



KANSAS CORPORATION COMMISSION 1057607
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- 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: _____



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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	D.L.T. 1-7
Doc ID	1057607

All Electric Logs Run

DEN
IND
MICRO
SONIC

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



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

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

Sam Brownback, Governor

June 13, 2011

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

Re: ACO1
API 15-165-21910-00-00
D.L.T. 1-7
NE/4 Sec.07-16S-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.

Federal Tax I.D.# 20-2886107

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

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

No. 4893

Date <i>2-15-11</i>	Sec.	Twp.	Range	County <i>Picher</i>	State <i>Kansas</i>	On Location	Finish <i>12:30 AM</i>
Lease <i>DLT</i>	Well No. <i>1-7</i>		Location <i>Picher S to Cadmo NE 15 15 15</i>				
Contractor <i>KAL Rig</i>				Owner			
Type Job <i>Surface</i>				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 <i>12 1/4</i>	T.D. <i>1070</i>		Charge To <i>Samuel Brum Jr. & Associates</i>				
Csg. <i>2 3/4</i>	Depth <i>1070</i>		Street				
Tbg. Size	Depth		City				
Tool	Depth		State				
Cement Left in Csg. <i>29</i>	Shoe Joint <i>2 3/4</i>		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace <i>65 1/2</i>		Cement Amount Ordered <i>425 Com 300 29 600</i>				

EQUIPMENT

Pumptrk <i>5</i>	No.	Cementer <i>2</i>		Common
		Helper <i>2</i>		
Bulktrk <i>4</i>	No.	Driver <i>2</i>		Poz. Mix
		Driver <i>2</i>		
Bulktrk	No.	Driver <i>1</i>		Gel.
		Driver <i>1</i>		

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers <i>2, 11 1/2 9.24</i>	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
<i>Cement and Collar</i>	CFL-117 or CD110 CAF 38
	Sand
	Handling
	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	<i>3</i>
Baskets	<i>3</i>
AFU Inserts	
Float Shoe	
Latch Down	
<i>Ball Plate</i>	
Pumptrk Charge	
Mileage	

Handwritten signature and initials

Tax	
Discount	
Total Charge	

X Signatbre



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: 2/26/2011
Invoice # 4820

P.O.#:
Due Date: 3/28/2011
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:
DLT 1-7

Description of Work:
PLUG JOB

<input checked="" type="checkbox"/> DRLG <input type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE <input type="checkbox"/> GG	
Account	8200-145
Well/Prospect	DLT 1-7
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:

	Quantity	Price	Taxable
Labor		\$ 733.07	No
Common-Class A	126	\$ 1,645.45	Yes
Bulk Truck Matl-Material Service Charge	217	\$ 464.56	No
POZ Mix-Standard	84	\$ 413.61	Yes
Pump Truck Mileage-Job to Nearest Camp	23	\$ 245.70	No
Bulk Truck Mileage-Job to Nearest Bulk Plant	23	\$ 143.78	No
Premium Gel (Bentonite)	7	\$ 121.99	Yes
Flo Seal	50	\$ 107.04	Yes

Item	Quantity	Price	Taxable
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Invoice Terms:

Net 30

SubTotal: \$ 3,875.21
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (581.28)

SubTotal for Taxable Items:	\$ 1,944.88
SubTotal for Non-Taxable Items:	\$ 725.94

6.30% Rush County Sales Tax

Total: \$ 3,293.93
 Tax: \$ 122.53
Amount Due: \$ 3,416.45
Applied Payments:
Balance Due: \$ 3,416.45

Thank You For Your Business!

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

MAR 11 2011

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. 4820

Date: 2-23-11	Sec. 7	Twp. 16	Range 16	County Rush	State KS	On Location	Finish 8:00PM
Lease DLT	Well No. 1-7		Location Victoria S to curve 1/2 S 1 E 1 S 1 E 1/2 S 1/2 W 1/2 N				
Contractor Val Energy #6				Owner			
Type Job PTA				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. 3610			Charge To Samuel Gory & Associates			
Csg. 4 1/2 x-hole	Depth 3558'			Street			
Tbg. Size	Depth 1100'			City			
Tool	Depth 450'			State			
Cement Left in Csg.	Shoe Joint			The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line	Displace			Cement Amount Ordered 20 69 49 gel 1/2 lb Flo/SK			

EQUIPMENT

Pumptrk 5 No.	Cementer Brandon	Common 126
Bulktrk 10 No.	Helper Craig	Poz. Mix 84
Bulktrk 11 No.	Driver Gory	Gel. 7

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal 50#
Baskets	Kol-Seal
D/V or Port. Collar	Mud CLR 48
1st mix 50sx @ 3558'	CFL-117 or CD110 CAF 38
2nd mix 50sx @ 1100'	Sand
3rd mix 40sx @ 450'	Handling 217
4th mix 20sx @ 60'	Mileage

FLOAT EQUIPMENT

30sx - RH	Guide Shoe
20sx - MH	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Thank You!

Pumptrk Charge **plug**
Mileage **23**

Tax
Discount
Total Charge

X Signature **Paul J. ...**



DRILL STEM TEST REPORT

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

1515 Wynkoop
Suite 700
Denver Co. 80202

ATTN: Neil Sharp

7-16s-16w Rush KS

DLT 1-7

Start Date: 2011.02.19 @ 17:55:05

End Date: 2011.02.20 @ 01:02:29

Job Ticket #: 041551 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

S.Gary Jr. & Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041551

DST#: 1

Test Start: 2011.02.19 @ 17:55:05

GENERAL INFORMATION:

Formation: **LKC"C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:34:20

Time Test Ended: 01:02:29

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3240.00 ft (KB) To 3288.00 ft (KB) (TVD)

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3288.00 ft (KB) (TVD)

1930.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 46.36 psig @ 3244.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.19

End Date:

2011.02.20

Last Calib.:

2011.02.20

Start Time: 17:55:05

End Time:

01:02:29

Time On Btm:

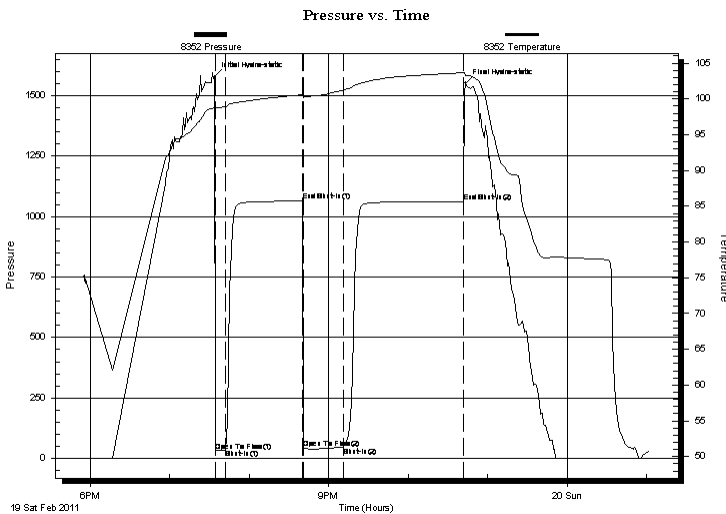
2011.02.19 @ 19:33:50

Time Off Btm:

2011.02.19 @ 22:43:09

TEST COMMENT: IF: Surface blow
IS: No Return
FF: Surface blow
FS: No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.81	98.97	Initial Hydro-static
1	31.38	98.37	Open To Flow (1)
9	36.08	98.93	Shut-In(1)
67	1063.43	100.59	End Shut-In(1)
67	41.64	100.11	Open To Flow (2)
98	46.36	101.25	Shut-In(2)
188	1062.47	103.65	End Shut-In(2)
190	1551.78	103.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	mud w /slight oil specks in tool	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041551

DST#: 1

Test Start: 2011.02.19 @ 17:55:05

Tool Information

Drill Pipe:	Length: 3222.00 ft	Diameter: 3.80 inches	Volume: 45.20 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 45.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3240.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 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
Recorder	0.00	8650	Fluid	3206.00	
Blank Spacing	5.00			3211.00	
Shut In Tool	5.00			3216.00	
Sampler	2.00			3218.00	
Hydraulic tool	5.00			3223.00	
Jars	5.00			3228.00	
Safety Joint	3.00			3231.00	
Packer	5.00			3236.00	34.00 Bottom Of Top Packer
Packer	4.00			3240.00	
Stubb	1.00			3241.00	
Perforations	2.00			3243.00	
Change Over Sub	1.00			3244.00	
Recorder	0.00	8017	Inside	3244.00	
Recorder	0.00	8352	Outside	3244.00	
Drill Pipe	31.00			3275.00	
Change Over Sub	1.00			3276.00	
Perforations	9.00			3285.00	
Bullnose	3.00			3288.00	48.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041551

DST#: 1

Test Start: 2011.02.19 @ 17:55:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 9.19 in³

Resistivity: ohm.m

Salinity: 6500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	mud w /slight oil specks in tool	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

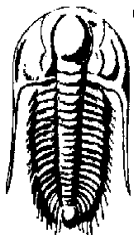
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data=mud-200ml, w ater-800ml



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041551

DST#: 1

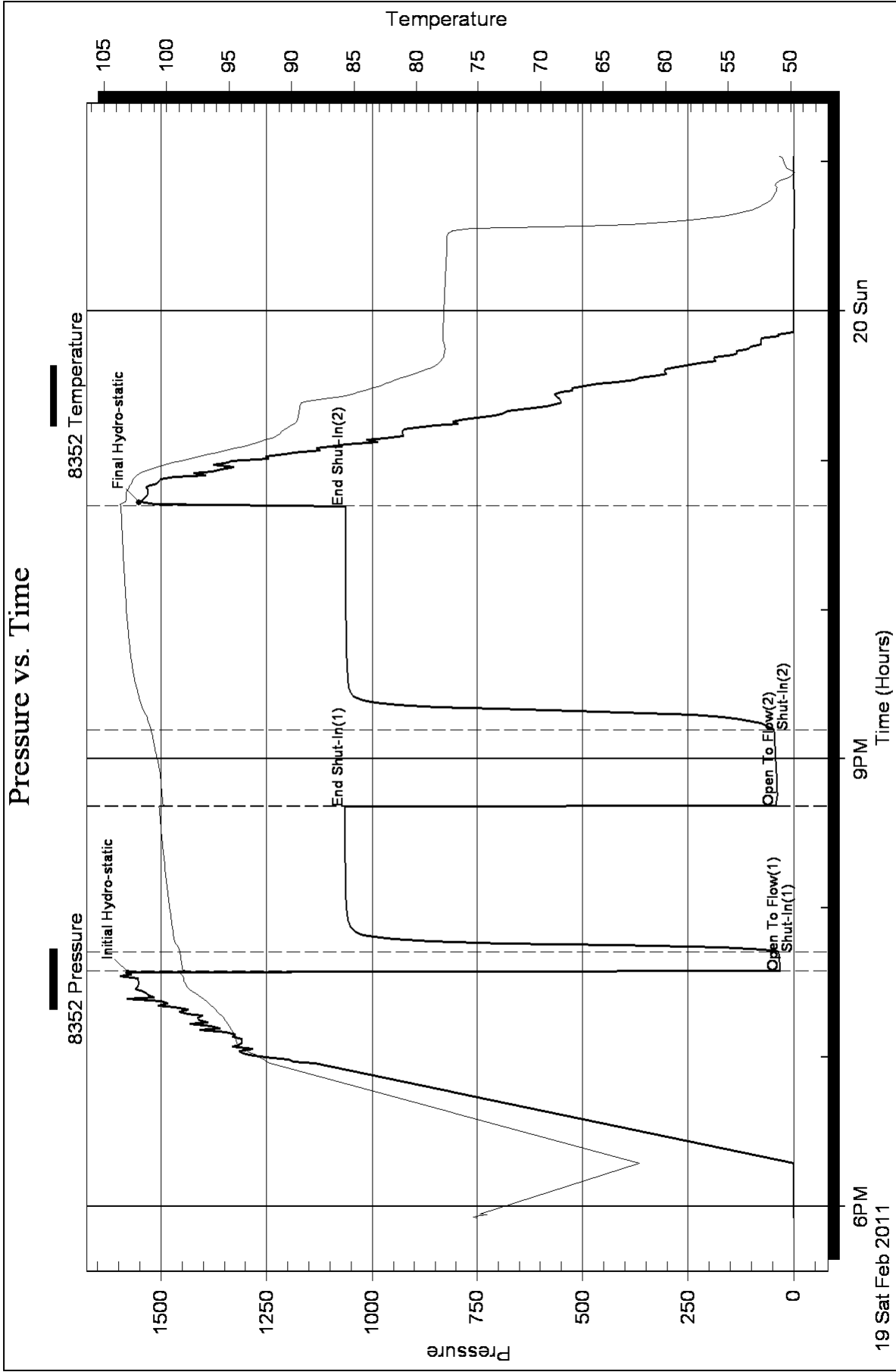
Test Start: 2011.02.19 @ 17:55:05

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



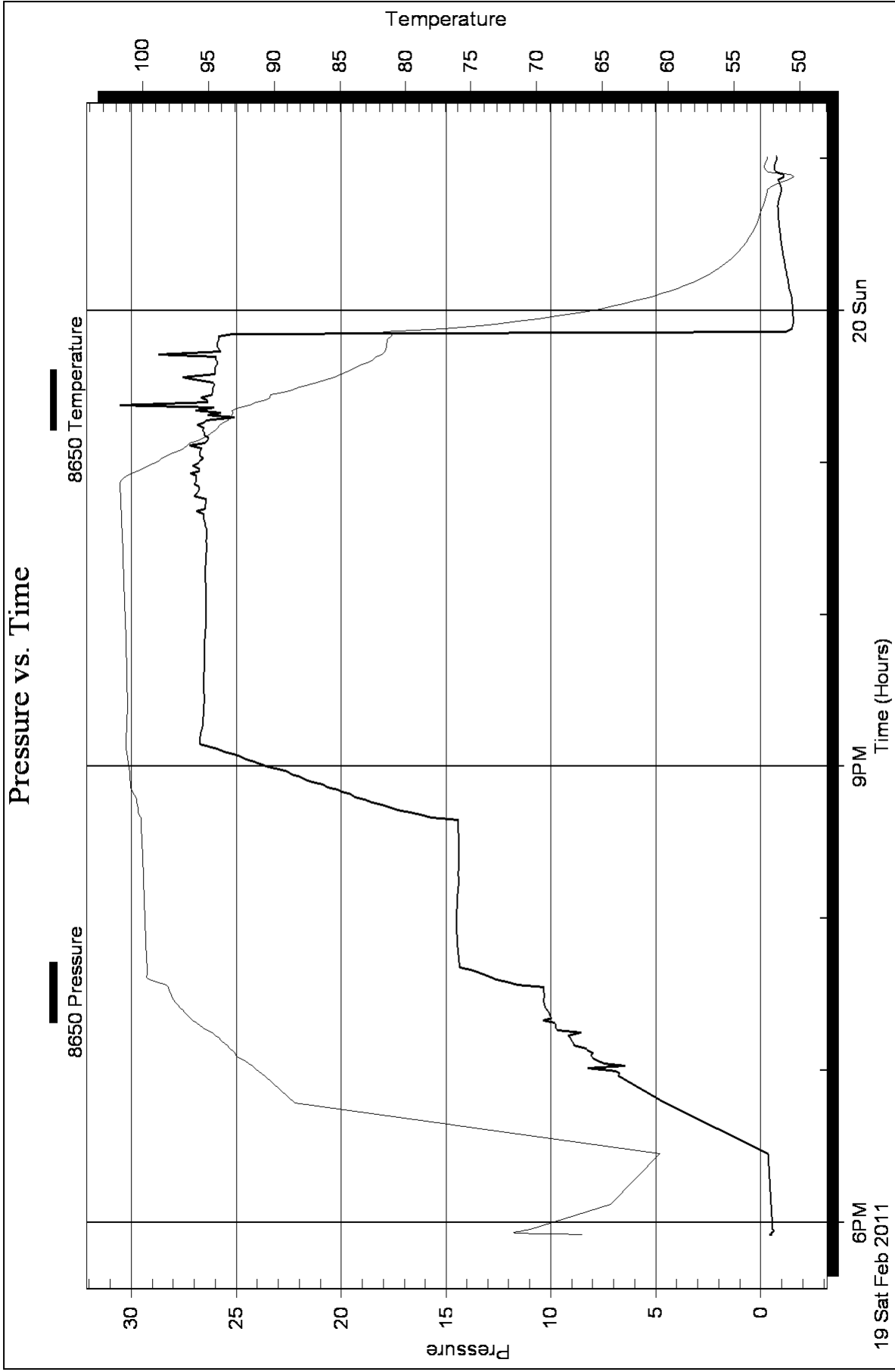
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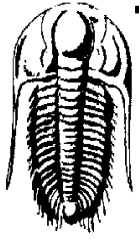
Fluid

S.Gary Jr. & Assoc. inc.

7-16s-16w Rush KS

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

S.Gary Jr.& Assoc. inc.

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

DLT 1-7

7-16s-16w Rush KS

Job Ticket: 041551

DST#: 1

Test Start: 2011.02.19 @ 17:55:05

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.65	75.1		95.6	1553.54	98.6
	0.6	-0.50	75.2		96.8	1559.99	98.7
	1.2	-0.52	74.4		97.9	1569.53	98.8
	1.8	-0.52	74.8		98.4	1575.22	98.9
	51.9	376.73	86.7		98.6	1575.14	98.9
	62.9	1185.13	91.9	Initial Hydro-static	98.8	1577.81	99.0
	64.1	1134.82	92.3		98.9	1577.35	99.0
	65.3	1168.59	92.7		99.1	1577.47	99.0
	66.4	1228.64	93.2	Open To Flow (1)	99.3	31.38	98.4
	67.6	1258.35	93.7		99.4	31.53	98.7
	68.8	1330.63	94.1		99.6	31.75	98.7
	69.9	1313.62	94.4		99.8	31.89	98.7
	71.1	1310.60	94.4		100.9	32.57	98.8
	72.3	1308.47	94.4		102.1	32.59	98.8
	73.4	1326.19	94.5		103.3	33.22	98.8
	74.6	1346.15	94.7		104.4	33.65	98.9
	75.8	1362.53	94.8		105.6	34.97	98.9
	76.9	1375.37	94.9		106.6	35.21	98.9
	78.1	1372.78	95.1		106.8	35.21	98.9
	79.3	1412.30	95.3	Shut-In(1)	106.9	36.08	98.9
	80.4	1414.17	95.4		107.1	40.11	98.9
	81.6	1444.62	95.7		107.3	44.72	98.9
	82.8	1457.90	95.9		107.4	50.19	98.9
	83.9	1481.54	96.1		108.6	139.58	99.0
	85.1	1425.08	96.3		109.8	480.75	99.2
	86.3	1483.13	96.6		110.9	805.49	99.3
	87.4	1498.90	96.9		112.1	949.34	99.4
	88.6	1516.23	97.2		113.3	1006.70	99.4
	89.8	1529.42	97.5		114.4	1031.94	99.5
	90.9	1545.30	97.9		115.6	1044.10	99.5
	92.1	1560.02	98.2		116.8	1050.29	99.5
	93.3	1554.38	98.4		117.9	1053.78	99.6
	94.4	1551.64	98.5		119.1	1055.94	99.6

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)
	120.3	1057.36	99.6	End Shut-In(1)	165.3	1063.43	100.6
	121.4	1058.30	99.7		165.4	1037.04	100.6
	122.6	1058.99	99.7	Open To Flow (2)	165.6	41.64	100.1
	123.8	1059.66	99.7		165.8	40.42	100.3
	124.9	1060.10	99.8		166.9	40.97	100.3
	126.1	1060.81	99.8		168.1	40.11	100.3
	127.3	1061.08	99.8		169.3	39.26	100.4
	128.4	1061.30	99.8		170.4	38.24	100.4
	129.6	1061.52	99.9		171.6	38.36	100.4
	130.8	1061.71	99.9		172.8	38.58	100.4
	131.9	1061.87	99.9		173.9	38.87	100.4
	133.1	1062.01	100.0		175.1	38.87	100.4
	134.3	1062.15	100.0		176.3	39.24	100.5
	135.4	1062.28	100.0		177.4	39.60	100.5
	136.6	1062.38	100.0		178.6	40.01	100.5
	137.8	1062.46	100.1		179.8	40.49	100.6
	138.9	1062.57	100.1		180.9	40.85	100.6
	140.1	1062.65	100.1		182.1	41.23	100.6
	141.3	1062.72	100.1		183.3	41.78	100.7
	142.4	1062.81	100.2		184.4	42.20	100.7
	143.6	1062.88	100.2		185.6	42.65	100.8
	144.8	1062.92	100.2		186.8	42.94	100.8
	145.9	1062.99	100.2		187.9	43.37	100.9
	147.1	1063.05	100.3		189.1	43.84	100.9
	148.3	1063.08	100.3		190.3	44.50	101.0
	149.4	1063.13	100.3		191.4	44.52	101.0
	150.6	1063.20	100.3		192.6	44.90	101.1
	151.8	1063.22	100.4		193.8	45.28	101.1
	152.9	1063.24	100.4		194.9	45.91	101.2
	154.1	1063.29	100.4		195.9	46.11	101.2
	155.3	1063.32	100.4	Shut-In(2)	196.1	46.19	101.2
	156.4	1063.36	100.4		196.3	46.36	101.2
	157.6	1063.38	100.5		196.4	47.81	101.3
	158.8	1063.38	100.5		196.6	49.45	101.3
	159.9	1063.41	100.5		196.8	51.11	101.3
	161.1	1063.45	100.5		197.9	65.50	101.3
	162.3	1063.46	100.5		199.1	86.55	101.4
	163.4	1063.47	100.6		200.3	120.31	101.5
	164.6	1063.48	100.6		201.4	180.62	101.6
	164.9	1063.48	100.6		202.6	300.43	101.7
	165.1	1063.46	100.6		203.8	518.67	101.8

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)
	204.9	765.31	101.9		252.8	1061.69	103.3
	206.1	924.32	102.0		253.9	1061.75	103.3
	207.3	999.20	102.1		255.1	1061.79	103.3
	208.4	1030.54	102.2		256.3	1061.84	103.4
	209.6	1043.52	102.2		257.4	1061.87	103.4
	210.8	1049.31	102.3		258.6	1061.92	103.4
	211.9	1052.31	102.3		259.8	1061.95	103.4
	213.1	1054.04	102.4		260.9	1061.98	103.4
	214.3	1055.22	102.4		262.1	1062.02	103.4
	215.4	1056.03	102.5		263.3	1062.03	103.4
	216.6	1056.70	102.6		264.4	1062.06	103.4
	217.8	1057.19	102.6		265.6	1062.09	103.5
	218.9	1057.62	102.6		266.8	1062.14	103.5
	220.1	1058.32	102.7		267.9	1062.18	103.5
	221.3	1058.35	102.7		269.1	1062.18	103.5
	222.4	1058.94	102.8		270.3	1062.21	103.5
	223.6	1059.15	102.8		271.4	1062.23	103.5
	224.8	1059.36	102.8		272.6	1062.23	103.5
	225.9	1059.57	102.9		273.8	1062.26	103.5
	227.1	1059.76	102.9		274.9	1062.30	103.5
	228.3	1059.92	102.9		276.1	1062.32	103.6
	229.4	1060.09	102.9		277.3	1062.35	103.6
	230.6	1060.22	103.0		278.4	1062.36	103.6
	231.8	1060.35	103.0		279.6	1062.37	103.6
	232.9	1060.49	103.0		280.8	1062.40	103.6
	234.1	1060.62	103.0		281.9	1062.40	103.6
	235.3	1060.72	103.1		283.1	1062.41	103.6
	236.4	1060.80	103.1		284.3	1062.44	103.6
	237.6	1060.90	103.1		285.4	1062.45	103.6
	238.8	1061.00	103.1		286.1	1062.45	103.6
	239.9	1061.08	103.1		286.3	1062.47	103.7
	241.1	1061.15	103.2	End Shut-In(2)	286.4	1062.47	103.6
	242.3	1061.22	103.2		286.6	1045.53	103.6
	243.4	1061.31	103.2		286.8	1487.67	103.8
	244.6	1061.37	103.2		286.9	1475.44	103.7
	245.8	1061.41	103.2		287.8	1547.08	103.4
	246.9	1061.48	103.2		287.9	1546.14	103.3
	248.1	1061.53	103.3	Final Hydro-static	288.1	1551.78	103.3
	249.3	1061.56	103.3		288.3	1551.14	103.3
	250.4	1061.60	103.3		288.4	1548.80	103.2
	251.6	1061.63	103.3		288.6	1546.76	103.2

