IND
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

September 01, 2011

NEIL SHARP
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-165-21921-00-00
MAIER 1-26
SW/4 Sec.26-16S-16W
Rush 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,
NEIL SHARP



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: 5/12/2011
 Invoice # 5007
 P.O.#:
 Due Date: 6/11/2011
 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:
 MAIER 1-26

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	MAIER 1-26
Deck	
AFE	
Approval	OK
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No	Baffle Plate Aluminum, 8 5/8"	1	\$95.00	Yes
Common-Class A	370	\$ 4,764.78	Yes				
8 5/8" Basket	3	\$ 1,000.67	Yes				
Bulk Truck Mat-Material Service Charge	390	\$ 823.33	No				
Calcium Chloride	13	\$ 516.78	Yes				
Pump Truck Mileage-Job to Nearest Camp	30	\$ 316.03	No				
8 5/8" Centralizer	3	\$ 202.67	Yes				
Flo Seal	90	\$ 190.00	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	30	\$ 184.93	No				
Premium Gel (Bentonite)	7	\$ 120.29	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 9,290.22
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,393.53)

SubTotal for Taxable Items:	\$ 5,951.76
SubTotal for Non-Taxable Items:	\$ 1,125.66
Total:	\$ 7,896.69
Tax:	\$ 374.96

6.30% Rush County Sales Tax

Thank You For Your Business!

Amount Due: \$ 8,271.65
Applied Payments:
Balance Due: \$ 8,271.65

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

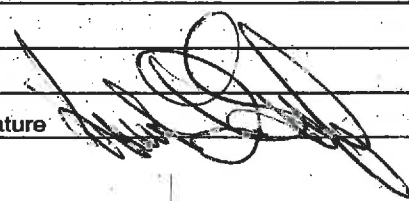
No. 5007

Date	5/8/11	Sec.	26	Twp.	16	Range	16	County	Rush	State	KS	On Location		Finish	7:30 PM	
Lease	MAIER		Well No.	1-26		Location Galatia, SW 1/4, 1W, Ninto										
Contractor	VAL Rty #6							Owner								
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.	1078'		Charge To										
Csg.	8 5/8" 23#		Depth	1076'		Sandy Gury Jr. & Associates										
Tbg. Size			Depth			Street										
Tool			Depth			City										
Cement Left in Csg.	38'		Shoe Joint	38'		State										
Meas Line			Displace	66 1/4 Bbls.		The above was done to satisfaction and supervision of owner agent or contractor.										
EQUIPMENT												Cement Amount Ordered				
												370 sk Com 3% Ca 2% Gel				
												1/4# per sk				

EQUIPMENT		Common	
Pumptrk	1	No. Cementer	370
		Helper	
Bulktrk	12	No. Driver	
		Driver	
Bulktrk	2	No. Driver	
		Driver	

JOB SERVICES & REMARKS		Calcium	
Remarks:		13	
Rat Hole		Hulls	
Mouse Hole		Salt	
Centralizers		Flowseal 904	
Baskets		Kol-Seal	
DV or Port Collar		Mud CLR 48	
Est. Cost		CFL-117 or CD110 CAF 38	
Pump 10 Bbls. water		Sand	
Mix 370 sk		Handling 390	
Displace		Mileage	
Lead Plug		FLOAT EQUIPMENT	
Cement Circulated		8 7/8	
		Guide Shoe	
		Centralizer 3	
		Baskets 3	
		AFU Inserts	
		Float Shoe	
		Latch Down	
		Baffle Plate	
		Head + manifold	
		Rubber Plug	
		Pumptrk Charge	
		Mileage	

Thank You!

X Signature 

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: 5/18/2011
 Invoice # 4643

P.O.#:

Due Date: 6/17/2011
 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:
 MAIER 1-26

Description of Work:
 PROD LONG STRING

DRLG COMP W/O LOE GG

Account	8355-238
Well/Prospect	MAIER-1-26
Deck	
AFE	
Approval	CAF
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 703.35	No	Pump Truck Mileage-Job to Nearest Camp	30	\$307.49	No
Common-Class A	225	\$ 2,819.19	Yes	Salt (Fine)	19	\$272.41	Yes
Gilsonite	1057	\$ 1,628.35	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$230.05	Yes
CFL 117	176	\$ 1,113.46	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	30	\$179.94	No
5 1/2" Basket	3	\$ 708.65	Yes	Flo Seal	56	\$115.03	Yes
CD-110	117	\$ 480.65	Yes	KCL	2	\$61.33	Yes
5 1/2" Turbolizer	8	\$ 476.54	Yes				
Bulk Truck Matl-Material Service Charge	225	\$ 462.16	No				
Mud Clear	500	\$ 380.00	Yes				
Defoamer A or CAF-38	50	\$ 359.46	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 314.27	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 10,612.33
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,591.85)

SubTotal for Taxable Items: \$ 7,615.48
 SubTotal for Non-Taxable Items: \$ 807.15

6.30% Rush County Sales Tax

Total: \$ 9,020.48
 Tax: \$ 479.78

Thank You For Your Business!

Amount Due: \$ 9,500.26
Applied Payments:
Balance Due: \$ 9,500.26

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. 4643

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-16-11	26	16	16	Rush	Kansas		2-15A

Lease	Well No.	Location
Mayer	1-26	Galatia SW 15 16 Ninto

Contractor	Owner
VAK Energy Risk	To Quality Oilwell Cementing, Inc.

Type Job	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
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Hole Size	T.D.	Charge To
7 7/8	3660	Samuel Gary Jr. & Associates

Csg.	Depth	Street
5 1/2 15.5D	3651	

Tbg. Size	Depth	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
21	21	225 Q-Pr-C 128 Salt

Meas Line	Displace	58 bitsuite, 3" CD-110, 8" CFL-117, 25" CAF-38
	86 1/2 Bbl	Common 500 gal Mud Clar-48 20 Bbl KCL

EQUIPMENT

Pumptrk	No.	Cement Helper	
5		Steve	
Bulktrk	No.	Driver	
8		Brandon	
Bulktrk	No.	Driver	
		Corey	

JOB SERVICES & REMARKS

Remarks: ~~CD-110 117#~~ 20 BBL KCL

Rat Hole 30sx Salt 19

Mouse Hole 20sx Flowseal 56#

Centralizers 1 3 5 7 9 11 13 15 Kol-Seal 1057#

Baskets 3 9 15 Mud CLR 48 500 gal

D/V or Port Collar CFL-117 or CD110-CAF38 50#

30sx Rat Hole Sand CFL 117 176#

20sx Mouse Hole Handling

Pump 500 gal Mud Clar-48 Mileage

Mix 175sx cement down 5" casing

K-release plug displace 86 1/2 Bbl

20 Bbl KCL w/ displacement

Land plug @ 1300 psi

Float Hold

FLOAT EQUIPMENT

Guide Shoe

Centralizer 8 Turbos

Baskets 3

AFU Inserts

Float Shoe 1

Latch Down 1

Rotating Head

Pumptrk Charge prod long string

Mileage 30

Tax

Discount

Total Charge

Signature



DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Neil

26/16S/16W-Rush

Maier 1-26

Start Date: 2011.05.12 @ 00:15:02

End Date: 2011.05.12 @ 07:37:02

Job Ticket #: 42822 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.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42822

DST#: 1

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

GENERAL INFORMATION:

Formation: **LKC 'D&E'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:17:32

Time Test Ended: 07:37:02

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3303.00 ft (KB) To 3329.00 ft (KB) (TVD)

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3329.00 ft (KB) (TVD)

1975.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 27.21 psig @ 3306.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.12 End Date: 2011.05.12

Last Calib.: 2011.05.12

Start Time: 00:25:02 End Time: 07:37:02

Time On Btm: 2011.05.12 @ 02:16:32

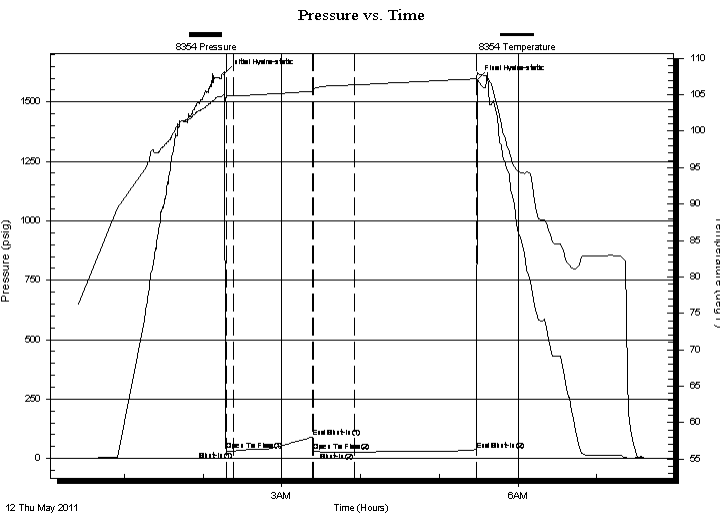
Time Off Btm: 2011.05.12 @ 05:29:02

TEST COMMENT: IF-Weak surface blow .

ISI-No Return.

FF-Few bubbles. Then died.

FSI-No Return. Time Intervals- 5-60-30-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.95	105.08	Initial Hydro-static
1	33.62	104.84	Open To Flow (1)
7	30.59	104.84	Shut-In(1)
67	90.17	105.47	End Shut-In(1)
68	28.49	105.77	Open To Flow (2)
99	27.21	106.36	Shut-In(2)
192	36.76	107.19	End Shut-In(2)
193	1593.37	108.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	75%Mud/25%Oil	0.04

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42822

DST#: 1

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

Tool Information

Drill Pipe:	Length: 3286.00 ft	Diameter: 3.80 inches	Volume: 46.09 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: 46.09 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3303.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	56.00 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	3273.00	
Change Over Sub	1.00			3274.00	
Shut In Tool	5.00			3279.00	
Sampler	2.00			3281.00	
Hydraulic tool	5.00			3286.00	
Jars	5.00			3291.00	
Safety Joint	3.00			3294.00	
Packer	5.00			3299.00	30.00 Bottom Of Top Packer
Packer	4.00			3303.00	
Stubb	1.00			3304.00	
Perforations	2.00			3306.00	
Recorder	0.00	8354	Inside	3306.00	
Recorder	0.00	8520	Outside	3306.00	
Perforations	20.00			3326.00	
Bullnose	3.00			3329.00	26.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42822

DST#: 1

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	75%Mud/25%Oil	0.042

Total Length: 3.00 ft Total Volume: 0.042 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-1500ML-Mud/500ML-Oil Pressure-25#



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42822

DST#: 1

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

Gas Rates Information

Temperature: 59 deg C

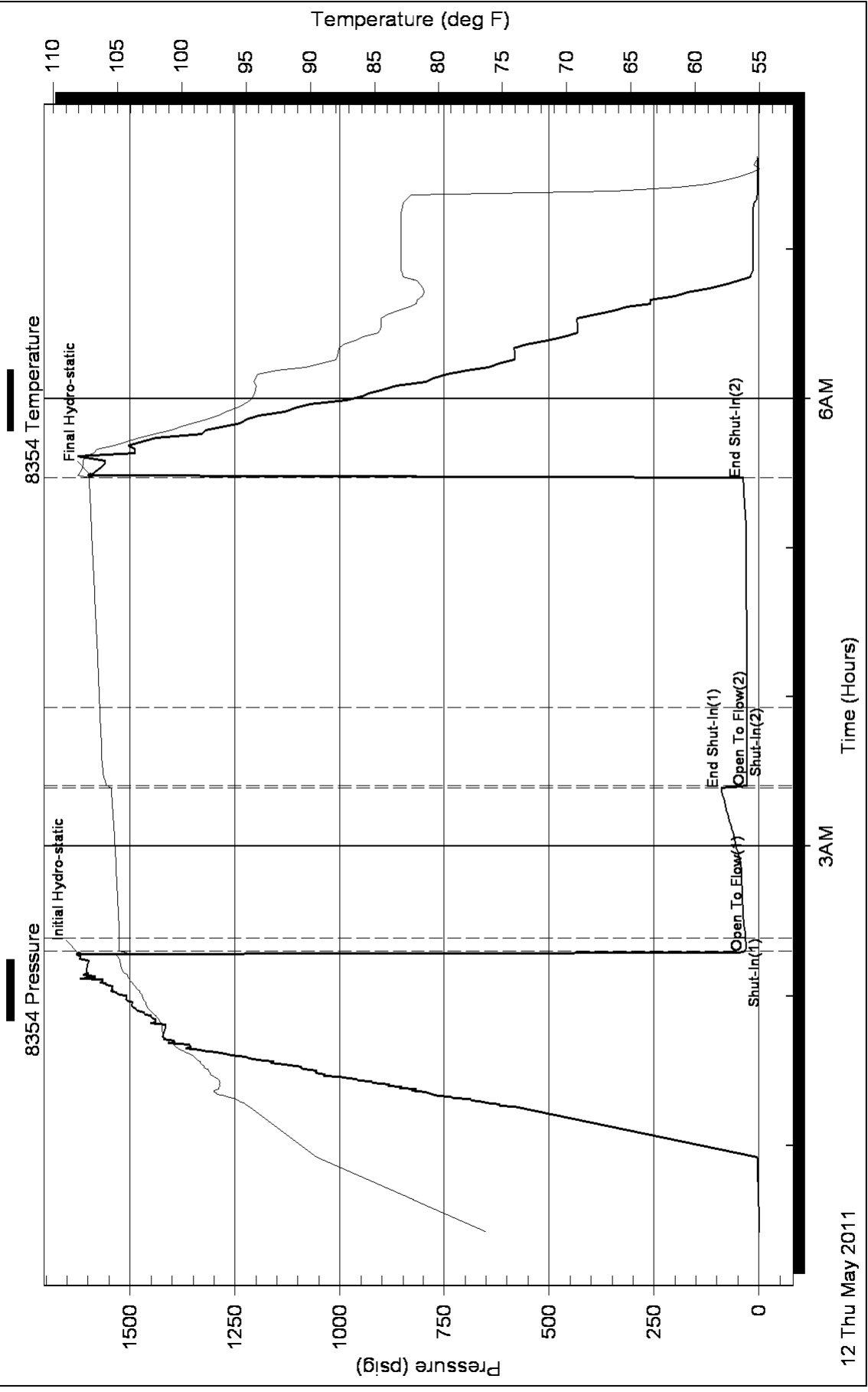
Relative Density: 0.65

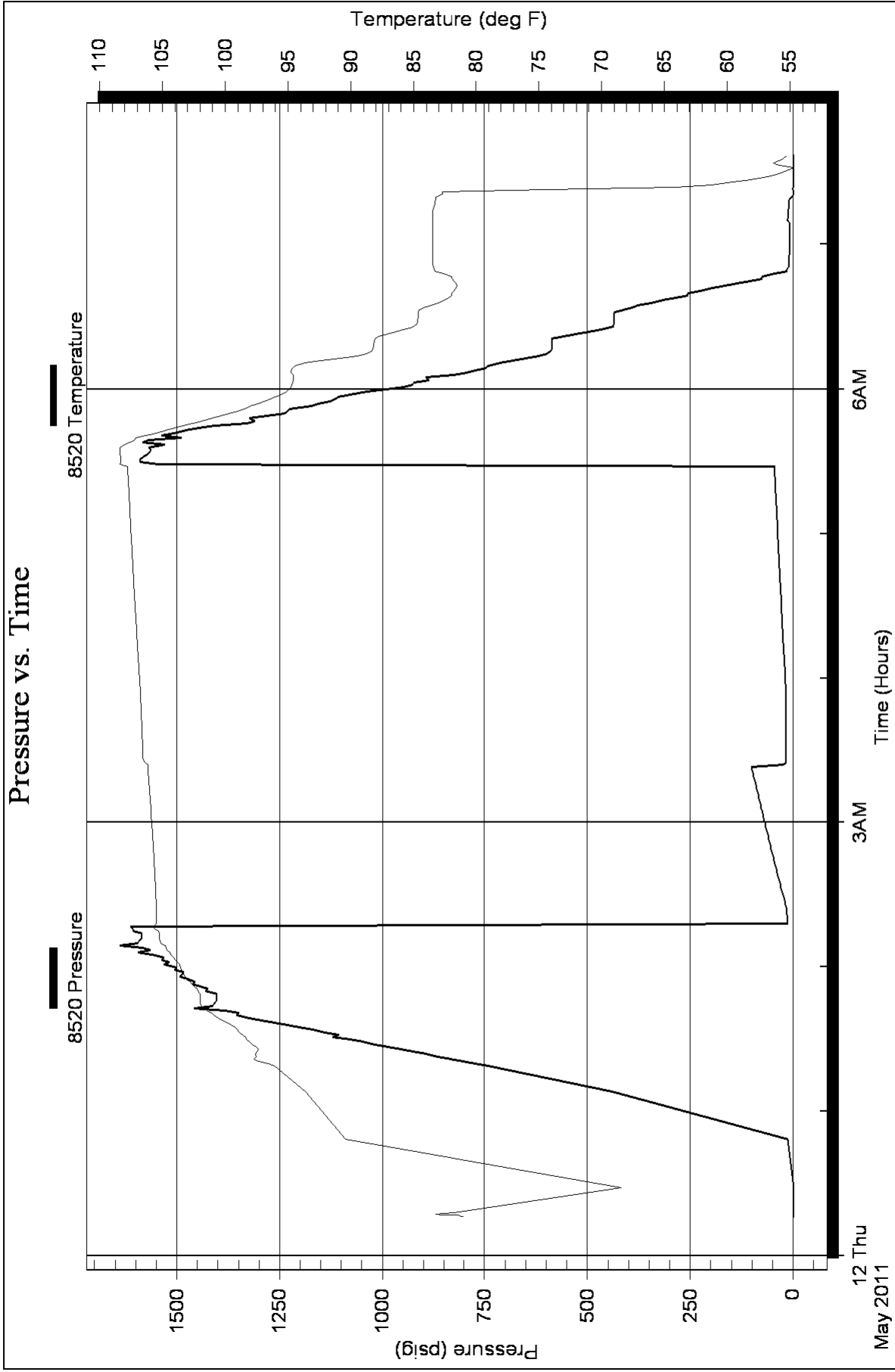
Z Factor: 0.8

Gas Rates Table

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

Pressure vs. Time





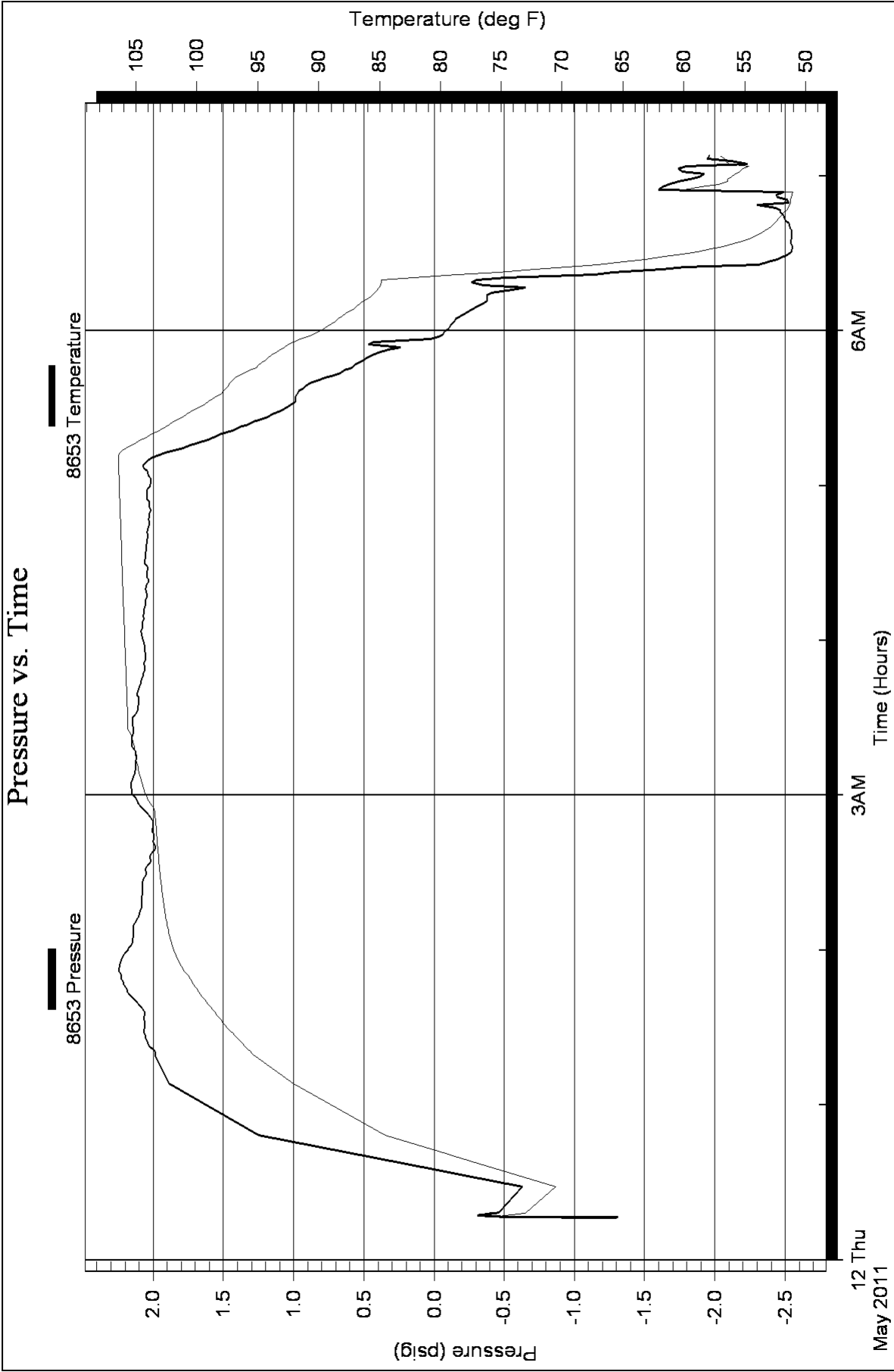
Serial #: 8653

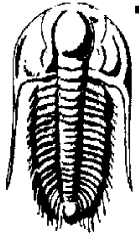
Fluid

Samuel Gary Jr. & Associates Inc.

26/16S/16W-Rush

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42822

DST#: 1

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.18	76.3		65.7	1092.50	98.2
	30.0	3.97	89.5		66.2	1091.93	98.2
	50.2	583.26	94.8		66.7	1119.67	98.3
	50.7	617.48	94.9		67.2	1132.75	98.4
	51.2	617.43	95.0		67.7	1164.82	98.6
	51.7	651.54	95.1		68.2	1157.48	98.6
	52.2	654.00	95.5		68.7	1179.20	98.7
	52.7	685.02	95.6		69.2	1196.69	98.8
	53.2	686.36	95.8		69.7	1215.64	98.9
	53.7	726.81	96.0		70.2	1225.78	99.0
	54.2	735.84	96.4		70.7	1258.95	99.1
	54.7	763.62	96.6		71.2	1265.17	99.3
	55.2	777.26	97.2		71.7	1283.65	99.5
	55.7	789.26	97.3		72.2	1294.07	99.7
	56.2	792.51	97.5		72.7	1328.81	99.9
	56.7	828.12	97.5		73.2	1330.57	100.1
	57.2	816.23	97.1		73.7	1367.53	100.3
	57.7	858.30	97.1		74.2	1355.52	100.5
	58.2	853.37	97.0		74.7	1358.62	100.6
	58.7	885.83	97.0		75.2	1358.32	100.6
	59.2	882.74	97.1		75.7	1409.63	100.7
	59.7	921.64	97.0		76.2	1392.27	100.9
	60.2	924.59	97.1		76.7	1394.15	101.0
	60.7	955.90	97.1		77.2	1419.93	101.1
	61.2	961.31	97.2		77.7	1419.16	101.3
	61.7	978.28	97.2		78.2	1421.91	101.4
	62.2	1000.71	97.5		78.7	1421.80	101.4
	62.7	1039.21	97.5		79.2	1420.97	101.5
	63.2	1035.81	97.8		79.7	1420.03	101.5
	63.7	1057.33	97.8		80.2	1419.02	101.5
	64.2	1056.49	97.9		80.7	1417.99	101.5
	64.7	1055.49	97.9		81.2	1417.04	101.5
	65.2	1083.96	98.0		81.7	1416.11	101.5

Printing every 3 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	82.2	1415.37	101.5		102.7	1582.05	104.2
	82.7	1414.63	101.5		103.2	1611.59	104.2
	83.2	1413.85	101.5		103.7	1599.09	104.4
	83.7	1451.95	101.5		104.2	1603.35	104.5
	84.2	1439.21	101.6		104.7	1603.67	104.6
	84.7	1439.61	101.7		105.2	1603.55	104.6
	85.2	1438.73	101.7		105.7	1602.80	104.7
	85.7	1446.35	101.8		106.2	1602.19	104.7
	86.2	1449.91	102.0		106.7	1601.47	104.7
	86.7	1450.03	102.0		107.2	1600.53	104.8
	87.2	1463.77	102.1		107.7	1600.03	104.8
	87.7	1466.78	102.2		108.2	1599.20	104.8
	88.2	1466.76	102.3		108.7	1598.15	104.8
	88.7	1482.63	102.4		109.2	1611.09	104.8
	89.2	1485.60	102.5		109.7	1621.15	104.8
	89.7	1485.42	102.6		110.5	1616.69	105.0
	90.2	1494.03	102.7		111.0	1616.87	105.0
	90.7	1496.17	102.7	Initial Hydro-static	111.5	1620.95	105.1
	91.2	1495.95	102.8		112.0	45.65	104.2
	91.7	1494.93	102.8	Open To Flow (1)	112.5	33.62	104.8
	92.2	1494.09	102.8		113.0	31.25	104.9
	92.7	1505.99	102.9		114.5	30.43	104.8
	93.2	1509.38	103.0		116.0	30.06	104.8
	93.7	1509.35	103.0		117.0	30.57	104.8
	94.2	1508.89	103.0		117.5	30.63	104.8
	94.7	1507.86	103.0	Shut-In(1)	118.0	30.59	104.8
	95.2	1526.32	103.1		118.5	30.58	104.8
	95.7	1531.35	103.2		119.0	31.51	104.8
	96.2	1531.13	103.2		119.5	31.97	104.8
	96.7	1546.35	103.3		121.0	33.26	104.9
	97.2	1541.07	103.4		122.5	34.38	104.9
	97.7	1542.37	103.5		124.0	35.14	104.9
	98.2	1542.40	103.5		125.5	35.94	104.9
	98.7	1541.33	103.6		127.0	36.55	104.9
	99.2	1557.71	103.7		128.5	37.00	104.9
	99.7	1557.72	103.8		130.0	37.59	104.9
	100.2	1572.64	103.8		131.5	38.05	105.0
	100.7	1564.07	104.0		133.0	38.55	105.0
	101.2	1564.48	104.0		134.5	38.90	105.0
	101.7	1619.94	104.1		136.0	39.02	105.0
	102.2	1581.85	104.1		137.5	39.35	105.0

Printing every 3 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	139.0	39.65	105.0		194.5	27.28	106.2
	140.5	39.89	105.0		196.0	27.20	106.3
	142.0	40.07	105.1		197.5	27.12	106.3
	143.5	40.45	105.1		199.0	27.07	106.3
	145.0	40.73	105.1		200.5	27.04	106.3
	146.5	41.44	105.1		202.0	26.98	106.3
	148.0	42.57	105.1		203.5	26.98	106.3
	149.5	45.50	105.1		205.0	26.98	106.3
	151.0	47.80	105.1		206.5	27.00	106.3
	152.5	50.13	105.2		208.0	27.06	106.3
	154.0	52.93	105.2		209.5	27.14	106.4
	155.5	55.09	105.2		210.0	27.17	106.4
	157.0	57.25	105.2	Shut-In(2)	210.5	27.21	106.4
	158.5	59.38	105.2		211.0	27.24	106.4
	160.0	61.69	105.2		211.5	27.27	106.4
	161.5	64.07	105.3		212.0	27.30	106.4
	163.0	66.65	105.3		213.5	27.39	106.4
	164.5	68.87	105.3		215.0	27.48	106.4
	166.0	71.31	105.3		216.5	27.56	106.4
	167.5	73.62	105.3		218.0	27.65	106.4
	169.0	76.05	105.4		219.5	27.73	106.4
	170.5	78.32	105.4		221.0	27.80	106.4
	172.0	80.66	105.4		222.5	27.89	106.5
	173.5	82.94	105.4		224.0	27.94	106.5
	175.0	85.42	105.4		225.5	28.01	106.5
	176.5	87.70	105.5		227.0	28.07	106.5
	177.0	88.49	105.5		228.5	28.13	106.5
	177.5	89.23	105.5		230.0	28.18	106.5
End Shut-In(1)	178.0	90.17	105.5		231.5	28.23	106.5
	178.5	33.46	105.5		233.0	28.27	106.6
Open To Flow (2)	179.0	28.49	105.8		234.5	28.31	106.6
	179.5	28.60	105.8		236.0	28.36	106.6
	181.0	28.38	106.0		237.5	28.41	106.6
	182.5	28.55	106.0		239.0	28.46	106.6
	184.0	27.95	106.1		240.5	28.50	106.6
	185.5	27.88	106.1		242.0	28.55	106.6
	187.0	27.79	106.2		243.5	28.60	106.7
	188.5	27.66	106.2		245.0	28.64	106.7
	190.0	27.95	106.2		246.5	28.70	106.7
	191.5	27.42	106.2		248.0	28.76	106.7
	193.0	27.34	106.2		249.5	28.81	106.7

