



KANSAS CORPORATION COMMISSION 1056620
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32211
Name: O'Brien Energy Resources Corp.
Address 1: 18 CONGRESS ST, STE 207
Address 2: _____
City: PORTSMOUTH State: NH Zip: 03801 + 4091
Contact Person: Joseph Forma
Phone: (603) 427-2099
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Peter Debenham
Purchaser: _____

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

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

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

4/16/2011	4/22/2011	4/24/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-119-21283-00-00
Spot Description: _____
SW NE NW NW Sec. 4 Twp. 34 S. R. 29 East West
495 Feet from North / South Line of Section
765 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Meade
Lease Name: LARRABEE EXT. Well #: 3-4
Field Name: _____
Producing Formation: D&A
Elevation: Ground: 2558 Kelly Bushing: 2570
Total Depth: 6397 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 1551 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: 14000 ppm Fluid volume: 1800 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Dillco Fluid Service, Inc.
Lease Name: Regier IE License #: 6652
Quarter NE Sec. 17 Twp. 33 S. R. 27 East West
County: Meade Permit #: D21232

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: Doanna Garrison Date: 05/31/2011



1056620

Operator Name: O'Brien Energy Resources Corp. Lease Name: LARRABEE EXT. Well #: 3-4
 Sec. 4 Twp. 34 S. R. 29 East West County: Meade

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Dual Induction Microlog Compensated Neutron Density	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
SURFACE	12.25	8.625	24	1551.00	ACON/PREMIUM	550	3%CaCl ₂ , .25#floseal

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs. 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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	LARRABEE EXT. 3-4
Doc ID	1056620

Tops

Name	Top	Datum
HEEBNER	4434	-1858
TORNONTO	4464	-1888
LANSING	4610	-2034
MARMATON	5250	-2674
CHEROKEE	5448	-2872
ATOKA	5645	-3069
MORROW	5770	-3194
MISSISSIPPI CHESTER	5857	-3281
STE. GENEVIEVE	6236	-3660
ST. LOUIS	6294	-3718
TD	6397	-3821



BASIC
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer <i>O'Brien Energy</i>		Lease No.		Date <i>4-17-11</i>	
Lease <i>Karabec Ext</i>		Well # <i>3-4</i>		Service Receipt <i>01595</i>	
Casing <i>8 7/8 24#</i>	Depth <i>1550</i>	County <i>Meade</i>		State <i>KS</i>	
Job Type <i>Surface</i>		Formation		Legal Description <i>4-34-29</i>	
Pipe Data			Perforating Data		Cement Data
Casing size <i>8 7/8 24#</i>	Tubing Size	Shots/Ft		Lead <i>400sk-A-Con</i>	
Depth <i>1550</i>	Depth	From	To	<i>2.95 FT SK</i>	
Volume <i>966ls</i>	Volume	From	To	<i>18.1 Gal SK 11.4 #5</i>	
Max Press <i>1500</i>	Max Press	From	To	Tail in <i>150sk-A-Con</i>	
Well Connection <i>8 5/8</i>	Annulus Vol.	From	To	<i>1.34 FT SK PWS</i>	
Plug Depth <i>1508</i>	Packer Depth	From	To	<i>6.33 Gal SK 14.8 #</i>	
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log <i>7:00 AM Yard</i>
<i>900</i>					<i>Arrive On Location</i>
<i>930</i>					<i>Safety Meeting - Rig Up</i>
<i>955</i>					<i>Rig Run in Casing</i>
<i>1115</i>					<i>Circulate w/rig</i>
<i>1130</i>					<i>Hookup to BE 5</i>
<i>1150</i>	<i>1800</i>		<i>1.0</i>	<i>.5</i>	<i>Pressure Test</i>
<i>1200</i>	<i>400</i>		<i>210</i>	<i>5.0</i>	<i>Pump Lead cement @ 11.4 #5</i>
<i>1240</i>	<i>300</i>		<i>37</i>	<i>3.5</i>	<i>Pump Tail cement @ 14.8 #5</i>
<i>1255</i>					<i>Wash Up - Chp Pkg</i>
<i>1300</i>	<i>400</i>		<i>76</i>	<i>4.7</i>	<i>Displace</i>
<i>1320</i>	<i>650</i>		<i>20</i>	<i>2.5</i>	<i>Displace - Slow Down</i>
<i>1330</i>	<i>1200</i>		<i>.5</i>	<i>.5</i>	<i>Hard Plug - Float Held</i>
					<i>Cement To Surface</i>
					<i>Job Complete</i>
<i>Thanks For Using Basic Energy Services</i>					
Service Units	<i>19810</i>	<i>1988-19919</i>	<i>19805-19808</i>	<i>19827-19883</i>	<i>X-Tra</i>
Driver Names	<i>J. Chaoz</i>	<i>Adam</i>	<i>Jose M.</i>	<i>David C.</i>	<i>Heter</i>

Roger Person
Customer Representative

Jimmy Brant
Station Manager

John Chaoz
Cementer



BASIC
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer: <u>O'Brien Energy</u>	Lease No.:	Date: <u>4/23/11</u>
Lease: <u>Lashlee Fvt</u>	Well #: <u>3-4</u>	Service Receipt:
Casing:	Depth:	County: <u>Merick</u> State: <u>KO</u>
Job Type: <u>PTM</u>	Formation:	Legal Description: <u>4-34-29</u>

Pipe Data		Perforating Data		Cement Data
Casing size	Tubing Size	Shots/Ft		Lead <u>1604K @ 410 Per</u>
Depth	Depth	From	To	<u>0-13.5#</u>
Volume	Volume	From	To	<u>1.50 cut HSK 410 Per</u>
Max Press	Max Press	From	To	<u>7.50 gal / hr</u>
Well Connection	Annulus Vol.	From	To	Tail in
Plug Depth	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
21:30					on loc, spot trucks, sat down
23:21		100	10	4	Run 1120 SGR
23:24		13.0	0	5	Start 60K @ 0-13.5# <u>disk</u>
23:27		13.3	2	2	Run 4120 SGR
23:30		0	2	5	Annul
23:31		0	17	-	Shut down Pull to 4160
00:00		30	10	40	1120 SGR
00:59		50	10	5	Start 4120 @ 13.5#
01:53		10	11.6	4	Run 2120
02:54		0	2	-	Shut down Pull to 60
03:27		0	0	4	Start 2050 @ 13.5#
04:00		0	5.5	-	Shut down Pull RTHM
04:15		0	0	0	Plug RTHM
04:30					Wash up Pth
04:35					Job Complete

Service Units:	<u>190000</u>	<u>20-16319443</u>	<u>14755</u>	<u>19577</u>
Driver Names:	<u>CH</u>	<u>R</u>	<u>S</u>	<u>L</u>

[Signature] Customer Representative
 [Signature] Station Manager
 [Signature] Cementer

O'Brien Energy Resources, Inc.
Larrabee Extension No. 3-4
Section 4, T34S, R29W
Meade County, Kansas
April, 2011

Well Summary

The O'Brien Energy Resources, Corporation, Larrabee Extension No. 3-4 was drilled to a total depth of 6395' in the Mississippian St. Louis Formation in a total of 122 rotating hours and without any problems. Appreciation to Duke Rig 6 hands.

The Larrabee Extension No. 3-4 offset the Larrabee No. 1-4 by 3190' to the west. Formation tops came in high relative to this offset. The Heebner, Toronto and Lansing came in 24', 20' and 16' high respectively. The Marmaton, 8' high. The Cherokee, Atoka and Morrow ran 20', 16' and 26' high. The Chester came in 11' high and the Ste. Genevieve, 16' high. The Marmaton came in 13' low relative to the Raydon Exploration, No. 1-4 Irish Flats, to the Southeast. The Morrow and Chester, 10' low relative to this offset.

Several worthy hydrocarbon shows were encountered during the drilling of this test. The Marmaton(5250'-5262') consists of a Limestone: Medium to light mottled brown, oomicrite, micro to finely crystalline, microsucrosic in part, brittle, clean, very soft and chalky in part, very fossiliferous & oolitic with good moldic porosity with sparry calcite infill, intercrystalline & vuggy porosity, bright light speckled blue hydrocarbon fluorescence(6% spl), slow streaming to bleeding cut, trace light oil stain. A 60 Unit gas increase was noted.

The Chester(5992'-5999') consists of a Limestone to a very calcareous Sandstone: Medium to dark mottled gray to brown, speckled black, hard to friable in part, fine well sorted grains, very calcareous, argillaceous, occasional good intergranular & vuggy porosity, speckled black oil stain, dark brown live oil, speckled gold brown hydrocarbon fluorescence(5% spl), excellent streaming cut. A 160 Unit gas increase occurred.

The Lower Chester(6140'-6146') consists of a Limestone: Medium to dark brown with oil staining, oomicrite, microcrystalline, microsucrosic, brittle, clean to argillaceous, very oolitic with excellent oomoldic porosity, occasional vuggy and intercrystalline porosity with matrix oil staining, dull brown to bright yellow hydrocarbon fluorescence(8% spl), excellent fast streaming cut, trace live dark brown oil. A 430 Unit gas kick was documented. This interval tested tight and recovered 428' of gas and 130' of gas cut mud(10% gas).

Additional minor shows were documented(attached mudlog).

The Larrabee Extension No. 3-4 was plugged and abandoned 4/24/11.

Respectfully Submitted,



Peter Debenham

WELL DATA

Operator: O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH
Geologist: Paul Wiemann – Denver, CO

Prospect Geologist: Ed Schuett, David Ward

Well: Larrabee Extension No. 3-4

Location: 510' FNL & 770' FWL, Section 4, T34S, R29W, Meade County, Kansas – South of Meade.

Elevation: Ground Level 2564', Kelly Bushing 2576'

Contractor: Duke Drilling Rig No. 6, Type: Double jackknife, triple stand, Toolpusher Rick Schollenbarger, Drillers: , Danny White, Mike Brewer

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 4/16/11

Total Depth: 4/22/11, Driller 6395', Logger 6397', St. Louis

Casing Program: 39 joints of 8 5/8", J55, 24Lbs/ft, set at 1550'.

Mud Program: Mud Co./Service Mud Inc., Engineer Brad Boritz, mud up 2600'.

Wellsite Consultant: Peter Debenham with mudlogging trailer, Call depth 4000', Box 350, Drake, CO 80515, 720/220-4860.