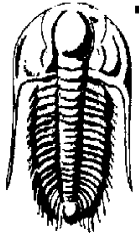
Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	289.8	1537.28	103.2		337.6	377.21	81.4
	290.9	1532.37	103.2		338.8	333.63	80.7
	292.1	1529.64	103.2		339.9	320.45	79.9
	293.3	1528.61	103.1		341.1	316.01	79.3
	294.4	1530.64	103.0		342.3	275.45	78.7
	295.6	1509.21	102.8		343.4	229.45	78.3
	296.8	1503.63	102.7		344.6	184.30	78.0
	297.9	1467.10	102.6		345.8	188.28	77.9
	299.1	1421.65	102.3		346.9	144.72	77.8
	300.3	1377.53	101.9		348.1	136.36	77.8
	301.4	1365.74	101.1		349.3	106.61	77.7
	302.6	1378.99	100.4		350.4	101.58	77.7
	303.8	1339.98	99.5		351.6	76.62	77.8
	304.9	1295.84	98.6		352.8	76.44	77.9
	306.1	1251.78	97.5		353.9	76.20	77.9
	307.3	1207.80	96.5		355.1	36.49	77.9
	308.4	1174.86	95.5		356.3	1.05	77.9
	309.6	1132.41	94.5		357.4	-0.70	77.9
	310.8	1101.19	93.5		358.6	-0.63	77.9
	311.9	1006.72	92.7		359.8	-0.65	77.8
	313.1	947.52	92.1		360.9	-0.65	77.8
	314.3	899.95	91.4		362.1	-0.65	77.8
	315.4	927.32	90.9		363.3	-0.64	77.8
	316.6	893.18	90.8		364.4	-0.63	77.8
	317.8	894.84	90.4		365.6	-0.61	77.8
	318.9	852.88	90.0		366.8	-0.62	77.8
	320.1	810.76	89.7		367.9	-0.64	77.8
	321.3	780.77	89.5		369.1	-0.63	77.8
	322.4	741.93	89.5		370.3	-0.62	77.8
	323.6	720.96	89.4		371.4	-0.64	77.8
	324.8	677.33	89.4		372.6	-0.65	77.7
	325.9	593.67	89.3		373.8	-0.67	77.7
	327.1	569.62	89.3		374.9	-0.70	77.7
	328.3	545.70	89.1		376.1	-0.70	77.7
	329.4	547.41	87.6		377.3	-0.70	77.7
	330.6	567.36	85.7		378.4	-0.72	77.7
	331.8	582.34	84.8		379.6	-0.73	77.7
	332.9	523.56	84.1		380.8	-0.74	77.7
	334.1	486.43	83.3		381.9	-0.74	77.7
	335.3	463.07	82.6		383.1	-0.74	77.6
	336.4	420.66	82.0		384.3	-0.74	77.6

Printing every 7 samples

Serial # 8352 Outside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	385.4	-0.75	77.6				
	386.6	-0.76	77.6				
	387.8	-0.76	77.6				
	388.9	-0.73	77.6				
	390.1	-0.73	77.6				
	391.3	-0.76	77.6				
	392.4	-0.77	77.6				
	393.6	-0.76	77.6				
	394.8	-0.76	77.5				
	395.9	-0.85	77.5				
	397.1	-0.83	77.0				
	398.3	-1.10	70.1				
	399.4	-1.75	63.5				
	400.6	-1.83	59.7				
	401.8	-1.84	57.0				
	402.9	-1.79	55.4				
	404.1	-1.72	54.1				
	405.3	-1.68	53.2				
	406.4	-1.65	52.6				
	407.6	-1.60	52.1				
	408.8	-1.54	51.8				
	409.9	-1.49	51.5				
	411.1	-1.43	51.3				
	412.3	-1.37	51.2				
	413.4	-1.31	51.1				
	414.6	-1.23	51.1				
	415.8	-1.12	51.3				
	416.9	-1.06	51.1				
	418.1	-1.03	50.3				
	419.3	-1.01	49.9				
	420.4	-1.01	49.7				
	421.6	-1.01	50.1				
	422.8	-1.01	50.3				
	423.9	-1.01	50.5				
	425.1	-1.04	50.6				
	426.3	-1.02	50.7				
	427.4	-1.06	53.0				

Printing every 6 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041551

DST#: 1

Test Start: 2011.02.19 @ 17:55:05

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.94	73.2		90.1	1475.20	97.9
	0.5	-2.08	73.8		91.1	1543.90	98.3
	1.0	-1.96	73.2		92.1	1559.77	98.6
	1.5	-1.95	72.8		93.1	1554.41	98.7
	11.9	-1.98	73.9		94.1	1550.94	98.7
	62.1	1111.18	91.9		95.1	1553.03	98.8
	63.1	1114.78	92.1		96.1	1552.36	98.8
	64.1	1133.88	92.5		97.1	1588.11	98.8
	65.1	1168.46	92.8		98.1	1570.74	98.9
	66.1	1195.53	93.2		99.1	1576.47	99.1
	67.1	1315.37	93.6		100.1	29.31	98.8
	68.1	1338.90	93.9		101.1	29.84	98.8
	69.1	1291.01	94.1		102.1	30.14	98.8
	70.1	1310.76	94.4		103.1	30.78	98.8
	71.1	1309.79	94.5		104.1	30.96	98.8
	72.1	1307.39	94.5		105.1	31.69	98.8
	73.1	1329.01	94.6		106.1	32.35	98.9
	74.1	1344.65	94.6		107.1	36.61	98.9
	75.1	1339.84	94.8		108.1	79.51	98.9
	76.1	1360.21	94.9		109.1	235.28	99.0
	77.1	1379.64	95.0		110.1	579.55	99.1
	78.1	1449.80	95.1		111.1	827.16	99.2
	79.1	1458.53	95.3		112.1	945.06	99.2
	80.1	1405.81	95.4		113.1	998.42	99.3
	81.1	1418.12	95.6		114.1	1024.55	99.3
	82.1	1436.31	95.9		115.1	1038.10	99.3
	83.1	1454.43	96.1		116.1	1045.69	99.4
	84.1	1470.51	96.3		117.1	1050.07	99.4
	85.1	1464.00	96.5		118.1	1052.64	99.4
	86.1	1483.30	96.7		119.1	1054.26	99.5
	87.1	1500.04	97.0		120.1	1055.46	99.5
	88.1	1548.41	97.1		121.1	1056.48	99.5
	89.1	1531.27	97.5		122.1	1057.21	99.6

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	1057.67	99.6		164.1	1062.01	100.7
	124.1	1058.25	99.6		165.1	1062.01	100.7
	125.1	1058.93	99.7		166.1	37.30	100.5
	126.1	1058.85	99.7		167.1	38.50	100.5
	127.1	1059.47	99.7		168.1	37.72	100.5
	128.1	1059.71	99.8		169.1	36.64	100.5
	129.1	1059.90	99.8		170.1	35.69	100.5
	130.1	1060.11	99.8		171.1	35.71	100.5
	131.1	1060.30	99.9		172.1	35.90	100.5
	132.1	1060.42	99.9		173.1	35.82	100.6
	133.1	1060.53	99.9		174.1	36.38	100.6
	134.1	1060.65	100.0		175.1	36.34	100.6
	135.1	1060.74	100.0		176.1	36.59	100.6
	136.1	1060.85	100.0		177.1	37.01	100.6
	137.1	1060.95	100.0		178.1	37.34	100.7
	138.1	1061.04	100.1		179.1	37.58	100.7
	139.1	1061.14	100.1		180.1	38.05	100.7
	140.1	1061.21	100.1		181.1	38.31	100.8
	141.1	1061.29	100.2		182.1	38.81	100.8
	142.1	1061.35	100.2		183.1	39.19	100.8
	143.1	1061.44	100.2		184.1	39.60	100.9
	144.1	1061.48	100.2		185.1	39.95	100.9
	145.1	1061.53	100.3		186.1	40.30	100.9
	146.1	1061.57	100.3		187.1	40.60	101.0
	147.1	1061.59	100.3		188.1	40.87	101.0
	148.1	1061.65	100.4		189.1	41.24	101.0
	149.1	1061.71	100.4		190.1	41.66	101.1
	150.1	1061.75	100.4		191.1	42.33	101.1
	151.1	1061.79	100.4		192.1	42.34	101.1
	152.1	1061.80	100.5		193.1	42.56	101.2
	153.1	1061.81	100.5		194.1	42.95	101.2
	154.1	1061.84	100.5		195.1	43.46	101.2
	155.1	1061.88	100.5		196.1	43.58	101.3
	156.1	1061.91	100.5		197.1	51.68	101.3
	157.1	1061.92	100.6		198.1	64.77	101.4
	158.1	1061.94	100.6		199.1	82.90	101.4
	159.1	1061.97	100.6		200.1	110.35	101.4
	160.1	1061.99	100.6		201.1	154.27	101.5
	161.1	1062.01	100.7		202.1	231.66	101.5
	162.1	1062.02	100.7		203.1	373.02	101.6
	163.1	1062.02	100.7		204.1	582.88	101.7

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)
	205.1	786.55	101.8		246.1	1059.59	103.1
	206.1	919.37	101.9		247.1	1059.65	103.1
	207.1	989.01	101.9		248.1	1059.69	103.1
	208.1	1022.08	102.0		249.1	1059.71	103.2
	209.1	1037.61	102.1		250.1	1059.74	103.2
	210.1	1045.10	102.1		251.1	1059.79	103.2
	211.1	1048.79	102.1		252.1	1059.81	103.2
	212.1	1050.88	102.2		253.1	1059.84	103.2
	213.1	1052.29	102.2		254.1	1059.87	103.2
	214.1	1053.23	102.3		255.1	1059.91	103.2
	215.1	1053.95	102.3		256.1	1059.94	103.3
	216.1	1054.56	102.3		257.1	1059.97	103.3
	217.1	1055.04	102.4		258.1	1059.98	103.3
	218.1	1055.35	102.4		259.1	1060.02	103.3
	219.1	1055.88	102.4		260.1	1060.06	103.3
	220.1	1056.15	102.5		261.1	1060.10	103.3
	221.1	1056.74	102.5		262.1	1060.11	103.3
	222.1	1056.99	102.5		263.1	1060.13	103.4
	223.1	1057.18	102.6		264.1	1060.13	103.4
	224.1	1057.39	102.6		265.1	1060.15	103.4
	225.1	1057.58	102.6		266.1	1060.15	103.4
	226.1	1057.79	102.7		267.1	1060.18	103.4
	227.1	1057.97	102.7		268.1	1060.23	103.4
	228.1	1058.12	102.7		269.1	1060.26	103.4
	229.1	1058.23	102.7		270.1	1060.28	103.5
	230.1	1058.38	102.8		271.1	1060.28	103.5
	231.1	1058.50	102.8		272.1	1060.30	103.5
	232.1	1058.60	102.8		273.1	1060.33	103.5
	233.1	1058.71	102.8		274.1	1060.35	103.5
	234.1	1058.82	102.9		275.1	1060.34	103.5
	235.1	1058.91	102.9		276.1	1060.36	103.5
	236.1	1058.99	102.9		277.1	1060.37	103.5
	237.1	1059.07	102.9		278.1	1060.37	103.5
	238.1	1059.17	103.0		279.1	1060.37	103.6
	239.1	1059.23	103.0		280.1	1060.38	103.6
	240.1	1059.28	103.0		281.1	1060.41	103.6
	241.1	1059.34	103.0		282.1	1060.41	103.6
	242.1	1059.41	103.0		283.1	1060.41	103.6
	243.1	1059.45	103.1		284.1	1060.45	103.6
	244.1	1059.50	103.1		285.1	1060.49	103.6
	245.1	1059.55	103.1		286.1	1060.52	103.6

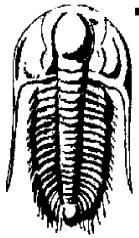
Printing every 6 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	287.1	1515.12	103.8		328.1	536.65	89.2
	288.1	1549.54	103.3		329.1	518.47	87.6
	289.1	1541.35	103.1		330.1	538.99	86.2
	290.1	1535.07	103.0		331.1	537.31	85.1
	291.1	1531.44	103.0		332.1	533.58	84.2
	292.1	1528.71	102.9		333.1	517.29	83.4
	293.1	1529.40	103.0		334.1	478.88	82.7
	294.1	1532.46	102.9		335.1	463.17	82.3
	295.1	1509.12	102.8		336.1	421.51	81.7
	296.1	1506.02	102.8		337.1	380.28	81.0
	297.1	1501.59	102.7		338.1	336.93	80.3
	298.1	1465.89	102.5		339.1	311.82	79.7
	299.1	1420.20	102.1		340.1	323.04	79.1
	300.1	1399.75	101.6		341.1	314.12	78.7
	301.1	1328.93	100.9		342.1	284.65	78.3
	302.1	1338.68	100.1		343.1	254.87	78.0
	303.1	1356.21	99.3		344.1	225.70	77.8
	304.1	1337.42	98.4		345.1	187.07	77.7
	305.1	1294.54	97.5		346.1	187.34	77.7
	306.1	1250.85	96.7		347.1	143.79	77.6
	307.1	1207.09	96.0		348.1	135.15	77.6
	308.1	1169.65	95.2		349.1	131.19	77.6
	309.1	1129.78	94.4		350.1	105.44	77.7
	310.1	1087.26	93.7		351.1	75.13	77.8
	311.1	1034.77	92.9		352.1	75.11	77.8
	312.1	985.75	92.2		353.1	74.90	77.8
	313.1	957.60	91.7		354.1	74.67	77.8
	314.1	949.10	91.2		355.1	34.96	77.8
	315.1	926.51	90.8		356.1	23.90	77.8
	316.1	925.68	90.8		357.1	-2.27	77.8
	317.1	922.10	90.4		358.1	-2.25	77.8
	318.1	895.80	90.1		359.1	-2.26	77.8
	319.1	852.40	89.8		360.1	-2.25	77.8
	320.1	808.68	89.6		361.1	-2.28	77.8
	321.1	776.86	89.5		362.1	-2.30	77.8
	322.1	734.56	89.4		363.1	-2.29	77.8
	323.1	712.85	89.4		364.1	-2.28	77.8
	324.1	652.64	89.4		365.1	-2.29	77.8
	325.1	627.18	89.3		366.1	-2.28	77.7
	326.1	571.50	89.3		367.1	-2.28	77.7
	327.1	564.85	89.3		368.1	-2.28	77.7

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)
	369.1	-2.28	77.7		410.1	-2.39	51.2
	370.1	-2.30	77.7		411.1	-2.39	51.1
	371.1	-2.30	77.7		412.1	-2.37	51.0
	372.1	-2.29	77.7		413.1	-2.36	50.9
	373.1	-2.30	77.7		414.1	-2.39	50.9
	374.1	-2.29	77.7		415.1	-2.38	50.9
	375.1	-2.28	77.7		416.1	-2.31	51.0
	376.1	-2.29	77.7		417.1	-2.29	50.9
	377.1	-2.30	77.7		418.1	-2.31	50.2
	378.1	-2.29	77.7		419.1	-2.32	49.8
	379.1	-2.29	77.7		420.1	-2.35	49.6
	380.1	-2.33	77.7		421.1	-2.36	49.8
	381.1	-2.37	77.6		422.1	-2.36	51.9
	382.1	-2.37	77.6		423.1	-2.29	51.9
	383.1	-2.35	77.6		424.1	-2.25	51.7
	384.1	-2.34	77.6		425.1	-2.23	51.5
	385.1	-2.32	77.6		426.1	-2.26	51.2
	386.1	-2.30	77.6		427.1	-2.18	51.3
	387.1	-2.33	77.6		427.4	-2.32	54.2
	388.1	-2.35	77.6				
	389.1	-2.32	77.6				
	390.1	-2.31	77.6				
	391.1	-2.31	77.6				
	392.1	-2.32	77.5				
	393.1	-2.32	77.5				
	394.1	-2.27	77.5				
	395.1	-2.26	77.5				
	396.1	-2.28	77.5				
	397.1	-2.23	77.1				
	398.1	-2.16	71.4				
	399.1	-2.25	64.4				
	400.1	-2.30	60.7				
	401.1	-2.33	58.0				
	402.1	-2.33	56.0				
	403.1	-2.35	54.7				
	404.1	-2.37	53.6				
	405.1	-2.39	52.9				
	406.1	-2.41	52.3				
	407.1	-2.41	52.0				
	408.1	-2.41	51.6				
	409.1	-2.41	51.4				

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041551

DST#: 1

Test Start: 2011.02.19 @ 17:55:05

Serial # 8650 Fluid				Serial # 8650 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.51	66.6		1.6	-0.65	70.8
	0.1	-0.44	66.9		1.7	-0.65	70.8
	0.1	-0.45	67.4		1.8	-0.65	70.7
	0.2	-0.44	67.9		1.8	-0.65	70.7
	0.2	-0.43	68.4		1.9	-0.60	70.6
	0.3	-0.45	69.2		1.9	-0.60	70.6
	0.3	-0.47	70.0		2.0	-0.57	70.5
	0.3	-0.48	70.6		12.0	-0.49	64.4
	0.4	-0.49	71.0		42.0	-0.13	70.1
	0.4	-0.50	71.3		62.5	6.80	90.7
	0.5	-0.49	71.5		64.0	7.02	91.1
	0.6	-0.49	71.6		65.5	8.22	91.4
	0.6	-0.49	71.7		67.0	7.38	91.8
	0.6	-0.50	71.7		68.5	7.80	92.2
	0.7	-0.51	71.8		70.0	7.99	92.8
	0.8	-0.52	71.8		71.5	7.98	93.0
	0.8	-0.53	71.7		73.0	8.26	93.3
	0.9	-0.54	71.7		74.5	8.87	93.6
	0.9	-0.54	71.7		76.0	8.94	93.9
	0.9	-0.54	71.6		77.5	9.07	94.2
	1.0	-0.55	71.6		79.0	9.15	94.6
	1.0	-0.57	71.5		80.5	9.68	95.0
	1.1	-0.58	71.5		82.0	9.75	95.5
	1.1	-0.60	71.4		83.5	9.82	95.9
	1.2	-0.59	71.4		85.0	9.84	96.3
	1.3	-0.61	71.3		86.5	10.04	96.6
	1.3	-0.62	71.3		88.0	10.14	96.8
	1.4	-0.62	71.2		89.5	10.24	97.1
	1.4	-0.62	71.1		91.0	10.30	97.4
	1.5	-0.63	71.1		92.5	10.31	97.7
	1.5	-0.64	71.0		94.0	10.30	97.8
	1.5	-0.64	71.0		95.5	10.31	97.9
	1.6	-0.65	70.9		97.0	10.34	98.0

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	11.59	98.2		160.0	14.40	100.1
	100.0	12.28	99.2		161.5	14.41	100.1
	101.5	12.84	99.7		163.0	14.38	100.1
	103.0	13.42	99.6		164.5	15.72	100.1
	104.5	13.81	99.6		166.0	16.60	100.3
	106.0	14.34	99.7		167.5	17.31	100.4
	107.5	14.36	99.7		169.0	17.98	100.4
	109.0	14.36	99.7		170.5	18.52	100.4
	110.5	14.39	99.7		172.0	19.19	100.5
	112.0	14.39	99.7		173.5	19.57	100.6
	113.5	14.42	99.7		175.0	20.05	100.8
	115.0	14.42	99.8		176.5	20.67	100.9
	116.5	14.44	99.8		178.0	21.12	100.9
	118.0	14.45	99.8		179.5	21.69	100.9
	119.5	14.45	99.8		181.0	22.19	101.0
	121.0	14.46	99.8		182.5	22.59	101.0
	122.5	14.47	99.8		184.0	23.16	101.0
	124.0	14.47	99.8		185.5	23.87	101.1
	125.5	14.46	99.8		187.0	24.48	101.1
	127.0	14.46	99.8		188.5	24.81	101.2
	128.5	14.46	99.9		190.0	25.43	101.2
	130.0	14.44	99.9		191.5	25.94	101.2
	131.5	14.44	99.9		193.0	26.30	101.3
	133.0	14.44	99.9		194.5	26.75	101.3
	134.5	14.42	99.9		196.0	26.72	101.3
	136.0	14.40	99.9		197.5	26.69	101.2
	137.5	14.39	99.9		199.0	26.66	101.2
	139.0	14.37	99.9		200.5	26.62	101.2
	140.5	14.37	99.9		202.0	26.58	101.2
	142.0	14.40	99.9		203.5	26.57	101.2
	143.5	14.39	100.0		205.0	26.56	101.2
	145.0	14.38	100.0		206.5	26.54	101.2
	146.5	14.38	100.0		208.0	26.54	101.2
	148.0	14.37	100.0		209.5	26.53	101.2
	149.5	14.38	100.0		211.0	26.51	101.2
	151.0	14.38	100.0		212.5	26.51	101.2
	152.5	14.38	100.0		214.0	26.52	101.2
	154.0	14.38	100.0		215.5	26.53	101.2
	155.5	14.38	100.1		217.0	26.54	101.2
	157.0	14.38	100.1		218.5	26.53	101.2
	158.5	14.39	100.1		220.0	26.53	101.2

