KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32211
Name: O'BRIEN ENERGY RESOURCES CORP.
Address 1: 18 CONGRESS STREET, STE. 207
Address 2:
City: PORTSMOUTH State: NH Zip: 03801 + _____
Contact Person: JOSEPH FORMA
Phone: (603) 427-2099
CONTRACTOR: License # 5929
Name: DUKE DRILLING CO., INC.
Wellsite Geologist: PETER DEBENHAM
Purchaser:

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Designate Type of Completion:

_____ New Well _____ Re-Entry _____ Workover
_____ Oil _____ SWD _____ SIOW
_____ Gas _____ ENHR _____ SIGW
_____ CM *(Coal Bed Methane)* _____ Temp. Abd.
✓ Dry _____ Other DRY & ABANDONED
(Core, WSW, Expl., Cathodic, 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: _____ Plug Back Total Depth
_____ Commingled Docket No.: _____
_____ Dual Completion Docket No.: _____
_____ Other *(SWD or Enhr.?)* Docket No.: _____

8/10/2010	8/16/2010	PLUGGED 8/17/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15- 15-119-21262-00-00
Spot Description: _____
_____ - W2 - SE - SE Sec. 10 Twp. 34 S. R. 26 ☐ East ☑ West
660 Feet from ☐ North / ☑ South Line of Section
990 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
County: MEADE
Lease Name: PAINTER Well #: 1-10
Field Name: MCKINNEY
Producing Formation: _____
Elevation: Ground: 2187' Kelly Bushing: 2199'
Total Depth: 6167' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 1520' 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: 2,000 ppm Fluid volume: 4 bbls
Dewatering method used: HAUL FREE WATER. NATURAL EVAP. W/36 INCH MINIMUM

Location of fluid disposal if hauled offsite:

Operator Name: DILLCO FLUID SERVICE, INC.
Lease Name: I B REGIER License No.: 6652
Quarter SWNE Sec. 17 Twp. 33 S. R. 27 ☐ East ☑ West
County: MEADE Docket No.: D21232

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature:
Title: VICE PRESIDENT Date: 9/07/2010
Subscribed and sworn to before me this 7th day of September, 20 10
Notary Public:
Date Commission Expires:

MARK EDDINGER
Notary Public - New Hampshire
My Commission Expires June 17, 2014

KCC Office Use ONLY

N Letter of Confidentiality Received
If Denied, Yes ☐ Date: _____
✓ Wireline Log Received
✓ Geologist Report Received
UIC Distribution
RHA - DG - 9/10/10

Side Two

Operator Name: O'BRIEN ENERGY RESOURCES CORP. Lease Name: PAINTER Well #: 1-10

Sec. 10 Twp. 34 S. R. 26 ☐ 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No
(Submit Copy)

List All E. Logs Run:

ARRAY INDUCTION, COMPENSATED NEUTRON LITHO. DENSITY

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

Name	Top	Datum
HEEBNER	4384'	-2185'
LANSING	4560'	-2361'
MARMATON	5255'	-3056'
CHEROKEE	5405'	-3206'
MORROW	5720'	-3521'
MISSISSIPPI CHESTER	5803'	-3604'
STE. GENEVIEVE	6076'	-3877'

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 1/4"	8 5/8"	24#	1520'	ACON	350	3%CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives

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

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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. ☐ Commingled ☐ Other *(Specify)* _____

PRODUCTION INTERVAL: _____

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

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
P.O. Box 129
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET
1717 00941 A

DATE TICKET NO.

DATE OF JOB 8-11-10 DISTRICT Liberal	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Obrien Energy	LEASE Painter WELL NO. 1-10
ADDRESS	COUNTY Meade STATE KS
CITY STATE	SERVICE CREW Arrington/Stegman
AUTHORIZED BY Jerry Bennett	JOB TYPE: 242 8⅝ Surface

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
30464	7				
19919	7				
14355	7				
14284	7				
19805	7				
19508	7				

	DATE	TIME
TRUCK CALLED	8-11-10	AM 6:00
ARRIVED AT JOB	8-11-10	AM 9:00
START OPERATION	8-11-10	AM 9:46
FINISH OPERATION	8-11-10	AM 15:45
RELEASED	8-11-10	AM 16:00
MILES FROM STATION TO WELL		20

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Roger Pearson
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CL101	A-Con Blend ✓	SK	350		6510 00
CL110	Premium Plus Cement ✓	SK	150		2445 00
CC109	Calcium Chloride ✓	lb	1332		1332 45
CC102	Cello Flake ✓	lb	285		788 10
CC130	C-51 ✓	lb	165		1650 00
CF1453	Flapper Type Insert 8⅝ ✓	EA	1		280 00
CF105	Top Rubber Plug 8⅝ ✓	EA	1		225 00
CE253	Guide Shoe 8⅝ ✓	EA	1		380 00
CF1903	8⅝ Basket ✓	EA	1		315 00
CF1773	Centralizer 8⅝ X 12¼ ✓	EA	4		580 00
E101	Heavy Equipment Mileage	Mi	80		560 00
CE240	Blending & Mixing	SK	750		1050 00
E113	Proppant & Bulk Delivery	tm	705		1128 00
CE202	Depth Charge 1001'-2000'	4hrs	1		1500 00
CE504	Plug Container	job	1		250 00
E100	Pickup Mileage	Mi	20		85 00
S003	Service Supervisor	EA	1		175 00
CE503	High Head Charge	job	1		300 00
				SUB TOTAL	13,564 85

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CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	

SERVICE REPRESENTATIVE Kevin Arrington

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Roger Pearson
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC energy services, L.P.

TREATMENT REPORT

Customer: OBrien Energy	Lease No.	Date: 8-11-10	
Lease: Painter	Well #: 1-10		
Field Order #: 1017009941	Station: Liberal	Casing: 8 5/8 24#	Depth: 1615
County: Meade	State: KS		
Type Job: Z 42 7 7/8 Surface	Formation	Legal Description: 10-34-26	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 8 5/8 24#	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth: 1615	Depth	From	To	Pre Pad	Max		5 Min.
Volume: 95	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative: Roger Pearson | Station Manager: Jerry Bennett | Treater: Jason Arrington

Service Units	31469	14719	14355	14784	19805	19801	19829				
Driver Names	M. Stegman	V. Vaquera		R. Martinez	J Arrington						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:00					On Loc
1:25					Safety Meeting
9:30					Rig up
9:46					Test Lines to 2500 PSI
9:48	200	—	105	4	Pump 230 sk A-Con
10:11	100	—	35	4	Pump 150 sk Premium Pl.
10:30					Drop Plug
10:31	200	—	—	4	Start d. P.
10:42	150	—	60	2.5	Reduce Rate
11:00	400	—	43		Land Plug, Hold Press on Plug
11:01					Release Press, Float Held
14:30	300	—	70	1.5	Pump 150 sk A-Con @ 12.2# 1" Topout
15:07					Shut down, Circ Cement to pit
15:08					Watch for Fall Back
15:45					Rig down
16:00					Leave Loc

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BASiC energy services L.P.

TREATMENT REPORT

Customer: [illegible]		Lease No.		Date: 8-17-10	
Lease: Painter		Well #: [illegible]			
Field Order #: [illegible]1028	Station: Liberal	Casing	Depth: 1530	County: Meade	State: Ks
Type Job: Z44 P+A			Formation	Legal Description: 13-33-28	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft: 170sk		Acid: 60/40 POZ - 4% Gel	RATE	PRESS	ISIP
Depth	Depth	From: 1.5	To: [illegible]	Pre Pad: 7.4 gal/sk	Max: 13.5 #/gal		5 Min.
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative: R. Pratsch | Station Manager: J. Bennett | Treater: M. Cochran

Service Units	21755	27808	[illegible]	19847	19883
Driver Names	[illegible]	Lopez		R. Chavez	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
09:00					on loc. Hold Safety Meeting
					Wait on Rig
10:00					Spot + Rig up Equip.
—					1st Plug @ 1530'
12:15		350	10	5	Start fresh H2O
12:17		300	13	5	Start Cmt 50sk @ 13.5#
12:20		100	0	5	Start fresh H2O
12:20		200	3	5	Switch to Mud
12:23		0	16	5	Shutdown + ✓ Flowback
					Knock Loose / Rig TOOH
					2nd Plug @ 700
13:14		200	10	5	Start fresh H2O
[illegible]		150	13	5	Start Cmt 50sk @ 13.5#
13:19		100	0	5	Start Disp.
13:[illegible]		0	1	0	Shutdown + ✓ Flowback
13:[illegible]					Knock Loose [illegible]
					[illegible]
13:[illegible]		[illegible]	10	[illegible]	Start fresh H2O
13:37		[illegible]	5	[illegible]	Start Cmt 20sk @ 13.5
13:38		0			Shutdown / Switch to Mouse Hole
14:00			5 / m 8 / R		Cmt w/ 20sk @ 13.5 / switch
	End 14:15				To Rat Hole cmt w/ 30sk @ 13.5 / End Job

1700 S. Country Estates • P.O. Box 129 • Liberal, KS 67905 • (620) 624-2277 • Fax (620) 624-2280

O'Brien Energy Resources, Inc.
Painter No. 1-10
Section 10, T34S, R26W

Meade County, Kansas
September, 2010

Well Summary

O'Brien Energy Resources, Incorporated, Painter No. 1-10 was drilled to a total depth of 6167' in the Mississippian Ste. Genevieve Formation without any problems. Lost circulation occurred during the drilling of the surface hole. Formation tops came in structurally high relative to the Charter Production Company, Allison No. 1-15, a little over one mile to the Southeast. The Lansing and Marmaton came in 17' high. Thinning occurred and the Atoka, Morrow and Chester ran 33, 38', and 38' high respectively.

