

MBC WELL LOGGING LLC

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

Well Name: HYLBOM B-2 OXY-USA
 Location: FINNEY COUNTY, KANSAS USA
 Licence Number: 5447
 Spud Date: 5-8--2012
 Surface Coordinates: 430'el, 1,784'fml SEC 25 T-23S-R35W
 Bottom Hole: HLS-DIL/SP/GR CNL/CAL/PE/BHV SONIC SFC
 Coordinates: API-15-03-21877-00 AZTEC WELL SERVICING # 34660
 Ground Elevation (ft): 2986' K.B. Elevation (ft): 2997'
 Logged Interval (ft): 3700 To: 5120 Total Depth (ft): ELOG 5117
 Formation: ST LOUIS
 Type of Drilling Fluid: MI DRILLING FLUIDS ISAAC HOLDER ENGINEER
 Region: GARDEN CITY
 Drilling Completed: 5-11-2012
 Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: OCCIDENTAL OIL & GAS CORP.
 Address: DANIEL PRATT % -GEOLOGY
 5 E GREENWAY PLAZA ste 110
 HOUSTON, TEXAS 77046

MUDLOGGER

Name: AUSTIN GARNER
 Company: MBC WELL LOGGING LLC
 Address: 21156 RD 22
 MEADE, KANSAS 67864

ROCK TYPES

	Anhy		Ls & ooids		Sltst		Ss		Sndy-ls-1
	Brec		Oolitic ls -1		Salt		Grn sh strk		Calc shale
	Cht		Stgensndy-1		Sndy sh--reg		Lmy sh-2		Granitewash
	Coal		New ls-1		Sndy sh		Grn mott gy		Ls shly-b
	Congl		Carby shale		Sltst-1		Shale-1		Poor sortd ss
	New dolomite		Lmy carby		Sltly-shale		Red sh-1		Snd-ls-sh
	Dolo new		Carb sh		Lmy ss-1		Stgensndy-arkos		
	Newdolo ls		Gyp		Arkosic snd		Sndy ool ls		

ACCESSORIES

LITHOLOGY

Anhy
Brec
Cht
Coal
Congl
New dolomite
Dolo new
Newdolo ls 2
Ls & ooids
Oolitic ls -1
Stgensndy-arkos
New ls-1
Carby shale
Lmy carby sh-3
Carb sh
Gyp
Sltst
Salt
Sndy sh--red
Sndy sh
Sltst-1
Sltly-shale
Lmy ss-1
Arkosic snd
Ss
Grn sh strk

Lmy sh-2
Grn mott gy sh
Shale-1
Red sh-1
Stgensndy-arkos
Sndy ool ls
Sndy-ls-1
Calc shale
Granitewash
Ls shly-b
Poor sortd ss
Snd-ls-sh

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
New dolostringer
Dol
Fldspr-1
Ferrpel
Ferr
Glau
Gyp

Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Qtz
New symbol
Salt
Sandy
Silt
Sil
Sulphur
Tuff
Styolitic
Slickenside

