Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1085723

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 # 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: Joe 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
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

5/6/2012	5/11/2012	5/12/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-119-21318-00-00
Spot Description:
NW SE NW SE Sec. 8 Twp. 33 S. R. 29 ☐ East ☑ West
1858 Feet from ☐ North / ☑ South Line of Section
1671 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Meade
Lease Name: Crooked Creek Offset Well #: 5-8
Field Name:
Producing Formation: NA
Elevation: Ground: 2671 Kelly Bushing: 2683
Total Vertical Depth: 6356 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1489 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: 9400 ppm Fluid volume: 100 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Max Papay LLC
Lease Name: Sneed License #: 34021
Quarter NW Sec. 14 Twp. 34 S. R. 30 ☐ East ☑ West
County: Meade Permit #: 15-119-20946-0001

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: 07/03/2012
☑ **Confidential Release Date:** 07/03/2014
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 07/05/2012

[redacted] 1085723

Operator Name: O'Brien Energy Resources Corp. Lease Name: Crooked Creek Offset Well #: 5-8

Sec. 8 Twp. 33 S. R. 29 ☐ East ☑ West County: Meade

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Micro
Neutron
Induction

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

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.6250	24	1489	Acon	550	3%CaCl

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	-			
	-			

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 *(Amount and Kind of Material Used)*	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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

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

PRODUCTION INTERVAL:
_____
_____

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

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Crooked Creek Offset 5-8
Doc ID	1085723

Tops

Name	Top	Datum
Heebner	4462’	-1779
Toronto	4485’	-1802
Lansing	4607	-1924
Marmaton	5270	-2587
Cherokee	5442	-2759
Atoka	5701	-3018
Morrow	5760	-3077
Mississippi Chester	5884	-3201
Ste. Genevieve	6124	-3441
St. Louis	6211	-3528

O'Brien Energy Resources, Inc.
Crooked Creek Offset No. 5-8, Angell South Field
Section 8, T33S, R29W
Meade County, Kansas
May, 2012

Well Summary

The O'Brien Energy Resources, Crooked Creek Offset No. 5-8 was drilled to a total depth of 6350' in the Mississippian St. Louis Formation. It offset the Crooked Creek Offset No. 4-8 by 1200' to the West. Formation tops ran high relative to this offset. The Heebner to the Atoka ran 7' high. The Morrow came in 5' high. The Chester, Ste. Genevieve and St. Louis came in 21', 13' and 6' high respectively.

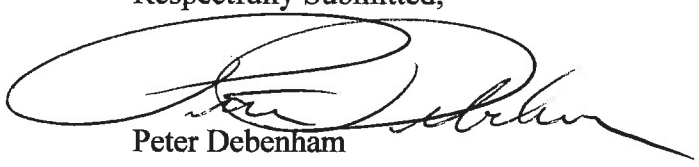
Several Morrow show intervals were documented. A Morrow B Sandstone(5813'-5821') consists of a Sandstone in 15% of the samples: Light brown, buff, hard to friable in part, very fine upper, well sorted subround grains, siliceous cement, slightly calcareous, clean, trace intergranular and fine vuggy porosity, bright light yellow to pale blue hydrocarbon fluorescence(all sand) good streaming cut, trace light brown matrix oil stain, gas bubbles when crushed, no live oil, slight odor. A 42 Unit gas increase was recorded. This interval proves tight with 2' of 12 percent porosity and little micro log separation.

The interval from 5838' to 5854' consists of a Sandstone in 25% of the samples: Light to medium mottled brown to gray, hard, slightly friable, very fine upper to fine lower, well sorted, subround grains, very calcareous, fossiliferous, argillaceous to clean, good intergranular porosity and fine vuggy porosity, pale mottled blue hydrocarbon fluorescence(most SS), slow bleeding to weak streaming cut, trace gas bubbles and oil stain when crushed, weak show. A 120 to 70 Unit gas kick was recorded. This interval calculates wet.

Additional minor shows were noted in the St. Louis and Cherokee.

The Crooked Creek Offset No. 5-8 was plugged and abandoned 5/12/12.

Respectfully Submitted,



Peter Debenham

WELL DATA

Operator:	O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH Geologist: Paul Wiemann – Denver, CO
Prospect Geologist:	David Ward, Ed Schuett, Denver
Well:	Crooked Creek No. 5-8, Angell South Field
Location:	1858'' FSL & 1671' FEL, Section 8, T33S, R29W, Meade County, Kansas – Southeast of Plains.
Elevation:	Ground Level 2671', Kelly Bushing 2683'
Contractor:	Duke Drilling Rig No. 6, Type: Double jacknife, triple stand, Toolpusher Rick Schollenbarger, Drillers: Terry Sorter, Danny White, Saul Garcia
Company Man:	Roger Pearson – Liberal, Kansas
Spud Date:	5/5/12
Total Depth:	5/11/12, Driller 6350', Logger 6356', St. Louis Formation
Casing Program:	40 joints of 8 5/8", J-2, 24Lbs/ft, set at 1480'.
Mud Program:	Mud-Co/Service Mud, engineer Justin Whiting, displaced 2800', Chem. gel/LCM.
Wellsite Consultant:	Peter Debenham with mudlogging trailer, Call depth 4000', Box 350, Drake, CO 80515, 720/220-4860.
Samples:	30' to 5700', 20' to TD and 10' through zones of interest.
Electric Logs:	Weatherford, engineer Ron Hoffman , Array Induction, Compensated Neutron/Density, Microlog, Hi Res.
Status:	Plugged and abandoned 5/12/12

WELL CHRONOLOGY

DATE	10 PM DEPTH	FOOTAGE	RIG ACTIVITY
5/4			Move to and rig up rotary tools.
5/5	1165'	1165'	Mix spud mud and blow down mouse hole and rat hole. Spud in 12 ¼" surface hole to 1165'. Survey(3/4 deg.).
5/6	1630'	1490'	To 1490' and circulate and trip out. Run and cement 8 5/8" set at 1480' and wait on cement. Plug down at 10 am. Back off landing joint and nipple up BOP and pressure test blind rams. Trip in and test pipe rams. Drill plug and cement and 7 7/8" hole to 1630'.
5/7	3110'	1390'	To 1700' and trip for bit no. 3. Survey(1/2 deg.) and drill to 3110'. Clean suction and displace mud system at 2500'.
5/8	4500'	1390'	
5/9	5255'	755'	To 5010' and circulate and wiper trip 27 stands. To 5255'.
5/10	6265'	1010'	
5/11	6350'TD	85'	TD and circulate and short trip 40 stands and circulate and condition mud. Drop survey(1 deg.) and out for logs and run e-logs. Trip and oout open ended and plug and abandon well.
5/12	TD		Plug and abandon well and rig down.