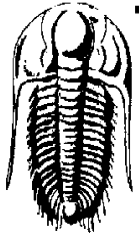
Printing every 3 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	251.0	28.87	106.7		307.5	1566.47	107.7
	252.5	28.93	106.7		309.0	1558.47	107.7
	254.0	28.97	106.7		310.5	1561.36	107.7
	255.5	29.03	106.8		312.0	1615.98	107.0
	257.0	29.09	106.8		313.5	1564.80	106.7
	258.5	29.16	106.8		315.0	1533.27	105.9
	260.0	29.22	106.8		316.5	1500.98	105.0
	261.5	29.27	106.8		318.0	1416.53	104.1
	263.0	29.31	106.8		319.5	1410.81	102.8
	264.5	29.37	106.8		321.0	1363.74	101.7
	266.0	29.41	106.9		322.5	1317.29	100.8
	267.5	29.45	106.9		324.0	1270.04	99.7
	269.0	29.50	106.9		325.5	1228.72	98.6
	270.5	29.57	106.9		327.0	1225.20	97.8
	272.0	29.63	106.9		328.5	1150.04	97.1
	273.5	29.70	106.9		330.0	1135.43	96.2
	275.0	29.78	106.9		331.5	1097.62	95.6
	276.5	29.86	107.0		333.0	1004.44	94.9
	278.0	29.96	107.0		334.5	991.20	94.6
	279.5	30.10	107.0		336.0	912.73	94.4
	281.0	29.94	107.0		337.5	925.16	94.3
	282.5	29.95	107.0		339.0	893.56	94.2
	284.0	30.27	107.0		340.5	825.87	94.2
	285.5	30.41	107.0		342.0	805.22	94.4
	287.0	31.24	107.1		343.5	749.58	94.2
	288.5	31.85	107.1		345.0	711.32	93.6
	290.0	32.27	107.1		346.5	676.59	91.5
	291.5	32.73	107.1		348.0	624.03	90.1
	293.0	33.45	107.1		349.5	583.86	88.4
	294.5	33.93	107.1		351.0	581.29	87.9
	296.0	34.35	107.1		352.5	580.33	87.8
	297.5	34.90	107.1		354.0	580.41	87.8
	299.0	35.44	107.2		355.5	573.23	87.8
	300.5	35.93	107.2		357.0	528.71	87.3
	302.0	36.61	107.2		358.5	499.37	86.4
	302.5	36.69	107.2		360.0	455.73	85.7
End Shut-In(2)	303.0	36.76	107.2		361.5	431.25	84.7
	303.5	1527.66	107.9		363.0	430.86	84.6
Final Hydro-static	304.0	1593.37	108.1		364.5	431.40	84.5
	304.5	1582.44	107.9		366.0	432.15	84.5
	306.0	1578.85	107.8		367.5	411.91	84.5

Printing every 3 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	369.0	375.73	83.6		430.5	3.42	55.2
	370.5	343.71	82.8		432.0	3.39	55.0
	372.0	286.97	82.0				
	373.5	258.82	81.7				
	375.0	228.77	81.5				
	376.5	199.28	81.2				
	378.0	154.04	81.1				
	379.5	110.75	81.3				
	381.0	80.34	81.5				
	382.5	49.99	82.1				
	384.0	19.88	82.8				
	385.5	16.79	82.9				
	387.0	13.77	82.9				
	388.5	13.71	82.9				
	390.0	13.75	82.9				
	391.5	13.01	82.9				
	393.0	12.92	82.9				
	394.5	12.88	82.9				
	396.0	12.81	82.9				
	397.5	12.71	82.9				
	399.0	12.67	82.9				
	400.5	12.77	82.9				
	402.0	12.62	82.9				
	403.5	12.58	82.9				
	405.0	12.52	83.0				
	406.5	13.27	82.9				
	408.0	13.68	82.9				
	409.5	13.67	82.9				
	411.0	13.89	82.9				
	412.5	13.38	82.8				
	414.0	10.63	82.7				
	415.5	4.07	82.3				
	417.0	3.95	81.4				
	418.5	2.53	64.1				
	420.0	2.61	60.5				
	421.5	2.84	58.6				
	423.0	3.04	57.3				
	424.5	3.17	56.4				
	426.0	3.07	55.4				
	427.5	3.14	54.8				
	429.0	3.29	55.4				

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42822

DST#: 1

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.45	81.0		1.6	-1.25	81.9
	0.1	-1.50	81.0		1.7	-1.23	81.8
	0.1	-1.45	81.1		1.8	-1.24	81.7
	0.2	-1.41	81.1		1.8	-1.24	81.6
	0.2	-1.40	81.1		1.9	-1.24	81.5
	0.3	-1.36	81.2		1.9	-1.25	81.4
	0.3	-1.36	81.2		2.0	-1.29	81.3
	0.3	-1.34	81.2		12.0	-1.27	68.5
	0.4	-1.31	81.2		42.0	135.87	89.6
	0.4	-1.31	81.1		62.5	741.91	96.1
	0.5	-1.34	81.1		64.0	804.08	96.7
	0.6	-1.38	81.2		65.5	833.74	97.7
	0.6	-1.40	81.3		67.0	916.92	97.5
	0.6	-1.42	81.7		68.5	925.47	97.5
	0.7	-1.43	82.1		70.0	966.64	97.3
	0.8	-1.44	82.5		71.5	1017.26	97.8
	0.8	-1.44	82.9		73.0	1096.61	98.1
	0.9	-1.45	83.1		74.5	1120.98	98.4
	0.9	-1.44	83.2		76.0	1188.35	98.7
	0.9	-1.44	83.2		77.5	1170.71	99.0
	1.0	-1.42	83.2		79.0	1245.90	99.3
	1.0	-1.40	83.1		80.5	1262.84	99.8
	1.1	-1.39	83.0		82.0	1339.11	100.3
	1.1	-1.38	82.9		83.5	1354.47	100.9
	1.2	-1.36	82.8		85.0	1456.37	101.2
	1.3	-1.35	82.7		86.5	1457.15	101.6
	1.3	-1.33	82.6		88.0	1410.44	101.9
	1.4	-1.33	82.5		89.5	1404.99	102.0
	1.4	-1.32	82.4		91.0	1402.68	102.0
	1.5	-1.31	82.3		92.5	1402.12	102.0
	1.5	-1.30	82.2		94.0	1427.02	102.2
	1.5	-1.27	82.1		95.5	1443.87	102.5
	1.6	-1.26	82.0		97.0	1458.68	102.7

Printing every 3 samples

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	1474.24	103.0		160.0	63.18	105.8
	100.0	1490.56	103.2		161.5	65.74	105.8
	101.5	1483.26	103.3		163.0	67.54	105.8
	103.0	1503.19	103.5		164.5	69.59	105.9
	104.5	1531.46	103.6		166.0	71.49	105.9
	106.0	1591.80	103.9		167.5	73.56	105.9
	107.5	1531.87	104.1		169.0	75.80	105.9
	109.0	1548.42	104.3		170.5	77.95	105.9
	110.5	1564.06	104.6		172.0	79.93	106.0
	112.0	1579.61	104.7		173.5	82.12	106.0
	113.5	1595.20	105.1		175.0	84.27	106.0
	115.0	1587.72	105.2		176.5	86.38	106.0
	116.5	1585.37	105.2		178.0	88.60	106.0
	118.0	1584.11	105.3		179.5	90.77	106.1
	119.5	1607.58	105.6		181.0	93.06	106.1
	121.0	14.10	104.7		182.5	95.12	106.1
	122.5	13.45	105.5		184.0	97.50	106.1
	124.0	13.51	105.5		185.5	99.52	106.1
	125.5	14.40	105.5		187.0	101.92	106.2
	127.0	14.44	105.5		188.5	16.15	106.4
	128.5	16.20	105.5		190.0	16.26	106.5
	130.0	18.67	105.5		191.5	16.13	106.6
	131.5	21.21	105.5		193.0	16.19	106.6
	133.0	23.57	105.5		194.5	16.24	106.6
	134.5	26.00	105.5		196.0	16.24	106.6
	136.0	28.30	105.5		197.5	16.23	106.6
	137.5	30.51	105.5		199.0	16.23	106.6
	139.0	32.84	105.6		200.5	16.22	106.6
	140.5	35.14	105.6		202.0	16.22	106.6
	142.0	37.24	105.6		203.5	16.21	106.6
	143.5	39.64	105.6		205.0	16.21	106.6
	145.0	41.81	105.6		206.5	16.20	106.6
	146.5	44.04	105.6		208.0	16.18	106.7
	148.0	46.14	105.7		209.5	16.17	106.7
	149.5	48.30	105.7		211.0	16.16	106.7
	151.0	50.44	105.7		212.5	16.20	106.7
	152.5	52.66	105.7		214.0	16.40	106.7
	154.0	54.75	105.7		215.5	16.18	106.7
	155.5	56.85	105.7		217.0	16.15	106.8
	157.0	58.92	105.8		218.5	16.39	106.8
	158.5	61.21	105.8		220.0	17.07	106.8

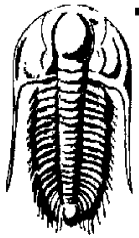
Printing every 3 samples

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	17.53	106.8		283.0	36.43	107.5
	223.0	18.12	106.8		284.5	36.73	107.5
	224.5	18.65	106.8		286.0	37.18	107.5
	226.0	19.12	106.8		287.5	37.62	107.5
	227.5	19.52	106.9		289.0	38.11	107.5
	229.0	20.04	106.9		290.5	38.43	107.6
	230.5	20.59	106.9		292.0	38.84	107.6
	232.0	20.95	106.9		293.5	39.47	107.6
	233.5	21.61	106.9		295.0	39.92	107.6
	235.0	21.85	106.9		296.5	40.20	107.6
	236.5	22.46	107.0		298.0	40.66	107.6
	238.0	22.94	107.0		299.5	41.15	107.6
	239.5	23.32	107.0		301.0	41.60	107.7
	241.0	23.86	107.0		302.5	41.91	107.7
	242.5	24.30	107.0		304.0	42.43	107.7
	244.0	24.73	107.1		305.5	42.88	107.7
	245.5	25.14	107.1		307.0	43.29	107.7
	247.0	25.54	107.1		308.5	43.53	107.7
	248.5	26.09	107.1		310.0	44.40	107.7
	250.0	26.57	107.1		311.5	44.58	107.8
	251.5	26.94	107.1		313.0	1595.55	108.4
	253.0	27.54	107.2		314.5	1589.85	108.3
	254.5	27.86	107.2		316.0	1575.83	108.3
	256.0	28.36	107.2		317.5	1566.20	108.3
	257.5	28.68	107.2		319.0	1564.90	108.3
	259.0	29.19	107.2		320.5	1529.48	108.1
	260.5	29.69	107.2		322.0	1501.72	107.5
	262.0	30.17	107.3		323.5	1489.53	107.1
	263.5	30.66	107.3		325.0	1510.98	105.8
	265.0	30.92	107.3		326.5	1478.35	104.7
	266.5	31.52	107.3		328.0	1445.58	103.7
	268.0	32.00	107.3		329.5	1328.16	102.6
	269.5	32.48	107.3		331.0	1325.86	101.1
	271.0	32.78	107.3		332.5	1280.81	100.4
	272.5	33.24	107.4		334.0	1244.39	99.4
	274.0	33.74	107.4		335.5	1225.01	98.5
	275.5	34.20	107.4		337.0	1201.73	97.5
	277.0	34.72	107.4		338.5	1129.19	96.9
	278.5	35.02	107.4		340.0	1109.94	96.1
	280.0	35.46	107.4		341.5	1078.08	95.5
	281.5	35.77	107.5		343.0	991.30	95.0

Printing every 3 samples

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	948.04	94.8		406.0	8.13	83.5
	346.0	943.93	94.7		407.5	8.13	83.5
	347.5	887.79	94.6		409.0	8.13	83.5
	349.0	864.52	94.5		410.5	8.13	83.5
	350.5	793.62	94.7		412.0	8.09	83.5
	352.0	773.47	94.7		413.5	13.13	83.5
	353.5	741.98	94.4		415.0	10.60	83.5
	355.0	673.28	93.3		416.5	11.98	83.5
	356.5	650.50	90.8		418.0	11.94	83.5
	358.0	619.27	89.1		419.5	9.63	83.4
	359.5	588.09	88.3		421.0	8.83	83.3
	361.0	585.88	88.2		422.5	8.75	83.3
	362.5	584.74	88.2		424.0	-0.18	83.1
	364.0	588.51	88.1		425.5	-1.09	82.7
	365.5	558.75	87.8		427.0	-0.46	66.7
	367.0	501.42	86.8		428.5	-0.97	61.3
	368.5	467.25	85.9		430.0	-1.05	58.8
	370.0	437.24	84.9		431.5	-1.10	57.1
	371.5	435.13	84.7		433.0	-1.10	55.9
	373.0	434.62	84.7		434.5	-1.09	55.1
	374.5	434.48	84.6		436.0	-1.17	54.5
	376.0	434.45	84.6		437.5	-1.09	56.3
	377.5	392.51	84.2		439.0	-1.16	55.7
	379.0	336.49	83.4		440.5	-1.06	55.2
	380.5	316.31	82.6		441.0	-0.98	55.5
	382.0	255.68	82.0				
	383.5	255.86	81.9				
	385.0	194.98	81.6				
	386.5	165.89	81.5				
	388.0	117.50	81.6				
	389.5	75.24	81.9				
	391.0	45.21	82.0				
	392.5	14.96	83.3				
	394.0	15.03	83.4				
	395.5	8.69	83.5				
	397.0	8.72	83.5				
	398.5	8.45	83.5				
	400.0	8.75	83.5				
	401.5	8.16	83.5				
	403.0	8.14	83.5				
	404.5	8.13	83.5				

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42822

DST#: 1

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

Serial # 8653 Fluid				Serial # 8653 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.30	74.8		1.6	-0.40	73.5
	0.1	-1.23	74.9		1.7	-0.40	73.4
	0.1	-1.28	75.0		1.8	-0.40	73.3
	0.2	-1.26	75.1		1.8	-0.41	73.2
	0.2	-1.03	75.1		1.9	-0.41	73.1
	0.3	-1.34	75.1		1.9	-0.41	73.1
	0.3	-1.17	75.2		2.0	-0.45	73.0
	0.3	-0.58	74.5		12.0	-0.63	70.5
	0.4	-0.54	74.7		42.0	1.67	88.9
	0.4	-0.52	75.0		62.5	1.98	95.2
	0.5	-0.50	75.1		64.0	2.00	95.5
	0.6	-0.48	75.1		65.5	2.01	95.9
	0.6	-0.45	75.1		67.0	2.03	96.2
	0.6	-0.42	75.0		68.5	2.04	96.5
	0.7	-0.40	75.0		70.0	2.06	96.8
	0.8	-0.38	74.9		71.5	2.06	97.1
	0.8	-0.36	74.9		73.0	2.06	97.4
	0.9	-0.34	74.8		74.5	2.06	97.7
	0.9	-0.33	74.7		76.0	2.06	97.9
	0.9	-0.32	74.7		77.5	2.06	98.2
	1.0	-0.31	74.6		79.0	2.07	98.4
	1.0	-0.31	74.5		80.5	2.07	98.7
	1.1	-0.31	74.4		82.0	2.09	98.9
	1.1	-0.32	74.3		83.5	2.11	99.2
	1.2	-0.32	74.2		85.0	2.14	99.4
	1.3	-0.32	74.1		86.5	2.17	99.7
	1.3	-0.34	74.0		88.0	2.18	99.9
	1.4	-0.35	73.9		89.5	2.19	100.1
	1.4	-0.36	73.9		91.0	2.21	100.3
	1.5	-0.37	73.8		92.5	2.22	100.5
	1.5	-0.38	73.7		94.0	2.23	100.8
	1.5	-0.39	73.6		95.5	2.24	101.0
	1.6	-0.40	73.5		97.0	2.24	101.2

Printing every 3 samples

Serial # 8653				Serial # 8653			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	2.23	101.4		160.0	2.09	103.7
	100.0	2.23	101.6		161.5	2.11	103.9
	101.5	2.21	101.7		163.0	2.13	104.1
	103.0	2.19	101.8		164.5	2.15	104.2
	104.5	2.17	101.9		166.0	2.15	104.3
	106.0	2.15	102.0		167.5	2.16	104.5
	107.5	2.14	102.1		169.0	2.15	104.6
	109.0	2.13	102.2		170.5	2.14	104.6
	110.5	2.14	102.3		172.0	2.13	104.7
	112.0	2.14	102.4		173.5	2.13	104.8
	113.5	2.14	102.4		175.0	2.11	104.9
	115.0	2.12	102.5		176.5	2.12	104.9
	116.5	2.11	102.6		178.0	2.12	105.0
	118.0	2.10	102.6		179.5	2.12	105.0
	119.5	2.09	102.7		181.0	2.13	105.1
	121.0	2.08	102.7		182.5	2.15	105.1
	122.5	2.08	102.7		184.0	2.14	105.2
	124.0	2.08	102.8		185.5	2.15	105.3
	125.5	2.07	102.8		187.0	2.15	105.4
	127.0	2.07	102.9		188.5	2.14	105.6
	128.5	2.07	102.9		190.0	2.15	105.7
	130.0	2.07	102.9		191.5	2.15	105.7
	131.5	2.07	103.0		193.0	2.14	105.7
	133.0	2.05	103.0		194.5	2.13	105.7
	134.5	2.05	103.0		196.0	2.12	105.7
	136.0	2.04	103.1		197.5	2.11	105.7
	137.5	2.02	103.1		199.0	2.11	105.7
	139.0	2.02	103.1		200.5	2.10	105.7
	140.5	2.02	103.2		202.0	2.11	105.7
	142.0	2.00	103.2		203.5	2.11	105.8
	143.5	1.98	103.2		205.0	2.10	105.8
	145.0	1.99	103.2		206.5	2.09	105.8
	146.5	2.00	103.3		208.0	2.08	105.8
	148.0	2.00	103.3		209.5	2.08	105.8
	149.5	2.00	103.3		211.0	2.06	105.8
	151.0	2.00	103.3		212.5	2.06	105.8
	152.5	2.00	103.4		214.0	2.06	105.8
	154.0	2.00	103.4		215.5	2.06	105.9
	155.5	2.02	103.4		217.0	2.05	105.9
	157.0	2.05	103.4		218.5	2.05	105.9
	158.5	2.08	103.5		220.0	2.06	105.9

Printing every 3 samples

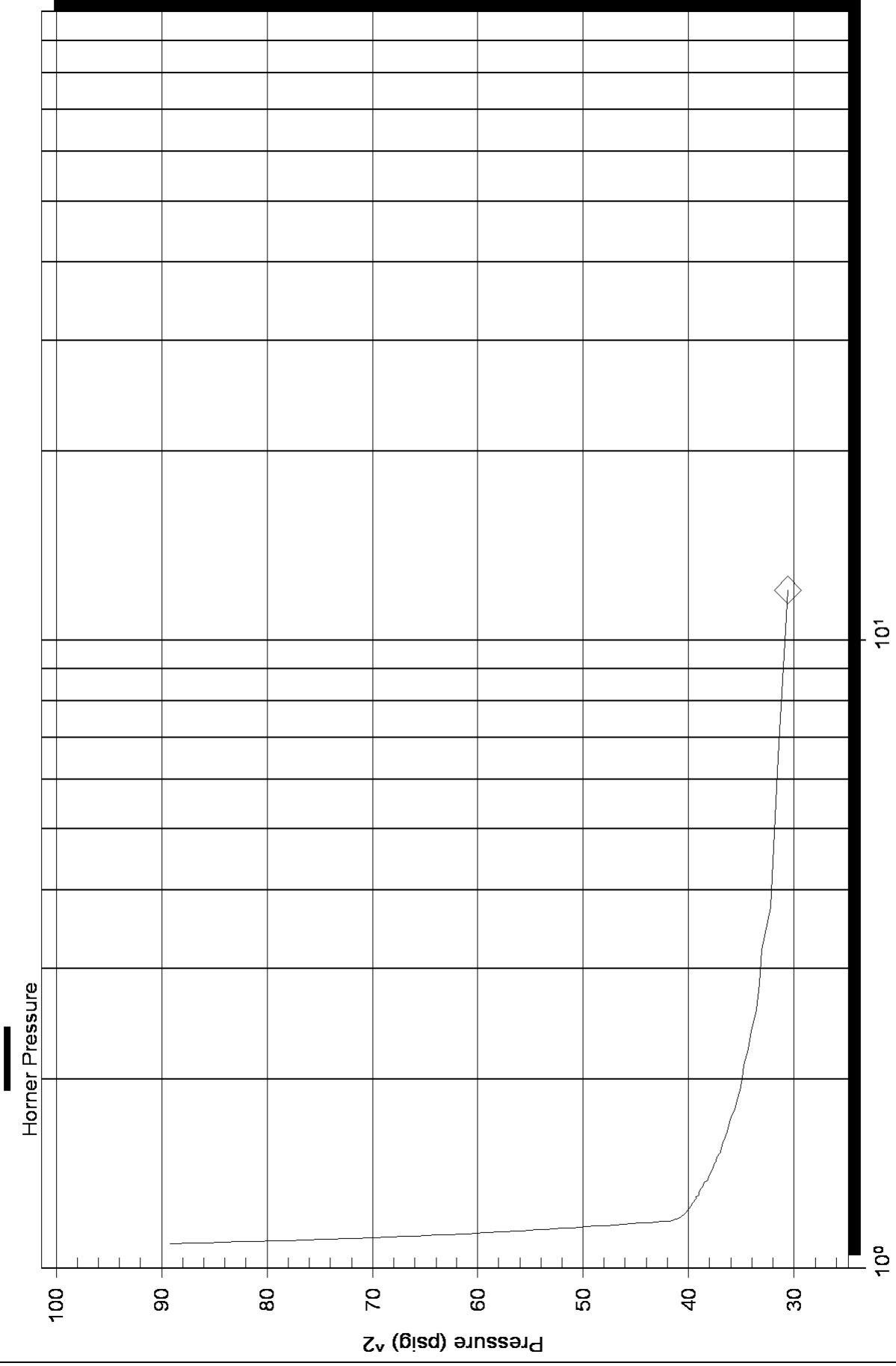
Serial # 8653				Serial # 8653			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	2.06	105.9		283.0	2.03	106.4
	223.0	2.06	105.9		284.5	2.02	106.4
	224.5	2.07	105.9		286.0	2.02	106.4
	226.0	2.08	105.9		287.5	2.03	106.4
	227.5	2.09	105.9		289.0	2.04	106.4
	229.0	2.08	106.0		290.5	2.06	106.4
	230.5	2.08	106.0		292.0	2.06	106.4
	232.0	2.07	106.0		293.5	2.04	106.4
	233.5	2.07	106.0		295.0	2.00	106.4
	235.0	2.06	106.0		296.5	1.91	106.3
	236.5	2.06	106.0		298.0	1.82	106.0
	238.0	2.06	106.0		299.5	1.74	105.4
	239.5	2.06	106.0		301.0	1.65	104.8
	241.0	2.04	106.1		302.5	1.57	104.1
	242.5	2.04	106.1		304.0	1.50	103.6
	244.0	2.05	106.1		305.5	1.42	103.0
	245.5	2.04	106.1		307.0	1.36	102.4
	247.0	2.04	106.1		308.5	1.28	102.0
	248.5	2.05	106.1		310.0	1.21	101.4
	250.0	2.05	106.1		311.5	1.15	100.8
	251.5	2.04	106.1		313.0	1.09	100.3
	253.0	2.05	106.1		314.5	1.04	99.7
	254.5	2.06	106.2		316.0	0.99	99.2
	256.0	2.06	106.2		317.5	0.99	98.7
	257.5	2.05	106.2		319.0	0.98	98.1
	259.0	2.05	106.2		320.5	0.97	97.8
	260.5	2.05	106.2		322.0	0.92	97.5
	262.0	2.04	106.2		323.5	0.88	97.3
	263.5	2.04	106.2		325.0	0.81	97.0
	265.0	2.04	106.2		326.5	0.72	96.5
	266.5	2.04	106.2		328.0	0.65	95.9
	268.0	2.04	106.3		329.5	0.59	95.1
	269.5	2.02	106.3		331.0	0.55	94.8
	271.0	2.03	106.3		332.5	0.51	94.4
	272.5	2.02	106.3		334.0	0.46	94.0
	274.0	2.02	106.3		335.5	0.38	93.4
	275.5	2.02	106.3		337.0	0.28	93.0
	277.0	2.04	106.3		338.5	0.47	92.5
	278.5	2.04	106.3		340.0	0.05	91.8
	280.0	2.04	106.3		341.5	-0.03	91.0
	281.5	2.05	106.3		343.0	-0.06	90.2

Printing every 3 samples

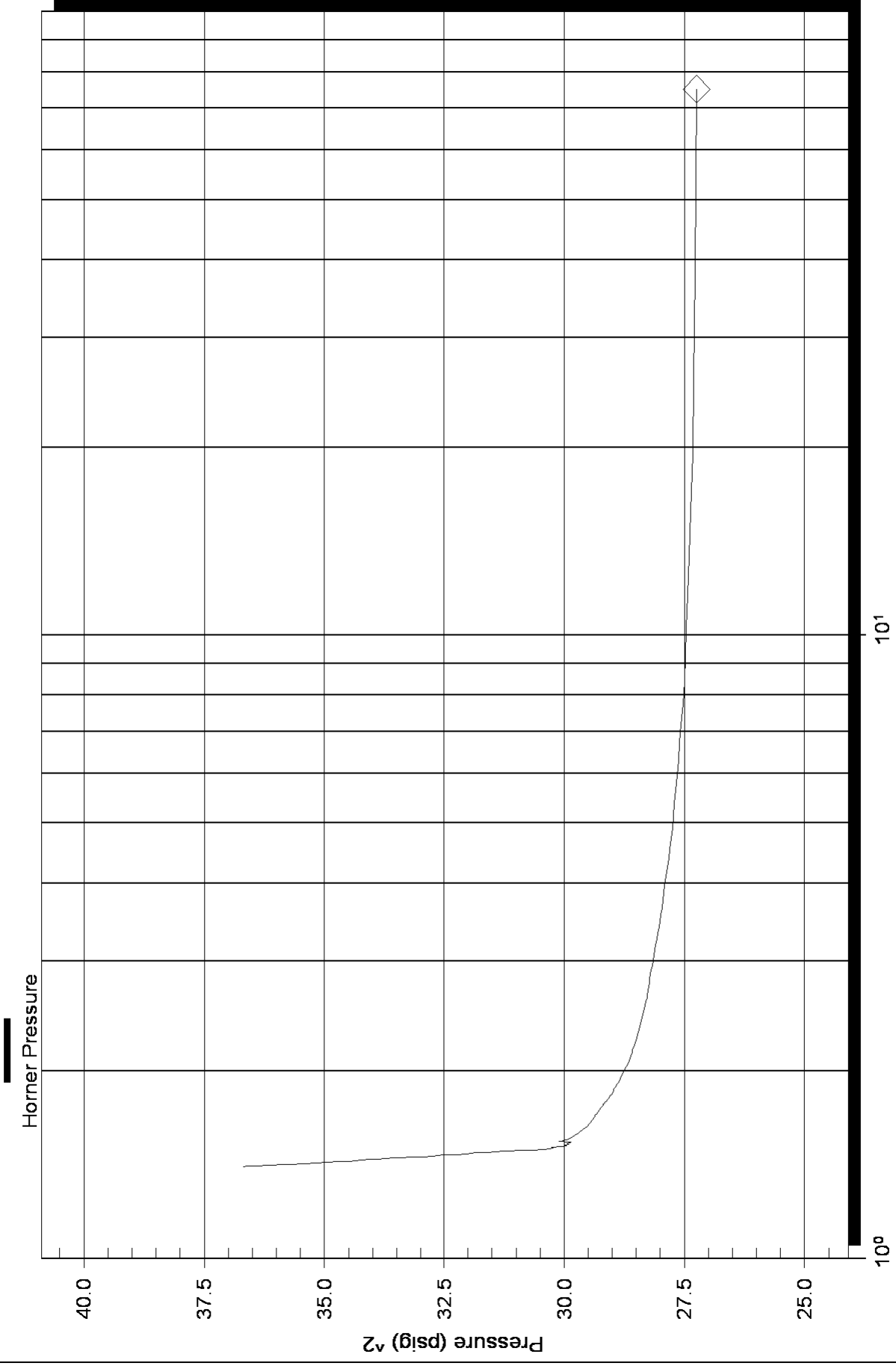
Serial # 8653 Fluid				Serial # 8653 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	-0.10	89.6		406.0	-1.76	55.3
	346.0	-0.13	89.1		407.5	-1.79	54.7
	347.5	-0.15	88.7		409.0	-2.17	56.5
	349.0	-0.17	88.3		410.5	-1.95	56.7
	350.5	-0.23	87.8		411.5	-1.96	57.1
	352.0	-0.27	87.3				
	353.5	-0.32	86.9				
	355.0	-0.37	86.4				
	356.5	-0.38	85.9				
	358.0	-0.38	85.5				
	359.5	-0.52	85.2				
	361.0	-0.43	85.0				
	362.5	-0.27	84.9				
	364.0	-0.30	84.5				
	365.5	-1.14	78.6				
	367.0	-1.39	73.7				
	368.5	-1.78	69.6				
	370.0	-2.35	65.9				
	371.5	-2.44	63.2				
	373.0	-2.51	60.9				
	374.5	-2.54	58.9				
	376.0	-2.54	57.3				
	377.5	-2.54	55.9				
	379.0	-2.54	55.0				
	380.5	-2.55	54.2				
	382.0	-2.54	53.6				
	383.5	-2.53	53.1				
	385.0	-2.53	52.7				
	386.5	-2.50	52.4				
	388.0	-2.49	52.1				
	389.5	-2.47	51.8				
	391.0	-2.46	51.5				
	392.5	-2.30	51.3				
	394.0	-2.44	51.2				
	395.5	-2.45	51.2				
	397.0	-2.47	51.1				
	398.5	-1.60	60.0				
	400.0	-1.65	57.8				
	401.5	-1.74	56.4				
	403.0	-1.86	56.3				
	404.5	-1.92	55.8				

