KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1058289

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 # 3882
Name: Samuel Gary Jr. & Associates, Inc.
Address 1: 1515 WYNKOOP, STE 700
Address 2:
City: DENVER State: CO Zip: 80202 + __ __ __ __
Contact Person: NEIL SHARP
Phone: (303) 831-4673
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: TIM HEDRICK
Purchaser: GARY WILLIAMS ENERGY COMPANY

Designate Type of Completion:

- [x] New Well [ ] Re-Entry [ ] Workover
- [x] 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 #:

02/27/2011	03/09/2011	03/09/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-165-21915-00-00
Spot Description:
NE - SW - SE - NE Sec. 2 Twp. 16 S. R. 17 [ ] East [x] West
2194 Feet from [x] North / [ ] South Line of Section
762 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[x] NE [ ] NW [ ] SE [ ] SW
County: Rush
Lease Name: Younger - Dome Well #: 1-2
Field Name:
Producing Formation: LANSING/ PENN SAND
Elevation: Ground: 1903 Kelly Bushing: 1913
Total Depth: 3606 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1061 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 43000 ppm Fluid volume: 1000 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: SAM GARY JR & ASSOCIATES
Lease Name: HAYS OWWO License #: 3882
Quarter NW Sec. 7 Twp. 16 S. R. 15 [ ] East [x] West
County: BARTON Permit #: 15165218810000

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

- [x] **Letter of Confidentiality Received**
  Date: 06/24/2011
- [x] **Confidential Release Date:** 06/23/2013
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] I [ ] II [ ] III **Approved by:** NAOMI JAMES **Date:** 06/27/2011

Side Two

1058289

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: Younger - Dome Well #: 1-2

Sec. 2 Twp. 16 S. R. 17 ☐ East ☑ West County: Rush

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
TOPEKA	2936	-1023
HEEBNER	3159	-1246
DOUGLAS	3193	-1280
LANSING	3211	-1298
ARBUCKLE	3498	-1585
TD	3606	

CASING RECORD ☑ New ☐ 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
SURFACE	12.25	8.625	23	1061	CLASS A	425	3%CC, 2% GEL
PRODUCTION	7.875	5.5	15.5	3561	QPRO	180	4%GEL, 2%CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

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

TUBING RECORD: Size: 2.875 Set At: 3600 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 03/30/2011

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10		30		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
3212'-3472' OA

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

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	Younger - Dome 1-2
Doc ID	1058289

All Electric Logs Run

DIL
MICRO
IND
SONIC

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	Younger - Dome 1-2
Doc ID	1058289

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3212'-16'	500 gallons 28% MCA w/ 3% MAS	3212'-16'
4	3236'-40'	500 gallons 28% MCA w/ 3% MAS	3236'-40'
4	3286'-89'	500 gallons 28% MCA w/ 3% MAS	3286'-89'
4	3297'-3300'	500 gallons 28% MCA w/ 3% MAS	3297'-3300'
4	3351'-56'	500 gallons 28% MCA w/ 3% MAS	3351'-56'
4	3467'-72'	500 gallons 28% MCA w/ 3% MAS	3467'-72'

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

Kansas
Corporation Commission

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

June 24, 2011

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

Re: ACO1
API 15-165-21915-00-00
Younger - Dome 1-2
NE/4 Sec.02-16S-17W
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

Date: 3/2/2011
Invoice # 4700

P.O.#:

Due Date: 4/1/2011
Division: *Russell*

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

Invoice

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

Reference:
YOUNGER- DOME 1-2

Description of Work:
LONG SURFACE JOB

☑ DRLG ☐ COMP ☐ W/O ☐ LOE ☐ GG

Account	8300-238
Well/Prospect	YOUNGER - DOME 1-2
Deck	
AFE	
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable
Labor		$ 693.97	No
Common-Class A	425	$ 5,254.13	Yes
8 5/8" Basket	3	$ 960.64	Yes
Bulk Truck Matl-Material Service Charge	438	$ 887.68	No
Calcium Chloride	15	$ 572.43	Yes
Pump Truck Mileage-Job to Nearest Camp	22	$ 22.49	No
8 5/8" Centralizer	3	$ 194.56	Yes
Premium Gel (Bentonite)	8	$ 131.98	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	22	$ 130.19	No
8 5/8" Top Rubber Plug	1	$ 107.41	Yes
Baffle Plate Aluminum, 8 5/8"	1	$ 91.20	Yes

Item	Quantity	Price	Taxable

Invoice Terms:
Net 30

SubTotal:	$	*9,246.69*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(1,387.00)
SubTotal for Taxable Items:	$	6,215.50
SubTotal for Non-Taxable Items:	$	1,054.31
Total:	$	7,859.68
6.30% Rush County Sales Tax Tax:	$	391.58
Amount Due:	**$**	**8,251.26**
Applied Payments:		
Balance Due:	**$**	**8,251.26**

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.

RECEIVED
MAR 15 2011
SAMUEL GARY JR. & ASSOCIATES, INC.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 4700

Cell 785-324-1041

	Sec.	Twp.	Range	County	State	On Location	Finish
Date 2-28-11	2	16	17	Rush	Kansas		12:00p

Lease Youngquist Dave Well No. 1-2 Location Pfeifer 5S 1E 2S

Contractor Val Rig 6

Type Job Surface

Hole Size 12¼ T.D. 1061

Csg. 8⅝ 23lb Depth 1061

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 42.75 Shoe Joint 42.75

Meas Line Displace 64¾ Bbl

EQUIPMENT

Pumptrk 5 No. Cementer / Helper Steve

Bulktrk 12 No. Driver / Driver Brandon

Bulktrk No. Driver / Driver Doug

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

X Signature

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.

Owner

Charge To Samuel Gary Jr. & Associates

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered ~~420~~ 425 Common
3%cc 2%Gel ¼lb Flo-Seal

Common 425

Poz. Mix

Gel. 8

Calcium 15

Hulls

Salt

Flowseal

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 438

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer 3

Baskets 3

AFU Inserts

Float Shoe

Latch Down

8⅝ Baffle Plate
8⅝ Rubber Plug

Pumptrk Charge Long Surface

Mileage 22

Tax

Discount

Total Charge

Date: 3/11/2011
Invoice # 4929

P.O.#:

Due Date: 4/10/2011
Division: *Russell*

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

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	8300 - 238
Well/Prospect	YOUNGER DOME 1-2
Deck	
AFE	
Approval	
Description	

Reference:
YOUNGER DOME 1-2

Description of Work:
PROD LONG STRING

Services / Items Included:	Quantity	Price	Taxable
Labor		$ 634.73	No
Pro-C Cement	225	$ 3,545.12	Yes
Gilsonite	900	$ 1,251.22	Yes
CFL 117	176	$ 1,004.83	Yes
5 1/2" Basket	3	$ 639.51	Yes
CD-110	170	$ 630.24	Yes
8 5/8" Centralizer	8	$ 474.54	Yes
Bulk Truck Matl-Material Service Charge	225	$ 417.07	No
Mud Clear	500	$ 342.93	Yes
Defoamer A or CAF-38	50	$ 324.39	Yes
Auto Fill Float Shoe, 5 1/2"	1	$ 283.61	Yes

Item	Quantity	Price	Taxable
Salt (Fine)	19	$245.83	Yes
Latch Down Plug & Baffle, 5 1/2"	1	$207.61	Yes
Pump Truck Mileage-Job to Nearest Camp	22	$203.49	No
Bulk Truck Mileage-Job to Nearest Bulk Plant	22	$119.08	No
Flo Seal	56	$103.80	Yes
KCL	2	$55.35	Yes

Invoice Terms:
Net 30

SubTotal:	$	*10,483.37*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(1,572.50)
SubTotal for Taxable Items:	$	7,742.64
SubTotal for Non-Taxable Items:	$	628.70
Total:	$	8,910.86
6.30% Rush County Sales Tax Tax:	$	487.79
Amount Due:	$	**9,398.65**
Applied Payments:		
Balance Due:	$	**9,398.65**

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.

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. 4929

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-9-11	2	16	17	Rush	KS		6:15 a.m.

Lease Younger Dome Well No. 1-2 Location Alden 1S 1E 1/2S Winte

Contractor Val #6

Type Job Production String

Hole Size 7 7/8 T.D. 3604

Csg. 5 1/2 Depth ~~3600~~ 3562

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 22.80 Shoe Joint 22.80

Meas Line Displace 84 1/4 BC

Owner

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Sam Gard

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 225 Q. Pro C 1/4 ~~5~~ ~~#~~ KOL
~~500 gal Mud Clean 48~~ ~~20~~ ~~KCL~~ 2% CAF 38
Common 225 Q pro-C 10% salt 5# gilsonite
Poz. Mix .3% CD-110 .8% CFL-117
Gel.
Calcium CD-110 170#
~~Hulls~~ KCL 2 gal
Salt 19
Flowseal 56#
Kol-Seal 1057#
Mud CLR 48 500 gal
CFL-117 or CD110 CAF 38 50#
Sand CFL-117 176#
Handling 3.25
Mileage

EQUIPMENT

Pumptrk 9 No. Cementer Chris
Helper
Bulktrk No. Driver Paul
Driver
Bulktrk 8 No. Driver
Driver Carl

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30SK

Mouse Hole 15SK

Centralizers

Baskets

D/V or Port Collar

5 1/2 set @ 3562 Insert @ 3539.20
Est Circulation. Pump 500 gal Mud Clean 48
Plug Rathole. Mouse hole. Mix 25SK @
155SK @ 15#. Clean lines. Displace Plug.
Plug landed @ 1300 psi - Release
pressure Dry.

Thanks!

X Signature

FLOAT EQUIPMENT

Guide Shoe

Centralizer Turbo's 8

Baskets 3

AFU Inserts 1 AFU Float Shoe

Float Shoe

Latch Down 1

Rotating Head N/C

Pumptrk Charge Prod Long String

Mileage 22

Tax

Discount

Total Charge

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rooks

Job Ticket: 41715 **DST#: 1**

Test Start: 2011.03.03 @ 20:30:35

GENERAL INFORMATION:

Formation: **A-E**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:02:05
Time Test Ended: 03:37:05

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3192.00 ft (KB) To 3274.00 ft (KB) (TVD)
Total Depth: 3274.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

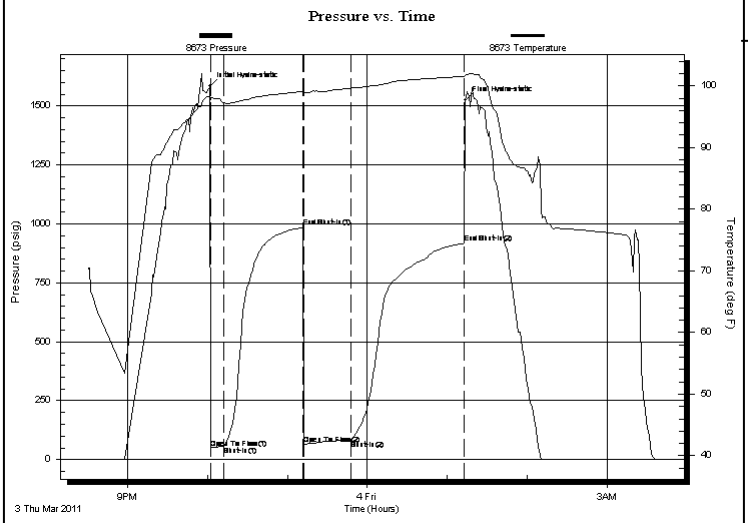
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8673 **Inside**

Press@RunDepth: 83.43 psig @ 3261.00 ft (KB)
Start Date: 2011.03.03 End Date: 2011.03.04
Start Time: 20:30:37 End Time: 03:37:05

Capacity: 8000.00 psig
Last Calib.: 2011.03.04
Time On Btm: 2011.03.03 @ 22:01:50
Time Off Btm: 2011.03.04 @ 01:13:35

TEST COMMENT: IFP-Ran 10 Min.Built to 6"
ISI-Ran 60 Min. Dead
FFP-Ran 30 Min.Strong,BOB in 2 Min.
FSI-Ran 90 Min.Blow back Built to1-3/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1583.22	98.26	Initial Hydro-static
1	50.14	97.73	Open To Flow (1)
11	57.28	97.28	Shut-In(1)
70	985.61	99.10	End Shut-In(1)
71	63.96	98.82	Open To Flow (2)
106	83.43	99.62	Shut-In(2)
191	917.66	101.55	End Shut-In(2)
192	1524.73	101.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	gassy Oil Cut Mud-20%G-25%O-55%M	1.19
0.00	385' Gas In Pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rooks

Job Ticket: 41715 **DST#: 1**

Test Start: 2011.03.03 @ 20:30:35

GENERAL INFORMATION:

Formation: **A-E**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:02:05
Time Test Ended: 03:37:05

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3192.00 ft (KB) To 3274.00 ft (KB) (TVD)
Total Depth: 3274.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

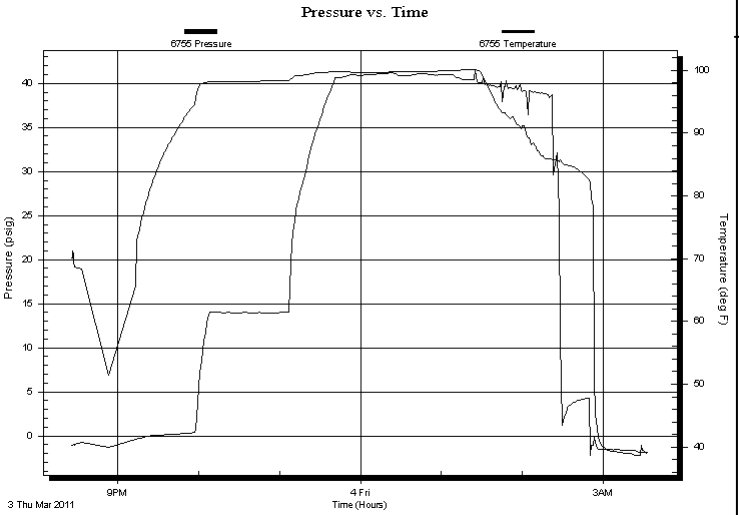
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6755 **Fluid**

Press@RunDepth: psig @ 3157.00 ft (KB)
Start Date: 2011.03.03 End Date: 2011.03.04
Start Time: 20:26:11 End Time: 03:33:54

Capacity: 8000.00 psig
Last Calib.: 2011.03.04
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Ran 10 Min.Built to 6"
ISI-Ran 60 Min. Dead
FFP-Ran 30 Min.Strong,BOB in 2 Min.
FSI-Ran 90 Min.Blow back Built to1-3/4"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
85.00	gassy Oil Cut Mud-20%G-25%O-55%M	1.19
0.00	385' Gas In Pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rooks

Job Ticket: 41715 **DST#: 1**

Test Start: 2011.03.03 @ 20:30:35

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	34 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.09 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5700.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

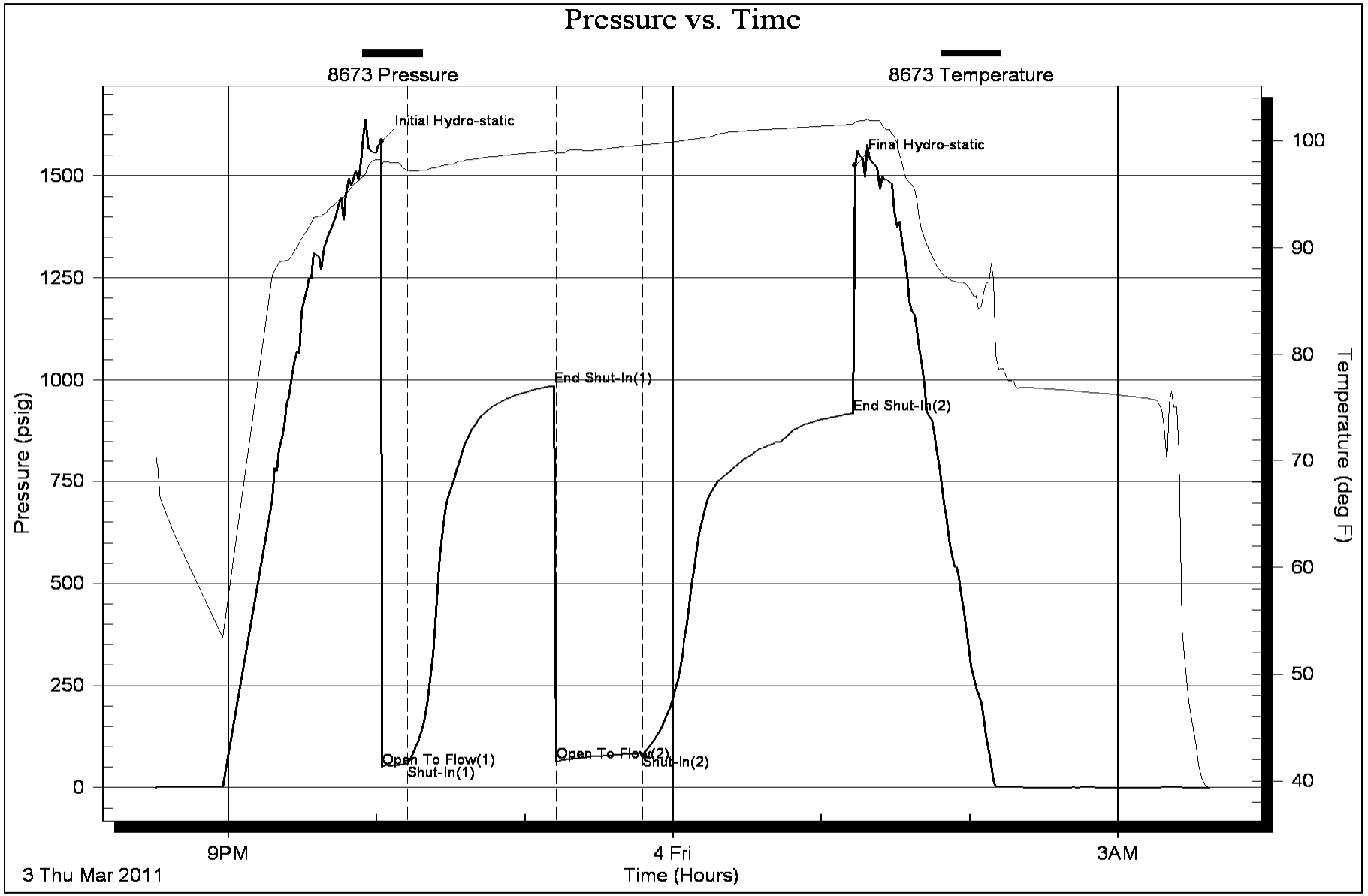
Length ft	Description	Volume bbl
85.00	gassy Oil Cut Mud-20%G-25%O-55%M	1.192
0.00	385' Gas In Pipe	0.000

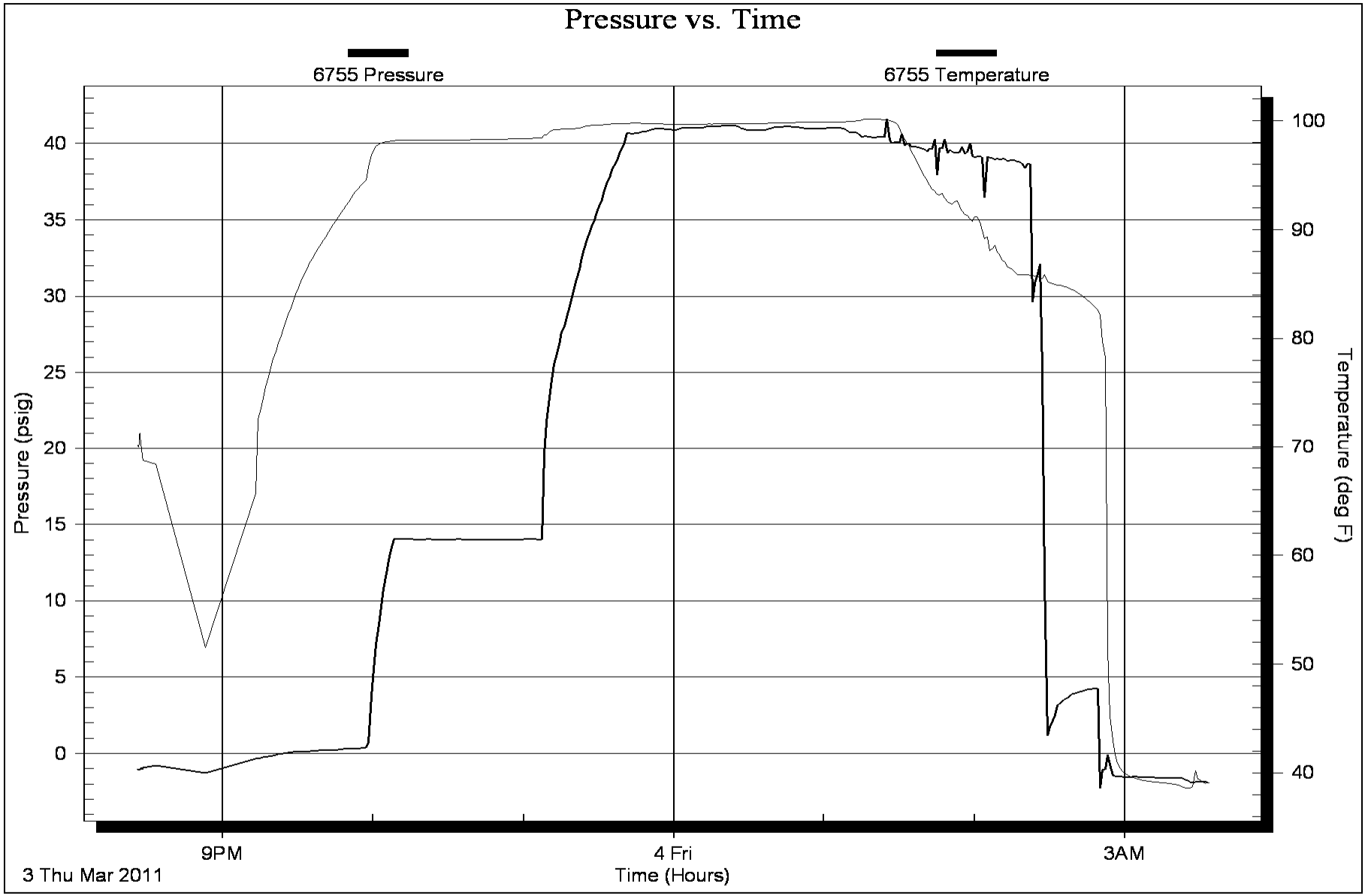
Total Length: 85.00 ft Total Volume: 1.192 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler-585#,3000ML Gassy Oil Cut Mud


Pressure vs. Time
8673 Pressure
8673 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40
9PM
4 Fri
3AM
3 Thu Mar 2011
Time (Hours)


Pressure vs. Time
6755 Pressure
6755 Temperature
Pressure (psig)
Temperature (deg F)
40
35
30
25
20
15
10
5
0
100
90
80
70
60
50
40
9PM
4 Fri
3AM
3 Thu Mar 2011
Time (Hours)

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary jr & Associates**

1515 Wynkoop
Suite 700
Denver, CO. 80202

ATTN: Neil Sharp

2-16s-17w-Rush

Younger-Dome #1-2

Start Date: 2011.03.04 @ 13:30:17
End Date: 2011.03.04 @ 21:16:02
Job Ticket #: 41716 DST #: 2

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

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41716 **DST#: 2**

Test Start: 2011.03.04 @ 13:30:17

GENERAL INFORMATION:

Formation: **F-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:21:17
Time Test Ended: 21:16:02

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3281.00 ft (KB) To 3304.00 ft (KB) (TVD)
Total Depth: 3304.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

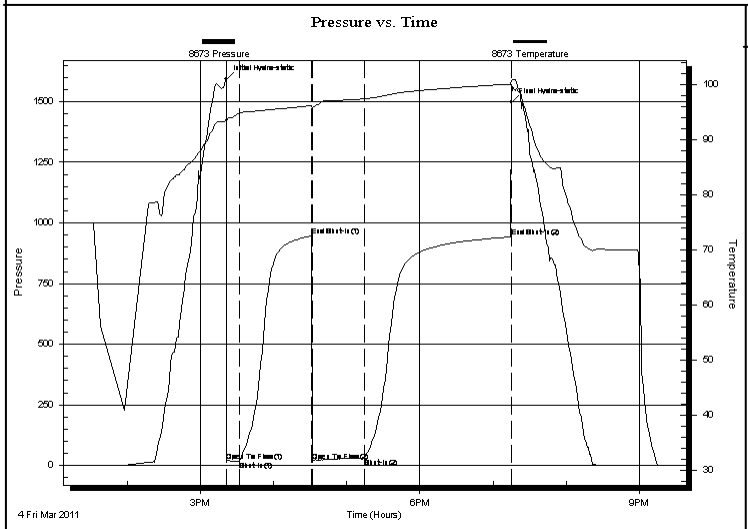
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8673 **Inside**

Press@RunDepth: 31.84 psig @ 3286.00 ft (KB)
Start Date: 2011.03.04 End Date: 2011.03.04
Start Time: 13:30:19 End Time: 21:16:02

Capacity: 8000.00 psig
Last Calib.: 2011.03.04
Time On Btm: 2011.03.04 @ 15:20:47
Time Off Btm: 2011.03.04 @ 19:15:02

TEST COMMENT: IFP-10 Min.-Good Blow ,Built to 6"
ISI-60 Min.-Dead
FFP-40 Min.-BOB on Open
FSI-135 Min.-Blow back 1/2" after 20 Min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1591.54	93.82	Initial Hydro-static
1	17.79	93.08	Open To Flow (1)
11	18.76	94.78	Shut-In(1)
70	946.85	96.18	End Shut-In(1)
71	18.41	95.88	Open To Flow (2)
114	31.84	97.42	Shut-In(2)
234	942.56	100.09	End Shut-In(2)
235	1497.40	100.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Gassy Mud Cut Oil -15%G-45%O-40%M	0.63
0.00	900' Gas In Pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41716 **DST#: 2**

Test Start: 2011.03.04 @ 13:30:17

GENERAL INFORMATION:

Formation: **F-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:21:17
Time Test Ended: 21:16:02

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3281.00 ft (KB) To 3304.00 ft (KB) (TVD)
Total Depth: 3304.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

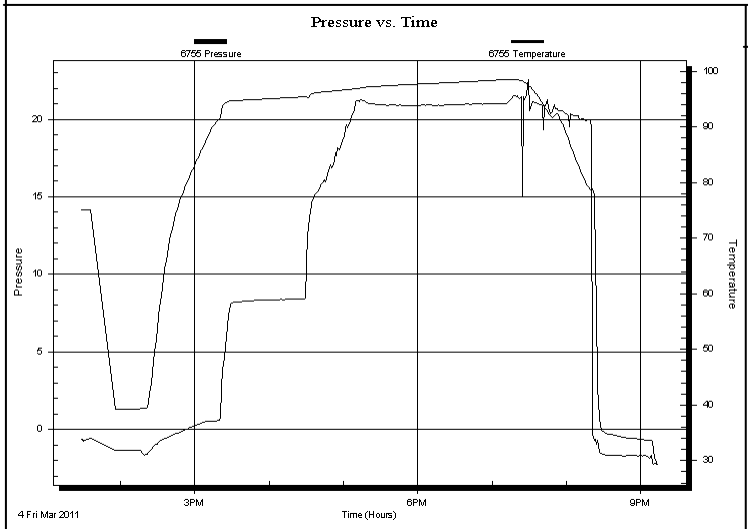
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6755 **Fluid**

Press@RunDepth: psig @ 3246.00 ft (KB)
Start Date: 2011.03.04 End Date: 2011.03.04
Start Time: 13:28:35 End Time: 21:14:03

Capacity: 8000.00 psig
Last Calib.: 2011.03.04
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-10 Min.-Good Blow ,Built to 6"
ISI-60 Min.-Dead
FFP-40 Min.-BOB on Open
FSI-135 Min.-Blow back 1/2" after 20 Min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Gassy Mud Cut Oil -15%G-45%O-40%M	0.63
0.00	900' Gas In Pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41716 **DST#: 2**

Test Start: 2011.03.04 @ 13:30:17

GENERAL INFORMATION:

Formation: **F-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:21:17
Time Test Ended: 21:16:02

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3281.00 ft (KB) To 3304.00 ft (KB) (TVD)
Total Depth: 3304.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

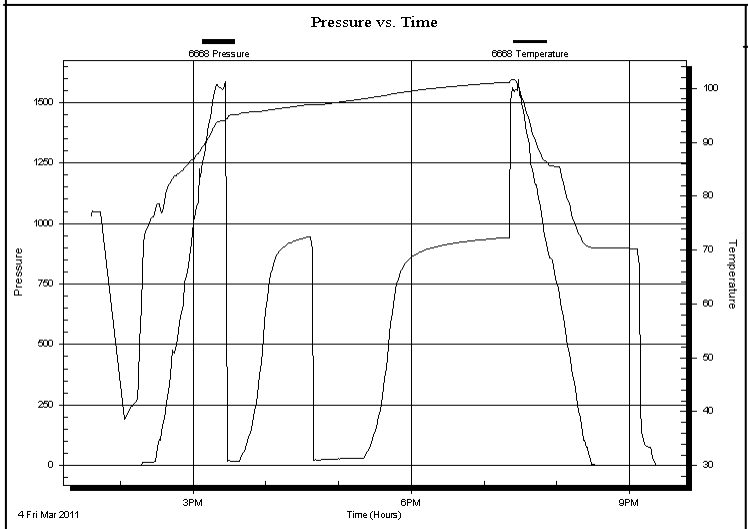
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6668 **Outside**

Press@RunDepth: psig @ 3286.00 ft (KB)
Start Date: 2011.03.04 End Date: 2011.03.04
Start Time: 13:36:25 End Time: 21:23:08

Capacity: 8000.00 psig
Last Calib.: 2011.03.04
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-10 Min.-Good Blow ,Built to 6"
ISI-60 Min.-Dead
FFP-40 Min.-BOB on Open
FSI-135 Min.-Blow back 1/2" after 20 Min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Gassy Mud Cut Oil -15%G-45%O-40%M	0.63
0.00	900' Gas In Pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41716 **DST#: 2**

Test Start: 2011.03.04 @ 13:30:17

Tool Information

Drill Pipe:	Length:	3253.00 ft	Diameter:	3.80 inches	Volume:	45.63 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		38000.00 lb
					Total Volume:	45.63 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		7.00 ft					String Weight:	Initial	36000.00 lb
Depth to Top Packer:		3281.00 ft						Final	36000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		23.00 ft							
Tool Length:		58.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Recorder	0.00	6755	Fluid	3246.00		
Change Over Sub	5.00			3251.00		
Shut In Tool	5.00			3256.00		
Sampler	3.00			3259.00		
Hydraulic tool	5.00			3264.00		
Jars	5.00			3269.00		
Safety Joint	2.00			3271.00		
Packer	5.00			3276.00	35.00	Bottom Of Top Packer
Packer	5.00			3281.00		
Stubb	1.00			3282.00		
Perforations	4.00			3286.00		
Recorder	0.00	8673	Inside	3286.00		
Recorder	0.00	6668	Outside	3286.00		
Perforations	15.00			3301.00		
Bullnose	3.00			3304.00	23.00	Bottom Packers & Anchor
Total Tool Length:	**58.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41716 **DST#: 2**

Test Start: 2011.03.04 @ 13:30:17

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	32 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.38 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7300.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Gassy Mud Cut Oil -15%G-45%O-40%M	0.631
0.00	900' Gas In Pipe	0.000

Total Length: 45.00 ft Total Volume: 0.631 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler-555#-500ML Gas,2500ML Muddy Oil-75%O-25%M

DRILL STEM TEST REPORT

GAS RATES

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41716 **DST#: 2**

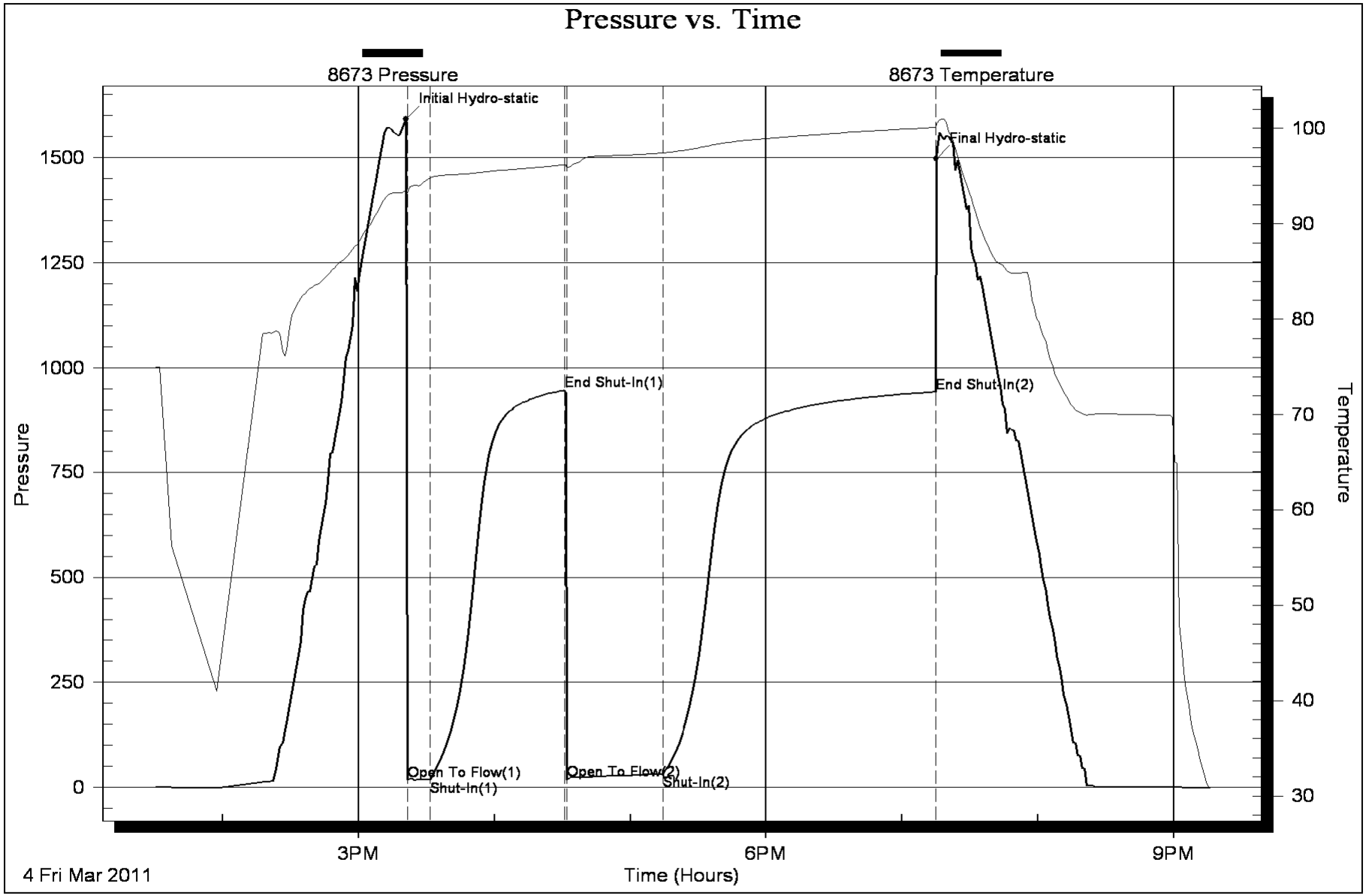
Test Start: 2011.03.04 @ 13:30:17

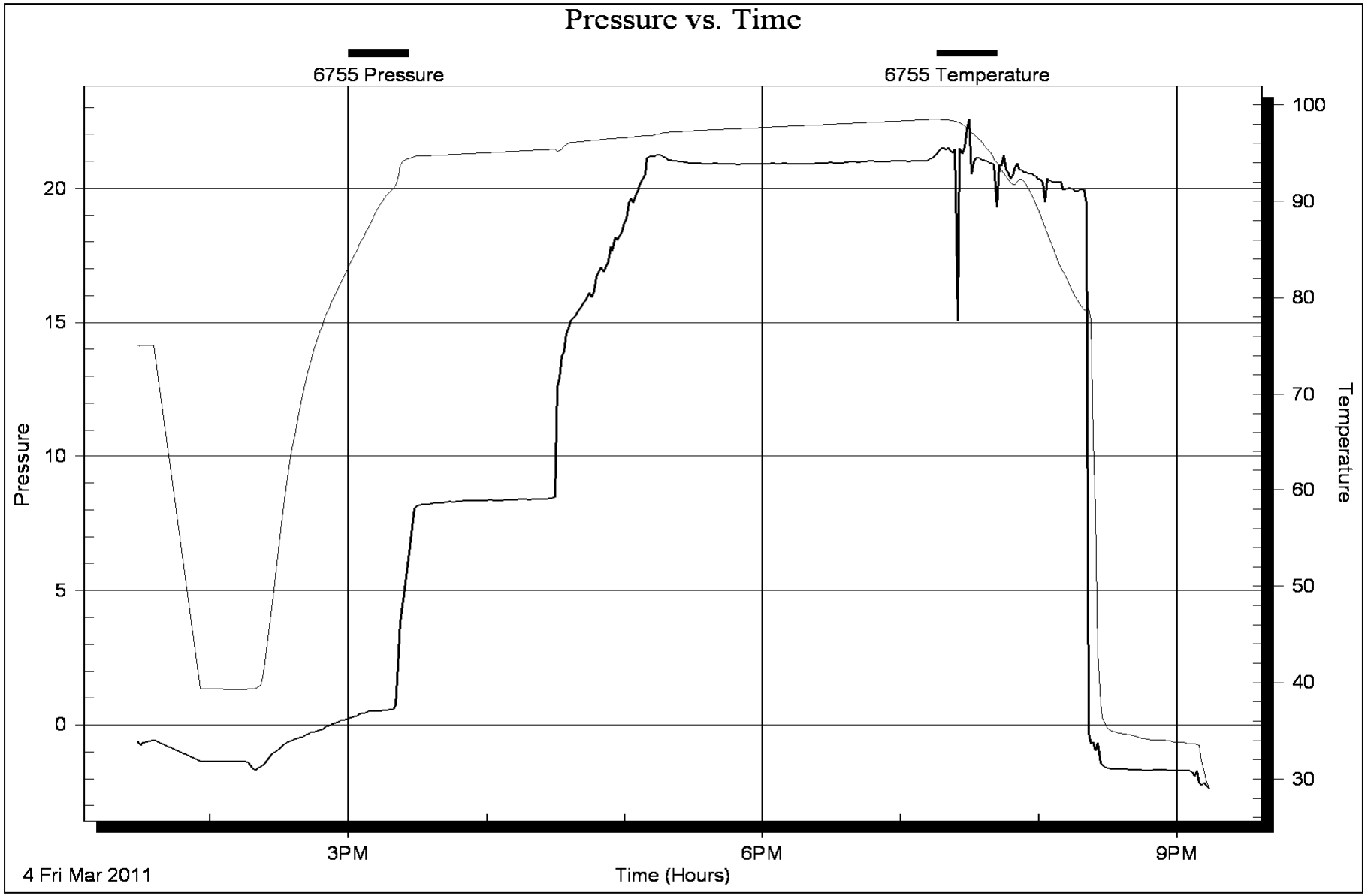
Gas Rates Information

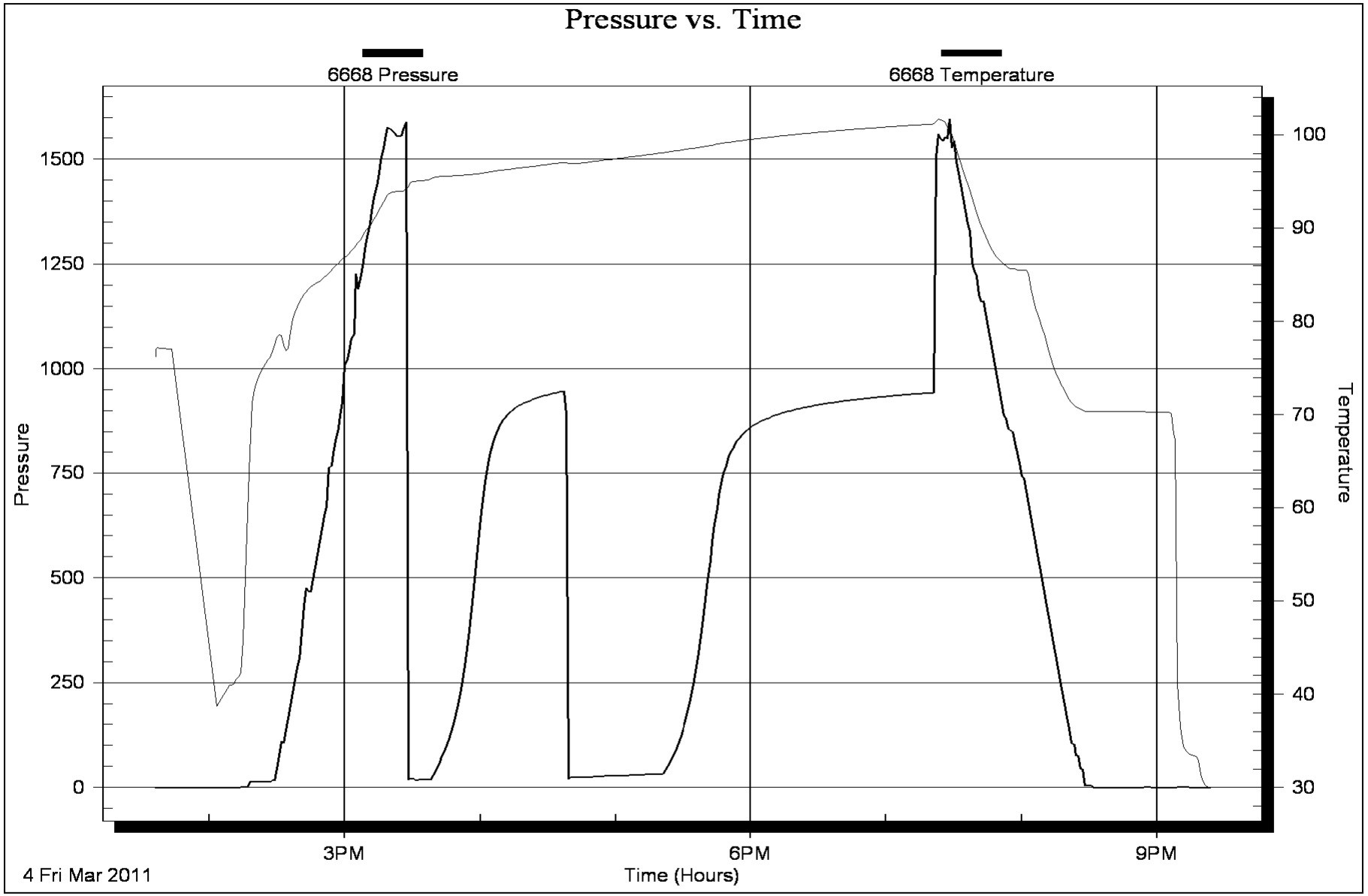
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

