



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



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

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

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

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

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

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

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

Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	Hoss 1-22
Doc ID	1052818

All Electric Logs Run

DIL
MICRO
POR
SONIC

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



phone: 316-337-6200
fax: 316-337-6211
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

March 24, 2011

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

Re: ACO1
API 15-165-21911-00-00
Hoss 1-22
SE/4 Sec.22-16S-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: 11/30/2010
 Invoice # 4461

P.O.#:
 Due Date: 12/30/2010
 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:
 HOSS 1-22

DRLG COMP W/O LOE
 AFE # _____
 ACCT # 8200-138
 APPROVED BY [Signature]

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 693.97	No	Baffle Plate Aluminum, 8 5/8"	1	\$91.20	Yes
Common-Class A	400	\$ 4,945.07	Yes				
8 5/8" Basket	3	\$ 960.64	Yes				
Bulk Truck Matl-Material Service Charge	422	\$ 855.25	No				
Calcium Chloride	14	\$ 534.27	Yes				
Pump Truck Mileage-Job to Nearest Camp	31	\$ 313.51	No				
Flo Seal	100	\$ 202.67	Yes				
8 5/8" Centralizer	3	\$ 194.56	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	31	\$ 183.45	No				
Premium Gel (Bentonite)	8	\$ 131.98	Yes				
8 5/8" Top Rubber Plug	1	\$ 107.41	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 9,213.98
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,382.10)

SubTotal for Taxable Items: \$ 6,092.62
 SubTotal for Non-Taxable Items: \$ 1,149.38

6.30% Rush County Sales Tax

Total: \$ 7,831.88
 Tax: \$ 383.84

Thank You For Your Business!

Amount Due: \$ 8,215.72
Applied Payments:
Balance Due: \$ 8,215.72

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. 4461

Date	11-29-10	Sec.	22	Twp.	16	Range	16	County	Rush	State	Kansas	On Location		Finish	2:30pm
Lease	Pros	Well No.	1-22		Location		Galatia 7W 15								
Contractor	Discovery Drilling							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.		1049		Charge To								
Csg.	88 23/16		Depth		1049		Sammuel Gary Jr. & Associates								
Tbg. Size			Depth				Street								
Tool			Depth				City				State				
Cement Left in Csg.	30'		Shoe Joint		30'		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		(4 1/2 Bbl)		Cement Amount Ordered				400 Common 1/4 Flowseal				

EQUIPMENT

Pumptrk	5	No.	Cementer	Steve
			Helper	
Bulktrk	12	No.	Driver	Brandon
			Driver	
Bulktrk		No.	Driver	Sciens
			Driver	

3000 2660
Common 400
Poz. Mix
Gel. 8

JOB SERVICES & REMARKS

Remarks:	Calcium 14
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal 100#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
	CFL-117 or CD110 CAF 38
	Sand
	Handling 422
	Mileage

FLOAT EQUIPMENT

Guide Shoe
Centralizer 3
Baskets 3
AFU Inserts
Float Shoe
Latch Down
Baffle Plate
88 Rubber Plug
Pumptrk Charge
Mileage

Signature
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: 12/6/2010
 Invoice # 4429
 P.O.#:
 Due Date: 1/5/2011
 Division: Russell

Invoice

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

DRLG COMP W/O LOE GG

Account	8000-138
Well/Prospect	HOSS 1-22
Deck	
AFB	
Approval	<i>[Signature]</i>
Description	

Reference:
 HOSS 1-22

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	126	\$ 1,622.60	Yes				
Bulk Truck Matl-Material Service Charge	217	\$ 458.11	No				
Pump Truck Mileage-Job to Nearest Camp	31	\$ 326.57	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	31	\$ 191.10	No				
POZ Mix-Standard	34	\$ 165.09	Yes				
Premium Gel (Bentonite)	7	\$ 120.29	Yes				
Flo Seal	53	\$ 111.89	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$ 3,959.49
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (593.92)
<hr/>		
	SubTotal for Taxable Items:	\$ 1,716.89
	SubTotal for Non-Taxable Items:	\$ 829.41
<hr/>		
	Total:	\$ 3,365.57
	Tax:	\$ 108.16
<hr/>		
	Amount Due:	\$ 3,473.73
	Applied Payments:	
	Balance Due:	\$ 3,473.73

6.30% Rush County Sales Tax

Thank You For Your Business!

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

DEC 16 2010

SAMUEL GARY JR.
 & ASSOCIATES, INC.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 4429

Date	12.5-10	Sec.	22	Twp.	16	Range	16	County	Rush	State	KS	On Location		Finish	9:00 p.m.								
Lease	Hoss	Well No.	1-22	Location Galena 7 1/2 W N 10 T 10																			
Contractor	D. Siavary #2							Owner															
Type Job	Rotary Plug							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.															
Hole Size	7 7/8							T.D. 3620															
Csg.								Depth															
Tbg. Size								Depth															
Tool								Depth															
Cement Left in Csg.								Shoe Joint															
Meas Line								Displace															
												Charge To				Sam Lund J & Associates							
												Street				City				State			
												The above was done to satisfaction and supervision of owner agent or contractor.											
												Cement Amount Ordered				210 60/100 40/60 1/2 1/2 1/2							

EQUIPMENT

Pumptrk	9	No.	Cement Helper	Paul	Common	126
Bulktrk		No.	Driver		Poz. Mix	34
Bulktrk	12	No.	Driver	Brian	Gel.	7

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole 305K	Hulls
Mouse Hole 205K	Salt
Centralizers	Flowseal 53#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
1st 3500 505K	CFL-117 or CD110 CAF 38
1080 505K	Sand
460 405K	Handling 217
60 205K	Mileage

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge Plug
Mileage 31

Tax
Discount
Total Charge

X Signature Julie Amador



DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr. & Assoc.inc.**

1515 Wynkoop
Suite 700
Denver Co. 80202

ATTN: Neil Sharp

22-16s-16w Rush Co.

Hoss 1-22

Start Date: 2010.12.02 @ 21:47:05

End Date: 2010.12.03 @ 05:34:09

Job Ticket #: 039993 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

Sam Gary Jr. & Assoc. inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039993

DST#: 1

Test Start: 2010.12.02 @ 21:47:05

GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:37:10

Time Test Ended: 05:34:09

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Interval: 3300.00 ft (KB) To 3336.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 3336.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352 Outside

Press @ RunDepth: 27.62 psig @ 3301.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.12.02

End Date:

2010.12.03

Last Calib.:

2010.12.03

Start Time: 21:47:05

End Time:

05:34:10

Time On Btm:

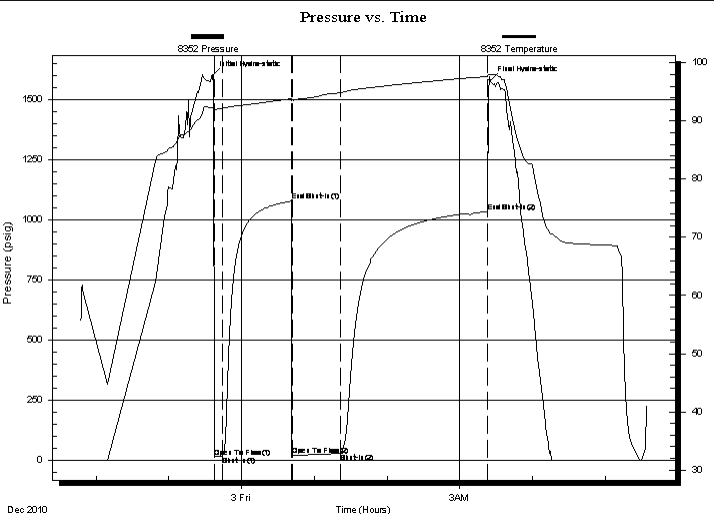
2010.12.02 @ 23:36:10

Time Off Btm:

2010.12.03 @ 03:24:50

TEST COMMENT: IF: Weak, 1 inch
IS: No Return
FF: Weak, 1inch
FS: No Return

PRESSURE SUMMARY



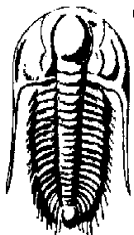
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.79	92.27	Initial Hydro-static
1	14.34	91.79	Open To Flow (1)
9	18.16	92.23	Shut-In(1)
66	1077.98	93.86	End Shut-In(1)
66	18.95	93.51	Open To Flow (2)
106	27.62	94.90	Shut-In(2)
227	1034.83	97.69	End Shut-In(2)
229	1580.73	97.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud with very slight oil specks	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary Jr. & Assoc. Inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039993

DST#: 1

Test Start: 2010.12.02 @ 21:47:05

GENERAL INFORMATION:

Formation: **LKC "F-G"**

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

Time Tool Opened: 23:37:10

Time Test Ended: 05:34:09

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Interval: 3300.00 ft (KB) To 3336.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 3336.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8017

Inside

Press @ Run Depth: psig @ 3301.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.12.02

End Date: 2010.12.03

Last Calib.: 2010.12.03

Start Time: 21:47:05

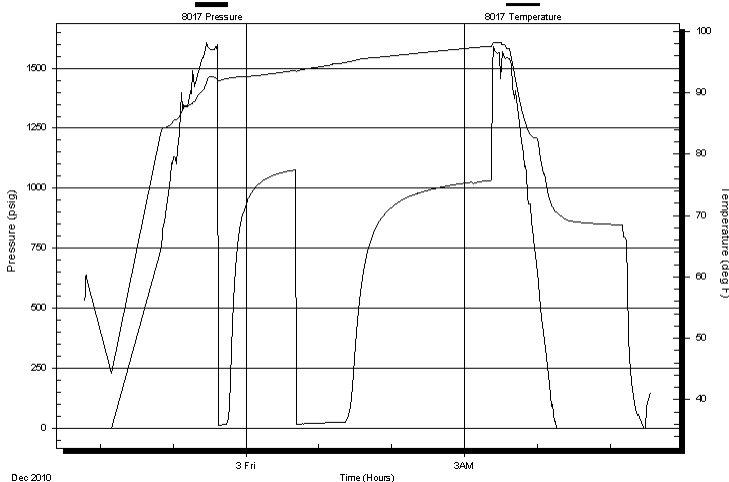
End Time: 05:33:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak, 1 inch
IS: No Return
FF: Weak, 1inch
FS: No Return

Pressure vs. Time



PRESSURE SUMMARY

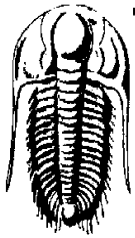
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud with very slight oil specks	0.05

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr. & Assoc. inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039993 **DST#: 1**
Test Start: 2010.12.02 @ 21:47:05

GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:37:10

Time Test Ended: 05:34:09

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Interval: 3300.00 ft (KB) To 3336.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 3336.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8650 Fluid

Press @ Run Depth: psig @ 3266.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.12.02

End Date: 2010.12.03

Last Calib.: 2010.12.03

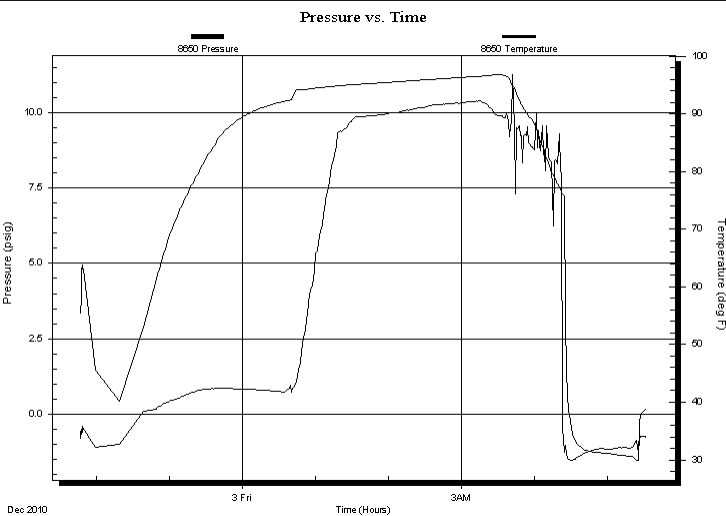
Start Time: 21:47:01

End Time: 05:32:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak, 1 inch
IS: No Return
FF: Weak, 1inch
FS: No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w ith very slight oil specks	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039993

DST#: 1

Test Start: 2010.12.02 @ 21:47:05

Tool Information

Drill Pipe:	Length: 3266.00 ft	Diameter: 3.80 inches	Volume: 45.81 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: 30.81 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 45.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.81 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3300.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	71.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3266.00	
Recorder	0.00	8650	Fluid	3266.00	
Blank Spacing	4.00			3270.00	
Shut In Tool	5.00			3275.00	
Sampler	3.00			3278.00	
Hydraulic tool	5.00			3283.00	
Jars	5.00			3288.00	
Safety Joint	3.00			3291.00	
Packer	5.00			3296.00	35.00 Bottom Of Top Packer
Packer	4.00			3300.00	
Stubb	1.00			3301.00	
Recorder	0.00	8017	Inside	3301.00	
Recorder	0.00	8352	Outside	3301.00	
Perforations	32.00			3333.00	
Bullnose	3.00			3336.00	36.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039993

DST#: 1

Test Start: 2010.12.02 @ 21:47:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud with very slight oil specks	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

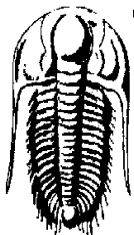
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Recovery- Gas=.1/20th CF Mud=800 ML Pressure=450LBS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039993

DST#: 1

Test Start: 2010.12.02 @ 21:47:05

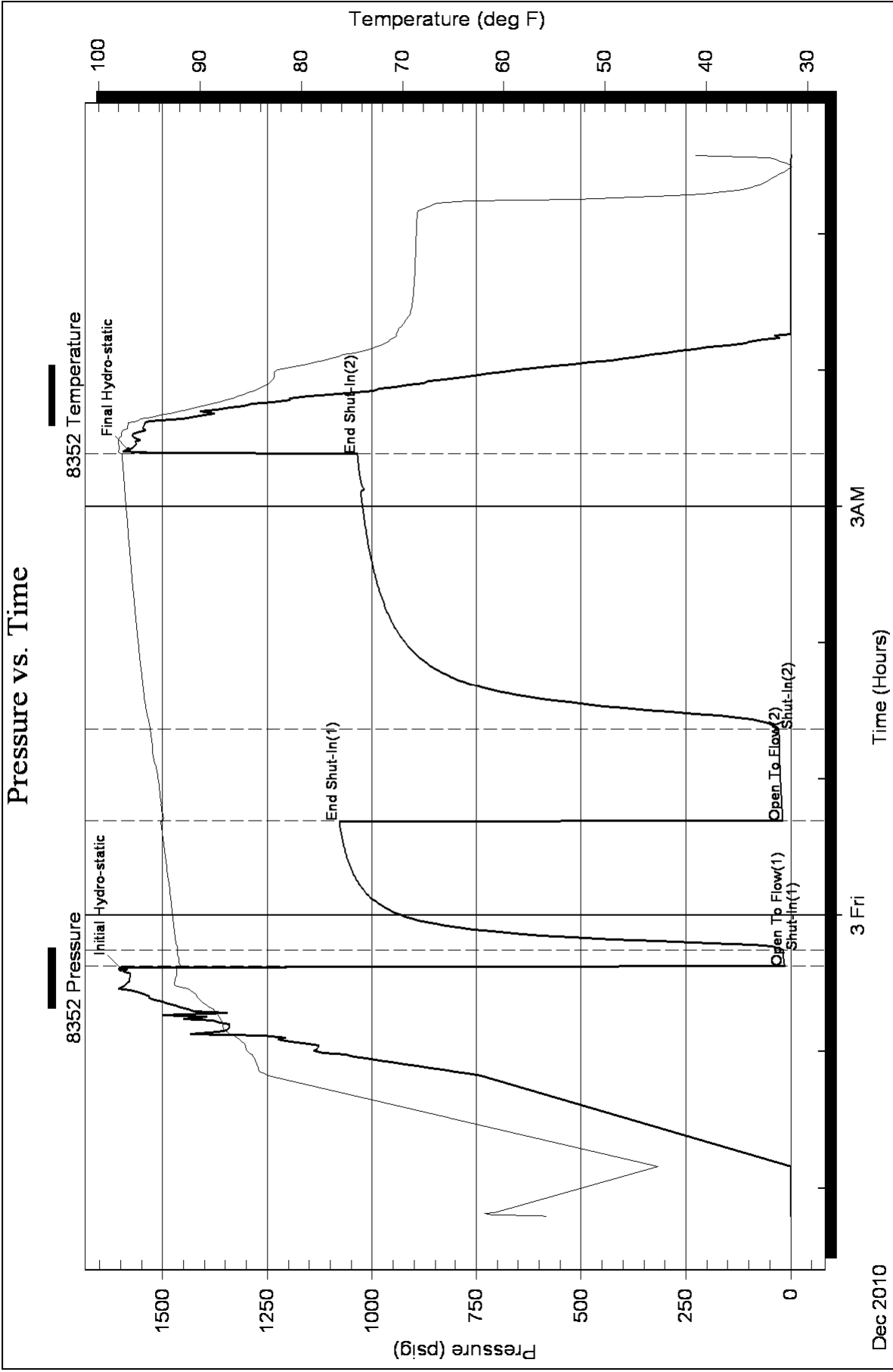
Gas Rates Information

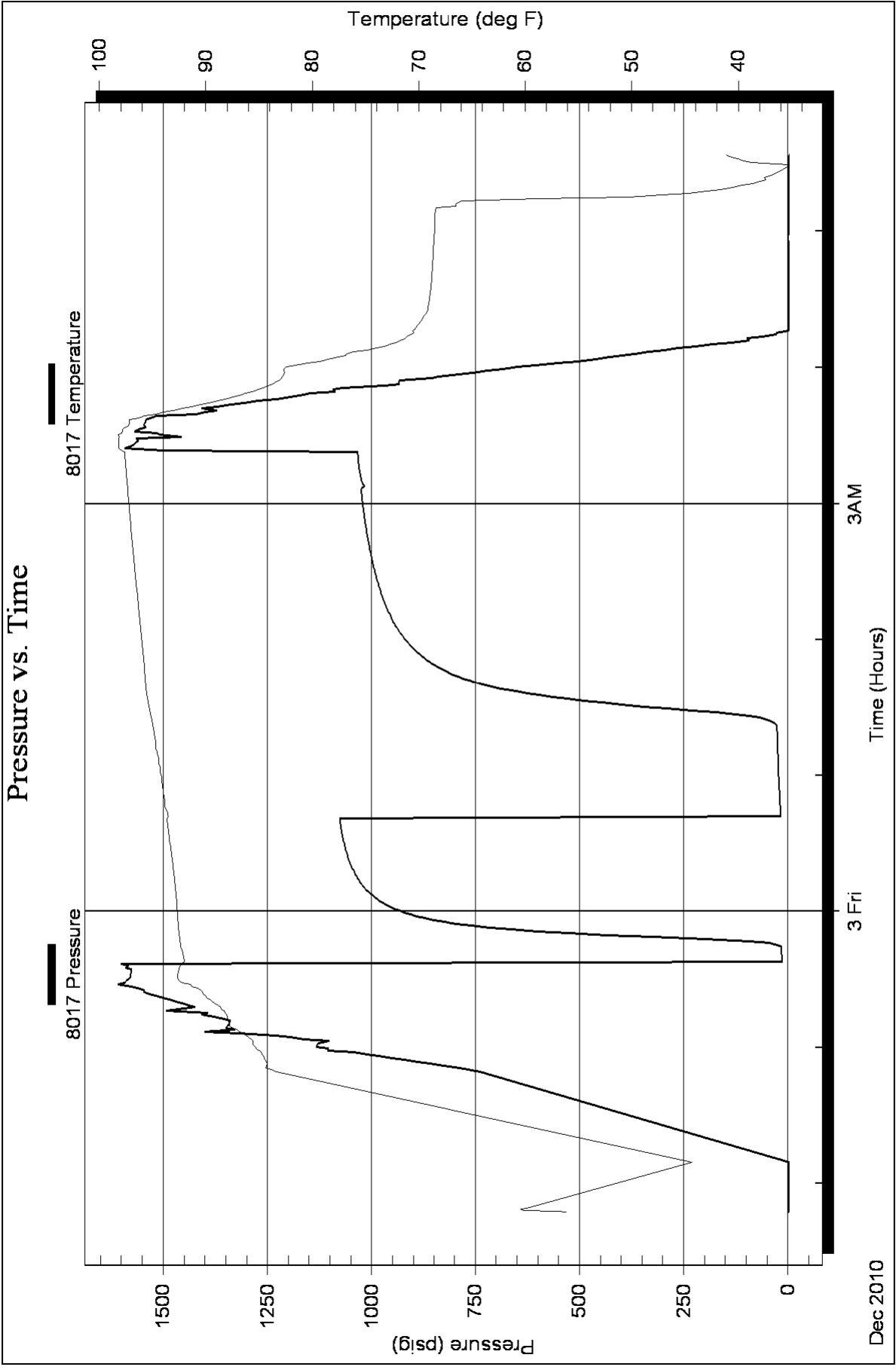
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