LOST CIRCULATION

none

BIT RECORD

NO.	MAKE	TYPE	SIZE	OUT	FOOTAGE	HOURS
1	STC	FDnSTC	12 ¼"	1490'	1490'	22
2	STC	F27I	7 7/8"	1700'	210'	4 1/2
3	HTC	Q506F	7 7/8"	6350'	4650'	97 1/2
				Total Rotating Hours:		123
				Average:		51.6 Ft/hr

DEVIATION RECORD - degree

1012' ¾, 1490' ¾, 3043' ¾, TD 1

MUD PROPERTIES

DATE	DEPTH	WT	VIS	PV	YP	pH	WL	CL	LCM-LBS/BBL
5/5	400'	8.8	29			7.0	nc	120	3
5/6	1490'	Water							
5/7	2430'	9.5	29			7.0	n/c	70k	2
5/8	3856'	8.95	42	12	12	8.0	18.0	6.4	3
5/9	5035'	8.75	58	16	17	9.6	9.6	4.4k	2
5/10	5920'	9.1	52	15	17	9.5	10.0	3.7k	2

ELECTRIC LOG FORMATION TOPS- KB Elev. 2656'

			*Crooked Creek No. 4-8	
FORMATION	DEPTH	DATUM	DATUM	POSITION
Casing	1489'			
Heebner	4462'	-1779'	-1786'	+7'
Toronto	4485'	-1802'	-1810'	+8'
Lansing	4607'	-1924'	-1930'	+6'
Marmaton	5270'	-2587'	-2592'	+5'
Cherokee	5442'	-2759'	-2766'	+7'
Atoka	5701'	-3018'	-3025'	+7'
Morrow	5760'	-3077'	-3082'	+5'
Mississippi Chester	5884'	-3201'	-3222'	+21'
Ste. Genevieve	6124'	-3441'	-3454'	+13'
St. Louis	6211'	-3528'	-3534'	+6'
TD	6356'	-3643'		

*O'Brien Energy Resources, Crooked Creek No. 4-8, 2271'FSL & 526'FEL, Sec. 8 – app. 1150' to the East, K.B. Elev. 2656'.

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, Crooked Creek No. 5-8, Angell South Field		
Location:	1858'FSL & 1671'FEL, Section 8, 33S, R29W, Meade Co., KS		
Licence Number:	API: 15-119-21318	Region:	Hougoton
Spud Date:		Drilling Completed:	5/12/11
Surface Coordinates:	1858'FSL & 1671'FEL, Section 8, 33S, R29W, Meade Co., KS		
Bottom Hole Coordinates:	1858'FSL & 1671'FEL, Section 8, 33S, R29W, Meade Co., KS		
Ground Elevation (ft):	2671'	K.B. Elevation (ft):	2683'
Logged Interval (ft):	4500' To: TD	Total Depth (ft):	6350'
Formation:	Lansing, Morrow, Chester, Ste Genevieve, St. Louis		
Type of Drilling Fluid:	Chemical Gel/LSND/LCM, mud up 2500'		

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

Duke Drilling Rig No. 6, Type: Double jacknife, triple stand, Toolpusher Rick Schollenbarger, Drillers: Terry Sorter, Danny White, Saul Garcia, Engineer Roger Pearson, Winter MudMud-Co./Service Mud, Engineer Justin Whiting, displaced 2500', P&A 5/11/12.

ROCK TYPES

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
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- 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

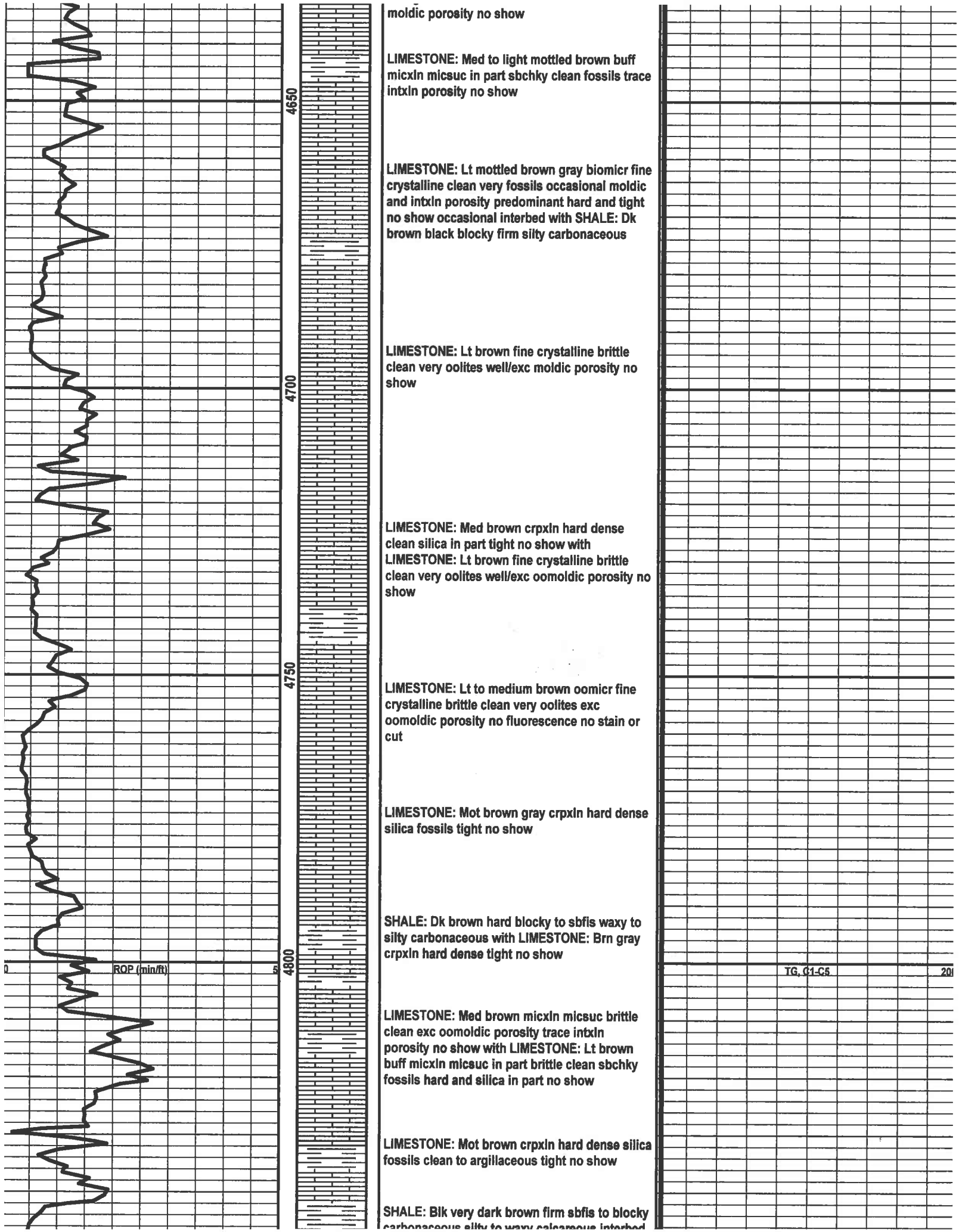
OIL SHOWS
- Even
- Spotted
- Ques
- Dead

