



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
---	---

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	Yarmer et al 1-26
Doc ID	1060174

All Electric Logs Run

DENS
IND
MICRO
SONIC
SPECTRAL

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



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

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

Sam Brownback, Governor

July 25, 2011

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

Re: ACO1
API 15-165-21917-00-00
Yarmer et al 1-26
NW/4 Sec.26-16S-16W
Rush County, Kansas

Dear Production Department:

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

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

Respectfully,
NEIL SHARP



QUALITY OILWELL CEMENTING, INC.

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

Date: 4/3/2011
 Invoice # 5051

P.O.#:
 Due Date: 5/3/2011
 Division: Russell

Invoice

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

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	YARMER ET AL 1-26
Deck	
AFE	
Approval	KCS
Description	

Reference:
 YARMER ET. AL 1-26

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 693.97	No				
Common-Class A	400	\$ 4,945.07	Yes				
8 5/8" Basket	3	\$ 960.64	Yes				
Bulk Truck Matl-Material Service Charge	422	\$ 855.25	No				
Calcium Chloride	14	\$ 534.27	Yes				
Pump Truck Mileage-Job to Nearest Camp	28	\$ 283.17	No				
8 5/8" Centralizer	3	\$ 194.56	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$ 165.70	No				
Premium Gel (Bentonite)	8	\$ 131.98	Yes				
8 5/8" Top Rubber Plug	1	\$ 107.41	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 91.20	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 9,165.88
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,374.88)

SubTotal for Taxable Items:	\$ 6,092.62
SubTotal for Non-Taxable Items:	\$ 1,108.50
Total:	\$ 7,791.00
Tax:	\$ 383.84
Amount Due:	\$ 8,174.84
Applied Payments:	
Balance Due:	\$ 8,174.84

6.30% Rush County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

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. 5051

Date: <u>3-30-11</u>	Sec. <u>20</u>	Twp. <u>16</u>	Range <u>16</u>	County <u>Rush</u>	State <u>Kansas</u>	On Location	Finish <u>7:30pm</u>
Lease <u>Jarvis et al</u>	Well No. <u>1-26</u>		Location <u>Gabata SW</u>				
Contractor <u>VA Energy Rig</u>				Owner			
Type Job <u>Surface</u>				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 <u>12 1/4</u>	T.D. <u>1070</u>		Charge To <u>Samuel Gary Sr. & Associates</u>				
Csg. <u>8 3/8 23lb</u>	Depth <u>1070</u>		Street				
Tbg. Size	Depth		City				
Tool	Depth		State				
Cement Left in Csg.	Shoe Joint <u>42'</u>		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace <u>654Bb</u>		Cement Amount Ordered <u>400 Common 35cc 26lb</u>				

EQUIPMENT

Pumptrk <u>5</u>	No.	Cementer <u>Steve</u>		<u>4 1/2 Flo Seal</u>
		Helper		Common <u>400</u>
Bulktrk <u>4</u>	No.	Driver <u>Brendan</u>		Poz. Mix
		Driver <u>Neale</u>		Gel: <u>8</u>

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal <u>100#</u>
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
<u>Cement did Circulate</u>	Handling <u>122</u>
	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	<u>3</u>
Baskets	<u>3</u>
AFU Inserts	<u>Baffle plate</u>
Float Shoe	
Latch Down	<u>1 8 1/8 Rubber plug</u>

Pumptrk Charge Long Surface
Mileage 28

X Signature Ruby Ryan

Tax _____
Discount _____
Total Charge _____



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42786

DST#: 1

ATTN: Neal Sharp

Test Start: 2011.04.02 @ 21:37:12

GENERAL INFORMATION:

Formation: **Toronto/Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:25:12

Time Test Ended: 06:19:12

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 42

Interval: 3196.00 ft (KB) To 3270.00 ft (KB) (TVD)

Reference Elevations: 1975.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

1965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8700 Outside

Press @ Run Depth: 240.98 psig @ 3199.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.02

End Date: 2011.04.03

Last Calib.: 2011.04.03

Start Time: 21:37:17

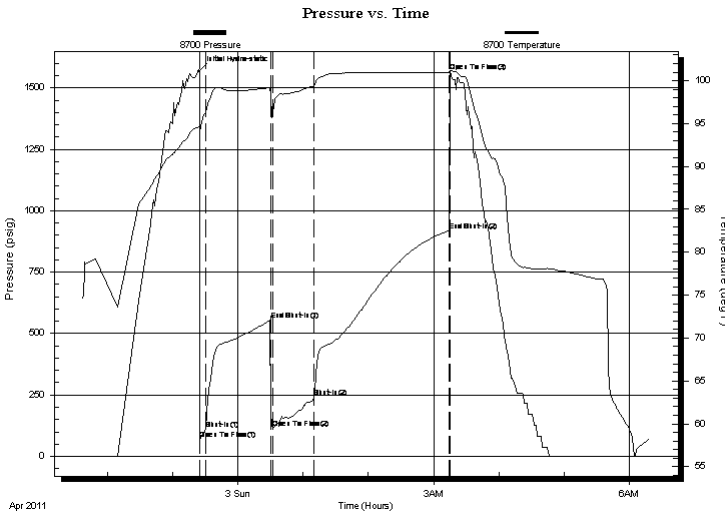
End Time: 06:19:12

Time On Btm: 2011.04.02 @ 23:24:42

Time Off Btm:

TEST COMMENT: IF-5 Strong building blow . BOB in 1 minute 40 seconds.
ISI-60 Return @ 6 minutes. Built to 5&1/2 inches.
FF-30 Strong building blow . BOB in 10 seconds. GTS in 13 minutes. TSTM.
FSI-120 Return @ 10

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1569.98	94.69	Initial Hydro-static
1	68.20	94.20	Open To Flow (1)
6	109.95	96.26	Shut-In(1)
66	554.88	99.19	End Shut-In(1)
68	116.53	96.32	Open To Flow (2)
105	240.98	99.35	Shut-In(2)
230	918.50	100.92	End Shut-In(2)
231	1565.74	101.18	Open To Flow (3)

Recovery

Length (ft)	Description	Volume (bbl)
186.00	50%Gas/30%Mud/20%Oil	2.61
186.00	50%Gas/40%Mud/10%Oil	2.61
158.00	80%Mud/10%Oil/10%Gas	2.22
0.00	2661' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42786

DST#: 1

ATTN: Neal Sharp

Test Start: 2011.04.02 @ 21:37:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	50%Gas/30%Mud/20%Oil	2.609
186.00	50%Gas/40%Mud/10%Oil	2.609
158.00	80%Mud/10%Oil/10%Gas	2.216
0.00	2661' G.I.P.	0.000

Total Length: 530.00 ft

Total Volume: 7.434 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

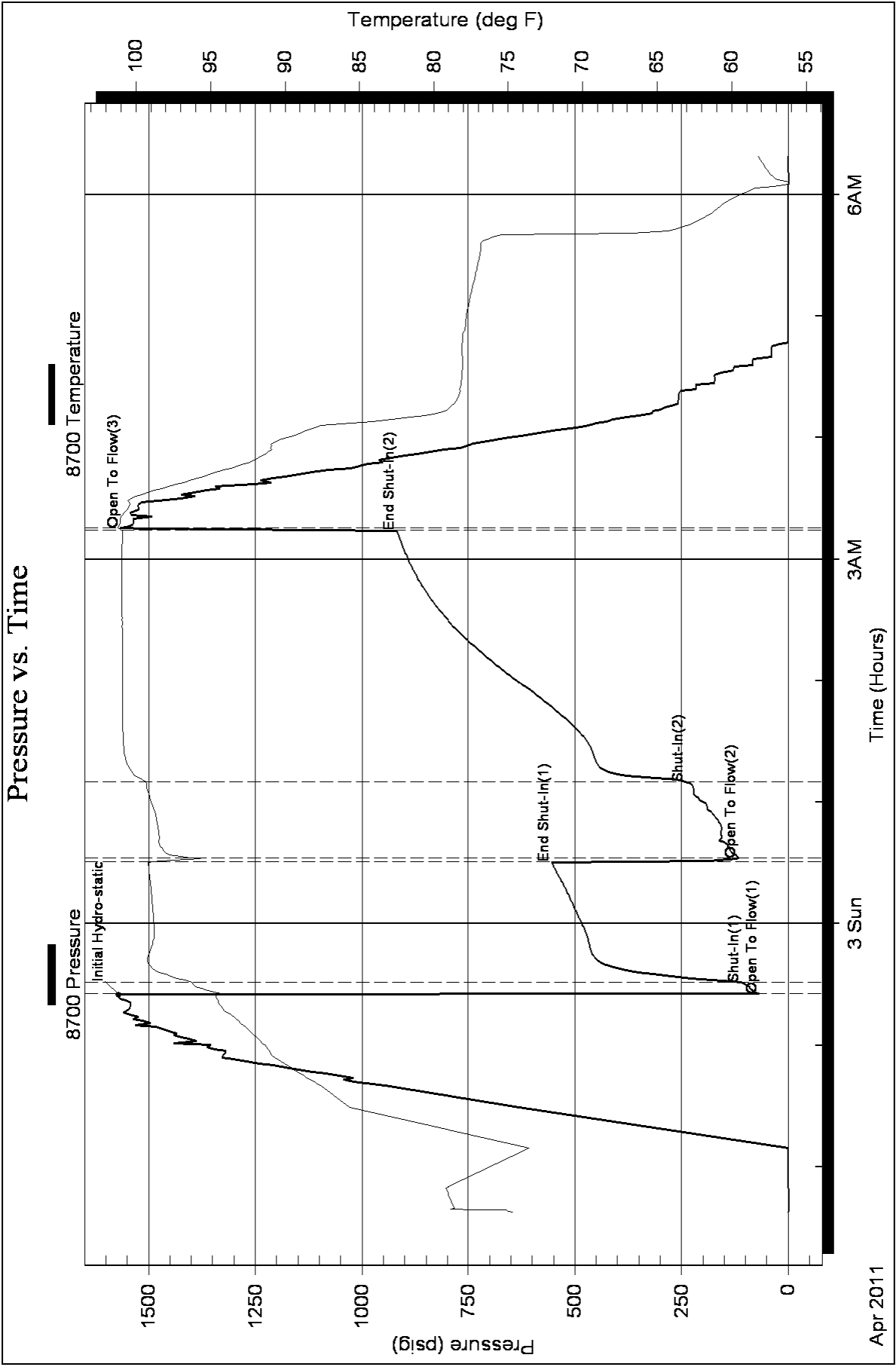
Serial #:

Laboratory Name: Caraway

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42787

DST#: 2

ATTN: Neal Sharp

Test Start: 2011.04.03 @ 12:48:12

GENERAL INFORMATION:

Formation: **Lansing 'C'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:22:42

Time Test Ended: 22:49:42

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 42

Interval: 3272.00 ft (KB) To 3291.00 ft (KB) (TVD)

Reference Elevations: 1975.00 ft (KB)

Total Depth: 3291.00 ft (KB) (TVD)

1965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6625 Inside

Press @ Run Depth: 321.96 psig @ 3275.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.03

End Date:

2011.04.03

Last Calib.:

2011.04.04

Start Time:

12:48:17

End Time:

22:49:42

Time On Btm:

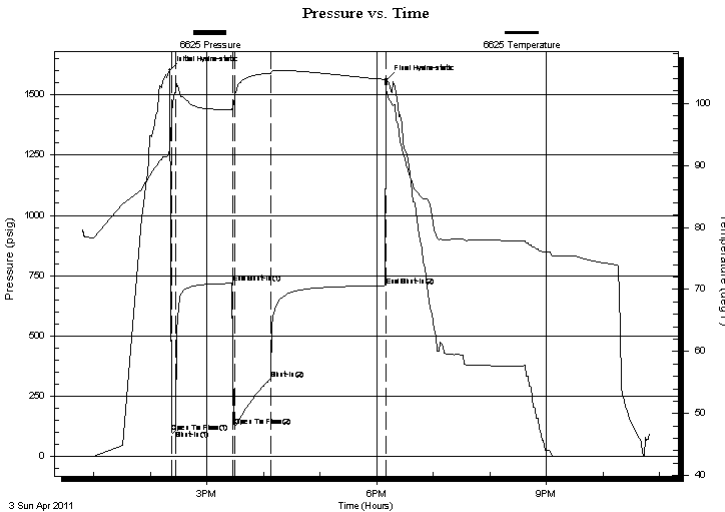
2011.04.03 @ 14:20:42

Time Off Btm:

2011.04.03 @ 18:10:42

TEST COMMENT: IF-Strong building blow . BOB in 15 seconds.
ISI-Return @ 15 seconds. BOB in 1.5 minutes. GTS @ 13 minutes.
FF-Strong building blow . BOB in 15 seconds. Gauged Gas.
FSI-Return @ 15 seconds. BOB in 1

PRESSURE SUMMARY



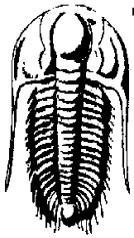
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.72	92.74	Initial Hydro-static
2	100.20	98.62	Open To Flow (1)
6	109.74	101.92	Shut-In(1)
67	718.27	99.00	End Shut-In(1)
69	127.47	100.97	Open To Flow (2)
107	321.96	104.90	Shut-In(2)
229	709.56	103.89	End Shut-In(2)
230	1564.01	101.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
880.00	75%Oil/25%Gas	12.34
0.00	2375' G.I.P.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.76
Last Gas Rate	0.13	4.00	6.89
Max. Gas Rate	0.13	5.00	7.26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42787

DST#: 2

ATTN: Neal Sharp

Test Start: 2011.04.03 @ 12:48:12

GENERAL INFORMATION:

Formation: **Lansing 'C'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:22:42

Time Test Ended: 22:49:42

Interval: 3272.00 ft (KB) To 3291.00 ft (KB) (TVD)

Total Depth: 3291.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 42

Reference Elevations: 1975.00 ft (KB)

1965.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8374 Fluid

Press@RunDepth: psig @ 3243.00 ft (KB)

Start Date: 2011.04.03

End Date: 2011.04.03

Start Time: 12:47:58

End Time: 22:48:57

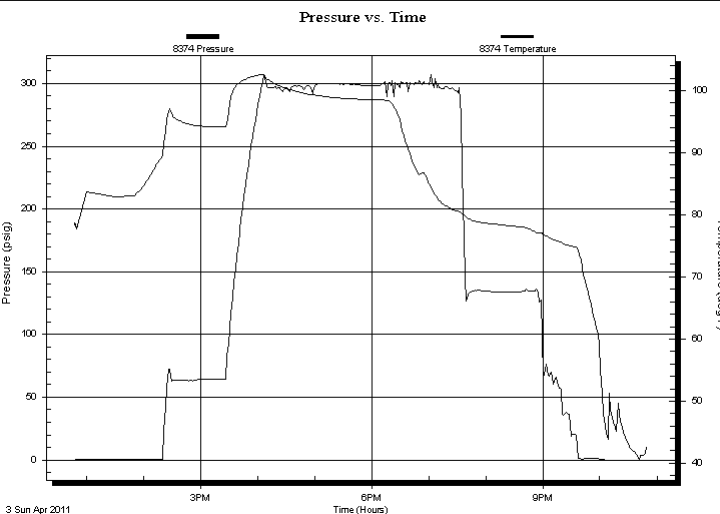
Capacity: 8000.00 psig

Last Calib.: 2011.04.04

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Strong building blow . BOB in 15 seconds.
ISI-Return @ 15 seconds. BOB in 1.5 minutes. GTS @ 13 minutes.
FF-Strong building blow . BOB in 15 seconds. Gauged Gas.
FSI-Return @ 15 seconds. BOB in 1



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
880.00	75%Oil/25%Gas	12.34
0.00	2375' G.I.P.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.76
Last Gas Rate	0.13	4.00	6.89
Max. Gas Rate	0.13	5.00	7.26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42787

DST#: 2

ATTN: Neal Sharp

Test Start: 2011.04.03 @ 12:48:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