Printing every 3 samples

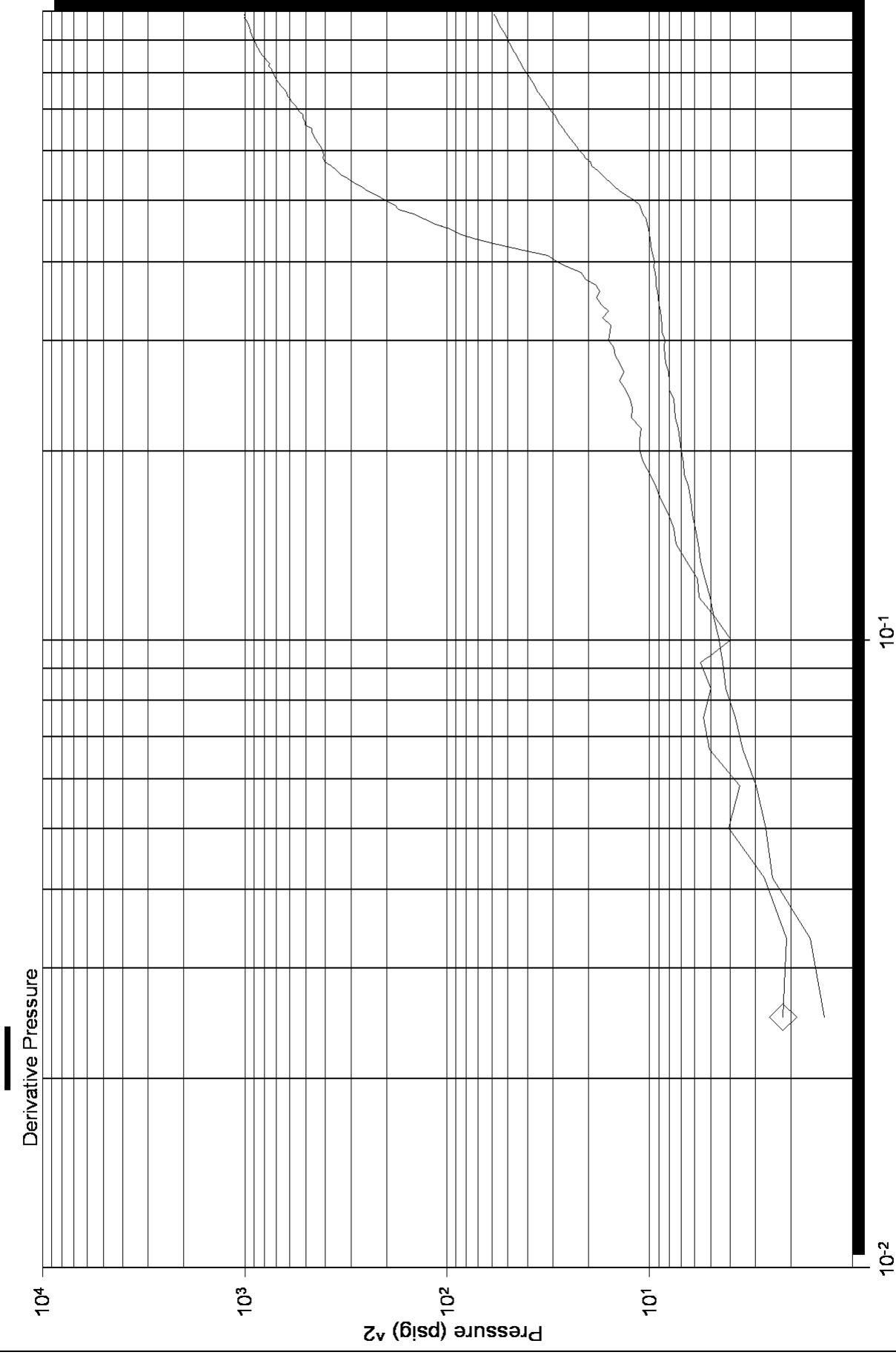
Homer Plot



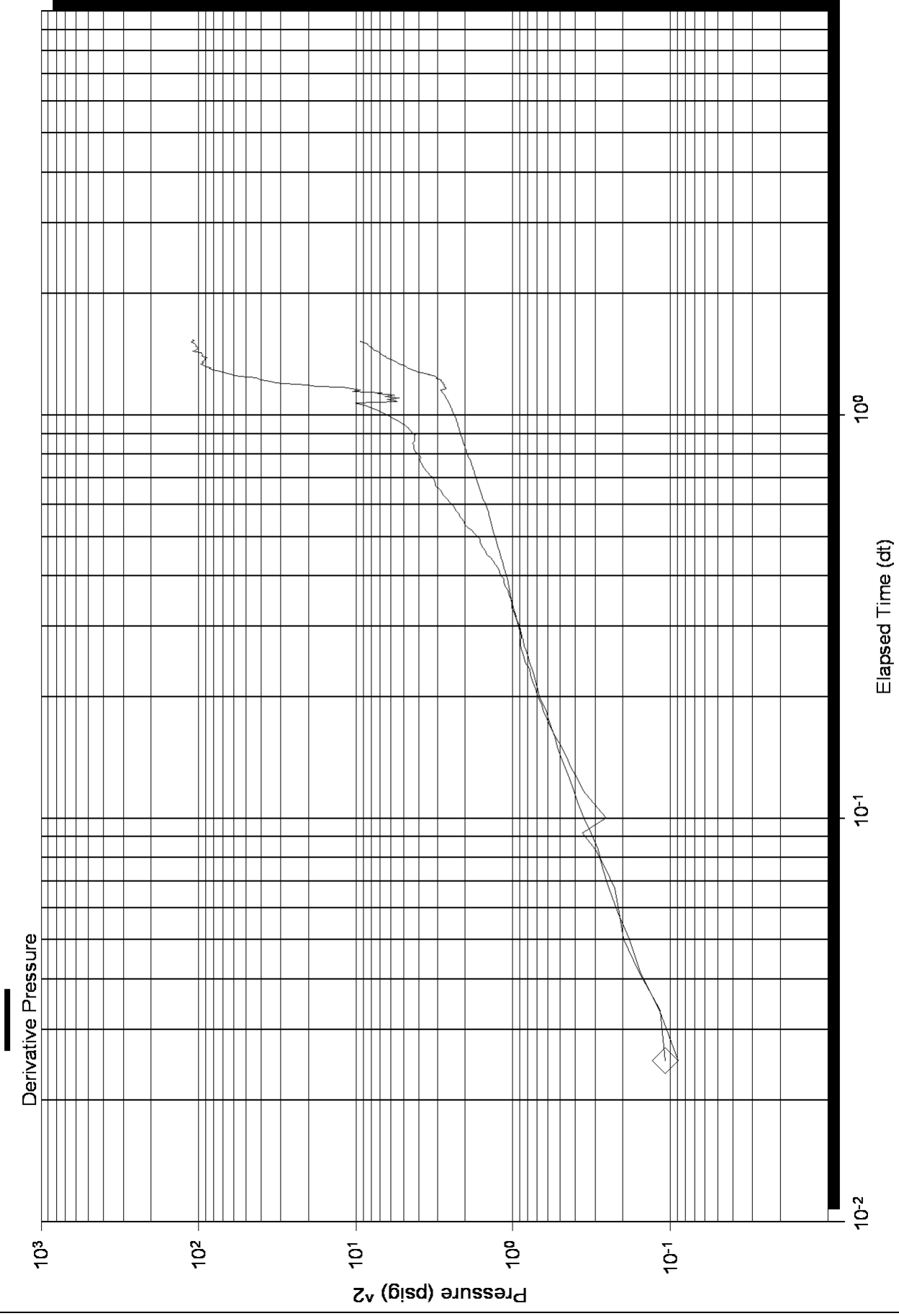
Homer Plot

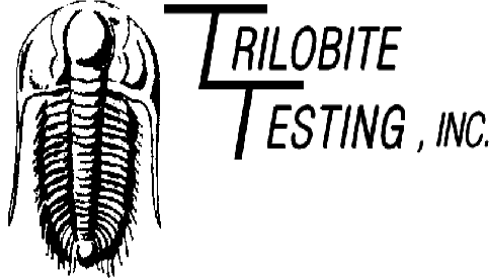


Log-Log and Pseudo-Log-Derivative



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: Neil

26/16S/16W-Rush

Maier 1-26

Start Date: 2011.05.12 @ 00:02:27

End Date: 2011.05.12 @ 08:00:57

Job Ticket #: 42883 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.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42883

DST#: 2

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:38:57

Time Test Ended: 08:00:57

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3405.00 ft (KB) To 3421.00 ft (KB) (TVD)

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3421.00 ft (KB) (TVD)

1975.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 25.97 psig @ 3408.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.12 End Date: 2011.05.12

Last Calib.: 2011.05.13

Start Time: 00:12:27 End Time: 08:00:57

Time On Btm: 2011.05.12 @ 01:37:47

Time Off Btm: 2011.05.12 @ 05:50:57

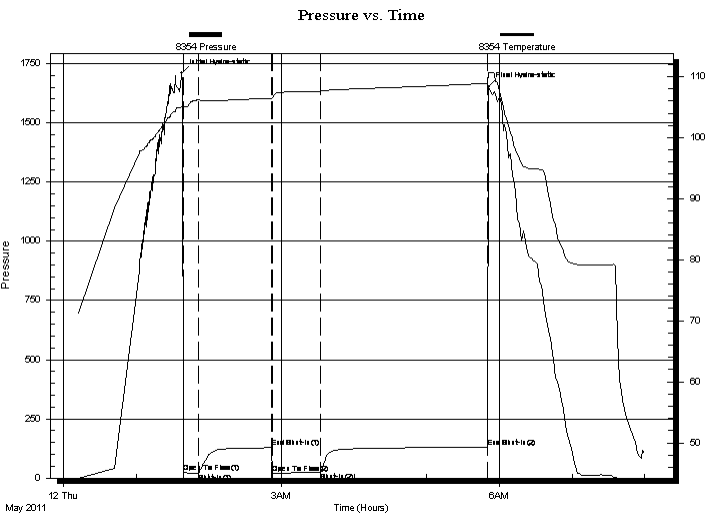
TEST COMMENT: IF-Fair building blow . Built to 8 inches.

ISI-No Return.

FF-Strong building blow . BOB in 30 seconds.

FSI-No Return.

Times- 10-60-40-135



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1709.03	105.07	Initial Hydro-static
2	23.11	104.39	Open To Flow (1)
14	20.39	106.24	Shut-In(1)
75	128.37	106.46	End Shut-In(1)
75	21.69	106.48	Open To Flow (2)
115	25.97	107.60	Shut-In(2)
253	130.19	108.89	End Shut-In(2)
254	1651.30	110.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	85%Mud/15%Oil	0.35
0.00	642' Low Odor G.I.P.	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.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42883

DST#: 2

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

Tool Information

Drill Pipe:	Length: 3383.00 ft	Diameter: 3.80 inches	Volume: 47.45 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:	5000.00 lb
			<u>Total Volume: 47.45 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3405.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	46.00 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	3375.00	
Change Over Sub	1.00			3376.00	
Shut In Tool	5.00			3381.00	
Sampler	2.00			3383.00	
Hydraulic tool	5.00			3388.00	
Jars	5.00			3393.00	
Safety Joint	3.00			3396.00	
Packer	5.00			3401.00	30.00 Bottom Of Top Packer
Packer	4.00			3405.00	
Stubb	1.00			3406.00	
Perforations	2.00			3408.00	
Recorder	0.00	8354	Inside	3408.00	
Recorder	0.00	8520	Outside	3408.00	
Perforations	10.00			3418.00	
Bullnose	3.00			3421.00	16.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42883

DST#: 2

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	85%Mud/15%Oil	0.351
0.00	642' Low Odor G.I.P.	0.000

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-1100 ML-Mud, 500 ML-Oil.

Pressure- 125#



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42883

DST#: 2

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

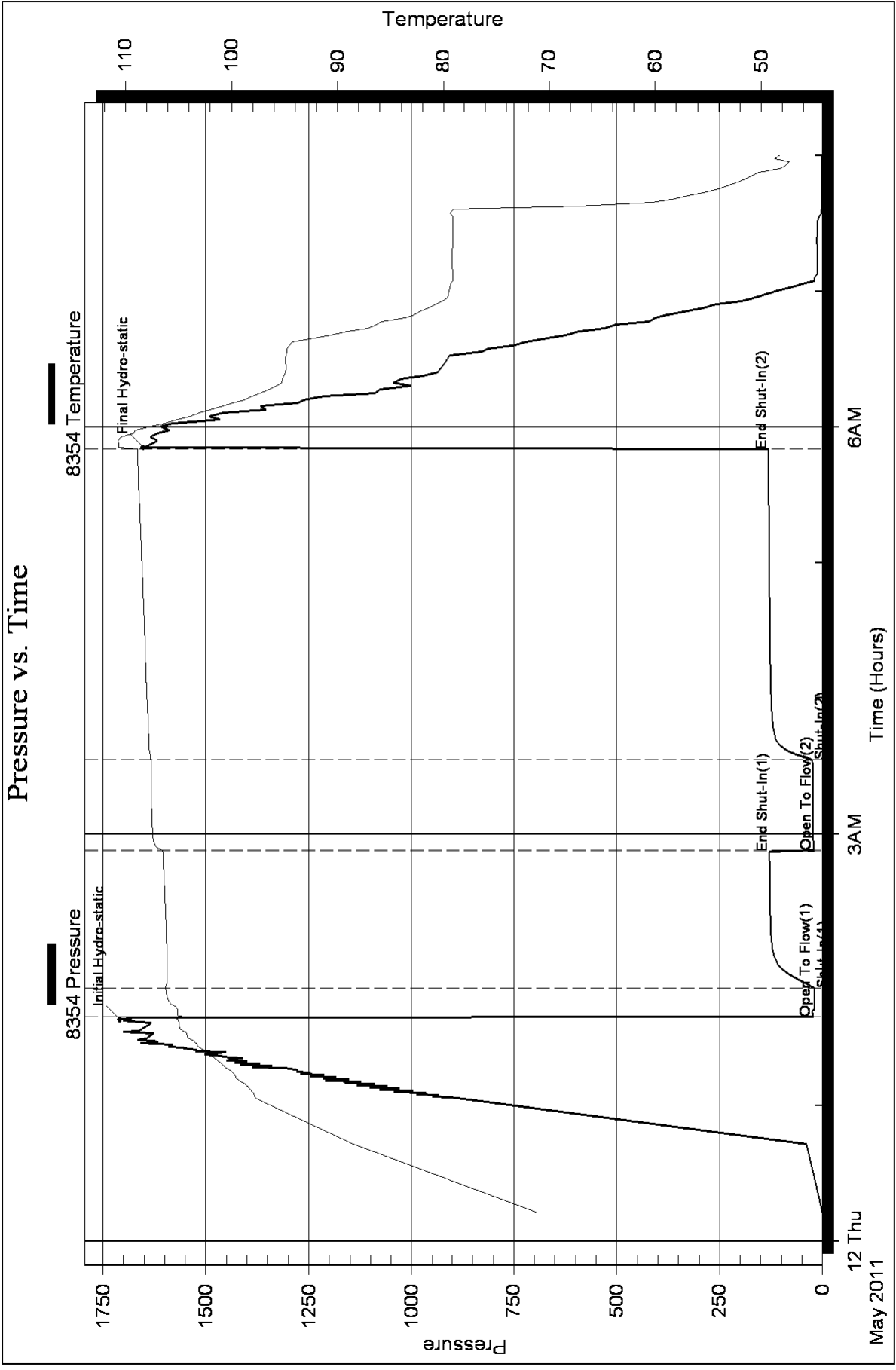
Gas Rates Information

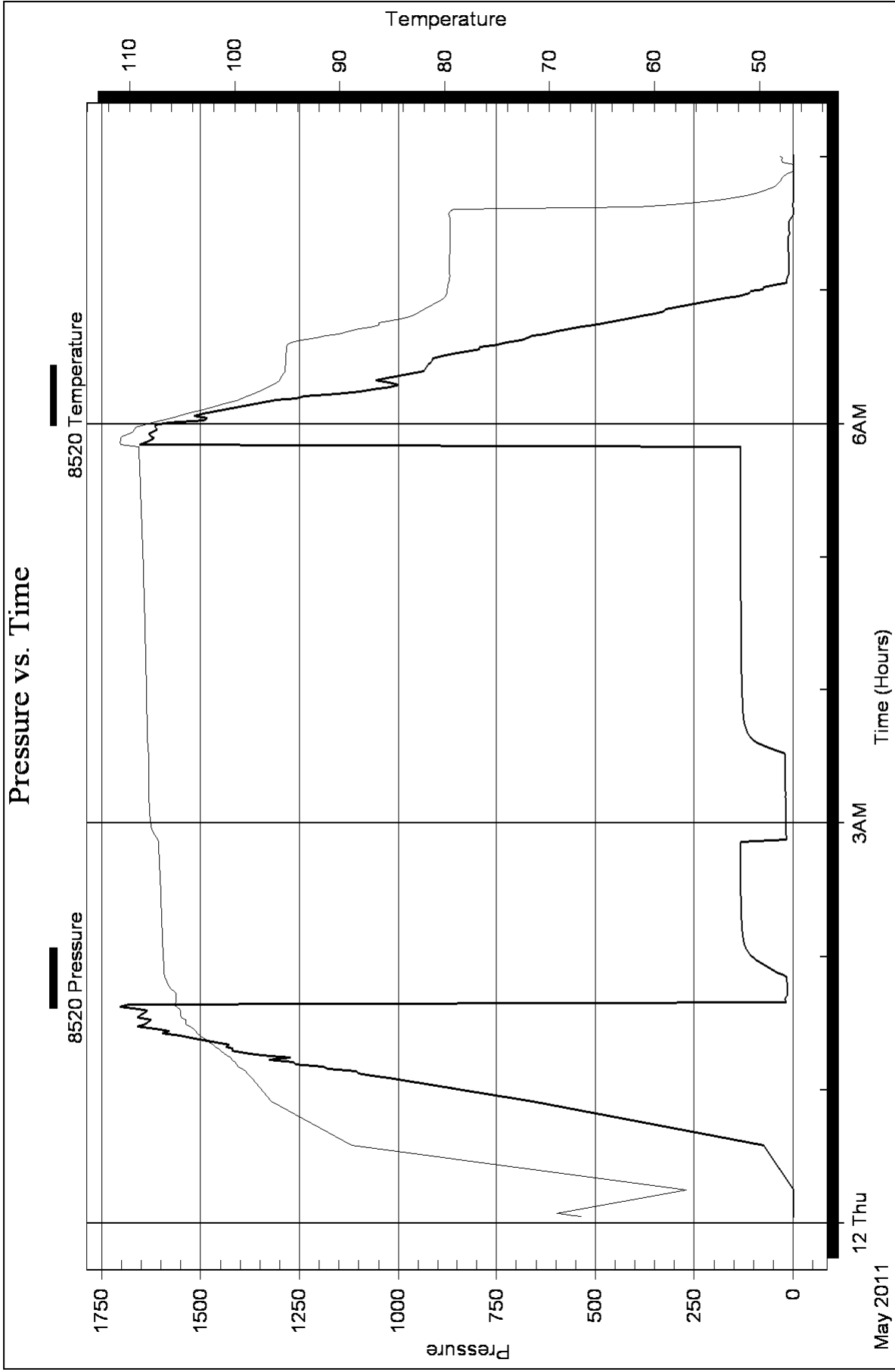
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

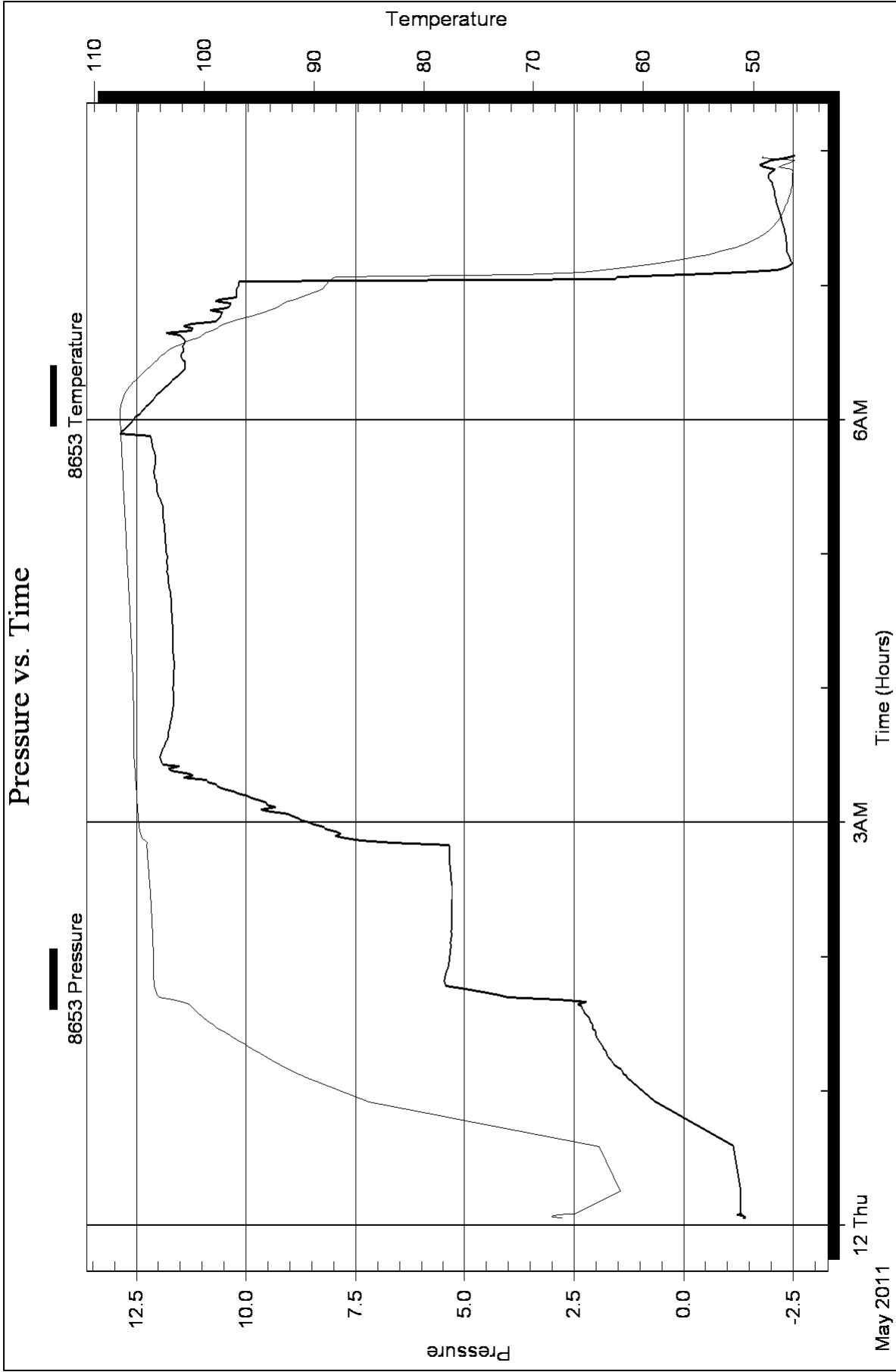
Gas Rates Table

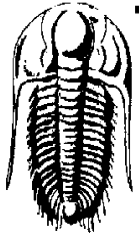
Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
		0.00	0.00	0.00

Pressure vs. Time









**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42883

DST#: 2

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	1.29	71.3		71.2	1523.78	102.5
	40.0	279.13	93.1		71.8	1597.12	102.7
	50.5	905.60	97.8		72.5	1554.81	102.9
	51.2	949.18	97.8		73.2	1590.97	103.1
	51.8	935.28	97.9		73.8	1583.50	103.2
	52.5	966.08	97.9		74.5	1689.23	103.3
	53.2	1042.42	98.1		75.2	1615.81	103.4
	53.8	997.10	98.1		75.8	1670.83	103.5
	54.5	1029.79	98.3		76.5	1646.66	103.9
	55.2	1101.28	98.4		77.2	1642.58	104.1
	55.8	1059.80	98.5		77.8	1636.67	104.2
	56.5	1090.73	98.6		78.5	1630.87	104.2
	57.2	1161.31	98.8		79.2	1626.34	104.2
	57.8	1123.20	99.2		79.8	1631.61	104.3
	58.5	1154.06	99.4		80.5	1660.18	104.7
	59.2	1214.55	99.5		81.2	1654.40	104.8
	59.8	1183.90	99.6		81.8	1647.96	104.9
	60.5	1215.74	99.7		82.5	1641.99	104.9
	61.2	1270.46	99.8		83.2	1636.41	105.0
	61.8	1229.95	99.9		83.8	1632.75	105.0
	62.5	1276.59	100.1		84.5	1680.83	105.0
	63.2	1283.14	100.2		85.0	1662.72	105.0
	63.8	1297.28	100.5		85.2	1682.94	105.0
	64.5	1339.20	100.7	Initial Hydro-static	85.3	1709.03	105.1
	65.2	1417.57	100.8		85.5	1690.06	105.1
	65.8	1369.30	101.0		85.7	1679.72	105.2
	66.5	1402.09	101.1		85.8	1680.22	105.3
	67.2	1449.70	101.4		86.2	1684.12	105.3
	67.8	1431.33	101.5		86.3	1687.15	105.4
	68.5	1468.04	101.7	Open To Flow (1)	86.5	23.11	104.4
	69.2	1461.17	101.9		86.7	23.33	104.9
	69.8	1540.25	102.0		86.8	22.70	105.1
	70.5	1492.56	102.2		87.0	22.96	105.1

Printing every 4 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	87.7	23.45	105.0		117.0	121.62	106.1
	88.3	23.64	105.1		119.0	122.84	106.1
	89.0	23.70	105.1		121.0	123.74	106.1
	89.7	18.73	105.1		123.0	124.57	106.1
	90.3	19.34	105.2		125.0	125.08	106.2
	91.0	18.51	105.2		127.0	125.52	106.2
	91.7	18.39	105.6		129.0	125.82	106.2
	92.3	18.40	105.8		131.0	126.03	106.2
	93.0	18.51	105.9		133.0	126.22	106.2
	93.7	18.60	105.9		135.0	126.51	106.2
	94.3	18.73	106.0		137.0	126.95	106.3
	95.0	18.84	106.1		139.0	127.12	106.3
	95.7	18.95	106.1		141.0	127.26	106.3
	96.3	19.08	106.1		143.0	127.41	106.3
	97.0	19.21	106.1		145.0	127.55	106.3
	97.7	19.28	106.2		147.0	127.69	106.3
	98.3	19.36	106.2		149.0	127.82	106.4
	98.8	19.56	106.2		151.0	127.98	106.4
	99.0	19.62	106.2		153.0	128.13	106.4
Shut-In(1)	99.2	20.39	106.2		155.0	128.22	106.4
	99.3	21.93	106.2		157.0	128.31	106.4
	99.5	23.63	106.2		158.5	128.35	106.5
	99.7	25.38	106.2		159.0	128.37	106.5
	100.3	32.61	106.1	End Shut-In(1)	159.5	128.37	106.5
	101.0	39.58	106.1	Open To Flow (2)	160.0	21.69	106.5
	101.7	46.41	106.1		160.5	21.91	106.7
	102.3	53.17	106.1		161.0	21.37	106.9
	103.0	60.07	106.1		163.0	21.48	107.3
	103.7	66.64	106.0		165.0	22.06	107.4
	104.3	73.05	106.0		167.0	22.16	107.4
	105.0	79.35	106.0		169.0	22.21	107.4
	105.7	84.94	106.0		171.0	22.28	107.5
	106.3	90.24	106.0		173.0	22.35	107.5
	107.0	95.03	106.0		175.0	22.41	107.5
	107.7	99.18	106.1		177.0	22.48	107.5
	108.3	102.93	106.1		179.0	22.60	107.5
	109.0	106.19	106.1		181.0	22.71	107.5
	109.7	109.01	106.1		183.0	22.84	107.6
	111.0	112.18	106.1		185.0	22.93	107.6
	113.0	116.96	106.1		187.0	23.03	107.6
	115.0	119.74	106.1		189.0	23.12	107.6

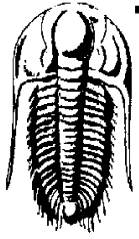
Printing every 4 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	191.0	23.21	107.6		265.5	127.82	108.3
	193.0	23.31	107.6		267.5	127.94	108.3
	195.0	23.36	107.6		269.5	128.06	108.3
	197.0	23.42	107.6		271.5	128.19	108.3
	199.0	23.52	107.6		273.5	128.30	108.3
	199.5	23.51	107.6		275.5	128.41	108.3
Shut-In(2)	200.0	25.97	107.6		277.5	128.51	108.4
	200.5	34.33	107.6		279.5	128.63	108.4
	201.0	42.52	107.6		281.5	128.74	108.4
	201.5	50.55	107.7		283.5	128.82	108.4
	203.5	78.81	107.7		285.5	128.90	108.4
	205.5	98.04	107.8		287.5	128.98	108.5
	207.5	108.26	107.8		289.5	129.07	108.5
	209.5	113.70	107.8		291.5	129.18	108.5
	211.5	116.96	107.8		293.5	129.28	108.5
	213.5	118.88	107.8		295.5	129.37	108.5
	215.5	120.31	107.9		297.5	129.46	108.5
	217.5	121.25	107.9		299.5	129.54	108.5
	219.5	122.10	107.9		301.5	129.62	108.6
	221.5	122.72	107.9		303.5	129.69	108.6
	223.5	123.26	107.9		305.5	129.73	108.6
	225.5	123.71	108.0		307.5	129.78	108.6
	227.5	124.08	108.0		309.5	129.83	108.6
	229.5	124.55	108.0		311.5	129.89	108.7
	231.5	124.83	108.0		313.5	129.97	108.7
	233.5	125.07	108.0		315.5	130.02	108.7
	235.5	125.67	108.0		317.5	130.09	108.7
	237.5	125.50	108.1		319.5	130.14	108.7
	239.5	126.04	108.1		321.5	130.18	108.8
	241.5	125.89	108.1		323.5	130.22	108.8
	243.5	126.38	108.1		325.5	130.26	108.8
	245.5	126.50	108.1		327.5	130.31	108.8
	247.5	126.65	108.1		329.5	130.36	108.8
	249.5	126.77	108.1		331.5	130.38	108.8
	251.5	126.89	108.2		333.5	130.39	108.9
	253.5	127.01	108.2		335.5	130.38	108.9
	255.5	127.12	108.2		336.5	130.36	108.9
	257.5	127.24	108.2		337.0	130.32	108.9
	259.5	127.39	108.2	End Shut-In(2)	337.5	130.19	108.9
	261.5	127.53	108.2		338.0	1560.94	110.5
	263.5	127.68	108.2	Final Hydro-static	338.5	1651.30	110.7

Printing every 4 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	339.0	1643.69	110.6		421.0	11.77	79.1
	341.0	1621.18	110.7		423.0	11.66	79.1
	343.0	1633.78	110.4		425.0	11.19	79.1
	345.0	1612.36	109.2		427.0	12.37	79.1
	347.0	1524.54	109.0		429.0	12.89	79.1
	349.0	1580.15	106.3		431.0	14.00	79.1
	351.0	1521.15	104.6		433.0	10.91	79.1
	353.0	1451.80	103.3		435.0	11.54	79.1
	355.0	1354.22	102.0		437.0	11.53	79.1
	357.0	1310.47	100.7		439.0	11.51	79.1
	359.0	1298.03	99.3		441.0	7.09	79.3
	361.0	1214.23	98.1		443.0	1.98	79.0
	363.0	1123.60	97.0		445.0	1.14	67.2
	365.0	1033.34	95.9		447.0	0.55	59.7
	367.0	1044.59	95.3		449.0	0.64	57.4
	369.0	994.56	95.1		451.0	0.73	55.5
	371.0	943.10	94.9		453.0	0.80	53.9
	373.0	930.41	94.9		455.0	0.81	52.6
	375.0	922.52	94.9		457.0	0.79	51.5
	377.0	914.86	94.9		459.0	0.73	50.7
	379.0	905.02	94.9		461.0	0.70	48.5
	381.0	844.41	94.8		463.0	0.73	47.7
	383.0	782.55	94.7		465.0	0.64	47.3
	385.0	719.95	94.3		467.0	0.62	48.4
	387.0	655.14	92.0		468.5	0.62	49.1
	389.0	593.14	89.5				
	391.0	529.77	87.2				
	393.0	472.06	85.8				
	395.0	397.64	84.2				
	397.0	376.89	82.8				
	399.0	318.27	81.8				
	401.0	254.54	81.0				
	403.0	198.77	80.2				
	405.0	169.22	79.7				
	407.0	110.41	79.4				
	409.0	79.77	79.4				
	411.0	30.59	79.2				
	413.0	18.39	79.1				
	415.0	12.64	79.1				
	417.0	12.02	79.1				
	419.0	11.75	79.1				

