



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1241801
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
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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: _____



1241801

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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 <i>(Explain)</i> _____
---	--

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: _____ _____
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Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Vail 8-30
Doc ID	1241801

Tops

Name	Top	Datum
Heebner	4481'	-1802'
Toronto	4508'	-1829'
Lansing	4596'	-1917'
Marmaton	5278'	-2599'
Cherokee	5429'	-2750'
Atoka	5718'	-3039'
Morrow	5780'	-3101'
Mississippi Chester	5910'	-3231'
Ste. Genevieve	6164'	-3485'
St. Louis	6265'	-3586'



Cement Report

Customer <i>O'Brien Energy</i>	Lease No. <i>Vall</i>	Date <i>10-8-14</i>
Lease <i>Vall</i>	Well # <i>8-30</i>	Service Receipt <i>1717-04848</i>
Casing <i>8 5/8"</i>	Depth <i>1497'</i>	County <i>Monroe</i>
Job Type <i>8 5/8" Surface</i>	Formation	State <i>KS</i>
		Legal Description <i>30-33-29</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>8 5/8"</i>	Tubing Size	Shots/Ft		Lead <i>325 sks</i>
Depth <i>1497'</i>	Depth	From	To	<i>'A low' Blend 11.4ppg</i>
Volume <i>95.2 BBLs</i>	Volume	From	To	<i>3% CaCl₂</i>
Max Press	Max Press	From	To	<i>1/4# Poly Flake</i>
Well Connection	Annulus Vol.	From	To	<i>.2% WCA-1</i>
Plug Depth <i>1455'</i>	Packer Depth	From	To	Tail in <i>150 sks</i>
				<i>Premium Plus Cement</i>
				<i>2% CaCl₂</i>
				<i>1/4# Poly Flake 14.8ppg</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1500</i>					<i>Called Unit</i>
<i>1930</i>					<i>On Location</i>
<i>1945</i>					<i>Safety meeting</i>
					<i>Setup - JSA - Discussed</i>
<i>2215</i>					<i>Pressure test lines</i>
<i>2240</i>	<i>100</i>				<i>Mix & Pump Lead Cement</i>
			<i>170.8</i>	<i>6</i>	<i>325 sks 'A low' Blend 11.4ppg</i>
					<i>170.8 BBLs slurry 140 BBLs mix water</i>
<i>2258</i>					<i>Mix & Pump Tail Cement</i>
			<i>35.8</i>	<i>5</i>	<i>150 sks Premium Plus Cement 14.8ppg</i>
					<i>35.8 BBLs slurry 22.6 BBLs mix water</i>
					<i>Finished mixing cement</i>
<i>2305</i>			<i>92.54</i>		<i>Drop Plug</i>
					<i>Wash up on Plug - Displace</i>
					<i>1455 X .0636 = 92.54 BBLs</i>
					<i>10-09-14</i>
<i>0015</i>					<i>Land Plug 45 BBLs cement to pit</i>
<i>0018</i>					<i>Released</i>
<i>0018</i>					<i>Plot Held</i>
<i>0030</i>					<i>Knock up</i>
					<i>Job Completed</i>
					<i>Thanks you</i>
Service Units	<i>21755</i>	<i>70899-19570</i>	<i>27808-19893</i>	<i>14354-19598</i>	
Driver Names	<i>Roger</i>	<i>SAM</i>	<i>Hector</i>	<i>JAVIER</i>	

Roger Pearson
Customer Representative

Jonny Bennett
Station Manager

Roger Brown
Cementor



BASICSM
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer <i>O'Brien Energy</i>		Lease No.		Date <i>10/17/14</i>	
Lease <i>Vail</i>		Well # <i>8-30</i>		Service Receipt <i>1717-06148</i>	
Casing <i>4 1/2</i>	Depth <i>6382</i>	County <i>Meade</i>		State <i>KS</i>	
Job Type <i>Production</i>		Formation		Legal Description <i>30/33/29</i>	
Pipe Data			Perforating Data		Cement Data
Casing size <i>4 1/2</i>	Tubing Size	Shots/Ft		Lead <i>180 skAAZ</i>	
Depth <i>6382</i>	Depth	From	To	<i>@ 141.8</i>	
Volume <i>100.8</i>	Volume	From	To	<i>1.51</i> <i>6.64</i>	
Max Press <i>2500psi</i>	Max Press	From	To	Tail in <i>50 sk Next</i>	
Well Connection <i>PC</i>	Annulus Vol.	From	To	<i>@ 15.6 Rat/Mouse</i>	
Plug Depth <i>6340</i>	Packer Depth	From	To	<i>1.88</i>	<i>5.27</i>
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>19:30</i>					<i>On location</i>
<i>19:38</i>					<i>Safety Mtg w/ BEE Emp.</i>
<i>19:45</i>					<i>Lig up / Prime up</i>
<i>21:00</i>					<i>Safety Mtg w/ Rig crew</i>
<i>21:25</i>					<i>Pressure test 2500</i>
<i>21:30</i>			<i>500 gal</i>		<i>Pump back mud flush</i>
<i>21:45</i>			<i>10.5 BBL</i>		<i>Pump Rat / Mouse</i>
<i>22:15</i>	<i>160</i>		<i>48 BBL</i>	<i>4</i>	<i>Pump Cement</i>
<i>22:45</i>					<i>Drop Plug Washup to Pit</i>
<i>22:55</i>			<i>100.8</i>		<i>Start Displacement</i>
<i>23:20</i>	<i>400</i>			<i>1 BPM</i>	<i>Cut Rate 2</i>
<i>23:30</i>	<i>900</i>				<i>Pressured up Landed</i>
	<i>1500</i>				<i>Pressured up on it</i>
<i>23:35</i>					<i>Released Back</i>
					<i>Float held</i>
					<i>Job Complete</i>
Service Units	<i>86573</i>	<i>38117/19919</i>	<i>14335/37547</i>		
Driver Names	<i>Tommy M.</i>	<i>Daniel B.</i>	<i>Javier O.</i>		

Roger Pearson
Customer Representative

Jerry Bennett
Station Manager

Taylor
Cementer

O'Brien Energy Resources, Inc.

Vail No. 8-30

Section 30, T33S, R29W

Meade County, Kansas

October, 2014

Well Summary

The O'Brien Energy Resources, Corporation, Vale No. 8-30 was drilled to a total depth of 6420' in the Mississippian St. Louis Formation. It is located 1655' to the North of the Vale No. 4-30 in the Singly Field. Formation tops ran high relative to this offset. The Heebner to the Chester ran 7' to 13' high. The Ste. Genevieve came in 2' high and the St. Louis, 2' low. Note all depths are sample picks as no logs were run due to hole conditions, 300' of surface casing parted and fell down hole.

An excellent hydrocarbon show was noted in the Morrow (5846'-5852') and consists of a Sandstone in 10% of the samples. Specked green, salt and pepper, light brown, translucent, hard to friable, very fine well sorted subround grains, siliceous cement, calcareous, clean, glauconitic, fair to good intergranular porosity, vuggy porosity, bright light orange hydrocarbon fluorescence and dissipates to a blue fluorescence when dried, good bleeding to streaming cut, gas bubbles when crushed, no stain or free oil. A 140 Unit gas kick was noted.

An additional show and gas increase occurred in the Lower Chester.

Production casing was run on the Vale No. 8-30 for Morrow Sandstone gas and or oil production.

A cased GR and porosity log will be run prior to perforating for depth corrections.

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: Vail No. 8-30, Singley Field

Location: 1320' FNL & 2305' FEL, Section 30, T33S, R29W, Meade County, Kansas – Southeast of Plains.

Elevation: Ground Level 2667', Kelly Bushing 2679'

Contractor: Duke Drilling Rig No. 10, Type: Double jackknife, triple stand, Toolpusher Alex Ordonez, Drillers: Mario Chavez, Miguel Molina, Chad Hallmark

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 10/8/14

Total Depth: 10/15/14, Driller 6420', Logger – no logs run, Mississippi St. Louis.

Casing Program: 35 joints of new 8 5/8", J55, 24Lbs/ft, set at 1479'. 4 1/2" production casing to TD.

Mud Program: Mud Co./Service Mud Inc., Engineer Justin Whiting, displaced 2600' with Chemical Gel/LCM.

Wellsite Consultant: Peter Debenham with mudlogging trailer, Call depth 3000', Box 350, Drake, CO 80515, 720/220-4860.

Samples: 30' to 4700', 20' to TD. Zones of interest saved.

Electric Logs: No logs were run due to hole conditions, 300' of surface casing parted and fell downhole. A cased GR and porosity log will be run.

Status: 4 1/2" production casing set to TD on 10/17/14.

WELL CHRONOLOGY

6 AM			
<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
10/7			Move to location and rig up rotary tools.
10/8	1500'	1500'	Rig up and dig ditches. Mix spud mud. Drill rat hole and mouse hole and spud in 12 1/4"(7 am). To 1500' and circulate. Drop survey(1/2 deg.) and run and cement 35 joints of new 8 5/8" 24 lbs/ft set at 1479'.
10/9	1857'	357'	Cement and wait on cement. 7 7/8" to 1857' with button bit and trip for bit no. 3, PDC. Repair rotary chain and service rig.
10/10	2814'	957'	Work on pump and clean suction. Displace mud system at 2594'.
10/11	4296'	1482'	Work on rotary chain. Clean suction. Premix in at 3650'.
10/12	4958'	662'	To 4845' and circulate and trip for Bit No. 4. To 4958'.
10/13	5307'	349'	To 4990' and trip out and wait on kelly hose and work on stand pipe and hose. To 5307'.
10/14	5995'	688'	Service rig and pump premix. Circulate for samples at 5844', 5856' and 5876'.
10/15	6420'TD	425'	Service rotary chain. To 6420'TD and circulate. Wiper trip 42 stands and circulate. Drop survey(1 Deg.) and trip out for logs.
10/16	TD		Rig up loggers and run in, hit bridge at 1111'(bottom of surface casing). Trip in with bit and hit bridge. Trip out and in open ended and bridged out. Wait on orders.
10/17	TD		Run in with and impression block and tag fish. 300' of surface casing fell downhole and remained straight. Run and cement production casing to TD. Rig down.

