



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1156357
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: _____



1156357

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> _____
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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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Meyer 1-21
Doc ID	1156357

Tops

Name	Top	Datum
Heebner	4402	-1674
Toronto	4426	-1698
Lansing	4544	-1816
Marmaton	5193	-2456
Cherokee	5412	-2684
Atoka	5621	-2893
Morrow	5746	-3018
Chester	5888	-3160
Ste. Genevieve	6092	-3364
St. Louis	6282	-3554

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 10, 2013

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

Re: ACO1
API 15-119-21341-00-00
Meyer 1-21
NW/4 Sec.21-33S-30W
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,

Joseph Forma
Vice President
O'Brien Energy Resources Corp.

O'Brien Energy Resources, Inc.

Meyer No. 1-21

Section 21, T33S, R30W

Meade County, Kansas

July, 2013

Well Summary

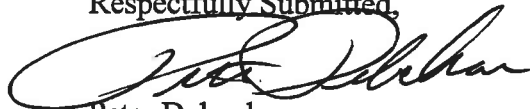
The Meyer No. 1-21 was drilled to a total depth of 6400' in the St. Louis in 90 hours for a fast average of 71 feet/hour. It offset the City Service, Meyer 2E by approximately 1880' to the SE. Formation tops came low relative to this offset. The Heebner ran 20' low. Thickening occurred consistently to total depth. The Lansing, Marmaton and Cherokee ran 22', 47' and 70' low respectively. The Atoka, Morrow and Chester ran 79', 86' and 98' low and the Ste. Genevieve came in 108' low.

The Morrow "B" Sandstone(5798'-5808') consists of a Sandstone in 6% of the samples – Medium mottled brown, hard to friable in part, fine upper to medium lower, well sorted subround grains, siliceous and some clay cement, glauconitic, micaceous, carbonaceous inclusions, fair visible intergranular and vuggy porosity, pale light blue and occasionally yellow fluorescence in all the sandstone, fair to good streaming cut, brown matrix oil stain and trace live oil and gas bubbles when crushed, show somewhat dissipates when dried. A 220 Unit gas kick was documented. 20% porosity is noted on logs. It could be that a true representative sample of this intervals may not have been collected in the sample box as what was noted was relatively tight and did not represent 20% porosity.

A 720 Unit gas kick occurred in the Toronto(4426'-4440') and consists of a biomicrite Limestone with intercrystalline and moldic porosity. No show was documented. Another interesting interval is noted in the Toronto(4474'-4483') and with an associated gas increase of 150 Units.

4 ½" production casing was run on the Meyer No. 1-21 on 7/17/13 to production test the above mentioned shows.

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, Dave Ward

Well: Meyer No. 1-21

API No.: 15-119-21341

Location: 1980' FNL & 660' FWL, Section 21, T33S, R30W, Meade County, Kansas – South of Plains.

Elevation: Ground Level 2716', Kelly Bushing 2728'

Contractor: Duke Drilling Rig No. 6, Type: Double jackknife, triple stand, Toolpusher Jose Gonzales, Drillers: Danny White, Richard TaFoya, Darryl LaRoche, Saul Garcia

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 7/11/2013

Total Depth: 7/16/2013, Driller 6400', Logger 6398', St. Louis Fm.

Casing Program: 39 joints of 8 5/8", J55, 24Lbs/ft, set at 1495'. 4 1/2" production casing to TD.

Mud Program: Mud Co./Service Mud Inc., Engineer Justin Whiting, mud up 2600'.

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

Samples: 30' to 5700', 20' to TD and 10' through zones of interest. Dry sample cut sent to KGS Sample Log Library – Wichita, KS.

Electric Logs: Weatherford, engineer Adam Sill, 1) Array Induction, 2) Photo Density/Neurton, 3) Microlog – High Res. repeat section.

Status: 4 1/2 " production casing to TD on 7/17/2013.

WELL CHRONOLOGY

10 PM
DATE DEPTH

FOOTAGE

RIG ACTIVITY

7/10			Move to location and rig up. Mix spud mud and drill rat hole and mouse hole.
7/11	1495'	1495'	Spud in 12 1/4" surface hole to 1495' and circulate. Run surveys (1/4, 1/2 deg.). Drop survey(1 3/4 deg.) and trip out and run and cement 8 5/8" casing set at 1495'.
7/12	2330'	835'	Cement did circulate. Pick up drill pipe and back off end joint and nipple up BOP and test blind rams(150 – 1000 Lbs). Trip in and test pipe rams. Drill plug and cement and 7 7/8" to 2330'. Survey(1 deg.). Change out swivel packing.
7/13	4080'	1750'	Displace mud system at 2600' and service rig. Clean suction and survey(1 deg.).
7/14	4998'	918'	Clean suction and grease draw works and survey(1 deg.). To 4998' and circulate and wiper trip 36 stands and circulate – pull tight.
7/15	5950'	952'	Trip in with wiper trip. Survey(1 deg.) and rig service.
7/16	6400'TD	450'	To 4600'TD and circulate. Wiper trip 41 stands and circulate. Drop survey(1 deg.) and trip out and run Elogs. Unload casing.
7/17	TD		Trip in and circulate. Trip out laying down and run and cement 4 1/2" 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	JZ	IPGC	12 1/4"	1495'	1495'	11
2		Mi616	7 7/8"	6400'	4905'	78 3/4
Total Rotating Hours:						89 3/4
Average:						71.31 ft/hr

DEVIATION RECORD - degree

493' 1/4, 929' 1/2, 1495' 1 3/4, 2153' 1, 3112' 3/4, 3747' 1, 5312' 1, 5876' 1, td 1

MUD PROPERTIES

<u>DATE</u>	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>WL</u>	<u>pH</u>	<u>CL</u>	<u>LCM-LBS/BBL</u>
7/10	Make up water								
7/11	1210'	8.8	28	3	5	n/c	7.0	1400	4
7/12	1591'	8.8	28	1	2	n/c	7.0	16.8k	0
7/13	3153'	9.1	35	5	9	n/c	7.0	8.8k	1
7/14	4896'	9.3	51	15	17	10.4	9.0	7.1k	2
7/15	5490'	9.1	47	14	14	8.8	10.5	6.1k	2
7/16	6400'TD	9.3	55	17	21	8.4	10.5	5.5	2

ELECTRIC LOG FORMATION TOPS- KB Elev. 2728''

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Meyer 2E DATUM</u>	<u>POSITION</u>
Surface casing	1495'			
Heebner	4402'	-1674'	-1654'	-20'
Toronto	4426'	-1698'	-1680'	-18'
Lansing	4544'	-1816'	-1794'	-22'
Marmaton	5193'	-2456'	-2418'	-47'
Cherokee	5412'	-2684'	-2614'	-70'
Atoka	5621'	-2893'	-2814'	-79'
Morrow	5746'	-3018'	-2932'	-86'
Mississippi Chester	5888'	-3160'	-3062'	-98'
Ste. Genevieve	6092'	-3364'	-3256'	-108'
St. Louis	6282'	-3554'	NDE	
TD	6400'			

*City Service, Meyer 2E, SW NE NE, sec. 20 – app. 1800' to the NW., K.B. Elev. 2728'

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: O'Brien Energy Resources, Meyer No. 1-21
Location: 1980'FNL & 660FWL, Section 21, 33S, R30W, Meade Co., KS
Licence Number: API: 15-119-21341 Region: Hougaton
Spud Date: 7/11/13 Drilling Completed: 7/16/13
Surface Coordinates: 1980'FNL & 660FWL, Section 21, 33S, R30W, Meade Co., KS
Bottom Hole Coordinates: 1980'FNL & 660FWL, Section 21, 33S, R30W, Meade Co., KS
Ground Elevation (ft): 2716' K.B. Elevation (ft): 2728'
Logged Interval (ft): 4200' To: TD Total Depth (ft): 6413'
Formation: Lansing, Marmaton, Morrow, Chester, St. Louis
Type of Drilling Fluid: Chemical Gel/LSND/LCM, displaced 3600'

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

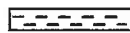

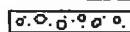
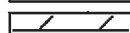
Name: Wellsite: Peter Debenham
Company: Petrolific Consulting Services
Address: P.O. Box 350
Drake, CO 80515
720/220-4860, Petrolific@gmail.com



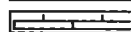

Comments

Drilling engineer Roger Pearson, Duke Drilling Rig No. 6, T.P. Jose Gonzales, Weatherford logs engineer Adam Sill, Service Mud engineer Justin Whiting, 8 5/8" set to 1495', 4 1/2" production casing to TD.