STRINGER

Anhy
Red sh stringer
Arg
Bent
Coal
Dol
Gyp
Oolls-1

Ls
Mrst
Sltstrg
Ssstrg
Grn sh strk

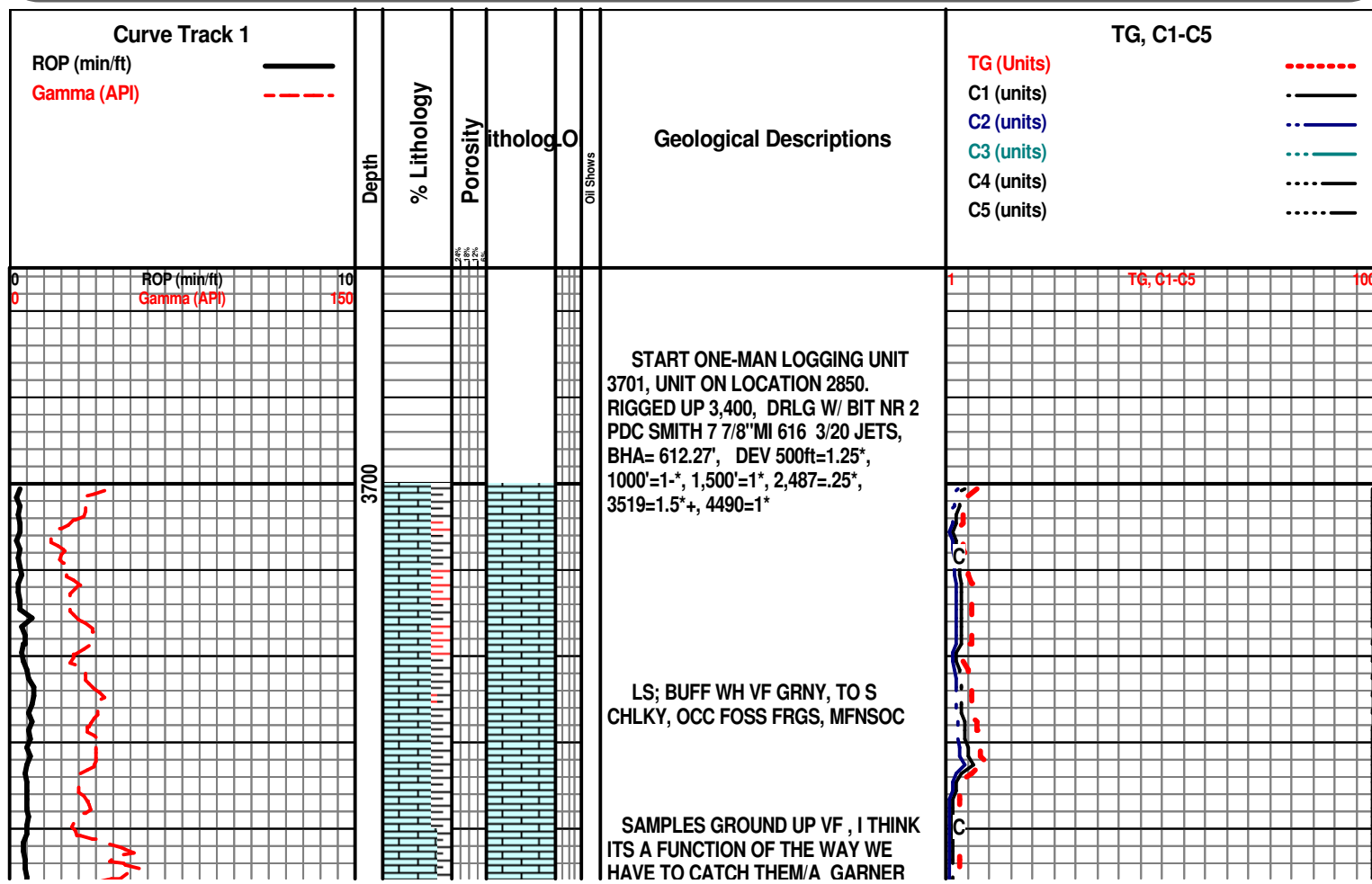