BIT RECORD

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	J2	PDC	12 1/4"	1500'	1500'	7 1/4
2	J2	But bit	7 7/8"	1857'	357'	1
3	J2	PDC	7 7/8"	4845'	2988'	42 3/4
4	J2	PDC	7 7/8"	6420'	1575'	44 3/4
Total Rotating Hours:						95 3/4
Average:						67 Ft/hr

DEVIATION RECORD - degree

1500' 1/2, 6420' 1

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>	
10/7	0'	Make Up Water						100		
10/8	807'	10.5	42	10	10	8.5	n/c	100	3	
10/10	2281'	9.4	29	2	2	7.0	n/c	56K	0	
10/11	3499'	9.15	43	10	13	8.0	19.6	5.8K	2	
10/12	4844'	9.45	46	14	16	9.0	11.6	4.8	2	
10/13	5014'	9.3	42	12	14	9.0	11.6	6.2K	2	
10/14	5645'	9.25	49	16	17	10.5	8.4	3.1K	2	
10/15	6278'	9.25	57	18	21	10.5	8.8	2.3K	2	
10/16	6420'	9.0	47	14	15	9.5	9.2	3.1K	5 ½	

SAMPLE PICK FORMATION TOPS- KB Elev. 2679'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Vale No. 4-30</u>	
			<u>DATUM</u>	<u>POSITION</u>
Surface Casing	1479'			
Heebner	4481'	-1802'	-1809'	+7'
Toronto	4508'	-1829'	-1841'	+12'
Lansing	4596'	-1917'	-1930'	+13'
Marmaton	5278'	-2599'	-2610'	+11'
Cherokee	5429'	-2750'	-2761'	+11'
Atoka	5718'	-3039'	-3052'	+13'
Morrow	5780'	-3101'	-3110'	+9'
"A,B?" SS	5846'-5852'	-3167'		
Mississippi Chester	5910'	-3231'	-3246'	+15'
Ste. Genevieve	6164'	-3485'	-3487'	+2'
St. Louis	6265'	-3586'	-3487'	-2'
TD	6420'			

*Vale No. 4-30, 2305' FSL & 2305' FEL, Section 30 – 1655' to the South, K.B. Elevation 2684'.

Petrolific Consulting Services

Peter Debenham
P.O. Box 350
Drake, Colorado 80515

Wellsite Geology
720/220-4860
petrolific@earthlink.net

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

Well Name: O'Brien Energy, Vale No. 8-30, Singley Field
Location: 2305'FEL & 1320'FNL, Section 30, 33S, R29W, Meade Co., KS
Licence Number: API: 15-119-21377 Region: Hougoton
Spud Date: 10/8/14 Drilling Completed: 10/15/14
Surface Coordinates: 2305'FEL & 1320'FNL, Section 30, 33S, R29W, Meade Co., KS

Bottom Hole Coordinates: 2305'FEL & 1320'FNL, Section 30, 33S, R29W, Meade Co., KS
Ground Elevation (ft): 2667' K.B. Elevation (ft): 2679'
Logged Interval (ft): 3800' To: TD Total Depth (ft): 6420'
Formation: Lansing, Morrow, Chester, Ste Genevieve, St. Louis
Type of Drilling Fluid: Chemical Gel/LSND/LCM, displace 2600'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: O'Brien Energy Resources, Corp.
Address: 18 Congress St., Suite 207
Portsmouth, NH 03801
President/Owner John Forma, Geologist Paul Wiemann

GEOLOGIST

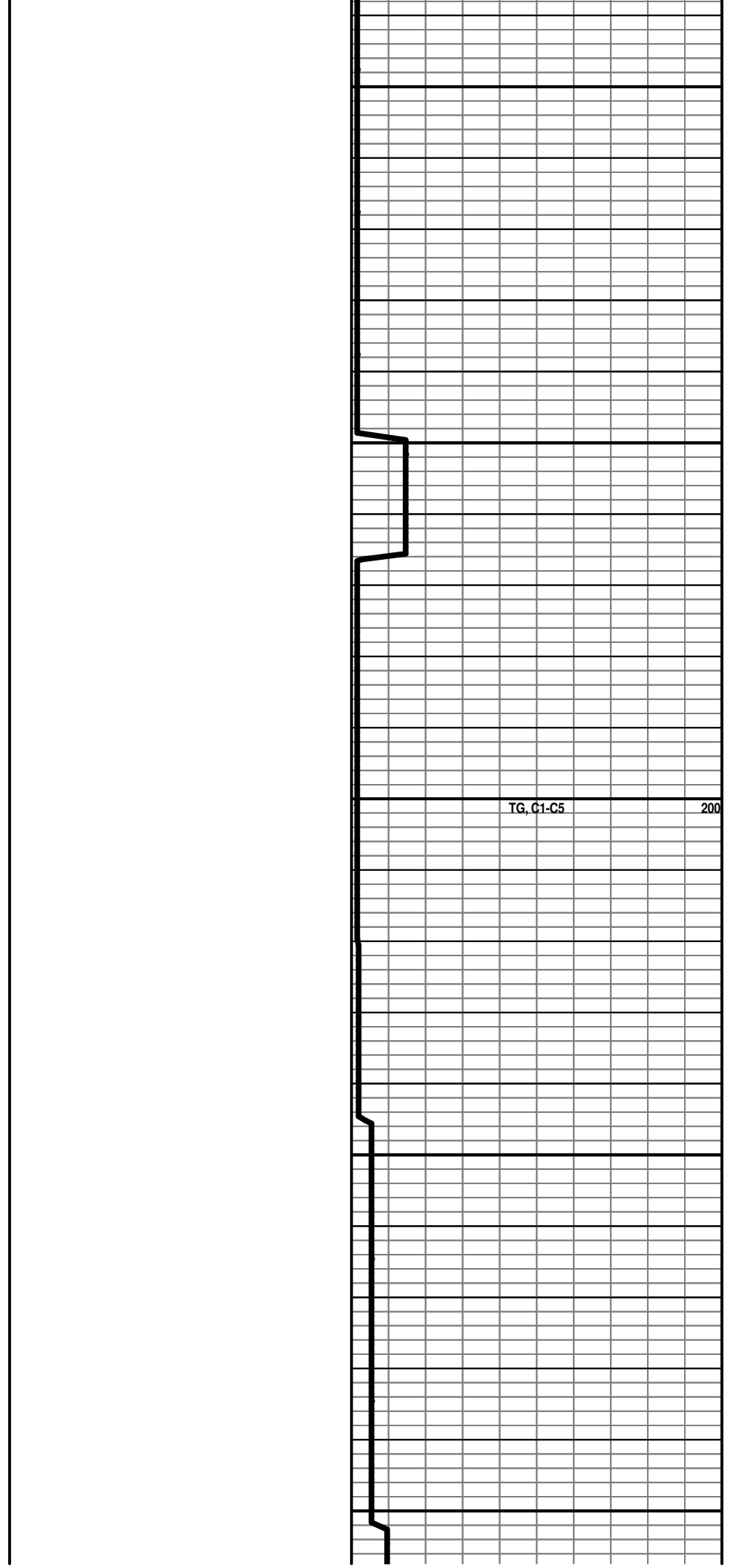
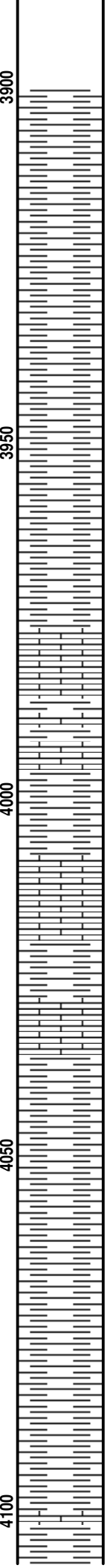
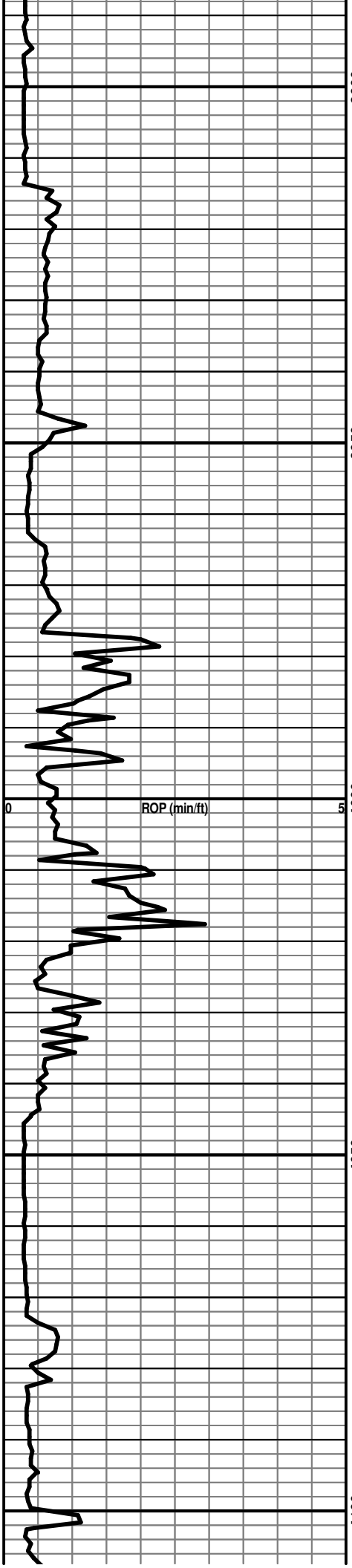
Name: Wellsite: Peter Debenham
Company: Petrolific Consulting Services
Address: P.O. Box 350
Drake, CO 80515
720/220-4860, Petrolific@gmail.com