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42883

DST#: 2

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.13	66.9		1.6	-1.17	69.3
	0.1	-1.18	67.0		1.7	-1.16	69.3
	0.1	-1.17	67.1		1.8	-1.15	69.3
	0.2	-1.18	67.1		1.8	-1.12	69.3
	0.2	-1.21	67.2		1.9	-1.11	69.3
	0.3	-1.24	67.3		1.9	-1.09	69.3
	0.3	-1.26	67.3		2.0	-1.09	69.3
	0.3	-1.27	67.4		12.0	-1.03	56.9
	0.4	-1.25	67.5		42.0	351.06	94.0
	0.4	-1.24	67.5		62.5	1024.98	98.4
	0.5	-1.26	67.6		64.0	1028.91	98.7
	0.6	-1.27	67.7		65.5	1105.80	99.0
	0.6	-1.29	67.8		67.0	1121.75	99.5
	0.7	-1.30	67.9		68.5	1259.23	99.8
	0.7	-1.31	68.0		70.0	1214.59	100.1
	0.8	-1.31	68.1		71.5	1272.27	100.4
	0.8	-1.28	68.2		73.0	1307.19	101.0
	0.9	-1.27	68.3		74.5	1419.52	101.3
	0.9	-1.28	68.4		76.0	1400.02	101.7
	0.9	-1.27	68.5		77.5	1428.03	102.1
	1.0	-1.26	68.6		79.0	1470.76	102.4
	1.1	-1.25	68.6		80.5	1523.20	103.0
	1.1	-1.23	68.7		82.0	1553.00	103.4
	1.1	-1.20	68.8		83.5	1579.93	103.7
	1.2	-1.20	68.9		85.0	1609.50	104.0
	1.3	-1.19	68.9		86.5	1640.70	104.6
	1.3	-1.20	69.0		88.0	1627.49	104.7
	1.4	-1.21	69.1		89.5	1660.05	105.1
	1.4	-1.19	69.1		91.0	1647.46	105.2
	1.5	-1.17	69.2		92.5	1634.37	105.2
	1.5	-1.16	69.3		94.0	1697.02	105.2
	1.6	-1.16	69.3		95.5	1682.70	105.8
	1.6	-1.15	69.3		97.0	18.46	105.6

Printing every 3 samples

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	18.98	105.6		160.0	132.02	107.2
	100.0	14.57	105.6		161.5	132.05	107.2
	101.5	14.29	105.8		163.0	132.07	107.2
	103.0	14.71	106.2		164.5	132.09	107.2
	104.5	14.44	106.4		166.0	132.11	107.2
	106.0	14.98	106.5		167.5	132.12	107.3
	107.5	15.12	106.6		169.0	16.54	107.3
	109.0	29.46	106.7		170.5	16.28	107.5
	110.5	45.49	106.8		172.0	16.26	107.7
	112.0	61.00	106.8		173.5	17.08	107.8
	113.5	75.94	106.8		175.0	16.98	107.9
	115.0	89.48	106.8		176.5	17.14	108.0
	116.5	100.81	106.8		178.0	17.23	108.0
	118.0	109.52	106.8		179.5	17.67	108.1
	119.5	115.64	106.8		181.0	17.77	108.1
	121.0	119.77	106.8		182.5	17.87	108.1
	122.5	122.68	106.9		184.0	18.00	108.1
	124.0	124.59	106.9		185.5	17.77	108.1
	125.5	126.09	106.9		187.0	17.96	108.2
	127.0	127.18	106.9		188.5	18.43	108.2
	128.5	128.00	106.9		190.0	18.24	108.2
	130.0	128.70	106.9		191.5	18.69	108.2
	131.5	129.18	106.9		193.0	18.81	108.2
	133.0	129.57	106.9		194.5	18.91	108.2
	134.5	129.94	106.9		196.0	19.02	108.2
	136.0	130.22	107.0		197.5	19.13	108.2
	137.5	130.47	107.0		199.0	19.25	108.2
	139.0	131.00	107.0		200.5	19.34	108.2
	140.5	131.14	107.0		202.0	19.45	108.2
	142.0	131.26	107.0		203.5	19.51	108.2
	143.5	131.36	107.0		205.0	19.58	108.2
	145.0	131.16	107.0		206.5	19.62	108.2
	146.5	131.55	107.0		208.0	19.66	108.2
	148.0	131.62	107.1		209.5	37.87	108.2
	149.5	131.69	107.1		211.0	61.66	108.3
	151.0	131.75	107.1		212.5	82.30	108.3
	152.5	131.80	107.1		214.0	97.87	108.3
	154.0	131.85	107.1		215.5	107.91	108.3
	155.5	131.89	107.1		217.0	113.88	108.3
	157.0	131.94	107.1		218.5	117.73	108.3
	158.5	131.97	107.2		220.0	120.41	108.3

Printing every 3 samples

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	122.44	108.4		283.0	131.52	108.6
	223.0	123.59	108.4		284.5	131.53	108.6
	224.5	124.69	108.4		286.0	131.54	108.7
	226.0	125.44	108.4		287.5	131.59	108.7
	227.5	126.18	108.4		289.0	131.61	108.7
	229.0	126.76	108.4		290.5	131.63	108.7
	230.5	127.33	108.4		292.0	131.67	108.7
	232.0	127.66	108.4		293.5	131.69	108.7
	233.5	127.96	108.4		295.0	131.69	108.7
	235.0	128.23	108.4		296.5	131.70	108.7
	236.5	128.55	108.4		298.0	131.72	108.7
	238.0	128.92	108.4		299.5	131.74	108.8
	239.5	129.01	108.4		301.0	131.77	108.8
	241.0	129.22	108.4		302.5	131.80	108.8
	242.5	129.41	108.4		304.0	131.84	108.8
	244.0	129.89	108.4		305.5	131.87	108.8
	245.5	129.73	108.4		307.0	131.88	108.8
	247.0	129.86	108.4		308.5	131.90	108.8
	248.5	130.26	108.5		310.0	131.92	108.8
	250.0	130.34	108.5		311.5	131.93	108.8
	251.5	130.41	108.5		313.0	131.95	108.9
	253.0	130.48	108.5		314.5	131.97	108.9
	254.5	130.55	108.5		316.0	131.98	108.9
	256.0	130.65	108.5		317.5	131.98	108.9
	257.5	130.73	108.5		319.0	132.00	108.9
	259.0	130.80	108.5		320.5	131.99	108.9
	260.5	130.86	108.5		322.0	132.00	108.9
	262.0	130.93	108.5		323.5	132.02	108.9
	263.5	130.96	108.5		325.0	132.04	108.9
	265.0	131.02	108.5		326.5	132.05	109.0
	266.5	131.07	108.5		328.0	132.08	109.0
	268.0	131.13	108.5		329.5	132.10	109.0
	269.5	131.19	108.6		331.0	132.11	109.0
	271.0	131.23	108.6		332.5	132.12	109.0
	272.5	131.25	108.6		334.0	132.13	109.0
	274.0	131.29	108.6		335.5	132.13	109.0
	275.5	131.33	108.6		337.0	132.15	109.0
	277.0	131.37	108.6		338.5	132.17	109.1
	278.5	131.40	108.6		340.0	132.17	109.1
	280.0	131.44	108.6		341.5	132.18	109.1
	281.5	131.47	108.6		343.0	132.18	109.1

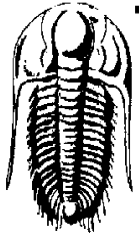
Printing every 3 samples

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	132.16	109.1		406.0	381.79	83.0
	346.0	132.13	109.1		407.5	328.15	82.4
	347.5	1654.83	110.9		409.0	282.03	81.8
	349.0	1631.08	110.9		410.5	259.90	81.1
	350.5	1617.92	110.8		412.0	199.01	80.6
	352.0	1658.24	110.3		413.5	168.46	80.1
	353.5	1621.74	109.7		415.0	137.77	79.9
	355.0	1549.22	109.5		416.5	107.14	79.8
	356.5	1616.38	108.6		418.0	76.25	79.8
	358.0	1584.73	107.3		419.5	45.76	79.7
	359.5	1484.02	106.1		421.0	15.31	79.6
	361.0	1495.13	104.9		422.5	15.18	79.5
	362.5	1462.48	103.6		424.0	9.66	79.5
	364.0	1357.28	102.6		425.5	9.10	79.6
	365.5	1370.99	101.2		427.0	9.07	79.6
	367.0	1267.77	100.3		428.5	9.06	79.6
	368.5	1258.27	99.3		430.0	9.04	79.6
	370.0	1217.25	98.5		431.5	9.05	79.5
	371.5	1098.17	97.7		433.0	9.05	79.5
	373.0	1081.19	97.0		434.5	12.45	79.5
	374.5	999.68	96.3		436.0	12.38	79.5
	376.0	1047.96	95.8		437.5	12.35	79.5
	377.5	1028.23	95.6		439.0	12.37	79.5
	379.0	974.23	95.4		440.5	12.23	79.5
	380.5	936.74	95.2		442.0	8.38	79.5
	382.0	930.04	95.2		443.5	9.27	79.5
	383.5	923.73	95.2		445.0	9.25	79.5
	385.0	917.75	95.2		446.5	9.23	79.5
	386.5	912.55	95.2		448.0	9.24	79.5
	388.0	905.65	95.2		449.5	6.13	79.5
	389.5	826.93	95.1		451.0	-0.60	79.8
	391.0	812.90	95.1		452.5	-0.80	79.5
	392.5	745.77	95.0		454.0	-0.09	67.3
	394.0	719.99	94.2		455.5	-0.58	58.4
	395.5	671.24	92.3		457.0	-0.73	54.9
	397.0	628.11	90.7		458.5	-0.79	52.5
	398.5	596.05	89.1		460.0	-0.81	50.8
	400.0	535.23	87.7		461.5	-0.80	49.7
	401.5	504.10	86.2		463.0	-0.81	48.9
	403.0	429.80	86.1		464.5	-0.84	48.4
	404.5	412.43	83.9		466.0	-0.84	48.1

Printing every 3 samples

Serial # 8520 Outside				Serial # 8653 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	467.5	-0.88	47.9				
	469.0	-0.90	47.6				
	470.5	-0.85	46.8				
	472.0	-0.76	46.7				
	473.5	-0.93	46.8				
	475.0	-0.85	47.9				
	476.5	-0.68	47.8				
	477.5	-0.82	48.1				

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42883

DST#: 2

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

Serial # 8653 Fluid				Serial # 8653 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.35	67.4		1.6	-1.25	67.2
	0.1	-1.42	67.5		1.7	-1.29	67.1
	0.1	-1.38	67.6		1.8	-1.29	67.0
	0.2	-1.37	67.6		1.8	-1.32	66.8
	0.2	-1.35	67.7		1.9	-1.31	66.7
	0.3	-1.37	67.8		1.9	-1.30	66.5
	0.3	-1.38	67.8		2.0	-1.29	66.4
	0.3	-1.38	67.9		12.0	-1.31	62.1
	0.4	-1.40	68.0		42.0	0.44	76.7
	0.4	-1.42	68.0		62.5	1.29	90.7
	0.5	-1.41	68.1		64.0	1.35	91.3
	0.6	-1.40	68.2		65.5	1.39	91.9
	0.6	-1.39	68.2		67.0	1.47	92.5
	0.7	-1.39	68.3		68.5	1.57	93.1
	0.7	-1.38	68.2		70.0	1.63	93.7
	0.8	-1.37	68.3		71.5	1.70	94.2
	0.8	-1.38	68.3		73.0	1.74	94.7
	0.9	-1.38	68.3		74.5	1.78	95.3
	0.9	-1.36	68.2		76.0	1.83	95.8
	0.9	-1.35	68.2		77.5	1.88	96.3
	1.0	-1.34	68.2		79.0	1.93	96.9
	1.1	-1.32	68.2		80.5	1.97	97.4
	1.1	-1.31	68.2		82.0	2.00	97.8
	1.1	-1.29	68.1		83.5	2.02	98.4
	1.2	-1.29	68.1		85.0	2.06	98.8
	1.3	-1.29	68.0		86.5	2.09	99.3
	1.3	-1.28	67.9		88.0	2.12	99.7
	1.4	-1.27	67.9		89.5	2.15	100.1
	1.4	-1.25	67.8		91.0	2.24	100.4
	1.5	-1.23	67.7		92.5	2.27	100.8
	1.5	-1.22	67.6		94.0	2.32	101.1
	1.6	-1.23	67.5		95.5	2.41	101.4
	1.6	-1.25	67.4		97.0	2.74	102.6

Printing every 3 samples

Serial # 8653				Serial # 8653			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	4.00	104.1		160.0	5.36	105.2
	100.0	4.35	104.3		161.5	5.35	105.2
	101.5	4.79	104.4		163.0	5.36	105.2
	103.0	5.42	104.5		164.5	5.34	105.2
	104.5	5.45	104.6		166.0	5.36	105.2
	106.0	5.47	104.6		167.5	6.67	105.2
	107.5	5.45	104.7		169.0	7.57	105.6
	109.0	5.44	104.7		170.5	7.97	105.8
	110.5	5.42	104.7		172.0	8.28	105.8
	112.0	5.41	104.7		173.5	8.18	105.9
	113.5	5.38	104.7		175.0	8.30	105.9
	115.0	5.36	104.7		176.5	8.56	106.0
	116.5	5.34	104.7		178.0	8.72	106.0
	118.0	5.34	104.7		179.5	8.93	106.0
	119.5	5.33	104.7		181.0	9.12	106.1
	121.0	5.33	104.7		182.5	9.65	106.1
	122.5	5.33	104.7		184.0	9.36	106.1
	124.0	5.32	104.7		185.5	9.54	106.1
	125.5	5.32	104.7		187.0	9.78	106.1
	127.0	5.30	104.7		188.5	9.97	106.2
	128.5	5.31	104.7		190.0	10.19	106.2
	130.0	5.30	104.7		191.5	10.50	106.2
	131.5	5.31	104.8		193.0	10.70	106.2
	133.0	5.31	104.8		194.5	10.87	106.2
	134.5	5.31	104.8		196.0	10.94	106.3
	136.0	5.30	104.8		197.5	11.21	106.3
	137.5	5.31	104.8		199.0	11.65	106.3
	139.0	5.30	104.9		200.5	11.77	106.3
	140.5	5.31	104.9		202.0	11.87	106.4
	142.0	5.30	104.9		203.5	11.93	106.4
	143.5	5.29	104.9		205.0	11.95	106.4
	145.0	5.29	104.9		206.5	11.95	106.4
	146.5	5.29	105.0		208.0	11.93	106.4
	148.0	5.30	105.0		209.5	11.90	106.4
	149.5	5.31	105.0		211.0	11.87	106.4
	151.0	5.32	105.0		212.5	11.83	106.4
	152.5	5.32	105.0		214.0	11.79	106.4
	154.0	5.32	105.1		215.5	11.78	106.4
	155.5	5.32	105.1		217.0	11.76	106.4
	157.0	5.34	105.1		218.5	11.75	106.4
	158.5	5.35	105.1		220.0	11.73	106.4

Printing every 3 samples

Serial # 8653				Serial # 8653			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	11.72	106.4		283.0	11.75	106.9
	223.0	11.71	106.4		284.5	11.77	106.9
	224.5	11.69	106.4		286.0	11.77	106.9
	226.0	11.68	106.4		287.5	11.78	107.0
	227.5	11.66	106.4		289.0	11.79	107.0
	229.0	11.65	106.5		290.5	11.78	107.0
	230.5	11.64	106.5		292.0	11.79	107.0
	232.0	11.64	106.5		293.5	11.79	107.0
	233.5	11.65	106.5		295.0	11.79	107.0
	235.0	11.65	106.5		296.5	11.80	107.1
	236.5	11.66	106.5		298.0	11.82	107.1
	238.0	11.65	106.5		299.5	11.81	107.1
	239.5	11.65	106.5		301.0	11.82	107.1
	241.0	11.64	106.5		302.5	11.83	107.1
	242.5	11.64	106.5		304.0	11.83	107.1
	244.0	11.64	106.5		305.5	11.83	107.2
	245.5	11.64	106.6		307.0	11.85	107.2
	247.0	11.63	106.6		308.5	11.86	107.2
	248.5	11.63	106.6		310.0	11.86	107.2
	250.0	11.65	106.6		311.5	11.88	107.2
	251.5	11.65	106.6		313.0	11.89	107.2
	253.0	11.66	106.6		314.5	11.88	107.2
	254.5	11.66	106.6		316.0	11.88	107.3
	256.0	11.66	106.6		317.5	11.89	107.3
	257.5	11.67	106.7		319.0	11.91	107.3
	259.0	11.67	106.7		320.5	11.94	107.3
	260.5	11.66	106.7		322.0	11.98	107.3
	262.0	11.67	106.7		323.5	12.00	107.3
	263.5	11.66	106.7		325.0	12.02	107.4
	265.0	11.67	106.7		326.5	12.02	107.4
	266.5	11.67	106.7		328.0	12.04	107.4
	268.0	11.68	106.8		329.5	12.05	107.4
	269.5	11.69	106.8		331.0	12.07	107.4
	271.0	11.69	106.8		332.5	12.09	107.4
	272.5	11.70	106.8		334.0	12.10	107.4
	274.0	11.70	106.8		335.5	12.07	107.5
	275.5	11.71	106.8		337.0	12.06	107.5
	277.0	11.71	106.9		338.5	12.06	107.5
	278.5	11.72	106.9		340.0	12.06	107.5
	280.0	11.72	106.9		341.5	12.08	107.5
	281.5	11.75	106.9		343.0	12.11	107.5

Printing every 3 samples

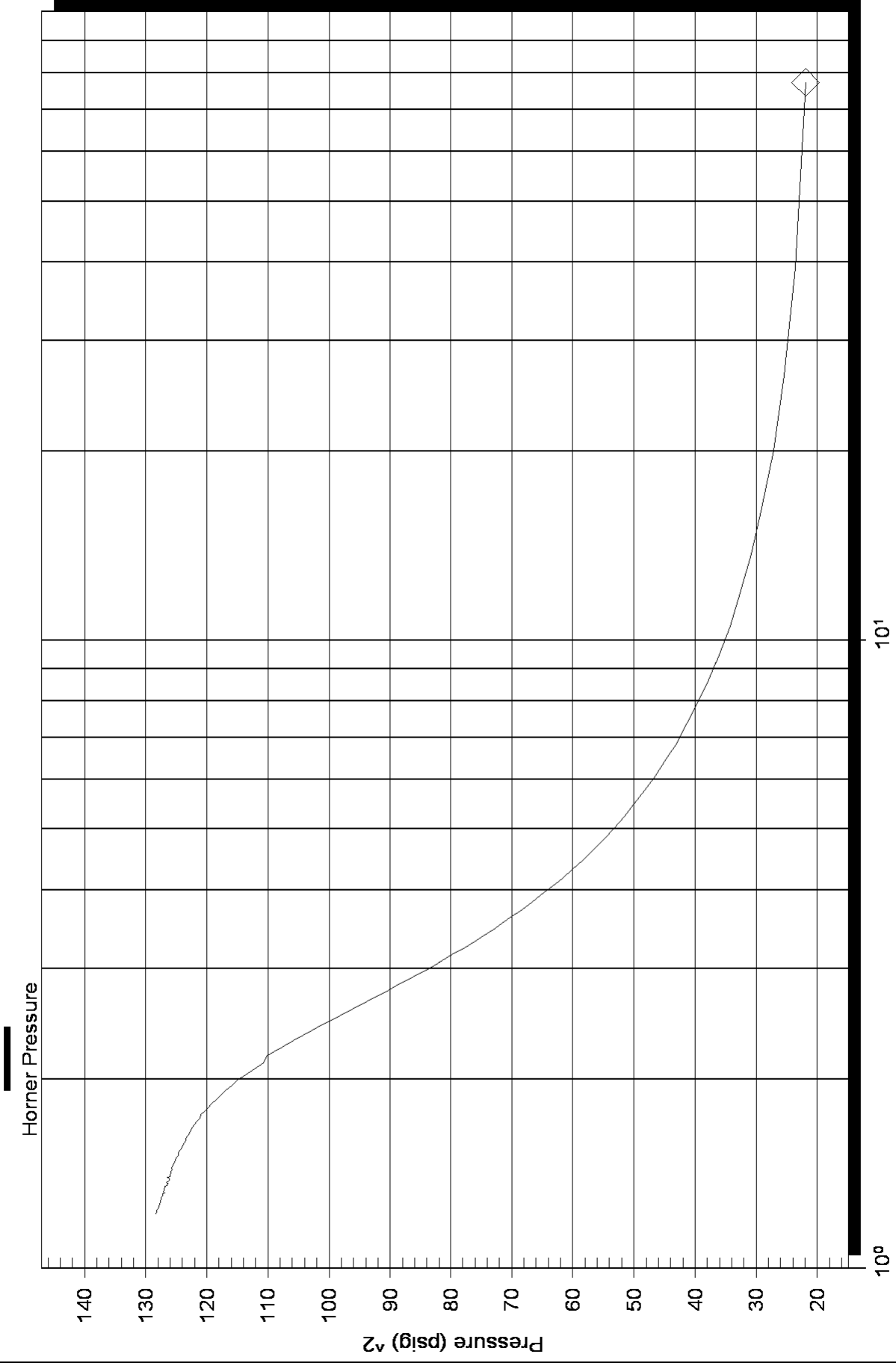
Serial # 8653				Serial # 8653			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	12.12	107.5		406.0	10.47	93.9
	346.0	12.14	107.6		407.5	10.38	93.2
	347.5	12.14	107.6		409.0	10.33	92.7
	349.0	12.16	107.6		410.5	10.60	91.8
	350.5	12.87	107.6		412.0	10.23	90.9
	352.0	12.80	107.6		413.5	10.20	90.2
	353.5	12.71	107.6		415.0	10.20	89.3
	355.0	12.64	107.6		416.5	10.18	89.0
	356.5	12.57	107.6		418.0	10.17	88.8
	358.0	12.52	107.7		419.5	1.57	88.5
	359.5	12.43	107.7		421.0	0.69	84.4
	361.0	12.35	107.7		422.5	-1.29	65.5
	362.5	12.28	107.6		424.0	-2.25	62.8
	364.0	12.21	107.6		425.5	-2.42	60.2
	365.5	12.13	107.5		427.0	-2.47	58.0
	367.0	12.09	107.4		428.5	-2.44	56.1
	368.5	12.01	107.2		430.0	-2.41	54.5
	370.0	11.91	107.1		431.5	-2.36	53.2
	371.5	11.83	106.8		433.0	-2.35	52.1
	373.0	11.74	106.6		434.5	-2.35	51.2
	374.5	11.67	106.3		436.0	-2.35	50.4
	376.0	11.58	105.9		437.5	-2.35	49.8
	377.5	11.49	105.6		439.0	-2.33	49.2
	379.0	11.41	105.3		440.5	-2.31	48.8
	380.5	11.41	104.9		442.0	-2.29	48.4
	382.0	11.39	104.6		443.5	-2.28	48.1
	383.5	11.44	104.3		445.0	-2.25	47.9
	385.0	11.48	104.0		446.5	-2.23	47.6
	386.5	11.46	103.6		448.0	-2.21	47.4
	388.0	11.43	103.3		449.5	-2.19	47.3
	389.5	11.46	102.7		451.0	-2.15	47.2
	391.0	11.40	101.9		452.5	-2.14	47.0
	392.5	11.41	101.2		454.0	-2.12	46.9
	394.0	11.48	100.5		455.5	-2.10	46.8
	395.5	11.81	100.0		457.0	-2.09	46.7
	397.0	11.24	99.2		458.5	-2.08	46.6
	398.5	11.43	98.7		460.0	-2.05	46.5
	400.0	10.73	97.9		461.5	-2.03	46.5
	401.5	10.65	96.9		463.0	-2.01	46.5
	403.0	10.60	95.6		464.5	-1.95	46.4
	404.5	10.55	94.6		466.0	-1.92	46.4

Printing every 3 samples

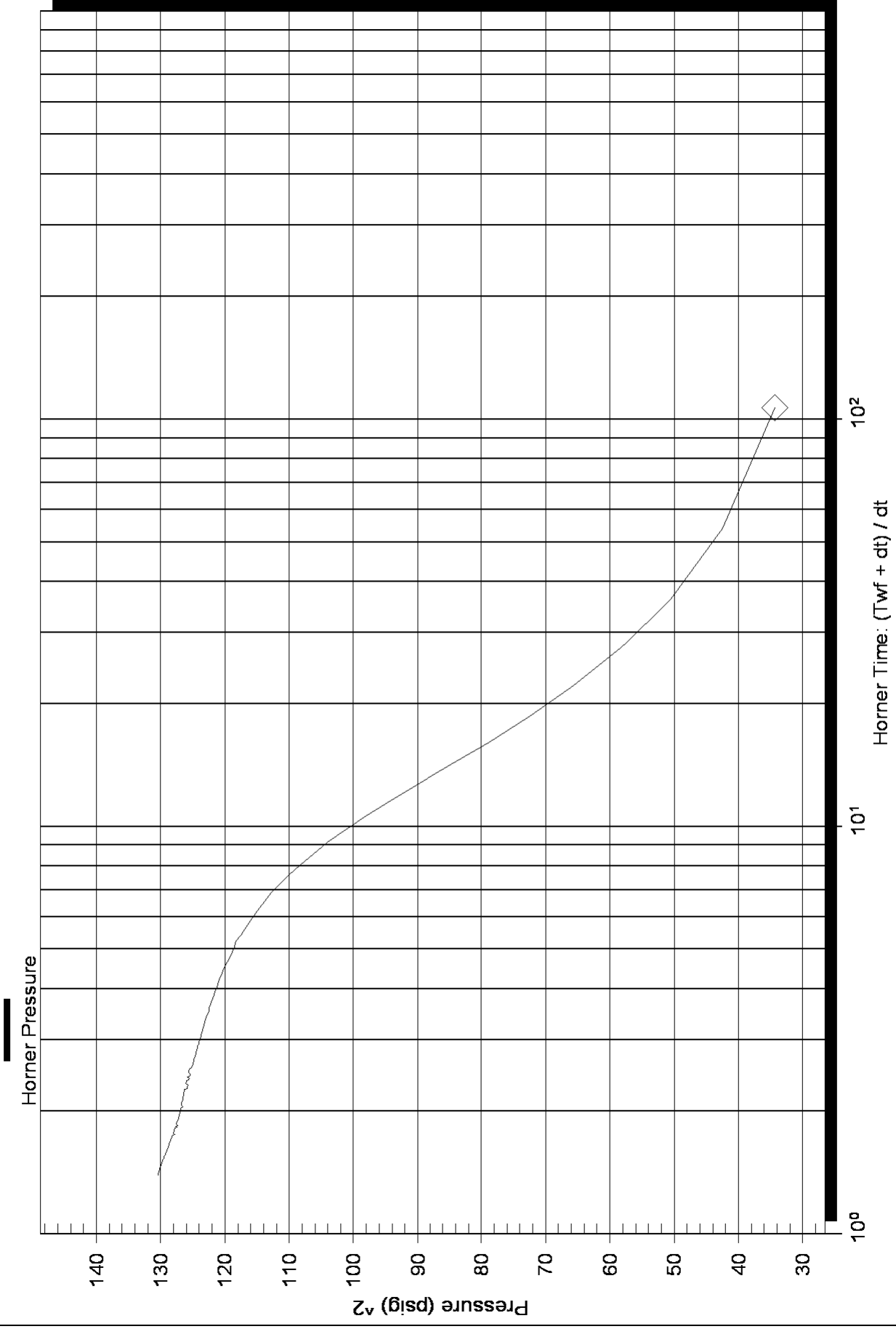
Serial # 8653		Fluid	
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	467.5	-2.01	46.4
	469.0	-1.98	46.3
	470.5	-1.74	47.2
	472.0	-1.93	46.3
	473.5	-2.34	49.2
	475.0	-2.49	48.8