No shows or well developed Sandstones occurred in the Morrow or Chester Formations. The only hydrocarbon show documented occurred in the Altamont member of the Marmaton Formation(5292'-5300') and consists of a Limestone: Dark to medium brown, biomicrite, finely crystalline, subchalky in part, brittle, clean, very fossiliferous and oolitic with moldic porosity, very fine isolated vuggy porosity, microsucrosic in part with trace intercrystalline porosity, brown matrix oil stain, bright mottled yellow hydrocarbon fluorescence in 5% of the samples, good streaming cut, no live oil. A 240 Unit gas increase was recorded which may partly have been left over residual gas from a 480 Unit gas kick from a hot shale just above the show interval.

This interval tests tight in the prospect area with very low volume hydrocarbon recovery and low bottom hole pressures. The moldic and vuggy porosity noted in samples is predominately isolated in nature and most likely with very low permeability.

The Painter No. 1-10 was plugged and abandoned on 8/17/10.

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, Denver, Dave Ward, Land: Gordon Beamguard
Well:	Painter No. 1-10, McKinney Field
Location:	660'FSL & 990'FEL, Section 10, 34S, R26W, Meade Co., KS
Elevation:	Ground Level 2187', Kelly Bushing 2199'
Contractor:	Duke Drilling Rig No. 6, Type: Double jacknife, triple stand, Toolpusher Rick Schollenbarger, Drillers: Terry Sortor, Danny White, Mike Brewer
Company Man:	Roger Pearson – Liberal, Kansas
Spud Date:	8/10/10
Total Depth:	8/16/10, Driller 6167', Logger 6167', Ste. Genevieve Formation
Casing Program:	36 joints of 8 5/8", J55, 24Lbs/ft, set at 1520'.
Mud Program:	Mud-Co/Service Mud, Inc. Engineer Justin Whiting, displaced system at 2700'.
Wellsite Consultant:	Peter Debenham with mudlogging trailer, Call depth new hole, Box 350, Drake, CO 80515, 720/220-4860.
Samples:	30' to TD, 10' through zones of interest. Zones of interest saved.
Electric Logs:	Weatherford, engineer L. Scott, 1) Array Induction, 2) Neuton Density, 3) Microlog
Status:	Plugged and abandoned 8/17/10.

WELL CHRONOLOGY

DATE	6 AM DEPTH	FOOTAGE	RIG ACTIVITY
8/9			Dig cellar and ditches. Move to location and rig up rotary tools. Mix spud mud. Drill mousehole and rathole.
8/10	1192'	1192'	Spud in 12 ¼" surface hole. Repair feed line. To 786' and lost ciculation. Mix mud and LCM – no returns. Dry drill to 1090' and build volume and LCM. Dry drill to 1192'. Survey(1/4 deg.).
8/11	1520'	328'	To 1520' and build volume and mix LCM. Wait on water. Circulate and build volume. Trip out and run and cement 36 joints of 8 5/8" surface casing set at 1519'. Cement through 1" down the backside at 270' with 150 sacks and wait on cement. Back out landing joint and nipple up and pressure test blind rams. Trip in and pressure test pipe ams. Drill plug and cement.
8/12	2660'	1140'	Drill plug and cement and 7 7/8" hole to 2660'. Pump repair and survey(1/4 deg.). Service rig.
8/13	3970'	1310'	Drilling.
8/14	5060'	1090'	Survey(1/2 deg.). Service rig.
8/15	5785'	725'	Circulate for samples at 5300' and 5780'.
8/16	6167'TD	382'	To 6167'TD and circulate and condition mud. Short trip 40 stands and circulate. Drop survey(1 deg.) and trip out for logs. Run logs and wait on orders.
8/17	TD		Wait on orders. Plug and abandon well. Rig down

BIT RECORD

NO.	MAKE	TYPE	SIZE	OUT	FOOTAGE	HOURS
1	STC	MXCL	12 1/4"	1520'	1520'	20 1/4
2	HTC	Q506F	7 7/8"	6167'	4647'	101
				Total Rotating Hours:		121 1/4
				Average:		50.9 Ft/hr

DEVIATION RECORD – degree

505' ¼, 2039' ¼, 2660' ½, 4476' ½, 6167' 1

MUD PROPERTIES

DATE	DEPTH	WT	VIS	PV	YP	pH	WL	CL	LCM-LBS/BBL
8/10	786'	Water							
8/11	1520'	Water							
8/13	3465'	9.15	31	2	2	7.0	N/C	11.2K	3
8/14	4742'	9.2	40	9	10	9.5	12.8	4.6K	4
8/15	5538'	9.05	66	21	20	9.0	8.4	3.7K	4
8/16	6167'	9.2	56	14	16	9.5	8.8	2.9K	4

ELECTRIC LOG FORMATION TOPS- KB Elev. 2199'

			*Allison No. 1-15	
FORMATION	DEPTH	DATUM	DATUM	POSITION
Heebner	4384'	-2185'	-2212'	+27'
Toronto	4402'	-2203'		
Lansing	4560'	-2361'	-2379'	+18'
Stark SH	5119'	-2920'		
Herthe LS	5178'	-2979'		
Marmaton	5255'	-3056'	-3072'	+16'
Altamont	5292'	-3093'	-3120'	+27'
Cherokee	5405'	-3206'	-3225'	+15'
Atoka	5596'	-3397'	-3430'	+33'
Morrow	5720'	-3521'	-3559'	+38'
Mississippi Chester	5803'	-3604'	-3642'	+38'
Ste. Genevieve	6076'	-3877'		
TD	6167'	-3968'		

*Charter Production Co., Allison No. 1-15, 496'FSL & 3687'FEL, Sec. 15 – app. 1 mile to the SE, K.B. Elev. 2274'.

LITHOLOGY DESCRIPTION

SAMPLES ARE LAGGED
CORRECTED E-LOG FORMATION TOPS
*INDICATES HYDROCARBON SHOW
Note: All depths 12' high due to pipe tally error.

Samples and gas run 3500' to no shows
4240-4355 SHALE: Dk gray medium to dark brown to gray hard blocky silty to sndy calcareous carbonaceous fossils mica occasional grdng to marly SANDSTONE: Dk mottled gray to brown hard dense clay cement calcareous carbonaceous tight no show

Heebner 4384', Toronto 4402'
4355-4420 SHALE: Blk firm fissile carbonaceous interbed with LIMESTONE: Dk brown to gray micr crpxln hard dense argillaceous to marly in part fossils tight no show

4420-4450 SHALE: Dk gray black firm sbfis to blocky carbonaceous calcareous sndy mica

4450-4475 LIMESTONE: Wh light brown buff tan micxln micsuc in part brittle clean sbchky fossils poor vis porosity no fluorescence no stain or cut

4475-4535 SHALE: Dk mottled gray gygn dark green brown firm blocky waxy

4535-4570 LIMESTONE: Brn micr crpxln hard dense clean to argillaceous poor vis porosity no fluorescence no stain or cut fossils and carbonaceous in part

Lansing 4560'
4570-4600 LIMESTONE: Lt to medium brown buff micxln micsuc in part clean to argillaceous pyrite in part fossils occasional moldic porosity trace intxln porosity no fluorescence no stain or cut

4600-4625 SHALE: Dk gray gygn blocky firm waxy

4625-4715 LIMESTONE: Lt brown buff mottled brown fine to moderately crystalline micsuc brittle clean sbchky in part fossils carbonaceous occasional intxln and moldic porosity no fluorescence no stain or cut

4715-4780 LIMESTONE: Lt brown buff mottled brown fine to moderately crystalline micsuc brittle clean sbchky in part fossils carbonaceous occasional intxln and moldic porosity no fluorescence no stain or cut occasional interbed with SHALE: Dk gray to brown firm blocky calcareous

4780-4810 LIMESTONE: Med brown micxln sucrosic brittle clean fossils oolites abt oomoldic and fine vug porosity intxln porosity no fluorescence no stain or cut

4810-4865 LIMESTONE: Med mottled brown crpxln hard dense silica clean fossils tight no show interbed with LIMESTONE: Med brown micxln sucrosic brittle clean fossils oolites abt oomoldic and fine vug porosity intxln porosity no fluorescence no stain or cut

4865-4920 SHALE: Dk gray hard blocky calcareous silty fossils interbed with LIMESTONE: Med mottled brown crpxln hard dense silica clean fossils tight no show

4920-4930 LIMESTONE: Brn micxln brittle clean very oolites with exc oomoldic porosity no fluorescence no stain or cut

4930-4980 LIMESTONE: Lt brown buff gygn micxln micsuc brittle clean sbchky in part tight/occasional trace intxln and oomoldic porosity no show

4980-5025 LIMESTONE: Med mottled brown oomicr fine crystalline micsuc in part clean brittle very fossils and oolites occasional exc moldic porosity no fluorescence no stain or cut

5025-5070 LIMESTONE: Med to dark mottled brown occasional black micr crpxln hard dense argillaceous to marly in part carbonaceous tight no show

5070-5095 LIMESTONE: Med to dark mottled brown occasional black micr crpxln hard dense argillaceous to marly in part carbonaceous tight no show

5095-5120 LIMESTONE: Med to dark brown to gray black micro to crpxln hard dense argillaceous to marly tight no show interbed with SHALE

Stark Shale 5119'
5120-5130 SHALE: Dk gray black firm sbfis to blocky carbonaceous silty

5130-5180 LIMESTONE: Med to dark brown to gray black micro to crpxln hard dense argillaceous to marly tight no show interbed with SHALE: Med to dark gray black firm sbfis carbonaceous trace LIMESTONE: Lt brown buff oomicr micxln brittle clean very oolites with moldic porosity no show

