



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1223525
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
-----------------------------------	-----------------	---

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: _____

1223525

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
--	---

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
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Western Operating Company
Well Name	Fretz Trust 1
Doc ID	1223525

Tops

Name	Top	Datum
Chase	2166	+1255
Heebner	3653	-232
Lansing	3760	-339
Kansas City	3976	-555
Marmaton	4321	-900
Cherokee	4496	-1075
Atoka	4744	-1323
Morrow	5048	-1627
Morrow Lm	5350	-1929
Keys	5492	-2071
Miss.	5528	-2107

ALLIED OIL & GAS SERVICES, LLC 053171

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Liberal, ks

DATE <u>7-6-14</u>	SEC. <u>15</u>	TWP. <u>29S</u>	RANGE <u>41W</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00 pm</u>	JOB FINISH <u>3:40 pm</u>
LEASE <u>Fritz Trust</u> WELL # <u>1</u>		LOCATION <u>Johnson City, ks 2 miles south -</u>			COUNTY <u>Stanton</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>west 2.5 miles - 0.5 miles south</u>					

CONTRACTOR Murkin 1 OWNER Western Operating Co.

TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 1743
 CASING SIZE 8 5/8 DEPTH 1729.32
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 1500 MINIMUM
 MEAS. LINE SHOE JOINT 42.25
 CEMENT LEFT IN CSG. 42.25 ft
 PERFS.
 DISPLACEMENT 107 bbls

CEMENT
 AMOUNT ORDERED 575 Sks Class A 670gel, 370 CC,
0.25 lb/sk Ho Seal. 200 Sks Class A Neat. 370 CC,
0.25 lb/sk Ho Seal.

EQUIPMENT

PUMP TRUCK CEMENTER Eddy Rodriguez
 # 549-550 HELPER Alex Corona
 BULK TRUCK
 # 993-467 DRIVER Ricardo Landa
 BULK TRUCK
 # 869-544 DRIVER Greg Randall

COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC _____ @ _____
Class A 575 Sks @
Calcium Chloride Pellets 150# @
Cellophane flakes 144# @
Class A Common 200 Sks @
Calcium Chloride Pellets 54# @
Cellophane flakes 50# @
 _____ @ _____
 _____ @ _____
 _____ @ _____

REMARKS:

4464.67 / 25 %

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE 1 ZZ
Light @ _____
 MILEAGE Heavy @ _____
 MANIFOLD 1 @ _____
Handling 1852 Ton @ _____
Drayage 879.00 ft³ @ _____
 Additional Hrs 6 Hrs
3251.67

CHARGE TO: Western Operating Co.
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQ

Guide shoe 1 @
AFU float valve insert 1 @
Basket 1 @
Centralizers 5 @
Top Rubber Plug 1 @

493.25

SALES TAX (If Any) _____

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Joshua McLarty

SIGNATURE Joshua McLarty
46 Pat Hale

ALLIED OIL & GAS SERVICES, LLC 053255

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Liberal KS

DATE <u>07-15-14</u>	SEC <u>15</u>	TWP <u>29S</u>	RANGE <u>41W</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30</u>	JOB FINISH <u>5:30 a.m</u>
LEASE <u>Fetz-trust</u>		WELL # <u>1</u>	LOCATION <u>Johnson City, 3 Mi S. + CR</u>			COUNTY <u>Stanton</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>15, W 2 1/2, S 1/4 M, 1 to</u>				

CONTRACTOR Martin #4 OWNER Western Operating

TYPE OF JOB Production

HOLE SIZE 7 7/8 T.D. 5800 ft CEMENT AMOUNT ORDERED 50 sk 60/40/4% Gel

CASING SIZE 5 1/2 15.5 FT DEPTH 5797 ft 12.5 sk ASOC-A 6 lb NaCl, 5-5%

TUBING SIZE _____ DEPTH _____ Gyp Seal, 2% Gel, 5 lb/sk Kol Seal, 0.5% F-110

DRILL PIPE _____ DEPTH _____ COMMON _____ @ _____

TOOL _____ DEPTH _____ POZMIX _____ @ _____

PRES. MAX 1500 PSI MINIMUM _____ GEL _____ @ _____

MEAS. LINE _____ SHOE JOINT 2 1/8 ft CHLORIDE _____ @ _____

CEMENT LEFT IN CSG. 6 BBIS ASC Class "A" 125 sk @ _____

PERFS. _____ SUPER FLUSH 12 BBIS @ _____

DISPLACEMENT 138 BBIS ALWC "2-A" 50 sk @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Tuben Chavez # 531-541 HELPER Jaime Torres

BULK TRUCK # 993-467 DRIVER Jose Calderon

BULK TRUCK # 774-744 DRIVER Daniel Rosales

REMARKS:

HANDLING _____ @ _____

MILEAGE 1263.10 / 20%

SERVICE

Handling _____

DEPTH OF JOB 218 cf / 2'

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE heavy 50 Mi @ _____

MANIFOLD head 1 @ _____

Light Vehicle 50 Mi @ _____

Standby hours 9 @ _____

Derrick Charge 1 \$

Dragage 464 T.M / 2.6

2052.76 / 20%

PLUG & FLOAT EQ

Guide Shoe 1 @ _____

AFU Float Valve 1 @ _____

Centralizer 8 @ _____

Thread Lock 1 @ _____

Clamp / stop collar 1 @ _____

1" rubber plug 1 @ _____

258.20

SALES TAX (If Any) _____

CHARGE TO: Western Operating

STREET _____

CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Dale Hart

SIGNATURE Dale Hart

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: Western Operating Company, Fretz Trust No. 1, Arroyo Field
Location: 2285'FSL & 660'FWL, Sec. 15, 29S, 41W, Stanton Co. KS
Licence Number: API: 15-187-21280 Region: Hougaton
Spud Date: 7/4/14 Drilling Completed: 7/13/14
Surface Coordinates: 2285'FSL & 660'FWL, Sec. 15, 29S, 41W, Stanton Co. KS

