



Exploration Services LLC

5208 W. Reno, Suite 325
Oklahoma City, OK 73127-6319
Office (405) 606-2701, Fax (405) 606-2700

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

Well Name: Sandridge Energy, Inc.
Location: SEC 10-T31S-R20W
Licence Number: API#15033
Spud Date: 1/13/12
Surface Coordinates: 1600' FSL & 353' FWL OF SW/4

LUKE 1-10 SWD
COMANCHE CO. KS
Region: ARBUCKLE
Drilling Completed: 1/27/12

Bottom Hole
Coordinates:
Ground Elevation (ft): 2032' **K.B. Elevation (ft):** 2052'
Logged Interval (ft): 1300' **To:** 1/27/12 **Total Depth (ft):** 6,859'
Formation: Arbuckle
Type of Drilling Fluid: Water based mud

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

OPERATOR

Company: Sandridge Energy, Inc.
Address: 123 Robert S. Kerr Avenue
Oklahoma City, OK 73102
405-429-5720

GEOLOGIST

Name: KATHY GENTRY
Company: Sandridge Energy, Inc.
Address: 123 Robert S. Kerr Avenue
Oklahoma City, OK 73102
405-429-5738 - off.

Drilling Co.

TOMCAT Rig #3

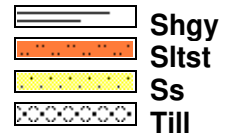
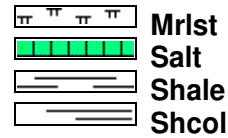
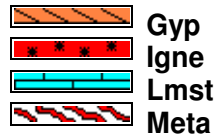
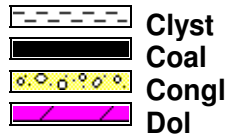
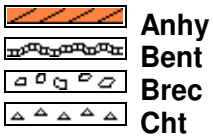
Mudlogging Co.

PML Exploration Services LLC
5208 W. Reno, Suite 325
Oklahoma City, OK 73127
405-702-5415

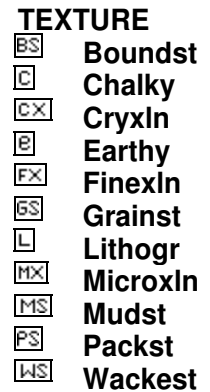
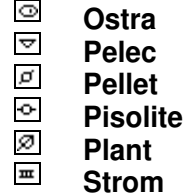
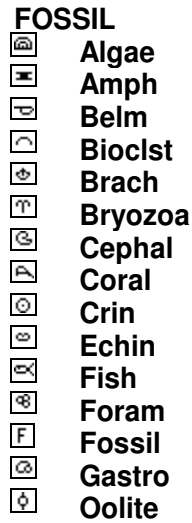
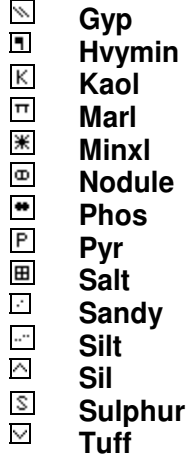
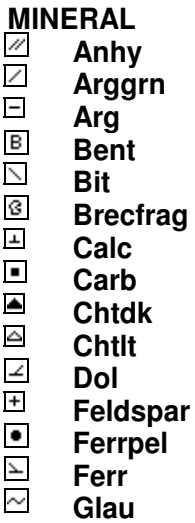
Data Analysts: ERIC SALDANA / BRAD HORN

Mud Co.

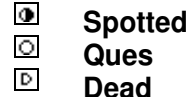
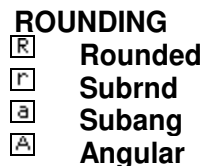
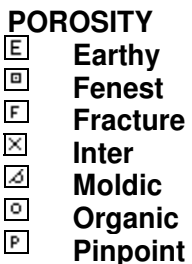
ROCK TYPES

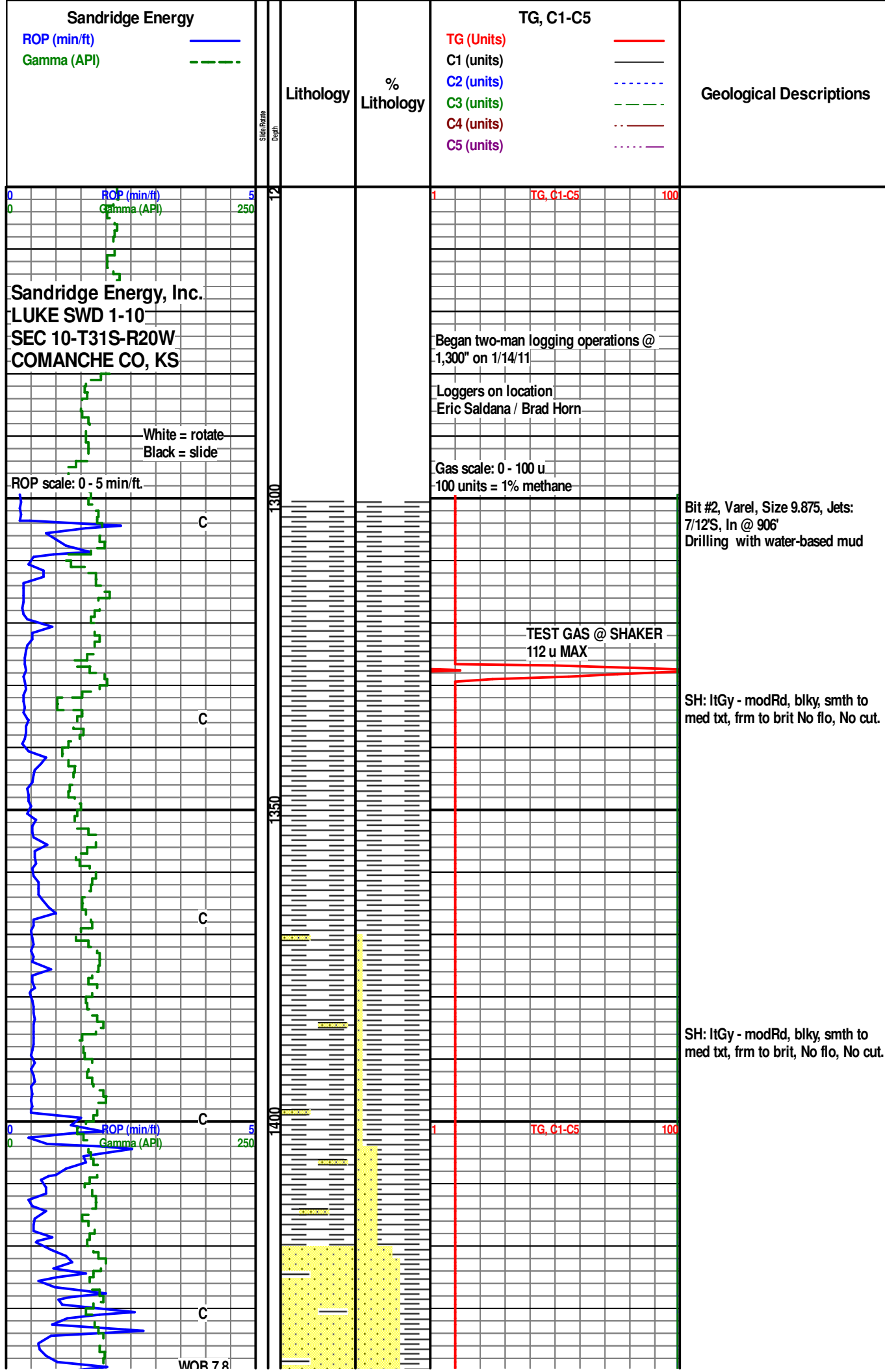


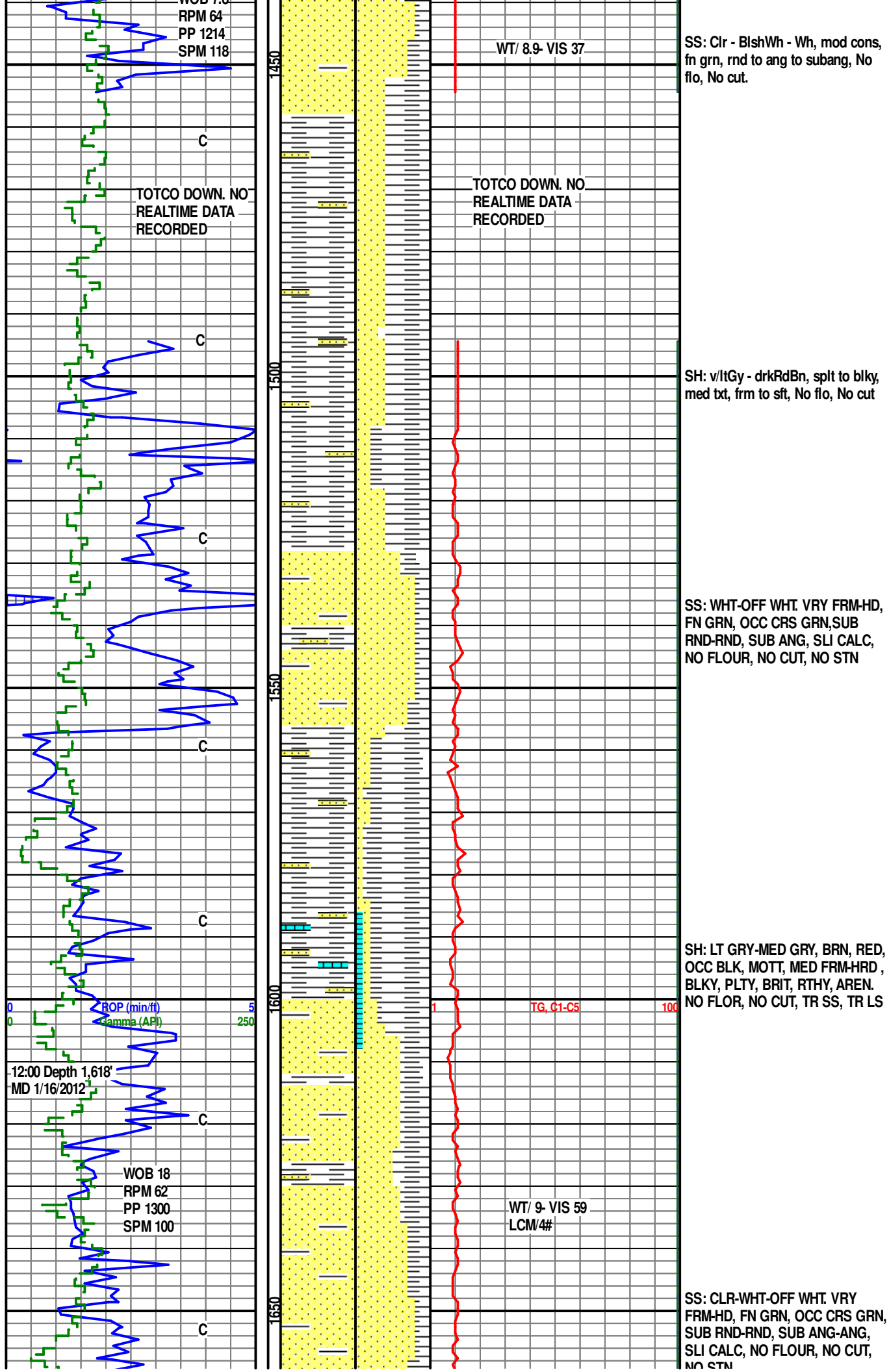
ACCESSORIES



OTHER SYMBOLS







NO STN

BYPASSING SHAKERS TO
MAINTAIN LCM

SS: CLR-WHT-OFF WHT. VRY
FRM-HD, FN GRN, OCC CRS GRN,
SUB RND-RND, SUB ANG-ANG,
SLI CALC, NO FLOUR, NO CUT,
NO STN

SH: LT GRY-MED GRY, DRK BRN,
OCC BLK, MOTT, MED FRM-SFT ,
BLKY, PLTY, BRIT, RTHY, AREN.
NO FLOR, NO CUT, TR SS

SS: Clr - Opq - Wh, mod cons, fn
grn, rnd to subrnd, ang to subang,
w srted, calc cmt, no flor, no cut,
no rng.