Printing every 3 samples

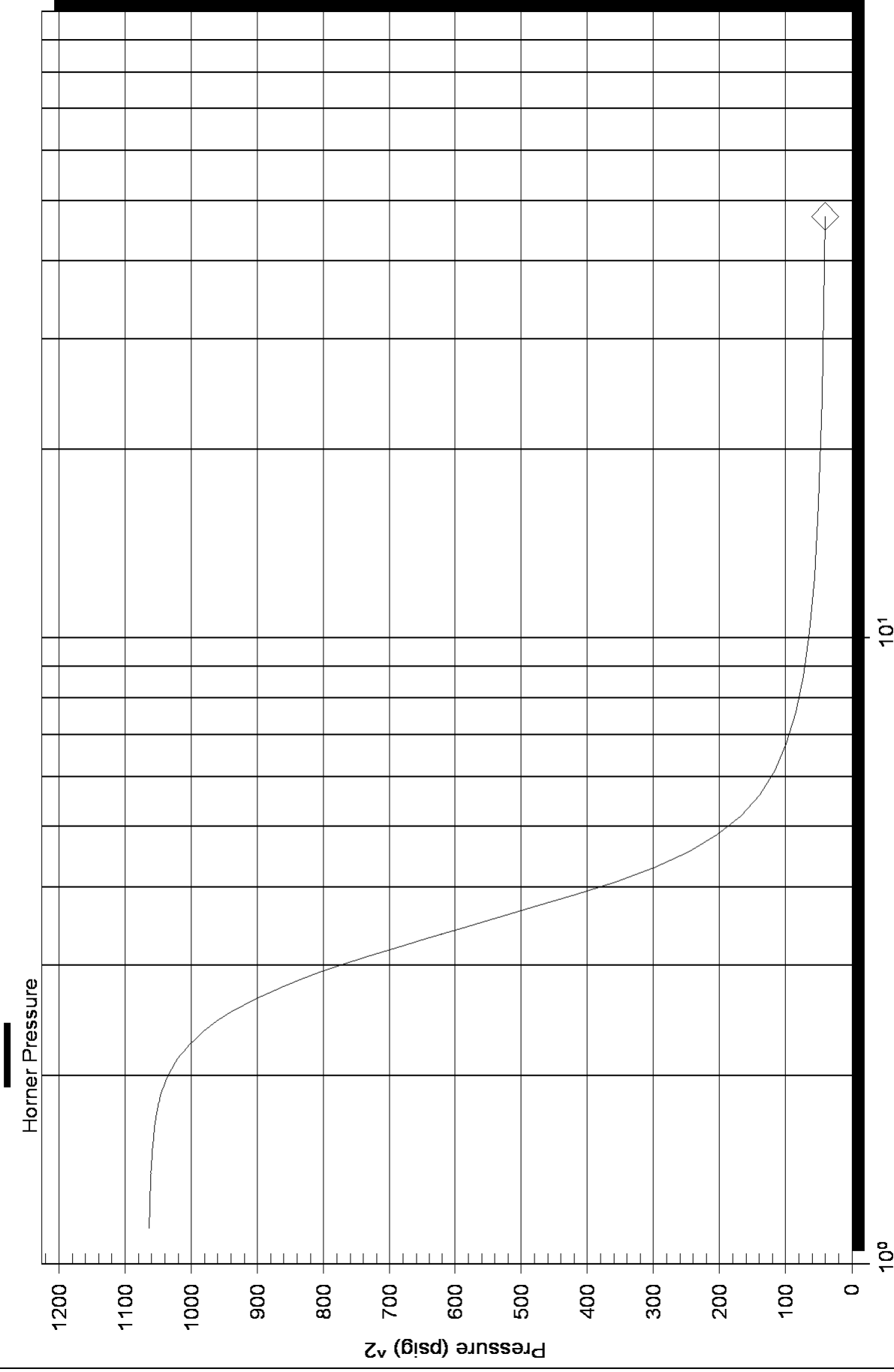
Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	26.53	101.2		283.0	26.53	101.6
	223.0	26.52	101.2		284.5	26.54	101.6
	224.5	26.52	101.2		286.0	26.53	101.6
	226.0	26.51	101.2		287.5	26.48	101.7
	227.5	26.51	101.2		289.0	26.45	101.7
	229.0	26.50	101.2		290.5	26.42	101.7
	230.5	26.51	101.2		292.0	27.84	101.7
	232.0	26.49	101.2		293.5	26.84	101.7
	233.5	26.50	101.3		295.0	26.77	101.7
	235.0	26.49	101.3		296.5	27.01	101.7
	236.5	26.47	101.3		298.0	26.94	101.6
	238.0	26.47	101.3		299.5	26.88	101.2
	239.5	26.46	101.3		301.0	26.80	100.7
	241.0	26.44	101.3		302.5	26.75	100.0
	242.5	26.44	101.3		304.0	27.07	99.3
	244.0	26.43	101.3		305.5	26.71	98.8
	245.5	26.42	101.3		307.0	26.65	98.4
	247.0	26.43	101.4		308.5	26.73	97.7
	248.5	26.43	101.4		310.0	26.66	97.0
	250.0	26.43	101.4		311.5	27.24	96.6
	251.5	26.43	101.4		313.0	26.41	96.3
	253.0	26.43	101.4		314.5	26.32	95.4
	254.5	26.44	101.4		316.0	26.46	94.9
	256.0	26.44	101.4		317.5	26.60	94.5
	257.5	26.45	101.4		319.0	23.86	94.3
	259.0	26.46	101.4		320.5	26.53	93.9
	260.5	26.45	101.4		322.0	26.38	93.5
	262.0	26.46	101.5		323.5	26.35	93.2
	263.5	26.46	101.5		325.0	26.28	93.0
	265.0	26.45	101.5		326.5	26.06	92.6
	266.5	26.44	101.5		328.0	26.36	91.6
	268.0	26.43	101.5		329.5	26.41	90.7
	269.5	26.43	101.5		331.0	26.15	90.4
	271.0	26.42	101.5		332.5	26.16	89.4
	272.5	26.41	101.5		334.0	26.08	88.3
	274.0	26.41	101.5		335.5	26.04	87.4
	275.5	26.41	101.5		337.0	26.07	86.5
	277.0	26.41	101.5		338.5	27.53	85.4
	278.5	26.41	101.6		340.0	26.01	84.7
	280.0	26.47	101.6		341.5	26.01	84.2
	281.5	26.50	101.6		343.0	26.36	83.5

Printing every 3 samples

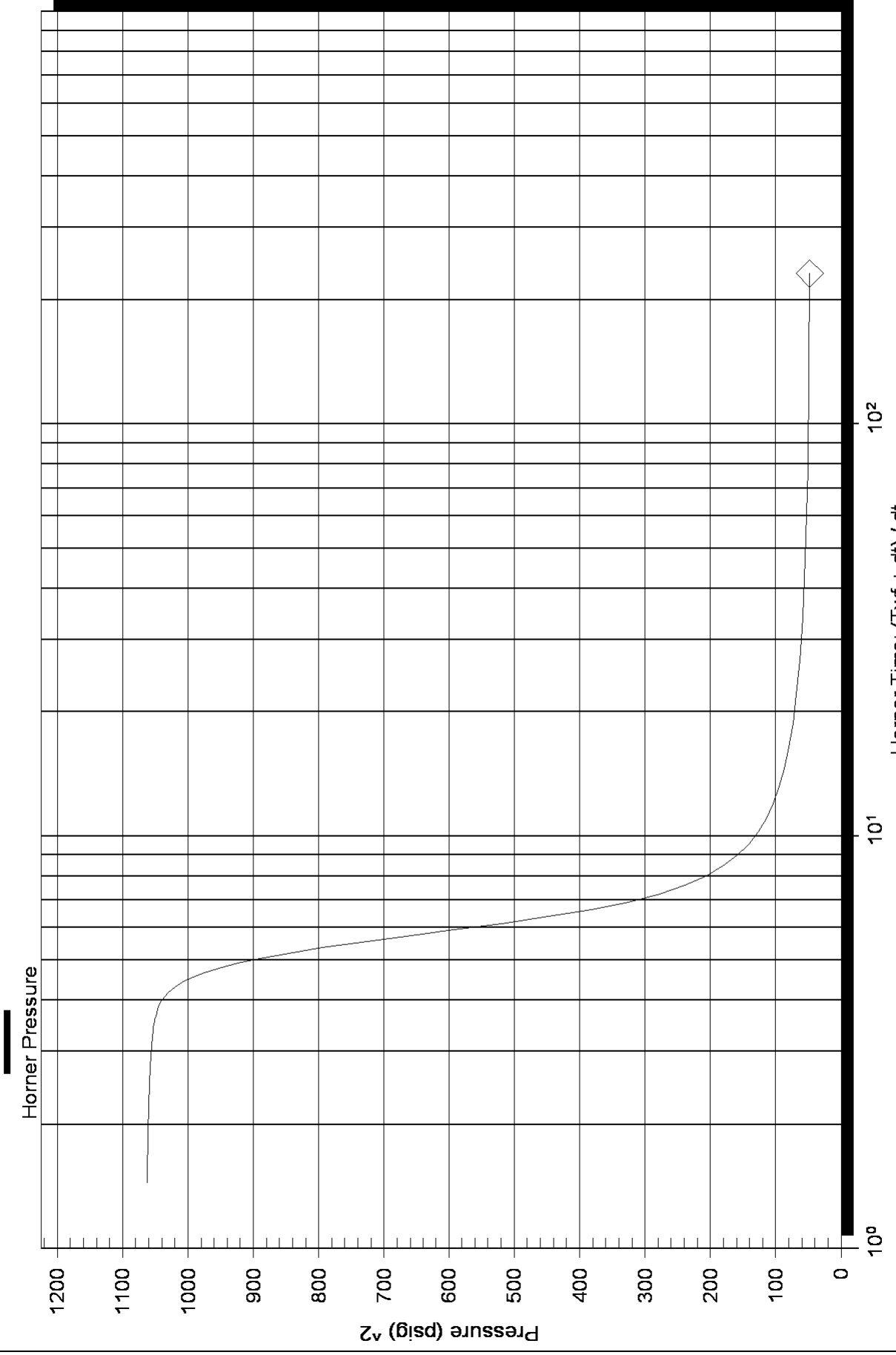
Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	25.88	82.8		406.0	-0.83	52.8
	346.0	27.88	82.3		407.5	-0.84	52.7
	347.5	28.69	81.8		409.0	-0.87	52.6
	349.0	25.75	81.5		410.5	-0.92	52.5
	350.5	25.88	81.4		412.0	-0.98	52.5
	352.0	25.86	81.4		413.5	-0.96	52.2
	353.5	25.83	81.4		415.0	-0.90	51.8
	355.0	25.81	81.1		416.5	-0.83	50.8
	356.5	-1.17	81.7		418.0	-1.11	50.3
	358.0	-1.51	76.0		419.5	-0.72	52.4
	359.5	-1.54	73.1		421.0	-0.67	52.7
	361.0	-1.57	70.6		422.5	-0.68	52.6
	362.5	-1.55	68.5		424.0	-0.72	52.5
	364.0	-1.55	66.7		425.5	-0.74	52.4
	365.5	-1.53	65.2				
	367.0	-1.52	63.8				
	368.5	-1.50	62.6				
	370.0	-1.47	61.4				
	371.5	-1.42	60.4				
	373.0	-1.39	59.6				
	374.5	-1.34	58.8				
	376.0	-1.31	58.1				
	377.5	-1.28	57.5				
	379.0	-1.25	56.9				
	380.5	-1.21	56.4				
	382.0	-1.17	56.0				
	383.5	-1.14	55.6				
	385.0	-1.11	55.3				
	386.5	-1.08	54.9				
	388.0	-1.05	54.7				
	389.5	-1.03	54.4				
	391.0	-1.00	54.2				
	392.5	-0.97	54.0				
	394.0	-0.95	53.8				
	395.5	-0.93	53.6				
	397.0	-0.90	53.5				
	398.5	-0.88	53.3				
	400.0	-0.86	53.2				
	401.5	-0.85	53.1				
	403.0	-0.84	53.0				
	404.5	-0.83	52.9				

Printing every 3 samples

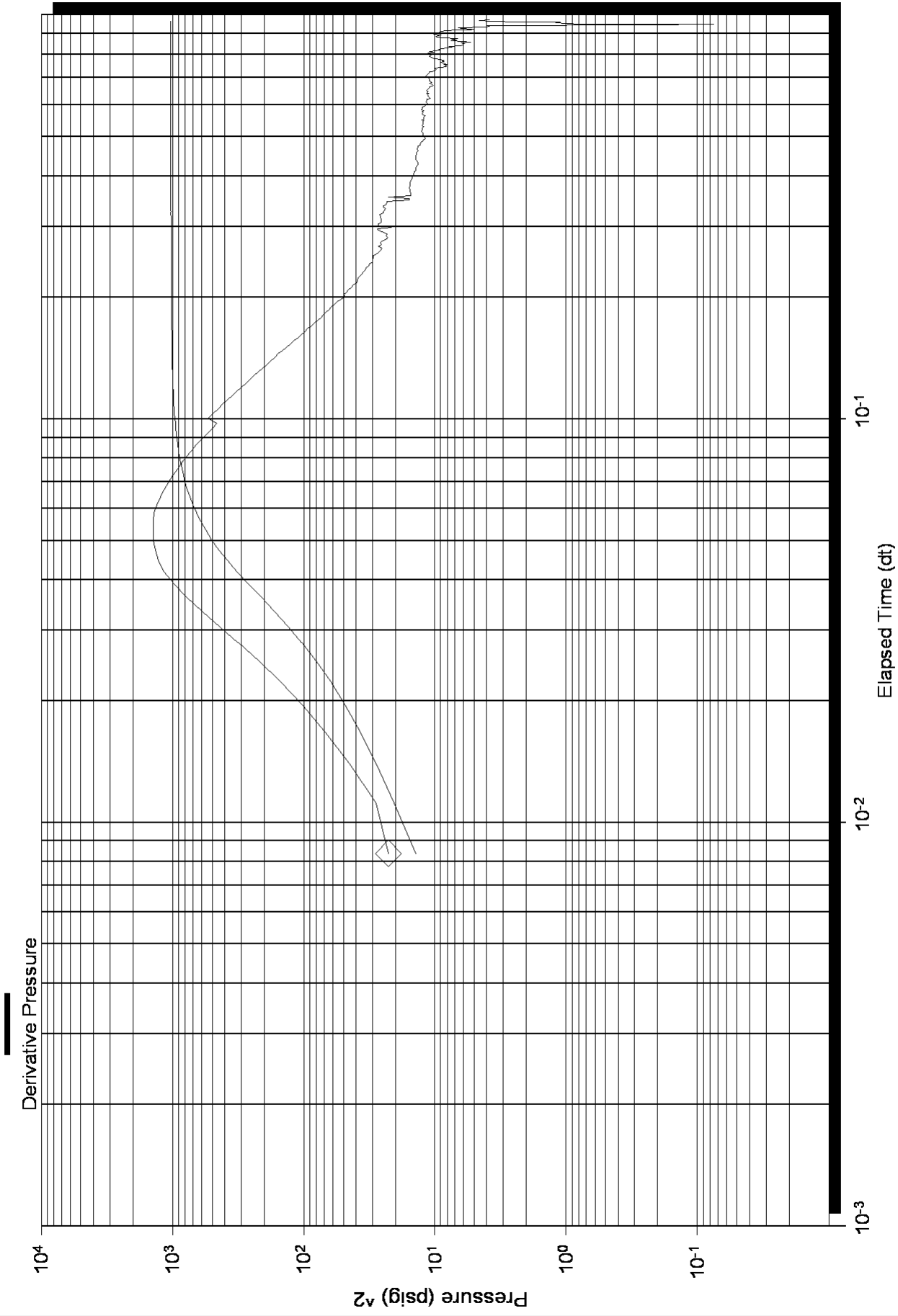
Homer Plot



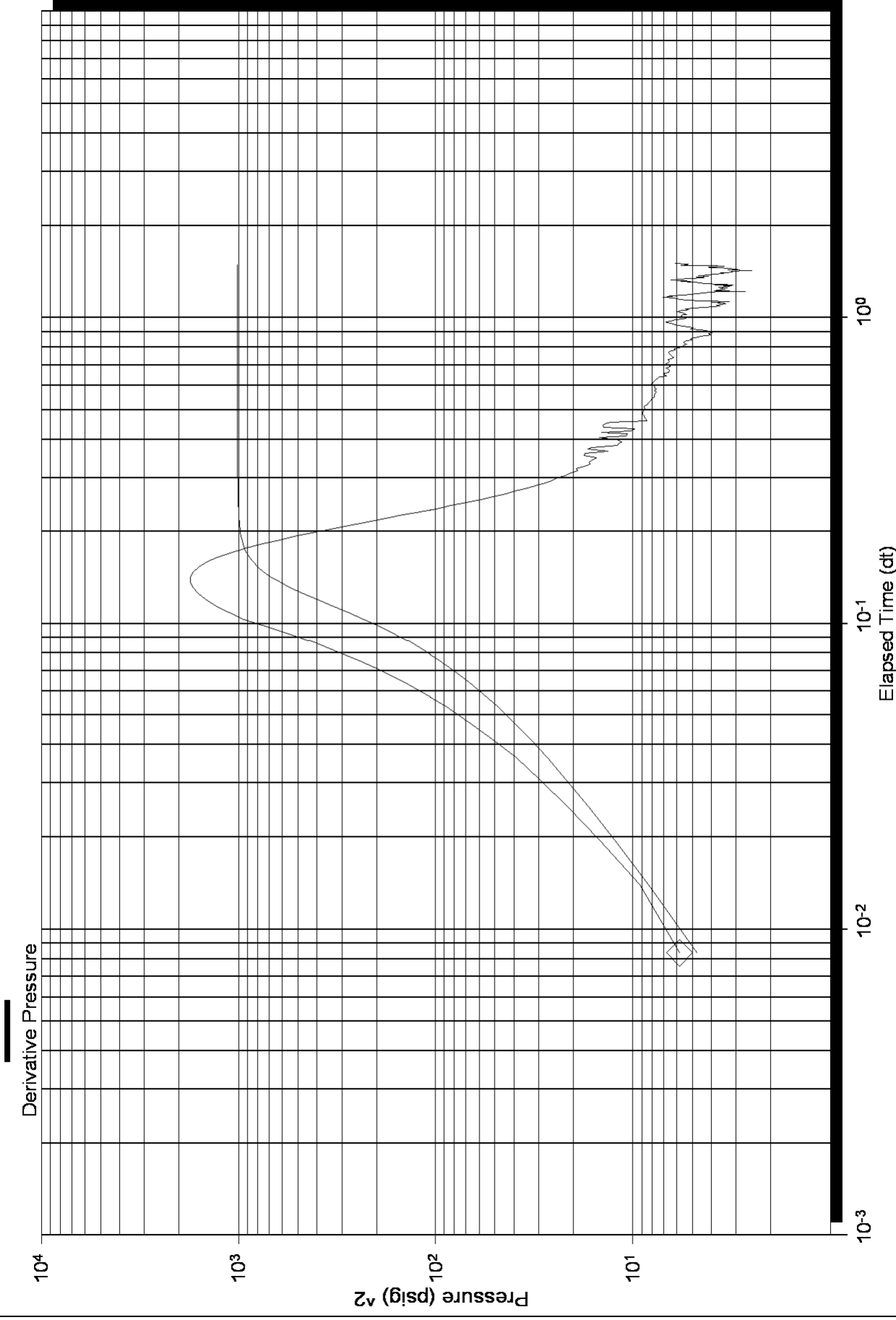
Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

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

1515 Wynkoop
Suite 700
Denver Co. 80202

ATTN: Neil Sharp

7-16s-16w Rush KS

DLT 1-7

Start Date: 2011.02.20 @ 10:50:05

End Date: 2011.02.20 @ 18:03:50

Job Ticket #: 041552 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

S.Gary Jr. & Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

Test Start: 2011.02.20 @ 10:50:05

GENERAL INFORMATION:

Formation: **LKC "F& upper G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:00:10

Time Test Ended: 18:03:50

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3285.00 ft (KB) To 3317.00 ft (KB) (TVD)

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3317.00 ft (KB) (TVD)

1930.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 31.03 psig @ 3286.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.20 End Date: 2011.02.20

Last Calib.: 2011.02.20

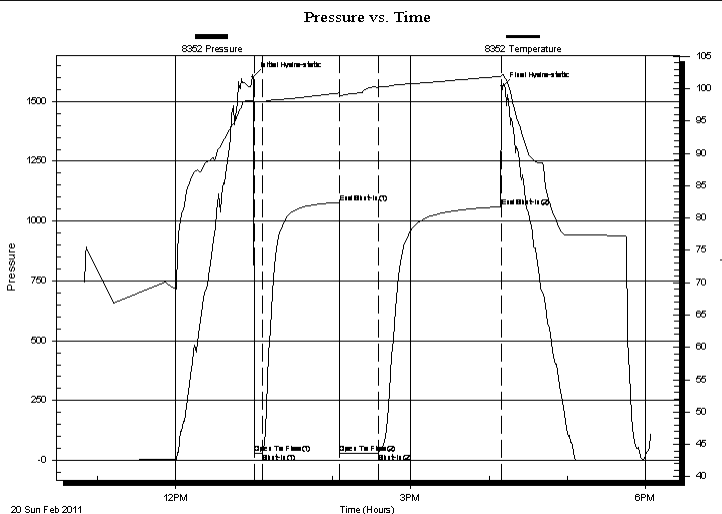
Start Time: 10:50:05 End Time: 18:03:50

Time On Btm: 2011.02.20 @ 12:59:10

Time Off Btm: 2011.02.20 @ 16:10:09

TEST COMMENT: IF: Surface Blow
IS: No Return
FF: No Blow
FS: No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.51	98.12	Initial Hydro-static
1	28.02	97.69	Open To Flow (1)
7	28.48	97.98	Shut-In(1)
66	1077.87	99.33	End Shut-In(1)
67	28.94	98.82	Open To Flow (2)
97	31.03	100.22	Shut-In(2)
190	1060.04	101.89	End Shut-In(2)
191	1562.49	102.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud w / slight oil specks in tool	0.35

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

Test Start: 2011.02.20 @ 10:50:05

GENERAL INFORMATION:

Formation: **LKC "F& upper G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:00:10

Time Test Ended: 18:03:50

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3285.00 ft (KB) To 3317.00 ft (KB) (TVD)

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3317.00 ft (KB) (TVD)

1930.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8017 Inside

Press @ Run Depth: psig @ 3286.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.20

End Date: 2011.02.20

Last Calib.: 2011.02.20

Start Time: 10:50:05

End Time: 18:03:50

Time On Btm:

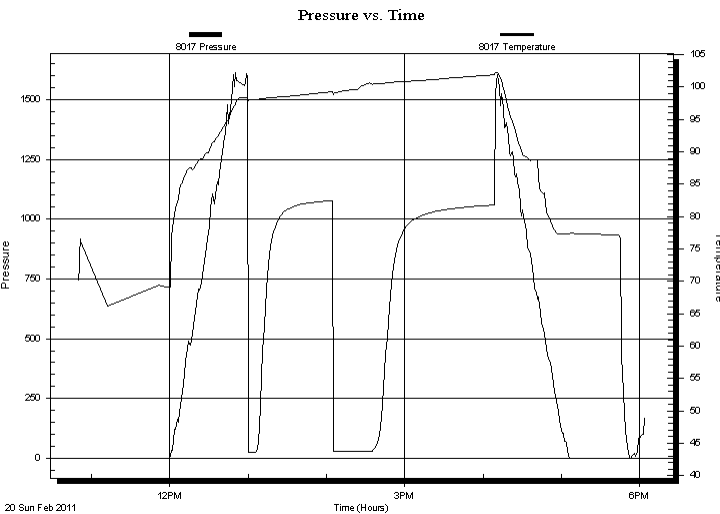
Time Off Btm:

TEST COMMENT: IF: 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)
25.00	Mud w / slight oil specks in tool	0.35

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

S.Gary Jr. & Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041552 **DST#: 2**

Test Start: 2011.02.20 @ 10:50:05

GENERAL INFORMATION:

Formation: **LKC "F& upper G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:00:10
 Time Test Ended: 18:03:50
Interval: 3285.00 ft (KB) To 3317.00 ft (KB) (TVD)
 Total Depth: 3317.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 1940.00 ft (KB)
 1930.00 ft (CF)
 KB to GR/CF: 10.00 ft