Bottom Hole Coordinates: 2285'FSL & 660'FWL, Sec. 15, 29S, 41W, Stanton Co. KS
Ground Elevation (ft): 3410' K.B. Elevation (ft): 3421'
Logged Interval (ft): 3600' To: TD Total Depth (ft): 5800'
Formation: Cherokee, Morrow, Keyes, Mississippi
Type of Drilling Fluid: Chemical Gel/LSND/LCM, mud up 3400'

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

OPERATOR

Company: Western Operating Company
Address: 518th 17th Street, Suite 200
Denver, CO 80202
Pres.: Steve James, Geologist Scott Stapp

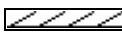
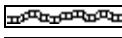
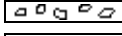
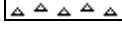
GEOLOGIST

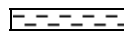

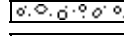

Name: Wellsite: Peter Debenham
Company: Petrolific Consulting Services
Address: P.O. Box 350
Drake, CO 80515
720/220-4860, Petrolific@gmail.com

Comments

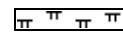
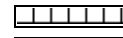
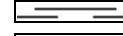
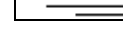
Mrufin Rig. No. 4, T.P. Pat Hale, jackknife tripple stand, Service Mud/MudCo., Engineer Justin Whiting,
Weatherford Logs engineer Adam Sill,

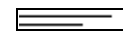
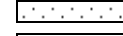

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht

 Clyst
 Coal
 Congl
 Dol

 Gyp
 Igne
 Lmst
 Meta

 Mrlst
 Salt
 Shale
 Shcol

 Shgy
 Sltst
 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
- Brecfrag
- Calc
- Carb

- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymn
- 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