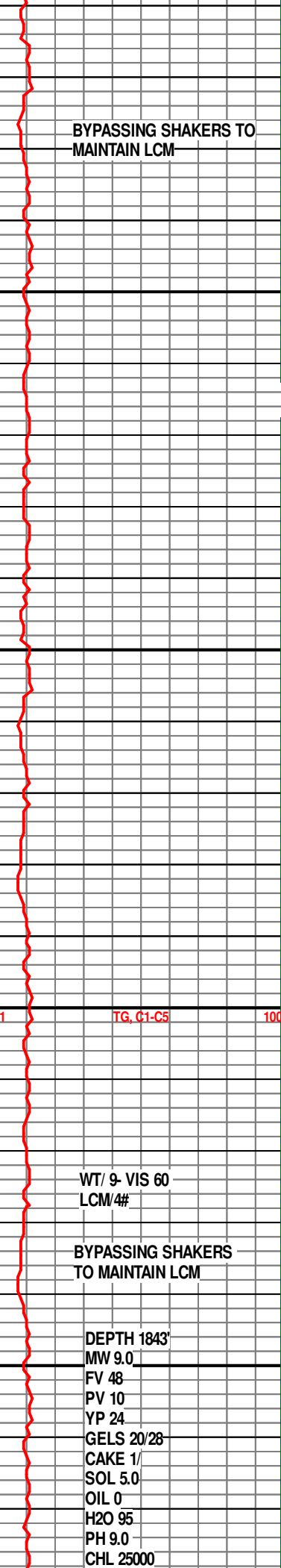
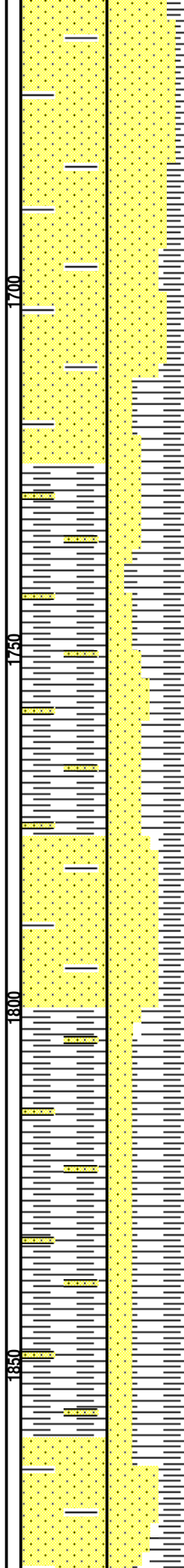
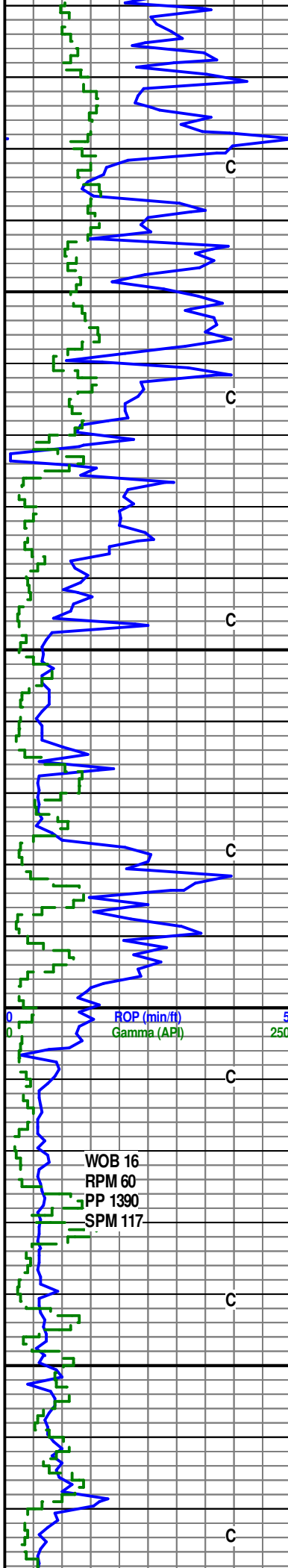
TG, C1-C5

WT/ 9- VIS 60
LCM/4#

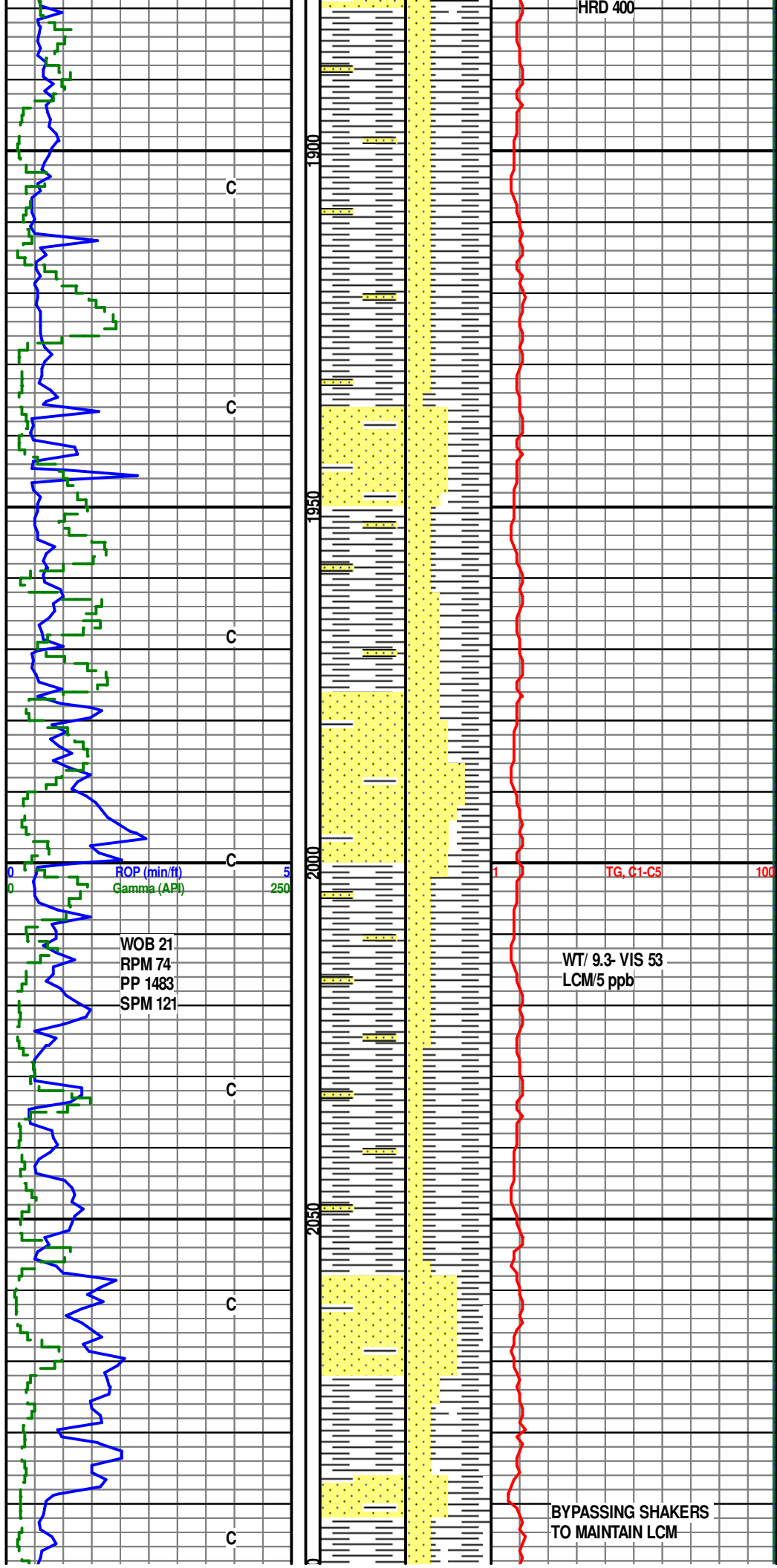
BYPASSING SHAKERS
TO MAINTAIN LCM

DEPTH 1843'
MW 9.0
FV 48
PV 10
YP 24
GELS 20/28
CAKE 1/
SOL 5.0
OIL 0
H2O 95
PH 9.0
CHL 25000

SH: ltGy - medltGy - occ Blk, drk
Brn, mott, blk, Occ plty, med
frm-sft, slty txt, brit, no flor, no
cut, no rng



HRD 400



SS: Clr - Opq - Wh, mod cons, fn grn, rnd to subrnd, ang to subang, w srted, calc cmt, no flor, no cut, no rng.

SH: ltGy - medltGy - occ Blk, drk Brn, mott, blk, med frm-sft, slty txt, brit, no flor, no cut, no rng

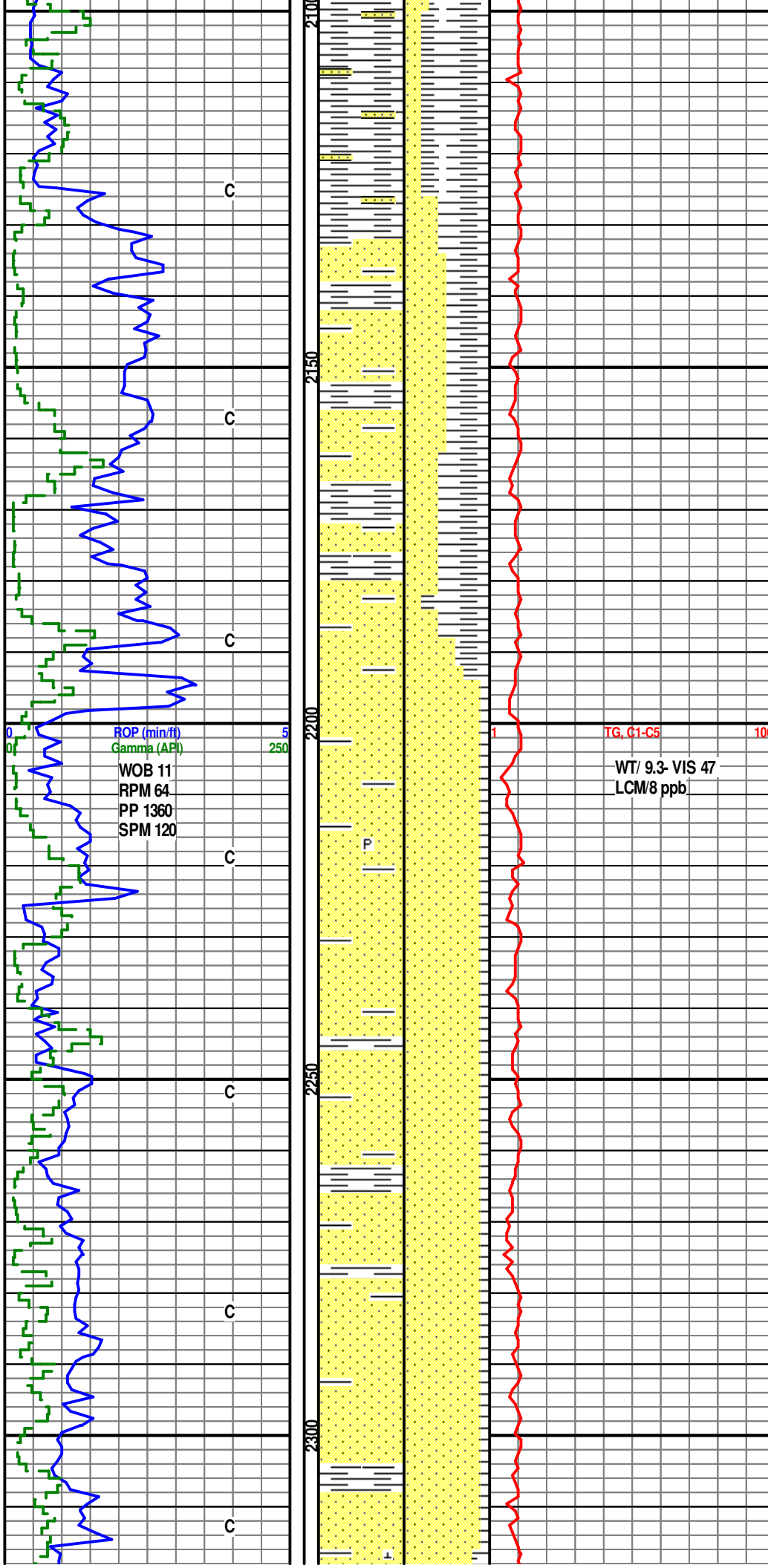
SS: Clr - Opq - Wh, mod cons, fn grn, rnd to subrnd to subang, w srted, calc cmt, tr imbd PYR, no flor, no cut, no rng.

BYPASSING SHAKERS TO MAINTAIN LCM

SH: LT GRY-MED GRY, DRK BRN,
SME OCC BLK, MOTT, MED
FRM-SFT , BLKY, PLTY, BRIT,
RTHY, SME SLTY, NO FLOR, NO
CUT, TR SS

SS: Clr - Opq - Wh, mod cons, fn
grn, Occ Crs, rnd to subrnd to
subang, w srtd, calc cmt, tr imbd
PYR, no flor, no cut, no rng.

SS: Wh - off wht - clr- ltBn -
modBn, w cons, med to crs grn,
subang to rnd, mody srtd, calc
cmt, fr intgr por, no stn, no flor,
no o flor, no cut, no rng.