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
8673 Pressure
8673 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40
30
3PM
6PM
9PM
4 Fri Mar 2011
Time (Hours)


Pressure vs. Time
6755 Pressure
6755 Temperature
Pressure
Temperature
20
15
10
5
0
100
90
80
70
60
50
40
30
3PM
6PM
9PM
4 Fri Mar 2011
Time (Hours)


Pressure vs. Time
6668 Pressure
6668 Temperature
1500
1250
1000
750
500
250
0
Pressure
100
90
80
70
60
50
40
30
Temperature
3PM
6PM
9PM
4 Fri Mar 2011
Time (Hours)

DRILL STEM TESTING - DATA LISTING

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41716 **DST#: 2**

Test Start: 2011.03.04 @ 13:30:17

Serial # 8673 **Inside**				**Serial # 8673** **Inside**			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	0.19	75.0		79.5	813.16	85.5
	0.2	0.17	75.0		81.0	889.78	85.9
	0.4	0.16	75.0		82.5	950.43	86.1
	0.6	0.15	75.0		84.0	1024.57	86.5
	0.8	0.14	75.0		85.5	1082.77	86.9
	1.0	0.12	75.0		87.0	1102.24	87.3
	1.2	0.10	75.0		88.5	1163.17	87.8
	1.4	0.07	75.0		90.0	1224.33	88.2
	1.6	0.07	75.0		91.5	1254.15	88.7
	1.8	-0.10	75.0		93.0	1315.07	89.4
	7.0	0.13	56.2		94.5	1325.12	89.7
	37.0	0.09	43.2		96.0	1407.37	90.4
	48.0	13.81	78.5		97.5	1494.89	91.0
	49.5	13.88	78.6		99.0	1498.33	91.7
	51.0	16.13	78.6		100.5	1500.01	92.3
	52.5	45.84	78.7		102.0	1569.92	92.9
	54.0	75.98	78.7		103.5	1569.83	93.2
	55.5	106.49	77.2		105.0	1562.21	93.2
	57.0	136.53	76.1		106.5	1554.85	93.2
	58.5	166.07	78.4		108.0	1556.79	93.3
	60.0	226.34	80.4		109.5	1610.94	93.2
	61.5	303.06	81.1		110.0	1587.74	93.5
	63.0	315.93	81.8		110.2	1590.05	93.7
	64.5	376.59	82.4	Initial Hydro-static	110.5	1591.54	93.8
	66.0	449.63	82.7		110.7	1593.43	93.9
	67.5	466.57	83.2	Open To Flow (1)	111.0	17.79	93.1
	69.0	496.74	83.4		111.2	18.53	93.6
	70.5	525.78	83.7		112.7	21.28	93.9
	72.0	587.06	83.7		114.2	18.02	94.0
	73.5	661.31	84.1		115.7	17.60	94.0
	75.0	676.96	84.4		117.2	18.12	94.2
	76.5	737.60	84.8		118.7	18.64	94.5
	78.0	796.60	85.2		120.2	18.66	94.7

Printing every 6 samples

Serial # 8673 Inside				Serial # 8673 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	120.5	18.64	94.7		175.7	941.65	96.1
	120.7	18.63	94.8		177.2	943.43	96.1
Shut-In(1)	121.0	18.76	94.8		178.7	944.95	96.1
	121.2	20.38	94.8		180.0	946.23	96.2
	121.5	22.84	94.8		180.2	946.71	96.2
	121.7	25.29	94.9	End Shut-In(1)	180.5	946.85	96.2
	123.2	40.54	95.0		180.7	946.99	96.2
	124.7	57.07	95.0		181.0	937.43	96.2
	126.2	75.39	95.1		181.2	72.42	95.8
	127.7	95.59	95.1	Open To Flow (2)	181.5	18.41	95.9
	129.2	118.83	95.1		181.7	19.96	95.9
	130.7	145.30	95.1		182.0	21.02	95.9
	132.2	177.54	95.2		182.2	21.67	95.9
	133.7	215.63	95.2		183.7	24.21	96.2
	135.2	261.12	95.2		185.2	23.74	96.3
	136.7	316.70	95.2		186.7	23.74	96.4
	138.2	383.12	95.2		188.2	23.91	96.7
	139.7	459.10	95.3		189.7	24.25	96.9
	141.2	541.50	95.3		191.2	24.09	97.0
	142.7	622.73	95.4		192.7	24.73	97.1
	144.2	694.32	95.4		194.2	25.31	97.1
	145.7	751.59	95.4		195.7	25.59	97.1
	147.2	794.61	95.5		197.2	26.07	97.1
	148.7	826.23	95.5		198.7	26.46	97.1
	150.2	849.25	95.5		200.2	27.30	97.1
	151.7	866.37	95.6		201.7	27.55	97.1
	153.2	879.21	95.6		203.2	27.40	97.2
	154.7	889.23	95.6		204.7	27.78	97.2
	156.2	897.26	95.7		206.2	27.99	97.2
	157.7	903.91	95.7		207.7	28.28	97.2
	159.2	909.46	95.7		209.2	28.75	97.2
	160.7	914.22	95.8		210.7	29.59	97.2
	162.2	918.37	95.8		212.2	29.79	97.2
	163.7	921.60	95.8		213.7	29.71	97.3
	165.2	924.88	95.8		215.2	30.28	97.3
	166.7	928.32	95.9		216.7	30.80	97.3
	168.2	930.92	95.9		218.2	31.00	97.3
	169.7	933.48	95.9		219.7	30.89	97.3
	171.2	935.85	96.0		221.2	31.21	97.4
	172.7	937.95	96.0		222.7	31.76	97.4
	174.2	939.87	96.0		223.2	31.79	97.4

Printing every 6 samples

Serial # 8673 Inside				Serial # 8673 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	223.5	31.79	97.4		280.0	898.83	99.1
Shut-In(2)	223.7	31.84	97.4		281.5	900.94	99.1
	224.0	31.84	97.4		283.0	902.97	99.2
	224.2	34.30	97.4		284.5	904.75	99.2
	224.5	36.69	97.4		286.0	906.56	99.2
	226.0	50.44	97.5		287.5	908.25	99.3
	227.5	64.05	97.5		289.0	909.88	99.3
	229.0	80.68	97.6		290.5	911.51	99.3
	230.5	99.77	97.6		292.0	912.91	99.3
	232.0	121.77	97.6		293.5	914.38	99.4
	233.5	147.41	97.7		295.0	915.61	99.4
	235.0	177.15	97.7		296.5	917.01	99.4
	236.5	212.03	97.8		298.0	918.19	99.4
	238.0	252.63	97.9		299.5	919.35	99.5
	239.5	300.29	97.9		301.0	920.56	99.5
	241.0	356.38	98.0		302.5	921.64	99.5
	242.5	420.81	98.1		304.0	922.78	99.5
	244.0	490.70	98.2		305.5	923.75	99.6
	245.5	560.43	98.2		307.0	924.80	99.6
	247.0	624.41	98.3		308.5	925.81	99.6
	248.5	678.89	98.4		310.0	926.73	99.6
	250.0	722.85	98.4		311.5	927.73	99.7
	251.5	756.95	98.5		313.0	928.43	99.7
	253.0	782.94	98.5		314.5	929.32	99.7
	254.5	803.03	98.6		316.0	930.20	99.7
	256.0	818.50	98.6		317.5	931.06	99.7
	257.5	830.82	98.7		319.0	931.78	99.8
	259.0	840.76	98.7		320.5	932.52	99.8
	260.5	848.99	98.7		322.0	933.29	99.8
	262.0	855.85	98.8		323.5	934.04	99.8
	263.5	861.79	98.8		325.0	934.71	99.8
	265.0	867.04	98.8		326.5	935.39	99.9
	266.5	871.68	98.9		328.0	936.07	99.9
	268.0	875.83	98.9		329.5	936.75	99.9
	269.5	879.51	98.9		331.0	937.36	99.9
	271.0	883.27	98.9		332.5	938.06	99.9
	272.5	886.36	99.0		334.0	938.63	100.0
	274.0	888.97	99.0		335.5	939.33	100.0
	275.5	891.68	99.0		337.0	939.72	100.0
	277.0	894.38	99.1		338.5	940.43	100.0
	278.5	896.63	99.1		340.0	940.91	100.0

Printing every 6 samples

Serial # 8673 Inside				Serial # 8673 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	341.5	941.48	100.1		396.2	375.36	74.9
	343.0	942.31	100.1		397.7	328.17	73.9
	344.0	942.45	100.1		399.2	285.52	73.1
	344.2	942.51	100.1		400.7	245.25	72.5
End Shut-In(2)	344.5	942.56	100.1		402.2	195.91	71.8
Final Hydro-static	344.7	1497.40	100.5		403.7	165.44	71.2
	345.0	1521.57	100.4		405.2	106.31	70.7
	345.2	1513.81	100.7		406.7	76.28	70.4
	346.7	1553.69	100.9		408.2	64.96	70.3
	348.2	1542.56	100.9		409.7	45.44	70.1
	349.7	1553.61	99.8		411.2	3.75	69.9
	351.2	1534.47	99.3		412.7	3.95	70.0
	352.7	1476.64	98.1		414.2	3.98	70.1
	354.2	1440.15	97.0		415.7	0.01	70.2
	355.7	1426.73	95.8		417.2	0.03	70.1
	357.2	1406.84	94.6		418.7	0.02	70.1
	358.7	1336.87	93.8		420.2	0.05	70.1
	360.2	1315.59	92.3		421.7	0.03	70.1
	361.7	1284.02	91.2		423.2	0.03	70.1
	363.2	1200.03	90.3		424.7	0.05	70.1
	364.7	1194.08	89.1		426.2	0.05	70.1
	366.2	1121.51	88.4		427.7	0.03	70.1
	367.7	1102.61	87.5		429.2	0.00	70.1
	369.2	1070.81	86.9		430.7	0.02	70.1
	370.7	1033.89	86.3		432.2	0.04	70.0
	372.2	980.35	85.8		433.7	0.04	70.0
	373.7	915.76	85.7		435.2	0.07	70.0
	375.2	889.71	85.2		436.7	0.12	70.0
	376.7	858.06	84.9		438.2	0.14	70.0
	378.2	853.21	84.8		439.7	0.07	70.0
	379.7	848.75	84.8		441.2	0.00	70.0
	381.2	783.57	84.8		442.7	-0.02	70.0
	382.7	767.63	84.9		444.2	-0.04	70.0
	384.2	707.44	84.9		445.7	-0.05	70.0
	385.7	676.63	84.5		447.2	-0.02	70.0
	387.2	625.92	81.8		448.7	0.10	69.7
	388.7	583.68	80.4		450.2	0.08	64.8
	390.2	555.26	79.6		451.7	0.53	50.2
	391.7	504.93	78.4		453.2	-0.15	44.5
	393.2	465.31	77.5		454.7	-0.58	41.6
	394.7	402.03	76.2		456.2	-0.67	39.1

Printing every 6 samples

Serial # 8673 Inside				Serial # 6755 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	457.7	-0.75	37.1				
	459.2	-0.82	35.5				
	460.7	-0.84	34.2				
	462.2	-0.90	32.6				
	463.7	-0.95	31.6				
	465.2	-0.90	30.7				
	465.7	-1.05	30.4				

Printing every 5 samples

DRILL STEM TESTING - DATA LISTING

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41716 **DST#: 2**

Test Start: 2011.03.04 @ 13:30:17

Serial # 6755	**Fluid**			**Serial # 6755**	**Fluid**		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.60	75.0		71.2	-0.45	69.8
	0.2	-0.64	75.0		72.5	-0.40	71.1
	0.3	-0.68	75.0		73.7	-0.34	72.3
	0.5	-0.70	75.0		75.0	-0.29	73.4
	0.7	-0.70	75.0		76.2	-0.27	74.5
	0.8	-0.69	75.0		77.5	-0.23	75.4
	1.0	-0.70	75.0		78.7	-0.21	76.3
	1.2	-0.73	75.0		80.0	-0.17	77.1
	1.3	-0.75	75.0		81.2	-0.11	78.0
	1.5	-0.74	75.0		82.5	-0.05	78.7
	1.7	-0.70	75.0		83.7	0.01	79.4
	1.8	-0.68	75.0		85.0	0.04	80.0
	7.0	-0.57	75.0		86.2	0.09	80.7
	32.0	-1.31	39.3		87.5	0.14	81.3
	47.5	-1.36	39.3		88.7	0.16	81.9
	48.7	-1.50	39.4		90.0	0.20	82.5
	50.0	-1.62	39.4		91.2	0.21	83.1
	51.2	-1.68	39.3		92.5	0.26	83.7
	52.5	-1.61	39.5		93.7	0.30	84.3
	53.7	-1.52	40.2		95.0	0.34	84.9
	55.0	-1.42	42.1		96.2	0.39	85.5
	56.2	-1.28	44.4		97.5	0.42	86.1
	57.5	-1.16	46.8		98.7	0.46	86.7
	58.7	-1.04	49.1		100.0	0.50	87.3
	60.0	-0.97	51.7		101.2	0.52	87.9
	61.2	-0.90	54.3		102.5	0.52	88.6
	62.5	-0.80	56.7		103.7	0.50	89.1
	63.7	-0.72	59.1		105.0	0.51	89.6
	65.0	-0.65	61.2		106.2	0.52	90.1
	66.2	-0.60	63.3		107.5	0.53	90.5
	67.5	-0.56	65.1		108.7	0.52	90.8
	68.7	-0.53	66.8		110.0	0.56	91.1
	70.0	-0.49	68.4		111.2	0.59	91.4

Printing every 5 samples

Serial # 6755	Fluid			Serial # 6755	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	112.5	1.46	92.1		163.7	8.37	95.2
	113.7	3.96	93.5		165.0	8.38	95.2
	115.0	4.63	94.2		166.2	8.38	95.2
	116.2	5.54	94.4		167.5	8.39	95.2
	117.5	6.23	94.5		168.7	8.39	95.3
	118.7	7.10	94.5		170.0	8.38	95.3
	120.0	8.04	94.6		171.2	8.39	95.3
	121.2	8.16	94.7		172.5	8.39	95.3
	122.5	8.18	94.7		173.7	8.41	95.3
	123.7	8.20	94.7		175.0	8.40	95.3
	125.0	8.22	94.7		176.2	8.40	95.4
	126.2	8.21	94.7		177.5	8.40	95.4
	127.5	8.23	94.7		178.7	8.42	95.4
	128.7	8.24	94.8		180.0	8.43	95.4
	130.0	8.25	94.8		181.2	8.46	95.4
	131.2	8.27	94.8		182.5	12.89	95.2
	132.5	8.27	94.8		183.7	13.24	95.4
	133.7	8.28	94.8		185.0	13.91	95.7
	135.0	8.29	94.8		186.2	14.66	96.0
	136.2	8.30	94.8		187.5	14.97	96.1
	137.5	8.29	94.9		188.7	14.70	96.1
	138.7	8.30	94.9		190.0	15.28	96.1
	140.0	8.31	94.9		191.2	15.43	96.2
	141.2	8.32	94.9		192.5	15.24	96.2
	142.5	8.32	94.9		193.7	15.78	96.2
	143.7	8.33	94.9		195.0	15.95	96.3
	145.0	8.33	95.0		196.2	16.17	96.3
	146.2	8.33	95.0		197.5	16.09	96.3
	147.5	8.33	95.0		198.7	16.64	96.3
	148.7	8.34	95.0		200.0	16.87	96.4
	150.0	8.35	95.0		201.2	16.80	96.4
	151.2	8.35	95.0		202.5	17.35	96.4
	152.5	8.35	95.0		203.7	17.23	96.5
	153.7	8.36	95.1		205.0	17.83	96.5
	155.0	8.34	95.1		206.2	17.61	96.5
	156.2	8.34	95.1		207.5	18.27	96.5
	157.5	8.33	95.1		208.7	18.51	96.6
	158.7	8.36	95.1		210.0	18.36	96.6
	160.0	8.37	95.1		211.2	18.78	96.6
	161.2	8.38	95.2		212.5	18.98	96.6
	162.5	8.37	95.2		213.7	19.59	96.7

Printing every 5 samples

Serial # 6755	Fluid			Serial # 6755	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	215.0	19.47	96.7		266.2	20.90	97.6
	216.2	19.77	96.7		267.5	20.89	97.6
	217.5	20.02	96.7		268.7	20.89	97.6
	218.7	20.36	96.7		270.0	20.89	97.6
	220.0	20.52	96.8		271.2	20.89	97.7
	221.2	21.11	96.8		272.5	20.89	97.7
	222.5	21.19	96.8		273.7	20.89	97.7
	223.7	21.18	96.9		275.0	20.91	97.7
	225.0	21.24	97.0		276.2	20.92	97.7
	226.2	21.24	97.0		277.5	20.91	97.7
	227.5	21.21	97.1		278.7	20.90	97.7
	228.7	21.14	97.1		280.0	20.91	97.8
	230.0	21.07	97.1		281.2	20.92	97.8
	231.2	21.05	97.2		282.5	20.90	97.8
	232.5	21.02	97.2		283.7	20.90	97.8
	233.7	21.02	97.2		285.0	20.90	97.8
	235.0	20.99	97.2		286.2	20.90	97.8
	236.2	20.98	97.2		287.5	20.91	97.8
	237.5	20.96	97.3		288.7	20.90	97.8
	238.7	20.94	97.3		290.0	20.90	97.9
	240.0	20.93	97.3		291.2	20.90	97.9
	241.2	20.92	97.3		292.5	20.91	97.9
	242.5	20.92	97.3		293.7	20.92	97.9
	243.7	20.92	97.3		295.0	20.92	97.9
	245.0	20.92	97.4		296.2	20.91	97.9
	246.2	20.90	97.4		297.5	20.92	98.0
	247.5	20.89	97.4		298.7	20.93	98.0
	248.7	20.90	97.4		300.0	20.95	98.0
	250.0	20.91	97.4		301.2	20.94	98.0
	251.2	20.91	97.4		302.5	20.94	98.0
	252.5	20.91	97.4		303.7	20.93	98.0
	253.7	20.90	97.5		305.0	20.93	98.0
	255.0	20.90	97.5		306.2	20.94	98.0
	256.2	20.90	97.5		307.5	20.95	98.1
	257.5	20.91	97.5		308.7	20.97	98.1
	258.7	20.90	97.5		310.0	20.97	98.1
	260.0	20.88	97.5		311.2	20.97	98.1
	261.2	20.88	97.5		312.5	20.96	98.1
	262.5	20.88	97.6		313.7	20.96	98.1
	263.7	20.89	97.6		315.0	20.97	98.2
	265.0	20.89	97.6		316.2	20.99	98.2

Printing every 5 samples

Serial # 6755	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	317.5	21.00	98.2
	318.7	21.00	98.2
	320.0	20.99	98.2
	321.2	20.99	98.2
	322.5	20.97	98.2
	323.7	20.97	98.3
	325.0	20.97	98.3
	326.2	20.99	98.3
	327.5	20.99	98.3
	328.7	21.00	98.3
	330.0	21.00	98.3
	331.2	21.01	98.3
	332.5	21.01	98.4
	333.7	20.99	98.4
	335.0	20.99	98.4
	336.2	21.00	98.4
	337.5	21.01	98.4
	338.7	21.00	98.4
	340.0	20.99	98.4
	341.2	21.00	98.5
	342.5	21.02	98.5
	343.7	21.08	98.5
	345.0	21.12	98.5
	346.2	21.23	98.5
	347.5	21.35	98.5
	348.7	21.47	98.5
	350.0	21.50	98.5
	351.2	20.82	98.4
	352.5	21.48	98.4
	353.7	21.34	98.4
	355.0	21.45	98.3
	356.2	21.45	98.2
	357.5	21.58	98.1
	358.7	22.98	97.9
	360.0	22.18	97.6
	361.2	21.29	97.3
	362.5	28.18	97.0
	363.7	21.13	96.8
	365.0	21.13	96.5
	366.2	21.07	96.2
	367.5	20.48	95.9

Serial # 6755	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	368.7	19.66	95.5
	370.0	20.95	95.2
	371.2	20.92	94.7
	372.5	20.90	94.2
	373.7	17.30	93.7
	375.0	20.84	93.3
	376.2	20.56	92.8
	377.5	20.65	92.4
	378.7	20.40	92.0
	380.0	20.47	91.7
	381.2	21.81	91.8
	382.5	21.27	92.1
	383.7	20.68	92.2
	385.0	20.58	92.1
	386.2	20.61	91.7
	387.5	20.54	91.0
	388.7	19.44	90.4
	390.0	20.46	89.7
	391.2	20.30	89.0
	392.5	20.29	88.3
	393.7	21.12	87.5
	395.0	20.37	86.7
	396.2	20.41	85.9
	397.5	20.23	85.2
	398.7	20.21	84.4
	400.0	20.22	83.7
	401.2	20.76	83.0
	402.5	20.00	82.5
	403.7	20.00	81.7
	405.0	20.01	81.1
	406.2	19.94	80.5
	407.5	19.91	79.9
	408.7	19.93	79.4
	410.0	19.96	79.0
	411.2	20.10	78.7
	412.5	4.93	78.5
	413.7	-0.92	79.3
	415.0	-0.66	65.3
	416.2	-1.04	56.7
	417.5	-0.96	39.4
	418.7	-1.51	36.7

Printing every 5 samples

Serial # 6755 Fluid				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	420.0	-1.57	35.7				
	421.2	-1.60	35.2				
	422.5	-1.63	35.0				
	423.7	-1.64	34.9				
	425.0	-1.66	34.8				
	426.2	-1.64	34.8				
	427.5	-1.65	34.7				
	428.7	-1.65	34.7				
	430.0	-1.65	34.6				
	431.2	-1.67	34.6				
	432.5	-1.68	34.5				
	433.7	-1.69	34.4				
	435.0	-1.68	34.3				
	436.2	-1.70	34.2				
	437.5	-1.71	34.2				
	438.7	-1.70	34.1				
	440.0	-1.70	34.1				
	441.2	-1.68	34.1				
	442.5	-1.67	34.0				
	443.7	-1.67	34.0				
	445.0	-1.69	34.1				
	446.2	-1.69	34.0				
	447.5	-1.69	34.0				
	448.7	-1.71	33.9				
	450.0	-1.70	33.8				
	451.2	-1.70	33.8				
	452.5	-1.69	33.8				
	453.7	-1.70	33.8				
	455.0	-1.70	33.8				
	456.2	-1.71	33.7				
	457.5	-1.72	33.7				
	458.7	-1.86	33.7				
	460.0	-1.70	33.6				
	461.2	-2.18	33.2				
	462.5	-2.15	31.1				
	463.7	-2.15	30.1				
	465.0	-2.35	29.1				
	465.5	-2.43	28.8				

Printing every 5 samples

DRILL STEM TESTING - DATA LISTING

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41716 **DST#: 2**

Test Start: 2011.03.04 @ 13:30:17

Serial # 6668	**Outside**		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.64	76.3
	0.2	-0.70	76.8
	0.3	-0.75	77.1
	0.5	-0.80	77.2
	0.7	-0.82	77.2
	0.8	-0.82	77.2
	1.0	-0.83	77.2
	1.2	-0.84	77.2
	1.3	-0.85	77.1
	1.5	-0.87	77.1
	1.7	-0.87	77.1
	1.8	-0.88	77.1
	7.0	-0.81	77.1
	32.0	-0.46	38.7
	33.2	-0.90	40.9
	34.5	-0.88	41.1
	35.7	-0.86	41.6
	37.0	-0.74	41.9
	38.2	-0.18	43.5
	39.5	-0.49	50.9
	40.7	-0.45	59.4
	42.0	12.96	68.1
	43.2	13.31	72.1
	44.5	13.47	73.3
	45.7	13.48	74.1
	47.0	13.51	74.8
	48.2	13.52	75.3
	49.5	13.56	75.8
	50.7	13.51	76.2
	52.0	15.85	77.1
	53.2	45.36	78.0
	54.5	77.12	78.5
	55.7	110.13	78.5

Serial # 6668	**Outside**		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	57.0	106.12	77.3
	58.2	136.03	77.0
	59.5	196.09	78.5
	60.7	226.13	80.3
	62.0	256.92	81.1
	63.2	316.15	81.7
	64.5	346.36	82.4
	65.7	432.31	82.9
	67.0	436.58	83.2
	68.2	466.33	83.6
	69.5	539.07	83.8
	70.7	526.11	84.1
	72.0	556.31	84.2
	73.2	607.73	84.4
	74.5	647.00	84.7
	75.7	668.20	84.9
	77.0	737.37	85.2
	78.2	767.94	85.6
	79.5	872.55	86.0
	80.7	858.67	86.2
	82.0	917.41	86.6
	83.2	949.95	86.7
	84.5	1008.08	87.0
	85.7	1041.15	87.3
	87.0	1150.40	87.7
	88.2	1132.63	88.0
	89.5	1237.42	88.4
	90.7	1223.96	88.8
	92.0	1335.49	89.3
	93.2	1329.42	89.7
	94.5	1347.26	90.2
	95.7	1376.18	90.5
	97.0	1438.74	91.0

Printing every 5 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.2	1493.30	91.6		149.5	827.54	96.1
	99.5	1498.66	92.1		150.7	846.96	96.1
	100.7	1527.79	92.8		152.0	861.87	96.2
	102.0	1553.68	93.3		153.2	873.79	96.2
	103.2	1575.97	93.7		154.5	883.22	96.2
	104.5	1568.05	93.8		155.7	891.07	96.3
	105.7	1561.62	93.9		157.0	897.54	96.3
	107.0	1555.62	93.9		158.2	903.07	96.3
	108.2	1556.65	93.9		159.5	907.76	96.4
	109.5	1513.12	93.9		160.7	912.08	96.4
	110.7	1588.34	94.3		162.0	915.74	96.5
	112.0	18.54	94.6		163.2	919.11	96.5
	113.2	21.38	94.9		164.5	921.55	96.5
	114.5	17.32	95.0		165.7	924.37	96.6
	115.7	17.16	95.1		167.0	927.01	96.6
	117.0	18.05	95.1		168.2	929.53	96.7
	118.2	18.29	95.1		169.5	931.80	96.7
	119.5	18.51	95.1		170.7	933.98	96.7
	120.7	18.50	95.2		172.0	935.79	96.8
	122.0	21.02	95.3		173.2	937.40	96.8
	123.2	33.47	95.4		174.5	939.10	96.8
	124.5	46.56	95.5		175.7	940.68	96.9
	125.7	60.66	95.5		177.0	942.14	96.9
	127.0	76.19	95.5		178.2	943.52	96.9
	128.2	92.80	95.6		179.5	944.81	97.0
	129.5	111.65	95.6		180.7	946.04	97.0
	130.7	132.69	95.6		182.0	34.08	96.8
	132.0	156.86	95.6		183.2	22.68	96.9
	133.2	185.38	95.6		184.5	23.97	96.9
	134.5	217.84	95.6		185.7	23.62	96.9
	135.7	255.62	95.7		187.0	23.50	96.9
	137.0	299.91	95.7		188.2	23.61	97.0
	138.2	352.18	95.7		189.5	23.82	97.0
	139.5	411.50	95.7		190.7	23.73	97.0
	140.7	477.00	95.8		192.0	23.93	97.1
	142.0	546.04	95.8		193.2	24.43	97.1
	143.2	613.99	95.9		194.5	24.81	97.1
	144.5	675.58	95.9		195.7	25.20	97.2
	145.7	727.85	95.9		197.0	25.57	97.2
	147.0	769.65	96.0		198.2	26.19	97.3
	148.2	802.51	96.0		199.5	26.43	97.3

Printing every 5 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	200.7	26.79	97.3		252.0	753.85	99.1
	202.0	27.32	97.4		253.2	776.66	99.1
	203.2	27.52	97.4		254.5	794.97	99.2
	204.5	27.78	97.4		255.7	809.69	99.2
	205.7	27.63	97.5		257.0	821.59	99.3
	207.0	27.87	97.5		258.2	831.54	99.3
	208.2	28.11	97.6		259.5	839.88	99.4
	209.5	28.19	97.6		260.7	846.87	99.4
	210.7	29.33	97.6		262.0	853.01	99.4
	212.0	29.13	97.7		263.2	858.34	99.5
	213.2	29.68	97.7		264.5	863.08	99.5
	214.5	29.51	97.8		265.7	867.33	99.6
	215.7	29.97	97.8		267.0	871.22	99.6
	217.0	30.56	97.8		268.2	874.71	99.6
	218.2	30.39	97.9		269.5	877.92	99.7
	219.5	30.93	97.9		270.7	880.79	99.7
	220.7	30.78	98.0		272.0	883.96	99.7
	222.0	31.08	98.0		273.2	886.20	99.8
	223.2	31.51	98.0		274.5	888.86	99.8
	224.5	31.55	98.1		275.7	891.00	99.8
	225.7	42.00	98.1		277.0	893.16	99.9
	227.0	53.23	98.2		278.2	895.08	99.9
	228.2	64.82	98.2		279.5	897.06	99.9
	229.5	78.55	98.2		280.7	898.99	100.0
	230.7	94.19	98.3		282.0	900.66	100.0
	232.0	111.35	98.3		283.2	902.35	100.0
	233.2	131.14	98.4		284.5	903.84	100.0
	234.5	153.74	98.4		285.7	905.49	100.1
	235.7	179.22	98.5		287.0	906.82	100.1
	237.0	208.18	98.5		288.2	908.28	100.1
	238.2	240.87	98.5		289.5	909.65	100.2
	239.5	278.39	98.6		290.7	910.92	100.2
	240.7	321.29	98.6		292.0	912.17	100.2
	242.0	370.49	98.7		293.2	913.45	100.2
	243.2	425.06	98.7		294.5	914.55	100.3
	244.5	483.29	98.8		295.7	915.64	100.3
	245.7	541.89	98.8		297.0	916.77	100.3
	247.0	597.49	98.9		298.2	917.80	100.3
	248.2	647.34	99.0		299.5	918.73	100.4
	249.5	689.99	99.0		300.7	919.89	100.4
	250.7	725.25	99.1		302.0	920.64	100.4

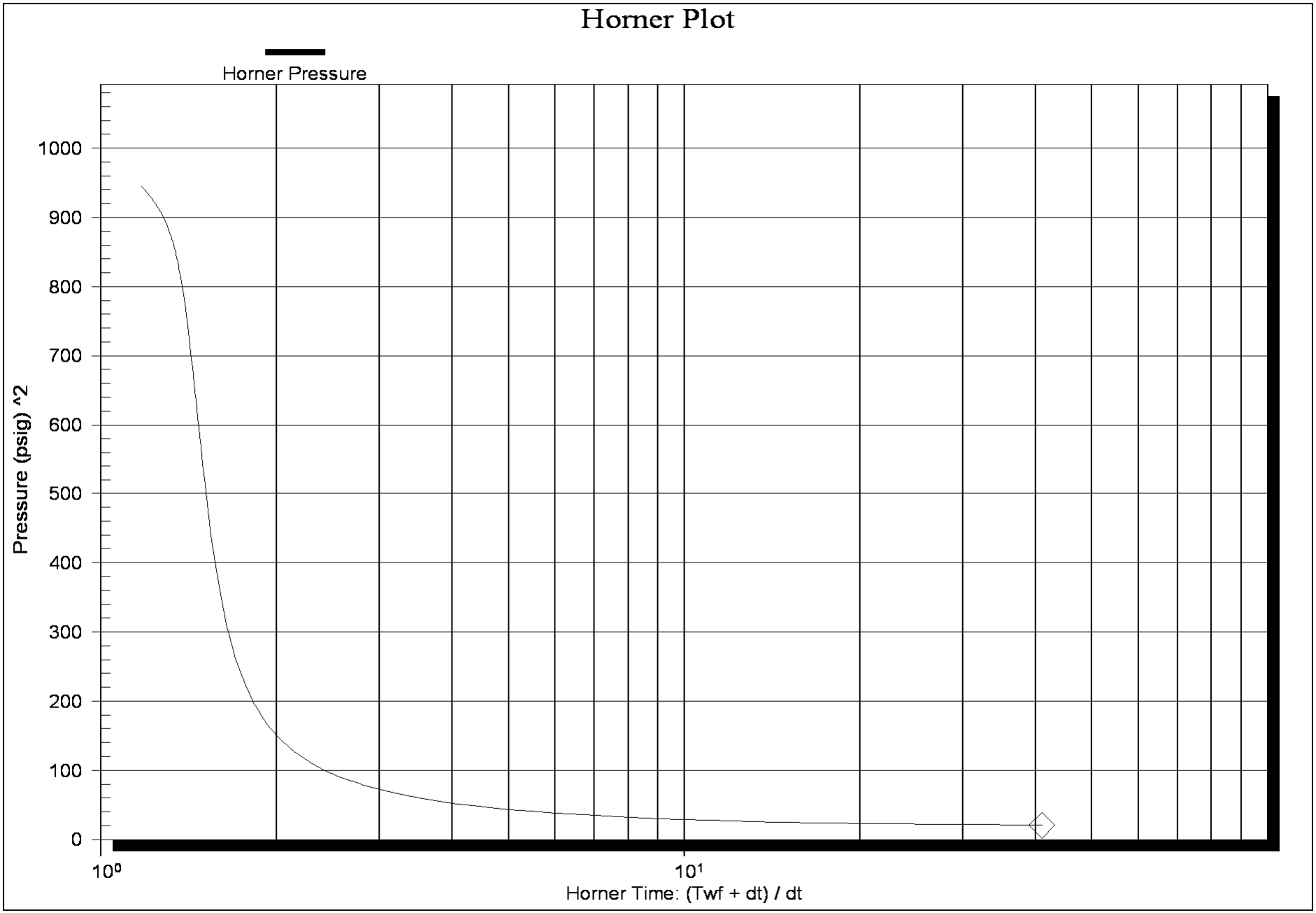
Printing every 5 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	303.2	921.56	100.5		354.5	1494.91	98.5
	304.5	922.57	100.5		355.7	1466.56	97.7
	305.7	923.48	100.5		357.0	1435.67	96.7
	307.0	924.19	100.5		358.2	1364.80	95.8
	308.2	925.17	100.6		359.5	1322.13	95.0
	309.5	925.99	100.6		360.7	1328.16	94.0
	310.7	926.65	100.6		362.0	1285.54	92.9
	312.0	927.41	100.6		363.2	1254.89	91.9
	313.2	928.22	100.6		364.5	1223.23	91.0
	314.5	928.95	100.7		365.7	1159.57	90.2
	315.7	929.56	100.7		367.0	1118.91	89.6
	317.0	930.33	100.7		368.2	1124.99	88.9
	318.2	930.96	100.7		369.5	1072.53	88.2
	319.5	931.61	100.8		370.7	1041.19	87.6
	320.7	932.34	100.8		372.0	1009.96	87.1
	322.0	932.86	100.8		373.2	953.26	86.7
	323.2	933.46	100.8		374.5	903.25	86.5
	324.5	934.23	100.8		375.7	889.77	86.1
	325.7	934.72	100.9		377.0	858.93	85.8
	327.0	935.22	100.9		378.2	854.98	85.7
	328.2	935.85	100.9		379.5	851.22	85.6
	329.5	936.42	100.9		380.7	823.24	85.6
	330.7	936.96	100.9		382.0	783.07	85.5
	332.0	937.52	101.0		383.2	767.28	85.5
	333.2	938.03	101.0		384.5	736.88	85.5
	334.5	938.54	101.0		385.7	705.82	85.5
	335.7	938.96	101.0		387.0	643.37	84.9
	337.0	939.46	101.0		388.2	619.80	83.1
	338.2	939.98	101.1		389.5	586.45	81.7
	339.5	940.44	101.1		390.7	555.04	80.8
	340.7	940.90	101.1		392.0	524.81	79.9
	342.0	941.35	101.1		393.2	461.99	79.1
	343.2	941.79	101.1		394.5	441.48	78.1
	344.5	942.34	101.2		395.7	404.98	76.8
	345.7	1504.07	101.4		397.0	375.14	75.7
	347.0	1559.33	101.6		398.2	344.55	74.9
	348.2	1546.02	101.6		399.5	285.32	74.2
	349.5	1569.06	101.5		400.7	255.10	73.5
	350.7	1549.93	100.8		402.0	225.32	72.8
	352.0	1535.70	100.4		403.2	195.15	72.3
	353.2	1525.38	99.6		404.5	151.61	71.8

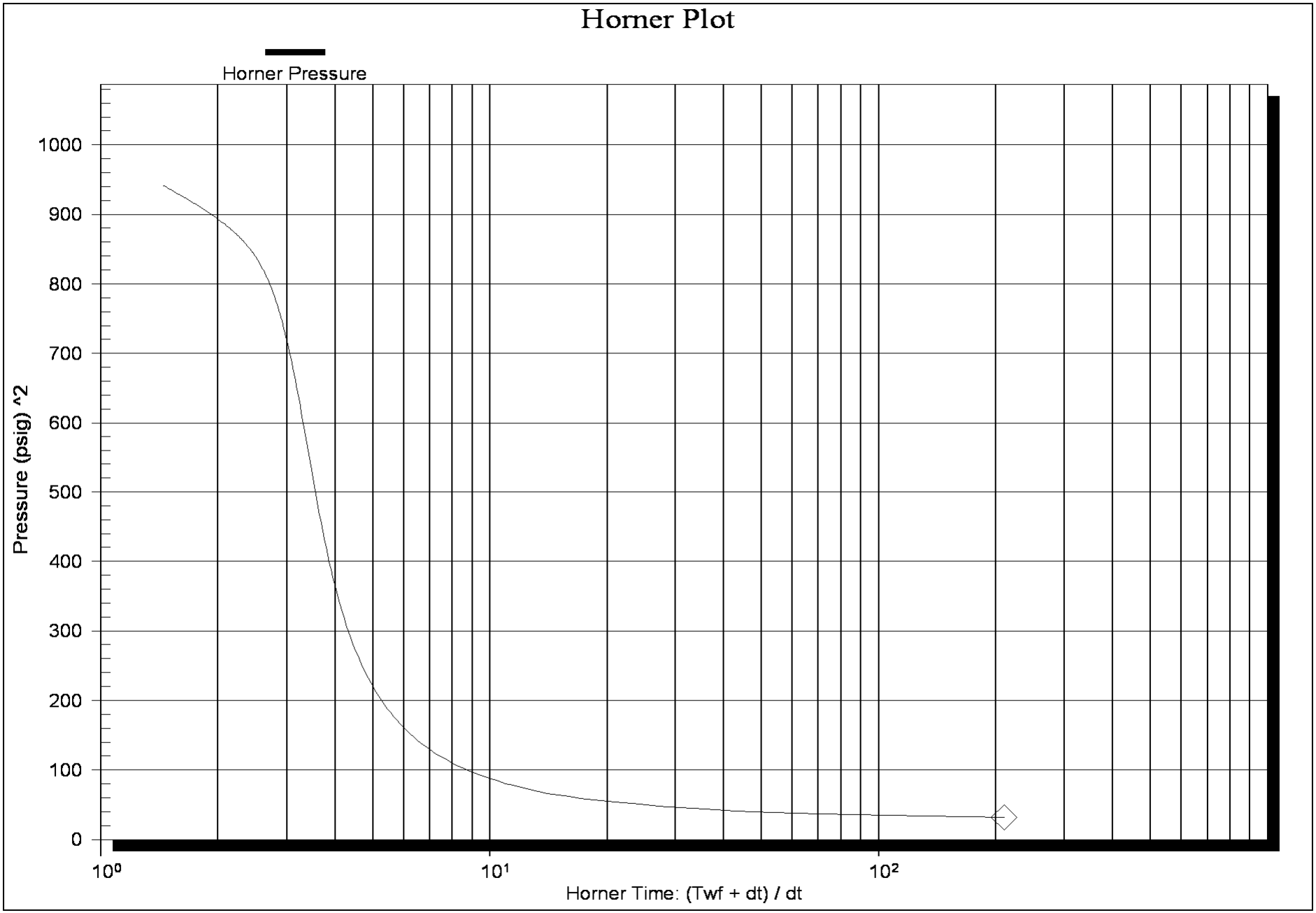
Printing every 5 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	405.7	105.45	71.3		457.0	-0.61	33.7
	407.0	78.34	71.0		458.2	-0.63	33.5
	408.2	75.41	70.8		459.5	-0.69	33.4
	409.5	45.46	70.6		460.7	-0.75	33.3
	410.7	43.46	70.5		462.0	-0.76	32.6
	412.0	3.45	70.3		463.2	-0.76	31.0
	413.2	3.52	70.3		464.5	-0.71	30.3
	414.5	3.53	70.4		465.7	-0.80	30.1
	415.7	-1.16	70.3		466.7	-0.79	30.0
	417.0	-1.15	70.4				
	418.2	-1.11	70.4				
	419.5	-1.13	70.4				
	420.7	-1.14	70.4				
	422.0	-1.15	70.4				
	423.2	-1.14	70.4				
	424.5	-1.14	70.4				
	425.7	-1.13	70.4				
	427.0	-1.15	70.4				
	428.2	-1.17	70.4				
	429.5	-1.18	70.3				
	430.7	-1.14	70.3				
	432.0	-1.12	70.3				
	433.2	-1.13	70.3				
	434.5	-1.14	70.3				
	435.7	-1.14	70.3				
	437.0	-1.12	70.3				
	438.2	-0.31	70.3				
	439.5	-0.29	70.3				
	440.7	-0.26	70.3				
	442.0	-1.12	70.3				
	443.2	-1.14	70.3				
	444.5	-1.16	70.3				
	445.7	-1.16	70.3				
	447.0	-1.15	70.3				
	448.2	-1.12	70.3				
	449.5	-1.01	70.2				
	450.7	-0.92	67.9				
	452.0	-0.50	63.3				
	453.2	-0.27	37.9				
	454.5	-0.53	35.1				
	455.7	-0.59	34.2				