Curve Track 1
ROP (min/ft)

TG, C1-C5
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)

Depth	Lithology	Oil Shows	Geological Descriptions
4500			LIMESTONE: Lt to medium brown tan micxln micsuc in part clean to argillaceous fossils carbonaceous incls trace intxln 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
			SHALE: Gy brown firm blocky fossils carbonaceous occasional interbed with LIMESTONE: as above no show
4600			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
			LIMESTONE: Mot brown light brown gray biomicr fine crystalline hard dense fossils clean

ROP (min/ft) 0 5
TG, C1-C5 1 20
Lansing



moldic porosity no show

LIMESTONE: Med to light mottled brown buff micxln micsuc in part sbchky clean fossils trace intxln porosity no show

LIMESTONE: Lt mottled brown gray biomicr fine crystalline clean very fossils occasional moldic and intxln 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 oomicr fine crystalline brittle clean very oolites exc oomoldic porosity no fluorescence no stain or cut

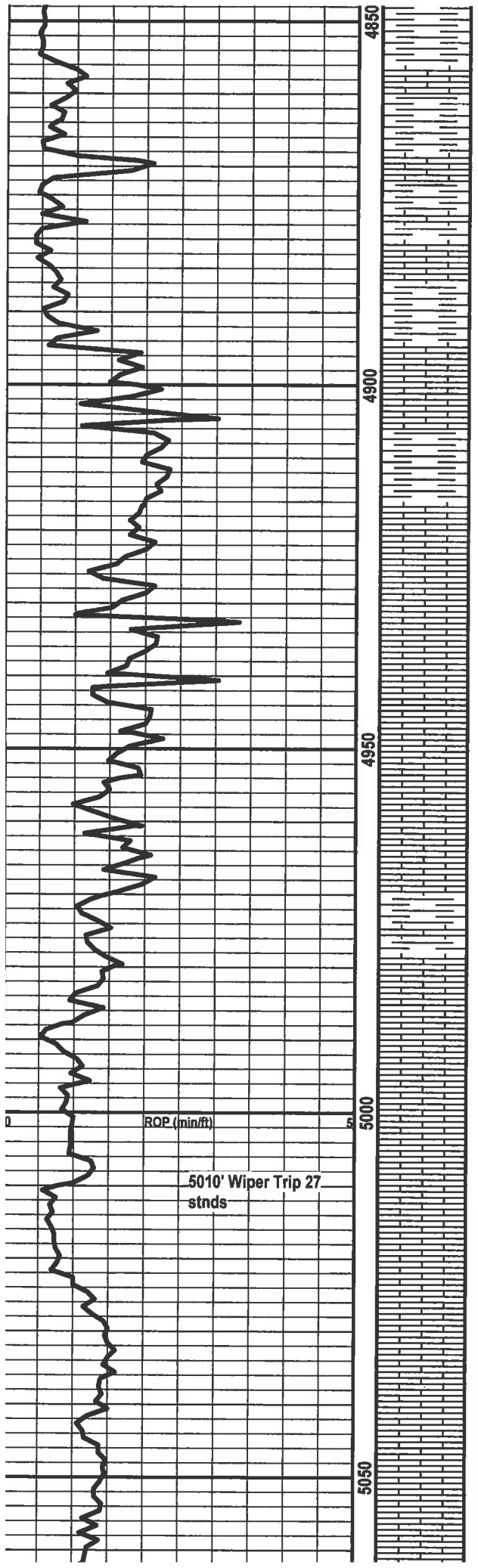
LIMESTONE: Mot brown gray crpxln hard dense silica fossils tight no show

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

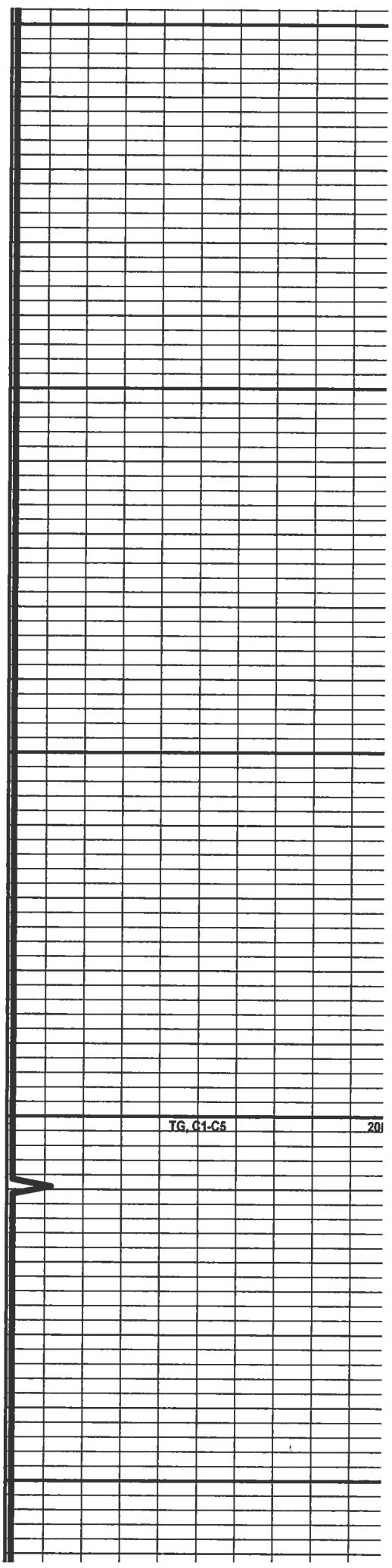
LIMESTONE: Lt brown gray buff micxln micsuc very brittle clean chalky in part trace intxln porosity occasional moldic porosity no show