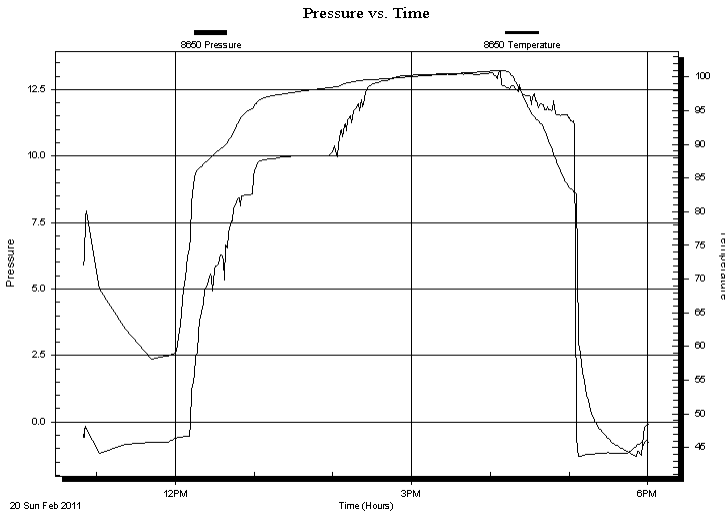
Serial #: 8650

Fluid

Press @ Run Depth: psig @ 3251.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.02.20 End Date: 2011.02.20 Last Calib.: 2011.02.20
 Start Time: 10:50:01 End Time: 18:02:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 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)
25.00	Mud w / slight oil specks in tool	0.35

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

Test Start: 2011.02.20 @ 10:50:05

Tool Information

Drill Pipe:	Length: 3285.00 ft	Diameter: 3.80 inches	Volume: 46.08 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 46.08 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3285.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	66.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8650	Fluid	3251.00	
Blank Spacing	5.00			3256.00	
Shut In Tool	5.00			3261.00	
Sampler	2.00			3263.00	
Hydraulic tool	5.00			3268.00	
Jars	5.00			3273.00	
Safety Joint	3.00			3276.00	
Packer	5.00			3281.00	34.00 Bottom Of Top Packer
Packer	4.00			3285.00	
Stubb	1.00			3286.00	
Recorder	0.00	8017	Inside	3286.00	
Recorder	0.00	8352	Outside	3286.00	
Perforations	28.00			3314.00	
Bullnose	3.00			3317.00	32.00 Bottom Packers & Anchor

Total Tool Length: 66.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

Test Start: 2011.02.20 @ 10:50:05

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: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
25.00	Mud w / slight oil specks in tool	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data= 500ml mud



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

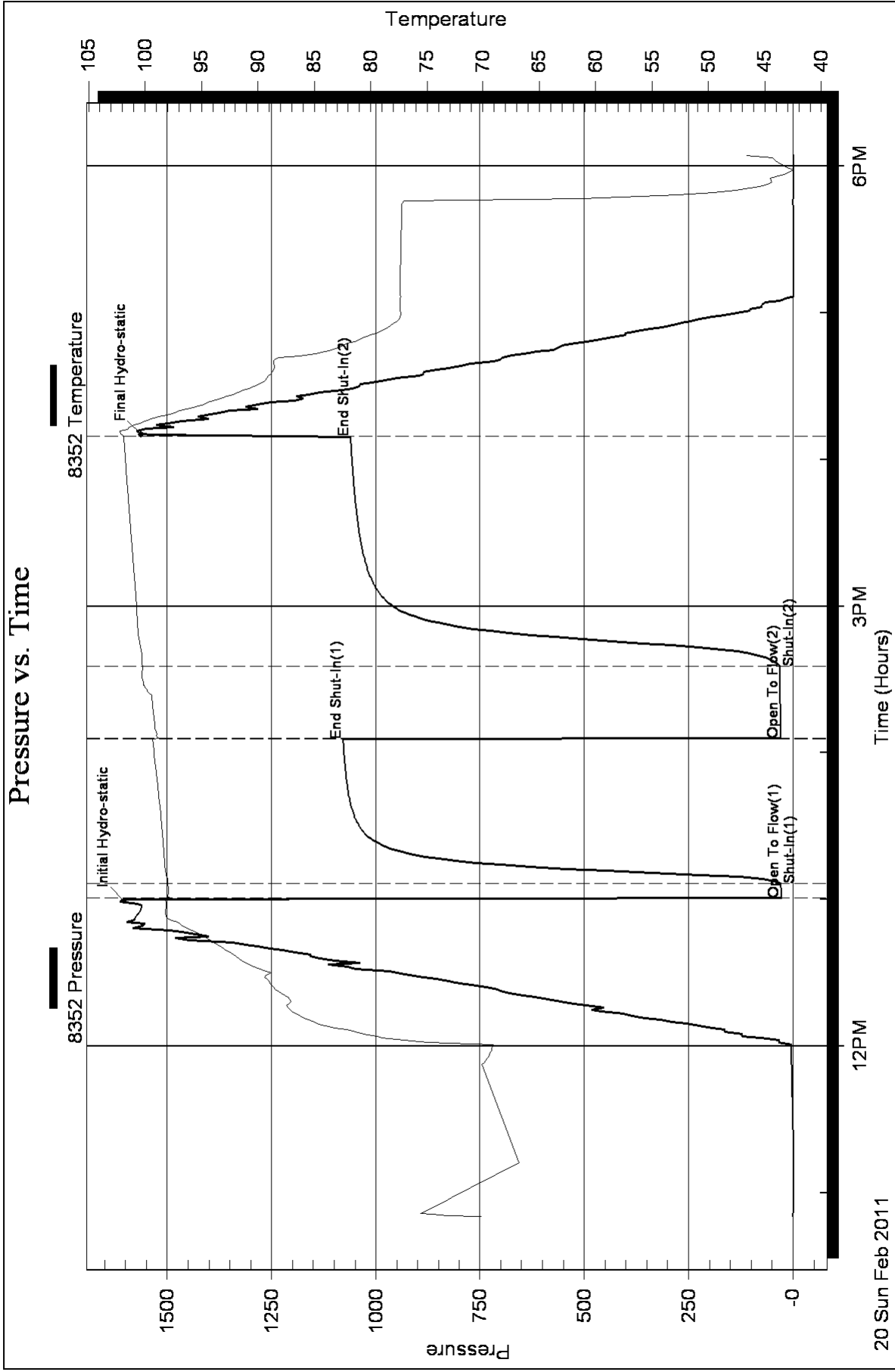
Test Start: 2011.02.20 @ 10:50:05

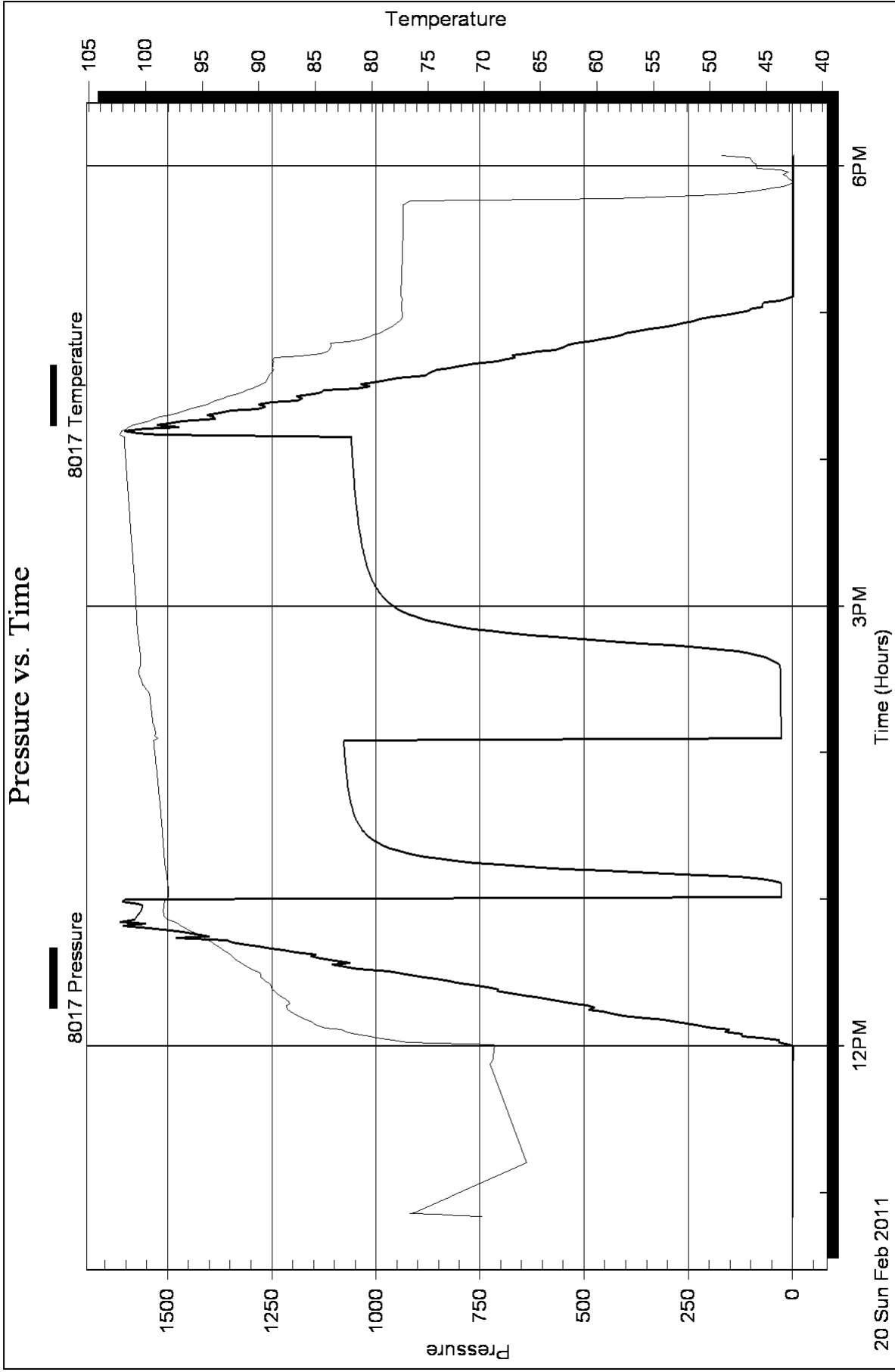
Gas Rates Information

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





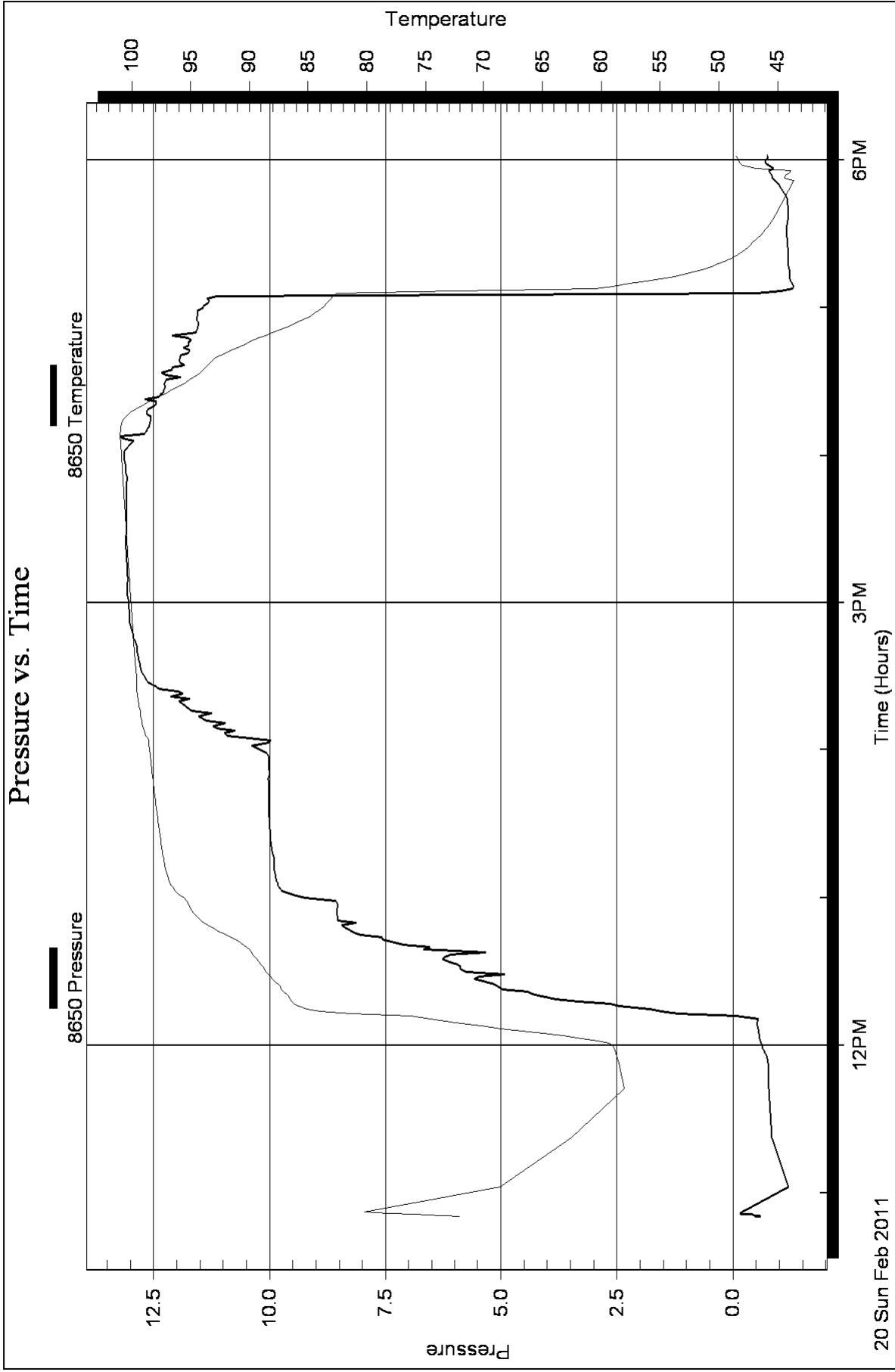
Serial #: 8650

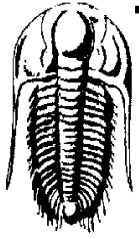
Fluid

S.Gary Jr. & Assoc. inc.

7-16s-16w Rush KS

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

Test Start: 2011.02.20 @ 10:50:05

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.83	70.2		95.6	796.84	88.9
	0.6	-0.58	74.0		96.8	886.21	89.2
	1.2	-0.44	75.5		97.9	885.64	89.4
	1.8	-0.40	75.3		99.1	919.42	89.0
	51.9	4.73	78.1		100.3	996.69	89.2
	62.9	3.70	69.9		101.4	1007.02	89.9
	64.1	3.65	69.7		102.6	1038.98	90.6
	65.3	3.61	69.5		103.8	1038.53	91.1
	66.4	3.57	69.4		104.9	1186.95	91.5
	67.6	3.54	69.3		106.1	1236.86	91.9
	68.8	3.52	69.2		107.3	1229.93	92.3
	69.9	3.49	69.1		108.4	1224.01	92.6
	71.1	34.57	74.0		109.6	1253.88	93.1
	72.3	38.73	77.3		110.8	1282.64	93.4
	73.4	77.65	79.3		111.9	1417.97	93.9
	74.6	121.84	80.6		113.1	1374.39	94.2
	75.8	163.71	81.7		114.3	1402.24	94.7
	76.9	194.38	82.8		115.4	1432.74	95.1
	78.1	224.21	84.2		116.6	1463.73	95.7
	79.3	256.93	84.9		117.8	1531.42	96.2
	80.4	317.37	85.5		118.9	1600.35	96.7
	81.6	345.56	86.1		120.1	1613.88	97.0
	82.8	374.44	86.5		121.3	1579.39	97.8
	83.9	442.30	87.0		122.4	1575.27	98.1
	85.1	465.47	87.2		123.6	1570.56	98.2
	86.3	494.89	87.4		124.8	1565.99	98.2
	87.4	589.45	87.2		125.9	1562.71	98.2
	88.6	587.85	87.1		127.1	1560.14	98.1
	89.8	605.72	87.4		128.3	1568.78	98.1
	90.9	704.44	87.8		128.8	1612.64	98.1
	92.1	699.01	88.2		128.9	1604.94	98.1
	93.3	779.12	88.6	Initial Hydro-static	129.1	1603.51	98.1
	94.4	771.39	88.7		129.3	1604.07	98.2

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)
	129.4	1603.27	98.2		164.6	1053.89	98.6
	129.6	1602.27	98.2		165.8	1056.02	98.6
	129.8	1601.40	98.3		166.9	1058.15	98.7
	129.9	1610.57	98.3		168.1	1059.79	98.7
Open To Flow (1)	130.1	28.02	97.7		169.3	1061.45	98.7
	130.3	28.18	97.9		170.4	1062.97	98.7
	130.4	28.24	98.0		171.6	1064.33	98.8
	130.6	28.21	98.0		172.8	1065.45	98.8
	131.8	27.75	98.0		173.9	1066.48	98.8
	132.9	27.66	98.0		175.1	1067.59	98.9
	134.1	28.41	98.0		176.3	1068.58	98.9
	135.3	28.52	98.0		177.4	1069.56	98.9
	135.8	28.53	98.0		178.6	1070.33	98.9
	135.9	28.54	98.0		179.8	1071.00	99.0
Shut-In(1)	136.1	28.48	98.0		180.9	1071.77	99.0
	136.3	29.79	98.0		182.1	1072.54	99.0
	136.4	32.26	98.0		183.3	1073.20	99.0
	136.6	35.08	98.0		184.4	1073.69	99.1
	137.8	65.73	98.0		185.6	1074.29	99.1
	138.9	143.92	98.1		186.8	1074.81	99.1
	140.1	290.51	98.1		187.9	1075.38	99.2
	141.3	445.56	98.2		189.1	1075.77	99.2
	142.4	579.11	98.2		190.3	1076.27	99.2
	143.6	686.61	98.3		191.4	1076.71	99.2
	144.8	770.45	98.3		192.6	1077.51	99.3
	145.9	834.12	98.3		193.8	1077.71	99.3
	147.1	882.22	98.3		194.8	1077.84	99.3
	148.3	919.03	98.3		194.9	1077.87	99.3
	149.4	947.10	98.3	End Shut-In(1)	195.1	1077.87	99.3
	150.6	968.78	98.4		195.3	1037.37	99.3
	151.8	985.79	98.4	Open To Flow (2)	195.4	28.94	98.8
	152.9	999.27	98.4		195.6	29.05	99.0
	154.1	1009.97	98.4		196.8	29.10	99.0
	155.3	1018.74	98.4		197.9	29.11	99.0
	156.4	1026.05	98.5		199.1	29.15	99.1
	157.6	1032.07	98.5		200.3	29.19	99.1
	158.8	1037.12	98.5		201.4	29.27	99.2
	159.9	1041.53	98.5		202.6	29.39	99.2
	161.1	1045.55	98.5		203.8	29.51	99.2
	162.3	1048.54	98.6		204.9	29.64	99.2
	163.4	1051.41	98.6		206.1	29.72	99.3

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)
	207.3	29.77	99.3		249.1	953.46	100.8
	208.4	29.91	99.3		250.3	963.55	100.8
	209.6	30.00	99.3		251.4	972.09	100.8
	210.8	30.06	99.4		252.6	979.42	100.8
	211.9	30.17	99.4		253.8	985.70	100.8
	213.1	30.33	99.4		254.9	991.21	100.8
	214.3	30.41	99.7		256.1	996.15	100.9
	215.4	30.46	99.8		257.3	1000.52	100.9
	216.6	30.67	100.0		258.4	1004.65	100.9
	217.8	30.75	100.1		259.6	1007.86	100.9
	218.9	30.65	100.2		260.8	1010.99	100.9
	220.1	30.74	100.2		261.9	1013.94	100.9
	221.3	30.95	100.3		263.1	1016.56	101.0
	222.4	31.10	100.3		264.3	1019.01	101.0
	223.6	31.19	100.2		265.4	1021.36	101.0
	224.8	31.25	100.2		266.6	1023.43	101.0
	224.9	31.23	100.2		267.8	1025.27	101.0
	225.1	31.18	100.2		268.9	1027.14	101.1
Shut-In(2)	225.3	31.03	100.2		270.1	1028.87	101.1
	225.4	32.03	100.2		271.3	1030.48	101.1
	225.6	33.22	100.2		272.4	1031.95	101.1
	225.8	34.36	100.2		273.6	1033.39	101.1
	226.9	44.01	100.3		274.8	1034.91	101.2
	228.1	56.87	100.3		275.9	1036.04	101.2
	229.3	75.18	100.3		277.1	1037.27	101.2
	230.4	102.78	100.3		278.3	1038.33	101.2
	231.6	146.45	100.3		279.4	1039.44	101.2
	232.8	213.48	100.4		280.6	1040.53	101.3
	233.9	303.67	100.4		281.8	1041.50	101.3
	235.1	404.89	100.5		282.9	1042.49	101.3
	236.3	503.92	100.5		284.1	1043.34	101.3
	237.4	593.11	100.6		285.3	1044.36	101.3
	238.6	669.81	100.6		286.4	1045.19	101.4
	239.8	733.60	100.6		287.6	1045.97	101.4
	240.9	785.40	100.6		288.8	1046.68	101.4
	242.1	827.23	100.7		289.9	1047.46	101.4
	243.3	860.64	100.7		291.1	1048.07	101.4
	244.4	887.63	100.7		292.3	1048.86	101.5
	245.6	909.33	100.7		293.4	1049.57	101.5
	246.8	927.08	100.7		294.6	1050.14	101.5
	247.9	941.49	100.7		295.8	1050.83	101.5

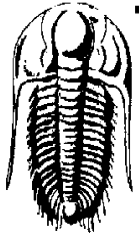
Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	296.9	1051.42	101.5		333.4	1252.34	94.1
	298.1	1052.07	101.6		334.6	1173.62	93.3
	299.3	1052.60	101.6		335.8	1135.64	92.6
	300.4	1053.19	101.6		336.9	1118.65	91.9
	301.6	1053.68	101.6		338.1	1100.18	91.1
	302.8	1054.24	101.6		339.3	1070.83	90.5
	303.9	1054.61	101.7		340.4	1038.76	89.9
	305.1	1055.22	101.7		341.6	979.51	89.5
	306.3	1055.63	101.7		342.8	931.46	89.2
	307.4	1056.13	101.7		343.9	918.90	89.0
	308.6	1056.53	101.7		345.1	887.66	88.8
	309.8	1057.04	101.7		346.3	855.83	88.6
	310.9	1057.45	101.8		347.4	789.71	88.5
	312.1	1057.89	101.8		348.6	754.32	88.6
	313.3	1058.24	101.8		349.8	734.27	88.6
	314.4	1058.61	101.8		350.9	704.65	88.4
	315.6	1059.04	101.8		352.1	673.62	86.3
	316.8	1059.38	101.9		353.3	613.77	84.6
	317.9	1059.89	101.9		354.4	583.09	83.6
	318.8	1060.02	101.9		355.6	542.54	82.8
	318.9	1060.04	101.9		356.8	522.81	82.3
End Shut-In(2)	319.1	1060.04	101.9		357.9	492.45	81.4
	319.3	1324.82	101.8		359.1	462.04	80.8
	319.4	1532.42	102.0		360.3	409.22	80.1
	319.6	1533.28	102.0		361.4	382.68	79.5
	319.8	1522.42	102.1		362.6	349.14	79.0
	319.9	1512.32	102.1		363.8	313.76	78.4
Final Hydro-static	320.1	1562.49	102.2		364.9	283.63	78.0
	320.3	1559.87	102.2		366.1	253.73	77.7
	320.4	1563.66	102.2		367.3	211.15	77.5
	320.6	1570.29	102.2		368.4	160.12	77.4
	321.8	1550.09	101.7		369.6	134.20	77.3
	322.9	1484.09	101.4		370.8	104.12	77.4
	324.1	1455.91	100.9		371.9	73.95	77.4
	325.3	1411.39	100.2		373.1	73.78	77.4
	326.4	1434.26	99.3		374.3	32.52	77.5
	327.6	1409.35	98.4		375.4	18.85	77.4
	328.8	1376.03	97.4		376.6	-1.24	77.4
	329.9	1345.45	96.5		377.8	-1.26	77.4
	331.1	1313.65	95.6		378.9	-1.23	77.4
	332.3	1282.46	94.7		380.1	-1.23	77.4