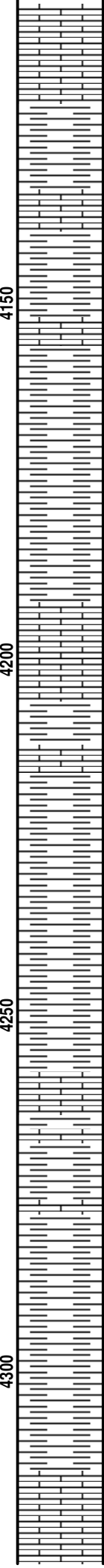
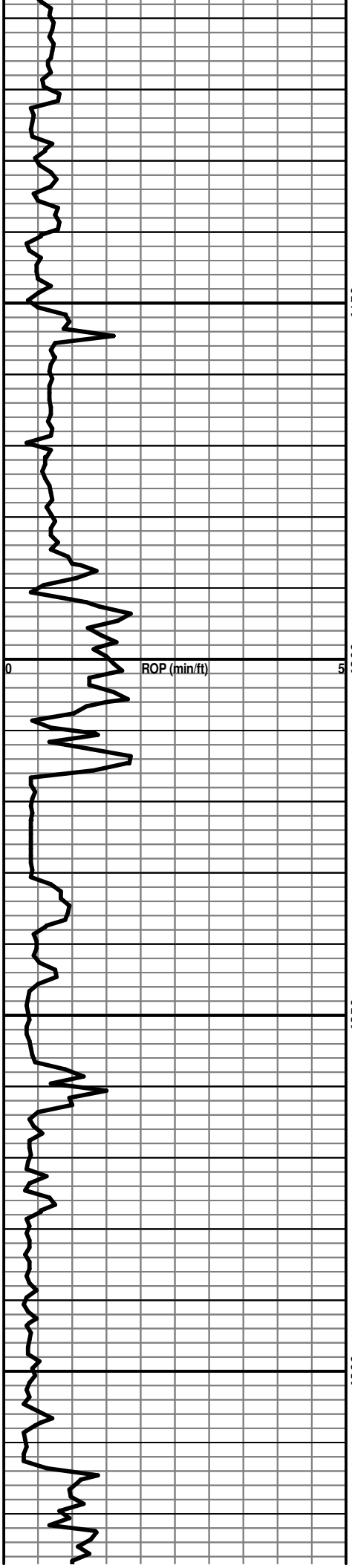
Comments

Engineer Roger Pearson, Duke Drilling Rig No. 10, Type: Double jackknife, triple stand, Toolpusher Alek Ordonez, Drillers: Mario Chavez, Miguel Molina, Chad Hallmark, 35 joints of new 8 5/8", 24 Lbs/Ft, J-55 set at 1479', no logs run, Mud Co./Service Mud Inc., Engineer Justin Whiting, displaced 2600' with Chemical Gel/LCM, Production casing to TD.

ROCK TYPES

	Anhy		Clyst		Gyp		Mrlst		Shgy
	Bent		Coal		Igne		Salt		Sltst
	Brec		Congl		Lmst		Shale		Ss
	Cht		Dol		Meta		Shcol		Till

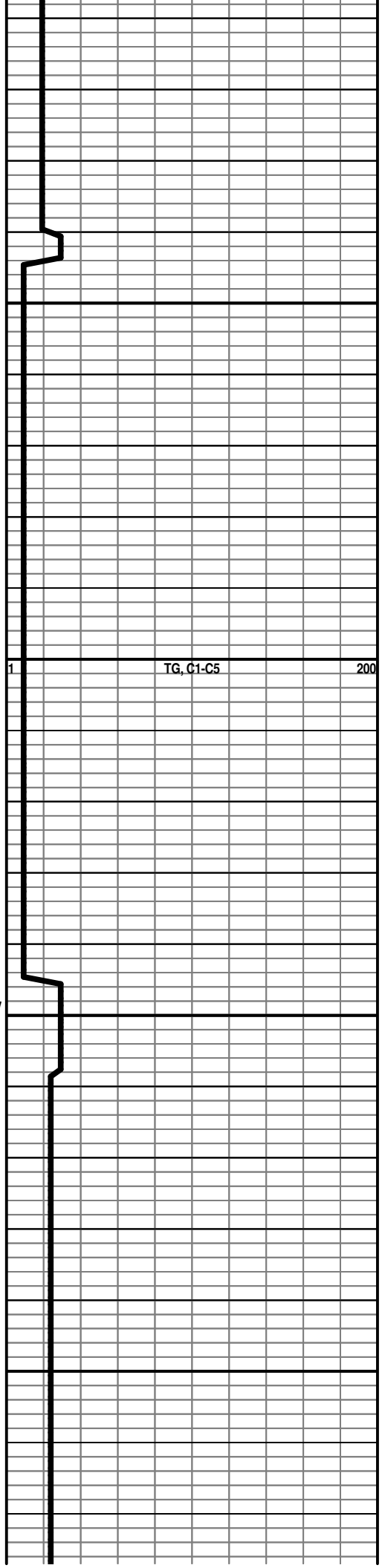


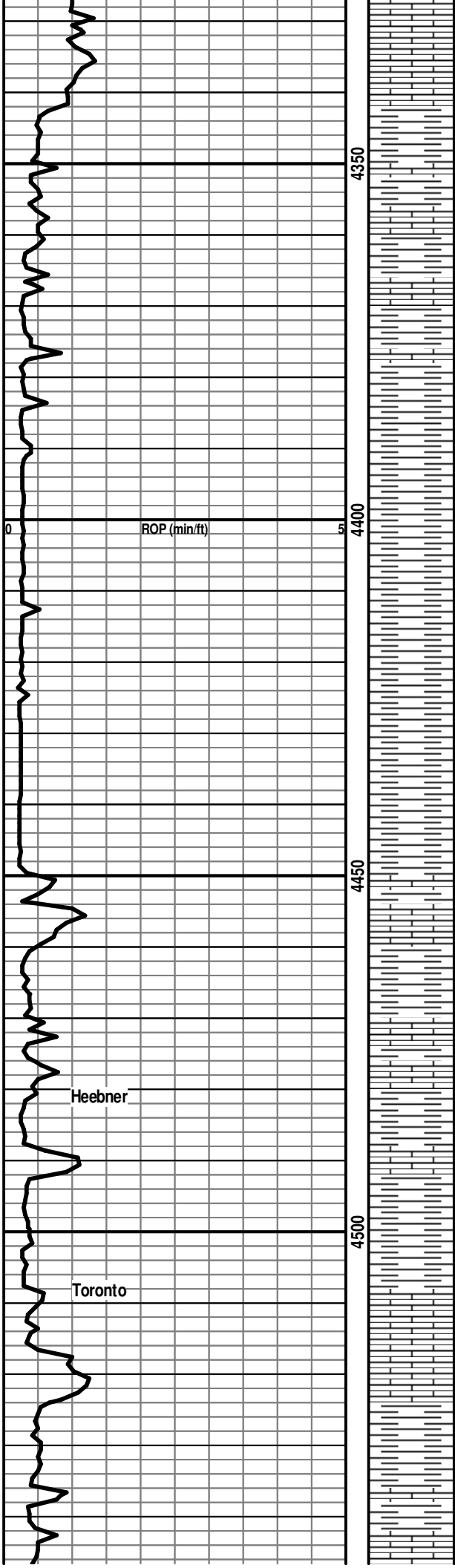


LIMESTONE: Med to light brown tan biomic
micxn micsuc in part clean fossils trace moldic
and intxn porosity no fluorescence no stain or
cut with LIMESTONE: Med to dark mottled
brown gray fine crystalline hard dense
argillaceous to marly in part fossils
carbonaceous tight no show interbed with
SHALE: Blk dark brown to gray firm fossils in
part carbonaceous calcareous silty

SHALE: Dk brown gray black firm sbfis to blocky
waxy carbonaceous calcareous interbed with
LIMESTONE: Med to dark mottled brown gray
biomicr fine crystalline hard dense argillaceous
tight no show

LIMESTONE: Med to light brown tan biomicr
micxn micsuc in part clean fossils trace moldic
and intxn porosity no fluorescence no stain or
cut with LIMESTONE: Med to dark mottled
brown gray fine crystalline hard dense
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carbonaceous tight no show interbed with
 SHALE: Blk dark brown to gray firm fossils in
 part carbonaceous calcareous silty

SHALE: Dk brown gray black firm sbfis to blocky
 waxy carbonaceous calcareous interbed with
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 tight no show