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht

 Clyst
 Coal
 Congl
 Dol

 Gyp
 Igne
 Lmst
 Meta

 Mrlst
 Salt
 Shale
 Shcol

 Shgy
 Slstt
 Ss
 Till

ACCESSORIES

FOSSIL

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

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

MINERAL

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

- Chtdk
- 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
- Slstgr

- 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

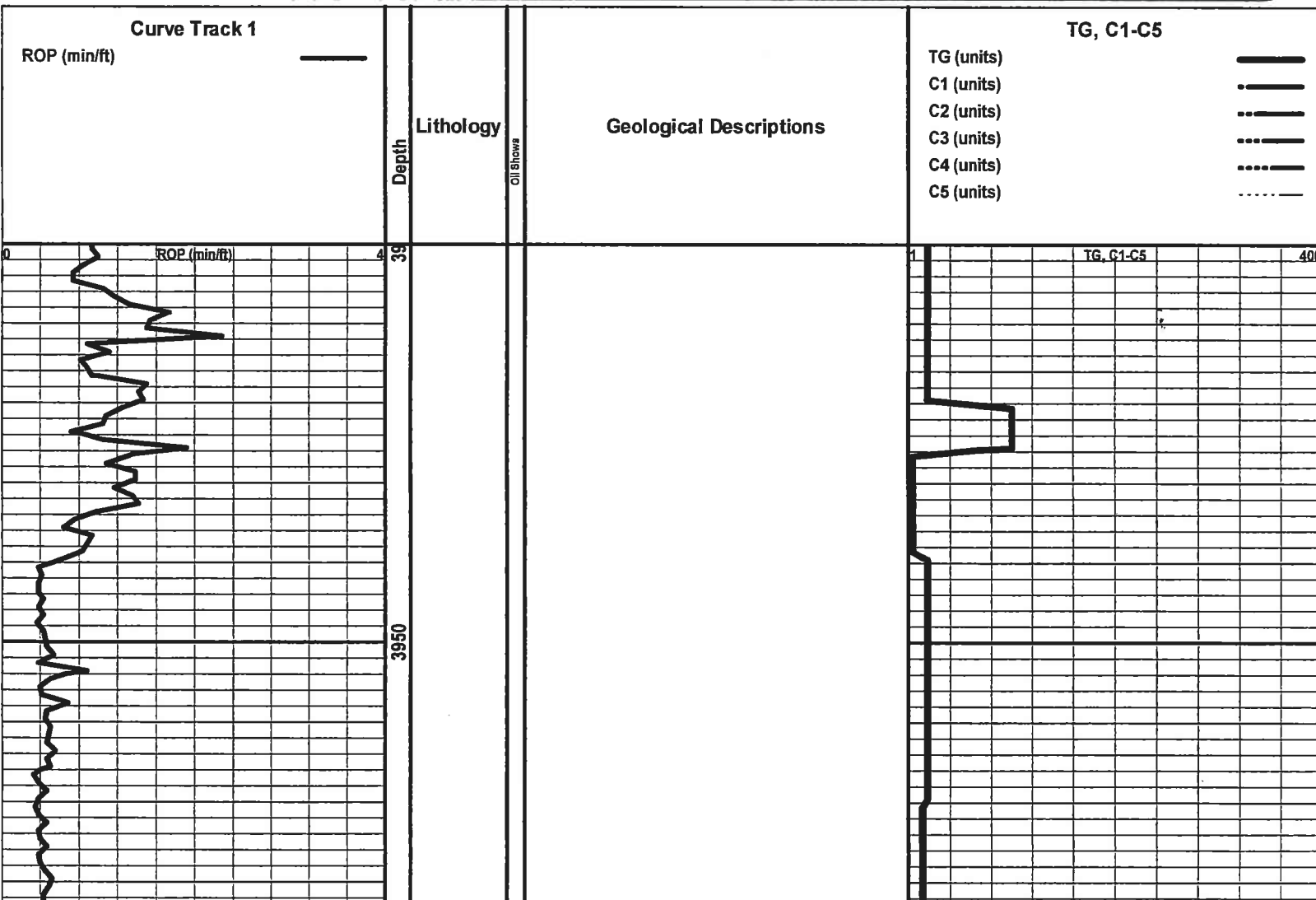
- Well
- Moderate
- Poor

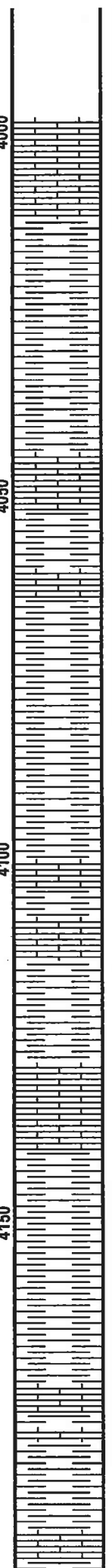
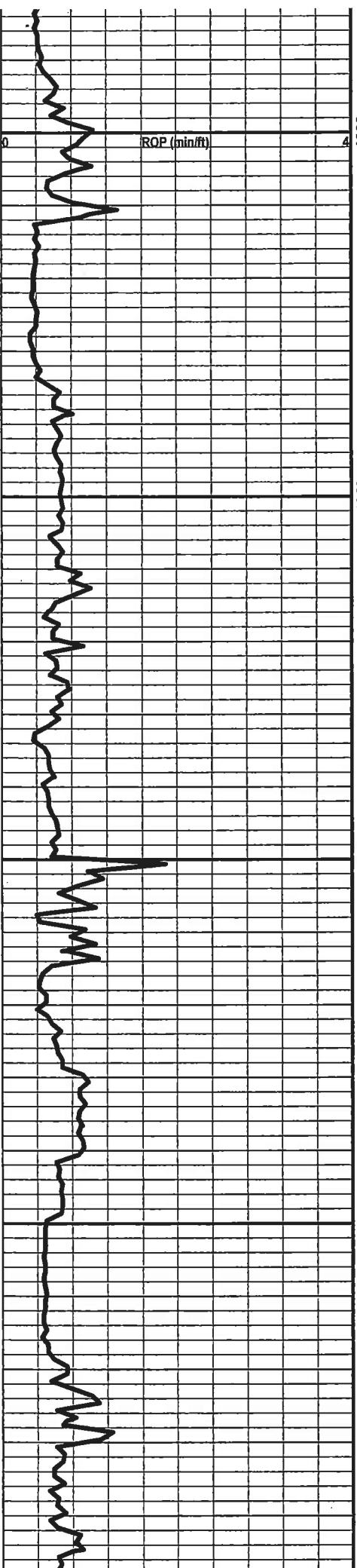
ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

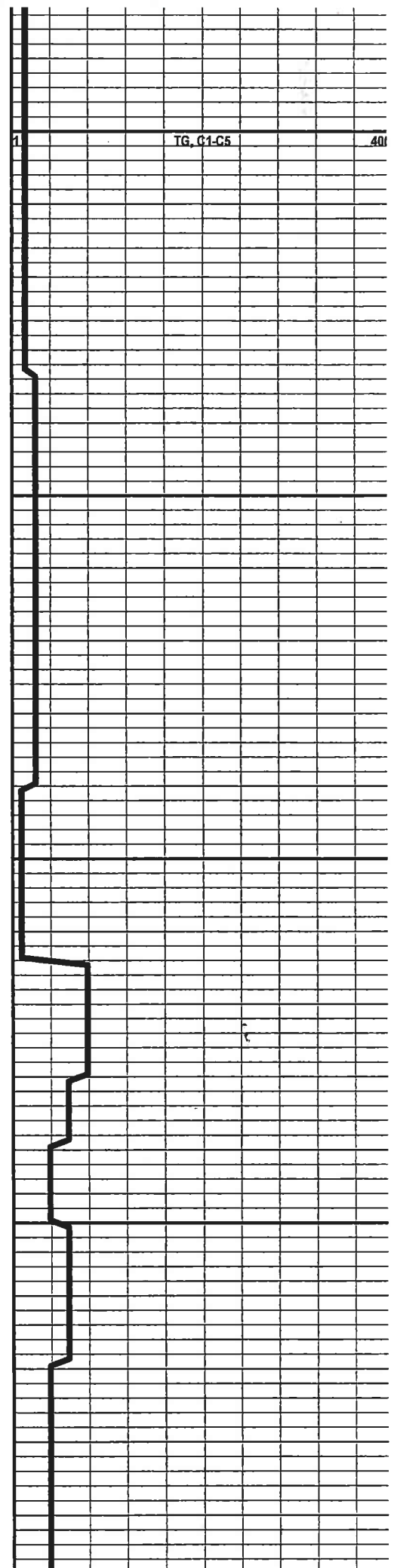
- Even
- Spotted
- Ques
- Dead

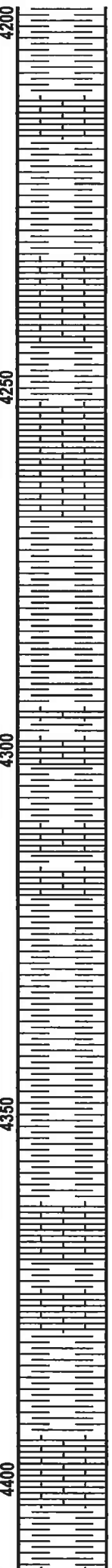
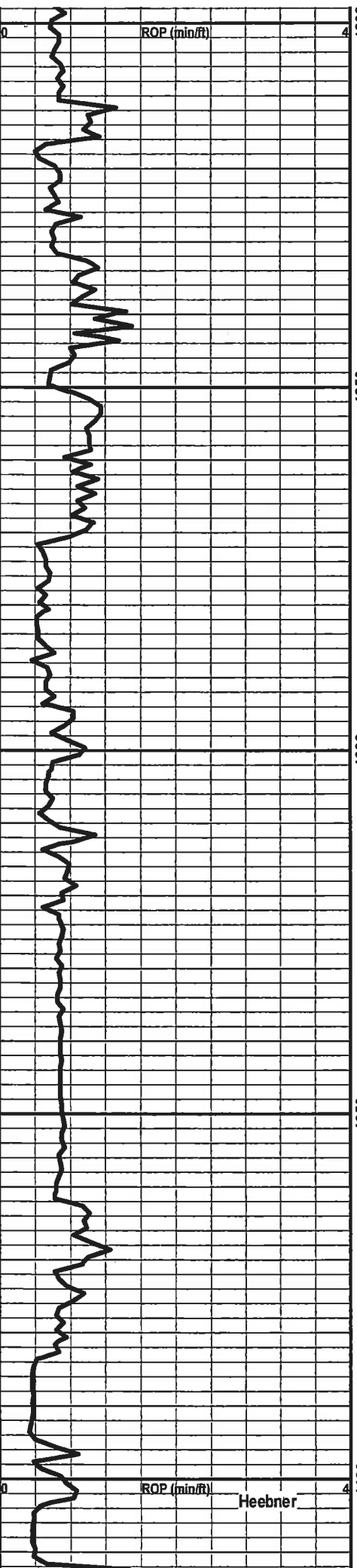




LS: Dk bm mot biomcr f xln hd dns arg foss p
vis por no flor no stn or cut intbd with SH: Blk
dk bm to gy fm sbfis to blk carb calc sily

LS: Dk bm mot biomcr f xln hd dns arg foss p
vis por no flor no stn or cut intbd with SH: Blk
dk bm to gy fm sbfis to blk carb calc sily



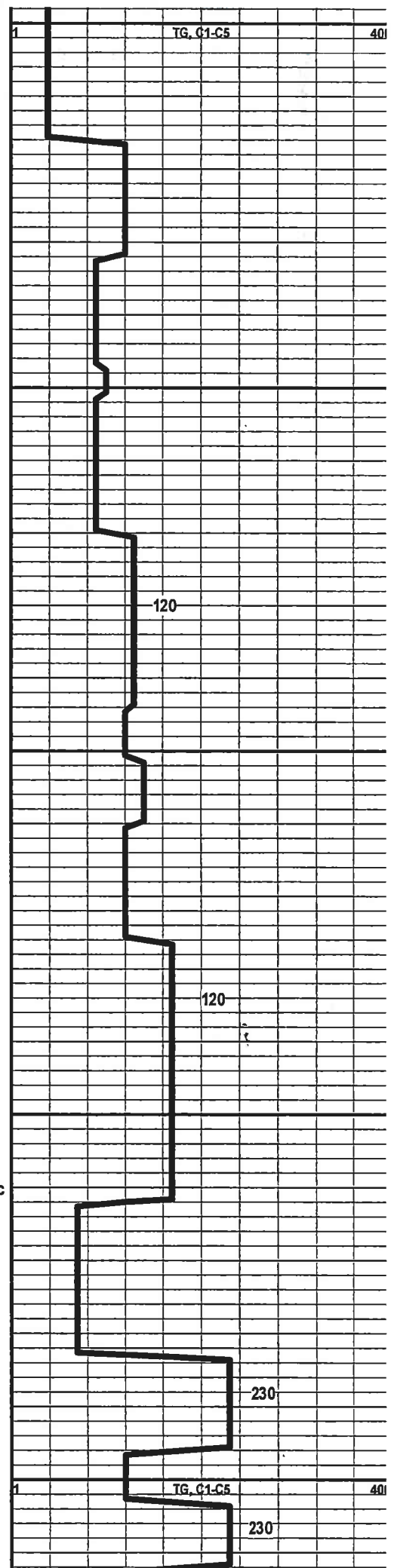


LS: Dk bm mot biomcr f xln hd dns arg foss p
vis por no flor no stn or cut intbd with SH: Blk
dk bm to gy frm sbfis to blk carb calc slty