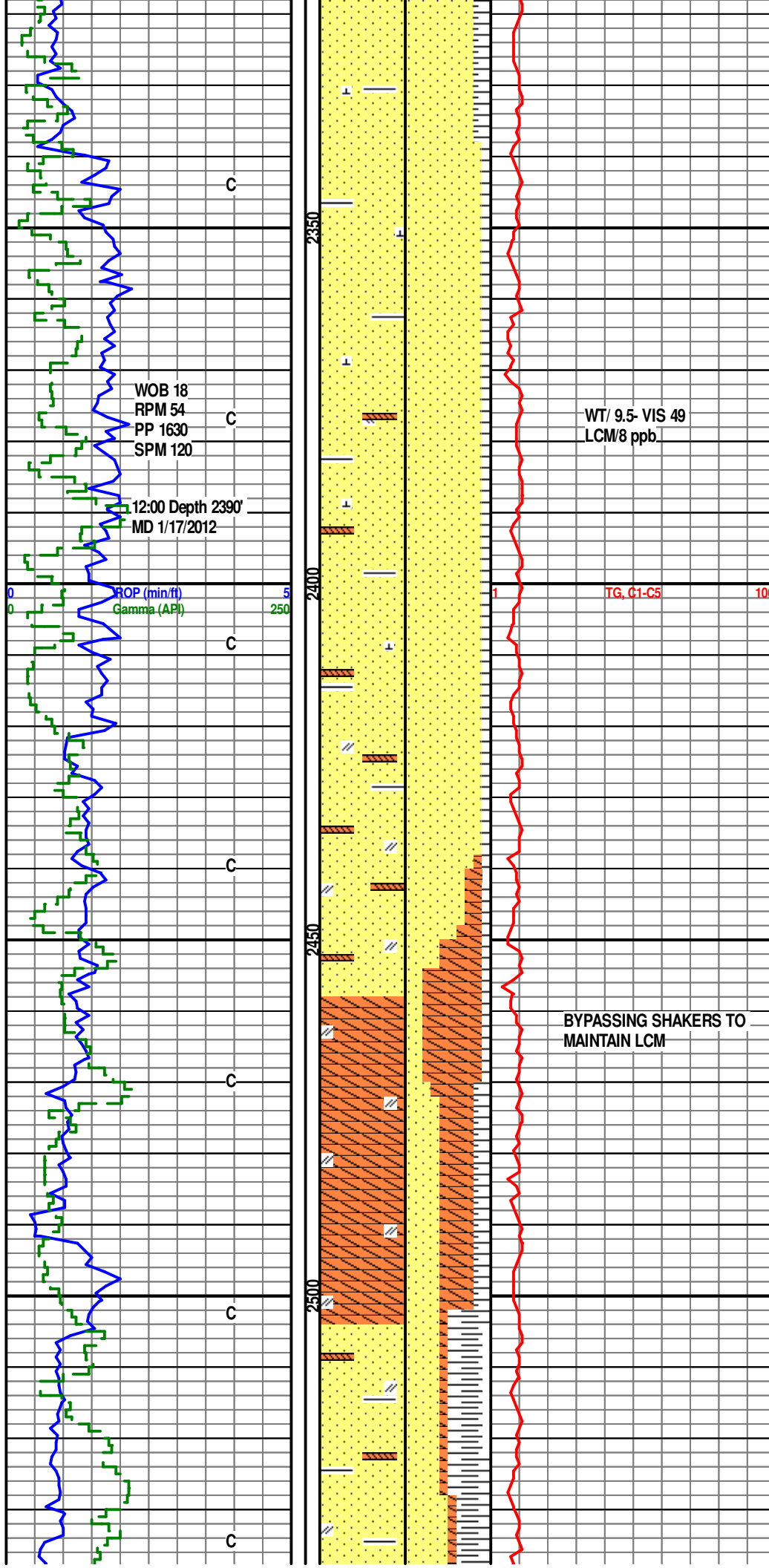


SS: Wh - off wht - clr- ltBn -
modBn, w cons, med to crs grn,
subang to rnd, mody srtd, calc
cmt, fr intgr por, no stn, no flor,
no o flor, no cut, no rng.

SS: Wh - off wht - clr- ltBn -
modBn, w cons, med to crs grn,
subang to rnd, mody srtd, calc
cmt, fr intgr por, no stn, no flor,
no o flor, no cut, no rng.

GYP: LT BRN-TN, SME TRANSII
SL FRM, FRCTRD FACES, BLKY,
ANG-SUB ANG, TR SS, TR SH,
LT YEL MIN FLOR, NO CUT

GYP: LT BRN-TN, SME TRANSII
SL FRM, FRCTRD FACES, BLKY,
ANG-SUB ANG, TR SS, TR SH,



LT YEL MIN FLOR, NO CU

WOB 19
RPM 75
PP 1429
SPM 119

WT/ 9.3- VIS 47
LCM/5 ppb

C

C

C

C

C

C

WOB 20
RPM 71
PP 1413
SPM 119

C

ROP (min/ft)
Gamma (API)

TG, C1-C5

DEPTH 2731'
MW 9.2
FV 41
PV 10
YP 25
GELS 20/26
CAKE 1/
SOL 6.5
OIL 0
H2O 93.5
PH 9.0
CHL 30000
HRD 400

SS: Wh - off wht - clr- ltBn -
modBn, w cons, med to crs grn,
subang to rnd, mody srtd, calc
cmt, fr intgr por, no stn, no flor,
no o flor, no cut, no rng.

SS: Wh - ltBn - modBn, w cons,
med to crs grn, subang to rnd,
mody srtd, calc cmt, fr intgr por,
no stn, no flor, no o flor, no cut,
no rng.

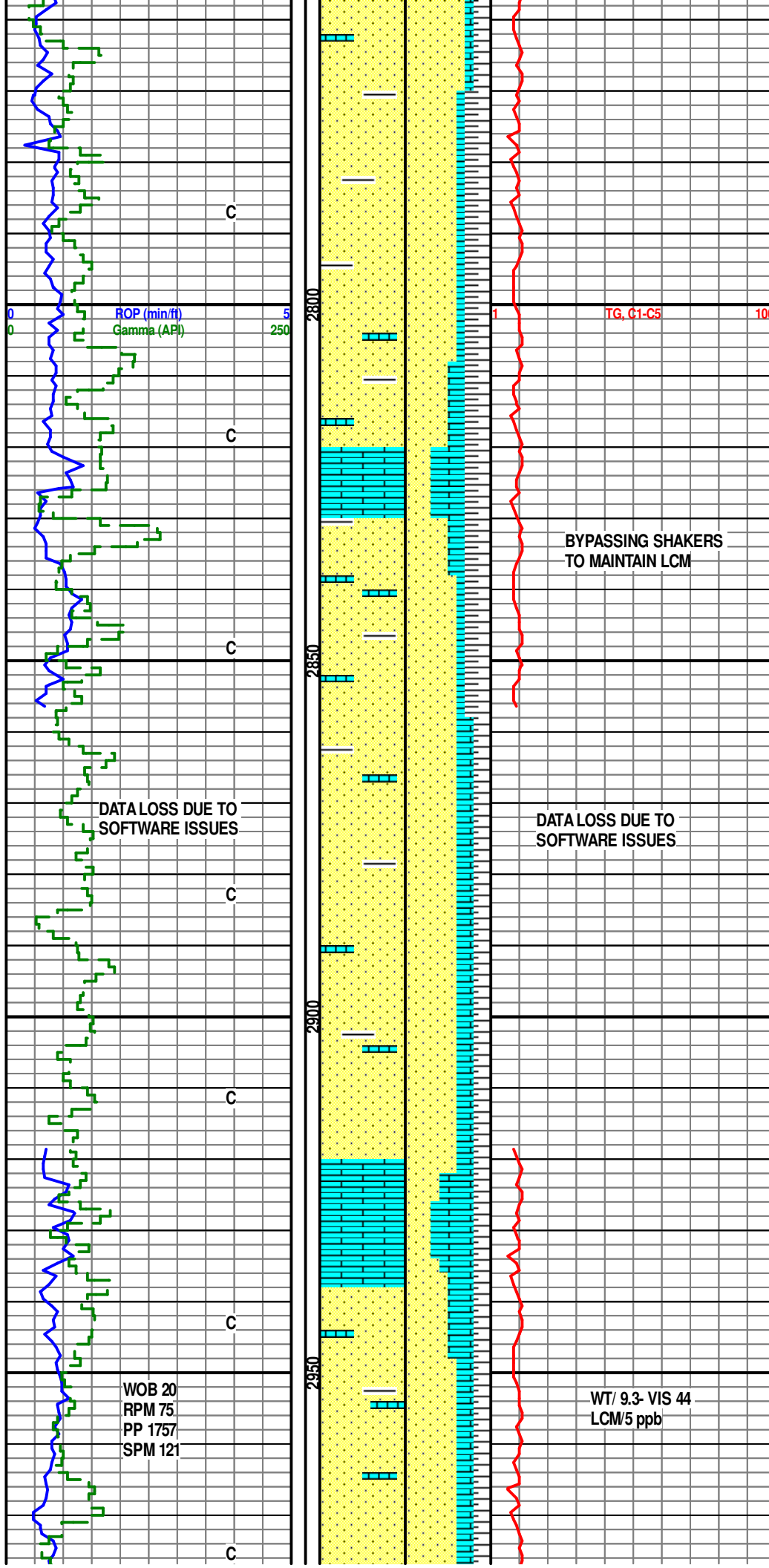
SS: Wh - ltBn - modBn, w cons,
med to crs grn, subang to rnd

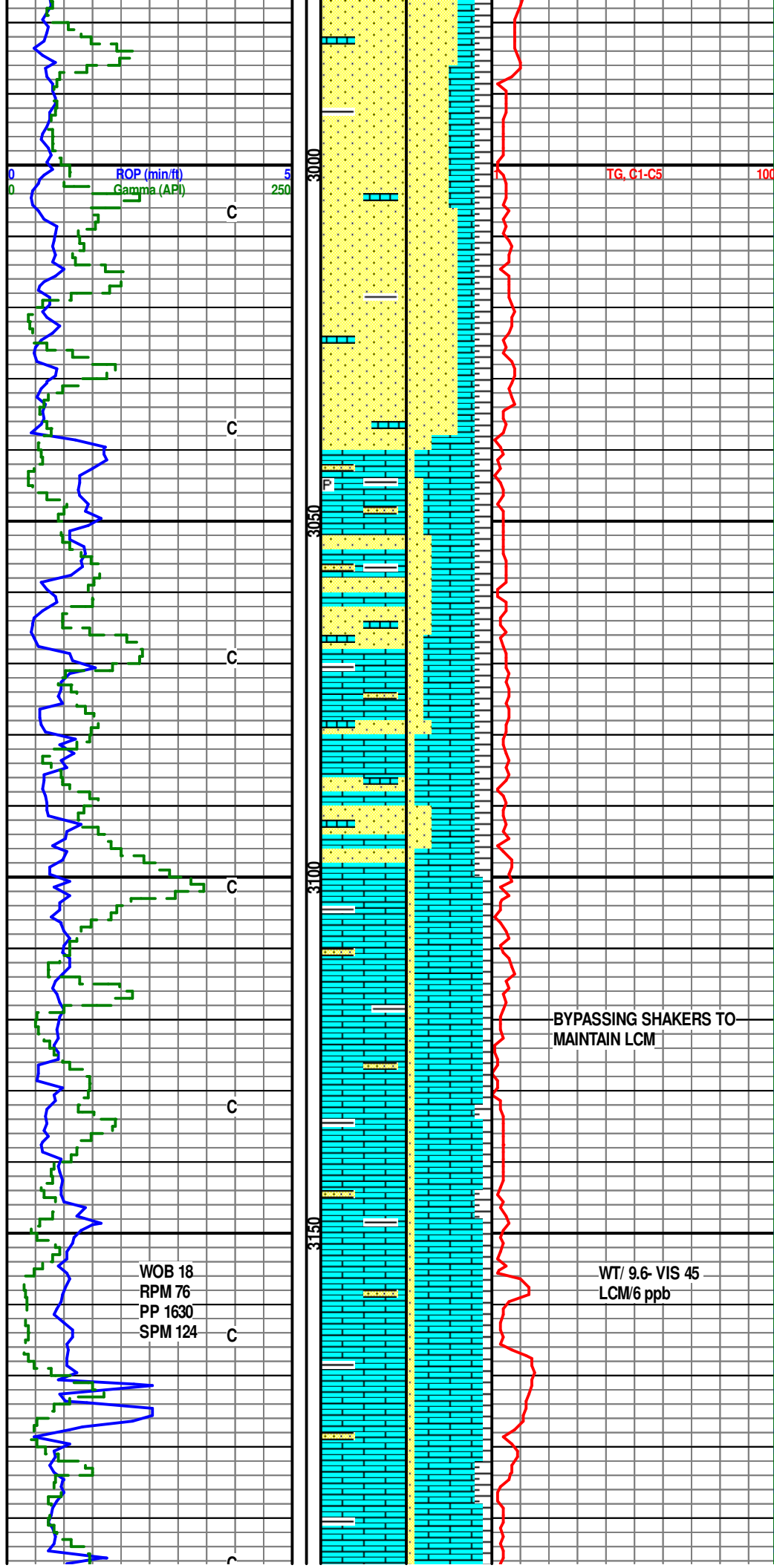
med to crs grn, subang to rnd,
mody srtd, calc cmt, fr intgr por,
no stn, no flor, no o flor, no cut,
no rng.