47 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
880.00	75%Oil/25%Gas	12.344
0.00	2375' G.I.P.	0.000

Total Length: 880.00 ft Total Volume: 12.344 bbl

Num Fluid Samples: 0

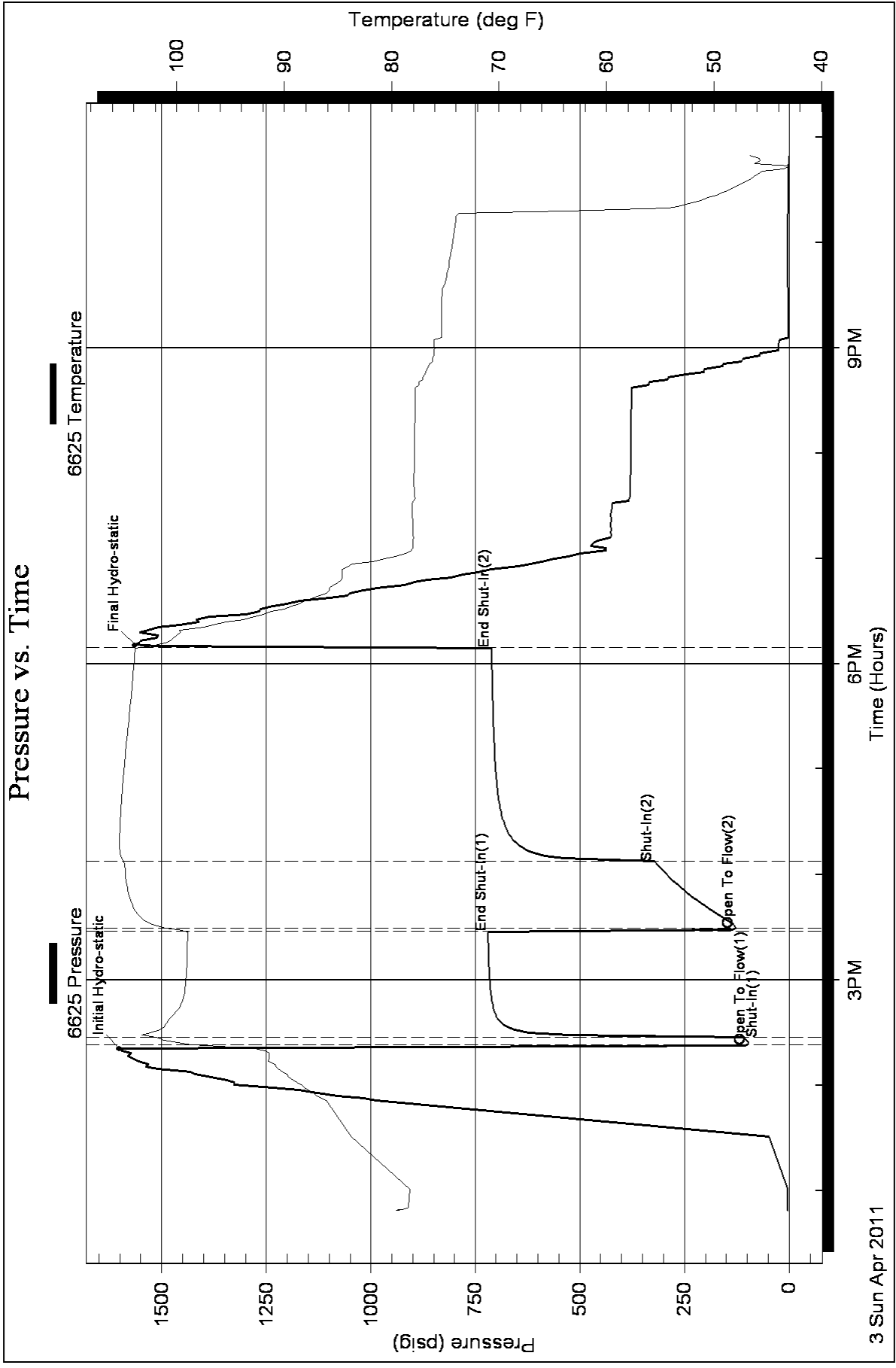
Num Gas Bombs: 0

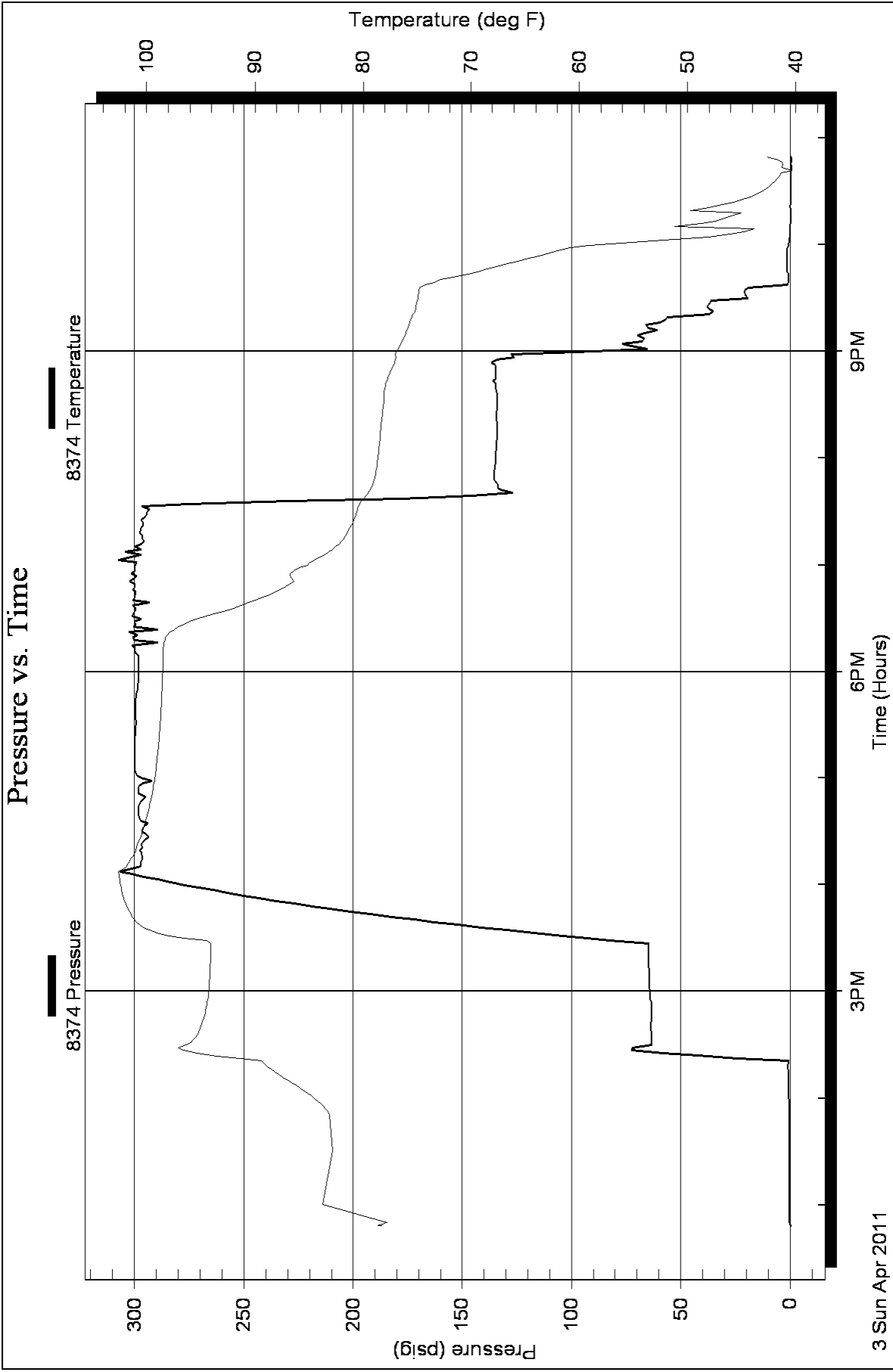
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Samuel Gary And Associates**

1515 Wynkoop Ste #700
Denver, CO 80202

ATTN: Neal Sharp

26/16S/16W-Rush

Yarmer et al #1-26

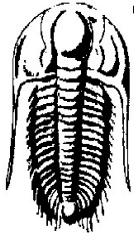
Start Date: 2011.04.04 @ 09:01:52

End Date: 2011.04.04 @ 16:21:22

Job Ticket #: 42788 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.04.04 @ 17:59:25 Page 1



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42788

DST#: 3

ATTN: Neal Sharp

Test Start: 2011.04.04 @ 09:01:52

GENERAL INFORMATION:

Formation: **Lansing 'F'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:39:22

Time Test Ended: 16:21:22

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 42

Interval: 3317.00 ft (KB) To 3336.00 ft (KB) (TVD)

Reference Elevations: 1975.00 ft (KB)

Total Depth: 3336.00 ft (KB) (TVD)

1965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6625 Inside

Press@RunDepth: 192.55 psig @ 3320.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.04

End Date:

2011.04.04

Last Calib.:

2011.04.04

Start Time:

09:01:52

End Time:

16:21:22

Time On Btm:

2011.04.04 @ 10:38:52

Time Off Btm:

2011.04.04 @ 14:29:22

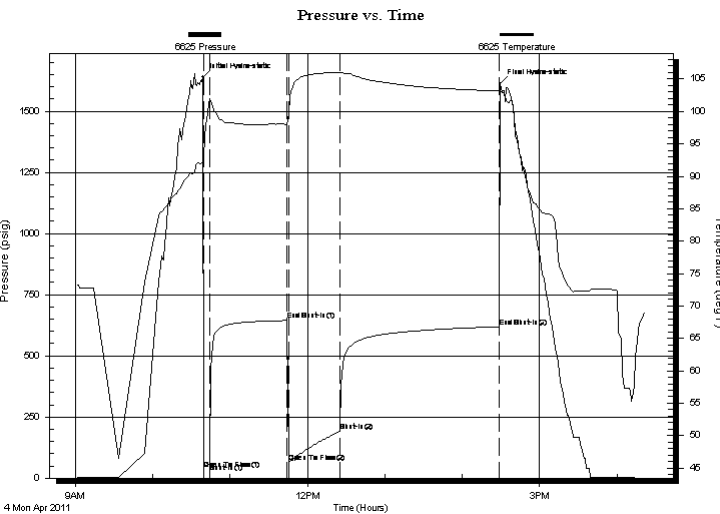
TEST COMMENT: IF-Fair building blow . Built to 8 inches.

ISI-No Return.

FF-Strong building blow . BOB in 8 minutes 20 seconds.

FSI-Return @ 1 minute 45 seconds. Died @ 6 minutes.

Time intervals- 5-60-40-12



PRESSURE SUMMARY

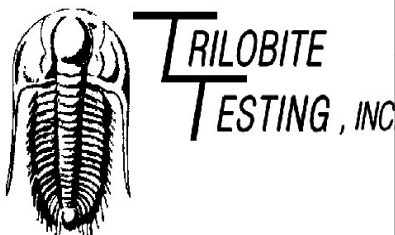
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.90	92.04	Initial Hydro-static
1	37.13	92.64	Open To Flow (1)
6	60.31	101.91	Shut-In(1)
66	644.57	97.96	End Shut-In(1)
67	64.82	99.59	Open To Flow (2)
107	192.55	105.98	Shut-In(2)
230	618.81	103.16	End Shut-In(2)
231	1614.03	103.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	60%Water/40%Mud	0.87
295.00	90%Water/10%Mud	4.14

Gas Rates

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



DRILL STEM TEST REPORT

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42788 **DST#: 3**

ATTN: Neal Sharp

Test Start: 2011.04.04 @ 09:01:52

GENERAL INFORMATION:

Formation: **Lansing 'F'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:39:22

Time Test Ended: 16:21:22

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 42

Interval: 3317.00 ft (KB) To 3336.00 ft (KB) (TVD)

Total Depth: 3336.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1975.00 ft (KB)

1965.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8700 Outside

Press@RunDepth: psig @ 3320.00 ft (KB)

Start Date: 2011.04.04

End Date: 2011.04.04

Start Time: 09:02:05

End Time: 16:19:35

Capacity: 8000.00 psig

Last Calib.: 2011.04.04

Time On Btm:

Time Off Btm:

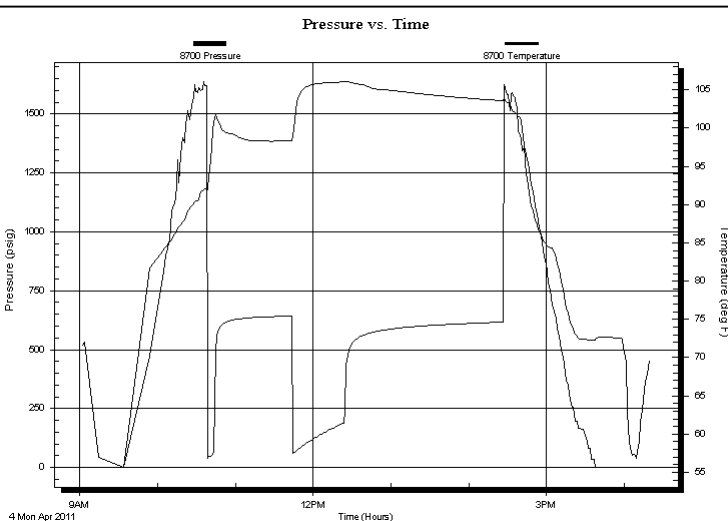
TEST COMMENT: IF-Fair building blow . Built to 8 inches.

ISI-No Return.

FF-Strong building blow . BOB in 8 minutes 20 seconds.

FSI-Return @ 1 minute 45 seconds. Died @ 6 minutes.