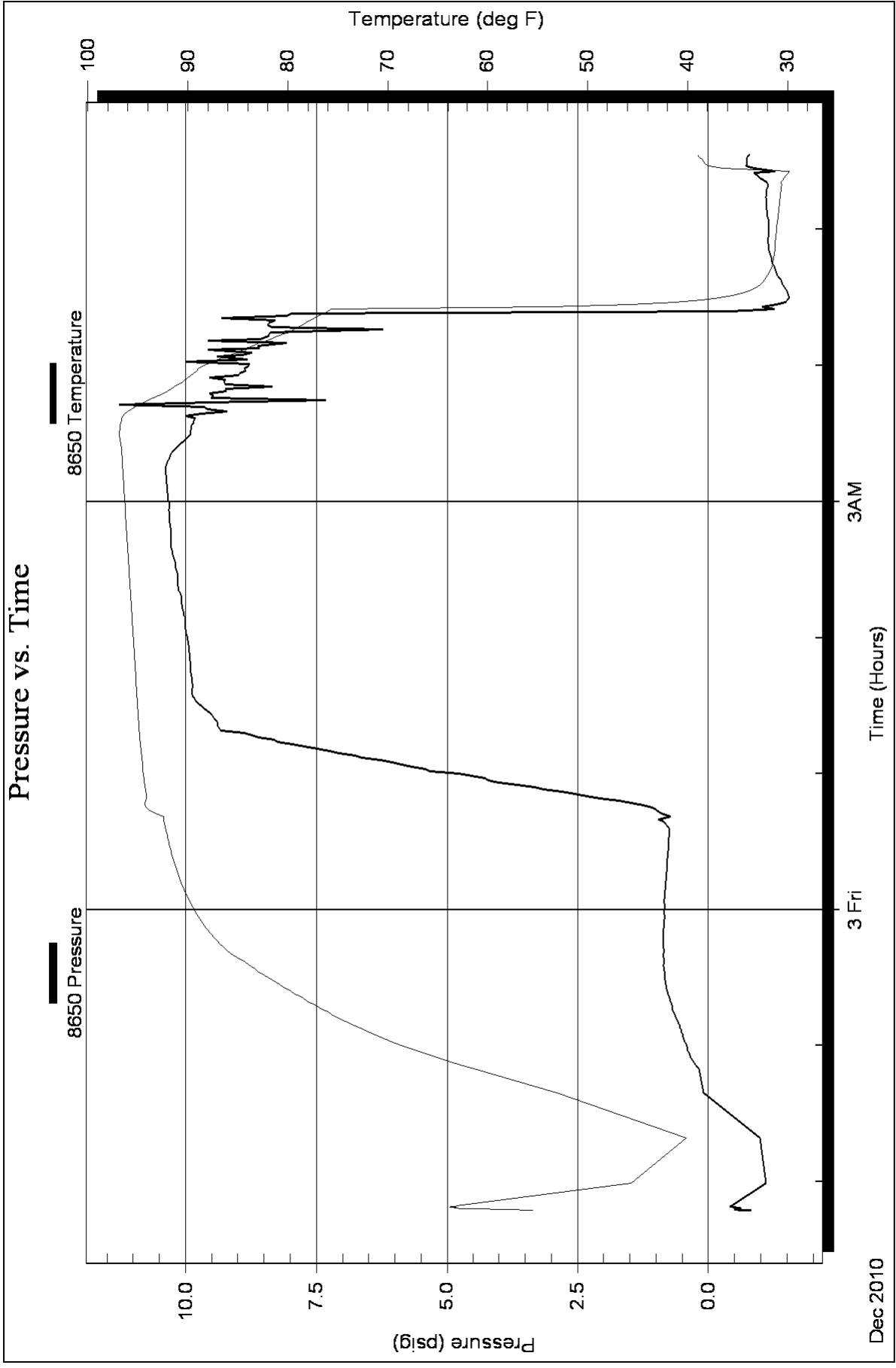
Gas Rates Table

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

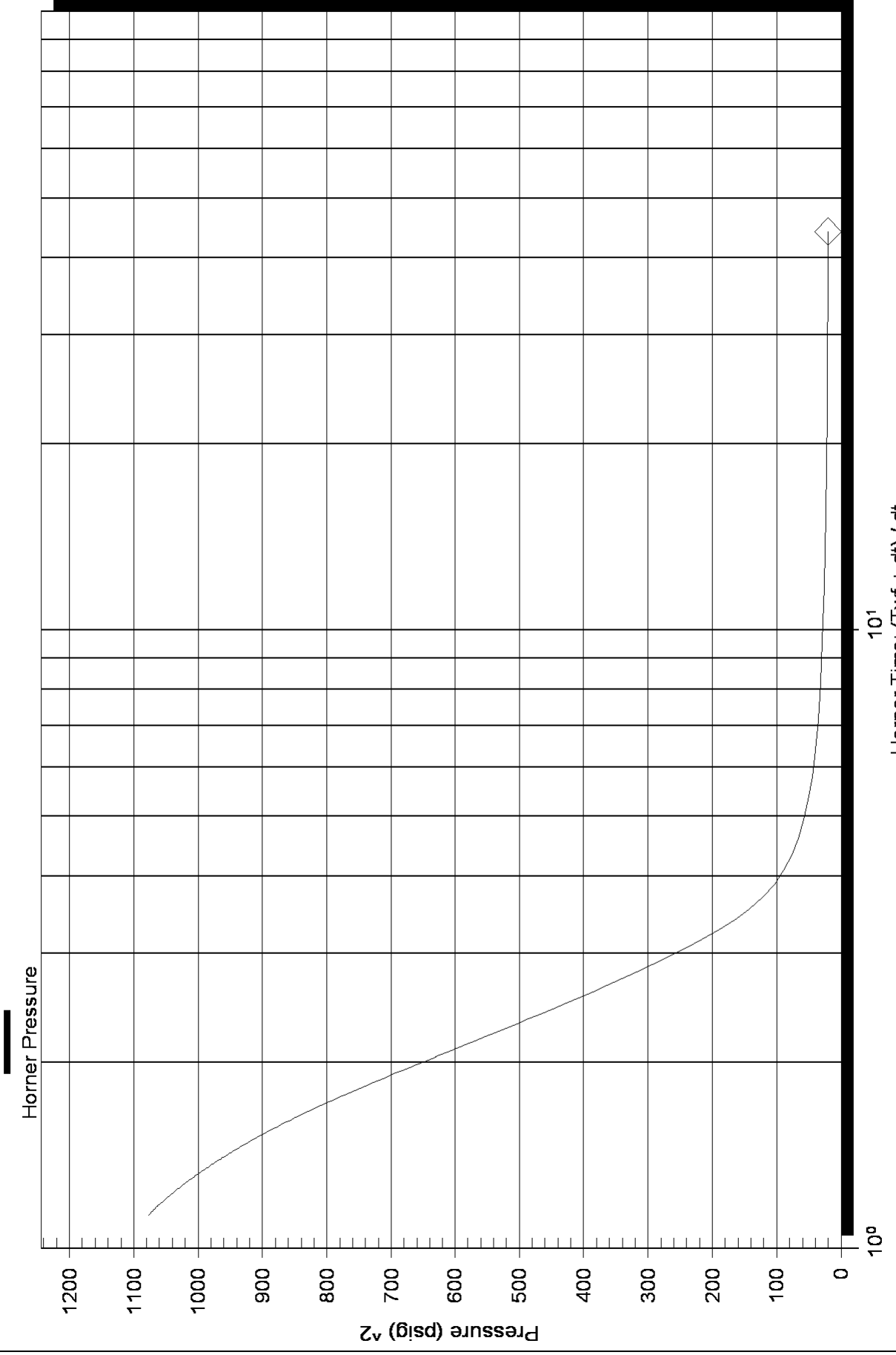
Pressure vs. Time



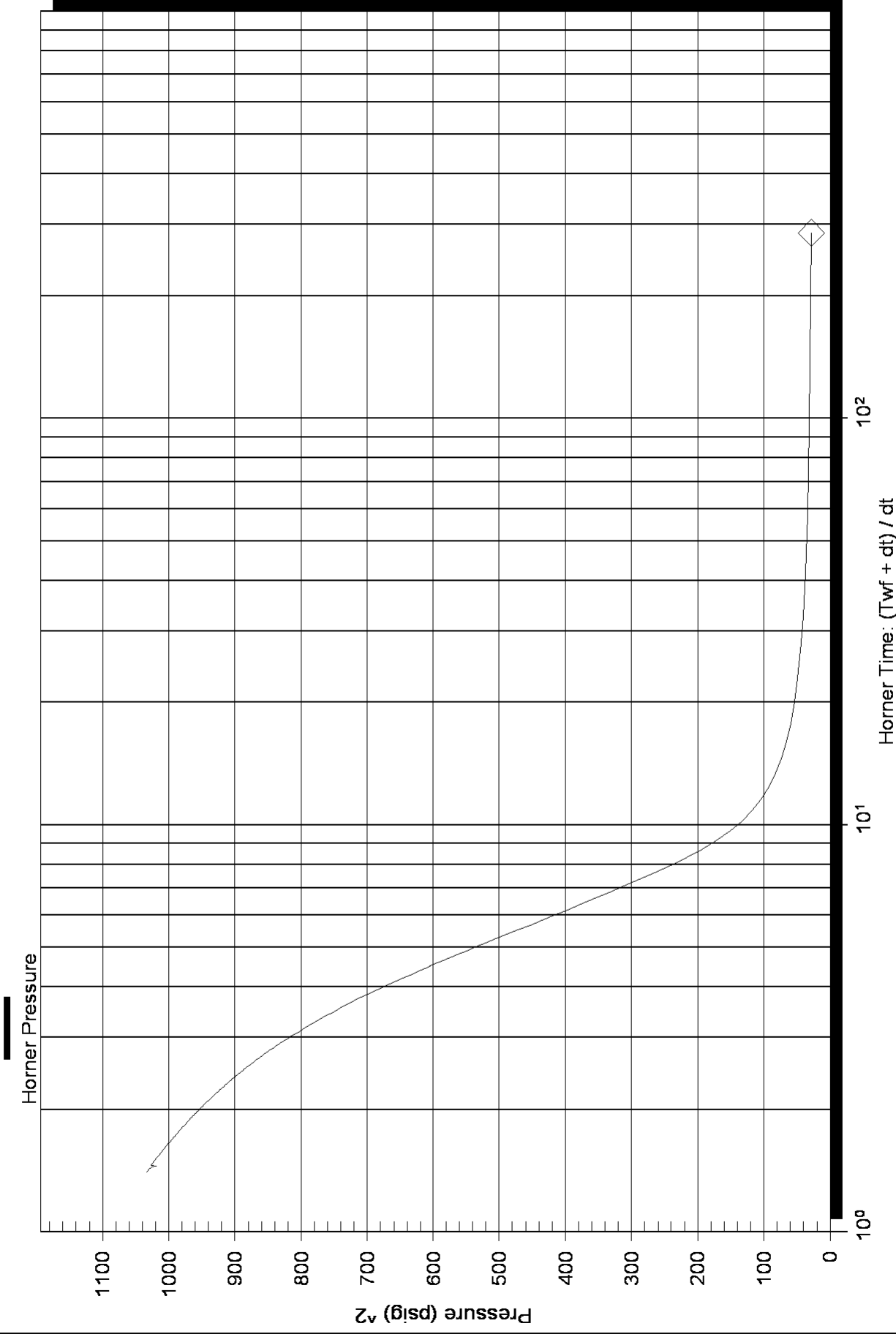




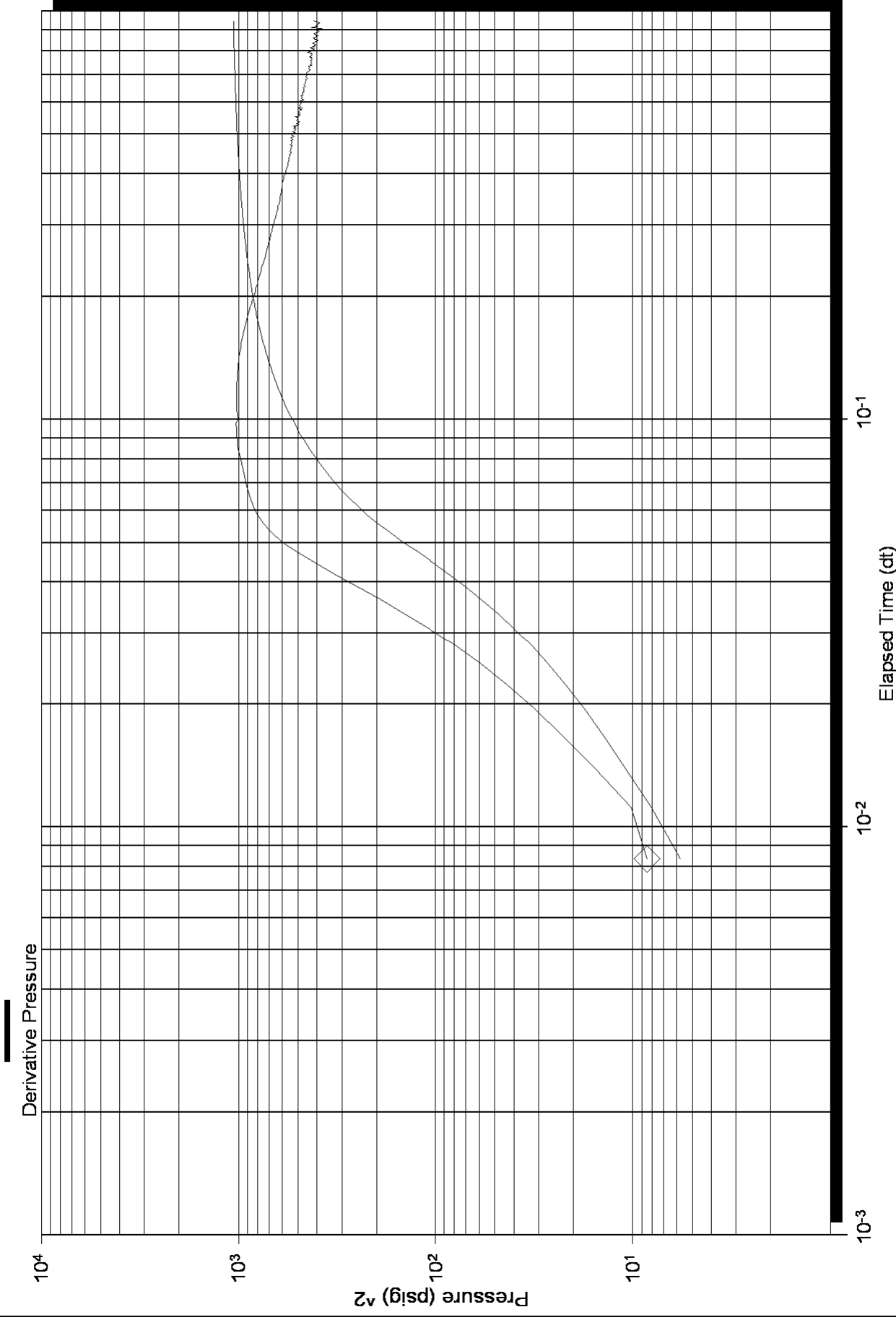
Homer Plot



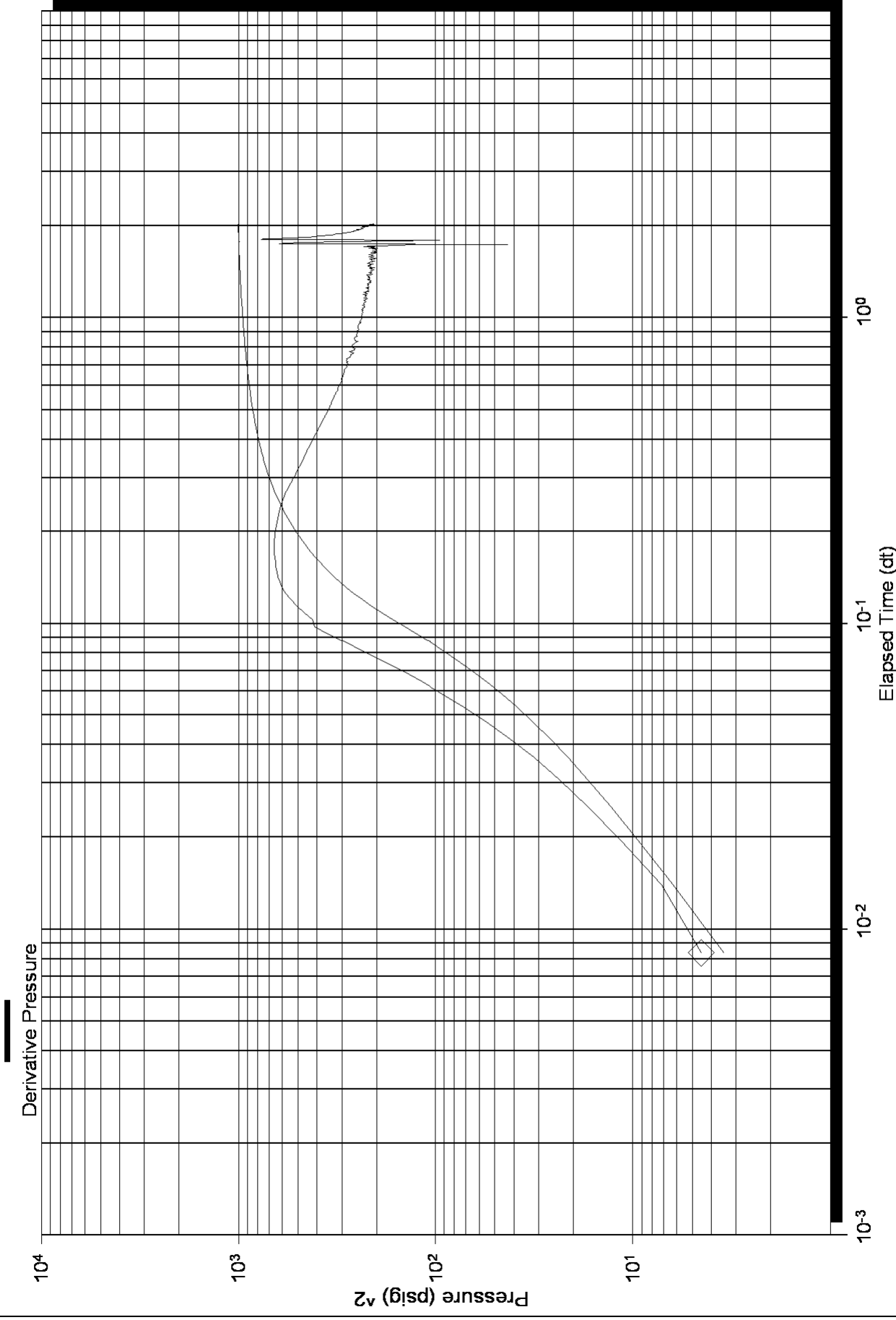
Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Log-Derivative





DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr. & Assoc.inc.**

1515 Wynkoop
Suite 700
Denver Co. 80202

ATTN: Neil Sharp

22-16s-16w Rush Co.

Hoss 1-22

Start Date: 2010.12.03 @ 17:51:05

End Date: 2010.12.04 @ 01:20:39

Job Ticket #: 039994 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

Sam Gary Jr. & Assoc. inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039994

DST#: 2

Test Start: 2010.12.03 @ 17:51:05

GENERAL INFORMATION:

Formation: **LKC"H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:49:20

Time Test Ended: 01:20:39

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Interval: 3364.00 ft (KB) To 3411.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 3411.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 30.85 psig @ 3371.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.12.03

End Date:

2010.12.04

Last Calib.:

2010.12.04

Start Time:

17:51:05

End Time:

01:20:40

Time On Btm:

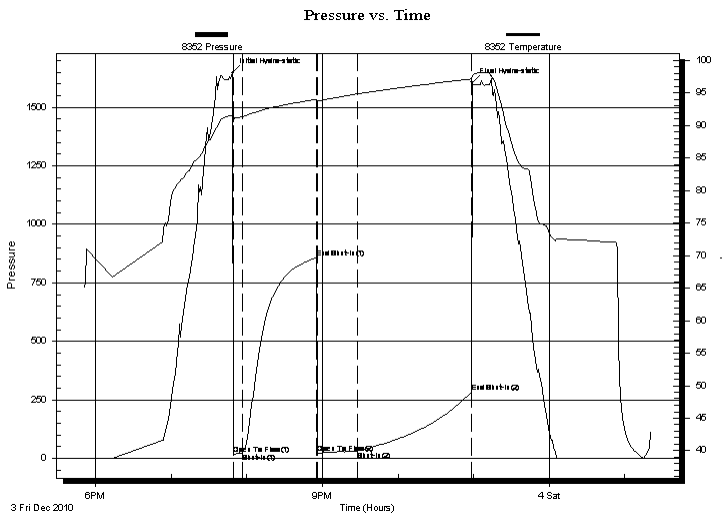
2010.12.03 @ 19:48:50

Time Off Btm:

2010.12.03 @ 22:58:50

TEST COMMENT: IF: Weak, half inch blow .
IS: No Return
FF: Weak, Surface blow
FS: No Return

PRESSURE SUMMARY



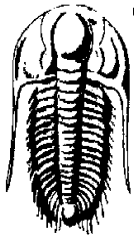
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1647.53	91.47	Initial Hydro-static
1	16.49	90.51	Open To Flow (1)
8	21.94	91.35	Shut-In(1)
67	856.93	94.02	End Shut-In(1)
67	22.42	93.75	Open To Flow (2)
99	30.85	94.83	Shut-In(2)
190	282.81	97.16	End Shut-In(2)
190	1606.53	97.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w ith slight oil specks	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr. & Assoc. inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039994

DST#: 2

Test Start: 2010.12.03 @ 17:51:05

GENERAL INFORMATION:

Formation: **LKC"H"**

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

Time Tool Opened: 19:49:20

Time Test Ended: 01:20:39

Interval: 3364.00 ft (KB) To 3411.00 ft (KB) (TVD)

Total Depth: **3411.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole**

Tester: **Andy Carreira**

Unit No: **31**

Reference Elevations: **1939.00 ft (KB)**

1931.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8017

Inside

Press @ Run Depth: **psig @ 3371.00 ft (KB)**

Start Date: **2010.12.03**

End Date:

2010.12.04

Capacity: **8000.00 psig**

Last Calib.:

2010.12.04

Start Time:

17:51:05

End Time:

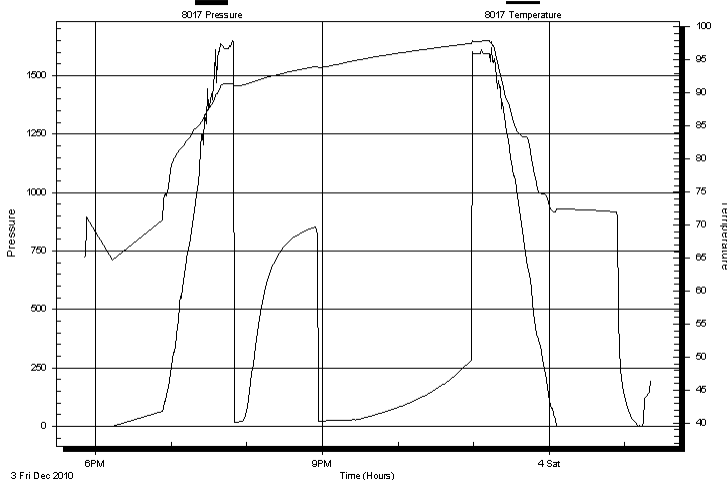
01:20:40

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak, half inch blow .
IS: No Return
FF: Weak, Surface blow
FS: No Return

Pressure vs. Time



PRESSURE SUMMARY

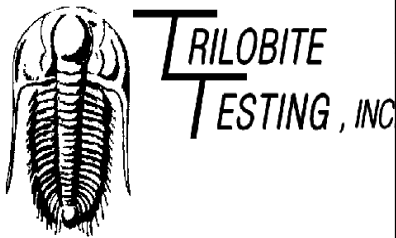
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w ith slight oil specks	0.02