TEXTURE

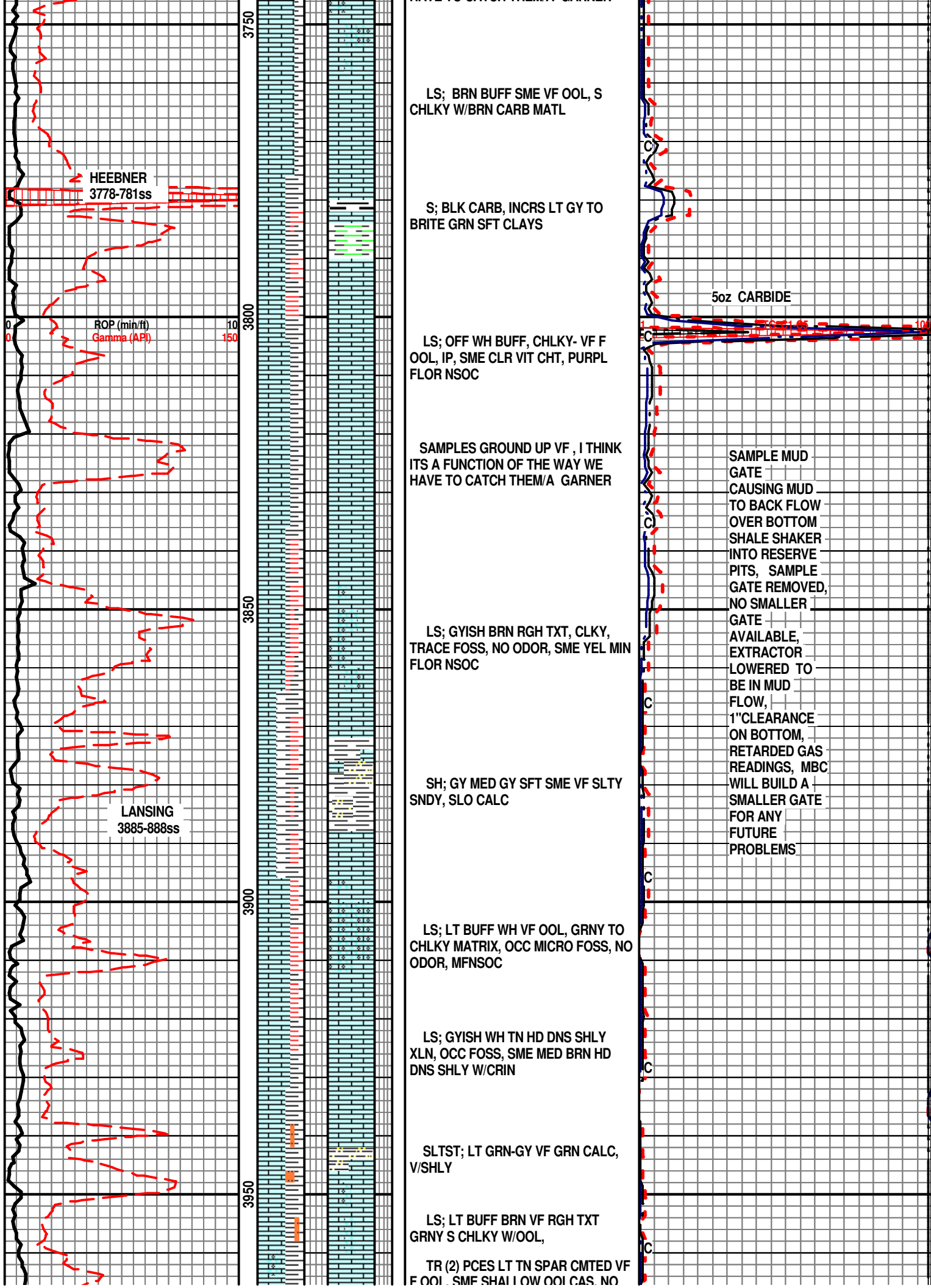
Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