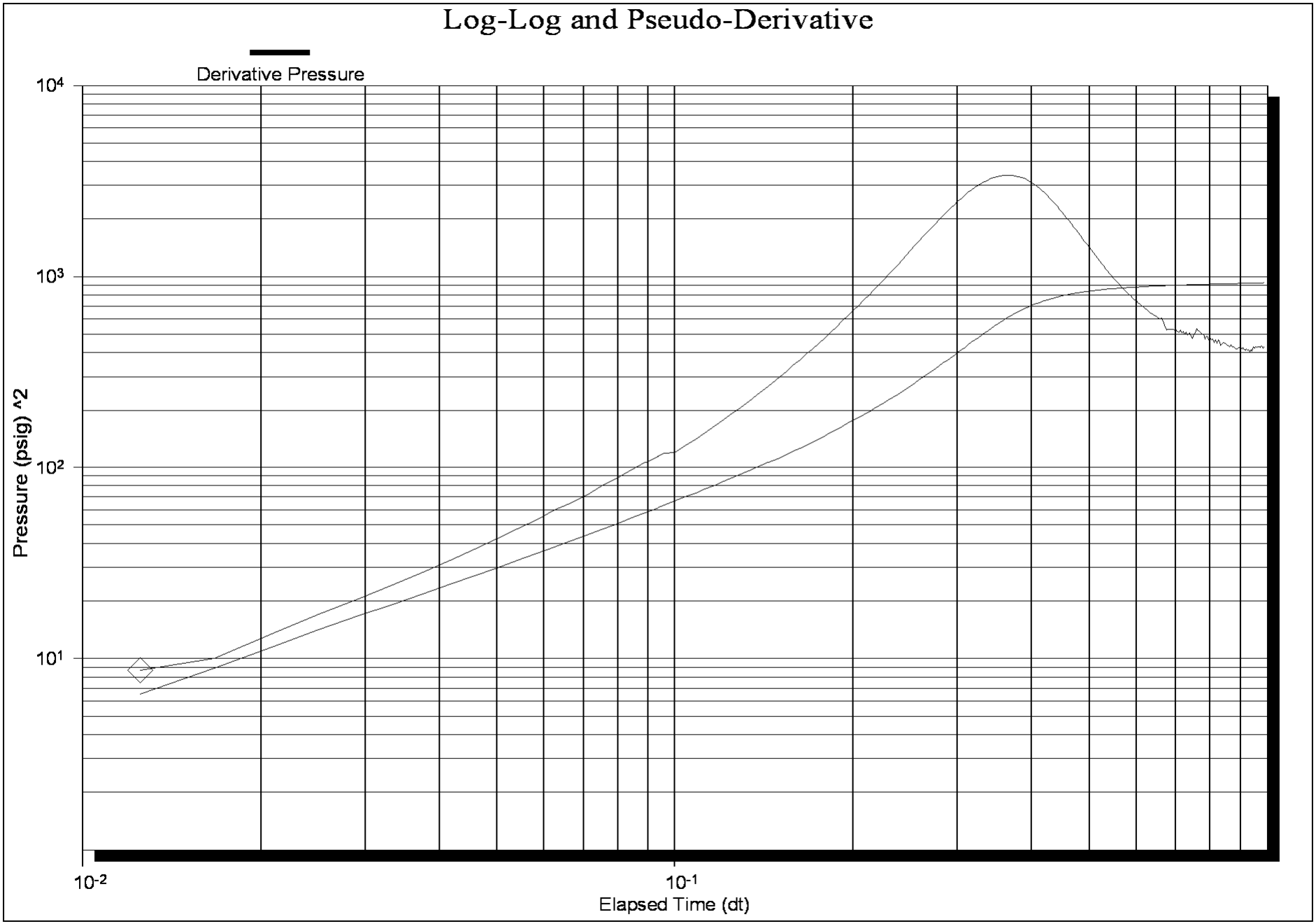
Printing every 5 samples

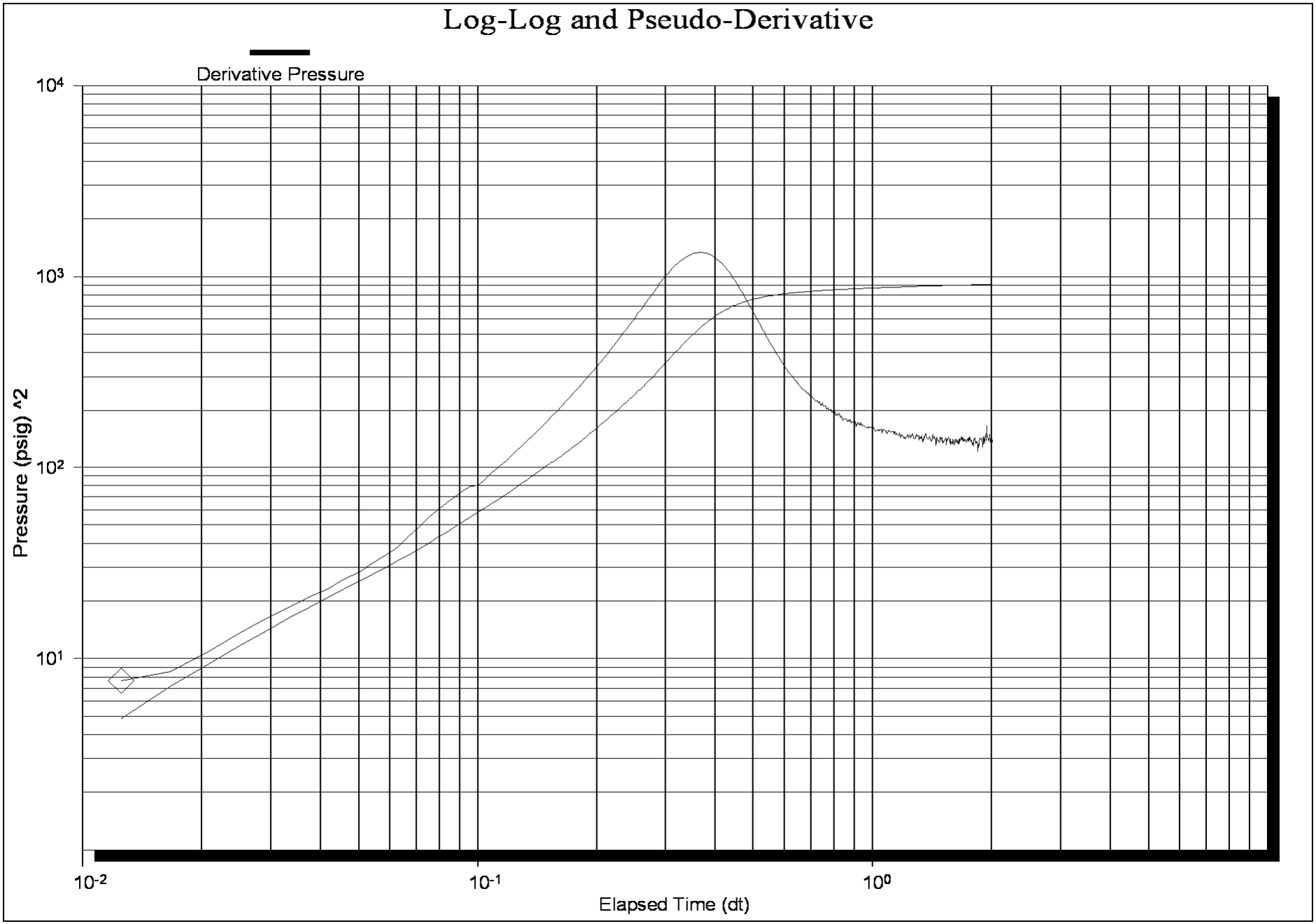


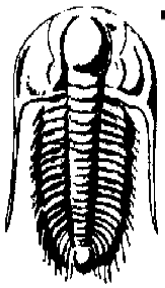
Serial Number: 8673 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 1



Serial Number: 8673 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 2


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (psig) ^2
10^-2
10^-1
Elapsed Time (dt)


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (psig) ^2
10^-2
10^-1
10^0
Elapsed Time (dt)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary jr & Associates**

1515 Wynkoop
Suite 700
Denver, CO. 80202

ATTN: Neil Sharp

2-16s-17w-Rush

Younger-Dome #1-2

Start Date: 2011.03.05 @ 16:16:07
End Date: 2011.03.06 @ 01:37:52
Job Ticket #: 41717 DST #: 3

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

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41717 **DST#: 3**

Test Start: 2011.03.05 @ 16:16:07

GENERAL INFORMATION:

Formation: **H-I-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:58:07
Time Test Ended: 01:37:52

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3346.00 ft (KB) To 3405.00 ft (KB) (TVD)
Total Depth: 3405.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

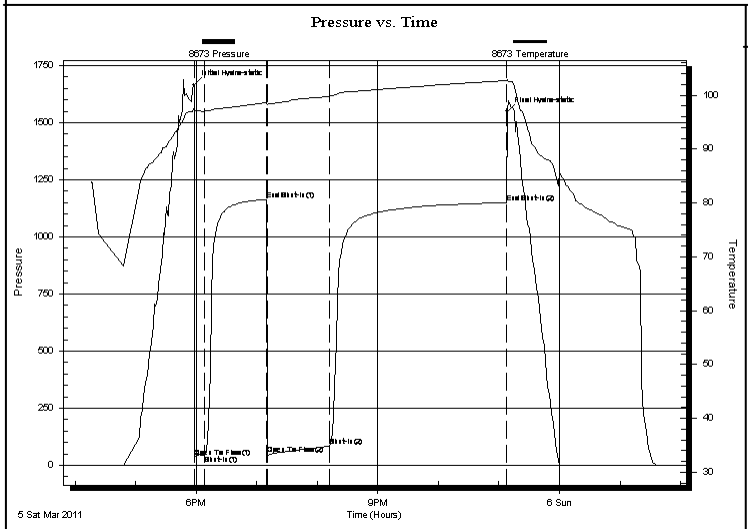
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8673 **Inside**

Press@RunDepth: 84.35 psig @ 3383.00 ft (KB)
Start Date: 2011.03.05 End Date: 2011.03.06
Start Time: 16:16:09 End Time: 01:37:52

Capacity: 8000.00 psig
Last Calib.: 2011.03.06
Time On Btm: 2011.03.05 @ 17:57:52
Time Off Btm: 2011.03.05 @ 23:08:07

TEST COMMENT: IFP-10 Min-Fair Blow ,Built to 5-1/2"
ISI-60 Min-Dead
FFP-60 Min-Good Blow ,BOB in 14 Min.
FSI-180 Min-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1665.67	97.58	Initial Hydro-static
1	35.12	96.89	Open To Flow (1)
11	43.07	97.02	Shut-In(1)
72	1164.46	98.63	End Shut-In(1)
73	47.48	98.27	Open To Flow (2)
135	84.35	99.81	Shut-In(2)
310	1149.54	102.72	End Shut-In(2)
311	1549.96	102.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GWOCM-10%G-30%O-2%W-58%M	0.63
60.00	MW-95%W-5%M	0.84

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41717 **DST#: 3**

Test Start: 2011.03.05 @ 16:16:07

GENERAL INFORMATION:

Formation: **H-I-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:58:07
Time Test Ended: 01:37:52

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3346.00 ft (KB) To 3405.00 ft (KB) (TVD)
Total Depth: 3405.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

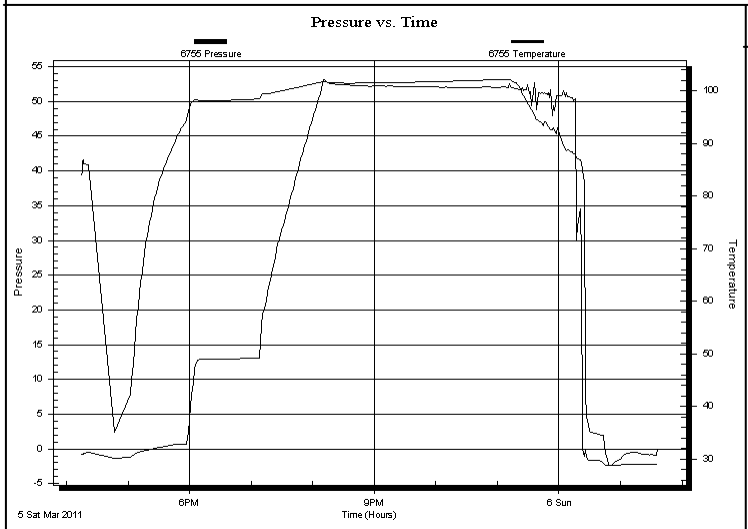
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6755 **Fluid**

Press@RunDepth: psig @ 3311.00 ft (KB)
Start Date: 2011.03.05 End Date: 2011.03.06
Start Time: 16:14:37 End Time: 01:35:50

Capacity: 8000.00 psig
Last Calib.: 2011.03.06
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-10 Min-Fair Blow ,Built to 5-1/2"
ISI-60 Min-Dead
FFP-60 Min-Good Blow ,BOB in 14 Min.
FSI-180 Min-Dead



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GWOCM-10%G-30%O-2%W-58%M	0.63
60.00	MW-95%W-5%M	0.84

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41717 **DST#: 3**

Test Start: 2011.03.05 @ 16:16:07

GENERAL INFORMATION:

Formation: **H-I-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:58:07
Time Test Ended: 01:37:52

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3346.00 ft (KB) To 3405.00 ft (KB) (TVD)
Total Depth: 3405.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

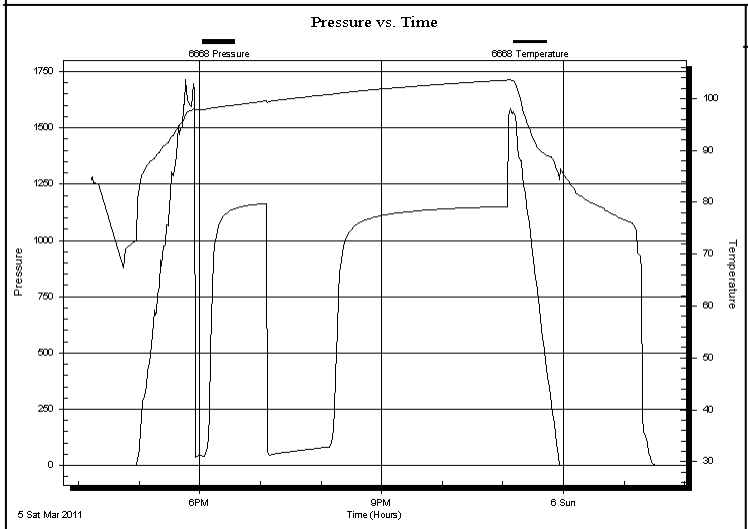
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6668 **Outside**

Press@RunDepth: psig @ 3383.00 ft (KB)
Start Date: 2011.03.05 End Date: 2011.03.06
Start Time: 16:12:41 End Time: 01:34:09

Capacity: 8000.00 psig
Last Calib.: 2011.03.06
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-10 Min-Fair Blow ,Built to 5-1/2"
ISI-60 Min-Dead
FFP-60 Min-Good Blow ,BOB in 14 Min.
FSI-180 Min-Dead



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GWOCM-10%G-30%O-2%W-58%M	0.63
60.00	MW-95%W-5%M	0.84

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41717 **DST#: 3**

Test Start: 2011.03.05 @ 16:16:07

Tool Information

Drill Pipe:	Length:	3322.00 ft	Diameter:	3.80 inches	Volume:	46.60 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		40000.00 lb
					Total Volume:	46.60 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		11.00 ft					String Weight:	Initial	36000.00 lb
Depth to Top Packer:		3346.00 ft						Final	36000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		59.00 ft							
Tool Length:		94.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Recorder	0.00	6755	Fluid	3311.00		
Change Over Sub	5.00			3316.00		
Shut In Tool	5.00			3321.00		
Sampler	3.00			3324.00		
Hydraulic tool	5.00			3329.00		
Jars	5.00			3334.00		
Safety Joint	2.00			3336.00		
Packer	5.00			3341.00	35.00	Bottom Of Top Packer
Packer	5.00			3346.00		
Stubb	1.00			3347.00		
Perforations	3.00			3350.00		
Change Over Sub	1.00			3351.00		
Blank Spacing	31.00			3382.00		
Change Over Sub	1.00			3383.00		
Recorder	0.00	8673	Inside	3383.00		
Recorder	0.00	6668	Outside	3383.00		
Perforations	19.00			3402.00		
Bullnose	3.00			3405.00	59.00	Bottom Packers & Anchor
Total Tool Length:	**94.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41717 **DST#: 3**

Test Start: 2011.03.05 @ 16:16:07

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:	120000 ppm
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.08 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5700.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	GWOCM-10%G-30%O-2%W-58%M	0.631
60.00	MW-95%W-5%M	0.842

Total Length: 105.00 ft Total Volume: 1.473 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler-250#-500ml-G-500ml-Oil-2000ml Salt Water

Samuel Gary jr & Associates

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Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41717 **DST#: 3**

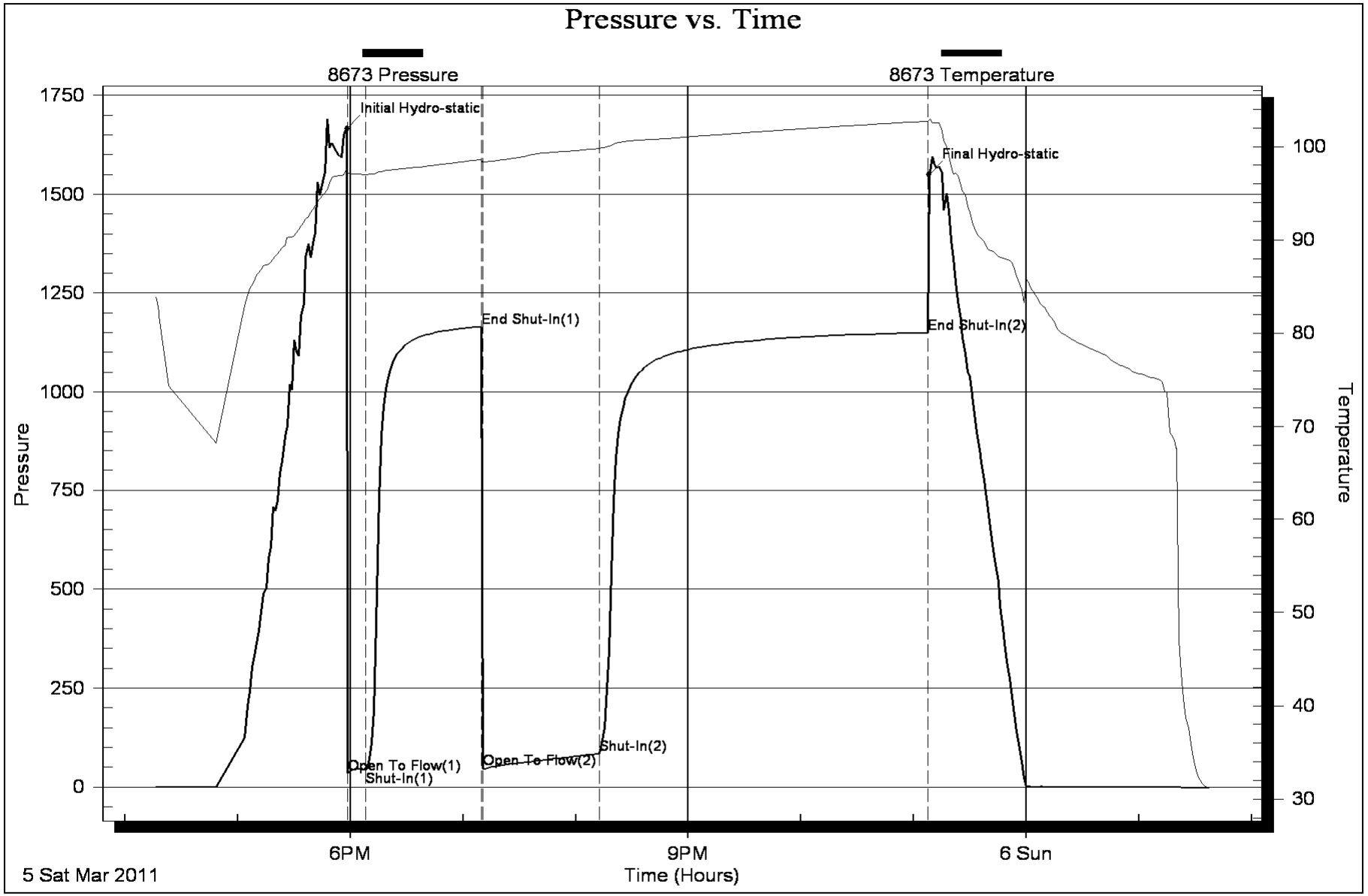
Test Start: 2011.03.05 @ 16:16:07

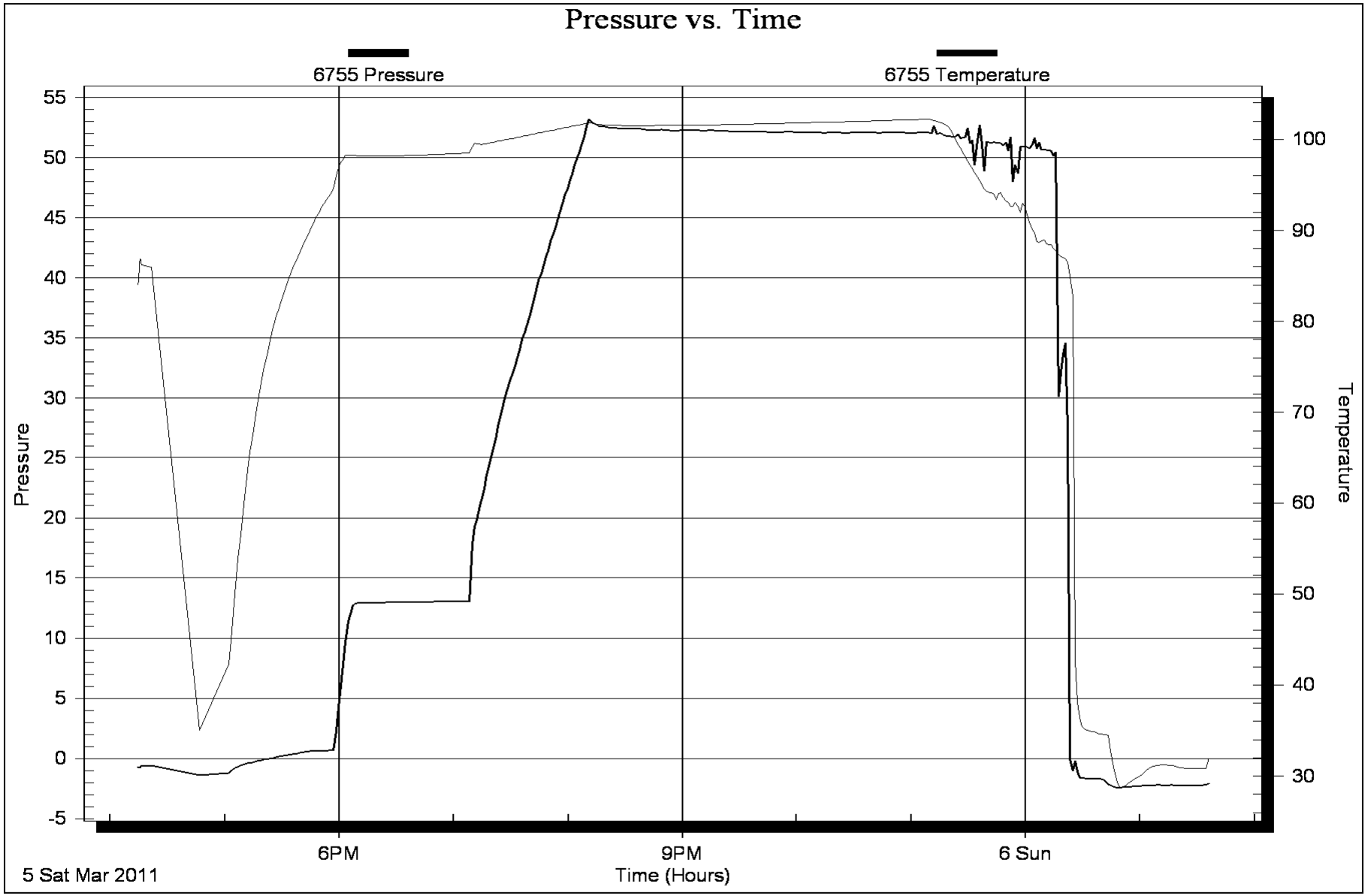
Gas Rates Information

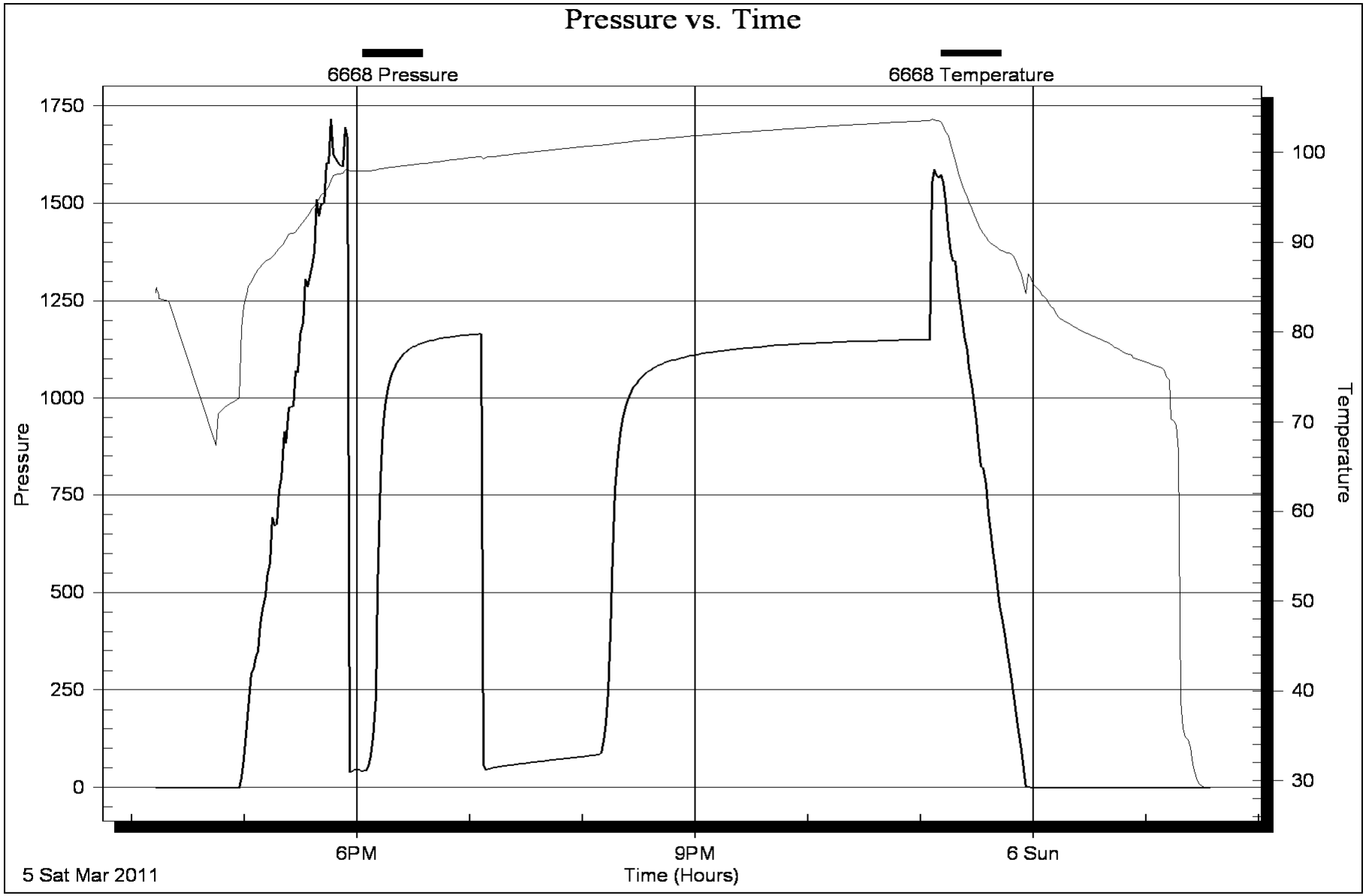
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

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
8673 Pressure
8673 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40
30
6PM
9PM
6 Sun
5 Sat Mar 2011
Time (Hours)


Pressure vs. Time
6755 Pressure
6755 Temperature
Pressure
Temperature
55
50
45
40
35
30
25
20
15
10
5
0
-5
100
90
80
70
60
50
40
30
6PM
9PM
6 Sun
5 Sat Mar 2011
Time (Hours)


Pressure vs. Time
6668 Pressure
6668 Temperature
1750
1500
1250
1000
750
500
250
0
Pressure
100
90
80
70
60
50
40
30
Temperature
6PM
9PM
6 Sun
5 Sat Mar 2011
Time (Hours)

DRILL STEM TESTING - DATA LISTING

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41717 **DST#: 3**

Test Start: 2011.03.05 @ 16:16:07

Serial # 8673 **Inside**				**Serial # 8673** **Inside**			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	0.09	83.8		87.7	1497.80	94.5
	0.2	0.18	83.9		89.5	1545.97	95.0
	0.5	0.19	83.7		91.2	1689.33	95.4
	0.7	0.18	83.5		93.0	1651.05	96.2
	0.9	0.19	83.3		94.7	1620.61	96.8
	1.2	0.20	82.9		96.5	1606.64	96.9
	1.4	0.19	82.6		98.2	1594.84	96.9
	1.6	0.16	82.1		100.0	1649.63	97.0
	1.9	0.17	81.8		101.2	1664.24	97.5
	22.0	0.18	67.1		101.5	1665.16	97.6
	47.5	124.25	83.0	Initial Hydro-static	101.7	1665.67	97.6
	49.2	201.36	84.5	Open To Flow (1)	102.0	35.12	96.9
	51.0	276.64	85.1		102.2	35.36	97.1
	52.7	334.12	85.9		102.5	36.21	97.2
	54.5	394.67	86.4		104.2	42.09	97.1
	56.2	443.95	86.8		106.0	45.00	97.1
	58.0	560.37	87.3		107.7	46.59	97.0
	59.7	588.70	87.4		109.5	42.02	97.0
	61.5	646.89	87.7		111.2	43.34	97.0
	63.2	658.90	88.1		111.5	43.24	97.0
	65.0	726.03	88.5		111.7	43.20	97.0
	66.7	779.03	89.0	Shut-In(1)	112.0	43.07	97.0
	68.5	839.08	89.3		112.2	44.09	97.0
	70.2	887.42	90.2		112.5	47.89	97.0
	72.0	980.29	90.3		112.7	52.15	97.0
	73.7	1131.02	90.5		114.5	92.31	97.0
	75.5	1193.77	90.9		116.2	192.91	97.1
	77.2	1254.17	91.4		118.0	555.08	97.2
	79.0	1246.05	92.0		119.7	868.20	97.3
	80.7	1284.16	92.4		121.5	975.29	97.4
	82.5	1341.04	93.0		123.2	1025.95	97.5
	84.2	1461.62	93.5		125.0	1057.56	97.5
	86.0	1436.78	93.9		126.7	1079.00	97.5

Printing every 7 samples

Serial # 8673 Inside				Serial # 8673 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	128.5	1094.84	97.6		187.2	56.41	98.7
	130.2	1106.28	97.6		189.0	57.78	98.7
	132.0	1115.07	97.6		190.7	59.06	98.8
	133.7	1122.05	97.7		192.5	59.84	98.8
	135.5	1127.60	97.7		194.2	60.71	98.8
	137.2	1132.16	97.7		196.0	61.76	98.9
	139.0	1136.39	97.8		197.7	62.81	99.1
	140.7	1139.53	97.8		199.5	63.85	99.1
	142.5	1142.40	97.9		201.2	64.75	99.2
	144.2	1144.95	97.9		203.0	65.86	99.2
	146.0	1147.11	97.9		204.7	66.86	99.3
	147.7	1149.11	98.0		206.5	67.79	99.3
	149.5	1150.90	98.0		208.2	68.80	99.3
	151.2	1152.46	98.1		210.0	70.25	99.4
	153.0	1153.94	98.1		211.7	70.91	99.4
	154.7	1155.28	98.2		213.5	71.99	99.4
	156.5	1156.41	98.2		215.2	73.06	99.5
	158.2	1157.62	98.2		217.0	73.82	99.5
	160.0	1158.69	98.3		218.7	74.48	99.5
	161.7	1159.60	98.3		220.5	75.63	99.5
	163.5	1160.45	98.4		222.2	76.50	99.6
	165.2	1161.29	98.4		224.0	77.53	99.6
	167.0	1162.05	98.5		225.7	78.41	99.6
	168.7	1162.73	98.5		227.5	79.48	99.6
	170.5	1163.37	98.6		229.2	80.47	99.7
	172.2	1164.27	98.6		231.0	81.10	99.7
	173.0	1164.40	98.6		232.7	82.08	99.8
	173.2	1164.44	98.6		234.5	83.24	99.8
End Shut-In(1)	173.5	1164.46	98.6		235.7	84.22	99.8
	173.7	1164.53	98.6		236.0	84.27	99.8
	174.0	68.80	98.0	Shut-In(2)	236.2	84.35	99.8
Open To Flow (2)	174.2	47.48	98.3		236.5	87.45	99.8
	174.5	46.16	98.3		236.7	92.48	99.8
	174.7	45.45	98.4		237.0	97.76	99.8
	175.0	45.90	98.4		238.7	149.28	99.9
	176.7	48.15	98.4		240.5	258.39	100.0
	178.5	49.93	98.4		242.2	503.13	100.1
	180.2	51.54	98.5		244.0	748.86	100.3
	182.0	53.11	98.5		245.7	873.03	100.4
	183.7	53.88	98.6		247.5	934.37	100.5
	185.5	55.29	98.6		249.2	972.14	100.5

Printing every 7 samples

Serial # 8673 Inside				Serial # 8673 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	251.0	997.81	100.6		322.7	1131.05	101.6
	252.7	1016.80	100.6		324.5	1132.30	101.6
	254.5	1031.65	100.6		326.2	1133.02	101.7
	256.2	1043.20	100.7		328.0	1133.74	101.7
	258.0	1052.63	100.7		329.7	1134.38	101.7
	259.7	1060.67	100.7		331.5	1134.98	101.7
	261.5	1067.21	100.7		333.2	1135.56	101.8
	263.2	1073.02	100.8		335.0	1136.02	101.8
	265.0	1078.10	100.8		336.7	1136.57	101.8
	266.7	1082.38	100.8		338.5	1137.03	101.8
	268.5	1086.29	100.8		340.2	1137.52	101.9
	270.2	1089.84	100.9		342.0	1138.02	101.9
	272.0	1093.06	100.9		343.7	1138.51	101.9
	273.7	1095.45	100.9		345.5	1138.86	101.9
	275.5	1097.48	100.9		347.2	1139.25	102.0
	277.2	1099.76	100.9		349.0	1139.70	102.0
	279.0	1101.84	101.0		350.7	1140.06	102.0
	280.7	1103.86	101.0		352.5	1140.48	102.0
	282.5	1105.72	101.0		354.2	1140.89	102.0
	284.2	1107.58	101.0		356.0	1141.27	102.1
	286.0	1109.33	101.1		357.7	1141.62	102.1
	287.7	1111.04	101.1		359.5	1141.95	102.1
	289.5	1112.36	101.1		361.2	1142.24	102.1
	291.2	1113.72	101.2		363.0	1142.98	102.2
	293.0	1115.06	101.2		364.7	1142.96	102.2
	294.7	1116.26	101.2		366.5	1143.33	102.2
	296.5	1117.57	101.2		368.2	1143.59	102.2
	298.2	1118.74	101.3		370.0	1144.21	102.2
	300.0	1119.81	101.3		371.7	1144.49	102.3
	301.7	1120.78	101.3		373.5	1144.48	102.3
	303.5	1121.91	101.3		375.2	1145.10	102.3
	305.2	1122.85	101.4		377.0	1145.35	102.3
	307.0	1123.83	101.4		378.7	1145.58	102.3
	308.7	1124.80	101.4		380.5	1145.84	102.4
	310.5	1125.55	101.4		382.2	1146.13	102.4
	312.2	1126.37	101.5		384.0	1146.39	102.4
	314.0	1127.19	101.5		385.7	1146.29	102.4
	315.7	1128.11	101.5		387.5	1146.87	102.5
	317.5	1128.78	101.5		389.2	1147.11	102.5
	319.2	1129.50	101.6		391.0	1147.32	102.5
	321.0	1130.13	101.6		392.7	1147.53	102.5

Printing every 7 samples

Serial # 8673 Inside				Serial # 8673 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	394.5	1147.75	102.5		453.0	350.66	87.9
	396.2	1148.01	102.6		454.7	284.83	87.8
	398.0	1148.25	102.6		456.5	231.16	87.4
	399.7	1148.42	102.6		458.2	145.21	86.4
	401.5	1148.61	102.6		460.0	99.27	85.3
	403.2	1148.86	102.6		461.7	31.87	84.3
	405.0	1149.08	102.7		463.5	0.74	85.9
	406.7	1149.24	102.7		465.2	1.54	85.4
	408.5	1149.39	102.7		467.0	0.40	84.6
	410.2	1149.48	102.7		468.7	0.27	84.1
	410.7	1149.51	102.7		470.5	0.36	83.4
	411.0	1149.53	102.7		472.2	0.53	83.0
End Shut-In(2)	411.2	1149.54	102.7		474.0	0.10	82.6
	411.5	1149.62	102.7		475.7	0.09	82.0
	411.7	931.26	102.6		477.5	-0.14	81.6
Final Hydro-static	412.0	1549.96	102.9		479.2	-0.22	80.7
	412.2	1558.60	102.8		481.0	-0.07	80.3
	412.5	1555.93	102.9		482.7	0.08	80.0
	412.7	1552.79	102.9		484.5	0.14	79.8
	414.5	1581.13	102.5		486.2	0.15	79.6
	416.2	1566.43	102.5		488.0	0.17	79.4
	418.0	1572.21	102.4		489.7	0.22	79.1
	419.7	1475.41	100.9		491.5	0.25	79.0
	421.5	1434.99	100.1		493.2	0.25	78.8
	423.2	1427.12	98.1		495.0	0.27	78.6
	425.0	1337.67	97.1		496.7	0.25	78.5
	426.7	1292.46	97.2		498.5	0.22	78.3
	428.5	1212.90	96.0		500.2	0.22	78.1
	430.2	1158.67	95.1		502.0	0.22	78.0
	432.0	1120.41	93.9		503.7	0.23	77.8
	433.7	1037.57	93.0		505.5	0.20	77.7
	435.5	988.54	91.5		507.2	0.14	77.5
	437.2	903.08	90.8		509.0	0.15	77.1
	439.0	855.82	90.3		510.7	0.18	76.9
	440.7	768.75	90.1		512.5	0.20	76.7
	442.5	731.39	89.2		514.2	0.21	76.5
	444.2	648.45	88.9		516.0	0.23	76.4
	446.0	597.13	88.7		517.7	0.15	76.3
	447.7	527.31	88.4		519.5	0.13	76.1
	449.5	473.88	88.2		521.2	0.22	75.8
	451.2	401.23	88.0		523.0	0.22	75.7

Printing every 7 samples

Serial # 8673 Inside				Serial # 6755 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	524.7	0.19	75.6				
	526.5	0.21	75.5				
	528.2	0.24	75.4				
	530.0	0.28	75.3				
	531.7	0.29	75.2				
	533.5	0.24	75.1				
	535.2	0.04	74.9				
	537.0	-0.07	74.1				
	538.7	0.16	73.7				
	540.5	-0.29	69.2				
	542.2	-0.32	68.7				
	544.0	-0.22	67.5				
	545.7	-0.87	44.7				
	547.5	-1.45	40.8				
	549.2	-1.64	38.1				
	551.0	-1.79	36.3				
	552.7	-1.87	34.2				
	554.5	-1.94	32.9				
	556.2	-1.94	32.0				
	558.0	-1.92	31.6				
	559.7	-1.95	31.3				
	561.5	-0.63	31.2				
	561.7	-0.49	31.2				

Printing every 6 samples

DRILL STEM TESTING - DATA LISTING

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41717 **DST#: 3**

Test Start: 2011.03.05 @ 16:16:07

Serial # 6755	**Fluid**			**Serial # 6755**	**Fluid**		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.73	84.1		79.5	0.31	84.9
	0.2	-0.72	84.6		81.0	0.35	85.7
	0.4	-0.73	85.3		82.5	0.39	86.5
	0.6	-0.76	85.8		84.0	0.43	87.2
	0.8	-0.77	86.4		85.5	0.47	87.9
	1.0	-0.77	86.8		87.0	0.51	88.6
	1.2	-0.75	86.9		88.5	0.57	89.3
	1.4	-0.73	86.7		90.0	0.61	90.0
	1.6	-0.68	86.5		91.5	0.63	90.6
	1.8	-0.63	86.3		93.0	0.64	91.3
	7.0	-0.56	86.0		94.5	0.63	91.9
	37.0	-1.51	34.6		96.0	0.62	92.5
	48.0	-1.14	43.3		97.5	0.63	93.0
	49.5	-0.92	46.7		99.0	0.64	93.4
	51.0	-0.81	50.4		100.5	0.65	93.8
	52.5	-0.69	53.8		102.0	0.67	94.2
	54.0	-0.57	57.1		103.5	2.10	95.6
	55.5	-0.48	60.0		105.0	4.30	96.8
	57.0	-0.43	62.7		106.5	6.80	97.6
	58.5	-0.37	65.2		108.0	8.44	97.9
	60.0	-0.31	67.5		109.5	10.59	98.3
	61.5	-0.24	69.6		111.0	11.89	98.3
	63.0	-0.20	71.5		112.5	12.70	98.3
	64.5	-0.15	73.2		114.0	12.56	98.2
	66.0	-0.10	74.8		115.5	12.92	98.2
	67.5	-0.06	76.3		117.0	12.92	98.2
	69.0	-0.02	77.8		118.5	12.93	98.2
	70.5	0.04	79.1		120.0	12.94	98.2
	72.0	0.11	80.2		121.5	12.93	98.2
	73.5	0.16	81.3		123.0	12.93	98.2
	75.0	0.19	82.3		124.5	12.92	98.2
	76.5	0.23	83.2		126.0	12.94	98.2
	78.0	0.26	84.1		127.5	12.93	98.2