SH: Dk bm gy blk frm sbfis to blk wxy carb calc
intbd with LS: Med to dk mot brn gy biomcr f
xln hd dns arg tt no show

LS: Med to lt brn tan biomcr micdn micsuc ip
cln foss tr moldic & intxln por no flor no stn or
cut with LS: Med to dk mot brn gy f xln hd dns
arg to mry ip foss carb tt no show intbd with
SH: Blk dk brn to gy frm foss ip carb calc slty

SH: Blk v dk brn frm sbfis wxy carb slty in

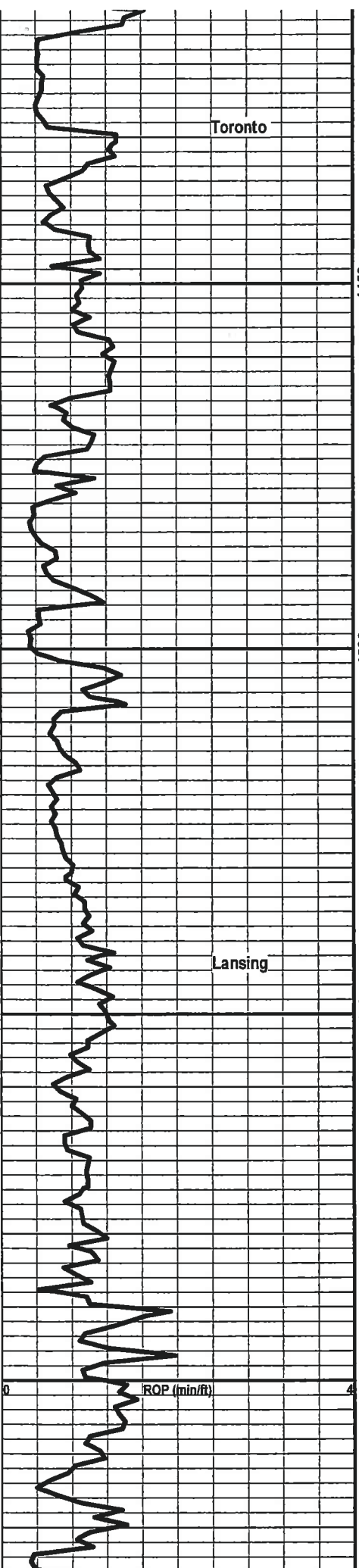


120

120

230

230



LS: Dk brn mot biomicr f xln hd dns arg foss p
vis por no flor no stn or cut intbd with SH: Blk
dk brn to gy frm sbfis to blk carb calc slty

LS: Med to lt brn tan biomicr micxn micsuc ip
cln foss tr moldic & intxn por no flor no stn or
cut with LS: Med to dk mot brn gy f xln hd dns
arg to mrlly ip foss carb tt no show

SH: Blk dk brn to gy frm foss ip carb calc slty

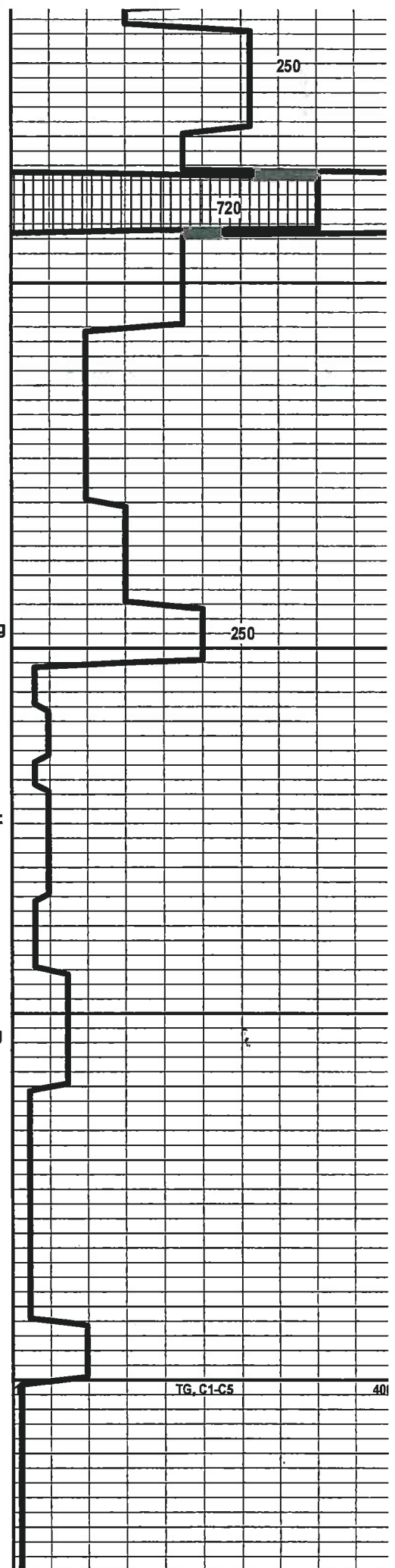
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foss carb incl tr intxn por no show with LS:
Med to dk mot brn occ blk f xln dns foss arg to
mrlly ip carb tt no show

SH: Gy brn frm blk foss carb occ intbd with LS:
aa no show

LS: Med to dk mot brn occ blk f xln dns foss arg
to mrlly ip carb tt no show intbd with SH: Gy brn
frm blk foss carb occ intbd with LS: aa no
show

LS: Mot brn lt brn gy biomicr f xln hd dns foss
cln to arg occ tr intxn & moldic por no show

LS: Med to lt mot brn bf micxn micsuc ip
sbchky cln foss tr intxn no show



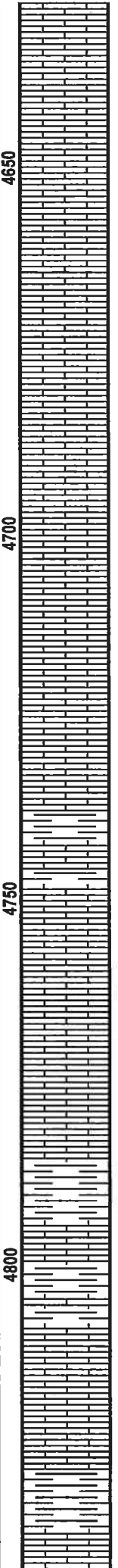
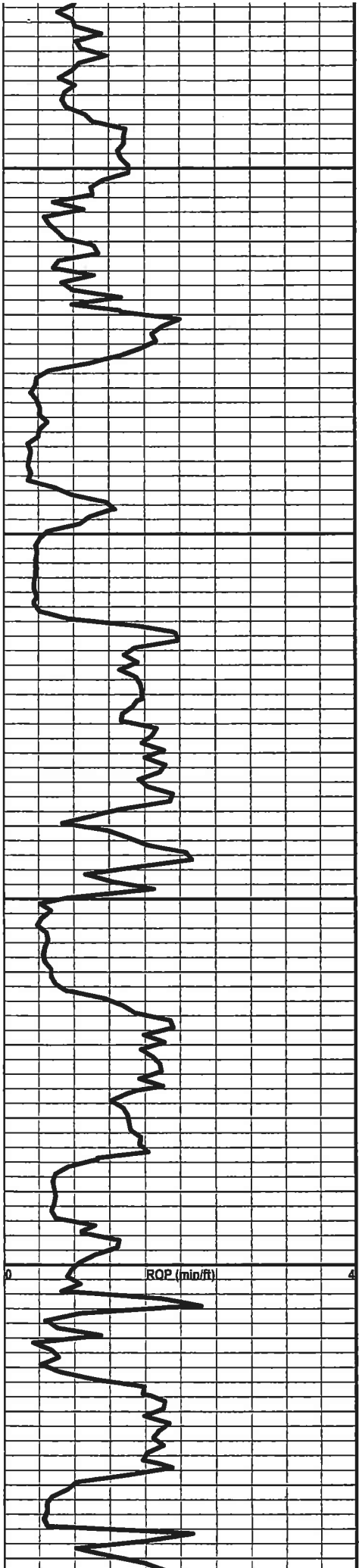
250

720

250

TG, C1-C5

40



4650
 LS: Lt mot brn gy biomicr f xln cln v foss occ moldic & intxn por pred hd & tt no show occ intbd with SH: Dk brn blk blk frm sity carb

4700
 LS: Lt brn f xln brit cln v ool w/exc moldic por no show

4750
 LS: Med brn crpxln hd dns cln sil ip tt no show with LS: Lt brn f xln brit cln v ool w/exc oomoldic por no show

4800
 LS: Lt to med brn oomicr f xln brit cln v ool exc oomoldic por no flor no stn or cut

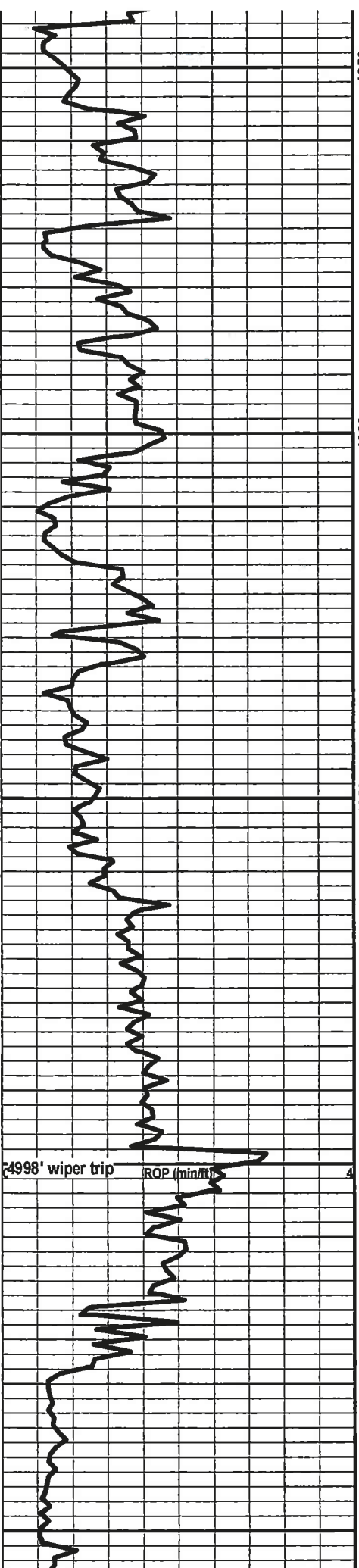
LS: Mot brn gy crpxln hd dns sil foss tt no show

SH: Dk brn hd blk to sbfis wxy to slty carb with LS: Brn gy crpxln hd dns tt no show

LS: Med brn micxln micsuc brit cln exc oomoldic por tr intxn por no show with LS: Lt brn bf micxln micsuc ip brit cln sbchky foss hd & sil ip no show