OIL SHOW

Even
Spotted
Ques
Dead

Comments





LS; BRN BUFF SME VF OOL, S
CHLKY W/BRN CARB MATL

S; BLK CARB, INCRS LT GY TO
BRITE GRN SFT CLAYS

LS; OFF WH BUFF, CHLKY- VF F
OOL, IP, SME CLR VIT CHT, PURPL
FLOR NSOC

SAMPLES GROUND UP VF, I THINK
ITS A FUNCTION OF THE WAY WE
HAVE TO CATCH THEM/A GARNER

LS; GYISH BRN RGH TXT, CLKY,
TRACE FOSS, NO ODOR, SME YEL MIN
FLOR NSOC

SH; GY MED GY SFT SME VF SLTY
SNDY, SLO CALC

LS; LT BUFF WH VF OOL, GRNY TO
CHLKY MATRIX, OCC MICRO FOSS, NO
ODOR, MFNSOC

LS; GYISH WH TN HD DNS SHLY
XLN, OCC FOSS, SME MED BRN HD
DNS SHLY W/CRIN

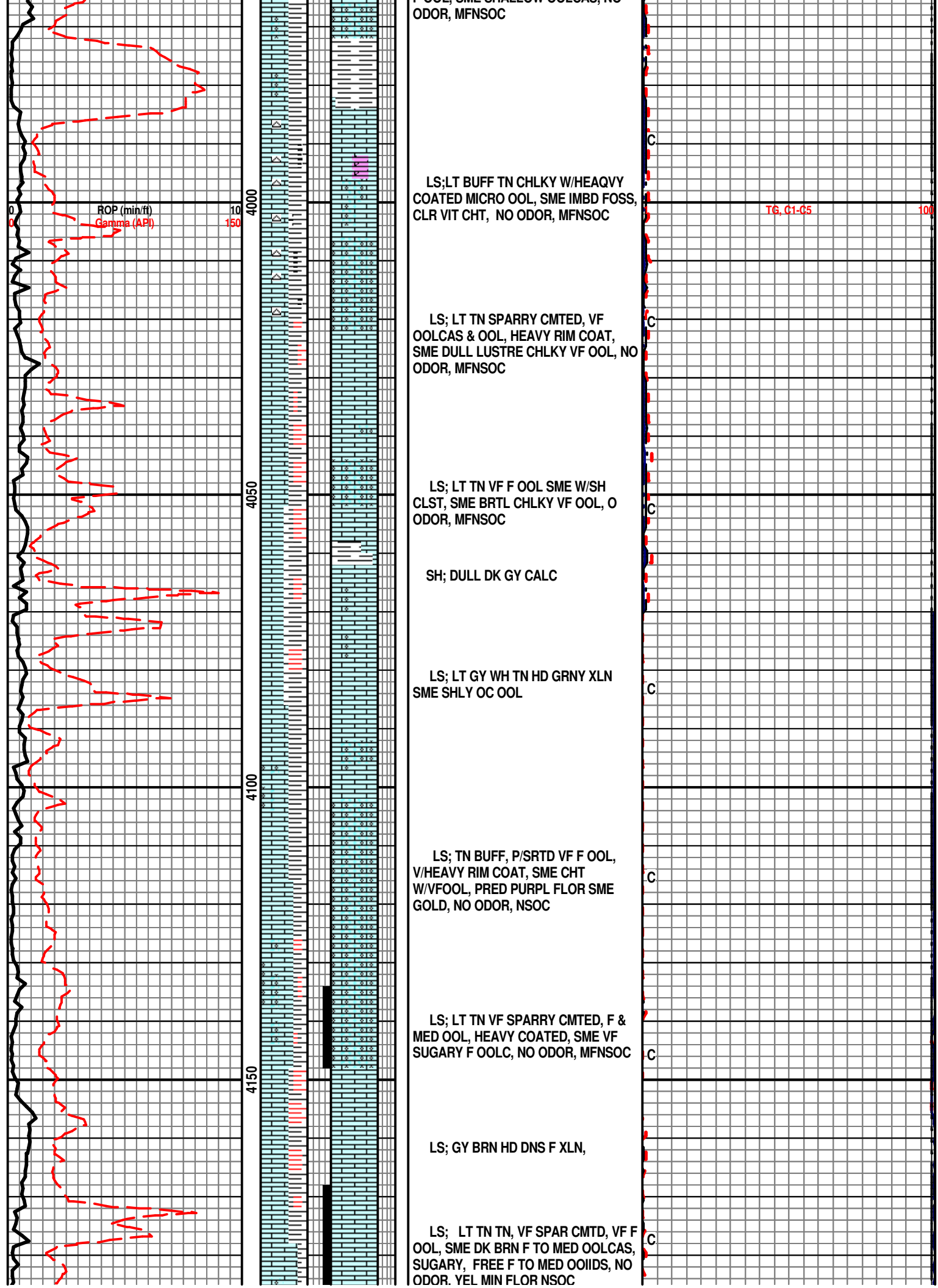
SLTST; LT GRN-GY VF GRN CALC,
V/SHLY

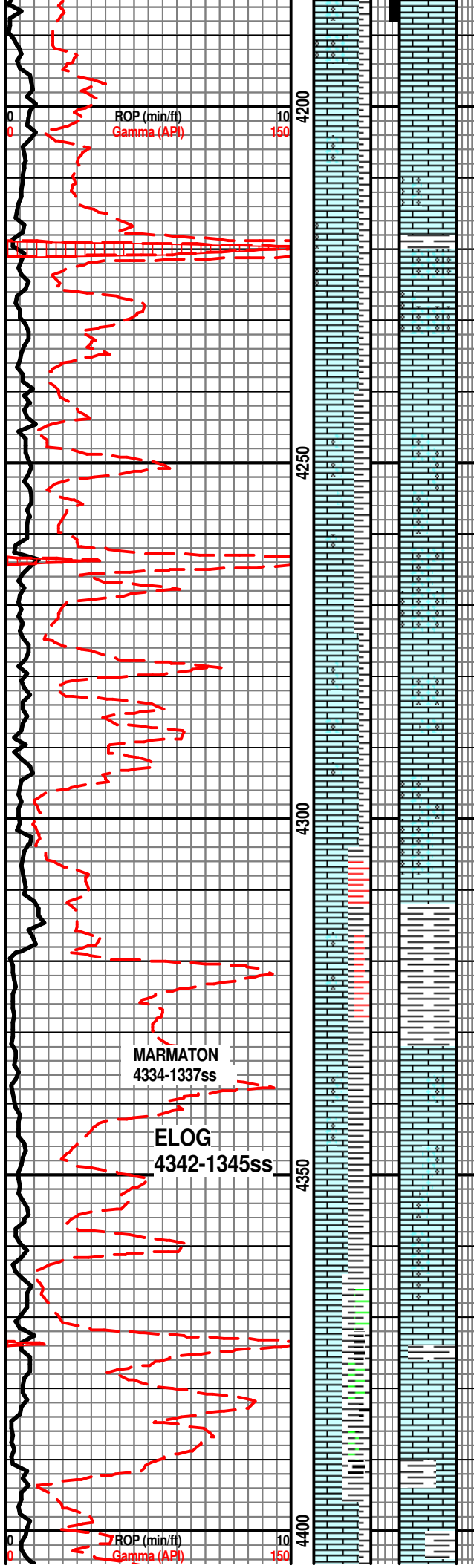
LS; LT BUFF BRN VF RGH TXT
GRNY S CHLKY W/OOL,