Gas Rates

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



DRILL STEM TEST REPORT

Sam Gary Jr. & Assoc. inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

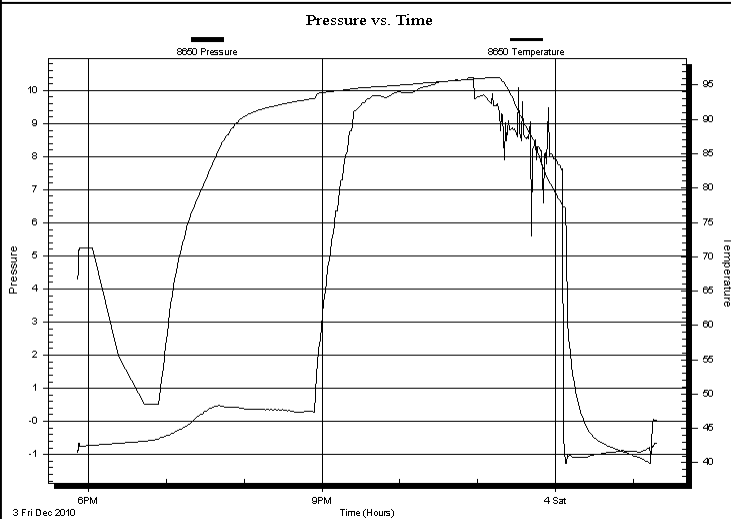
Job Ticket: 039994 **DST#: 2**
Test Start: 2010.12.03 @ 17:51:05

GENERAL INFORMATION:

Formation: **LKC"H"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole
Time Tool Opened: 19:49:20 Tester: Andy Carreira
Time Test Ended: 01:20:39 Unit No: 31
Interval: 3364.00 ft (KB) To 3411.00 ft (KB) (TVD) Reference Elevations: 1939.00 ft (KB)
Total Depth: 3411.00 ft (KB) (TVD) 1931.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8650 Fluid
Press@RunDepth: psig @ 3330.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.12.03 End Date: 2010.12.04 Last Calib.: 2010.12.04
Start Time: 17:51:01 End Time: 01:19:00 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak, half inch blow .
IS: No Return
FF: Weak, Surface blow
FS: No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w ith slight oil specks	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039994

DST#: 2

Test Start: 2010.12.03 @ 17:51:05

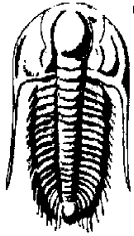
Tool Information

Drill Pipe:	Length: 3330.00 ft	Diameter: 3.80 inches	Volume: 46.71 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: 30.81 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 46.86 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.81 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3364.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.00 ft				
Tool Length:	82.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3330.00	
Recorder	0.00	8650	Fluid	3330.00	
Blank Spacing	4.00			3334.00	
Shut In Tool	5.00			3339.00	
Sampler	3.00			3342.00	
Hydraulic tool	5.00			3347.00	
Jars	5.00			3352.00	
Safety Joint	3.00			3355.00	
Packer	5.00			3360.00	35.00 Bottom Of Top Packer
Packer	4.00			3364.00	
Stubb	1.00			3365.00	
Perforations	5.00			3370.00	
Change Over Sub	1.00			3371.00	
Recorder	0.00	8017	Inside	3371.00	
Recorder	0.00	8352	Outside	3371.00	
Drill Pipe	31.00			3402.00	
Change Over Sub	1.00			3403.00	
Perforations	5.00			3408.00	
Bullnose	3.00			3411.00	47.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039994

DST#: 2

Test Start: 2010.12.03 @ 17:51:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w ith slight oil specks	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

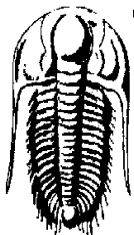
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Recovery= Gas=1/20th CF Oil=specks Mud=1200ML
Pressure= 250 LBS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039994

DST#: 2

Test Start: 2010.12.03 @ 17:51:05

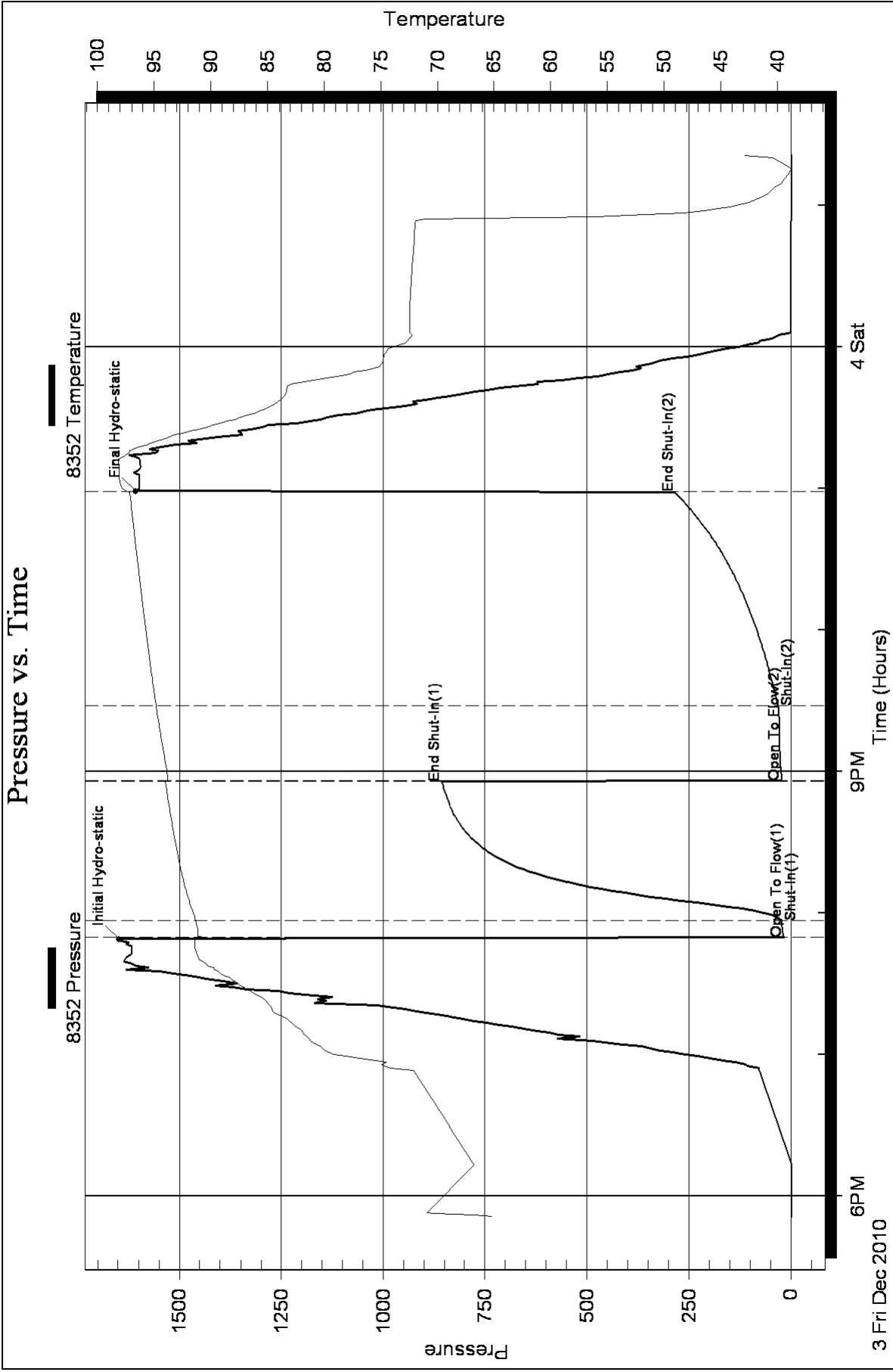
Gas Rates Information

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

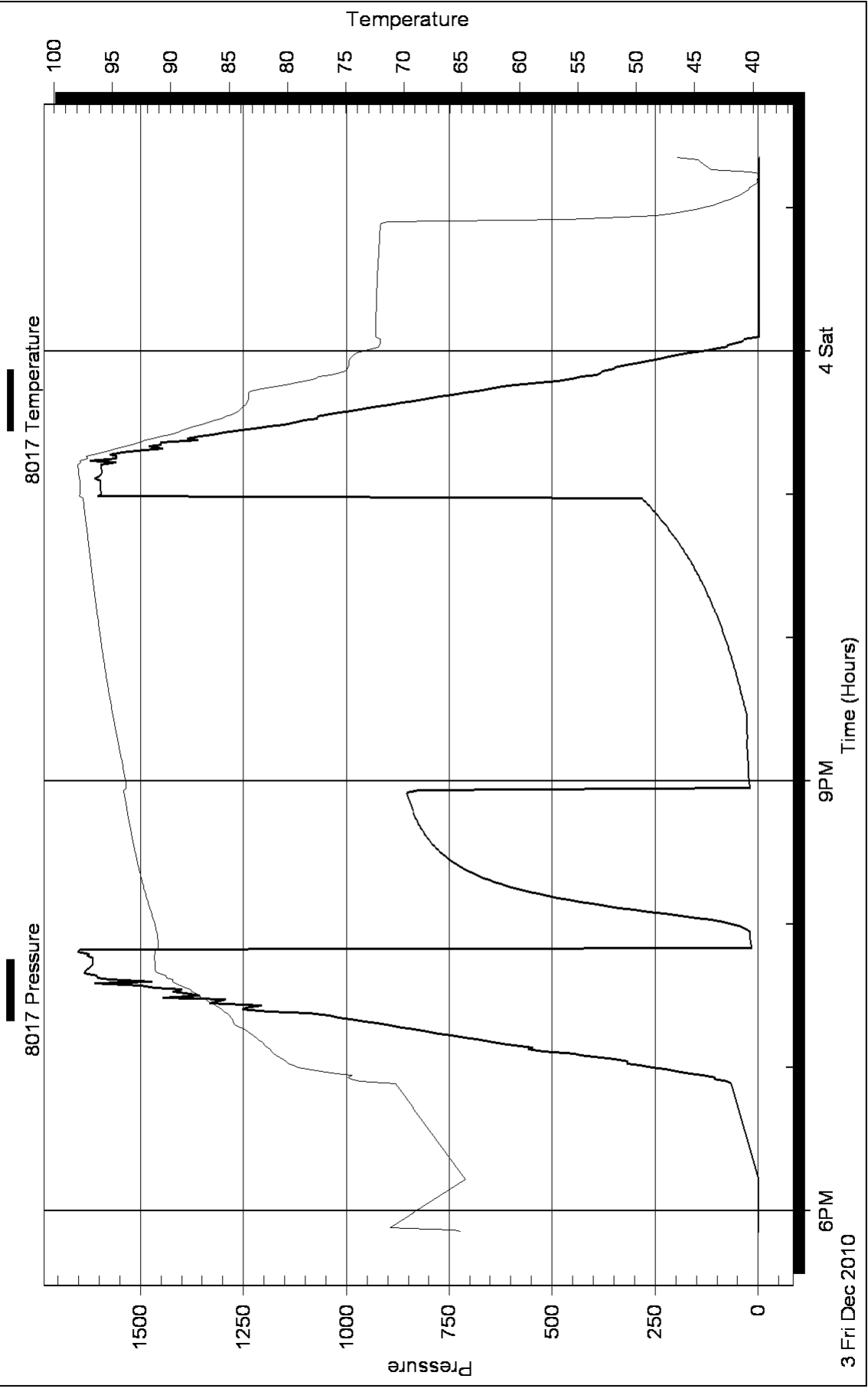
Gas Rates Table

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

Pressure vs. Time



Pressure vs. Time



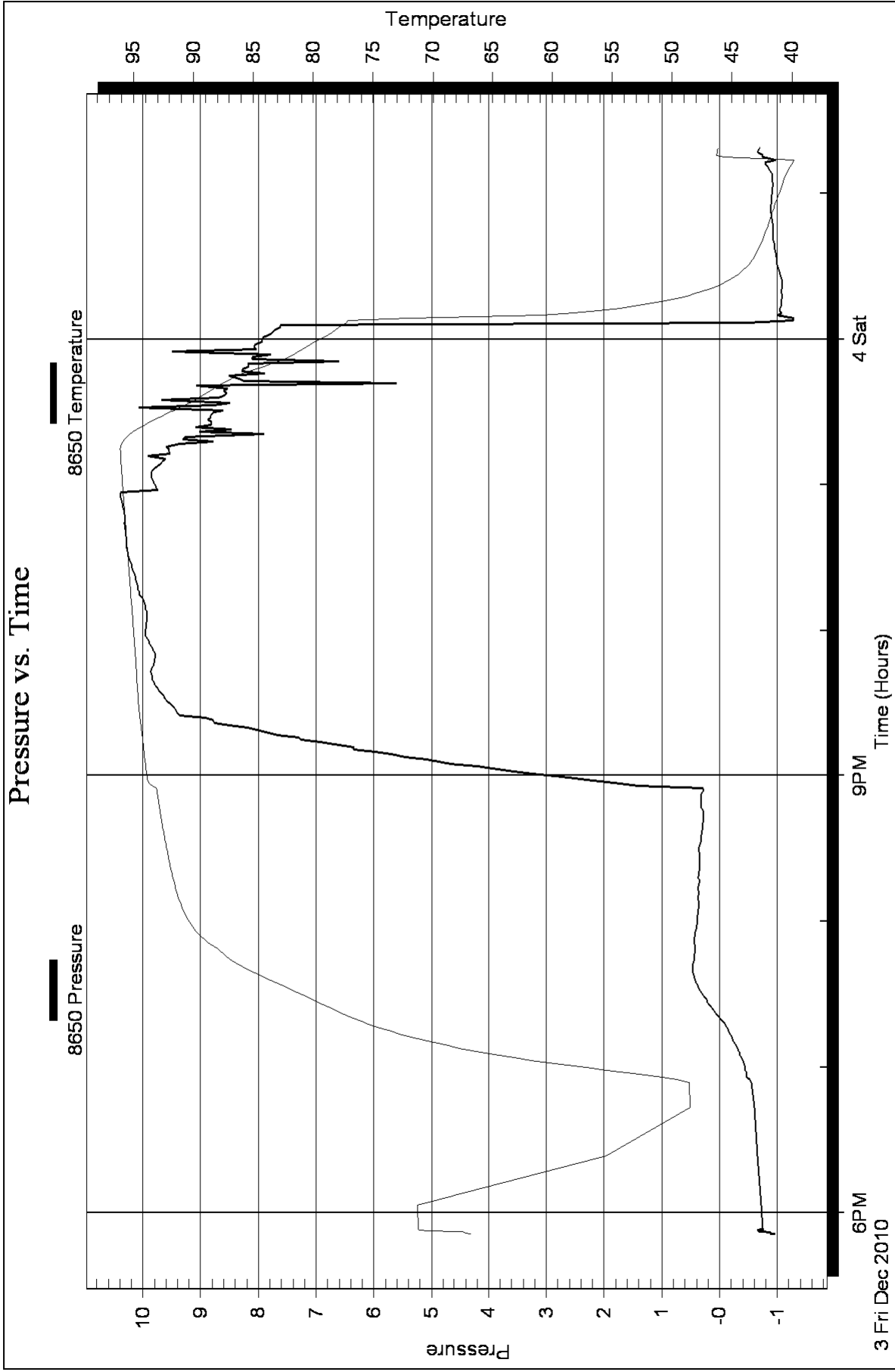
Serial #: 8650

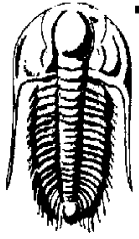
Fluid

Sam Gary Jr. & Assoc. inc.

22-16s-16w Rush Co.

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039994

DST#: 2

Test Start: 2010.12.03 @ 17:51:05

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.61	65.2		95.6	1267.18	86.6
	0.6	-1.58	66.2		96.8	1295.85	87.0
	1.2	-1.28	69.5		97.9	1412.51	87.4
	1.8	-1.32	70.9		99.1	1456.50	87.6
	51.9	-1.50	52.4		100.3	1390.65	88.0
	62.9	77.06	74.1		101.4	1451.33	88.5
	64.1	107.99	74.9		102.6	1607.43	89.1
	65.3	137.44	74.6		103.8	1547.42	89.4
	66.4	167.20	75.6		104.9	1576.49	89.7
	67.6	232.80	77.4		106.1	1605.16	90.2
	68.8	258.27	79.2		107.3	1638.63	90.5
	69.9	289.37	79.8		108.4	1636.77	90.9
	71.1	319.07	80.2		109.6	1629.80	91.1
	72.3	372.82	80.4		110.8	1621.91	91.2
	73.4	409.90	80.9		111.9	1616.25	91.3
	74.6	484.88	81.2		113.1	1616.74	91.4
	75.8	502.53	81.5		114.3	1616.49	91.4
	76.9	584.36	81.8		115.4	1630.73	91.5
	78.1	591.15	81.9		116.6	1642.58	91.4
	79.3	683.47	82.1		117.4	1647.91	91.5
	80.4	683.70	82.4		117.6	1647.76	91.5
	81.6	756.12	82.8	Initial Hydro-static	117.8	1647.53	91.5
	82.8	776.46	83.1		117.9	1646.94	91.5
	83.9	848.82	83.4		118.1	1647.08	91.5
	85.1	868.40	83.9	Open To Flow (1)	118.3	16.49	90.5
	86.3	895.99	84.4		118.4	17.61	91.1
	87.4	950.29	84.6		118.6	17.80	91.1
	88.6	991.51	84.7		118.8	17.99	91.1
	89.8	1061.49	84.8		119.9	18.90	91.1
	90.9	1081.88	85.1		121.1	20.56	91.2
	92.1	1161.51	85.3		122.3	21.09	91.2
	93.3	1173.54	85.8		123.4	21.25	91.2
	94.4	1275.85	86.2		124.6	21.32	91.3

Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
Shut-In(1)	125.1	21.35	91.3		167.9	817.02	93.5
	125.3	21.33	91.3		169.1	821.13	93.5
	125.4	21.94	91.4		170.3	824.82	93.6
	125.6	23.11	91.4		171.4	828.37	93.6
	125.8	24.37	91.4		172.6	831.98	93.6
	125.9	25.80	91.4		173.8	835.18	93.7
	127.1	37.58	91.5		174.9	837.91	93.7
	128.3	55.87	91.5		176.1	840.75	93.8
	129.4	84.22	91.6		177.3	843.33	93.8
	130.6	125.37	91.7		178.4	845.94	93.8
	131.8	176.98	91.8		179.6	848.27	93.9
	132.9	231.62	91.9		180.8	850.50	93.9
	134.1	284.94	91.9		181.9	852.69	93.9
	135.3	335.11	92.0		183.1	854.69	94.0
	136.4	381.61	92.1		184.1	856.68	94.0
	137.6	424.65	92.2		184.3	856.81	94.0
	138.8	464.12	92.2	End Shut-In(1)	184.4	856.92	94.0
	139.9	499.94	92.3		184.6	50.21	93.5
	141.1	532.48	92.4	Open To Flow (2)	184.8	22.42	93.7
	142.3	561.83	92.4		184.9	22.31	93.8
	143.4	588.41	92.5		186.1	22.72	93.8
	144.6	612.17	92.5		187.3	23.17	93.9
	145.8	633.71	92.6		188.4	24.05	93.9
	146.9	653.13	92.7		189.6	24.65	93.9
	148.1	670.61	92.7		190.8	25.23	94.0
	149.3	686.57	92.8		191.9	26.07	94.0
	150.4	700.92	92.8		193.1	26.12	94.0
	151.6	713.95	92.9		194.3	26.11	94.1
	152.8	725.96	92.9		195.4	26.35	94.1
	153.9	736.86	93.0		196.6	26.42	94.2
	155.1	746.72	93.0		197.8	27.02	94.2
	156.3	755.95	93.1		198.9	27.52	94.2
	157.4	764.32	93.1		200.1	27.58	94.3
	158.6	772.12	93.1		201.3	27.96	94.3
	159.8	779.28	93.2		202.4	28.07	94.4
	160.9	785.83	93.2		203.6	28.16	94.4
	162.1	792.04	93.3		204.8	28.13	94.5
	163.3	797.78	93.3		205.9	28.19	94.5
	164.4	803.17	93.4		207.1	27.98	94.5
	165.6	808.13	93.4		208.3	28.87	94.6
	166.8	812.63	93.4		209.4	28.66	94.6

Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	210.6	28.80	94.7		253.1	92.23	95.9
	211.8	28.68	94.7		254.3	94.77	95.9
	212.9	29.63	94.7		255.4	97.32	95.9
	214.1	29.69	94.8		256.6	99.85	95.9
	215.3	29.21	94.8		257.8	102.45	96.0
	216.1	30.38	94.8		258.9	105.19	96.0
	216.3	30.64	94.8		260.1	107.93	96.0
Shut-In(2)	216.4	30.85	94.8		261.3	110.69	96.1
	216.6	31.08	94.8		262.4	113.58	96.1
	216.8	31.29	94.8		263.6	116.70	96.1
	216.9	31.60	94.9		264.8	119.43	96.2
	218.1	33.22	94.9		265.9	122.44	96.2
	219.3	34.89	94.9		267.1	125.77	96.2
	220.4	36.56	95.0		268.3	128.68	96.2
	221.6	38.33	95.0		269.4	131.84	96.3
	222.8	39.99	95.0		270.6	135.43	96.3
	223.9	41.65	95.1		271.8	138.54	96.3
	225.1	43.32	95.1		272.9	142.21	96.4
	226.3	45.24	95.1		274.1	145.75	96.4
	227.4	46.97	95.2		275.3	149.12	96.4
	228.6	48.65	95.2		276.4	152.74	96.4
	229.8	50.56	95.2		277.6	156.50	96.5
	230.9	52.34	95.3		278.8	160.38	96.5
	232.1	54.28	95.3		279.9	164.31	96.5
	233.3	56.06	95.3		281.1	168.57	96.6
	234.4	57.88	95.4		282.3	172.36	96.6
	235.6	59.83	95.4		283.4	176.53	96.6
	236.8	61.70	95.4		284.6	180.82	96.6
	237.9	63.65	95.5		285.8	185.25	96.7
	239.1	65.79	95.5		286.9	189.60	96.7
	240.3	67.71	95.5		288.1	194.22	96.7
	241.4	69.82	95.5		289.3	198.87	96.7
	242.6	71.95	95.6		290.4	203.61	96.8
	243.8	74.07	95.6		291.6	208.49	96.8
	244.9	76.17	95.6		292.8	213.47	96.8
	246.1	78.33	95.7		293.9	218.67	96.9
	247.3	80.52	95.7		295.1	223.76	96.9
	248.4	82.83	95.7		296.3	229.05	96.9
	249.6	85.19	95.8		297.4	234.48	96.9
	250.8	87.45	95.8		298.6	240.09	97.0
	251.9	89.76	95.8		299.8	245.79	97.0