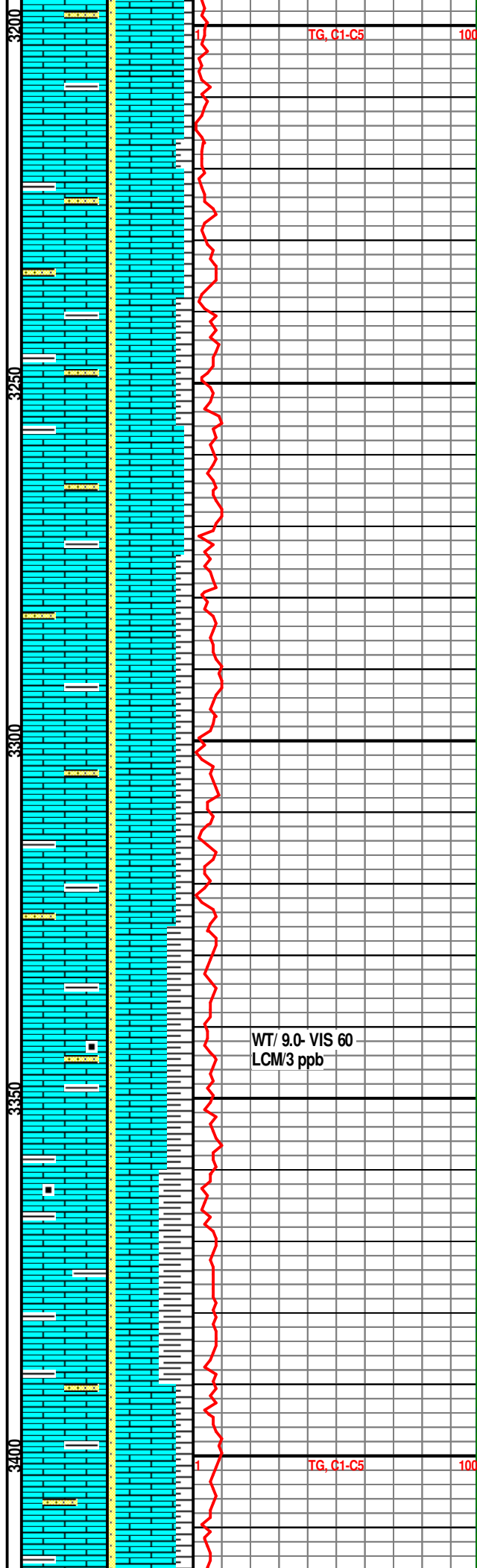
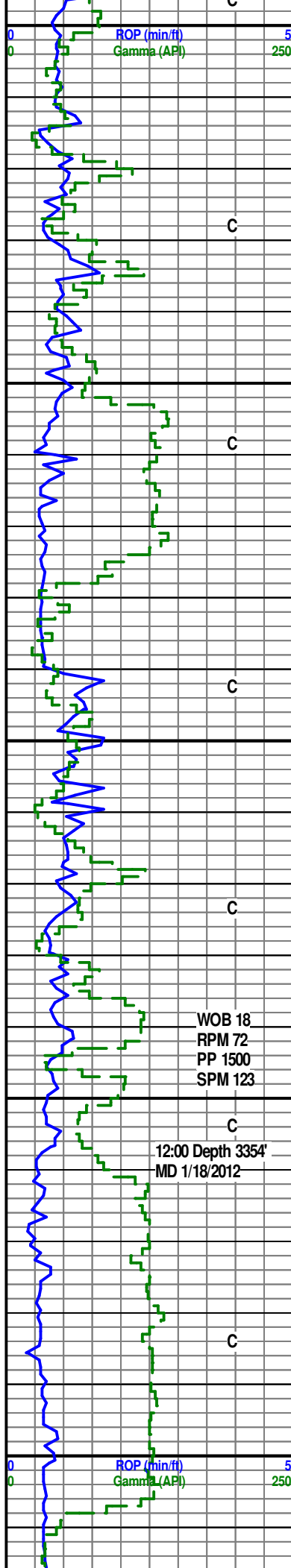
LS: Wh - Mlky, blkly to subblky, fxln
to v/fxln, frm to occ hd, intcls
frmwrk, tt - vugy por, no stn, no
flor, no o flor, no cut, no rng.

SS: Wh - ltBn - modBn, w cons,
med to crs grn, subang to rnd,
mody srtd, calc cmt, fr intgr por,
no stn, no flor, no o flor, no cut,
no rng.

SS: Wh - ltBn - modBn, w cons,
med to crs grn, subang to rnd,
mody srtd, calc cmt, fr intgr por,
no stn, no flor, no o flor, no cut,
no rng.



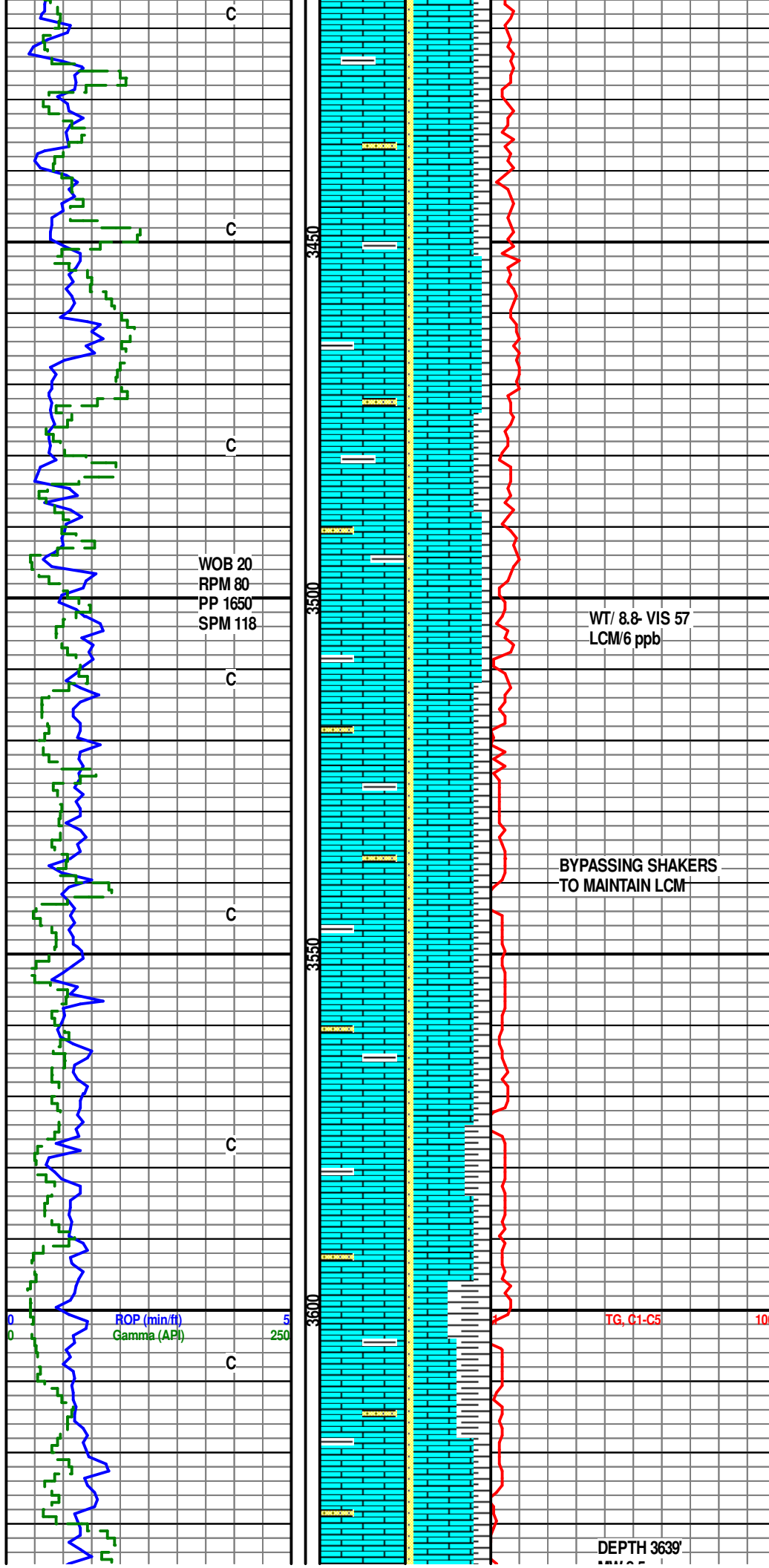




LS: Wh - Milky, blkly to subblkly, fxln to v/fxln, frm to occ hd, intcls frmwrk, tt - vugy por, no stn, no flor, no o flor, no cut, no rng.

LS: Wh - Milky, blkly to subblkly, fxln to v/fxln, frm to occ hd, intcls frmwrk, tt - vugy por, no stn, no flor, no o flor, no cut, no rng.

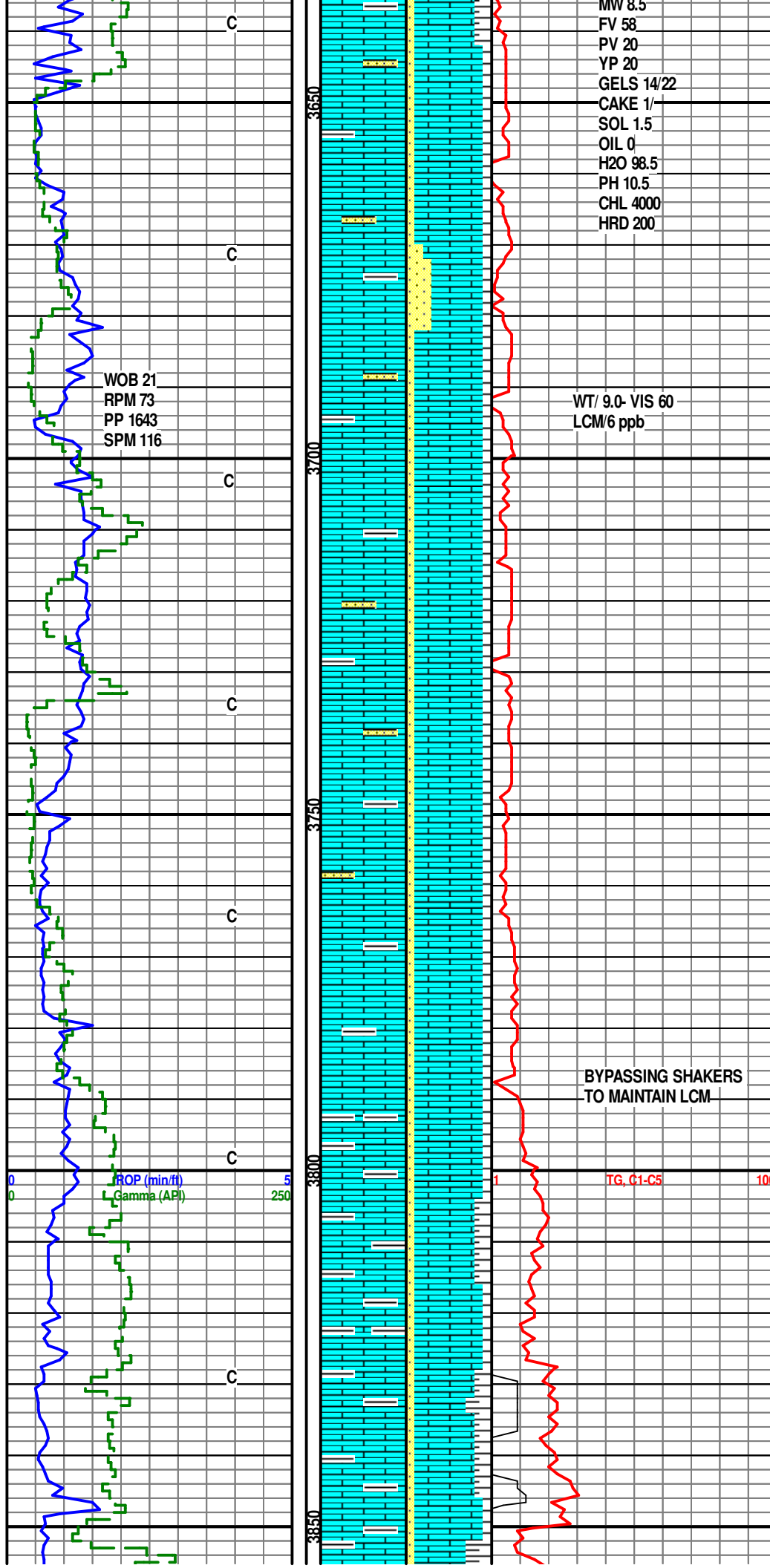
LS: Wh - Milky, blkly to subblkly, fxln to v/fxln, frm to occ hd, intcls frmwrk, tt - vugy por, no stn, no flor, no o flor, no cut, no rng.



LS: Wh - Milky, blkly to subblky, fxln to v/fxln, frm to occ hd, intcls frmwrk, tt - vugy por, no stn, no flor, no o flor, no cut, no rng.

LS: Wh - Milky, blkly to subblky, fxln to v/fxln, frm to occ hd, intcls frmwrk, tt - vugy por, no stn, no flor, no o flor, no cut, no rng.

LS: Wh - Milky, blkly to subblky, fxln to v/fxln, frm to occ hd, intcls frmwrk, tt - vugy por, no stn, no flor, no o flor, no cut, no rng.



MW 8.5
FV 58
PV 20
YP 20
GELS 14/22
CAKE 1/
SOL 1.5
OIL 0
H2O 98.5
PH 10.5
CHL 4000
HRD 200

LS: Wh - ltBn - Milky, blkly to
subblkly, medxln to fxln, frm to fri,
intcls frmwrk, imbd PYRC spec, tt
- vugy por, no stn, no flor, no o
flor, no cut, no rng, TR SS, TR
SH.