LS: Mot brn crpxln hd dns sil foss cln to arg tt no show

SH: Blk v dk brn frm sbfis to blk carb sity to wxy calc intbd with LS: Lt brn bf micxln micsuc ip brit cln sbchky foss tr intxn por no flor no stn



4850
4900
4950
5000
5050



or cut

LS: Mot brn v brit cln v ool w/exc oomoldic por
mot orng min flor no stn or cut no show

LS: Lt to med mot brn to gy micxln micsuc ip
pred hd & sil tt/ occ tr moldic & intxn por no flor
no stn or cut

LS: Lt brn gy bf micxln micsuc v brit cln chky ip
tr intxn por occ moldic por no show

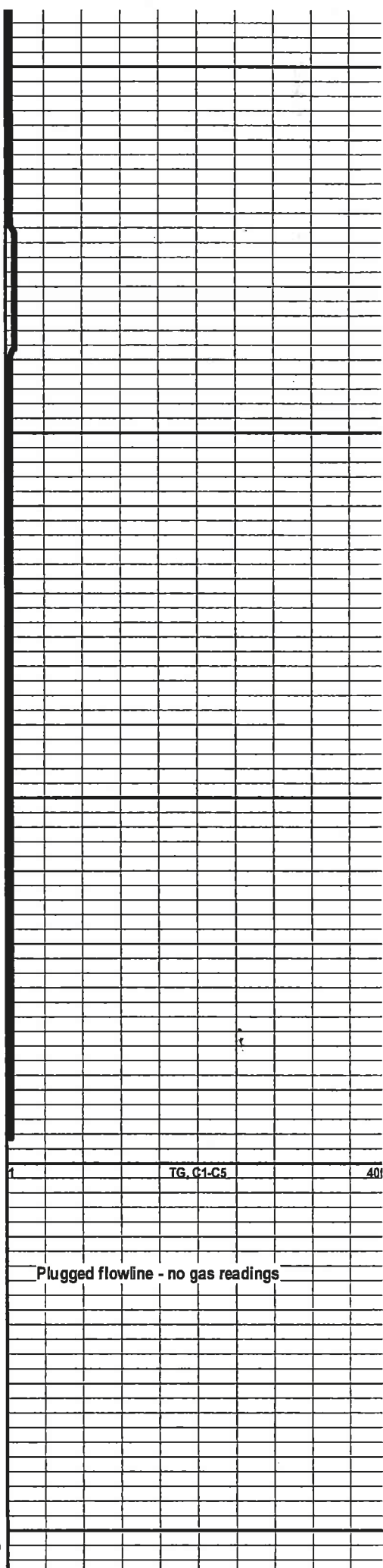
SH: Blk dk brn frm sbfis carb with LS: Lt brn gy
bf micxln micsuc v brit cln chky ip tr intxn por
occ moldic por no show

LS: Med mot brn oomicr f xln brit cln v ool w/exc
oomoldic por no flor no stn or cut mot orng min
flor

LS: Med to dk mot brn lt brn bf micro/crpxln
micsuc ip cln to mrlly sil ip pred hd & tt occ
micsuc w/intxn por no flor no stn or cut

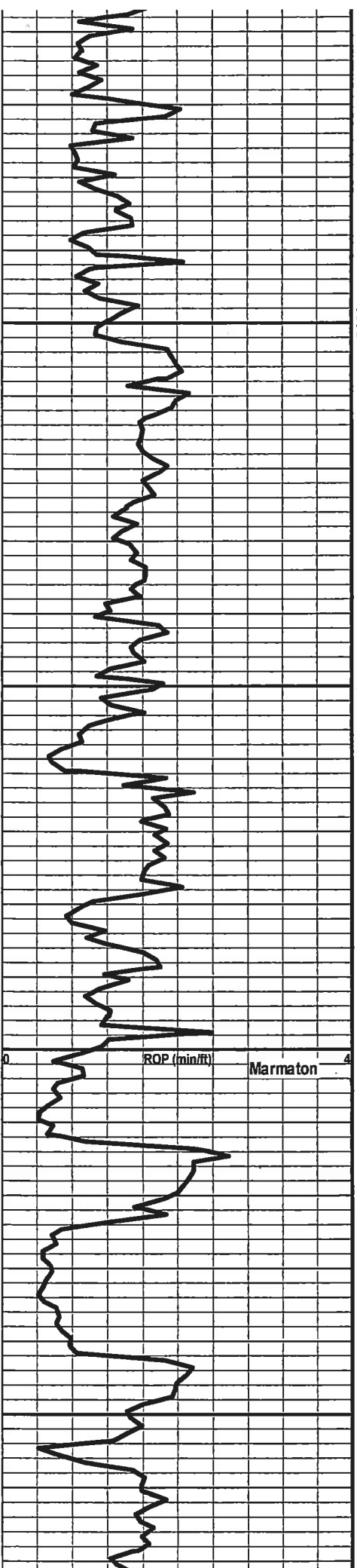
LS: Med to dk mot brn micr crpxln hd dns sil arg
to mrlly foss tt no show

SH: Dk bm blk dk gy hd blk carb calc foss sil ip
intbd with LS: Pred aa micsuc ip w/tr intxl por



TG, C1-C5

Plugged flowline - no gas readings



no flor no stn or cut

LS: Dk mot gy to brn occ blk crpxln hd dns sil arg to mryl ip tt no show

SH: Blk v dk brn hd sbfis to blkly wxy carb sity

Plugged flowline - no gas readings

LS: Dk mot brn gy micr crpxln hd dns arg to mryl foss carb tt no show with SH: Blk dk brn hd sbfis carb

LS: Med to dk mot brn f xln brit cln v ool exc oomoldic por tr intxn por mot orng min flor no stn or cut no show

LS: Med mot brn crpxln hd dns brit ip arg foss occ exc oomoldic por no show

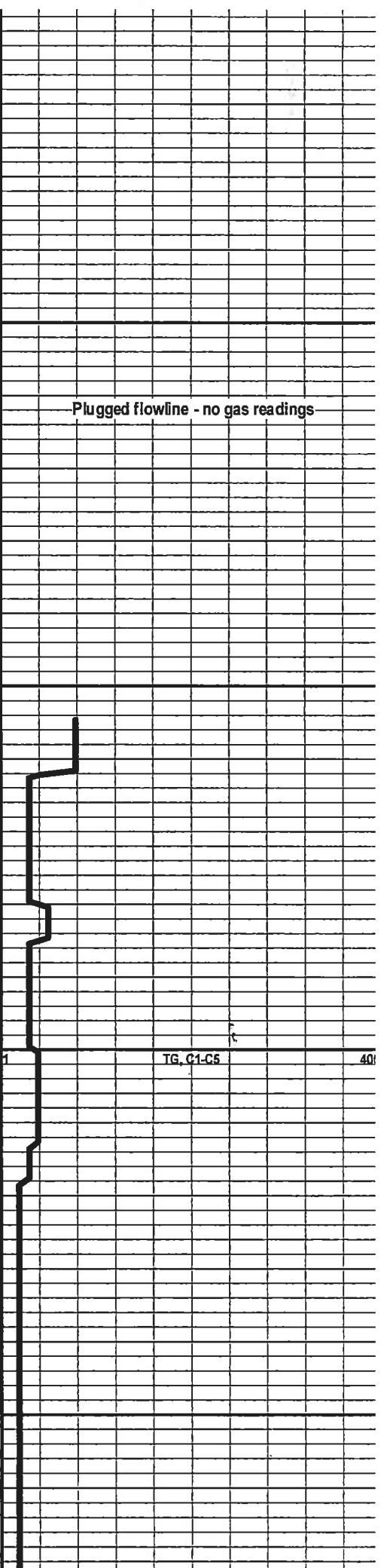
SH: Blk dk brn frm fis carb sity intbd with LS: Pred aa occ exc oomoldic por no flor no stn or cut

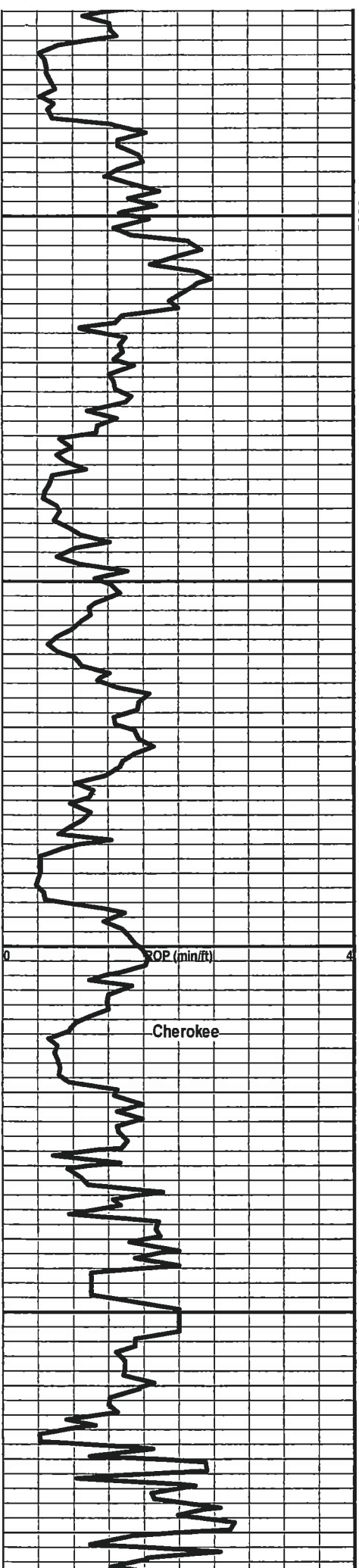
LS: Mot brn to gy f xln hd dns sil ip foss ool cln tt no show

SH: Blk dk gy frm sbfis to blkly carb calc sity to snyd ip intbd with LS: Lt brn bf wh f xln sbchky cln to arg sft brit no show

LS: Lt brn wh tan micxln chky ip cln to arg sft brit p vis por no flor no stn or cut

LS: Lt brn bf wh f xln chky ip sft brit cln no show with LS: Med mot brn oomicr micxln v ool w/exc oomoldic por no show occ intbd with SH: Blk





frm fis

LS: Lt brn bf wh f xln chky ip sft brit cln no show
with LS: Med mot brn oomicr micxln v ool w/exc
oomoldic por no show

SH with intbd LS: aa no show

SH: Blk dk brn frm sbfis to blk y wxy to sly carb

LS: Brn micxln micsuc ip cln foss sbchky tt no
show with LS: Med mot brn oomicr micxln v ool
w/exc oomoldic por no show intbd with SH: Dk
brn to gy blk frm sbfis to blk carb