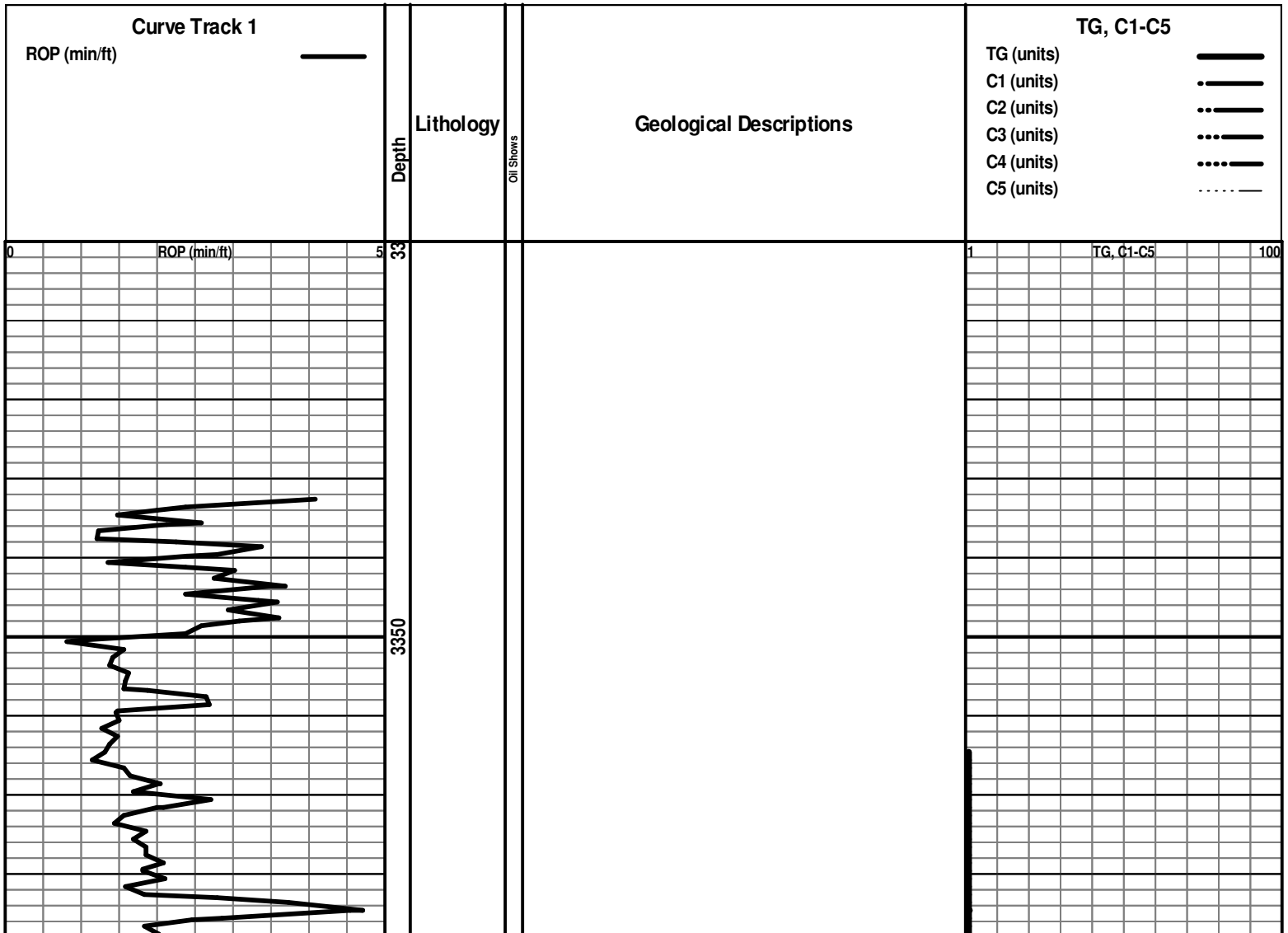
- Well
- Moderate
- Poor

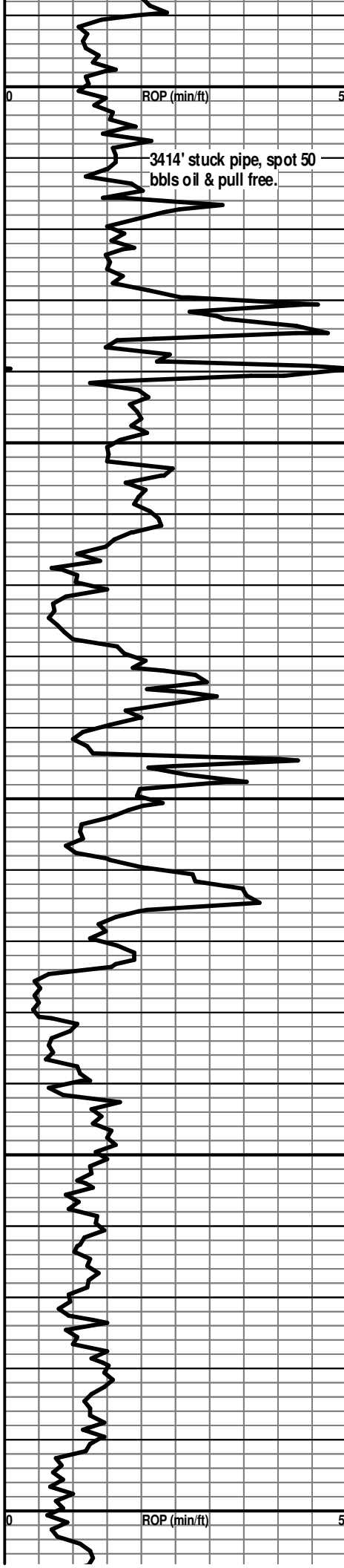
ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead





ROP (min/ft)

3414' stuck pipe, spot 50
bbls oil & pull free.

3400
3450
3500
3550
3600



LS: Lt brn to bf micxn mic/crpxln frm foss ool dns to tr
intxn & moldic por no flor no stn or cut intbd with SH:
Gy to bl frm blk carb calc

LS: Pred aa foss ool with occ gd oomoldic por tr intxn
por no show intbd with SH: aa

SH: Med to dk brn to gy blk blk frm carb wxy to stly with
LS: aa

LS: Lt brn bf oomicr micxn brit cln exc oomoldic por
intxn por no flor no stn or cut

LS: Brn micr micxn frm to hd mic/crpxln cln foss with
occ gd moldic por no show occ intbd with SH: aa

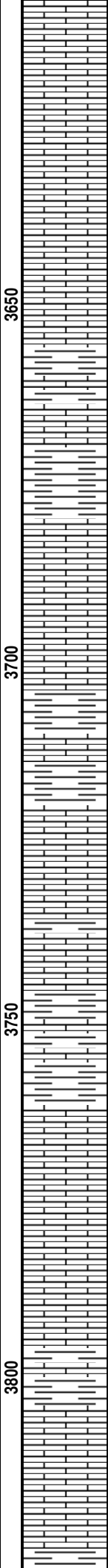
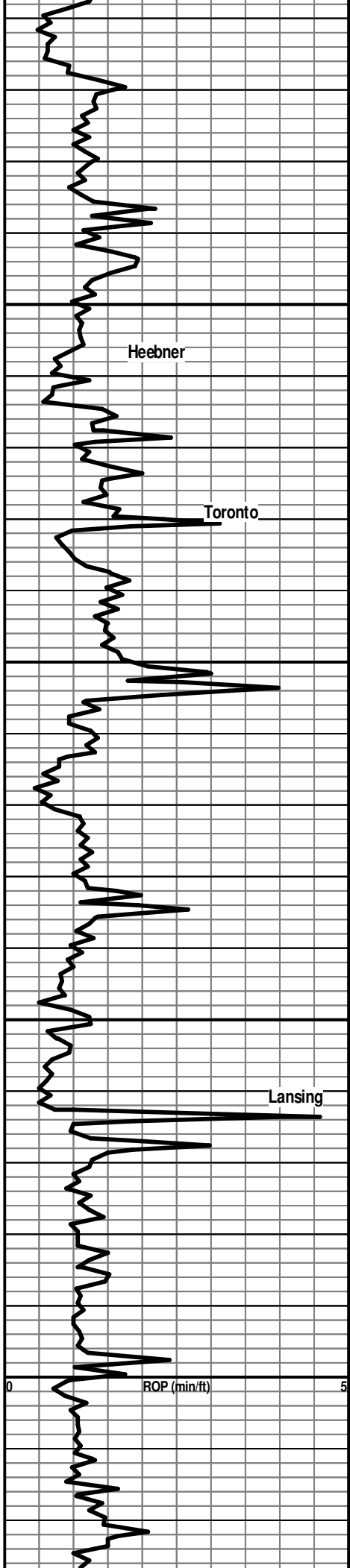
TG, C1-C5

100

1200 Units gas background from
contaminated mud - spotted 50
bbls oil. Gas reading remained
above 300 Units to TD. No
noticable gas increases noted.