Samples: 30' to 5750', 10' to TD. Zones of interest saved.

Electric Logs: Weatherford, Engineer Lynn Scott, 1)Dual Induction 2) Compensated Neutron Litho Density 3) Microlog

Drill Stem Testing: Trilobite, Engineer Leal Carson. DST No. 1(6136'-6195'), Chester Fm.

Status: Plugged and abandoned 4/24/11

DEVIATION RECORD - degree

1005' ½, 1550' 2, 2572' 1/2, 4327' ½, 6395' ½

MUD PROPERTIES

<u>DATE</u>	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>pH</u>	<u>WL</u>	<u>CL</u>	<u>LCM-LBS/BBL</u>
4/17	1550'	9.4	33	2	4	7.0	n/c	32.5K	4
4/18	2420'	9.7	28	1	2	7.0	n/c	92K	0
4/19	3646'	9.4	38	6	8	7.0	n/c	12.6K	2
4/20	4677'	9.3	40	8	14	10.0	9.2	2K	2
4/21	5676'	9.3	52	15	22	10.5	8.0	2.5K	4
4/22	6395'	9.3	53	16	20	10.5	8.0	2K	2

ELECTRIC LOG FORMATION TOPS- KB Elev. 2576'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Larrabee No. 1-4</u> <u>DATUM</u>	<u>POSITION</u>
Heebner	4434'	-1858'	-1882'	+24'
Toronto	4464'	-1888'	-1908'	+20'
Lansing	4610'	-2034'	-2050'	+16'
Marmaton	5250'	-2674'	-2682'	+8'
Cherokee	5448'	-2872'	-2892'	+20'
Atoka	5645'	-3069'	-3085'	+16'
Morrow	5770'	-3194'	-3220'	+26'
Mississippi Chester	5857'	-3281'	-3292'	+11'
Ste. Genevieve	6236'	-3660'	-3676'	+16'
St. Louis	6294'	-3718'		
TD	6397'	-3821'		

*O'Brien Energy, Larrabee No. 1-4, 330'FNL & 1320'FEL, Sec. 4 - 3190' to the East, K.B. Elev. 2550'.

DRILL STEM DATA

DST NO. 1:(6136'-6195'), Chester Fm.

Type: Straddle, Times: 24-68-20-122

Blows: IF - Bottom of bucket in 12 min., FF - Weak to 3" blow, SI's - no blow back.

<u>PERIOD</u>	<u>PSI</u>
IH	3085
IF	101 - 178
ISI	1348
FF	167 - 107
FSI	1265
FH	2988

BHT 135 deg. F.

RECOVERY: 428' gas, 130' gas cut mud(10% gas). Sample Chamber - 2000 ml mud(20% gas), 500 PSI.

ACCESSORIES

FOSSIL

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

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb

- Chtdk
- Chtit
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt

- Sandy
- Silt
- Sil
- Sulphur
- Tuff

STRINGER

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

- Ssstrg

TEXTURE

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

OTHER SYMBOLS

INTERVALS

- Core
- Dst

EVENTS

- Rft
- Sidewall

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic

- Pinpoint
- Vuggy

SORTING

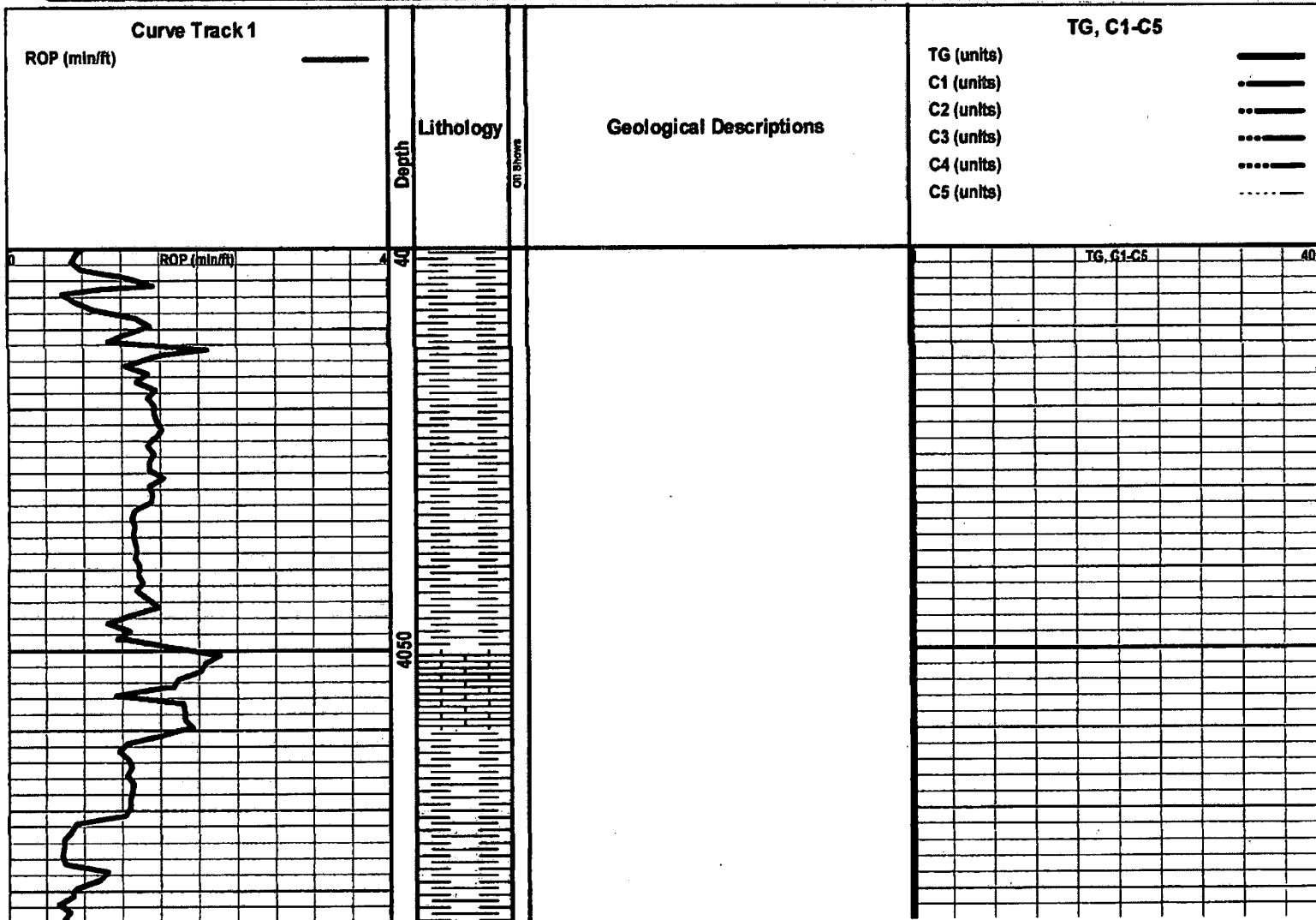
- Well
- Moderate
- Poor

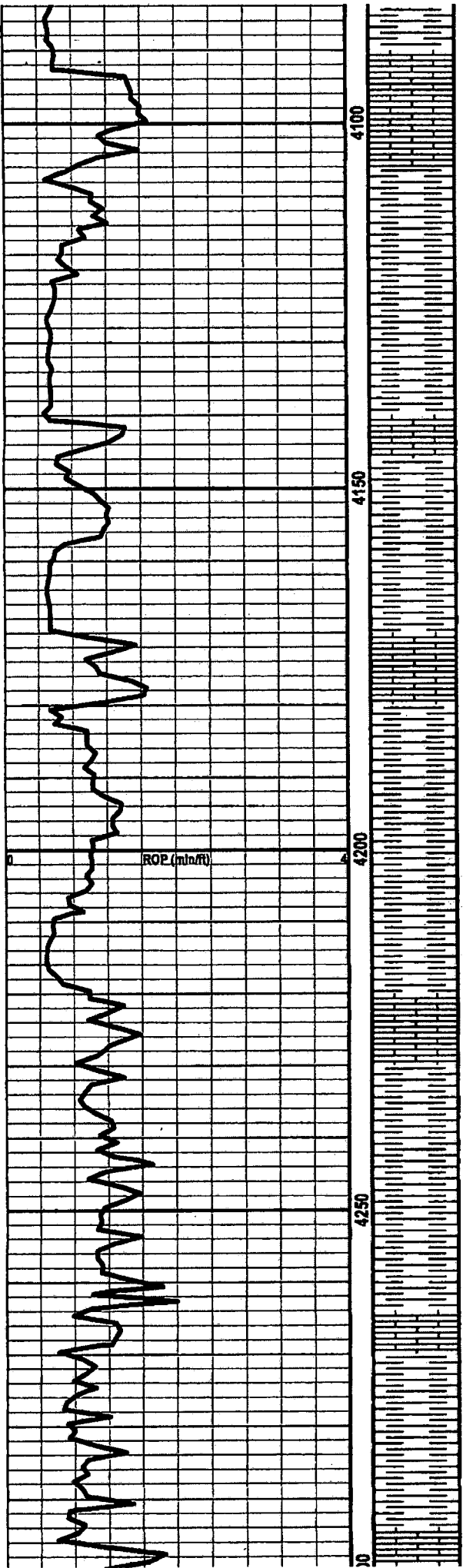
ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead





Tr LIMESTONE: Dk gray brown mottled mic crpxln hard dense argillaceous to marly tight no show with SHALE: Dk brown to gray black firm sbfis to blocky carbonaceous calcareous silty

LIMESTONE: Dk gray brown mottled mic crpxln hard dense argillaceous to marly tight no show