SH: Blk frm fis carb

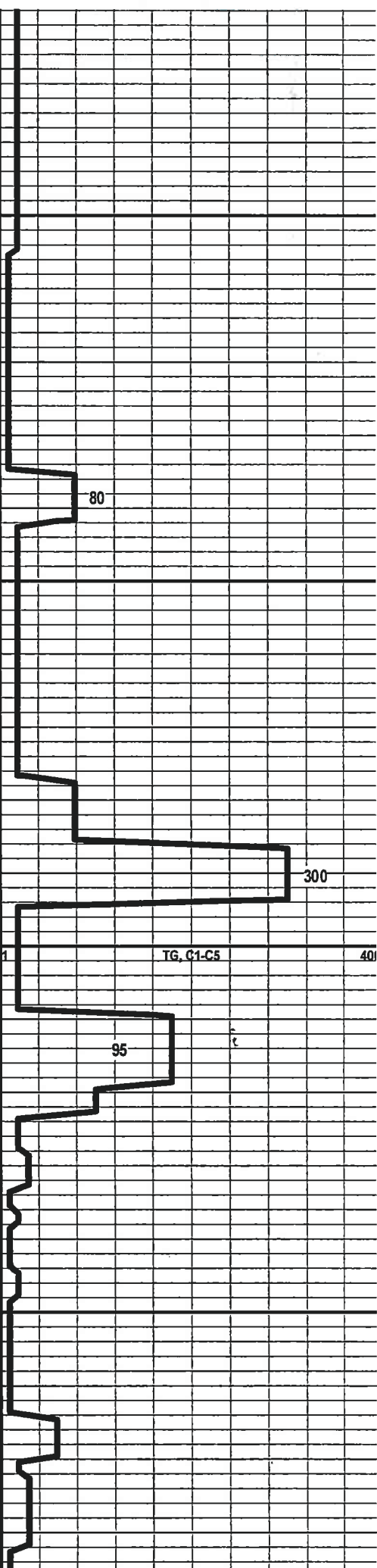
LS: Med to dk brn gy crpxln hd dns sil foss cln
to arg tt no show

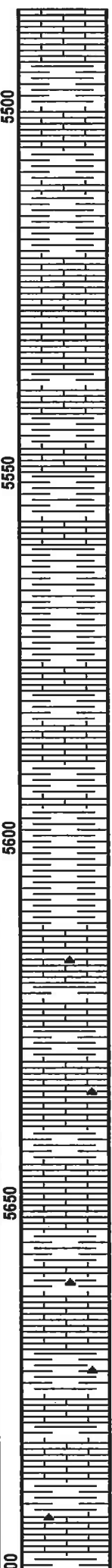
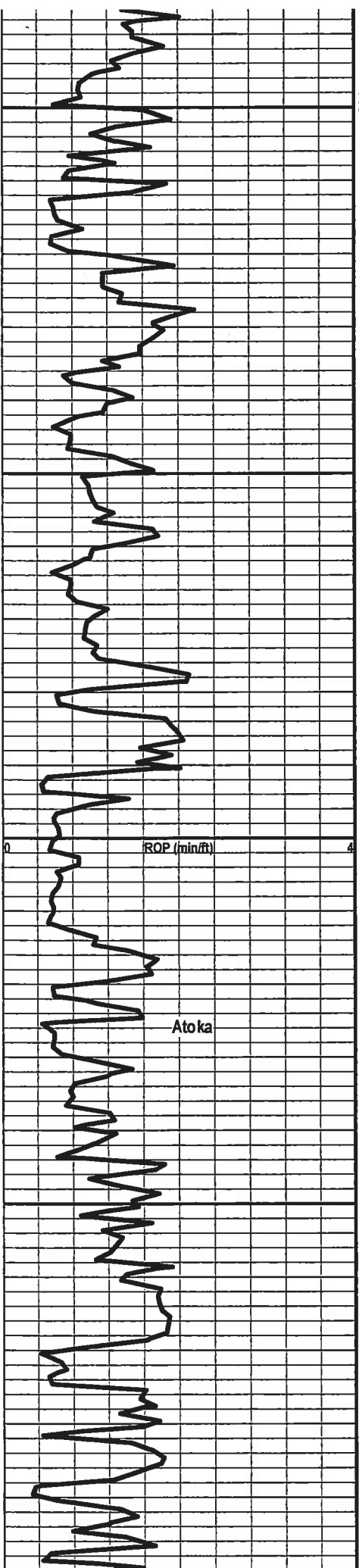
SH: Blk frm fis carb

LS: Med to dk brn occ blk crpxln hd dns sil arg
foss p vis por no show

SH: Blk dk gy to brn sbfis frm carb sly

LS: Med to dk brn to gy biomcr crpxln hd dns
foss arg to mry carb tt no show intbd with SH:
Blk frm fis carb





LS: Med to dk brn to gy biomicr crpxln hd dns foss arg to mrly carb tt no shoow intbd with SH: Blk frm fis carb

SH: Blk dk brn frm sbfis to blk carb calc

LS: Dk brn f xln hd dns foss arg to mrly tt no show with SH: aa

SH: Blk dk brn to gy hd blk to sbfis carb calc slty

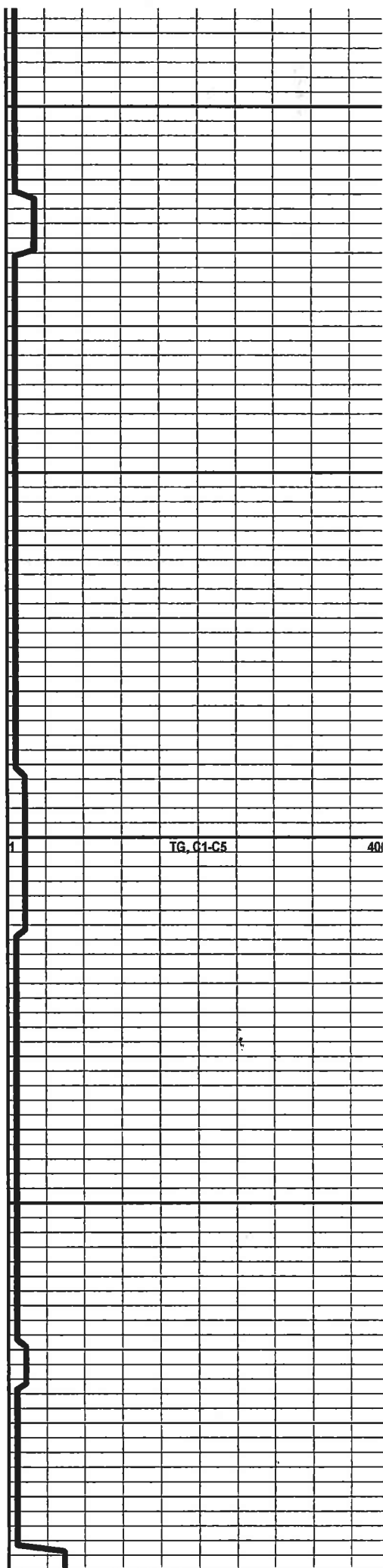
LS: Mot brn to gy bf micxn frm dns to tr intxn por sbchky ip cln to arg no flor no stn or cut

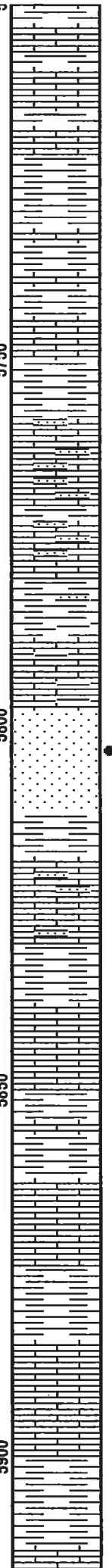
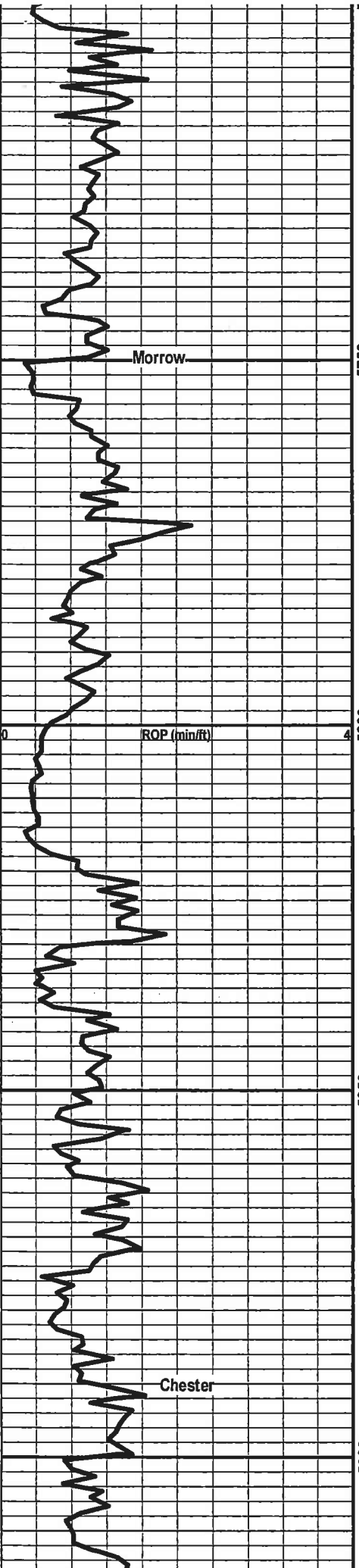
SH: Blk dk brn frm sbfis to blk carb intbd with LS: Mot brn bf f xln hd dns sbchky p vis por no flor no stn or cut

LS: Dk to med brn blk med to lt brn bf micr micxn micsuc dns sbchky ip foss cln to arg tr intxn por tr(<1% sp) pale bl hydc flor fr cut tr o stn tr CHRT intbd with SH: aa

SH: Blk dk brn frm fis to blk wxy to slty carb intbd with LS: Dk to med brn occ blk crpxln hd dns arg to mrly occ sbchky & cln p vis por no flor no stn or cut

SH: Blk frm fis carb





LS: Dk brn gy blk mot micr f xln dns arg to mry slty carb occ sbchky tr v dull pale bl hydc flor fnt cut no stn v wk show

SH: Blk frm sbfis carb calc slty in with tr LS: aa

LS: Dk mot brn to gy micr crpxln hd dns arg to mry sndy carb tt no show with SH: Blk frm sbfis carb slty to sndy ip

Morrow

5750

LS: Med to dk mot brn to gy micr f xln dns arg to mry ip v sndy & glauc tt no show with SH: Blk dk bm frm wxy carb

SS(6% spl): med mot bm hd/sl fri ip fu/ml w srt d sbmd grs sil & clay cmt glauc mica carb incl t/occ fr intgran & f vug por sm clay infill pale to lt bl & occ yel hydc flor(all SS) fr to gd strmg cut brn mtx o stn & tr live o gas bubbles when crushed show somewhat dissipates when dried

ROP (min/ft)

5800

SH: Blk dk brn frm sbfis to blk carb calc sndy ip with tr SS: Pred aa v glauc in tt no show