TG, C1-C5

100



LS: Lt brn oomif r xln/micsuc ip brit cln v ool with exc oomoldic por no flor no stn or cut

LS: Mot brn to gy f xln dns sil foss tt no show

SH: Blk frm sbfis carb calc intbd with LS: Lt brn micxln micsuc brit cln sbchky ip carb incl tr intxln por no show

Lt brn micxln micsuc brit cln sbchky ip carb incl tr intxln por occ gd moldic por no show

SH: Blk dk brn to gy frm fis to blk carb csalc mica with intbd LS: Mot brn mic/crpxln hd dns to tr intxln por sil & tt ip tripolic foss carb no show tr CHRT: Mot gy tripolic hd dns

LS: Lt to med brn bf micr micxln micsuc cln sbchky & brit ip foss occ oomoldic por no show with SH: Gy brn gygn frm sbfis wxy carb

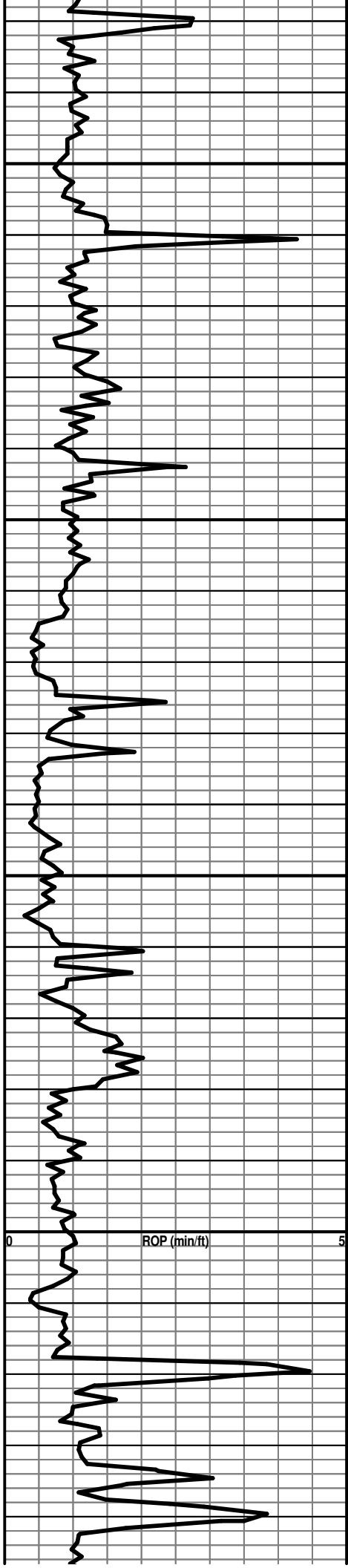
SH: Gy brn gygn frm sbfis wxy carb

LS: Brn gy crpxln hd dns sil ip foss p vis por no flor no stn or cut tr CHRT: Brn tripol ip hd xln foss intbd with SH: Gy brn gygn frm sbfis wxy carb

LS: Pred aa occ v chky & brit micsuc with intxln por no show intbd with SH: Gy brn gygn frm sbfis wxy carb

LS: Lt to med brn to gy micr micxln micsuc ip cln foss tr intxln & occ moldic por no show

WT 8.3
 VIS 69
 PV 22
 YP 24
 pH 10.0
 WL 7.6
 CL 900
 LCM 11



3850

3900

3950

4000

ROP (min/ft)

LS: Lt to med brn gy bf micr micxln micsuc ip cln foss tr
intxln por occ moldic por no show

LS: Mot brn to gy pred aa pred hd & tt no show occ intbd
with SH

LS: Lt brn bf oomicr micxln micsuc brit cln foss ool with
moldic por no flor no stn or cut intbd with LS: Brn tan
crpxln hd dns sil tt no show

LS: Lt brn bf oomicr v brit cln v ool with exc oomoldic
por no show

LS: Lt brn bf oomicr v brit cln v ool with exc oomoldic
por no show

LS: Lt to med brn micxln to crpxln hd dns to tr intxln &
occ moldic por cln foss sbchky ip occ sil & tt no show
with SH: Brn gy gygn blk y wxy to sndy ip carb

LS: Pred aa suc with occ fr intxln por no show

LS: Med to dk brn to gy dk gy crpxln hd dns arg to mrl y
ip tt no show intbd with SH: Gy brn frm sbfis to blk y carb
calc

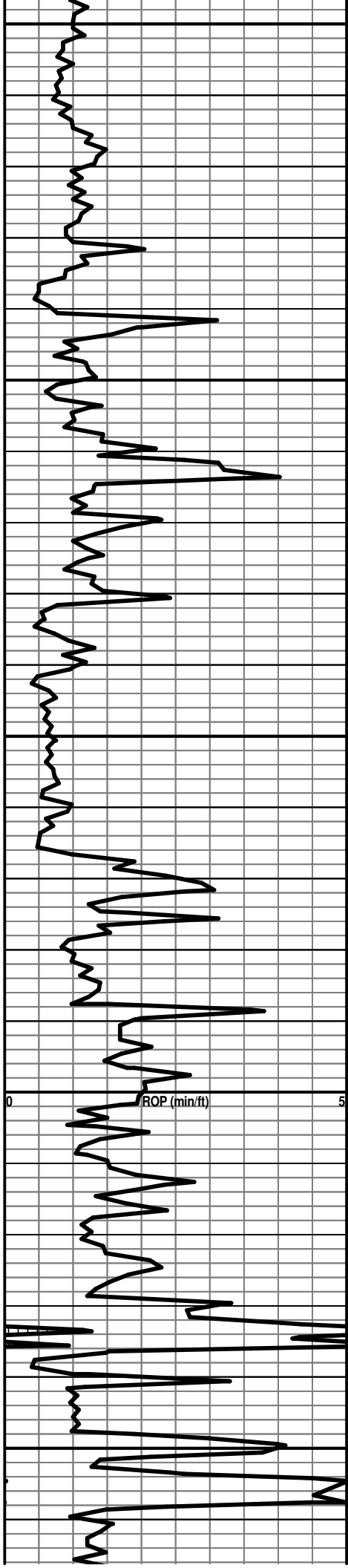
LS: Med brn to gy f xln dns arg to mrl y ip foss pred tt no
flor no stn or cut intbed with SH: Med gy brn hd blk y calc
carb slty mica