Time intervals- 5-60-40-12



PRESSURE SUMMARY

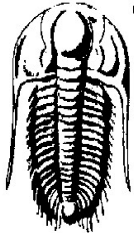
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
62.00	60%Water/40%Mud	0.87
295.00	90%Water/10%Mud	4.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42788

DST#: 3

ATTN: Neal Sharp

Test Start: 2011.04.04 @ 09:01:52

Tool Information

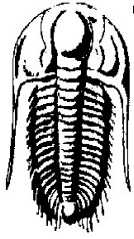
Drill Pipe:	Length: 3320.00 ft	Diameter: 3.80 inches	Volume: 46.57 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 46.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3317.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	48.00 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	8374	Fluid	3288.00	
Change Over Sub	1.00			3289.00	
Shut In Tool	5.00			3294.00	
Sampler	2.00			3296.00	
Hydraulic tool	5.00			3301.00	
Jars	5.00			3306.00	
Safety Joint	2.00			3308.00	
Packer	5.00			3313.00	29.00 Bottom Of Top Packer
Packer	4.00			3317.00	
Stubb	1.00			3318.00	
Perforations	2.00			3320.00	
Recorder	0.00	6625	Inside	3320.00	
Recorder	0.00	8700	Outside	3320.00	
Perforations	13.00			3333.00	
Bullnose	3.00			3336.00	19.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42788

DST#: 3

ATTN: Neal Sharp

Test Start: 2011.04.04 @ 09:01:52

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: 55000 ppm	
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: 0.15 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	60%Water/40%Mud	0.870
295.00	90%Water/10%Mud	4.138

Total Length: 357.00 ft Total Volume: 5.008 bbl

Num Fluid Samples: 0

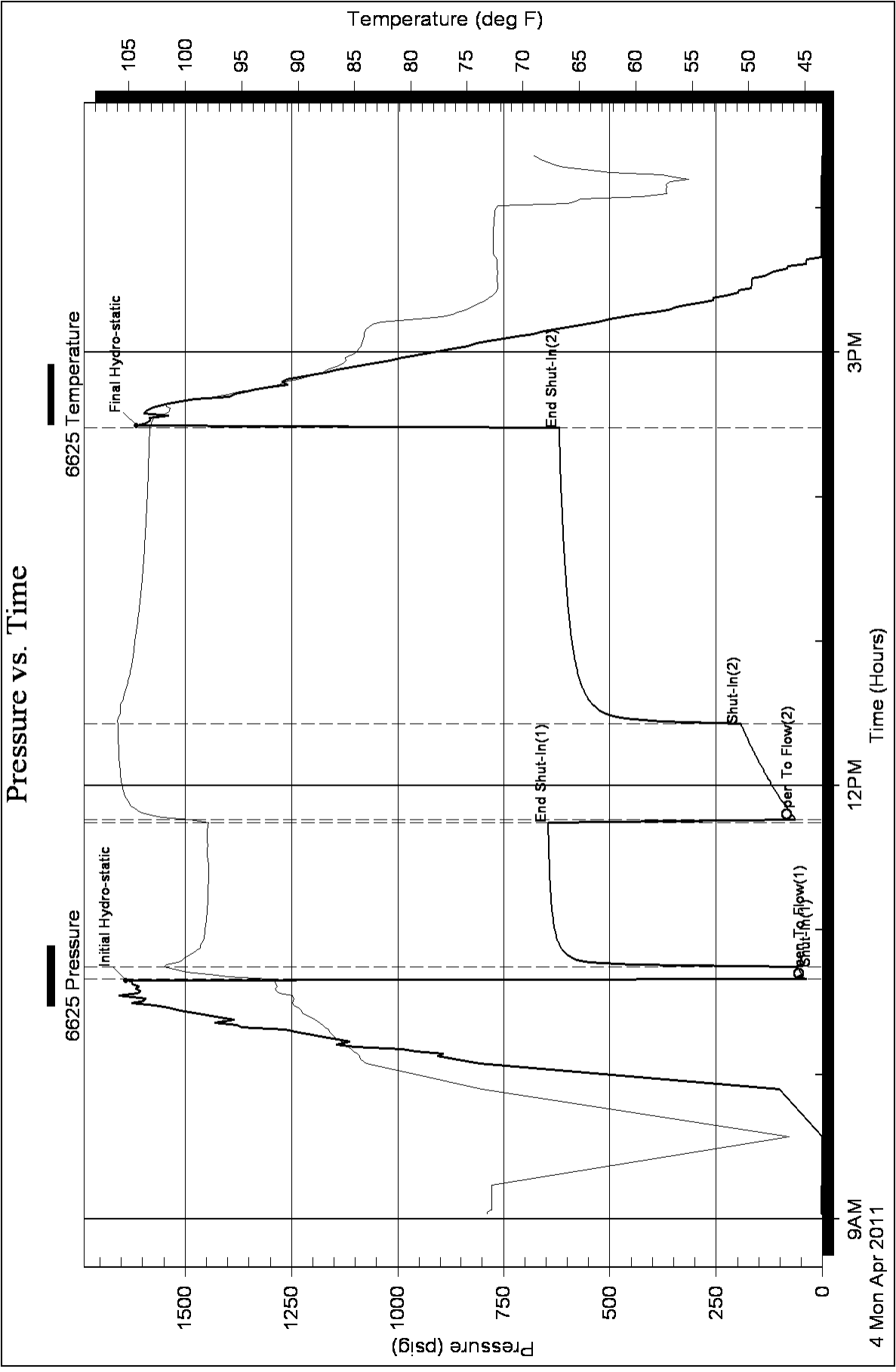
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



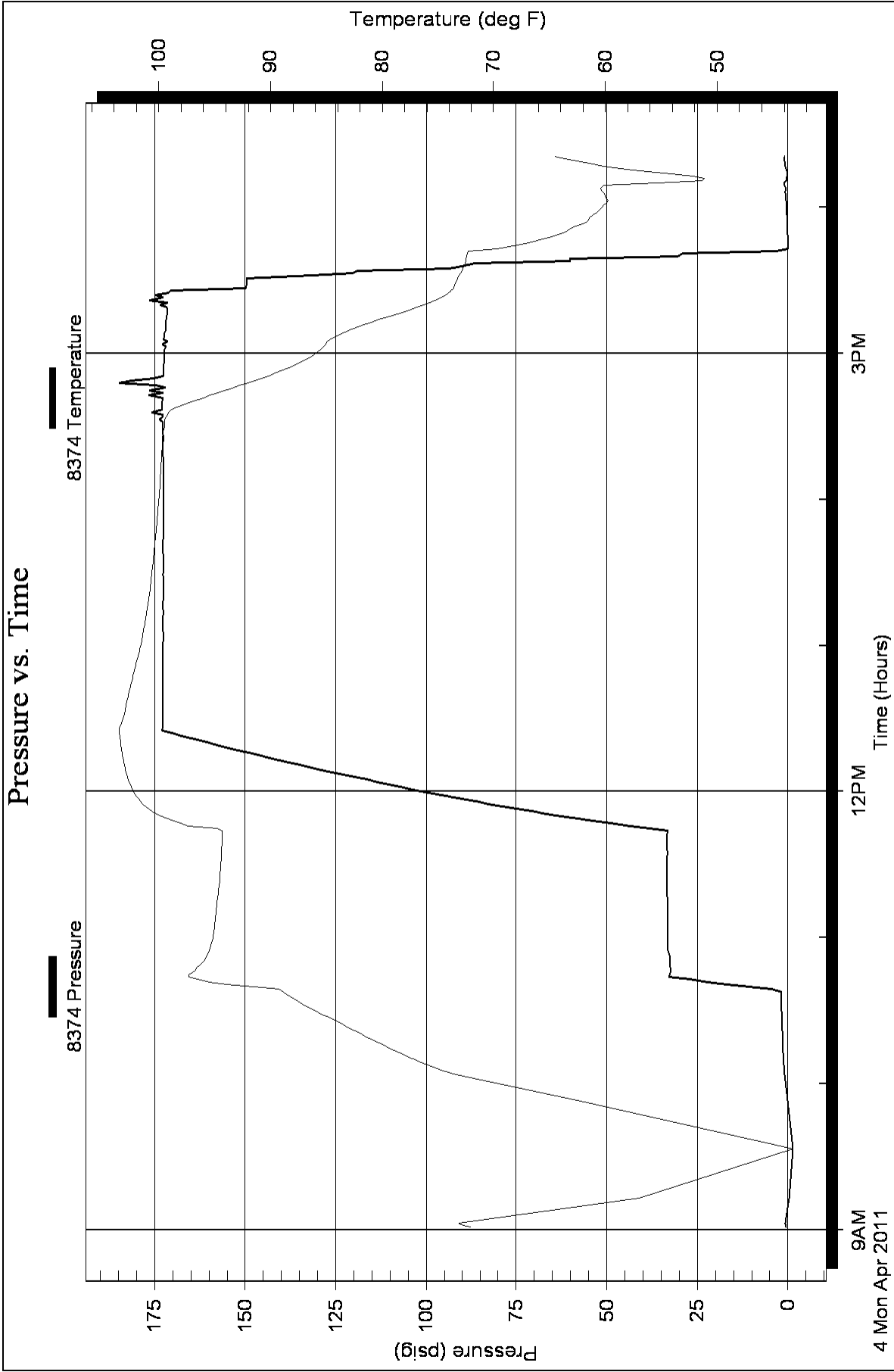
Serial #: 8374

Fluid

Samuel Gary And Associates

26/16S/16W-Rush

DST Test Number: 3



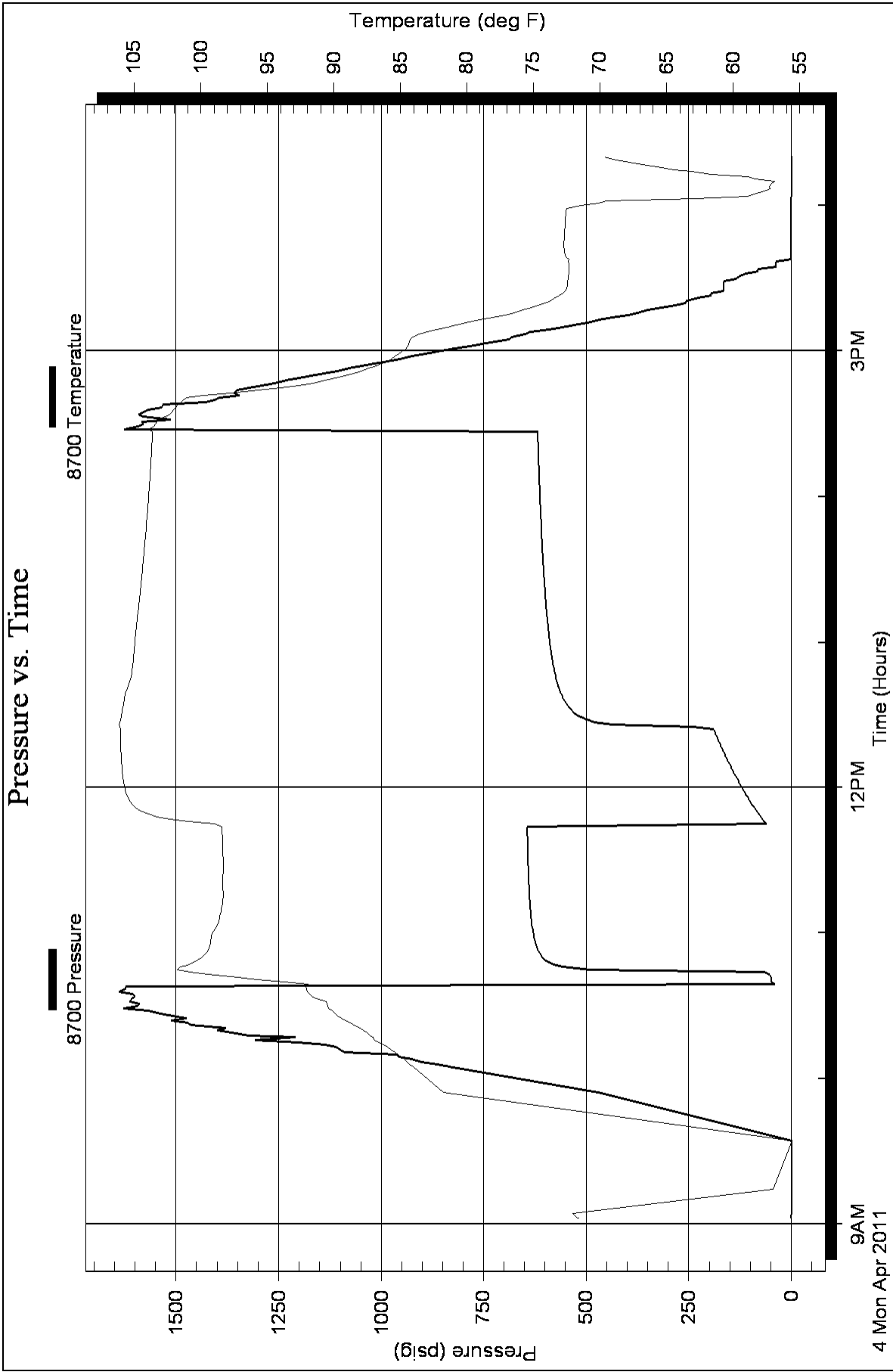
Serial #: 8700

Outside

Samuel Gary And Associates

26/16S/16W-Rush

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary And Associates**

1515 Wynkoop Ste #700
Denver, CO 80202

ATTN: Neal Sharp

26/16S/16W-Rush

Yarmer et al #1-26

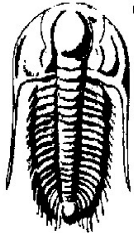
Start Date: 2011.04.05 @ 04:47:21

End Date: 2011.04.05 @ 12:37:51

Job Ticket #: 42789 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.04.05 @ 13:01:34 Page 1



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42789

DST#: 4

ATTN: Neal Sharp

Test Start: 2011.04.05 @ 04:47:21

GENERAL INFORMATION:

Formation: **Lansing 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:30:51

Time Test Ended: 12:37:51

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 42

Interval: 3395.00 ft (KB) To 3413.00 ft (KB) (TVD)

Reference Elevations: 1975.00 ft (KB)

Total Depth: 3413.00 ft (KB) (TVD)

1965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6625 Inside

Press@RunDepth: 85.53 psig @ 3398.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.05 End Date: 2011.04.05

Last Calib.: 2011.04.05

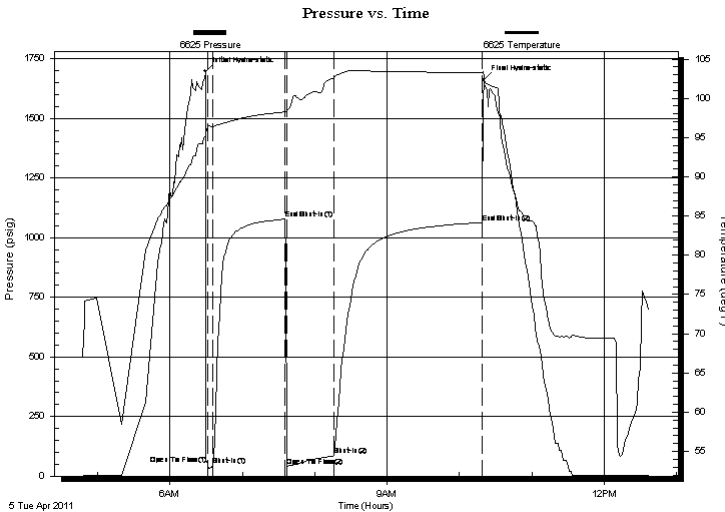
Start Time: 04:47:21 End Time: 12:37:51

Time On Btm: 2011.04.05 @ 06:29:21

Time Off Btm: 2011.04.05 @ 10:20:21

TEST COMMENT: IF-Strong building blow . BOB in 1 minute 30 seconds.
IS- Return @ 3 minutes. Died @ 4 minutes 20 seconds.
FF-Strong building blow . BOB in 20 seconds.
FSI-Return in 30 seconds. Built to 8 inches.

PRESSURE SUMMARY



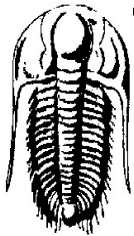
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1697.37	95.22	Initial Hydro-static
2	49.56	96.36	Open To Flow (1)
6	43.45	96.41	Shut-In(1)
66	1077.43	98.26	End Shut-In(1)
68	39.28	98.39	Open To Flow (2)
107	85.53	102.63	Shut-In(2)
230	1063.23	103.23	End Shut-In(2)
231	1661.52	102.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	70%Oil/30%Gas	2.60
0.00	3136' G.I.P.	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42789

DST#: 4

ATTN: Neal Sharp

Test Start: 2011.04.05 @ 04:47:21

GENERAL INFORMATION:

Formation: **Lansing 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:30:51

Time Test Ended: 12:37:51

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 42

Interval: 3395.00 ft (KB) To 3413.00 ft (KB) (TVD)

Reference Elevations: 1975.00 ft (KB)

Total Depth: 3413.00 ft (KB) (TVD)

1965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8374 Fluid

Press@RunDepth: psig @ 3366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.05 End Date: 2011.04.05

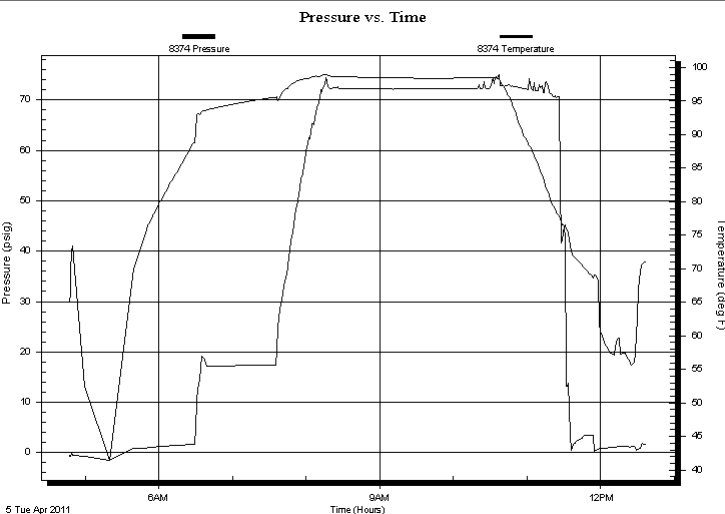
Last Calib.: 2011.04.05

Start Time: 04:47:27 End Time: 12:37:27

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Strong building blow . BOB in 1 minute 30 seconds.
IS- Return @ 3 minutes. Died @ 4 minutes 20 seconds.
FF-Strong building blow . BOB in 20 seconds.
FSI-Return in 30 seconds. Built to 8 inches.