TR (2) PCES LT TN SPAR CMTE VF
F OOL, SME SHAL LOW OOL CAS, NO

5oz CARBIDE

SAMPLE MUD
GATE
CAUSING MUD
TO BACK FLOW
OVER BOTTOM
SHALE SHAKER
INTO RESERVE
PITS, SAMPLE
GATE REMOVED,
NO SMALLER
GATE
AVAILABLE,
EXTRACTOR
LOWERED TO
BE IN MUD
FLOW,
1" CLEARANCE
ON BOTTOM,
RETARDED GAS
READINGS, MBC
WILL BUILD A
SMALLER GATE
FOR ANY
FUTURE
PROBLEMS





LS; TN BRN F OOLC, & OOL SPAR
CMTD, NO ODOR, MIN FLOR NSOC

LS; GY BRN HD DNS SHLY XLN,
SME CHLK EDGES, OCC FOSS FRGS

LS; GY P/SRTD F & MED OOL, SME
FOSS FRGS, BLK SH CNTR IP, NO
ODOR, MFNSOC

LS; BRN TN VF CLR SPAR CMT, F
OOL XLN, TR FOSS, TR SH CNTR, NO
ODOR, MFNSOC

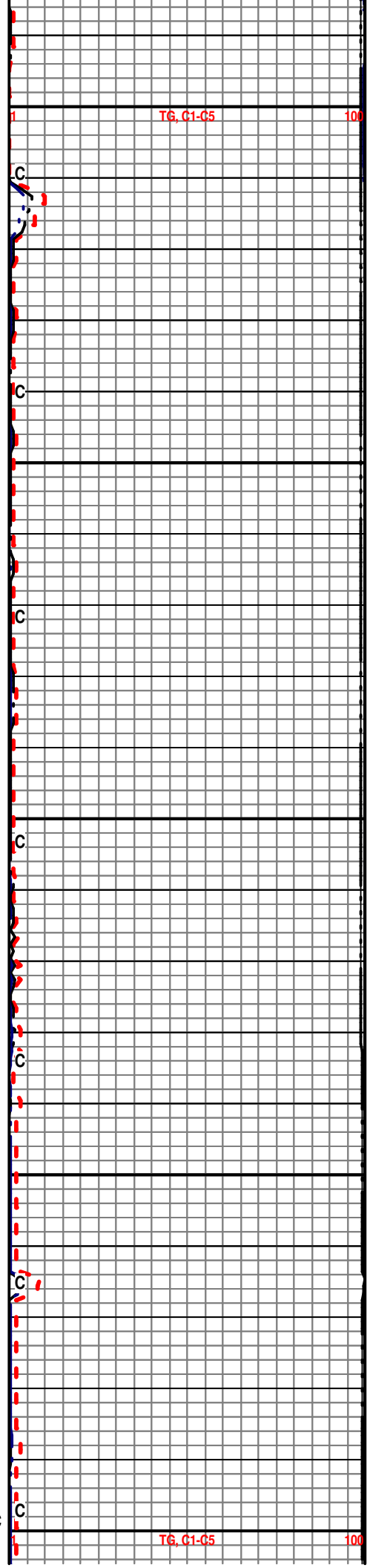
SH; GY DK GY SFT FISS, PYR, SME
SFT GRN & GRNMOTT GY

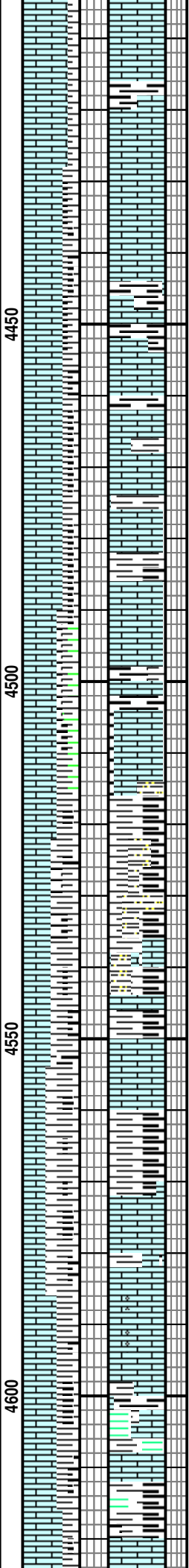
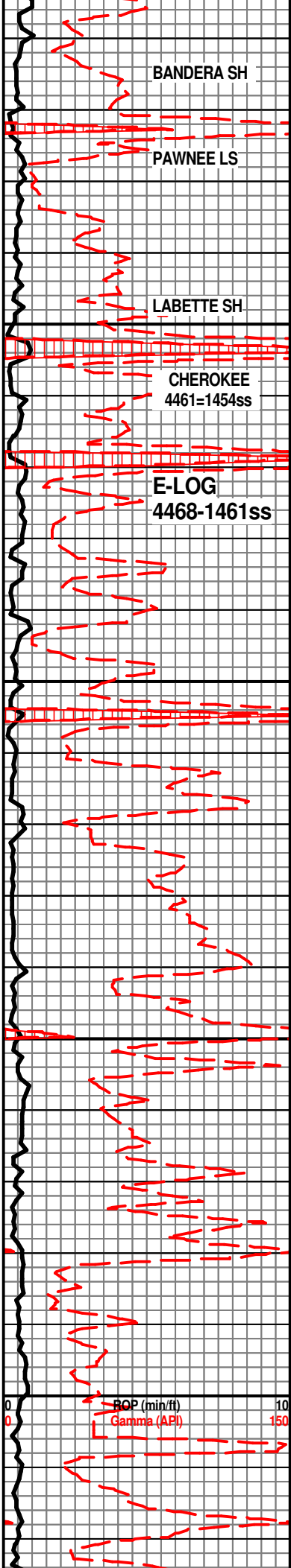
LS; BRN TN OFF WH CHLKY VF
OOL, WH VIT CHT, SME DK GY SHLY,
NO ODOR, MFNSOC