LS: Lt brn gy micxln micsuc ip brit cln to arg chky occ
intxln por no show

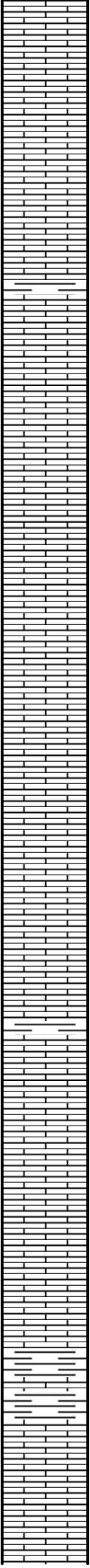
1

TG, C1-C5

100



4050
4100
4150
4200
4250



LS: Lt brn oomcr f xln brit cln v ool with exc oomoldic por no flor no sth or cut occ intbd with LS: Brn to gy frm blk calc

LS: Lt brn oomcr f xln brit cln v ool with exc oomoldic por no flor no sth or cut with LS: Mot brn brit sbchky foss cln tr intxn por no show occ intbd with SH: Gy brn gygn blk calc carb

LS: Lt brn oomcr f xln brit cln v ool with exc oomoldic por no flor no sth or cut with LS: Mot brn brit sbchky foss cln tr intxn por no show

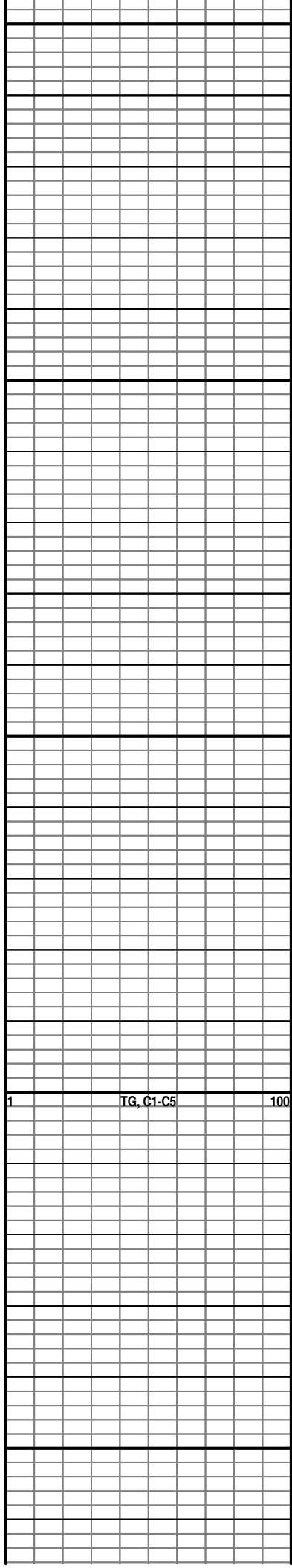
LS: Lt brn oomcr f xln brit cln v ool with exc oomoldic por no flor no sth or cut with LS: Mot brn brit sbchky foss cln tr intxn por no show

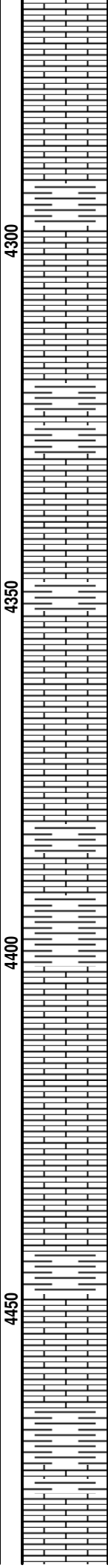
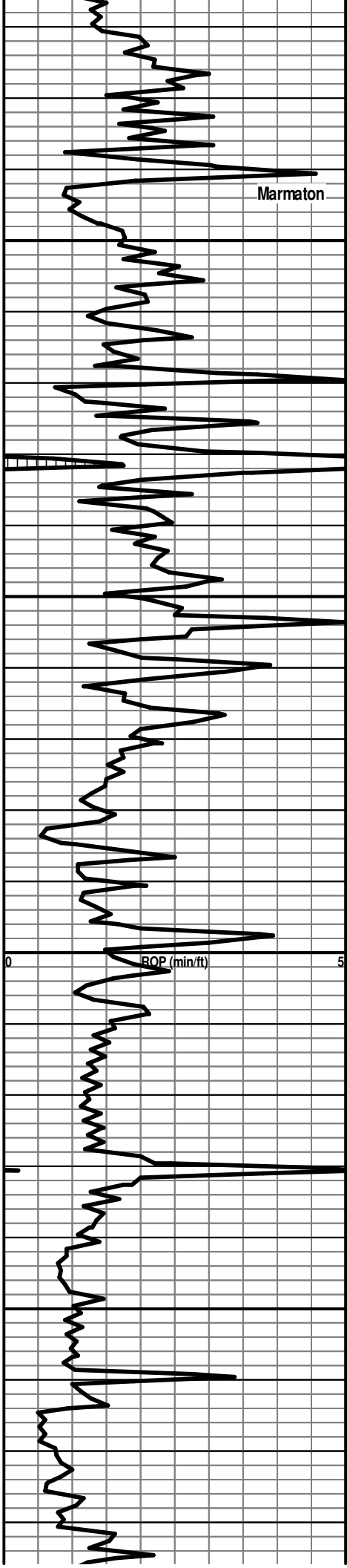
SH: Med brn mot gy to gygn blk calc stly

LS: Mot brn gy micr f xln sbchky dns cln to mrlly ip foss ool with occ moldic por no flor no stn or cut

LS: Med to dk brn to gy f xln dns arg foss pred tt no show

LS: Med to lt mot brn biomcr micxln micsuc brit cln to arg foss nvr tr intxn and moldic por no flor no stn or cut





SH: Brn hd blk calc foss ip

LS: Med to dk brn to gy crpxln hd dns tt no show intbd with SH: Brn hd blk calc foss ip

LS: Lt brn oomicr brit cln v foss & ol with moldic por no flor no stn or cut

SH: Med to dk brn to gy occ blk frm sbfis to blk carb calc intbd with LS: aa no show

LS: Mot brn gy f xln micsuc ip sbchky arg to mrlly ip tr intxln & occ moldic por no flor no stn or cut

SH: Blk frm sbfis carb sl calc with LS: aa

LS: Mot brn gy f xln micsuc ip sbchky arg to mrlly ip tr intxln & occ moldic por no flor no stn or cut

1 TG, C1-C5 100

Contaminated mud - Gas reading remained above 300 Units to TD. No noticeable gas increases noted.