Printing every 6 samples

Serial # 6755	Fluid			Serial # 6755	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	129.0	12.93	98.2		190.5	29.03	99.8
	130.5	12.94	98.2		192.0	29.88	99.9
	132.0	12.95	98.2		193.5	30.56	100.0
	133.5	12.96	98.2		195.0	31.48	100.0
	135.0	12.98	98.2		196.5	32.38	100.1
	136.5	12.97	98.2		198.0	33.11	100.2
	138.0	12.97	98.2		199.5	33.80	100.2
	139.5	12.98	98.2		201.0	34.68	100.3
	141.0	12.96	98.2		202.5	35.53	100.3
	142.5	12.96	98.2		204.0	36.15	100.4
	144.0	12.96	98.2		205.5	37.03	100.5
	145.5	12.97	98.2		207.0	37.93	100.5
	147.0	12.98	98.2		208.5	38.89	100.6
	148.5	12.98	98.3		210.0	39.85	100.7
	150.0	12.98	98.3		211.5	40.52	100.7
	151.5	12.98	98.3		213.0	41.40	100.8
	153.0	12.98	98.3		214.5	42.24	100.9
	154.5	13.00	98.3		216.0	42.89	100.9
	156.0	13.00	98.3		217.5	43.70	101.0
	157.5	13.01	98.3		219.0	44.42	101.1
	159.0	13.01	98.3		220.5	45.21	101.1
	160.5	13.02	98.4		222.0	45.93	101.2
	162.0	13.02	98.4		223.5	46.61	101.2
	163.5	13.04	98.4		225.0	47.42	101.3
	165.0	13.05	98.4		226.5	48.15	101.4
	166.5	13.04	98.4		228.0	48.95	101.5
	168.0	13.04	98.4		229.5	49.74	101.5
	169.5	13.04	98.4		231.0	50.40	101.6
	171.0	13.03	98.5		232.5	51.20	101.6
	172.5	13.03	98.5		234.0	51.85	101.7
	174.0	13.07	98.5		235.5	53.18	101.7
	175.5	17.97	99.5		237.0	53.05	101.8
	177.0	19.51	99.5		238.5	52.88	101.7
	178.5	20.49	99.5		240.0	52.74	101.7
	180.0	21.49	99.4		241.5	52.62	101.6
	181.5	22.47	99.5		243.0	52.57	101.6
	183.0	23.73	99.5		244.5	52.54	101.6
	184.5	24.73	99.6		246.0	52.52	101.6
	186.0	25.72	99.7		247.5	52.46	101.5
	187.5	26.89	99.7		249.0	52.45	101.5
	189.0	28.13	99.8		250.5	52.44	101.5

Printing every 6 samples

Serial # 6755	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	252.0	52.40	101.5
	253.5	52.40	101.5
	255.0	52.39	101.5
	256.5	52.37	101.5
	258.0	52.36	101.5
	259.5	52.37	101.5
	261.0	52.36	101.5
	262.5	52.34	101.5
	264.0	52.34	101.5
	265.5	52.32	101.5
	267.0	52.27	101.5
	268.5	52.26	101.5
	270.0	52.28	101.5
	271.5	52.29	101.5
	273.0	52.28	101.5
	274.5	52.29	101.5
	276.0	52.28	101.5
	277.5	52.24	101.5
	279.0	52.22	101.5
	280.5	52.17	101.5
	282.0	52.19	101.5
	283.5	52.26	101.5
	285.0	52.26	101.5
	286.5	52.24	101.5
	288.0	52.24	101.5
	289.5	52.23	101.5
	291.0	52.22	101.5
	292.5	52.23	101.5
	294.0	52.23	101.6
	295.5	52.22	101.6
	297.0	52.21	101.6
	298.5	52.22	101.6
	300.0	52.23	101.6
	301.5	52.23	101.6
	303.0	52.23	101.6
	304.5	52.19	101.6
	306.0	52.19	101.6
	307.5	52.18	101.6
	309.0	52.20	101.6
	310.5	52.18	101.6
	312.0	52.14	101.6

Serial # 6755	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	313.5	52.12	101.6
	315.0	52.14	101.6
	316.5	52.15	101.6
	318.0	52.14	101.6
	319.5	52.13	101.6
	321.0	52.13	101.7
	322.5	52.14	101.7
	324.0	52.13	101.7
	325.5	52.11	101.7
	327.0	52.13	101.7
	328.5	52.13	101.7
	330.0	52.12	101.7
	331.5	52.09	101.7
	333.0	52.08	101.7
	334.5	52.08	101.7
	336.0	52.09	101.7
	337.5	52.10	101.7
	339.0	52.10	101.7
	340.5	52.12	101.8
	342.0	52.11	101.8
	343.5	52.12	101.8
	345.0	52.10	101.8
	346.5	52.08	101.8
	348.0	52.08	101.8
	349.5	52.06	101.8
	351.0	52.05	101.8
	352.5	52.06	101.8
	354.0	52.06	101.8
	355.5	52.06	101.8
	357.0	52.05	101.8
	358.5	52.03	101.9
	360.0	52.02	101.9
	361.5	52.04	101.9
	363.0	52.05	101.9
	364.5	52.05	101.9
	366.0	52.07	101.9
	367.5	52.07	101.9
	369.0	52.02	101.9
	370.5	51.99	101.9
	372.0	52.00	101.9
	373.5	52.03	101.9

Printing every 6 samples

Serial # 6755	Fluid			Serial # 6755	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	375.0	52.05	101.9		436.5	51.42	97.1
	376.5	52.06	102.0		438.0	51.41	96.7
	378.0	52.04	102.0		439.5	49.41	96.1
	379.5	52.04	102.0		441.0	52.04	95.5
	381.0	52.05	102.0		442.5	51.07	95.0
	382.5	52.06	102.0		444.0	51.28	94.5
	384.0	52.05	102.0		445.5	51.31	94.2
	385.5	52.04	102.0		447.0	49.89	94.1
	387.0	52.04	102.0		448.5	48.37	94.0
	388.5	52.02	102.0		450.0	51.18	93.3
	390.0	52.06	102.0		451.5	49.14	93.9
	391.5	52.09	102.0		453.0	51.29	93.8
	393.0	52.08	102.1		454.5	51.33	93.7
	394.5	52.07	102.1		456.0	51.11	93.1
	396.0	52.09	102.1		457.5	51.71	92.7
	397.5	52.08	102.1		459.0	51.01	93.0
	399.0	52.07	102.1		460.5	50.99	92.4
	400.5	52.05	102.1		462.0	51.60	91.9
	402.0	52.04	102.1		463.5	48.97	93.1
	403.5	52.02	102.1		465.0	50.89	92.6
	405.0	52.00	102.1		466.5	54.57	91.6
	406.5	52.00	102.1		468.0	50.80	90.8
	408.0	52.02	102.1		469.5	50.78	89.8
	409.5	52.09	102.2		471.0	50.80	88.9
	411.0	52.11	102.2		472.5	51.25	88.7
	412.5	52.08	102.2		474.0	50.68	88.9
	414.0	52.04	102.2		475.5	50.54	88.5
	415.5	52.02	102.2		477.0	50.57	88.4
	417.0	52.06	102.1		478.5	50.56	88.4
	418.5	51.95	102.0		480.0	50.13	88.0
	420.0	52.00	101.9		481.5	49.97	87.7
	421.5	51.98	101.7		483.0	30.76	87.3
	423.0	52.78	101.6		484.5	33.29	87.0
	424.5	50.52	101.4		486.0	34.53	86.9
	426.0	51.79	101.1		487.5	27.37	86.5
	427.5	51.68	100.5		489.0	-0.05	84.3
	429.0	52.68	99.8		490.5	0.01	59.1
	430.5	52.08	99.3		492.0	-0.87	39.3
	432.0	51.56	98.7		493.5	-1.56	36.7
	433.5	51.63	98.2		495.0	-1.64	35.5
	435.0	52.42	97.6		496.5	-1.67	35.1

Printing every 6 samples

Serial # 6755	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	498.0	-1.67	35.0
	499.5	-1.67	34.9
	501.0	-1.68	34.8
	502.5	-1.67	34.8
	504.0	-1.66	34.6
	505.5	-1.71	34.6
	507.0	-1.87	34.5
	508.5	-1.69	34.5
	510.0	-2.22	32.7
	511.5	-2.35	30.8
	513.0	-2.41	29.5
	514.5	-2.44	28.8
	516.0	-2.41	28.7
	517.5	-2.39	28.9
	519.0	-2.38	29.2
	520.5	-2.36	29.4
	522.0	-2.35	29.6
	523.5	-2.32	29.8
	525.0	-2.29	29.9
	526.5	-2.28	30.2
	528.0	-2.26	30.5
	529.5	-2.24	30.8
	531.0	-2.24	30.9
	532.5	-2.23	31.1
	534.0	-2.22	31.2
	535.5	-2.21	31.2
	537.0	-2.23	31.2
	538.5	-2.24	31.2
	540.0	-2.23	31.2
	541.5	-2.22	31.2
	543.0	-2.22	31.1
	544.5	-2.23	31.0
	546.0	-2.25	31.0
	547.5	-2.25	30.9
	549.0	-2.25	30.9
	550.5	-2.26	30.8
	552.0	-2.25	30.8
	553.5	-2.26	30.8
	555.0	-2.25	30.8
	556.5	-2.24	30.8
	558.0	-2.22	30.8

Serial # 6755	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	559.5	-2.27	30.8
	561.0	-2.21	30.8
	561.2	-2.09	31.9

Printing every 6 samples

DRILL STEM TESTING - DATA LISTING

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41717 **DST#: 3**

Test Start: 2011.03.05 @ 16:16:07

Serial # 6668	**Outside**			**Serial # 6668**	**Outside**		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.55	84.3		65.2	730.30	89.2
	0.2	-0.73	84.8		66.7	792.72	89.5
	0.4	-0.76	84.9		68.2	914.28	89.9
	0.6	-0.76	84.8		69.7	884.21	90.4
	0.8	-0.76	84.7		71.2	947.11	90.9
	1.0	-0.77	84.6		72.7	1007.42	91.0
	1.2	-0.76	84.5		74.2	1109.51	91.2
	1.4	-0.74	84.3		75.7	1065.77	91.5
	1.6	-0.73	84.1		77.2	1160.99	91.9
	1.8	-0.71	83.8		78.7	1224.35	92.3
	7.0	-0.73	83.5		80.2	1238.63	92.8
	32.2	-0.79	70.6		81.7	1309.02	93.2
	33.7	-0.83	71.0		83.2	1339.44	93.7
	35.2	-0.83	71.4		84.7	1490.70	94.1
	36.7	-0.83	71.6		86.2	1437.45	94.6
	38.2	-0.82	71.8		87.7	1522.83	95.0
	39.7	-0.84	72.0		89.2	1532.14	95.5
	41.2	-0.85	72.2		90.7	1602.59	95.8
	42.7	-0.86	72.5		92.2	1621.93	96.4
	44.2	-0.86	72.6		93.7	1631.11	97.1
	45.7	26.04	80.4		95.2	1619.61	97.5
	47.2	113.20	83.1		96.7	1607.64	97.6
	48.7	152.91	84.6		98.2	1597.06	97.6
	50.2	242.85	85.5		99.7	1618.49	97.7
	51.7	303.54	85.9		101.2	1661.53	98.1
	53.2	333.78	86.6		102.7	35.44	97.9
	54.7	426.38	87.1		104.2	40.95	97.9
	56.2	425.59	87.4		105.7	44.63	97.9
	57.7	487.82	87.8		107.2	45.34	97.9
	59.2	517.66	88.0		108.7	47.78	97.9
	60.7	577.59	88.2		110.2	42.06	97.9
	62.2	639.77	88.4		111.7	43.02	97.9
	63.7	728.74	88.8		113.2	53.48	97.9

Printing every 6 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	114.7	87.56	98.0		176.2	46.24	99.5
	116.2	158.58	98.0		177.7	48.58	99.5
	117.7	374.42	98.0		179.2	49.64	99.5
	119.2	750.08	98.1		180.7	51.14	99.6
	120.7	917.21	98.2		182.2	52.37	99.6
	122.2	988.07	98.3		183.7	53.12	99.6
	123.7	1028.33	98.3		185.2	54.24	99.7
	125.2	1055.72	98.4		186.7	55.31	99.7
	126.7	1074.97	98.4		188.2	56.40	99.8
	128.2	1089.74	98.4		189.7	57.25	99.8
	129.7	1101.11	98.5		191.2	58.46	99.8
	131.2	1109.85	98.5		192.7	59.06	99.9
	132.7	1116.83	98.5		194.2	59.81	99.9
	134.2	1122.63	98.6		195.7	60.64	99.9
	135.7	1127.33	98.6		197.2	61.45	100.0
	137.2	1131.38	98.6		198.7	62.32	100.0
	138.7	1135.33	98.7		200.2	63.50	100.0
	140.2	1138.06	98.7		201.7	64.02	100.1
	141.7	1140.77	98.7		203.2	65.20	100.1
	143.2	1143.09	98.8		204.7	66.03	100.1
	144.7	1145.29	98.8		206.2	66.84	100.2
	146.2	1147.12	98.9		207.7	67.76	100.2
	147.7	1148.87	98.9		209.2	68.70	100.2
	149.2	1150.48	98.9		210.7	69.81	100.3
	150.7	1151.84	99.0		212.2	70.33	100.3
	152.2	1153.05	99.0		213.7	71.34	100.3
	153.7	1154.38	99.1		215.2	72.26	100.4
	155.2	1155.47	99.1		216.7	73.06	100.4
	156.7	1156.51	99.1		218.2	73.69	100.4
	158.2	1157.50	99.2		219.7	74.37	100.5
	159.7	1158.42	99.2		221.2	75.31	100.5
	161.2	1159.26	99.3		222.7	76.18	100.5
	162.7	1160.01	99.3		224.2	76.99	100.6
	164.2	1160.77	99.3		225.7	77.66	100.6
	165.7	1161.33	99.4		227.2	78.53	100.6
	167.2	1162.02	99.4		228.7	79.38	100.7
	168.7	1162.60	99.4		230.2	80.17	100.7
	170.2	1163.32	99.5		231.7	80.92	100.7
	171.7	1163.68	99.5		233.2	81.60	100.7
	173.2	1164.38	99.6		234.7	82.53	100.8
	174.7	45.48	99.4		236.2	83.88	100.8

Printing every 6 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	237.7	106.12	100.8		299.2	1119.37	102.0
	239.2	153.99	100.9		300.7	1120.25	102.1
	240.7	245.82	100.9		302.2	1121.19	102.1
	242.2	439.98	100.9		303.7	1122.02	102.1
	243.7	671.43	101.0		305.2	1122.93	102.1
	245.2	822.95	101.0		306.7	1123.86	102.2
	246.7	899.13	101.1		308.2	1124.47	102.2
	248.2	944.01	101.1		309.7	1125.39	102.2
	249.7	974.42	101.1		311.2	1126.02	102.2
	251.2	996.47	101.2		312.7	1126.63	102.3
	252.7	1013.48	101.2		314.2	1127.35	102.3
	254.2	1027.14	101.2		315.7	1128.09	102.3
	255.7	1038.06	101.3		317.2	1128.75	102.3
	257.2	1047.11	101.3		318.7	1129.38	102.4
	258.7	1054.83	101.3		320.2	1129.97	102.4
	260.2	1061.53	101.4		321.7	1130.50	102.4
	261.7	1067.16	101.4		323.2	1131.42	102.4
	263.2	1072.23	101.4		324.7	1132.40	102.4
	264.7	1076.61	101.4		326.2	1133.13	102.5
	266.2	1080.72	101.5		327.7	1133.72	102.5
	267.7	1084.56	101.5		329.2	1134.33	102.5
	269.2	1087.40	101.5		330.7	1134.87	102.5
	270.7	1090.42	101.6		332.2	1135.40	102.6
	272.2	1093.23	101.6		333.7	1135.79	102.6
	273.7	1095.40	101.6		335.2	1136.23	102.6
	275.2	1096.91	101.6		336.7	1136.76	102.6
	276.7	1098.87	101.7		338.2	1137.15	102.6
	278.2	1100.84	101.7		339.7	1137.52	102.7
	279.7	1102.60	101.7		341.2	1138.02	102.7
	281.2	1104.35	101.7		342.7	1138.42	102.7
	282.7	1105.85	101.8		344.2	1138.76	102.7
	284.2	1107.54	101.8		345.7	1139.00	102.7
	285.7	1109.03	101.8		347.2	1139.46	102.8
	287.2	1110.47	101.8		348.7	1139.76	102.8
	288.7	1111.78	101.9		350.2	1140.46	102.8
	290.2	1112.90	101.9		351.7	1140.50	102.8
	291.7	1114.11	101.9		353.2	1140.72	102.8
	293.2	1115.21	101.9		354.7	1141.16	102.9
	294.7	1116.35	102.0		356.2	1141.82	102.9
	296.2	1117.43	102.0		357.7	1141.73	102.9
	297.7	1118.37	102.0		359.2	1142.07	102.9

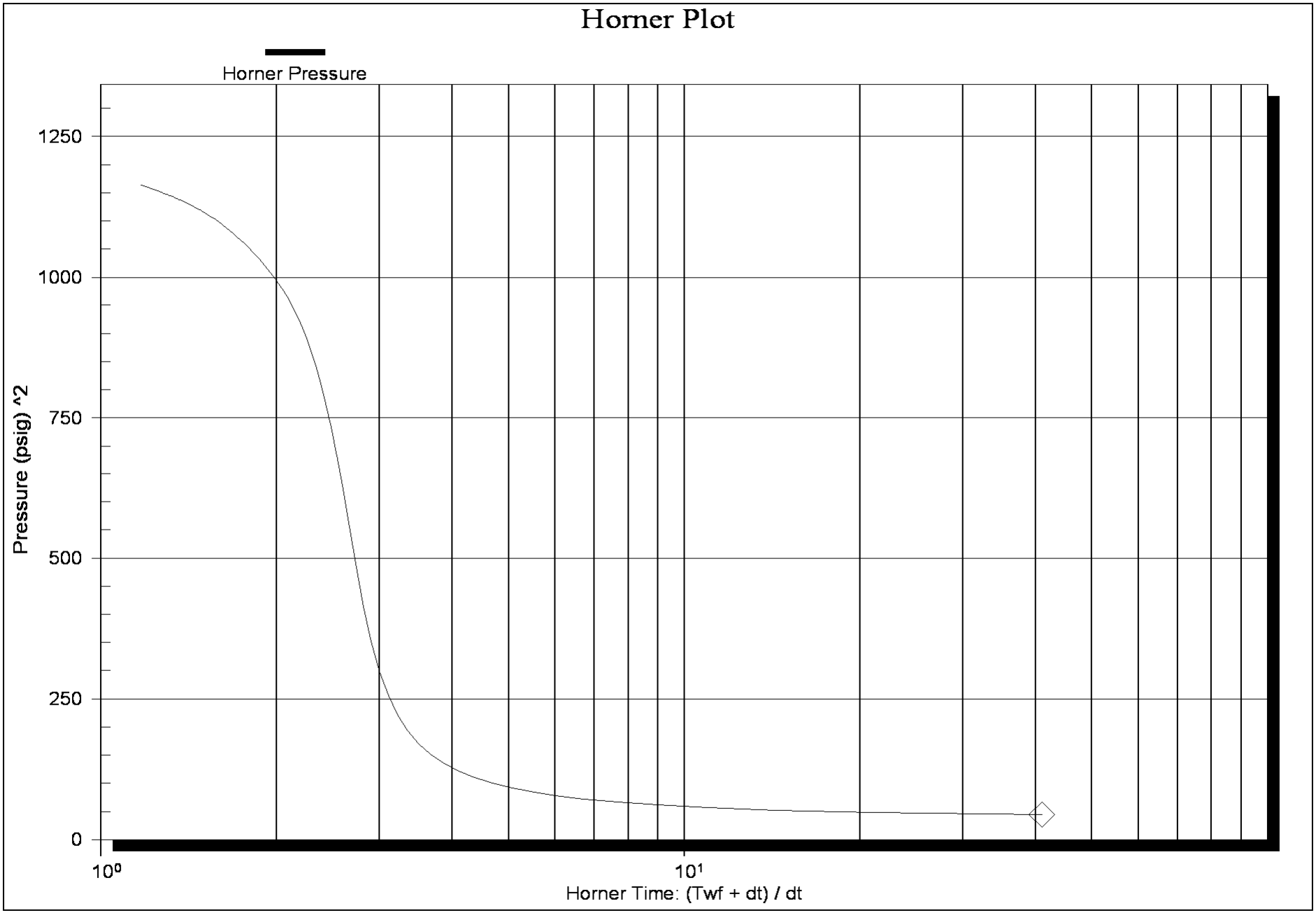
Printing every 6 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	360.7	1142.35	102.9		422.2	1462.24	101.8
	362.2	1142.64	103.0		423.7	1426.99	100.5
	363.7	1143.26	103.0		425.2	1381.44	99.4
	365.2	1143.19	103.0		426.7	1263.67	98.1
	366.7	1143.44	103.0		428.2	1247.68	97.2
	368.2	1144.05	103.0		429.7	1203.43	96.3
	369.7	1144.30	103.1		431.2	1157.60	95.4
	371.2	1144.51	103.1		432.7	1067.70	94.7
	372.7	1144.77	103.1		434.2	1033.46	93.9
	374.2	1145.02	103.1		435.7	989.32	93.1
	375.7	1144.98	103.1		437.2	900.20	92.4
	377.2	1145.25	103.2		438.7	857.25	91.8
	378.7	1145.85	103.2		440.2	819.63	91.2
	380.2	1146.07	103.2		441.7	776.51	90.6
	381.7	1146.32	103.2		443.2	701.73	90.2
	383.2	1146.21	103.2		444.7	642.83	89.9
	384.7	1146.74	103.2		446.2	596.59	89.7
	386.2	1146.92	103.3		447.7	561.63	89.5
	387.7	1147.15	103.3		449.2	491.72	89.2
	389.2	1147.39	103.3		450.7	435.07	89.0
	390.7	1147.60	103.3		452.2	395.29	88.9
	392.2	1147.78	103.3		453.7	357.51	88.8
	393.7	1147.96	103.4		455.2	263.71	88.7
	395.2	1148.15	103.4		456.7	228.46	88.5
	396.7	1148.36	103.4		458.2	187.41	87.8
	398.2	1148.56	103.4		459.7	118.66	86.9
	399.7	1148.69	103.4		461.2	61.27	86.1
	401.2	1148.86	103.4		462.7	21.76	84.5
	402.7	1149.04	103.5		464.2	-0.62	86.5
	404.2	1149.22	103.5		465.7	-0.10	86.1
	405.7	1149.38	103.5		467.2	-0.68	85.4
	407.2	1149.50	103.5		468.7	-0.74	85.0
	408.7	1149.62	103.5		470.2	-0.77	84.7
	410.2	1149.70	103.5		471.7	-0.79	84.2
	411.7	1149.79	103.6		473.2	-0.77	83.9
	413.2	1549.82	103.7		474.7	-0.88	83.5
	414.7	1582.78	103.6		476.2	-0.90	82.9
	416.2	1568.34	103.5		477.7	-0.96	82.7
	417.7	1572.31	103.5		479.2	-1.01	82.3
	419.2	1563.43	103.1		480.7	-1.04	81.6
	420.7	1507.20	102.3		482.2	-1.01	81.4

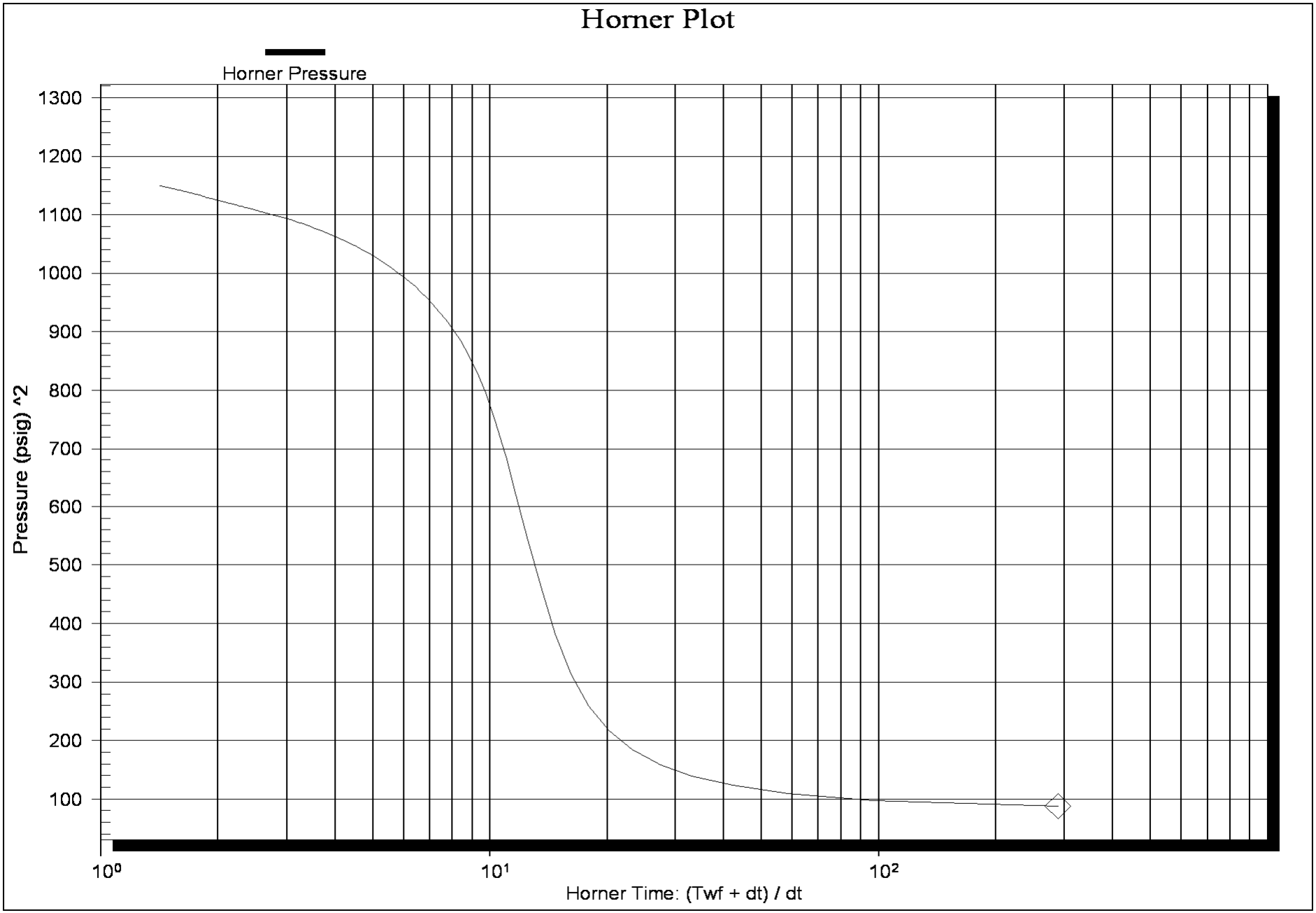
Printing every 6 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	483.7	-1.03	81.2		545.2	-0.04	42.3
	485.2	-1.05	81.1		546.7	-0.67	36.3
	486.7	-1.06	80.9		548.2	-0.83	34.9
	488.2	-1.05	80.7		549.7	-0.91	34.5
	489.7	-1.05	80.5		551.2	-0.90	32.9
	491.2	-1.04	80.3		552.7	-0.92	31.2
	492.7	-1.03	80.1		554.2	-0.94	30.1
	494.2	-1.03	80.0		555.7	-0.96	29.6
	495.7	-1.02	79.9		557.2	-0.95	29.4
	497.2	-1.00	79.7		558.7	-0.96	29.2
	498.7	-1.00	79.6		560.2	-0.97	29.2
	500.2	-1.01	79.4		561.5	-0.91	29.4
	501.7	-1.00	79.3				
	503.2	-1.00	79.2				
	504.7	-0.99	79.0				
	506.2	-1.00	78.9				
	507.7	-1.02	78.7				
	509.2	-1.04	78.5				
	510.7	-1.03	78.3				
	512.2	-1.03	78.1				
	513.7	-1.04	78.0				
	515.2	-1.05	77.8				
	516.7	-1.05	77.6				
	518.2	-1.09	77.5				
	519.7	-1.12	77.3				
	521.2	-1.11	77.1				
	522.7	-1.11	77.0				
	524.2	-1.12	76.9				
	525.7	-1.14	76.8				
	527.2	-1.13	76.7				
	528.7	-1.13	76.5				
	530.2	-1.15	76.4				
	531.7	-1.15	76.3				
	533.2	-1.16	76.2				
	534.7	-1.17	76.1				
	536.2	-1.16	75.9				
	537.7	-1.16	75.2				
	539.2	-1.21	74.8				
	540.7	-1.24	70.3				
	542.2	-1.22	70.0				
	543.7	-1.18	69.1				

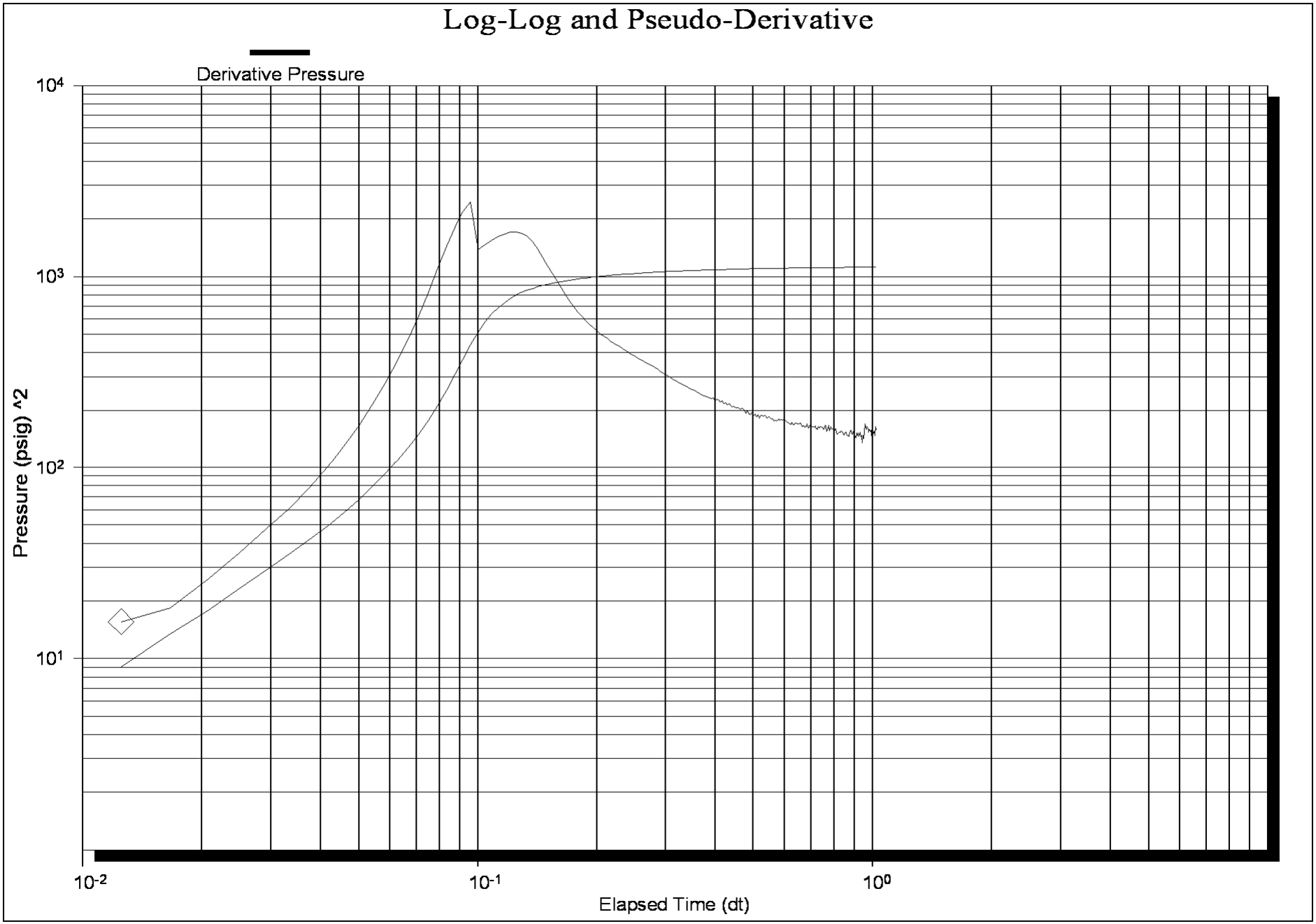
Printing every 6 samples

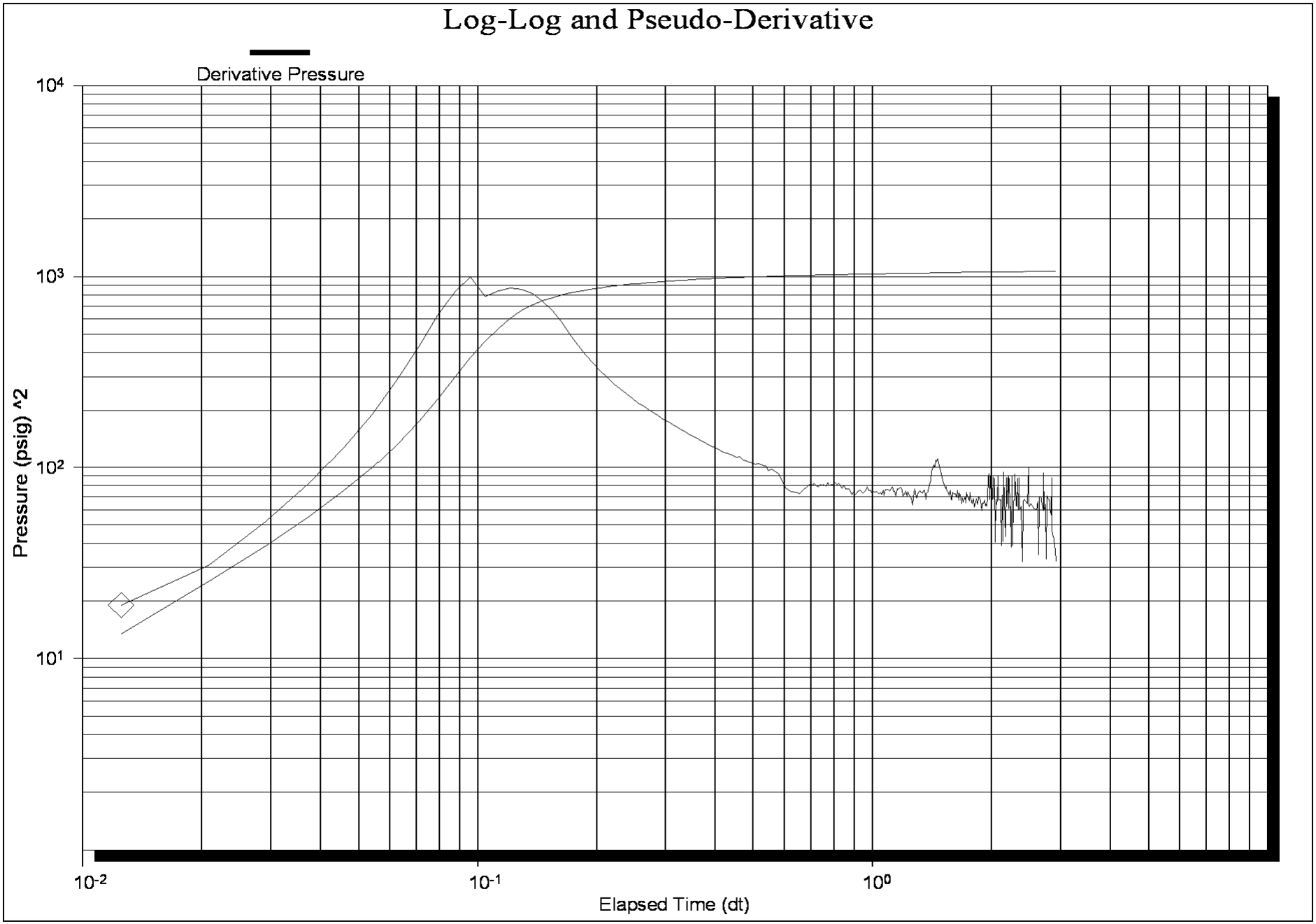


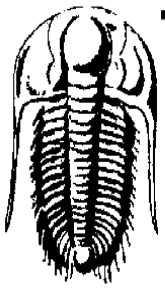
Serial Number: 8673 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 1



Serial Number: 8673 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 2


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (psig) ^2
10^-2
10^-1
10^0
Elapsed Time (dt)


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (psig) ^2
10^-2
10^-1
10^0
Elapsed Time (dt)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary jr & Associates**

1515 Wynkoop
Suite 700
Denver, CO. 80202

ATTN: Neil Sharp

2-16s-17w-Rush

Younger-Dome #1-2

Start Date: 2011.03.07 @ 00:44:36
End Date: 2011.03.07 @ 09:52:36
Job Ticket #: 41719 DST #: 4

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

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41719 **DST#: 4**

Test Start: 2011.03.07 @ 00:44:36

GENERAL INFORMATION:

Formation: **Penn. Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:28:06
Time Test Ended: 09:52:36

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3464.00 ft (KB) To 3498.00 ft (KB) (TVD)
Total Depth: 3498.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

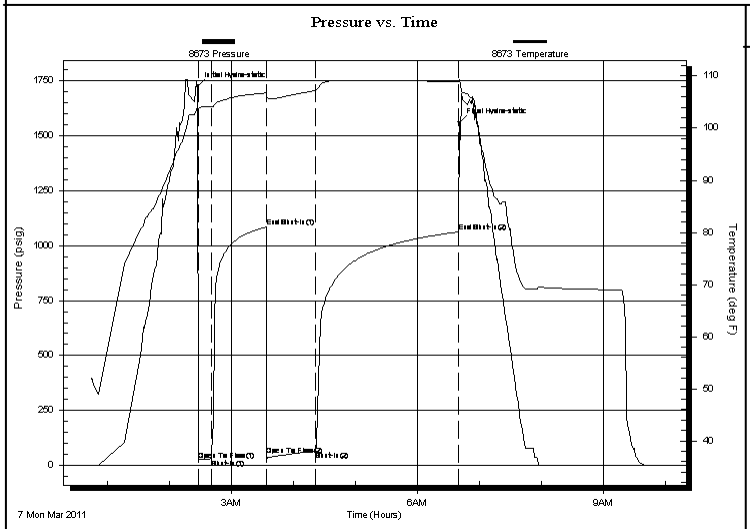
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8673 **Inside**

Press@RunDepth: 65.92 psig @ 3469.00 ft (KB)
Start Date: 2011.03.07 End Date: 2011.03.07
Start Time: 00:44:38 End Time: 09:52:36

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2011.03.07 @ 02:27:21
Time Off Btm: 2011.03.07 @ 06:40:06

TEST COMMENT: IFP-10 Min.-Good Blow ,Built to 6"
ISI-60 Min.-Dead
FFP-45 Min.-Good Blow ,BOB in 12 Min.
FSI-135 Min.-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1723.10	104.22	Initial Hydro-static
1	22.22	103.64	Open To Flow (1)
13	29.80	104.09	Shut-In(1)
66	1083.82	106.75	End Shut-In(1)
67	45.77	106.14	Open To Flow (2)
114	65.92	107.25	Shut-In(2)
253	1062.19	109.01	End Shut-In(2)
253	1560.35	109.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Free Oil	1.40
30.00	OCM-35%O-65%M	0.42
0.00	300' Gas In Pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41719 **DST#: 4**

Test Start: 2011.03.07 @ 00:44:36

GENERAL INFORMATION:

Formation: **Penn. Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:28:06
Time Test Ended: 09:52:36

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3464.00 ft (KB) To 3498.00 ft (KB) (TVD)
Total Depth: 3498.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

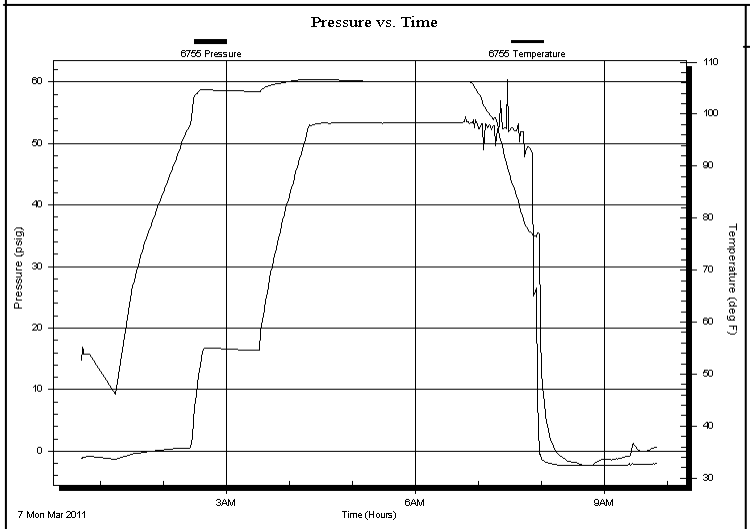
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6755 **Fluid**

Press@RunDepth: psig @ 3429.00 ft (KB)
Start Date: 2011.03.07 End Date: 2011.03.07
Start Time: 00:42:21 End Time: 09:50:19

Capacity: 8000.00 psig
Last Calib.: 2011.03.07
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-10 Min.-Good Blow ,Built to 6"
ISI-60 Min.-Dead
FFP-45 Min.-Good Blow ,BOB in 12 Min.
FSI-135 Min.-Dead



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Free Oil	1.40
30.00	OCM-35%O-65%M	0.42
0.00	300' Gas In Pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41719 **DST#: 4**