Herthe LS 5178'
5180-5215 LIMESTONE: Lt brown buff biomicr micxln brittle clean very oolites with oomoldic porosity no show

5215-5235 SHALE: Dk gray mottled hard blocky carbonaceous calcareous

5235-5255 LIMESTONE: Lt brown buff biomicr micxln brittle clean very oolites with oomoldic porosity no show interbed with SHALE: Dk gray mottled hard blocky carbonaceous calcareous

Marmaton 5255'
5255-5285 LIMESTONE: Dk mottled gray hard dense fine crystalline argillaceous to marly fossils tight no show

Altamont 5292'
5285-5300 *240 Units Gas, LIMESTONE: Dk to medium brown biomicr fine crystalline sbchky in part brittle clean very fossils and oolites occasional isol moldic porosity very fine isolated vuggy porosity micsuc in part with trace intxln porosity brown matrix oil stain bright mottled yellow hydrocarbon fluorescence(5% sample) gd strmg cut with SHALE: Blk firm sbis cab

5300-5360 LIMESTONE: Mot brown to gray crpxln hard dense sbchky in part fossils argillaceous to marly silty occasional trace moldic porosity no show interbed with SHALE: Blk firm sbfis to blocky carbonaceous

5360-5405 SHALE: Blk firm fissile carbonaceous interbed with LIMESTONE: Dk mottled brown gray crpxln hard dense fossils marly tight no show

Cherokee 5405'
5405-5480 SHALE: Blk dark gray firm sbfis carbonaceous fossils interbed with LIMESTONE: Med brown crpxln hard dense fossils silica in part clean to argillaceous tight no show Tr CHRT: Mlky brown to gray translucent hard crystalline

5480-5575 SHALE: Blk firm sbfis to blocky carbonaceous calcareous occasional fossils interbed with LIMESTONE: Mot brown gray dark brown occasional black micr crpxln hard dense silica argillaceous to marly fossils carbonaceous tight no show trace CHRT

5575-5595 LIMESTONE: Brn crpxln hard dense silica tight no show

Atoka 5596'
5595-5620 SHALE: Blk firm sbfis to blocky carbonaceous calcareous occasional fossils interbed with LIMESTONE: Mot brown gray dark brown occasional black micr crpxln hard dense silica

argillaceous to marly fossils carbonaceous tight no show trace CHRT

5620-5660 LIMESTONE: Mot brown gray dark brown occasional black micr crpxln hard dense silica argillaceous to marly fossils carbonaceous tight no show trace CHRT

5660-5720 SHALE: Blk firm sbfis to blocky carbonaceous calcareous occasional fossils interbed with LIMESTONE: Mot brown gray dark brown occasional black micr crpxln hard dense silica argillaceous to marly fossils carbonaceous tight no show trace CHRT

Morrow 5720'
5720-5746 SHALE: Blk dark gray fissile waxy carbonaceous occasional interbed with LIMESTONE: Brn dark mottled gray occasional black hard dense fine crystalline silica marly tight no show

5746-5780 Tr SANDSTONE(1% sample): Trnsl speck green clear to light gray hard dense very fine well sorted grains silica cement slightly calcareous glauconitic clean to argillaceous in part poor vis porosity no fluorescence no stain or cut with LIMESTONE: Med to dark mottled gray to brown dark gygn crpxln hard dense sndy glauconitic in part argillaceous to marly tight no show trace CHRT

5780-5805 SHALE: Blk firm sbfis carbonaceous occasional interbed with LIMESTONE: as above

Chester 5803'
5805-5860 LIMESTONE: Mot brown gray fine crystalline dense sbchky in part fossils slightly sndy and glauconitic in part pyrite in part fossils oolites carbonaceous poor vis porosity no fluorescence no stain or cut interbed with SHALE: Med gray soft waxy trace CHRT

5860-5900 LIMESTONE: Med mottled brown to gray biomicr micxln sbchky in part brittle clean to argillaceous very fossils and oolites occasional moldic porosity predominant tight no show

5900-5940 SHALE: Med to dark gray brown black firm sbfis to blocky with LIMESTONE: Dk brown mottled brown to gray fine crystalline micsuc brittle clean to argillaceous very sndy with very fine well sorted grains fossils no show

5940-5980 SHALE: Blk dark gray medium brown to gray firm sbfis to blocky waxy to sndy carbonaceous in part fossils interbed with LIMESTONE: Brn to gray fine crystalline hard dense fossils sndy tight no show

5980-6015 LIMESTONE: Mot brown gray buff speck green to yellow gygn varic in part micxln sbchky brittle clean to marly fossils sndy trace intxln and moldic porosity no fluorescence no stain or cut

6015-6045 LIMESTONE: Brn tan crpxln hard dense clean fossils tight no show

6045-6085 SHALE: Blk firm fissile carbonaceous with SHALE: Gy medium gygn to dark green brown firm blocky waxy interbed with LIMESTONE: Mot brown biomicr micxln brittle clean fossils oolites sndy slightly glauconitic trace moldic and intxln porosity no fluorescence no stain or cut

Ste. Genevieve 6076'
6085-6130 SHALE: Varic orange yellow gray to gygn light to medium green maroon varic firm blocky waxy interbed with LIMESTONE: Gy to green occasional maroon and red varic in part fine crystalline dense argillaceous fossils sndy tight no show trace SANDSTONE: Lr green gygn white clear to light brown firm friable vfl well sorted grains calcareous and clay cement poor vis porosity no

fluorescence no stain or cut

6130-6170 LIMESTONE: Lt brown buff light gray to green fine crystalline very sndy with abt varic SHALE: as above trace SANDSTONE: Clr light brown tan light gray to green slightly friable very fine well sorted rounded grains calcareous clean to marly in part poor vis porosity no show

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 Resources, Inc., Painter No. 1-10, McKinney Field
Location:	660'FSL & 990'FEL, Section 10, 34S, R26W, Meade Co., KS
Licence Number:	API: 15-119-21262 Region: Hougoton
Spud Date:	8/10/10 Drilling Completed:
Surface Coordinates:	660'FSL & 990'FEL, Section 10, 34S, R26W, Meade Co., KS
Bottom Hole Coordinates:	660'FSL & 990'FEL, Section 10, 34S, R26W, Meade Co., KS
Ground Elevation (ft):	2187' K.B. Elevation (ft): 2199'
Logged Interval (ft):	3500' To: TD Total Depth (ft): 6167'
Formation:	Lansing, Morrow, Chester, Ste Genevieve
Type of Drilling Fluid:	Chemical Gel/LSND/LCM, mud up 2700'.

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

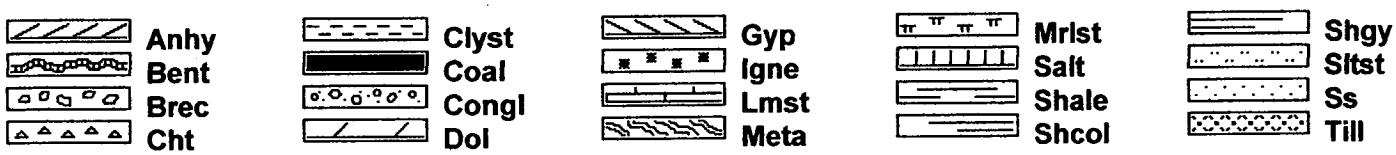
GEOLOGIST

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. 6, T.P. Rick Schollenbarger, Drillers Terry Sorter, Danny White, Mike Brewer, 36 joints of 8 5/8", J55, 24Lbs/ft, set at 1474'. Weatherford engineer L. Scott, Service Mud Mudco, engineer Justin Whiting, plugged and abandoned 8/17/10.

ROCK TYPES



ACCESSORIES

FOSSIL
- Algae
- Amph
- Belm
- Biocist
- 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
- Ssstrg