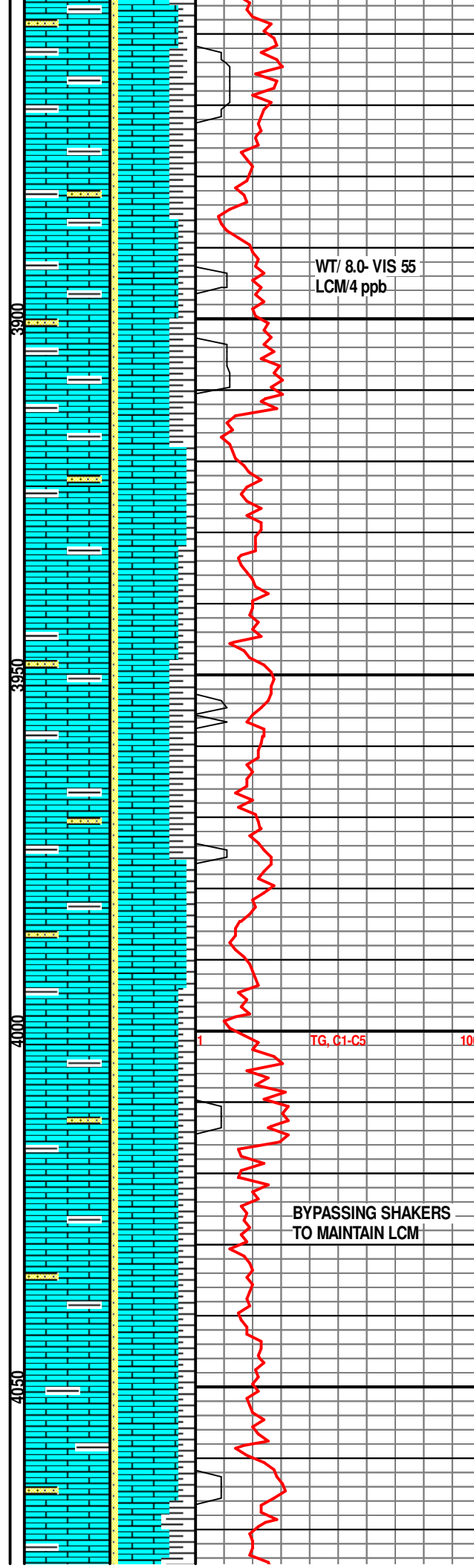
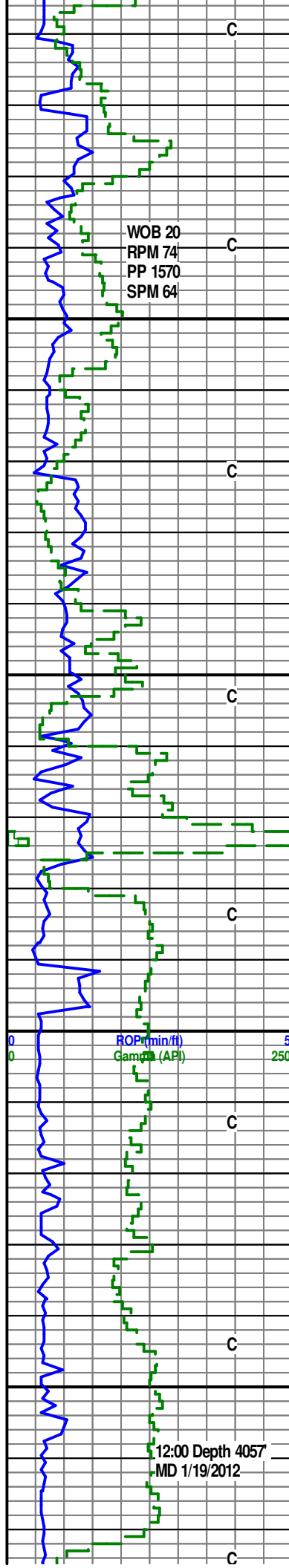
WT/ 9.0- VIS 60
LCM/6 ppb

LS: Wh - ltBn - Milky, blkly to
subblkly, medxln to fxln, frm to fri,
intcls frmwrk, imbd PYRC spec, tt
- vugy por, no stn, no flor, no o
flor, no cut, no rng, TR SS, TR
SH.

BY PASSING SHAKERS
TO MAINTAIN LCM

TOOH @ 3798' for rig repairs

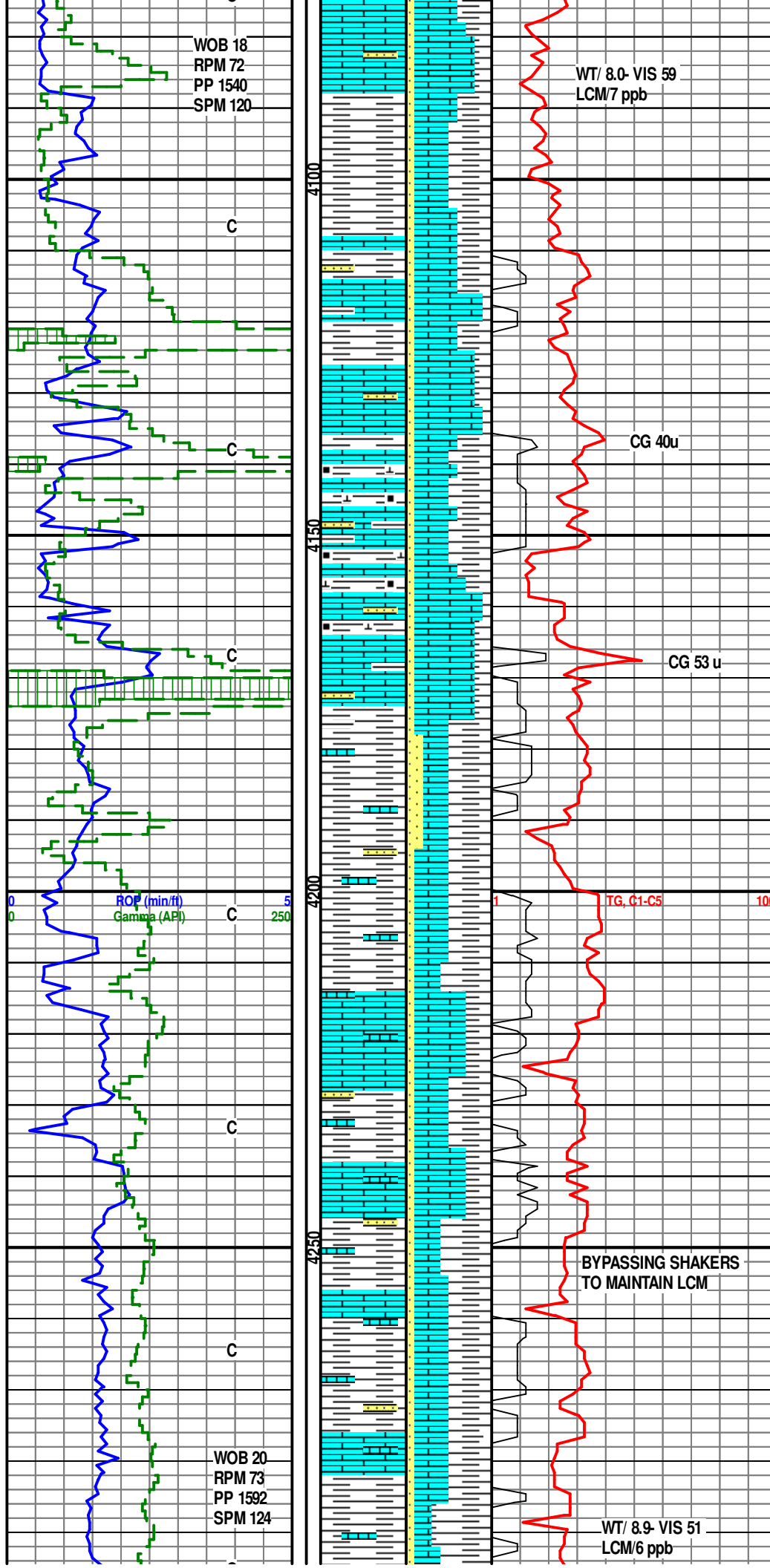
LS: Wh - ltBn - Milky, blkly to
subblkly, medxln to fxln, frm to fri,
imbd PYRC spec, tt - vugy por, no
stn, no flor, no o flor, no cut, no
rng, TR SS, TR SH.



LS: Opq - v/ltGy, rnd to subblky, fxl n, frm to fri, occ ooid frmwrk, imbd QTZ, free QTZ, intgr - tt por, no stn, fnt ltYl flor, no o flor, no cut, no rng, Tr Ss, Tr Sh.

LS: Opq - v/ltGy, rnd to subblky, fxl n, med sft to fri, occ ooid frmwrk, imbd QTZ, free QTZ, intgr - tt por, no stn, fnt ltYl flor, no o flor, no cut, no rng, Tr Ss, Tr Sh.

LS: Wh - occ Opq - occ ltGy, rnd to subblky, fxl n to medxln, frm to occ hd, tr ooid frmwrk, imbd MICA, free QTZ, Crin, tt por, mod ltYl flor, no o flor, no cut, no rng, Tr Ss, Tr blk Sh



LANSING @ 4314'

DEPTH 4319'
MW 8.9
FV 46
PV 18
YP 14
GELS 18/28
CAKE 2/
SOL 4.5
OIL 0
H2O 95.5
PH 10.5
CHL 6000
HRD 200

SH: meddrkGy - drkGy - GyshBlk,
subblky to blk, f to med txt, brit to
sft, occ free PYR., vy calc, no o
flor, no cut, no ring

LS: Wh - occ Opq - occ ltGy, rnd to
subblky, fxln to medxln, frm to occ
hd, tr ooid frmwrk, imbd MICA,
free QTZ, Crin, tt por, mod ltYI
flor, no o flor, no cut, no rng

BYPASSING SHAKERS
TO MAINTAIN LCM

WT/ 9.0- VIS 48
LCM/6 ppb

SH: meddrkGy - drkGy - GyshBlk,
subblky to blk, f to med txt, brit to
sft, occ free PYR., vy calc, no o
flor, no cut, no ring

WOB 19
RPM 77
PP 1728
SPM 117

ROP (min/ft)
Gamma (API)

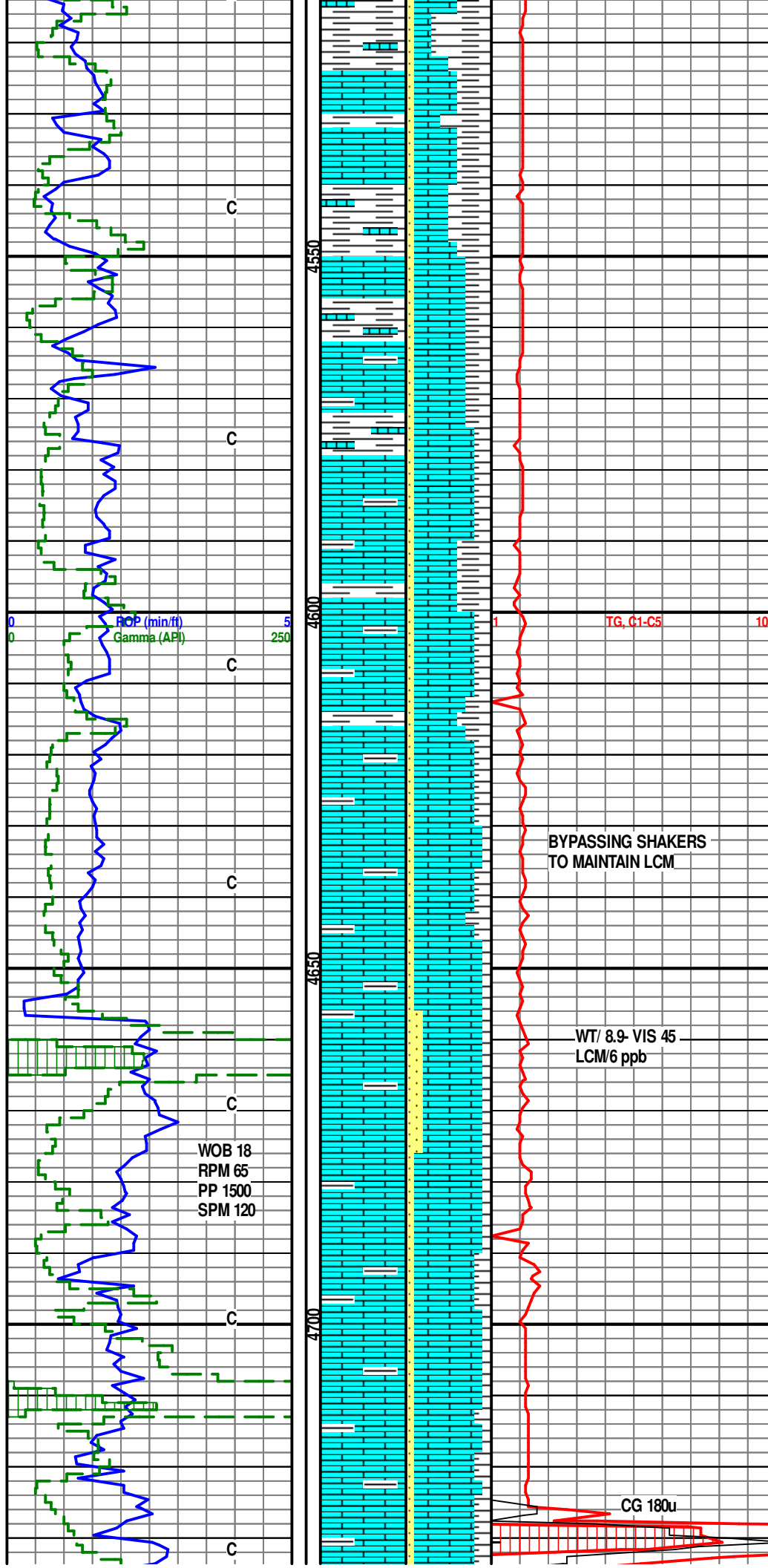
0 5
0 250

LS: Wh - occ Opq - occ ltGy, rnd to subblky, fxln to medxln, frm to occ hd, tr ooid frmwrk, Crin, tt por, mod ltYl flor, no o flor, no cut, no rng

LS: pred Mlky - v/ltGy, rnd to subblky, fxln to medxln, sft to fri to occ hd, tr ooid frmwrk, imbd QTZ, Crin, tt - Chnl por, no flor, no o flor, no cut.