Cherokee

4500

SH: dk bm to gy occ blk frm sbfis to blk calc slty intbd with LS: Mot brn gy f xln micsuc ip sbchky arg to mrly ip tr intxln & occ moldic por no flor no stn or cut

LS: Brn gy crpxln hd dns sil ip foss carb pyr tt no show

4550

SH: Dk bm gy gygn frm blk calc

LS: Lt to med brn to gy f xln dns to tr intxln por cln foss pred tt no show intbd with SH: aa with LS: Lt brn bf micxln micsuc brit cln sbchky foss ool pyr tr intxln & moldic por no flor no stn or cut CHRT: Mot gy mlky gy trnsI hd xln

4600

ROP (min/ft)

SH: Dk gy blk hd slty to sndy ip carb calc mica

LS: Lt to med brn to gy biomicro micro to crpxln pred hd & dns cln foss carb sil p vis por no show with tr CHT: aa intbd with SH: Dk gy blk hd slty to sndy ip carb calc mica

SH: Dk gy blk hd slty to sndy ip carb calc mica

4650

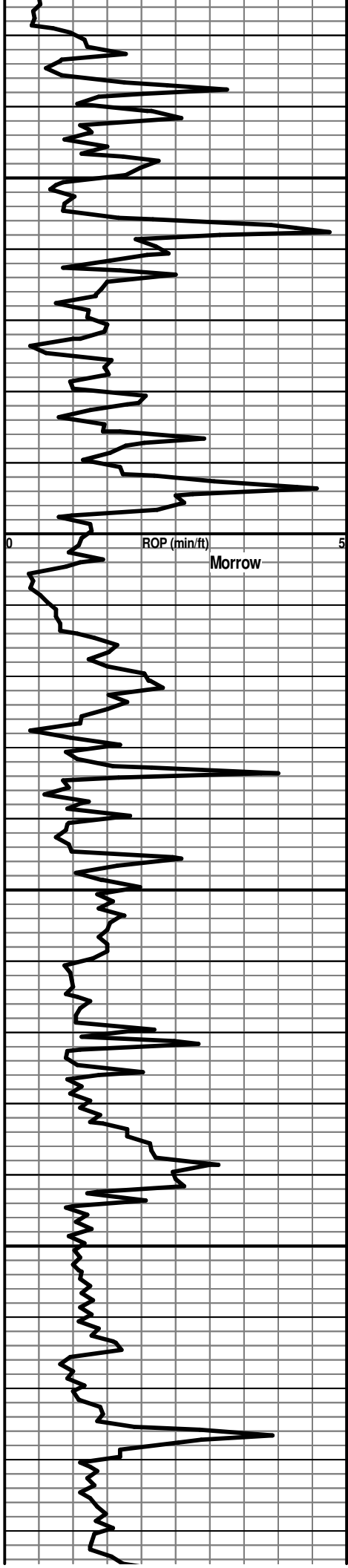
LS: Med to dk mot gy to brn f xln micsuc ip cln to mrly foss carb occ por no flor no stn or cut intbd with SH: Dk gy blk hd slty to sndy ip carb calc mica with CHRT: aa

4700

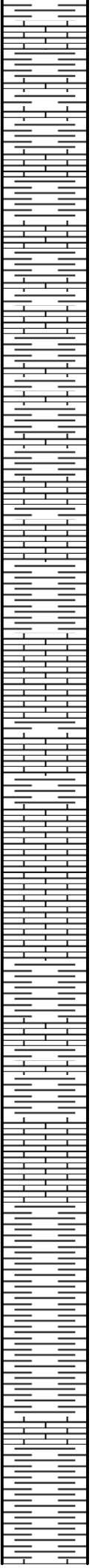
SH: Dk gy blk mot hd blk calc carb sndy occ foss occ intbd with LS: aa

TG, C1-C5

100



4950
5000
5050
5100



SH: Blk frm fis carb mica with SH: Gy blk & slty carb
 incl intbd with LS: Med to dk mot brn to gy micr crpxln
 hd dns ar to mrlly foss tt no show occ micsuc with tr
 intxln por no flor no stn or cut

LS: Med to dk mot brn to gy occ blk micr crpxln hd dns
 arg to mrlly foss tt no show intbd with SH: aa

SH: Blk frm fis wxy to slty ip v carb mics with LS: Dk bm
 to gy occ blk micr crpxln hd dns marl tt no show

LS: Lt mot bm bf micxln micsuc ip sbchky foss arg tt/tr
 intxln por no flor no stn or cut