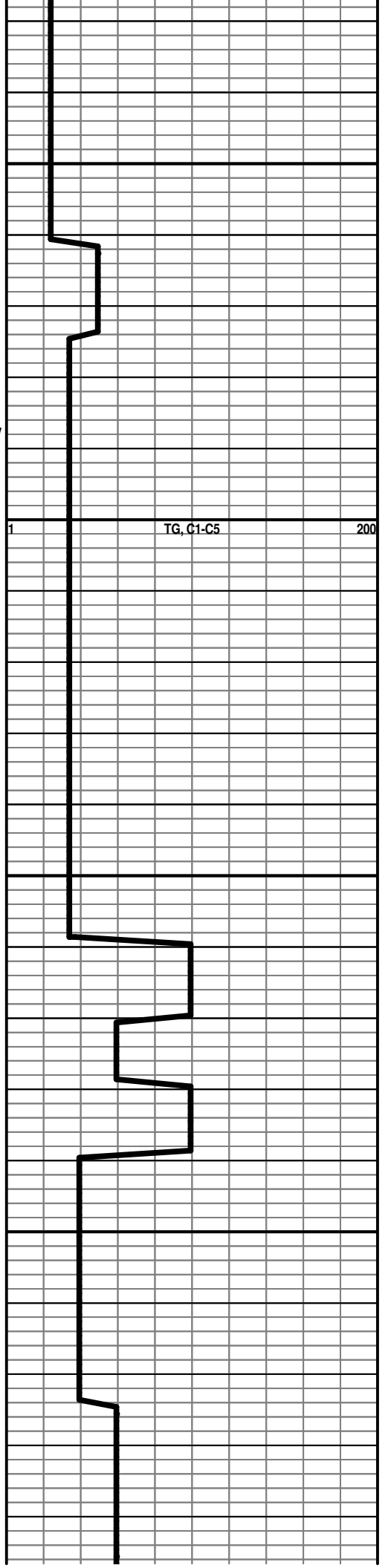
LIMESTONE: Med to light brown tan biomcr
 micxn micsuc in part clean fossils trace moldic
 and intxn porosity no fluorescence no stain or
 cut with LIMESTONE: Med to dark mottled
 brown gray fine crystalline hard dense
 argillaceous to marly in part fossils
 carbonaceous tight no show interbed with
 SHALE: Blk dark brown to gray firm fossils in
 part carbonaceous calcareous silty

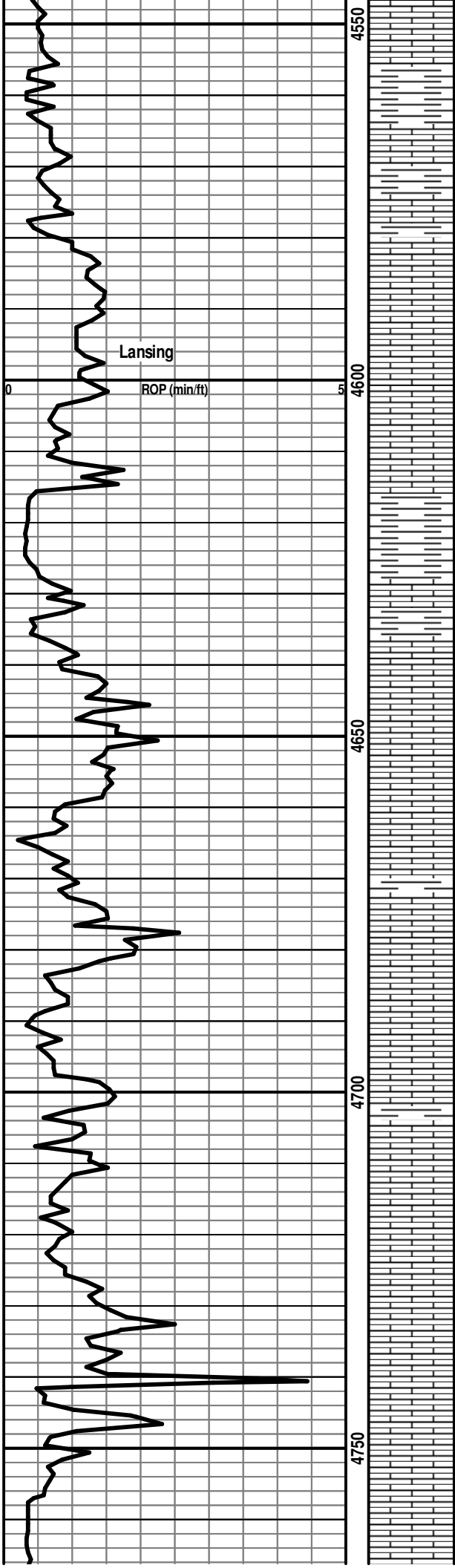
SHALE: Blk very dark brown firm sbfis waxy
 carbonaceous silty in part

LIMESTONE: Dk brown mottled biomcr fine
 crystalline hard dense argillaceous fossils poor
 vis porosity no fluorescence no stain or cut
 interbed with SHALE: Blk dark brown to gray
 firm sbfis to blocky carbonaceous calcareous
 silty

LIMESTONE: Med to light brown tan biomcr
 micxn micsuc in part clean fossils trace moldic
 and intxn porosity no fluorescence no stain or
 cut with LIMESTONE: Med to dark mottled
 brown gray fine crystalline hard dense
 argillaceous to marly in part fossils
 carbonaceous tight no show

SHALE: Blk dark brown to gray firm fossils in
 part carbonaceous calcareous silty





LIMESTONE: Lt to medium brown tan micxn micsuc in part clean to argillaceous fossils carbonaceous inclis trace intxn porosity no show with LIMESTONE: Med to dark mottled brown occasional black fine crystalline dense fossils argillaceous to marly in part carbonaceous tight no show

LIMESTONE: Med to dark mottled brown occasional black fine crystalline dense fossils argillaceous to marly in part carbonaceous tight no show interbed with SHALE: Gy brown firm blocky fossils carbonaceous occasional interbed with LIMESTONE: as above no show

SHALE: Gy brown firm blocky fossils carbonaceous occasional interbed with LIMESTONE: as above no show

LIMESTONE: Mot brown light brown gray biomicr fine crystalline hard dense fossils clean to argillaceous occasional trace intxn and lansingporosity no show

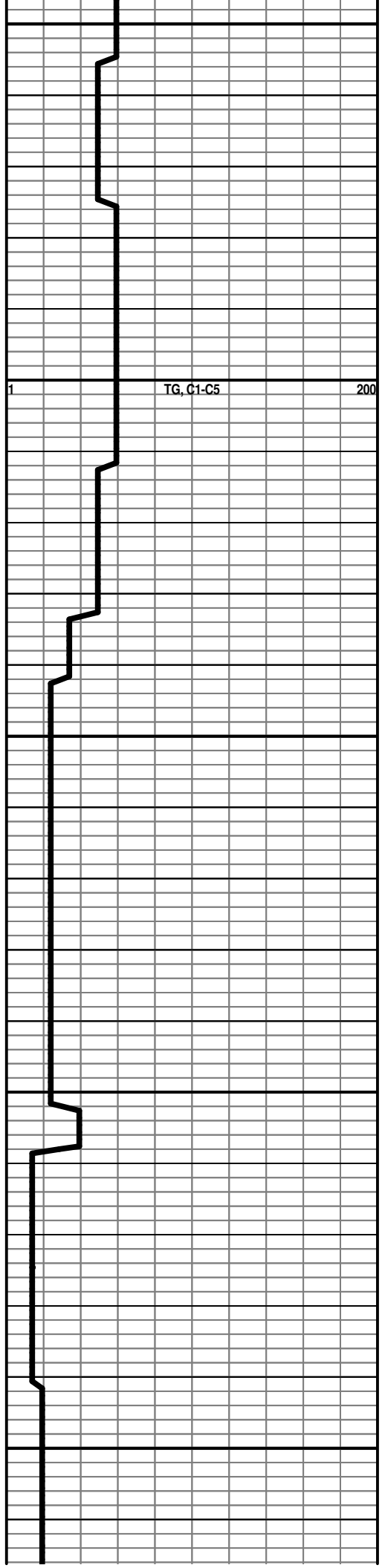
LIMESTONE: Med to light mottled brown buff micxn micsuc in part sbchky clean fossils trace intxn porosity light mottled blue hydrocarbon fluorescence(1% sample) slow strmg cut no stain weak show

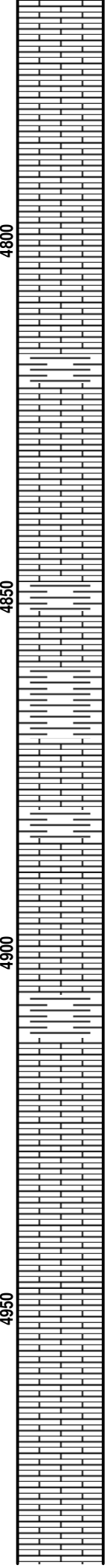
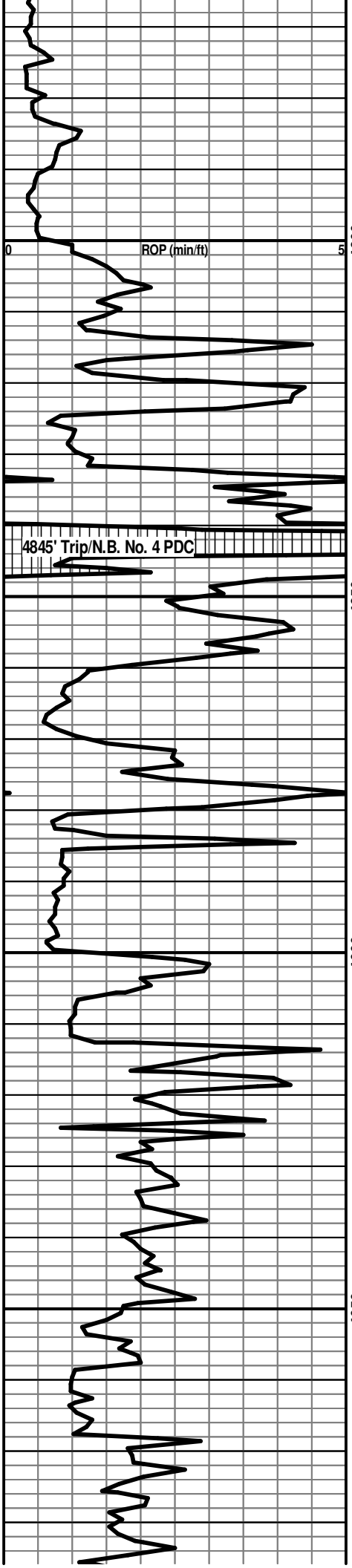
LIMESTONE: Lt mottled brown gray biomicr fine crystalline clean very fossils occasional moldic and intxn porosity predominant hard and tight no show occasional interbed with SHALE: Dk brown black blocky firm silty carbonaceous