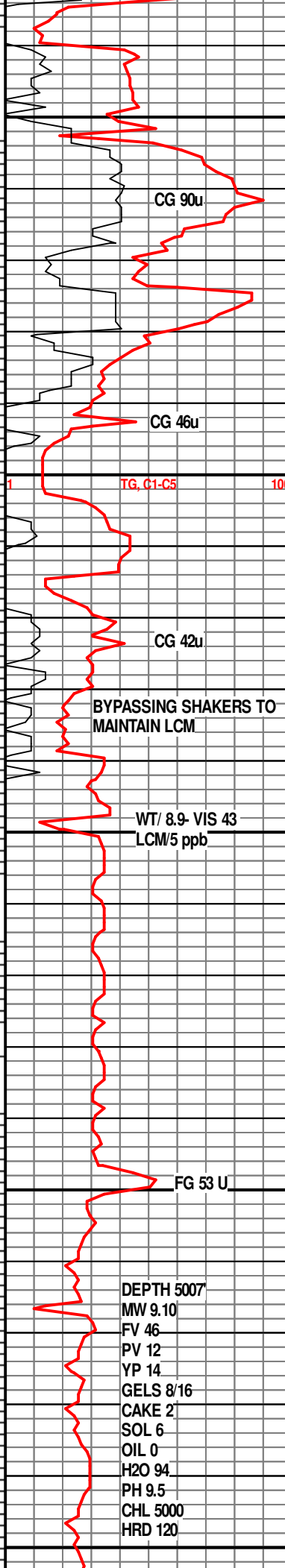
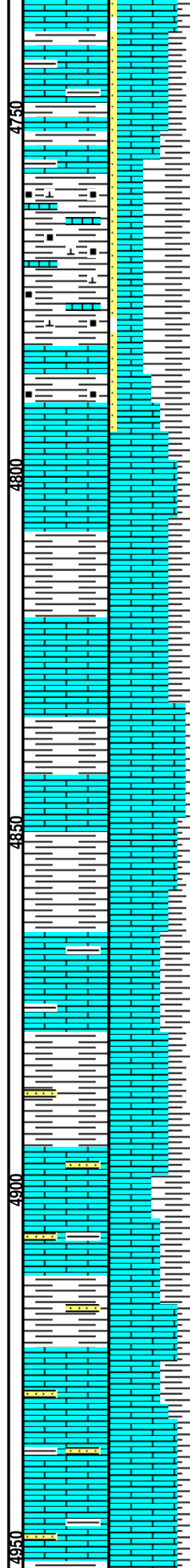
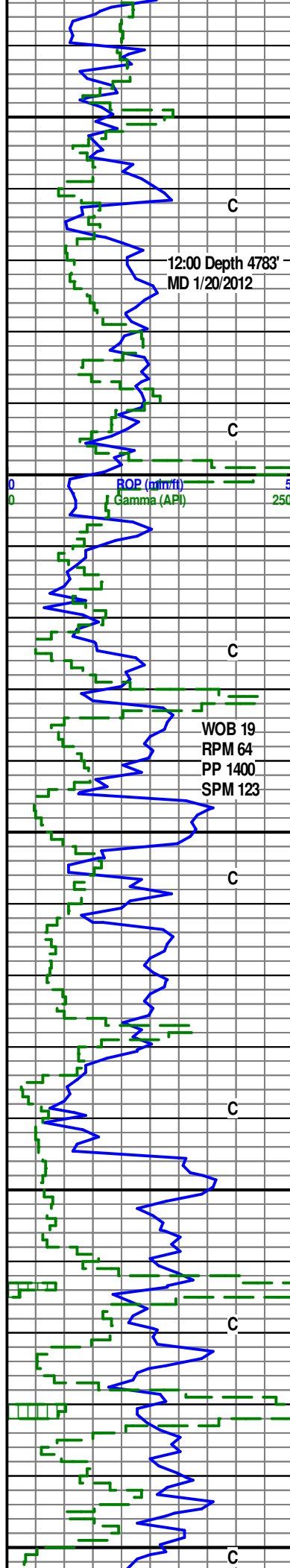
LS: Opq -Wh, subblky to blk, micxln to grnl, pred sft to occ hd, occ ooid frmwrk, tr imbd MICA, free QTZ, pred Chnl por, tr ltBn stn, fnt ltYl flor, no o flor, no cut, no rng, Tr sh, Tr Ss

LS: Wh - paYlshOr - tr BlshWh, subblky to subsplt, micxln to medxln to occ crsxn, pred frm to fri to scat hd, tr foss frmwrk, tr imbd grnl PYR, tr free DOL, pred fracd - tr intgr por, tr ltBn stn, fnt ltYl flor, no o flor, no cut, no rng.



BYPASSING SHAKERS
TO MAINTAIN LCM

WT/ 8.9- VIS 45
LCM/6 ppb



SH: pred ltGy - scat Blk, pred rnd
to subblky, smth to med to occ rgh
txt, sft to fri, tr imbd MICA, tr free
CHT, no flor, no o flor, no cut, no
rng.

LS: pred Wh - Opq, rnd to subblky,
medxln to v/crsxln, frm to hd to
scat fri, imbd QTZ, scat free CHT,
intr - tt - occ fracd por, tr ltBn stn,
mod ltYl flor, no o flor, no cut, no
rng, Tr Blk Sh

**MARMATHON
LIMESTONE @ 4,817'
MD**

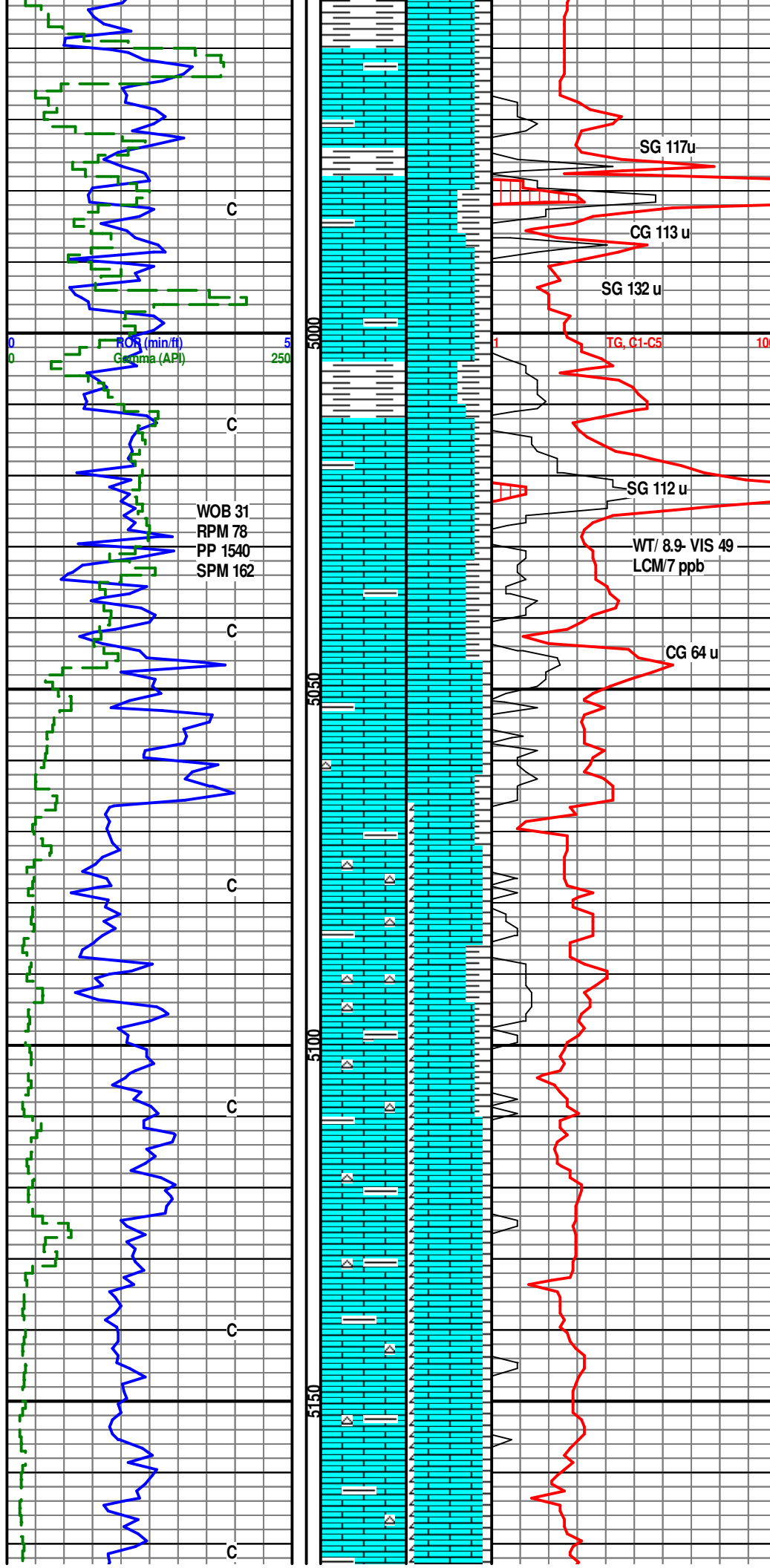
**OSWEGO LIMESTONE
@ 4834'MD**

LS: pred Wh - Opq, rnd to subblky,
medxln to v/crsxln, frm to hd to
scat fri, imbd QTZ, scat free CHT,
intr - tt - occ fracd por, tr ltBn stn,
mod ltYl flor, no o flor, no cut, no
rng

**Cherokee Group@
4912'**

SH: pred ltGy - scat Blk, pred rnd
to subblky, smth to med to occ rgh
txt, sft to fri, tr imbd MICA, tr free
CHT, no flor, no o flor, no cut, no
rng.

DEPTH 5007
MW 9.10
FV 46
PV 12
YP 14
GELS 8/16
CAKE 2
SOL 6
OIL 0
H2O 94
PH 9.5
CHL 5000
HRD 120

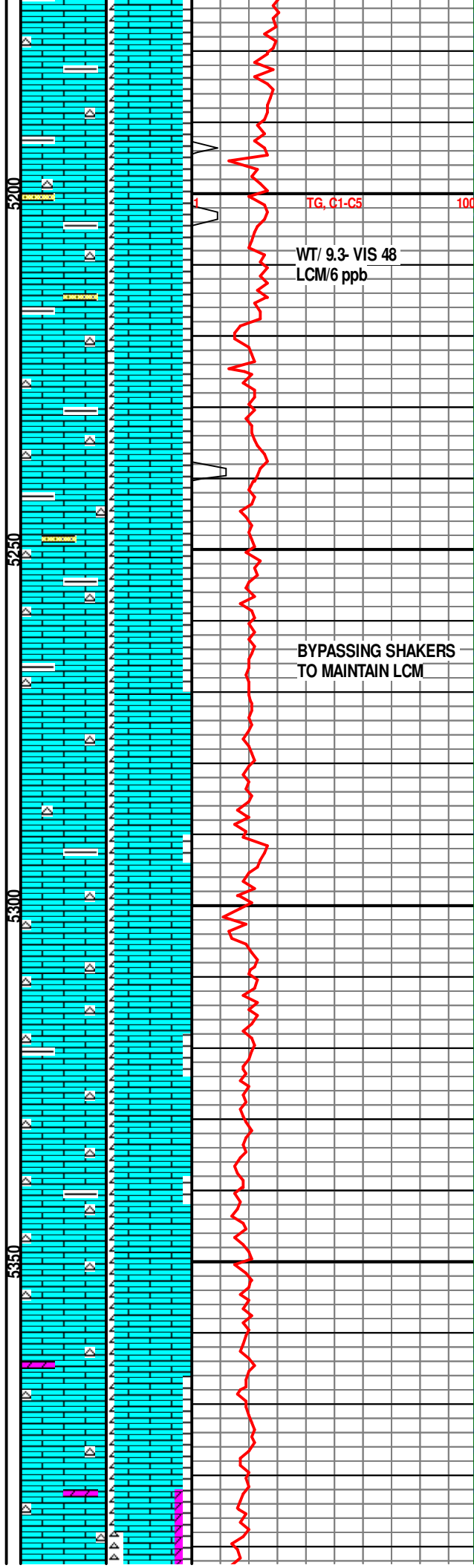
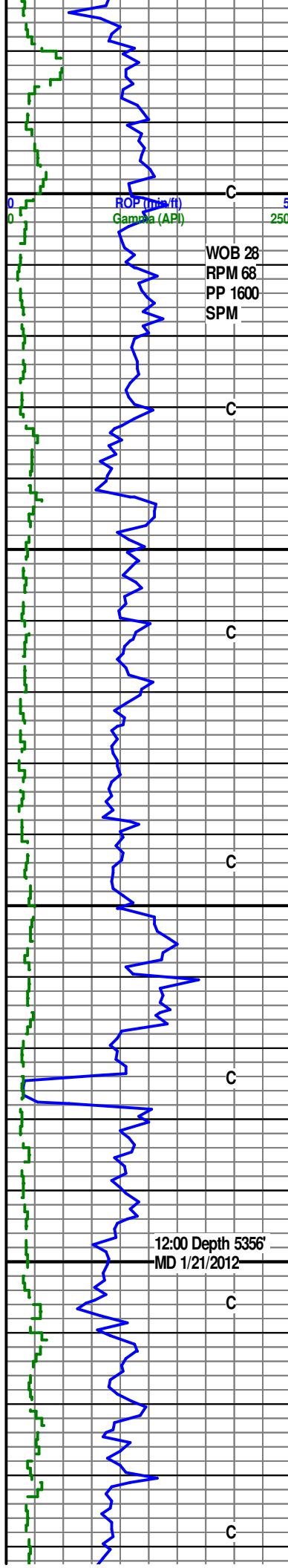


LS: pred Wh - Opq, rnd to subblky, medxl n to v/crsxl n, frm to hd to scat fri, imbd QTZ, scat free CHT, intgr - tt - occ fracd por, tr ltBn stn, mod ltYl flor, no o flor, no cut, no rng

Miss lime @ 5047'

LS: Mlky - Wh - occ meddrkGy, subblky to blk, v/fxln to fxln, fri to frm, foss frmwrk, imbd CHT, free CHT, vugy por, no stn, fnt ltYl flor, fnt paYl o flor, slow lzy cut, fnt paYl rng.