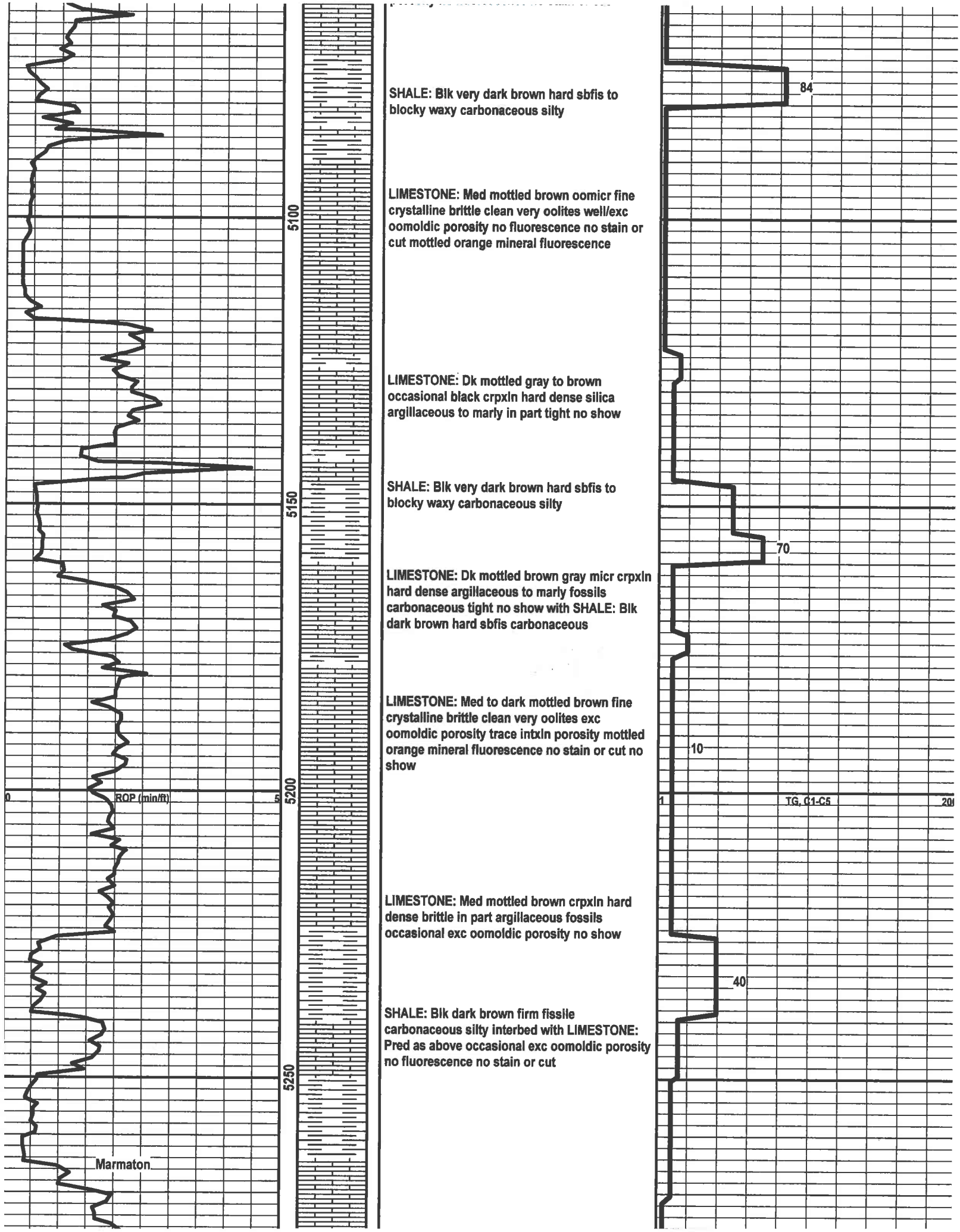
SHALE: Blk dark brown firm sbfis carbonaceous with LIMESTONE: Lt brown gray buff micxln micsuc very brittle clean chalky in part trace intxln porosity occasional moldic porosity no show