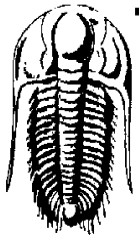
Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	300.9	251.57	97.0		339.8	1078.00	86.8
	302.1	257.53	97.0		340.9	1083.08	86.0
	303.3	263.53	97.1		342.1	1028.31	85.4
	304.4	269.70	97.1		343.3	991.04	84.9
	305.6	276.08	97.1		344.4	959.36	84.5
	306.8	282.47	97.1		345.6	885.99	84.0
	306.9	283.37	97.2		346.8	871.62	83.8
	307.1	284.25	97.2		347.9	836.29	83.5
End Shut-In(2)	307.3	282.81	97.2		349.1	743.69	83.4
	307.4	1584.12	97.7		350.3	744.36	83.3
	307.6	1609.92	97.5		351.4	671.06	83.3
Final Hydro-static	307.8	1606.53	97.6		352.6	652.53	83.1
	307.9	1604.05	97.6		353.8	622.09	81.8
	308.1	1601.99	97.7		354.9	562.94	80.6
	308.3	1600.39	97.7		356.1	530.49	79.0
	309.4	1594.34	97.9		357.3	469.29	77.7
	310.6	1597.00	98.0		358.4	439.94	76.7
	311.8	1597.66	98.0		359.6	367.17	75.6
	312.9	1596.52	98.1		360.8	352.51	75.1
	314.1	1596.54	98.1		361.9	350.54	74.9
	315.3	1614.39	98.1		363.1	320.95	74.8
	316.4	1600.97	98.1		364.3	290.29	74.8
	317.6	1595.16	98.1		365.4	226.15	74.7
	318.8	1595.40	98.1		366.6	199.32	74.6
	319.9	1596.21	98.1		367.8	169.10	74.4
	321.1	1597.40	98.1		368.9	103.56	73.9
	322.3	1601.81	97.7		370.1	76.88	73.1
	323.4	1616.80	97.3		371.3	76.91	72.7
	324.6	1550.68	97.2		372.4	40.29	72.4
	325.8	1516.51	96.7		373.6	39.82	72.3
	326.9	1476.76	95.9		374.8	-1.12	72.5
	328.1	1489.97	95.3		375.9	-1.09	72.5
	329.3	1424.99	94.4		377.1	-1.07	72.5
	330.4	1407.14	93.7		378.3	-1.05	72.5
	331.6	1396.40	93.1		379.4	-1.06	72.5
	332.8	1357.62	92.0		380.6	-1.10	72.5
	333.9	1272.49	90.9		381.8	-1.12	72.5
	335.1	1246.59	90.0		382.9	-1.12	72.5
	336.3	1213.76	89.2		384.1	-1.11	72.5
	337.4	1203.23	88.3		385.3	-1.08	72.5
	338.6	1173.49	87.5		386.4	-1.07	72.5

Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	387.6	-1.08	72.5		435.4	-1.61	40.4
	388.8	-1.09	72.4		436.6	-1.58	40.3
	389.9	-1.10	72.4		437.8	-1.55	39.7
	391.1	-1.09	72.4		438.9	-1.54	39.5
	392.3	-1.12	72.4		440.1	-1.53	39.3
	393.4	-1.11	72.4		441.3	-1.50	39.1
	394.6	-1.07	72.4		442.4	-1.51	38.9
	395.8	-1.08	72.4		443.6	-1.54	38.8
	396.9	-1.08	72.4		444.8	-1.55	39.0
	398.1	-1.07	72.3		445.9	-1.55	39.4
	399.3	-1.08	72.3		447.1	-1.54	39.8
	400.4	-1.09	72.3		448.3	-1.59	40.2
	401.6	-1.10	72.3		449.4	-1.71	40.8
	402.8	-1.09	72.3		449.6	-1.78	43.0
	403.9	-1.09	72.3				
	405.1	-1.08	72.2				
	406.3	-1.10	72.2				
	407.4	-1.12	72.2				
	408.6	-1.11	72.2				
	409.8	-1.11	72.2				
	410.9	-1.11	72.1				
	412.1	-1.13	72.1				
	413.3	-1.14	72.1				
	414.4	-1.15	72.1				
	415.6	-1.13	72.1				
	416.8	-1.11	72.1				
	417.9	-1.10	72.1				
	419.1	-1.12	72.1				
	420.3	-1.15	72.0				
	421.4	-1.10	72.0				
	422.6	-1.22	71.9				
	423.8	-1.21	56.1				
	424.9	-1.71	50.2				
	426.1	-1.76	46.8				
	427.3	-1.75	45.0				
	428.4	-1.72	43.7				
	429.6	-1.71	42.8				
	430.8	-1.68	42.1				
	431.9	-1.65	41.5				
	433.1	-1.62	41.0				
	434.3	-1.61	40.7				

Printing every 7 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039994

DST#: 2

Test Start: 2010.12.03 @ 17:51:05

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.75	65.1		95.6	1266.21	86.5
	0.6	-1.49	65.4		96.8	1295.05	87.0
	1.2	-1.40	68.5		97.9	1445.31	87.4
	1.8	-1.37	71.2		99.1	1376.15	87.6
	51.9	-2.32	50.8		100.3	1434.24	88.1
	62.9	75.06	73.7		101.4	1450.36	88.5
	64.1	106.06	74.7		102.6	1431.79	89.0
	65.3	135.56	74.5		103.8	1610.36	89.6
	66.4	165.58	75.9		104.9	1579.21	89.9
	67.6	212.03	77.7		106.1	1604.23	90.2
	68.8	256.53	79.1		107.3	1616.43	90.5
	69.9	287.44	79.7		108.4	1636.24	91.2
	71.1	317.26	80.1		109.6	1629.23	91.3
	72.3	432.84	80.4		110.8	1621.30	91.3
	73.4	408.44	80.9		111.9	1615.10	91.4
	74.6	444.02	81.2		113.1	1615.81	91.4
	75.8	500.97	81.4		114.3	1615.21	91.4
	76.9	563.08	81.7		115.4	1630.34	91.4
	78.1	589.73	81.9		116.6	1642.37	91.3
	79.3	606.39	82.1		117.8	1646.79	91.4
	80.4	682.29	82.5		118.9	15.69	91.1
	81.6	693.76	82.8		120.1	16.51	91.1
	82.8	775.38	83.1		121.3	18.27	91.1
	83.9	822.33	83.4		122.4	18.70	91.1
	85.1	867.36	83.9		123.6	18.87	91.1
	86.3	894.76	84.5		124.8	18.95	91.2
	87.4	941.56	84.6		125.9	22.94	91.2
	88.6	990.02	84.7		127.1	34.60	91.3
	89.8	1101.45	84.9		128.3	52.53	91.3
	90.9	1080.80	85.1		129.4	79.82	91.4
	92.1	1189.29	85.4		130.6	120.32	91.5
	93.3	1172.32	85.7		131.8	171.77	91.5
	94.4	1335.67	86.2		132.9	226.50	91.6

Printing every 7 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	134.1	279.99	91.7		181.9	850.40	94.0
	135.3	330.20	91.8		183.1	852.46	94.0
	136.4	377.30	91.9		184.3	854.58	94.0
	137.6	420.55	91.9		185.4	19.72	93.8
	138.8	459.99	92.0		186.6	20.31	93.8
	139.9	496.06	92.1		187.8	21.07	93.9
	141.1	528.78	92.1		188.9	21.98	93.9
	142.3	558.26	92.2		190.1	22.70	93.9
	143.4	584.92	92.3		191.3	23.09	94.0
	144.6	608.89	92.3		192.4	23.81	94.0
	145.8	630.45	92.4		193.6	23.82	94.0
	146.9	649.99	92.5		194.8	23.89	94.1
	148.1	667.59	92.5		195.9	23.75	94.1
	149.3	683.64	92.6		197.1	24.22	94.2
	150.4	698.11	92.6		198.3	24.77	94.2
	151.6	711.25	92.7		199.4	25.50	94.3
	152.8	723.25	92.8		200.6	24.79	94.3
	153.9	734.11	92.8		201.8	25.67	94.4
	155.1	744.12	92.9		202.9	25.68	94.4
	156.3	753.36	92.9		204.1	25.67	94.5
	157.4	761.79	93.0		205.3	26.00	94.5
	158.6	769.53	93.0		206.4	25.41	94.6
	159.8	776.77	93.1		207.6	25.83	94.6
	160.9	783.52	93.1		208.8	26.35	94.7
	162.1	789.50	93.2		209.9	26.17	94.7
	163.3	795.24	93.2		211.1	26.47	94.8
	164.4	800.50	93.3		212.3	26.48	94.8
	165.6	805.58	93.3		213.4	27.02	94.9
	166.8	810.14	93.4		214.6	27.35	94.9
	167.9	814.55	93.4		215.8	27.23	94.9
	169.1	818.61	93.5		216.9	28.78	95.0
	170.3	822.43	93.5		218.1	30.42	95.0
	171.4	826.23	93.6		219.3	31.92	95.1
	172.6	829.34	93.6		220.4	33.64	95.1
	173.8	832.62	93.7		221.6	35.29	95.2
	174.9	835.49	93.7		222.8	36.83	95.2
	176.1	838.43	93.7		223.9	38.52	95.2
	177.3	841.04	93.8		225.1	40.26	95.3
	178.4	843.52	93.8		226.3	42.13	95.3
	179.6	845.90	93.9		227.4	43.78	95.4
	180.8	848.28	93.9		228.6	45.53	95.4

Printing every 7 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	229.8	47.23	95.4		277.6	153.75	96.8
	230.9	49.11	95.5		278.8	157.52	96.8
	232.1	50.94	95.5		279.9	161.41	96.9
	233.3	52.93	95.6		281.1	165.48	96.9
	234.4	54.67	95.6		282.3	169.64	96.9
	235.6	56.62	95.6		283.4	173.76	96.9
	236.8	58.55	95.7		284.6	178.14	97.0
	237.9	60.39	95.7		285.8	182.43	97.0
	239.1	62.49	95.7		286.9	187.09	97.0
	240.3	64.42	95.8		288.1	191.53	97.1
	241.4	66.57	95.8		289.3	196.25	97.1
	242.6	68.66	95.8		290.4	201.01	97.1
	243.8	70.70	95.9		291.6	205.99	97.1
	244.9	72.87	95.9		292.8	210.80	97.2
	246.1	75.07	95.9		293.9	215.90	97.2
	247.3	77.37	96.0		295.1	221.19	97.2
	248.4	79.56	96.0		296.3	226.35	97.3
	249.6	81.94	96.0		297.4	231.80	97.3
	250.8	84.30	96.1		298.6	237.41	97.3
	251.9	86.73	96.1		299.8	242.93	97.3
	253.1	89.09	96.1		300.9	248.88	97.4
	254.3	91.61	96.2		302.1	254.75	97.4
	255.4	94.11	96.2		303.3	260.77	97.4
	256.6	96.73	96.2		304.4	266.91	97.5
	257.8	99.46	96.3		305.6	273.25	97.5
	258.9	102.09	96.3		306.8	279.65	97.5
	260.1	104.86	96.3		307.9	1603.72	97.9
	261.3	107.59	96.4		309.1	1593.96	97.8
	262.4	110.48	96.4		310.3	1597.55	97.8
	263.6	113.35	96.4		311.4	1596.03	97.8
	264.8	116.31	96.5		312.6	1595.74	97.8
	265.9	119.45	96.5		313.8	1596.08	97.8
	267.1	122.57	96.5		314.9	1620.85	97.8
	268.3	125.68	96.6		316.1	1603.59	97.9
	269.4	128.90	96.6		317.3	1595.90	97.9
	270.6	132.54	96.6		318.4	1591.01	97.9
	271.8	135.94	96.6		319.6	1596.67	97.9
	272.9	139.38	96.7		320.8	1594.92	97.9
	274.1	142.74	96.7		321.9	1530.85	97.7
	275.3	146.27	96.7		323.1	1620.33	97.5
	276.4	150.26	96.8		324.3	1604.48	97.2

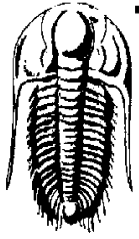
Printing every 7 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	325.4	1573.25	96.7		373.3	38.22	72.0
	326.6	1489.89	95.6		374.4	-2.19	72.4
	327.8	1466.53	94.9		375.6	-2.24	72.4
	328.9	1450.97	93.9		376.8	-2.28	72.4
	330.1	1410.55	93.1		377.9	-2.34	72.4
	331.3	1360.39	92.2		379.1	-2.35	72.4
	332.4	1315.18	91.3		380.3	-2.34	72.4
	333.6	1325.87	90.2		381.4	-2.34	72.4
	334.8	1296.35	89.4		382.6	-2.34	72.4
	335.9	1264.63	88.7		383.8	-2.34	72.4
	337.1	1187.77	88.0		384.9	-2.37	72.4
	338.3	1169.61	87.1		386.1	-2.38	72.4
	339.4	1141.74	86.3		387.3	-2.37	72.4
	340.6	1051.79	85.6		388.4	-2.37	72.4
	341.8	1050.34	85.0		389.6	-2.36	72.4
	342.9	1018.05	84.5		390.8	-2.37	72.4
	344.1	985.62	84.1		391.9	-2.39	72.3
	345.3	927.41	83.8		393.1	-2.38	72.3
	346.4	887.38	83.6		394.3	-2.38	72.3
	347.6	842.34	83.4		395.4	-2.37	72.3
	348.8	803.54	83.3		396.6	-2.35	72.3
	349.9	720.72	83.3		397.8	-2.35	72.3
	351.1	712.11	83.3		398.9	-2.37	72.3
	352.3	638.44	83.1		400.1	-2.39	72.3
	353.4	620.84	81.4		401.3	-2.40	72.3
	354.6	589.43	80.2		402.4	-2.36	72.3
	355.8	527.81	78.9		403.6	-2.37	72.2
	356.9	499.41	77.7		404.8	-2.39	72.2
	358.1	434.36	77.1		405.9	-2.36	72.2
	359.3	408.66	75.6		407.1	-2.36	72.2
	360.4	378.05	75.1		408.3	-2.38	72.2
	361.6	349.72	74.8		409.4	-2.37	72.2
	362.8	319.88	74.8		410.6	-2.37	72.1
	363.9	288.67	74.7		411.8	-2.35	72.1
	365.1	257.84	74.7		412.9	-2.36	72.1
	366.3	225.88	74.5		414.1	-2.38	72.1
	367.4	166.02	74.3		415.3	-2.38	72.1
	368.6	136.51	73.6		416.4	-2.37	72.1
	369.8	105.84	72.7		417.6	-2.35	72.1
	370.9	75.68	72.1		418.8	-2.37	72.1
	372.1	53.68	72.0		419.9	-2.41	72.0

Printing every 7 samples

Serial # 8017 Inside				Serial # 8650 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	421.1	-2.41	72.0				
	422.3	-2.30	72.0				
	423.4	-2.27	59.4				
	424.6	-2.42	51.2				
	425.8	-2.52	47.7				
	426.9	-2.55	45.9				
	428.1	-2.53	44.7				
	429.3	-2.50	43.8				
	430.4	-2.48	43.0				
	431.6	-2.46	42.3				
	432.8	-2.44	41.7				
	433.9	-2.44	41.1				
	435.1	-2.45	40.7				
	436.3	-2.44	40.4				
	437.4	-2.42	40.2				
	438.6	-2.43	39.8				
	439.8	-2.44	39.6				
	440.9	-2.43	39.6				
	442.1	-2.39	39.5				
	443.3	-2.45	39.4				
	444.4	-2.51	43.5				
	445.6	-2.47	43.9				
	446.8	-2.48	44.2				
	447.9	-2.50	44.5				
	449.1	-2.41	44.8				
	449.6	-2.69	46.5				

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039994

DST#: 2

Test Start: 2010.12.03 @ 17:51:05

Serial # 8650 Fluid				Serial # 8650 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.95	66.8		1.6	-0.65	71.2
	0.1	-0.91	66.9		1.7	-0.67	71.2
	0.1	-0.89	67.0		1.8	-0.67	71.2
	0.2	-0.89	67.0		1.8	-0.70	71.2
	0.2	-0.89	67.1		1.9	-0.76	71.2
	0.3	-0.88	67.1		1.9	-0.76	71.2
	0.3	-0.87	67.1		2.0	-0.75	71.2
	0.3	-0.88	67.2		12.0	-0.72	71.3
	0.4	-0.87	67.2		42.0	-0.64	51.4
	0.4	-0.88	67.2		62.5	-0.55	48.5
	0.5	-0.89	67.2		64.0	-0.50	50.2
	0.6	-0.88	67.3		65.5	-0.47	52.2
	0.6	-0.89	67.3		67.0	-0.46	54.6
	0.6	-0.90	67.3		68.5	-0.44	57.1
	0.7	-0.90	67.3		70.0	-0.43	59.5
	0.8	-0.88	67.3		71.5	-0.41	61.7
	0.8	-0.86	67.3		73.0	-0.37	63.8
	0.9	-0.81	67.4		74.5	-0.35	65.6
	0.9	-0.77	67.4		76.0	-0.32	67.2
	0.9	-0.74	67.6		77.5	-0.28	68.7
	1.0	-0.72	67.8		79.0	-0.25	70.1
	1.0	-0.70	68.1		80.5	-0.23	71.3
	1.1	-0.69	68.5		82.0	-0.20	72.4
	1.1	-0.68	68.9		83.5	-0.16	73.5
	1.2	-0.66	69.3		85.0	-0.13	74.5
	1.3	-0.66	69.8		86.5	-0.09	75.4
	1.3	-0.66	70.2		88.0	-0.03	76.2
	1.4	-0.66	70.5		89.5	0.02	77.0
	1.4	-0.66	70.7		91.0	0.07	77.7
	1.5	-0.66	70.9		92.5	0.12	78.3
	1.5	-0.65	71.0		94.0	0.16	79.0
	1.5	-0.65	71.1		95.5	0.21	79.6
	1.6	-0.64	71.1		97.0	0.24	80.3

Printing every 3 samples

Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	0.29	80.9		160.0	0.34	92.3
	100.0	0.33	81.6		161.5	0.33	92.3
	101.5	0.36	82.2		163.0	0.32	92.4
	103.0	0.40	82.9		164.5	0.32	92.5
	104.5	0.42	83.5		166.0	0.30	92.5
	106.0	0.44	84.2		167.5	0.29	92.6
	107.5	0.45	84.9		169.0	0.29	92.6
	109.0	0.47	85.5		170.5	0.28	92.7
	110.5	0.47	86.1		172.0	0.28	92.7
	112.0	0.46	86.6		173.5	0.27	92.8
	113.5	0.44	87.0		175.0	0.30	92.8
	115.0	0.44	87.4		176.5	0.31	92.9
	116.5	0.42	87.8		178.0	0.31	92.9
	118.0	0.43	88.1		179.5	0.31	93.0
	119.5	0.43	88.6		181.0	0.31	93.0
	121.0	0.43	89.0		182.5	0.28	93.1
	122.5	0.43	89.3		184.0	0.38	93.1
	124.0	0.42	89.7		185.5	1.72	93.7
	125.5	0.41	89.9		187.0	2.29	93.8
	127.0	0.39	90.1		188.5	2.85	93.9
	128.5	0.39	90.3		190.0	3.39	93.9
	130.0	0.38	90.5		191.5	3.93	94.0
	131.5	0.38	90.7		193.0	4.44	94.0
	133.0	0.37	90.8		194.5	4.88	94.0
	134.5	0.35	90.9		196.0	5.33	94.1
	136.0	0.36	91.1		197.5	5.70	94.1
	137.5	0.37	91.2		199.0	6.10	94.1
	139.0	0.36	91.3		200.5	6.35	94.2
	140.5	0.36	91.4		202.0	6.76	94.2
	142.0	0.37	91.4		203.5	7.27	94.2
	143.5	0.37	91.5		205.0	7.49	94.3
	145.0	0.35	91.6		206.5	7.87	94.3
	146.5	0.36	91.7		208.0	8.12	94.4
	148.0	0.36	91.8		209.5	8.50	94.4
	149.5	0.35	91.8		211.0	9.18	94.4
	151.0	0.34	91.9		212.5	8.92	94.5
	152.5	0.35	92.0		214.0	9.39	94.5
	154.0	0.35	92.0		215.5	9.42	94.5
	155.5	0.35	92.1		217.0	9.48	94.6
	157.0	0.35	92.2		218.5	9.53	94.6
	158.5	0.35	92.2		220.0	9.60	94.6