LS: Brn mic/crpxln hd dns arg to cln sbchky ip occ sndy p vis por occ fnt mot bl hydc flor(fr w pieces) fnt cut no stn intbd with SH: Blk sbfis carb calc

5850

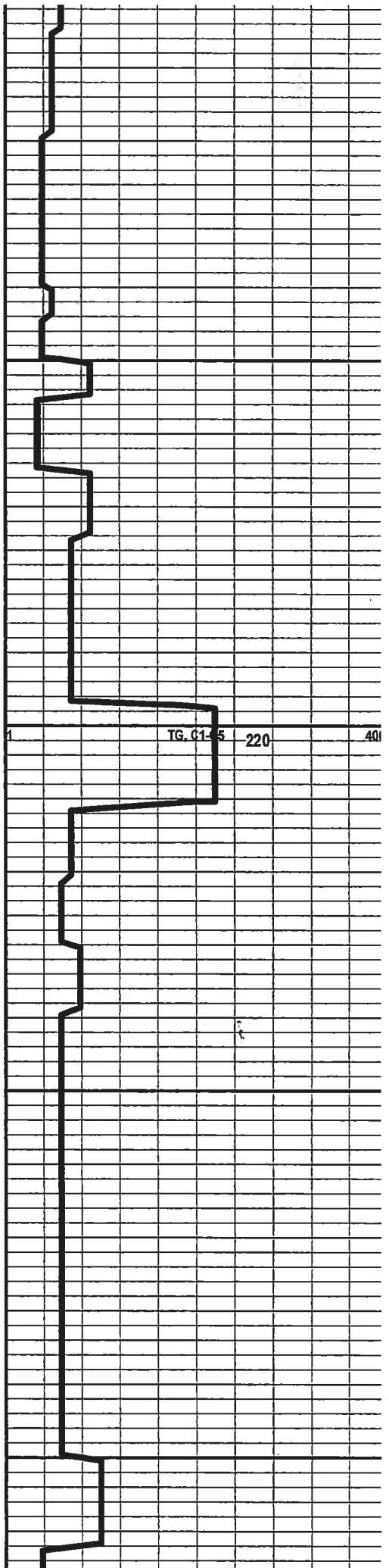
SH: Blk dk brn to gy frm wxy fis

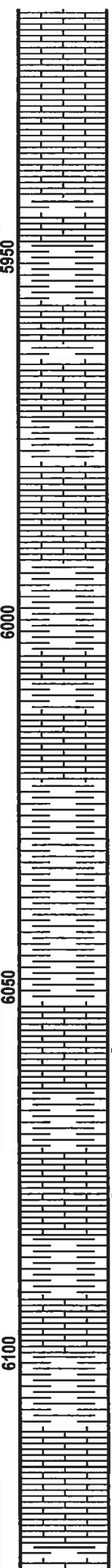
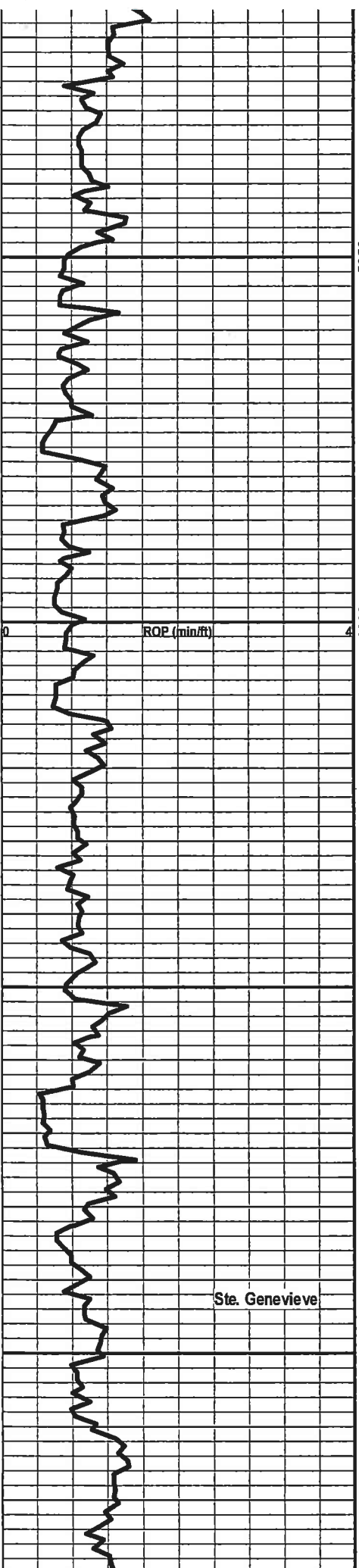
LS: Mot brn gy sft wxy chky brit sndy ip p vis por no show intbd with SH: Blk gy to brn frm wxy fis

Chester

5900

SH: Blk hd blk sndy





LS: Dk bm occ blk micr crpxln dns sndy carb p vis por no show

SH: Dk gy frm sbfis wxy

LS: Mot brn f xln sbchky cln to arg foss tt no show

SH: Med to dk gy frm sbfis wxy

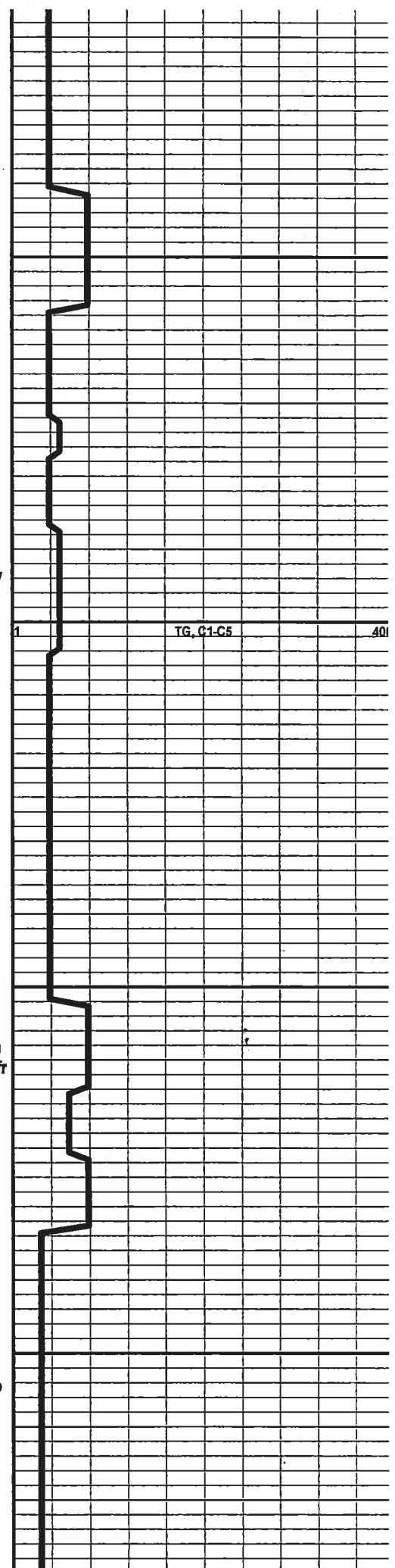
LS: Med to dk mot brn gy crpxln hd dns sil foss tt no show with LS: occ dk bm to blk arg to mfly carb foss tt intbd with SH: Blk v dk gy blk carb slty

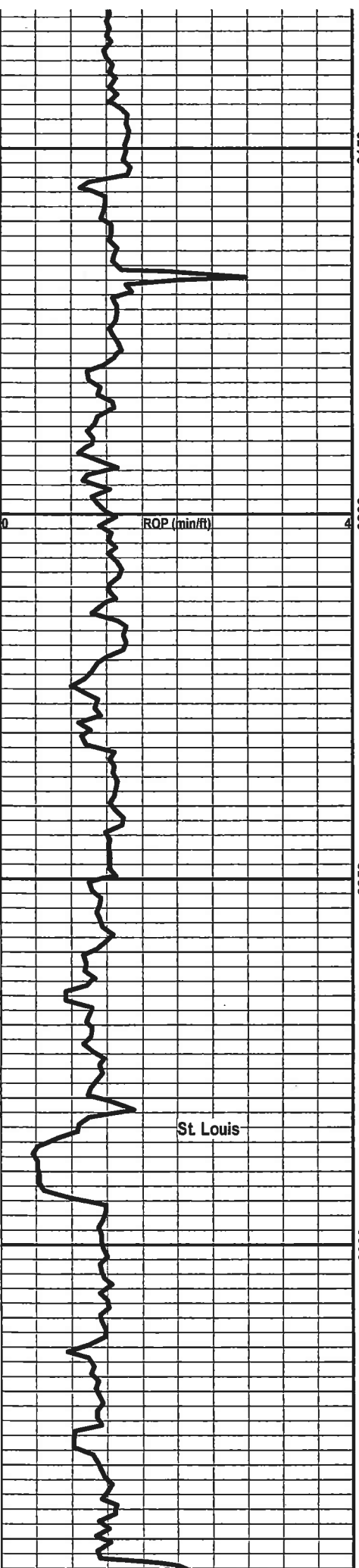
SH: Med gy gygn red/orng mar viol varic rthy fis/sp lty occ sndy & blk calc

LS: Med to lt mot brn to red orng varic ip micxln micsuc to suc ip brit cln to arg v sndy tr to occ fr intxln por mot goldbrn hydrc flor med sp lty brn mtx o stn gd strng cut tr live o intbd with SH: Med gy gygn red/orng mar viol varic rthy fis/sp lty occ sndy & blk calc

SH: Med gy frm wxy sp lty/fis with SH: Redbrn to orng lt gy to gygn gn redbrn rthy varic blk tr LS: Brn to gy crpxln hd dns sil foss tt no show

Ste. Genevieve





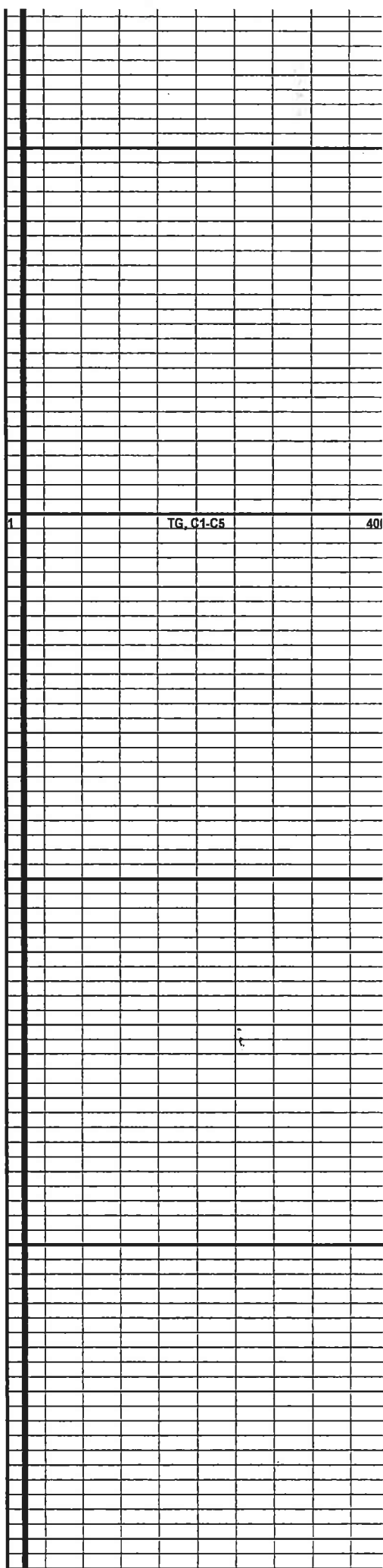
LS: Lt brn bf micxn micsuc ip brit cln sndy p vis
por occ tr pp vug por tr intxn por no show