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)
	381.3	-1.25	77.4		429.1	-1.12	43.0
	382.4	-1.27	77.4		430.3	-1.16	43.6
	383.6	-1.25	77.4		431.4	-1.31	43.9
	384.8	-1.26	77.4		432.6	-1.24	44.3
	385.9	-1.28	77.4		433.8	-1.52	46.7
	387.1	-1.27	77.4				
	388.3	-1.26	77.4				
	389.4	-1.29	77.4				
	390.6	-1.32	77.4				
	391.8	-1.31	77.4				
	392.9	-1.28	77.3				
	394.1	-1.27	77.3				
	395.3	-1.26	77.3				
	396.4	-1.26	77.3				
	397.6	-1.28	77.3				
	398.8	-1.30	77.3				
	399.9	-1.29	77.3				
	401.1	-1.26	77.3				
	402.3	-1.26	77.3				
	403.4	-1.24	77.3				
	404.6	-1.21	77.3				
	405.8	-1.19	77.3				
	406.9	-1.17	77.3				
	408.1	-1.16	77.3				
	409.3	-1.14	77.3				
	410.4	-1.13	77.3				
	411.6	-1.09	77.3				
	412.8	-1.03	77.3				
	413.9	-0.91	77.2				
	415.1	-0.79	77.2				
	416.3	-0.43	61.3				
	417.4	-1.38	54.6				
	418.6	-1.45	50.1				
	419.8	-1.35	47.3				
	420.9	-1.25	45.8				
	422.1	-1.20	44.8				
	423.3	-1.15	44.1				
	424.4	-1.11	44.6				
	425.6	-1.09	43.7				
	426.8	-1.09	43.1				
	427.9	-1.10	42.5				

Printing every 6 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

Test Start: 2011.02.20 @ 10:50:05

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.82	70.2		90.1	645.92	88.0
	0.5	-1.66	72.6		91.1	678.65	88.3
	1.0	-1.32	75.6		92.1	708.12	88.6
	1.5	-1.46	76.4		93.1	744.75	88.8
	11.9	-1.22	75.6		94.1	795.53	88.9
	62.1	-1.92	69.4		95.1	836.94	89.0
	63.1	-1.98	69.3		96.1	825.19	89.3
	64.1	-2.00	69.2		97.1	854.86	89.6
	65.1	-2.01	69.2		98.1	884.06	89.8
	66.1	-2.02	69.2		99.1	917.97	89.8
	67.1	-2.00	69.1		100.1	918.20	90.1
	68.1	-2.01	69.1		101.1	1031.72	90.6
	69.1	-2.01	69.1		102.1	1075.28	91.0
	70.1	-2.03	69.1		103.1	1067.53	91.3
	71.1	32.74	76.3		104.1	1098.24	91.6
	72.1	31.11	78.2		105.1	1134.16	92.0
	73.1	76.73	79.6		106.1	1141.25	92.3
	74.1	120.32	81.1		107.1	1144.06	92.5
	75.1	163.08	81.7		108.1	1287.29	92.8
	76.1	161.84	82.6		109.1	1292.53	93.1
	77.1	192.75	84.1		110.1	1346.77	93.5
	78.1	222.66	84.8		111.1	1312.74	93.8
	79.1	252.66	85.2		112.1	1342.71	94.1
	80.1	283.50	85.7		113.1	1373.02	94.5
	81.1	326.91	86.1		114.1	1401.47	94.9
	82.1	405.60	86.5		115.1	1432.95	95.2
	83.1	404.84	86.8		116.1	1464.04	95.7
	84.1	433.98	87.3		117.1	1493.57	96.2
	85.1	463.34	87.4		118.1	1531.59	96.6
	86.1	493.77	87.5		119.1	1574.23	97.0
	87.1	523.54	87.3		120.1	1605.00	97.2
	88.1	591.46	87.4		121.1	1578.87	97.9
	89.1	637.43	87.7		122.1	1575.85	98.2

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	1571.65	98.4		164.1	1051.76	98.6
	124.1	1567.73	98.4		165.1	1053.79	98.7
	125.1	1564.09	98.4		166.1	1055.64	98.7
	126.1	1561.75	98.4		167.1	1057.32	98.7
	127.1	1559.25	98.4		168.1	1058.77	98.7
	128.1	1568.76	98.4		169.1	1060.22	98.7
	129.1	1604.42	98.3		170.1	1061.42	98.8
	130.1	25.68	97.7		171.1	1062.58	98.8
	131.1	25.45	98.0		172.1	1063.79	98.8
	132.1	25.60	98.0		173.1	1064.71	98.8
	133.1	25.41	98.0		174.1	1065.56	98.8
	134.1	26.14	98.0		175.1	1066.52	98.9
	135.1	26.23	98.0		176.1	1067.34	98.9
	136.1	26.08	98.1		177.1	1068.21	98.9
	137.1	43.57	98.1		178.1	1068.88	98.9
	138.1	81.07	98.1		179.1	1069.50	99.0
	139.1	164.37	98.1		180.1	1070.15	99.0
	140.1	294.68	98.2		181.1	1070.74	99.0
	141.1	428.35	98.2		182.1	1071.39	99.0
	142.1	546.83	98.2		183.1	1072.00	99.0
	143.1	645.91	98.3		184.1	1072.48	99.1
	144.1	727.08	98.3		185.1	1073.00	99.1
	145.1	791.69	98.3		186.1	1073.32	99.1
	146.1	842.53	98.3		187.1	1073.99	99.1
	147.1	882.54	98.4		188.1	1074.38	99.2
	148.1	914.36	98.4		189.1	1074.76	99.2
	149.1	939.55	98.4		190.1	1075.07	99.2
	150.1	959.70	98.4		191.1	1075.44	99.2
	151.1	976.03	98.4		192.1	1075.94	99.2
	152.1	989.30	98.4		193.1	1076.21	99.3
	153.1	1000.11	98.5		194.1	1076.67	99.3
	154.1	1009.22	98.5		195.1	1076.84	99.3
	155.1	1016.71	98.5		196.1	26.96	99.2
	156.1	1023.18	98.5		197.1	26.74	99.1
	157.1	1028.56	98.5		198.1	26.82	99.1
	158.1	1033.31	98.5		199.1	26.84	99.2
	159.1	1037.46	98.6		200.1	26.86	99.3
	160.1	1041.00	98.6		201.1	26.96	99.3
	161.1	1044.41	98.6		202.1	27.04	99.4
	162.1	1047.10	98.6		203.1	27.15	99.4
	163.1	1049.54	98.6		204.1	27.28	99.4

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	27.42	99.5		246.1	916.95	100.8
	206.1	27.49	99.5		247.1	930.84	100.8
	207.1	27.52	99.5		248.1	942.61	100.8
	208.1	27.63	99.5		249.1	952.72	100.9
	209.1	27.75	99.6		250.1	961.47	100.9
	210.1	27.85	99.6		251.1	968.97	100.9
	211.1	27.93	99.6		252.1	975.65	100.9
	212.1	28.14	99.6		253.1	981.32	100.9
	213.1	28.24	99.7		254.1	986.38	100.9
	214.1	28.25	99.7		255.1	991.08	100.9
	215.1	28.22	99.9		256.1	995.25	100.9
	216.1	28.32	100.0		257.1	998.93	100.9
	217.1	28.15	100.2		258.1	1002.64	101.0
	218.1	28.45	100.3		259.1	1005.64	101.0
	219.1	28.30	100.4		260.1	1008.54	101.0
	220.1	28.42	100.4		261.1	1010.88	101.0
	221.1	28.27	100.5		262.1	1013.28	101.0
	222.1	28.80	100.6		263.1	1015.52	101.0
	223.1	28.93	100.6		264.1	1017.72	101.1
	224.1	29.01	100.6		265.1	1019.67	101.1
	225.1	28.88	100.5		266.1	1021.51	101.1
	226.1	34.81	100.5		267.1	1023.16	101.1
	227.1	43.56	100.5		268.1	1024.87	101.1
	228.1	54.97	100.5		269.1	1026.27	101.1
	229.1	70.55	100.5		270.1	1027.79	101.1
	230.1	92.78	100.5		271.1	1029.22	101.2
	231.1	124.86	100.5		272.1	1030.48	101.2
	232.1	172.46	100.5		273.1	1031.67	101.2
	233.1	238.43	100.6		274.1	1032.98	101.2
	234.1	319.65	100.6		275.1	1034.16	101.2
	235.1	407.14	100.6		276.1	1035.16	101.2
	236.1	492.18	100.6		277.1	1036.06	101.3
	237.1	570.48	100.7		278.1	1037.15	101.3
	238.1	640.03	100.7		279.1	1038.05	101.3
	239.1	699.64	100.7		280.1	1038.97	101.3
	240.1	750.23	100.7		281.1	1039.98	101.3
	241.1	792.36	100.8		282.1	1040.67	101.3
	242.1	827.38	100.8		283.1	1041.44	101.4
	243.1	856.35	100.8		284.1	1042.26	101.4
	244.1	880.34	100.8		285.1	1043.09	101.4
	245.1	900.26	100.8		286.1	1043.86	101.4

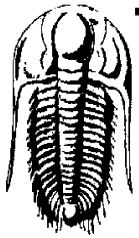
Printing every 6 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	287.1	1044.52	101.4		328.1	1403.74	97.9
	288.1	1045.21	101.4		329.1	1372.71	97.0
	289.1	1045.77	101.5		330.1	1343.16	96.3
	290.1	1046.41	101.5		331.1	1312.38	95.4
	291.1	1047.05	101.5		332.1	1282.34	94.6
	292.1	1047.63	101.5		333.1	1253.33	94.1
	293.1	1048.30	101.5		334.1	1222.37	93.4
	294.1	1048.76	101.5		335.1	1192.65	92.8
	295.1	1049.36	101.5		336.1	1161.39	92.1
	296.1	1049.83	101.6		337.1	1131.68	91.5
	297.1	1050.58	101.6		338.1	1100.42	90.9
	298.1	1050.97	101.6		339.1	1070.31	90.3
	299.1	1051.39	101.6		340.1	1039.41	89.8
	300.1	1051.87	101.6		341.1	1008.92	89.5
	301.1	1052.26	101.6		342.1	977.69	89.3
	302.1	1052.71	101.7		343.1	947.43	89.2
	303.1	1053.20	101.7		344.1	916.76	89.0
	304.1	1053.66	101.7		345.1	886.10	88.9
	305.1	1053.97	101.7		346.1	855.14	88.7
	306.1	1054.41	101.7		347.1	824.82	88.8
	307.1	1054.85	101.7		348.1	794.26	88.7
	308.1	1055.19	101.7		349.1	763.46	88.7
	309.1	1055.64	101.8		350.1	732.87	88.7
	310.1	1056.04	101.8		351.1	702.16	88.7
	311.1	1056.35	101.8		352.1	671.91	86.3
	312.1	1056.73	101.8		353.1	641.12	84.4
	313.1	1057.05	101.8		354.1	611.39	83.7
	314.1	1057.31	101.8		355.1	581.27	83.7
	315.1	1057.74	101.9		356.1	550.79	83.7
	316.1	1058.01	101.9		357.1	520.66	83.6
	317.1	1058.62	101.9		358.1	490.62	82.0
	318.1	1058.76	101.9		359.1	460.45	80.7
	319.1	1058.95	101.9		360.1	417.72	80.0
	320.1	1561.04	102.2		361.1	401.09	79.4
	321.1	1493.35	102.2		362.1	371.13	79.0
	322.1	1553.18	101.7		363.1	341.48	78.5
	323.1	1531.81	101.4		364.1	311.97	78.2
	324.1	1450.92	100.9		365.1	281.98	77.8
	325.1	1421.23	100.2		366.1	252.16	77.6
	326.1	1401.11	99.5		367.1	222.18	77.4
	327.1	1388.35	98.7		368.1	192.26	77.3

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	153.53	77.3		410.1	-2.33	77.2
	370.1	126.20	77.3		411.1	-2.35	77.2
	371.1	102.42	77.3		412.1	-2.35	77.2
	372.1	72.42	77.4		413.1	-2.34	77.2
	373.1	72.02	77.4		414.1	-2.28	77.1
	374.1	31.53	77.4		415.1	-2.16	76.8
	375.1	31.36	77.3		416.1	-2.19	60.7
	376.1	-2.35	77.3		417.1	-2.40	53.0
	377.1	-2.35	77.4		418.1	-2.48	49.1
	378.1	-2.37	77.4		419.1	-2.51	46.5
	379.1	-2.39	77.4		420.1	-2.53	44.9
	380.1	-2.37	77.4		421.1	-2.55	43.7
	381.1	-2.38	77.4		422.1	-2.50	42.9
	382.1	-2.37	77.4		423.1	-2.44	42.5
	383.1	-2.36	77.4		424.1	-2.40	43.1
	384.1	-2.35	77.4		425.1	-2.39	43.1
	385.1	-2.38	77.3		426.1	-2.35	43.6
	386.1	-2.39	77.3		427.1	-2.35	43.0
	387.1	-2.37	77.3		428.1	-2.36	44.3
	388.1	-2.34	77.3		429.1	-2.31	45.8
	389.1	-2.34	77.3		430.1	-2.27	45.9
	390.1	-2.36	77.3		431.1	-2.25	46.1
	391.1	-2.36	77.3		432.1	-2.24	46.3
	392.1	-2.37	77.3		433.1	-2.21	46.5
	393.1	-2.39	77.3		433.8	-2.40	49.0
	394.1	-2.37	77.3				
	395.1	-2.36	77.3				
	396.1	-2.35	77.3				
	397.1	-2.36	77.3				
	398.1	-2.36	77.3				
	399.1	-2.34	77.3				
	400.1	-2.34	77.2				
	401.1	-2.36	77.2				
	402.1	-2.38	77.2				
	403.1	-2.40	77.2				
	404.1	-2.38	77.2				
	405.1	-2.35	77.2				
	406.1	-2.32	77.2				
	407.1	-2.30	77.2				
	408.1	-2.30	77.2				
	409.1	-2.32	77.2				

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

Test Start: 2011.02.20 @ 10:50:05

Serial # 8650 Fluid				Serial # 8650 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.47	72.1		1.6	-0.19	79.3
	0.1	-0.55	72.2		1.7	-0.19	79.4
	0.1	-0.56	72.3		1.8	-0.19	79.5
	0.2	-0.57	72.4		1.8	-0.19	79.6
	0.2	-0.60	72.5		1.9	-0.20	79.7
	0.3	-0.59	72.7		1.9	-0.20	79.9
	0.3	-0.58	72.8		2.0	-0.21	80.1
	0.3	-0.56	73.0		12.0	-1.19	68.6
	0.4	-0.54	73.1		42.0	-0.76	59.6
	0.4	-0.51	73.3		62.5	-0.76	58.5
	0.5	-0.49	73.6		64.0	-0.75	58.6
	0.6	-0.47	73.9		65.5	-0.72	58.7
	0.6	-0.48	74.3		67.0	-0.68	58.8
	0.6	-0.48	74.7		68.5	-0.65	58.9
	0.7	-0.47	75.0		70.0	-0.62	59.0
	0.8	-0.47	75.2		71.5	-0.59	60.3
	0.8	-0.45	75.4		73.0	-0.58	62.4
	0.9	-0.40	75.5		74.5	-0.56	64.9
	0.9	-0.34	75.6		76.0	-0.55	67.6
	0.9	-0.29	75.8		77.5	-0.53	70.2
	1.0	-0.24	76.1		79.0	-0.52	72.6
	1.0	-0.21	76.4		80.5	-0.54	74.6
	1.1	-0.18	76.7		82.0	-0.09	79.1
	1.1	-0.16	77.0		83.5	1.54	83.9
	1.2	-0.17	77.3		85.0	2.24	85.5
	1.3	-0.15	77.6		86.5	2.64	86.2
	1.3	-0.15	77.8		88.0	3.54	86.4
	1.4	-0.15	78.1		89.5	4.12	86.7
	1.4	-0.15	78.3		91.0	4.45	87.0
	1.5	-0.15	78.5		92.5	4.97	87.3
	1.5	-0.16	78.7		94.0	5.10	87.5
	1.5	-0.16	78.9		95.5	5.32	87.8
	1.6	-0.18	79.1		97.0	5.54	88.1

Printing every 3 samples

Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	4.91	88.4		160.0	9.99	97.7
	100.0	5.81	88.6		161.5	10.00	97.8
	101.5	5.86	88.8		163.0	10.01	97.8
	103.0	6.00	89.1		164.5	10.01	97.9
	104.5	6.27	89.3		166.0	10.01	97.9
	106.0	6.14	89.6		167.5	10.02	97.9
	107.5	5.33	89.8		169.0	10.02	98.0
	109.0	6.57	90.1		170.5	10.01	98.0
	110.5	7.12	90.5		172.0	10.01	98.1
	112.0	6.78	90.9		173.5	10.01	98.1
	113.5	7.58	91.5		175.0	10.01	98.1
	115.0	8.10	92.1		176.5	10.01	98.2
	116.5	8.26	92.7		178.0	10.02	98.2
	118.0	8.41	93.3		179.5	10.01	98.2
	119.5	8.14	93.8		181.0	10.01	98.3
	121.0	8.51	94.3		182.5	10.01	98.3
	122.5	8.53	94.6		184.0	10.01	98.4
	124.0	8.53	94.8		185.5	10.01	98.4
	125.5	8.54	95.0		187.0	10.02	98.4
	127.0	8.52	95.2		188.5	10.08	98.5
	128.5	8.57	95.3		190.0	10.22	98.5
	130.0	9.40	95.7		191.5	10.39	98.5
	131.5	9.59	96.1		193.0	10.00	98.6
	133.0	9.76	96.4		194.5	10.44	98.6
	134.5	9.81	96.6		196.0	10.95	98.8
	136.0	9.82	96.8		197.5	10.74	98.9
	137.5	9.86	96.9		199.0	11.17	99.0
	139.0	9.87	97.0		200.5	10.96	99.1
	140.5	9.89	97.1		202.0	11.41	99.2
	142.0	9.89	97.2		203.5	11.53	99.2
	143.5	9.89	97.2		205.0	11.64	99.3
	145.0	9.89	97.3		206.5	11.73	99.3
	146.5	9.91	97.3		208.0	11.54	99.4
	148.0	9.93	97.4		209.5	11.96	99.4
	149.5	9.95	97.4		211.0	12.09	99.5
	151.0	9.96	97.5		212.5	11.87	99.5
	152.5	9.97	97.5		214.0	12.34	99.5
	154.0	9.97	97.6		215.5	12.44	99.6
	155.5	9.98	97.6		217.0	12.25	99.6
	157.0	9.99	97.6		218.5	12.65	99.6
	158.5	10.00	97.7		220.0	12.70	99.6

Printing every 3 samples

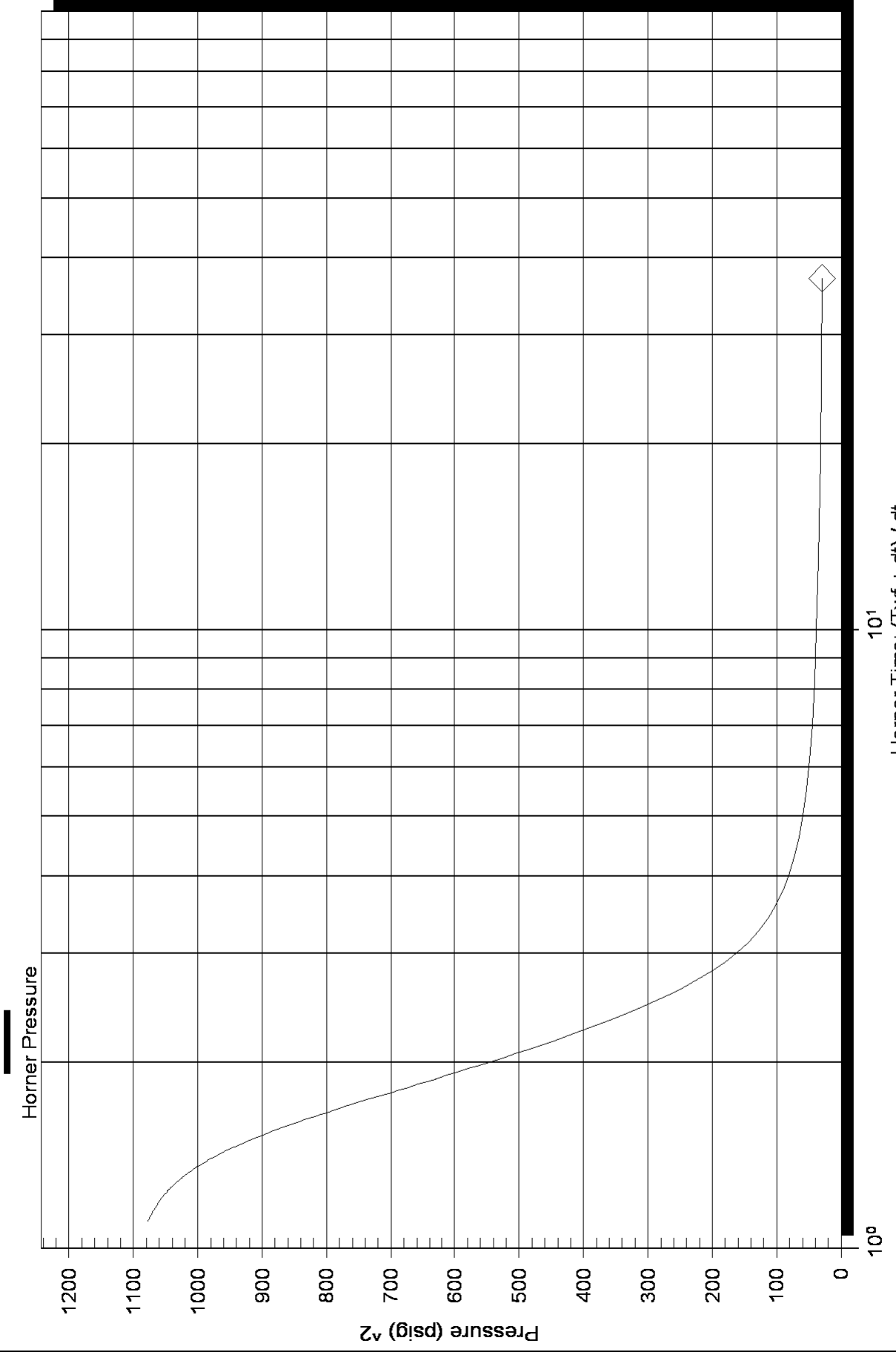
Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	12.74	99.6		283.0	13.07	100.5
	223.0	12.78	99.7		284.5	13.08	100.5
	224.5	12.77	99.7		286.0	13.09	100.6
	226.0	12.80	99.7		287.5	13.09	100.6
	227.5	12.82	99.7		289.0	13.08	100.6
	229.0	12.84	99.8		290.5	13.08	100.6
	230.5	12.84	99.8		292.0	13.08	100.6
	232.0	12.85	99.8		293.5	13.09	100.7
	233.5	12.88	99.8		295.0	13.08	100.7
	235.0	12.91	99.8		296.5	13.08	100.7
	236.5	12.93	99.9		298.0	13.08	100.7
	238.0	12.96	99.9		299.5	13.07	100.7
	239.5	12.98	99.9		301.0	13.08	100.8
	241.0	12.99	99.9		302.5	13.09	100.8
	242.5	13.01	100.0		304.0	13.10	100.8
	244.0	13.02	100.0		305.5	13.09	100.8
	245.5	13.01	100.0		307.0	13.12	100.8
	247.0	13.02	100.0		308.5	13.12	100.9
	248.5	13.02	100.0		310.0	13.13	100.9
	250.0	13.03	100.1		311.5	13.12	100.9
	251.5	13.05	100.1		313.0	13.05	100.9
	253.0	13.05	100.1		314.5	13.00	100.9
	254.5	13.06	100.1		316.0	13.23	101.0
	256.0	13.06	100.1		317.5	13.22	101.0
	257.5	13.06	100.2		319.0	12.67	101.0
	259.0	13.05	100.2		320.5	12.63	100.9
	260.5	13.05	100.2		322.0	12.60	100.9
	262.0	13.05	100.2		323.5	12.57	100.8
	263.5	13.06	100.3		325.0	12.60	100.6
	265.0	13.06	100.3		326.5	12.63	100.3
	266.5	13.07	100.3		328.0	11.65	99.8
	268.0	13.07	100.3		329.5	12.52	99.3
	269.5	13.08	100.3		331.0	12.45	98.7
	271.0	13.08	100.4		332.5	12.69	98.2
	272.5	13.09	100.4		334.0	12.38	97.5
	274.0	13.10	100.4		335.5	12.30	96.9
	275.5	13.09	100.4		337.0	12.26	96.3
	277.0	13.08	100.4		338.5	12.26	95.8
	278.5	13.07	100.5		340.0	14.12	95.2
	280.0	13.08	100.5		341.5	11.92	94.7
	281.5	13.08	100.5		343.0	12.98	94.3