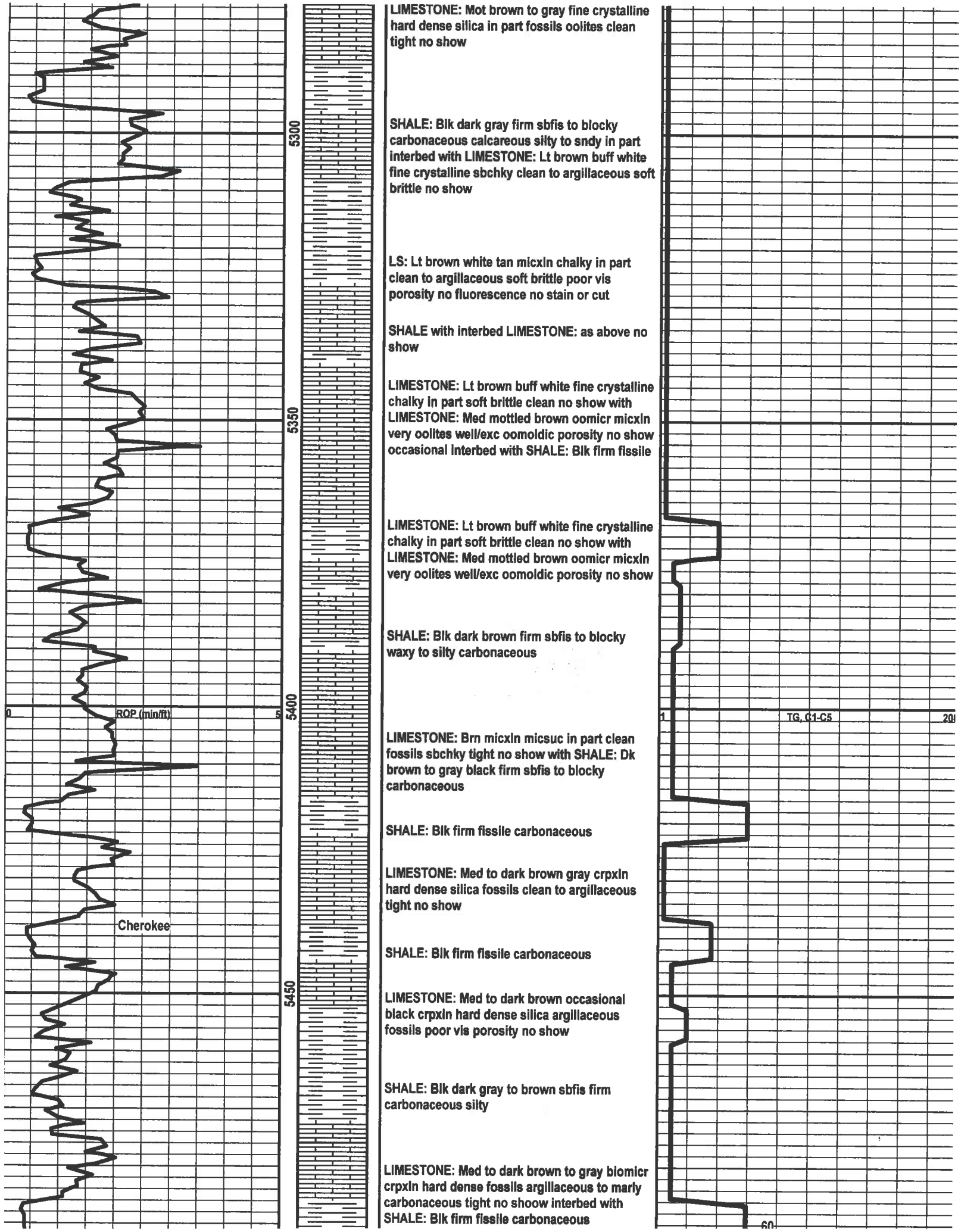
LIMESTONE: Med to dark mottled brown light brown buff micro/crpxln micsuc in part clean to marly silica in part predominant hard and tight occasional micsuc with intxln porosity no fluorescence no stain or cut

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 with trace intercrystalline




SHALE: Blk very dark brown hard sbfis to blocky waxy carbonaceous silty
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 no stain or cut no 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
5100
5150
5200
5250
0
ROP (min/ft)
5
Marmaton
84
70
10
1
TG, C1-C5
40



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

LS: Lt brown white tan micxln 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 oomicr micxln very oolites well/exc oomoldic porosity no show occasional interbed with SHALE: Blk firm fissile

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

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

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

SHALE: Blk firm fissile carbonaceous

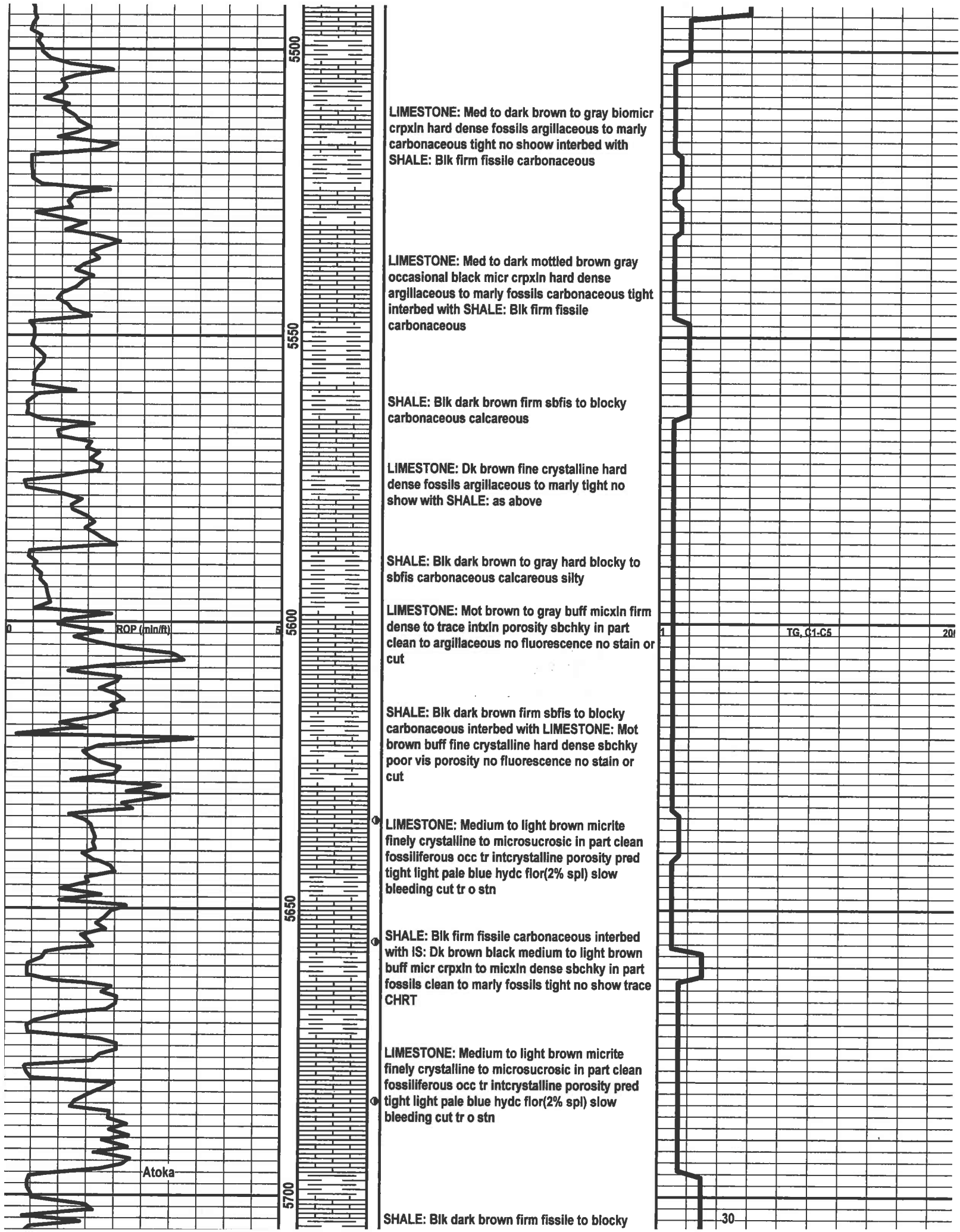
LIMESTONE: Med to dark brown gray crpxln hard dense silica fossils clean to argillaceous tight no show