Test Start: 2011.03.07 @ 00:44:36

GENERAL INFORMATION:

Formation: **Penn. Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:28:06
Time Test Ended: 09:52:36

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3464.00 ft (KB) To 3498.00 ft (KB) (TVD)
Total Depth: 3498.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

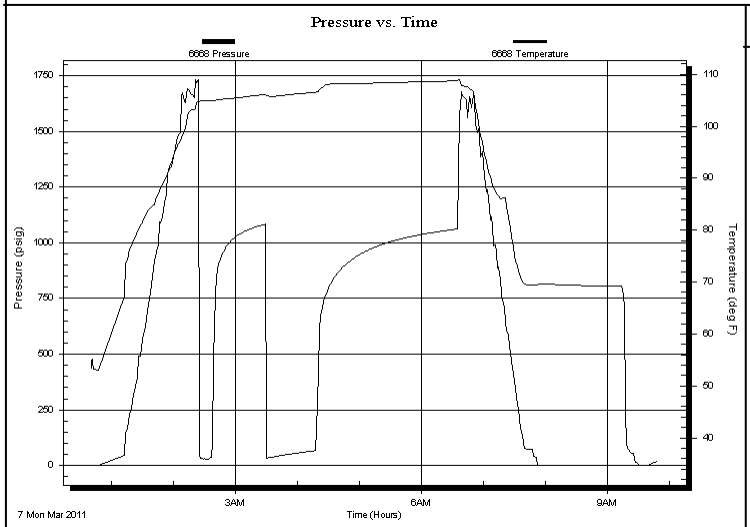
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6668 **Outside**

Press@RunDepth: psig @ 3469.00 ft (KB)
Start Date: 2011.03.07 End Date: 2011.03.07
Start Time: 00:40:51 End Time: 09:49:04

Capacity: 8000.00 psig
Last Calib.: 2011.03.07
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-10 Min.-Good Blow ,Built to 6"
ISI-60 Min.-Dead
FFP-45 Min.-Good Blow ,BOB in 12 Min.
FSI-135 Min.-Dead



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Free Oil	1.40
30.00	OCM-35%O-65%M	0.42
0.00	300' Gas In Pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41719 **DST#: 4**

Test Start: 2011.03.07 @ 00:44:36

Tool Information

Drill Pipe:	Length:	3439.00 ft	Diameter:	3.80 inches	Volume:	48.24 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		60000.00 lb
					Total Volume:	48.24 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight:	Initial	41000.00 lb
Depth to Top Packer:		3464.00 ft						Final	44000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		34.00 ft							
Tool Length:		69.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Recorder	0.00	6755	Fluid	3429.00		
Change Over Sub	5.00			3434.00		
Shut In Tool	5.00			3439.00		
Sampler	3.00			3442.00		
Hydraulic tool	5.00			3447.00		
Jars	5.00			3452.00		
Safety Joint	2.00			3454.00		
Packer	5.00			3459.00	35.00	Bottom Of Top Packer
Packer	5.00			3464.00		
Stubb	1.00			3465.00		
Perforations	4.00			3469.00		
Recorder	0.00	8673	Inside	3469.00		
Recorder	0.00	6668	Outside	3469.00		
Perforations	26.00			3495.00		
Bullnose	3.00			3498.00	34.00	Bottom Packers & Anchor
Total Tool Length:	**69.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202

ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41719 **DST#: 4**

Test Start: 2011.03.07 @ 00:44:36

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:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.07 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5700.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	Free Oil	1.403
30.00	OCM-35%O-65%M	0.421
0.00	300' Gas In Pipe	0.000

Total Length: 130.00 ft Total Volume: 1.824 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler-100#, 3000ml,Gassy Oil 30%G-70%O

DRILL STEM TEST REPORT

GAS RATES

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41719 **DST#: 4**

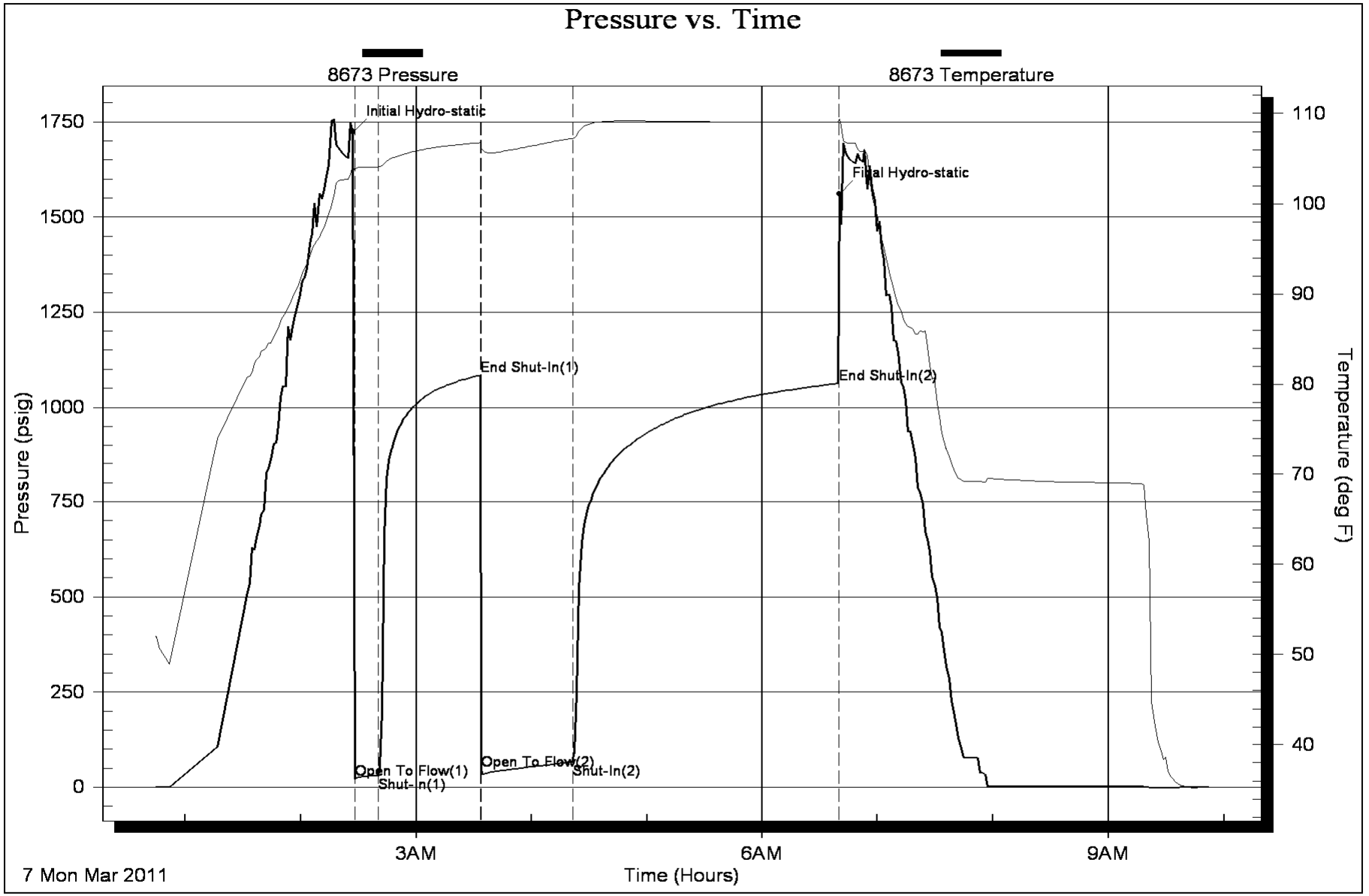
Test Start: 2011.03.07 @ 00:44:36

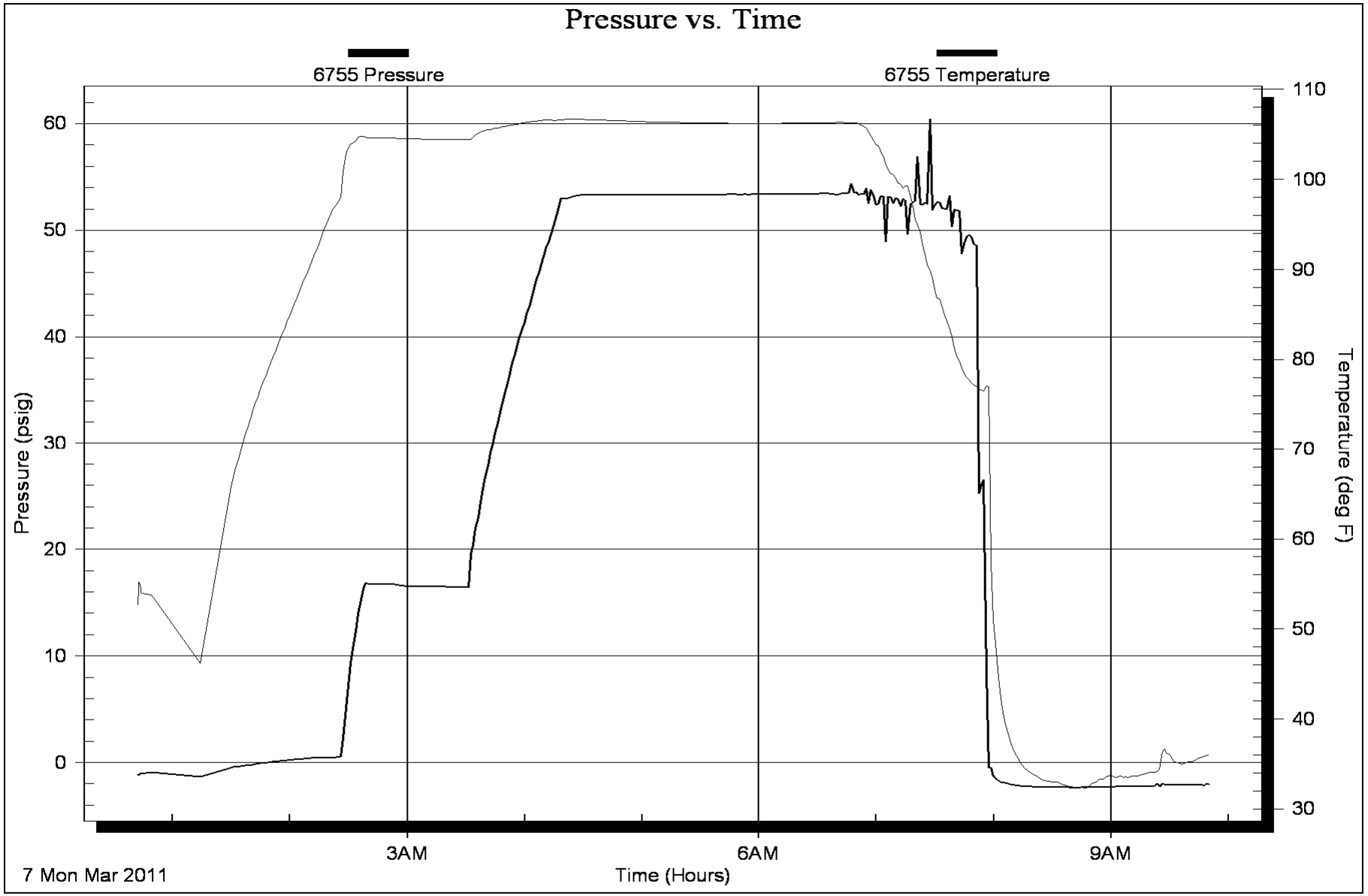
Gas Rates Information

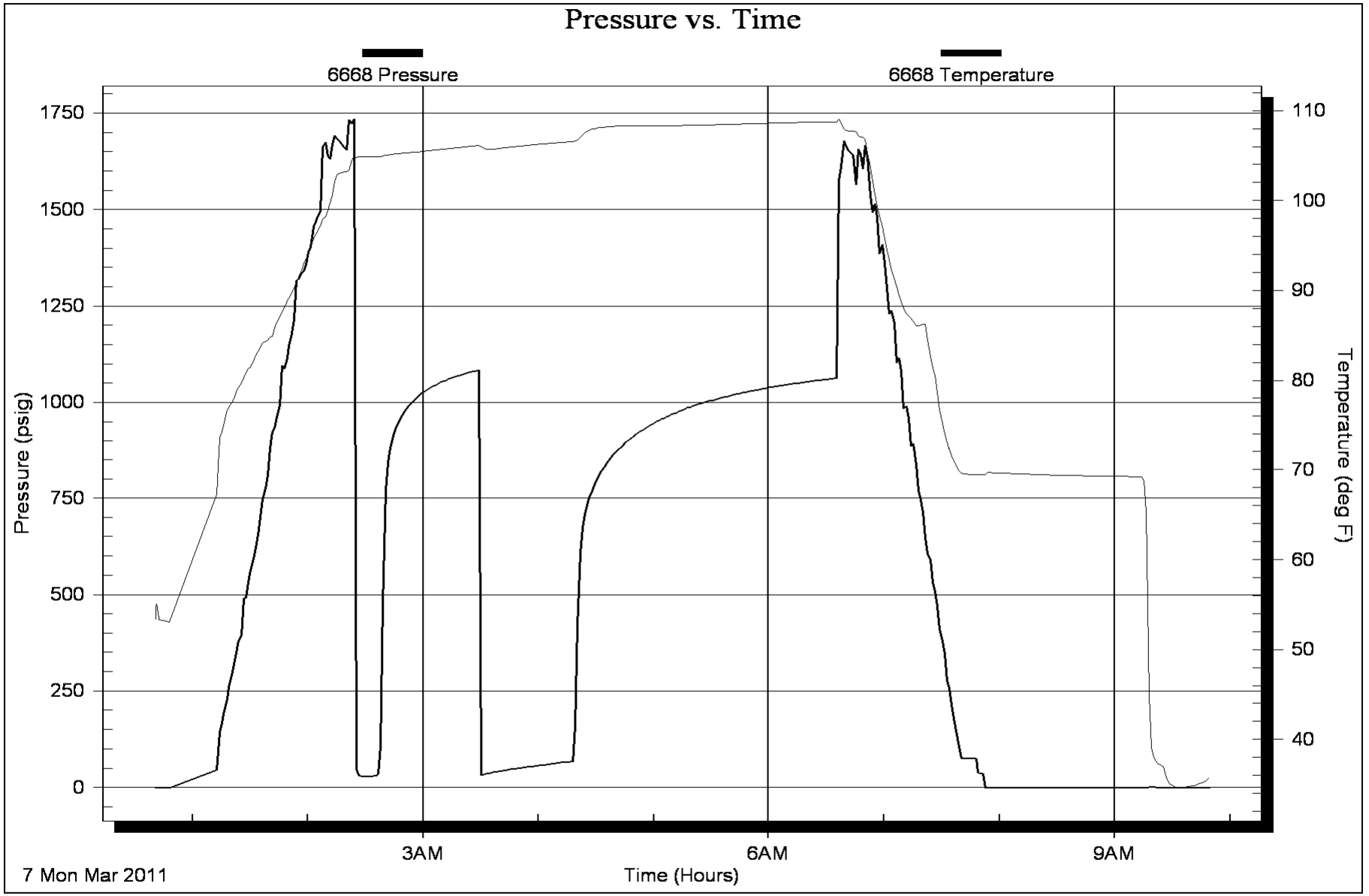
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

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
8673 Pressure
8673 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
3AM
6AM
9AM
7 Mon Mar 2011
Time (Hours)


Pressure vs. Time
6755 Pressure
6755 Temperature
Pressure (psig)
Temperature (deg F)
60
50
40
30
20
10
0
110
100
90
80
70
60
50
40
30
3AM
6AM
9AM
7 Mon Mar 2011
Time (Hours)


Pressure vs. Time
6668 Pressure
6668 Temperature
1750
1500
1250
1000
750
500
250
0
Pressure (psig)
110
100
90
80
70
60
50
40
Temperature (deg F)
3AM
6AM
9AM
7 Mon Mar 2011
Time (Hours)

DRILL STEM TESTING - DATA LISTING

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41719 **DST#: 4**

Test Start: 2011.03.07 @ 00:44:36

Serial # 8673 Inside

Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.02	51.9
	0.2	-0.05	52.0
	0.5	-0.07	52.0
	0.7	-0.05	51.8
	0.9	-0.04	51.6
	1.2	-0.05	51.3
	1.4	-0.07	51.1
	1.6	-0.13	50.9
	1.9	-0.18	50.8
	22.0	11.23	67.2
	47.5	502.22	80.8
	49.2	563.71	81.0
	51.0	643.68	82.1
	52.7	656.27	82.8
	54.5	762.08	83.4
	56.2	729.32	83.8
	58.0	810.53	84.3
	59.7	869.97	84.7
	61.5	888.48	85.4
	63.2	964.74	86.2
	65.0	1026.51	87.0
	66.7	1122.72	87.6
	68.5	1116.05	88.4
	70.2	1180.28	89.2
	72.0	1308.87	89.9
	73.7	1271.90	90.8
	75.5	1388.38	91.8
	77.2	1342.27	92.7
	79.0	1396.08	93.6
	80.7	1448.23	94.5
	82.5	1536.05	95.5
	84.2	1486.81	96.1
	86.0	1608.06	96.8

Serial # 8673 Inside

Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	87.7	1573.52	97.4
	89.5	1732.76	98.5
	91.2	1754.13	99.5
	93.0	1694.55	101.7
	94.7	1683.39	102.5
	96.5	1672.11	102.6
	98.2	1661.56	102.7
	100.0	1655.01	102.7
	101.7	1719.52	104.0
	102.2	1722.99	104.2
	102.5	1722.96	104.2
Initial Hydro-static	102.7	1723.10	104.2
	103.0	1723.72	104.2
	103.2	233.44	103.5
Open To Flow (1)	103.5	22.22	103.6
	103.7	22.77	103.8
	104.0	23.30	103.9
	104.2	22.54	103.9
	106.0	25.64	104.1
	107.7	28.43	104.1
	109.5	28.99	104.0
	111.2	28.59	104.0
	113.0	28.84	104.1
	114.7	29.66	104.1
	115.0	29.68	104.1
	115.2	29.72	104.1
Shut-In(1)	115.5	29.80	104.1
	115.7	34.73	104.1
	116.0	43.54	104.1
	116.2	54.42	104.1
	118.0	384.97	104.3
	119.7	792.25	104.6
	121.5	866.74	104.9

Printing every 7 samples

Serial # 8673 Inside				Serial # 8673 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	123.2	904.64	105.1		187.0	47.57	106.1
	125.0	930.55	105.2		188.7	48.66	106.1
	126.7	950.35	105.4		190.5	49.94	106.2
	128.5	966.44	105.5		192.2	51.15	106.3
	130.2	979.57	105.6		194.0	52.22	106.4
	132.0	990.90	105.7		195.7	53.20	106.4
	133.7	1000.72	105.8		197.5	54.18	106.5
	135.5	1009.34	105.9		199.2	55.24	106.6
	137.2	1017.06	105.9		201.0	56.38	106.6
	139.0	1024.17	106.0		202.7	57.40	106.7
	140.7	1030.34	106.1		204.5	58.47	106.8
	142.5	1035.98	106.1		206.2	59.52	106.9
	144.2	1041.17	106.2		208.0	60.64	106.9
	146.0	1045.86	106.3		209.7	61.93	107.0
	147.7	1050.17	106.3		211.5	62.93	107.1
	149.5	1054.14	106.4		213.2	63.98	107.1
	151.2	1057.79	106.4		215.0	65.03	107.2
	153.0	1061.42	106.5		216.2	65.81	107.2
	154.7	1064.33	106.5		216.5	65.86	107.2
	156.5	1067.35	106.5	Shut-In(2)	216.7	65.92	107.2
	158.2	1070.19	106.6		217.0	66.06	107.3
	160.0	1072.82	106.6		217.2	77.00	107.3
	161.7	1075.27	106.6		217.5	91.50	107.3
	163.5	1077.65	106.7		219.2	365.83	107.7
	165.2	1079.86	106.7		221.0	627.00	108.4
	167.0	1081.97	106.7		222.7	694.92	108.6
	168.2	1083.69	106.7		224.5	731.62	108.8
	168.5	1083.77	106.7		226.2	758.68	108.9
End Shut-In(1)	168.7	1083.82	106.7		228.0	780.39	109.0
	169.0	1083.69	106.8		229.7	798.71	109.0
Open To Flow (2)	169.2	45.77	106.1		231.5	814.66	109.1
	169.5	33.48	106.2		233.2	828.80	109.1
	171.2	35.59	105.7		235.0	841.67	109.1
	173.0	37.13	105.6		236.7	853.05	109.2
	174.7	39.10	105.6		238.5	863.53	109.2
	176.5	40.67	105.7		240.2	873.24	109.2
	178.2	41.90	105.7		242.0	882.04	109.2
	180.0	43.12	105.8		243.7	890.25	109.2
	181.7	44.23	105.8		245.5	897.98	109.2
	183.5	45.27	105.9		247.2	905.22	109.2
	185.2	46.40	106.0		249.0	911.91	109.2

Printing every 7 samples

Serial # 8673 Inside				Serial # 8673 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	250.7	918.35	109.2		322.5	1039.39	109.0
	252.5	924.37	109.2		324.2	1040.95	109.0
	254.2	929.94	109.2		326.0	1042.32	109.0
	256.0	935.33	109.2		327.7	1043.73	109.0
	257.7	940.42	109.2		329.5	1045.14	109.0
	259.5	945.31	109.2		331.2	1046.45	109.0
	261.2	949.93	109.1		333.0	1047.72	109.0
	263.0	954.37	109.1		334.7	1048.97	109.0
	264.7	958.62	109.1		336.5	1050.27	109.0
	266.5	962.64	109.1		338.2	1051.48	109.0
	268.2	966.57	109.1		340.0	1052.56	109.0
	270.0	970.18	109.1		341.7	1053.92	109.0
	271.7	974.15	109.1		343.5	1055.05	109.0
	273.5	977.20	109.1		345.2	1056.23	109.0
	275.2	980.84	109.1		347.0	1057.31	109.0
	277.0	984.01	109.1		348.7	1058.39	109.0
	278.7	986.75	109.1		350.5	1059.45	109.0
	280.5	989.84	109.1		352.2	1060.47	109.0
	282.2	992.65	109.1		354.0	1061.55	109.0
	284.0	995.40	109.1		354.7	1062.11	109.0
	285.7	998.09	109.1		355.0	1062.17	109.0
	287.5	1000.67	109.1	End Shut-In(2)	355.2	1062.19	109.0
	289.2	1003.13	109.1	Final Hydro-static	355.5	1560.35	109.3
	291.0	1005.61	109.1		355.7	1571.68	109.2
	292.7	1008.02	109.1		356.0	1573.31	109.0
	294.5	1010.30	109.1		357.7	1686.68	106.9
	296.2	1012.47	109.1		359.5	1661.95	106.8
	298.0	1014.66	109.1		361.2	1651.38	106.7
	299.7	1016.73	109.1		363.0	1642.97	106.7
	301.5	1018.81	109.1		364.7	1669.08	106.2
	303.2	1020.75	109.1		366.5	1647.86	105.8
	305.0	1022.67	109.1		368.2	1608.05	106.1
	306.7	1024.53	109.1		370.0	1574.04	105.3
	308.5	1026.34	109.1		371.7	1603.98	102.3
	310.2	1028.13	109.1		373.5	1543.67	100.0
	312.0	1029.93	109.0		375.2	1470.81	98.5
	313.7	1031.56	109.0		377.0	1387.41	96.9
	315.5	1033.28	109.0		378.7	1387.37	95.1
	317.2	1034.84	109.0		380.5	1327.16	93.2
	319.0	1036.36	109.0		382.2	1267.16	91.7
	320.7	1037.94	109.0		384.0	1204.75	90.3

Printing every 7 samples

Serial # 8673 Inside				Serial # 8673 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	385.7	1105.43	89.1		457.5	1.28	69.2
	387.5	1066.60	88.1		459.2	1.29	69.2
	389.2	1001.57	87.0		461.0	1.30	69.2
	391.0	988.19	86.4		462.7	1.26	69.2
	392.7	929.38	86.3		464.5	1.21	69.1
	394.5	885.62	85.7		466.2	0.95	69.1
	396.2	788.48	85.5		468.0	1.34	69.1
	398.0	745.83	85.9		469.7	1.34	69.1
	399.7	713.49	85.9		471.5	1.33	69.1
	401.5	650.07	83.6		473.2	1.34	69.1
	403.2	589.55	81.0		475.0	1.36	69.1
	405.0	528.64	80.7		476.7	1.37	69.1
	406.7	468.03	77.3		478.5	1.37	69.1
	408.5	407.34	74.9		480.2	1.40	69.1
	410.2	344.91	73.5		482.0	1.39	69.1
	412.0	276.69	72.3		483.7	1.35	69.1
	413.7	226.63	71.1		485.5	1.35	69.1
	415.5	180.72	70.3		487.2	1.38	69.1
	417.2	137.06	69.5		489.0	1.40	69.0
	419.0	80.99	69.3		490.7	1.40	69.0
	420.7	77.05	69.1		492.5	1.40	69.0
	422.5	76.81	69.1		494.2	1.41	69.0
	424.2	76.68	69.1		496.0	1.45	69.0
	426.0	76.53	69.1		497.7	1.44	69.0
	427.7	76.28	69.1		499.5	1.43	69.0
	429.5	37.06	69.1		501.2	1.47	69.0
	431.2	33.68	69.1		503.0	1.47	69.0
	433.0	1.21	69.5		504.7	1.46	69.0
	434.7	1.22	69.5		506.5	1.49	69.0
	436.5	1.22	69.4		508.2	1.49	68.9
	438.2	1.21	69.4		510.0	1.49	68.9
	440.0	1.22	69.4		511.7	1.51	68.9
	441.7	1.22	69.4		513.5	1.54	68.8
	443.5	1.20	69.3		515.2	-1.19	63.4
	445.2	1.21	69.3		517.0	-1.25	46.6
	447.0	1.23	69.3		518.7	-1.72	43.1
	448.7	1.23	69.3		520.5	-1.85	41.1
	450.5	1.24	69.3		522.2	-1.88	39.5
	452.2	1.27	69.3		524.0	-1.87	38.2
	454.0	1.26	69.2		525.7	-1.63	37.8
	455.7	1.26	69.2		527.5	-1.91	36.6

Printing every 7 samples

Serial # 8673 Inside				Serial # 6755 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	529.2	-1.56	36.1				
	531.0	-1.55	35.7				
	532.7	-1.15	35.5				
	534.5	-0.82	35.4				
	536.2	-0.09	35.4				
	538.0	0.10	35.3				
	539.7	0.20	35.2				
	541.5	0.20	35.3				
	543.2	0.20	35.3				
	545.0	0.13	35.3				
	546.7	0.20	35.3				
	548.0	-0.30	35.4				

Printing every 6 samples

DRILL STEM TESTING - DATA LISTING

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41719 **DST#: 4**

Test Start: 2011.03.07 @ 00:44:36

Serial # 6755	**Fluid**			**Serial # 6755**	**Fluid**		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.10	52.7		79.5	0.24	85.9
	0.2	-1.18	54.9		81.0	0.27	86.7
	0.4	-1.14	55.3		82.5	0.29	87.5
	0.6	-1.11	55.2		84.0	0.31	88.4
	0.8	-1.08	55.1		85.5	0.34	89.1
	1.0	-1.04	55.0		87.0	0.38	89.9
	1.2	-1.01	54.7		88.5	0.41	90.7
	1.4	-1.02	54.5		90.0	0.41	91.5
	1.6	-1.03	54.2		91.5	0.42	92.3
	1.8	-1.12	54.0		93.0	0.43	93.1
	7.0	-0.90	53.7		94.5	0.42	94.1
	37.0	-1.16	49.3		96.0	0.44	94.9
	48.0	-0.45	66.2		97.5	0.43	95.7
	49.5	-0.43	67.5		99.0	0.42	96.4
	51.0	-0.40	68.7		100.5	0.45	97.0
	52.5	-0.36	69.8		102.0	0.50	97.4
	54.0	-0.34	71.0		103.5	0.58	97.9
	55.5	-0.30	72.1		105.0	2.25	100.9
	57.0	-0.26	73.2		106.5	5.75	103.0
	58.5	-0.23	74.2		108.0	8.15	103.7
	60.0	-0.16	75.2		109.5	10.28	104.0
	61.5	-0.11	76.1		111.0	12.11	104.2
	63.0	-0.09	77.0		112.5	13.94	104.7
	64.5	-0.06	77.8		114.0	15.37	104.8
	66.0	-0.02	78.7		115.5	16.80	104.7
	67.5	0.03	79.5		117.0	16.80	104.6
	69.0	0.06	80.3		118.5	16.75	104.6
	70.5	0.08	81.1		120.0	16.74	104.6
	72.0	0.10	81.9		121.5	16.73	104.6
	73.5	0.14	82.7		123.0	16.73	104.6
	75.0	0.18	83.5		124.5	16.72	104.6
	76.5	0.21	84.3		126.0	16.72	104.6
	78.0	0.22	85.1		127.5	16.70	104.6

Printing every 6 samples

Serial # 6755	Fluid			Serial # 6755	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	129.0	16.70	104.6		190.5	37.03	106.0
	130.5	16.68	104.6		192.0	38.11	106.1
	132.0	16.67	104.6		193.5	39.09	106.1
	133.5	16.62	104.6		195.0	40.03	106.2
	135.0	16.55	104.6		196.5	40.87	106.3
	136.5	16.53	104.5		198.0	41.74	106.3
	138.0	16.52	104.5		199.5	42.54	106.4
	139.5	16.51	104.5		201.0	43.42	106.4
	141.0	16.51	104.5		202.5	44.47	106.5
	142.5	16.52	104.5		204.0	45.56	106.5
	144.0	16.53	104.5		205.5	46.35	106.5
	145.5	16.54	104.5		207.0	47.24	106.6
	147.0	16.52	104.5		208.5	48.29	106.6
	148.5	16.50	104.5		210.0	49.03	106.6
	150.0	16.47	104.5		211.5	49.88	106.6
	151.5	16.47	104.4		213.0	50.83	106.5
	153.0	16.48	104.4		214.5	51.99	106.6
	154.5	16.49	104.4		216.0	52.98	106.6
	156.0	16.49	104.4		217.5	52.94	106.6
	157.5	16.47	104.4		219.0	52.94	106.7
	159.0	16.46	104.4		220.5	53.04	106.7
	160.5	16.46	104.4		222.0	53.15	106.7
	162.0	16.47	104.4		223.5	53.22	106.7
	163.5	16.47	104.4		225.0	53.25	106.7
	165.0	16.46	104.4		226.5	53.27	106.7
	166.5	16.45	104.4		228.0	53.30	106.7
	168.0	16.44	104.4		229.5	53.31	106.6
	169.5	16.43	104.4		231.0	53.32	106.6
	171.0	20.15	104.6		232.5	53.32	106.6
	172.5	22.03	104.9		234.0	53.30	106.6
	174.0	23.20	105.2		235.5	53.29	106.6
	175.5	24.95	105.3		237.0	53.29	106.6
	177.0	26.30	105.4		238.5	53.31	106.6
	178.5	27.63	105.5		240.0	53.32	106.6
	180.0	29.05	105.6		241.5	53.32	106.6
	181.5	30.15	105.6		243.0	53.31	106.5
	183.0	31.40	105.7		244.5	53.33	106.5
	184.5	32.52	105.8		246.0	53.32	106.5
	186.0	33.65	105.8		247.5	53.30	106.5
	187.5	34.67	105.9		249.0	53.31	106.5
	189.0	35.87	106.0		250.5	53.32	106.5

Printing every 6 samples

Serial # 6755	Fluid			Serial # 6755	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	252.0	53.31	106.5		313.5	53.33	106.2
	253.5	53.30	106.5		315.0	53.35	106.2
	255.0	53.31	106.4		316.5	53.37	106.2
	256.5	53.31	106.4		318.0	53.36	106.2
	258.0	53.31	106.4		319.5	53.36	106.2
	259.5	53.30	106.4		321.0	53.36	106.2
	261.0	53.30	106.4		322.5	53.36	106.2
	262.5	53.31	106.4		324.0	53.37	106.2
	264.0	53.31	106.4		325.5	53.39	106.2
	265.5	53.33	106.4		327.0	53.39	106.2
	267.0	53.33	106.4		328.5	53.40	106.2
	268.5	53.33	106.4		330.0	53.39	106.2
	270.0	53.32	106.3		331.5	53.39	106.2
	271.5	53.32	106.3		333.0	53.39	106.2
	273.0	53.32	106.3		334.5	53.39	106.2
	274.5	53.31	106.3		336.0	53.36	106.2
	276.0	53.32	106.3		337.5	53.35	106.3
	277.5	53.32	106.3		339.0	53.36	106.2
	279.0	53.32	106.3		340.5	53.39	106.3
	280.5	53.33	106.3		342.0	53.39	106.3
	282.0	53.31	106.3		343.5	53.40	106.3
	283.5	53.30	106.3		345.0	53.40	106.3
	285.0	53.29	106.3		346.5	53.39	106.3
	286.5	53.30	106.3		348.0	53.41	106.3
	288.0	53.32	106.3		349.5	53.42	106.3
	289.5	53.33	106.3		351.0	53.41	106.3
	291.0	53.31	106.3		352.5	53.41	106.3
	292.5	53.32	106.3		354.0	53.41	106.3
	294.0	53.31	106.3		355.5	53.42	106.3
	295.5	53.30	106.3		357.0	48.06	106.3
	297.0	53.29	106.3		358.5	53.37	106.3
	298.5	53.31	106.2		360.0	53.41	106.3
	300.0	53.33	106.2		361.5	53.44	106.3
	301.5	53.34	106.2		363.0	53.47	106.3
	303.0	53.35	106.2		364.5	53.53	106.3
	304.5	53.35	106.2		366.0	53.48	106.3
	306.0	53.36	106.2		367.5	53.55	106.2
	307.5	53.34	106.2		369.0	53.55	106.1
	309.0	53.34	106.2		370.5	55.90	106.0
	310.5	53.36	106.2		372.0	53.53	105.8
	312.0	53.34	106.2		373.5	53.80	105.4

Printing every 6 samples

Serial # 6755 Fluid				Serial # 6755 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	375.0	53.79	104.8		436.5	-0.65	55.2
	376.5	51.75	104.2		438.0	-1.39	49.4
	378.0	53.21	103.8		439.5	-1.67	45.6
	379.5	52.11	103.4		441.0	-1.80	42.8
	381.0	53.18	102.7		442.5	-1.88	40.6
	382.5	48.94	101.7		444.0	-1.94	39.2
	384.0	53.34	101.0		445.5	-2.03	37.9
	385.5	53.25	100.6		447.0	-2.09	37.0
	387.0	54.42	100.3		448.5	-2.14	36.3
	388.5	52.94	99.6		450.0	-2.18	35.6
	390.0	52.21	99.5		451.5	-2.21	35.1
	391.5	52.81	99.1		453.0	-2.24	34.6
	393.0	49.96	99.3		454.5	-2.25	34.3
	394.5	52.65	98.7		456.0	-2.25	34.1
	396.0	51.53	97.5		457.5	-2.28	33.9
	397.5	52.71	95.6		459.0	-2.32	33.7
	399.0	52.55	95.0		460.5	-2.32	33.5
	400.5	57.16	93.6		462.0	-2.31	33.3
	402.0	52.31	92.3		463.5	-2.32	33.2
	403.5	52.07	90.8		465.0	-2.34	33.1
	405.0	60.40	89.9		466.5	-2.34	33.1
	406.5	52.35	88.9		468.0	-2.32	33.0
	408.0	52.59	87.5		469.5	-2.31	33.0
	409.5	52.16	86.5		471.0	-2.32	32.9
	411.0	52.16	86.1		472.5	-2.34	32.8
	412.5	52.05	85.0		474.0	-2.34	32.6
	414.0	52.10	84.0		475.5	-2.35	32.5
	415.5	51.93	83.2		477.0	-2.37	32.5
	417.0	48.33	81.8		478.5	-2.38	32.5
	418.5	51.96	80.7		480.0	-2.36	32.4
	420.0	51.85	79.8		481.5	-2.36	32.4
	421.5	48.66	79.0		483.0	-2.36	32.4
	423.0	48.96	78.3		484.5	-2.35	32.3
	424.5	49.31	77.9		486.0	-2.33	32.5
	426.0	49.41	77.5		487.5	-2.32	32.7
	427.5	48.73	77.2		489.0	-2.32	33.0
	429.0	48.48	76.9		490.5	-2.32	33.1
	430.5	25.74	76.6		492.0	-2.31	33.3
	432.0	27.76	76.5		493.5	-2.30	33.4
	433.5	10.83	77.0		495.0	-2.29	33.6
	435.0	-0.51	77.0		496.5	-2.30	33.7

Printing every 6 samples

Serial # 6755 Fluid				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	498.0	-2.31	33.6				
	499.5	-2.30	33.5				
	501.0	-2.27	33.6				
	502.5	-2.27	33.6				
	504.0	-2.29	33.5				
	505.5	-2.27	33.6				
	507.0	-2.26	33.6				
	508.5	-2.27	33.7				
	510.0	-2.28	33.6				
	511.5	-2.27	33.7				
	513.0	-2.26	33.8				
	514.5	-2.25	33.9				
	516.0	-2.24	34.0				
	517.5	-2.24	34.1				
	519.0	-2.23	34.1				
	520.5	-2.09	34.1				
	522.0	-2.27	34.2				
	523.5	-1.93	36.1				
	525.0	-2.07	36.7				
	526.5	-2.10	35.9				
	528.0	-2.12	35.8				
	529.5	-2.13	35.4				
	531.0	-2.13	35.2				
	532.5	-2.12	35.1				
	534.0	-2.11	35.1				
	535.5	-2.12	35.1				
	537.0	-2.12	35.2				
	538.5	-2.12	35.3				
	540.0	-2.11	35.3				
	541.5	-2.09	35.5				
	543.0	-2.08	35.7				
	544.5	-2.06	35.8				
	546.0	-2.06	35.9				
	547.5	-2.06	36.0				
	548.0	-2.09	36.1				

Printing every 6 samples

DRILL STEM TESTING - DATA LISTING

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w-Rush

Job Ticket: 41719 **DST#: 4**

Test Start: 2011.03.07 @ 00:44:36

Serial # 6668	**Outside**			**Serial # 6668**	**Outside**		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.98	53.4		65.2	1024.17	87.4
	0.2	-1.05	54.8		66.7	1108.30	88.0
	0.4	-1.00	55.1		68.2	1115.49	88.6
	0.6	-0.95	55.0		69.7	1136.69	89.2
	0.8	-0.93	54.8		71.2	1210.32	89.9
	1.0	-0.90	54.4		72.7	1240.08	90.6
	1.2	-0.86	54.1		74.2	1280.29	91.4
	1.4	-0.84	53.8		75.7	1334.32	92.3
	1.6	-0.86	53.5		77.2	1340.61	93.1
	1.8	-0.87	53.3		78.7	1415.78	93.7
	7.0	-0.91	53.1		80.2	1425.73	94.7
	32.2	106.97	73.3		81.7	1456.02	95.7
	33.7	137.73	73.9		83.2	1470.09	96.3
	35.2	182.06	74.9		84.7	1459.09	96.7
	36.7	228.60	76.2		86.2	1546.70	97.4
	38.2	259.06	77.0		87.7	1572.45	98.1
	39.7	289.58	77.6		89.2	1601.83	98.8
	41.2	320.45	78.3		90.7	1631.37	99.8
	42.7	382.35	79.1		92.2	1668.40	100.9
	44.2	410.77	79.6		93.7	1688.88	102.5
	45.7	489.92	80.3		95.2	1678.64	103.0
	47.2	501.54	80.9		96.7	1669.04	103.1
	48.7	505.23	81.3		98.2	1660.06	103.2
	50.2	592.32	81.7		99.7	1653.68	103.2
	51.7	623.23	82.7		101.2	1773.26	103.6
	53.2	655.68	83.2		102.7	1721.77	104.8
	54.7	715.59	83.8		104.2	42.89	104.7
	56.2	744.08	84.2		105.7	32.30	104.8
	57.7	813.94	84.4		107.2	27.98	104.9
	59.2	838.63	84.7		108.7	26.99	104.9
	60.7	924.62	84.9		110.2	27.15	104.9
	62.2	932.68	86.0		111.7	27.53	104.9
	63.7	1033.63	86.7		113.2	28.55	104.9

Printing every 6 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	114.7	29.66	104.9		176.2	38.91	105.7
	116.2	53.67	104.9		177.7	40.23	105.8
	117.7	262.92	104.9		179.2	41.58	105.8
	119.2	741.36	105.0		180.7	42.74	105.8
	120.7	842.94	105.1		182.2	44.10	105.9
	122.2	885.88	105.1		183.7	45.09	105.9
	123.7	913.89	105.1		185.2	46.37	105.9
	125.2	934.91	105.2		186.7	47.53	106.0
	126.7	951.79	105.2		188.2	48.56	106.0
	128.2	965.73	105.2		189.7	49.92	106.0
	129.7	977.53	105.3		191.2	50.91	106.1
	131.2	987.70	105.3		192.7	51.92	106.1
	132.7	996.64	105.3		194.2	52.85	106.1
	134.2	1004.69	105.3		195.7	53.58	106.2
	135.7	1011.78	105.4		197.2	54.52	106.2
	137.2	1018.11	105.4		198.7	55.38	106.2
	138.7	1024.00	105.4		200.2	56.31	106.3
	140.2	1029.46	105.5		201.7	57.23	106.3
	141.7	1034.21	105.5		203.2	58.39	106.3
	143.2	1038.80	105.6		204.7	59.26	106.3
	144.7	1043.01	105.6		206.2	60.27	106.4
	146.2	1046.81	105.6		207.7	61.27	106.4
	147.7	1050.52	105.7		209.2	62.50	106.4
	149.2	1053.91	105.7		210.7	63.46	106.4
	150.7	1057.06	105.7		212.2	64.22	106.5
	152.2	1060.00	105.8		213.7	65.27	106.5
	153.7	1063.09	105.8		215.2	66.14	106.5
	155.2	1065.54	105.8		216.7	66.72	106.5
	156.7	1067.97	105.9		218.2	158.36	106.6
	158.2	1070.44	105.9		219.7	474.04	106.8
	159.7	1072.68	105.9		221.2	641.30	107.1
	161.2	1074.77	106.0		222.7	695.70	107.4
	162.7	1076.86	106.0		224.2	728.23	107.7
	164.2	1078.80	106.0		225.7	752.89	107.8
	165.7	1080.60	106.1		227.2	772.94	107.9
	167.2	1082.38	106.1		228.7	790.04	108.0
	168.7	1084.24	106.1		230.2	805.02	108.1
	170.2	32.09	105.9		231.7	818.42	108.1
	171.7	34.30	105.7		233.2	830.45	108.2
	173.2	35.70	105.7		234.7	841.51	108.2
	174.7	37.39	105.7		236.2	851.54	108.2