Printing every 3 samples

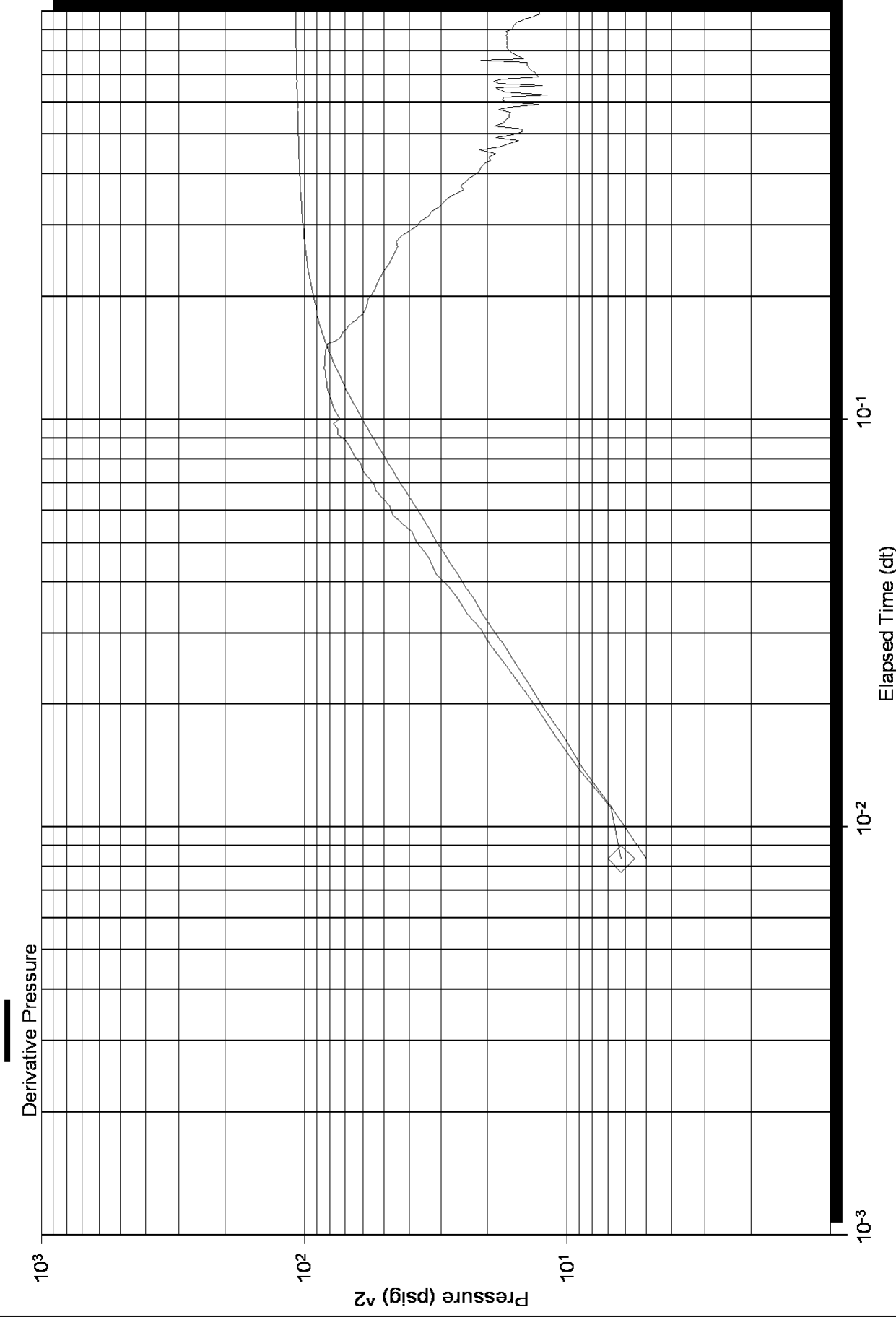
Homer Plot



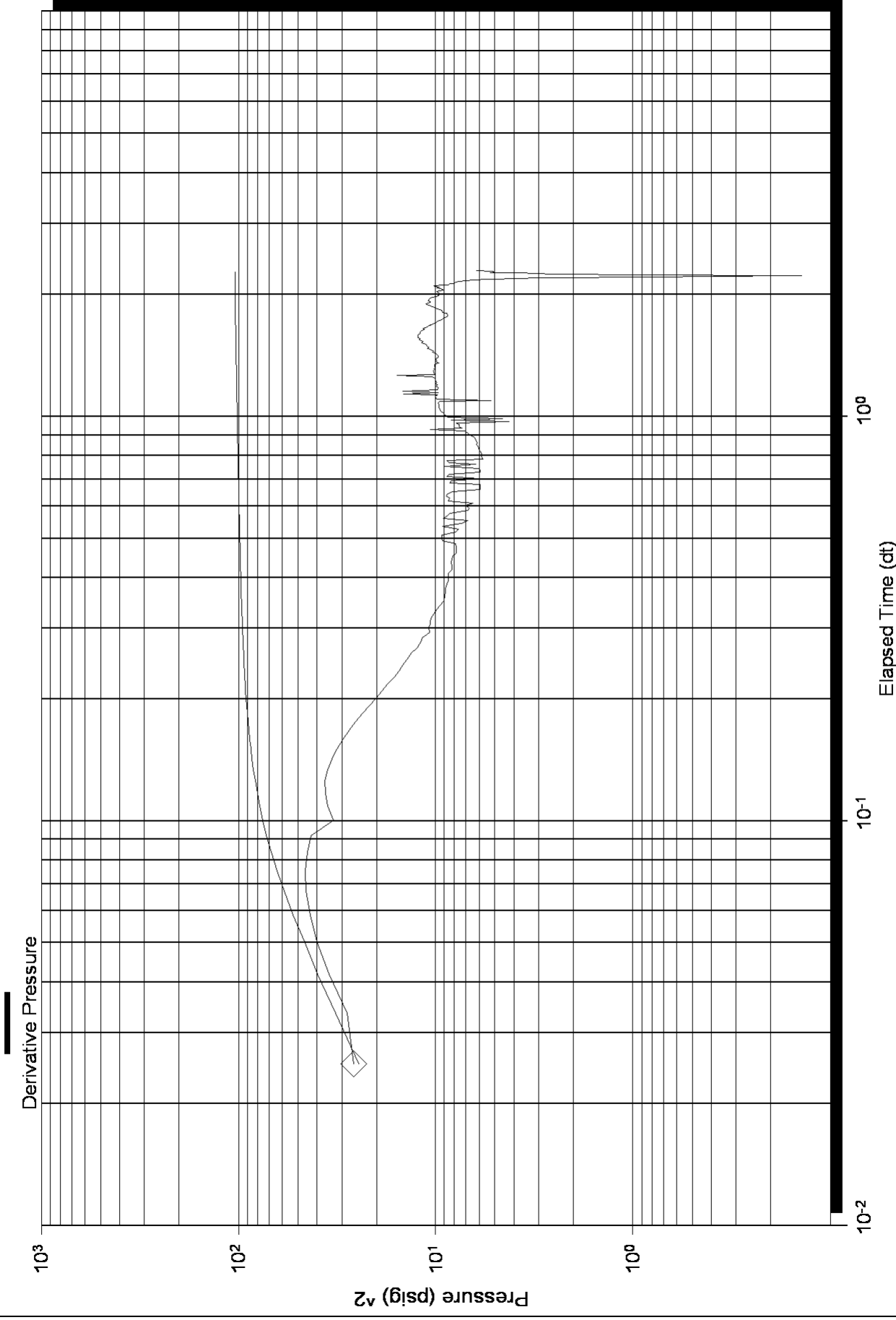
Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Neil

26/16S/16W-Rush

Maier 1-26

Start Date: 2011.05.13 @ 17:38:27

End Date: 2011.05.14 @ 01:10:27

Job Ticket #: 42884 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.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42884

DST#: 3

ATTN: Neil

Test Start: 2011.05.13 @ 17:38:27

GENERAL INFORMATION:

Formation: **LKC "I&J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:53:47

Time Test Ended: 01:10:27

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3424.00 ft (KB) To 3455.00 ft (KB) (TVD)

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3455.00 ft (KB) (TVD)

1975.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 32.92 psig @ 3427.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.13

End Date:

2011.05.14

Last Calib.: 2011.05.14

Start Time: 17:48:27

End Time:

01:10:27

Time On Btm: 2011.05.13 @ 18:52:27

Time Off Btm: 2011.05.13 @ 23:08:57

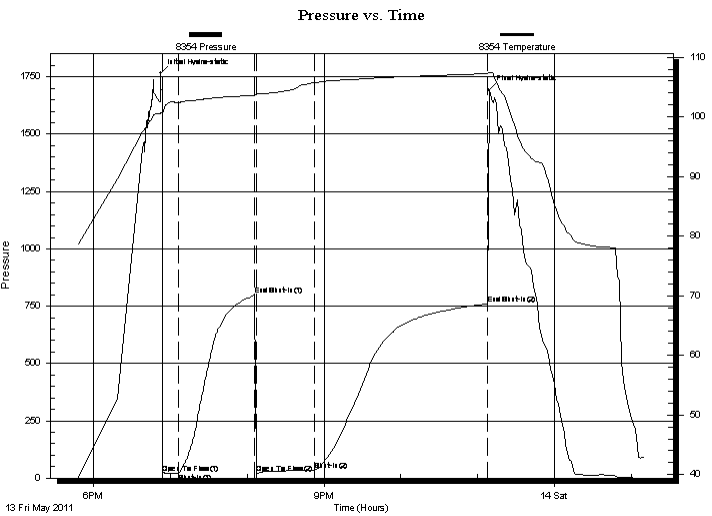
TEST COMMENT: IF-Fair building blow . Built to 8 inches.

ISI-No Return.

FF-Fair building blow . BOB in 14 minutes 40 seconds.

FSI-No Return.

Times- 10-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.37	100.64	Initial Hydro-static
2	22.68	100.03	Open To Flow (1)
14	22.92	102.41	Shut-In(1)
74	796.75	103.60	End Shut-In(1)
75	23.14	103.74	Open To Flow (2)
121	32.92	105.71	Shut-In(2)
256	759.75	107.27	End Shut-In(2)
257	1692.65	107.45	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
45.00	75%Mud/15%Gas/10%Oil	0.63
0.00	330' G.I.P.	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42884

DST#: 3

ATTN: Neil

Test Start: 2011.05.13 @ 17:38:27

Tool Information

Drill Pipe:	Length: 3410.00 ft	Diameter: 3.80 inches	Volume: 47.83 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: 47.83 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3424.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	31.00 ft				
Tool Length:	61.00 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	3394.00	
Change Over Sub	1.00			3395.00	
Shut In Tool	5.00			3400.00	
Sampler	2.00			3402.00	
Hydraulic tool	5.00			3407.00	
Jars	5.00			3412.00	
Safety Joint	3.00			3415.00	
Packer	5.00			3420.00	30.00 Bottom Of Top Packer
Packer	4.00			3424.00	
Stubb	1.00			3425.00	
Perforations	2.00			3427.00	
Recorder	0.00	8354	Inside	3427.00	
Recorder	0.00	8520	Outside	3427.00	
Perforations	25.00			3452.00	
Bullnose	3.00			3455.00	31.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42884

DST#: 3

ATTN: Neil

Test Start: 2011.05.13 @ 17:38:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	75%Mud/15%Gas/10%Oil	0.631
0.00	330' G.I.P.	0.000

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-1.5 cubic feet gas. 1800 ML Oil.
500# Pressure. 41 Gravity.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42884

DST#: 3

ATTN: Neil

Test Start: 2011.05.13 @ 17:38:27

Gas Rates Information

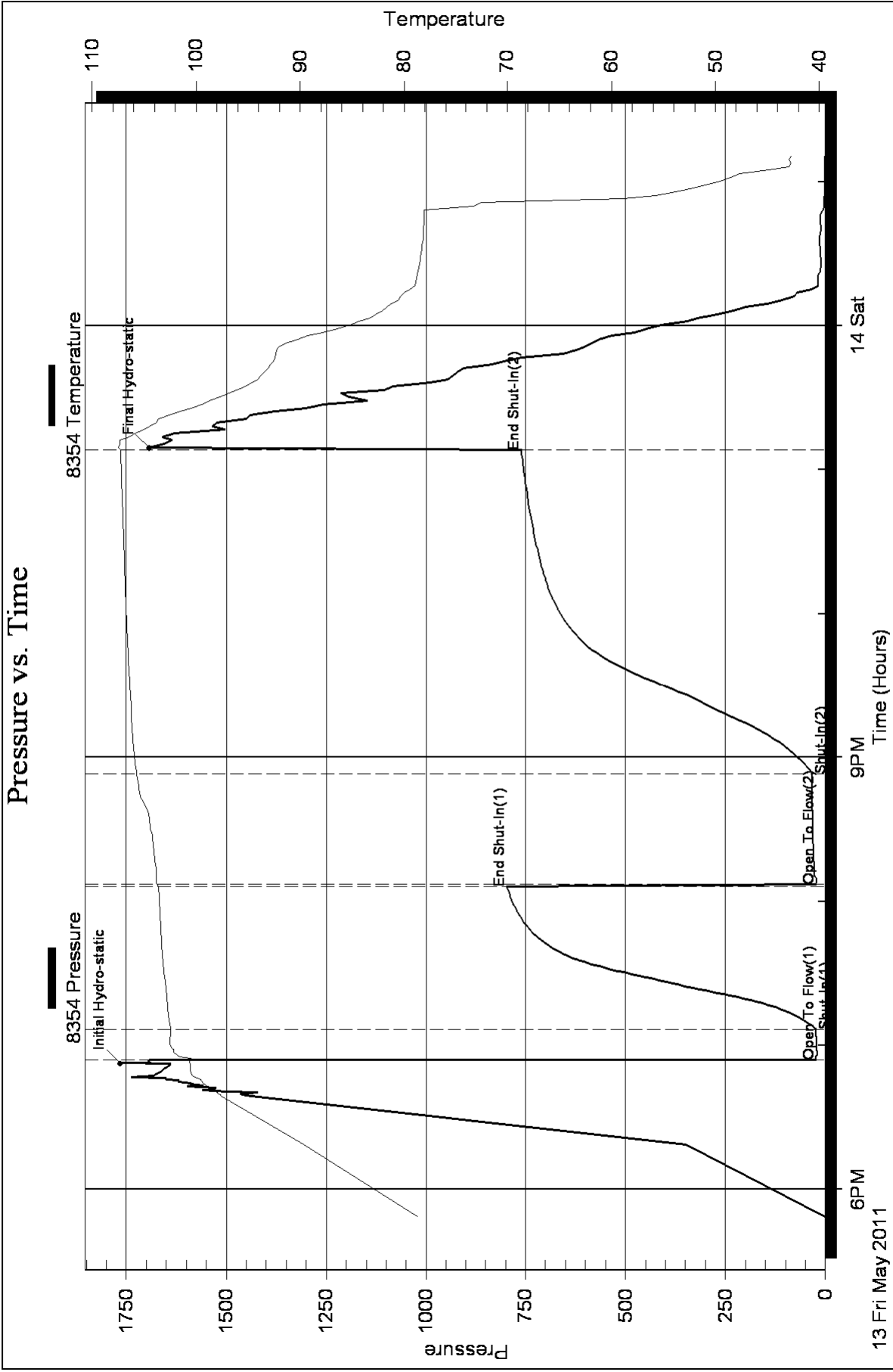
Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

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



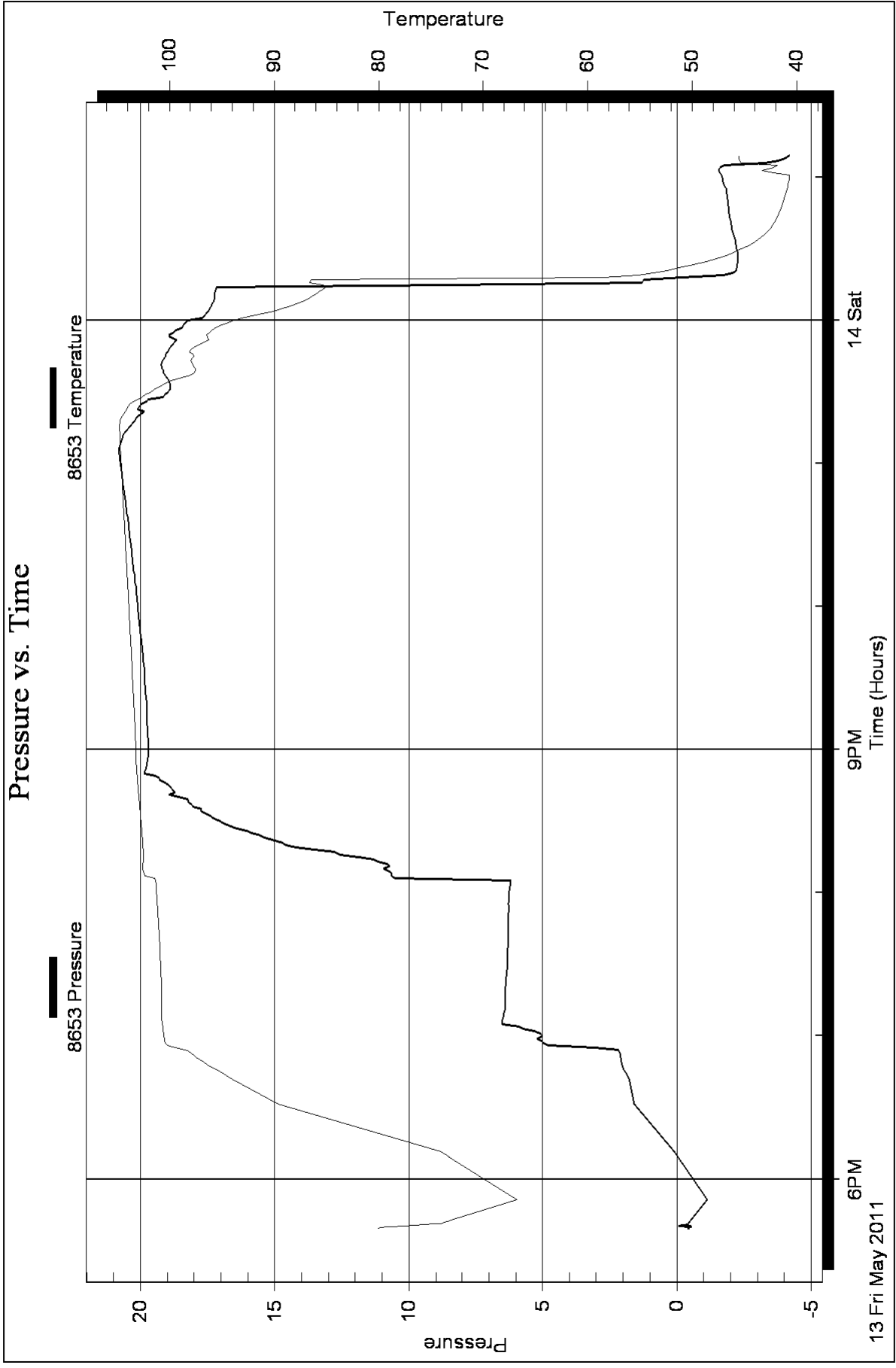
Serial #: 8653

Fluid

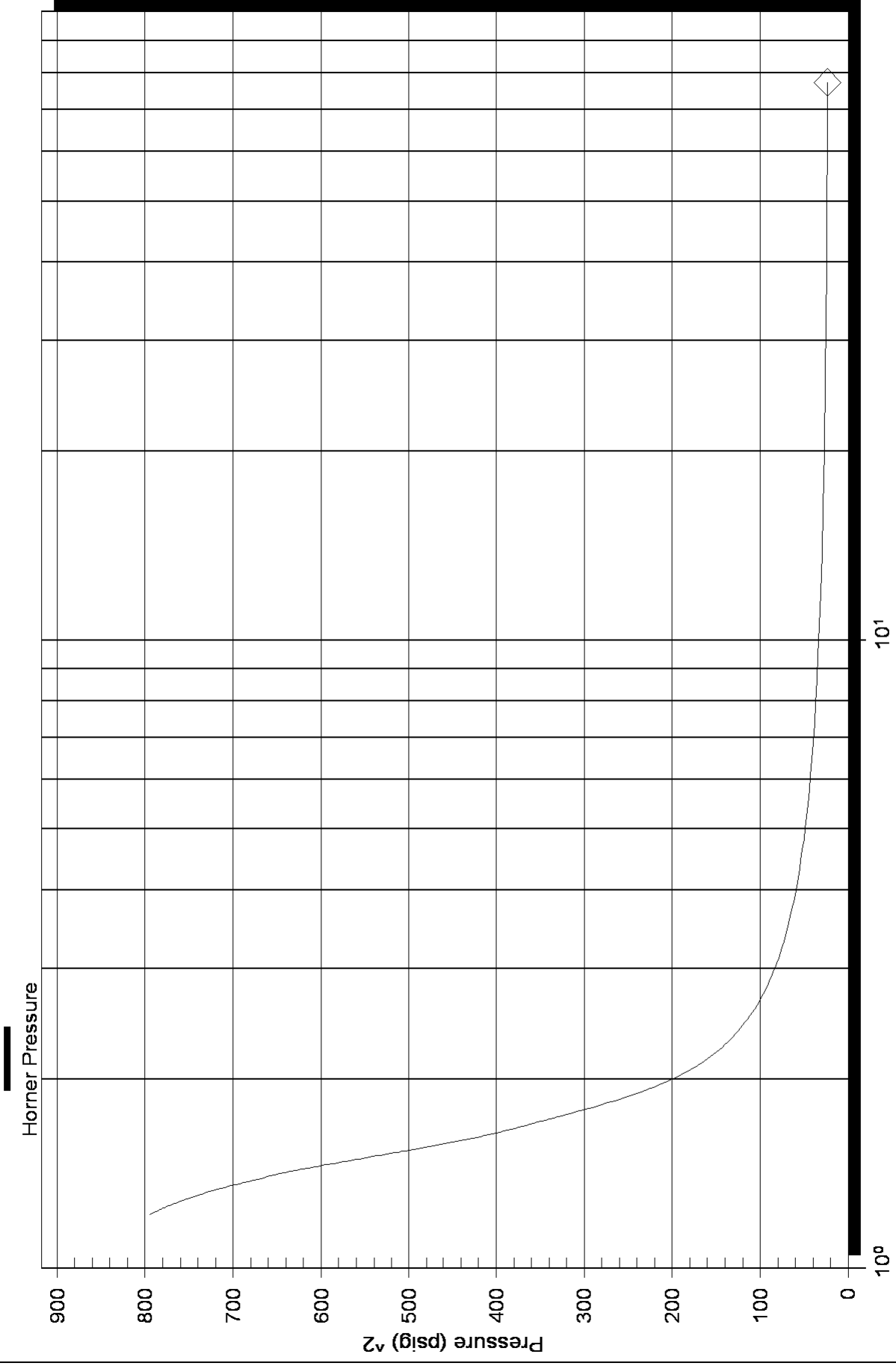
Samuel Gary Jr. & Associates Inc.

26/16S/16W-Rush

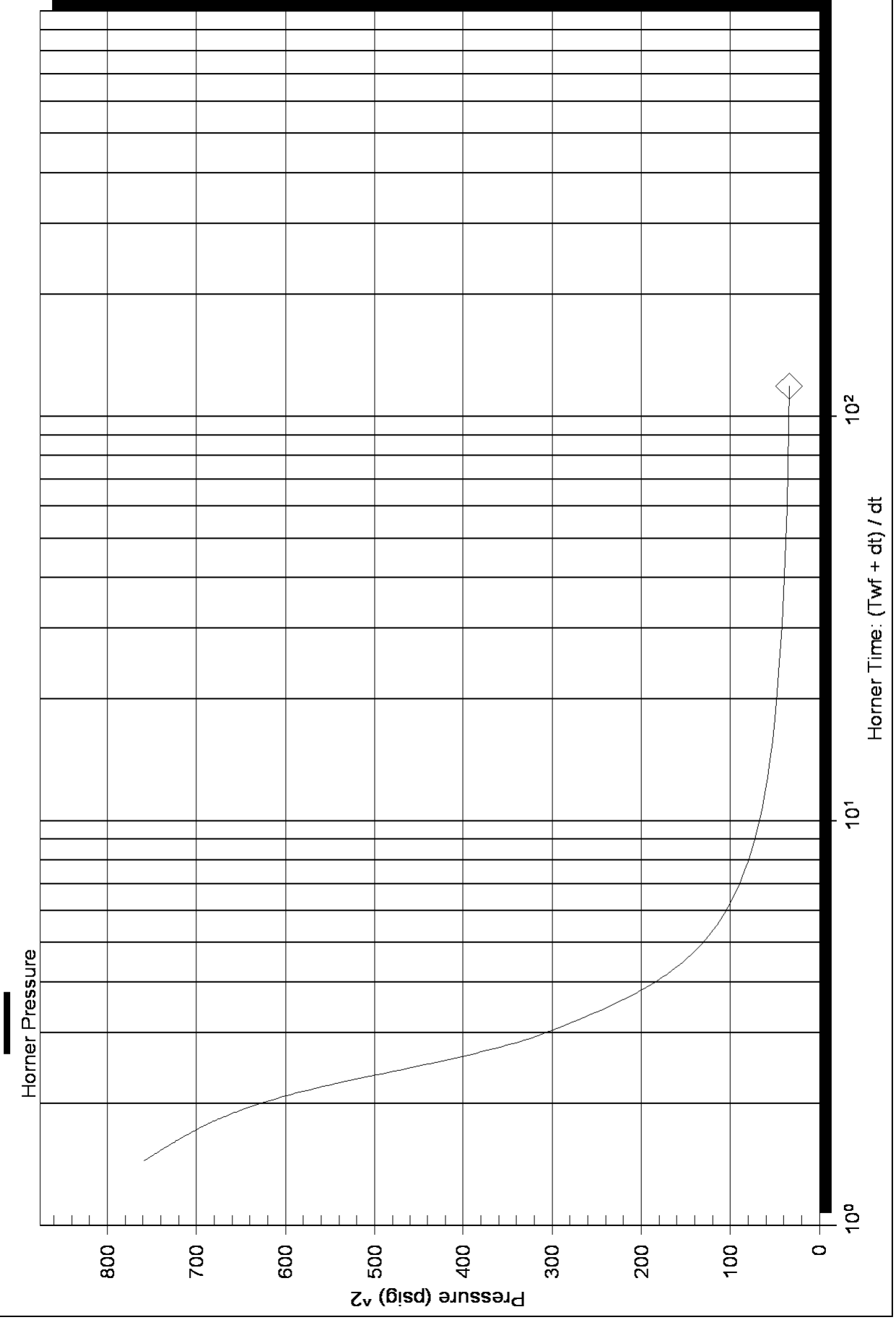
DST Test Number: 3



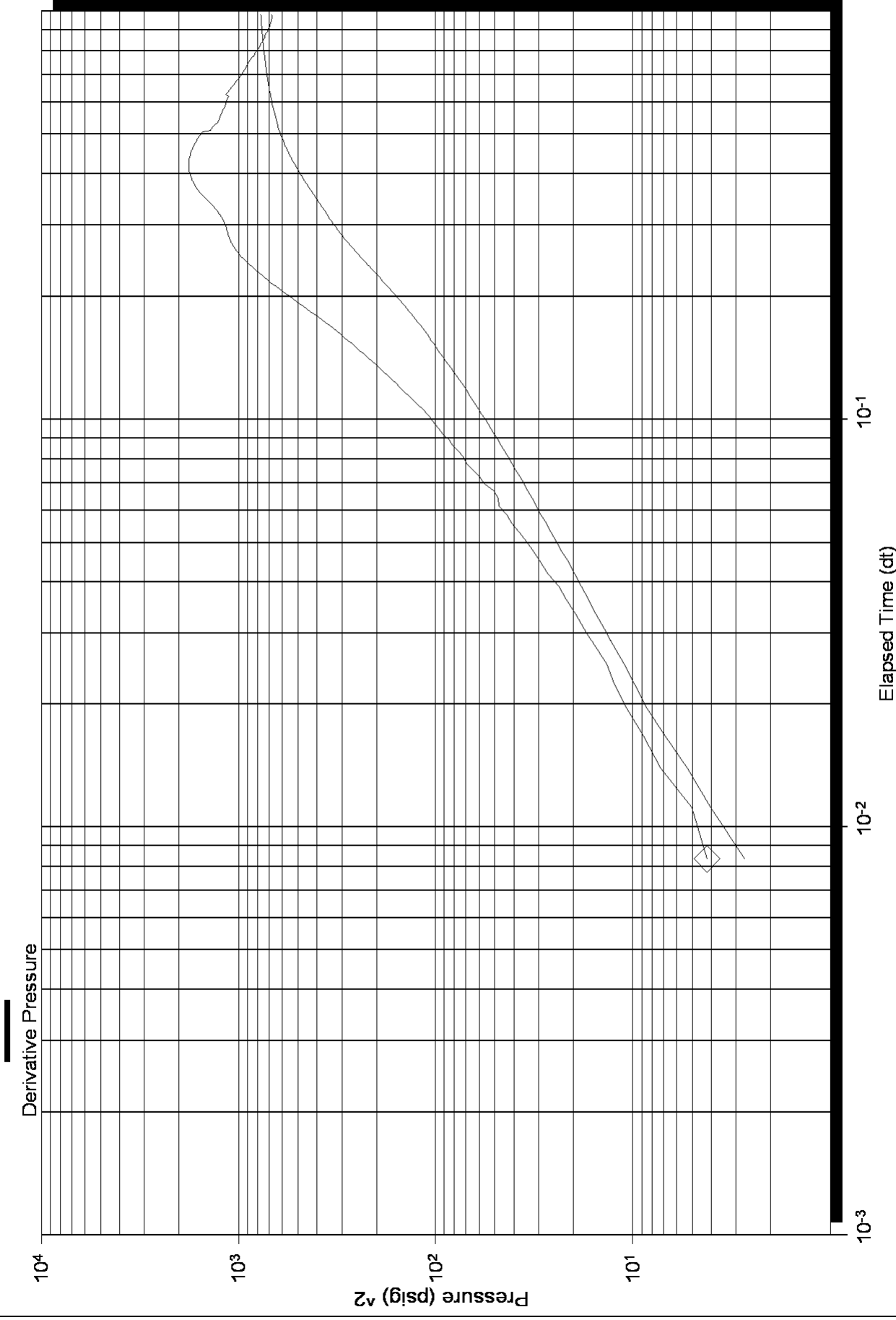
Homer Plot



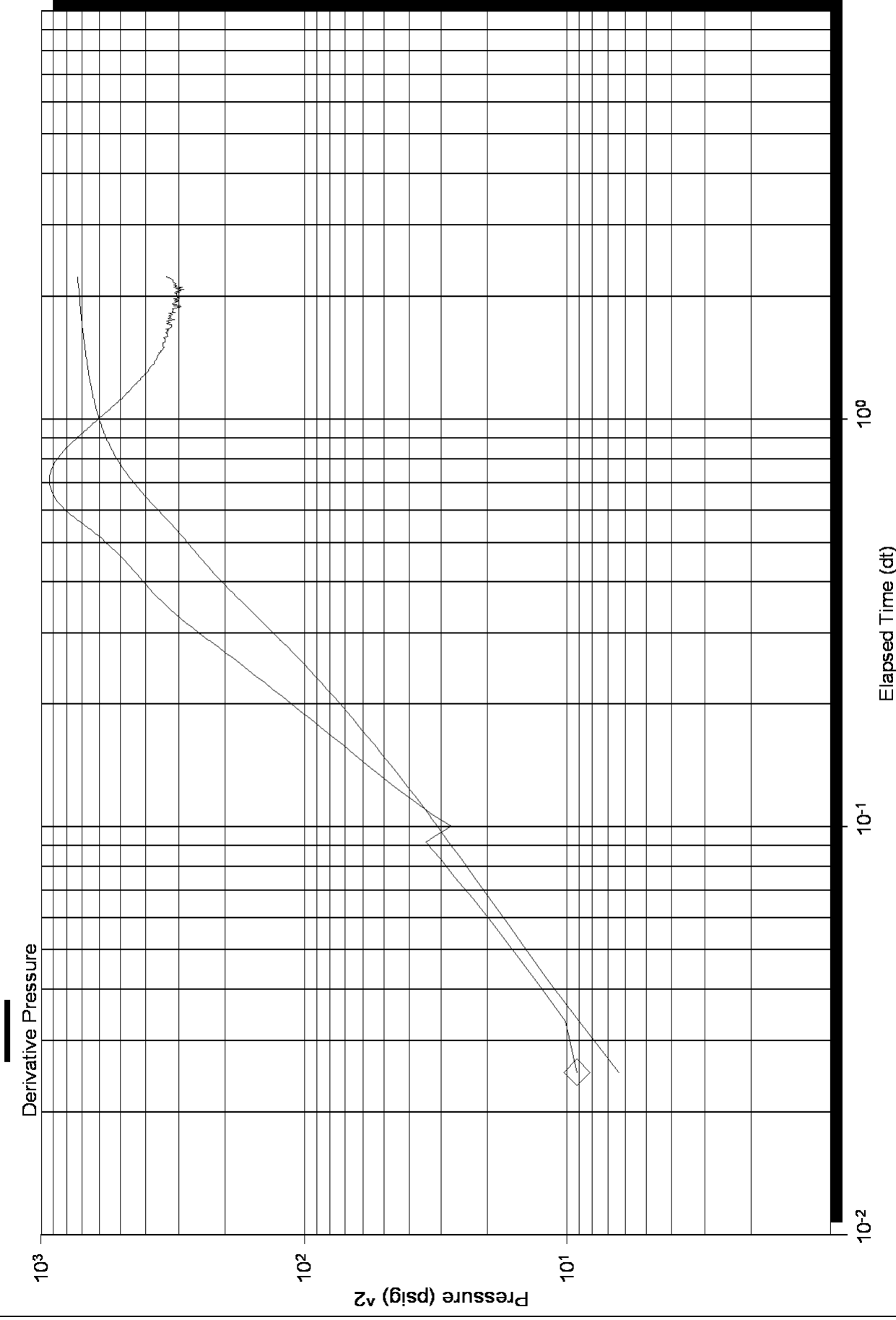
Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Neil

26/16S/16W-Rush

Maier 1-26

Start Date: 2011.05.14 @ 19:20:08

End Date: 2011.05.15 @ 03:06:08

Job Ticket #: 42885 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.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42885

DST#: 4

ATTN: Neil

Test Start: 2011.05.14 @ 19:20:08

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:37:38

Time Test Ended: 03:06:08

Test Type: Conventional Bottom Hole

Tester: Dusitn Rash

Unit No: 38

Interval: 3508.00 ft (KB) To 3570.00 ft (KB) (TVD)

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3570.00 ft (KB) (TVD)

1975.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 444.88 psig @ 3511.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.14

End Date:

2011.05.15

Last Calib.:

2011.05.15

Start Time: 19:30:08

End Time:

03:06:08

Time On Btm:

2011.05.14 @ 20:37:18

Time Off Btm:

2011.05.15 @ 00:33:38

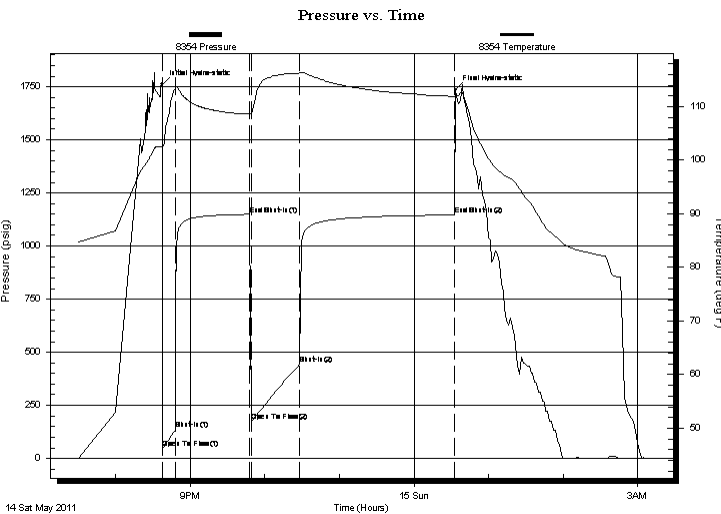
TEST COMMENT: IF-Fair building blow . BOB in 5 minutes.