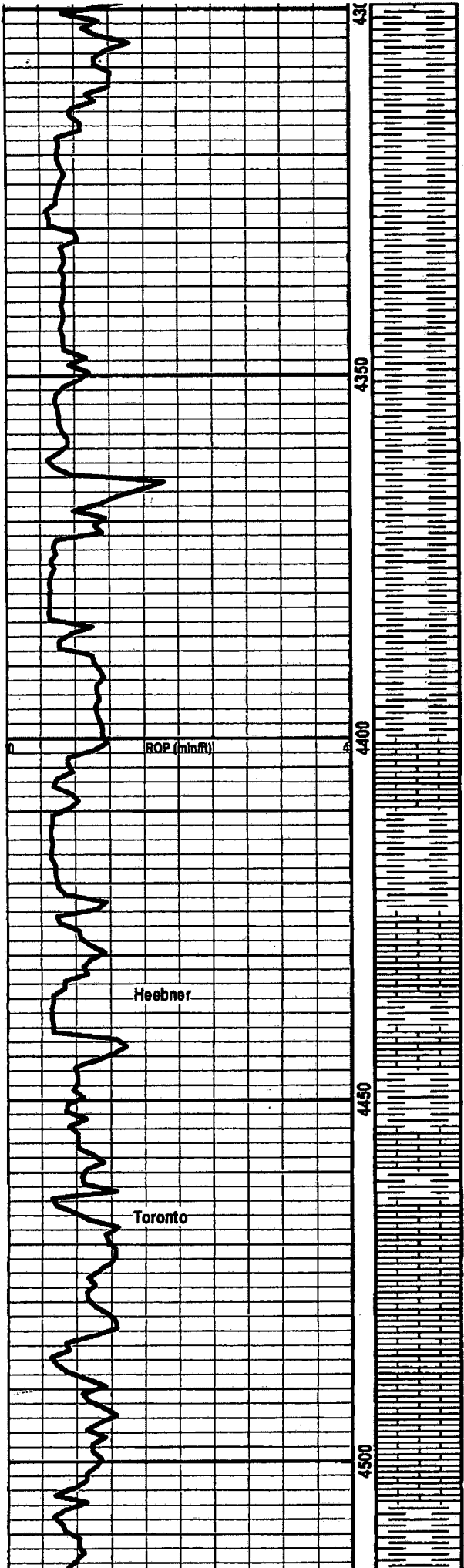
SHALE: Dk brown black firm blocky carbonaceous calcareous silty

LIMESTONE: Dk gray brown mottled mic crpxln hard dense argillaceous to marly tight no show with SHALE: Dk brown to gray black firm sbfis to blocky carbonaceous calcareous silty

LIMESTONE: Dk mottled brown crpxln hard dense argillaceous to marly tight no show interbed with SHALE: Dk brown black firm blocky sbfis carbonaceous calcareous silty

TG, C1-C5

40

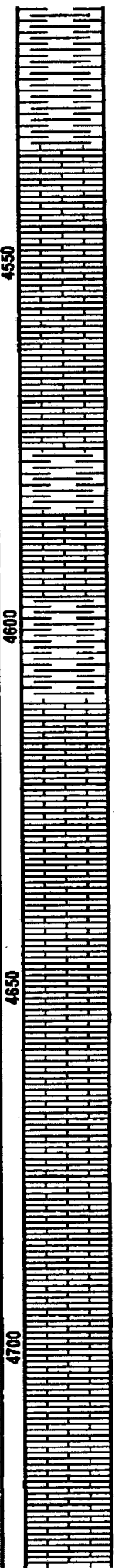
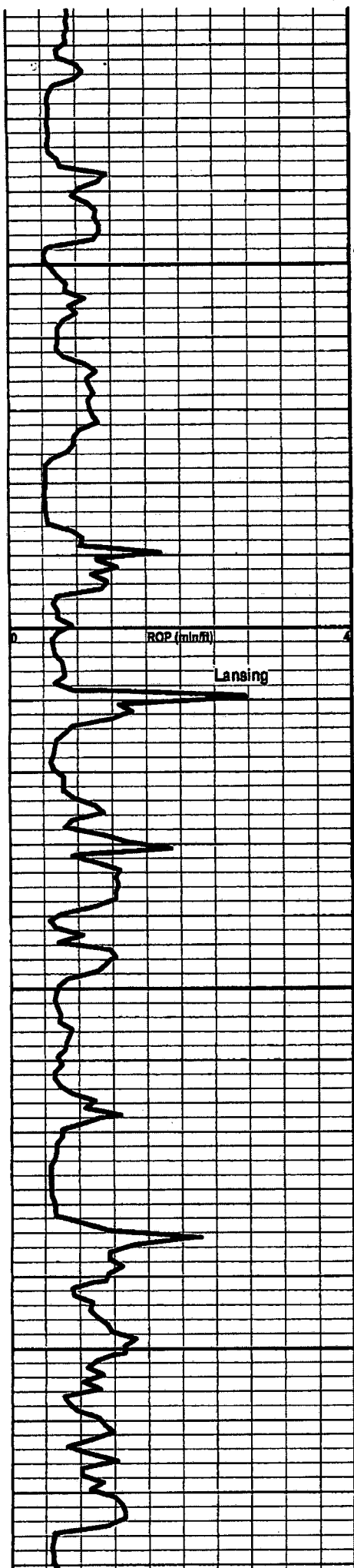


SHALE: Blk dark brown firm abfis to blocky very carbonaceous in part calcareous silty

SHALE: Blk dark brown firm fissile waxy very carbonaceous silty interbed with LIMESTONE: Brn mottled white to buff biomicr fine crystalline abchky in part clean to argillaceous fossils no fluorescence no stain or cut

LIMESTONE: Lt to medium brown buff white micxn to crpxh hard dense silica in part micruc in part clean fossils trace in bdn porosity no show

SHALE: Blk dark brown firm abfis waxy silty



SHALE: Blk dark gray hard fissile to blocky carbonaceous

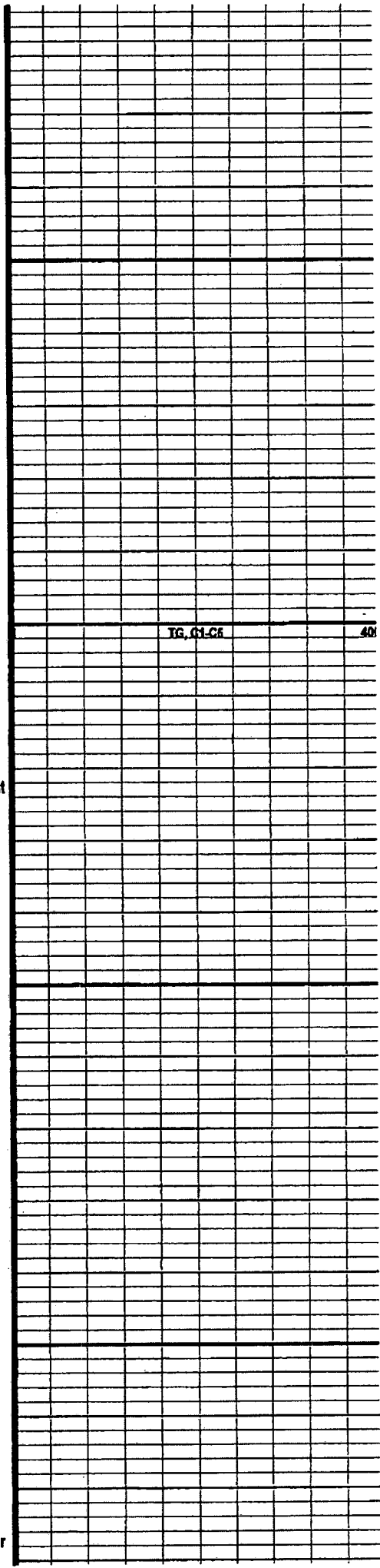
LIMESTONE: Mot brown to gray micr fine crystalline hard dense argillaceous to marly in part endy fossils silica and tight occasional sbchky no show interbed with SHALE: Blk dark gray hard fissile to blocky carbonaceous calcareous silty mica

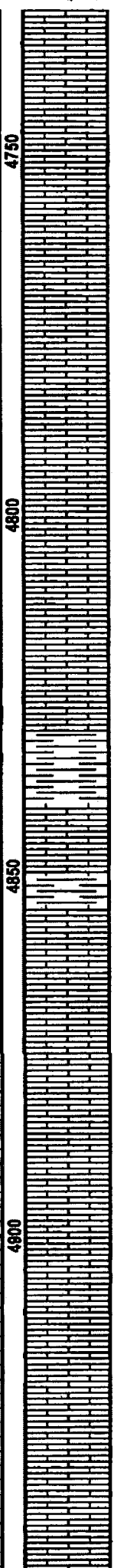
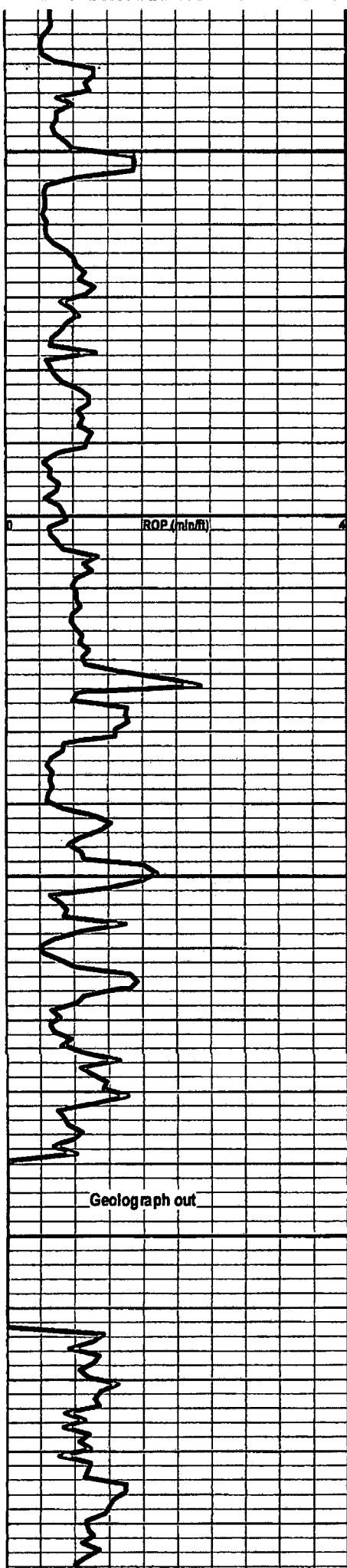
SHALE: Blk dark gray hard fissile to blocky carbonaceous calcareous silty mica with LIMESTONE: As above no show

LIMESTONE: Med mottled brown biomic fine crystalline dense clean to argillaceous fossils tight no show with LIMESTONE: Med brown light brown to tan biomic micxn micsuc to sucrosic in part brittle clean fossils oolites gd intrxn and moldic porosity orange mineral fluorescence no stain or cut no show interbed with SHALE: Dk brown gray black firm sbfis carbonaceous

