



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1076052
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1076052

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	DENNIS HOPKINS 1-6
Doc ID	1076052

All Electric Logs Run

DIL
MICRO
POR
SONIC
SPECTRAL

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



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

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

Sam Brownback, Governor

March 09, 2012

CLAYTON CAMOZZI
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-009-25636-00-00
DENNIS HOPKINS 1-6
NE/4 Sec.06-16S-15W
Barton 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,
CLAYTON CAMOZZI



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

Date: 11/22/2011
 Invoice # 70

P.O.#:
 Due Date: 12/22/2011
 Division: Russell

Invoice

V1112-AP-82

12/16

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

Reference:
 D J HOPKINS 1-15

Description of Work:
 LONG SURFACE JOB

S/b ←
 Dennis Hopkins
 1-6
 KS4031114

<input checked="" type="checkbox"/> DRLG <input type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE <input type="checkbox"/> GG	
Account	8200-138
Well/Prospect	D J HOPKINS 1-15
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:

	Quantity	Price	Taxable
Labor		\$ 977.42	No
Common-Class A	370	\$ 4,831.89	Yes
8 5/8" Basket	3	\$ 1,014.76	Yes
Bulk Truck Matl-Material Service Charge	390	\$ 834.93	No
Calcium Chloride	13	\$ 524.06	Yes
Pump Truck Mileage-Job to Nearest Camp	22	\$ 235.02	No
8 5/8" Centralizer	3	\$ 205.52	Yes
Flo Seal	92	\$ 196.96	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	22	\$ 137.53	No
Premium Gel (Bentonite)	7	\$ 121.99	Yes
8 5/8" Top Rubber Plug	1	\$ 113.46	Yes

Item	Quantity	Price	Taxable
Baffle Plate Aluminum, 8 5/8"	1	\$96.34	Yes

Invoice Terms:

Net 30

SubTotal: \$ 9,289.88
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,393.48)

SubTotal for Taxable Items: \$ 6,039.23
 SubTotal for Non-Taxable Items: \$ 1,857.17

6.30% Rush County Sales Tax

Total: \$ 7,896.39
 Tax: \$ 380.47

Amount Due: \$ 8,276.87
 Applied Payments:
 Balance Due: \$ 8,276.87

Thank You For Your Business!

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

RECEIVED

NOV 29 2011

SAMUEL GARY JR.
 & ASSOCIATES, INC.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 070

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-18-11	15	16	16	Rush	KS		6:45 PM

Lease	Well No.	Location
Hopkins	1-15	Coatham 5 40 Line 1E 1/4 S Winto

Contractor	Owner
Ual #6	To Quality Oilwell Cementing, Inc.

Type Job	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Hole Size	T.D.	
12 1/4	1043	

Csg.	Depth	Charge To
8 5/8	1043	Sam Gary

Tbg. Size	Depth	Street

Tool	Depth	City	State

Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
42.52	42.52	

Meas Line	Displace	Cement Amount Ordered
	63 1/2 BBL	370 com 3% cc 2% bel

EQUIPMENT

Pumptrk	No.	Cementier	1/4# Flo
		Helper	Common 370
Bulktrk	No.	Driver	Poz. Mix
		Driver	Gel. 7
Bulktrk	No.	Driver	Calcium 13
		Driver	Hulls

Mislabeled
S/b
Dennis Hopkins
1-6

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 924
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
8 5/8 on bottom Est. Circulation.	Sand
Mix 3725K & Displace Plug	Handling 390
Buttle Plate @ 1000.00	Mileage
Cement Circulated	
Plug Janted @ 700.50	

FLOAT EQUIPMENT

Guide Shoe	1 Buttle Plate
Centralizer	3
Baskets	3
AFU Inserts	Rubber Plug
Float Shoe	
Latch Down	

Thanks

Pumptrk Charge	Long Surface
Mileage	22

X Signature *Randy M...*

Tax	
Discount	
Total Charge	



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

Date: 11/29/2011
 Invoice # 179
 P.O.#:
 Due Date: 12/29/2011
 Division: Russell

Invoice

DRLG COMP W/O LOE GG

Account	8300-238
Well/Prospect	DENNIS HOPKINS 1-6
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

Reference:
 DENNIS HOPKINS 1-6

Description of Work:
 PROD LONG STRING

Services / Items Included:

Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor	\$ 937.80	No		Salt (Fine)	19	\$272.41 Yes
Common-Class A	225 \$ 2,819.19	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$230.05	Yes
Gilsonite	1057 \$ 1,628.35	Yes	Pump Truck Mileage-Job to Nearest Camp	22	\$225.49	No
CFL 117	176 \$ 1,113.46	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	22	\$131.95	No
5 1/2" Basket	3 \$ 708.65	Yes	Flo Seal	56	\$115.03	Yes
Bulk Truck Matl-Material Service Charge	254 \$ 521.73	No	KCL	2	\$61.33	Yes
CD-110	117 \$ 480.65	Yes				
5 1/2" Turbolizer	8 \$ 476.54	Yes				
Mud Clear	500 \$ 380.00	Yes				
Defoamer A or CAF-38	50 \$ 359.46	Yes				
Auto Fill Float Shoe, 5 1/2"	1 \$ 314.27	Yes				

Invoice Terms:

Net 30

SubTotal:	\$ 10,776.37
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (1,616.46)
SubTotal for Taxable Items:	\$ 7,615.48
SubTotal for Non-Taxable Items:	\$ 1,544.43
Total:	\$ 9,159.91
Tax:	\$ 555.93
Amount Due:	\$ 9,715.84
Applied Payments:	
Balance Due:	\$ 9,715.84

7.30% Barton County Sales Tax

Thank You For Your Business!

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 179

Date	10-25-11	Sec.	6	Twp.	16	Range	15	County	Barton	State	Ks	On Location		Finish	10:30 PM		
Lease	Dennis Hopkins			Well No.	1-6		Location									Gosham, Ks - S to C.L., 1E, 2S 6/8	
Contractor	Val Energy H6							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.
Type Job	Production							Charge To									Sam Gary J. & Assoc.
Hole Size	7 7/8"			T.D.	3606'		Depth									3600.60'	
Csg.	8 1/2" 15 1/2" New			Tbg. Size									Depth				
Tool				Depth				City				State					
Cement Left in Csg.				22.50'				Shoe Joint				22.50'					
Meas Line				Displace				86 BLS				Cement Amount Ordered				228 SX @ Pw-C 10% Salt 5% Gilsontite - 500 gal Mud Clear 48 Common 1/4 Fluoreal .03% CD-110 .8% CFL-117 Poz. Mix 25% GAF-35	
EQUIPMENT																	
Pumptrk	1	No.	Cement	Cisco		Common										1/4 Fluoreal .03% CD-110 .8% CFL-117	
Bulktrk	3	No.	Driver	Brian S.		Poz. Mix										25% GAF-35	
Bulktrk	p.u.	No.	Driver	Rick		Gel.											
JOB SERVICES & REMARKS																	
Remarks:	20 BC KCL							Calcium									CD-110 - 117#
Rat Hole	30 SX							Hulls									2 Gal KCL
Mouse Hole	15 SX							Salt									19
Centralizers	1, 3, 5, 7, 9, 11, 13, 15							Flowseal									56#
Baskets	3, 9, 15							Kol-Seal									1057
D/V or Port Collar								Mud CLR 48									500 gal
pipe on bottom, break circulation							CFL-117 or CD110									CAF 30 500 50#	
pump 500 gal Mud Clear 48							Sand									CFL-117 176#	
plug Pot hole w/ 30 SX							Handling										
plug Marselde w/ 15 SX							Mileage										
FLOAT EQUIPMENT																	
Hook to 5 1/2" casing + mix							Guide Shoe										
180 SX A-Pw C 10% Salt							Centralizer									8 tubs	
5% Gilsontite shut down wash							Baskets									3	
pumps + lines Released plug							AFU Inserts										
+ Displaced with 86 BLS of water.							Float Shoe									1	
Land plug to 1300#							Latch Down									1	
Lift pressure 700 #							Rotating head Assy										
Released + held							Pumptrk Charge									prod Long String	
							Mileage									22	
Tax																	
Discount																	
Total Charge																	
Signature <i>[Signature]</i>																	



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. and Associates, Inc.**

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Clayton Camozzi

Dennis Hopkins 1-6

6-16-15 Barton, Ks

Start Date: 2011.11.24 @ 23:25:15

End Date: 2011.11.25 @ 08:46:45

Job Ticket #: 44735 DST #: 1

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

Printed: 2011.11.28 @ 09:37:44

Samuel Gary Jr. and Associates, Inc.
6-16-15 Barton, Ks
Dennis Hopkins 1-6
DST # 1
LKC "H"
2011.11.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