PRESSURE SUMMARY

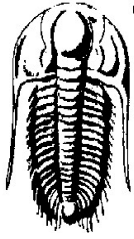
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
185.00	70%Oil/30%Gas	2.60
0.00	3136' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42789

DST#: 4

ATTN: Neal Sharp

Test Start: 2011.04.05 @ 04:47:21

Tool Information

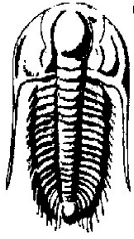
Drill Pipe:	Length: 3384.00 ft	Diameter: 3.80 inches	Volume: 47.47 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 2000.00 lb
			<u>Total Volume: 47.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3395.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	47.00 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	8374	Fluid	3366.00	
Change Over Sub	1.00			3367.00	
Shut In Tool	5.00			3372.00	
Sampler	2.00			3374.00	
Hydraulic tool	5.00			3379.00	
Jars	5.00			3384.00	
Safety Joint	2.00			3386.00	
Packer	5.00			3391.00	29.00 Bottom Of Top Packer
Packer	4.00			3395.00	
Stubb	1.00			3396.00	
Perforations	2.00			3398.00	
Recorder	0.00	6625	Inside	3398.00	
Recorder	0.00	8700	Outside	3398.00	
Perforations	12.00			3410.00	
Bullnose	3.00			3413.00	18.00 Bottom Packers & Anchor

Total Tool Length: 47.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42789

DST#: 4

ATTN: Neal Sharp

Test Start: 2011.04.05 @ 04:47:21

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	70%Oil/30%Gas	2.595
0.00	3136' G.I.P.	0.000

Total Length: 185.00 ft Total Volume: 2.595 bbl

Num Fluid Samples: 0

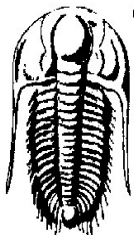
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42789

DST#: 4

ATTN: Neal Sharp

Test Start: 2011.04.05 @ 04:47:21

Gas Rates Information

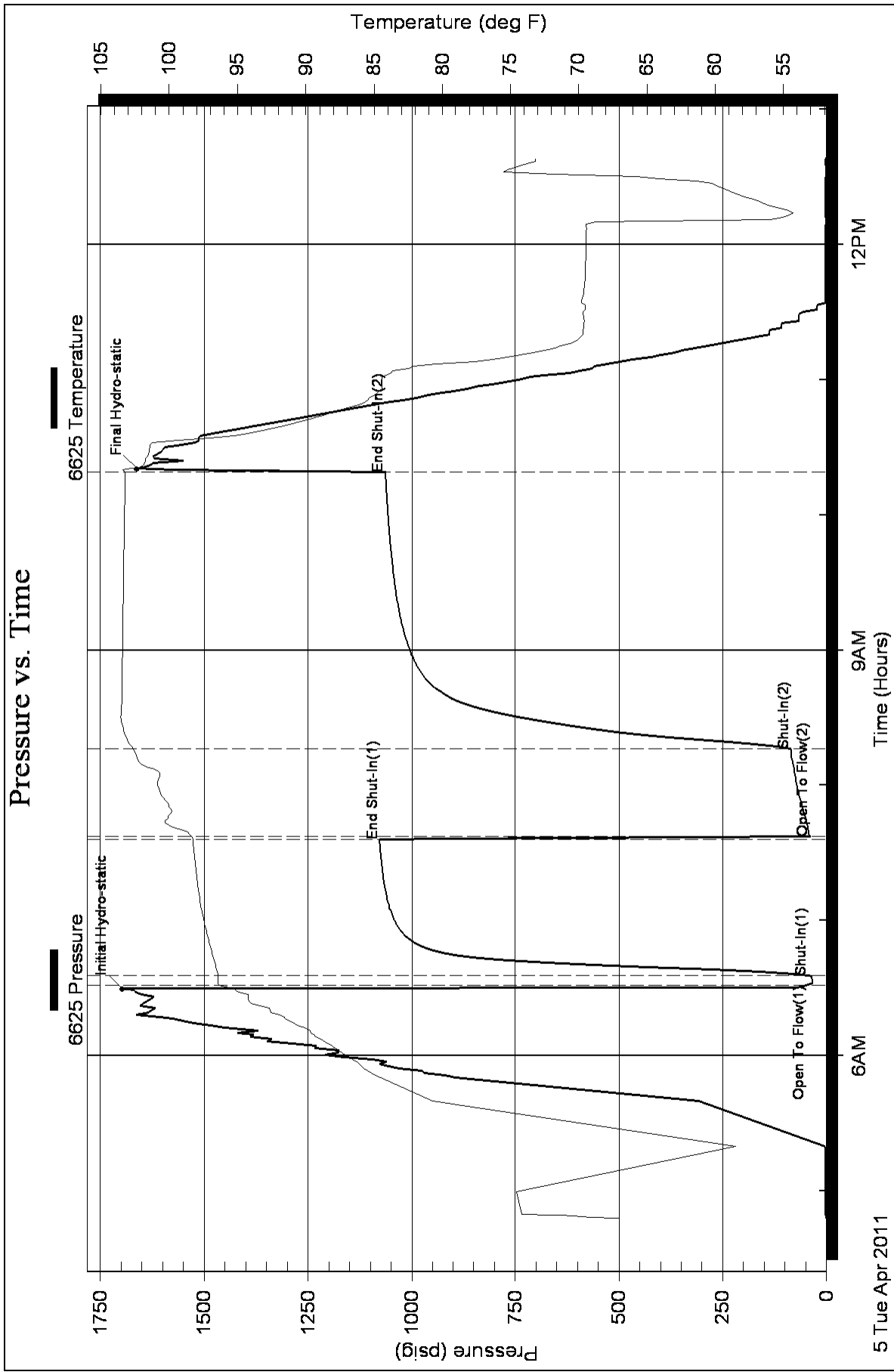
Temperature: 59 deg C

Relative Density: 0.65

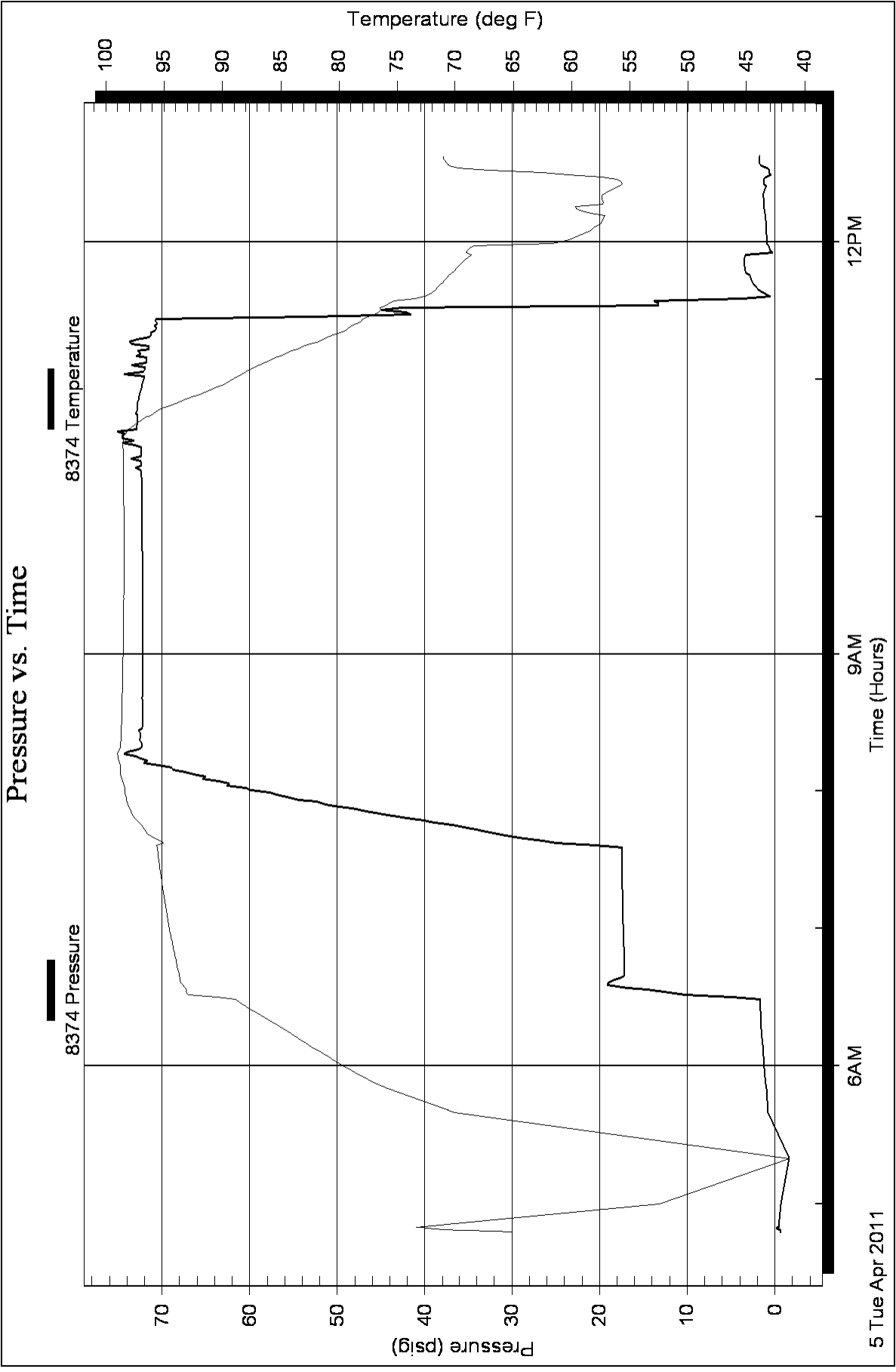
Z Factor: 0.8

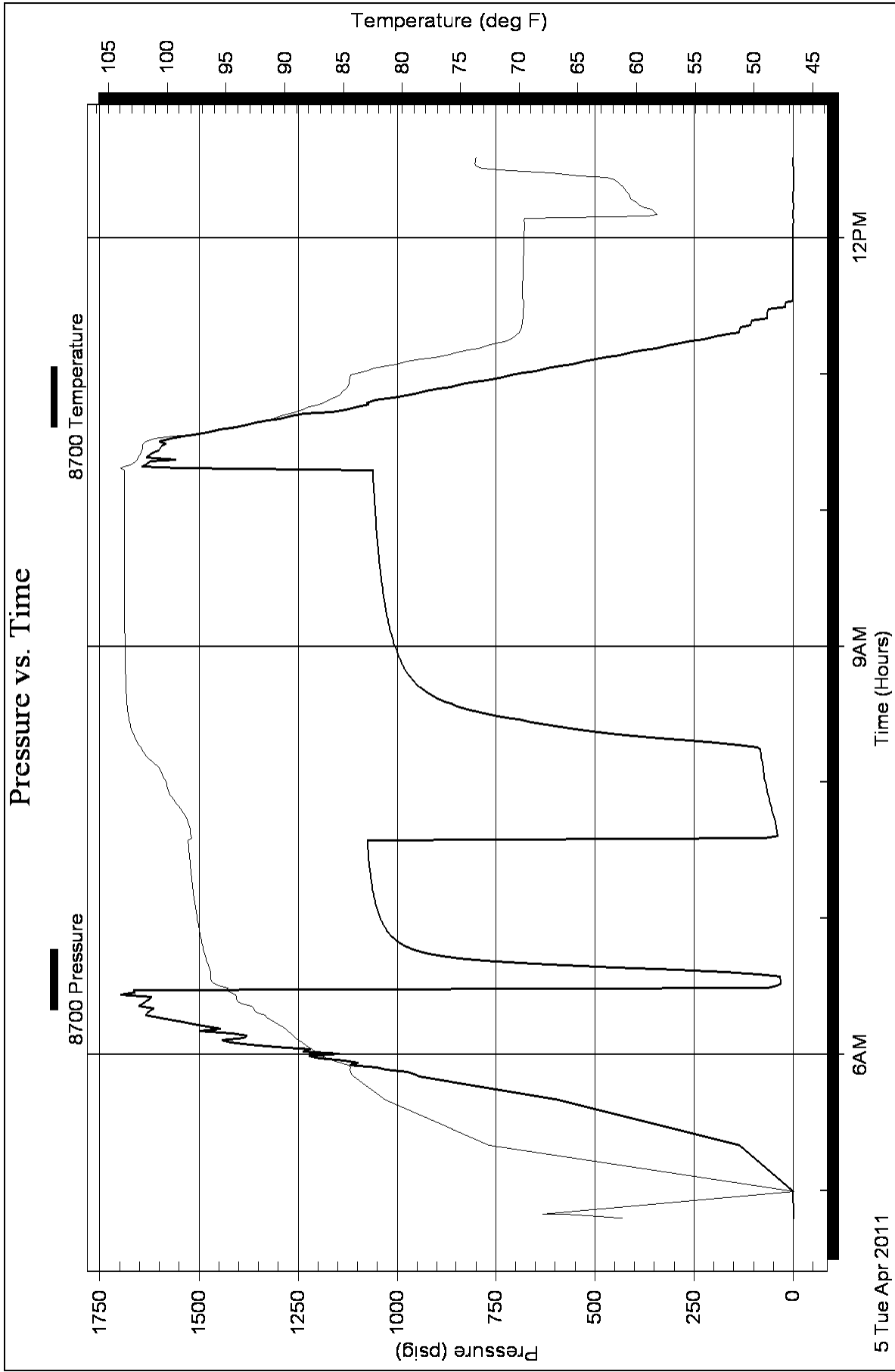
Gas Rates Table

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



Pressure vs. Time







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42790

DST#: 5

ATTN: Neal Sharp

Test Start: 2011.04.05 @ 20:32:42

GENERAL INFORMATION:

Formation: **LKC "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:49:42

Time Test Ended: 04:26:12

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 42

Interval: 3416.00 ft (KB) To 3448.00 ft (KB) (TVD)

Reference Elevations: 1975.00 ft (KB)

Total Depth: 3448.00 ft (KB) (TVD)

1965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6625 Inside

Press @ Run Depth: 138.92 psig @ 3419.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.05

End Date:

2011.04.06

Last Calib.:

2011.04.06

Start Time: 20:32:47

End Time:

04:26:11

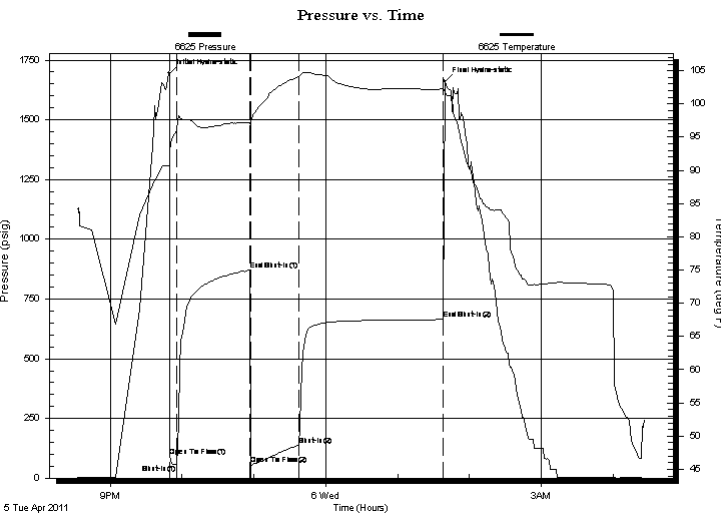
Time On Btm:

2011.04.05 @ 21:49:12

Time Off Btm:

2011.04.06 @ 01:39:12

TEST COMMENT: IF-Strong building blow . BOB in 30 seconds.
ISI-Return @ 45 seconds. Built to 3 inches.
FF-Strong building blow . BOB in 20 seconds. GTS in 36 minutes. TSTM
FSI-Return @ 15 seconds. BOB in 33 minute



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1694.72	90.71	Initial Hydro-static
1	90.46	92.77	Open To Flow (1)
6	57.15	96.13	Shut-In(1)
67	870.73	97.21	End Shut-In(1)
69	57.60	97.14	Open To Flow (2)
108	138.92	104.04	Shut-In(2)
229	664.14	102.23	End Shut-In(2)
230	1661.96	101.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	40%Mud/30%Oil/30%Gas	0.87
278.00	70%Oil/30%Gas	3.90
0.00	3074' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary And Associates

Yarmer et al #1-26

1515 Wynkoop Ste #700
Denver, CO 80202

26/16S/16W-Rush

Job Ticket: 42790

DST#: 5

ATTN: Neal Sharp

Test Start: 2011.04.05 @ 20:32:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	40%Mud/30%Oil/30%Gas	0.870
278.00	70%Oil/30%Gas	3.900
0.00	3074' G.I.P.	0.000

Total Length: 340.00 ft

Total Volume: 4.770 bbl

Num Fluid Samples: 0

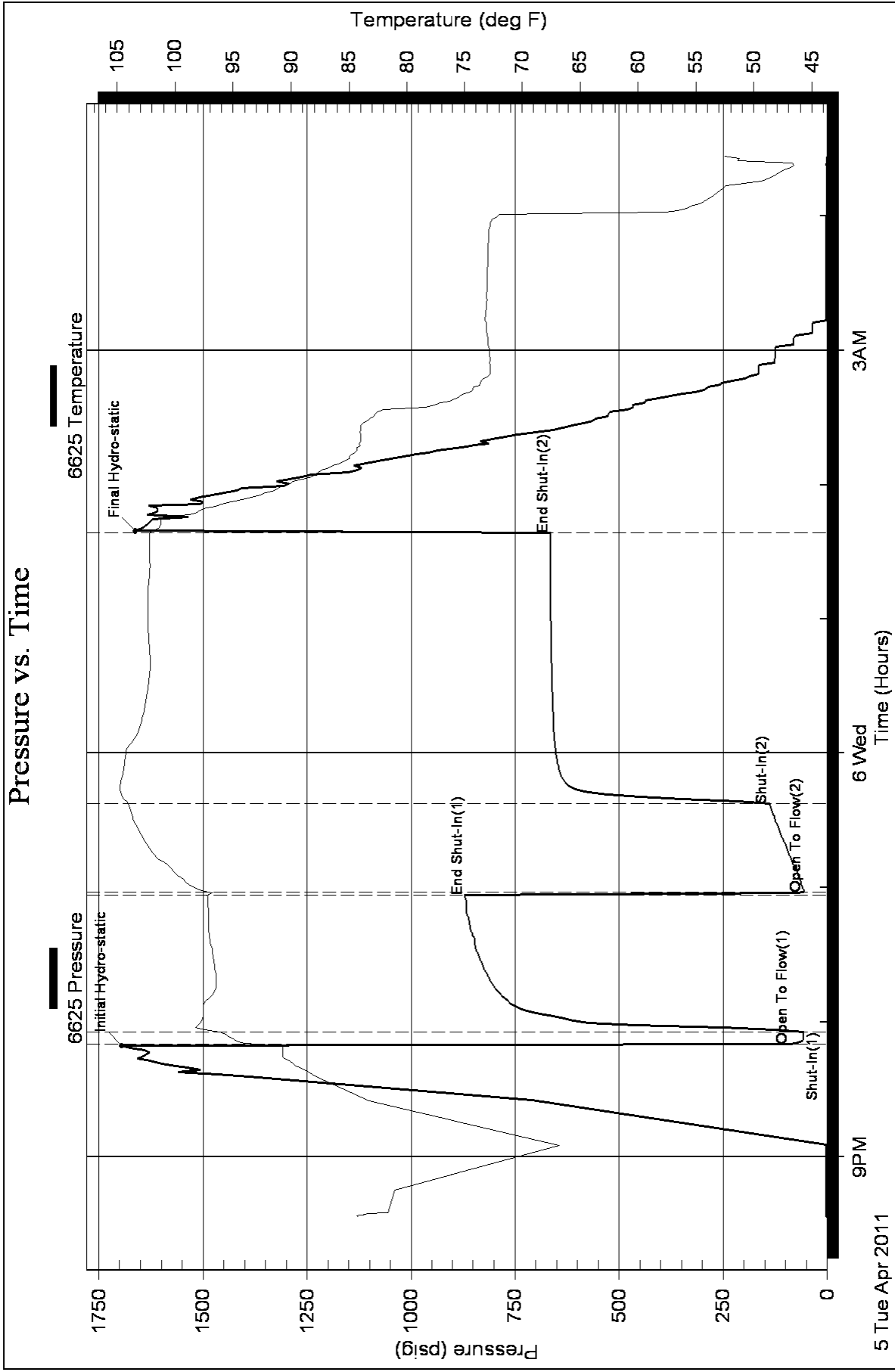
Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



Serial #: 8374

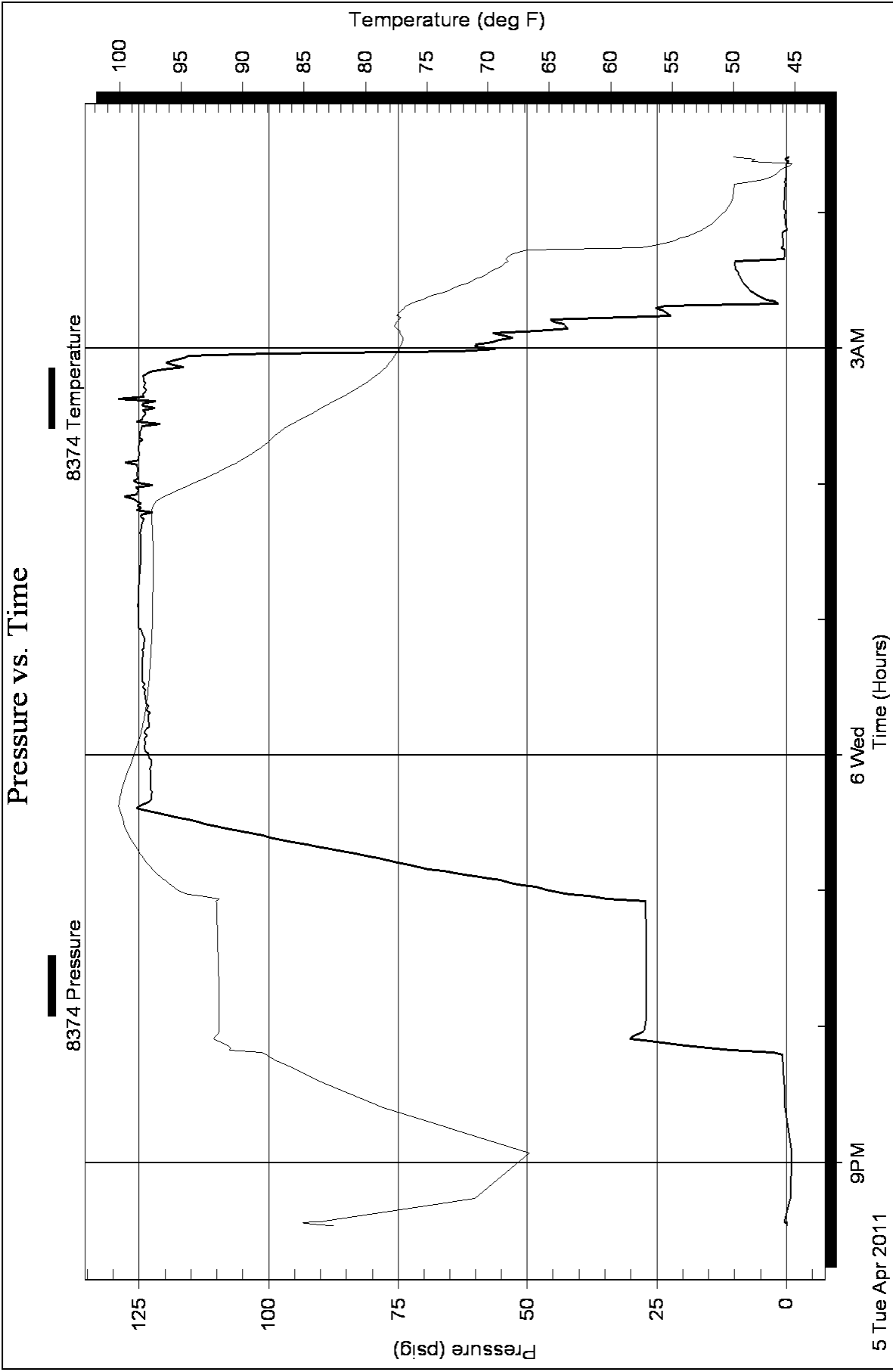
Fluid

Samuel Gary And Associates

26/16S/16W-Rush

DST Test Number: 5

Pressure vs. Time





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

Well Name: Yarmer Et Al 1-26
Location: SEC 26, 16S, 16W, Rush Co. , Kansas
License Number: 15-165-21917-0000
Spud Date: 03/30/2011
Surface Coordinates: 330" FNL & 2260' FWL
Region: Wildcat
Drilling Completed: 004/06/2011

Bottom Hole Coordinates:

Ground Elevation (ft): 1963' K.B. Elevation (ft): 1973'
Logged Interval (ft): 1750' To: 3650' Total Depth (ft): 3650'
Formation: Lansing, Arbuckle
Type of Drilling Fluid:

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

OPERATOR

Company: Samuel Gary Jr, & Assoc.
Address: 1515 Wykoop, Ste. # 700
Denver, Colo. 80202
Geo: Neal Sharp

GEOLOGIST

Name: Rodney Napier
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 620-639-4680

Circulating Report

START UNMANNED UNIT 03/31/11
START ONE MANNED UNIT 04/01/11
CFS 3191'
CFS/CTCH 3268'
TOH FOR SHORT TRIP CTCH 30 MIN
CFS/CTCH 3270'
DST#1 3196'-3270
CFS 3291'
DST#2 3276'-3291'
CTCH 3291' AFTER DST#2
CFS 3336'
DST#3 3317'-3336'
CTCH AFTER DST#3
CFS 3346'
CFS 3363'
CFS 3413'
DST#4 3395'-3413'
CTCH AFTER DST#4
CFS 3448'
CTCH AFTER DST#5
CFS 3527'
CFS 3560'
TD 3650' 6:30 PM 04/06/11
CFS/CTCH 1.5 HRS
TOH FOR LOGS

DST's Report

DST#1 3196'-3270' 74' ANCHOR
IF: STRONG BUILDING BLOW 1 MIN 40 SEC
ISI RTN AT 6 MIN BUILDING TO 5 1/2 INCHES
FF STRONG BLOW BOB 10 SEC GTS 13 MIN
FSI:RETURN 10 SEC BOB 42 MINS
RECOVERY 530' 158' MOG,186' GMO,186' GMO 2661' GIP
IH:1570,FIF:68,FFF:110,ISI 555,SIF:117,SFF:241,FSI:919, FH:1566 TIMES: 5,60,40,120

DST#2 3272'-3291' ANCHOR:19'
IF:STRONG BLOW BOB 15 SEC
ISI:RTN 15 SEC BOB IN 1.5 MIN GTS 13 MIN
FF:STRONG BUILDING BLOW BOB 15 SEC
FSI:RTN 15 SEC BOB 1.5 MIN
RECOVERY: 880' GASSY OIL 2375' GIP BHT 104 DEG GRAVITY 47
IH:1601,FIF:100,FFF:110,ISI:718,SIF:127,SFF:322,FSI:710,
FH:1564, TIMES:5,60,40,120

DST's Report

DST#3 ANCHOR: 19'

IF:FAIR BUILDING BLOW BUILT TO 8 INCES

ISI NO RTN

FF:STRONG BUILDING BLOW BOB 8 MIN

FSI:RTN @ 1 MIN 45 SEC DIED IN 6 MIN

RECOVERY 62' MUDDY WATER,295' MUDDY WATER TOTAL 357' BHT:103 CLORIDES 68 AND 82,000

IH:1639,FIF:37,FFF:60,ISI:645,SIF:65,SFF:193,FSI:619

FH:1614,TIMES 5,60,40,120

DST#4 3395'-3413' ANCHOR 18'

IF:STRONG BLOW BOB 1 MIN 30 SEC

ISI:RTN @ 3 MIN DIED IN 4 MIN 20 SEC

FF:STRONG BUILDING BLOW BOB 20 SEC

FSI:RTN 30 SEC BUILT TO 8 IN DIED TO 2 INCHES

RECOVERY 185' GASSY OIL BHT:103 DEG GRAVITY:37

IH:1697,FIF:50 ,FFF:43 ,ISI:1077,SIF:39,SFF:86,FSI:1063

FH:1662,TIMES 5,60,40,120

DST#5 3416'-3448' 32' ANCHOR

IF STRONG BUILDING BLOW BOB 30 SEC

ISI RTN 45 SEC BUILT TO 3 IN

FF STRONG BUILDING BLOW BOB 20 SEC GTS 36 MIN

FSI RTN 15 SEC BOB 33 MIN

RECOVERY 278' GASSY OIL,62' MUDDY GASSY OIL

TOTAL RECOVERY 340' 3074' GIP BHT 102 GRAVITY 38

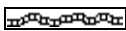
IH:1695,FIF:90,FFF:57,ISI:871,SIF:58,SFF:139,FSI:664,FH:1662