LIMESTONE: Med to dark mottled brown crpxn hard dense silica argillaceous to marly in part endy fossils mineral fluorescence no show interbed with SHALE: as above

LIMESTONE: Brn micxn micsuc brittle clean fair intrxn and occasional oomoldic porosity no





fluorescence no stain or cut

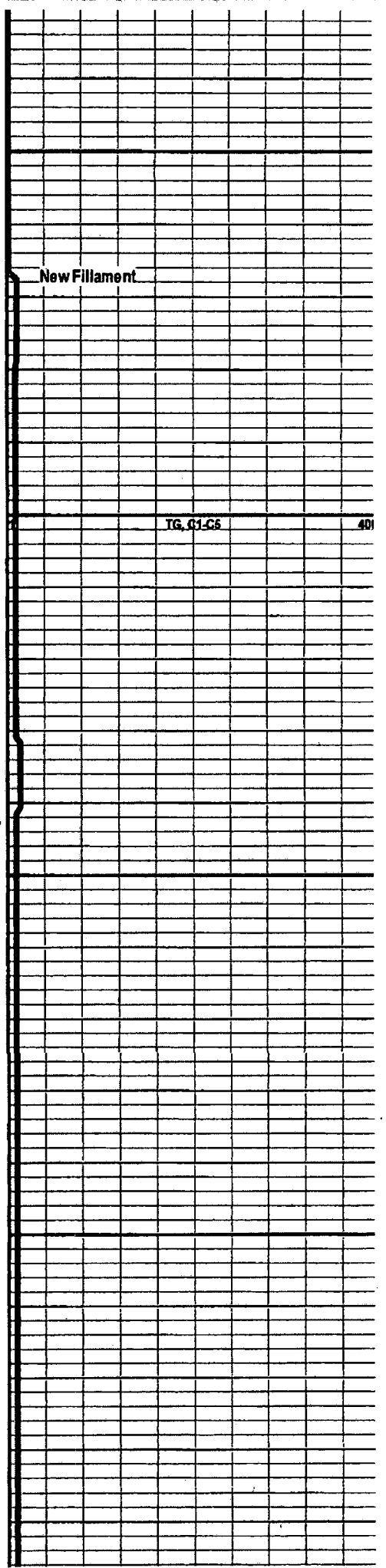
LIMESTONE: Dk mottled brown crpxn hard dense silica tight no show occasional interbed with **SHALE:** Blk dark brown firm fissile carbonaceous

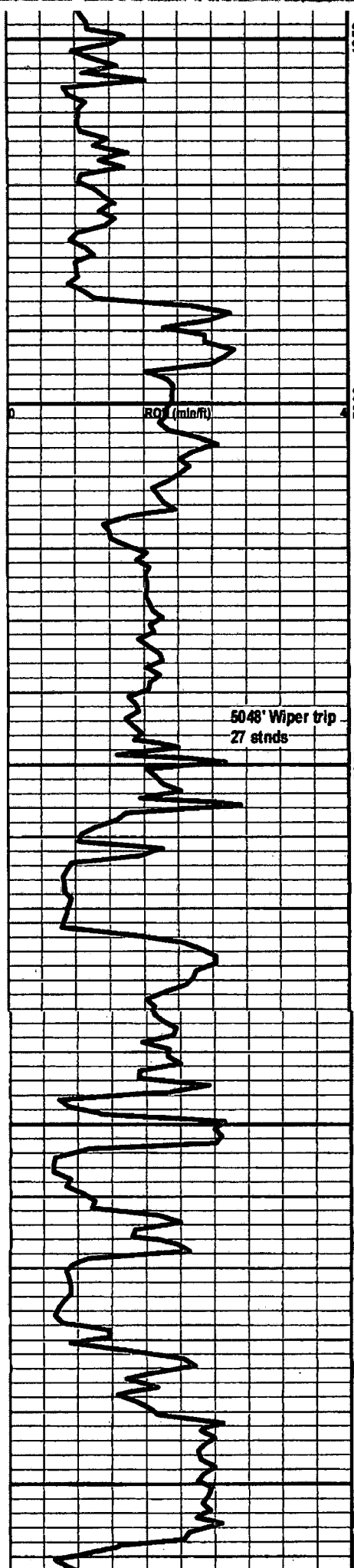
LIMESTONE: Mot brown biomic micxn mcsuc brittle clean to argillaceous fossils oolites andy occasional gd oomoldic porosity trace inbdn porosity mineral fluorescence no stain ro cut no show

SHALE: Dk brown black gray firm to hard blocky carbonaceous calcareous interbed with **LIMESTONE:** Gy brown crpxn hard dense silica argillaceous to marly occasional moldic porosity no fluorescence no stain or cut

LIMESTONE: Lt brown buff micxn sbchky in part clean fossils oolites occasional moldic porosity trace inbdn porosity no show occasional very silica and tight with trace CHRT

SHALE: Gy black brown hard blocky silica interbed with **LIMESTONE:** Brn crpxln hard





dense silica tight

LIMESTONE: Light brown oomicrite microcrystalline microsugrosic brittle clean subchalky in part very oolitic oomoldic & vuggy porosity tr intercrystalline porosity light speckled blue hydrocarbon fluorescence(1% sp) slow streaming cut no stain

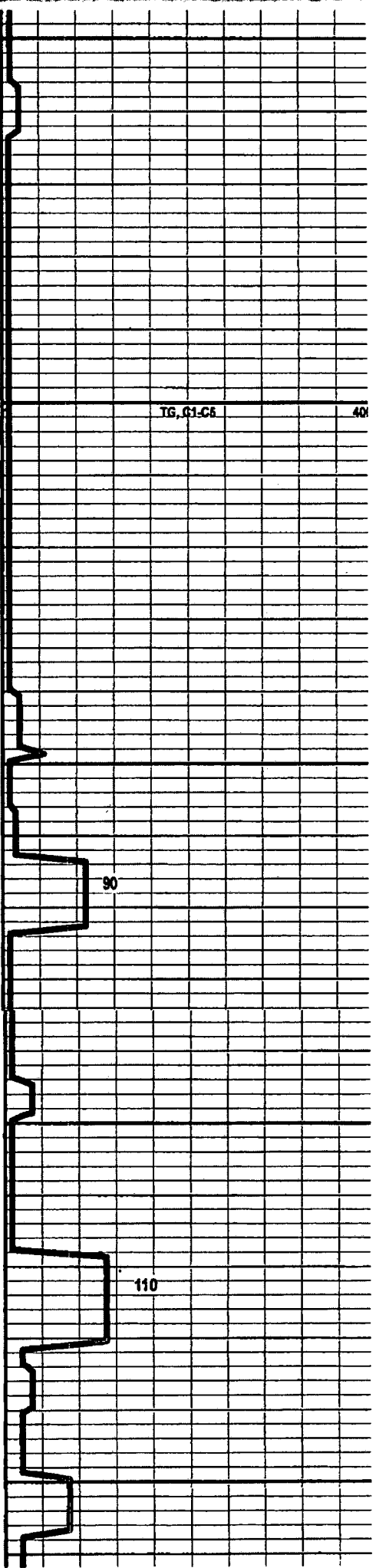
LIMESTONE: Dk to medium brown mottled crpxln hard dense silica argillaceous to marly tight no show

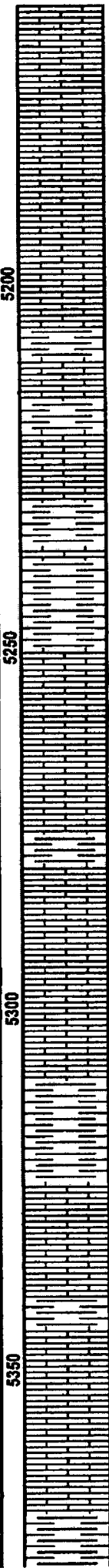
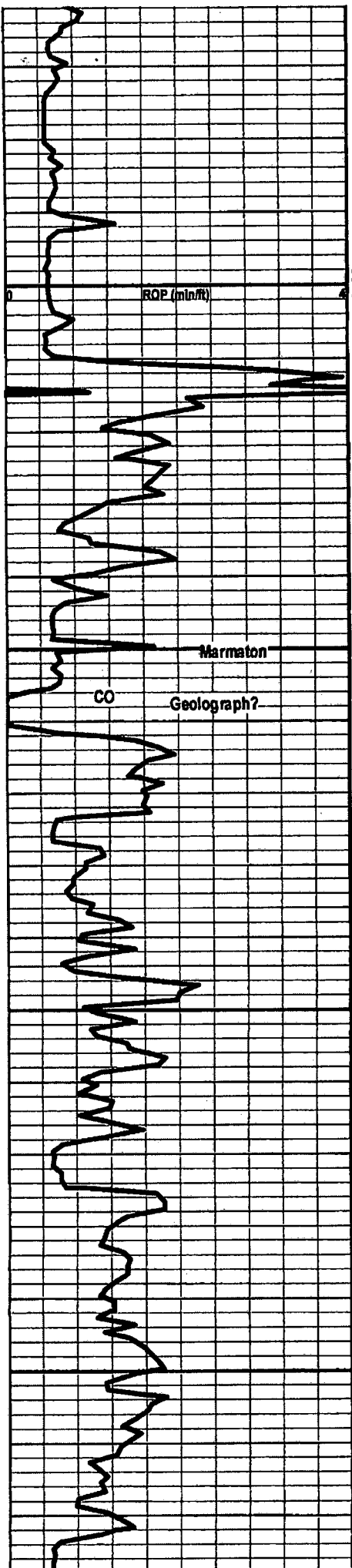
SHALE: Dk brown black firm sbfis to blocky very carbonaceous calcareous silty

LIMESTONE: Mot brown oomicr micxln brittle clean very oolites with exc oomoldic porosity mineral fluorescence no hydrocarbon fluorescence no stain or cut

SHALE: Dk gray black firm blocky waxy carbonaceous with LIMESTONE: as above silica and tight no show

LIMESTONE: Lt brown buff oomicr very chalky in part clean very oolitic with moldic porosity no fluorescence no stain or cut





LIMESTONE: Lt brown buff oomicr very chalky in part clean very oolitic with moldic porosity no fluorescence no stain or cut trace CHRT