LIMESTONE: Lt brown fine crystalline brittle clean very oolites well/exc moldic porosity no show

LIMESTONE: Med brown crpxln hard dense clean silica in part tight no show with LIMESTONE: Lt brown fine crystalline brittle clean very oolites well/exc oomoldic porosity no show

LIMESTONE: Lt to medium brown micr fine





LIMESTONE: Lt to medium brown congl fine crystalline brittle clean very oolitic with exc oomoldic porosity no fluorescence no stain or cut

LIMESTONE: Mot brown gray crpxln hard dense silica fossils tight no show

SHALE: Dk brown hard blocky to sbfis waxy to silty carbonaceous with LIMESTONE: Brn gray crpxln hard dense tight no show

LIMESTONE: Med brown micxln micsuc brittle clean exc oomoldic porosity trace intxln porosity no show with LIMESTONE: Lt brown buff micxln micsuc in part brittle clean sbchky fossils hard and silica in part no show

LIMESTONE: Mot brown crpxln hard dense silica fossils clean to argillaceous tight no show

SHALE: Blk very dark brown firm sbfis to blocky carbonaceous silty to waxy calcareous interbed with LIMESTONE: Lt brown buff micxln micsuc in part brittle clean sbchky fossils trace intxln porosity no fluorescence no stain or cut

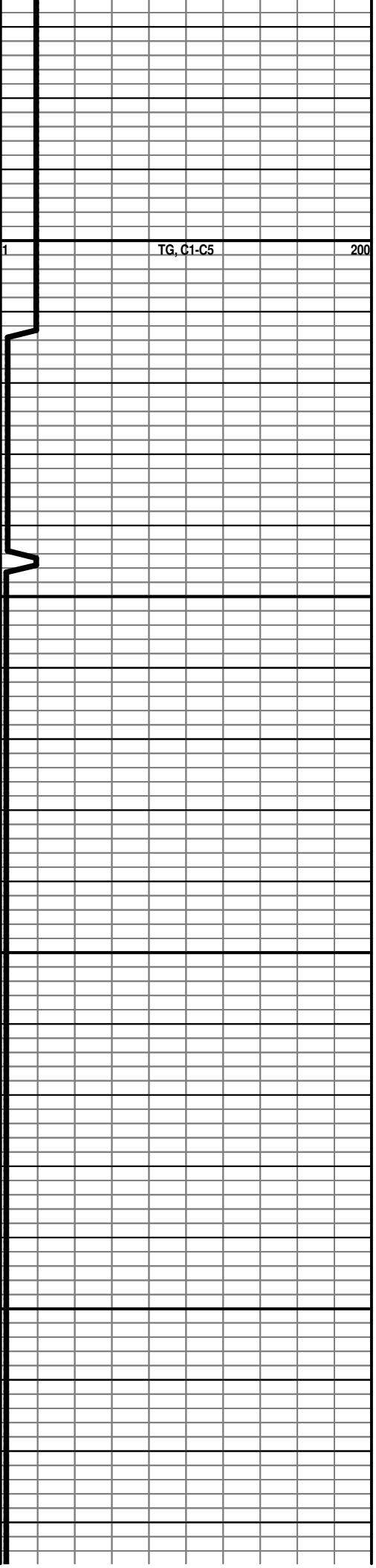
LIMESTONE: Mot brown very brittle clean very oolites well/exc oomoldic porosity mottled orange mineral fluorescence no stain or cut no show

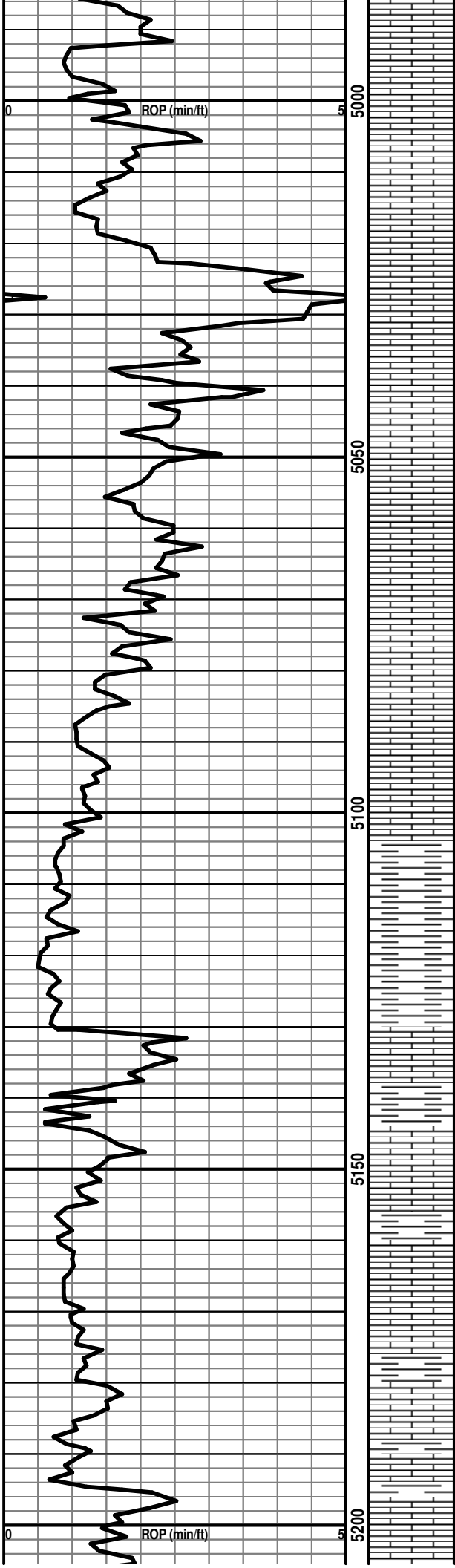
SHALE: Dk brown gray hard blocky silty carbonaceous with LIMESTONE: Mot brown to gray fine crystalline hard dense silica in part poor vis porosity no show

LIMESTONE: Lt to medium mottled brown to gray micxln micsuc in part predominant hard and silica tight/ occasional trace moldic and intxln porosity no fluorescence no stain or cut

LIMESTONE: Lt brown gray buff micxln micsuc very brittle clean chalky in part trace intxln porosity occasional moldic porosity no show

SHALE: Blk dark brown firm sbfis carbonaceous with LIMESTONE: Lt brown gray buff micxln micsuc very brittle clean chalky in part trace intxln porosity occasional moldic porosity no show





LIMESTONE: Med to dark mottled brown light brown buff micro/crpxln micsuc in part clean to marly silica in part predominant hard and tight occasional micsuc well/intxln porosity no fluorescence no stain or cut

LIMESTONE: Med to dark mottled brown micr crpxln hard dense silica argillaceous to marly fossils tight no show

SHALE: Dk brown black dark gray hard blocky carbonaceous calcareous fossils silica in part interbed with LIMESTONE: Pred as above micsuc in part well/trace intercrystalline porosity no fluorescence no stain or cut

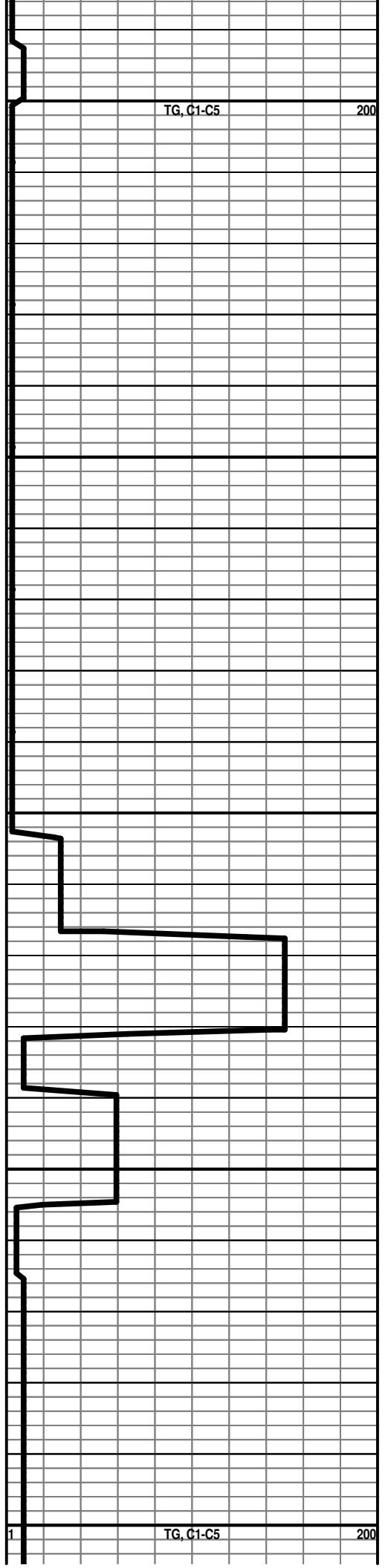
LIMESTONE: Med mottled brown oomicr fine crystalline brittle clean very oolites well/exc oomoldic porosity no fluorescence no stain or cut mottled orange mineral fluorescence