LS; GY BRN SPARITIC, VF DETRT,
FOSS PCES, SME SHLY, NO ODOR,
MFNSOC

SAMPLES GROUND UP VF

LS; LT TN SPAR CMTD TR F OOLC
& OOL, LTHIN RIM COAT, NO ODOR,
SCATT VFI MIN FLOR NSOC





SH; BLK CARB

LS; TN/WH DULL LUSTRE W/ TRACE FOSS, BRN SHLY NO ODOR, MFNSOC

SH; BLK CARB SME W/CRIN

LS; TN DIRTY GY WH CHLKY W/SME FOSS, SILIC UP

SH; BLK SFT CARB

LS; BRN GY HD SHLY XLN, PYR,

DKS GY BLK DULL VF RGH TXT SH SME W/CRIN

LS; TN GY HD DNS SHLY XLN

SH; BLK DULL DK GY CARB

LS; TN GY HD DNS VF XLN FOSS FRGS,

SH; BRN DK GY BLK LMY, SME CALCITIC SLTY MICRO SNDY

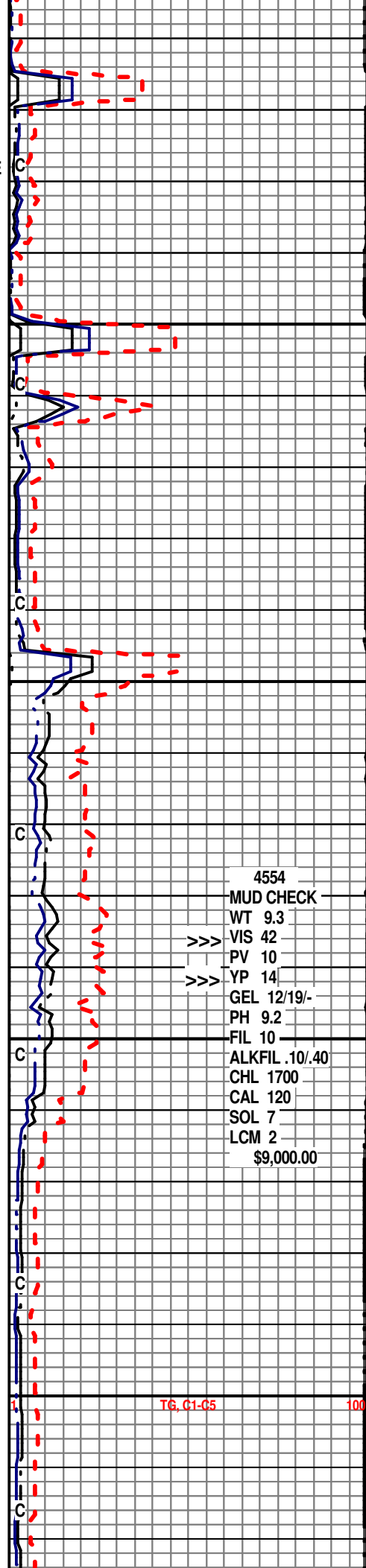
SH; DK GY BRN-GY MICRO AREN LMY SLTST

SH; BRN MED TO DK GY BLK, CARBY SME MOTT GRN

LS; OFF WH GY SLI BRN, HD DNS FOSS TUBES, TR SHDW VF OOL, NO ODOR, MFNSOC

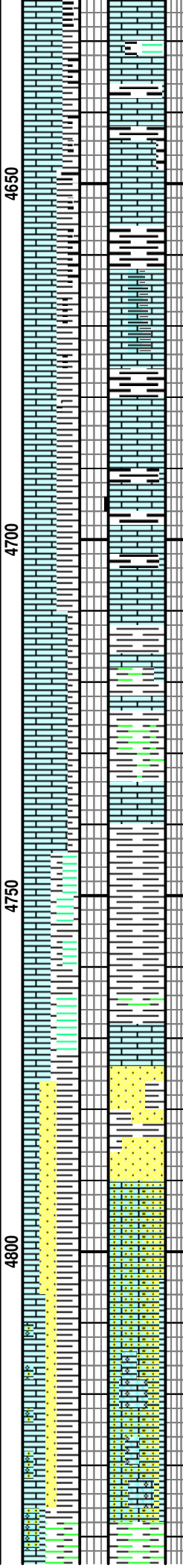
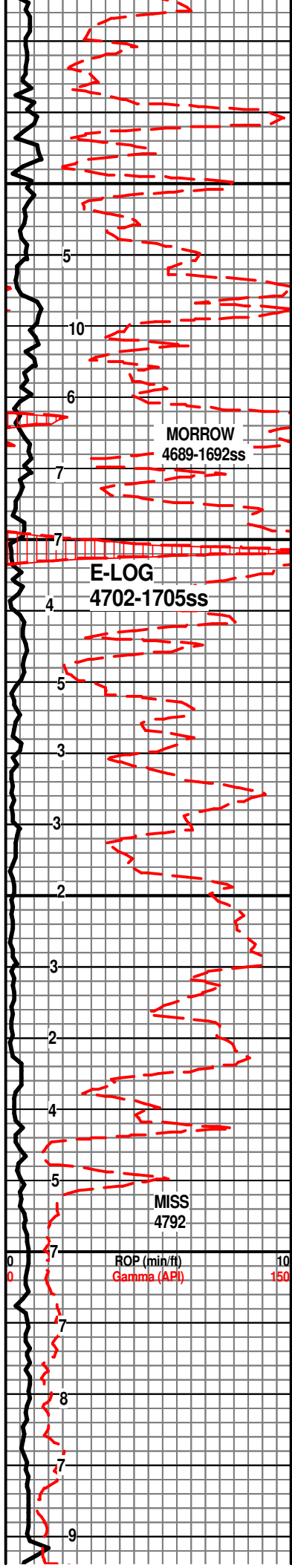
LS; DIRTY RN GY, HD DNS, TR SHDW VF OOL, NO ODOR, SME MFNSOC FOSS TUBES

SH GRN SFT TO BLKY BLKLY CARBY W/PYR



4554
MUD CHECK
WT 9.3
VIS 42
PV 10
YP 14
GEL 12/19/-
PH 9.2
FIL 10
ALKFIL .10/.40
CHL 1700
CAL 120
SOL 7
LCM 2
\$9,000.00