SHALE: Blk frm fissile waxy carbonaceous silty interbed with LIMESTONE: Brn sbchky clean fossils no show

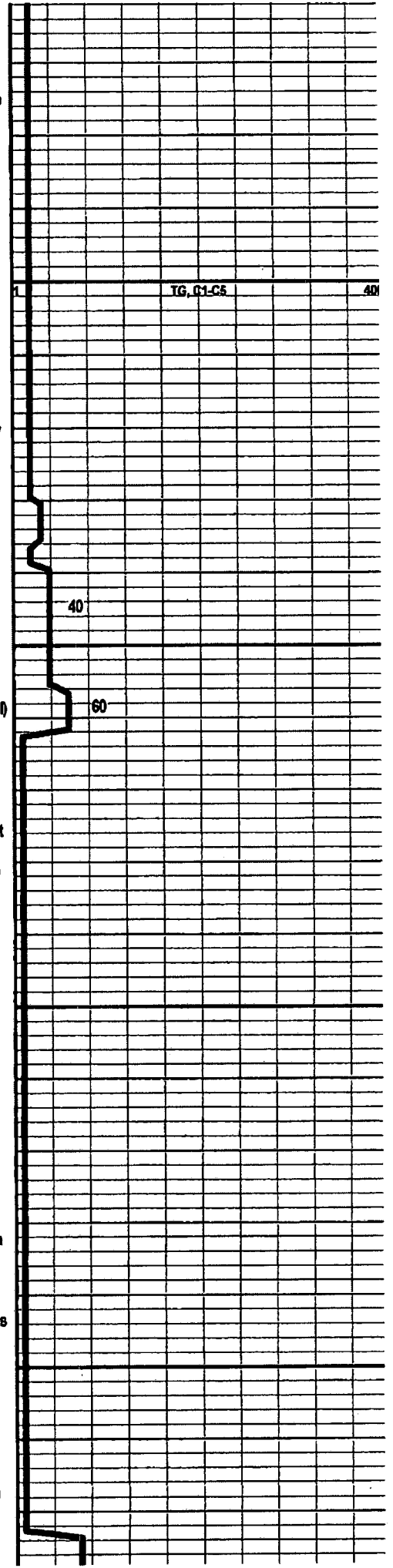
LIMESTONE: Medium to light mottled brown oomicrite micro to finely crystalline microcrucic in part brittle clean very soft and chalky in part very fossiliferous & oolitic with good moldic porosity with sparry calcite infill intercrystalline & vuggy porosity bright light speckled blue hydrocarbon fluorescence(6% sp) slow streaming to bleeding cut trace light oil stain

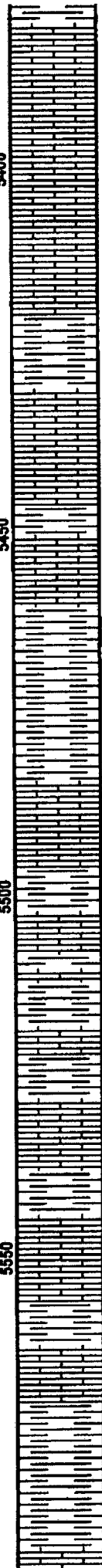
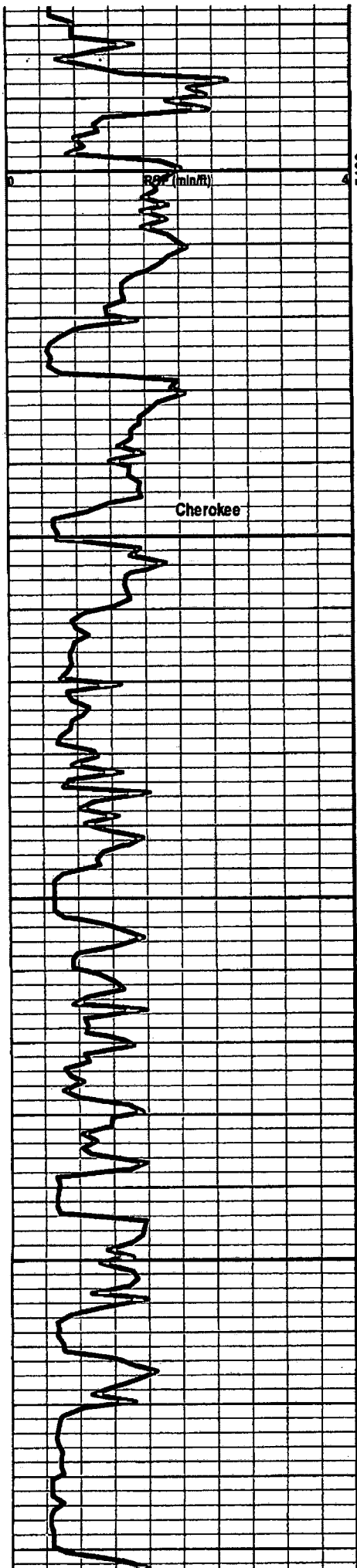
LIMESTONE: Lt to medium brown buff micxn micruc in part predominant hard silca and tight oolites clean to argillaceous trace oomoldic porosity and intxn porosity no fluorescence no stain or cut with LIMESTONE: Dk brown crpxn silca hard tight no show interbed with SHALE: as above

LIMESTONE: Lt/medium brown buff micxn micruc sbchky clean fossils trace intxn and very fine vug porosity no show

LIMESTONE: Dk brown crpxn hard dense silca argillaceous to marly in part tight with LIMESTONE: Lt brown buff soft chalky clean fossils occasional oomoldic porosity no show interbed with SHALE: Dk gray to black frm sbfis carbonaceous

SHALE: Blk frm fissile very carbonaceous with LIMESTONE: Crpxn hard dense tight no show





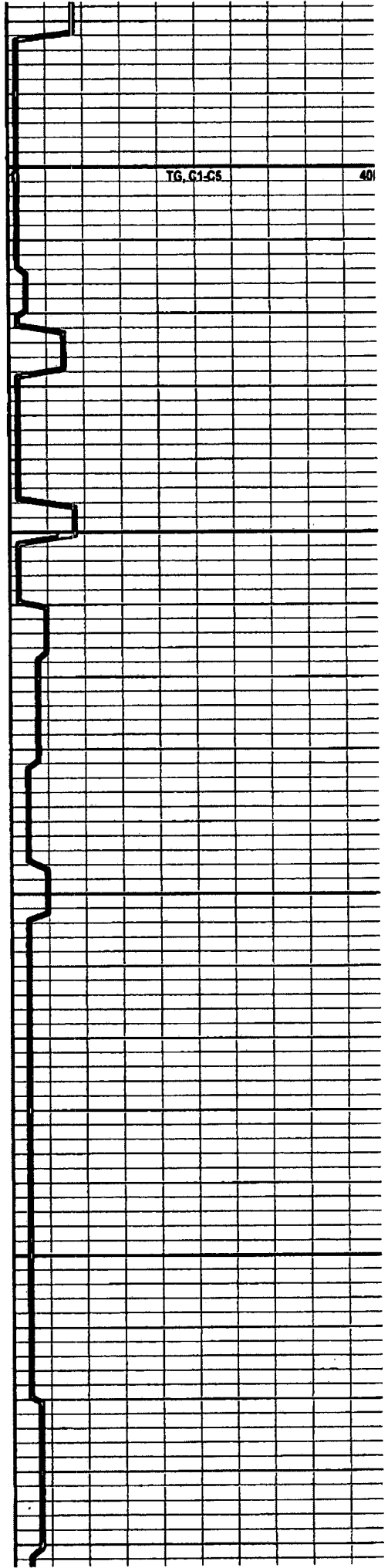
LIMESTONE: Med gray brown fine crystalline hard dense argillaceous to marly fossils carbonaceous tight interbed with SHALE: Blk fissile carbonaceous

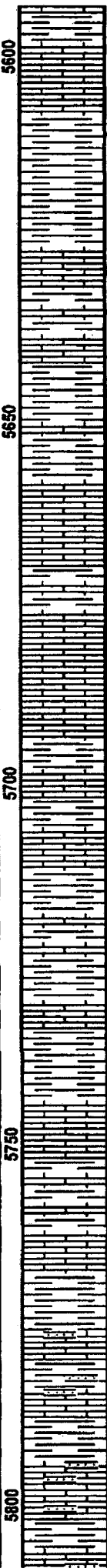
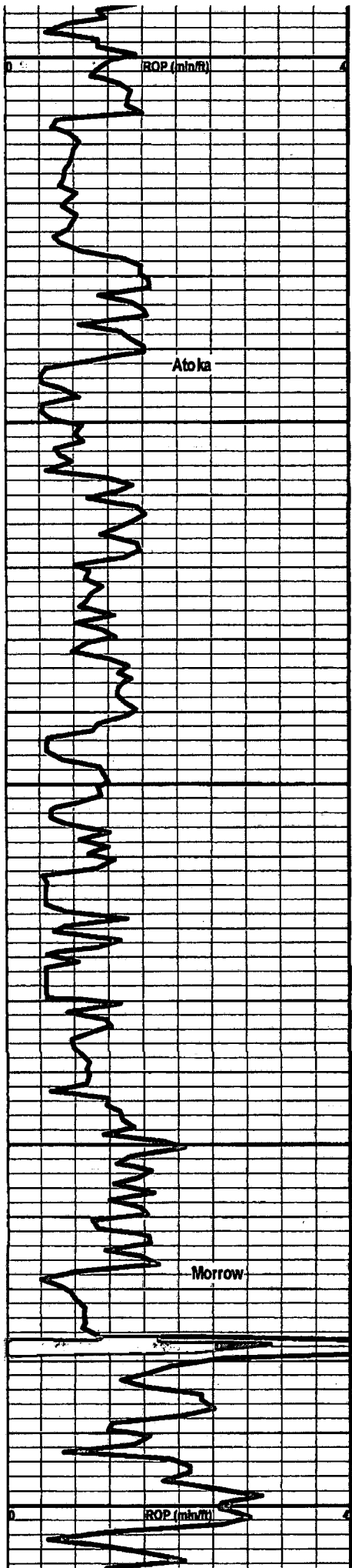
TG, G1-G5 40

LIMESTONE: Med to dark mottled gray brown micr fine crystalline hard dense marly fossils carbonaceous tight no show interbed with SHALE: Gy black fissile to blocky carbonaceous calcareous silty