ISI-No Return.

FF-Fair building blow . BOB in 4 minutes 45 seconds.

FSI-No Return.

Times- 10-60-4



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.87	102.63	Initial Hydro-static
1	46.10	102.02	Open To Flow (1)
11	135.42	113.34	Shut-In(1)
71	1149.35	108.59	End Shut-In(1)
72	172.97	108.53	Open To Flow (2)
111	444.88	116.24	Shut-In(2)
236	1146.34	111.90	End Shut-In(2)
237	1736.24	111.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
370.00	95%Water/5%Mud	5.19
310.00	80%Water/20%Mud	4.35
228.00	50%Water/50%Mud	3.20

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42885

DST#: 4

ATTN: Neil

Test Start: 2011.05.14 @ 19:20:08

Tool Information

Drill Pipe:	Length: 3502.00 ft	Diameter: 3.80 inches	Volume: 49.12 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:	5000.00 lb
			<u>Total Volume: 49.12 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3508.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	62.00 ft				
Tool Length:	92.00 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	3478.00	
Change Over Sub	1.00			3479.00	
Shut In Tool	5.00			3484.00	
Sampler	2.00			3486.00	
Hydraulic tool	5.00			3491.00	
Jars	5.00			3496.00	
Safety Joint	3.00			3499.00	
Packer	5.00			3504.00	30.00 Bottom Of Top Packer
Packer	4.00			3508.00	
Stubb	1.00			3509.00	
Perforations	2.00			3511.00	
Recorder	0.00	8354	Inside	3511.00	
Recorder	0.00	8520	Outside	3511.00	
Change Over Sub	1.00			3512.00	
Drill Pipe	31.00			3543.00	
Change Over Sub	1.00			3544.00	
Perforations	23.00			3567.00	
Bullnose	3.00			3570.00	62.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42885

DST#: 4

ATTN: Neil

Test Start: 2011.05.14 @ 19:20:08

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:	38000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: 0.26 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
370.00	95%Water/5%Mud	5.190
310.00	80%Water/20%Mud	4.348
228.00	50%Water/50%Mud	3.198

Total Length: 908.00 ft Total Volume: 12.736 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler- 1900 ML-Water 100 ML-Oil
300#Pressure.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42885

DST#: 4

ATTN: Neil

Test Start: 2011.05.14 @ 19:20:08

Gas Rates Information

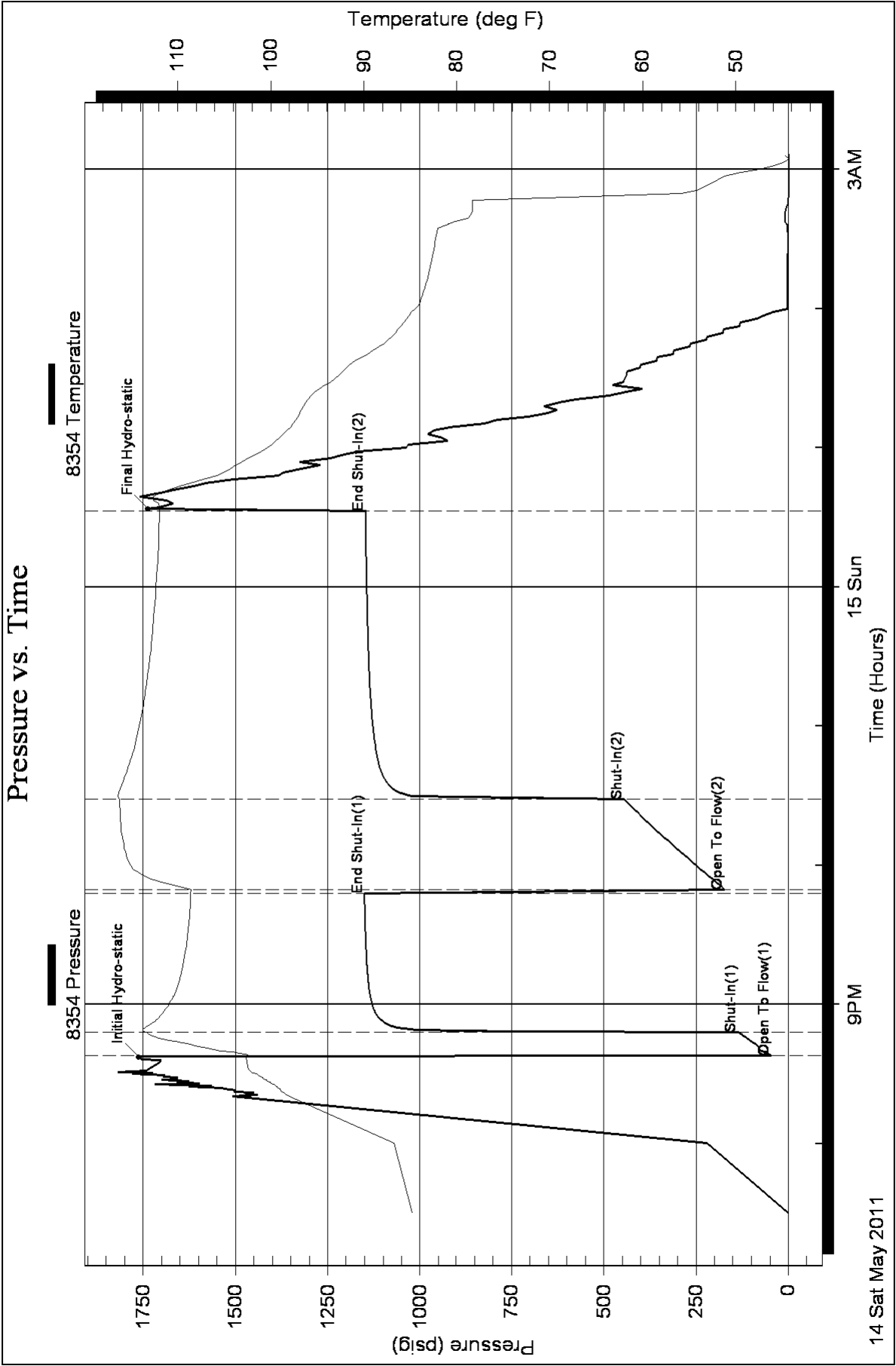
Temperature: 59 deg C

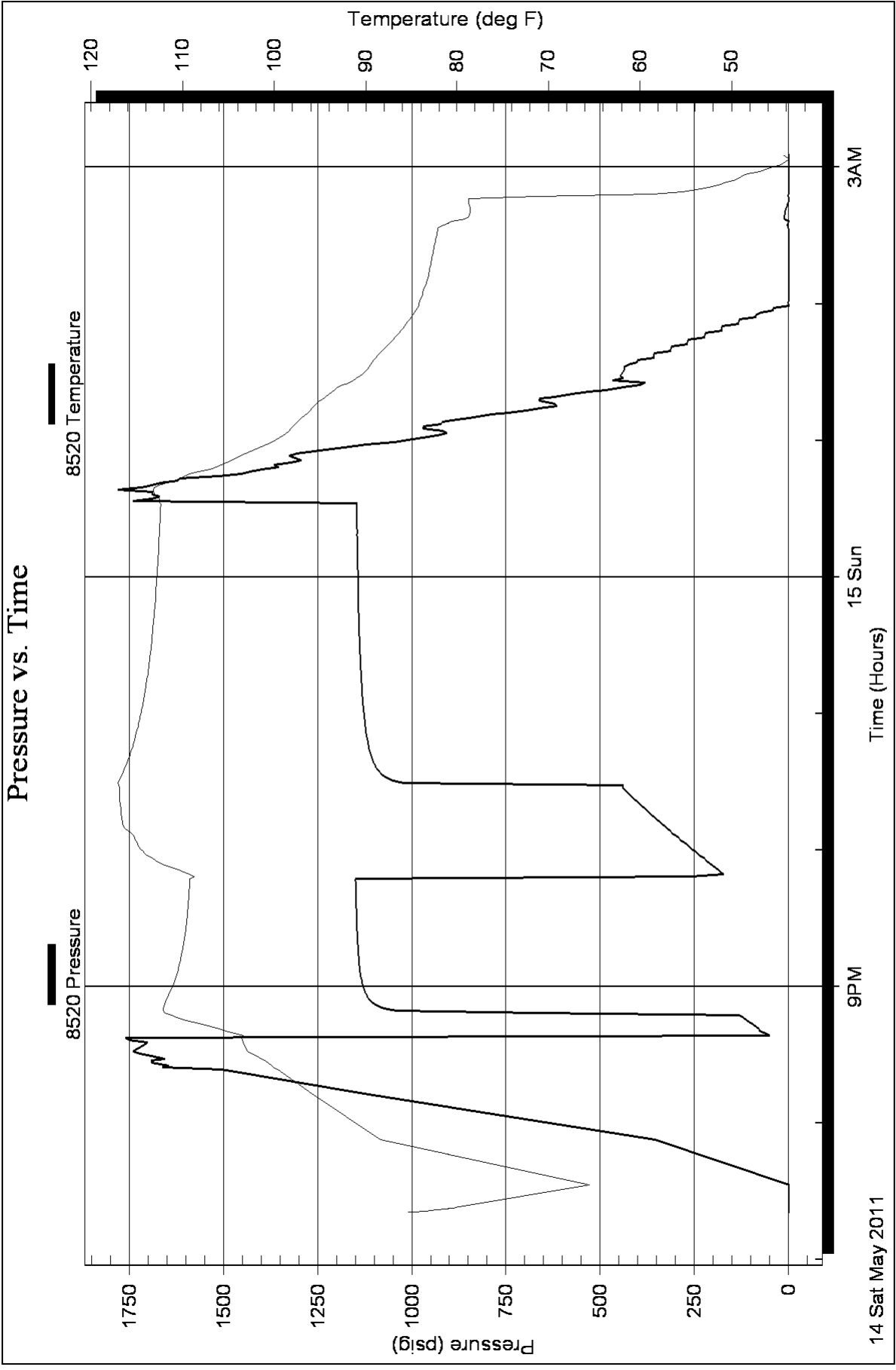
Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

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





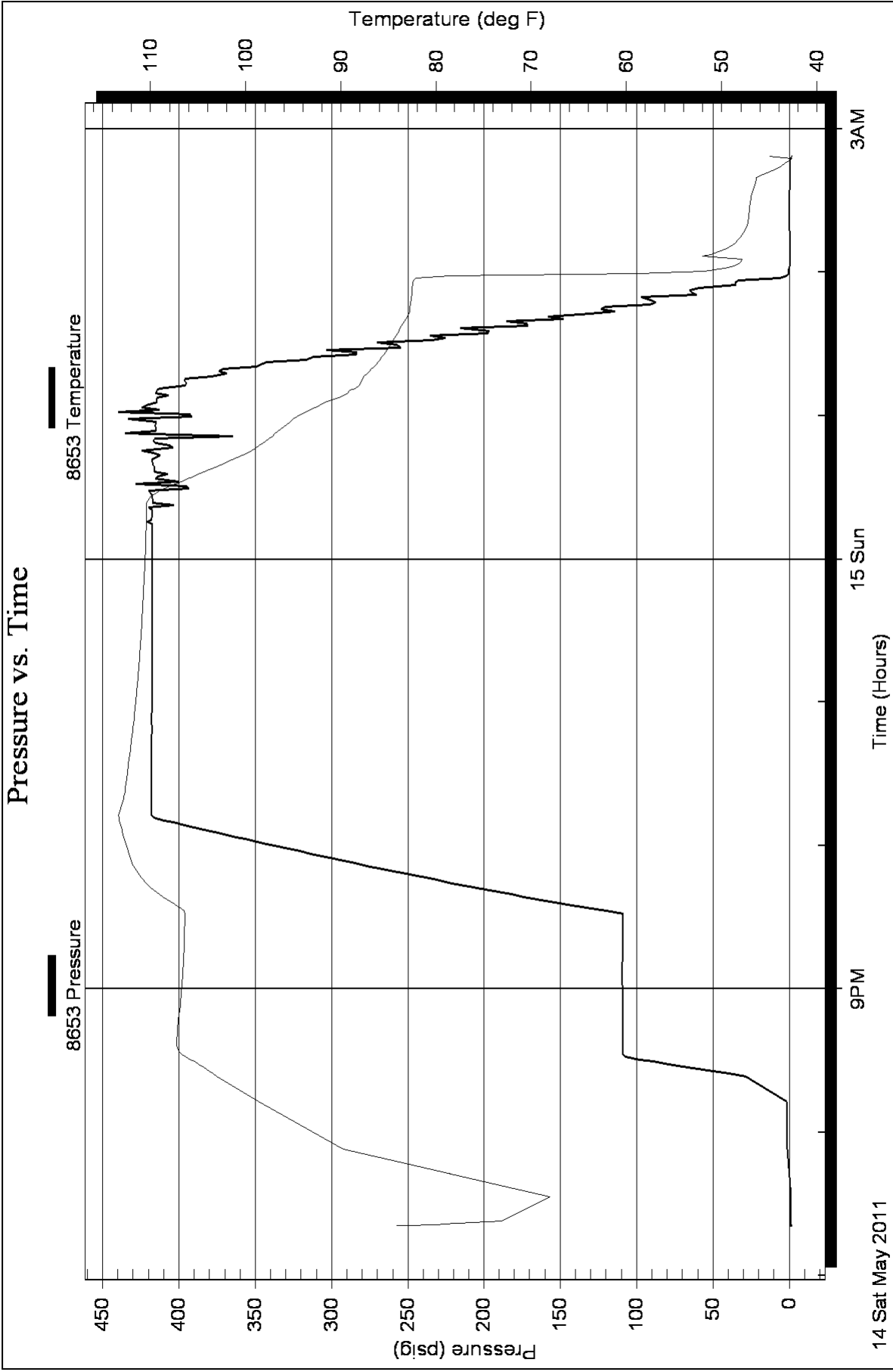
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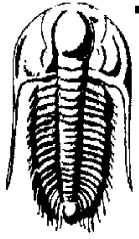
Fluid

Samuel Gary Jr. & Associates Inc.

26/16S/16W-Rush

DST Test Number: 4





**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42885

DST#: 4

ATTN: Neil

Test Start: 2011.05.14 @ 19:20:08

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	0.99	84.8		68.3	60.89	102.9
	40.0	662.77	92.8		69.0	60.06	103.8
	50.5	1440.27	98.2		69.7	73.06	105.4
	51.2	1472.53	98.4		70.3	77.81	106.4
	51.8	1598.90	98.7		71.0	89.73	107.2
	52.5	1500.76	98.9		71.7	82.53	107.8
	53.2	1530.83	99.0		72.3	87.32	108.5
	53.8	1532.28	99.2		73.0	93.70	109.3
	54.5	1565.62	99.4		73.7	99.41	110.2
	55.2	1717.17	99.7		74.3	105.58	111.1
	55.8	1595.89	100.0		75.0	110.99	111.8
	56.5	1627.19	100.3		75.7	117.13	112.4
	57.2	1698.84	100.4		76.3	122.62	112.8
	57.8	1658.49	100.8		77.0	128.23	113.1
	58.5	1814.43	101.0		77.5	132.76	113.2
	59.2	1691.37	101.3		77.7	134.15	113.3
	59.8	1715.12	101.6	Shut-In(1)	77.8	135.42	113.3
	60.5	1720.66	102.0		78.0	270.46	113.5
	61.2	1740.25	102.2		78.2	750.82	113.7
	61.8	1735.64	102.4		78.3	921.81	113.7
	62.5	1728.33	102.4		79.0	1035.69	113.6
	63.2	1720.94	102.5		79.7	1061.82	113.5
	63.8	1714.28	102.5		80.3	1076.57	113.2
	64.5	1707.79	102.5		81.0	1086.93	113.0
	65.2	1701.98	102.5		81.7	1094.47	112.7
	65.8	1694.12	102.6		82.3	1100.60	112.5
	66.5	1756.43	102.6		83.0	1105.55	112.3
	66.8	1756.30	102.6		83.7	1109.81	112.1
	67.0	1756.30	102.6		84.3	1113.12	111.9
Initial Hydro-static	67.2	1761.87	102.6		85.0	1116.20	111.8
	67.3	1749.71	102.6		85.7	1118.71	111.6
Open To Flow (1)	67.5	46.10	102.0		86.3	1121.08	111.5
	67.7	46.32	102.3		87.0	1122.75	111.4

Printing every 4 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	87.7	1124.58	111.3		125.0	1147.56	108.8
	88.3	1126.09	111.1		127.0	1147.89	108.7
	89.0	1127.49	111.0		129.0	1148.24	108.7
	89.7	1128.72	110.9		131.0	1148.50	108.7
	90.3	1129.90	110.8		133.0	1149.09	108.6
	91.0	1130.98	110.7		135.0	1149.19	108.6
	91.7	1131.87	110.6		136.5	1149.29	108.6
	92.3	1132.71	110.5		137.0	1149.32	108.6
	93.0	1133.69	110.5	End Shut-In(1)	137.5	1149.35	108.6
	93.7	1134.31	110.4		138.0	1149.33	108.6
	94.3	1135.12	110.3		138.5	289.06	108.2
	95.0	1135.75	110.2	Open To Flow (2)	139.0	172.97	108.5
	95.7	1136.33	110.2		139.5	174.83	108.9
	96.3	1136.91	110.1		140.0	178.84	109.4
	97.0	1137.60	110.0		140.5	182.69	110.1
	97.7	1138.04	110.0		142.5	196.92	112.0
	98.3	1138.45	109.9		144.5	211.93	113.4
	99.0	1139.04	109.9		146.5	227.01	114.2
	99.7	1139.35	109.8		148.5	242.26	114.9
	100.3	1139.68	109.8		150.5	257.10	115.2
	101.0	1140.20	109.7		152.5	271.52	115.4
	101.7	1140.60	109.7		154.5	286.17	115.5
	102.3	1140.89	109.6		156.5	300.77	115.7
	103.0	1141.25	109.6		158.5	315.07	115.8
	103.7	1141.63	109.6		160.5	329.15	115.9
	104.3	1141.85	109.5		162.5	342.95	116.0
	105.0	1142.27	109.5		164.5	356.77	116.0
	105.7	1142.52	109.5		166.5	370.47	116.1
	106.3	1142.77	109.4		168.5	383.77	116.1
	107.0	1143.04	109.4		170.5	397.06	116.2
	107.7	1143.27	109.4		172.5	409.99	116.2
	108.3	1143.85	109.3		174.5	422.83	116.2
	109.0	1143.66	109.3		176.5	435.42	116.2
	109.7	1143.86	109.3		177.0	438.45	116.2
	111.0	1144.28	109.2		177.5	441.61	116.2
	113.0	1144.92	109.1	Shut-In(2)	178.0	444.88	116.2
	115.0	1145.54	109.0		178.5	439.31	116.2
	117.0	1145.95	109.0		179.0	977.04	116.4
	119.0	1146.45	108.9		179.5	1022.56	116.4
	121.0	1146.93	108.9		181.5	1064.47	116.2
	123.0	1147.25	108.8		183.5	1081.57	116.0

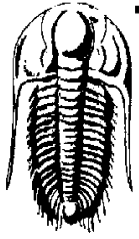
Printing every 4 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	185.5	1091.74	115.8		267.5	1143.14	112.3
	187.5	1098.85	115.7		269.5	1143.31	112.3
	189.5	1104.25	115.5		271.5	1143.87	112.3
	191.5	1108.29	115.3		273.5	1143.74	112.3
	193.5	1111.83	115.1		275.5	1143.90	112.2
	195.5	1114.75	115.0		277.5	1144.15	112.2
	197.5	1117.14	114.8		279.5	1144.39	112.1
	199.5	1119.39	114.7		281.5	1144.50	112.1
	201.5	1121.23	114.6		283.5	1145.11	112.1
	203.5	1122.90	114.4		285.5	1144.95	112.1
	205.5	1124.45	114.3		287.5	1145.48	112.0
	207.5	1125.91	114.2		289.5	1145.64	112.0
	209.5	1127.22	114.1		291.5	1145.47	112.0
	211.5	1128.25	114.0		293.5	1145.92	112.0
	213.5	1129.30	113.9		295.5	1146.06	112.0
	215.5	1130.44	113.8		297.5	1146.16	111.9
	217.5	1131.18	113.7		299.5	1146.23	111.9
	219.5	1132.00	113.6		301.5	1146.30	111.9
	221.5	1132.97	113.5		302.0	1146.32	111.9
	223.5	1133.67	113.5	End Shut-In(2)	302.5	1146.34	111.9
	225.5	1134.39	113.4		303.0	1579.32	112.0
	227.5	1135.04	113.3	Final Hydro-static	303.5	1736.24	112.0
	229.5	1135.66	113.3		304.0	1704.47	111.9
	231.5	1136.21	113.2		306.0	1689.88	112.2
	233.5	1136.71	113.1		308.0	1703.62	112.7
	235.5	1137.34	113.1		310.0	1704.19	112.1
	237.5	1137.69	113.0		312.0	1560.11	110.8
	239.5	1138.24	113.0		314.0	1594.23	108.9
	241.5	1138.66	112.9		316.0	1505.51	107.2
	243.5	1139.13	112.8		318.0	1415.57	105.5
	245.5	1139.60	112.8		320.0	1323.21	104.6
	247.5	1139.91	112.7		322.0	1270.87	103.8
	249.5	1140.37	112.7		324.0	1274.38	102.9
	251.5	1140.73	112.7		326.0	1177.87	101.9
	253.5	1141.06	112.6		328.0	1165.73	101.0
	255.5	1141.36	112.6		330.0	1075.79	100.2
	257.5	1141.72	112.5		332.0	985.30	99.6
	259.5	1141.96	112.5		334.0	940.43	99.0
	261.5	1142.29	112.5		336.0	958.43	98.5
	263.5	1142.45	112.4		338.0	923.18	98.0
	265.5	1142.80	112.4		340.0	822.66	97.6

Printing every 4 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	342.0	753.17	97.2		424.0	1.25	82.1
	344.0	695.32	97.0		426.0	1.49	80.9
	346.0	627.71	96.7		428.0	8.93	79.0
	348.0	651.97	96.4		430.0	8.88	78.5
	350.0	575.12	96.1		432.0	6.78	78.3
	352.0	486.43	95.6		434.0	1.42	78.3
	354.0	417.87	95.0		436.0	-0.42	78.2
	356.0	427.88	94.4		438.0	-0.96	62.7
	358.0	446.65	93.6		440.0	-1.72	54.6
	360.0	440.79	92.9		442.0	-1.69	53.4
	362.0	433.79	92.4		444.0	-1.70	52.4
	364.0	402.79	91.9		446.0	-1.74	51.5
	366.0	398.84	91.4		448.0	-1.80	49.5
	368.0	357.92	90.4		450.0	-1.69	46.9
	370.0	312.74	89.6		452.0	-1.89	45.2
	372.0	263.24	88.8		454.0	-1.76	44.3
	374.0	266.47	88.0		456.0	-1.97	45.2
	376.0	221.89	87.4				
	378.0	192.97	86.9				
	380.0	176.04	86.5				
	382.0	131.60	86.0				
	384.0	89.15	85.6				
	386.0	85.81	85.2				
	388.0	41.17	84.9				
	390.0	1.37	84.2				
	392.0	0.16	84.0				
	394.0	1.86	83.8				
	396.0	1.94	83.7				
	398.0	2.35	83.5				
	400.0	2.89	83.3				
	402.0	3.24	83.2				
	404.0	2.67	83.1				
	406.0	2.58	83.0				
	408.0	1.51	82.9				
	410.0	1.86	82.7				
	412.0	1.83	82.6				
	414.0	0.39	82.5				
	416.0	0.38	82.4				
	418.0	0.52	82.3				
	420.0	0.43	82.3				
	422.0	1.09	82.2				

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42885

DST#: 4

ATTN: Neil

Test Start: 2011.05.14 @ 19:20:08

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.04	85.3		1.6	-0.87	80.8
	0.1	-0.96	85.2		1.7	-0.89	80.7
	0.1	-0.94	85.0		1.8	-0.88	80.6
	0.2	-0.96	84.8		1.8	-0.90	80.5
	0.2	-0.95	84.6		1.9	-0.91	80.4
	0.3	-0.95	84.4		1.9	-0.92	80.3
	0.3	-0.93	84.1		2.0	-0.93	80.2
	0.3	-0.92	83.9		12.0	-0.97	65.5
	0.4	-0.90	83.7		42.0	819.10	93.9
	0.4	-0.88	83.6		62.5	1504.76	99.6
	0.5	-0.86	83.4		64.0	1564.55	100.1
	0.6	-0.86	83.3		65.5	1690.72	100.7
	0.6	-0.88	83.2		67.0	1659.38	101.3
	0.7	-0.88	83.1		68.5	1691.48	101.9
	0.7	-0.88	83.0		70.0	1757.80	102.6
	0.8	-0.89	82.9		71.5	1732.02	103.0
	0.8	-0.89	82.8		73.0	1715.84	103.2
	0.9	-0.89	82.6		74.5	1701.22	103.4
	0.9	-0.89	82.5		76.0	1755.22	103.5
	0.9	-0.91	82.4		77.5	51.31	103.4
	1.0	-0.89	82.3		79.0	71.84	104.9
	1.1	-0.90	82.2		80.5	77.94	106.0
	1.1	-0.89	82.1		82.0	89.89	107.4
	1.1	-0.89	82.0		83.5	103.80	108.9
	1.2	-0.87	81.9		85.0	116.95	110.3
	1.3	-0.88	81.7		86.5	130.03	111.2
	1.3	-0.88	81.6		88.0	1005.01	112.1
	1.4	-0.89	81.5		89.5	1073.90	112.1
	1.4	-0.89	81.4		91.0	1095.44	112.0
	1.5	-0.89	81.3		92.5	1107.58	111.9
	1.5	-0.89	81.2		94.0	1115.57	111.7
	1.6	-0.88	81.0		95.5	1121.08	111.5
	1.6	-0.87	80.9		97.0	1125.27	111.4

Printing every 3 samples

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	1128.40	111.2		160.0	259.86	114.7
	100.0	1130.88	111.0		161.5	270.89	114.9
	101.5	1133.01	110.9		163.0	281.97	115.1
	103.0	1134.78	110.8		164.5	292.74	115.3
	104.5	1136.43	110.7		166.0	303.79	115.5
	106.0	1137.40	110.6		167.5	314.65	116.0
	107.5	1138.75	110.4		169.0	325.40	116.4
	109.0	1139.54	110.3		170.5	335.86	116.5
	110.5	1140.52	110.3		172.0	345.81	116.6
	112.0	1141.38	110.2		173.5	356.28	116.7
	113.5	1142.03	110.1		175.0	366.79	116.7
	115.0	1142.52	110.0		176.5	377.02	116.8
	116.5	1143.18	110.0		178.0	386.76	116.8
	118.0	1143.77	109.9		179.5	396.69	116.8
	119.5	1144.09	109.8		181.0	406.63	116.9
	121.0	1144.75	109.8		182.5	416.41	116.9
	122.5	1145.10	109.7		184.0	425.68	116.9
	124.0	1145.42	109.7		185.5	435.30	116.9
	125.5	1145.82	109.6		187.0	444.60	116.9
	127.0	1146.13	109.6		188.5	1021.56	117.0
	128.5	1146.45	109.6		190.0	1058.18	116.9
	130.0	1146.78	109.5		191.5	1074.49	116.7
	131.5	1147.10	109.5		193.0	1084.73	116.6
	133.0	1147.37	109.4		194.5	1091.93	116.4
	134.5	1147.56	109.4		196.0	1097.39	116.2
	136.0	1147.85	109.4		197.5	1101.84	116.1
	137.5	1148.14	109.4		199.0	1105.45	115.9
	139.0	1148.29	109.3		200.5	1108.39	115.8
	140.5	1148.88	109.3		202.0	1111.03	115.7
	142.0	1148.63	109.3		203.5	1113.35	115.5
	143.5	1149.04	109.3		205.0	1115.42	115.4
	145.0	1149.12	109.2		206.5	1117.18	115.3
	146.5	1149.22	109.2		208.0	1119.05	115.2
	148.0	171.27	109.1		209.5	1120.51	115.1
	149.5	180.97	109.9		211.0	1121.64	115.0
	151.0	191.35	110.9		212.5	1122.99	114.9
	152.5	202.42	111.9		214.0	1124.12	114.9
	154.0	213.74	112.7		215.5	1125.20	114.8
	155.5	225.47	113.4		217.0	1126.22	114.7
	157.0	237.11	113.9		218.5	1127.03	114.6
	158.5	248.65	114.4		220.0	1127.97	114.5