TG, C1-C5



LS; TN MOTTY GY GY HD DNS XLN
SHLY CHOR, & FOSS, INTBD BLK
CARBY SH

SAMPLES REMAIN GROND UP VF

SHS BLK CARB

LS; MOT GY WH XLN SHLY

LS; DIRTY BRN WH DK GY SLY,
FOSS, HD XLN

SH; DK GY BLK SFT CARB, SME
BRITE YEL/TINT GRN

LS; BRN FOSS FRGMTL, CHOR,
GLAU, CONMGLD OOL & FOSS, POSS
ODOR, (3) PCES SPKLD YEL FLOR,
BLK PROB D.O.S. V/SLO THIN CUT

SH; GRN GY SFT FISS

SAMPLES GROUND UP VF TRASHY

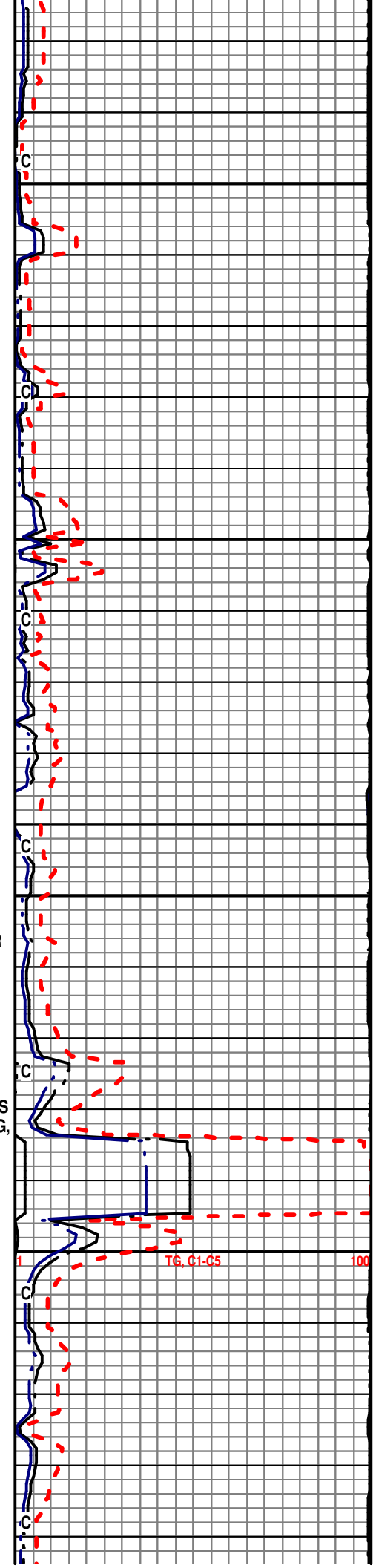
SH; GY SFT FISS SME GRN W/PYR

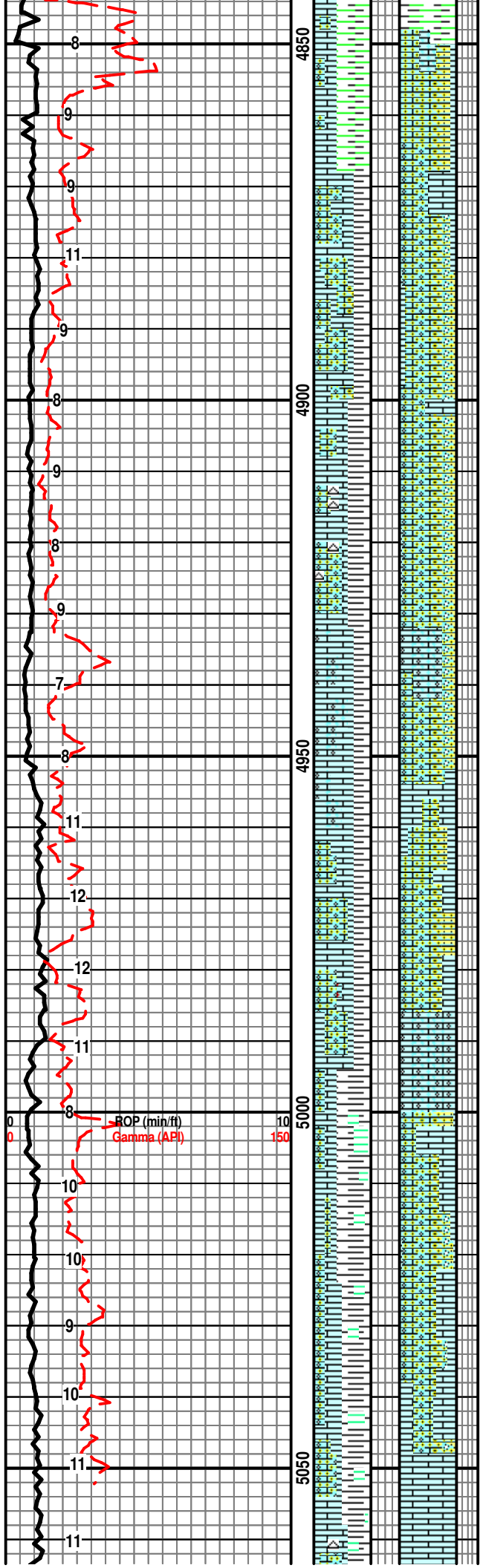
SS; BRN ,CLR, VF F W/SRD S-RD SS
CLSTRS (3 PCE), OVER ALL BRN STNG,
80% FREE S-RD QTZ, TR FAINT
ODOR,SS, TR RAINBOW SHEEN IN
RINSE WATER, NO FREE OIL, GOOD
POR IN (3 CSTR PCES) REMAINDER
TITE, SLO THIN MILKY CUTY

LS; OFF WH SLI BRN VF GR AREN,
NO ODOR, NO VIS FLOR NSOC

SAMPLES ARE TRASHY

LS; WH OFF WH AREN OCC OOL
PELL





SH; GRN GRN MOTT GY SFT FISS

LS; OFF WH SLI BUFF VF AREN
SME VF OOL, COMNGLD OOL & AREN

LS; OFF WH TN SPARITIC IP, CHLKY
VF OOL, IMBD RD CLR F QTZ, NO
ODOR, PURPL FLOR NSOC

LS; OFF WH SLI BUFF, DULL
LUSTRE, CHLKY, IP, VF OOL, TR CHOR,
OPAQ TO TN ANG VIT CHT, TR W/TN
VF OOIDS, W/SPAR CMT, NO ODOR,
PURPL FLOR NSOC

LS; WH OFF WH, CHLKY W/VF CLR
XTL CMT, HEAVY COATED OOIDS, NO
ODOR, V/FAINT GOLD TINT PURPL
FLOR, NO CUT

LS; TN WH HD VF F OOL, OCC FOSS
BRN CHT, SME AREN