SHALE: Blk very dark brown hard sbfis carbonaceous calcareous silty interbed with LIMESTONE: Med to dark brown to gray occasional black micr crpxn hard dense silica marly tight no show trace CHRT

SHALE: Blk very dark brown hard sbfis carbonaceous calcareous silty interbed with LIMESTONE: Med to dark brown to gray occasional black micr crpxn hard dense silica marly tight no show trace CHRT





LIMESTONE: Mot brown fine crystalline hard dense silica sbchky in part argillaceous pyrite tight no show interbed with SHALE: as above

LIMESTONE: Dk mottled brown gray black crpxln dense silica marly in part tight no fluorescence no stain or cut interbed with SHALE: Blk sbfis to blocky carbonaceous calcareous silty

LIMESTONE: Dk mottled brown gray black crpxln dense silica marly in part tight no fluorescence no stain or cut interbed with SHALE: Blk sbfis to blocky carbonaceous calcareous silty

LIMESTONE: Dk mottled brown gray black crpxln dense silica marly in part tight no fluorescence no stain or cut interbed with SHALE: Blk sbfis to blocky carbonaceous calcite

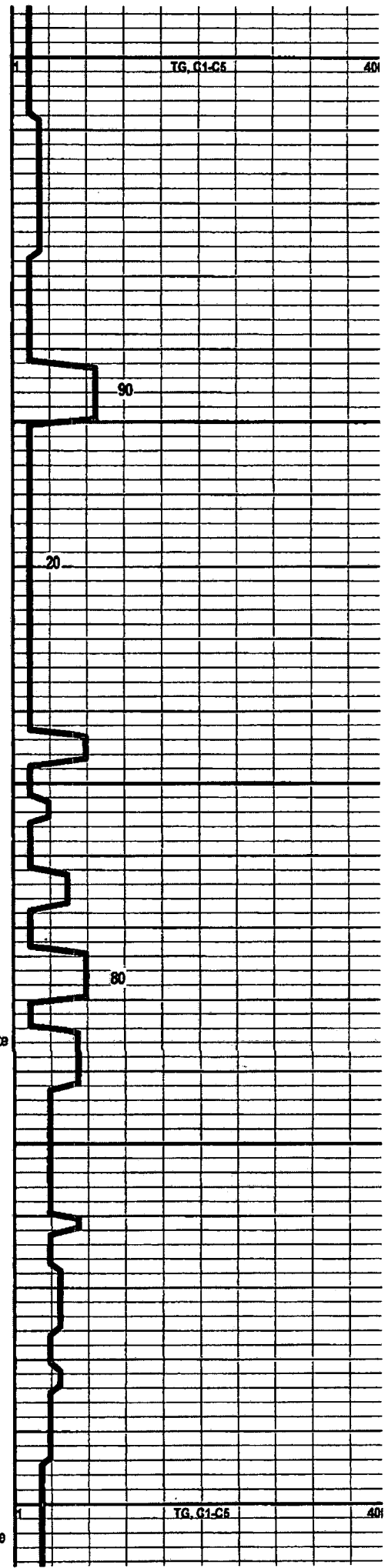
SHALE: Blk dark brown to gray firm fissile to blocky carbonaceous calcareous

LIMESTONE: Dk mottled brown gray black crpxln dense silica marly in part tight no fluorescence no stain or cut

SHALE: Blk fis carbonaceous trace COAL

SHALE: Blk fic carbonaceous

LIMESTONE: S&P Speckled green to gray mottled brown finely crystalline dense subchalky in part clean to argillaceous sandy very glauconitic pyritic fossiliferous poor visible porosity no fluorescence no stain or cut occ



TG, G1-C5

40

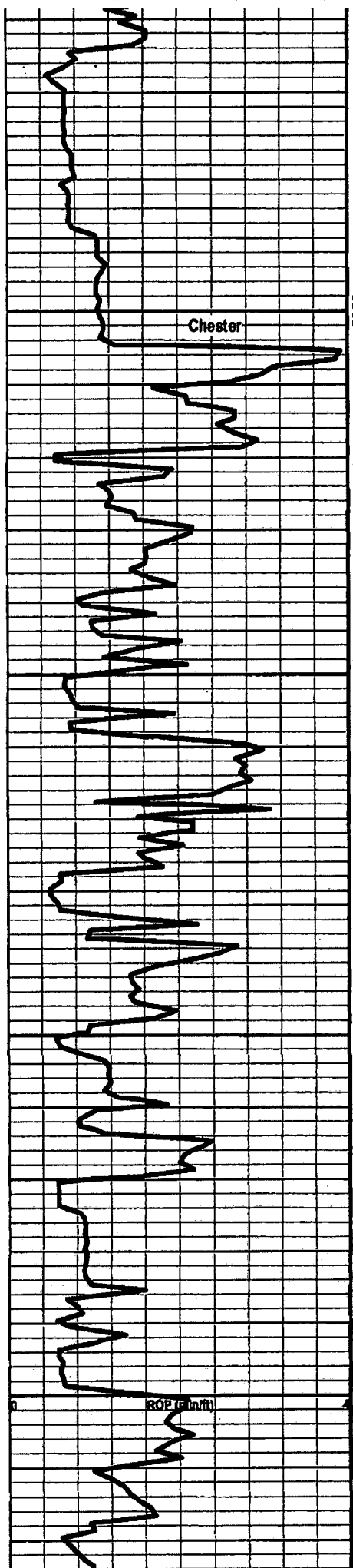
90

20

80

TG, G1-C5

40



grading to very green and glauconitic Sandstone: Tight no show abt clay infill interbedded with SHALE: As below

SHALE: Blk dark gray firm fissile waxy carbonaceous with very sandy LIMESTONE: As above occ grading to Sandstone: tt abundant clay infill no show

LIMESTONE: Brn buff mottled fine crystalline sbchky clean fossils sndy in part no fluorescence no stain or cut

LIMESTONE: Lt to medium mottled brown gray buff micr micxn sbchky to chalky firm to soft waxy fossils sndy carbonaceous tight no show interbed with SHALE: Dk brown gray firm fissile carbonaceous

LIMESTONE: Med to dark mottled brown occasional buff biomicr fine crystalline sbchky in part silica and hard in part carbonaceous fossils sndy clean to argillaceous tight no show

SHALE: Blk brown firm sbfils carbonaceous silky

LIMESTONE: Med to dark mottled brown occasional buff biomicr fine crystalline sbchky in part silica and hard in part carbonaceous fossils sndy clean to argillaceous tight no show

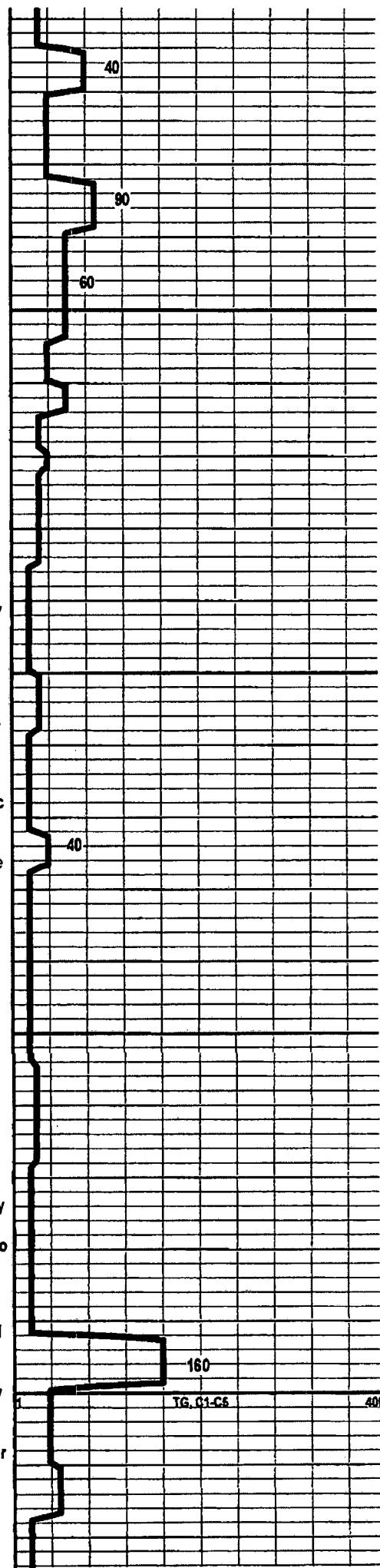
LIMESTONE: Light to medium mottled gray to brown biomicrite microcrystalline microscucrosic subchally brittle clean to argillaceous fossiliferous sandy in part trace intercrystalline and moldic porosity pred tight pale mottled blue hydrocarbon fluorescence(2% sp) slow weak streaming to bleeding cut no stain weak show

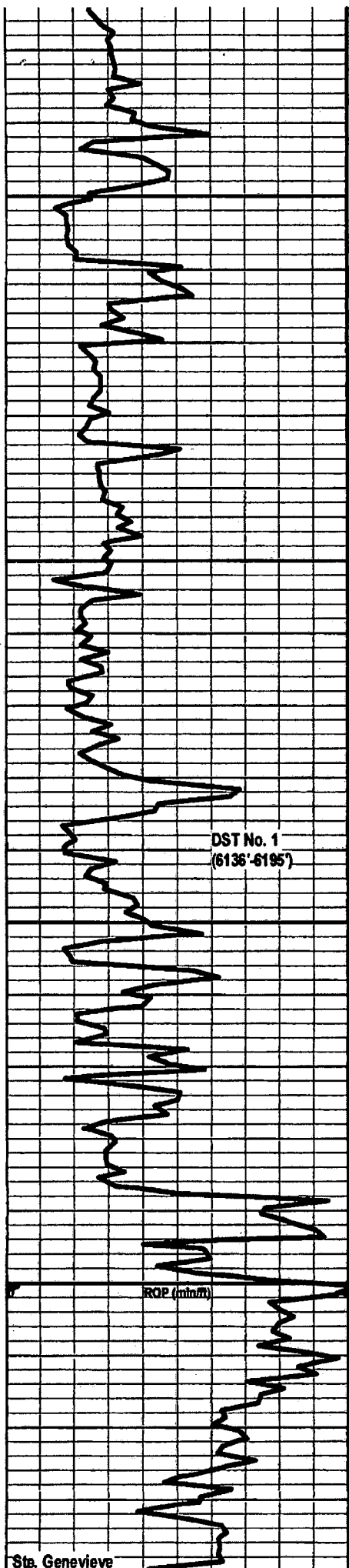
LIMESTONE: Dk brown biomicr crpxn hard dense fossils tight no show with SHALE: Blk dark brown firm soft fissile with