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

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

OTHER SYMBOLS

INTERVALS
- Core
- Dst

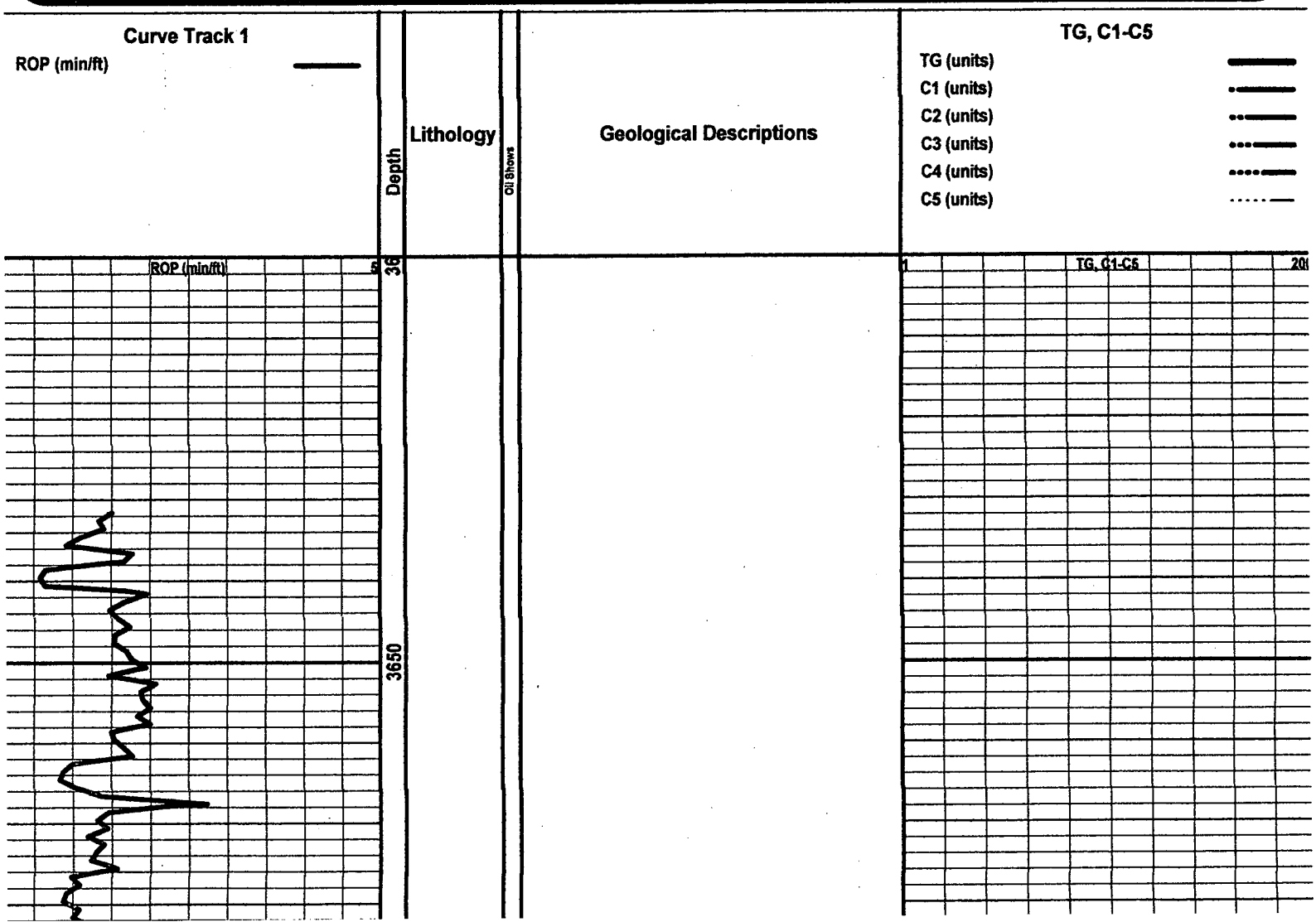
EVENTS
- Rft
- Sidewall

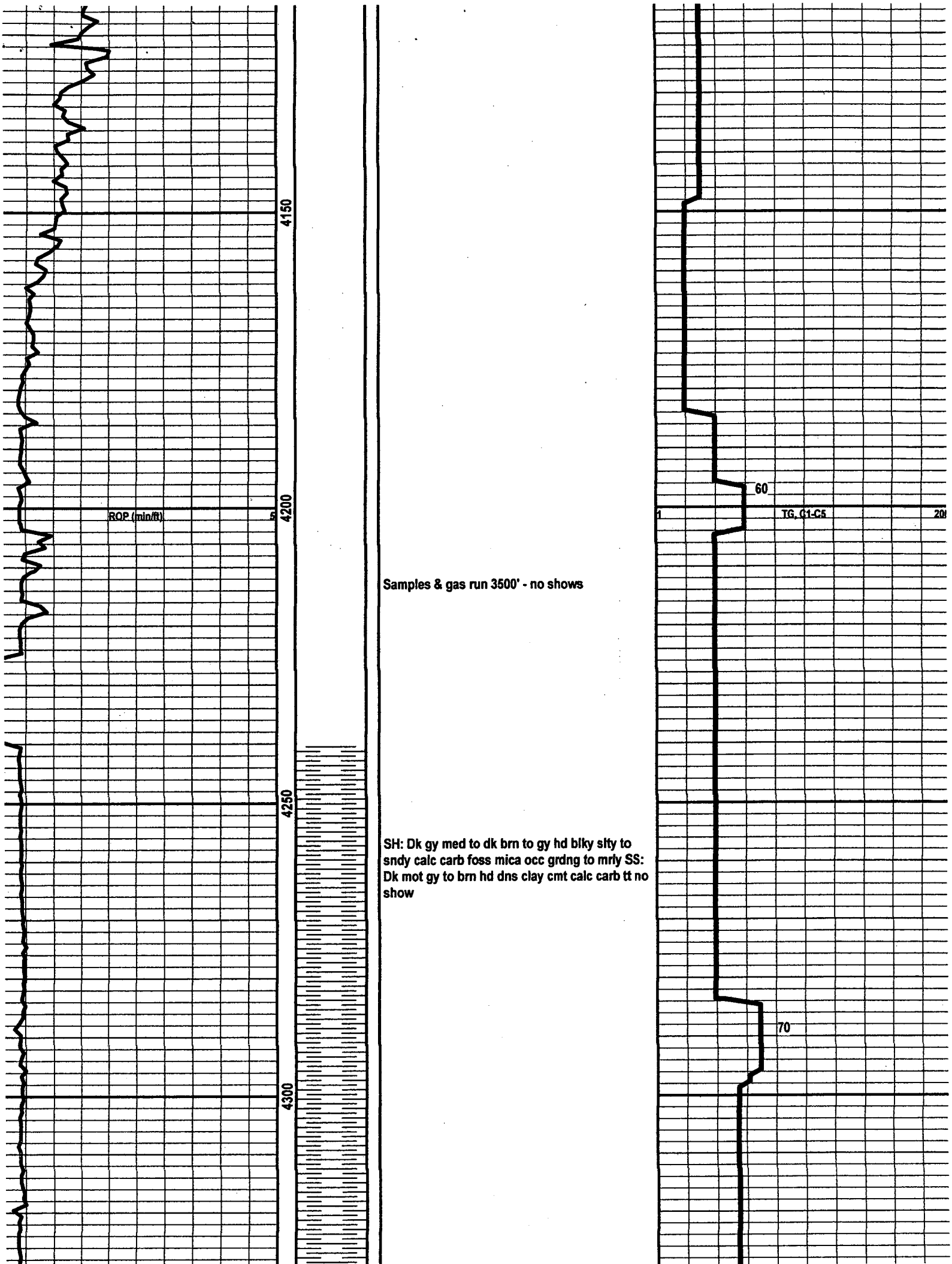
POROSITY TYPE
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