Printing every 3 samples

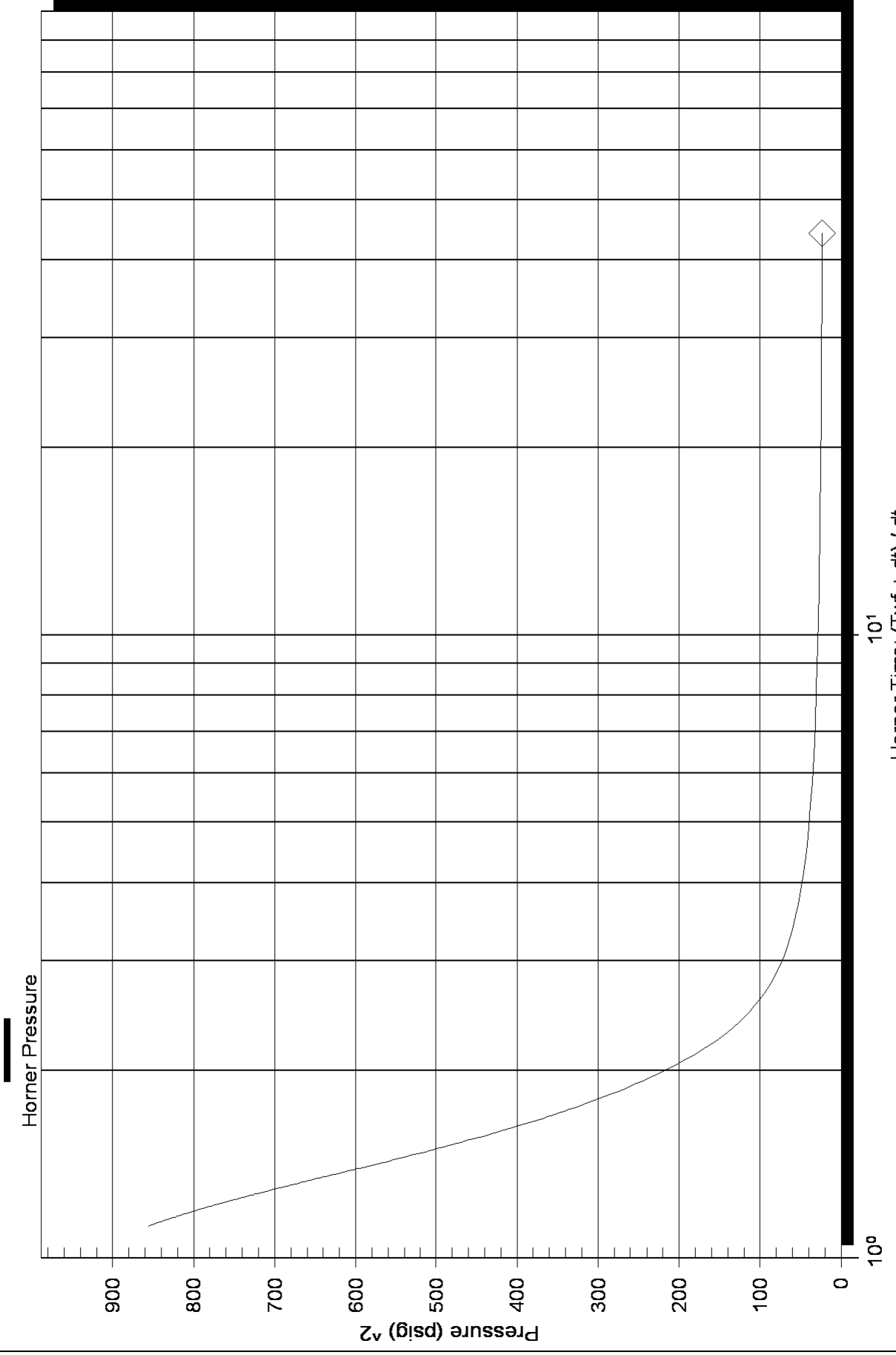
Serial # 8650	Fluid			Serial # 8650	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	9.64	94.6		283.0	10.28	95.5
	223.0	9.69	94.6		284.5	10.28	95.5
	224.5	9.75	94.7		286.0	10.28	95.6
	226.0	9.78	94.7		287.5	10.29	95.6
	227.5	9.81	94.7		289.0	10.29	95.6
	229.0	9.84	94.7		290.5	10.30	95.6
	230.5	9.85	94.7		292.0	10.31	95.7
	232.0	9.86	94.8		293.5	10.32	95.7
	233.5	9.84	94.8		295.0	10.31	95.7
	235.0	9.81	94.8		296.5	10.32	95.7
	236.5	9.80	94.8		298.0	10.33	95.8
	238.0	9.79	94.8		299.5	10.34	95.8
	239.5	9.80	94.9		301.0	10.35	95.8
	241.0	9.83	94.9		302.5	10.38	95.8
	242.5	9.87	94.9		304.0	10.40	95.8
	244.0	9.90	94.9		305.5	10.39	95.9
	245.5	9.93	94.9		307.0	9.74	95.9
	247.0	9.95	95.0		308.5	9.79	95.9
	248.5	9.95	95.0		310.0	9.81	95.9
	250.0	9.95	95.0		311.5	9.84	96.0
	251.5	9.94	95.0		313.0	9.86	96.0
	253.0	9.93	95.1		314.5	9.85	96.0
	254.5	9.93	95.1		316.0	9.77	96.0
	256.0	9.93	95.1		317.5	9.69	96.0
	257.5	9.95	95.1		319.0	9.63	96.1
	259.0	9.96	95.2		320.5	9.91	96.1
	260.5	9.98	95.2		322.0	9.54	96.1
	262.0	10.01	95.2		323.5	9.55	96.1
	263.5	10.05	95.2		325.0	9.60	96.1
	265.0	10.07	95.2		326.5	8.79	95.9
	266.5	10.09	95.3		328.0	9.30	95.6
	268.0	10.11	95.3		329.5	7.90	95.3
	269.5	10.12	95.3		331.0	9.12	94.9
	271.0	10.13	95.3		332.5	9.08	94.4
	272.5	10.15	95.4		334.0	8.79	93.9
	274.0	10.18	95.4		335.5	8.88	93.3
	275.5	10.19	95.4		337.0	8.81	92.7
	277.0	10.21	95.4		338.5	8.77	92.0
	278.5	10.24	95.5		340.0	8.80	91.4
	280.0	10.26	95.5		341.5	8.77	90.8
	281.5	10.26	95.5		343.0	8.27	90.1

Printing every 3 samples

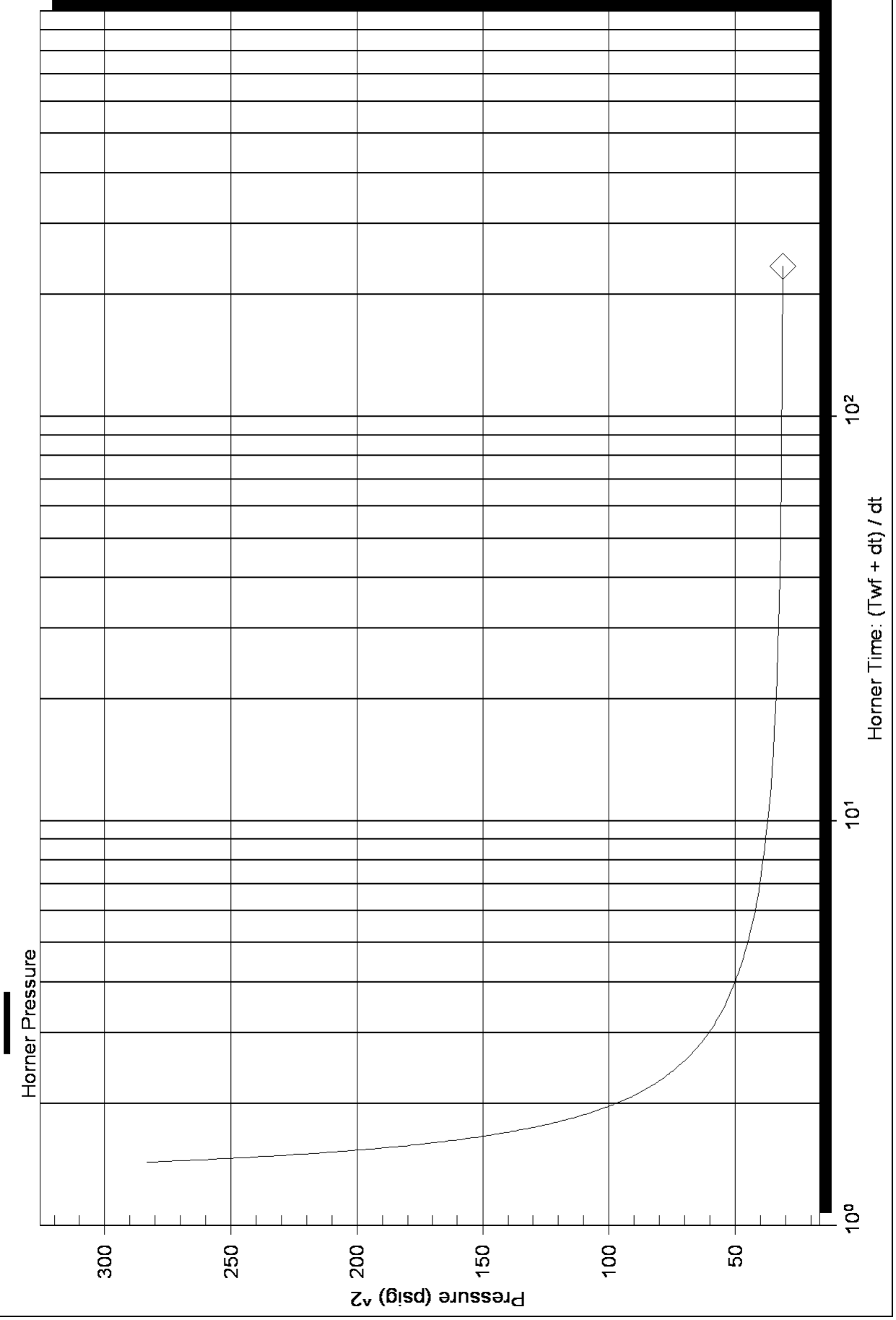
Serial # 8650	Fluid			Serial # 8650	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	8.69	89.6		406.0	-0.95	42.8
	346.0	8.56	89.1		407.5	-0.95	42.6
	347.5	8.60	88.6		409.0	-0.93	42.5
	349.0	8.55	88.1		410.5	-0.94	42.4
	350.5	5.60	87.6		412.0	-0.94	42.3
	352.0	7.95	87.0		413.5	-0.93	42.2
	353.5	8.51	86.4		415.0	-0.93	42.0
	355.0	7.76	85.6		416.5	-0.92	41.9
	356.5	8.27	84.7		418.0	-0.91	41.8
	358.0	8.20	83.8		419.5	-0.90	41.7
	359.5	6.60	82.9		421.0	-0.89	41.6
	361.0	8.09	82.2		422.5	-0.89	41.5
	362.5	7.79	81.6		424.0	-0.90	41.4
	364.0	8.04	81.1		425.5	-0.90	41.3
	365.5	8.08	80.6		427.0	-0.90	41.2
	367.0	7.99	80.1		428.5	-0.91	41.1
	368.5	7.95	79.5		430.0	-0.91	41.0
	370.0	7.85	78.9		431.5	-0.92	40.9
	371.5	7.77	78.4		433.0	-0.92	40.8
	373.0	7.66	78.0		434.5	-0.92	40.7
	374.5	7.62	77.6		436.0	-0.92	40.6
	376.0	-0.48	77.1		437.5	-0.89	40.4
	377.5	-1.28	72.0		439.0	-0.85	40.2
	379.0	-1.04	59.4		440.5	-0.80	40.0
	380.5	-1.04	56.1		442.0	-0.91	39.9
	382.0	-1.07	53.6		443.5	-0.74	45.6
	383.5	-1.08	51.7		445.0	-0.78	46.3
	385.0	-1.08	50.1		446.5	-0.67	46.2
	386.5	-1.08	48.7		448.0	-0.76	46.2
	388.0	-1.07	47.7				
	389.5	-1.08	46.8				
	391.0	-1.09	46.1				
	392.5	-1.09	45.4				
	394.0	-1.07	44.9				
	395.5	-1.05	44.5				
	397.0	-1.03	44.1				
	398.5	-1.01	43.8				
	400.0	-0.99	43.5				
	401.5	-0.99	43.3				
	403.0	-0.98	43.1				
	404.5	-0.97	42.9				

Printing every 3 samples

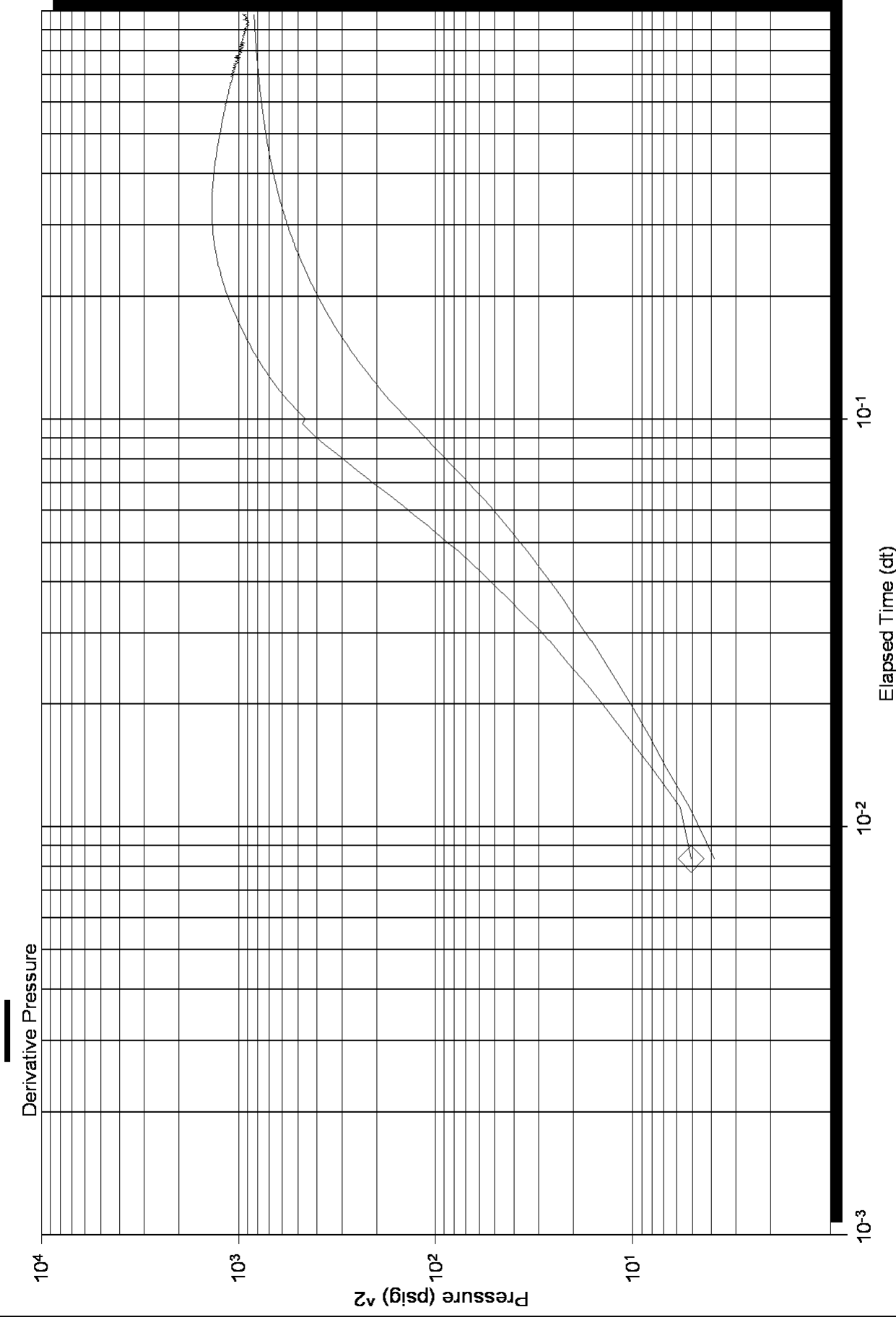
Homer Plot



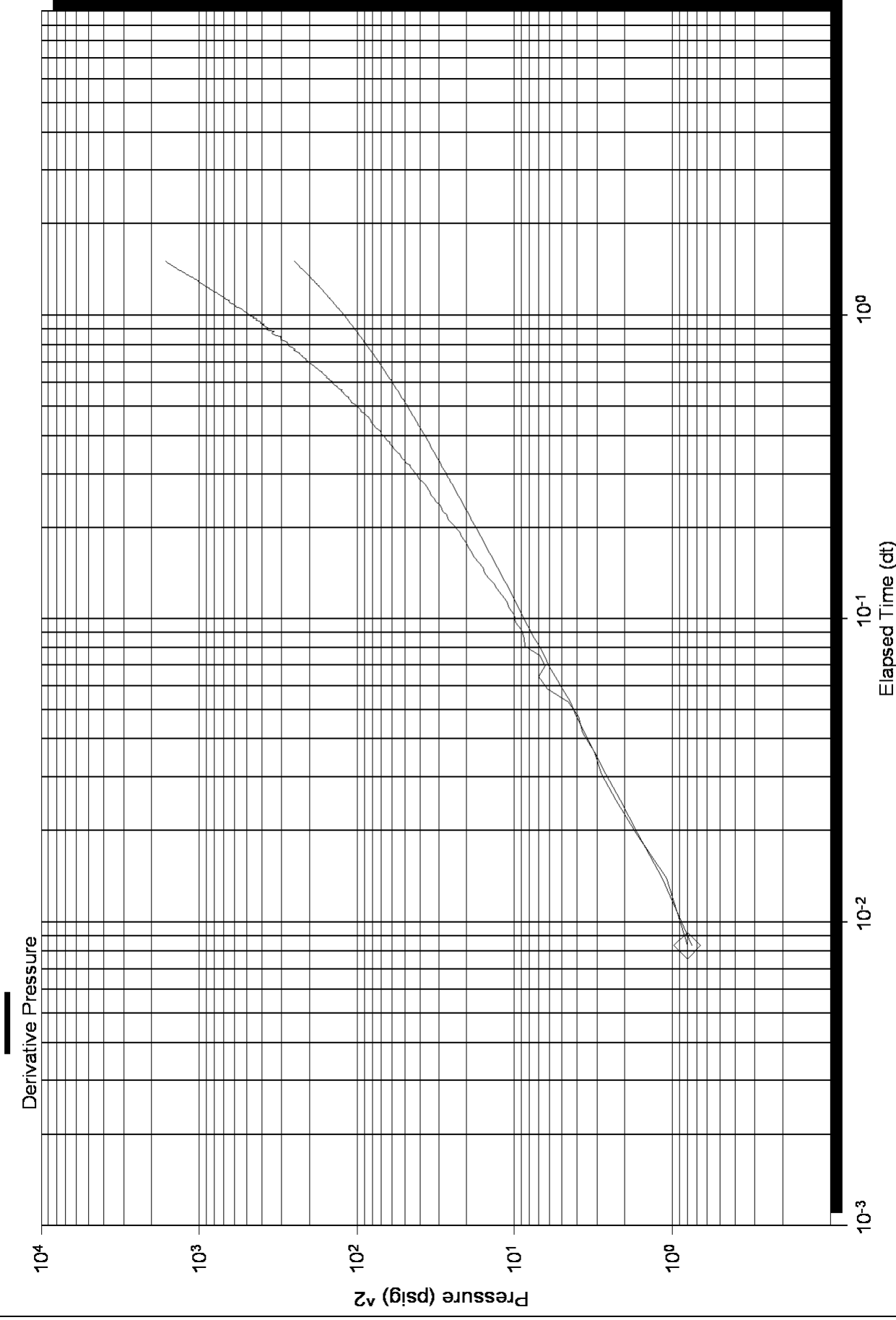
Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr. & Assoc.inc.**

1515 Wynkoop
Suite 700
Denver Co. 80202

ATTN: Neil Sharp

22-16s-16w Rush Co.

Hoss 1-22

Start Date: 2010.12.04 @ 09:43:05

End Date: 2010.12.04 @ 16:50:20

Job Ticket #: 039995 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

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039995 **DST#: 3**

Test Start: 2010.12.04 @ 09:43:05

GENERAL INFORMATION:

Formation: **LKC"K-L-M"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:42:00

Time Test Ended: 16:50:20

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Interval: 3432.00 ft (KB) To 3454.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 3454.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 15.57 psig @ 3433.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.12.04

End Date:

2010.12.04

Last Calib.: 2010.12.04

Start Time: 09:43:05

End Time:

16:50:20

Time On Btm: 2010.12.04 @ 11:40:30

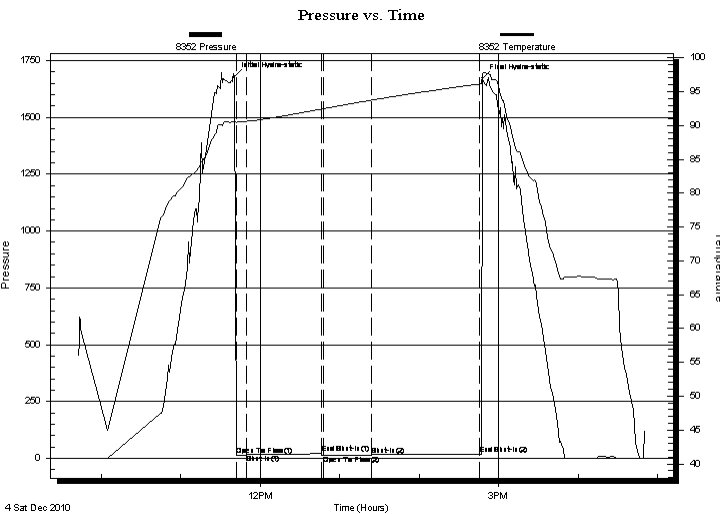
Time Off Btm: 2010.12.04 @ 14:47:59

TEST COMMENT: IF: Weak, Surface blow

IS: No Return

FF: No Blow

FS: No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.69	90.65	Initial Hydro-static
2	14.48	90.46	Open To Flow (1)
10	15.62	90.62	Shut-In(1)
66	20.54	92.44	End Shut-In(1)
68	15.36	92.50	Open To Flow (2)
104	15.57	93.75	Shut-In(2)
186	19.22	96.15	End Shut-In(2)
188	1672.15	97.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud m=100%	0.01

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr. & Assoc. inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039995 **DST#: 3**

Test Start: 2010.12.04 @ 09:43:05

GENERAL INFORMATION:

Formation: LKC"K-L-M"		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole
Time Tool Opened: 11:42:00		Tester: Andy Carreira
Time Test Ended: 16:50:20		Unit No: 31
Interval: 3432.00 ft (KB) To 3454.00 ft (KB) (TVD)		Reference Elevations: 1939.00 ft (KB)
Total Depth: 3454.00 ft (KB) (TVD)		1931.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 8.00 ft

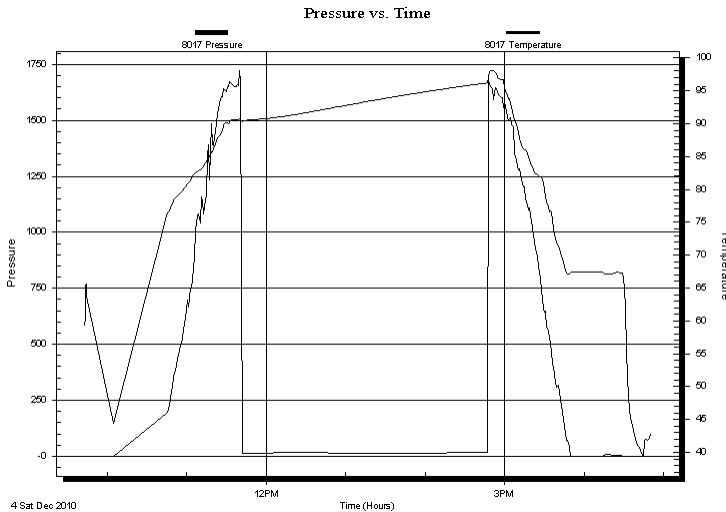
Serial #: 8017

Inside

Press @ Run Depth:	psig @	3433.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2010.12.04	End Date:	2010.12.04	Last Calib.:	2010.12.04
Start Time:	09:43:05	End Time:	16:50:29	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: Weak, Surface blow
IS: No Return
FF: No Blow
FS: No Return

PRESSURE SUMMARY



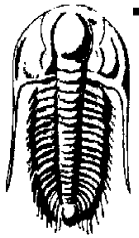
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud m=100%	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039995 **DST#: 3**
Test Start: 2010.12.04 @ 09:43:05