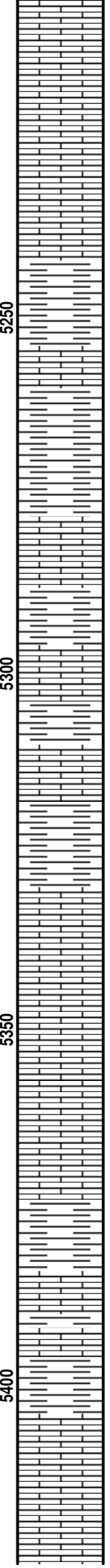
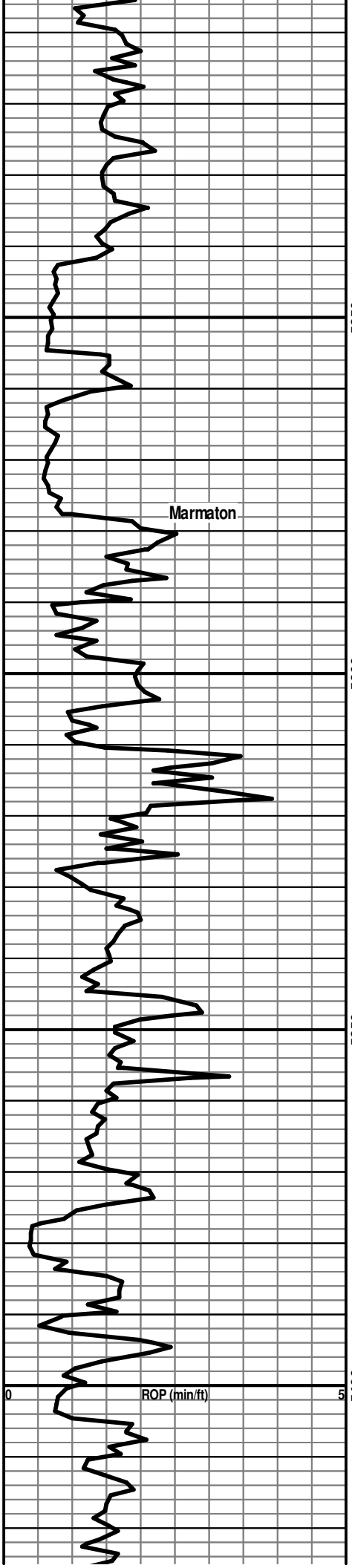
LIMESTONE: Dk mottled gray to brown occasional black crpxln hard dense silica argillaceous to marly in part tight no show

SHALE: Blk very dark brown hard sbfis to blocky waxy carbonaceous silty

LIMESTONE: Dk mottled brown gray micr crpxln hard dense argillaceous to marly fossils carbonaceous tight no show with SHALE: Blk dark brown hard sbfis carbonaceous

LIMESTONE: Med to dark mottled brown fine crystalline brittle clean very oolites exc oomoldic porosity trace intxln porosity mottled orange mineral fluorescence tr pale mot bl hydrc flor fnt cut wk show





LIMESTONE: Med mottled brown crpxln hard dense brittle in part argillaceous fossils occasional exc oomoldic porosity no show

SHALE: Blk dark brown firm fissile carbonaceous silty interbed with LIMESTONE: Pred as above occasional exc oomoldic porosity no fluorescence no stain or cut

LIMESTONE: Mot brown to gray fine crystalline hard dense silica in part fossils oolites clean tight no show

SHALE: Blk dark gray firm sbfis to blocky carbonaceous calcareous silty to sndy in part interbed with LIMESTONE: Lt brown buff white fine crystalline sbchky clean to argillaceous soft brittle no show

LAS: Lt brown white tan micxn chalky in part clean to argillaceous soft brittle poor vis porosity no fluorescence no stain or cut

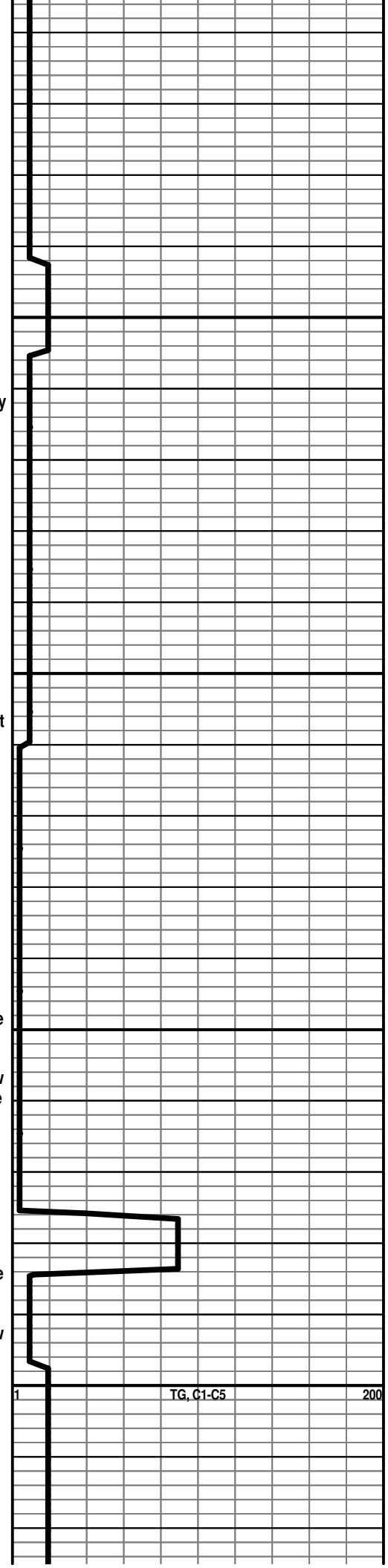
SHALE with interbed LIMESTONE: as above no show

LIMESTONE: Lt brown buff white fine crystalline chalky in part soft brittle clean no show with LIMESTONE: Med mottled brown oomic micxn very oolites well/exc oomoldic porosity no show occasional interbed with SHALE: Blk firm fissile

SHALE: Blk dark brown firm sbfis to blocky waxy to silty carbonaceous

LIMESTONE: Lt brown buff white fine crystalline chalky in part soft brittle clean no show with LIMESTONE: Med mottled brown oomic micxn very oolites well/exc oomoldic porosity no show

LIMESTONE: Brn micxn micsuc in part clean fossils sbchky tight no show with SHALE: Dk brown to gray black firm sbfis to blocky carbonaceous



Cherokee

SHALE: Blk firm fissile carbonaceous

LIMESTONE: Med to dark brown gray crpxln hard dense silica fossils clean to argillaceous tight no show

SHALE: Blk firm fissile carbonaceous

LIMESTONE: Med to dark brown occasional black crpxln hard dense silica argillaceous fossils poor vis porosity no show

SHALE: Blk dark gray to brown sbfis firm carbonaceous silty

LIMESTONE: Med to dark brown to gray biomicro crpxln hard dense fossils argillaceous to marly carbonaceous tight no show interbed with SHALE: Blk firm fissile carbonaceous

LIMESTONE: Med to dark brown to gray biomicro crpxln hard dense fossils argillaceous to marly carbonaceous tight no show interbed with SHALE: Blk firm fissile carbonaceous

LIMESTONE: Med to dark mottled brown gray occasional black micro crpxln hard dense argillaceous to marly fossils carbonaceous tight interbed with SHALE: Blk firm fissile carbonaceous

SHALE: Blk dark brown firm sbfis to blocky carbonaceous calcareous

LIMESTONE: Dk brown fine crystalline hard dense fossils argillaceous to marly tight no show with SHALE: as above

SHALE: Blk dark brown to gray hard blocky to sbfis carbonaceous calcareous silty

LIMESTONE: Mot brown to gray buff micxln firm dense to trace intxln porosity sbchky in part clean to argillaceous no fluorescence no stain or cut

5450

5500

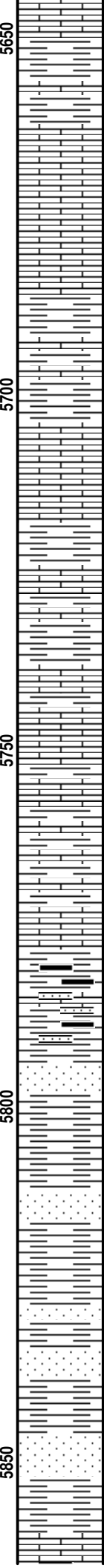
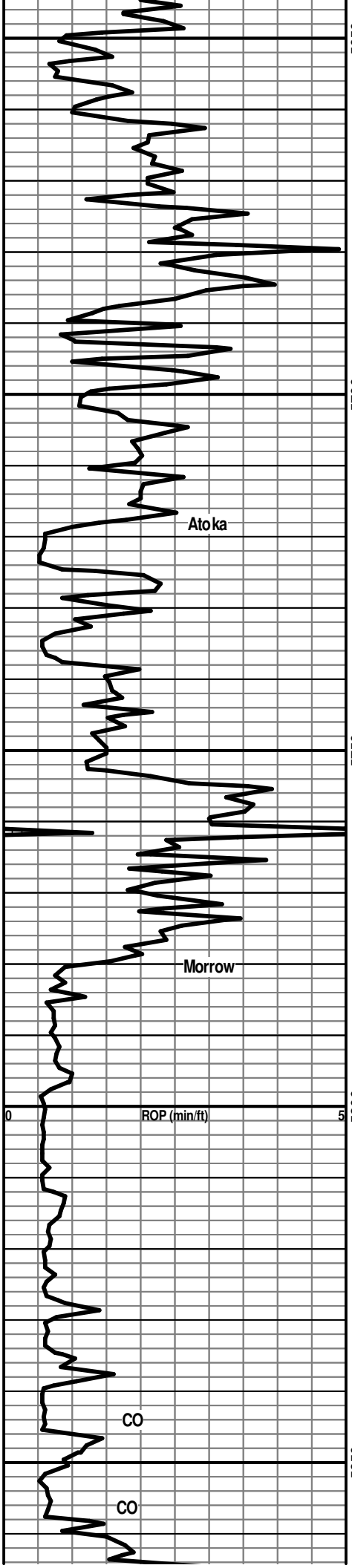
5550