6-16-15 Barton, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Dennis Hopkins 1-6

ATTN: Clayton Camozzi

Job Ticket: 44735

DST#: 1

Test Start: 2011.11.24 @ 23:25:15

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:13:45

Time Test Ended: 08:46:45

Test Type: Conventional Straddle (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3355.00 ft (KB) To 3379.00 ft (KB) (TVD)

Reference Elevations: 1952.00 ft (KB)

Total Depth: 3606.00 ft (KB) (TVD)

1942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 179.59 psig @ 3364.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.24

End Date:

2011.11.25

Last Calib.:

2011.11.25

Start Time: 23:25:16

End Time:

08:46:45

Time On Btm:

2011.11.25 @ 02:12:45

Time Off Btm:

2011.11.25 @ 06:47:15

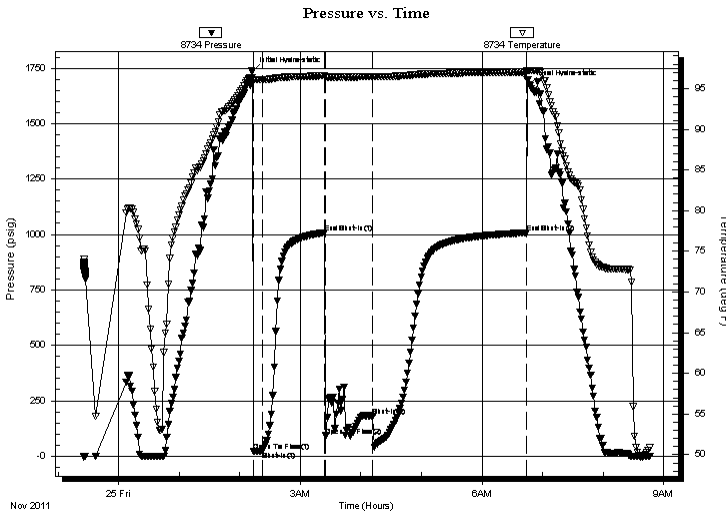
TEST COMMENT: 10 - IFP - weak blow throughout sur - 1"

60 - ISI - no blow back

50 - FFP - no blow 18 min - 5 1/2"

150 - FSI - no blow back

PRESSURE SUMMARY



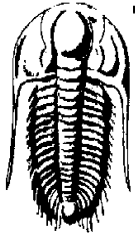
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.60	96.36	Initial Hydro-static
1	21.35	96.00	Open To Flow (1)
10	22.68	96.08	Shut-In(1)
72	1008.11	96.56	End Shut-In(1)
73	91.88	96.35	Open To Flow (2)
119	179.59	96.46	Shut-In(2)
272	1007.64	97.03	End Shut-In(2)
275	1677.57	97.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
52.00	SGOCM 5%G, 5%O, 90%M	0.73
3.00	FREE OIL 95%O, 5%M	0.04
0.00	30' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

6-16-15 Barton, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Dennis Hopkins 1-6

ATTN: Clayton Camozzi

Job Ticket: 44735

DST#: 1

Test Start: 2011.11.24 @ 23:25:15

GENERAL INFORMATION:

Formation: **LKC "H"**

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

Time Tool Opened: 02:13:45

Time Test Ended: 08:46:45

Test Type: **Conventional Straddle (Initial)**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: 3355.00 ft (KB) To 3379.00 ft (KB) (TVD)

Reference Elevations: **1952.00 ft (KB)**

Total Depth: **3606.00 ft (KB) (TVD)**

1942.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **10.00 ft**

Serial #: 6672 Fluid

Press @ Run Depth: **psig @ 3321.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.11.24**

End Date:

2011.11.25

Last Calib.:

2011.11.25

Start Time: **23:25:07**

End Time:

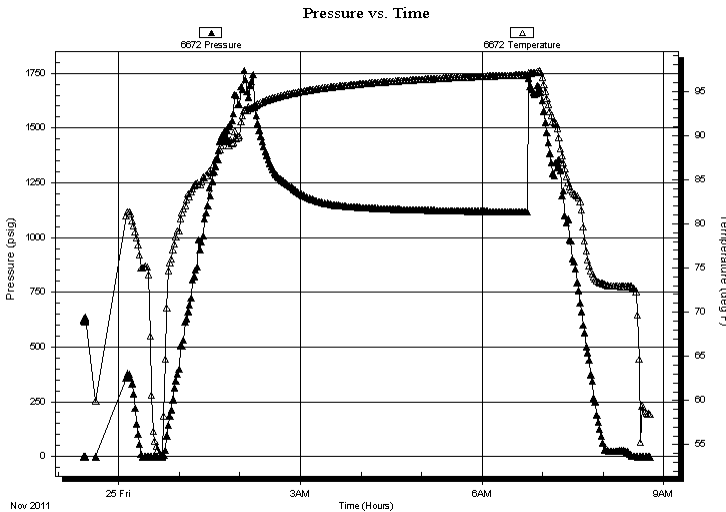
08:47:06

Time On Btm:

Time Off Btm:

TEST COMMENT: 10 - IFP - weak blow throughout sur - 1"
60 - ISI - no blow back
50 - FFP - no blow 18 min - 5 1/2"
150 - FSI - no blow back

PRESSURE SUMMARY



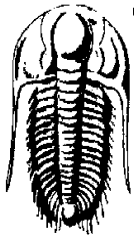
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
52.00	SGOCM 5%G, 5%O, 90%M	0.73
3.00	FREE OIL 95%O, 5%M	0.04
0.00	30' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

6-16-15 Barton, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Dennis Hopkins 1-6

ATTN: Clayton Camozzi

Job Ticket: 44735

DST#: 1

Test Start: 2011.11.24 @ 23:25:15

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:13:45

Time Test Ended: 08:46:45

Interval: 3355.00 ft (KB) To 3379.00 ft (KB) (TVD)

Total Depth: 3606.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Straddle (Initial)

Tester: Brian Fairbank

Unit No: 41

Reference Elevations: 1952.00 ft (KB)

1942.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8372 Inside

Press @ Run Depth: psig @ 3364.00 ft (KB)

Start Date: 2011.11.24

End Date: 2011.11.25

Capacity: 8000.00 psig

Last Calib.: 2011.11.25

Start Time: 23:25:16

End Time: 08:46:45

Time On Btm:

Time Off Btm:

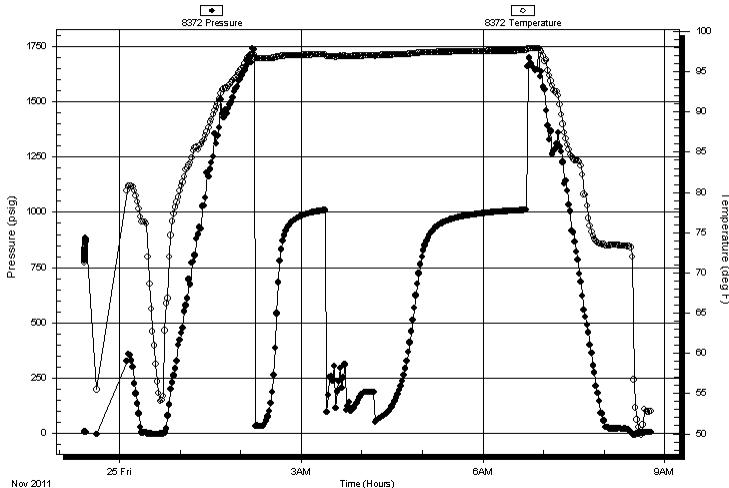
TEST COMMENT: 10 - IFP - weak blow throughout sur - 1"

60 - ISI - no blow back

50 - FFP - no blow 18 min - 5 1/2"

150 - FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
52.00	SGOCM 5%G, 5%O, 90%M	0.73
3.00	FREE OIL 95%O, 5%M	0.04
0.00	30' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

6-16-15 Barton, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Dennis Hopkins 1-6

ATTN: Clayton Camozzi

Job Ticket: 44735

DST#: 1

Test Start: 2011.11.24 @ 23:25:15

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:13:45

Time Test Ended: 08:46:45

Test Type: Conventional Straddle (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3355.00 ft (KB) To 3379.00 ft (KB) (TVD)

Reference Elevations: 1952.00 ft (KB)

Total Depth: 3606.00 ft (KB) (TVD)