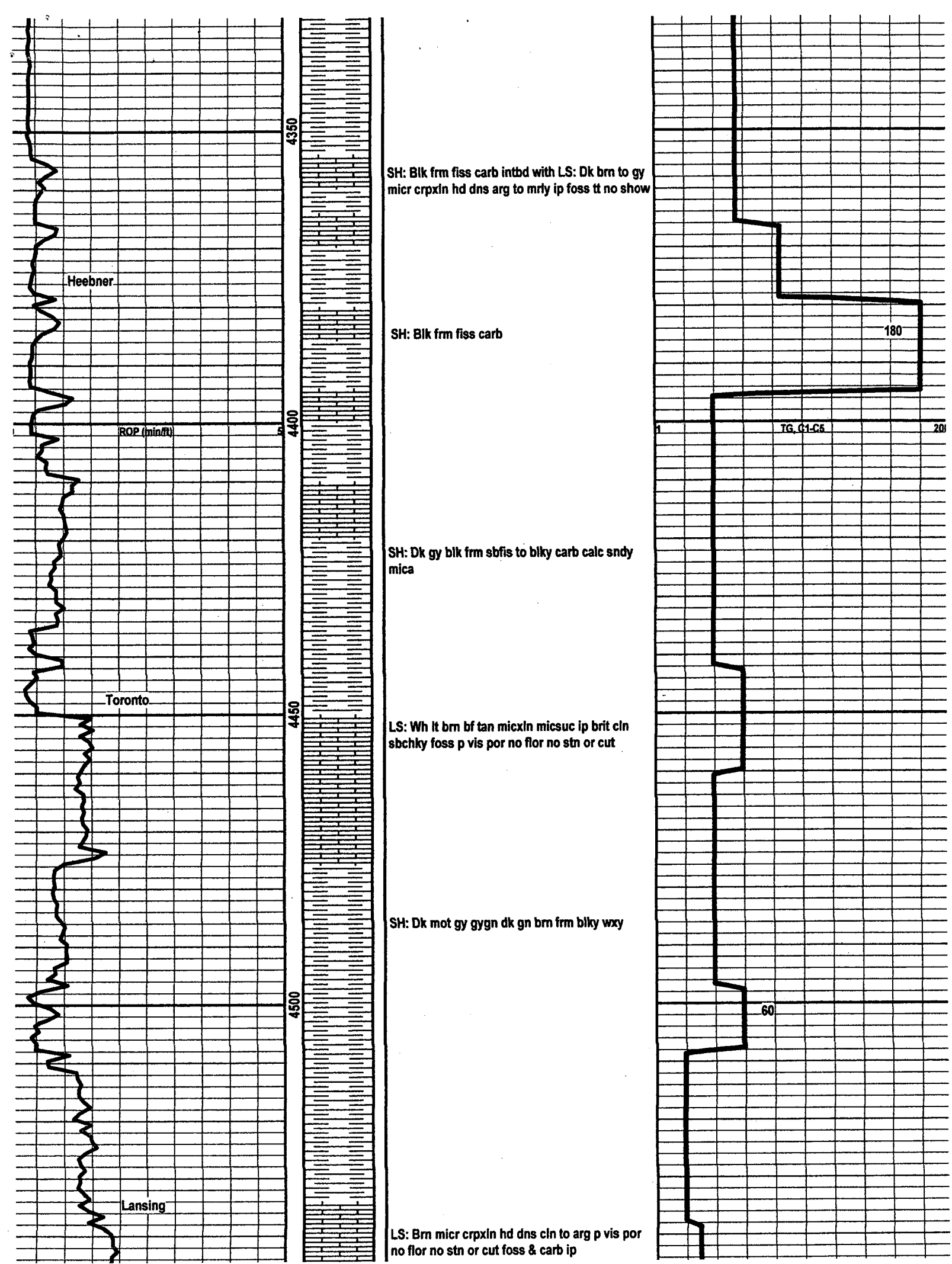
SORTING
- Well
- Moderate
- Poor

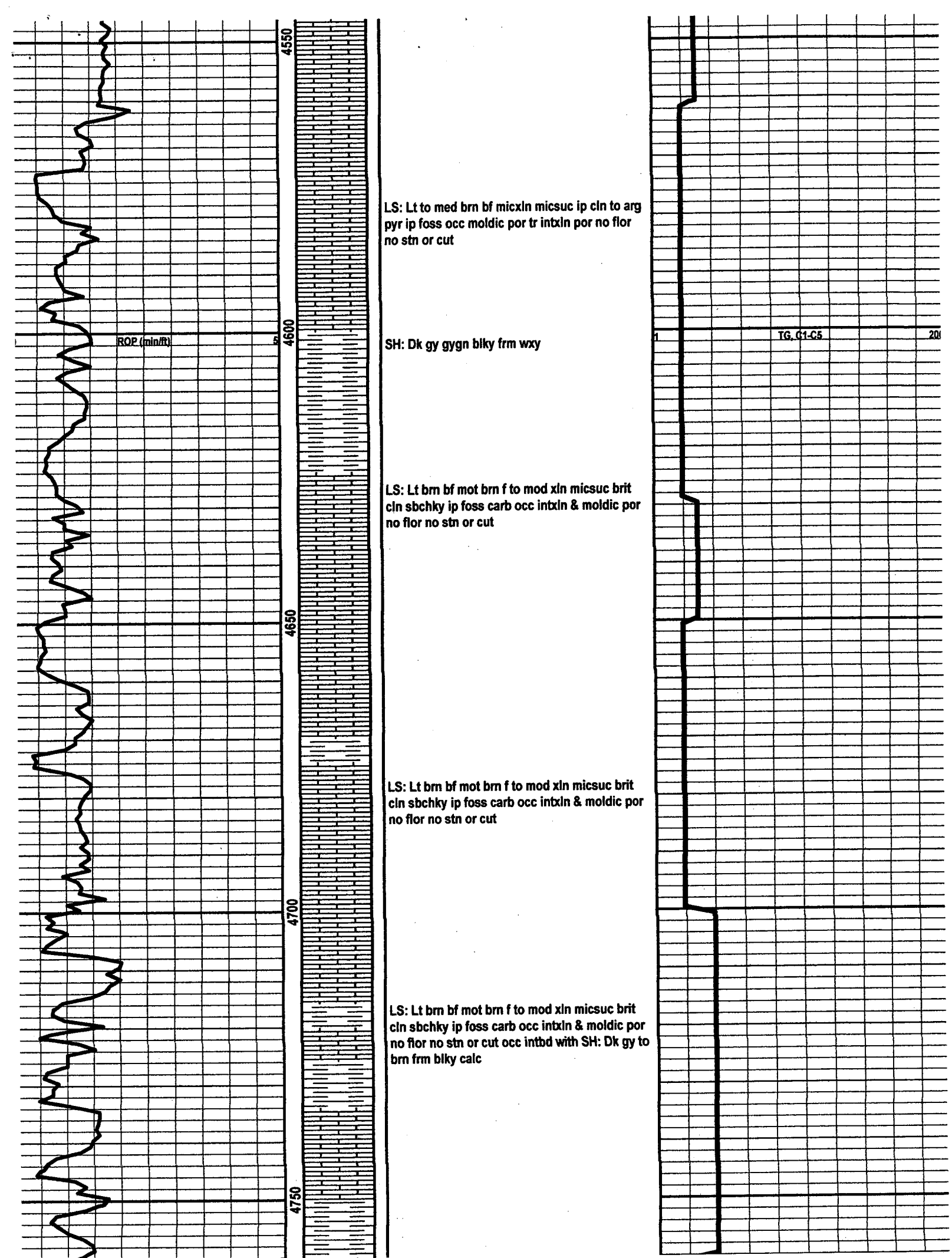
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

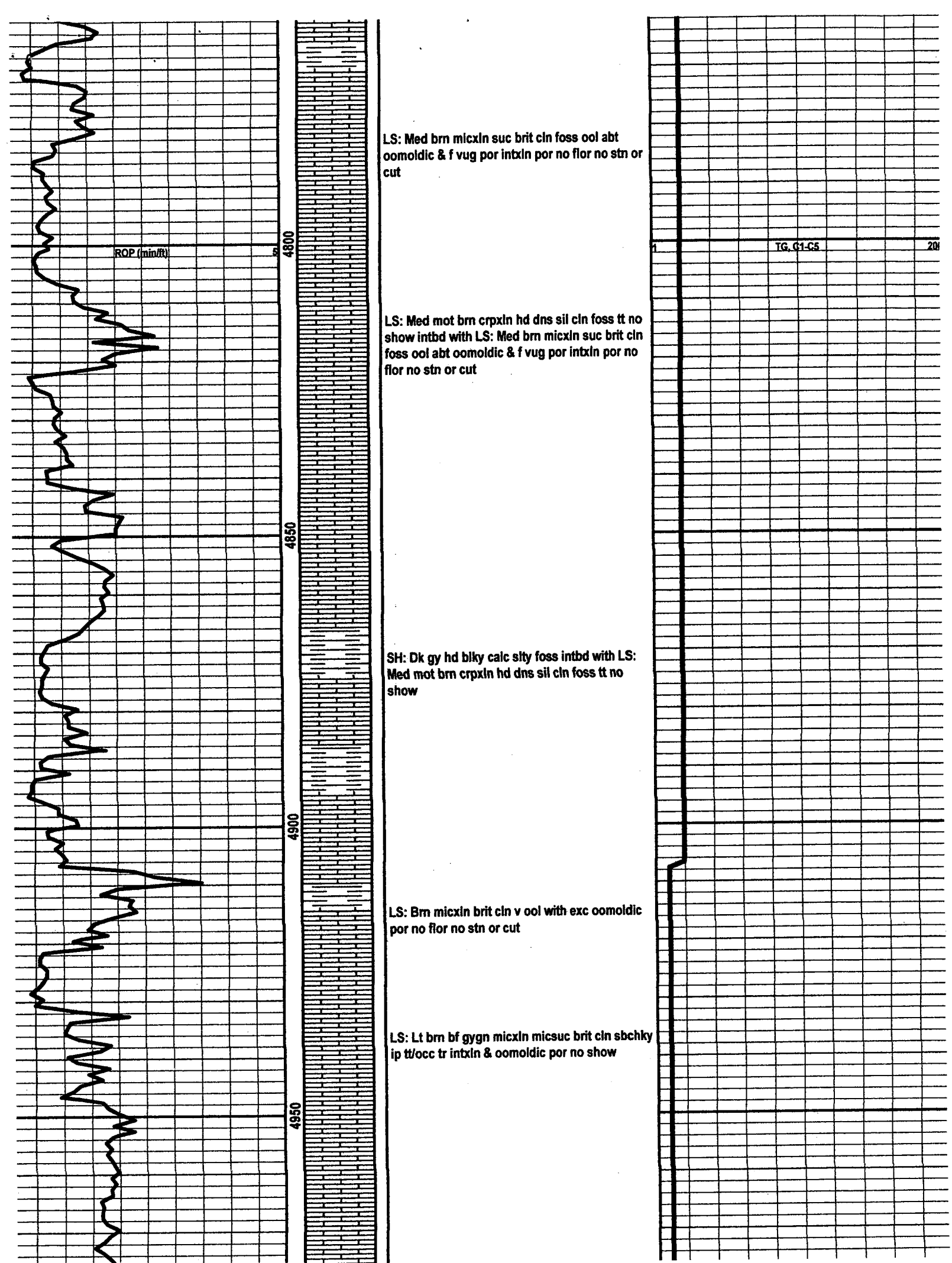
OIL SHOWS
- Even
- Spotted
- Ques
- Dead