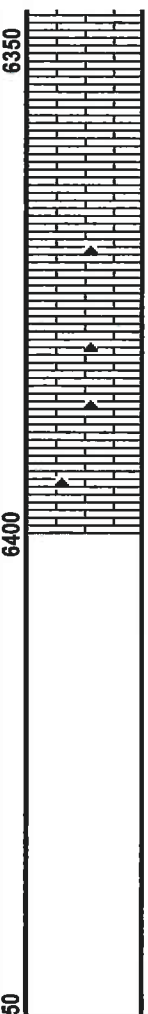
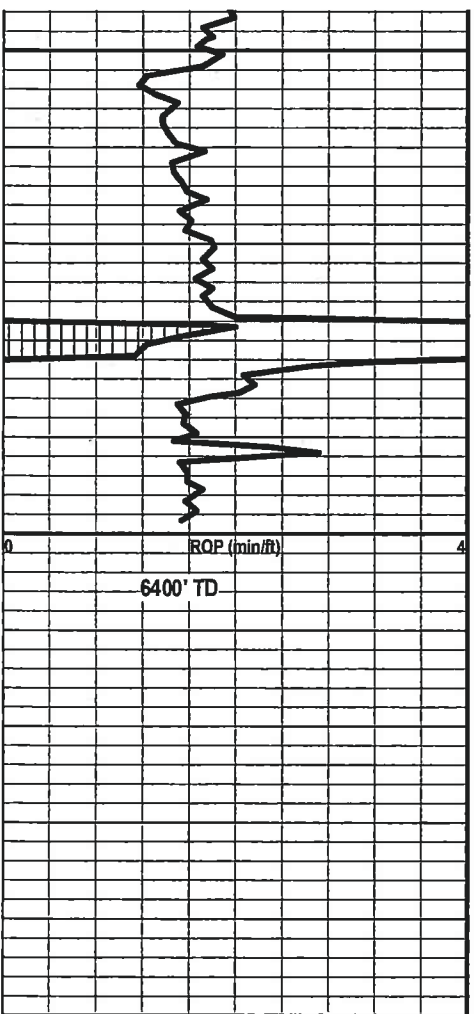
LS: Lt brn bf micxn micsuc ip brit cln sndy p vis
por occ tr pp vug por tr intxn por no show

LS: Lt brn bf micxn micsuc ip brit cln sndy p vis
por occ tr pp vug por tr intxn por no show

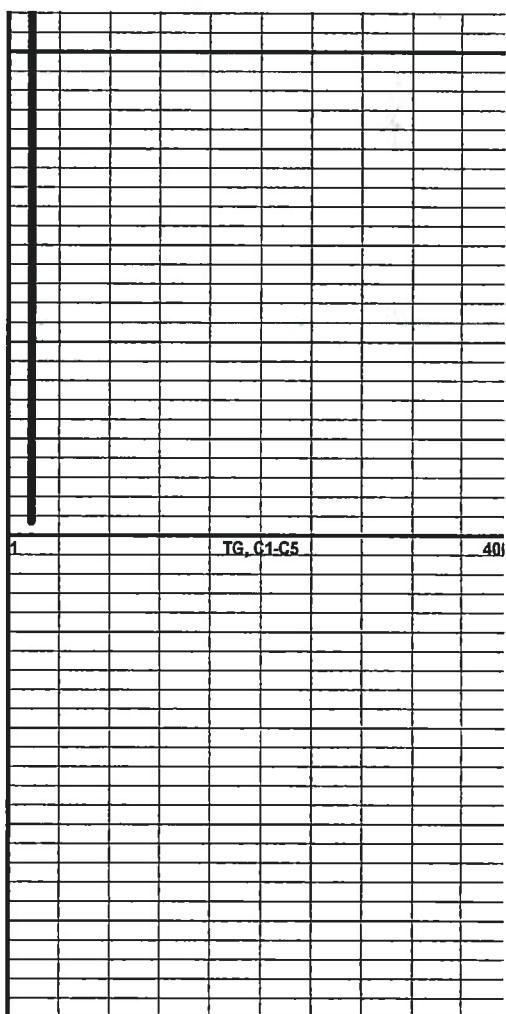
LS: Lt brn bf micxn micsuc suc ip cln sndy foss
ft no show with SH: Brn gy gygn to gn redbrn to
org varic rthy fis to splty wxy sndy & blk ip
calc

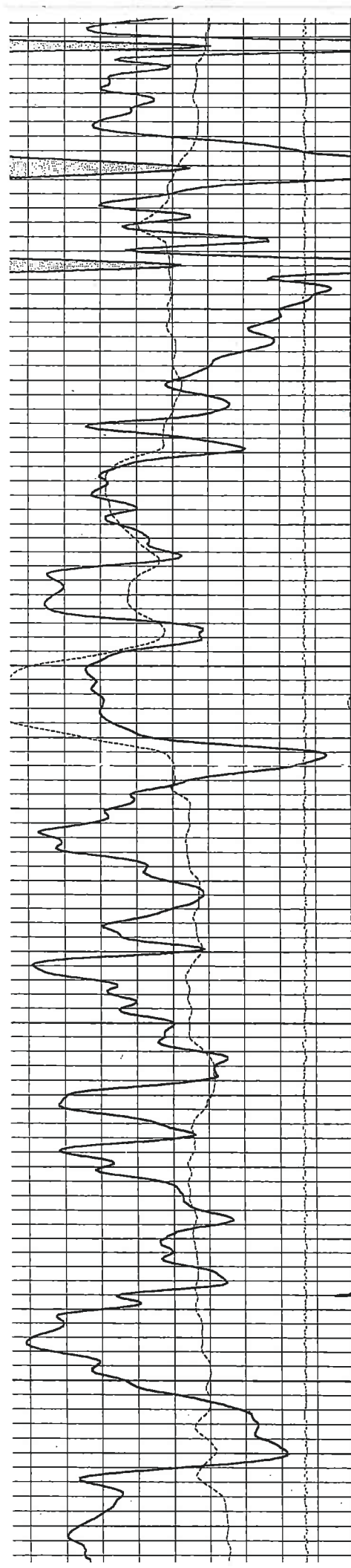
LS: Lt brn bf micxn micsuc suc ip cln sndy foss
ft no show