LS: Mlky - Wh - occ meddrkGy, subblky to blk, v/fxln to fxln, fri to frm, foss frmwrk, imbd CHT, free CHT, vugy por, no stn, fnt ltYl flor, fnt paYl o flor, slow lzy cut, fnt paYl rng.

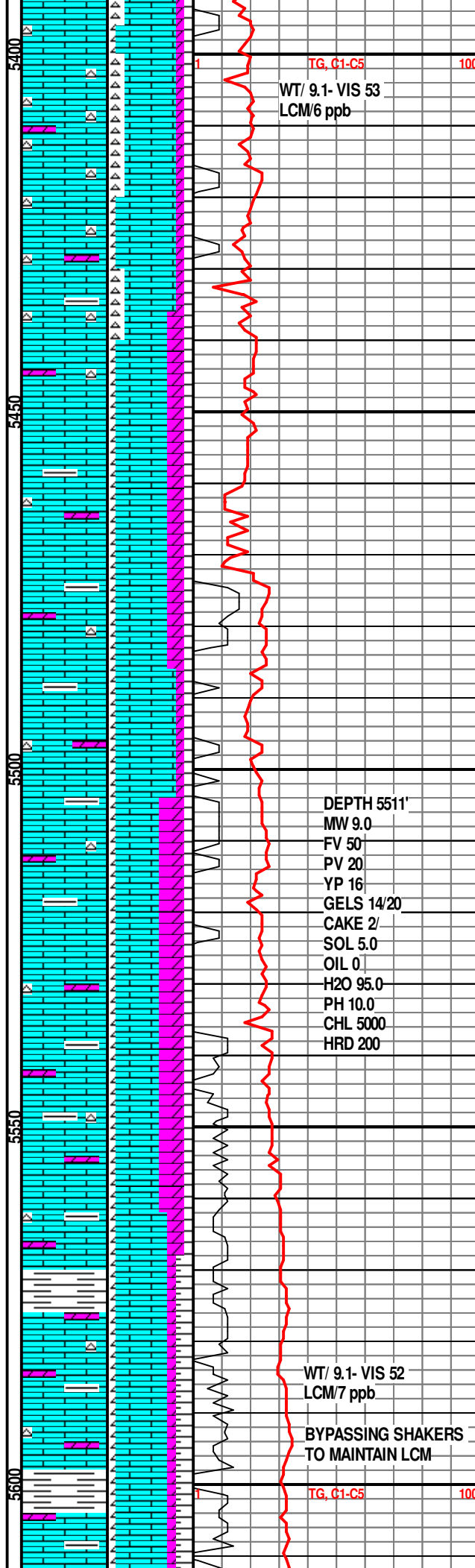
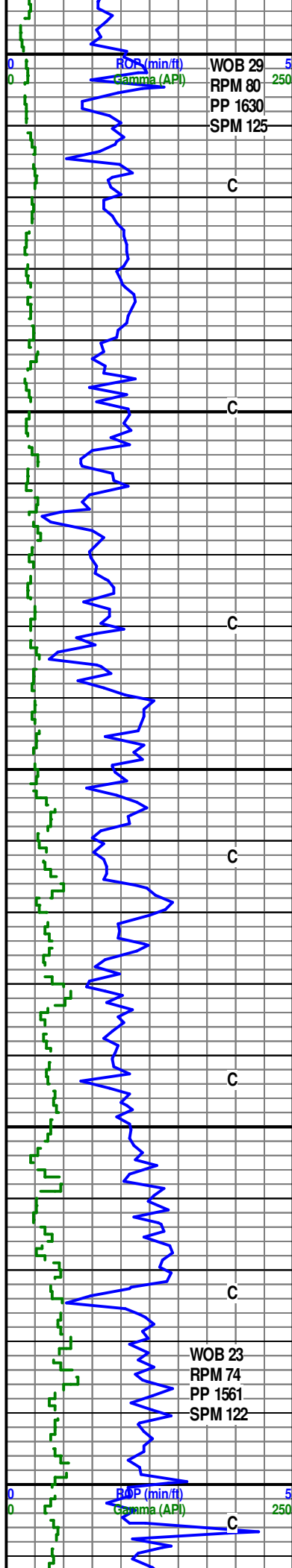


LS: Mlky - Wh - occ meddrkGy, subblky to blkly, v/fxl n to fxl n, fri to frm, foss frmwrk, imbd CHT, free CHT, pred fracd - tr intg, no stn, fnt ltYl flor, fnt paYl o flor, no cut, no rng, Tr Ss

LS: Mlky - Wh, subblky to blkly, v/fxl n to fxl n, fri to frm, foss frmwrk, imbd CHT, free CHT, pred fracd - tr intg, no stn, fnt ltYl flor, fnt paYl o flor, no cut, no rng,

LS: Mlky - Wh - occ meddrkGy, subblky to blkly, v/fxl n to fxl n, fri to frm, foss frmwrk, imbd CHT, free CHT, pred fracd - tr intg, no stn, fnt ltYl flor, fnt paYl o flor, no cut, no rng

LS: Mlky - Wh - occ meddrkGy, subblky to blkly, v/fxl n to fxl n, fri to frm, foss frmwrk, imbd CHT, free CHT, pred fracd - tr intg, no stn, fnt ltYl flor, fnt paYl o flor, no cut, no rng



LS: Milky - Wh - occ meddrkGy, subblky to blk, v/xdn to fxln, fri to frm, foss frmwrk, imbd CHT, free CHT, pred fracd - tr intg, no stn, fnt ltYl flor, fnt paYl o flor, no cut, no rng

LS: Milky - Wh - occ meddrkGy, subblky to blk, v/xdn to fxln, fri to frm, foss frmwrk, imbd CHT, free CHT, pred fracd - tr intg, no stn, fnt ltYl flor, fnt paYl o flor, no cut, no rng

DOL: Opq - medltGy - Clr, blk to subspplt, microxln frmwrk, free QTZ, fracd por, no stn, ltYl flor, no cu

LS: Milky - Wh - occ meddrkGy, subblkv to blkv. v/xdn to fxln. fri to

frm, foss frmwrk, imbd CHT, free
CHT, pred fracd - tr intg, no stn, fnt
ltYl flor, fnt paYl o flor, no cut, no
rng

LS: Mlky - Wh - occ meddrkGy,
subblky to blkY, v/fxln to fxln, fri to
frm, foss frmwrk, imbd CHT, free
CHT, pred fracd - tr intg, no stn, fnt
ltYl flor, fnt paYl o flor, no cut, no
rng

LS: Mlky - Wh - occ meddrkGy,
subblky to blkY, v/fxln to fxln, fri to
frm, imbd CHT, free CHT, pred
fracd - tr intg, no stn, fnt ltYl flor,
fnt paYl o flor, no cut, no rng

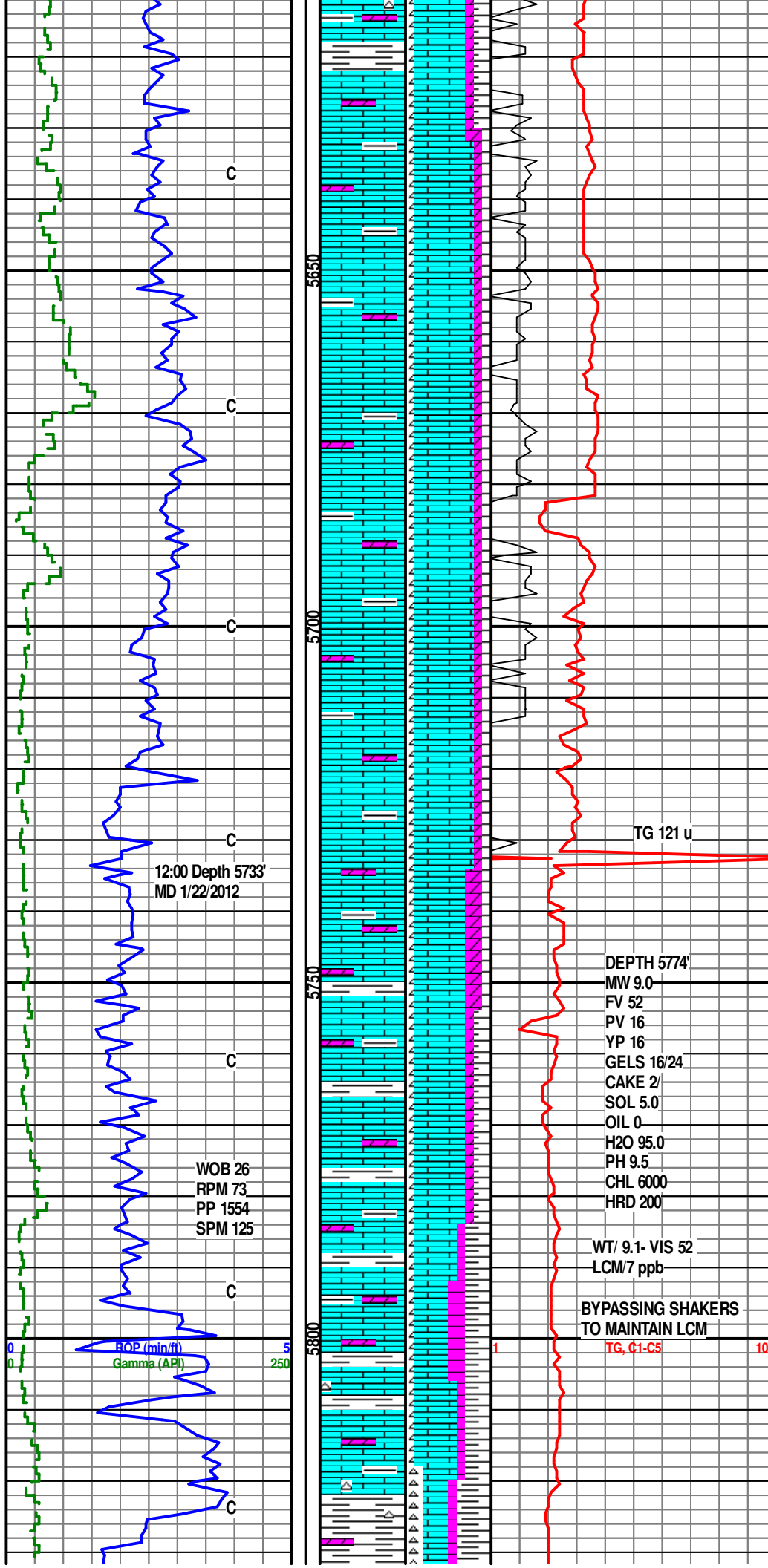
**TOH @ 5,733' for a new
bit**

Bit #3, Varel, Size 9.75, Jets:
6/12'S, In @ 5,733'

LS: Mlky - Wh - occ meddrkGy,
subblky to blkY, v/fxln to fxln, fri to
frm, imbd CHT, free CHT, pred
fracd - tr intg, no stn, fnt ltYl flor,
fnt paYl o flor, no cut, no rng

KINDERHOOK @ 5787'

DOL: Clr - Opq - Wh, pred blkY to
subblky, microxln frmwrk, scat
imbd QTZ, pred fracd - tt por, no
stn, fnt ltGn flor, no o flor, no cut,
no rng



VIOLA @ 5834'

LS: Mlky - Wh - v/litGy - occ ltBn, blky to subblky, medxl n to fxln, frm to occ sft, DOL frmwrk, imbd DOL, free CHT, occ intgr - fracd por, tr ltBn stn, fnt ltYl flor, no o flor, slow flsh cut, fnt paYl rng.