Printing every 3 samples

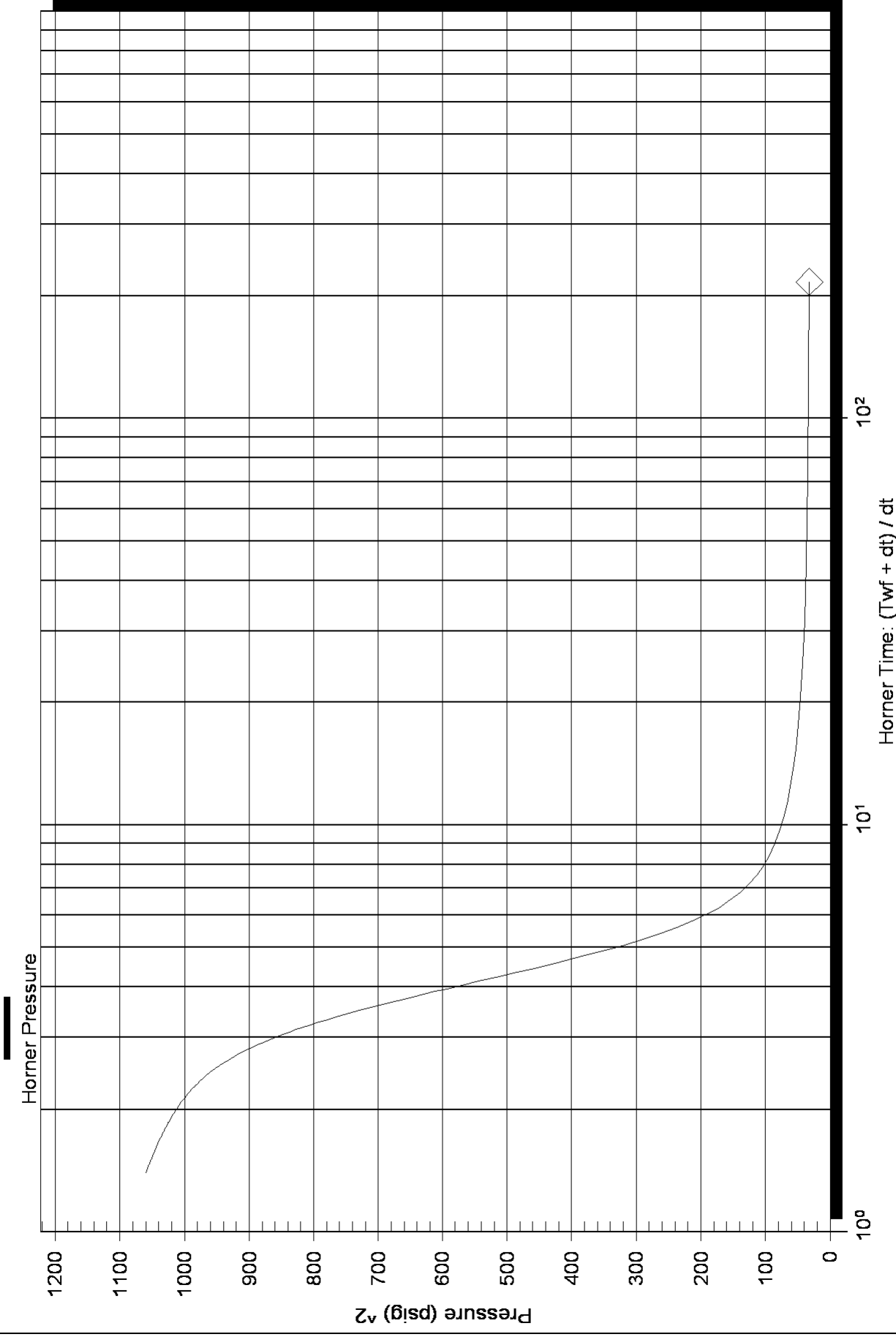
Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	12.10	93.9		406.0	-1.18	45.3
	346.0	12.89	93.6		407.5	-1.19	45.2
	347.5	11.91	93.3		409.0	-1.19	45.0
	349.0	11.90	93.0		410.5	-1.19	44.8
	350.5	11.92	92.5		412.0	-1.18	44.6
	352.0	11.76	91.8		413.5	-1.17	44.5
	353.5	11.85	91.0		415.0	-1.15	44.3
	355.0	11.16	90.4		416.5	-1.10	44.2
	356.5	11.70	89.7		418.0	-1.05	44.0
	358.0	11.74	88.9		419.5	-1.01	43.8
	359.5	11.60	88.1		421.0	-0.93	43.7
	361.0	11.55	87.3		422.5	-0.86	44.4
	362.5	11.54	86.5		424.0	-0.82	44.1
	364.0	11.20	85.8		425.5	-0.78	43.9
	365.5	11.55	85.2		427.0	-0.74	47.7
	367.0	11.55	84.6		428.5	-0.71	48.2
	368.5	11.56	84.1		430.0	-0.77	48.4
	370.0	10.91	83.7		431.5	-0.73	48.5
	371.5	11.33	83.4		432.0	-0.77	48.5
	373.0	11.35	83.1				
	374.5	11.15	82.9				
	376.0	-1.07	82.5				
	377.5	-1.28	60.6				
	379.0	-1.29	58.3				
	380.5	-1.25	56.2				
	382.0	-1.23	54.3				
	383.5	-1.22	52.8				
	385.0	-1.22	51.6				
	386.5	-1.21	50.6				
	388.0	-1.20	49.8				
	389.5	-1.20	49.1				
	391.0	-1.19	48.5				
	392.5	-1.19	48.0				
	394.0	-1.19	47.6				
	395.5	-1.18	47.3				
	397.0	-1.17	46.9				
	398.5	-1.17	46.6				
	400.0	-1.16	46.3				
	401.5	-1.16	46.0				
	403.0	-1.17	45.8				
	404.5	-1.17	45.5				

Printing every 3 samples

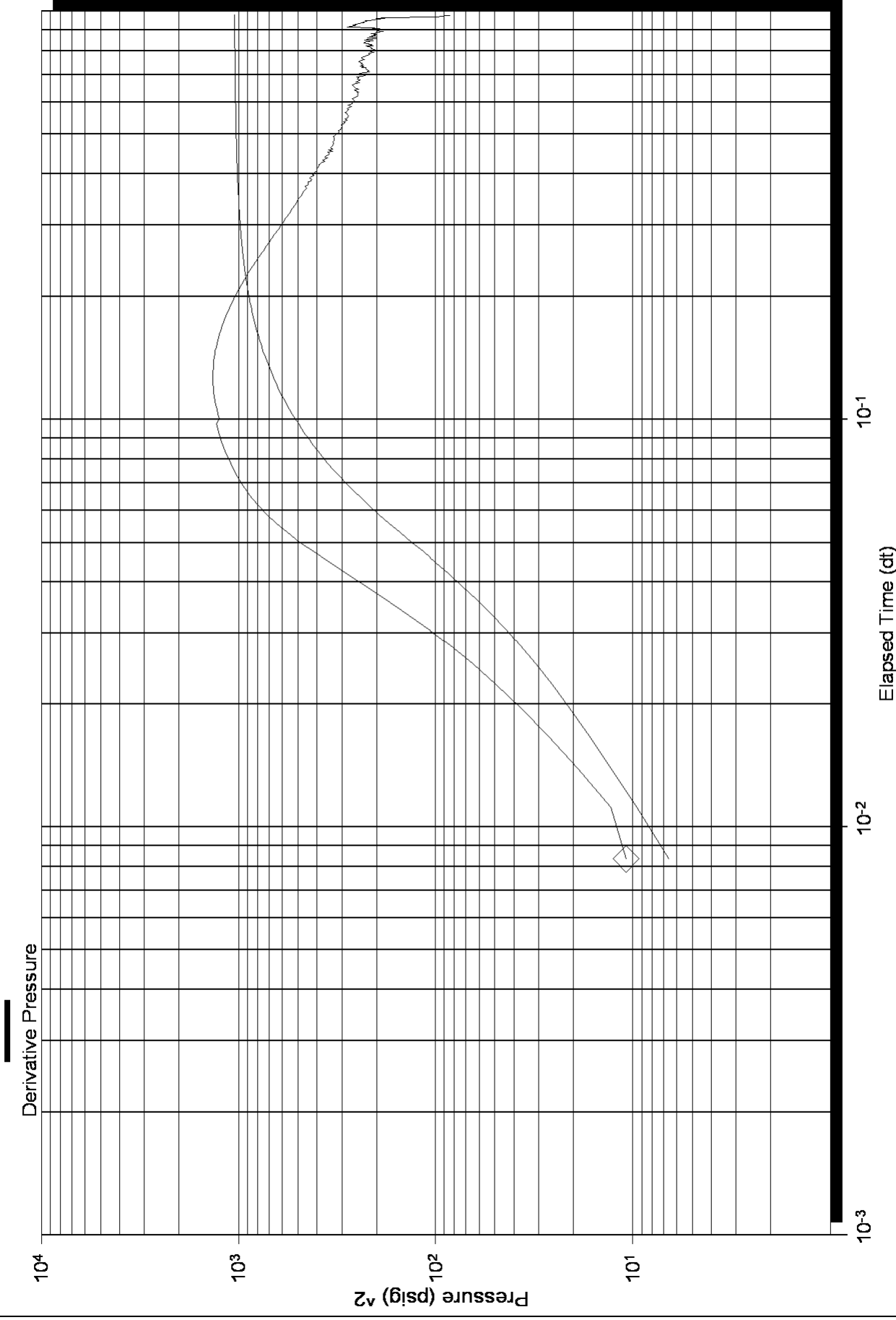
Homer Plot



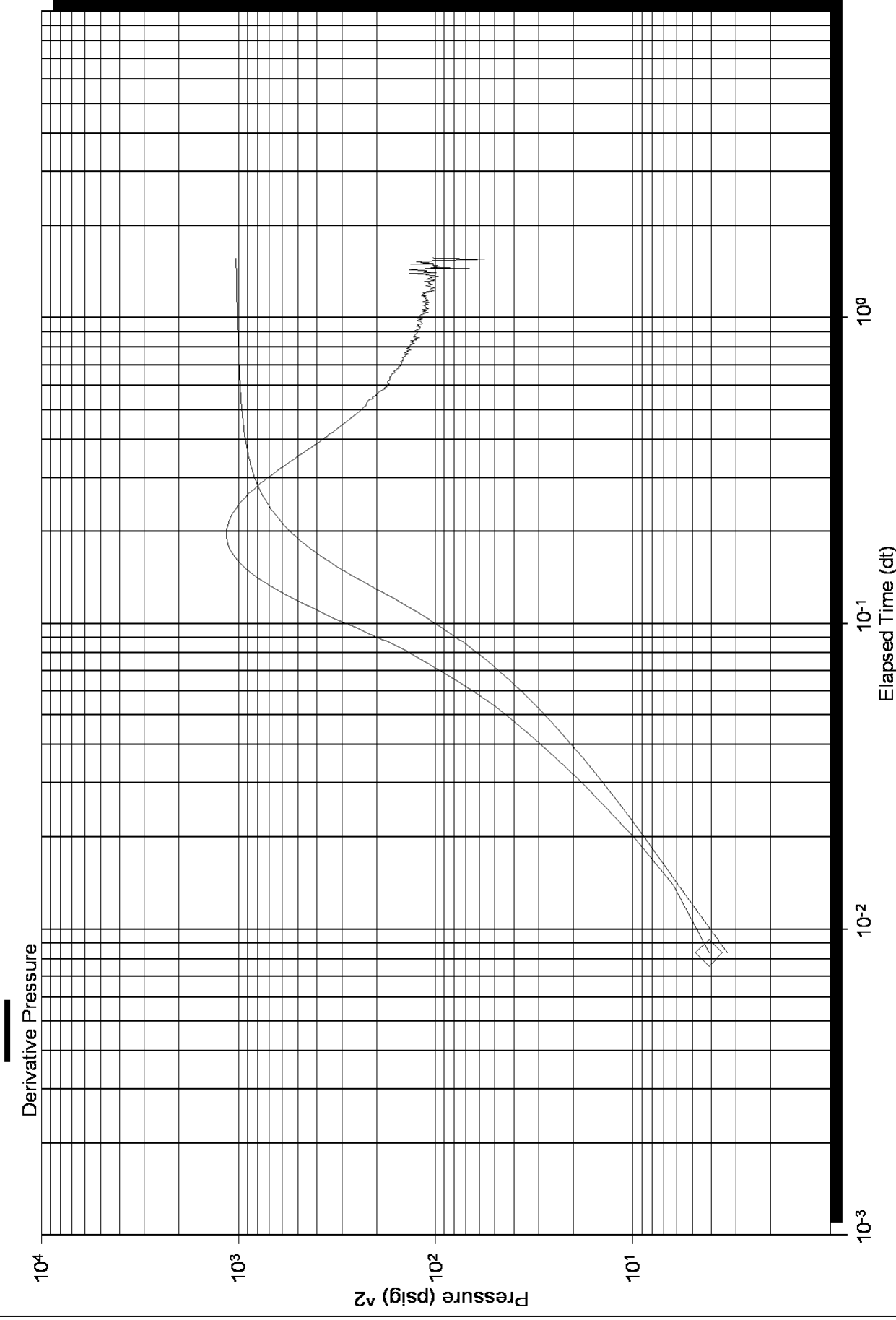
Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush

Job Ticket: 041553

DST#: 3

Test Start: 2011.02.21 @ 05:40:05

GENERAL INFORMATION:

Formation: **LKC"mid & lower G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:05:00

Time Test Ended: 14:30:30

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3314.00 ft (KB) To 3356.00 ft (KB) (TVD)

Total Depth: 3356.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1940.00 ft (KB)

1930.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8352 Outside

Press @RunDepth: 263.62 psig @ 3315.00 ft (KB)

Start Date: 2011.02.21

End Date:

2011.02.21

Start Time: 05:40:05

End Time:

14:30:30

Capacity: 8000.00 psig

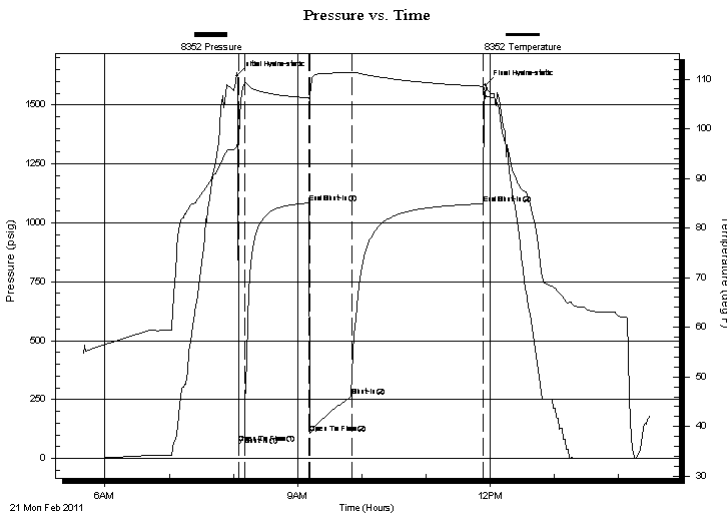
Last Calib.: 2011.02.21

Time On Btm: 2011.02.21 @ 08:03:30

Time Off Btm: 2011.02.21 @ 11:56:09

TEST COMMENT: IF:5min. BOB,3 min.
IS:60min. Weak surface blow died in 30 min.
FF:40min. BOB,4 min.
FS:120min. Weak surface blow , Throughout.

PRESSURE SUMMARY



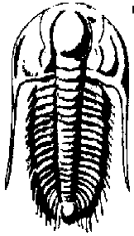
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1624.56	96.55	Initial Hydro-static
2	66.16	96.86	Open To Flow (1)
8	92.79	109.19	Shut-In(1)
68	1084.20	106.20	End Shut-In(1)
69	106.82	106.79	Open To Flow (2)
107	263.62	111.33	Shut-In(2)
230	1080.80	108.57	End Shut-In(2)
233	1585.52	106.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW m=40% w =60%	0.87
372.00	MW m=10% w =90%	5.22
62.00	OCMW o=10% m=30% w =60%	0.87
5.00	Oil,Water & Mud m=15% w =40% o=45%	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush

Job Ticket: 041553

DST#: 3

Test Start: 2011.02.21 @ 05:40:05

GENERAL INFORMATION:

Formation: **LKC"mid & lower G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:05:00

Time Test Ended: 14:30:30

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3314.00 ft (KB) To 3356.00 ft (KB) (TVD)

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3356.00 ft (KB) (TVD)

1930.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8650 Fluid

Press @RunDepth: psig @ 3280.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.21

End Date:

2011.02.21

Last Calib.:

2011.02.21

Start Time: 05:40:05

End Time:

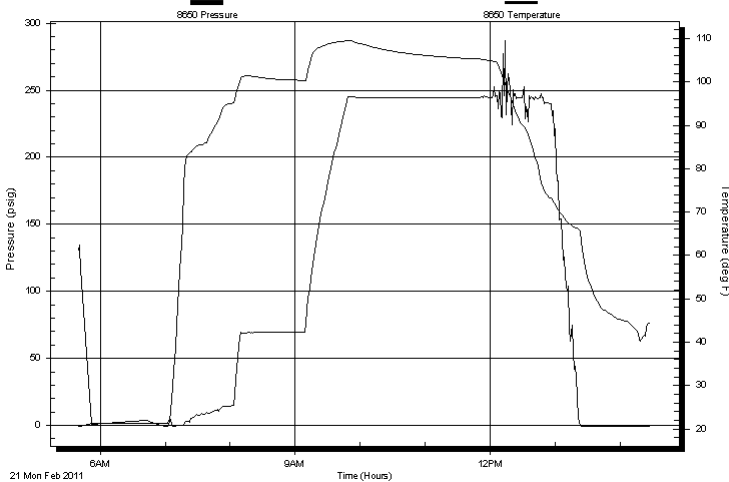
14:28:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:5min. BOB,3 min.
IS:60min. Weak surface blow died in 30 min.
FF:40min. BOB,4 min.
FS:120min. Weak surface blow , Throughout.

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
62.00	MW m=40% w =60%	0.87
372.00	MW m=10% w =90%	5.22
62.00	OCMW o=10% m=30% w =60%	0.87
5.00	Oil,Water & Mud m=15% w =40% o=45%	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush

Job Ticket: 041553

DST#: 3

Test Start: 2011.02.21 @ 05:40:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 9.60 in³

Resistivity: ohm.m

Salinity: 6800.00 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: 9500 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MW m=40% w =60%	0.870
372.00	MW m=10% w =90%	5.218
62.00	OCMW o=10% m=30% w =60%	0.870
5.00	Oil,Water & Mud m=15% w =40% o=45%	0.070

Total Length: 501.00 ft Total Volume: 7.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

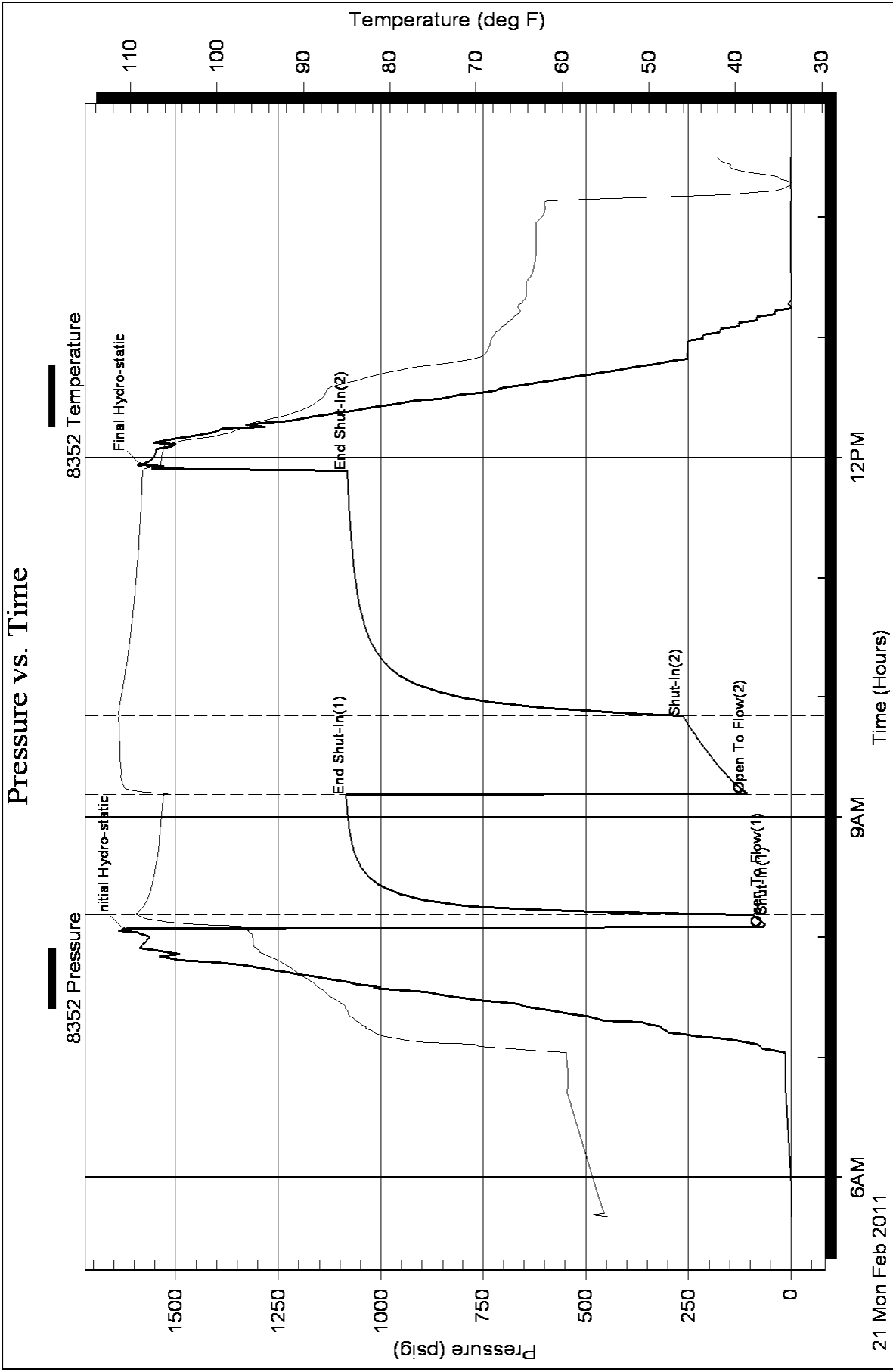
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data= 200ml-mud 800ml-water