SHALE: Blk dark brown firm soft fissile with LIMESTONE: Dk brown biomicr crpxn hard dense fossils tight no show

SHALE: Gy soft waxy fissile with LIMESTONE: Med brown mottled gray fine crystalline micsuc clean to argillaceous fossils carbonaceous sndy sbchky in part tight occasional trace mottled pale blue hydrocarbon fluorescence weak cut no stain weak show

LIMESTONE/V Calc SS: Medium to dark mottled gray to brown speckled black hard to friable in part fine well sorted grains very calcareous arg occasional good intergranular & vuggy porosity speckled black oil stain dark brown live oil speckled gold brown hydrocarbon fluorescence(5% sp) excellent streaming cut fair show





LIMESTONE: Gray dark mottled brown hard dense subchalky in part fossiliferous carbonaceous tight no show with SHALE: as below

SHALE: Gy black firm fissile

LIMESTONE: Mot brown gray micr fine crystalline firm dense sbchky in part sandy tight no show interbed with SHALE: as above

LIMESTONE: Light to medium mottled brown to gray biomicrite finely crystalline firm dense fossiliferous sandy poor visible porosity occ pale mottled blue hydrocarbon fluorescence weak cut no stain very weak show

LIMESTONE: Light to medium mottled brown to gray biomicrite finely crystalline firm dense fossiliferous sandy poor visible porosity occ pale mottled blue hydrocarbon fluorescence weak cut no stain very weak show with interbedded SHALE: Dark gray black

SHALE: Dk gray brown black occasional gygn to green violet maroon varicolored soft waxy fissile

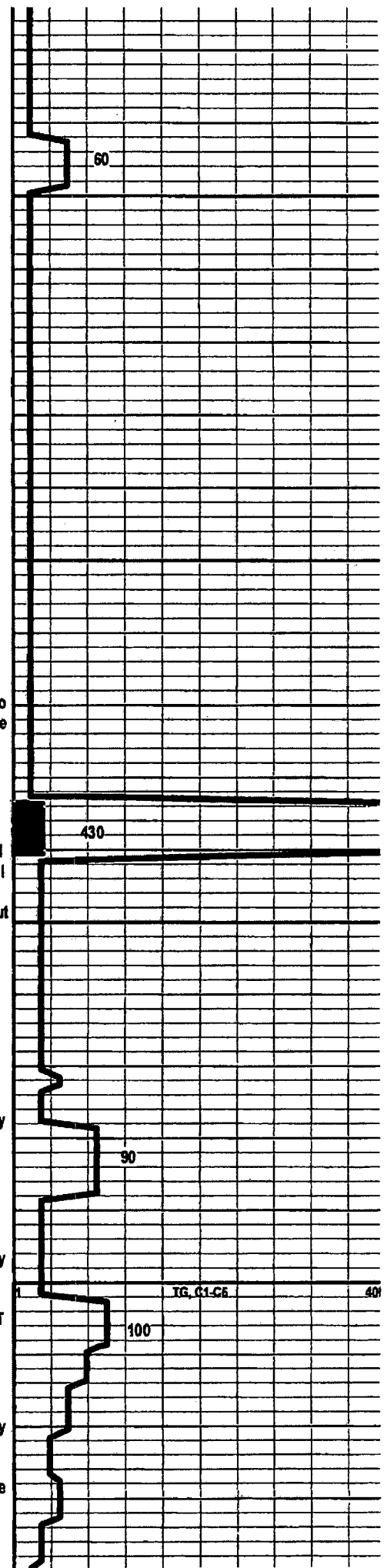
LIMESTONE: Medium to dark brown with oil staining oomicrite microcrystalline microsucrosic brittle clean to arg very oolitic with excellent oomoldic porosity occ vuggy and intercrystalline porosity with matrix oil stain dull brown & occ bright yellow hydrocarbon fluorescence(8% spf) excellent fast streaming cut live dark brown oil

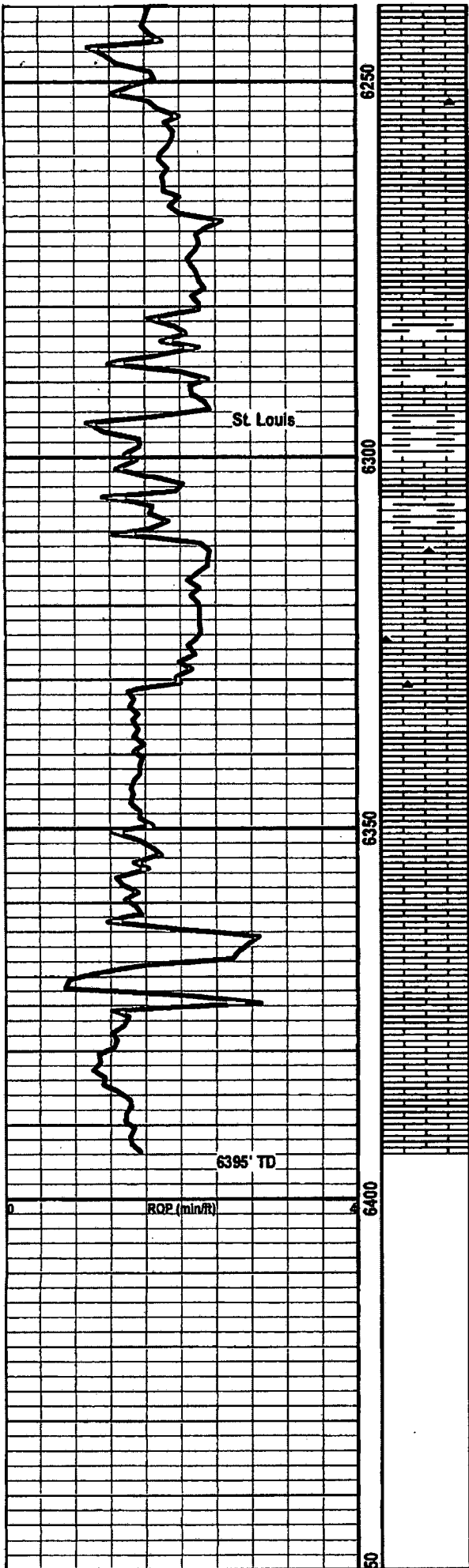
LIMESTONE: Brn crpxln hard dense sandy no show interbed with SHALE: As above dark gray brown black occasional gygn violet varicolored

LIMESTONE: Mot brown to gray buff tan micr fine crystalline dense sandy argillaceous to marly fossils tight occ very pale blue and dark brown hydrocarbon fluorescence and good cut weak show with SHALE: as above

LIMESTONE: Mot brown to gray buff tan micr fine crystalline dense sandy argillaceous to marly fossils tight occ mottled oil stain with very dull hydrocarbon fluorescence and good cut weak show with varicolored SHALE: As above CHERT

LIMESTONE: Mot brown to gray buff tan micr fine crystalline dense sandy argillaceous to marly fossils tight occ mottled oil stain with very dull hydrocarbon fluorescence and good cut weak show occasional interbed with SHALE: as above



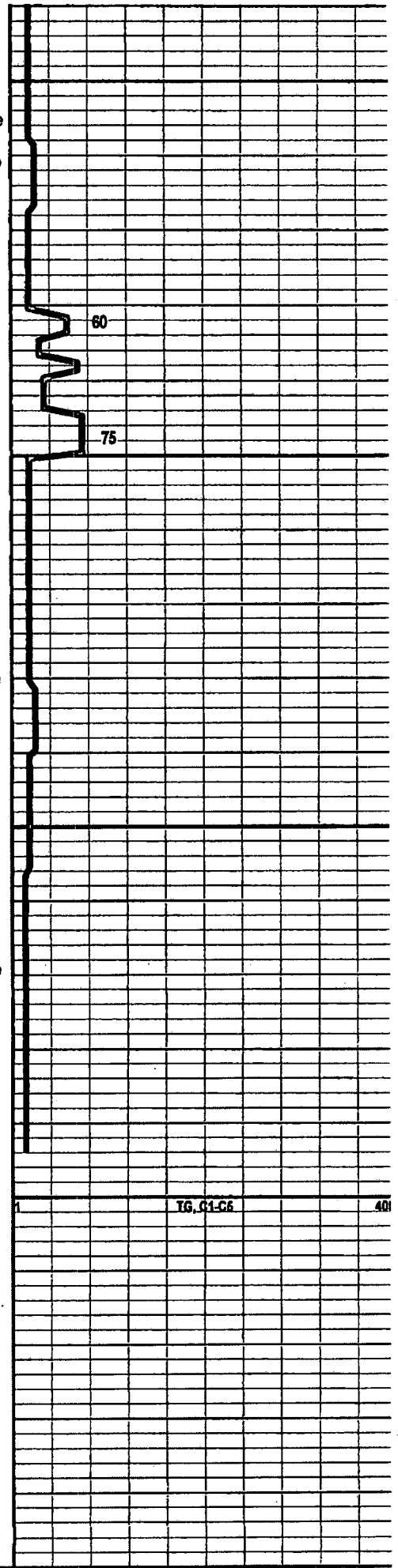


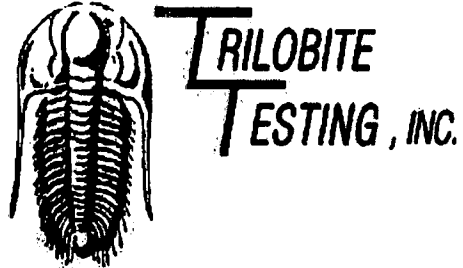
LIMESTONE: Med to light brown buff hard dense clean to argillaceous very sandy with fine well sorted grains fossils in part poor vis porosity no fluorescence no stain or cut

SHALE: Dark gray black gy to gygn firm fissile wxy carbonaceous interbedded with LS: Brown buff microcrystalline microsucrosic brittle clen very sandy and fossiliferous no show

LIMESTONE: Light brown buff tan finely crystalline microsucrosic in part fossiliferous sandy clean poor visible porosity no show trace
 CHERT: Gray brown translucent hard crystalline