TIMES 5,60,40,120

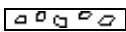
ROCK TYPES



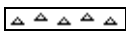
Anhy



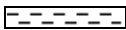
Bent



Brec



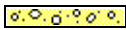
Cht



Clyst



Coal



Congl



Dol



Gyp



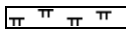
Igne



Lmst



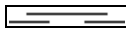
Meta



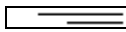
Mrlst



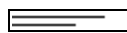
Salt



Shale



Shcol



Shgy



Sltst



Ss



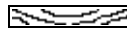
Till



Carb sh



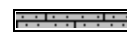
Dol



Dtd



Gry sh



Sandylms



Shale



Sltstn



Shlyslts



Sltys



Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr



- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Silty



- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold



- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang



- Angular

OIL SHOWS

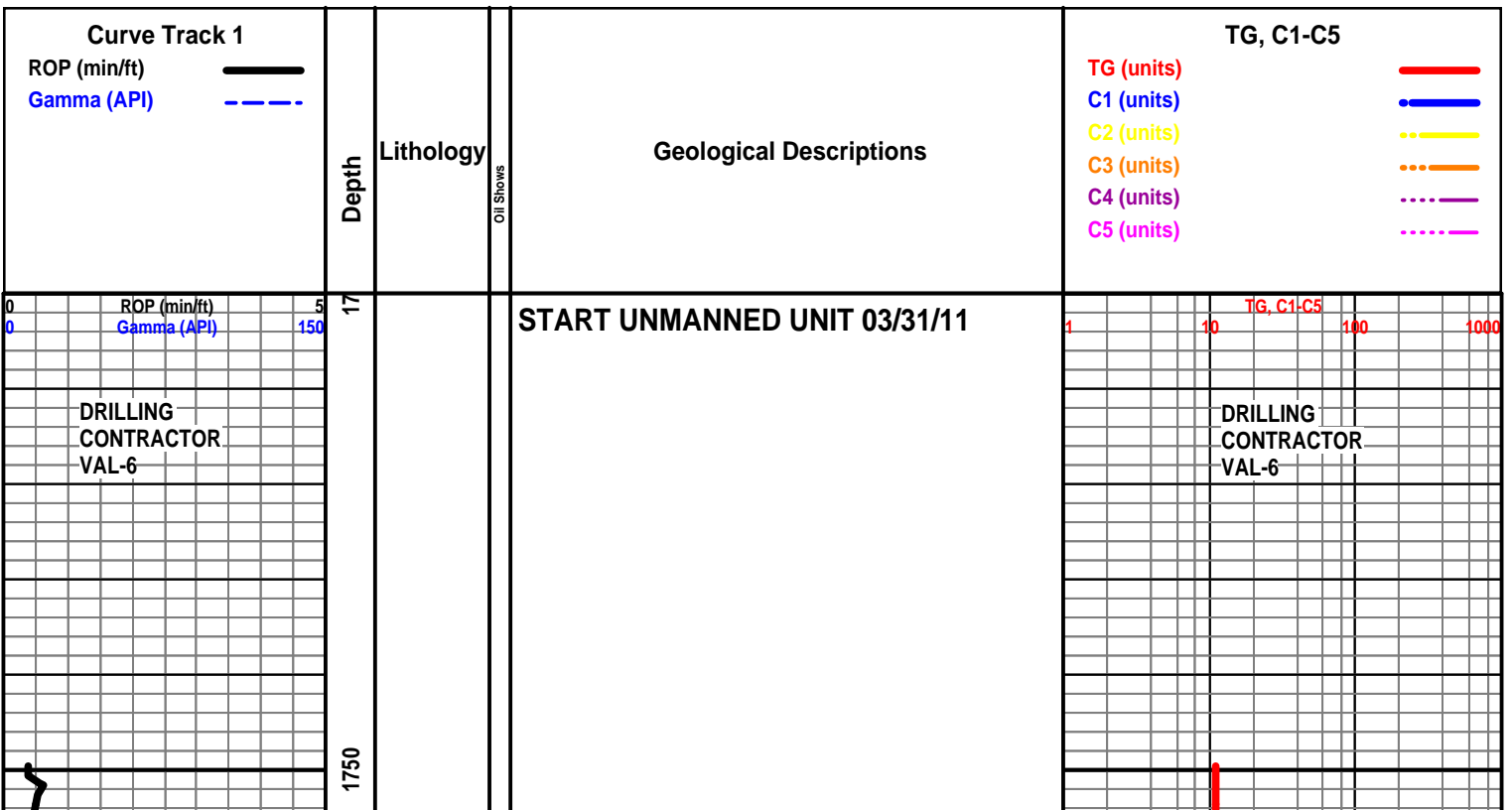
- Even
- Spotted
- Ques
- Dead
- Gas show

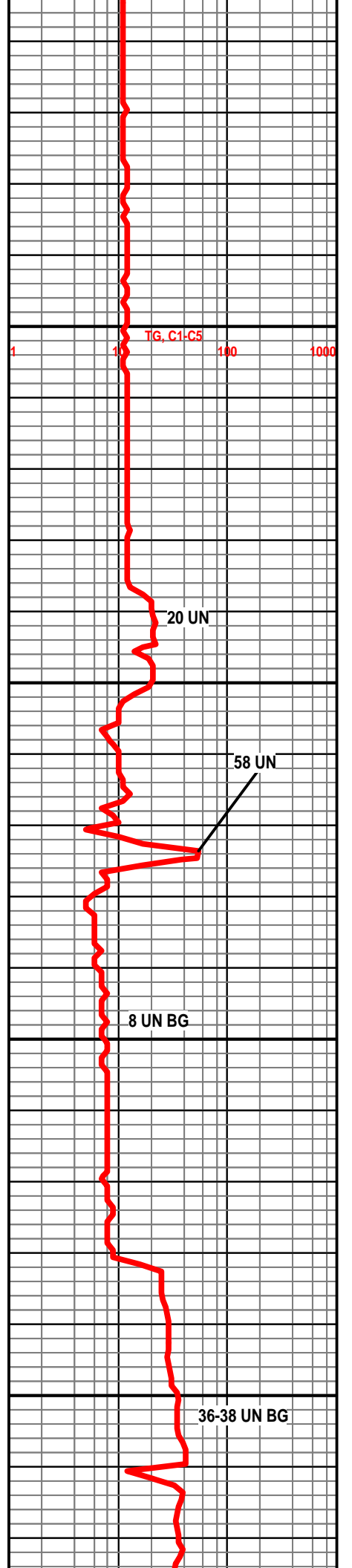
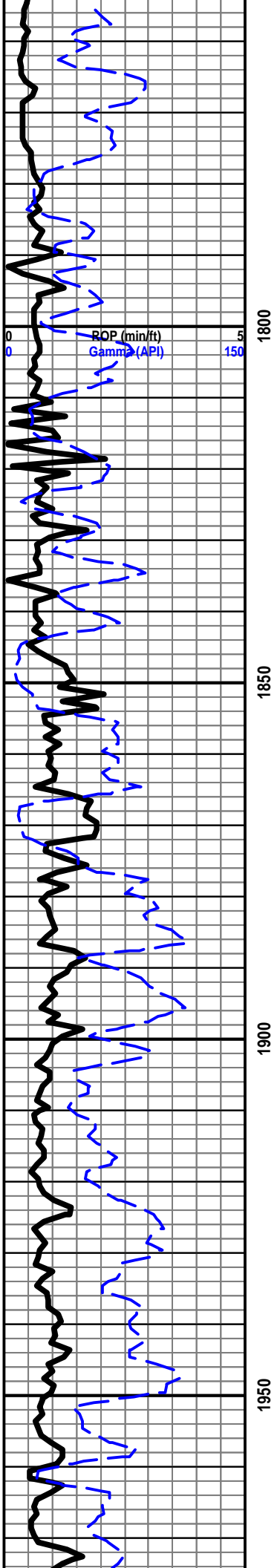
INTERVALS

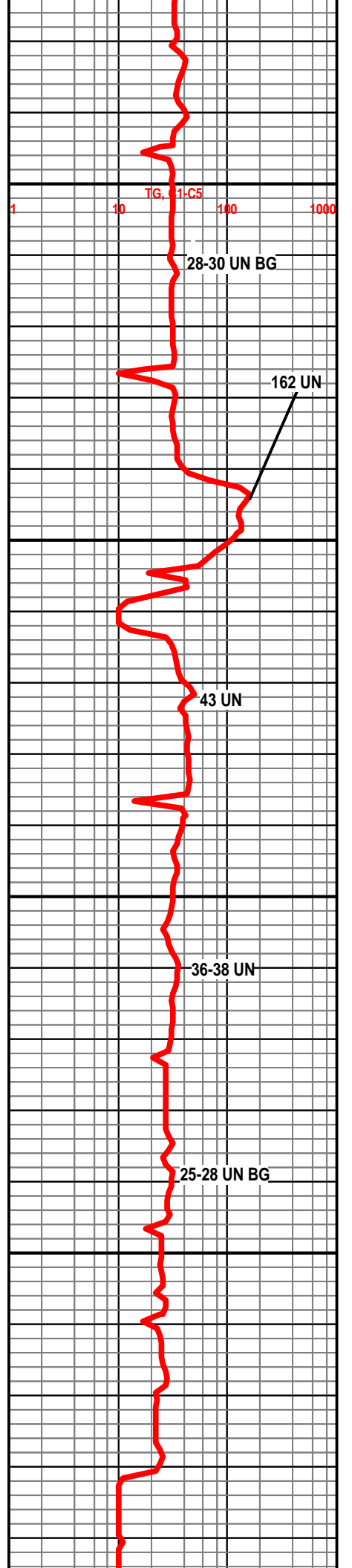
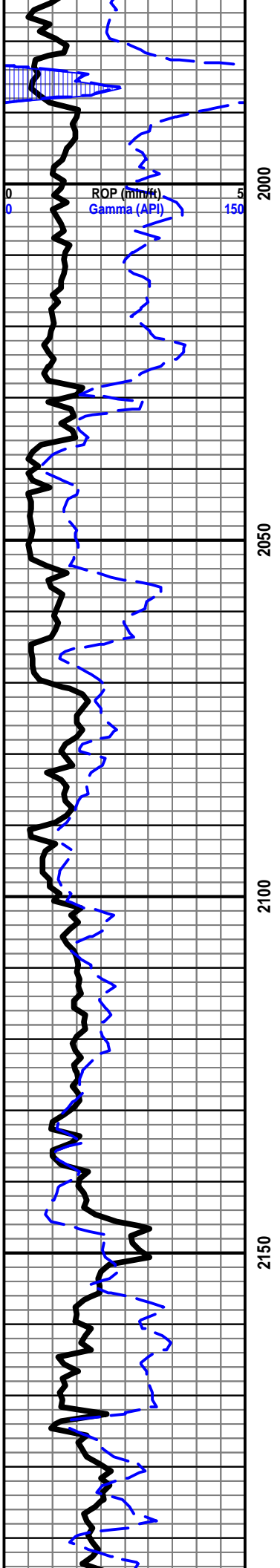
- Core
- Dst
- Dst

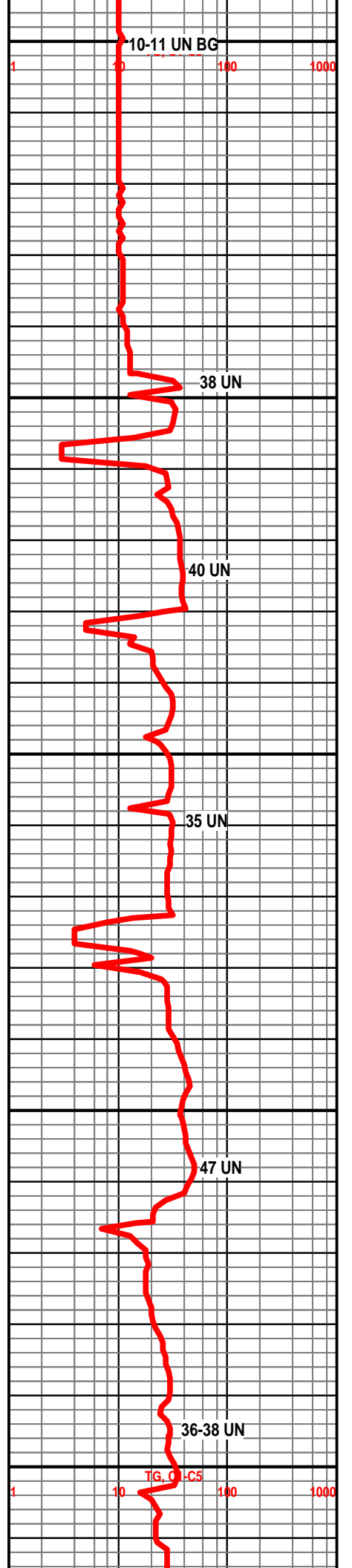
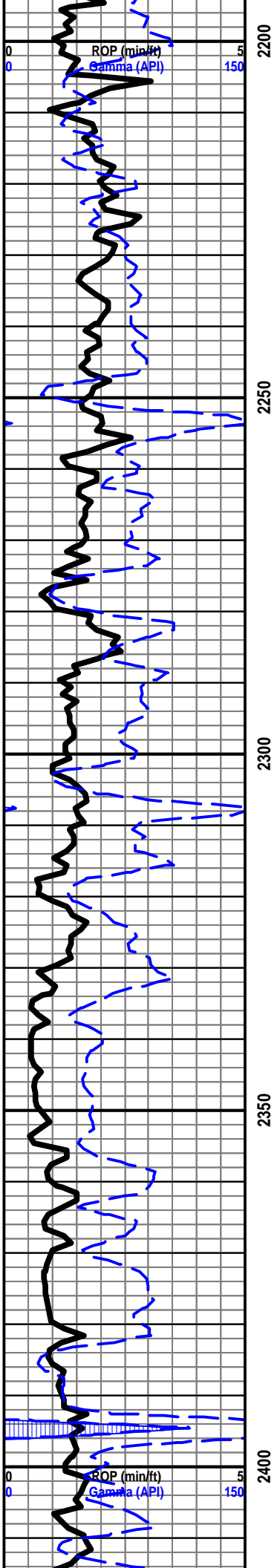
EVENTS

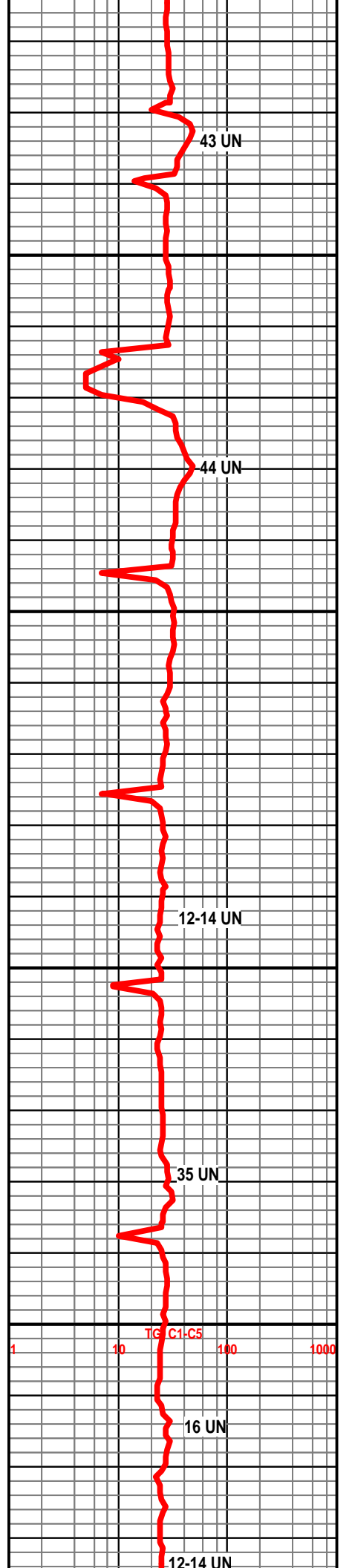
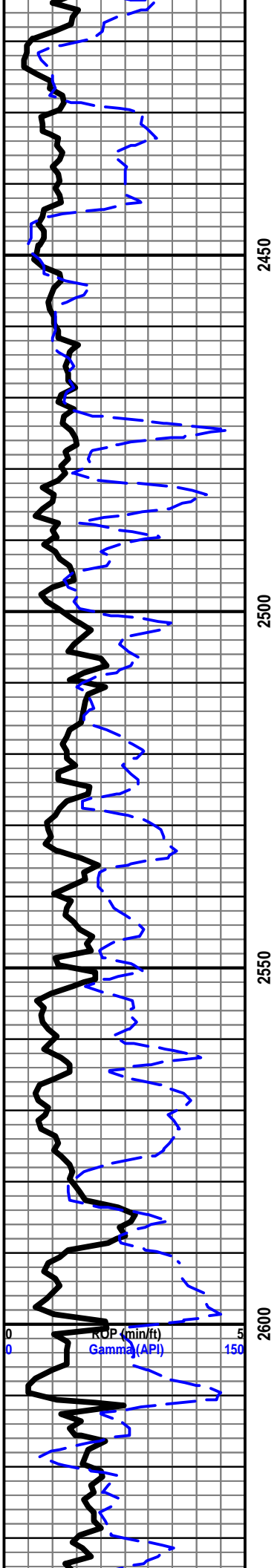
- Rft
- Sidewall