SH: Blk frm fis wxy to slty ip v carb mica occ intbd with
 mrlly LS: tt no show

SH: Blk frm fis wxy to slty ip v carb mica occ intbd with
 mrlly LS: tt no show

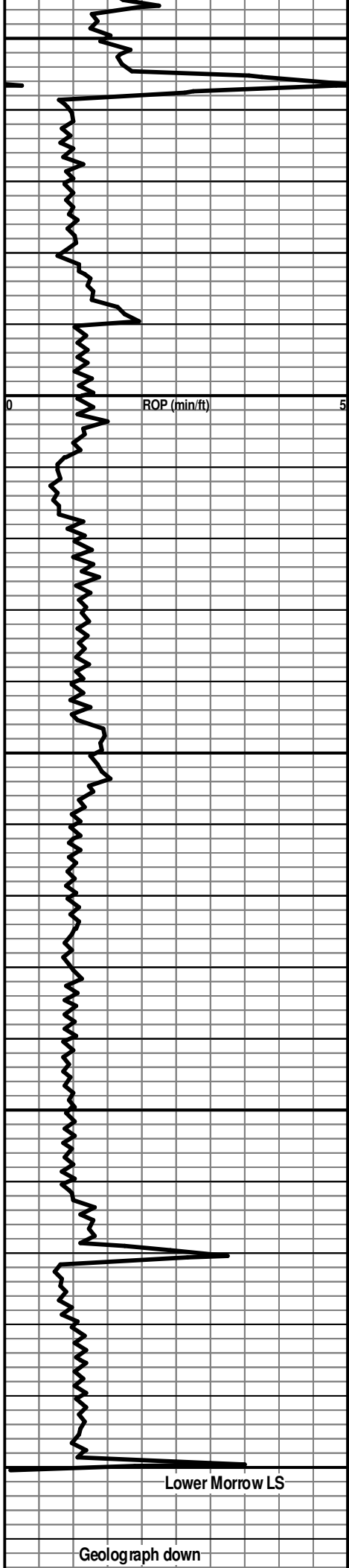
SH: Blk frm fis wxy to slty ip v carb mica occ intbd with
 mrlly LS: tt no show

SH: Blk frm fis wxy to slty ip v carb mica occ intbd with

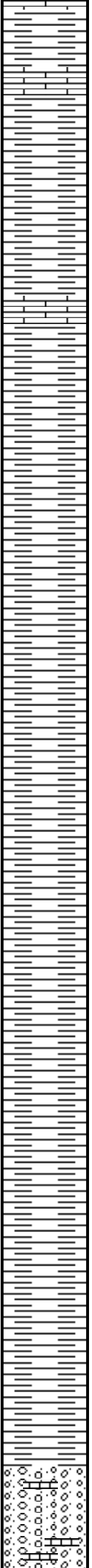
TG, C1-C5

100

Contaminated mud - Gas
 reading remained above 300
 Units to TD. No noticable gas
 increases noted.



5150
5200
5250
5300
5350



mrly LS: tt no show

SH(100% sp!): Blk dk gy frm asbfis to fis carb wxy mica

SH(100% sp!): Blk dk gy frm asbfis to fis carb wxy mica

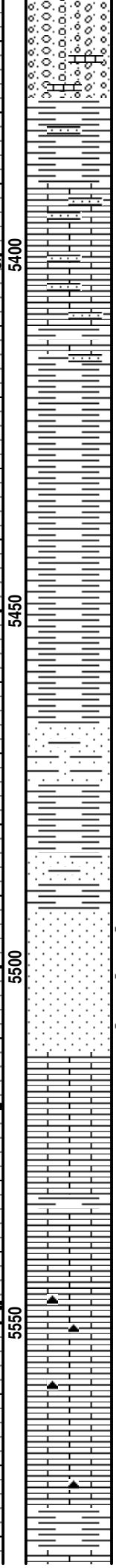
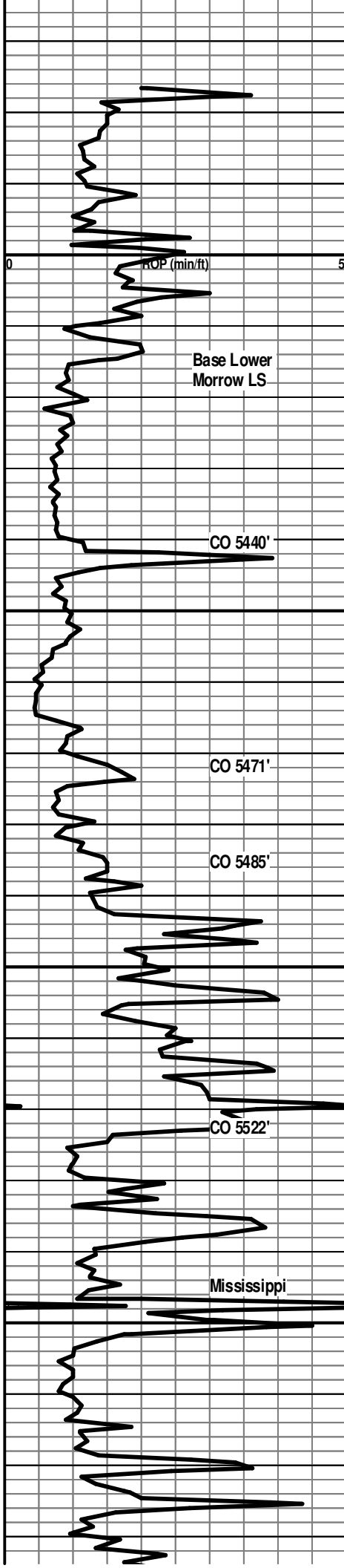
SH(100% sp!): Blk dk gy frm asbfis to fis carb wxy mica

SH(100% sp!): Blk dk gy frm fis wxy carb

SH(100% sp!): Blk dk gy frm fis wxy carb

LS: Mot gy to gn s&p spec gn frm dns f xln sbchky ip micsuc v sndy with m/vc & conglc ip p srted sbang grs glauc ip pyr p vis por no flor no stn or cut grnd to & intbd with Congl: Clr s&p spec gn hd to fri ip vc/conglc p srted sbrng to sbrnd grs calc cmt cln to arg ip glauc pyr occ gd intgran por no show with abt unconsl grs intbd