LIMESTONE: Light brown buff tan finely crystalline microsucrosic in part fossiliferous sandy clean poor visible porosity no show trace
 CHERT: Gray brown translucent hard crystalline





DRILL STEM TEST REPORT

Prepared For: **O'Brien Energy**

18 Congress St STE 207
Portsmouth, NH 03601

ATTN: Roger Pearson

4-34s-29w Meade,KS

Larrabee Ext 3-4

Start Date: 2011.04.23 @ 03:40:00

End Date: 2011.04.23 @ 15:28:45

Job Ticket #: 042433 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

O'Brien Energy

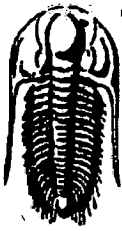
Larrabee Ext 3-4

4-34s-29w Meade,KS

DST # 1

Chester

2011.04.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

O'Brien Energy
18 Congress St STE 207
Portsmouth, NH 03601
ATTN: Roger Pearson

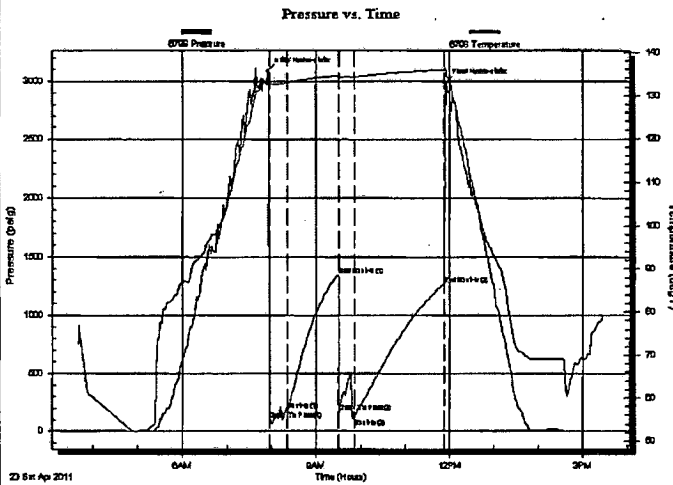
Larrabee Ext 3-4
4-34s-29w Meade, KS
Job Ticket: 042433 DST#: 1
Test Start: 2011.04.23 @ 03:40:00

GENERAL INFORMATION:

Formation: **Chester**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Straddle**
 Time Tool Opened: **07:57:30** Tester: **Leal Cason**
 Time Test Ended: **15:28:45** Unit No: **45**
 Interval: **6136.00 ft (KB) To 6195.00 ft (KB) (TVD)** Reference Elevations: **2576.00 ft (KB)**
 Total Depth: **6396.00 ft (KB) (TVD)** **2564.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **12.00 ft**

Serial #: **6798** Outside
 Press@RunDepth: **107.12 psig @ 6137.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.04.23** End Date: **2011.04.23** Last Calib.: **2011.04.23**
 Start Time: **03:40:01** End Time: **15:28:45** Time On Btm: **2011.04.23 @ 07:55:00**
 Time Off Btm: **2011.04.23 @ 11:55:30**

TEST COMMENT: IF: Fair Blow, BOB in 12 minutes, Died back to 6 inches
 IS: Bled Off, No Blow back
 FF: Weak Blow, 3 inches
 FSI: Bled Off, No Blow back



PRESSURE SUMMARY

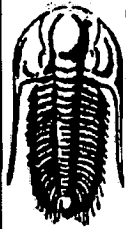
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3085.15	133.07	Initial Hydro-static
3	101.42	132.83	Open To Flow (1)
27	178.35	132.95	Shut-In(1)
95	1347.84	134.54	End Shut-In(1)
96	166.77	134.18	Open To Flow (2)
116	107.12	134.29	Shut-In(2)
238	1265.58	135.92	End Shut-In(2)
241	2988.45	134.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	428 Feet GIP	0.00
130.00	GCM 10%G 90%M	0.64

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

O'Brien Energy
18 Congress St STE 207
Portsmouth, NH 03601
ATTN: Roger Pearson

Larrabee Ext 3-4
4-34s-29w Meade, KS
Job Ticket: 042433 **DST#: 1**
Test Start: 2011.04.23 @ 03:40:00

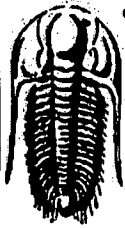
Tool Information

Drill Pipe:	Length: 5738.00 ft	Diameter: 3.80 inches	Volume: 80.49 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 372.00 ft	Diameter: 2.25 inches	Volume: 1.83 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 82.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 98000.00 lb
Depth to Top Packer:	6136.00 ft			Final 99000.00 lb
Depth to Bottom Packer:	6195.00 ft			
Interval between Packers:	59.00 ft			
Tool Length:	293.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:
Top Packer Is A Shale Packer Straddle packer failed

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			6111.00	
Sampler	3.00			6114.00	
Hydraulic tool	5.00			6119.00	
Jars	5.00			6124.00	
Safety Joint	2.00			6126.00	
Packer	5.00			6131.00	30.00 Bottom Of Top Packer
Packer	5.00			6136.00	
Stubb	1.00			6137.00	
Recorder	0.00	8367	Inside	6137.00	
Recorder	0.00	6798	Outside	6137.00	
Perforations	7.00			6144.00	
Change Over Sub	1.00			6145.00	
Drill Pipe	31.00			6176.00	
Change Over Sub	1.00			6177.00	
Perforations	17.00			6194.00	
Blank Off Sub	1.00			6195.00	59.00 Tool Interval
Packer	3.00			6198.00	
Change Over Sub	1.00			6199.00	
Recorder	0.00	8649	Below	6199.00	
Drill Pipe	187.00			6386.00	
Change Over Sub	1.00			6387.00	
Perforations	9.00			6396.00	
Bullnose	3.00			6399.00	204.00 Bottom Packers & Anchor
Total Tool Length:	293.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

O'Brien Energy
18 Congress St STE 207
Portsmouth, NH 03601

Larrabee Ext 3-4
4-34s-29w Meade, KS
Job Ticket: 042433 DST#: 1
Test Start: 2011.04.23 @ 03:40:00

ATTN: Roger Pearson

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

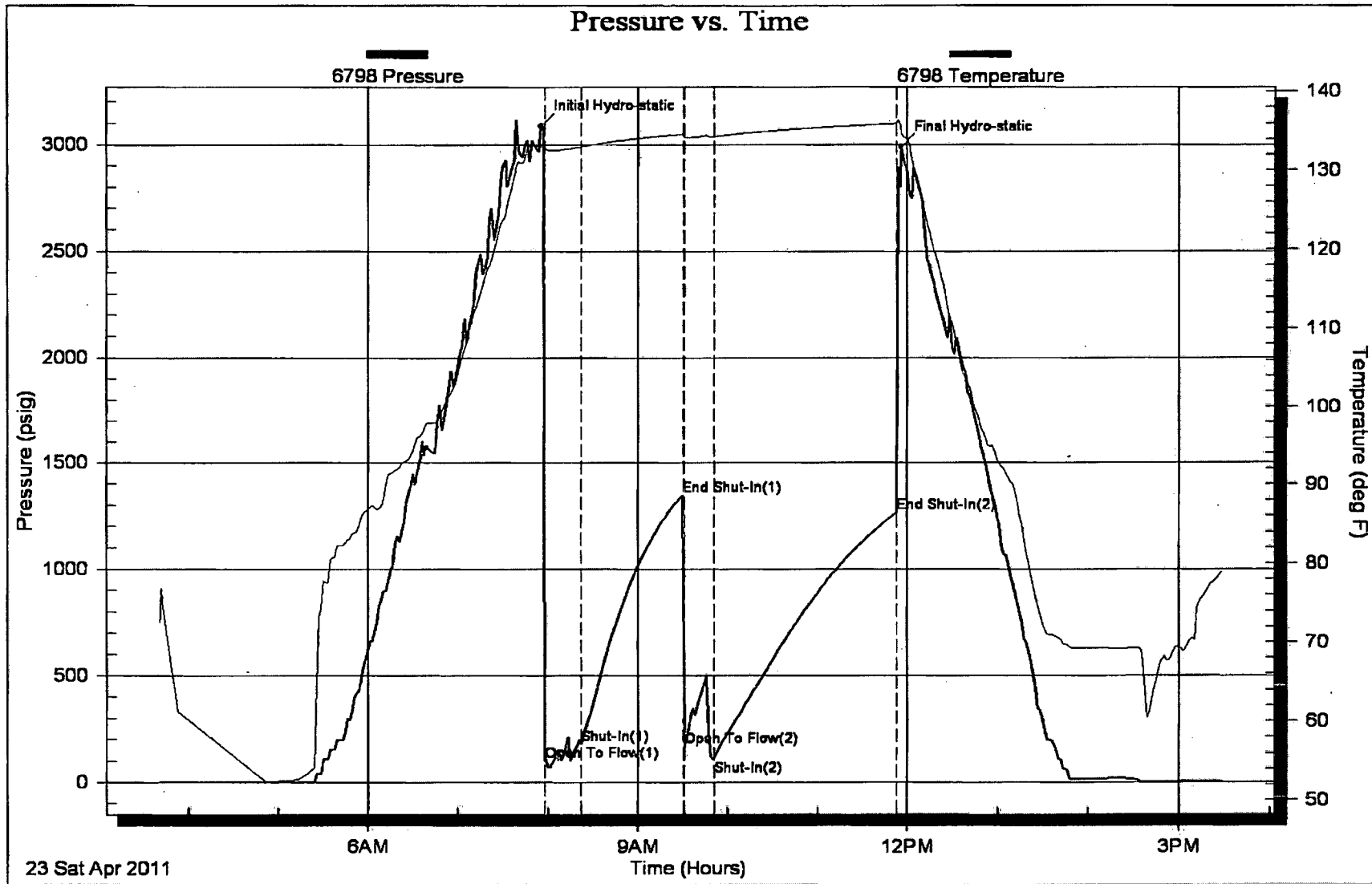
Length ft	Description	Volume bbl
0.00	428 Feet GIP	0.000
130.00	GCM 10%G 90%M	0.639

Total Length: 130.00 ft Total Volume: 0.639 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler Data: 2000mL GCM @ 500 PSI
Mud Was 20%G 80%M



23 Sat Apr 2011