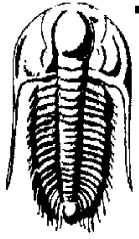
Printing every 3 samples

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	1128.92	114.4		283.0	1143.61	112.8
	223.0	1129.58	114.4		284.5	1143.70	112.7
	224.5	1130.27	114.3		286.0	1143.95	112.7
	226.0	1130.97	114.2		287.5	1144.09	112.7
	227.5	1131.53	114.2		289.0	1144.59	112.7
	229.0	1132.26	114.1		290.5	1144.39	112.6
	230.5	1132.75	114.0		292.0	1144.90	112.6
	232.0	1133.34	114.0		293.5	1145.03	112.6
	233.5	1133.83	114.0		295.0	1145.16	112.6
	235.0	1134.41	113.9		296.5	1144.99	112.6
	236.5	1134.90	113.8		298.0	1145.42	112.6
	238.0	1135.36	113.8		299.5	1145.19	112.5
	239.5	1135.82	113.7		301.0	1145.32	112.5
	241.0	1136.34	113.7		302.5	1145.73	112.5
	242.5	1136.72	113.6		304.0	1145.84	112.5
	244.0	1137.03	113.6		305.5	1145.94	112.5
	245.5	1137.41	113.5		307.0	1146.00	112.4
	247.0	1137.71	113.5		308.5	1146.05	112.4
	248.5	1138.14	113.5		310.0	1146.11	112.4
	250.0	1138.40	113.4		311.5	1146.14	112.4
	251.5	1138.76	113.4		313.0	1705.52	112.6
	253.0	1139.02	113.3		314.5	1669.30	112.7
	254.5	1139.49	113.3		316.0	1685.82	113.1
	256.0	1139.75	113.3		317.5	1779.58	113.2
	257.5	1139.93	113.2		319.0	1705.98	112.7
	259.0	1140.22	113.2		320.5	1668.47	111.8
	260.5	1140.55	113.2		322.0	1615.68	110.4
	262.0	1140.79	113.1		323.5	1514.09	109.7
	263.5	1141.08	113.1		325.0	1507.26	108.6
	265.0	1141.24	113.1		326.5	1397.47	107.0
	266.5	1141.57	113.0		328.0	1369.18	106.1
	268.0	1141.77	113.0		329.5	1322.16	105.2
	269.5	1141.85	113.0		331.0	1247.58	104.5
	271.0	1142.12	113.0		332.5	1326.37	103.7
	272.5	1142.34	112.9		334.0	1252.14	102.8
	274.0	1142.58	112.9		335.5	1213.78	102.0
	275.5	1142.75	112.9		337.0	1166.76	101.1
	277.0	1142.89	112.9		338.5	1047.33	100.3
	278.5	1143.52	112.8		340.0	1030.93	99.6
	280.0	1143.68	112.8		341.5	933.88	99.1
	281.5	1143.42	112.8		343.0	940.16	98.6

Printing every 3 samples

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	971.06	98.2		406.0	-0.67	83.7
	346.0	968.23	97.8		407.5	-0.67	83.5
	347.5	920.68	97.4		409.0	-0.69	83.4
	349.0	830.44	97.1		410.5	-0.70	83.2
	350.5	788.04	96.6		412.0	-0.72	83.1
	352.0	701.24	96.2		413.5	-0.72	83.1
	353.5	646.88	95.9		415.0	-0.73	83.0
	355.0	625.85	95.6		416.5	-0.72	82.9
	356.5	659.22	95.1		418.0	-0.72	82.8
	358.0	617.03	94.5		419.5	-0.70	82.8
	359.5	575.04	94.0		421.0	-0.69	82.7
	361.0	491.52	93.5		422.5	-0.69	82.6
	362.5	439.32	93.1		424.0	-0.69	82.6
	364.0	395.54	92.2		425.5	-0.69	82.5
	365.5	467.30	91.4		427.0	-0.65	82.4
	367.0	447.06	90.8		428.5	-0.63	82.3
	368.5	443.13	90.3		430.0	-0.61	82.3
	370.0	436.91	89.9		431.5	-0.55	82.2
	371.5	436.62	89.6		433.0	1.33	82.1
	373.0	403.26	89.4		434.5	1.60	81.1
	374.5	401.41	89.1		436.0	9.77	79.9
	376.0	358.59	88.9		437.5	9.56	78.7
	377.5	356.01	88.5		439.0	9.37	78.6
	379.0	313.11	88.1		440.5	8.51	78.5
	380.5	310.73	87.7		442.0	5.48	78.6
	382.0	267.99	87.4		443.5	2.27	78.7
	383.5	265.66	87.0		445.0	-0.82	78.7
	385.0	222.36	86.7		446.5	-0.50	71.2
	386.5	220.47	86.4		448.0	-0.52	56.6
	388.0	176.99	86.1		449.5	-1.02	53.8
	389.5	176.14	85.8		451.0	-1.04	51.9
	391.0	131.92	85.5		452.5	-1.04	50.5
	392.5	131.07	85.2		454.0	-1.03	49.5
	394.0	86.22	85.0		455.5	-1.04	48.7
	395.5	72.71	84.7		457.0	-1.04	47.5
	397.0	41.38	84.4		458.5	-1.06	46.0
	398.5	-0.59	84.2		460.0	-1.06	44.9
	400.0	-0.46	84.2		461.5	-1.10	44.1
	401.5	-0.70	84.0		463.0	-1.07	43.4
	403.0	-0.69	83.9		464.5	-1.00	44.4
	404.5	-0.69	83.8		465.0	-1.07	44.9

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

Maier 1-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42885

DST#: 4

ATTN: Neil

Test Start: 2011.05.14 @ 19:20:08

Serial # 8653 Fluid				Serial # 8653 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.53	84.1		1.6	-1.27	74.5
	0.1	-0.79	82.5		1.7	-1.27	74.2
	0.1	-0.71	82.2		1.8	-1.22	74.0
	0.2	-0.70	81.9		1.8	-1.19	73.8
	0.2	-0.69	81.6		1.9	-1.16	73.6
	0.3	-0.69	81.3		1.9	-1.12	73.4
	0.3	-0.69	81.0		2.0	-1.14	73.2
	0.3	-0.71	80.7		12.0	-1.27	68.1
	0.4	-0.72	80.5		42.0	1.67	94.4
	0.4	-0.74	80.2		62.5	28.69	103.0
	0.5	-0.78	79.9		64.0	44.43	103.7
	0.6	-0.81	79.6		65.5	59.59	104.2
	0.6	-0.86	79.3		67.0	74.69	104.7
	0.7	-0.91	79.1		68.5	88.72	105.4
	0.7	-0.95	78.8		70.0	102.69	106.1
	0.8	-0.97	78.5		71.5	108.63	106.7
	0.8	-0.98	78.3		73.0	108.55	107.0
	0.9	-1.00	78.1		74.5	108.62	107.2
	0.9	-1.02	77.9		76.0	108.69	107.2
	0.9	-1.03	77.6		77.5	108.77	107.3
	1.0	-1.04	77.4		79.0	108.80	107.2
	1.1	-1.04	77.2		80.5	108.83	107.2
	1.1	-1.04	77.0		82.0	108.85	107.2
	1.1	-1.04	76.8		83.5	108.86	107.1
	1.2	-1.06	76.5		85.0	108.85	107.1
	1.3	-1.08	76.3		86.5	108.84	107.1
	1.3	-1.11	76.1		88.0	108.84	107.0
	1.4	-1.13	75.8		89.5	108.84	107.0
	1.4	-1.17	75.6		91.0	108.86	106.9
	1.5	-1.19	75.4		92.5	108.89	106.9
	1.5	-1.22	75.2		94.0	108.91	106.8
	1.6	-1.25	74.9		95.5	108.93	106.8
	1.6	-1.28	74.7		97.0	108.96	106.8

Printing every 3 samples

Serial # 8653				Serial # 8653			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	108.97	106.7		160.0	345.88	112.6
	100.0	109.01	106.7		161.5	356.37	112.7
	101.5	109.04	106.7		163.0	366.33	112.9
	103.0	109.05	106.7		164.5	376.66	112.9
	104.5	109.05	106.6		166.0	386.78	113.0
	106.0	109.05	106.6		167.5	396.61	113.1
	107.5	109.03	106.6		169.0	406.51	113.2
	109.0	109.02	106.6		170.5	416.17	113.3
	110.5	109.02	106.5		172.0	417.74	113.3
	112.0	108.95	106.5		173.5	417.63	113.2
	113.5	108.92	106.5		175.0	417.64	113.1
	115.0	108.90	106.5		176.5	417.70	113.0
	116.5	108.87	106.5		178.0	417.72	112.9
	118.0	108.87	106.5		179.5	417.73	112.8
	119.5	108.87	106.5		181.0	417.75	112.7
	121.0	108.91	106.4		182.5	417.76	112.7
	122.5	108.93	106.4		184.0	417.76	112.6
	124.0	108.94	106.4		185.5	417.78	112.5
	125.5	108.96	106.4		187.0	417.77	112.5
	127.0	109.00	106.4		188.5	417.74	112.5
	128.5	108.96	106.4		190.0	417.71	112.4
	130.0	108.96	106.4		191.5	417.70	112.4
	131.5	119.76	106.5		193.0	417.68	112.3
	133.0	134.44	106.9		194.5	417.68	112.3
	134.5	147.94	107.5		196.0	417.67	112.2
	136.0	160.92	108.1		197.5	417.66	112.2
	137.5	173.85	108.7		199.0	417.65	112.1
	139.0	186.12	109.2		200.5	417.64	112.1
	140.5	198.75	109.7		202.0	417.62	112.0
	142.0	211.08	110.2		203.5	417.61	112.0
	143.5	223.02	110.5		205.0	417.60	111.9
	145.0	234.92	110.9		206.5	417.57	111.9
	146.5	246.60	111.1		208.0	417.57	111.8
	148.0	258.14	111.4		209.5	417.59	111.8
	149.5	269.39	111.6		211.0	417.59	111.8
	151.0	280.86	111.8		212.5	417.58	111.7
	152.5	292.07	112.0		214.0	417.59	111.7
	154.0	302.86	112.2		215.5	417.57	111.6
	155.5	313.65	112.3		217.0	417.54	111.6
	157.0	324.38	112.4		218.5	417.52	111.6
	158.5	335.18	112.5		220.0	417.51	111.5

Printing every 3 samples

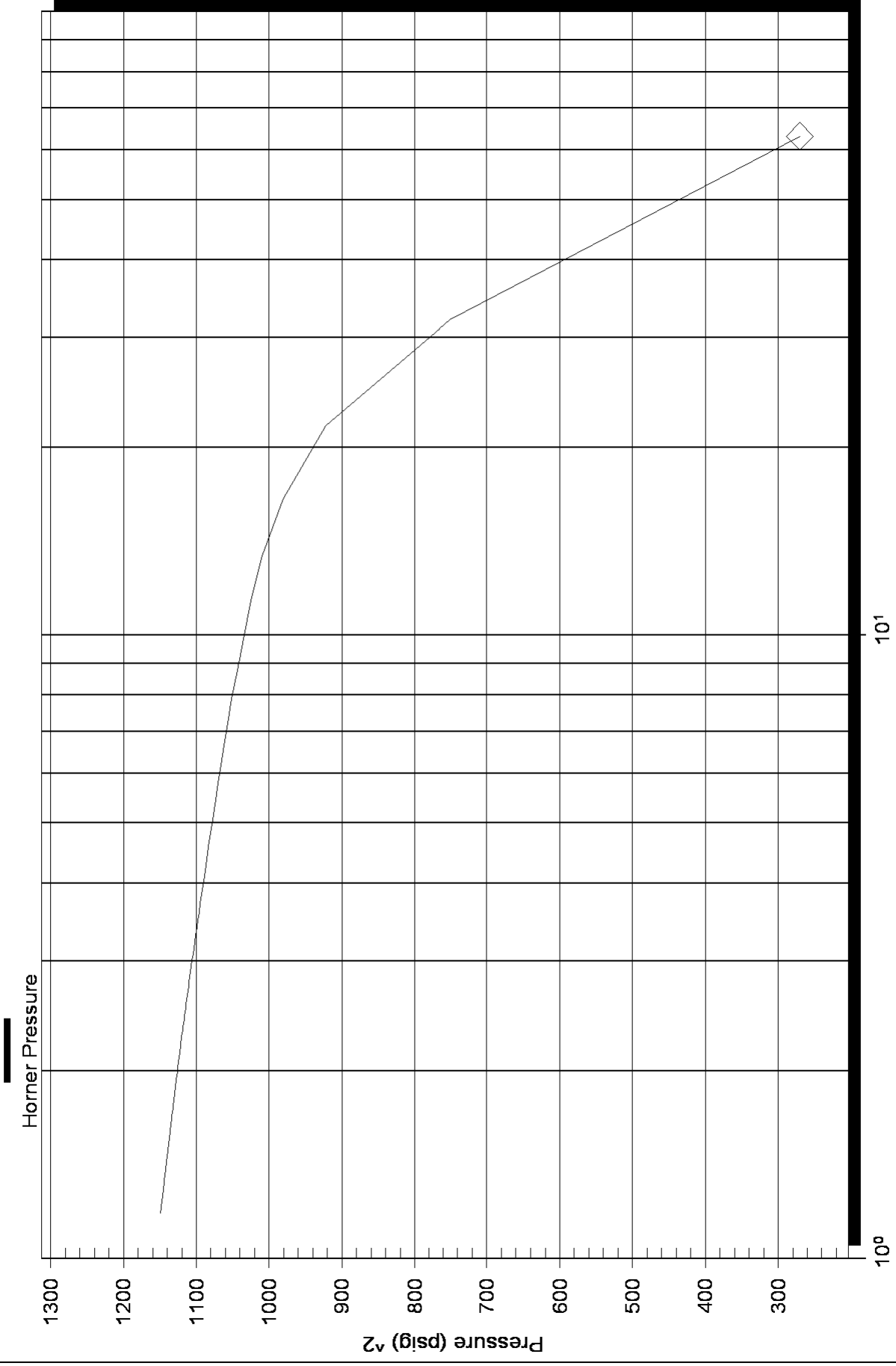
Serial # 8653				Serial # 8653			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	417.49	111.5		283.0	417.30	110.5
	223.0	417.49	111.5		284.5	417.30	110.5
	224.5	417.48	111.4		286.0	417.29	110.5
	226.0	417.47	111.4		287.5	417.27	110.5
	227.5	417.48	111.4		289.0	417.26	110.5
	229.0	417.47	111.3		290.5	417.25	110.5
	230.5	417.46	111.3		292.0	417.25	110.5
	232.0	417.47	111.3		293.5	417.28	110.4
	233.5	417.46	111.2		295.0	345.89	110.4
	235.0	417.47	111.2		296.5	417.58	110.4
	236.5	417.46	111.2		298.0	417.50	110.4
	238.0	417.47	111.2		299.5	417.42	110.4
	239.5	417.47	111.1		301.0	423.99	110.4
	241.0	417.46	111.1		302.5	417.53	110.4
	242.5	417.45	111.1		304.0	406.48	110.2
	244.0	417.45	111.0		305.5	417.52	109.8
	245.5	417.45	111.0		307.0	419.07	109.3
	247.0	417.45	111.0		308.5	393.71	108.5
	248.5	417.45	111.0		310.0	415.82	107.7
	250.0	417.44	110.9		311.5	400.39	106.8
	251.5	417.43	110.9		313.0	417.29	105.9
	253.0	417.42	110.9		314.5	407.50	105.0
	254.5	417.42	110.9		316.0	441.27	104.1
	256.0	417.42	110.9		317.5	415.99	103.2
	257.5	417.43	110.8		319.0	449.18	102.3
	259.0	417.43	110.8		320.5	417.68	101.5
	260.5	417.43	110.8		322.0	405.97	100.6
	262.0	417.43	110.8		323.5	416.82	99.9
	263.5	417.41	110.8		325.0	415.54	99.2
	265.0	417.40	110.7		326.5	405.89	98.6
	266.5	417.39	110.7		328.0	416.53	98.0
	268.0	417.37	110.7		329.5	415.93	97.5
	269.5	417.37	110.7		331.0	414.74	97.1
	271.0	417.36	110.7		332.5	415.45	96.6
	272.5	417.34	110.6		334.0	412.25	96.2
	274.0	417.33	110.6		335.5	415.56	95.7
	275.5	417.33	110.6		337.0	414.85	95.2
	277.0	417.31	110.6		338.5	391.36	94.7
	278.5	417.31	110.6		340.0	414.88	94.0
	280.0	417.32	110.6		341.5	412.73	93.3
	281.5	417.31	110.6		343.0	424.87	92.5

Printing every 3 samples

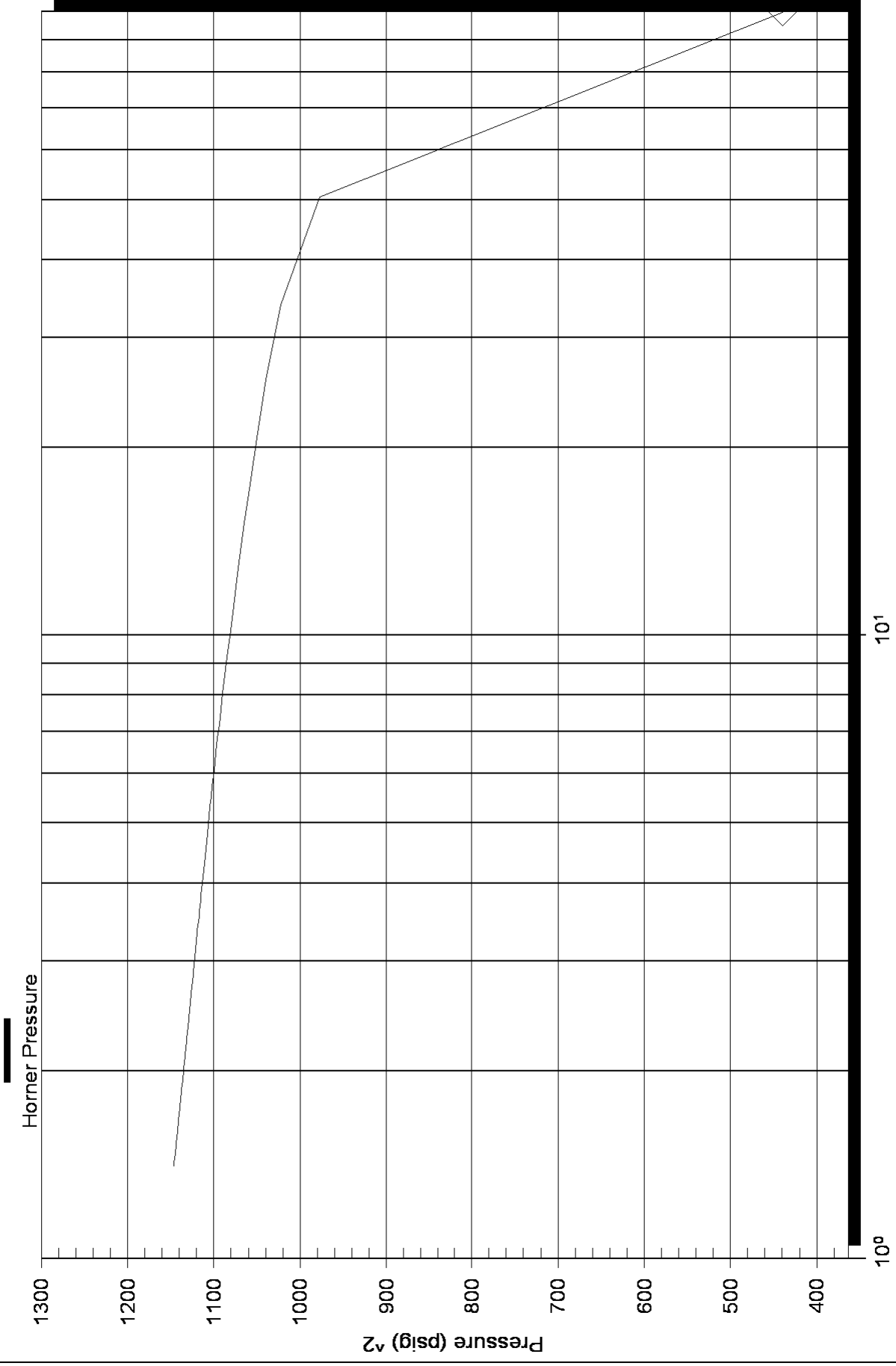
Serial # 8653				Serial # 8653			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	414.17	91.7		406.0	-0.44	51.6
	346.0	409.31	90.6		407.5	-0.45	50.3
	347.5	406.67	89.7		409.0	-0.46	49.5
	349.0	419.25	89.2		410.5	-0.47	48.8
	350.5	412.71	88.5		412.0	-0.43	48.4
	352.0	395.50	88.1		413.5	-0.40	48.0
	353.5	395.73	87.8		415.0	-0.37	47.8
	355.0	395.79	87.7		416.5	-0.33	47.6
	356.5	369.04	87.3		418.0	-0.29	47.4
	358.0	368.32	86.9		419.5	-0.27	47.3
	359.5	349.01	86.5		421.0	-0.25	47.2
	361.0	346.49	86.3		422.5	-0.24	47.2
	362.5	316.69	85.9		424.0	-0.24	47.1
	364.0	310.96	85.7		425.5	-0.23	47.1
	365.5	283.61	85.3		427.0	-0.22	47.0
	367.0	294.81	85.2		428.5	-0.24	47.0
	368.5	257.18	84.8		430.0	-0.25	46.9
	370.0	257.17	84.7		431.5	-0.28	46.8
	371.5	225.64	84.4		433.0	-0.31	46.7
	373.0	225.21	84.2		434.5	-0.37	46.6
	374.5	196.54	83.9		436.0	-0.41	46.5
	376.0	209.74	83.8		437.5	-0.44	46.4
	377.5	171.85	83.5		439.0	-0.49	46.3
	379.0	156.15	83.3		440.5	-0.54	45.2
	380.5	157.56	83.0		442.0	-0.52	44.4
	382.0	124.24	82.9		443.5	-0.46	43.7
	383.5	123.45	82.8		445.0	-0.62	43.2
	385.0	88.18	82.7		446.5	-0.65	42.6
	386.5	87.50	82.7		447.5	-1.55	45.0
	388.0	96.05	82.7				
	389.5	60.57	82.6				
	391.0	61.98	82.6				
	392.5	59.31	82.5				
	394.0	32.79	82.5				
	395.5	33.56	82.4				
	397.0	1.63	82.1				
	398.5	0.56	58.7				
	400.0	0.58	50.5				
	401.5	-0.18	48.8				
	403.0	-0.44	48.1				
	404.5	-0.48	47.8				

Printing every 3 samples

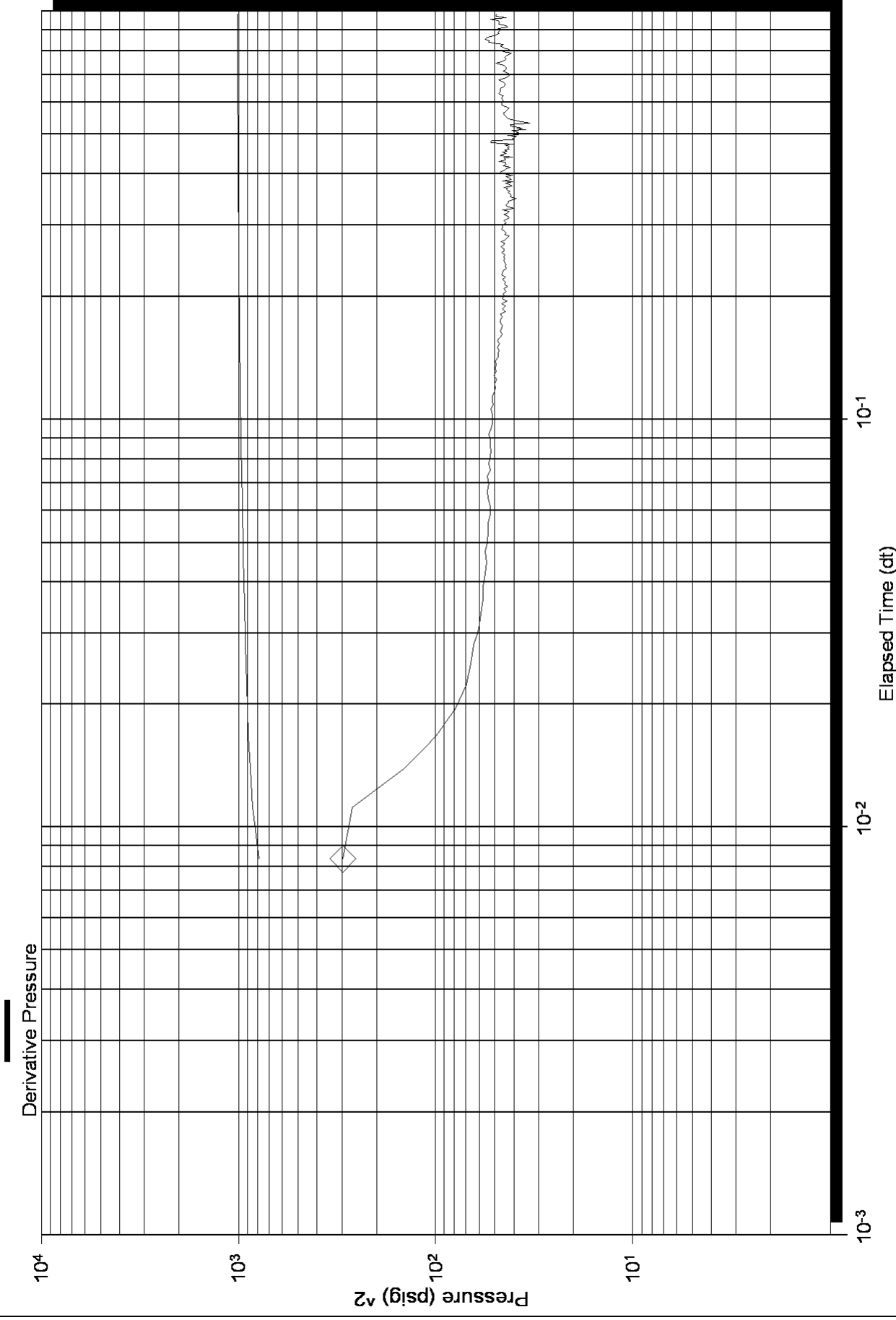
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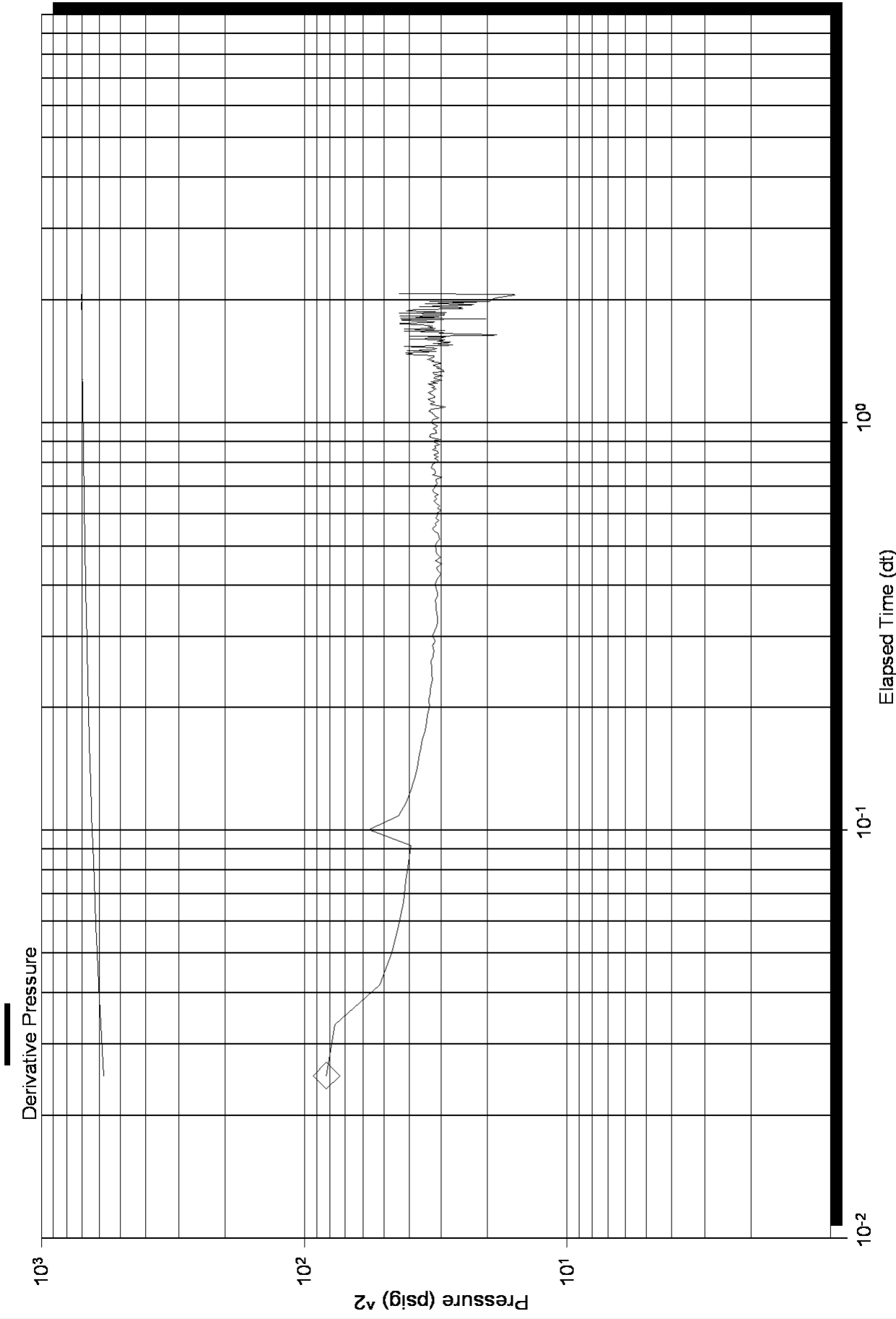
Homer Plot