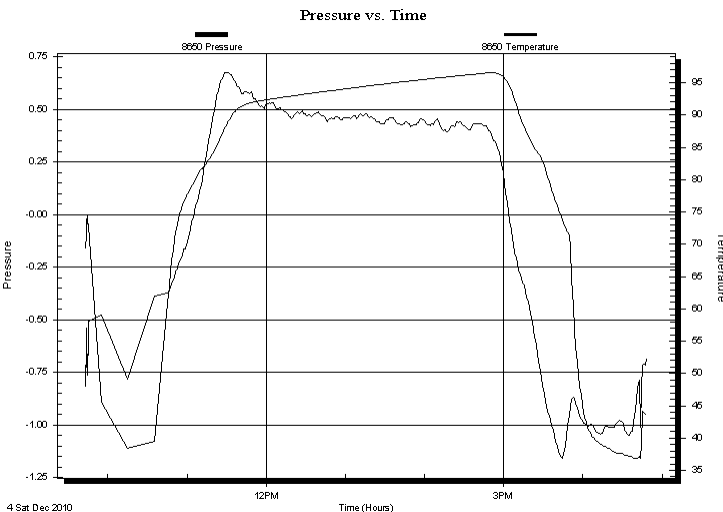
GENERAL INFORMATION:

Formation: **LKC"K-L-M"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:42:00
Time Test Ended: 16:50:20
Interval: 3432.00 ft (KB) To 3454.00 ft (KB) (TVD)
Total Depth: 3454.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31
Reference Elevations: 1939.00 ft (KB)
1931.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8650 Fluid
Press @ RunDepth: psig @ 3398.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.12.04 End Date: 2010.12.04 Last Calib.: 2010.12.04
Start Time: 09:43:01 End Time: 16:49:00 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak, Surface blow
IS: No Return
FF: No Blow
FS: No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud m=100%	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039995

DST#: 3

Test Start: 2010.12.04 @ 09:43:05

Tool Information

Drill Pipe:	Length: 3392.00 ft	Diameter: 3.80 inches	Volume: 47.58 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: 30.81 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 47.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.81 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3432.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	57.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3398.00	
Recorder	0.00	8650	Fluid	3398.00	
Blank Spacing	4.00			3402.00	
Shut In Tool	5.00			3407.00	
Sampler	3.00			3410.00	
Hydraulic tool	5.00			3415.00	
Jars	5.00			3420.00	
Safety Joint	3.00			3423.00	
Packer	5.00			3428.00	35.00 Bottom Of Top Packer
Packer	4.00			3432.00	
Stubb	1.00			3433.00	
Recorder	0.00	8017	Inside	3433.00	
Recorder	0.00	8352	Outside	3433.00	
Perforations	18.00			3451.00	
Bullnose	3.00			3454.00	22.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039995

DST#: 3

Test Start: 2010.12.04 @ 09:43:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud m=100%	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

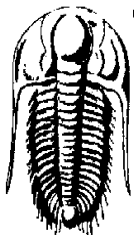
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Recovery- Mud= 700 ML Pressure=25LBS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039995

DST#: 3

Test Start: 2010.12.04 @ 09:43:05

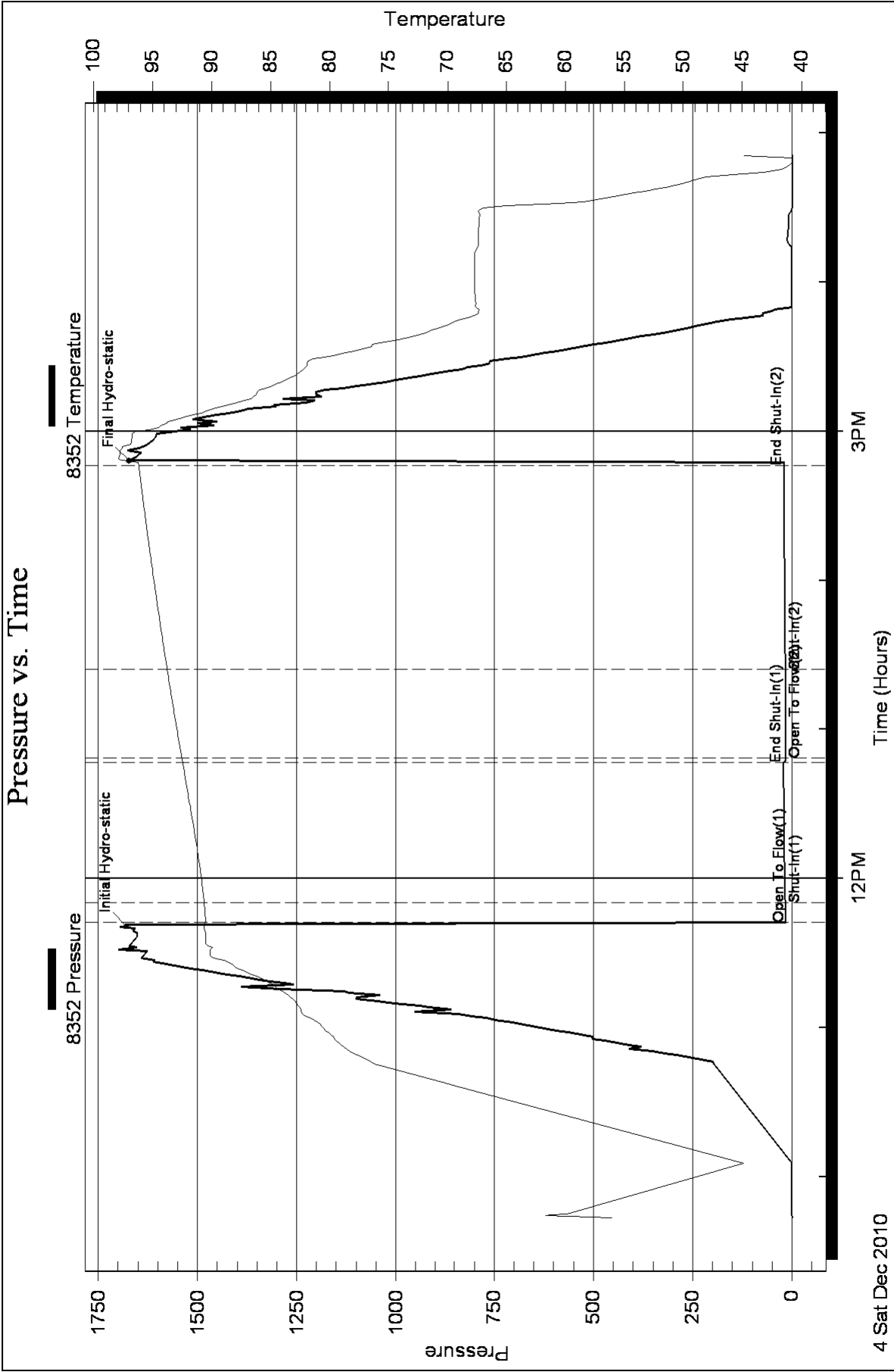
Gas Rates Information

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

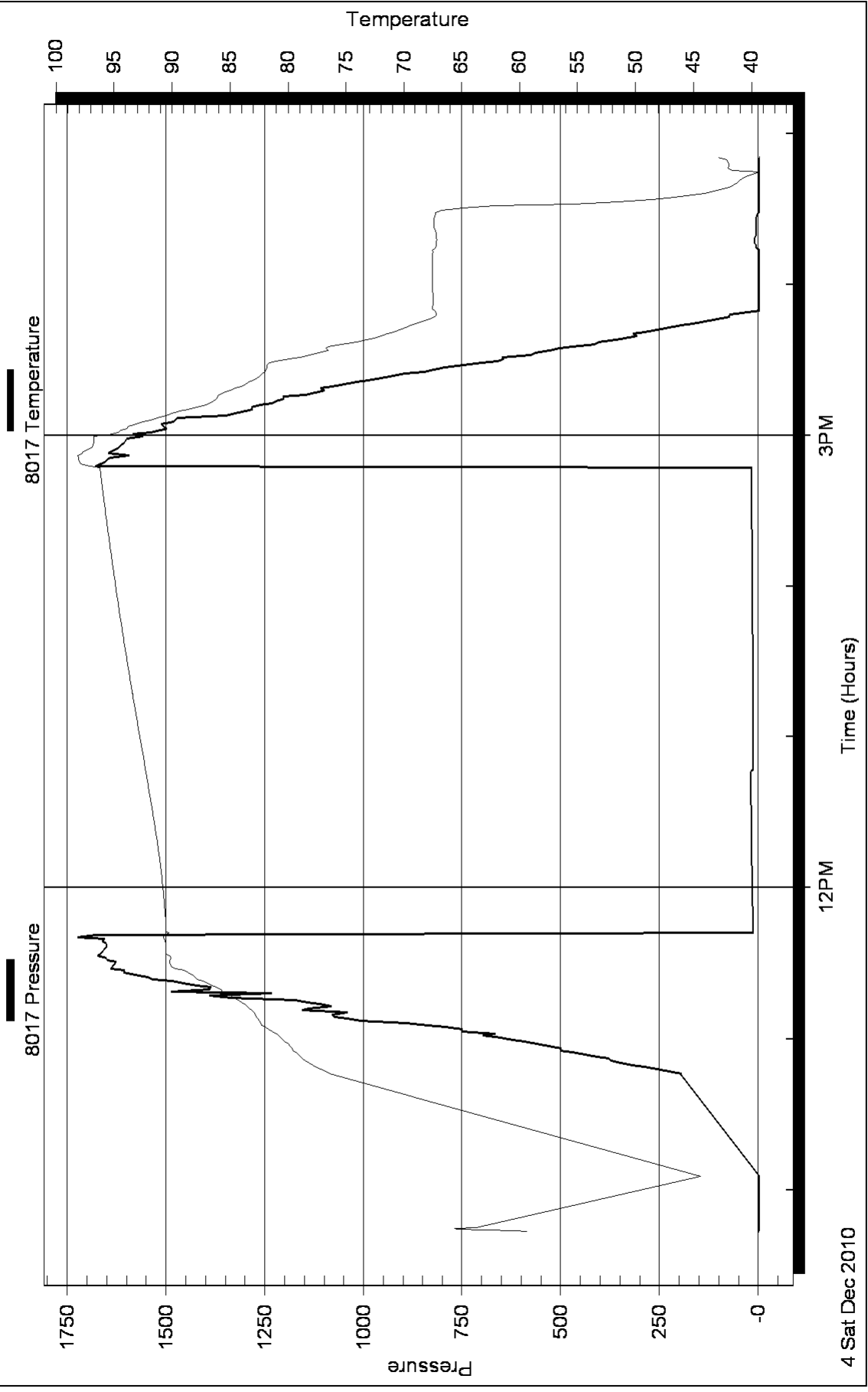
Gas Rates Table

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

Pressure vs. Time



Pressure vs. Time



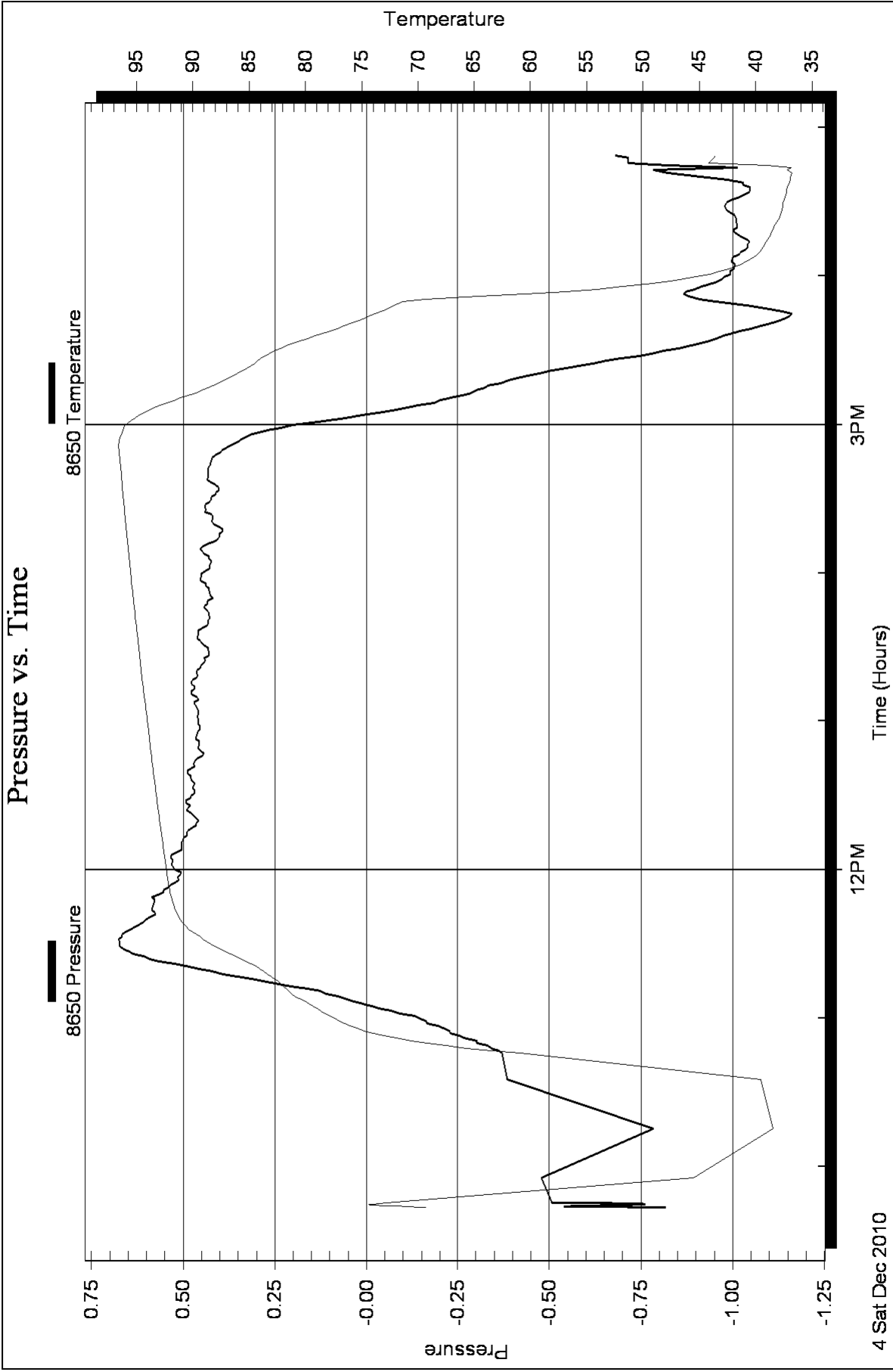
Serial #: 8650

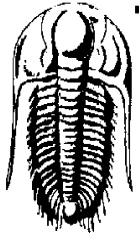
Fluid

Sam Gary Jr. & Assoc. inc.

22-16s-16w Rush Co.

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039995

DST#: 3

Test Start: 2010.12.04 @ 09:43:05

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.37	56.1		95.6	1330.75	85.5
	0.6	-1.39	60.2		96.8	1375.52	86.1
	1.2	-1.22	61.5		97.9	1424.66	86.5
	1.8	-1.23	59.6		99.1	1454.65	87.2
	51.9	-1.28	42.0		100.3	1625.12	87.7
	62.9	197.46	76.5		101.4	1547.58	88.1
	64.1	259.53	76.9		102.6	1775.18	88.5
	65.3	289.49	77.6		103.8	1606.64	88.9
	66.4	320.11	78.1		104.9	1638.85	90.0
	67.6	349.76	78.5		106.1	1632.07	90.1
	68.8	379.50	78.8		107.3	1625.11	90.1
	69.9	454.60	79.1		108.4	1654.72	90.0
	71.1	471.01	79.3		109.6	1672.06	90.3
	72.3	502.04	79.6		110.8	1664.86	90.5
	73.4	532.15	79.8		111.9	1657.76	90.5
	74.6	562.62	80.1		113.1	1651.27	90.5
	75.8	688.29	80.4		114.3	1652.21	90.5
	76.9	655.37	80.5		115.4	1661.50	90.5
	78.1	684.25	80.9		116.6	1654.94	90.6
	79.3	698.32	81.2		117.1	1695.03	90.6
	80.4	769.32	81.7		117.3	1677.41	90.6
	81.6	805.86	82.2	Initial Hydro-static	117.4	1678.69	90.7
	82.8	836.56	82.3		117.6	1679.88	90.7
	83.9	899.19	82.5		117.8	1679.87	90.7
	85.1	929.42	82.7		117.9	1679.81	90.7
	86.3	1003.16	82.8		118.6	13.70	90.3
	87.4	1021.74	83.0		118.8	14.47	90.4
	88.6	1038.46	83.2	Open To Flow (1)	118.9	14.48	90.5
	89.8	1131.80	83.5		119.1	14.50	90.5
	90.9	1143.99	83.9		119.3	14.53	90.5
	92.1	1292.28	84.3		119.4	14.54	90.5
	93.3	1236.58	84.6		120.6	14.71	90.5
	94.4	1390.38	85.1		121.8	14.69	90.5

Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	122.9	14.69	90.6		164.8	19.44	91.8
	124.1	14.51	90.6		165.9	19.52	91.8
	125.3	15.27	90.6		167.1	19.61	91.9
	126.4	15.51	90.6		168.3	19.70	91.9
Shut-In(1)	126.6	15.55	90.6		169.4	19.76	91.9
	126.8	15.58	90.6		170.6	19.80	92.0
	126.9	15.62	90.6		171.8	19.87	92.0
	127.1	15.65	90.6		172.9	19.96	92.1
	127.3	15.68	90.6		174.1	20.04	92.1
	127.4	15.72	90.6		175.3	20.12	92.2
	128.6	15.93	90.7		176.4	20.19	92.2
	129.8	16.08	90.7		177.6	20.26	92.2
	130.9	16.23	90.7		178.8	20.34	92.3
	132.1	16.42	90.7		179.9	20.43	92.3
	133.3	16.57	90.8		181.1	20.50	92.4
	134.4	16.71	90.8		182.3	20.51	92.4
	135.6	16.85	90.8		182.8	20.53	92.4
	136.8	16.98	90.9		182.9	20.54	92.4
	137.9	17.10	90.9	End Shut-In(1)	183.1	20.54	92.4
	139.1	17.24	90.9		183.3	20.52	92.4
	140.3	17.38	91.0		183.4	15.20	92.4
	141.4	17.49	91.0		183.6	15.20	92.5
	142.6	17.61	91.0		184.6	15.35	92.5
	143.8	17.74	91.1		184.8	15.35	92.5
	144.9	17.86	91.1	Open To Flow (2)	184.9	15.36	92.5
	146.1	17.97	91.1		185.1	15.37	92.5
	147.3	18.06	91.2		185.3	15.38	92.5
	148.4	18.15	91.2		185.4	15.39	92.5
	149.6	18.24	91.2		186.6	15.42	92.6
	150.8	18.34	91.3		187.8	15.45	92.6
	151.9	18.45	91.3		188.9	15.45	92.6
	153.1	18.56	91.4		190.1	15.46	92.7
	154.3	18.65	91.4		191.3	15.44	92.7
	155.4	18.73	91.4		192.4	15.43	92.8
	156.6	18.81	91.5		193.6	15.50	92.8
	157.8	18.89	91.5		194.8	15.44	92.9
	158.9	18.98	91.6		195.9	15.37	92.9
	160.1	19.08	91.6		197.1	15.42	92.9
	161.3	19.17	91.6		198.3	15.48	93.0
	162.4	19.28	91.7		199.4	15.49	93.0
	163.6	19.37	91.7		200.6	15.39	93.1

Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	201.8	15.35	93.1		243.6	16.65	94.5
	202.9	15.42	93.1		244.8	16.70	94.5
	204.1	15.46	93.2		245.9	16.76	94.5
	205.3	15.48	93.2		247.1	16.83	94.6
	206.4	15.43	93.3		248.3	16.86	94.6
	207.6	15.39	93.3		249.4	16.89	94.7
	208.8	15.43	93.3		250.6	16.95	94.7
	209.9	15.48	93.4		251.8	17.01	94.7
	211.1	15.50	93.4		252.9	17.07	94.8
	212.3	15.41	93.5		254.1	17.13	94.8
	213.4	15.23	93.5		255.3	17.20	94.8
	214.6	15.20	93.5		256.4	17.25	94.9
	215.8	15.29	93.6		257.6	17.28	94.9
	216.9	15.36	93.6		258.8	17.32	94.9
	218.1	15.41	93.6		259.9	17.38	95.0
	219.3	15.47	93.7		261.1	17.43	95.0
	220.4	15.54	93.7		262.3	17.48	95.0
	220.6	15.55	93.7		263.4	17.54	95.1
	220.8	15.56	93.7		264.6	17.60	95.1
Shut-In(2)	220.9	15.57	93.7		265.8	17.65	95.1
	221.1	15.57	93.8		266.9	17.69	95.2
	221.3	15.58	93.8		268.1	17.74	95.2
	221.4	15.59	93.8		269.3	17.80	95.2
	222.6	15.66	93.8		270.4	17.83	95.3
	223.8	15.74	93.8		271.6	17.88	95.3
	224.9	15.78	93.9		272.8	17.94	95.3
	226.1	15.82	93.9		273.9	17.98	95.4
	227.3	15.87	94.0		275.1	18.03	95.4
	228.4	15.92	94.0		276.3	18.09	95.4
	229.6	15.99	94.0		277.4	18.15	95.5
	230.8	16.06	94.1		278.6	18.21	95.5
	231.9	16.10	94.1		279.8	18.26	95.5
	233.1	16.15	94.1		280.9	18.30	95.6
	234.3	16.21	94.2		282.1	18.35	95.6
	235.4	16.26	94.2		283.3	18.39	95.6
	236.6	16.30	94.3		284.4	18.46	95.7
	237.8	16.34	94.3		285.6	18.52	95.7
	238.9	16.42	94.3		286.8	18.56	95.7
	240.1	16.47	94.4		287.9	18.63	95.8
	241.3	16.53	94.4		289.1	18.69	95.8
	242.4	16.60	94.4		290.3	18.73	95.8