Pressure vs. Time



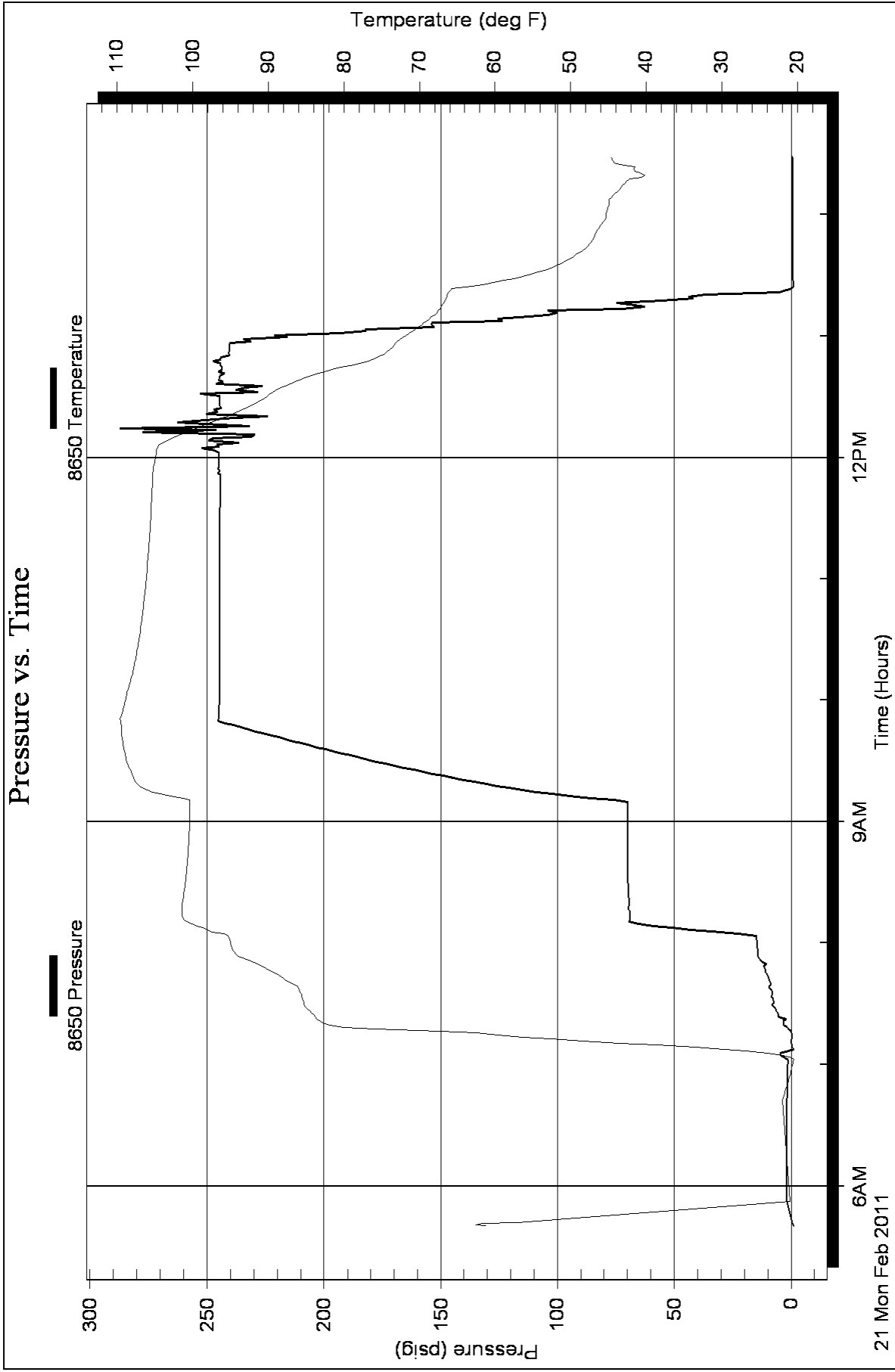
Serial #: 8650

Fluid

S.Gary Jr. & Assoc. inc.

7-16s-16w Rush

DST Test Number: 3





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041554

DST#: 4

Test Start: 2011.02.22 @ 08:50:05

GENERAL INFORMATION:

Formation: **LKC"I-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:43:50

Time Test Ended: 15:54:39

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3385.00 ft (KB) To 3447.00 ft (KB) (TVD)

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3447.00 ft (KB) (TVD)

1930.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8352 Outside

Press @RunDepth: 35.83 psig @ 3392.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.22

End Date:

2011.02.22

Last Calib.:

2011.02.22

Start Time: 08:50:05

End Time:

15:54:40

Time On Btm:

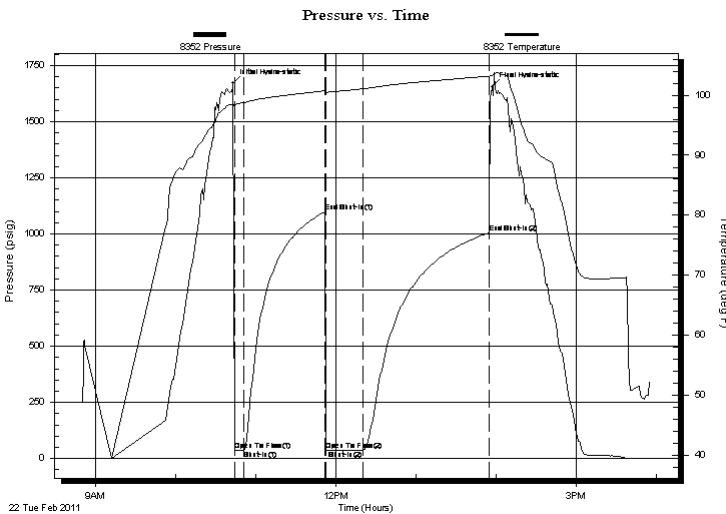
2011.02.22 @ 10:42:50

Time Off Btm:

2011.02.22 @ 13:56:50

TEST COMMENT: IF:5min. Weak half inch blow
IS:60min. No Return
FF:30min. Weak surface blow , died in 18min.
FS:90min. No Return

PRESSURE SUMMARY



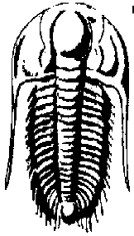
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1671.00	98.65	Initial Hydro-static
1	35.24	98.05	Open To Flow (1)
8	35.90	98.76	Shut-In(1)
69	1099.19	100.75	End Shut-In(1)
70	35.94	100.47	Open To Flow (2)
98	35.83	101.06	Shut-In(2)
192	1006.34	103.17	End Shut-In(2)
194	1654.98	103.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud m=100%	0.42

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041554

DST#: 4

Test Start: 2011.02.22 @ 08:50:05

GENERAL INFORMATION:

Formation: **LKC"I-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:43:50

Time Test Ended: 15:54:39

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3385.00 ft (KB) To 3447.00 ft (KB) (TVD)

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3447.00 ft (KB) (TVD)

1930.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8650

Fluid

Press @RunDepth: psig @ 3351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.22

End Date:

2011.02.22

Last Calib.:

2011.02.22

Start Time: 08:50:05

End Time:

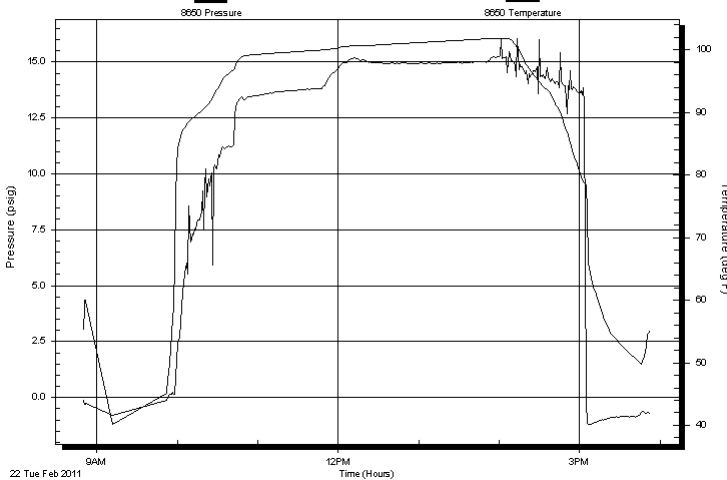
15:52:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:5min. Weak half inch blow
IS:60min. No Return
FF:30min. Weak surface blow , died in 18min.
FS:90min. No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud m=100%	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

S.Gary Jr.& Assoc. inc.

DLT 1-7

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

7-16s-16w Rush KS

Job Ticket: 041554

DST#: 4

Test Start: 2011.02.22 @ 08:50:05

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud m=100%	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

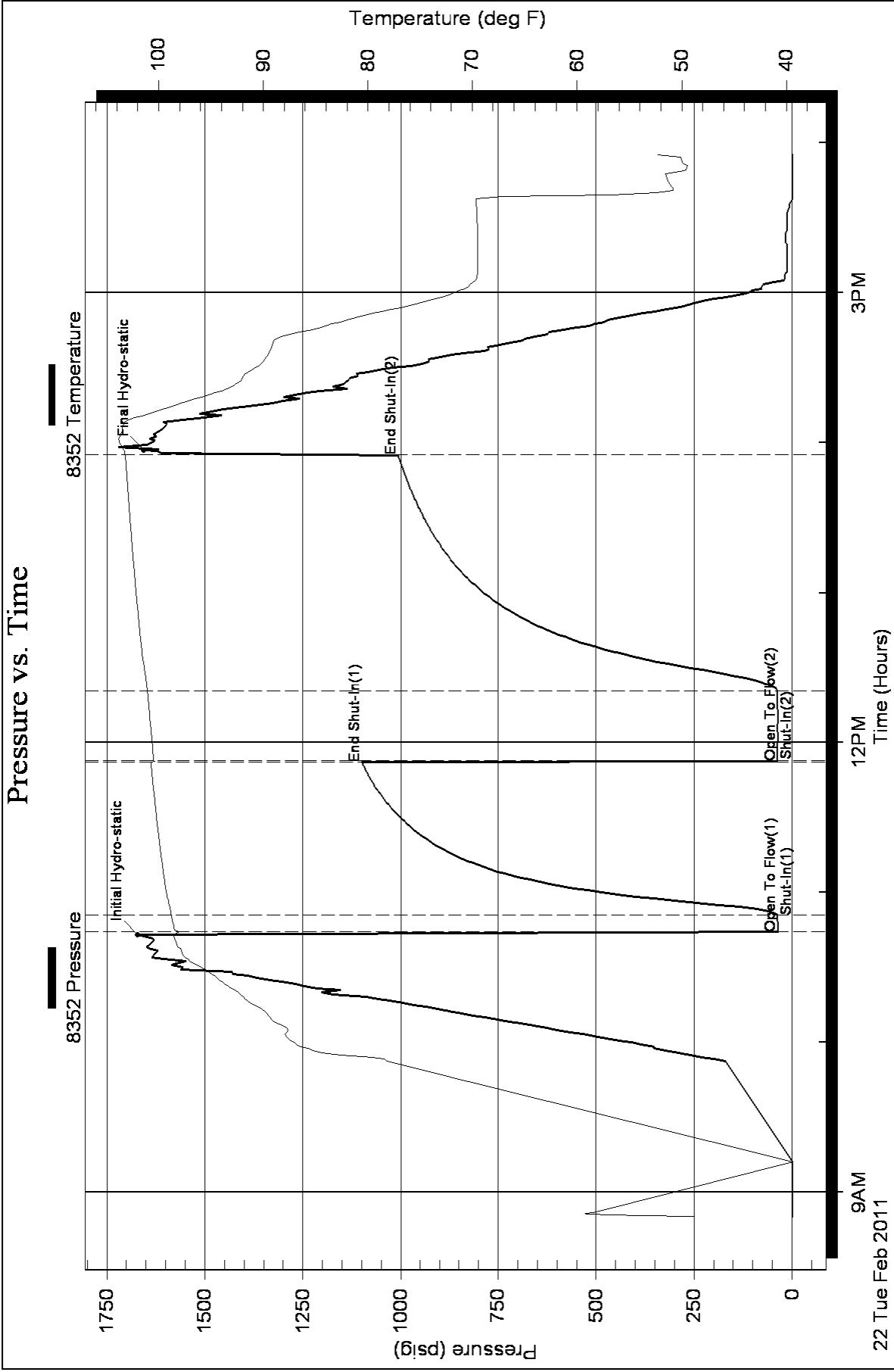
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data=

Pressure vs. Time



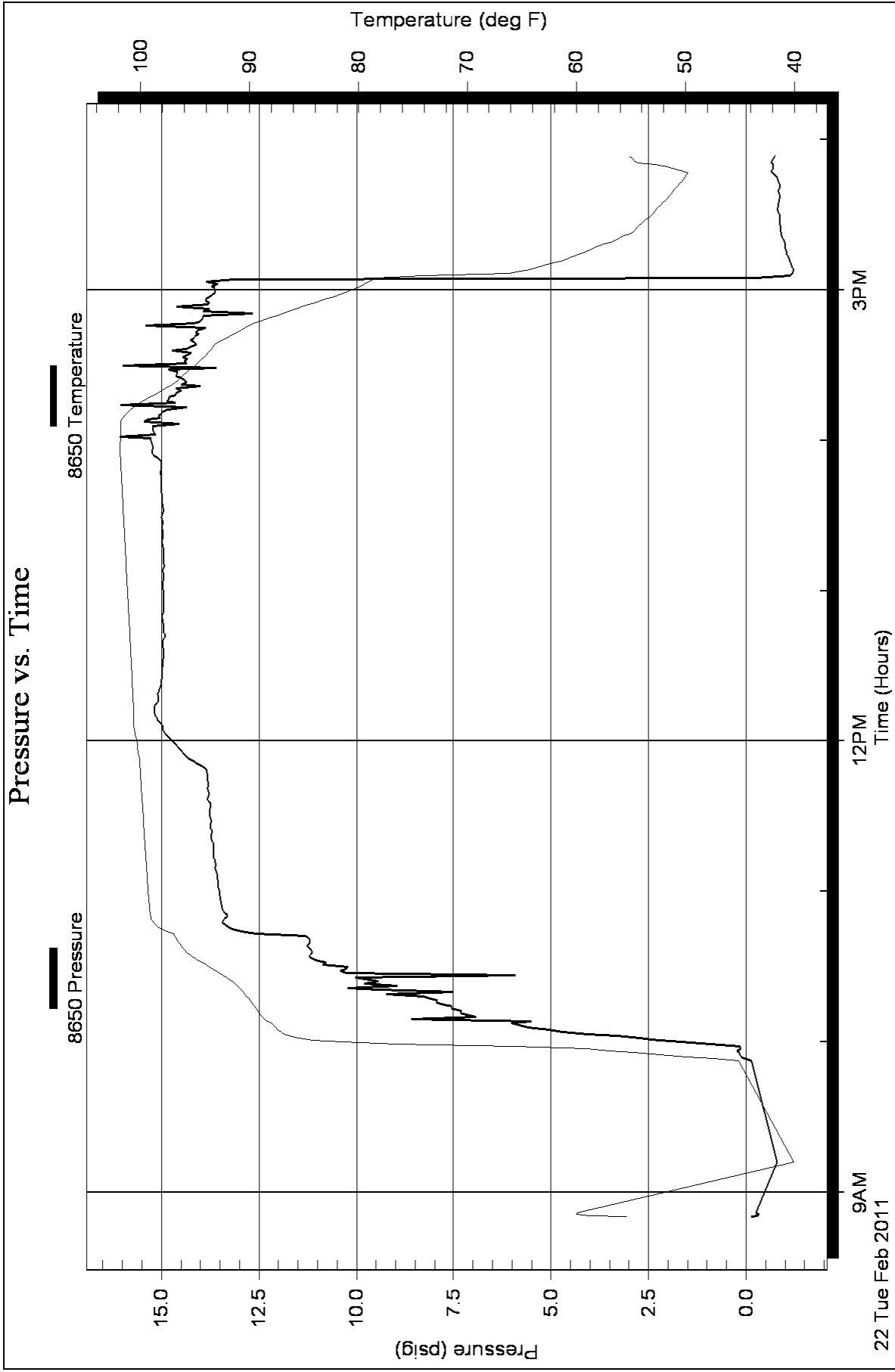
Serial #: 8650

Fluid

S.Gary Jr. & Assoc. inc.

7-16s-16w Rush KS

DST Test Number: 4





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

KANSAS CORPORATION COMMISSION 1052631
OIL & GAS CONSERVATION DIVISION

Form CP-4
March 2009

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

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

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

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

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

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

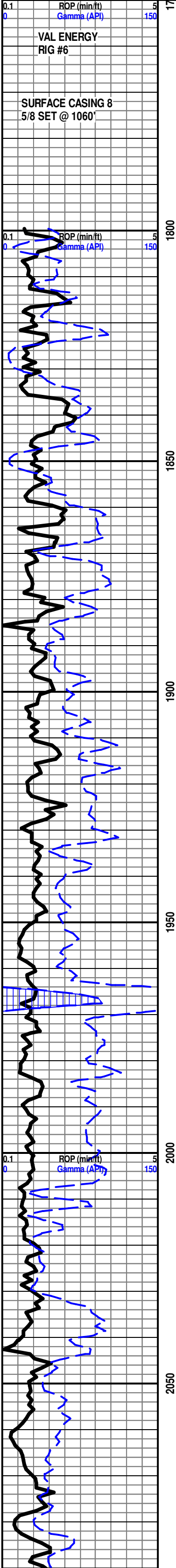
Describe in detail the manner in which the well is plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same depth placed from (bottom), to (top) for each plug set.

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

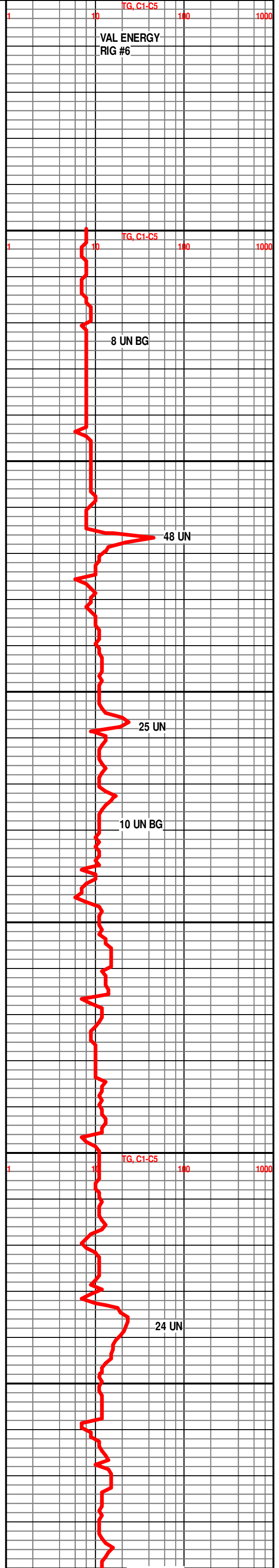
being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained, and the log of the above-described well is as filed, and the same are true and correct, so help me God.

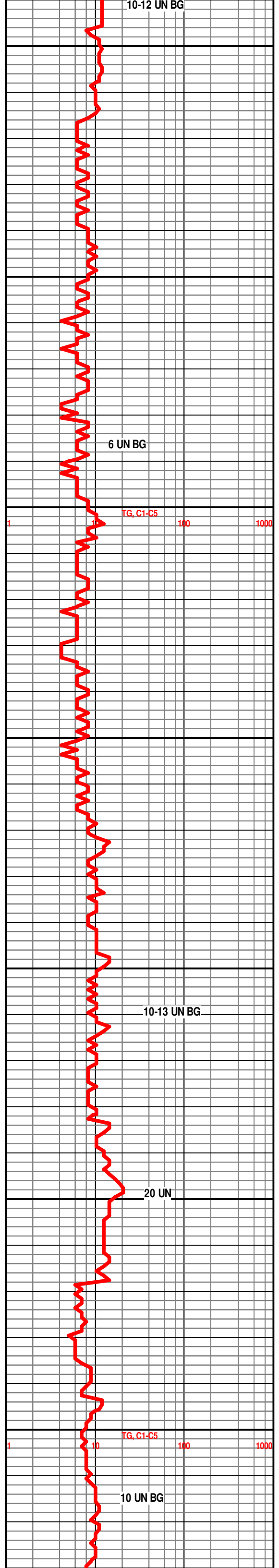
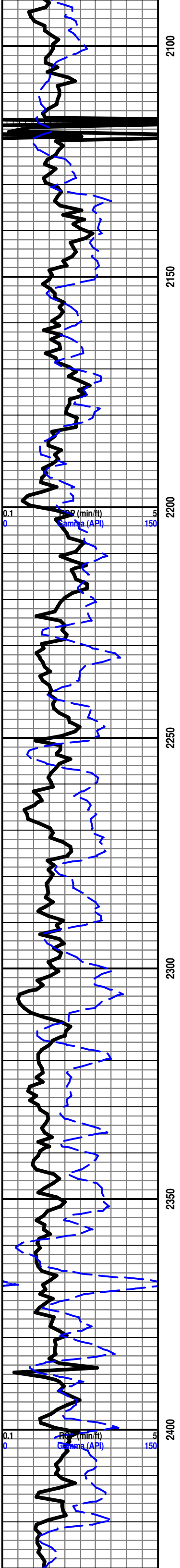
Submitted Electronically

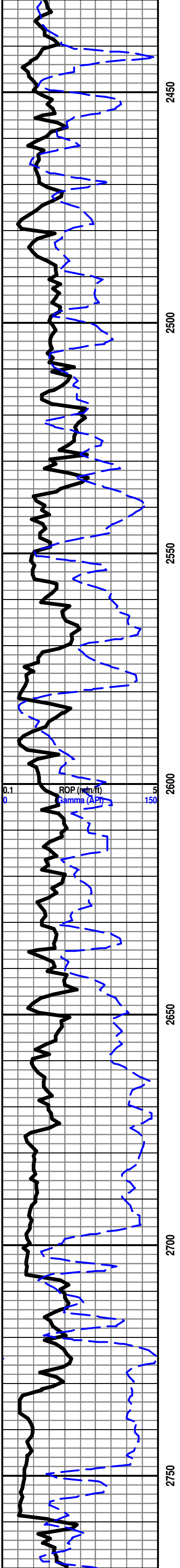
Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202