Printing every 6 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	237.7	860.81	108.2		299.2	1017.37	108.5
	239.2	869.43	108.2		300.7	1019.02	108.5
	240.7	877.41	108.3		302.2	1020.69	108.5
	242.2	884.98	108.3		303.7	1022.46	108.5
	243.7	892.00	108.3		305.2	1024.02	108.5
	245.2	898.66	108.3		306.7	1025.61	108.5
	246.7	904.99	108.3		308.2	1027.17	108.5
	248.2	910.90	108.3		309.7	1028.64	108.5
	249.7	916.55	108.3		311.2	1030.18	108.5
	251.2	921.84	108.3		312.7	1031.71	108.5
	252.7	926.91	108.3		314.2	1033.06	108.6
	254.2	931.76	108.3		315.7	1034.40	108.6
	255.7	936.29	108.3		317.2	1035.79	108.6
	257.2	940.78	108.3		318.7	1037.09	108.6
	258.7	945.03	108.3		320.2	1038.41	108.6
	260.2	949.09	108.3		321.7	1039.66	108.6
	261.7	952.98	108.3		323.2	1040.97	108.6
	263.2	956.70	108.3		324.7	1042.16	108.6
	264.7	960.30	108.3		326.2	1043.33	108.6
	266.2	963.71	108.3		327.7	1044.63	108.6
	267.7	967.12	108.3		329.2	1045.68	108.6
	269.2	970.58	108.3		330.7	1046.79	108.6
	270.7	973.48	108.3		332.2	1047.97	108.6
	272.2	976.41	108.3		333.7	1049.07	108.7
	273.7	979.50	108.3		335.2	1050.14	108.7
	275.2	982.15	108.3		336.7	1051.15	108.7
	276.7	984.76	108.3		338.2	1052.20	108.7
	278.2	987.35	108.3		339.7	1053.21	108.7
	279.7	989.95	108.3		341.2	1054.24	108.7
	281.2	992.48	108.4		342.7	1055.23	108.7
	282.7	994.94	108.4		344.2	1056.27	108.7
	284.2	997.19	108.4		345.7	1057.13	108.7
	285.7	999.51	108.4		347.2	1058.02	108.7
	287.2	1001.70	108.4		348.7	1058.99	108.7
	288.7	1003.80	108.4		350.2	1059.86	108.7
	290.2	1005.89	108.4		351.7	1060.84	108.7
	291.7	1008.14	108.4		353.2	1061.67	108.7
	293.2	1009.95	108.4		354.7	1062.74	108.8
	294.7	1011.75	108.4		356.2	1474.59	109.2
	296.2	1013.62	108.4		357.7	1687.28	108.0
	297.7	1015.48	108.5		359.2	1664.01	107.8

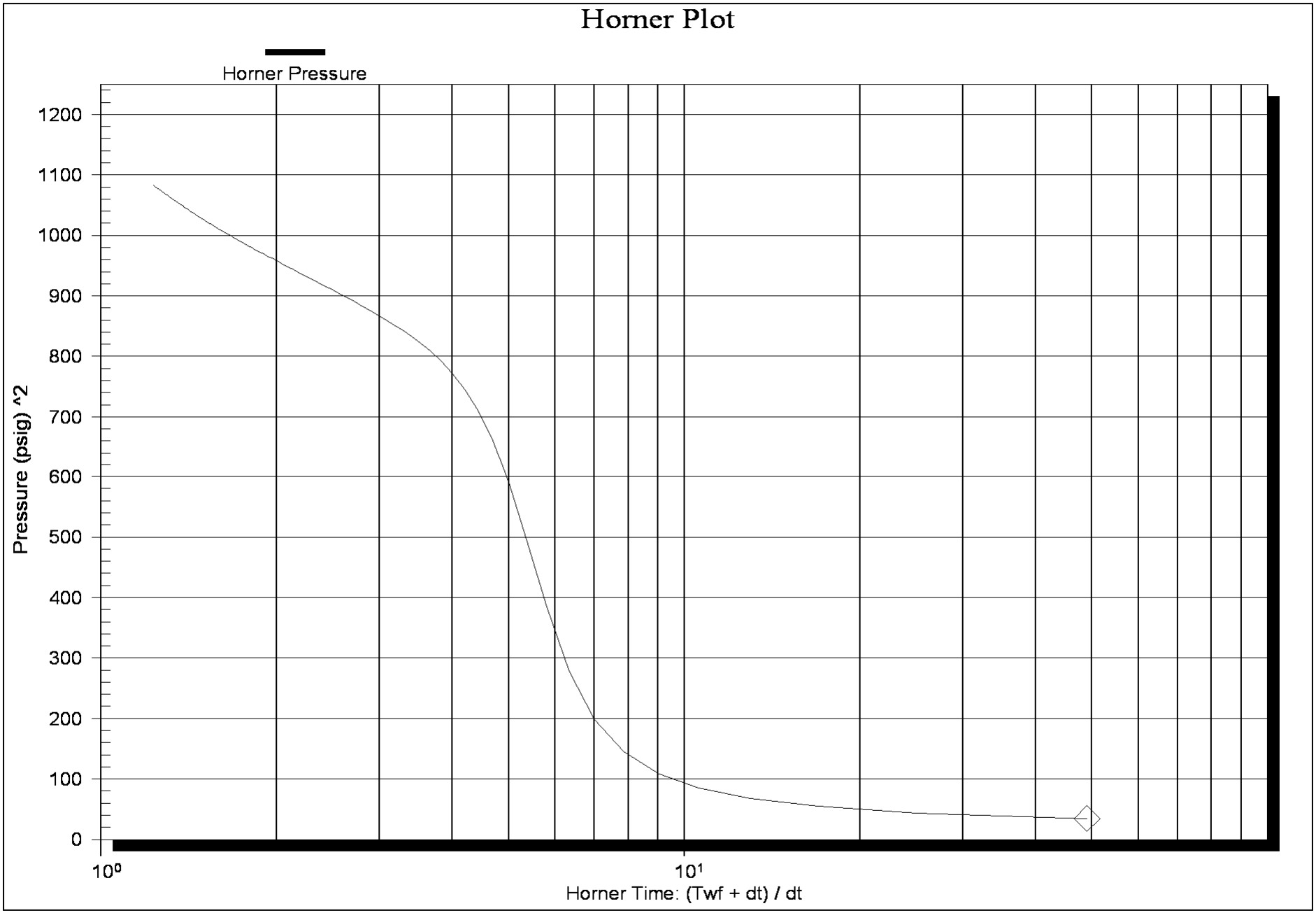
Printing every 6 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	360.7	1653.00	107.7		422.2	75.06	69.5
	362.2	1645.52	107.7		423.7	74.85	69.5
	363.7	1639.23	107.7		425.2	74.70	69.5
	365.2	1663.86	107.3		426.7	74.55	69.5
	366.7	1645.72	107.0		428.2	39.98	69.4
	368.2	1605.53	107.0		429.7	35.22	69.4
	369.7	1654.33	106.7		431.2	34.54	69.4
	371.2	1587.53	104.8		432.7	-1.29	69.6
	372.7	1576.26	102.6		434.2	-1.28	69.6
	374.2	1461.39	101.0		435.7	-1.29	69.6
	375.7	1481.72	99.4		437.2	-1.29	69.6
	377.2	1449.76	98.1		438.7	-1.31	69.6
	378.7	1389.10	96.5		440.2	-1.28	69.6
	380.2	1327.80	95.1		441.7	-1.30	69.6
	381.7	1252.30	93.6		443.2	-1.31	69.6
	383.2	1237.21	92.2		444.7	-1.32	69.6
	384.7	1149.01	91.1		446.2	-1.30	69.5
	386.2	1143.61	90.0		447.7	-1.30	69.5
	387.7	1096.93	89.1		449.2	-1.32	69.5
	389.2	991.80	88.1		450.7	-1.32	69.5
	390.7	990.65	87.5		452.2	-1.32	69.5
	392.2	928.25	87.1		453.7	-1.31	69.5
	393.7	898.32	86.8		455.2	-1.29	69.5
	395.2	822.97	86.3		456.7	-1.30	69.5
	396.7	805.30	86.0		458.2	-1.34	69.5
	398.2	744.37	86.1		459.7	-1.35	69.4
	399.7	712.54	86.2		461.2	-1.33	69.4
	401.2	651.59	85.7		462.7	-1.31	69.4
	402.7	595.02	83.4		464.2	-1.31	69.4
	404.2	560.56	81.5		465.7	-1.34	69.4
	405.7	508.89	80.6		467.2	-1.33	69.4
	407.2	444.50	78.4		468.7	-1.33	69.4
	408.7	408.32	76.0		470.2	-1.33	69.4
	410.2	340.02	74.5		471.7	-1.33	69.4
	411.7	301.48	73.3		473.2	-1.32	69.4
	413.2	257.27	72.3		474.7	-1.30	69.3
	414.7	194.80	71.4		476.2	-1.30	69.3
	416.2	166.83	70.6		477.7	-1.32	69.3
	417.7	108.38	70.0		479.2	-1.34	69.3
	419.2	77.08	69.7		480.7	-1.33	69.3
	420.7	75.10	69.5		482.2	-1.34	69.3

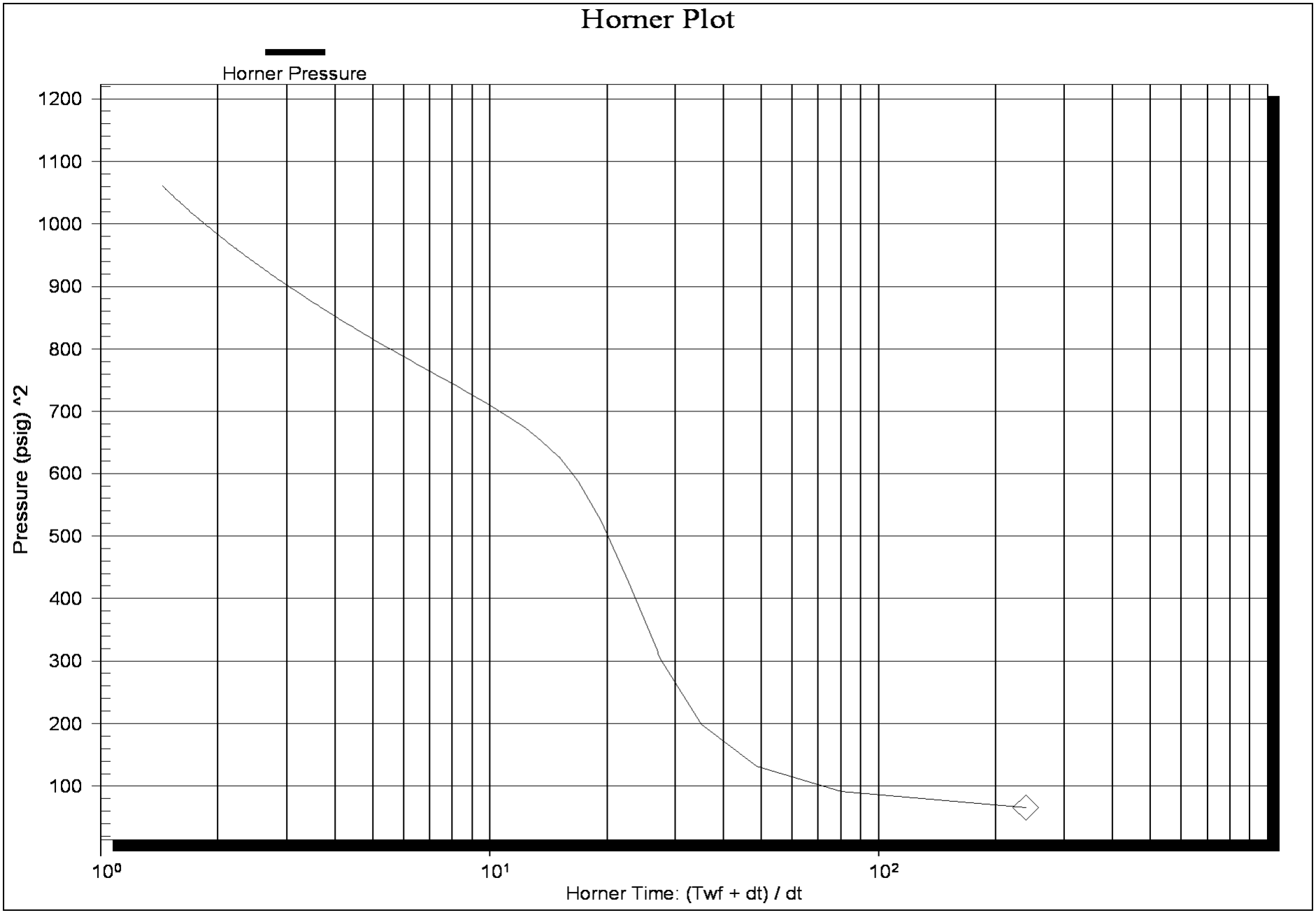
Printing every 6 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	483.7	-1.32	69.3		545.2	-0.99	35.2
	485.2	-1.33	69.3		546.7	-1.04	35.4
	486.7	-1.34	69.3		548.2	-1.02	35.7
	488.2	-1.34	69.3				
	489.7	-1.33	69.3				
	491.2	-1.31	69.3				
	492.7	-1.31	69.3				
	494.2	-1.31	69.3				
	495.7	-1.31	69.3				
	497.2	-1.31	69.3				
	498.7	-1.31	69.3				
	500.2	-1.32	69.3				
	501.7	-1.35	69.2				
	503.2	-1.38	69.2				
	504.7	-1.38	69.2				
	506.2	-1.38	69.2				
	507.7	-1.39	69.2				
	509.2	-1.39	69.2				
	510.7	-1.39	69.2				
	512.2	-1.33	69.2				
	513.7	-1.22	69.2				
	515.2	-1.13	66.8				
	516.7	-0.58	50.0				
	518.2	-0.66	39.1				
	519.7	-0.76	37.9				
	521.2	-0.81	37.5				
	522.7	-0.94	37.2				
	524.2	-1.04	37.0				
	525.7	-1.03	36.0				
	527.2	-1.03	35.3				
	528.7	-1.02	35.0				
	530.2	-1.03	34.7				
	531.7	-1.02	34.7				
	533.2	-1.02	34.6				
	534.7	-1.03	34.6				
	536.2	-1.03	34.7				
	537.7	-1.03	34.7				
	539.2	-1.03	34.8				
	540.7	-1.02	34.9				
	542.2	-1.01	35.0				
	543.7	-1.02	35.1				

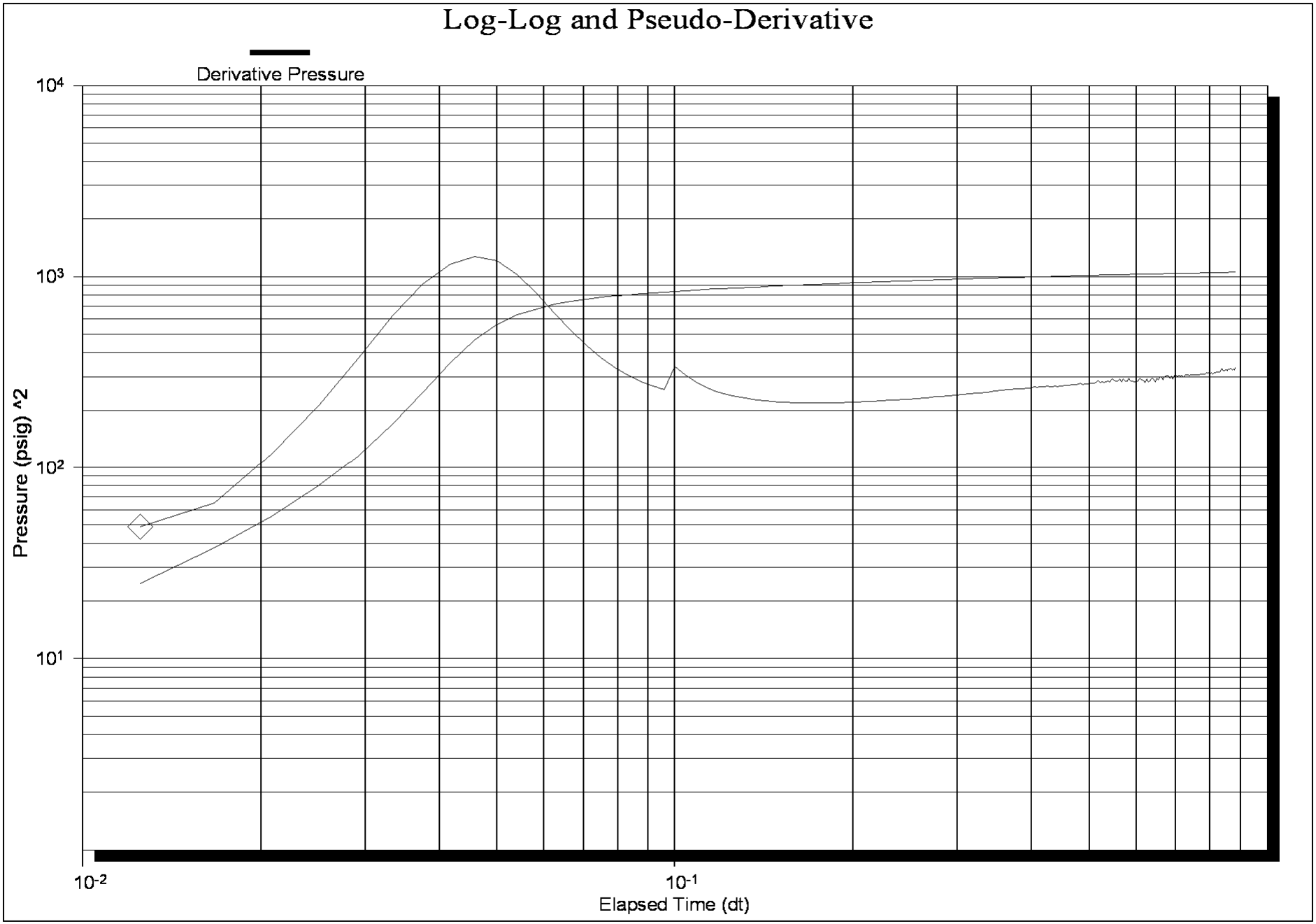
Printing every 6 samples

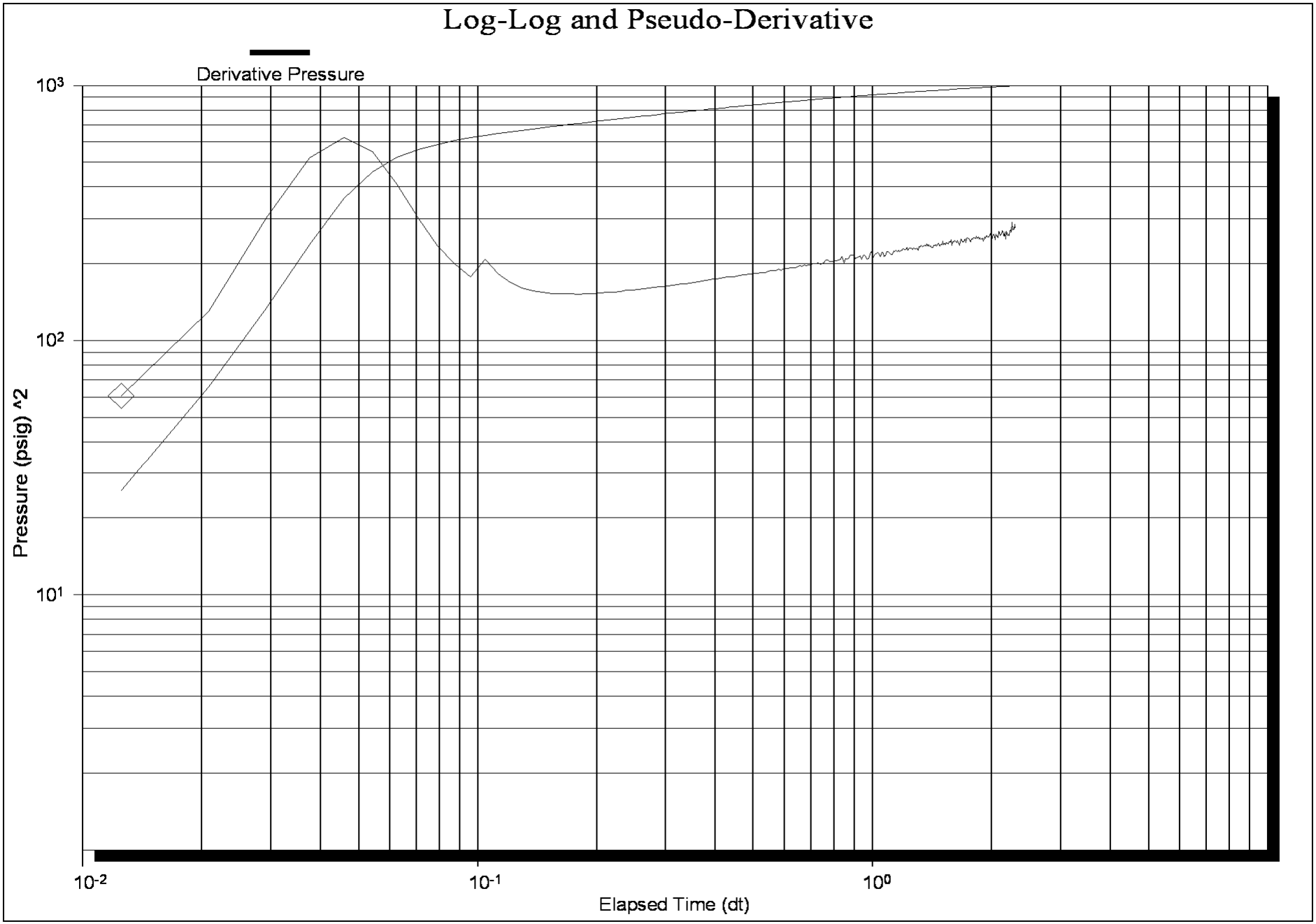


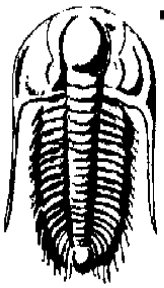
Serial Number: 8673 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 1



Serial Number: 8673 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 2


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (psig) ^2
10^-2
10^-1
Elapsed Time (dt)


Log-Log and Pseudo-Derivative
Derivative Pressure
10³
10²
10¹
Pressure (psig) ^2
10⁻²
10⁻¹
10⁰
Elapsed Time (dt)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary jr & Associates**

1515 Wynkoop
Suite 700
Denver, CO. 80202

ATTN: Neil Sharp

2-16s-17w Rush KS

Younger-Dome #1-2

Start Date: 2011.03.07 @ 19:44:33
End Date: 2011.03.08 @ 03:37:18
Job Ticket #: 41720 DST #: 5

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

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w Rush KS

Job Ticket: 41720 **DST#: 5**

Test Start: 2011.03.07 @ 19:44:33

GENERAL INFORMATION:

Formation: **Abuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:02:33
Time Test Ended: 03:37:18

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3510.00 ft (KB) To 3518.00 ft (KB) (TVD)
Total Depth: 3518.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

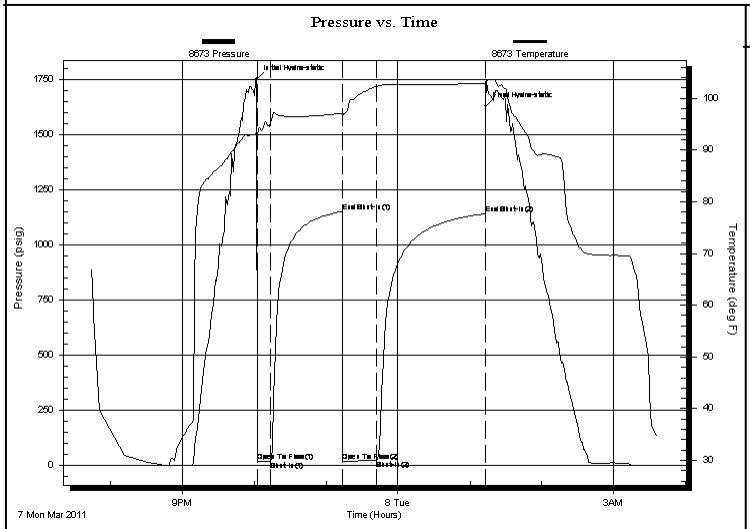
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8673 **Inside**

Press@RunDepth: 22.84 psig @ 3515.00 ft (KB)
Start Date: 2011.03.07 End Date: 2011.03.08
Start Time: 19:44:35 End Time: 03:37:18

Capacity: 8000.00 psig
Last Calib.: 2011.03.08
Time On Btm: 2011.03.07 @ 22:02:18
Time Off Btm: 2011.03.08 @ 01:13:03

TEST COMMENT: IFP-10 Min.-Weak,Built to 1"
ISI-60 Min.-Dead
FFP-30 Min.-WeakBuilt to 1"
FSI-90 Min.-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.56	93.14	Initial Hydro-static
1	17.49	92.52	Open To Flow (1)
12	18.23	95.61	Shut-In(1)
71	1153.04	97.09	End Shut-In(1)
72	19.50	96.47	Open To Flow (2)
100	22.84	102.32	Shut-In(2)
191	1143.14	102.92	End Shut-In(2)
191	1629.45	103.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Muddy Wtr W/Oil Scum-1%O-94%W-5%M	0.21

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w Rush KS

Job Ticket: 41720 **DST#: 5**

Test Start: 2011.03.07 @ 19:44:33

GENERAL INFORMATION:

Formation: **Abuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:02:33
Time Test Ended: 03:37:18

Test Type: Conventional Bottom Hole
Tester: JasonMcLemore
Unit No: 54

Interval: 3510.00 ft (KB) To 3518.00 ft (KB) (TVD)
Total Depth: 3518.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

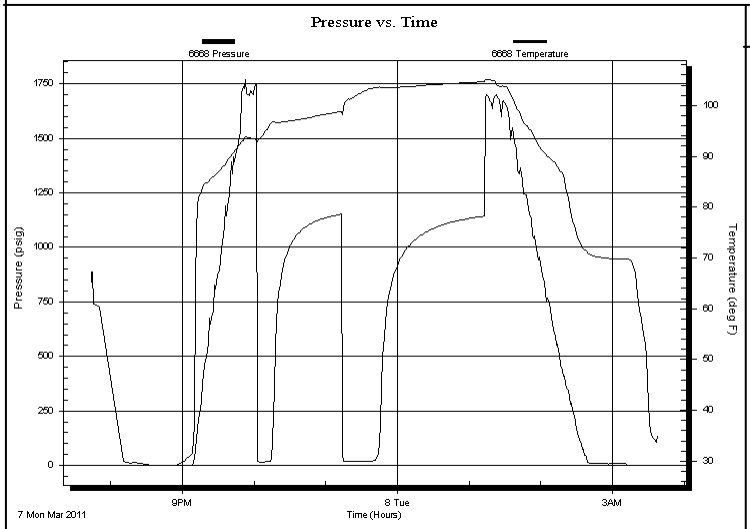
Reference Elevations: 1913.00 ft (KB)
1903.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6668 **Outside**

Press@RunDepth: psig @ 3515.00 ft (KB)
Start Date: 2011.03.07 End Date: 2011.03.08
Start Time: 19:44:05 End Time: 03:37:48

Capacity: 8000.00 psig
Last Calib.: 2011.03.08
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-10 Min.-Weak,Built to 1"
ISI-60 Min.-Dead
FFP-30 Min.-WeakBuilt to 1"
FSI-90 Min.-Dead



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Muddy Wtr W/Oil Scum-1%O-94%W-5%M	0.21

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w Rush KS

Job Ticket: 41720 **DST#: 5**

Test Start: 2011.03.07 @ 19:44:33

Tool Information

Drill Pipe:	Length:	3503.00 ft	Diameter:	3.80 inches	Volume:	49.14 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	49.14 bbl	

Drill Pipe Above KB:	28.00 ft
Depth to Top Packer:	3510.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	8.00 ft
Tool Length:	43.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2000.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	50000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	41000.00 lb
Final	41000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Recorder	0.00	6755	Fluid	3475.00		
Change Over Sub	5.00			3480.00		
Shut In Tool	5.00			3485.00		
Sampler	3.00			3488.00		
Hydraulic tool	5.00			3493.00		
Jars	5.00			3498.00		
Safety Joint	2.00			3500.00		
Packer	5.00			3505.00	35.00	Bottom Of Top Packer
Packer	5.00			3510.00		
Stubb	1.00			3511.00		
Perforations	4.00			3515.00		
Recorder	0.00	8673	Inside	3515.00		
Recorder	0.00	6668	Outside	3515.00		
Bullnose	3.00			3518.00	8.00	Bottom Packers & Anchor
Total Tool Length:	**43.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202

ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w Rush KS

Job Ticket: 41720 **DST#: 5**

Test Start: 2011.03.07 @ 19:44:33

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:	35000 ppm
Viscosity:	68.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8300.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Muddy Wtr W/Oil Scum-1%O-94%W-5%M	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler-110#, 2500ml Salt Wtr-500ml Mud

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w Rush KS

Job Ticket: 41720 **DST#: 5**

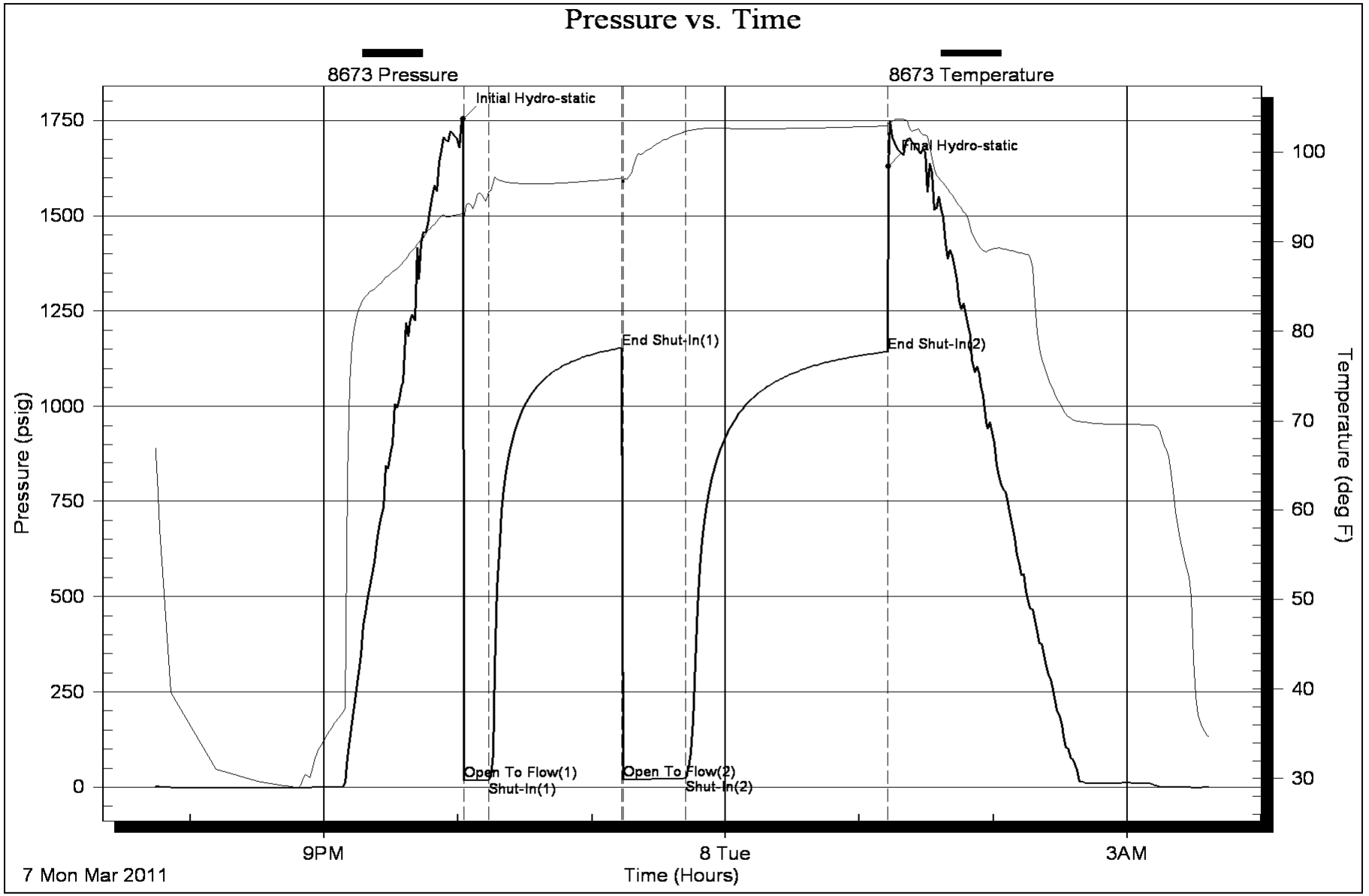
Test Start: 2011.03.07 @ 19:44:33

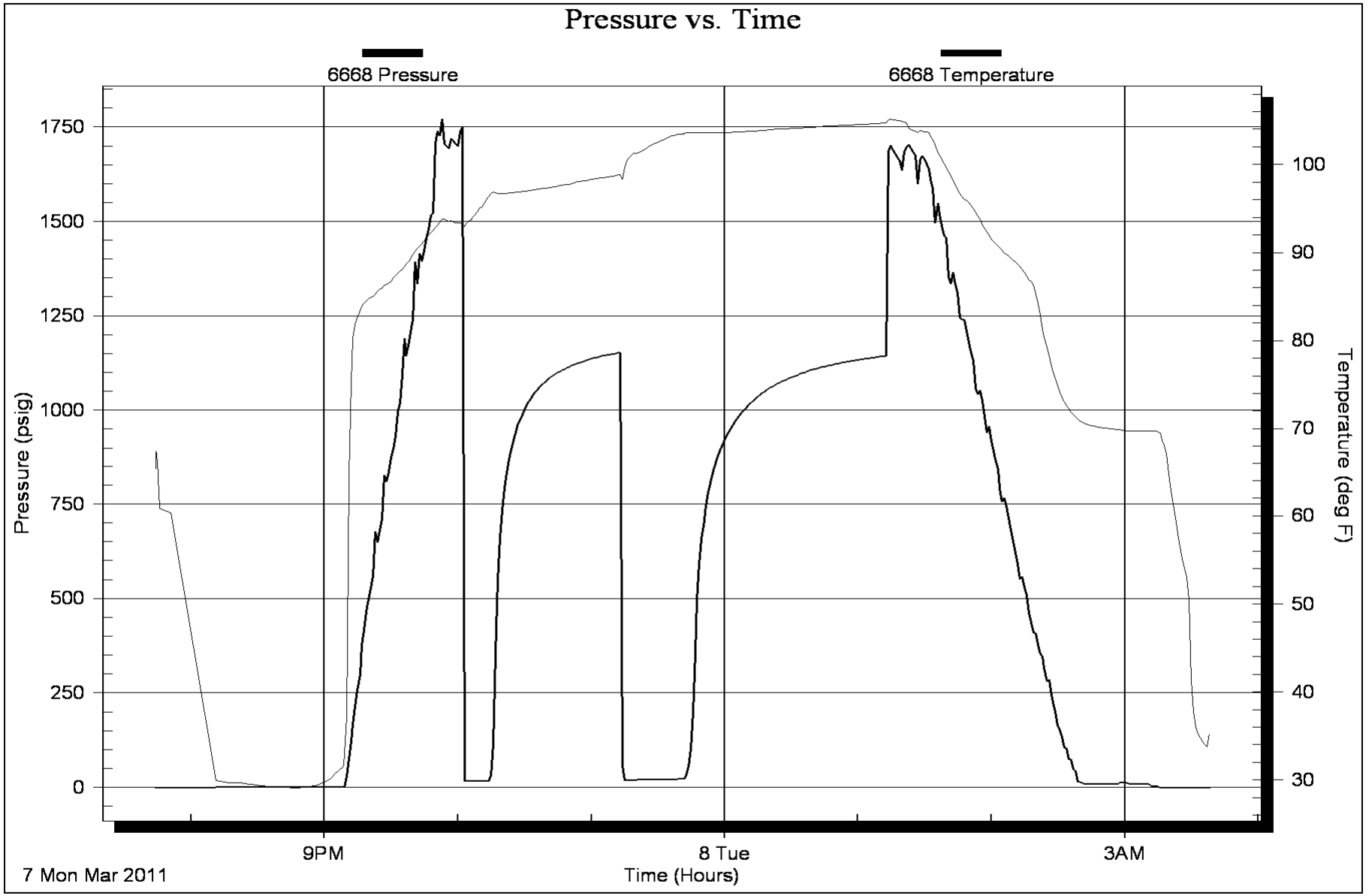
Gas Rates Information

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
8673 Pressure
8673 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
1750
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40
30
9PM
8 Tue
3AM
7 Mon Mar 2011
Time (Hours)


Pressure vs. Time
6668 Pressure
6668 Temperature
1750
1500
1250
1000
750
500
250
0
Pressure (psig)
100
90
80
70
60
50
40
30
Temperature (deg F)
9PM
8 Tue
3AM
7 Mon Mar 2011
Time (Hours)

DRILL STEM TESTING - DATA LISTING

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w Rush KS

Job Ticket: 41720 **DST#: 5**

Test Start: 2011.03.07 @ 19:44:33

Serial # 8673 Inside

Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	2.74	66.8
	0.2	2.59	66.1
	0.4	2.40	65.2
	0.6	2.24	64.0
	0.8	2.08	62.9
	1.0	1.91	61.9
	1.2	1.77	61.0
	1.4	1.63	60.0
	1.6	1.53	59.2
	1.8	1.49	58.2
	7.0	-1.04	39.6
	37.0	-1.79	30.2
	48.0	-1.81	29.6
	49.5	-1.80	29.5
	51.0	-1.79	29.5
	52.5	-1.80	29.4
	54.0	-1.80	29.3
	55.5	-1.80	29.3
	57.0	-1.80	29.2
	58.5	-1.79	29.2
	60.0	-1.75	29.1
	61.5	-1.76	29.1
	63.0	-1.69	29.0
	64.5	-1.61	29.0
	66.0	-1.55	30.0
	67.5	-1.48	30.3
	69.0	-1.32	30.1
	70.5	-1.14	31.5
	72.0	-1.00	32.7
	73.5	-0.85	33.5
	75.0	-0.73	34.1
	76.5	-0.61	34.7
	78.0	-0.50	35.3

Serial # 8673 Inside

Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	79.5	-0.39	35.9
	81.0	-0.32	36.4
	82.5	-0.29	36.9
	84.0	-0.23	37.5
	85.5	31.84	55.9
	87.0	123.58	74.2
	88.5	168.51	79.6
	90.0	256.82	81.6
	91.5	344.90	82.7
	93.0	426.01	83.6
	94.5	466.16	84.0
	96.0	528.33	84.4
	97.5	591.71	84.6
	99.0	642.97	85.0
	100.5	748.44	85.4
	102.0	732.14	85.7
	103.5	810.01	86.1
	105.0	872.75	86.4
	106.5	929.86	86.7
	108.0	996.71	87.0
	109.5	1132.49	87.4
	111.0	1062.44	87.8
	112.5	1143.62	88.2
	114.0	1220.80	88.7
	115.5	1266.43	89.1
	117.0	1415.18	89.7
	118.5	1358.79	90.0
	120.0	1457.20	90.4
	121.5	1415.16	91.1
	123.0	1518.10	91.5
	124.5	1560.27	91.8
	126.0	1564.30	92.2
	127.5	1671.67	92.7

Printing every 6 samples

Serial # 8673 Inside				Serial # 8673 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	129.0	1705.06	93.0		177.0	1086.32	96.5
	130.5	1696.20	92.8		178.5	1092.46	96.5
	132.0	1721.99	92.7		180.0	1098.13	96.5
	133.5	1711.42	92.9		181.5	1103.15	96.5
	135.0	1701.67	93.0		183.0	1108.09	96.6
	136.5	1748.49	93.1		184.5	1112.28	96.6
	137.2	1749.02	93.1		186.0	1116.22	96.6
	137.5	1750.23	93.1		187.5	1120.03	96.6
Initial Hydro-static	137.7	1752.56	93.1		189.0	1123.42	96.7
Open To Flow (1)	138.0	17.49	92.5		190.5	1126.82	96.7
	138.2	18.20	92.9		192.0	1129.83	96.7
	138.5	18.11	93.0		193.5	1132.84	96.7
	140.0	17.18	94.3		195.0	1135.19	96.8
	141.5	17.79	93.9		196.5	1137.57	96.8
	143.0	17.89	94.3		198.0	1139.91	96.8
	144.5	17.23	95.1		199.5	1142.33	96.9
	146.0	17.95	95.2		201.0	1144.22	96.9
	147.5	17.36	94.5		202.5	1146.06	96.9
	148.7	18.28	94.8		204.0	1147.83	97.0
	149.0	18.27	95.2		205.5	1149.43	97.0
Shut-In(1)	149.2	18.23	95.6		207.0	1151.16	97.0
	149.5	18.23	95.7		208.2	1152.50	97.1
	149.7	21.05	95.6		208.5	1152.93	97.1
	150.0	26.36	95.7	End Shut-In(1)	208.7	1153.04	97.1
	151.5	177.35	97.2		209.0	1153.13	97.1
	153.0	521.95	97.0	Open To Flow (2)	209.2	19.50	96.5
	154.5	686.73	96.8		209.5	19.38	96.7
	156.0	781.90	96.7		211.0	19.31	97.0
	157.5	845.00	96.6		212.5	19.56	97.4
	159.0	891.07	96.6		214.0	19.74	98.6
	160.5	926.85	96.5		215.5	19.95	99.6
	162.0	955.65	96.5		217.0	20.11	99.8
	163.5	979.40	96.5		218.5	20.30	99.9
	165.0	999.07	96.5		220.0	20.48	100.1
	166.5	1015.81	96.5		221.5	20.69	100.4
	168.0	1030.14	96.5		223.0	20.90	100.7
	169.5	1042.51	96.5		224.5	21.09	100.9
	171.0	1053.55	96.5		226.0	21.31	101.1
	172.5	1063.06	96.5		227.5	21.52	101.3
	174.0	1071.68	96.5		229.0	21.69	101.5
	175.5	1079.53	96.5		230.5	21.89	101.7