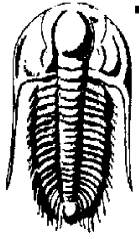
Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	291.4	18.78	95.8		328.8	1215.65	87.3
	292.6	18.83	95.9		329.9	1225.88	86.5
	293.8	18.89	95.9		331.1	1203.33	86.2
	294.9	18.94	95.9		332.3	1202.61	86.1
	296.1	18.98	96.0		333.4	1173.26	85.7
	297.3	19.03	96.0		334.6	1088.09	85.0
	298.4	19.08	96.0		335.8	1089.70	84.3
	299.6	19.12	96.1		336.9	1051.07	83.9
	300.8	19.17	96.1		338.1	966.09	83.4
	301.9	19.20	96.1		339.3	959.10	82.8
	302.6	19.21	96.1		340.4	900.27	82.5
	302.8	19.22	96.1		341.6	867.05	82.1
End Shut-In(2)	302.9	19.22	96.2		342.8	835.60	81.9
	303.1	19.22	96.2		343.9	760.65	81.9
	303.3	19.22	96.2		345.1	743.64	81.7
	303.4	19.23	96.2		346.3	672.51	80.9
	304.6	1674.31	97.1		347.4	651.63	79.3
	304.8	1668.55	97.5		348.6	562.73	78.4
Final Hydro-static	304.9	1672.15	97.7		349.8	560.23	77.2
	305.1	1669.44	97.8		350.9	507.16	76.3
	305.3	1667.13	97.8		352.1	478.63	76.1
	305.4	1664.37	97.8		353.3	438.93	74.3
	306.6	1651.23	97.8		354.4	349.91	73.3
	307.8	1644.05	97.7		355.6	349.07	72.3
	308.9	1675.90	97.7		356.8	319.38	71.4
	310.1	1643.15	97.5		357.9	288.57	70.9
	311.3	1627.24	96.9		359.1	220.16	70.2
	312.4	1616.81	96.8		360.3	197.05	69.5
	313.6	1608.13	96.7		361.4	154.11	68.8
	314.8	1602.37	96.7		362.6	105.58	68.0
	315.9	1605.57	96.7		363.8	75.12	67.3
	317.1	1584.93	95.4		364.9	44.33	67.3
	318.3	1541.28	94.4		366.1	-1.28	67.4
	319.4	1498.40	93.8		367.3	-1.27	67.6
	320.6	1450.72	93.7		368.4	-1.27	67.6
	321.8	1445.12	92.8		369.6	-1.27	67.6
	322.9	1453.24	91.8		370.8	-1.26	67.6
	324.1	1421.02	90.8		371.9	-1.26	67.6
	325.3	1346.16	90.1		373.1	-1.25	67.6
	326.4	1301.46	89.1		374.3	-1.25	67.7
	327.6	1297.25	88.1		375.4	-1.25	67.7

Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	376.6	-1.27	67.7		424.4	-1.70	40.8
	377.8	-1.27	67.7		425.6	-1.68	40.8
	378.9	-1.27	67.7		426.8	-1.66	40.9
	380.1	-1.27	67.7		427.3	-1.95	44.9
	381.3	-1.26	67.6				
	382.4	-1.26	67.6				
	383.6	-1.26	67.6				
	384.8	-1.25	67.6				
	385.9	-1.24	67.6				
	387.1	-1.22	67.6				
	388.3	-1.09	67.6				
	389.4	-0.95	67.5				
	390.6	-0.81	67.4				
	391.8	6.61	67.4				
	392.9	9.76	67.4				
	394.1	10.64	67.4				
	395.3	10.58	67.3				
	396.4	8.25	67.4				
	397.6	5.72	67.4				
	398.8	6.36	67.3				
	399.9	6.48	67.3				
	401.1	6.63	67.3				
	402.3	6.76	67.3				
	403.4	6.82	67.2				
	404.6	4.40	67.3				
	405.8	-0.03	67.2				
	406.9	-1.36	65.3				
	408.1	-1.53	60.5				
	409.3	-1.63	58.0				
	410.4	-1.67	56.5				
	411.6	-1.69	55.0				
	412.8	-1.70	53.6				
	413.9	-1.71	52.4				
	415.1	-1.73	51.2				
	416.3	-1.74	50.1				
	417.4	-1.70	49.1				
	418.6	-1.63	48.3				
	419.8	-1.60	45.8				
	420.9	-1.66	42.5				
	422.1	-1.70	41.5				
	423.3	-1.70	41.1				

Printing every 6 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039995

DST#: 3

Test Start: 2010.12.04 @ 09:43:05

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.38	59.4		90.1	1112.64	83.6
	0.5	-1.12	61.2		91.1	1142.96	83.9
	1.0	-1.97	65.9		92.1	1173.13	84.3
	1.5	-1.88	64.6		93.1	1259.83	84.6
	11.9	-1.98	62.0		94.1	1265.77	84.9
	62.1	194.04	75.9		95.1	1297.86	85.5
	63.1	208.75	76.4		96.1	1467.19	85.8
	64.1	289.99	76.8		97.1	1385.87	86.2
	65.1	279.38	77.3		98.1	1423.34	86.7
	66.1	316.06	77.7		99.1	1454.23	87.1
	67.1	348.40	78.2		100.1	1406.78	87.7
	68.1	360.83	78.5		101.1	1451.91	88.0
	69.1	436.01	78.8		102.1	1577.67	88.2
	70.1	467.68	79.0		103.1	1609.05	88.8
	71.1	468.50	79.2		104.1	1620.81	89.0
	72.1	500.62	79.5		105.1	1637.67	90.0
	73.1	464.27	79.7		106.1	1631.82	90.1
	74.1	640.36	79.9		107.1	1625.89	90.2
	75.1	582.58	80.0		108.1	1657.64	90.1
	76.1	622.41	80.4		109.1	1651.21	90.0
	77.1	652.41	80.6		110.1	1668.93	90.4
	78.1	682.84	80.9		111.1	1662.60	90.5
	79.1	713.85	81.2		112.1	1656.58	90.6
	80.1	743.98	81.6		113.1	1650.95	90.6
	81.1	838.60	82.0		114.1	1651.10	90.6
	82.1	835.88	82.3		115.1	1650.12	90.6
	83.1	833.47	82.3		116.1	1657.48	90.6
	84.1	897.69	82.5		117.1	1722.88	90.7
	85.1	928.33	82.6		118.1	1678.98	90.7
	86.1	953.59	82.8		119.1	12.25	90.5
	87.1	1040.78	82.9		120.1	12.38	90.5
	88.1	1060.76	83.1		121.1	12.43	90.5
	89.1	1078.94	83.4		122.1	12.36	90.5

Printing every 6 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	123.1	12.40	90.5		164.1	17.04	91.6
	124.1	12.15	90.6		165.1	17.10	91.6
	125.1	12.96	90.6		166.1	17.16	91.6
	126.1	13.19	90.6		167.1	17.24	91.7
	127.1	13.39	90.6		168.1	17.29	91.7
	128.1	13.55	90.6		169.1	17.36	91.7
	129.1	13.70	90.6		170.1	17.45	91.8
	130.1	13.85	90.7		171.1	17.50	91.8
	131.1	14.00	90.7		172.1	17.54	91.9
	132.1	14.13	90.7		173.1	17.60	91.9
	133.1	14.26	90.7		174.1	17.69	91.9
	134.1	14.37	90.7		175.1	17.75	92.0
	135.1	14.48	90.7		176.1	17.81	92.0
	136.1	14.61	90.8		177.1	17.86	92.0
	137.1	14.74	90.8		178.1	17.92	92.1
	138.1	14.86	90.8		179.1	17.98	92.1
	139.1	14.97	90.8		180.1	18.04	92.2
	140.1	15.08	90.9		181.1	18.09	92.2
	141.1	15.18	90.9		182.1	18.10	92.2
	142.1	15.25	90.9		183.1	18.11	92.3
	143.1	15.33	90.9		184.1	13.05	92.3
	144.1	15.44	90.9		185.1	13.09	92.3
	145.1	15.53	91.0		186.1	13.12	92.4
	146.1	15.61	91.0		187.1	13.10	92.4
	147.1	15.70	91.0		188.1	13.10	92.5
	148.1	15.81	91.1		189.1	13.12	92.5
	149.1	15.88	91.1		190.1	13.15	92.5
	150.1	15.96	91.1		191.1	13.12	92.6
	151.1	16.07	91.1		192.1	13.09	92.6
	152.1	16.14	91.2		193.1	13.14	92.6
	153.1	16.23	91.2		194.1	13.21	92.7
	154.1	16.30	91.2		195.1	13.11	92.7
	155.1	16.39	91.3		196.1	13.05	92.8
	156.1	16.46	91.3		197.1	13.08	92.8
	157.1	16.55	91.3		198.1	13.12	92.8
	158.1	16.64	91.4		199.1	13.14	92.9
	159.1	16.71	91.4		200.1	13.11	92.9
	160.1	16.77	91.4		201.1	13.05	92.9
	161.1	16.82	91.5		202.1	13.05	93.0
	162.1	16.88	91.5		203.1	13.11	93.0
	163.1	16.97	91.5		204.1	13.12	93.0

Printing every 6 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	205.1	13.13	93.1		246.1	14.02	94.5
	206.1	13.13	93.1		247.1	14.06	94.5
	207.1	13.06	93.2		248.1	14.10	94.6
	208.1	13.00	93.2		249.1	14.12	94.6
	209.1	13.08	93.2		250.1	14.16	94.6
	210.1	13.14	93.3		251.1	14.18	94.7
	211.1	13.13	93.3		252.1	14.23	94.7
	212.1	13.06	93.3		253.1	14.29	94.7
	213.1	12.91	93.4		254.1	14.33	94.8
	214.1	12.81	93.4		255.1	14.34	94.8
	215.1	12.88	93.4		256.1	14.36	94.8
	216.1	12.92	93.5		257.1	14.39	94.9
	217.1	12.95	93.5		258.1	14.44	94.9
	218.1	13.00	93.6		259.1	14.48	94.9
	219.1	13.03	93.6		260.1	14.50	95.0
	220.1	13.08	93.6		261.1	14.52	95.0
	221.1	13.12	93.7		262.1	14.57	95.0
	222.1	13.15	93.7		263.1	14.60	95.0
	223.1	13.19	93.7		264.1	14.64	95.1
	224.1	13.24	93.8		265.1	14.67	95.1
	225.1	13.28	93.8		266.1	14.71	95.1
	226.1	13.33	93.8		267.1	14.77	95.2
	227.1	13.35	93.9		268.1	14.84	95.2
	228.1	13.38	93.9		269.1	14.92	95.2
	229.1	13.41	93.9		270.1	14.98	95.3
	230.1	13.47	94.0		271.1	15.04	95.3
	231.1	13.50	94.0		272.1	15.16	95.3
	232.1	13.54	94.0		273.1	15.26	95.3
	233.1	13.57	94.1		274.1	15.34	95.4
	234.1	13.59	94.1		275.1	15.37	95.4
	235.1	13.62	94.1		276.1	15.42	95.4
	236.1	13.64	94.2		277.1	15.46	95.5
	237.1	13.68	94.2		278.1	15.52	95.5
	238.1	13.72	94.2		279.1	15.55	95.5
	239.1	13.78	94.3		280.1	15.59	95.6
	240.1	13.83	94.3		281.1	15.65	95.6
	241.1	13.87	94.3		282.1	15.71	95.6
	242.1	13.91	94.4		283.1	15.74	95.6
	243.1	13.93	94.4		284.1	15.77	95.7
	244.1	13.98	94.4		285.1	15.81	95.7
	245.1	14.01	94.5		286.1	15.85	95.7

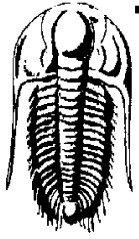
Printing every 6 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	287.1	15.89	95.8		328.1	1243.17	87.8
	288.1	15.94	95.8		329.1	1223.33	87.1
	289.1	15.98	95.8		330.1	1224.21	86.5
	290.1	16.03	95.8		331.1	1202.52	86.2
	291.1	16.05	95.9		332.1	1203.02	86.1
	292.1	16.09	95.9		333.1	1186.42	86.0
	293.1	16.12	95.9		334.1	1140.55	85.2
	294.1	16.17	95.9		335.1	1111.74	84.6
	295.1	16.23	96.0		336.1	1080.92	84.1
	296.1	16.26	96.0		337.1	1049.24	83.7
	297.1	16.30	96.0		338.1	976.44	83.3
	298.1	16.34	96.1		339.1	936.39	82.9
	299.1	16.38	96.1		340.1	921.07	82.5
	300.1	16.43	96.1		341.1	895.94	82.2
	301.1	16.47	96.1		342.1	846.21	82.0
	302.1	16.51	96.2		343.1	786.52	81.8
	303.1	16.54	96.2		344.1	761.59	81.8
	304.1	16.50	96.2		345.1	742.01	81.7
	305.1	1669.54	97.8		346.1	699.20	81.2
	306.1	1656.00	98.0		347.1	644.90	79.9
	307.1	1647.30	98.1		348.1	618.51	78.7
	308.1	1641.76	98.1		349.1	589.22	77.8
	309.1	1631.47	97.9		350.1	518.75	77.0
	310.1	1642.95	97.7		351.1	498.70	76.5
	311.1	1626.67	97.4		352.1	470.36	76.5
	312.1	1619.62	96.9		353.1	438.90	75.0
	313.1	1610.98	96.8		354.1	406.89	73.7
	314.1	1604.97	96.8		355.1	377.14	72.8
	315.1	1600.34	96.7		356.1	347.14	72.1
	316.1	1604.95	96.7		357.1	317.62	71.4
	317.1	1584.49	95.5		358.1	286.88	70.9
	318.1	1541.43	94.5		359.1	220.89	70.3
	319.1	1448.52	94.2		360.1	193.87	69.6
	320.1	1508.32	93.8		361.1	165.00	69.1
	321.1	1512.27	93.2		362.1	134.67	68.4
	322.1	1480.57	92.5		363.1	88.00	67.7
	323.1	1451.76	91.7		364.1	73.36	67.2
	324.1	1420.31	90.8		365.1	42.63	67.2
	325.1	1388.63	90.1		366.1	-2.25	67.2
	326.1	1356.80	89.4		367.1	-2.21	67.5
	327.1	1280.97	88.6		368.1	-2.20	67.5

Printing every 6 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	369.1	-2.19	67.5		410.1	-2.44	49.7
	370.1	-2.20	67.5		411.1	-2.47	47.0
	371.1	-2.20	67.5		412.1	-2.50	45.1
	372.1	-2.23	67.5		413.1	-2.52	43.9
	373.1	-2.23	67.5		414.1	-2.51	43.0
	374.1	-2.19	67.5		415.1	-2.49	42.3
	375.1	-2.20	67.5		416.1	-2.50	41.6
	376.1	-2.22	67.5		417.1	-2.46	41.2
	377.1	-2.23	67.5		418.1	-2.44	40.9
	378.1	-2.24	67.5		419.1	-2.43	40.8
	379.1	-2.21	67.5		420.1	-2.38	40.1
	380.1	-2.19	67.5		421.1	-2.38	39.4
	381.1	-2.20	67.5		422.1	-2.41	41.6
	382.1	-2.23	67.5		423.1	-2.39	42.0
	383.1	-2.23	67.5		424.1	-2.38	41.9
	384.1	-2.24	67.5		425.1	-2.33	42.0
	385.1	-2.27	67.5		426.1	-2.36	42.1
	386.1	-2.29	67.5		427.1	-2.03	42.9
	387.1	-2.27	67.5		427.4	-2.45	48.3
	388.1	-2.27	67.5				
	389.1	-2.26	67.5				
	390.1	-2.24	67.5				
	391.1	3.09	67.3				
	392.1	5.74	67.2				
	393.1	8.22	67.1				
	394.1	9.12	67.1				
	395.1	9.10	67.1				
	396.1	6.33	67.1				
	397.1	5.83	67.2				
	398.1	4.86	67.2				
	399.1	4.91	67.3				
	400.1	4.96	67.4				
	401.1	5.07	67.4				
	402.1	5.17	67.4				
	403.1	5.23	67.4				
	404.1	4.90	67.2				
	405.1	2.26	67.2				
	406.1	-2.34	66.9				
	407.1	-2.33	64.9				
	408.1	-2.35	60.1				
	409.1	-2.39	53.7				

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Sam Gary Jr. & Assoc.inc.

Hoss 1-22

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

22-16s-16w Rush Co.

Job Ticket: 039995

DST#: 3

Test Start: 2010.12.04 @ 09:43:05

Serial # 8650 Fluid				Serial # 8650 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.71	69.4		1.6	-0.75	73.5
	0.1	-0.82	69.7		1.7	-0.75	73.5
	0.1	-0.79	69.9		1.8	-0.73	73.4
	0.2	-0.79	70.1		1.8	-0.70	73.3
	0.2	-0.80	70.3		1.9	-0.68	73.2
	0.3	-0.79	70.3		1.9	-0.59	73.0
	0.3	-0.75	70.4		2.0	-0.52	72.9
	0.3	-0.68	70.4		12.0	-0.48	45.5
	0.4	-0.63	70.4		42.0	-0.73	37.1
	0.4	-0.59	70.5		62.5	-0.37	60.9
	0.5	-0.55	70.6		64.0	-0.35	64.6
	0.6	-0.54	70.9		65.5	-0.33	67.5
	0.6	-0.55	71.1		67.0	-0.30	69.9
	0.7	-0.56	71.5		68.5	-0.27	71.9
	0.7	-0.56	71.8		70.0	-0.24	73.5
	0.8	-0.60	72.1		71.5	-0.23	74.8
	0.8	-0.61	72.4		73.0	-0.21	75.7
	0.9	-0.64	72.7		74.5	-0.17	76.5
	0.9	-0.65	73.0		76.0	-0.15	77.2
	0.9	-0.64	73.3		77.5	-0.13	77.8
	1.0	-0.65	73.5		79.0	-0.08	78.4
	1.1	-0.66	73.8		80.5	-0.03	79.0
	1.1	-0.67	74.1		82.0	0.00	79.5
	1.1	-0.69	74.3		83.5	0.04	80.1
	1.2	-0.72	74.4		85.0	0.06	80.8
	1.3	-0.73	74.4		86.5	0.11	81.2
	1.3	-0.75	74.3		88.0	0.15	81.6
	1.4	-0.76	74.3		89.5	0.21	81.9
	1.4	-0.76	74.1		91.0	0.27	82.3
	1.5	-0.76	74.0		92.5	0.31	82.7
	1.5	-0.76	73.8		94.0	0.37	83.2
	1.6	-0.75	73.7		95.5	0.42	83.7
	1.6	-0.75	73.6		97.0	0.47	84.2

Printing every 3 samples

Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	0.52	84.8		160.0	0.48	93.1
	100.0	0.58	85.5		161.5	0.49	93.1
	101.5	0.61	86.2		163.0	0.49	93.1
	103.0	0.64	86.9		164.5	0.49	93.2
	104.5	0.66	87.5		166.0	0.48	93.2
	106.0	0.68	88.2		167.5	0.47	93.3
	107.5	0.67	88.8		169.0	0.47	93.3
	109.0	0.68	89.2		170.5	0.47	93.3
	110.5	0.67	89.7		172.0	0.48	93.4
	112.0	0.66	90.2		173.5	0.48	93.4
	113.5	0.63	90.6		175.0	0.48	93.5
	115.0	0.62	90.9		176.5	0.49	93.5
	116.5	0.60	91.1		178.0	0.47	93.6
	118.0	0.58	91.3		179.5	0.47	93.6
	119.5	0.58	91.4		181.0	0.47	93.6
	121.0	0.58	91.6		182.5	0.45	93.7
	122.5	0.58	91.7		184.0	0.45	93.7
	124.0	0.58	91.8		185.5	0.46	93.8
	125.5	0.59	91.9		187.0	0.46	93.8
	127.0	0.56	92.0		188.5	0.46	93.8
	128.5	0.55	92.1		190.0	0.46	93.9
	130.0	0.54	92.1		191.5	0.46	93.9
	131.5	0.52	92.2		193.0	0.46	93.9
	133.0	0.51	92.2		194.5	0.45	94.0
	134.5	0.51	92.3		196.0	0.46	94.0
	136.0	0.51	92.3		197.5	0.46	94.1
	137.5	0.53	92.4		199.0	0.46	94.1
	139.0	0.53	92.4		200.5	0.46	94.1
	140.5	0.53	92.5		202.0	0.47	94.2
	142.0	0.53	92.5		203.5	0.47	94.2
	143.5	0.52	92.6		205.0	0.46	94.3
	145.0	0.50	92.6		206.5	0.46	94.3
	146.5	0.50	92.6		208.0	0.48	94.3
	148.0	0.51	92.7		209.5	0.47	94.4
	149.5	0.50	92.7		211.0	0.47	94.4
	151.0	0.49	92.8		212.5	0.48	94.5
	152.5	0.49	92.8		214.0	0.47	94.5
	154.0	0.47	92.9		215.5	0.46	94.5
	155.5	0.46	92.9		217.0	0.46	94.6
	157.0	0.47	93.0		218.5	0.45	94.6
	158.5	0.47	93.0		220.0	0.45	94.6

Printing every 3 samples

Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	0.44	94.7		283.0	0.44	96.1
	223.0	0.43	94.7		284.5	0.44	96.1
	224.5	0.43	94.7		286.0	0.42	96.1
	226.0	0.44	94.8		287.5	0.42	96.2
	227.5	0.44	94.8		289.0	0.41	96.2
	229.0	0.45	94.9		290.5	0.40	96.2
	230.5	0.46	94.9		292.0	0.40	96.3
	232.0	0.46	94.9		293.5	0.43	96.3
	233.5	0.46	95.0		295.0	0.42	96.3
	235.0	0.44	95.0		296.5	0.43	96.4
	236.5	0.43	95.0		298.0	0.43	96.4
	238.0	0.43	95.1		299.5	0.43	96.4
	239.5	0.43	95.1		301.0	0.42	96.4
	241.0	0.43	95.2		302.5	0.42	96.5
	242.5	0.44	95.2		304.0	0.41	96.5
	244.0	0.44	95.2		305.5	0.40	96.5
	245.5	0.43	95.3		307.0	0.39	96.6
	247.0	0.43	95.3		308.5	0.37	96.6
	248.5	0.43	95.3		310.0	0.35	96.6
	250.0	0.43	95.4		311.5	0.33	96.4
	251.5	0.44	95.4		313.0	0.31	96.3
	253.0	0.44	95.4		314.5	0.27	96.2
	254.5	0.45	95.5		316.0	0.22	96.1
	256.0	0.45	95.5		317.5	0.15	95.8
	257.5	0.44	95.5		319.0	0.08	95.3
	259.0	0.43	95.6		320.5	0.01	94.8
	260.5	0.43	95.6		322.0	-0.05	94.2
	262.0	0.43	95.6		323.5	-0.11	93.4
	263.5	0.43	95.7		325.0	-0.16	92.6
	265.0	0.45	95.7		326.5	-0.20	91.7
	266.5	0.45	95.7		328.0	-0.25	90.8
	268.0	0.44	95.8		329.5	-0.29	89.8
	269.5	0.41	95.8		331.0	-0.31	88.9
	271.0	0.40	95.8		332.5	-0.33	88.2
	272.5	0.40	95.9		334.0	-0.39	87.5
	274.0	0.40	95.9		335.5	-0.41	86.9
	275.5	0.40	95.9		337.0	-0.46	86.2
	277.0	0.42	96.0		338.5	-0.51	85.6
	278.5	0.42	96.0		340.0	-0.56	85.0
	280.0	0.42	96.0		341.5	-0.62	84.5
	281.5	0.44	96.1		343.0	-0.67	84.1