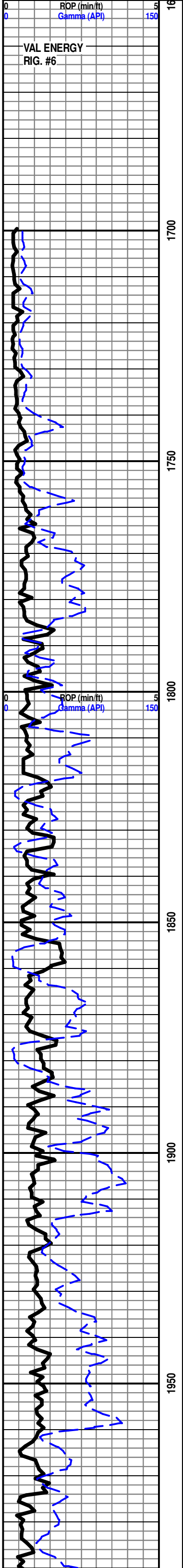


Log-Log and Pseudo-Derivative

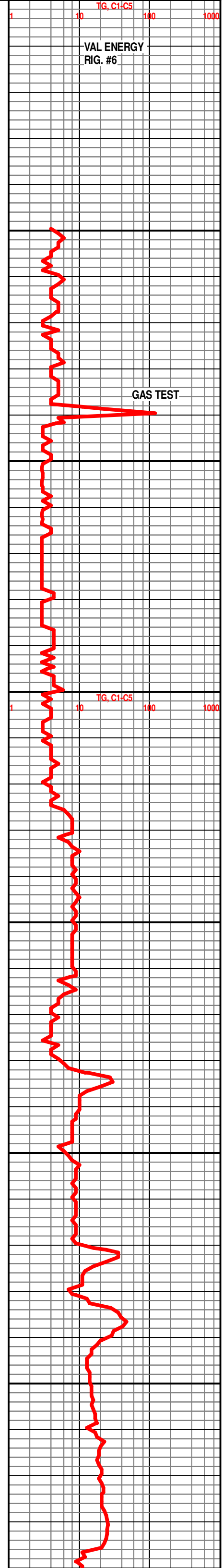


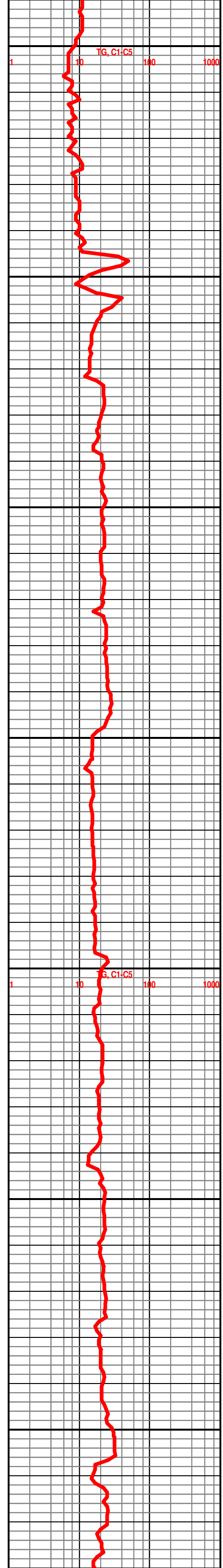
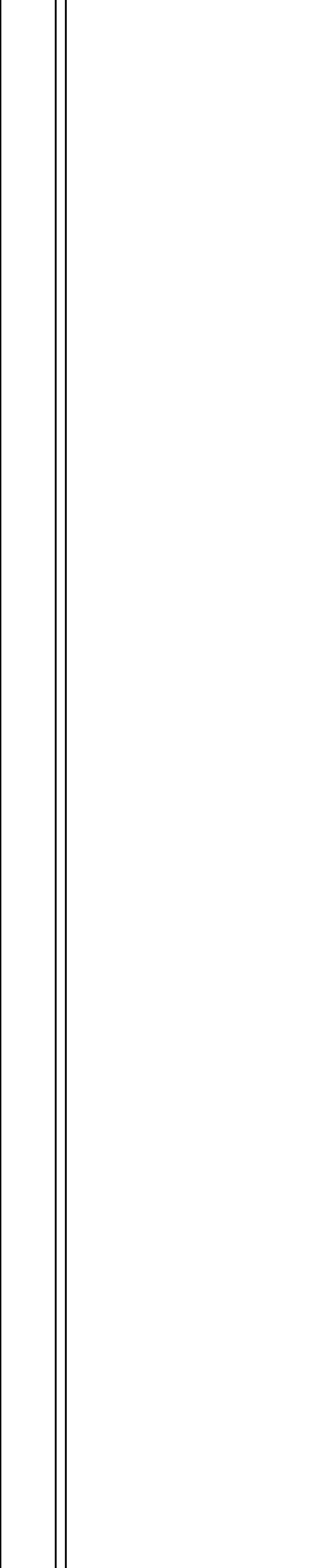
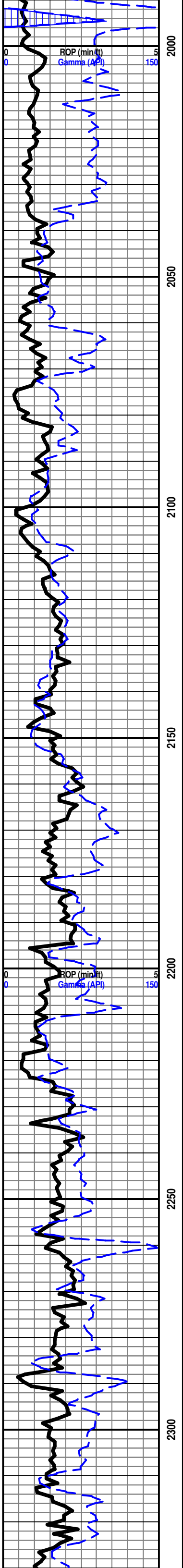
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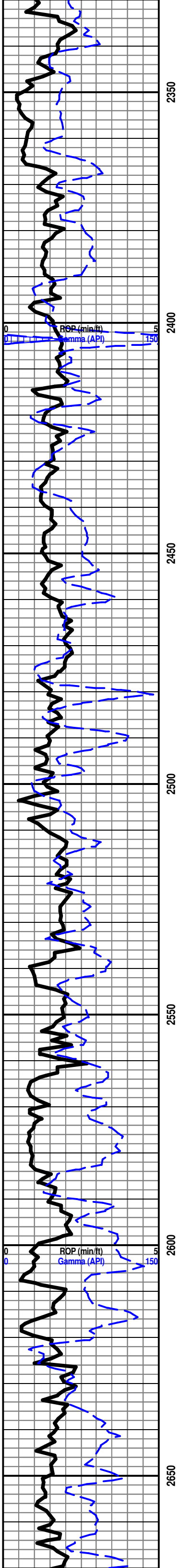




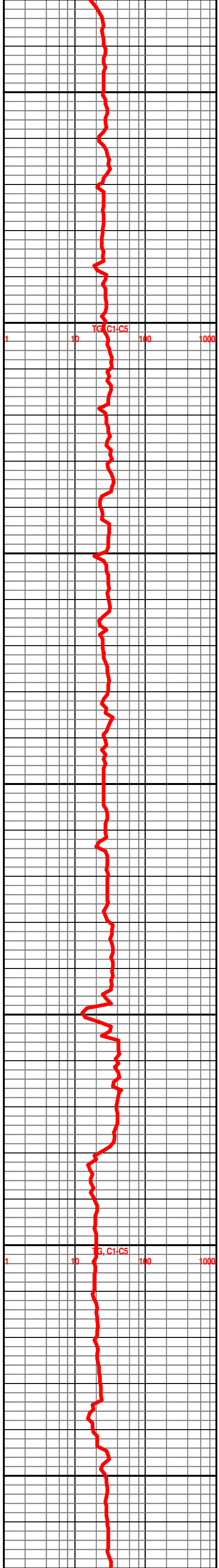
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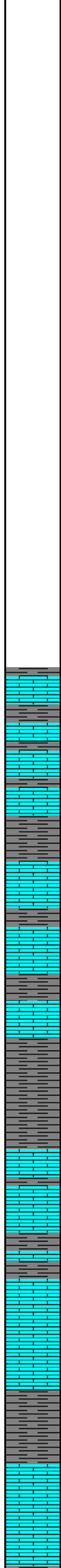
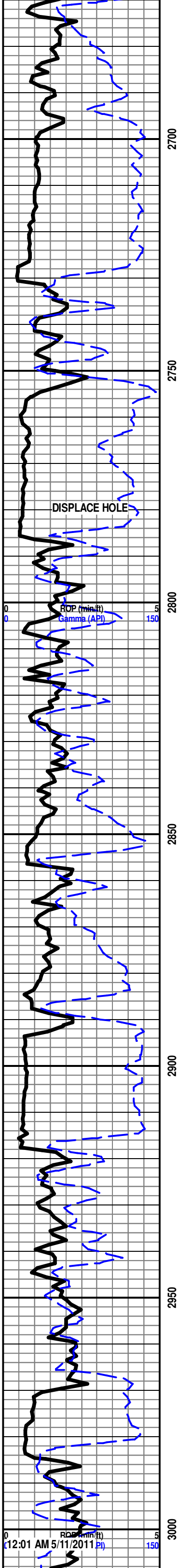




2350 2400 2450 2500 2550 2600 2650



2350 2400 2450 2500 2550 2600 2650



BASE ROOT SHALE @ 2730' -746'

STARTED MANNED UNIT ON 5/10/2011 @ 7:00 P.M.

LS- GRY CRM LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS SCAT THRU, IMBD SHALE IN 50%, DLL TO TR BRIT YEL FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

LS- GRY CRM LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS SCAT THRU, IMBD CALC XLS IN 30%, SLI TR SFT WHT CHLK IP, IMBD SHALE IN 30%, DLL TO TR BRIT YEL FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- LT GRY TO DK GRY, FRM, SMTH BLKY

LS- GRY CRM LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS SCAT THRU, IMBD CALC XLS IN 30%, SLI TR SFT GRYISH WHT CHLK 10%, IMBD SHALE IN 20%, DLL TO TR BRIT YEL FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- GRY TO DK GRY, FRM, SMTH BLKY TO TR SPLINTY IP, LIMY IP

LS- GRY CRM LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS SCAT IP, IMBD CALC XLS IN 15%, SFT GRYISH WHT CHLK 50%, IMBD SHALE IN 5%, DLL TO TR BRIT YEL FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- GRY TO DK GRY, FRM, SMTH BLKY

HOWARD @ 2918' -934'

LS- GRY CRM LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IN 10%, SFT GRYISH WHT CHLK 20%, IMBD SHALE IN 10%, DLL TO TR BRIT YEL FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- GRY TO DK GRY, FRM TO SLI TR SFT, SMTH BLKY

LS- CRM LT TN TO TN, HD DNS TO BRITT, MD XLN, REXLN MTRX THRU, SLI TR SUCRO TXT, IMBD FOSS FRAGS IP, IMBD CALC XLS IN 20%, SFT WHT CHLK 5%, DLL TO TR BRIT YEL FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

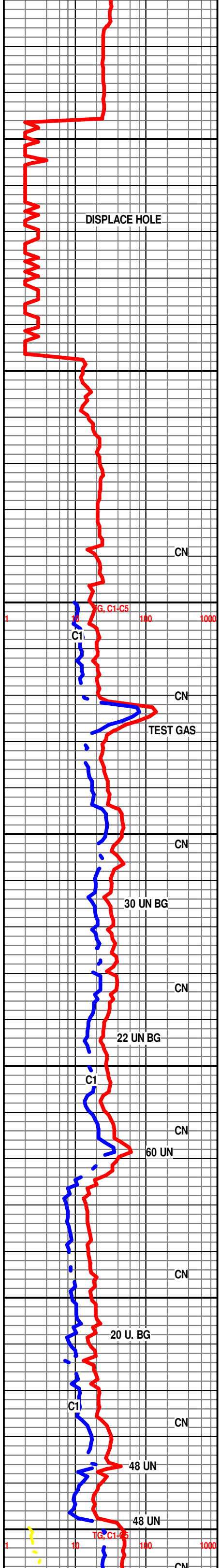
SEVERY 2969' - 985'

SH- GRY TO DK GRY, FRM, SMTH BLKY SLI TR SPLINTY, V/SLI TR DISS PYR

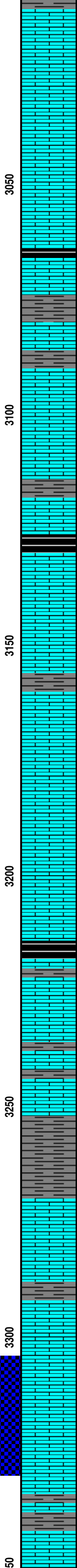
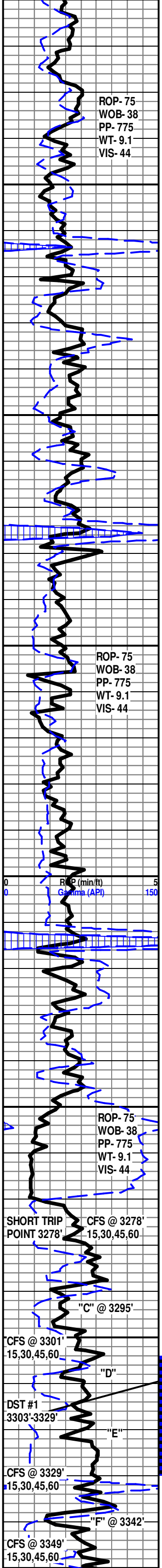
TOPEKA 2984' - 1000'

2995' LS- CRM LT TN TO TN, HD DNS TO BRITT, MD XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IN 25%, SLI TR SFT WHT CHLK 5%, DLL TO TR BRIT YEL FLO, V/PR PP POR IN 20%, GD FLUSH CUT THRU, TO GD STRONG MLKY BLUE CUT IN 20%, PR OIL ODOR

SH- GRY TO DK GRY, FRM, SMTH SPLINTY



12:01 AM 5/11/2011 PJ



LS- CRM LT TN TO TN, HD DNS TO BRITT, MD XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IN 15%, DLL TO BRIT YEL FLO, V/PR PP POR IN 30%, FR FLUSH CUT THRU, TO NO STREAM CUT, NO OIL ODOR

LS- CRM LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX, SUCRO TXT SCAT THRU, IMBD FOSS FRAGS SCAT THRU, IMBD CALC XLS IN 50%, V/SLI TR SFT WHT CHLK 5%, DLL TO BRIT YEL FLO IN 40%, PR PP POR IN 30%, NO VIS CUT, NO VIS SHOW

SH- SOFT BLACK CARB SHALE

SH- GRY TO DK GRY, FRM TO TR SFT, SMTH SPLINTY

LE COMPTON 3085' -1101'

SH- GRY TO DK GRY, FRM, SMTH SPLINTY

LS- CRM LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, IMBD FOSS FRAGS SCAT THRU, IMBD CALC XLS SCAT THRU 50%, TR PYR IN 10%, DLL TO BRIT YEL FLO IN 50%, NO VIS POR, NO VIS SHOW

SH- GRY TO DK GRY, FRM, SMTH BLKY

SH- SOFT BLACK CARB SHALE

LS- CRM LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, IMBD FOSS FRAGS SCAT THRU, IMBD CALC XLS SCAT THRU 40%, TR PYR IN 15%, DLL TO BRIT YEL FLO IN 40%, NO VIS POR, NO VIS SHOW

SH- GRY TO DK GRY, FRM, SMTH BLKY

3165' LS- CRM LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, IMBD FOSS FRAGS SCAT THRU, IMBD CALC XLS SCAT THRU 50%, LIVE TARY OIL ON 15%, DEAD OIL STAIN IN 10% DLL TO BRIT YEL FLO IN 30%, PR PP POR IN 30%, INST FLUSH CUT THRU, TO GD STRONG MLKY BLUE STREAM CUT IN 30%, V/PR OIL ODOR

LS- CRM LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT THRU, IMBD FOSS FRAGS SCAT THRU, IMBD CALC XLS SCAT THRU 40%, DISS PYR IN 20%, DLL TO BRIT YEL FLO IN 40%, V/PR PP POR IN 20%, NO VIS CUT, NO VIS SHOW

SH- SOFT BLACK CARB SHALE

HEEBNER @ 3218' -1234'

LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS SCAT IP, IMBD CALC XLS SCAT THRU 20%, DLL TO BRIT YEL FLO IN 40%, PR PP POR IN 25%, NO VIS CUT, NO VIS SHOW

DOUGLAS @ 3252' -1268'

SH- GRY TO DK GRY, FRM, SMTH BLKY TO SPLINTY

LANSING @ 3270' -1286'

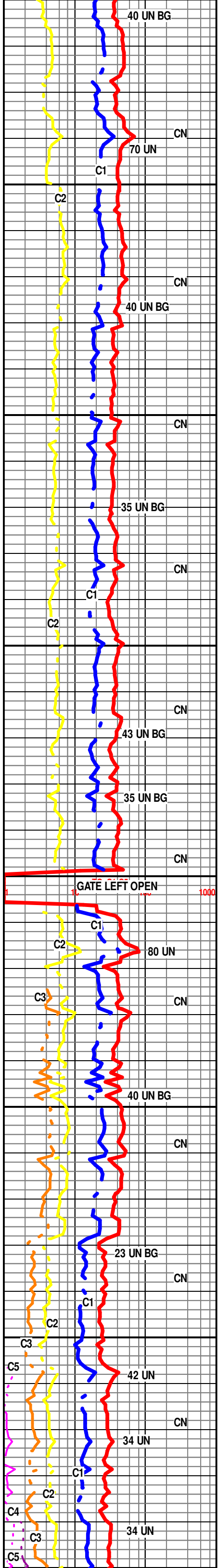
3272'-3280' LS- CRM LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT IP, IMBD FOSS FRAGS SCAT IP, TR FRM TO SFT WHT CHLK SCAT THRU, IMBD CALC XLS SCAT THRU 25%, DISS PYR IN 5%, DLL TO BRIT YEL FLO IN 30%, PR PP POR IN 35%, GD FLUSH CUT TO GD SLOW MLKY BLUE STREAM CUT IN 30%, NO OIL ODOR

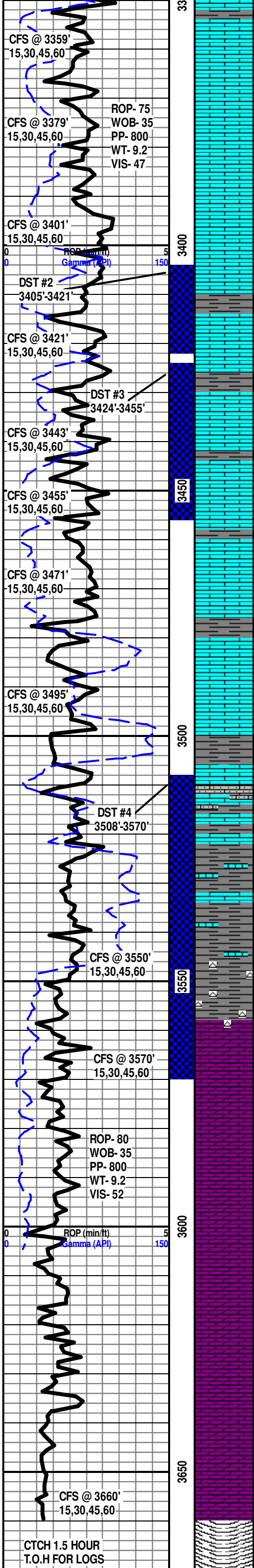
LS- OFF WHT TO CRM TO BUFF, HD DNS TO BRITT, MD XLN, SUCRO TO S/CHLKY TO CHLKY IP, IMBD FOSS FRAGS IP, IMBD SM CALC IP, DLL YEL FLO IN 30%, TR V/PR PP POR IN 10%, NO VIS CUT, NO VIS SHOW

3306'-3309' LS- CRM LT TN TN- HD DNS TO BRITT, F-MD-XLN RE-XLN IP, TR FOSS FRGS IP, SMLL IMBD MICRO OOL IP, TR IMBD SMLL CALC XLS IP, LT TN STN SCAT IN 50%, BRI YEL GLD FLO IN 60%, PR TO FR VIS INTER-XLN POR, PR PP POR IN 20%, TR MICRO VUG POR, FR FLSH TO FR TO TR GD SLO STRM CUT, GD OIL ODOR, LT STN ON DSH

3320'-3322' LS- OFF WHT CRM LT TN TN (STN IN 30%) HD DNS TO BRITT, F-MD-XLN, RE-XLN MTRX THRU, SUCRO IP, FOSS FRGS SCAT IP, SMLL IMBD CALC XLS IMBD THRU, TR FRM WHT CHLK IMBD IP, BRIT YEL GLD FLO IN 40%, FR INTER-XLN POR SCAT IP, GD SCAT VUG POR IP, EXCEL FLSH CUT IN 40%, GD STRNG MLKY BLU STRM CUT IN 30%, STRNG OIL ODOR

3342'-3346' LS- OFF WHT CRM LT TN TN (STN IN 35%) HD DNS TO BRITT, MD XLN, RE-XLN MTRX THRU, SUCRO TXT IP, FOSS FRGS SCAT IP, IMBD CALC XLS THRU, TR FRM WHT CHLK SACT IP, BRIT YEL GLD FLO IN 25%, FR INTR-XLN POR IN 20%, PR FLUSH CUT THRU, TO V/PR MLKY BLU WEAK STREAM CUT IN 10%, PR OIL ODOR





3354' LS- OFF WHT CRM LT TN TN (STN IN 25%) HD DNS TO BRITT, FN XLN, RE-XLN MTRX THRU, SUCRO TXT IP, FOSS FRGS SCAT IP, IMBD CALC XLS THRU, TR FRM WHT CHLK SACT IP, TR IMBD OOL SCAT THRU, TR DISS PYR SCAT IP, BRIT YEL GLD FLO IN 40%, FR INTR-XLN POR IN 15%, PR FLUSH CUT THRU, PR WEAK STREAM CUT IN 15%, FR OIL ODOR

3370' LS- OFF WHT CRM LT TN TN (STN IN 40%) HD DNS TO BRITT, FN XLN, RE-XLN MTRX THRU, FOSS FRGS SCAT IP, IMBD CALC XLS IP, TR FRM TO SFT WHT CHLK SCAT IP, TR IMBD OOL SCAT THRU, TR PYR IP, BRIT YEL GLD FLO IN 20%, PR PP POR IN 30%, FR FLUSH CUT THRU, PR WEAK STREAM CUT IN 10%, NO OIL ODOR

3390' LS- OFF WHT CRM LT TN TN (STN IN 40%) HD DNS TO BRITT, FN TO MD XLN, RE-XLN MTRX THRU, SUCRO TXT IP, FOSS FRGS SCAT IP, SMLL IMBD CALC XLS THRU, TR FRM WHT CHLK IP, BRIT YEL GLD FLO IN 30%, FR INTER-XLN POR SCAT IP, GD SCAT VUG POR IP, GD FLUSH CUT IN 40% TO GD STRONG STREAM CUT IN 30%, GD OIL ODOR

3414' LS- OFF WHT CRM LT TN TN (STN IN 30%) HD DNS TO BRITT, FN TO MD XLN, RE-XLN MTRX THRU, SUCRO TXT IP, FOSS FRGS SCAT IP, SMLL IMBD CALC XLS THRU, TR FRM WHT CHLK IP, BRIT YEL GLD FLO IN 20%, FR INTER-XLN POR SCAT IP, FR PP POR SCAT THRU, GD FLUSH CUT IN 30% TO GD STRONG STREAM CUT IN 20%, EXCEL OIL ODOR

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

3430' LS- WHT TO OFF WHT, CRM TN, (STN IN 20%), HD DNS TO BRITT, MD XLN, REXLN MTRX THRU, IMBD FOSS FRGS IP, FN IMBD CALC XLS SCAT IP, FRM WHT CHLK SCAT THRU, GLD TO BRIT YEL FLO IN 40%, PR INTR-XLN POR TO TR FR VUG POR, PR FLUSH CUT TO V/PR STREAM CUT IN 5%, GD OIL ODOR

3448' LS- WHT TO OFF WHT, CRM TN, (STN IN 30%), HD DNS TO BRITT, MD XLN, REXLN MTRX THRU, V/SLI TR SUCRO TXT SCAT THRU, IMBD CALC XLS SCAT THRU, TR FRM WHT CHLK SCAT IP, TR LIVE OIL IN 15%, GLD TO BRIT YEL FLO IN 45%, FR INTR-XLN POR TO TR GD PP POR, GD INST FLUSH CUT THRU, TO GD STRONG MLKY BLUE STREAM CUT IN 40%, GD OIL ODOR

3460'-3464' LS- WHT TO OFF WHT, CRM TN, (DK STN IN 60%), HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX THRU, TR SUCRO TXT SCAT THRU, IMBD CALC XLS SCAT THRU, TR IMBD OOL SCAT IP, TR LIVE OIL IN 50%, GLD TO BRIT YEL FLO IN 60%, FR INTR-XLN POR TO TR GD VUG POR TO SLI TR OOLMOLD POR, ECEL INST FLUSH CUT THRU, TO GD STRONG MLKY BLUE STREAM CUT THRU, ECEL OIL ODOR, DK BRN STAIN ON DISH

3481'-3485' LS- WHT TO OFF WHT, CRM TN, (STN IN 30%), HD DNS TO BRITT, MD XLN, REXLN MTRX THRU, IMBD CALC XLS SCAT IP, TR SFT WHT CHLK SCAT THRU, GLD TO BRIT YEL FLO IN 35%, TR FR PP POR, FR FLUSH CUT THRU, TO V/PR WEAK MLKY BLUE STREAM CUT IN 5%, PR OIL ODOR

BASE KANSAS CITY @ 3499' -1515'

SH- GRY TO DK GRY, SFT, BLKY

3510' LS- LT CRM, TN, DK TARY OIL STAIN IN 60%, HD DNS TO BRITT, FN XLN TO SUCRO REXLN MTRX THRU, V/FN TO FN ABDT LIME GRN THRU, W/IMBD V/FN S/RND TO RND CLR QURTZ GRNS IP, DLL GLD FLO IN 50%, FR PP POR TO TR GD INTR-XLN POR, ECEL INST FLUSH CUT THRU TO FR SLOW STREAM MLKY BLUE CUT IN 50%, NO OIL ODOR, DK TN OIL STAIN ON DISH

SH- GRY TO DK GRY TO REDSH BRN, SFT GUMMY, BLKY, V/CALC THRU

SH- GRY TO DK GRY TO REDSH BRN, SFT GUMMY, BLKY LIMMY THRU

SH- GRY TO DK GRY TO REDSH BRN, SFT GUMMY, BLKY LIMMY THRU, WHT CHRT SCAT THRU

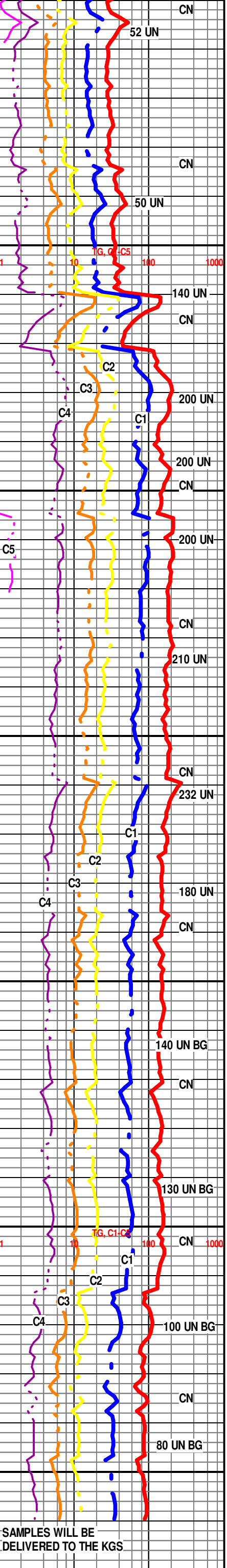
ARBUCKLE @ 3558' - 1574'

3558'-3566' DOL- OFF WHT LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, SUCRO TXT IP, IMBD ABDT V/FN TO FN ANG DOL GRNS, SLI TR CHLK, SLI TR WHT CHRT SCAT IP, DLL GLD FLO THRU TO SCAT BRIT GLD FLO IN 20%, FR TO GD INTR-XLN POR IN 50%, EXCL INST FLUSH CUT THRU, TO EXCL STRONG MLKY BLUE CUT THRU, ECEL OIL ODOR, DK BRN STAIN ON DISH

3578' DOL- OFF WHT LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, SUCRO TXT IP, IMBD ABDT MD ANG DOL GRNS, SLI TR CHLK, DLL GLD FLO THRU, FR TO GD INTR-XLN POR IN 50%, FR FLUSH CUT THRU, TO GD STRONG MLKY BLUE CUT 30%, GD OIL ODOR, BRN STAIN ON DISH

3607' DOL- WHT TO OFF WHT, HD DNS TO BRITT, MD XLN, REXLN MTRX THRU, SUCRO TXT IP, IMBD ABDT MD ANG DOL GRNS, DLL GLD FLO THRU, FR INTR-XLN POR IN 20%, PR FLUSH CUT THRU, TO PR WEAK MLKY BLUE CUT 10%, GD OIL ODOR

DOL- WHT TO OFF WHT, HD DNS TO BRITT, MD XLN, REXLN MTRX THRU, SUCRO TXT IP, IMBD ABDT MD ANG DOL GRNS, DLL GLD FLO THRU, FR INTR-XLN POR IN 15%, NO VIS CUT NO VIS SHOW



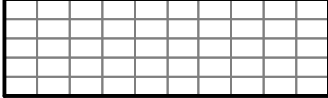
RTD 3660' @ 9:30 AM 05/15/2011

LOGS BY WEATHERFORD

LIBERAL KANSAS

SAMPLES WILL BE DELIVERED TO THE KGS

CTCH 1.5 HOUR T.O.H FOR LOGS



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THANK YOU FOR CHOOSING EARTHTECH

LOG COMPLETED BY
JASON MARSHALL