1942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8365 Below (Straddle)

Press @ Run Depth: psig @ 3391.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.24

End Date:

2011.11.25

Last Calib.:

2011.11.25

Start Time: 23:25:09

End Time:

08:46:38

Time On Btm:

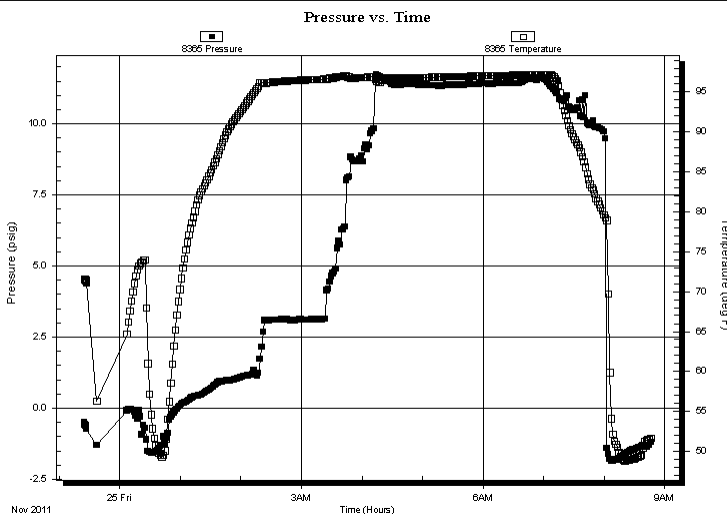
Time Off Btm:

TEST COMMENT: 10 - IFP - weak blow throughout sur - 1"

60 - ISI - no blow back

50 - FFP - no blow 18 min - 5 1/2"

150 - FSI - no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
52.00	SGOCM 5%G, 5%O, 90%M	0.73
3.00	FREE OIL 95%O, 5%M	0.04
0.00	30' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. and Associates, Inc.

6-16-15 Barton, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Dennis Hopkins 1-6

Job Ticket: 44735

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2011.11.24 @ 23:25:15

Tool Information

Drill Pipe:	Length: 3338.00 ft	Diameter: 3.80 inches	Volume: 46.82 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3355.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	3379.00 ft			
Interval between Packers:	24.00 ft			
Tool Length:	290.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	6672	Fluid	3321.00	
Blank Spacing	5.00			3326.00	
Shut In Tool	5.00			3331.00	
Sampler	2.00			3333.00	
Hydraulic tool	5.00			3338.00	
Jars	5.00			3343.00	
Safety Joint	2.00			3345.00	
Packer	5.00			3350.00	34.00 Bottom Of Top Packer
Packer	5.00			3355.00	
Stubb	1.00			3356.00	
Perforations	8.00			3364.00	
Recorder	0.00	8372	Inside	3364.00	
Recorder	0.00	8734	Outside	3364.00	
Perforations	10.00			3374.00	
Blank Off Sub	1.00			3375.00	
Blank Spacing	4.00			3379.00	24.00 Tool Interval
Packer	5.00			3384.00	
Stubb	1.00			3385.00	
Perforations	6.00			3391.00	
Recorder	0.00	8365	Below	3391.00	
Change Over Sub	1.00			3392.00	
Blank Spacing	219.00			3611.00	232.00 Bottom Packers & Anchor

Total Tool Length: 290.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates, Inc.

6-16-15 Barton, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Dennis Hopkins 1-6

Job Ticket: 44735

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2011.11.24 @ 23:25:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
52.00	SGOCM 5%G, 5%O, 90%M	0.729
3.00	FREE OIL 95%O, 5%M	0.042
0.00	30' GIP	0.000