Printing every 6 samples

Serial # 8673 Inside				Serial # 8673 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	232.0	22.08	101.8		286.2	1088.38	102.7
	233.5	22.29	101.9		287.7	1091.42	102.7
	235.0	22.46	102.1		289.2	1094.73	102.7
	236.5	22.58	102.2		290.7	1098.00	102.7
	237.0	22.62	102.3		292.2	1101.05	102.7
	237.2	22.68	102.3		293.7	1103.90	102.7
Shut-In(2)	237.5	22.84	102.3		295.2	1106.31	102.7
	237.7	26.24	102.3		296.7	1108.75	102.7
	238.0	29.66	102.4		298.2	1111.29	102.7
	238.2	33.52	102.4		299.7	1113.64	102.7
	239.7	77.32	102.4		301.2	1115.76	102.7
	241.2	208.22	102.5		302.7	1117.82	102.7
	242.7	440.00	102.6		304.2	1119.98	102.7
	244.2	595.17	102.6		305.7	1121.82	102.7
	245.7	686.28	102.6		307.2	1123.64	102.8
	247.2	747.97	102.7		308.7	1125.49	102.8
	248.7	794.39	102.7		310.2	1127.15	102.8
	250.2	831.45	102.7		311.7	1128.77	102.8
	251.7	862.05	102.7		313.2	1130.37	102.8
	253.2	887.77	102.7		314.7	1131.90	102.8
	254.7	910.07	102.6		316.2	1133.28	102.8
	256.2	929.12	102.6		317.7	1134.69	102.8
	257.7	946.18	102.6		319.2	1136.06	102.8
	259.2	961.02	102.6		320.7	1137.32	102.9
	260.7	974.35	102.6		322.2	1138.55	102.9
	262.2	986.26	102.6		323.7	1139.84	102.9
	263.7	997.12	102.6		325.2	1141.06	102.9
	265.2	1007.09	102.6		326.7	1142.12	102.9
	266.7	1015.95	102.6		327.7	1142.96	102.9
	268.2	1024.33	102.6		328.0	1143.07	102.9
	269.7	1031.93	102.6	End Shut-In(2)	328.2	1143.14	102.9
	271.2	1038.90	102.6	Final Hydro-static	328.5	1629.45	103.2
	272.7	1045.53	102.6		328.7	1591.40	103.2
	274.2	1051.63	102.6		329.0	1747.44	103.2
	275.7	1057.22	102.6		330.5	1698.82	103.6
	277.2	1062.45	102.6		332.0	1681.77	103.7
	278.7	1067.52	102.6		333.5	1668.18	103.6
	280.2	1072.12	102.6		335.0	1657.84	103.6
	281.7	1076.41	102.6		336.5	1679.41	103.5
	283.2	1080.51	102.6		338.0	1703.27	102.7
	284.7	1084.43	102.6		339.5	1690.27	102.4

Printing every 6 samples

Serial # 8673 Inside				Serial # 8673 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	341.0	1678.04	102.5		402.5	254.36	73.3
	342.5	1617.00	102.5		404.0	203.24	72.5
	344.0	1674.30	101.9		405.5	165.35	71.8
	345.5	1663.01	102.0		407.0	134.47	71.1
	347.0	1637.93	100.5		408.5	103.73	70.6
	348.5	1608.68	98.6		410.0	75.23	70.3
	350.0	1518.92	97.4		411.5	74.06	70.1
	351.5	1463.54	97.0		413.0	44.75	70.0
	353.0	1493.08	96.5		414.5	14.68	69.9
	354.5	1456.81	96.0		416.0	13.12	69.9
	356.0	1411.05	95.5		417.5	8.96	69.8
	357.5	1333.01	95.1		419.0	8.89	69.8
	359.0	1334.65	94.3		420.5	8.89	69.7
	360.5	1304.10	93.9		422.0	8.88	69.7
	362.0	1269.64	93.3		423.5	8.90	69.7
	363.5	1174.11	93.0		425.0	8.88	69.7
	365.0	1185.16	91.6		426.5	8.84	69.7
	366.5	1146.17	90.6		428.0	8.80	69.7
	368.0	1105.07	89.9		429.5	8.77	69.6
	369.5	1037.39	89.5		431.0	8.74	69.6
	371.0	1028.35	89.0		432.5	8.55	69.6
	372.5	992.39	89.0		434.0	12.64	69.7
	374.0	959.44	89.1		435.5	12.81	69.7
	375.5	928.93	89.2		437.0	10.82	69.7
	377.0	845.80	89.3		438.5	10.07	69.6
	378.5	837.34	89.3		440.0	9.86	69.6
	380.0	779.56	89.2		441.5	9.83	69.6
	381.5	725.30	89.1		443.0	9.91	69.6
	383.0	712.75	89.0		444.5	9.93	69.6
	384.5	680.65	89.0		446.0	10.08	69.6
	386.0	608.65	88.8		447.5	4.93	69.5
	387.5	589.91	88.8		449.0	3.68	69.3
	389.0	558.61	88.7		450.5	-0.16	68.5
	390.5	528.83	88.6		452.0	0.15	67.2
	392.0	466.39	88.2		453.5	0.31	66.3
	393.5	438.29	86.2		455.0	-1.01	64.2
	395.0	406.96	79.8		456.5	-1.09	60.9
	396.5	376.49	77.3		458.0	0.40	58.3
	398.0	346.17	76.1		459.5	0.35	56.3
	399.5	315.36	74.9		461.0	0.34	54.5
	401.0	284.08	74.0		462.5	0.34	53.0

Printing every 6 samples

Serial # 8673 Inside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	464.0	-0.93	50.3				
	465.5	-1.48	40.9				
	467.0	-1.63	37.1				
	468.5	-1.20	35.9				
	470.0	-0.67	35.2				
	471.5	-0.25	34.7				
	472.7	-0.13	35.1				

Printing every 5 samples

DRILL STEM TESTING - DATA LISTING

Samuel Gary jr & Associates

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Neil Sharp

Younger-Dome #1-2

2-16s-17w Rush KS

Job Ticket: 41720 **DST#: 5**

Test Start: 2011.03.07 @ 19:44:33

Serial # 6668	**Outside**			**Serial # 6668**	**Outside**		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.19	65.4		57.0	0.69	29.1
	0.2	-1.19	66.9		58.2	0.72	29.1
	0.3	-1.17	67.3		59.5	0.74	29.1
	0.5	-1.14	66.9		60.7	0.78	29.1
	0.7	-1.10	66.2		62.0	0.80	29.1
	0.8	-1.06	65.5		63.2	0.76	29.1
	1.0	-1.05	64.7		64.5	0.72	29.1
	1.2	-1.03	63.9		65.7	0.67	29.2
	1.3	-1.03	63.2		67.0	0.64	29.2
	1.5	-1.00	62.5		68.2	0.61	29.2
	1.7	-0.92	61.8		69.5	0.57	29.2
	1.8	-0.76	61.0		70.7	0.51	29.3
	7.0	-1.01	60.4		72.0	0.47	29.4
	32.0	-0.72	29.5		73.2	0.42	29.5
	33.2	-0.21	29.7		74.5	0.33	29.6
	34.5	-0.14	29.7		75.7	0.19	29.8
	35.7	-0.08	29.7		77.0	0.01	29.9
	37.0	-0.03	29.7		78.2	-0.20	30.1
	38.2	0.02	29.7		79.5	-0.41	30.4
	39.5	0.07	29.6		80.7	-0.59	30.8
	40.7	0.13	29.6		82.0	-0.69	31.1
	42.0	0.18	29.5		83.2	-0.74	31.3
	43.2	0.25	29.5		84.5	-0.72	31.6
	44.5	0.33	29.4		85.7	31.07	37.1
	45.7	0.41	29.4		87.0	76.60	68.0
	47.0	0.48	29.4		88.2	155.18	77.4
	48.2	0.51	29.3		89.5	212.17	81.5
	49.5	0.56	29.3		90.7	256.14	82.6
	50.7	0.60	29.2		92.0	383.78	83.4
	52.0	0.65	29.2		93.2	387.64	84.1
	53.2	0.68	29.2		94.5	512.11	84.5
	54.5	0.69	29.2		95.7	498.33	84.7
	55.7	0.69	29.1		97.0	584.20	84.9

Printing every 5 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.2	591.90	85.1		149.5	17.03	96.3
	99.5	710.64	85.5		150.7	32.30	96.7
	100.7	680.99	85.9		152.0	160.34	96.8
	102.0	808.82	86.0		153.2	465.87	96.7
	103.2	773.80	86.4		154.5	637.82	96.7
	104.5	841.33	86.6		155.7	734.96	96.7
	105.7	871.89	86.7		157.0	803.05	96.7
	107.0	930.56	87.2		158.2	851.92	96.7
	108.2	959.79	87.5		159.5	889.94	96.8
	109.5	1018.85	87.8		160.7	920.70	96.8
	110.7	1094.50	88.1		162.0	946.18	96.9
	112.0	1117.26	88.4		163.2	967.73	96.9
	113.2	1255.03	88.9		164.5	986.13	96.9
	114.5	1220.83	89.4		165.7	1001.94	97.0
	115.7	1239.02	89.8		167.0	1015.80	97.0
	117.0	1299.16	90.2		168.2	1028.02	97.1
	118.2	1333.61	90.6		169.5	1038.93	97.1
	119.5	1375.13	90.9		170.7	1048.44	97.1
	120.7	1422.76	91.3		172.0	1057.09	97.2
	122.0	1454.23	91.7		173.2	1064.88	97.2
	123.2	1592.13	92.1		174.5	1071.97	97.3
	124.5	1552.37	92.5		175.7	1078.48	97.3
	125.7	1707.84	92.9		177.0	1084.64	97.4
	127.0	1640.66	93.2		178.2	1089.93	97.4
	128.2	1671.06	93.7		179.5	1094.98	97.5
	129.5	1705.85	94.0		180.7	1099.53	97.6
	130.7	1698.50	93.6		182.0	1103.75	97.6
	132.0	1762.73	93.6		183.2	1107.91	97.7
	133.2	1716.29	93.5		184.5	1111.48	97.7
	134.5	1707.37	93.4		185.7	1114.87	97.8
	135.7	1699.47	93.4		187.0	1118.06	97.8
	137.0	1781.56	93.4		188.2	1121.04	98.0
	138.2	1750.51	93.1		189.5	1123.92	98.0
	139.5	16.78	93.3		190.7	1126.65	98.1
	140.7	16.27	93.5		192.0	1129.17	98.1
	142.0	16.52	93.8		193.2	1131.48	98.2
	143.2	16.54	94.2		194.5	1133.69	98.2
	144.5	16.21	94.5		195.7	1135.96	98.3
	145.7	16.96	95.1		197.0	1137.72	98.3
	147.0	17.08	95.3		198.2	1139.51	98.4
	148.2	17.11	95.9		199.5	1141.41	98.4

Printing every 5 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	200.7	1143.18	98.5		252.0	856.95	103.6
	202.0	1144.58	98.6		253.2	879.53	103.6
	203.2	1146.06	98.6		254.5	899.14	103.6
	204.5	1147.59	98.7		255.7	916.77	103.6
	205.7	1148.81	98.7		257.0	932.22	103.6
	207.0	1150.02	98.8		258.2	946.44	103.6
	208.2	1151.49	98.8		259.5	958.88	103.7
	209.5	1152.70	98.9		260.7	970.30	103.7
	210.7	18.15	99.6		262.0	980.80	103.7
	212.0	18.35	100.5		263.2	990.34	103.7
	213.2	18.62	101.0		264.5	999.21	103.7
	214.5	18.79	101.2		265.7	1007.38	103.8
	215.7	18.97	101.2		267.0	1015.07	103.8
	217.0	19.12	101.4		268.2	1022.08	103.8
	218.2	19.29	101.5		269.5	1028.66	103.8
	219.5	19.44	101.7		270.7	1034.74	103.8
	220.7	19.60	101.8		272.0	1040.56	103.9
	222.0	19.76	102.1		273.2	1046.04	103.9
	223.2	19.91	102.2		274.5	1051.16	103.9
	224.5	20.08	102.4		275.7	1056.12	103.9
	225.7	20.27	102.6		277.0	1060.49	104.0
	227.0	20.45	102.7		278.2	1064.82	104.0
	228.2	20.62	102.8		279.5	1068.92	104.0
	229.5	20.77	103.0		280.7	1072.72	104.0
	230.7	20.93	103.1		282.0	1076.40	104.0
	232.0	21.08	103.3		283.2	1079.88	104.0
	233.2	21.26	103.4		284.5	1083.16	104.1
	234.5	21.43	103.4		285.7	1086.39	104.1
	235.7	21.55	103.5		287.0	1089.31	104.1
	237.0	21.63	103.5		288.2	1092.10	104.1
	238.2	24.51	103.6		289.5	1094.83	104.2
	239.5	48.98	103.6		290.7	1097.70	104.2
	240.7	102.04	103.6		292.0	1100.18	104.2
	242.0	235.99	103.6		293.2	1102.52	104.2
	243.2	431.99	103.6		294.5	1104.97	104.2
	244.5	570.44	103.6		295.7	1107.08	104.2
	245.7	657.60	103.6		297.0	1109.01	104.3
	247.0	717.80	103.6		298.2	1110.94	104.3
	248.2	763.57	103.6		299.5	1112.87	104.3
	249.5	800.33	103.6		300.7	1114.76	104.3
	250.7	830.99	103.6		302.0	1116.48	104.4

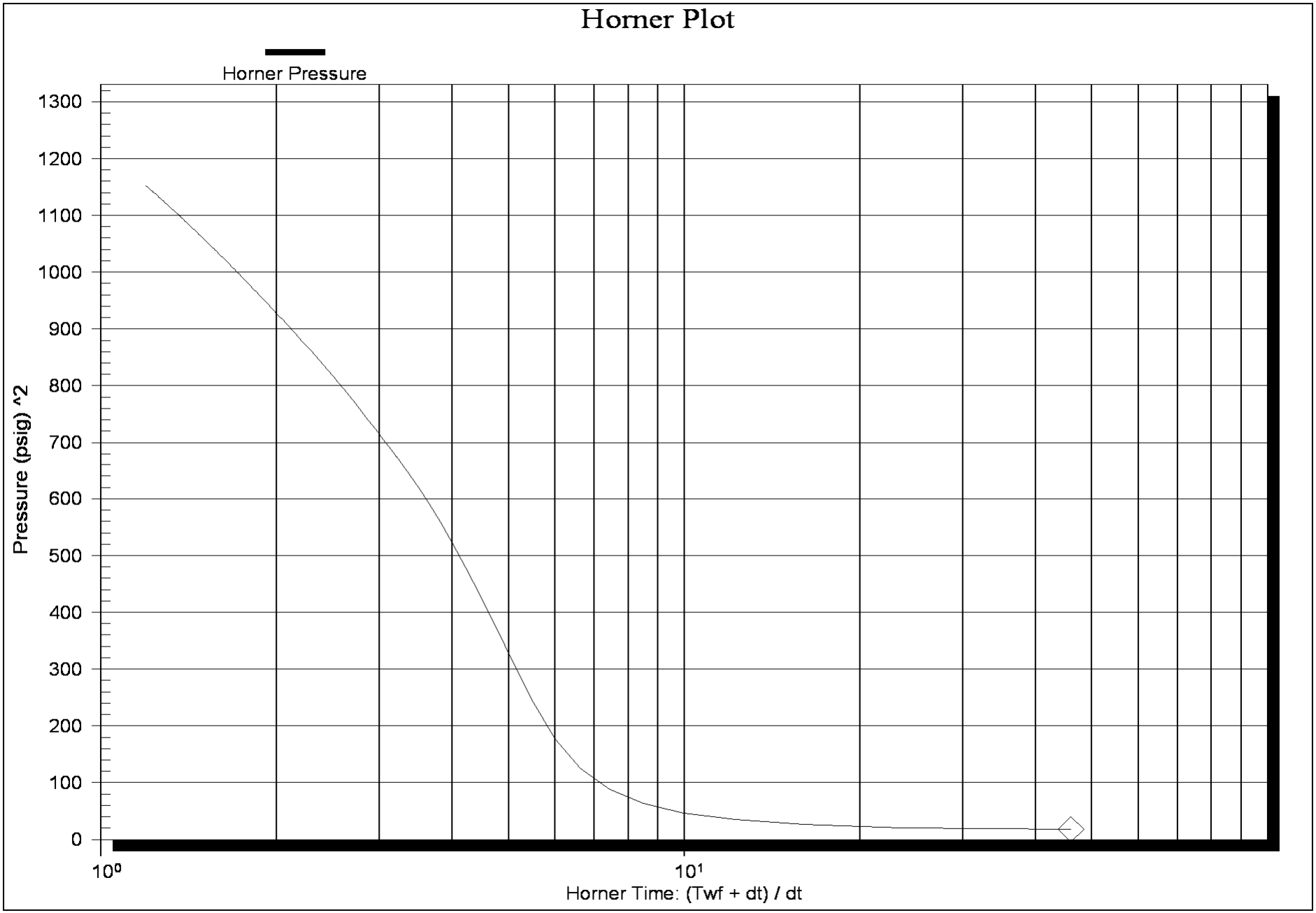
Printing every 5 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	303.2	1118.21	104.4		354.5	1405.70	100.3
	304.5	1120.07	104.4		355.7	1455.78	99.7
	305.7	1121.52	104.4		357.0	1405.38	99.1
	307.0	1123.00	104.4		358.2	1373.77	98.6
	308.2	1124.59	104.5		359.5	1337.85	97.8
	309.5	1126.04	104.5		360.7	1310.48	97.2
	310.7	1127.32	104.5		362.0	1277.27	96.7
	312.0	1128.74	104.5		363.2	1249.91	96.2
	313.2	1129.92	104.5		364.5	1214.05	96.0
	314.5	1131.33	104.5		365.7	1179.11	95.7
	315.7	1132.53	104.5		367.0	1147.60	95.3
	317.0	1133.58	104.5		368.2	1116.38	94.8
	318.2	1134.74	104.5		369.5	1084.91	94.3
	319.5	1135.79	104.6		370.7	1053.23	93.8
	320.7	1136.99	104.6		372.0	1022.90	93.3
	322.0	1138.00	104.6		373.2	990.36	92.5
	323.2	1138.97	104.7		374.5	958.95	92.1
	324.5	1140.07	104.7		375.7	929.66	91.6
	325.7	1141.03	104.7		377.0	898.04	91.2
	327.0	1141.82	104.7		378.2	866.59	90.9
	328.2	1142.92	104.7		379.5	802.17	90.6
	329.5	1765.66	105.1		380.7	755.18	90.3
	330.7	1701.96	105.1		382.0	726.49	89.9
	332.0	1686.66	105.1		383.2	721.23	89.7
	333.2	1674.15	105.0		384.5	684.08	89.4
	334.5	1663.67	105.0		385.7	650.85	89.1
	335.7	1636.39	104.9		387.0	619.89	88.8
	337.0	1680.24	104.8		388.2	589.23	88.5
	338.2	1711.35	104.5		389.5	558.33	88.1
	339.5	1695.17	104.0		390.7	529.00	87.8
	340.7	1684.01	103.9		392.0	497.93	87.0
	342.0	1673.57	103.8		393.2	467.78	86.9
	343.2	1666.13	103.9		394.5	437.45	86.5
	344.5	1674.90	103.9		395.7	407.58	85.4
	345.7	1664.59	103.7		397.0	377.37	83.9
	347.0	1642.76	103.7		398.2	347.85	82.4
	348.2	1615.89	103.6		399.5	317.20	80.8
	349.5	1553.73	102.9		400.7	280.99	79.3
	350.7	1495.31	102.3		402.0	284.26	78.0
	352.0	1466.99	101.4		403.2	234.92	76.9
	353.2	1434.70	100.8		404.5	202.39	75.8

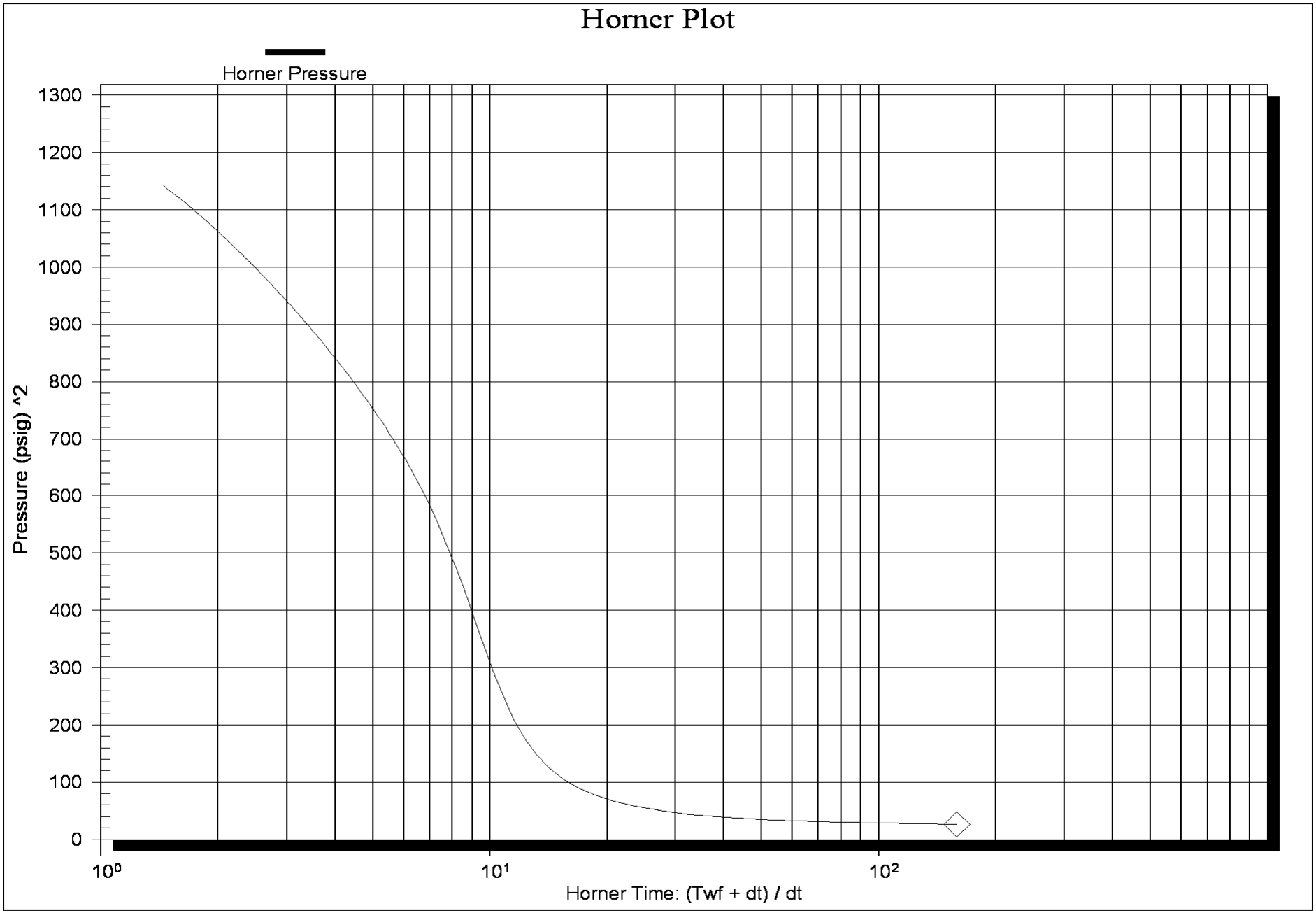
Printing every 5 samples

Serial # 6668 Outside				Serial # 6668 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	405.7	166.22	74.9		457.0	-0.98	62.4
	407.0	134.11	74.0		458.2	-1.09	60.6
	408.2	107.12	73.3		459.5	-1.19	58.4
	409.5	103.19	72.7		460.7	-1.22	56.5
	410.7	74.13	72.3		462.0	-1.20	54.9
	412.0	73.12	71.8		463.2	-1.10	53.6
	413.2	43.83	71.5		464.5	-1.32	51.7
	414.5	14.05	71.2		465.7	-0.93	41.3
	415.7	13.49	70.9		467.0	-0.93	37.3
	417.0	11.29	70.7		468.2	-0.97	35.6
	418.2	7.75	70.6		469.5	-1.02	34.9
	419.5	7.69	70.4		470.7	-1.03	34.4
	420.7	7.65	70.3		472.0	-1.07	34.0
	422.0	7.62	70.3		473.2	-1.10	33.7
	423.2	7.61	70.2		473.7	-1.25	35.2
	424.5	7.62	70.2				
	425.7	7.61	70.1				
	427.0	7.59	70.1				
	428.2	7.55	70.0				
	429.5	7.52	70.0				
	430.7	7.50	70.0				
	432.0	7.50	69.9				
	433.2	6.94	69.9				
	434.5	11.69	69.8				
	435.7	11.77	69.8				
	437.0	11.85	69.8				
	438.2	12.61	69.8				
	439.5	8.96	69.8				
	440.7	8.82	69.8				
	442.0	8.77	69.8				
	443.2	8.81	69.8				
	444.5	8.84	69.7				
	445.7	8.89	69.7				
	447.0	6.19	69.7				
	448.2	2.56	69.7				
	449.5	2.37	69.7				
	450.7	2.22	69.7				
	452.0	-1.40	69.2				
	453.2	-1.22	68.5				
	454.5	-0.91	67.4				
	455.7	-0.90	64.8				

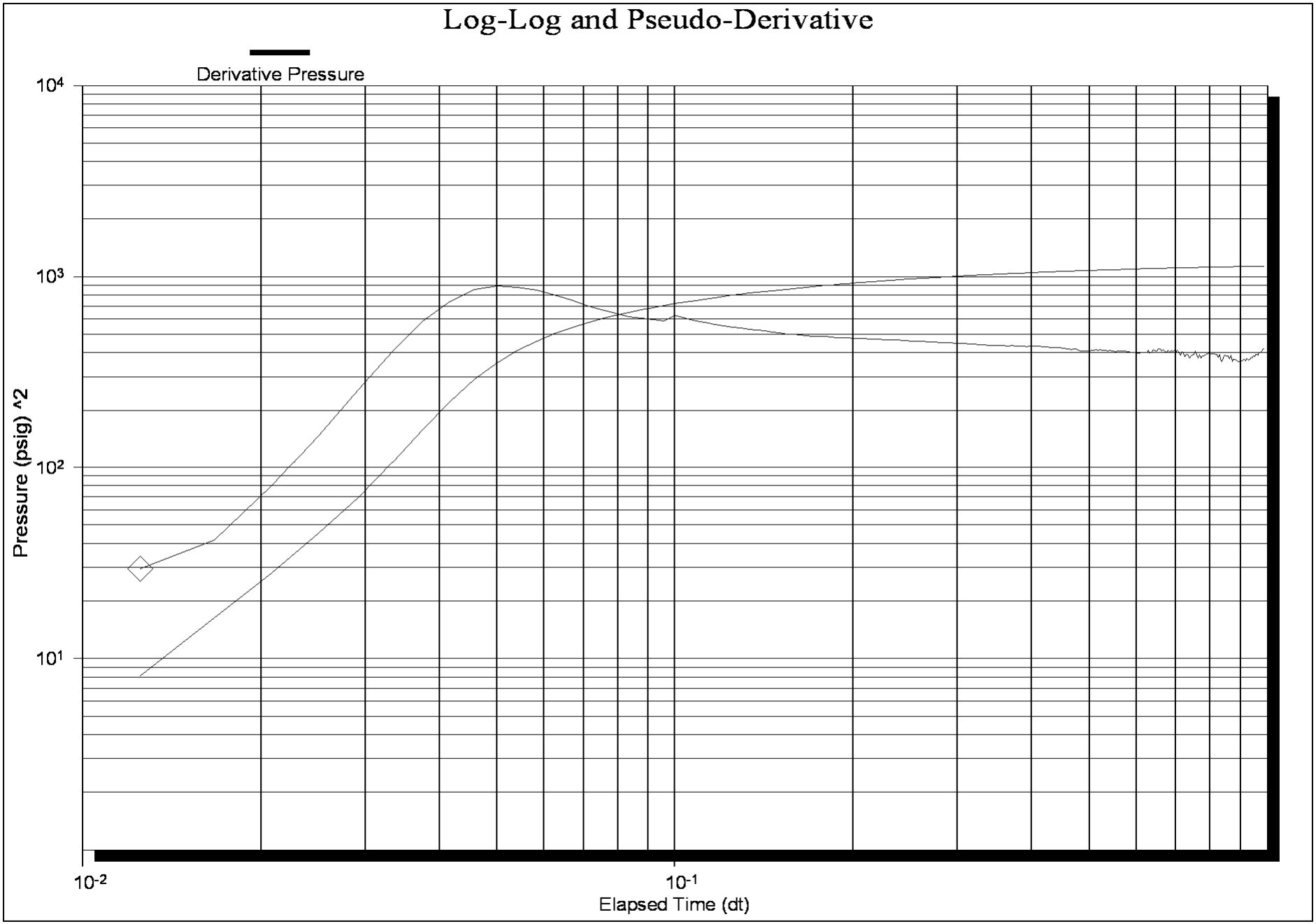
Printing every 5 samples

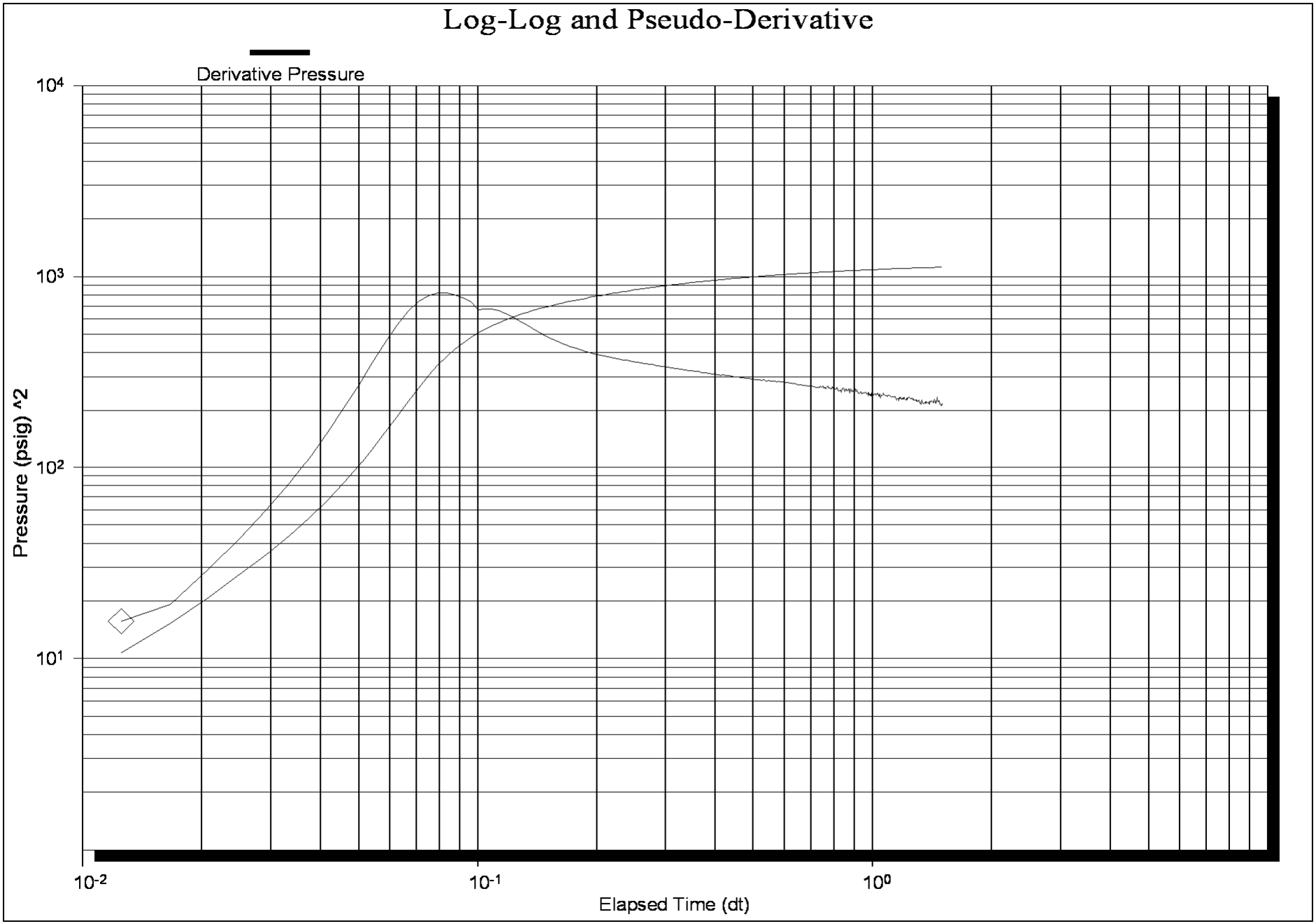


Serial Number: 8673 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 1



Serial Number: 8673 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 2


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (psig) ^2
10^-2
10^-1
Elapsed Time (dt)


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (psig) ^2
10^-2
10^-1
10^0
Elapsed Time (dt)

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

Well Name:	SGA YOUNGER-DOME 1-2		
Location:	Sec 2 16S 17W, RUSH, Kansas		
License Number:	15-165-21915-0000	Region:	Wildcat
Spud Date:	2/23/2011	Drilling Completed:	3/08/2011
Surface Coordinates:	2187' FNL & 750' FWL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	1903'	K.B. Elevation (ft):	1913'
Logged Interval (ft):	1978' To: 3604'	Total Depth (ft):	3604'
Formation:	LANSING/ARBUCKLE		
Type of Drilling Fluid:			

OPERATOR

Company: Sam Gary Jr. & Assoc.
Address: 1515 Wynkoop, # 700
Denver, Colo. 80202
Geologist: MR. Clayton Camozzi

GEOLOGIST

Name: Jason Marshall
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 620-655-1298

GEN. INFO. Report

DST information

DST #1, 3192'-3274', 10,60,30,90
IFP-FAIR BLOW, BUILT TO 6", ISI-DEAD, FFP-STRONG, BOB IN 2 MIN, FSI-BLOW BACK BUILT TO 1 3/4", IH-1583, FH-1525, FIF-50, FFF-57, SIF-64, SFF-83, ISI-986, FSI-918,TOTAL REC FT 85', 20% GAS, 25%, OIL, AN 55% MUD, BHT- 102

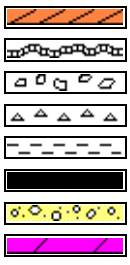
DST #2, 3281'-3304', 10,60,40,135
IFP-GOOD BLOW, BUILT TO 6", ISI-DEAD, FFP-BOB ON OPEN, FSI-BLOW BACK BUILT TO 1/2" IN 20 MIN, IH-1592, FH-1497, FIF-18, FFF-19, SIF-18, SFF-32, ISI-947, FSI-943,TOTAL REC FT 45', 15% GAS, 45%, OIL, AN 40% MUD, BHT- 100

DST #3, 3346'-3405', 10,60,60,180
IFP-FAIR BLOW, BUILT TO 5 1/2", ISI-DEAD, FFP-GOOD BLOW, BOB IN 14 MIN, FSI-DEAD, IH-1666, FH-1550, FIF-35, FFF-43, SIF-47, SFF-84, ISI-1164, FSI-1150,TOTAL REC FT 105', 10% GAS, 30%, OIL, 2% WAT. AN 58% MUD, BHT- 103

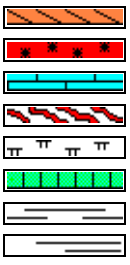
DST #4, 3464'-3498', 10,60,45,135
IFP-GOOD BLOW, BUILT TO 6", ISI-DEAD, FFP-GOOD BLOW, BOB IN 12 MIN, FSI-DEAD, IH-1723, FH-1560, FIF-22, FFF-30, SIF-46, SFF-66, ISI-1084, FSI-1062,TOTAL REC FT 130', 35%, OIL, AN 65% MUD, 100FT FREE OIL BHT- 109

DST #5, 3510'-3518', 10,60,30,90
IFP-WEAK BLOW, BUILT TO 1", ISI-DEAD, FFP-WEAK BLOW, BUILT TO 1", FSI-DEAD, IH-1753, FH-1629, FIF-17, FFF-18, SIF-20, SFF-23, ISI-1153, FSI-1143,TOTAL REC FT 15', 1% OIL, 94%, WAT., AN 5% MUD, BHT- 103

ROCK TYPES

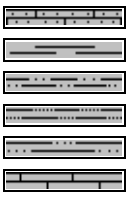


Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol



Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol

Shgy
Sltst
Ss
Till
Carb sh
Dol
Dtd
Gry sh



Sandylms
Shale
Sltstn
Shlyslts
Sltysh
Lms

ACCESSORIES

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- 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
- Slty

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

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

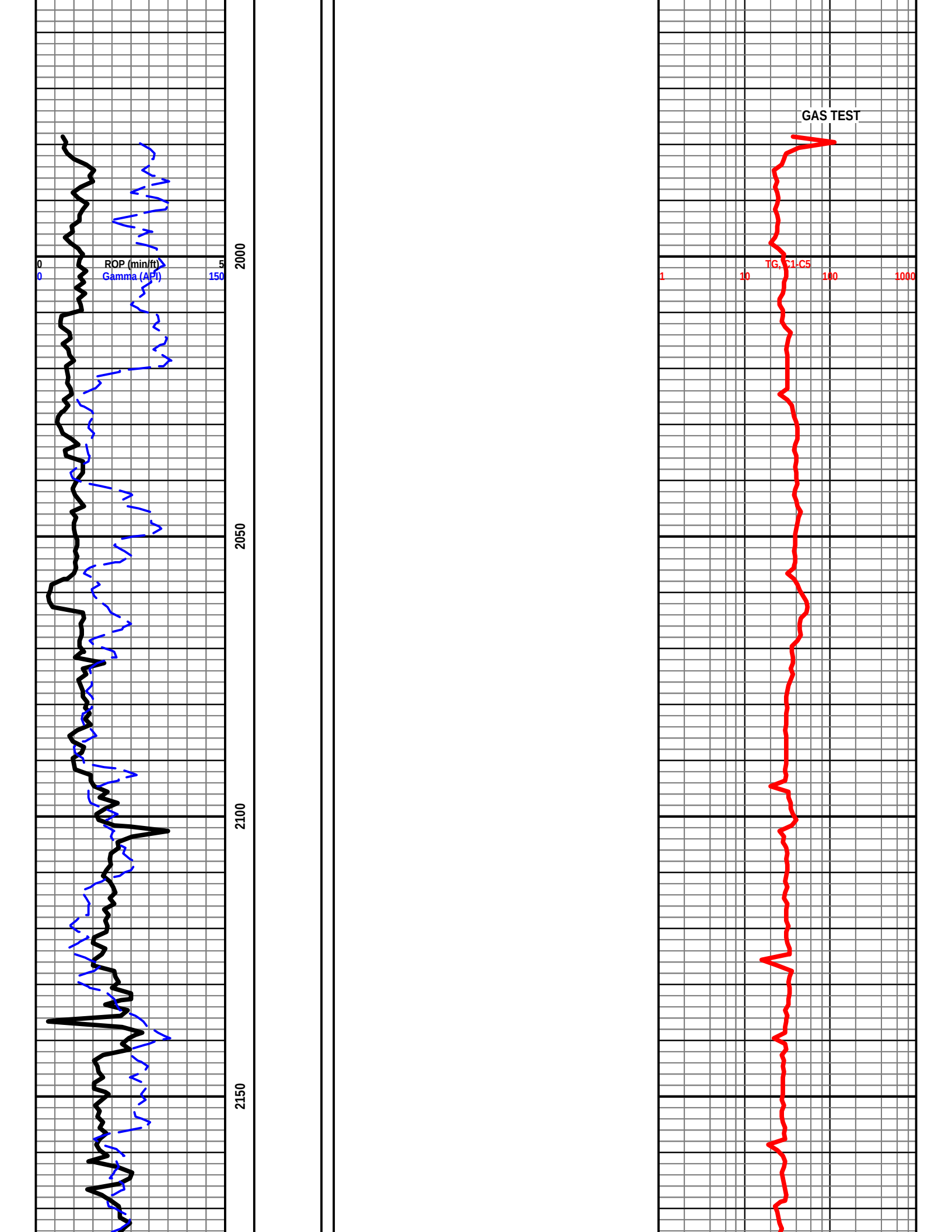
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