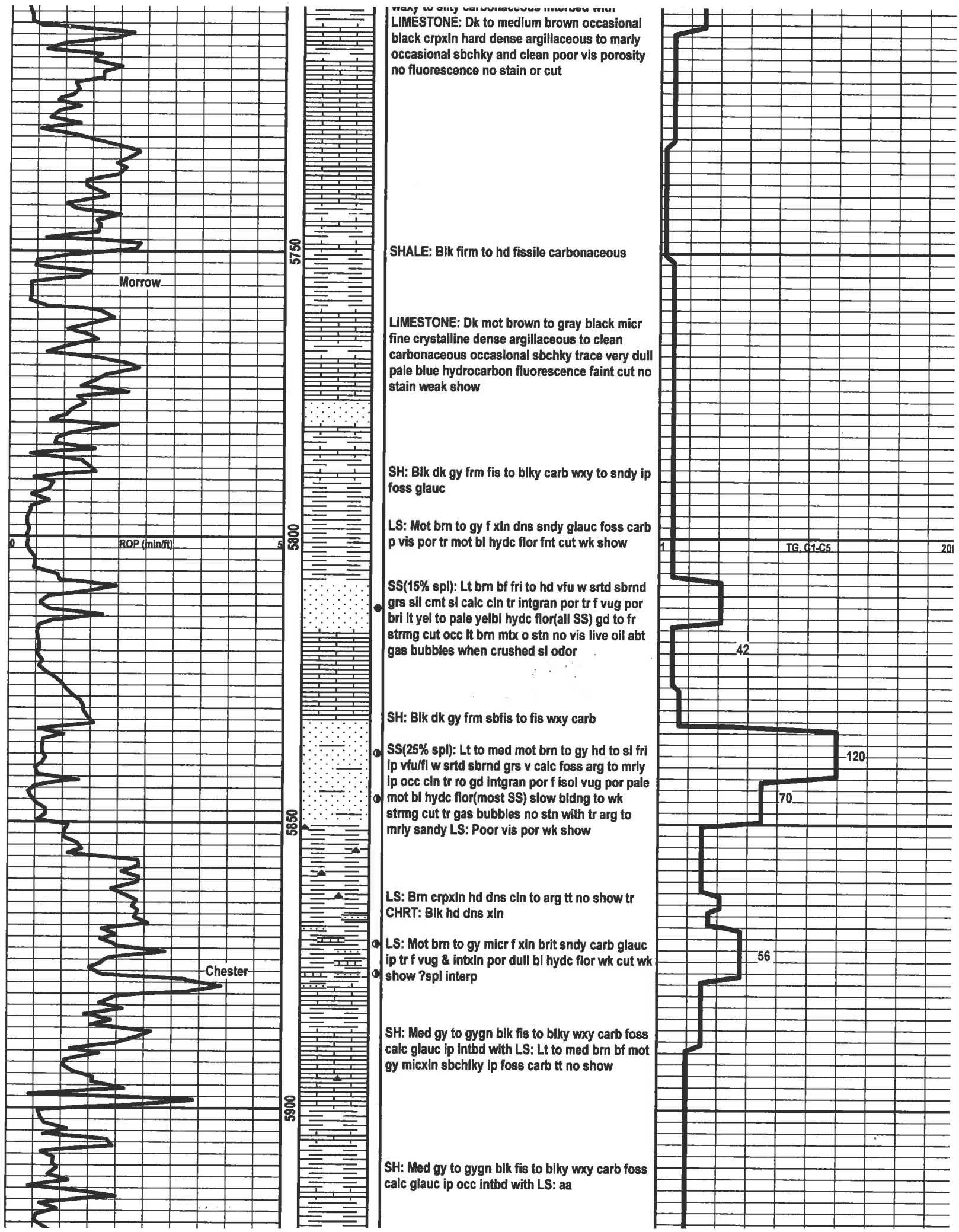
SHALE: Blk firm fissile carbonaceous

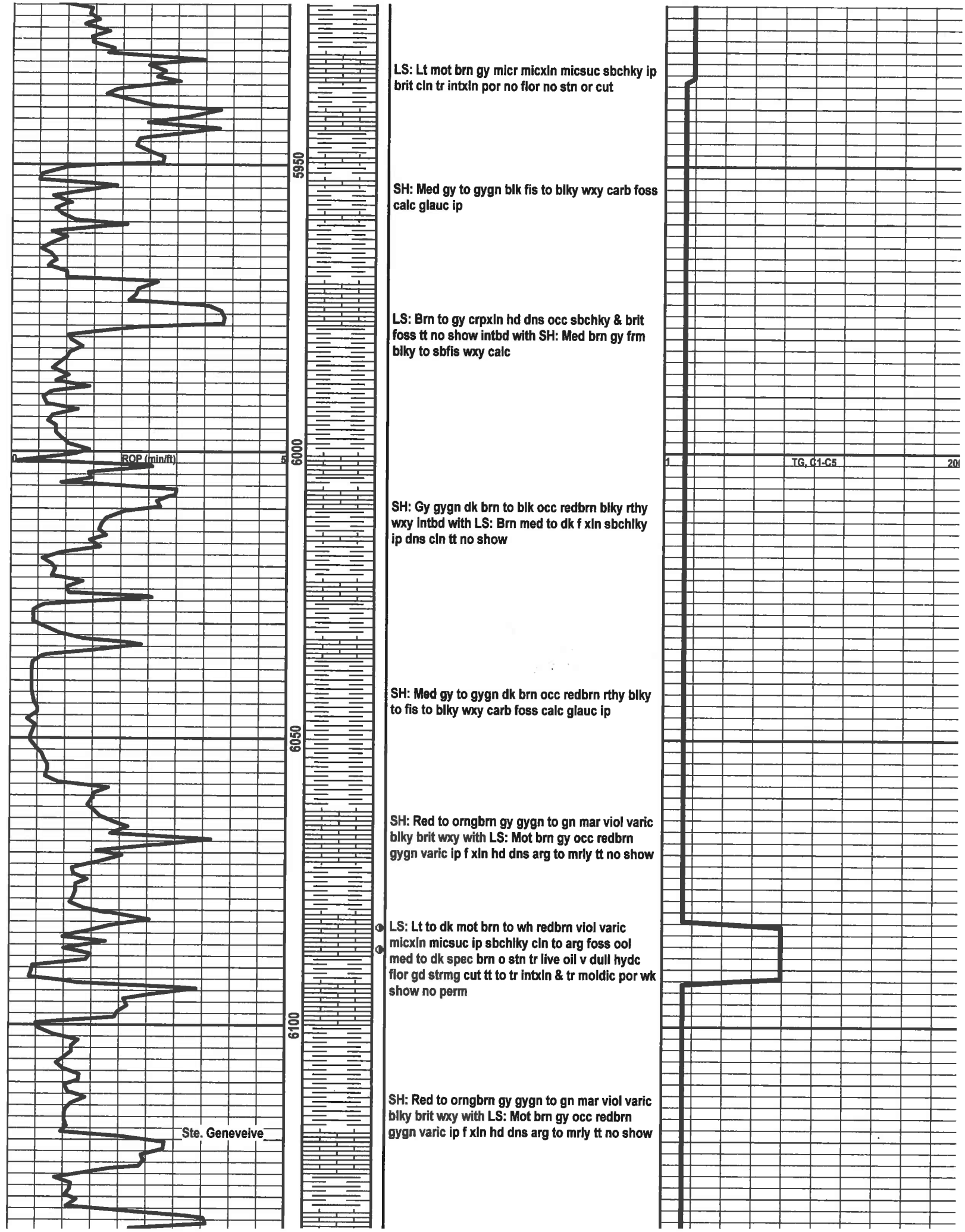
LIMESTONE: Med to dark brown occasional black crpxln hard dense silica argillaceous fossils poor vis porosity no show