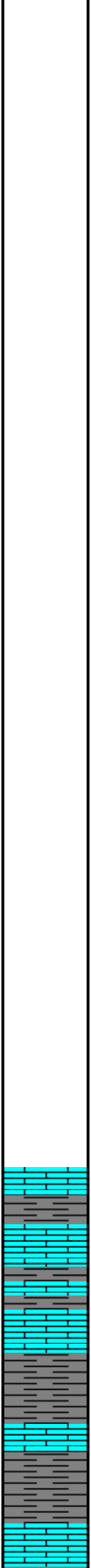
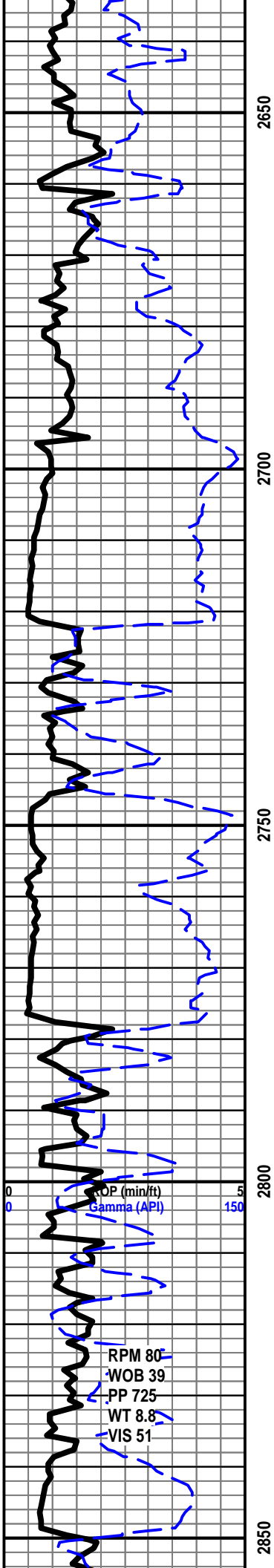












BASE ROOT SHALE 2722' -749'

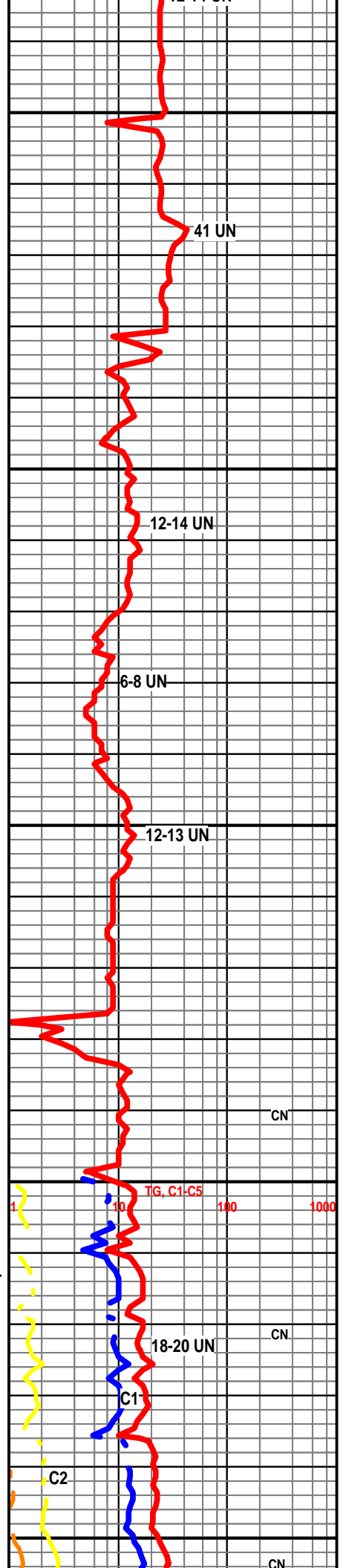
START ONE MANNED UNIT 04/01/11

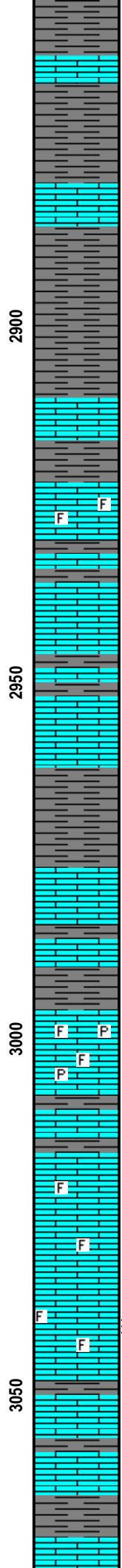
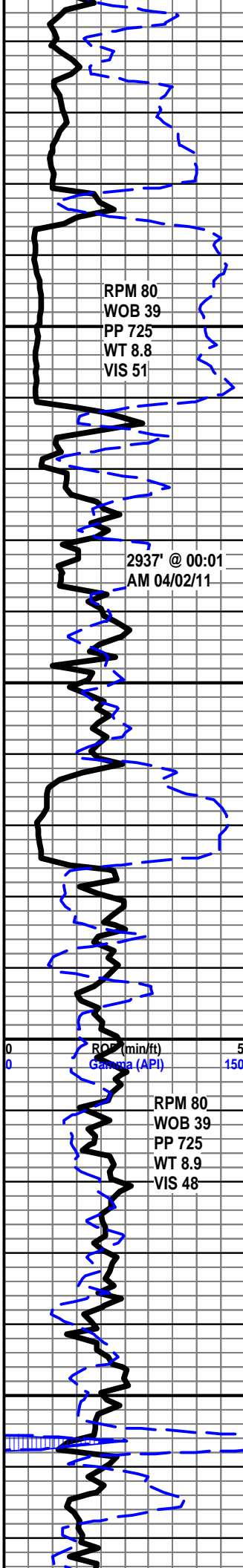
LS GRY TN BUFF HD DN VFN TO FN XLN MTX SUCRO
TXT TR IMBD SH TO DISS GRY SH NO FLO TR POSS TT
TO PR INTER XLN POR NO CUT NO VIS SHOW

SH DK GRY SMOOTH HD BRITT TO LMY

SH GRY LT GRY SFT GUMMY THRU

LS DK GRY TO GRY HD DN TT CRYPTO TO VVFN XLN
MTX NO FLO NO VIS POR NO VIS SHOW





SH GRY DK BRN SLTLY FRM BLKY TO SFT SPLNTY IP

LS GRY DK TN TO TN HD DN TT VVFN XLN MTX DISS
 GRY SH NO FLO NO VIS POR NO VIS SHOW

SH LT GRY SFT GUMMY SITLY THRU

HOWARD 2911' -938'

LS GRY DK TN TO TN BUFF HD DN TT CRYPTO TO VVFN
 XLN MTX NO FLO NO VIS POR NO VIS SHOW

LS GRY TN TO BUFF HD DN BRITT VFN TO FN XLN MTX
 TR IMBD FOSS IP NO FLO NO VIS POR NO VIS SHOW

LS GRY DK TN TO TN BUFF HD DN TT CRYPTO TO VVFN
 XLN MTX NO FLO NO VIS POR NO VIS SHOW

LS DK TN TO TN CRM BUFF HD FRM BRITT VFN TO FN
 XLN MTX TR IMBD QRTZ XLS IP DISS GRY SH IP SCATT
 IMBD FOSS IP SUB-CHLKY IP SCATT LT YLW FLO IP TO
 NO FLO TR POSS INTER XLN TO NO VIS POR NO CUT NO
 VIS SHOW

SEVERY 2961' -988'

SH GRY SFT SILTY THRU

TOPEKA 2976' -1003'

LS GRY LT GRY TN MOTT HD DN VFN TO FN XLN MTX
 IMBD FOSS SCATT LT YLW FLO NO VIS POR NO CUT NO
 VIS SHOW

SH LT GRY SMOOTH BRITT TO LMY

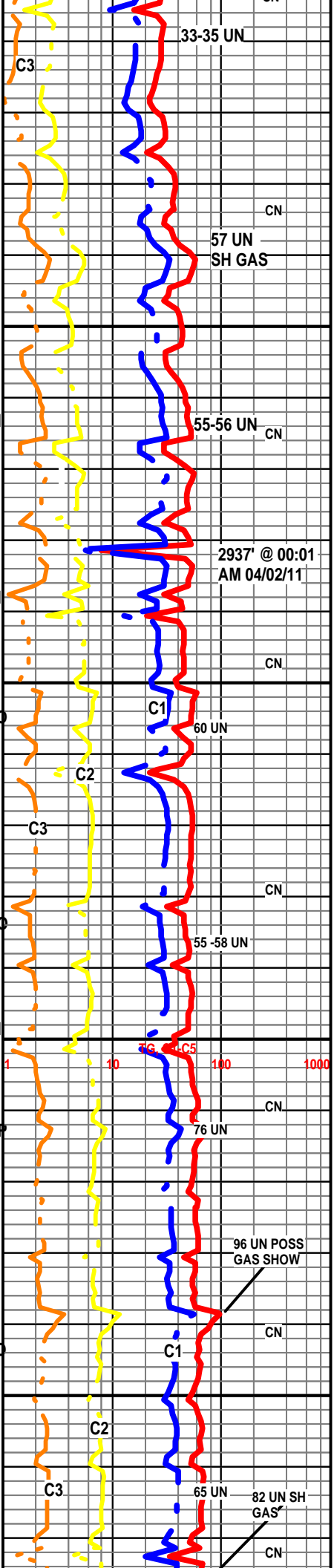
LS GRY TN LT TN MOTT HD DN BRITT CRYPTO TO VVFN
 XLN MTX TR IMBD FOSS TR LMNTD PYR IP NO FLO NO
 VIS POR NO VIS SHOW

LS LT TN CRM BUFF HD TO FRM FN XLN MTX RE-XLN
 MTX SUCRO TXT SCATT LT YLW FLO TR TT INTER XLN
 POR TO TR MICRO PP POR ON 1 ROCK NO CUT NO VIS
 SHOW

LS DK GRY TO GRY TO TN HD DN TT CRYPTO TO VVFN
 TO FN XLN MTX TR IMBD FOSS NO FLO NO VSI POR NO
 VIS SHOW

LS LT GRY TN LT TN BUFF HD TO FRM SUCRO TXT TR
 IMBD CALC XLS IP TR IMBD FOSS IP SCATT LT YLW FLO
 TR PR INTER XLN POR NO CUT NO VIS SHOW

SH GRY FRM SMOOTH BRITT CALC TO LMY



SH BLK CARB

LE COMPTON 3079' -1106'

LS DK GRY TO GRY DK TN TO BUFF HD DN TT CRYPTO TO VVFN XLN MTX TR LT WHT CHERT IP TR PYR NODULES IN TRAY NO FLO NO VIS POR NO VIS SHOW

SH GRY DK BRN FRM BLKY CALC TO LMY WITH TR IMB FOSS IP

SH BLK CARB

3127'-3132' LS TN DUE TO STAIN BUFF TO OFF WHT FRM BRITT VFN TO FN XLN MTX RE-XLN MTX TR IMBD CALC XLS TO CALC XLS IN VUGS DULL YLW FLO 20% STAIN 30% TR VUGS PR INTER XLN POR FAINT TO POOR ODOR INSTANT FLUSH CUT TO SPURTY MILKY BLUE STREAM CUT BRN LEACH ON DISH

LS LT TN CRM BUFF FRM BRITT VFN TO FN XLN MTX TT SUCRO TXT WITH TR IMBD QRTZ XLS TR IMBD FOSS TO TR LOOSE FOSS FRG IN TRAY SCATT LT DULL YLW FLO NO STAIN POSS TT INTER XLN POR TO NO VIS POR NO CUT NO VIS SHOW

LS GRY LT GRY TO TN CRM BUFF MOTT HD TO FRM BRITT VFN TO FN XLN MTX SUCRO TXT TR DISS GRY SI SUB-CHLKY TR LMNTD PYR TR MICRO PP POR NO FLO NO CUT NO VIS SHOW

3172'-3177' LS LT TN DUE TO STAIN CRM BUFF TO OFF WHT FRM BRITT VFN TO FN XLN MTX IMBD FOSS SUB-CHLKY TR IMBD CALC XLS IP DULL GLDN YLW FLO 40% STAIN 25% PR TO TR FAIR INTER XLN POR TO TR MICRO PP AND PR VUG POR FAINT ODOR FAIR FLUSH CUT FAIR TO GOOD MILKY BLUE STREAM CUT FROM 3 ROCKS LT YLW GREEN RING CUT

LS LT TN CRM BUFF HD TO FRM BRITT VFN TO FN XLN MTX RE-XLN MTX IP SUCRO TXT IP SUB-CHLKY TR IMBD FOSS SCATT LT YLW FLO NO STAIN NO ODOR NO CUT NO VIS SHOW

HEEBNER 3202' -1229'

SH BLK CARB

SH DK GRY DK BRN SMOOTH FRM TO HD BRITT WITH L DK GRY TO TN HD DN TT CRYPTO TO VFN XLN MTX NO FLO NO VIS POR NO VIS SHOW

3224'-3228' LS LT TN CRM BUFF FRM BRITT FN XLN MTX RE-XLN MTX IMBD FOSS SUB-CHLKY IP STAIN 15-20% FAINT PR ODOR BURNT GASSY SMELL SUCRO TXT IP DULL YLW FLO 40% PR TO POSS FR INTER XLN POR 20% TO FR VUG POR 15% TO PP AND MICRO PP POR TO POSS INTER FOSS POR PR TO FR FLUSH CUT TO SLOW MILKY BLUE STREAM CUT

DOUGLAS 3237' -1264'

SH DK GRY TO GRY FRM BLKY TO SMOOTH HD SPLNTY TO SFT SILTY IP

LANSING 3259' -1286'

3259'-3268' LS TN TO LT TN DUE TO STAIN CRM BUFF OFF WHT HD FRM BRITT VFN TO FN TO MD XLN MTX RE-XLN MTX IP TR SM TO MD IMBD FOSS TO TR LOOSE FOSS FRG IN TRAY CALC XLS IN VUGS LT TN STAIN 25% TO SATURATED STAIN 15% LT BRITE YLW FLO 20% TO GLDN YLW FLO 10% TO DULL GLDN YLW FLO 20% FAIR VUG POR TO PR TO TR FAIR INTER XLN POR IP FAIR TO GOOD ODOR FAIR INSTANT FLUSH CUT TO SLOW MILKY BLUE STREAM CUT 30% TO LT BRN LEACH ON DISH

3278'-3286' LS LT TN DUE TO STAIN CRM BUFF HD TO FRM BRITT VFN TO FN TO MD XLN MTX RE-XLN MTX IMBD CALC XLS IN LYERS TO CLUSTERS SM OOLITES WITH IMBD CALC XLS /W STAIN TR IMBD QRTZ XLS TO TR LOOSE SM TO MD QRTZ XLS IN TRAY PR TO FR TO TR GOOD INTER XLN POR PR TO FR VUG TO MICRO VUG POR POSS FR INTER FOSS POR BRITE YLW FLO 35% TO DULL GLDN YLW FLO 45% PR TO FAIR FLUSH CUT TO SLOW MILKY BLUE STREAM CUT BRIT

RPM 80
WOB 39
PP 725
WT 8.9
VIS 48

3100

3150

3200

3250

CFS 3191'

DST#1
3196'-3270'

RPM 80
WOB 39
PP 725
WT 9.0
VIS 52

CFS/CTCH 3268'

TOH FOR SHORT TRIP CTCH 30 MIN

CFS/CTCH 3270'

TOH DST#1

CFS 3291'
CTCH 3291'

DST#2 3276'-3291'

"C"3278'