LS: Lt brn bf micxn micsuc suc ip cln sndy foss
ft no show tr CHRT





124°

Morrow

5750

124°

5800

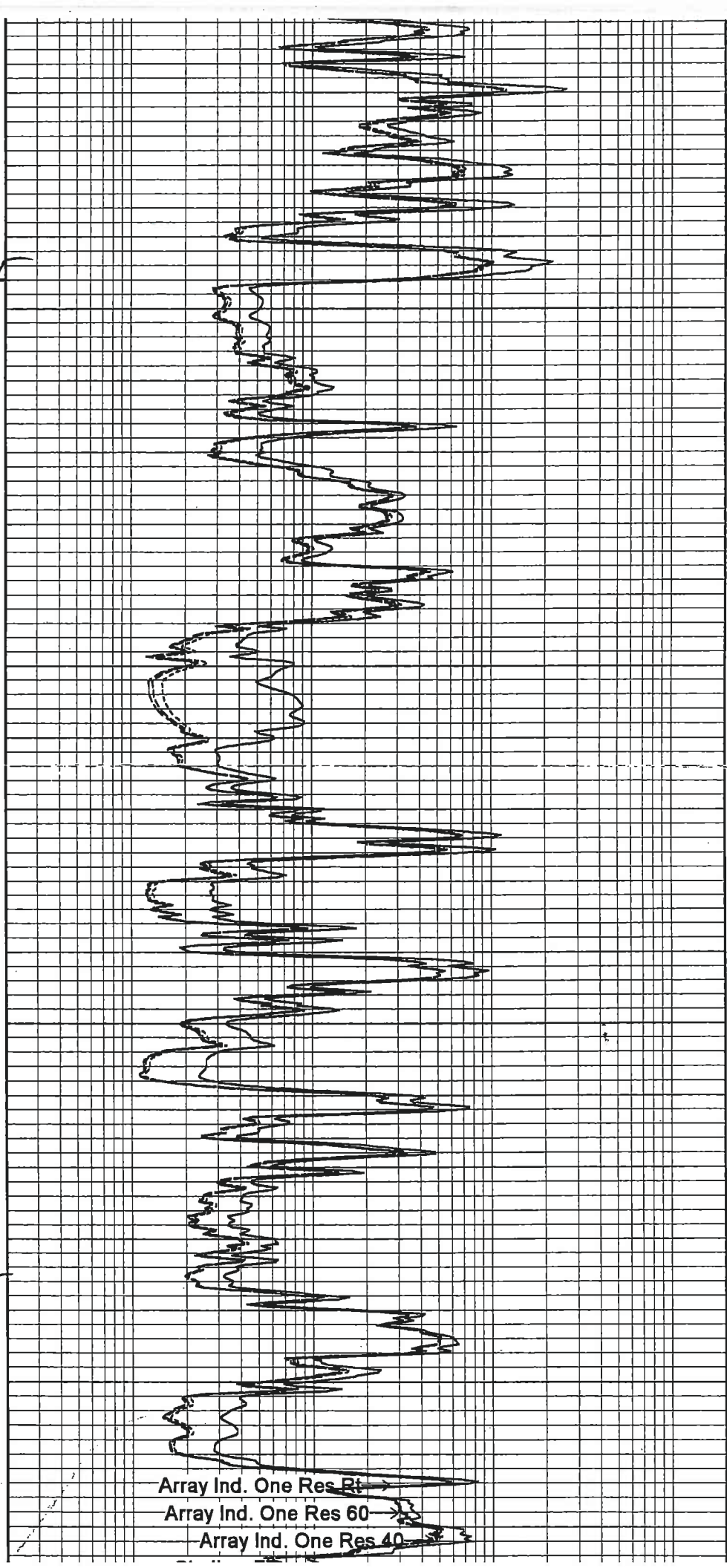
125°

5850

Chester

125°

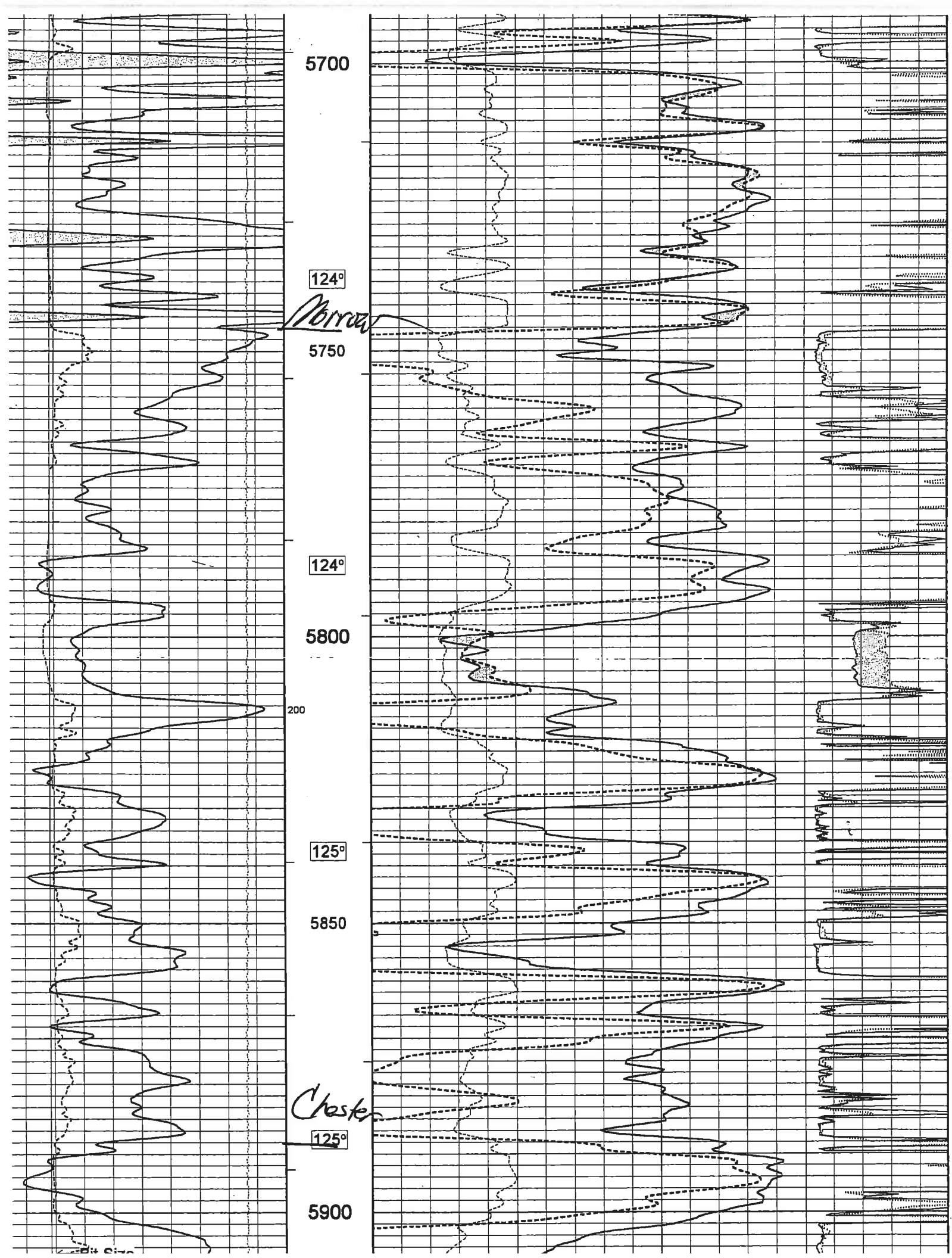
5900



Array Ind. One Res Rt →

Array Ind. One Res 60 →

Array Ind. One Res 40 →



5700

124°

Narrow

5750

124°

5800

200

125°

5850

Cluster

125°

5900

123°

5700

124°

Morroco

5750

124°

5800

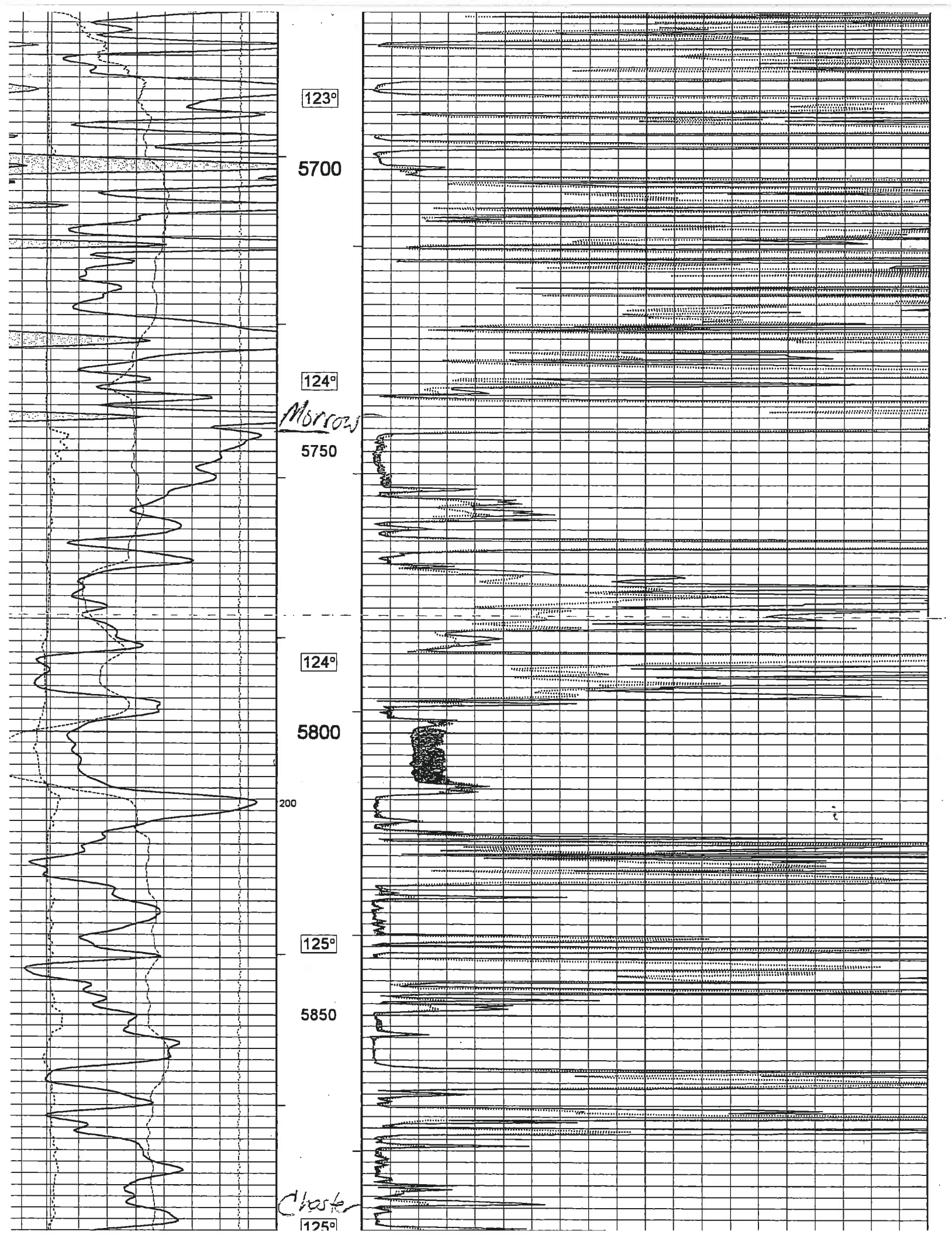
200

125°

5850

Chart

125°





BASICSM
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer O'Brien Energy	Lease No.	Date 7-11-13
Lease Meyer	Well # 1-21	Service Receipt
Casing 8 5/8	Depth 1495	County Meade
Job Type 2-42	Formation	State KS
		Legal Description Sec 21-T-33-R-30

Pipe Data		Perforating Data		Cement Data
Casing size 8 5/8	Tubing Size	Shots/Ft		Lead yield 2.95
Depth 1495 42' shoe joint	Depth	From	To	400 lbs gal/st 18.10
Volume 92.41	Volume	From	To	Density 11.8
Max Press 1500	Max Press	From	To	Tail in yield 1.34
Well Connection 8 5/8	Annulus Vol.	From	To	150 lbs gal/st 6.33
Plug Depth	Packer Depth	From	To	Density 14.8

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:00					ON Location
7:30					Safety Meeting & log up
10:50		1800			Primeup Psi Test
10:56	50		210	5.0	Start Lead Cement
11:35	50		35	5.0	Start Tail Cement
11:48			/	/	Shut Down Washup
11:50					Drop Plug
11:52	50		1	4.0	Start Displacement
12:01	150		40	4.0	Circulate Cement to Pit
12:06	250		70	2.0	Slowdown Rate
12:09	300		80	1.0	Slowdown Rate
12:15	800		92	/	Plug landed
12:20	800				Released Back Float Held

Service Units	39878	30463	37547	33021/14281	38750	19842
Driver Names	Juan	Mario		Greg	Carlos	

Roger Pearson Customer Representative Jerry Bennett Station Manager Juan Ortiz Cementer

Customer O'Brien Energy		Lease No.		Date 7-12-13	
Lease Meyer		Well # 1-21		Service Receipt 03462	
Casing 742-4 1/2"		Depth		County Meade	
Job Type		Formation		State KS	
				Legal Description 21-33-30	
Pipe Data			Perforating Data		
Casing size 4 1/2" 10.5#			Tubing Size		
Depth 6377'			Shots/Ft		
Volume Disp- 102 bbl			From		
Max Press 1500 #			To		
Well Connection TD-6400'			From		
Plug Depth ST-42'			To		
			Annulus Vol.		
			From		
			To		
			Packer Depth		
			From		
			To		
			Tail in 140 sk		
			AA2		
			AA2		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:00					on loc-site assessment
12:15					spot trucks - rig up
3:00					safety meeting / JSA
3:30					pressure test 3000#
3:25	200		12	4	pump 500 gal mudflush
3:27	200		49.75	5	mix + pump 185 sk AA2 @
					14.8 pp - 1.51 ft 3/4 sk
3:45					wash lines - drop plug
3:50	0		0	6	disp csg
4:00	100		25	6	pump 25 bbl H ₂ O - switch to
					mud 77 bbl
4:25	900		90	2	slow rate
4:30	1600		102	0	land catch down plug
4:55	1200				open DV tool @ 1200#
					circ wax - plug rat + mouse
7:15	200		12	4	pump 500 gal mudflush
7:25					mix + pump 140 sk AA2 @
	200		37.7	5	14.8 pp - 1.51 ft 3/4 sk
7:40	0		0	6	drop plug - disp csg
7:55	700		60	2	slow rate
8:00	1200		72	0	land plug - float held
					job complete
Service Units		34726	27462	30463-37547	
Driver Names		A Owen	J Martinez	D Beck	

R Pearson

Customer Representative

J Bennett

Station Manager

A Owen

Cementer