5600

RC (min/ft)

TG, C1-C5

200



SHALE: Blk dark brown firm sbfis to blocky carbonaceous interbed with LIMESTONE: Mot brown buff fine crystalline hard dense sbchky poor vis porosity no fluorescence no stain or cut

IS: Dk brown black medium to light brown buff micr crpxln to micxn dense sbchky in part fossils clean to marly fossils tight no show trace CHRT

SHALE: Blk firm fissile carbonaceous interbed with IS: Dk brown black medium to light brown buff micr crpxln to micxn dense sbchky in part fossils clean to marly fossils tight no show trace CHRT

SHALE: Blk dark brown firm fissile to blocky waxy to silty carbonaceous interbed with LIMESTONE: Dk to medium brown occasional black crpxln hard dense argillaceous to marly occasional sbchky and clean poor vis porosity no fluorescence no stain or cut

SHALE: Blk firm fissile carbonaceous

LIMESTONE: Dk brown gray black mottled micr fine crystalline dense argillaceous to marly silty carbonaceous occasional sbchky no show

SHALE: Blk firm sbfis carbonaceous calcareous silty in with trace LIMESTONE: as above tr COAL

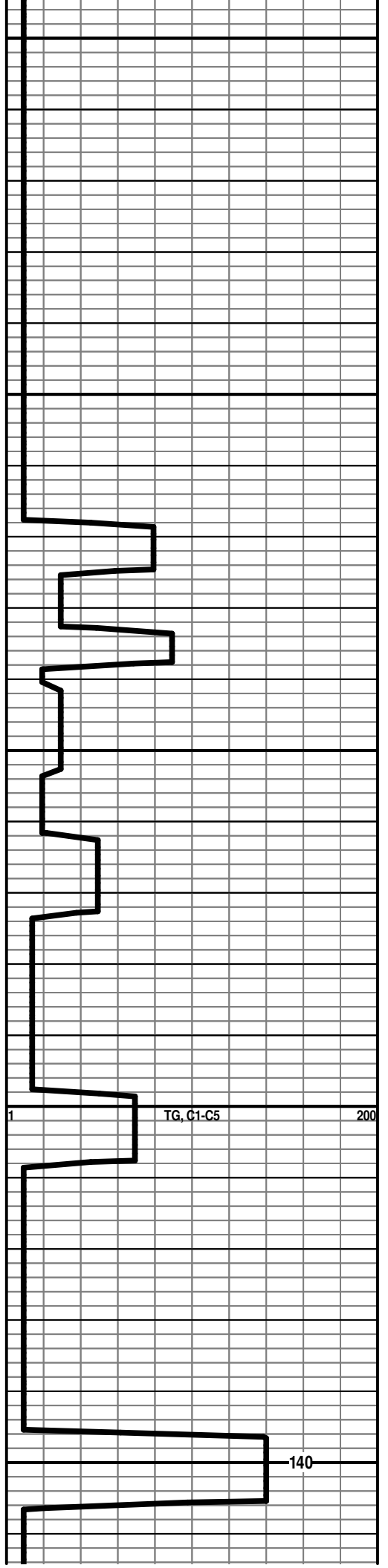
Tr LIMESTONE: Dk mottled brown to gray micr crpxln hard dense argillaceous to marly sndy carbonaceous tight no show with SHALE: Blk firm sbfis carbonaceous silty to sndy in part tr SS: Lt brn to tan spec gn s&p hd dns f w srt d grs sil cmt dln calc sl glauc tr intgran por no show

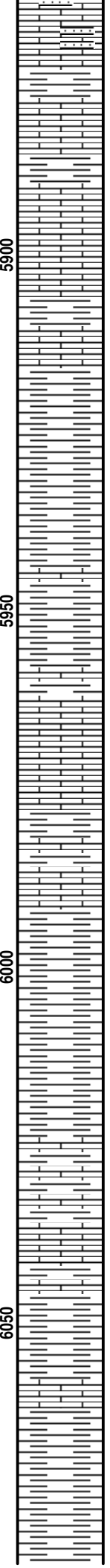
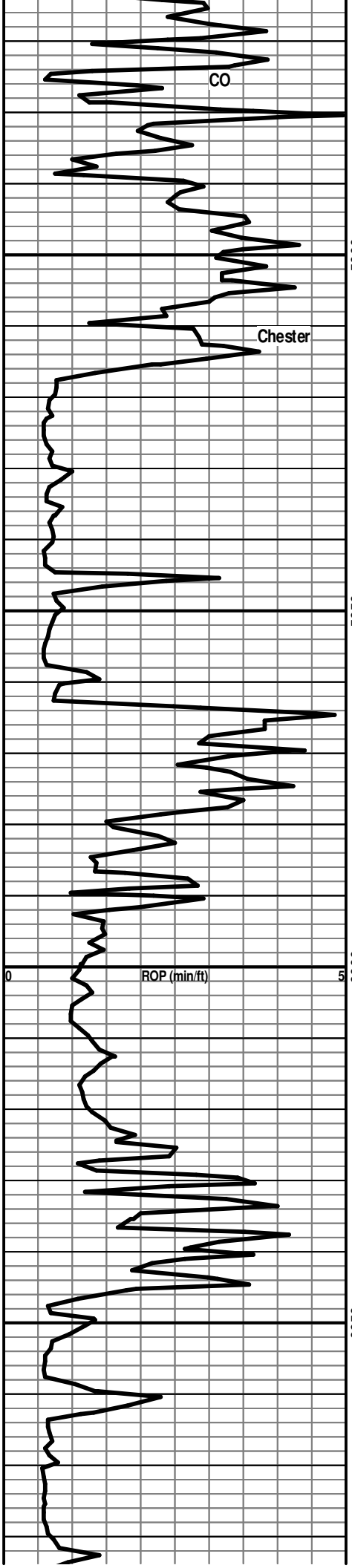
SHALE: Blk firm sbfis carbonaceous silty to sndy in part tr SS: Lt brn to tan S&P Spec gn hd dns f w srt d grs sil cmt dln calc sl glauc tt/tr intgran por no show

SH: Blk frm fis carb with tr SS: aa

SS(10% spl): Spec gn s&p lt brn trnsi hd to fri vf w srt d sbrnd grs sil cmt dln glauc fr to occ gd intgran por bri lt o mg hydrc flor - dissipates to a pale bl when dried gd blndng to strmg cut gas bubbles when crushed no stn or free oil

SH: Dk gy brn blk blkly sndy glauc





LS: Lt brn spec brn bf f xln dns sbchky brit cln
sndy no show intbd with SH: aa

LS: Med to lt brn gy micr crpxln to micxln hd
dns mrlly ip foss carb tt no show intbd with SH:
aa

LS: Wh lt brn to bf mot orng sft brit chky foss
cln to arg ip tr intxln & moldic por abt chlk infill
no flor no stn or cut intbd with SH: Dk gy blk frm
sp lty to fis carb