Total Length: 55.00 ft Total Volume: 0.771 bbl

Num Fluid Samples: 0

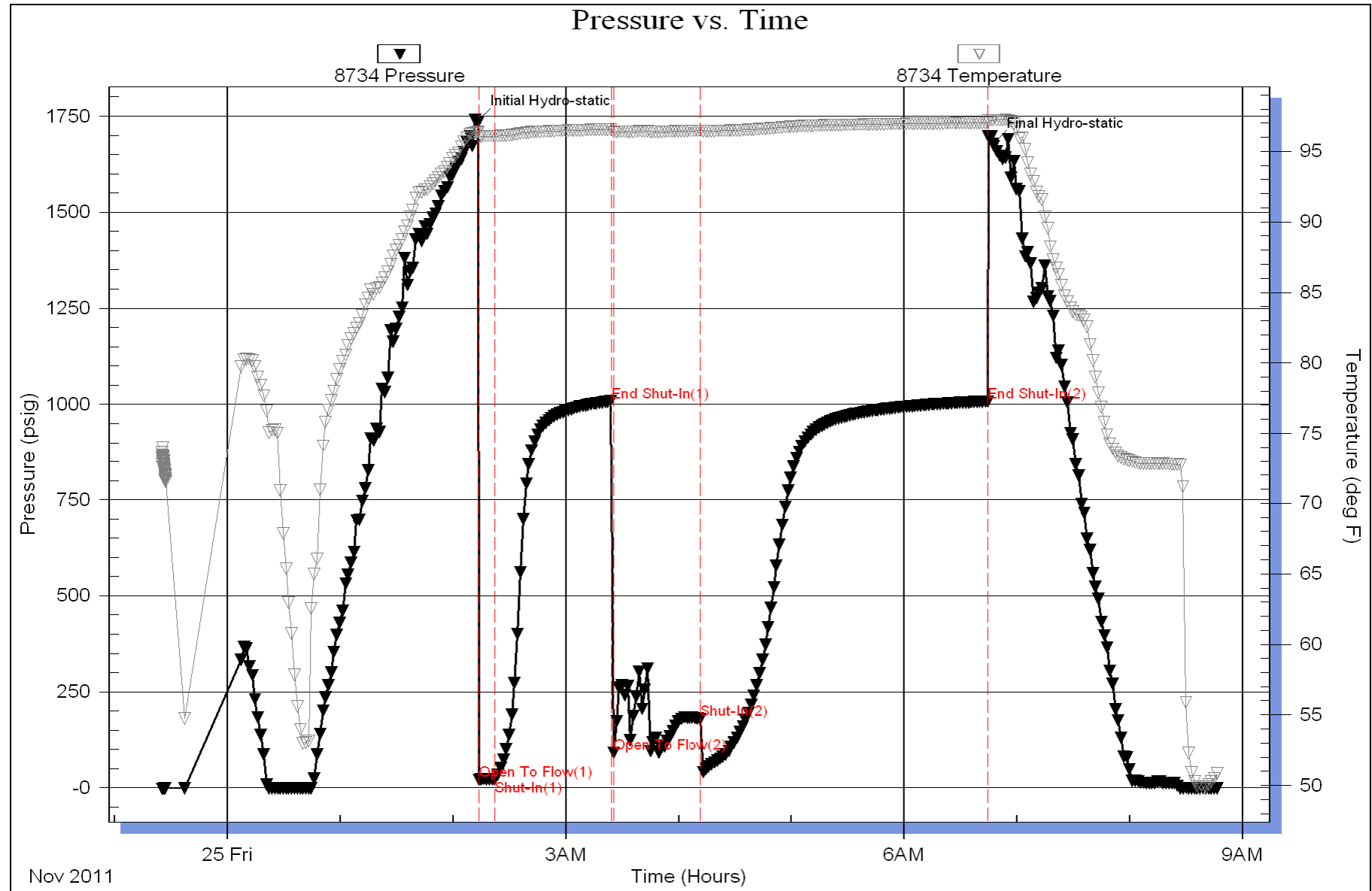
Num Gas Bombs: 0

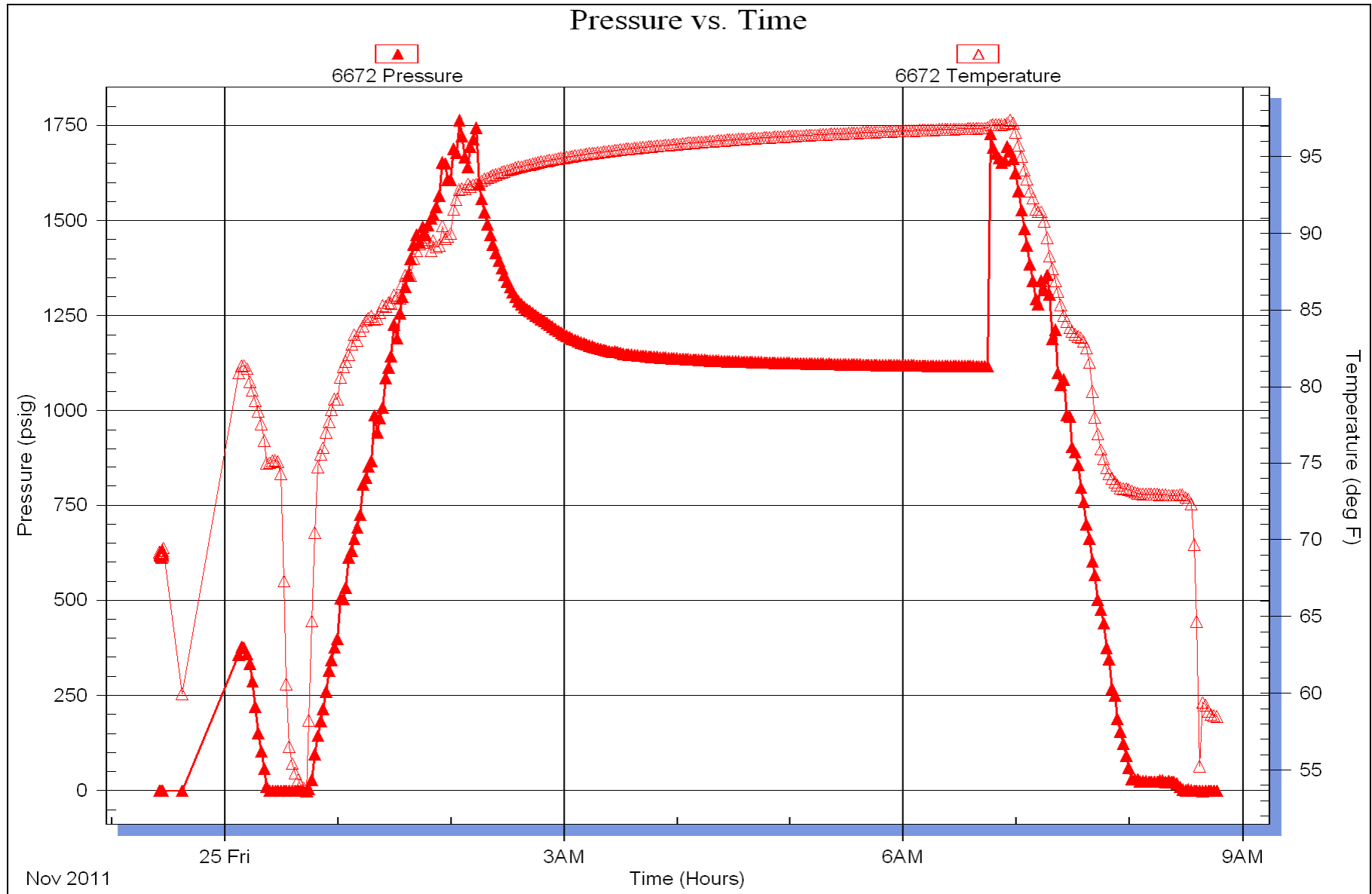
Serial #:

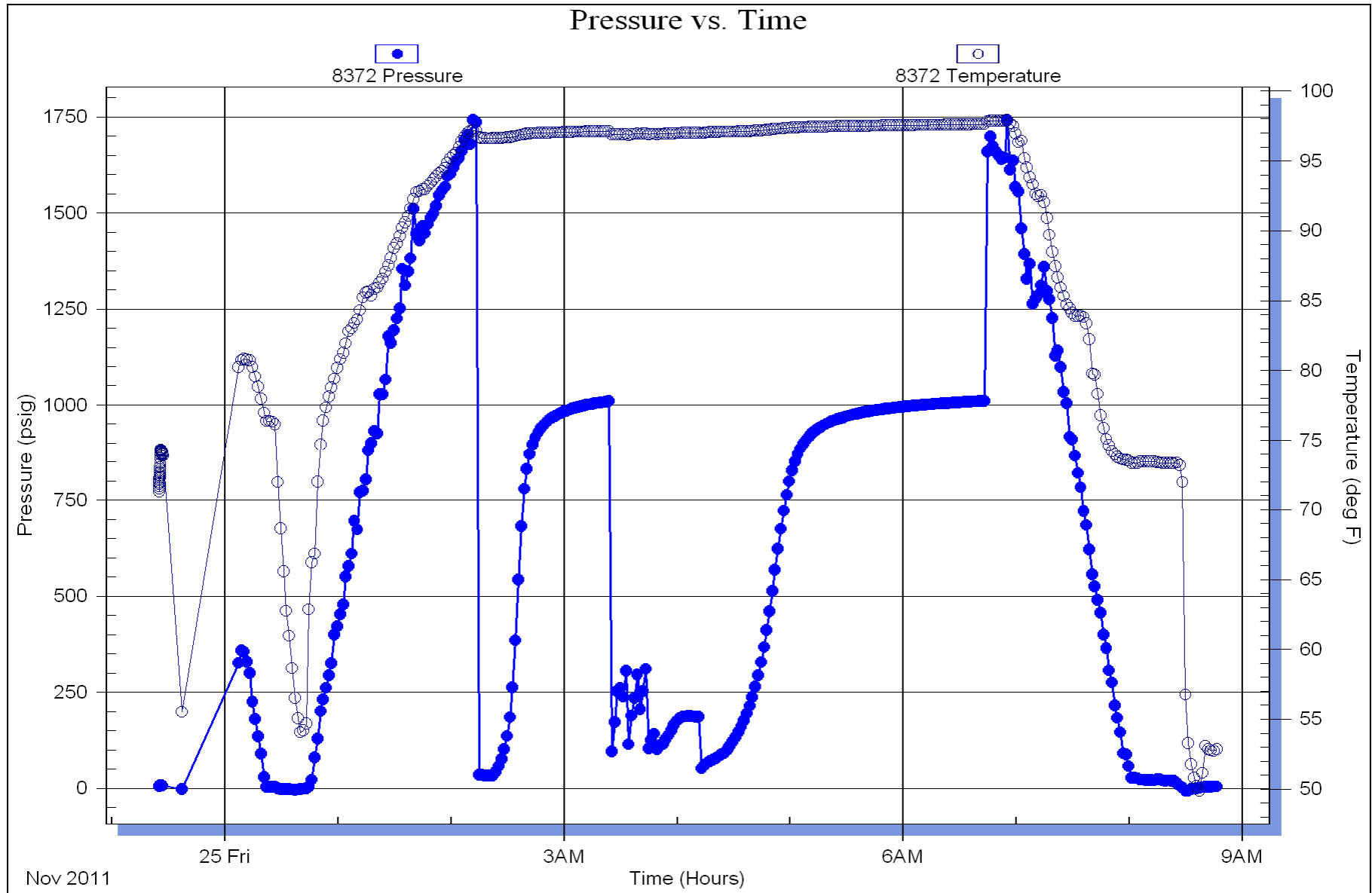
Laboratory Name:

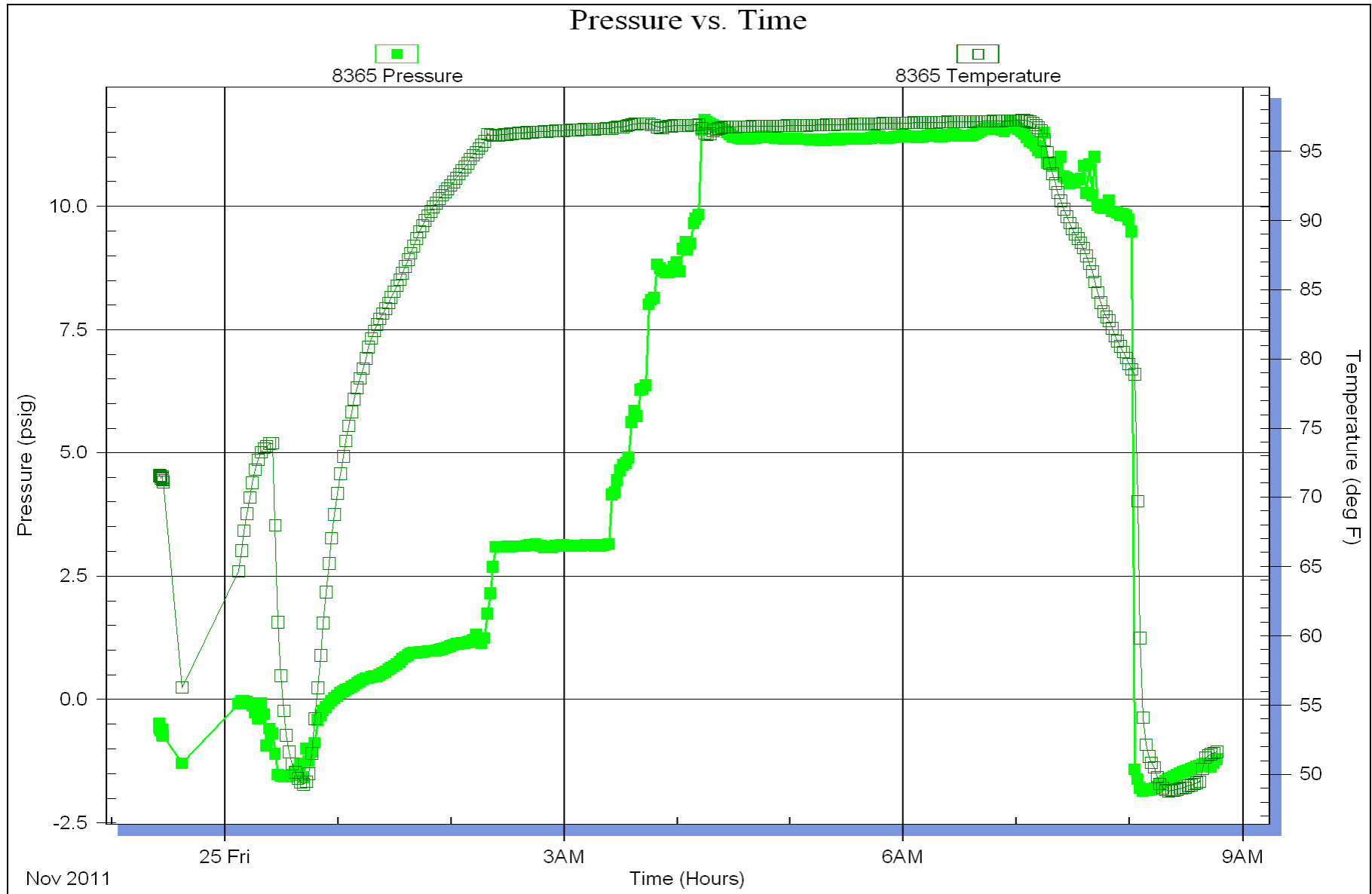
Laboratory Location:

Recovery Comments:

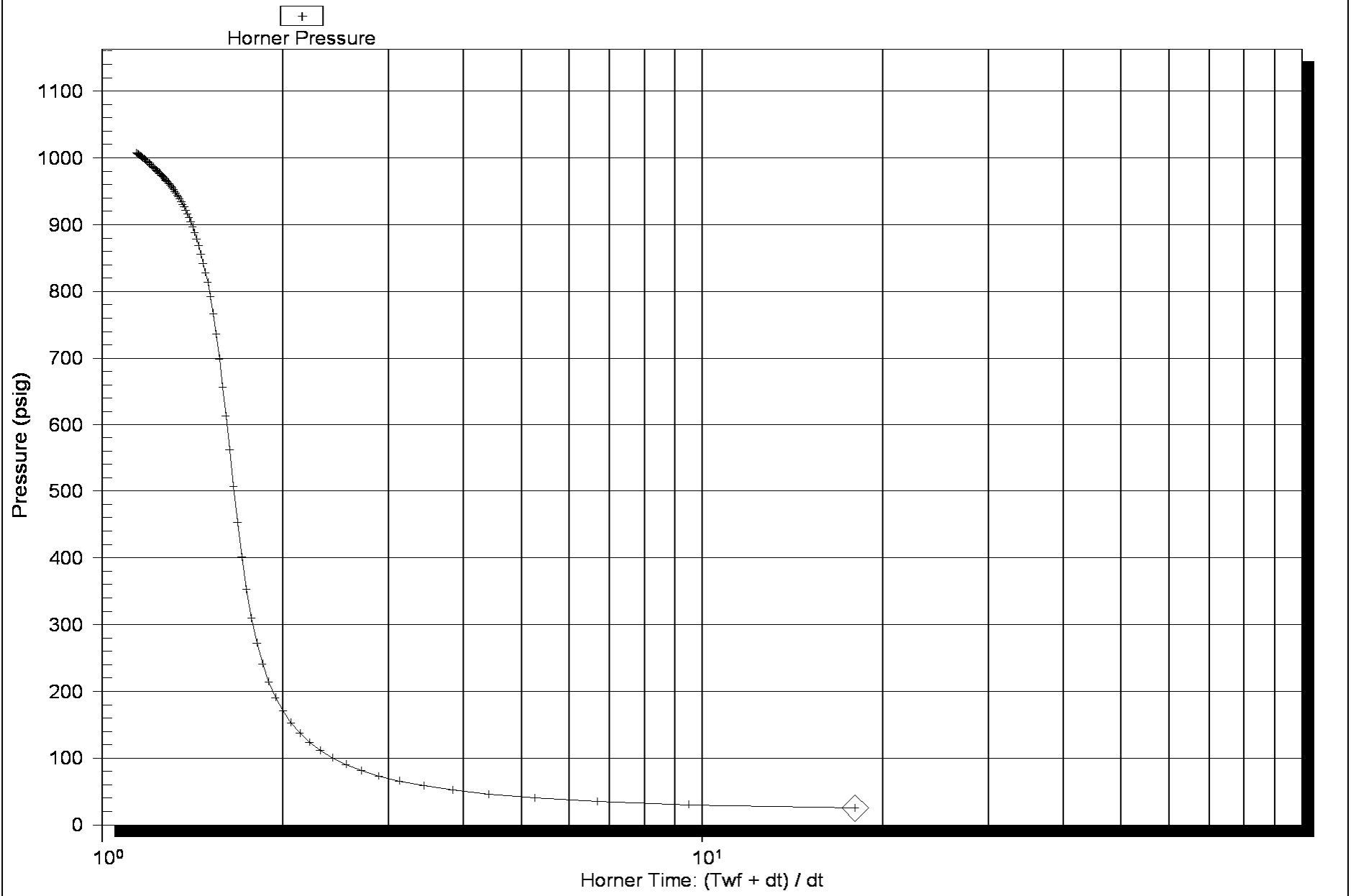




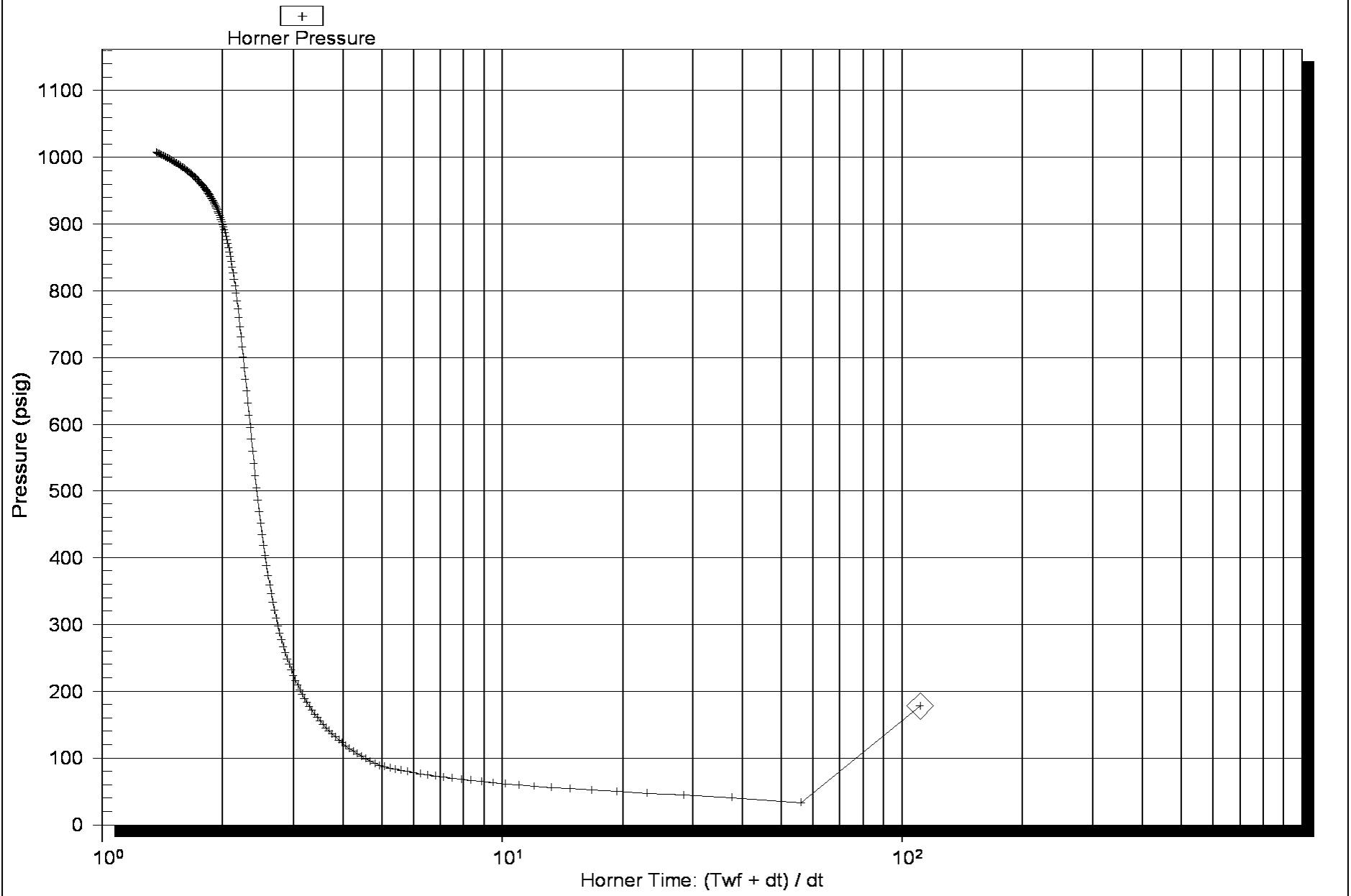


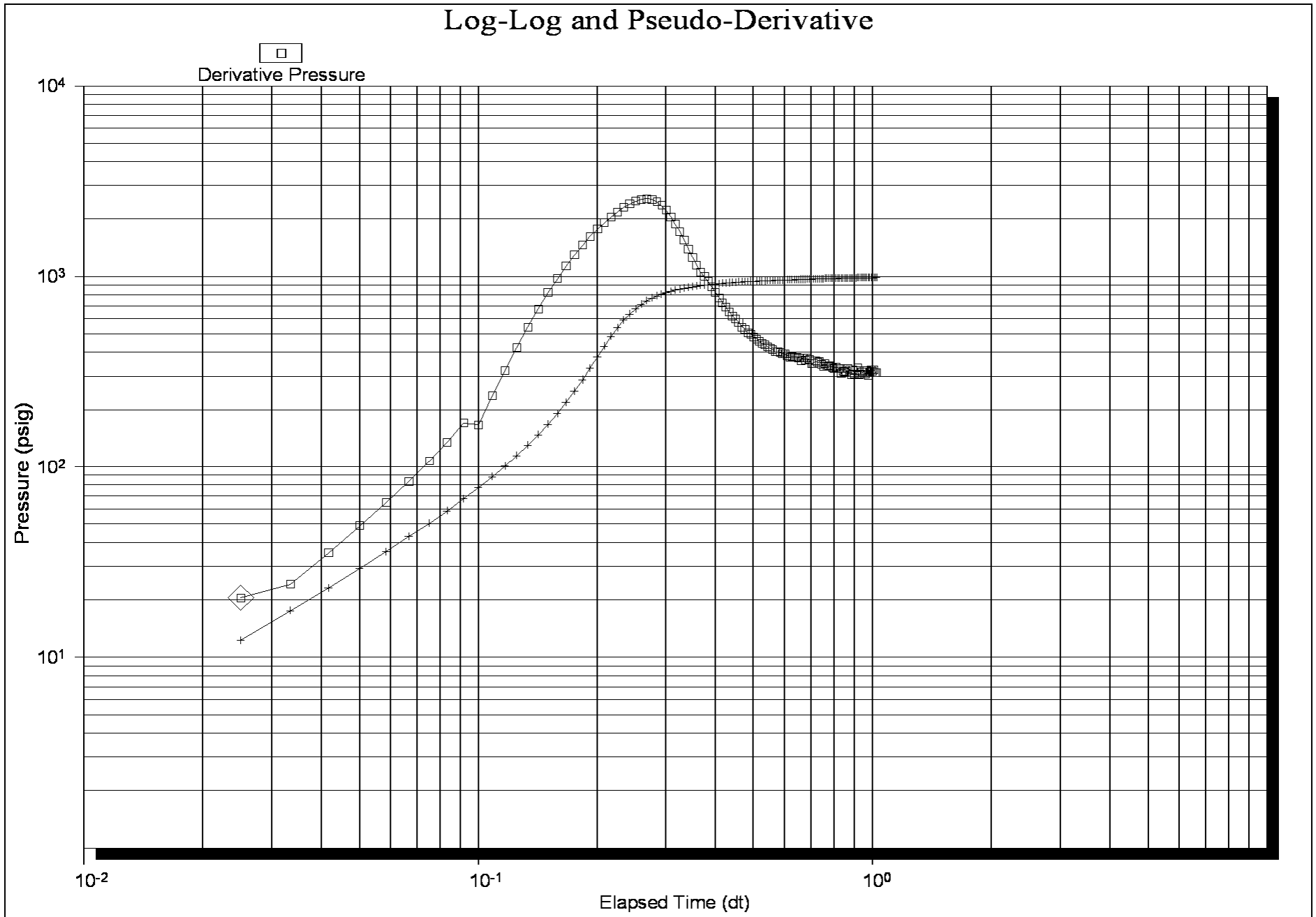


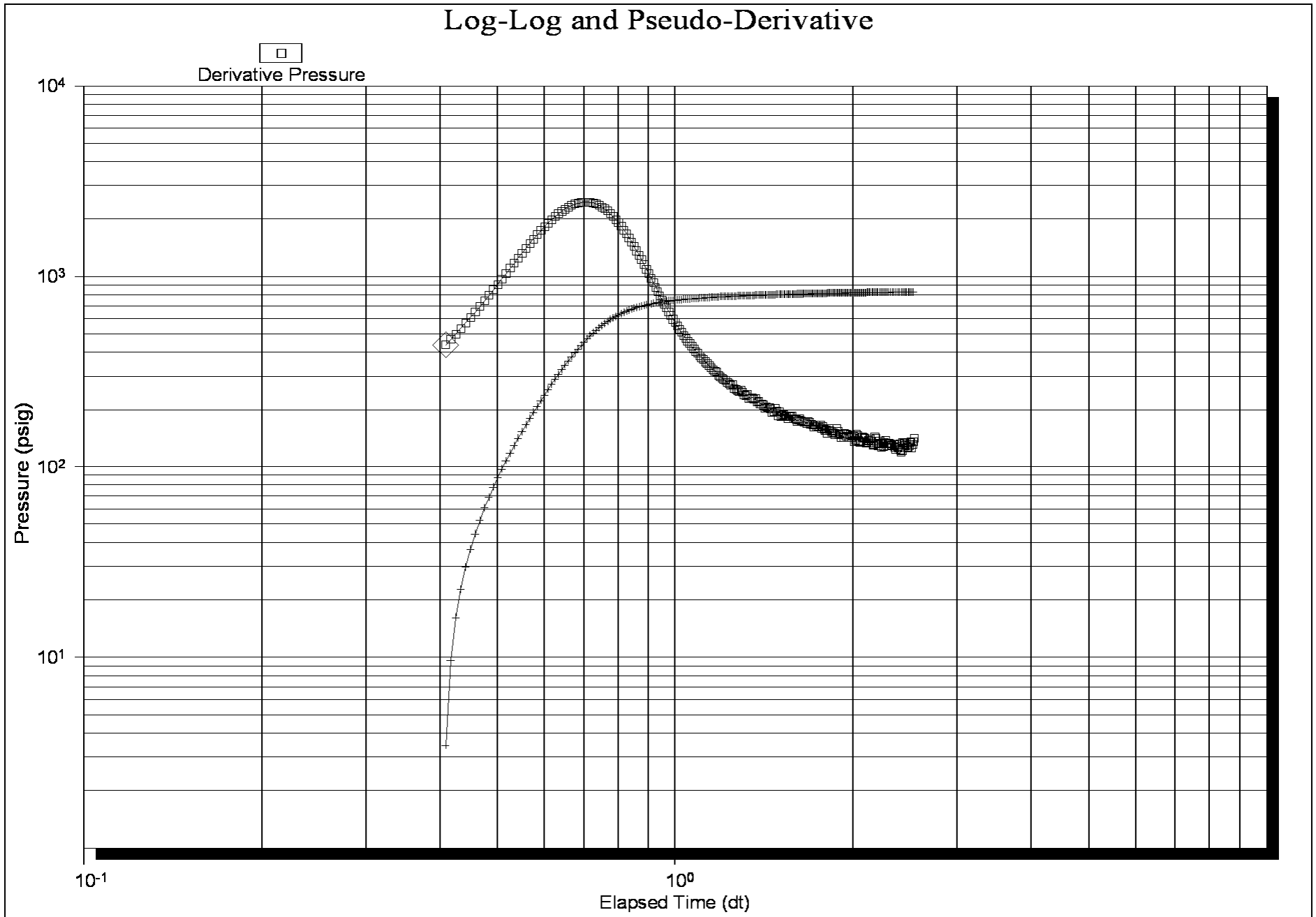
Horner Plot



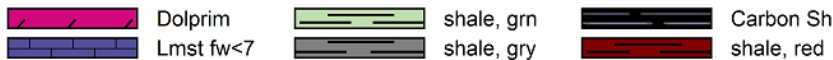
Horner Plot







ROCK TYPES



ACCESSORIES

FOSSIL

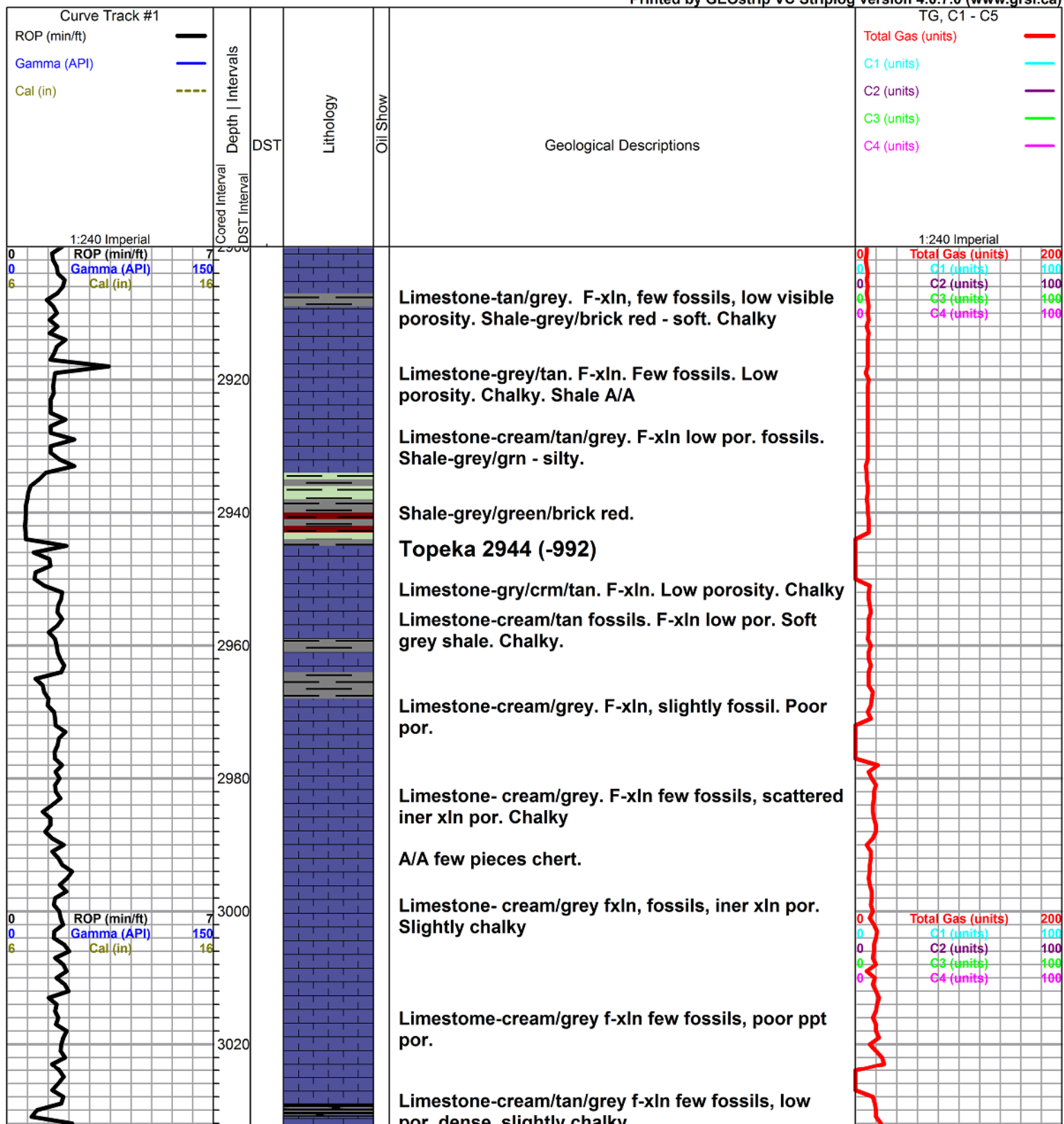
φ Oolite

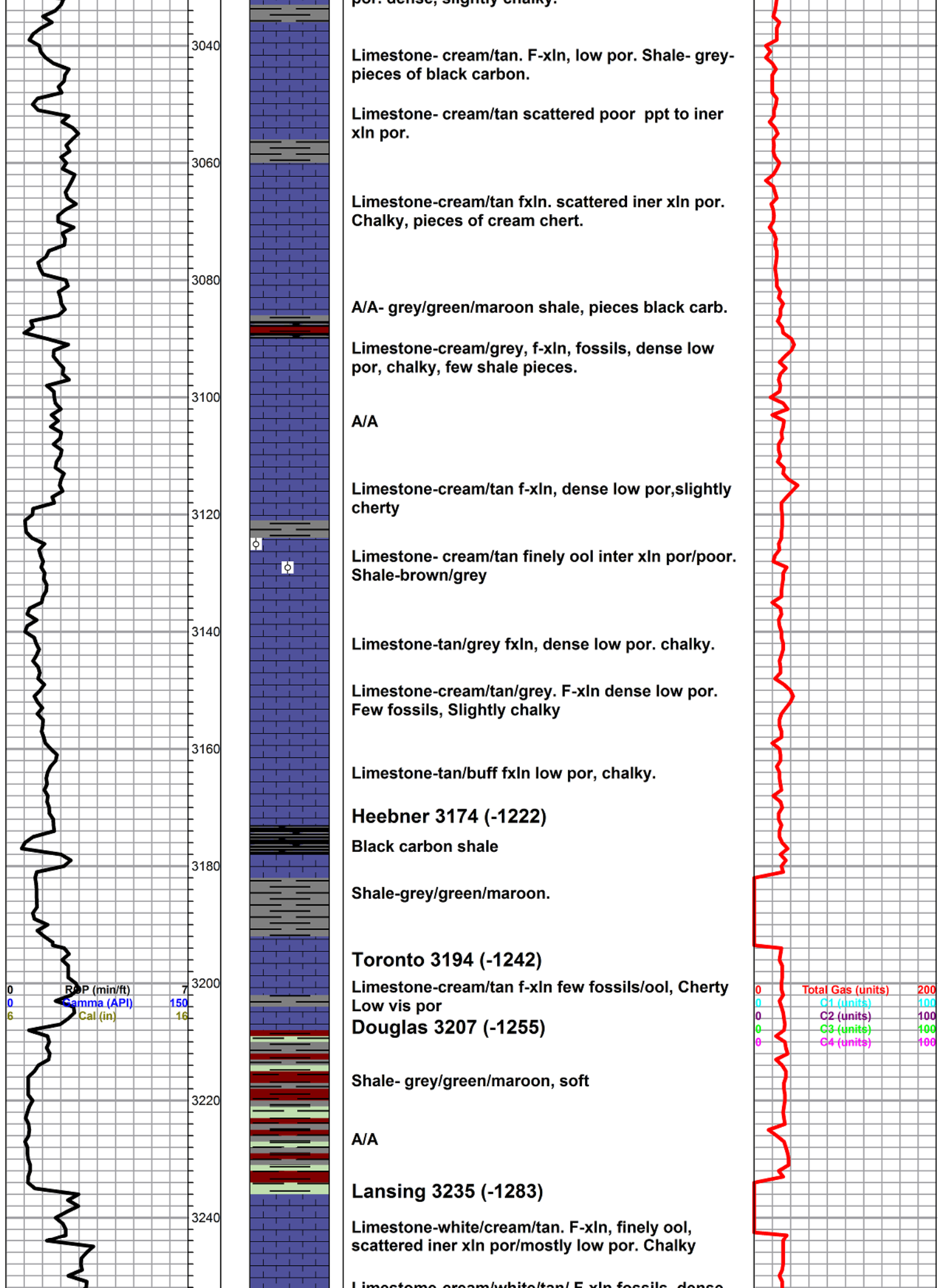
OTHER SYMBOLS

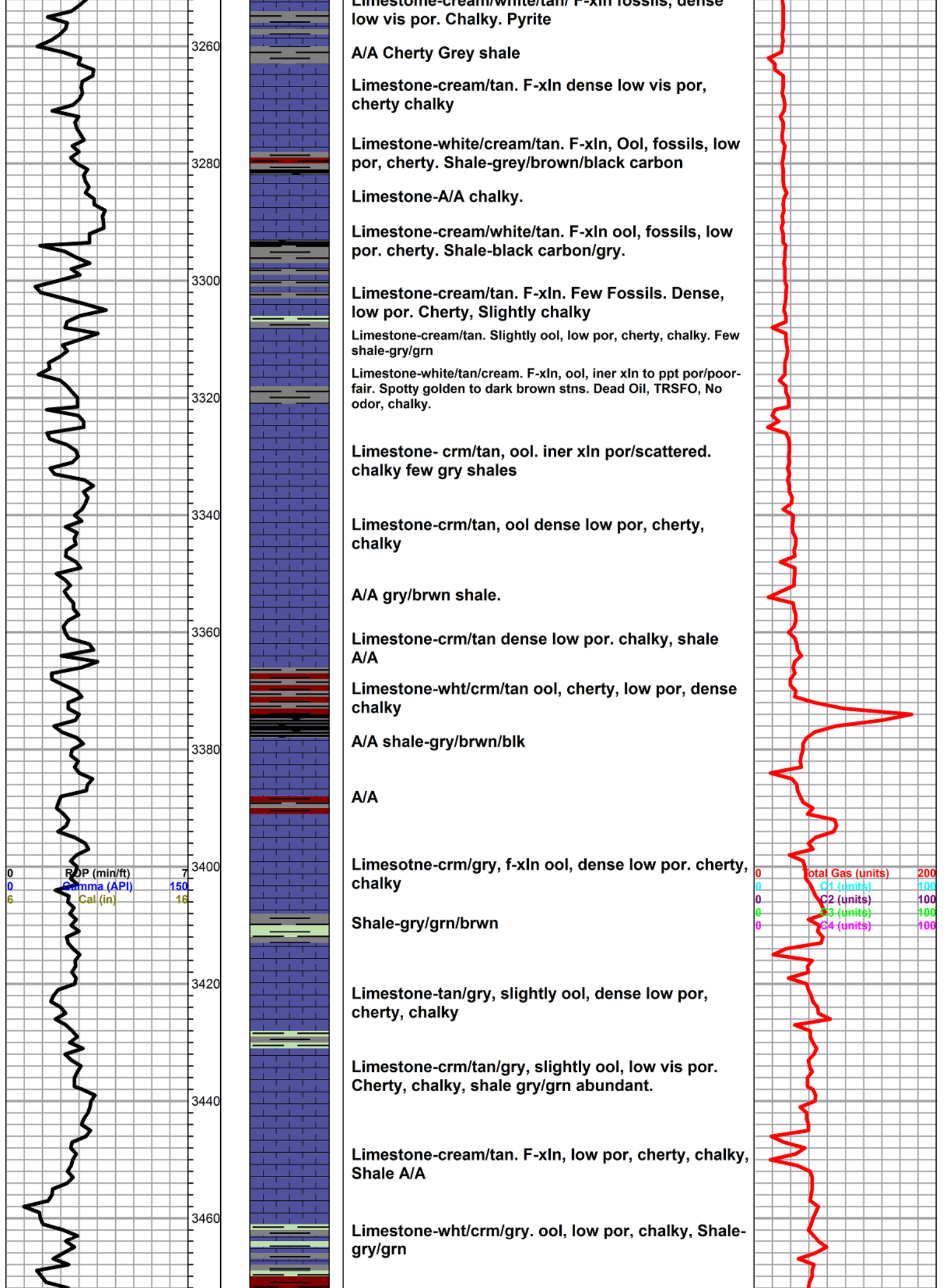
DST

■ DST Int
■ DST alt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