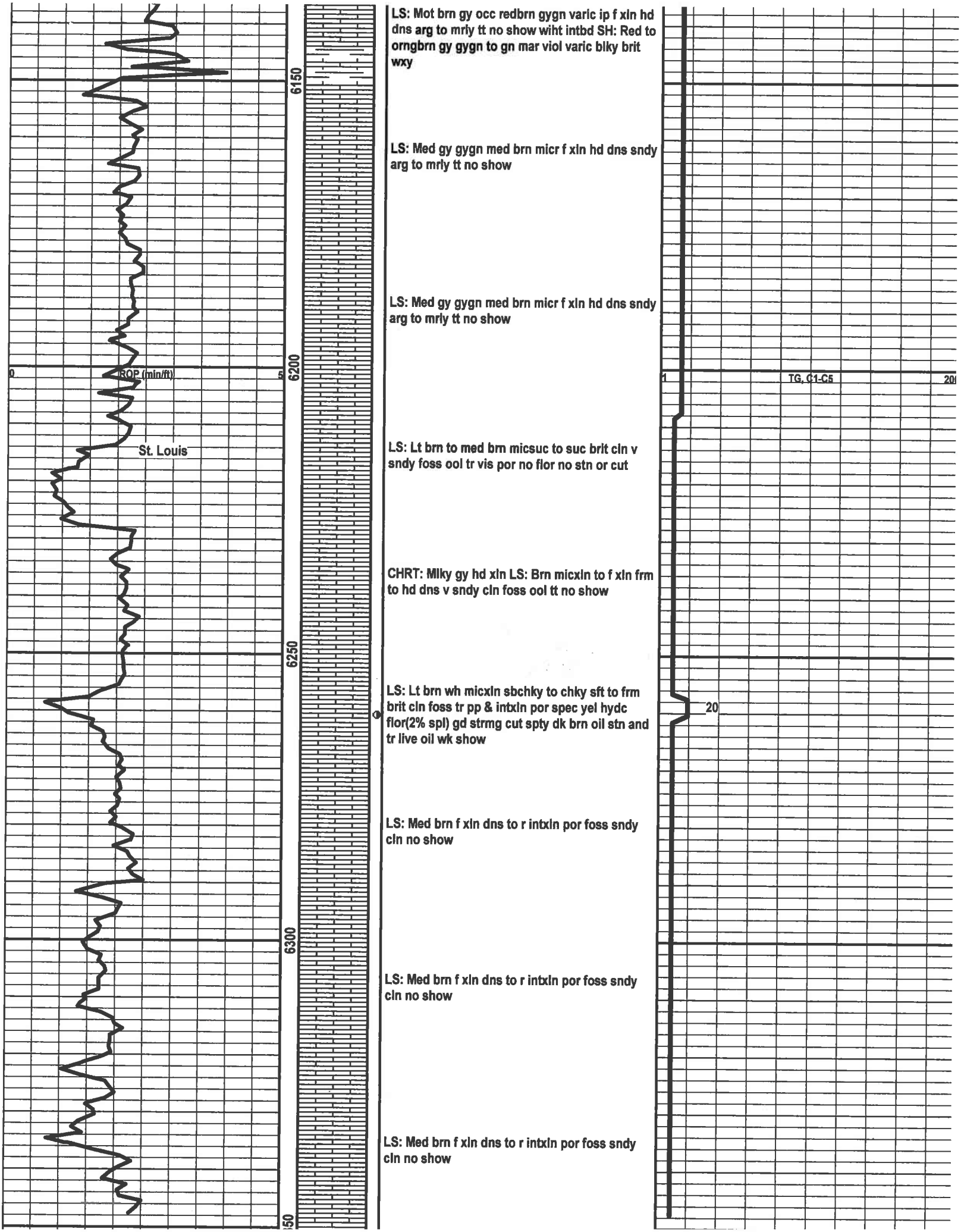
SHALE: Blk dark gray to brown sbfis firm carbonaceous silty

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


ROP (min/ft)
TG, C1-C5
5500
5550
5600
5650
5700
Atoka
LIMESTONE: Med to dark brown to gray biomicr crpxln hard dense fossils argillaceous to marly carbonaceous tight no shoow interbed with SHALE: Blk firm fissile carbonaceous
LIMESTONE: Med to dark mottled brown gray occasional black micr 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
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
LIMESTONE: Medium to light brown micrite finely crystalline to microsucrosic in part clean fossiliferous occ tr intcrystalline porosity pred tight light pale blue hydc flor(2% spl) slow bleeding cut tr o stn
SHALE: Blk firm fissile carbonaceous interbed with IS: Dk brown black medium to light brown buff micr crpxln to micxln dense sbchky in part fossils clean to marly fossils tight no show trace CHRT
LIMESTONE: Medium to light brown micrite finely crystalline to microsucrosic in part clean fossiliferous occ tr intcrystalline porosity pred tight light pale blue hydc flor(2% spl) slow bleeding cut tr o stn
SHALE: Blk dark brown firm fissile to blocky
30