60-65 UN

CN
102 UN SH GAS

85 UN POSS SHOW

CN

96 UN

CN

105 UN SHOW

CN

108 UN

114 UN

CN

145 UN

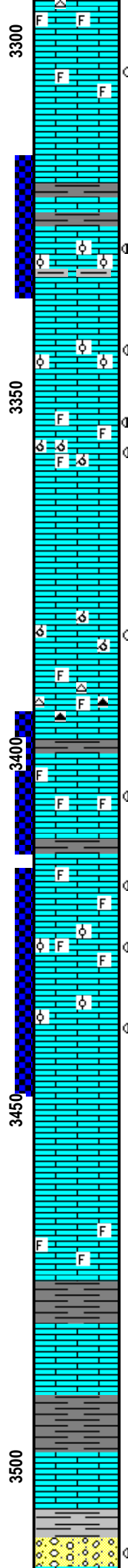
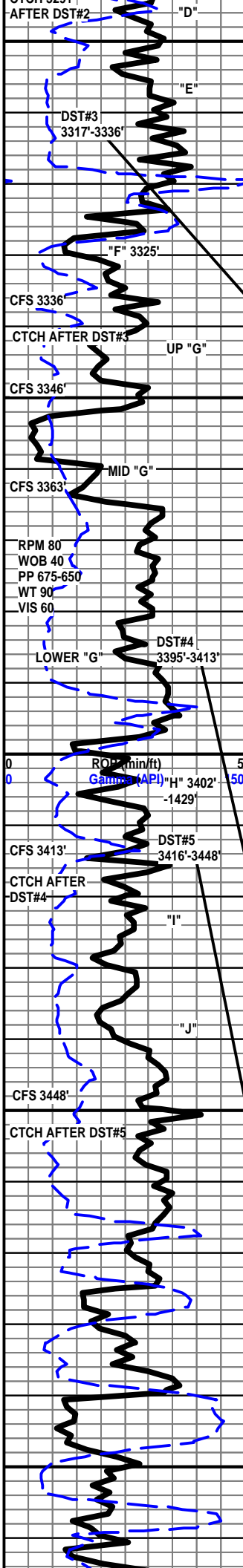
CN

CN

CROMATAGRAPH TURNED OFF DUE TO HEAVIES IN THE MUD

3291' @ 00:01 AM
04/04/11

1125 UN



3292'-3300' LS TN CVRM BUFF TO OFF WHT HD DN BRITT VFN TO FN XLN MTX TR IMBD FOSS TR PYR NODULES IN TRAY SCATT LT YLW FLO PR TT INTER XLN POR IP NO STAIN NO ODOR NO CUT NO VIS SHOW

3300'-3306' LS LT TN BUFF TO OFF WHT HD TO FRM BRITT SUB-CHLKY IP TR IMBD FOSS TR IMBD VRY SM CALC XLS IP VRY LT TR STAIN 3 ROCKS TR MICRO VUG TO PP POR IP FAINT TO PR FLUSH CUT LT YLW RING CUT

3306'-3313' LS CRM BUFF OFF WHT TO LT GRY IP HD DN TT CRYPTO TO VVFN XLN MTX NO FLO NO VIS POR NO VIS SHOW

3326'-3331' LS LT TN DUE TO STAIN 30% CRM BUFF OFF WHT FN XLN MTX RE-XLN MTX IP IMBD OOLITES IP TR HD FRM CHLK WITH LT TN OIL STAIN IMBD CALC XLS IN VUGS BRITE YLW FLO 65% TO GLDN YLW FLO 10% PR TO FR INTER XLN POR ABUNDT VUGS AND MICR VUGS TO PP AND MICRO PP POR PR TO FR ODOR PR TO FAIR FLUSH CUT TO SLOW MILKY BLUE STREAM CUT STRONG MILKY BLUE STREAM CUT FROM 4 ROCKS

3333'-3336' LS CRM BUFF OFF WHT HD TO FRM VFN XLN MTX SCATT LT YLW FLO NO STAIN NO ODOR NO CUT NO VIS SHOW

3341'-3346' LS CRM OFF WHT HD DN CRYPTO TO VVFN XLN MTX SUCRO TXT IP IMBD VRY SM OOLITES IP STAIN 10% VUGS 25% TO F AND MICRO PP POR 15% STAIN IMBD IN VUGS FAIR FLUSH CUT TO SPURTTY MILKY BLUE STREAM CUT

3352'-3358' LS CRM BUFF OFF WHT VFN TO FN XLN MTX RE-XLN MTX LT TN DUE TO SATURATED STAIN 5% LT OIL STAIN 10% IMBD CALC XLS SUB-CHLKY TR LMNTD PYR IP IMBD FOSS 60% TR LOOSE FOSS FRG IN TRAY OOMOLDIC IP PR TO FAIR ODOR LT BRITE YLW FLO 6 TO LT DULL YLW FLO 25% FAIR TO GOOD INTER XLN POR MICRO VUGS TO PP AND MICRO PP POR FR TO GOOD FLUSH CUT TO SLOW MILKY BLUE STREAM CUT TO STRONG MILKY BLUE STREAM CUT 4 ROCKS

3381'-3387' LS LT GRY DK TN TO TN BUFF HD DN TT CRYPTO TO VVFN XLN MTX WITH TR IMBD SM OOLITES IP LT YLW FLO 35% LT TN OIL STAIN IN MICRO VUGS TR VUG TO MICRO VUG POR IP TO NO POR FAINT FLUSH CUT LT YLW GRN RING CUT

LS GRY DK TN TO TN BUFF TO OFF WHT MOTT HD TO FRM BRITT VFN TO FN XLN MTX RE-XLN MTX SUCRO TXT IP IMBD FOSS IMBD QRTZ XLS IP SUB-CHLKY IP LT BRITE YLW FLO 25% TO DULL GLDN YLW FL 15% STAIN 40% TO TR LIVE OIL IN TRAY FAIR ODOR PR FR TO TR GOOD INTER XLN POR IP MICRO PP POR TO POSS FRACTURES INSTANT FLUSH CUT TO SLOW STRONG MILKY BLUE STREAM CUT BRN LEACH ON DISH

3417'-3422' LS DK TN TO TN BUFF HD DN TT CRYPTO TO VVFN TO FN XLN MTX TR IMBD FOSS TR LT WHT CHERT IP LT YLW FLO 50% STAIN 30% FAINT TO PR ODOR TR PR VUG POR TO MICRO PP POR PR TO FAIR FLUSH CUT

3424'-3430' LS TN LT TN CRTM BUFF VFN TO FN XLN MTX RE-XLN MTX IP SUCRO TXT IP IMBD OOLITES OMOLDIC IP TR IMBD QRTZ XLS IP SUB-CHLKY STAIN SATURATED 40% LT TN OIL STAIN IN OLLICAST WITH IMBD CALC XLS TR TT INTER XLN POR TO VUGGY POR 20% TO MICRO PP AND PP POR 20% GLDN YLW FLO 60% FAIR TO GOOD INSTANT FLUSH CUT TO SLOW MILKY BUE STREAM CUT

3434'-3440' LS CRM BUFF OFF WHT VFN TO FN XLN MTX CHLKY WITH IMBD FOSS TR LOOSE FOSS FRG IN TRAY LT YLW FLO 70% STAIN LT TN 30% TO BLK OIL STAIN 10% POSS INTER XLN POR TO PP AND MICRO PP POR PR TO FR INSTANT FLUSH CUT TO SPURTTY MILKY BLUE STREAM CUT.

LS OFF WHT TO WHT HD DN TT CRYPTO TO VVFN XLN MTX SCATT LT DULL YLW FLO NO ODOR NO STAIN NO CUT NO VIS SHOW

LS OFF WHT TO WHT FRM BRITT VFN TO FN XLN MTX IMBD FOSS CHLKY FRM PCS WHT CHLK IN TRAY TR LMNTD PYR IP FAIR INTER XLN POR TO PP AND MICRO PP POR DULL LT YLW FLO 30% NO ODOR NO CUT NO VIS SHOW

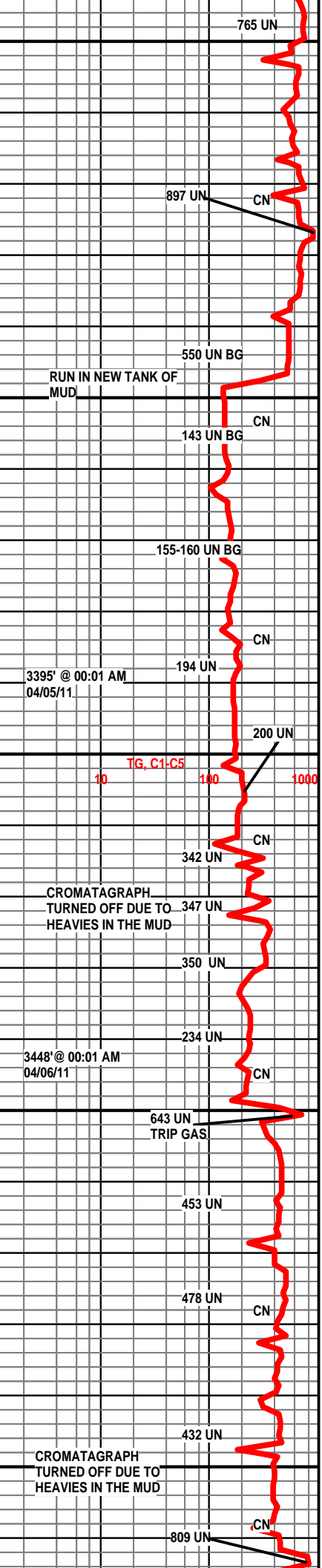
SH DK GRY TO GRY SMOOTH BRITT LMY WITH TR BLK CARB SH IP WAXY TXT

LS LT GRY TN TO BUFF OFF WHT HD DN TT VVFN TO FN XLN MTX TR DISS GRY SH NO FLO NO VIS POR NO VIS SHOW

BKC 3490' -1517'

LS LT GRY LT TN CRM BUFF VFN TO FN XLN MTX SUB-CHLKY TR LMNTD PYR IP LT YLW FLO NO ODOR NO VIS POR NO CUT NO VIS SHOW

CONG DK TN TO TN BUFF TO CRM TO LT GRY FN TO MD XLN MTX RE-XLN MTX THRU TR IMBD OOLITES IMBD SM TO MD QRTZ XLS TO LOOSE QRTZ XLS IN TRAY TR LOOSE UNCON SM SUB-RND TO RND S



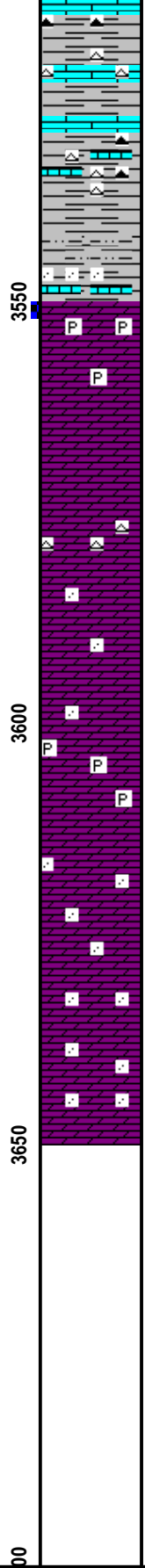
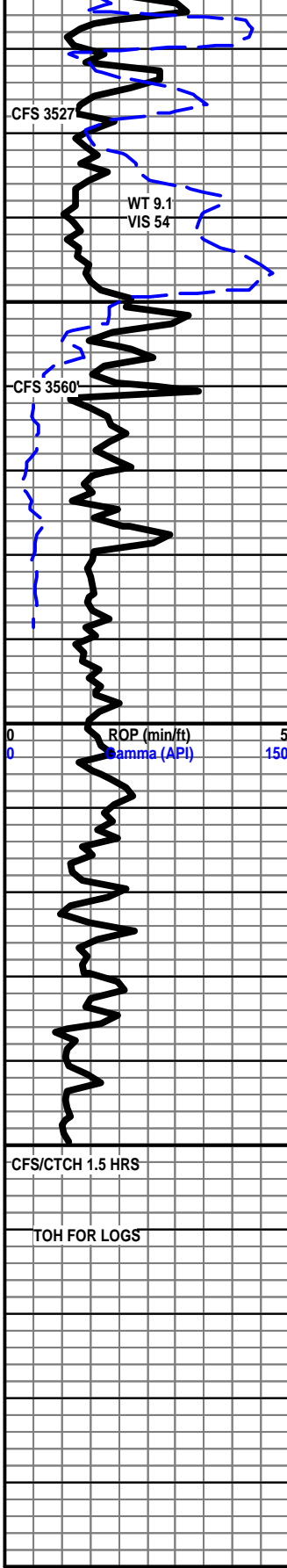
RUN IN NEW TANK OF MUD

3395' @ 00:01 AM 04/05/11

CROMATAGRAPH TURNED OFF DUE TO HEAVIES IN THE MUD

3448' @ 00:01 AM 04/06/11

CROMATAGRAPH TURNED OFF DUE TO HEAVIES IN THE MUD



GRNS IN TRAY WITH TR LT OIL STAIN IMBD VRY SM TO SM SUB-ANG TO SUB-RND TO RND SS GRNS SATURATED OIL STAIN 20% TO DK BLKY GUMMY OIL ON ROCKS PR TO POSS FAIR INTER XLN TO PR INTER GRAN POR PP AND MICRO PP POR INSTANT FLUSH CUT TO SLOW MILKY BLUE STREAM CUT

SH RE/BRN SFT GUMMY THRU WITH CHERT TN TO DK GRN OFF WHT TO TRANSLUCENT LS OFF WHT TO WHT FRM BRITT GUMMY CHLK IN TRAY

ARBUCKLE 3550' -1577'

3550'-3553' DOL OFF WHT LT GRY HD DN TT CRYPTO TO VVFN XLN MTX WITH LMNTD PYR TO TR IMBD PYR NO FLO NO VIS POR NO CUT NO VIS SHOW

3553'-3555' DOL LT GRY OFF WHT TO WHT HD FRM BRITT FN TO MD XLN MTX RE-XLN MTX THRU VRY SM TO SM ANG TO SUB-AND DOL XLS THRU IMBD PYR VRY DULL LT YLW FLO STAIN 20% DK BLK STAIN WITH TR GUMMY BLK OIL ON ROCKS PR FR TO GOOD INTER XLN POR TO PP AND MICRO PP POR FAIR FLUSH CUT TO SLOW SPURTTY MILKY BLUE STREAM CUT

DOL 3555' -3558' DOL OFF WHT TO WHT HD FRM BRITT VFN TO FN XLN MTX SUCRO TXT IP IMBD DOL XLS TO CLR DOL GRNS IMBD CHLK NO FLO NO VIS POR NO CUT NO VIS SHOW

3560'-3575 DOL GRY LT CRM OFF WHT TO WHT HD FRM BRITT VFN TO FN TO MD XLN MTX IMBD SUB-ANG DOL XLS THRU IMBD CHLK TR PYR DEAD OIL STAIN 20% DULL YLW FLO 60% FAINT TO PR FLUSH CUT LT YLW RING CUT

3580'-3600' DOL LT GRY OFF WHT TO WHT FRM BRITT VFN TO FN RE-XLN MTX THRU TR IMBD CLR SUB-RND DOL GRNS SUB-CHLKY NO FLO PR FR TO GOOD INTER XLN POR NO STAIN NO ODOR NO CUT NO VIS SHOW

3600'-3613' DOL OFF WHT TO WHT HD FRM CRYPTO TO VVFN TO FN XLN MTX HD FRM PCS CHLK IN TRAY TR PYR NODULES IN TRAY WTH TR IMBD VRY SM RND SS GRNS IMBD NO FLO PR INTER XLN POR TO TR PP AND MICRO PP POR NO ODOR NO CUT NO VIS SHOW

3613'-3635' DOL OFF WHT TO WHT LT GRY HD FRM BRITT VFN TO FN XLN MTX RE-XLN MTX IMBD VRY SM TO SM CLR DOL GRNS SUB-CHLKY NO FLO FAIR TO GOOD INTER XLN POR NO ODOR NO CL NO VIS SHOW

DOL OFF WHT TO WHT FRM BRITT VFN TO FN XLN MTX IMBD DOL GRNS IMBD CHLK NO FLO NO VIS POR NO CUT NO VIS SHOW

TD 3650' 6:30 PM 04/06/11

LOGS BY WEATHERFORD

LIBERAL KANSAS

THANK YOU FOR CHOOSING EARTHTECH

LOG COMPLETED BY RODNEY NAPIER