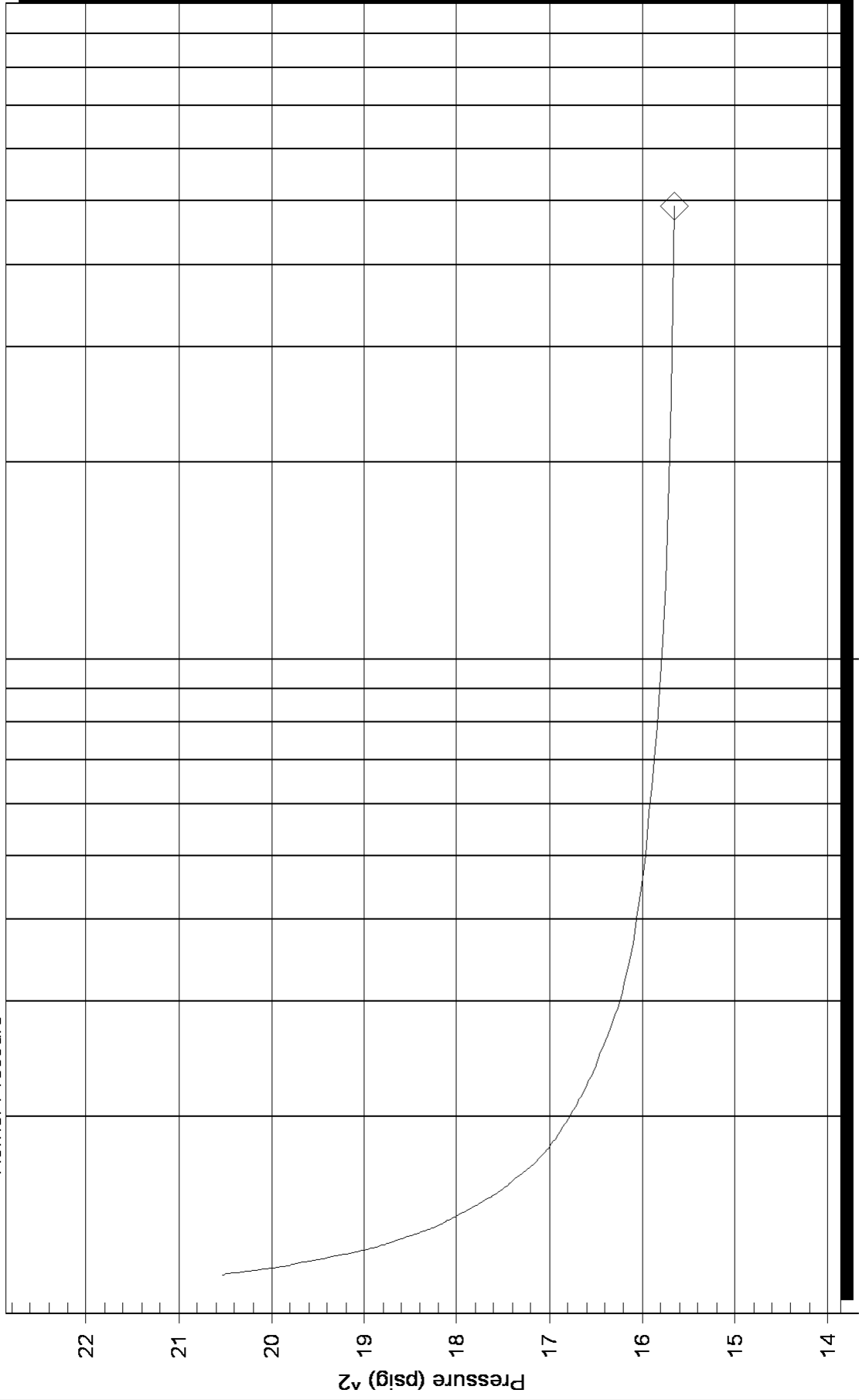
Printing every 3 samples

Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	-0.75	83.7		406.0	-0.99	37.6
	346.0	-0.79	83.0		407.5	-0.99	37.5
	347.5	-0.85	82.2		409.0	-1.02	37.4
	349.0	-0.90	81.4		410.5	-1.04	37.3
	350.5	-0.94	80.5		412.0	-1.04	37.2
	352.0	-0.96	79.5		413.5	-1.03	37.1
	353.5	-1.00	78.5		415.0	-1.01	37.0
	355.0	-1.03	77.5		416.5	-0.93	36.9
	356.5	-1.08	76.6		418.0	-0.85	36.8
	358.0	-1.11	75.8		419.5	-0.78	37.2
	359.5	-1.14	74.9		421.0	-1.07	36.8
	361.0	-1.15	74.1		422.5	-0.72	44.1
	362.5	-1.13	73.3		424.0	-0.68	43.8
	364.0	-1.07	72.5		425.5	-0.68	43.6
	365.5	-1.00	71.8		426.0	-0.72	43.6
	367.0	-0.93	71.2				
	368.5	-0.88	64.6				
	370.0	-0.86	58.7				
	371.5	-0.90	54.1				
	373.0	-0.92	50.8				
	374.5	-0.96	48.0				
	376.0	-0.97	46.0				
	377.5	-0.99	44.1				
	379.0	-1.00	42.8				
	380.5	-1.00	41.9				
	382.0	-1.00	41.0				
	383.5	-1.00	40.4				
	385.0	-1.01	40.0				
	386.5	-1.02	39.6				
	388.0	-1.04	39.4				
	389.5	-1.04	39.2				
	391.0	-1.04	39.0				
	392.5	-1.02	38.8				
	394.0	-1.01	38.6				
	395.5	-1.00	38.5				
	397.0	-1.01	38.3				
	398.5	-1.01	38.1				
	400.0	-1.02	37.9				
	401.5	-1.00	37.8				
	403.0	-0.99	37.7				
	404.5	-0.98	37.6				

Printing every 3 samples

Homer Plot

Horner Pressure



Horner Time: (Twf + dt) / dt

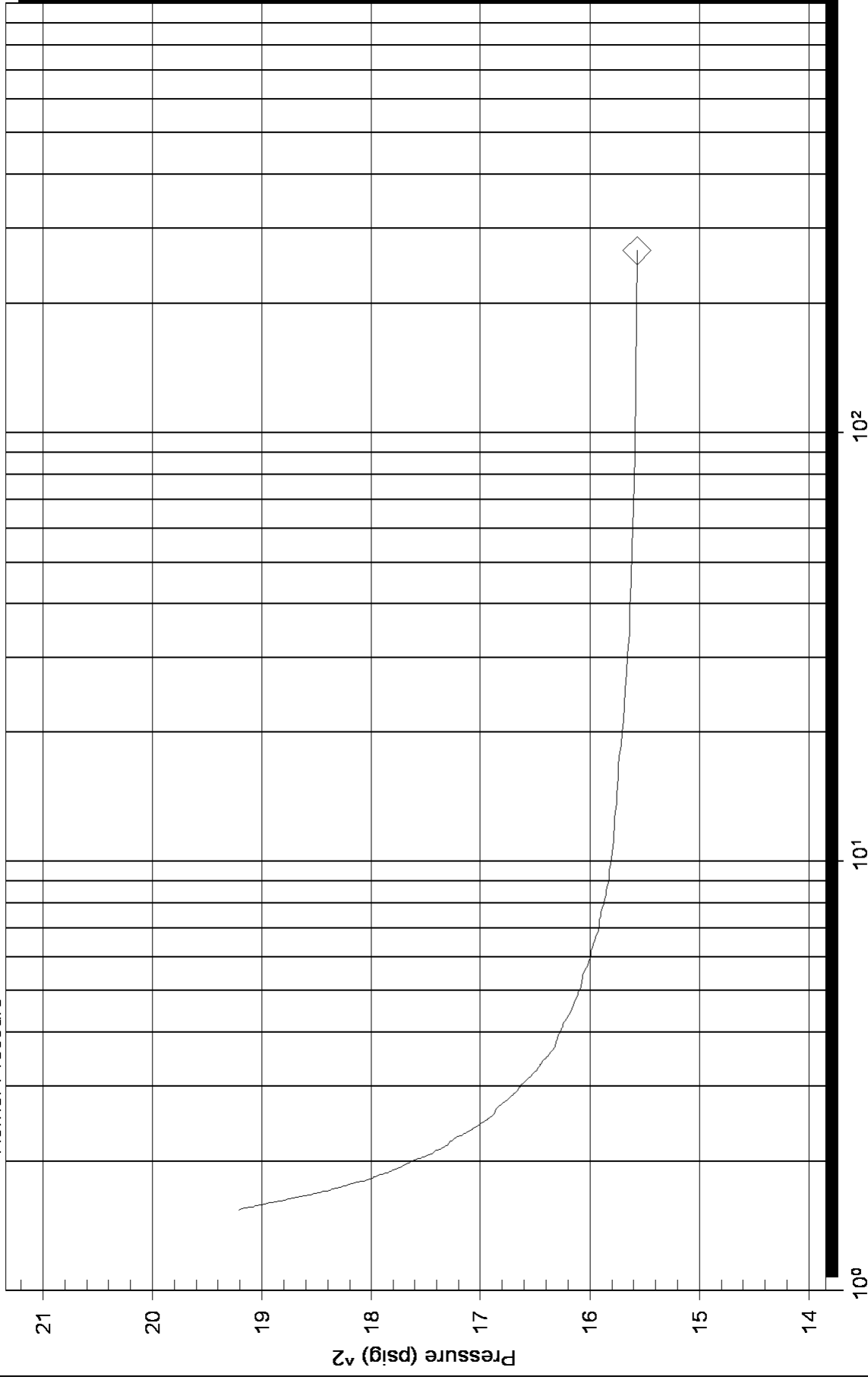
Serial Number: 8352 (Outside)

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

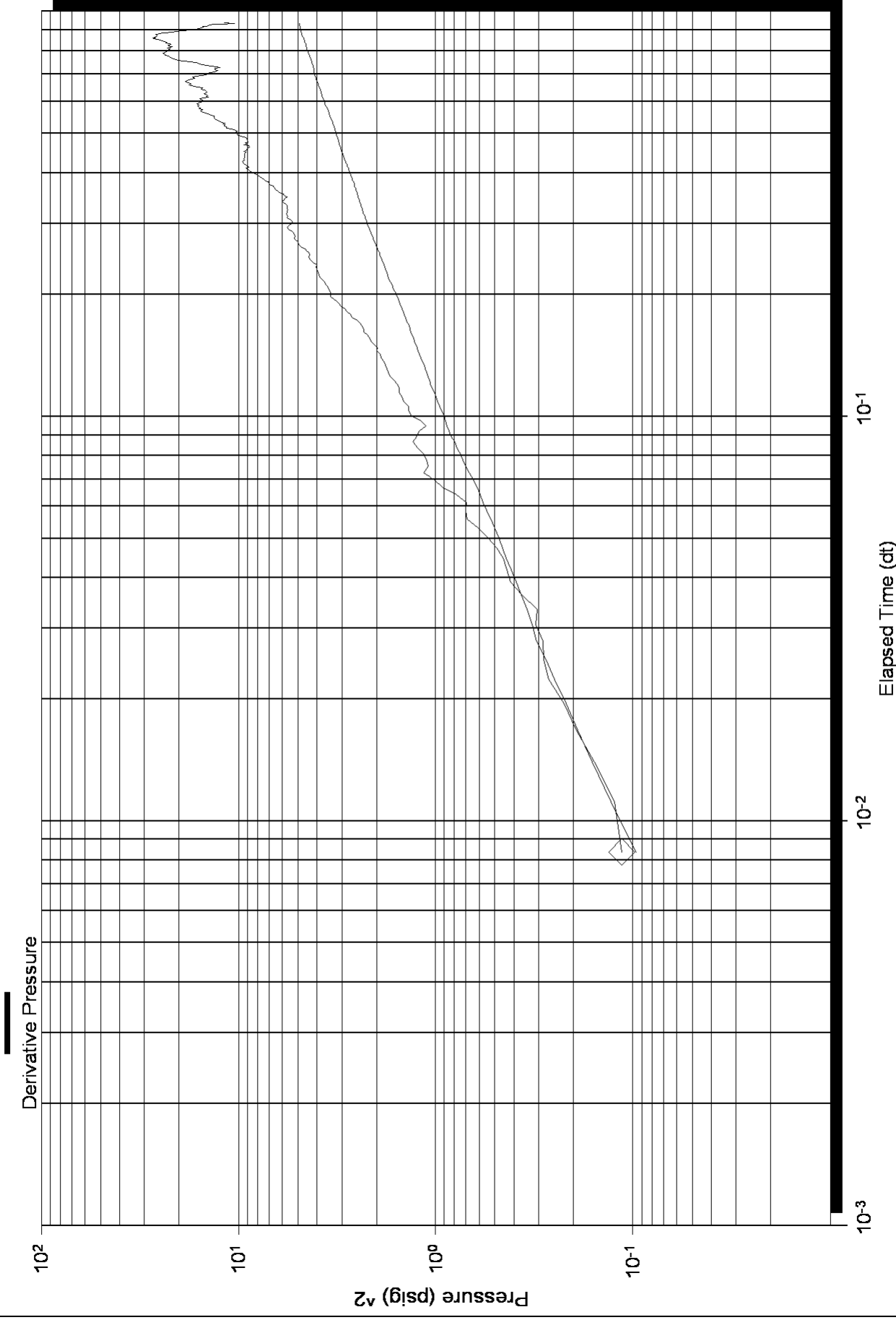
Flow Cycle: 1

Homer Plot

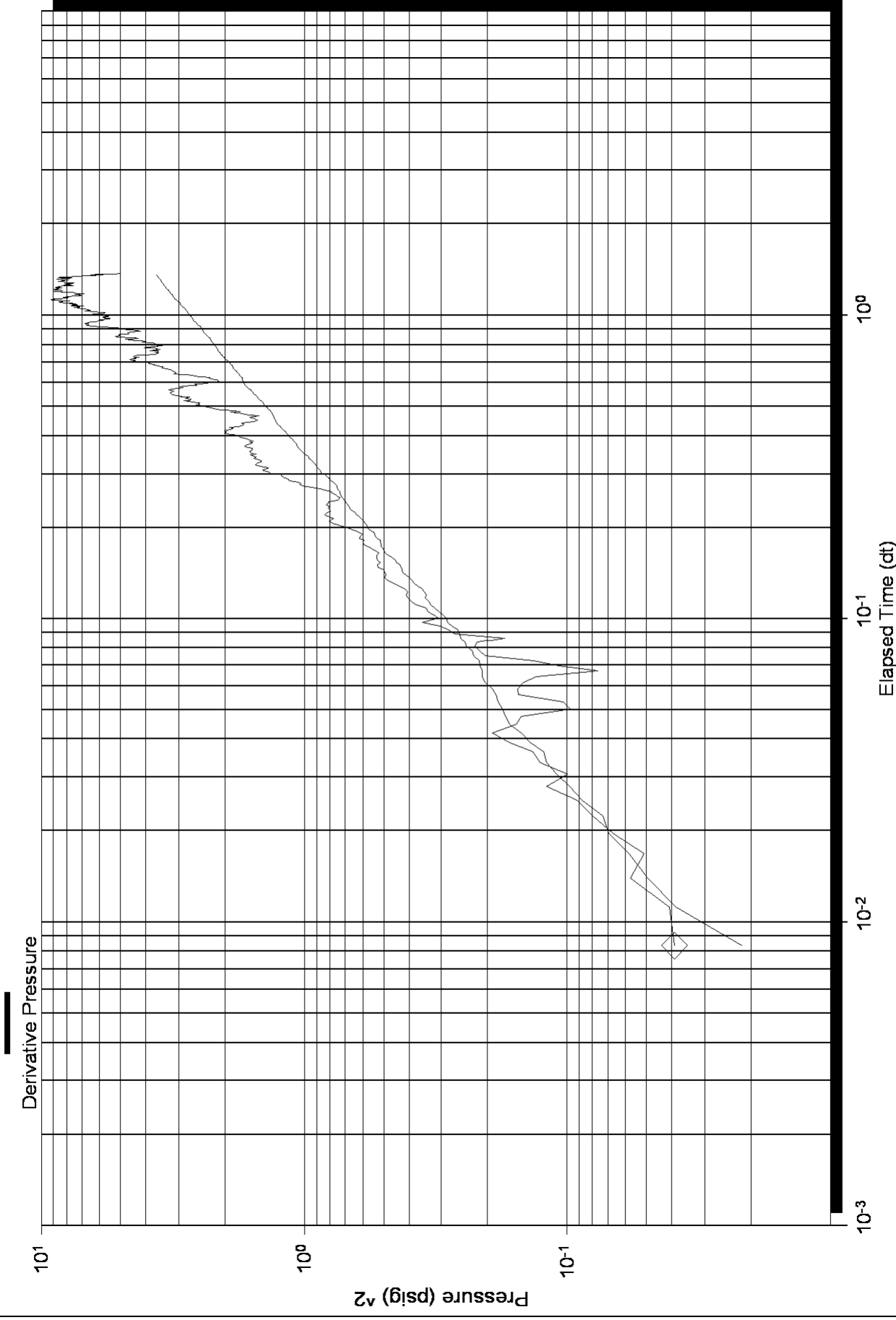
Horner Pressure



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Log-Derivative





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

KANSAS CORPORATION COMMISSION 1048528
OIL & GAS CONSERVATION DIVISION
WELL PLUGGING RECORD
 K.A.R. 82-3-117

Form CP-4
March 2009

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

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

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

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

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

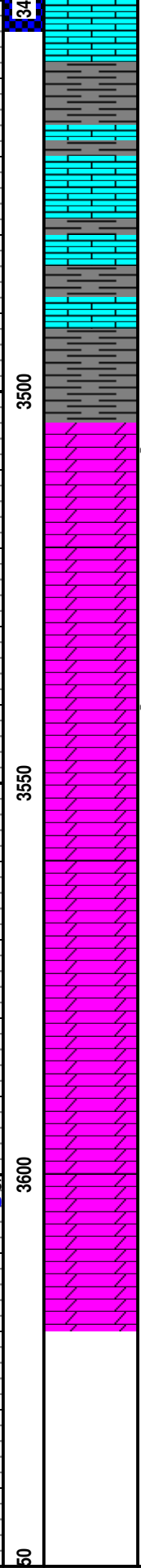
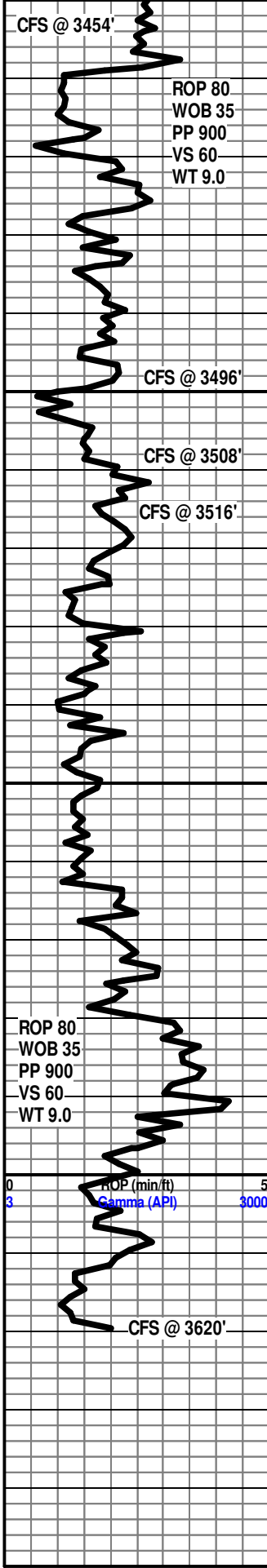
Describe in detail the manner in which the well is plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same depth placed from (bottom), to (top) for each plug set.

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

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

Submitted Electronically

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



ODOR

BASE KANSAS CITY 3458' - 1519'

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

LS- LT TN TO TN CRM, HD DNS FN TO MD XLN REXLN MTRX, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, CHLKY THRU, DLL YEL TO R OF BRIT YEL FLO, NO VIS POR, NO VIS SHO NO VIS CUT

SH- GRY TO DK GRY, SLI FRM TO RED GMMY SHALE

SH- GRY TO DK GRY, SLI FRM TO RED GMMY SHALE

DOL- LT TN TO TN CRM, HD DNS TO BRITT, V/FN TO FN XLN REXLN MTRX, SUCRO TXT, IMBD FOSS FRAGS IP, IMBD CALC XLS, CHLKY THRU, RED SHALE THRU, IMBD DOL XLS IP, DLL TO GLD FLO, FR MICRO PP POR, INST FLUSH CUT, V/STRONG STREAM MLKY BLUE CUT, FR TO GD OIL ODOR, LIVE OIL ON 7 ROCKS

DOL- LT TN TO TN CRM, HD DNS TO BRITT, V/FN TO FN XLN REXLN MTRX, SUCRO TXT, IMBD FOSS FRAGS IP, IMBD CALC XLS, CHLKY THRU, RED SHALE THRU, DOL XLS THRU, DLL TO GLD FLO, NO VIS POR, NO VIS SHOW, NO VIS CUT

DOL- LT TN TO TN CRM, HD DNS, V/FN TO FN XLN REXLN MTRX, SUCRO TXT, IMBD FOSS FRAGS IP, CHLKY THRU, RED SHALE THRU, IMBD DOL XLS THRU, DLL TO BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW, NO VIS CUT

DOL- LT TN TO TN CRM OFF WHT, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX, IMBD DOL XLS THRU, IMBD FOSS FRAGS IP, CHLKY, DLL TO BRIT YELL FLO, PR MICRO PP POR, FR FLUSH CUT TO PR STREAM CUT

DOL- LT TN TO TN CRM OFF WHT, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX, SUCRO TXT THRU, IMBD DOL XLS THRU, IMBD FOSS FRAGS IP, CHLKY, BRIT YELL FLO, TR MICRO PP POR, PR FLUSH CUT TO WEAK STREAM CUT

DOL- LT TN TO TN CRM OFF WHT, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX, SUCRO TXT THRU, IMBD MD DOL XLS THRU, IMBD PYR IP, IMBD FOSS FRAGS IP, CHLKY, BRIT YELL FLO, TR MICRO PP POR, NO VIS SHOW, NO VIS CUT

DOL- LT TN TO TN CRM OFF WHT, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX, SUCRO TXT THRU, IMBD MD DOL XLS THRU, BRIT YELL FLO, TR MICRO PP POR, NO VIS SHOW, NO VIS CUT

DOL- LT TN TO TN CRM OFF WHT, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX, SUCRO TXT THRU, IMBD MD DOL XLS THRU, TR OF CHLK, BRIT YELL MIN FLO, NO VIS POR, NO VIS SHOW, NO VIS CUT

DOL- LT TN TO TN CRM OFF WHT, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX, SUCRO TXT THRU, IMBD LG DOL XLS THRU, BRIT YELL MIN FLO, NO VIS POR, NO VIS SHOW, NO VIS CUT