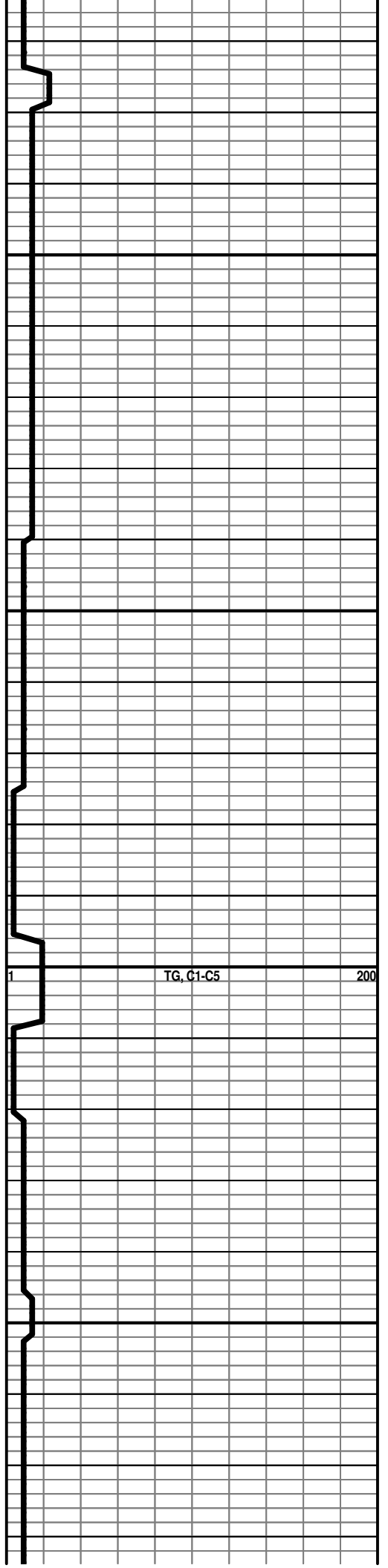
SH: Blk dk brn frm sbfis carb

LS: Bf lt brn to wh lt gy mot orng f xln chlky foss
cln p vis por no show

SH: Dk gy blk brn hd blk carb sndy ip occ intbd
with chlky LS: no show

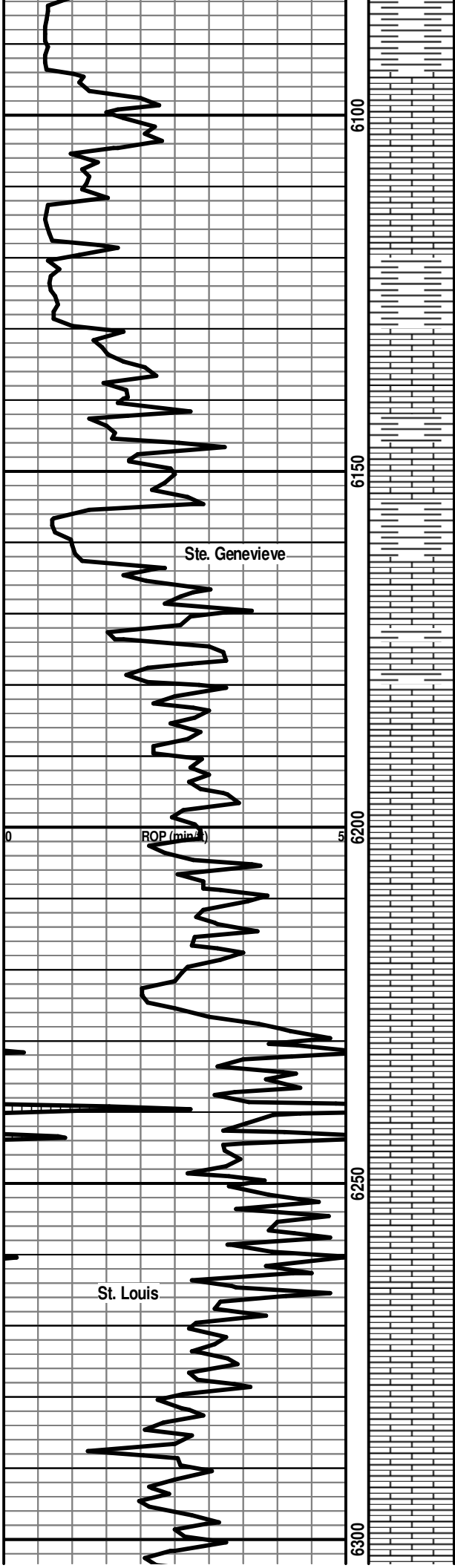
SH: Med gy gygn red to brn viol mar varic rthy
blk wxy to sndy intbd with LS: Lt brn to gy micr
f xln sbchky foss sndy cln tt no show

SH: Med gy gygn red to brn viol mar varic rthy
blk wxy to sndy intbd with LS: Lt brn to gy micr
f xln sbchky foss sndy cln tt no show



TG, C1-C5

200



LS: Lt brn to gy micr f xln sbchky foss sndy cln tt no show

LS: Spec brn mot grn to redbrn gy to gn varic ip f xln sbchky arg to mrlly sndy pp vug por pred tt v dull dk hydc flor fr strmg cut spec brn o stn tr live oil wk show

SH: Med gy gygn red to brn viol mar varic rthy blkly wxy to sndy intbd with LS: Lt brn to gy micr f xln sbchky foss sndy cln tt no show

SH: Gy to brn redbrn gygn mar viol varic rthy blkly wxy intbd with LS: Tan med to lt brn bf f xln dns foss sbchky ip p vis por no show

LS: Tan med to lt brn bf gy redbrn brit fri v sndy ip & grdng to SS tr intxln/gran por f vug & moldic por v dull spec goldbrn hydc flor(6% sp) exc explosive cut dk mt x o stn & hvy live oil

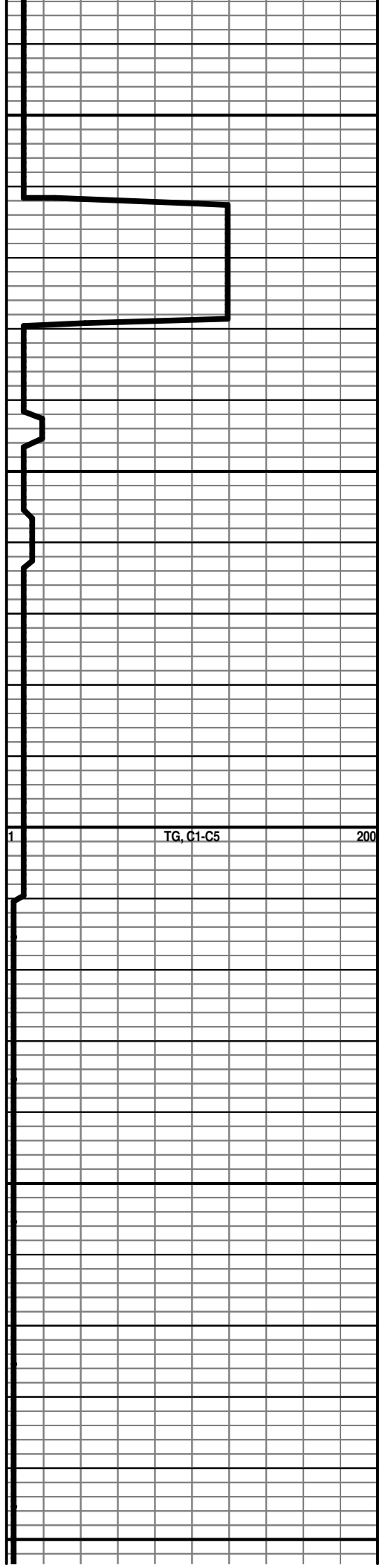
LS: Lt brn bf wh v sndy cln foss p vis por no show tr SH: aa varic ip

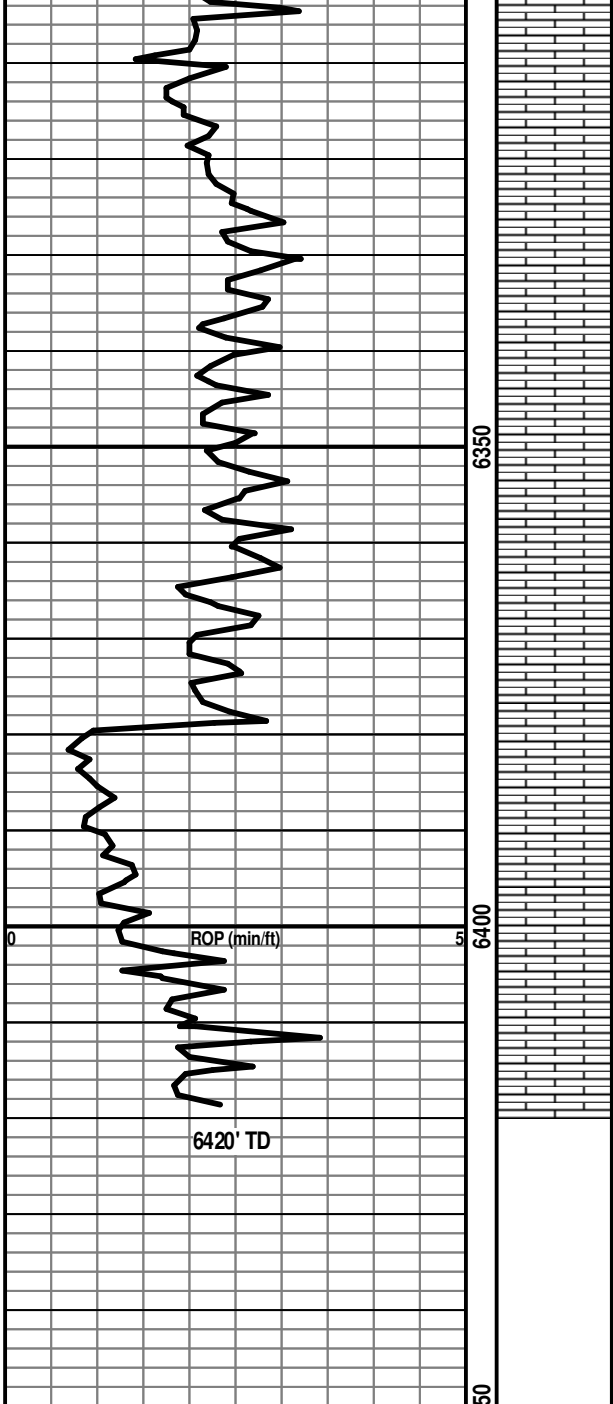
LS: Lt brn bf wh v sndy cln foss p vis por no show

LS: Lt brn bf wh v sndy cln foss p vis por no show

LS: Lt brn bf wh micxln foss sndy v chlky ip p vis por no flor no stn or cut with LS: Wh sft v chlky ip p vis por no show occ v sndy

LS: Lt brn bf wh micxln foss sndy v chlky ip p vis por no flor no stn or cut with LS: Wh sft v chlky ip p vis por no show occ v sndy





LS: Lt brn wh bf f xln hd dns foss sndy cln p vis
por no show

LS: Lt brn bf wh biomcr f xln v foss & ool with
sbchlky mtx intgran & occ moldic por no flor no
stn or cut

LS: Lt brn wh bf f xln hd dns foss sndy cln p vis
por no show

TG, C1-C5

200

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



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

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

February 06, 2015

Joseph Forma
O'Brien Energy Resources Corp.
18 CONGRESS ST, STE 207
PORTSMOUTH, NH 03801-4091

Re: ACO-1
API 15-119-21377-00-00
Vail 8-30
NE/4 Sec.30-33S-29W
Meade County, Kansas

Dear Joseph Forma:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 10/08/2014 and the ACO-1 was received on February 06, 2015 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department