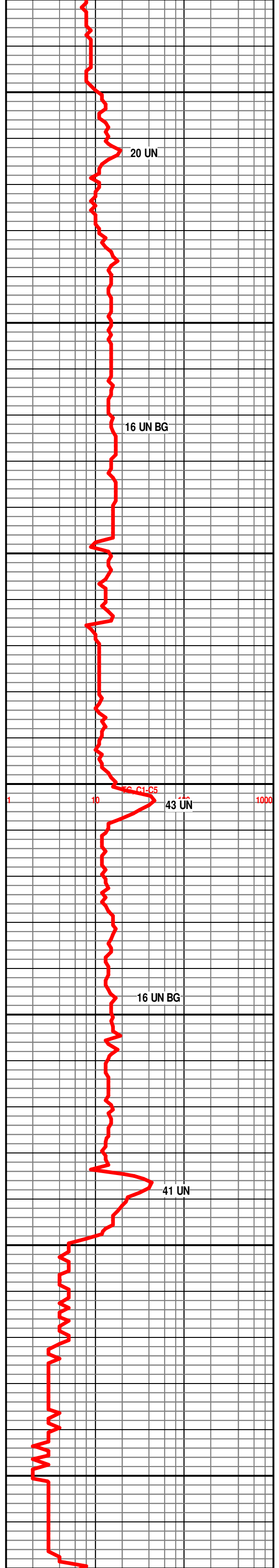
WELL - D.L.T. # 1-7
 START UNMANNED UNIT
 2/16/2011

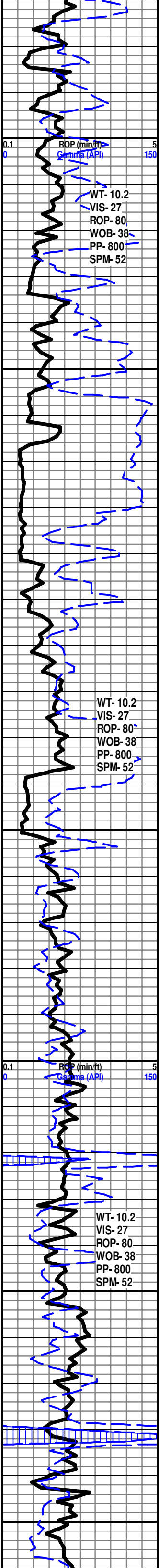






BASE ROOT SHALE @ 2706' - 766'





**START MANNED UNIT ON
2/18/2011 @ 9:10 A.M.**

LS- CRM, OFF WHT, LT GRY, TN, HD DNS, MD XLN, REXLN MTRX, CHLKY THRU, TR IMBD FOSS FRAGS, SLI TR IMBD CALC XLS, IMBD GRN CLAY IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- LT GRY TO GRY, SFT, BLKY

LS- CRM, OFF WHT, GRY, TN, HD DNS TO BRITT, MD XLN, REXLN MTRX THRU, CHLKY IP, IMBD FOSS FRAGS, IMBD CALC XLS IP, V/SLI TR IMBD PYR, DLL TO BRIT MIN FLO, NO VIS POR, NO VIS SHOW

SH- LT GRY TO GRY, SFT, BLKY

SH- LT GRY TO GRY, SFT, BLKY TO SPLINTY IP

HOWARD 2892' - 952'

LS- CRM, LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX, SUCRO TXT IP, WET CHLK IP, IMBD FOSS FRAGS IP, V/PR TR OF DEAD OIL STAIN ON THREE ROCKS, BRIT YEL FLO IP V/PR TR PP POR, NO VIS FLUSH CUT, PR BLUE STREAM CUT, NO OIL ODER

LS- CRM, LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, SUCRO TXT THRU, TR CHLK THRU, IMBD FOSS FRAGS, IMBD CALC XLS IP, DEAD OIL STAIN ON ONE ROCK, BRIT YEL FLO IP, PR VUG POR, TR OF PR FRAC POR ON ONE ROCK, NO VIS CUT, NO VIS SHOW

SEVERY 2938' - 998'

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

TOPEKA 2951' - 1011'

LS- CRM LT TN TO TN, HD DNS TO BRITT, V/FN SUCRO MTRX, V/TT, IMBD FOSS FRAGS THRU, TR IMBD CALC XLS IP, IMBD PYR IP TO DISS PYR SCAT THRU, DLL TO BRIT YEL FLO THRU, V/PR MICRO PP POR SCAT THRU, GD INST FLUSH CUT IN 50% TO GD SLOW STREAM CUT IN 50%, V/PR OIL ODER, DK BRN OIL STAIN IN 75%

T.O.H @ 2:30 P.M. ON 2-18-2011, HOLE IN PIPE

T.I.H @ 4:20 P.M. BACK TO DRILLING @ 5:30 P.M.

LS- CRM OFF WHT, LT TN TO TN, DUE TO OIL STAIN ON 50%, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX, SUCRO TXT THRU, IMBD FOSS FRAGS THRU, IMBD CALC XLS THRU, DLL YEL MIN FLO, V/SLI TR MICRO PP POR, NO VIS CUT, NO VIS SHOW

SH- SFT BLACK CARB SHALE

SH- SFT BLACK CARB SHALE

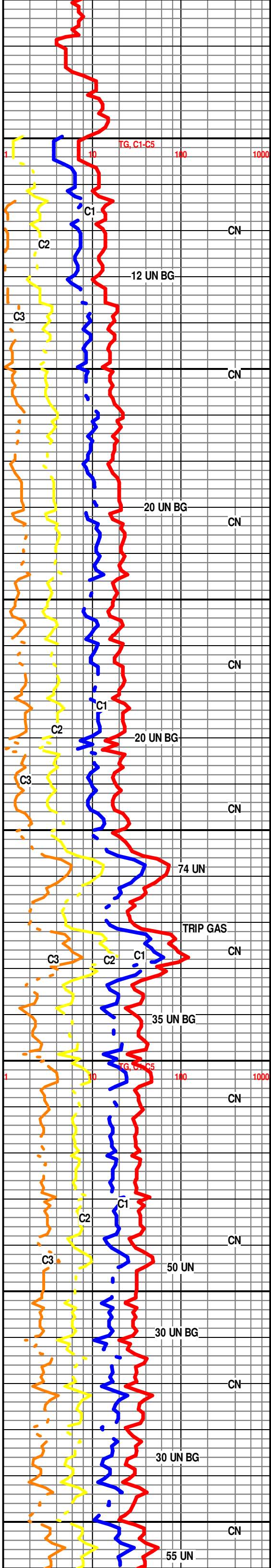
LE COMPTON 3053' - 1113'

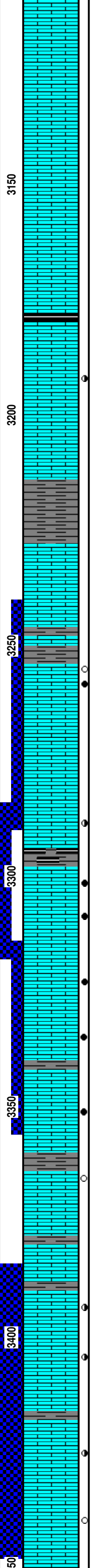
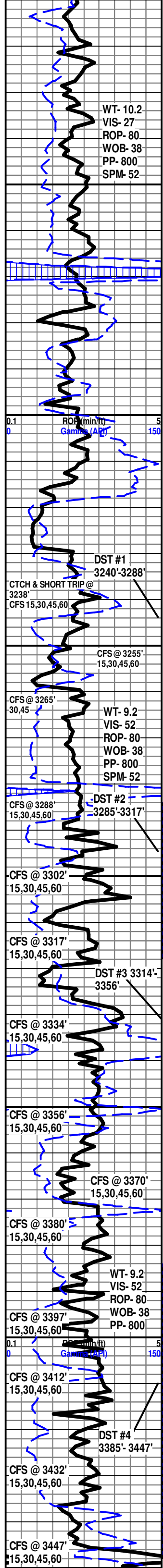
LS- CRM OFF WHT, LT TN TO TN, HD DNS, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS THRU, TR IMBD GRY SHALE IP, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT NO VIS SHOW

SH- GRY TO BLK, FRM, SPLINTY, CALC

SH- SFT BLACK CARB SHALE

LS- CRM LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX, SUCRO TXT SCAT THRU, SFT WHT CHLK IP, IMBD FOSS FRAGS IP, DLL YEL MIN FLO, V/PR MICRO PP POR SCAT THRU, NO VIS CUT, NO VIS SHOW





LS- CRM OFF WHT TO WHT, LT TN TO TN, HD DNS TO BRITT, V/FN TO MD XLN, REXLN MTRX IP, FOSS FRAGS THRU, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

LS- CRM OFF WHT, LT TN TO TN, HD DNS TO BRITT, MD XLN, REXLN MTRX IP, FOSS FRAGS THRU, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

HEEBNER 3178' - 1238'

SH- SFT BLACK CARB SHALE

LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, V/FN XLN TO FN XLN, REXLN MTRX IP, FOSS FRAGS IP, OIL STAIN ON 20%, DLL TO TR BRITT YEL MIN FLO, V/PR MICRO PP POR, GD FLUSH CUT TO SLOW STREAM CUT, NO ODER, NO STAIN ON DISH

DOUGLAS 3215' - 1275'

SH- GRY TO DK GRY, FRM, BLKY

LANSING 3229' - 1289'

LS- CRM OFF WHT TO WHT, LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX, IMBD FOSS FRAGS, SLI TR CHLK, CALC XLS IP, DLL YEL TO BRIT YEL FLO THRU, SLI TR OF PR MICRO PP POR, NO VIS CUT, NO VIS SHOW

SH- GRN, SFT, V/GUMMY TXT

3255' LS- CRM LT TN TO TN, HD DNS, FN XLN TO S/SUCRO MTRX, NO STAIN, BRIT YEL FLO, NO VIS POR, NO FLUSH CUT, V/PR SLOW STREAM CUT, GD OIL ODER

3257' LS- OFF WHT CRM TN, (STAIN IN 60%) HD DNS TO BRITT, MD XLN REXLN MTRX, V/MICRO OOL, TR FOSS FRAGS, CALC XLS SCAT THRU, DISS PYR SCAT THRU IN 30%, BRIT YEL GLD IN 60%, DLL YEL FLO THRU, PR FR TO GD MICRO VUG POR IN 60%, PR TO FR SCAT MICRO PP POR IN 20%, INST FLUSH CUT THRU, EXT SLOW STREAM MLKY BLUE CUT IN 80%, GD OIL ODER

3288' LS- CRM LT TN TO TN, STAIN IN 30%, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX, MICRO OOL, SLI TR DISS PYR, BRIT TO GLD FLO, FR VUG POR IN 30%, PR MICRO PP POR IN 10%, V/PR FLUSH CUT THRU, FR SLOW STREAM CUT IN 20%, GD OIL ODER

3295' SH- DK GRY TO BLACK, FRM, SMTH SPLINTY, BLACK CARB SHALE SCAT THRU

3302' LS- CRM LT TN TO TN, STAIN IN 60%, HD DNS TO V/BRITT, V/FN TO FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, SLI TR MICRO OOL IP, BRIT YEL TO GLD FLO THRU, PR TO FR MICRO PPPOR IN 30%, V/PR INTR XLN POR IN 10%, INST FLUSH CUT, GD SLOW STREAM MLKY BLUE CUT IN 30%, GD OIL ODER, LT BRN STAIN ON DISH

3308' LS- OFF WHT TO CRM LT TN TO TN, STAIN IN 70%, HD DNS TO BRITT, FN XLN TO REXLN MTRX THRU, SUCRO TXT SCAT, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, LIVE OIL IN 40%, DEAD OIL ON 10%, BRIT YEL TO GLD FLO, TR FR VUG POR, TO FR MIRCOP PP POR, EXT INST FLUSH CUT THRU, VGD STRONG STREAM MLKY BLUE CUT THRU, EXT OIL ODER. BRN STAIN ON DISH

3322' LS- CRM OFF WHT LT TN TO TN, STAIN IN 70% HD DNS TO BRITT, FN XLN REXLN MTRX, CALC XLS, SLI TR MICRO OOL IP, BRIT YEL FLO THRU, FR INTER XLN POR, SLI TR VUG POR, INST FLUSH CUT TO GD STRONG STREAM MLKY BLUE CUT, GD OIL ODER, LT BRN STAIN ON DISH

3334' LS- CRM LT TN TO TN, STAIN IN 80%, HD DNS TO BRITT, V/FN TO FN XLN, CALC XLS IP, LIVE STAIN ON 20%, BRIT YEL TO GLD FLO, TR FR VUG POR 30%, FR MICRO PP POR IN 20%, EXT FLUSH CUT, TO STRONG STREAM MLKY BLUE CUT, EXT OIL ODER, BRN STAIN ON DISH

3350' LS- CRM LT TN TN, STAIN IN 40%, HD DNS TO V/BRITT, V/FN TO FN XLN, REXLN MTRX, SUCRO TXT SCAT IP, CALC XLS IP, PR LIVE OIL ON 10%, BRIT YEL TO GLD FLO, PR PP POR, TO SLI TR PR VUG POR, INST FLUSH CUT TO GD STRONG SLOW STREAM MLKY BLUE CUT, FR TO GD OIL ODER

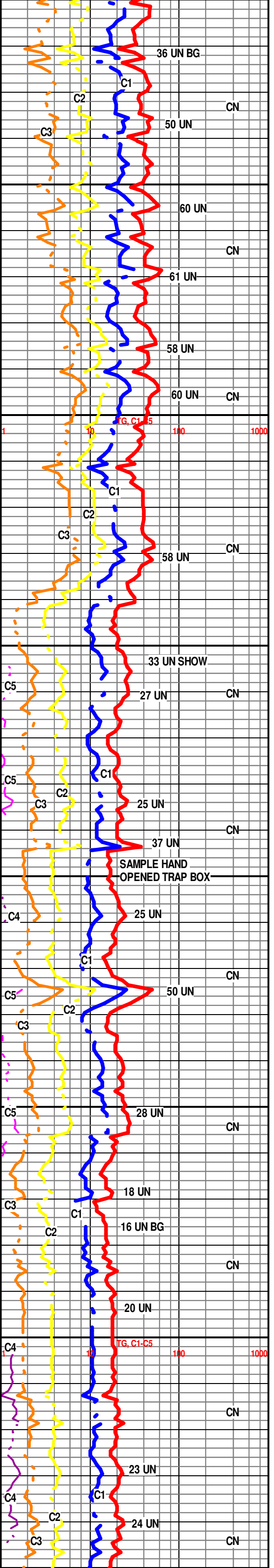
3362' LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN XLN REXLN MTRX, CALC XLS IP, V/PR STAIN ON 20%, BRIT YEL FLO SCAT THRU, PR MICRO PP POR TO V/SLI TR PR VUG POR, PR FLUSH CUT TO V/PR MLKY BLUE STREAM CUT, NO TO V/PR OIL ODER

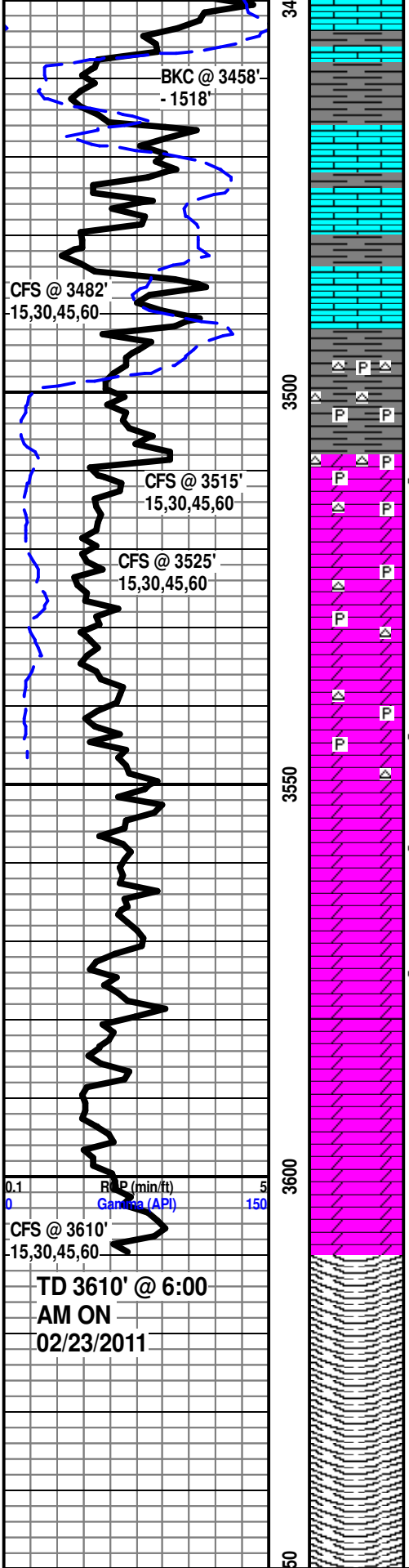
3375' LS- CRM OFF WHT TO WHT LT TN, HD DNS TO BRITT, FN XLN REXLN MTRX THRU, IMBD FOSS FRAGS IP, DLL TO BRIT YEL MIN FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW

3393' LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX, V/SLI TR CHLK, CALC XLS IP, DLL TO GLD FLO, PR MICRO PP POR TO V/SLI TR PR VUG POR, GD FLUSH CUT THRU TO GD STRONG STREAM MLKY BLUE CUT THRU, V/PR OIL ODER

3404' LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN XLN REXLN MTRX, IMBD CALC XLS IP, STAIN ON 40%, BRIT YEL FLO, PR TR VUG POR, PR MICRO PP POR, PR FLUSH CUT THRU TO FR SLOW STREAM MLKY BLUE CUT IN 30%, FR TO PR OIL ODER

3424' LS- CRM OFF WHT TO WHT LT TN, HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX, IMBD CALC XLS IP, FOSS FRAGS IP, BRIT YEL FLO, PR TR MICRO PP POR, PR TR MICRO VUG POR, FR FLUSH CUT IN 50%, FR TO GD





SLOW STREAM MLKY BLUE CUT IN 30%, PR TO FR OIL ODER

3437' LS- CRM OFF WHT LT TN, HD DNS TO BRITT, FN XLN REXLN MTRX, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, BRIT YEL FLO SCAT THRU, PR TR OF PR MICRO VUG POR IN 20%, PR MICRO PP POR IN 10%. PR FLUSH CUT TO PR SLOW STREAM MLKY BLUE CUT IN 20%, PR OIL ODER

BKC 3458' SH- RD DK RED, FRM BLKY TO GUMMY TXT THRU

LS- OFF WHT CRM LT TN, HD DNS, VFN TO FN XLN, SUCRO MTRX THRU, IMBD CALC XLS IP, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT NO VIS SHOW

SH- RD TO DK RD, FRM BLKY, GUMMY THRU, PYR THRU, YELISH TO WHT CHRT THRU

ARBUCKLE 3508' - 1568'

3508'-3515' DOL- WHT CRM, HD DNS TO BRITT, VFN TO FN XLN, REXLN MTRX, IMBD SUB-ANG SM DOL XLS, WHTISH CHRT SCAT THRU, TR PYR SCAT IP, DEAD OIL ON 10%, DLL YEL TO BRIT YEL FLO, PR INTR XLN POR, V/PR MICRO PP POR, GD FLUSH CUT TO NO VIS STREAM CUT, NO OIL ODER

3515'-3525' DOL- WHT CRM, HD DNS TO BRITT, VFN TO FN XLN, REXLN MTRX, IMBD ANG SM DOL XLS THRU, WHTISH CHRT SCAT THRU, DLL YEL TO BRIT YEL FLO, V/PR INTR XLN POR, PR MICRO PP POR, GD FLUSH CUT, V/PR SLOW STREAM MLKY BLUE CUT, NO OIL ODER

3530'-3550' DOL- WHT CRM, HD DNS TO BRITT, VFN TO FN XLN, REXLN MTRX, IMBD ANG SM DOL XLS THRU, PYR SCAT THRU, WHTISH CHRT SCAT THRU, DLL YEL TO BRIT YEL FLO, PR INTR XLN POR, PR MICRO PP POR, PR FLUSH CUT, NO VIS STREAM CUT, NO OIL ODER

3550'-3570' DOL- WHT CRM, HD DNS TO BRITT, VFN TO FN XLN, REXLN MTRX, IMBD ANG SM DOL XLS THRU, PYR SCAT THRU, DLL YEL TO BRIT YEL FLO, PR INTR XLN POR, PR FLUSH CUT, NO VIS STREAM CUT, NO OIL ODER

DOL- WHT CRM, HD DNS TO BRITT, VFN TO FN XLN, REXLN MTRX, IMBD ANG SM DOL XLS THRU, DLL YEL TO BRIT YEL FLO, PR INTR XLN POR, PR FLUSH CUT, NO VIS STREAM CUT, NO OIL ODER

DOL- WHT CRM, HD DNS TO BRITT, VFN TO FN XLN, REXLN MTRX THRU, MD DOL XLS THRU, DLL YEL TO BRIT YEL FLO, PR INTR XLN POR, NO VIS CUT, NO VIS SHOW

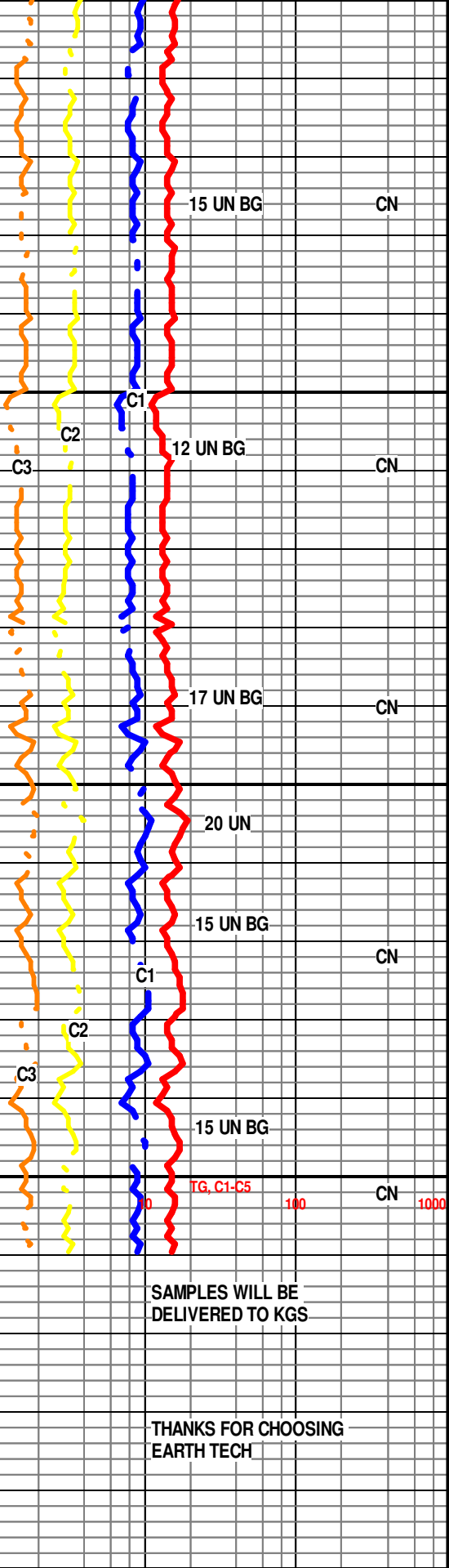
DOL- WHT CRM, HD DNS TO BRITT, VFN TO FN XLN, REXLN MTRX THRU, MD DOL XLS THRU, DLL YEL FLO, PR INTR XLN POR, NO VIS CUT, NO VIS SHOW

RTD 3610' @ 6:00 AM 02/23/2011

CTCH 1.0 HRS

TOFL

WEATHERFORD/ LIBERAL



0.1 R/P (min/ft)
0 Gamma (API)
5
150

CFS @ 3610' - 15,30,45,60

TD 3610' @ 6:00 AM ON 02/23/2011

TG, C1-C5
100
1000

CN

SAMPLES WILL BE DELIVERED TO KGS

THANKS FOR CHOOSING EARTH TECH