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 to hd fissile carbonaceous
Morrow
LIMESTONE: Dk mot brown to gray black micr fine crystalline dense argillaceous to clean carbonaceous occasional sbchky trace very dull pale blue hydrocarbon fluorescence faint cut no stain weak show
SH: Blk dk gy frm fis to blky carb wxy to sndy ip foss glauc
LS: Mot brn to gy f xln dns sndy glauc foss carb p vis por tr mot bl hydc flor fnt cut wk show
0
ROP (min/ft)
5
5750
5800
5850
5900
1
TG, C1-C5
20
42
120
70
56
SS(15% spl): Lt brn bf fri to hd vfu w srtd sbrnd grs sil cmt sl calc cln tr intgran por tr f vug por bri lt yel to pale yelbl hydc flor(all SS) gd to fr strmg cut occ lt brn mtx o stn no vis live oil abt gas bubbles when crushed sl odor
SH: Blk dk gy frm sbfis to fis wxy carb
SS(25% spl): Lt to med mot brn to gy hd to sl fri ip vfu/fl w srtd sbrnd grs v calc foss arg to mrly ip occ cln tr ro gd intgran por f isol vug por pale mot bl hydc flor(most SS) slow bldng to wk strmg cut tr gas bubbles no stn with tr arg to mrly sandy LS: Poor vis por wk show
LS: Brn crpxln hd dns cln to arg tt no show tr CHRT: Blk hd dns xln
LS: Mot brn to gy micr f xln brit sndy carb glauc ip tr f vug & intxln por dull bl hydc flor wk cut wk show ?spl interp
Chester
SH: Med gy to gygn blk fis to blky wxy carb foss calc glauc ip intbd with LS: Lt to med brn bf mot gy micxln sbchlky ip foss carb tt no show
SH: Med gy to gygn blk fis to blky wxy carb foss calc glauc ip occ intbd with LS: aa


LS: Lt mot brn gy micr micxln micsuc sbchky ip brit cln tr intxln por no flor no stn or cut
SH: Med gy to gygn blk fis to blky wxy carb foss calc glauc ip
LS: Brn to gy crpxln hd dns occ sbchky & brit foss tt no show intbd with SH: Med brn gy frm blky to sbfis wxy calc
SH: Gy gygn dk brn to blk occ redbrn blky rthy wxy intbd with LS: Brn med to dk f xln sbchlky ip dns cln tt no show
SH: Med gy to gygn dk brn occ redbrn rthy blky to fis to blky wxy carb foss calc glauc ip
SH: Red to orngbrn gy gygn to gn mar viol varic blky brit wxy with LS: Mot brn gy occ redbrn gygn varic ip f xln hd dns arg to mrly tt no show
LS: Lt to dk mot brn to wh redbrn viol varic micxln micsuc ip sbchlky cln to arg foss ool med to dk spec brn o stn tr live oil v dull hydc flor gd strmg cut tt to tr intxln & tr moldic por wk show no perm
SH: Red to orngbrn gy gygn to gn mar viol varic blky brit wxy with LS: Mot brn gy occ redbrn gygn varic ip f xln hd dns arg to mrly tt no show
5950
6000
6050
6100
ROP (min/ft)
0
5
TG, C1-C5
1
20
Ste. Geneveive


LS: Mot brn gy occ redbrn gygn varic ip f xln hd dns arg to mrly tt no show wiht intbd SH: Red to orngbrn gy gygn to gn mar viol varic blky brit wxy
LS: Med gy gygn med brn micr f xln hd dns sndy arg to mrly tt no show
LS: Med gy gygn med brn micr f xln hd dns sndy arg to mrly tt no show
0
ROP (min/ft)
5
6200
1
TG, C1-C5
20
St. Louis
LS: Lt brn to med brn micsuc to suc brit cln v sndy foss ool tr vis por no flor no stn or cut
CHRT: Mlky gy hd xln LS: Brn micxln to f xln frm to hd dns v sndy cln foss ool tt no show
6250
LS: Lt brn wh micxln sbchky to chky sft to frm brit cln foss tr pp & intxln por spec yel hydc flor(2% spl) gd strmg cut spty dk brn oil stn and tr live oil wk show
20
LS: Med brn f xln dns to r intxln por foss sndy cln no show
6300
LS: Med brn f xln dns to r intxln por foss sndy cln no show
LS: Med brn f xln dns to r intxln por foss sndy cln no show
6150
6350

BASIC ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer: O'Brien Energy	Lease No.	Date: 5-5-12	
Lease: Crooked Creek	Well #: 4	Service Receipt	
Casing: 8 5/8	Depth: 1489	County: Meade	State: KS
Job Type: 8 5/8 Surface	Formation	Legal Description: 8-33-29	

Pipe Data		Perforating Data		Cement Data
Casing size: 8 5/8	Tubing Size	Shots/Ft		Lead: 400sk ACon - 3%CC ¼# Poly
Depth: 1489	Depth	From	To	
Volume: 92	Volume	From	To	
Max Press	Max Press	From	To	Tail in: 150sk Prem Plus - 2%CC ½# Poly
Well Connection	Annulus Vol.	From	To	
Plug Depth: 1447	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate	Service Log
0800					On location - Spot + Rig up
0900					Casing on bottom - Break Circ.
0905		2000			Pressure test
0907		200	210	5	Mix 400sk ACon @ 11.4 PPG
0958		200	36	5	Mix 150sk Prem Plus @ 14.8 PPG
0941					Shut down - drop top plug
0944		200	0	5	Start displacement w/ Fresh Water
1000		300	72	2	Slow Rate
1011		350	82	1	Slow Rate
1021		400-900	92		Bump Plug
1023		900-0			Release Pressure - Float Held
					Circulate Cement to the Pit
90					

Service Units	21755	38111/14916	14355/14284	14354/19574		
Driver Names	Kirby	Ruben	Scott	Julian		

Roger Pearson
Customer Representative

Jerry Bennett
Station Manager

Kirby Warren
Cementer

Taylor Printing, Inc.

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

Kansas
Corporation Commission

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

July 03, 2012

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

Re: ACO1
API 15-119-21318-00-00
Crooked Creek Offset 5-8
SE/4 Sec.08-33S-29W
Meade 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.

Respectfully,

Joe Forma
Vice President