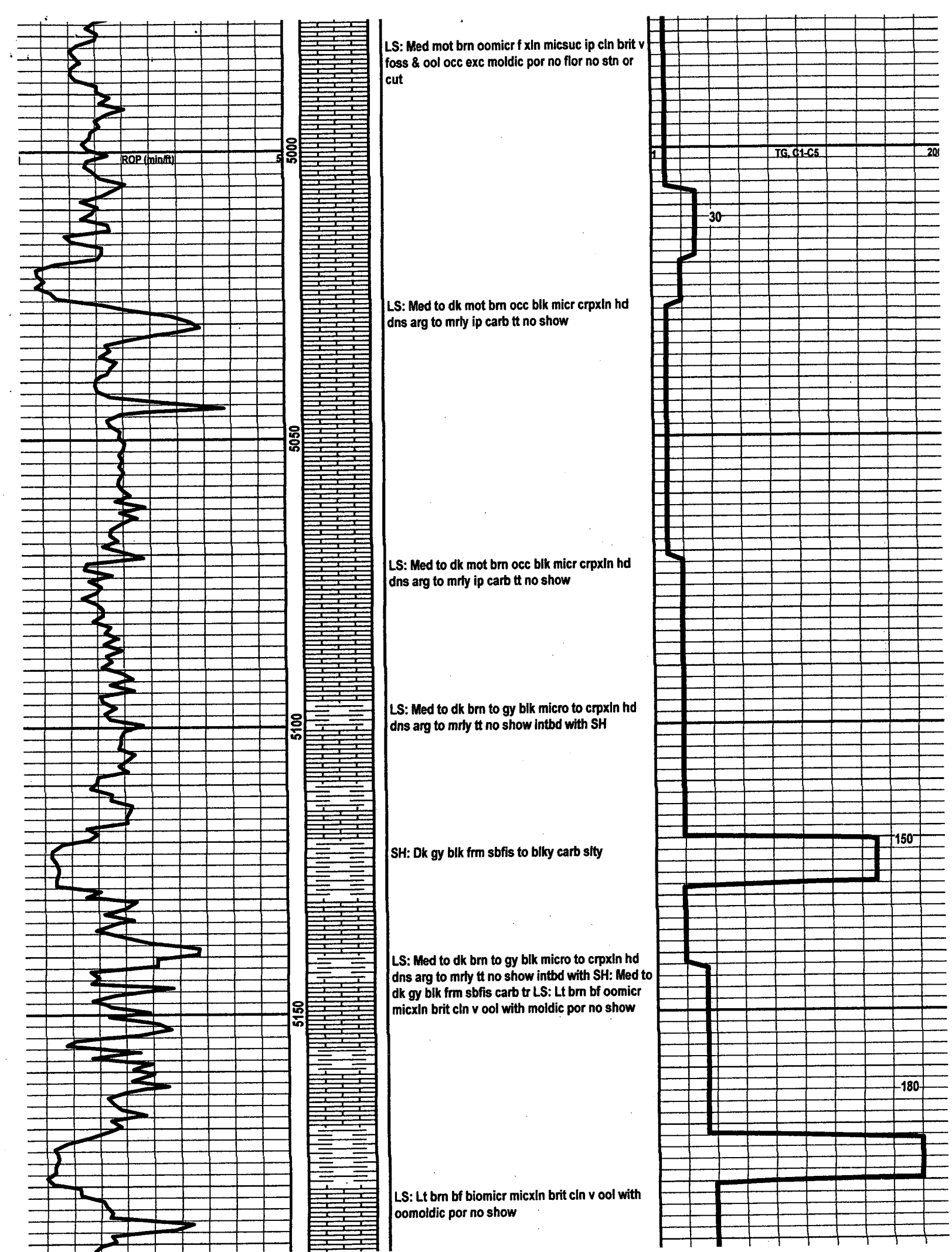


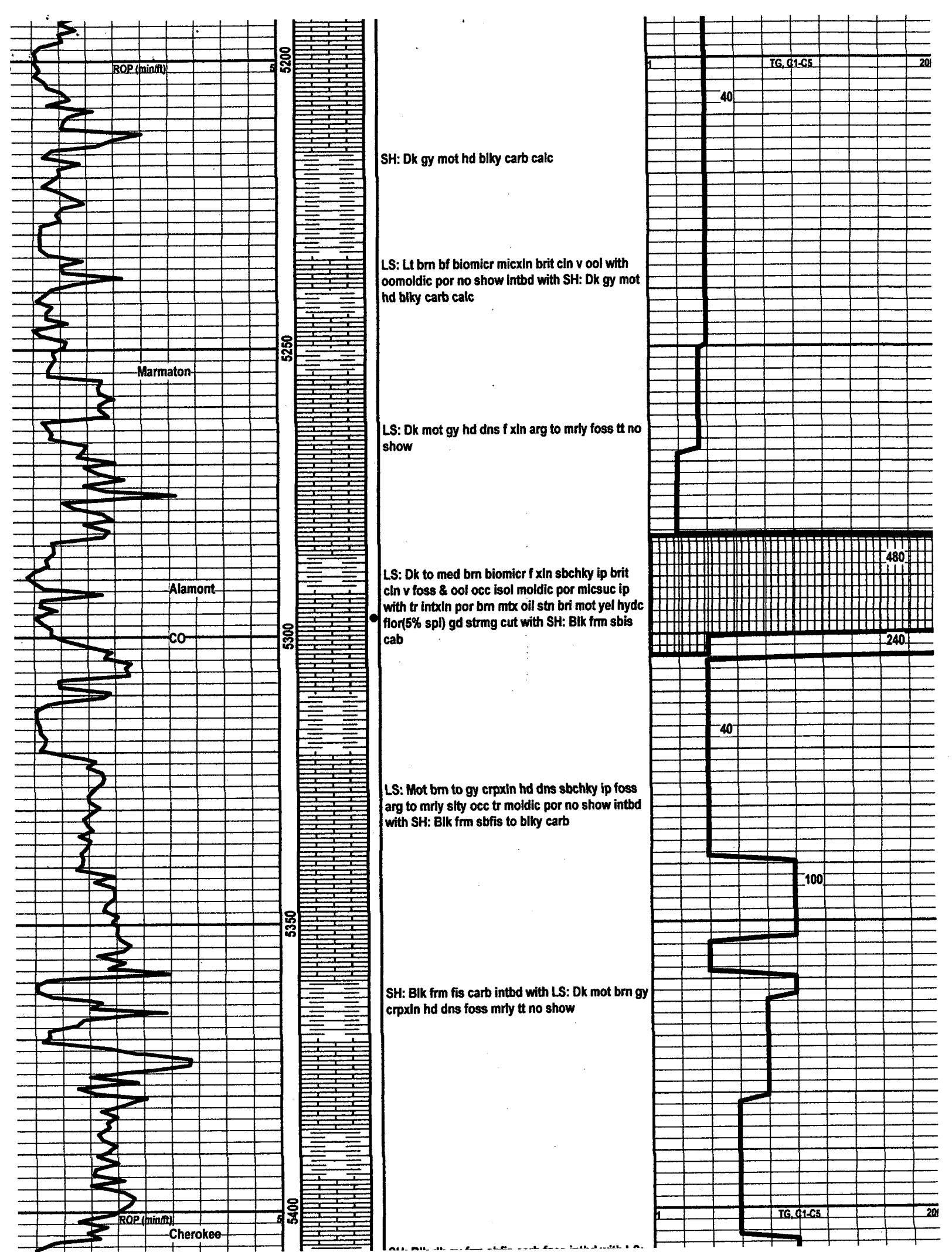

4150
4200
4250
4300
ROP (min/ft)
5
Samples & gas run 3500' - no shows
SH: Dk gy med to dk brn to gy hd blky slty to sndy calc carb foss mica occ grdng to mrly SS: Dk mot gy to brn hd dns clay cmt calc carb tt no show
60
1
TG, C1-C5
70

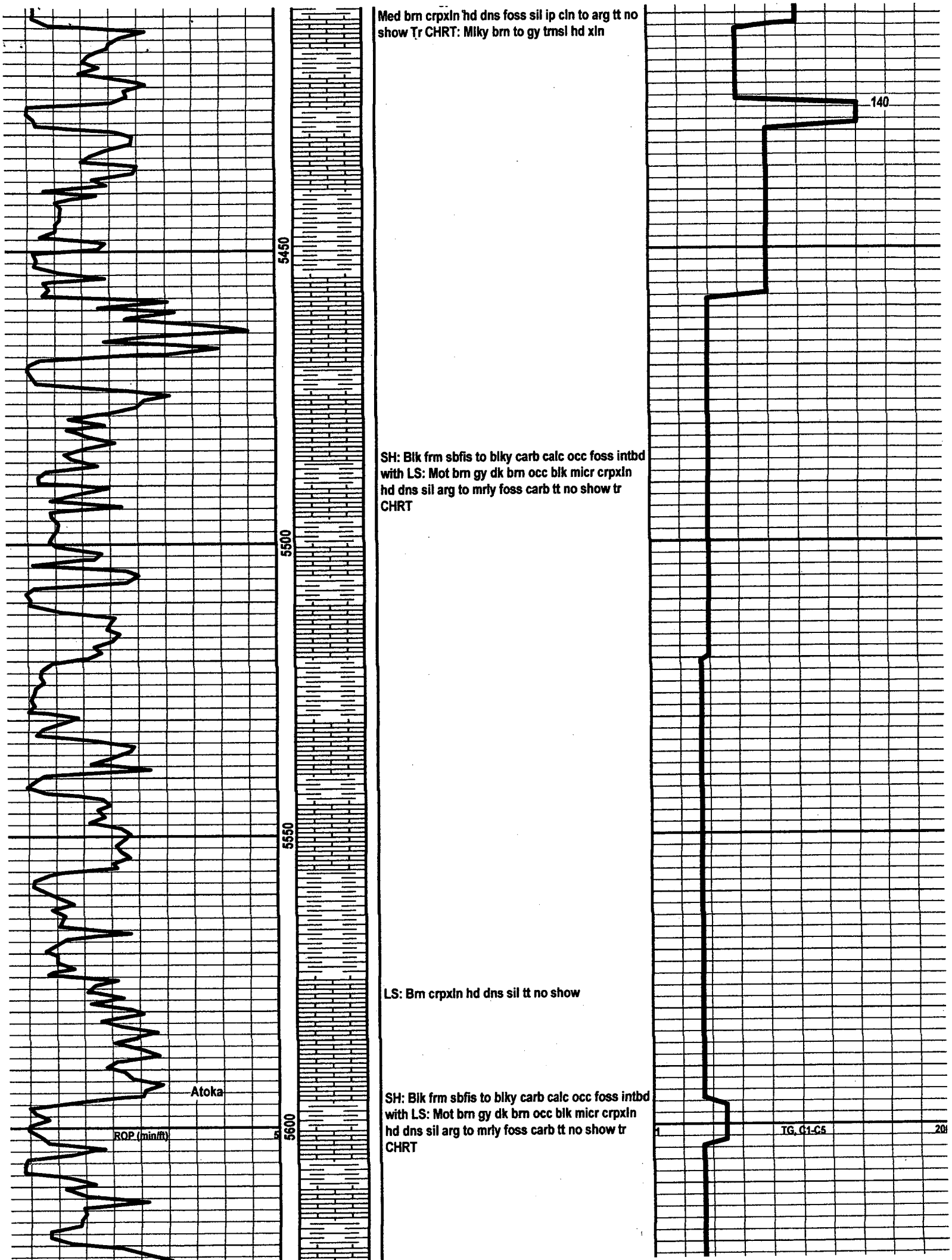

Heebner
Toronto
Lansing
ROP (min/ft)
5
4350
4400
4450
4500
SH: Blk frm fiss carb intbd with LS: Dk brn to gy micr crpxln hd dns arg to mrly ip foss tt no show
SH: Blk frm fiss carb
SH: Dk gy blk frm sbfis to blky carb calc sndy mica
LS: Wh lt brn bf tan micxln micsuc ip brit cln sbchky foss p vis por no flor no stn or cut
SH: Dk mot gy gygn dk gn brn frm blky wxy
LS: Brn micr crpxln hd dns cln to arg p vis por no flor no stn or cut foss & carb ip
180
1
TG, C1-C5
60