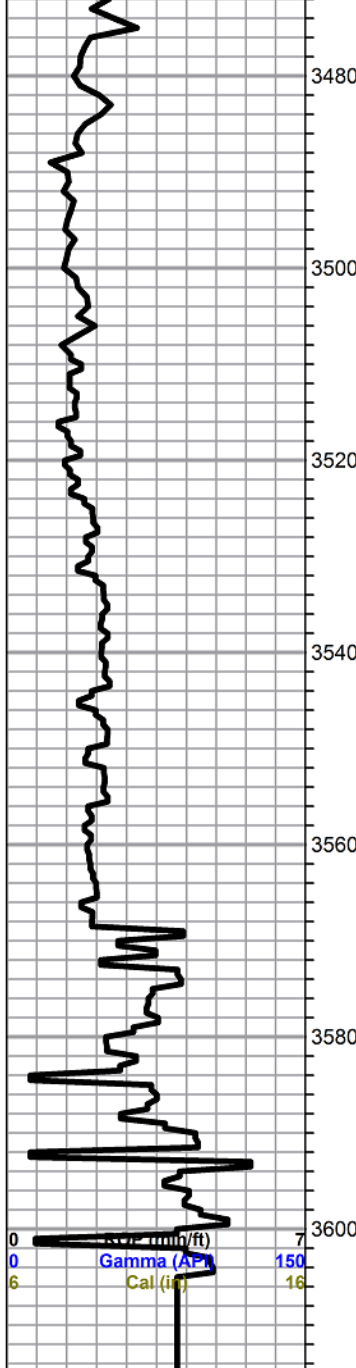






ROP (min/ft) 7
 Gamma (API) 150
 Cal (in) 16

Total Gas (Units) 200
 C1 (units) 100
 C2 (units) 100
 C3 (units) 100
 C4 (units) 100



Shale-gry/grn/brick red.

A/A. Limestone-crm/buff, low por, chalky.

A/A- poor sample.
Limestone-crm/tan. low por, dense. Chert-tan/opaque/maroon-ool

Arbuckle 3506 (-1554)
Dolomite-crm/tan. F-xln, scattered vug por, blk/drk brwn stns, dead blk/drk brwn oil stns w/ TRSFO. No odor. cherty