1	TG, C1-C5	100
---	-----------	-----



with SH: Blk dk gy frm sbfis to blk y wxy to sndy ip carb

LS: Mot brn to gy spec gn s&p spec gn frm dns f xln sbchky ip micsuc v sndy with f/vc & conglc ip p srted sbang grs glauc ip pyr p vis por no flor no stn or cu grdng to & intbd with SS:Clr s&p spec gn hd to fri ip v to conglc p srted sbmg to sbmd grs calc cmt cln to arg ip glauc p vis por no show with abt unconsl grs

Abt c p srted unconsl grs

SH: Blk frm fis wxy carb occ med gy to gygn & blk y with Abt c p srted unconsl grs with abt c p srted unconsl grs

SH: Dk gy blk frm blk y to sbfis wxy to sndy ip carb mica pyr

SS: Spec gn s&p gy hd dns fl/fu w srted sbrnd grs ca cmt cln to arg glauc pyr carb p vis por no flor no stn or cut intbd with SH: aa

- SS(5% sp): Med to lt brn clr trnsl v fri ip mu/fl mod srted sbmd grs sil cmt calc cln carb incld gd intgran por - sm clay infill bri it bl to yel hydc flor(all SS) gd strmg cut lt brn o stn gas bubbles when crushed

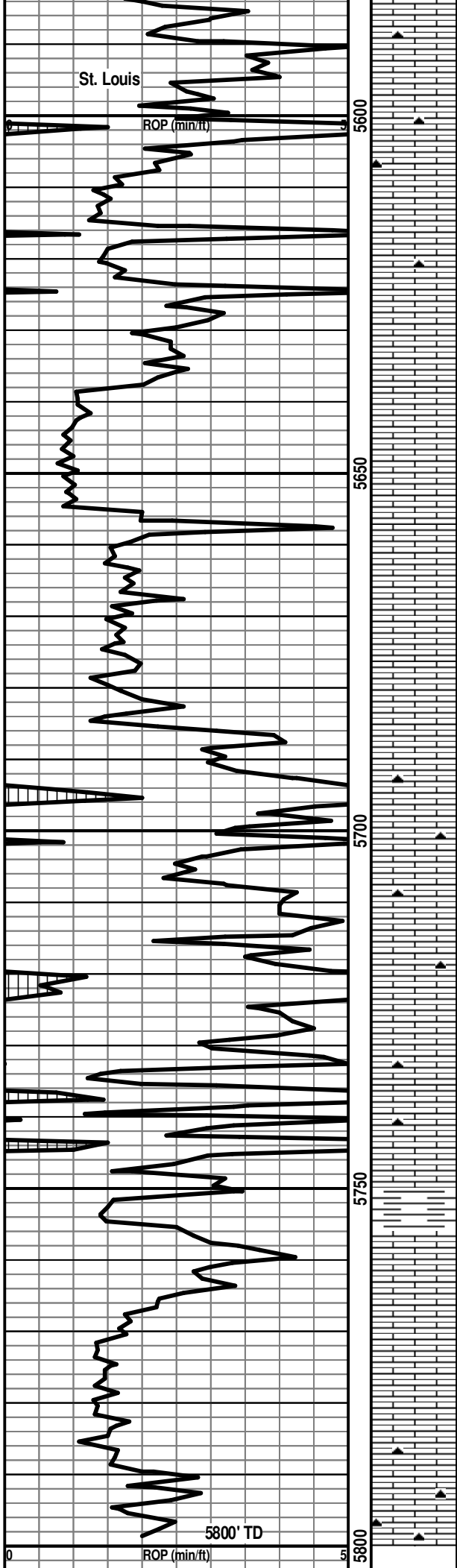
LS: Wh tan to bf micxln micsuc sbchky brit v sndy w f w srted sbrnd grs p vis por no show intbd with SH: Blk frm fis to blk y carb

LS: Lt brn bf micxln micsuc brit v sndy & ool foss cln sl glauc p vis por no show

LS: Wh lt brn bf micxln micsuc sbchky sft brit cln ool foss sndy with f w srted sbmd grs p vis por no flor no stn or cut tr CHRT: Orng mlky wh to gy hd xln tripol ip

SH: Blk frm fis to blk y wxy to sndy ip carb

1	TG, C1-C5	100
---	-----------	-----



CHRT: Trnsl mlky hd xln LS: Lt to med brn bf micxn sbchky v sndy ool occ por pred tt no flor no stn or cut

1 TG, C1-C5 100

LS: Med to lt brn to bf wh biomcr micxn sbchky cln ool & foss sndy ip p vis por no show

LS: Wh lt brn to bf brit chky cln v sndy & ool with intpart por intxn por no flor no stn or cut tr CHRT: Mlky gy to brn occ orng hd xln

LS: Med to lt mot brn bf micr micxn sbchky cln brit v ool with tr intpart por tr intxn por no flor no stn or cut with CHRT

Contaminated mud - Gas reading remained above 300 Units to TD. No noticable gas increases noted.

LS: Med to lt mot brn bf micr micxn sbchky cln brit v ool with tr intpart por tr intxn por no flor no stn or cut with CHRT

LS: Med brn crpxln hd dns sndy & glauc ip cln tt no show

LS: Med to lt bn biomcr f xln sbchky cln foss sndy ip p vis por no show tr CHRT: Trnsl mlky gy hd xln with LS: Med brn crpxln hd dns sndy & glauc ip cln tt no show

SH: Blk frm fis carb

LS: Med to dk brn micr crp/micxn hd dns cln sil foss carb tt n show

Abt CHRT: Mlky wh to gy hd xln LS: Lt to dk brn crpxln hd dns sil tt no show

1 TG, C1-C5 100