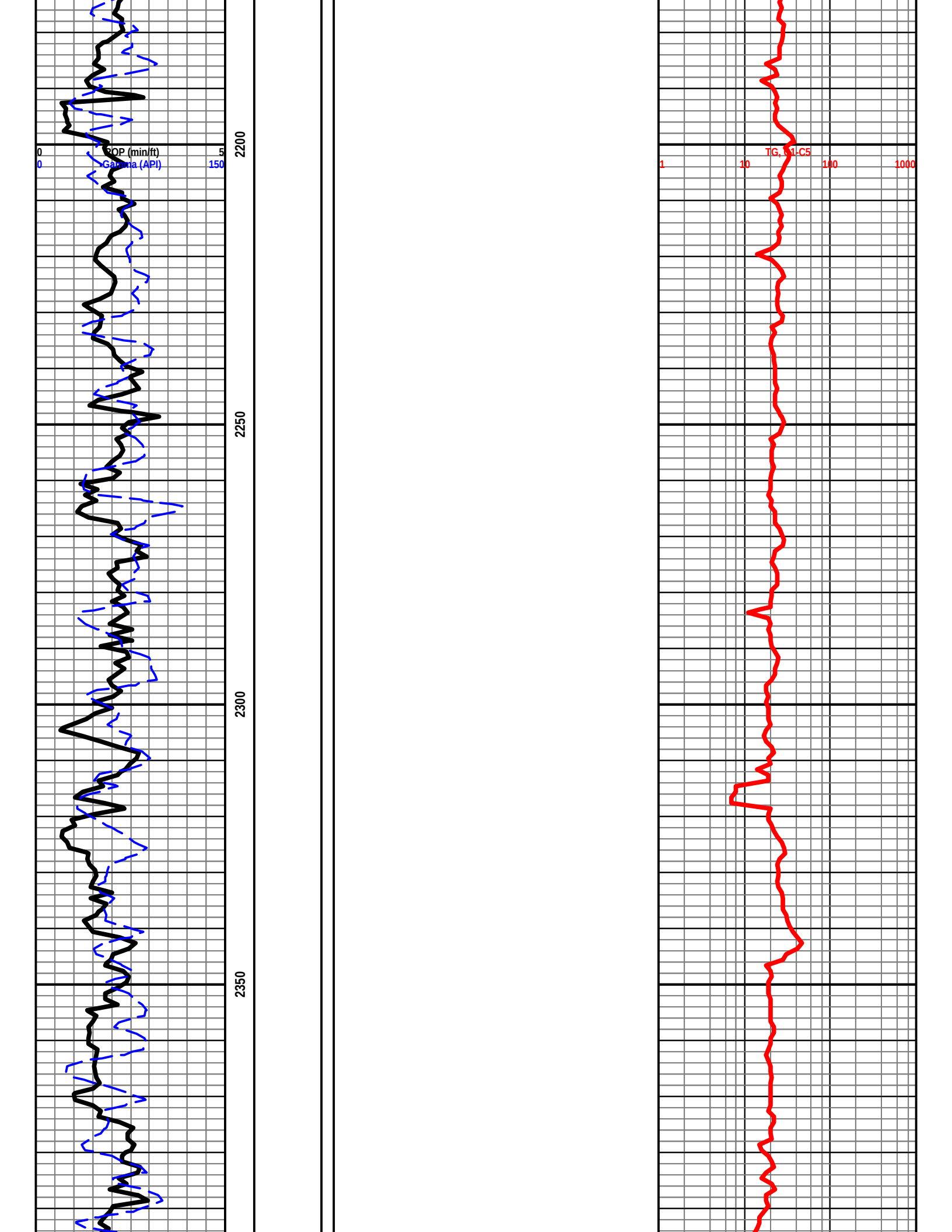
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

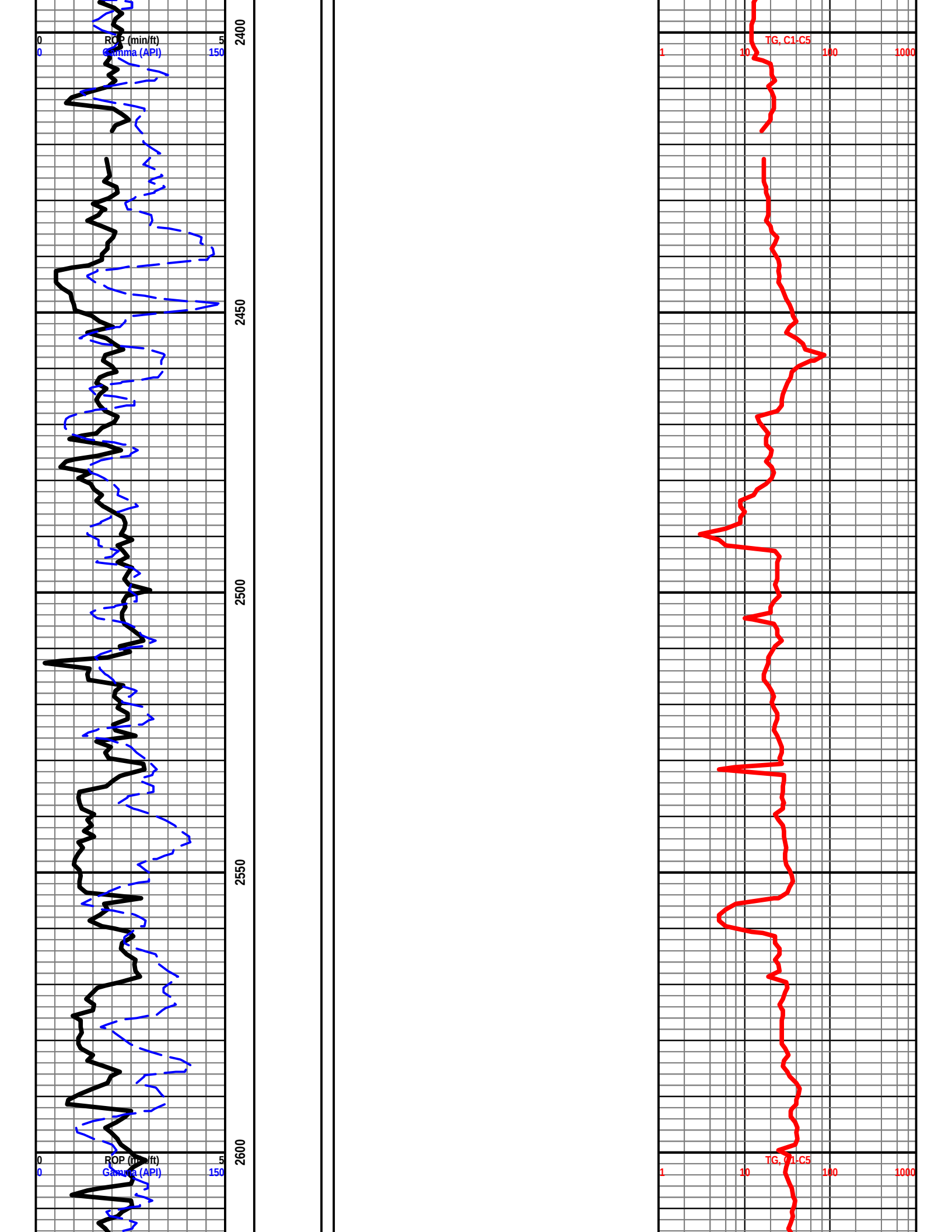
INTERVALS
- Core
- Dst
- Dst

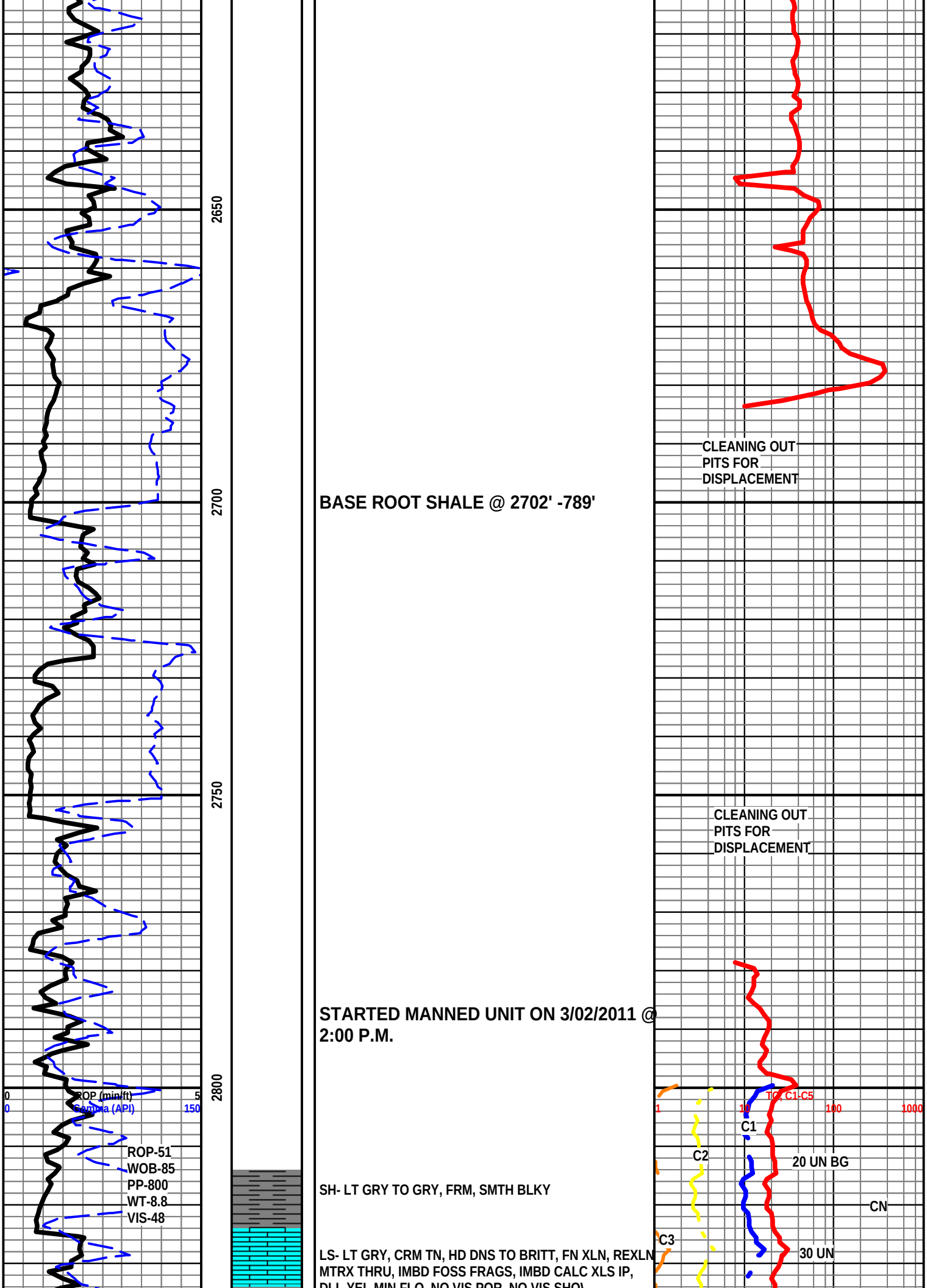
EVENTS
- Rft
- Sidewall

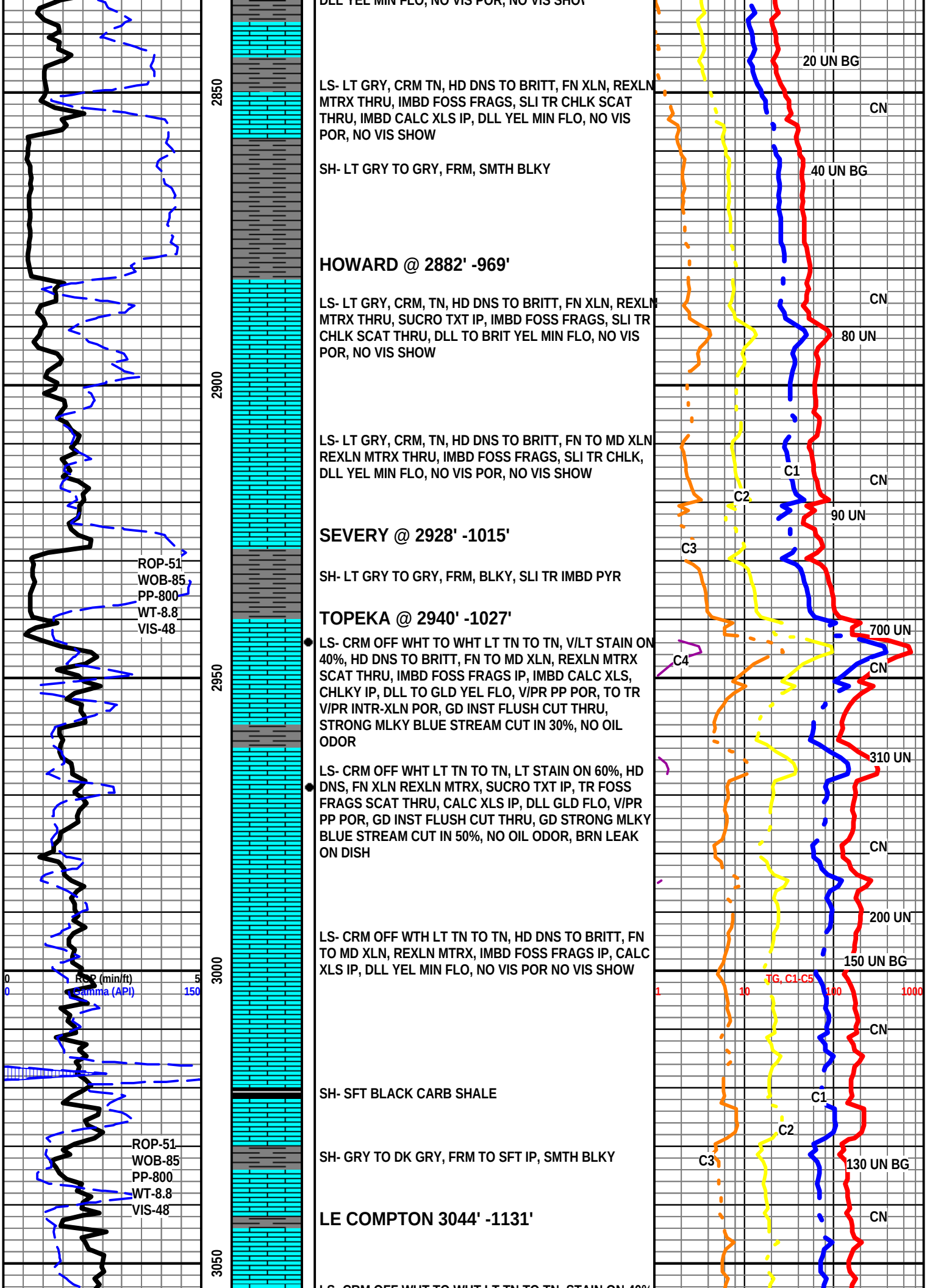
Curve Track 1 ROP (min/ft) Gamma (API)	Depth	Lithology	Oil Shows	Geological Descriptions	TG, C1-C5 TG (units) C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)
0 ROP (min/ft) 5 0 Gamma (API) 150 VAL ENERGY RIG# 6	19 1950			STARTED UNMANNED UNIT ON 3/01-2011 @ 2:00 P.M.	TG, C1-C5 1 10 100 1000 VAL ENERGY RIG# 6

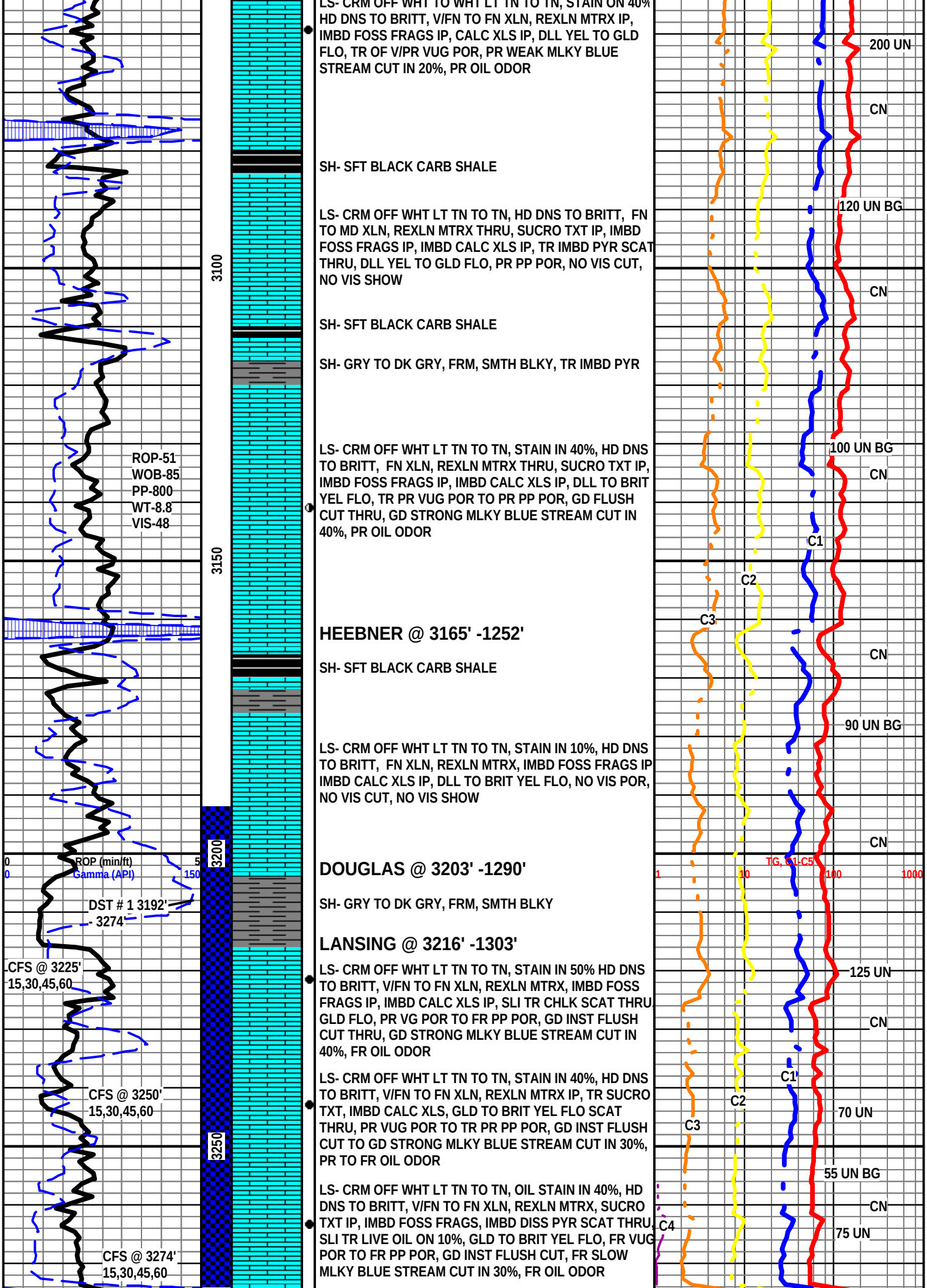

0
ROP (min/ft)
5
0
Gamma (API)
150
2000
2050
2100
2150
GAS TEST
TG, C1-C5
1
10
100
1000

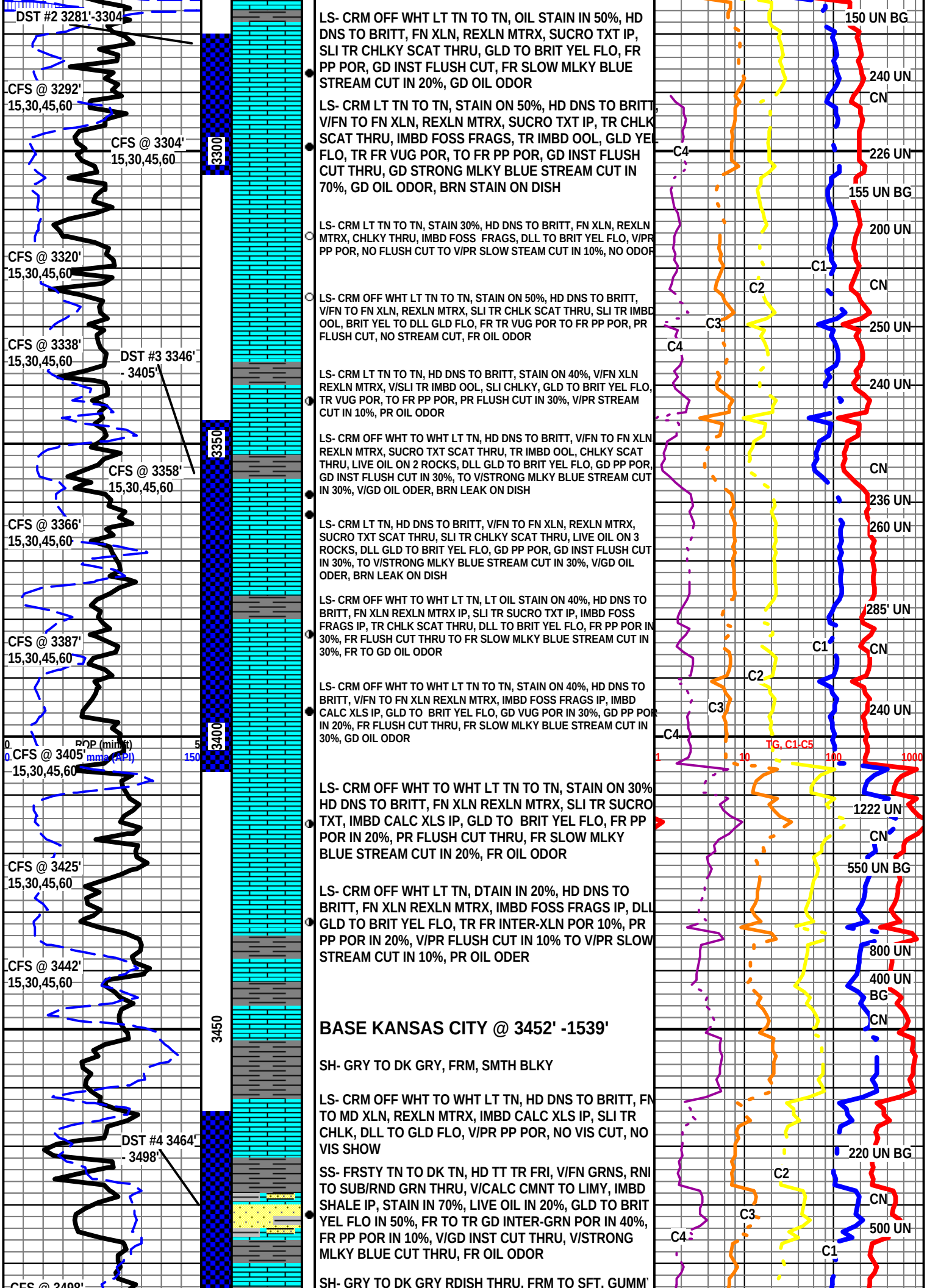

0
ROP (min/ft)
5
0
Gamma (API)
150
2200
2250
2300
2350
TG, C1-C5
1
10
100
1000

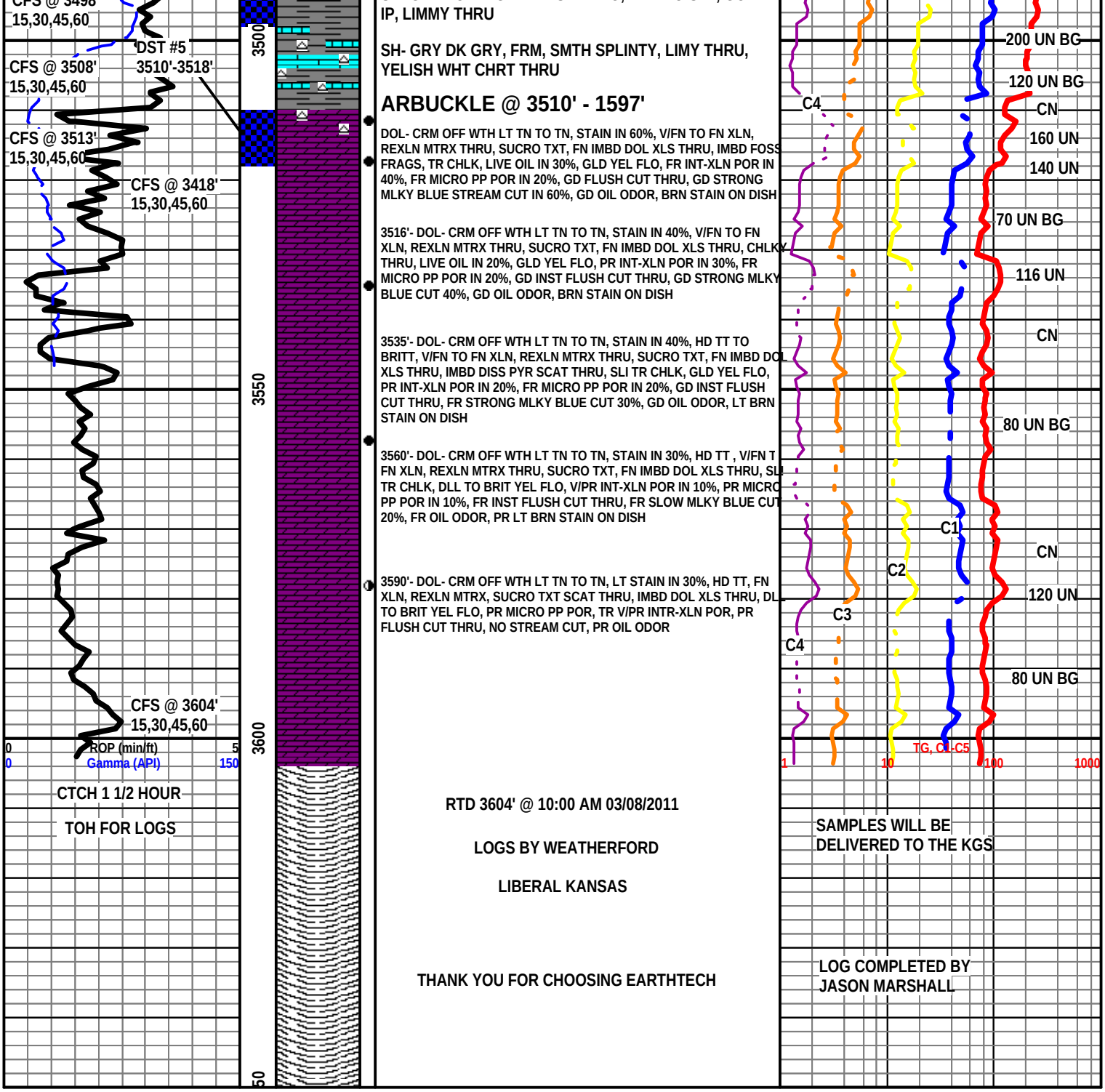

0
ROP (min/ft)
5
0
Gamma (API)
150
2400
2450
2500
2550
2600
TG, C1-C5
1
10
100
1000


2650
2700
2750
2800
BASE ROOT SHALE @ 2702' -789'
CLEANING OUT PITS FOR DISPLACEMENT
CLEANING OUT PITS FOR DISPLACEMENT
STARTED MANNED UNIT ON 3/02/2011 @ 2:00 P.M.
0 ROP (min/ft) 5
0 Gamma (API) 150
ROP-51
WOB-85
PP-800
WT-8.8
VIS-48
SH- LT GRY TO GRY, FRM, SMTH BLKY
LS- LT GRY, CRM TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS, IMBD CALC XLS IP,
TG, C1-C5
1
10
100
1000
C1
C2
C3
20 UN BG
30 UN
CN


DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW
20 UN BG
LS- LT GRY, CRM TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD FOSS FRAGS, SLI TR CHLK SCAT THRU, IMBD CALC XLS IP, DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW
CN
SH- LT GRY TO GRY, FRM, SMTH BLKY
40 UN BG
2850
HOWARD @ 2882' -969'
LS- LT GRY, CRM, TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT IP, IMBD FOSS FRAGS, SLI TR CHLK SCAT THRU, DLL TO BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW
CN
80 UN
2900
LS- LT GRY, CRM, TN, HD DNS TO BRITT, FN TO MD XLN REXLN MTRX THRU, IMBD FOSS FRAGS, SLI TR CHLK, DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW
C1
CN
C2
90 UN
SEVERY @ 2928' -1015'
C3
ROP-51
WOB-85
PP-800
WT-8.8
VIS-48
SH- LT GRY TO GRY, FRM, BLKY, SLI TR IMBD PYR
TOPEKA @ 2940' -1027'
700 UN
LS- CRM OFF WHT TO WHT LT TN TO TN, V/LT STAIN ON 40%, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX SCAT THRU, IMBD FOSS FRAGS IP, IMBD CALC XLS, CHLKY IP, DLL TO GLD YEL FLO, V/PR PP POR, TO TR V/PR INTR-XLN POR, GD INST FLUSH CUT THRU, STRONG MLKY BLUE STREAM CUT IN 30%, NO OIL ODOR
C4
CN
2950
310 UN
LS- CRM OFF WHT LT TN TO TN, LT STAIN ON 60%, HD DNS, FN XLN REXLN MTRX, SUCRO TXT IP, TR FOSS FRAGS SCAT THRU, CALC XLS IP, DLL GLD FLO, V/PR PP POR, GD INST FLUSH CUT THRU, GD STRONG MLKY BLUE STREAM CUT IN 50%, NO OIL ODOR, BRN LEAK ON DISH
CN
200 UN
LS- CRM OFF WTH LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX, IMBD FOSS FRAGS IP, CALC XLS IP, DLL YEL MIN FLO, NO VIS POR NO VIS SHOW
150 UN BG
0
ROP (min/ft)
5
0
Gamma (API)
150
TG, C1-C5
1
10
100
1000
3000
CN
SH- SFT BLACK CARB SHALE
C1
C2
SH- GRY TO DK GRY, FRM TO SFT IP, SMTH BLKY
C3
130 UN BG
ROP-51
WOB-85
PP-800
WT-8.8
VIS-48
LE COMPTON 3044' -1131'
CN
3050


LS- CRM OFF WHT TO WHT LT TN TO TN, STAIN ON 40% HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX IP, IMBD FOSS FRAGS IP, CALC XLS IP, DLL YEL TO GLD FLO, TR OF V/PR VUG POR, PR WEAK MLKY BLUE STREAM CUT IN 20%, PR OIL ODOR
SH- SFT BLACK CARB SHALE
LS- CRM OFF WHT LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX THRU, SUCRO TXT IP, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, TR IMBD PYR SCAT THRU, DLL YEL TO GLD FLO, PR PP POR, NO VIS CUT, NO VIS SHOW
SH- SFT BLACK CARB SHALE
SH- GRY TO DK GRY, FRM, SMTH BLKY, TR IMBD PYR
LS- CRM OFF WHT LT TN TO TN, STAIN IN 40%, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, SUCRO TXT IP, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, DLL TO BRIT YEL FLO, TR PR VUG POR TO PR PP POR, GD FLUSH CUT THRU, GD STRONG MLKY BLUE STREAM CUT IN 40%, PR OIL ODOR
HEEBNER @ 3165' -1252'
SH- SFT BLACK CARB SHALE
LS- CRM OFF WHT LT TN TO TN, STAIN IN 10%, HD DNS TO BRITT, FN XLN, REXLN MTRX, IMBD FOSS FRAGS IP IMBD CALC XLS IP, DLL TO BRIT YEL FLO, NO VIS POR, NO VIS CUT, NO VIS SHOW
DOUGLAS @ 3203' -1290'
SH- GRY TO DK GRY, FRM, SMTH BLKY
LANSING @ 3216' -1303'
LS- CRM OFF WHT LT TN TO TN, STAIN IN 50% HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, SLI TR CHLK SCAT THRU, GLD FLO, PR VG POR TO FR PP POR, GD INST FLUSH CUT THRU, GD STRONG MLKY BLUE STREAM CUT IN 40%, FR OIL ODOR
LS- CRM OFF WHT LT TN TO TN, STAIN IN 40%, HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX IP, TR SUCRO TXT, IMBD CALC XLS, GLD TO BRIT YEL FLO SCAT THRU, PR VUG POR TO TR PR PP POR, GD INST FLUSH CUT TO GD STRONG MLKY BLUE STREAM CUT IN 30%, PR TO FR OIL ODOR
LS- CRM OFF WHT LT TN TO TN, OIL STAIN IN 40%, HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX, SUCRO TXT IP, IMBD FOSS FRAGS, IMBD DISS PYR SCAT THRU, SLI TR LIVE OIL ON 10%, GLD TO BRIT YEL FLO, FR VUG POR TO FR PP POR, GD INST FLUSH CUT, FR SLOW MLKY BLUE STREAM CUT IN 30%, FR OIL ODOR
ROP-51
WOB-85
PP-800
WT-8.8
VIS-48
3100
3150
3200
3250
0
ROP (min/ft)
5
0
Gamma (API)
150
DST # 1 3192'
- 3274'
CFS @ 3225'
15,30,45,60
CFS @ 3250'
15,30,45,60
CFS @ 3274'
15,30,45,60
200 UN
CN
120 UN BG
CN
100 UN BG
CN
C1
C2
C3
CN
90 UN BG
CN
TG, C1-C5
1
10
100
1000
125 UN
CN
C1'
C2
C3
70 UN
55 UN BG
CN
C4
75 UN


DST #2 3281'-3304'
CFS @ 3292'
15,30,45,60
CFS @ 3304'
15,30,45,60
CFS @ 3320'
15,30,45,60
CFS @ 3338'
15,30,45,60
DST #3 3346'
- 3405'
CFS @ 3358'
15,30,45,60
CFS @ 3366'
15,30,45,60
CFS @ 3387'
15,30,45,60
CFS @ 3405'
15,30,45,60
CFS @ 3425'
15,30,45,60
CFS @ 3442'
15,30,45,60
DST #4 3464'
- 3498'
CFS @ 3498'
3300
3350
3400
3450
0
ROP (min/ft)
5
0
mma (API)
150
LS- CRM OFF WHT LT TN TO TN, OIL STAIN IN 50%, HD DNS TO BRITT, FN XLN, REXLN MTRX, SUCRO TXT IP, SLI TR CHLKY SCAT THRU, GLD TO BRIT YEL FLO, FR PP POR, GD INST FLUSH CUT, FR SLOW MLKY BLUE STREAM CUT IN 20%, GD OIL ODOR
LS- CRM LT TN TO TN, STAIN ON 50%, HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX, SUCRO TXT IP, TR CHLK SCAT THRU, IMBD FOSS FRAGS, TR IMBD OOL, GLD YEL FLO, TR FR VUG POR, TO FR PP POR, GD INST FLUSH CUT THRU, GD STRONG MLKY BLUE STREAM CUT IN 70%, GD OIL ODOR, BRN STAIN ON DISH
LS- CRM LT TN TO TN, STAIN 30%, HD DNS TO BRITT, FN XLN, REXLN MTRX, CHLKY THRU, IMBD FOSS FRAGS, DLL TO BRIT YEL FLO, V/PR PP POR, NO FLUSH CUT TO V/PR SLOW STEAM CUT IN 10%, NO ODOR
LS- CRM OFF WHT LT TN TO TN, STAIN ON 50%, HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX, SLI TR CHLK SCAT THRU, SLI TR IMBD OOL, BRIT YEL TO DLL GLD FLO, FR TR VUG POR TO FR PP POR, PR FLUSH CUT, NO STREAM CUT, FR OIL ODOR
LS- CRM LT TN TO TN, HD DNS TO BRITT, STAIN ON 40%, V/FN XLN REXLN MTRX, V/SLI TR IMBD OOL, SLI CHLKY, GLD TO BRIT YEL FLO, TR VUG POR, TO FR PP POR, PR FLUSH CUT IN 30%, V/PR STREAM CUT IN 10%, PR OIL ODOR
LS- CRM OFF WHT TO WHT LT TN, HD DNS TO BRITT, V/FN TO FN XLN REXLN MTRX, SUCRO TXT SCAT THRU, TR IMBD OOL, CHLKY SCAT THRU, LIVE OIL ON 2 ROCKS, DLL GLD TO BRIT YEL FLO, GD PP POR, GD INST FLUSH CUT IN 30%, TO V/STRONG MLKY BLUE STREAM CUT IN 30%, V/GD OIL ODER, BRN LEAK ON DISH
LS- CRM LT TN, HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX, SUCRO TXT SCAT THRU, SLI TR CHLKY SCAT THRU, LIVE OIL ON 3 ROCKS, DLL GLD TO BRIT YEL FLO, GD PP POR, GD INST FLUSH CUT IN 30%, TO V/STRONG MLKY BLUE STREAM CUT IN 30%, V/GD OIL ODER, BRN LEAK ON DISH
LS- CRM OFF WHT TO WHT LT TN, LT OIL STAIN ON 40%, HD DNS TO BRITT, FN XLN REXLN MTRX IP, SLI TR SUCRO TXT IP, IMBD FOSS FRAGS IP, TR CHLK SCAT THRU, DLL TO BRIT YEL FLO, FR PP POR IN 30%, FR FLUSH CUT THRU TO FR SLOW MLKY BLUE STREAM CUT IN 30%, FR TO GD OIL ODOR
LS- CRM OFF WHT TO WHT LT TN TO TN, STAIN ON 40%, HD DNS TO BRITT, V/FN TO FN XLN REXLN MTRX, IMBD FOSS FRAGS IP, IMBD CALC XLS IP, GLD TO BRIT YEL FLO, GD VUG POR IN 30%, GD PP POR IN 20%, FR FLUSH CUT THRU, FR SLOW MLKY BLUE STREAM CUT IN 30%, GD OIL ODOR
LS- CRM OFF WHT TO WHT LT TN TO TN, STAIN ON 30% HD DNS TO BRITT, FN XLN REXLN MTRX, SLI TR SUCRO TXT, IMBD CALC XLS IP, GLD TO BRIT YEL FLO, FR PP POR IN 20%, PR FLUSH CUT THRU, FR SLOW MLKY BLUE STREAM CUT IN 20%, FR OIL ODOR
LS- CRM OFF WHT LT TN, DTAIN IN 20%, HD DNS TO BRITT, FN XLN REXLN MTRX, IMBD FOSS FRAGS IP, DLL GLD TO BRIT YEL FLO, TR FR INTER-XLN POR 10%, PR PP POR IN 20%, V/PR FLUSH CUT IN 10% TO V/PR SLOW STREAM CUT IN 10%, PR OIL ODER
BASE KANSAS CITY @ 3452' -1539'
SH- GRY TO DK GRY, FRM, SMTH BLKY
LS- CRM OFF WHT TO WHT LT TN, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX, IMBD CALC XLS IP, SLI TR CHLK, DLL TO GLD FLO, V/PR PP POR, NO VIS CUT, NO VIS SHOW
SS- FRSTY TN TO DK TN, HD TT TR FRI, V/FN GRNS, RNI TO SUB/RND GRN THRU, V/CALC CMNT TO LIMY, IMBD SHALE IP, STAIN IN 70%, LIVE OIL IN 20%, GLD TO BRIT YEL FLO IN 50%, FR TO TR GD INTER-GRN POR IN 40%, FR PP POR IN 10%, V/GD INST CUT THRU, V/STRONG MLKY BLUE CUT THRU, FR OIL ODOR
SH- GRY TO DK GRY RDISH THRU, FRM TO SFT, GUMM'
150 UN BG
240 UN
CN
C4
226 UN
155 UN BG
200 UN
C1
C2
CN
C3
250 UN
C4
240 UN
CN
236 UN
260 UN
285' UN
C1
CN
C2
C3
240 UN
C4
TG, C1-C5
1
10
100
1000
1222 UN
CN
550 UN BG
800 UN
400 UN
BG
CN
220 UN BG
C2
CN
C3
C4
500 UN
C1


CFS @ 3498'
15,30,45,60
DST #5
3510'-3518'
CFS @ 3508'
15,30,45,60
CFS @ 3513'
15,30,45,60
CFS @ 3418'
15,30,45,60
CFS @ 3604'
15,30,45,60
3500
3550
3600
0
ROP (min/ft)
5
0
Gamma (API)
150
CTCH 1 1/2 HOUR
TOH FOR LOGS
IP, LIMMY THRU
SH- GRY DK GRY, FRM, SMTH SPLINTY, LIMY THRU, YELISH WHT CHRT THRU
ARBUCKLE @ 3510' - 1597'
DOL- CRM OFF WTH LT TN TO TN, STAIN IN 60%, V/FN TO FN XLN, REXLN MTRX THRU, SUCRO TXT, FN IMBD DOL XLS THRU, IMBD FOSS FRAGS, TR CHLK, LIVE OIL IN 30%, GLD YEL FLO, FR INT-XLN POR IN 40%, FR MICRO PP POR IN 20%, GD FLUSH CUT THRU, GD STRONG MLKY BLUE STREAM CUT IN 60%, GD OIL ODOR, BRN STAIN ON DISH
3516'- DOL- CRM OFF WTH LT TN TO TN, STAIN IN 40%, V/FN TO FN XLN, REXLN MTRX THRU, SUCRO TXT, FN IMBD DOL XLS THRU, CHLKY THRU, LIVE OIL IN 20%, GLD YEL FLO, PR INT-XLN POR IN 30%, FR MICRO PP POR IN 20%, GD INST FLUSH CUT THRU, GD STRONG MLKY BLUE CUT 40%, GD OIL ODOR, BRN STAIN ON DISH
3535'- DOL- CRM OFF WTH LT TN TO TN, STAIN IN 40%, HD TT TO BRITT, V/FN TO FN XLN, REXLN MTRX THRU, SUCRO TXT, FN IMBD DOL XLS THRU, IMBD DISS PYR SCAT THRU, SLI TR CHLK, GLD YEL FLO, PR INT-XLN POR IN 20%, FR MICRO PP POR IN 20%, GD INST FLUSH CUT THRU, FR STRONG MLKY BLUE CUT 30%, GD OIL ODOR, LT BRN STAIN ON DISH
3560'- DOL- CRM OFF WTH LT TN TO TN, STAIN IN 30%, HD TT , V/FN T FN XLN, REXLN MTRX THRU, SUCRO TXT, FN IMBD DOL XLS THRU, SLI TR CHLK, DLL TO BRIT YEL FLO, V/PR INT-XLN POR IN 10%, PR MICRO PP POR IN 10%, FR INST FLUSH CUT THRU, FR SLOW MLKY BLUE CUT 20%, FR OIL ODOR, PR LT BRN STAIN ON DISH
3590'- DOL- CRM OFF WTH LT TN TO TN, LT STAIN IN 30%, HD TT, FN XLN, REXLN MTRX, SUCRO TXT SCAT THRU, IMBD DOL XLS THRU, DLL TO BRIT YEL FLO, PR MICRO PP POR, TR V/PR INTR-XLN POR, PR FLUSH CUT THRU, NO STREAM CUT, PR OIL ODOR
RTD 3604' @ 10:00 AM 03/08/2011
LOGS BY WEATHERFORD
LIBERAL KANSAS
THANK YOU FOR CHOOSING EARTHTECH
200 UN BG
120 UN BG
C4
CN
160 UN
140 UN
70 UN BG
116 UN
CN
80 UN BG
C1
CN
C2
120 UN
C3
C4
80 UN BG
1
TG, C1-C5
10
100
1000
SAMPLES WILL BE DELIVERED TO THE KGS
LOG COMPLETED BY JASON MARSHALL