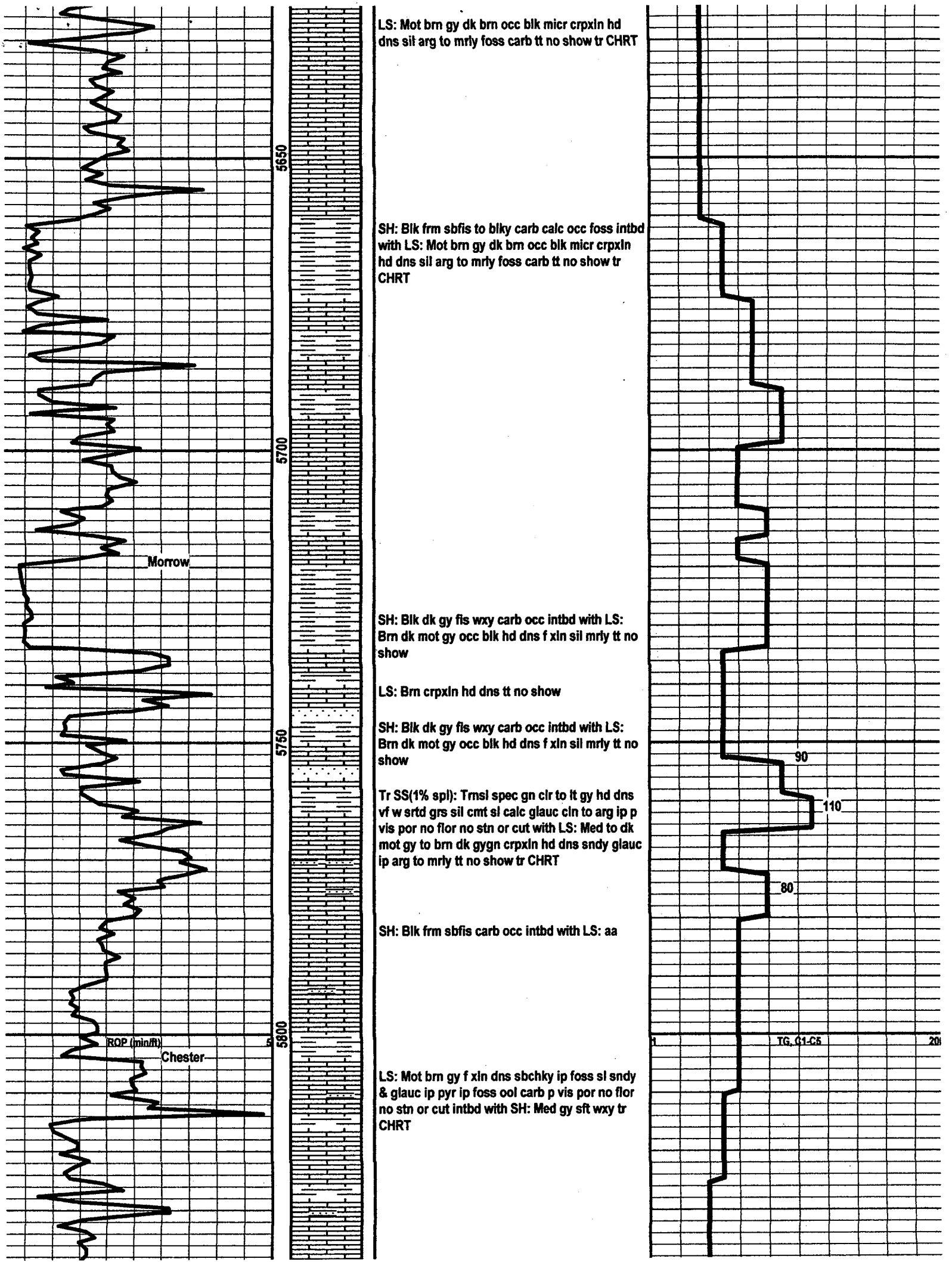

4550
4600
4650
4700
4750
ROP (min/ft)
5
1
TG, C1-C5
20(
LS: Lt to med brn bf micxln micsuc ip cln to arg pyr ip foss occ moldic por tr intxln por no flor no stn or cut
SH: Dk gy gygn blky frm wxy
LS: Lt brn bf mot brn f to mod xln micsuc brit cln sbchky ip foss carb occ intxln & moldic por no flor no stn or cut
LS: Lt brn bf mot brn f to mod xln micsuc brit cln sbchky ip foss carb occ intxln & moldic por no flor no stn or cut
LS: Lt brn bf mot brn f to mod xln micsuc brit cln sbchky ip foss carb occ intxln & moldic por no flor no stn or cut occ intbd with SH: Dk gy to brn frm blky calc

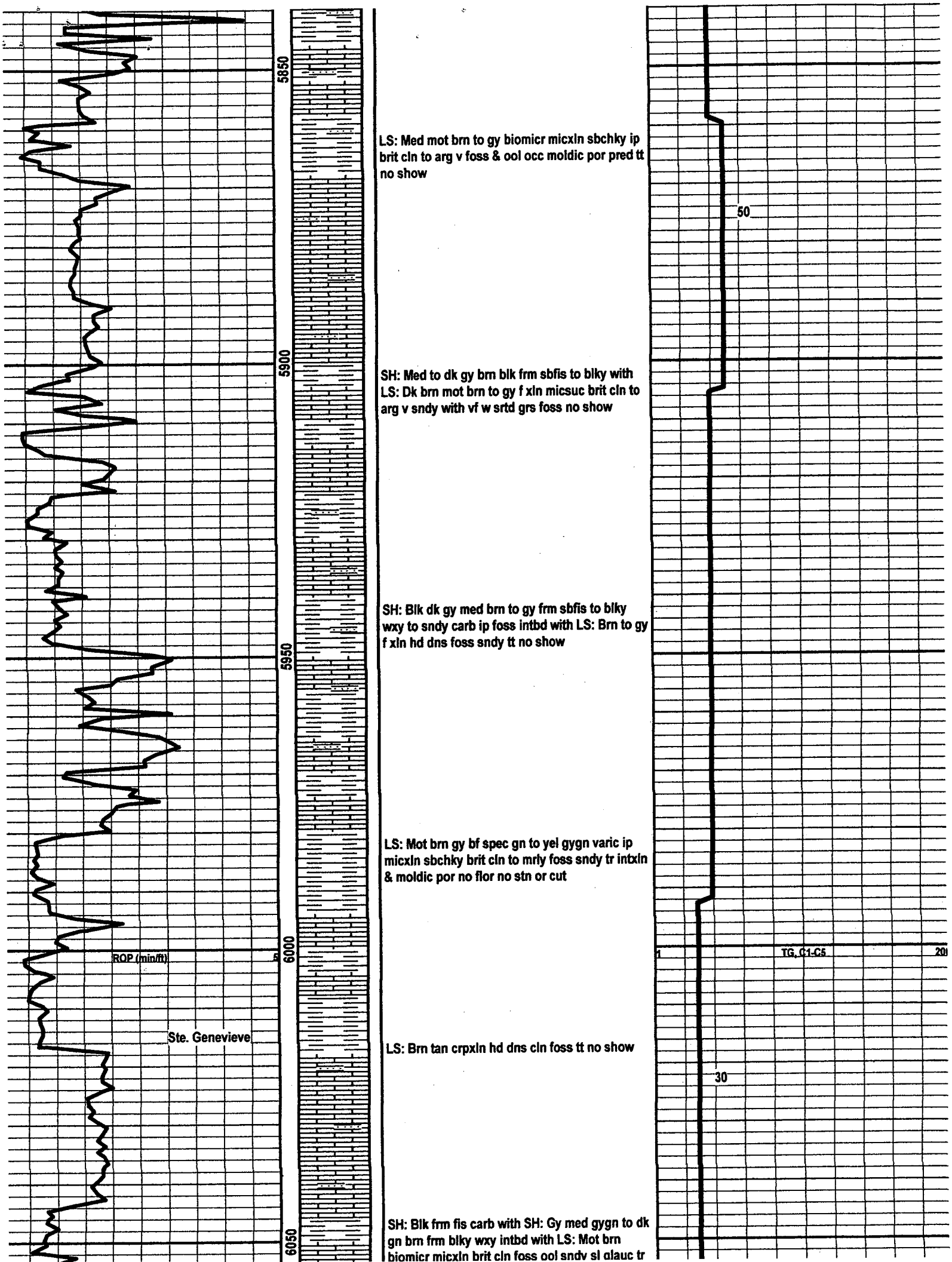

ROP (min/ft)
4800
4850
4900
4950
TG, C1-C5
LS: Med brn micxln suc brit cln foss ool abt oomoldic & f vug por intxln por no flor no stn or cut
LS: Med mot brn crpxln hd dns sil cln foss tt no show intbd with LS: Med brn micxln suc brit cln foss ool abt oomoldic & f vug por intxln por no flor no stn or cut
SH: Dk gy hd blky calc slty foss intbd with LS: Med mot brn crpxln hd dns sil cln foss tt no show
LS: Brn micxln brit cln v ool with exc oomoldic por no flor no stn or cut
LS: Lt brn bf gygn micxln micsuc brit cln sbchky ip tt/occ tr intxln & oomoldic por no show