A/A cherty

Dolo- crm/tan, f-xln scattered vug to ppt por. Blk stns, TRSFO no odor cherty

A/A- few rhomb xln

Dolo-wht/crm, f-xln, low por, slightly stained, dark brown to black, cherty, chalky

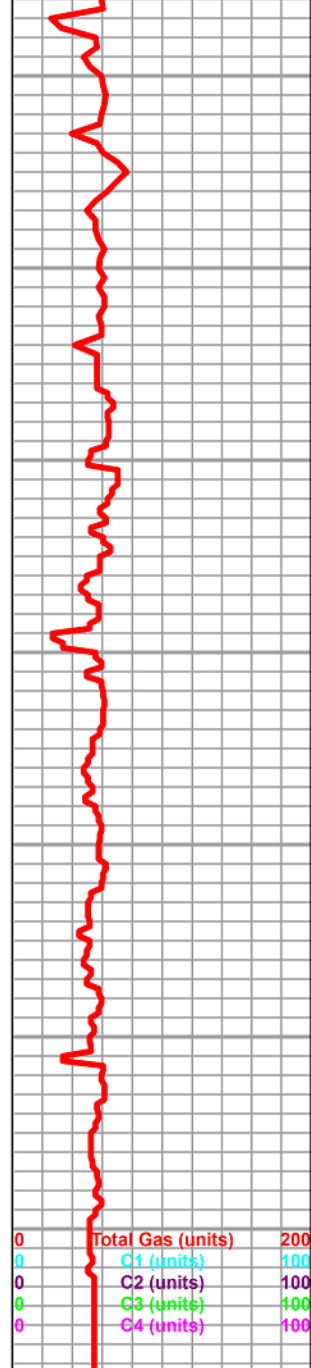
A/A

Dolor-white/crm fxln, low por, cherty, chalky

Dolor-white/cream, f xln, low iner xln por, NS, No odor. cherty, chalky

A/A

Dolo-crm/tan, fxln, iner xln por/poor-fair, slight drk brwn to blk stns,NSFO no odor.





Printed with PreView™

Weatherford®