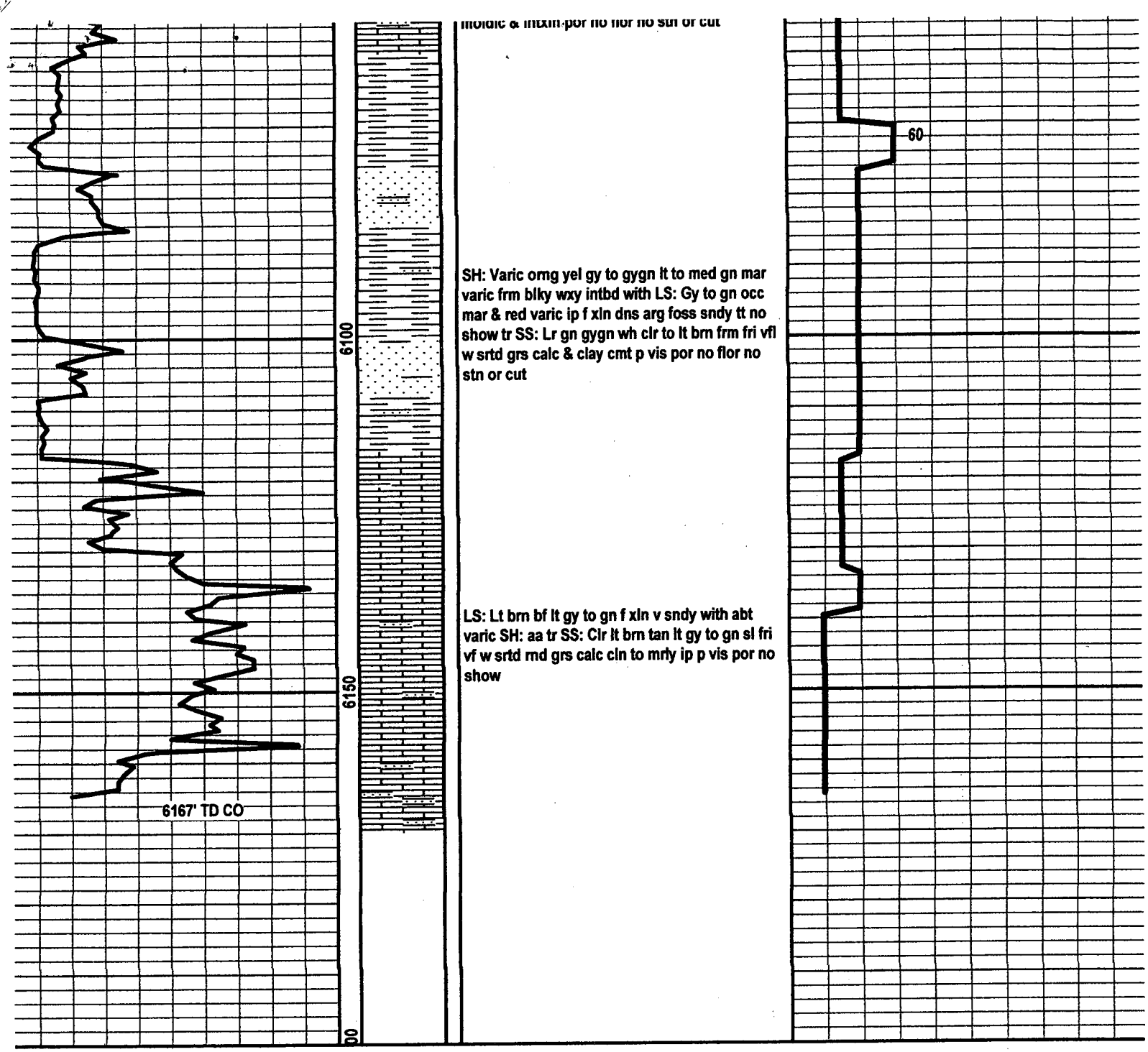

ROP (min/ft)
5
5000
5050
5100
5150
LS: Med mot brn oomicr f xln micsuc ip cln brit v foss & ool occ exc moldic por no flor no stn or cut
LS: Med to dk mot brn occ blk micr crpxln hd dns arg to mrly ip carb tt no show
LS: Med to dk mot brn occ blk micr crpxln hd dns arg to mrly ip carb tt no show
LS: Med to dk brn to gy blk micro to crpxln hd dns arg to mrly tt no show intbd with SH
SH: Dk gy blk frm sbfis to blky carb slty
LS: Med to dk brn to gy blk micro to crpxln hd dns arg to mrly tt no show intbd with SH: Med to dk gy blk frm sbfis carb tr LS: Lt brn bf oomicr micxln brit cln v ool with moldic por no show
LS: Lt brn bf biomicr micxln brit cln v ool with oomoldic por no show
1
TG, C1-C5
20
30
150
180


ROP (min/ft)
5
5200
5250
5300
5350
5400
Marmaton
Alamont
CO
Cherokee
ROP (min/ft)
5
SH: Dk gy mot hd blky carb calc
LS: Lt brn bf biomicr micxln brit cln v ool with oomoldic por no show intbd with SH: Dk gy mot hd blky carb calc
LS: Dk mot gy hd dns f xln arg to mrly foss tt no show
LS: Dk to med brn biomicr f xln sbchky ip brit cln v foss & ool occ isol moldic por micsuc ip with tr intxln por brn mtx oil stn bri mot yel hydc flor(5% spl) gd strmg cut with SH: Blk frm sbis cab
LS: Mot brn to gy crpxln hd dns sbchky ip foss arg to mrly slty occ tr moldic por no show intbd with SH: Blk frm sbfis to blky carb
SH: Blk frm fis carb intbd with LS: Dk mot brn gy crpxln hd dns foss mrly tt no show
1
TG, C1-C5
20
40
480
240
40
100
1
TG, C1-C5
20


Med brn crpxln hd dns foss sil ip cln to arg tt no show Tr CHRT: Mlky brn to gy trnsl hd xln
140
5450
SH: Blk frm sbfis to blky carb calc occ foss intbd with LS: Mot brn gy dk brn occ blk micr crpxln hd dns sil arg to mrly foss carb tt no show tr CHRT
5500
5550
LS: Brn crpxln hd dns sil tt no show
Atoka
SH: Blk frm sbfis to blky carb calc occ foss intbd with LS: Mot brn gy dk brn occ blk micr crpxln hd dns sil arg to mrly foss carb tt no show tr CHRT
5600
ROP (min/ft)
TG, C1-C5


LS: Mot brn gy dk brn occ blk micr crpxln hd dns sil arg to mrly foss carb tt no show tr CHRT
SH: Blk frm sbfis to blky carb calc occ foss intbd with LS: Mot brn gy dk brn occ blk micr crpxln hd dns sil arg to mrly foss carb tt no show tr CHRT
SH: Blk dk gy fis wxy carb occ intbd with LS: Brn dk mot gy occ blk hd dns f xln sil mrly tt no show
LS: Brn crpxln hd dns tt no show
SH: Blk dk gy fis wxy carb occ intbd with LS: Brn dk mot gy occ blk hd dns f xln sil mrly tt no show
Tr SS(1% spl): Trnsl spec gn clr to lt gy hd dns vf w srtd grs sil cmt sl calc glauc cln to arg ip p vis por no flor no stn or cut with LS: Med to dk mot gy to brn dk gygn crpxln hd dns sndy glauc ip arg to mrly tt no show tr CHRT
SH: Blk frm sbfis carb occ intbd with LS: aa
LS: Mot brn gy f xln dns sbchky ip foss sl sndy & glauc ip pyr ip foss ool carb p vis por no flor no stn or cut intbd with SH: Med gy sft wxy tr CHRT
5650
5700
5750
5800
Morrow
Chester
ROP (min/ft)
TG, C1-C5
90
110
80


5850
5900
5950
6000
6050
ROP (min/ft)
Ste. Genevieve
LS: Med mot brn to gy biomicr micxln sbchky ip brit cln to arg v foss & ool occ moldic por pred tt no show
SH: Med to dk gy brn blk frm sbfis to blky with LS: Dk brn mot brn to gy f xln micsuc brit cln to arg v sndy with vf w srtd grs foss no show
SH: Blk dk gy med brn to gy frm sbfis to blky wxy to sndy carb ip foss intbd with LS: Brn to gy f xln hd dns foss sndy tt no show
LS: Mot brn gy bf spec gn to yel gygn varic ip micxln sbchky brit cln to mrly foss sndy tr intxln & moldic por no flor no stn or cut
LS: Brn tan crpxln hd dns cln foss tt no show
SH: Blk frm fis carb with SH: Gy med gygn to dk gn brn frm blky wxy intbd with LS: Mot brn biomicr micxln brit cln foss ool sndy sl glauc tr
50
30
TG, C1-C5


moldic & intxln por no flor no stn or cut
SH: Varic orng yel gy to gygn lt to med gn mar varic frm blky wxy intbd with LS: Gy to gn occ mar & red varic ip f xln dns arg foss sndy tt no show tr SS: Lr gn gygn wh clr to lt brn frm fri vfl w srtd grs calc & clay cmt p vis por no flor no stn or cut
LS: Lt brn bf lt gy to gn f xln v sndy with abt varic SH: aa tr SS: Clr lt brn tan lt gy to gn sl fri vf w srtd rnd grs calc cln to mrly ip p vis por no show
6100
6150
6167' TD CO
60