DOL: pred Clr - Opq - occ Wh, blky to occ subrnd, scat free QTZ, pred vugy - scat tt por, no stn, fnt ltYl flor, no o flor, no cut, no rng.

LS: Mlky - Wh - v/litGy - occ ltBn, blky to subblky, medxl n to fxln, frm to occ sft, DOL frmwrk, imbd DOL, free CHT, occ intgr - fracd por, no stn, no o flor, no cut, no rng.

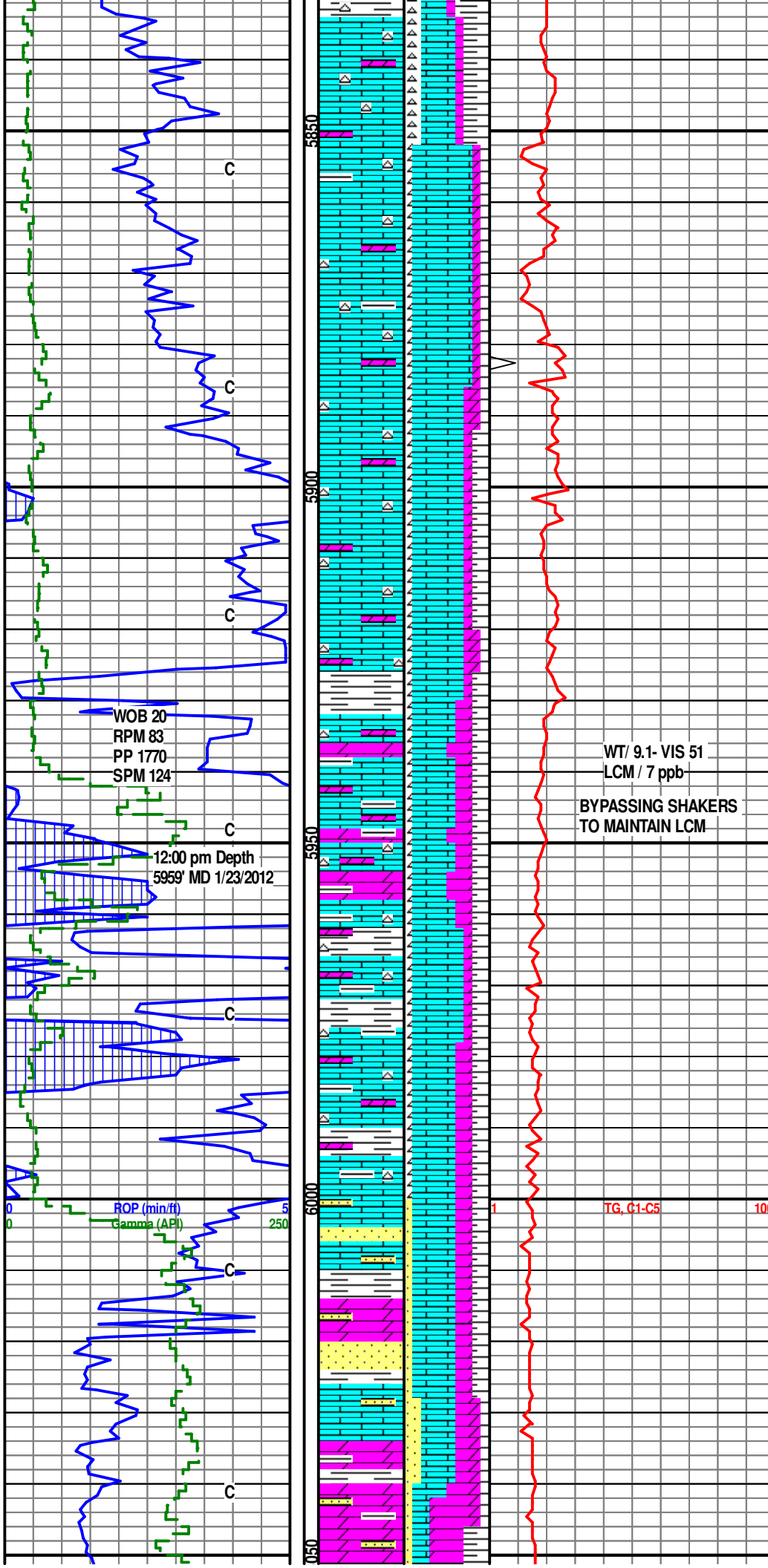
SIMPSON @ 5,929'

WT/ 9.1- VIS 51
LCM / 7 ppb

BYPASSING SHAKERS
TO MAINTAIN LCM

LS: Mlky - v/litGy, pred rnd to scat subblky, pred micxl n to occ chlky to v/fxln, pred frm to tr fri, tr chk frmwrk, imbd CHT - CHT, free DOL & free CHT, pred fracd - Chnl por, tr ltBn stn, fnt ltYl flor, no o flor, no cut, no rng.

DOL: pred modBn - Opq, subblky, macroxl n frmwrk. SH: medGy - drkGy, splt to rnd, med txt, frm, freeQtz. LS: ltGy - medGy, subblky, medxl n, frm.



OIL CREEK @ 6058'

ARBUCKLE @ 6091'

DOL: pred modBn - Opq, subblky, macroxln frmwrk.SH: medGy - drkGy, splt to rnd, med txt, frm, freeQtz. LS: ltGy - medGy, subblky, medxln, frm.

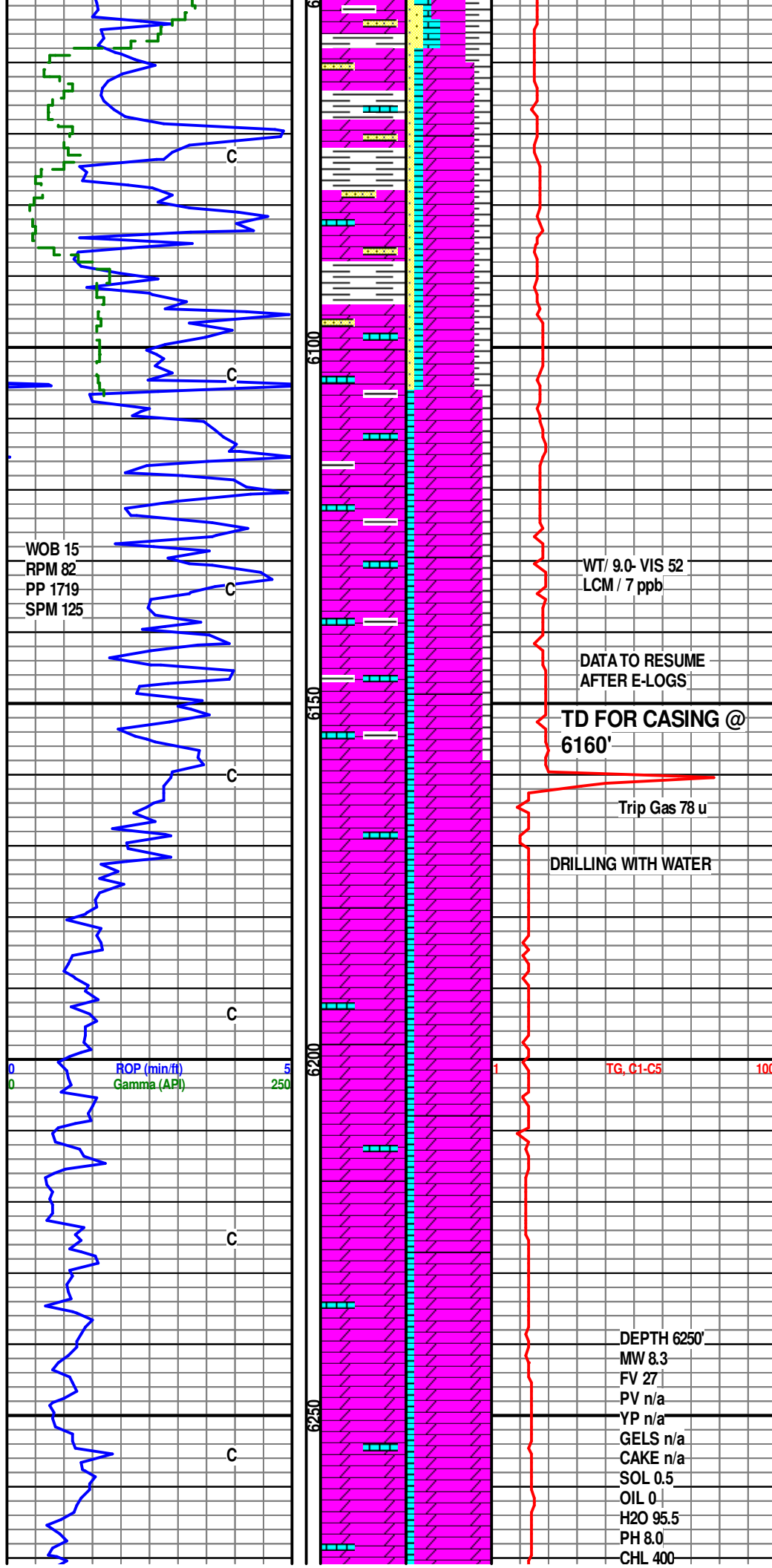
TOOH FOR E-LOGS AND INTERMIDEATE CASING @ 6160'

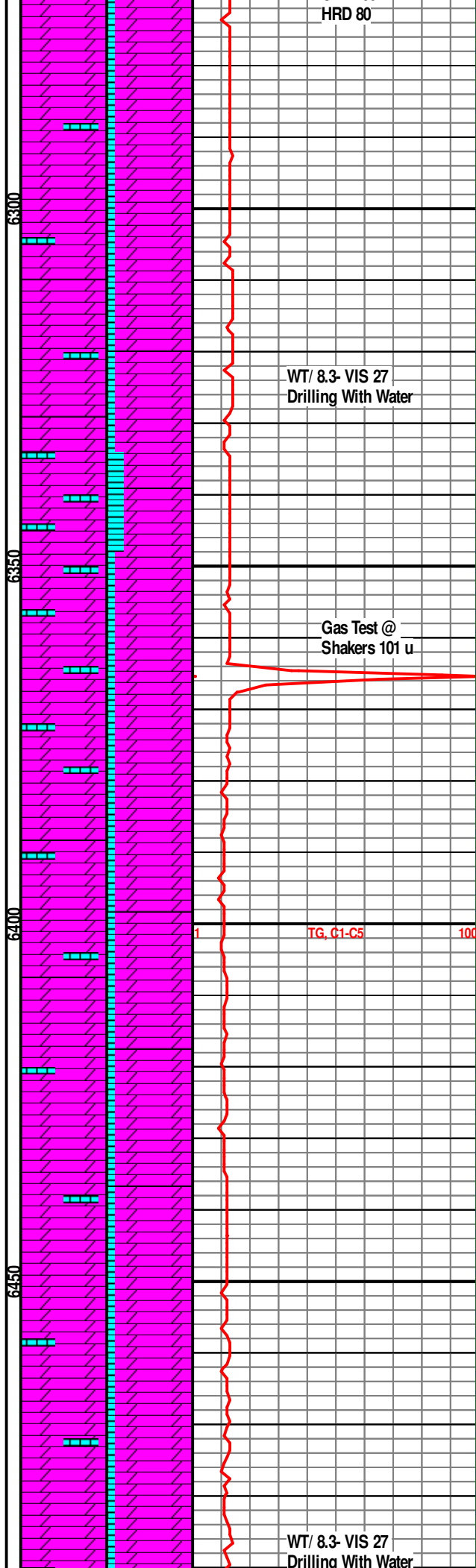
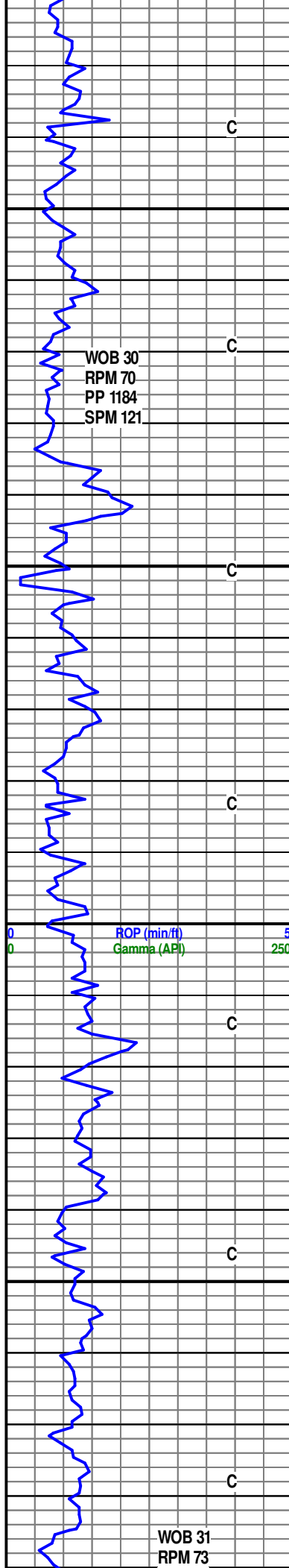
DATA TO RESUME AFTER E-LOGS

Resume drilling on 1-26-12 with

Bit #4, Smith, Size 6.375, Jets: 3/16"S, In @ 6,160'

DOL: Clr - Opq, Occ Wh, pred blkly to subblky, microxln frmwrk, scat imbd QTZ, pred frac - tt por, no stn, fnt ltGn flor, , no cut, no rng, TR LS

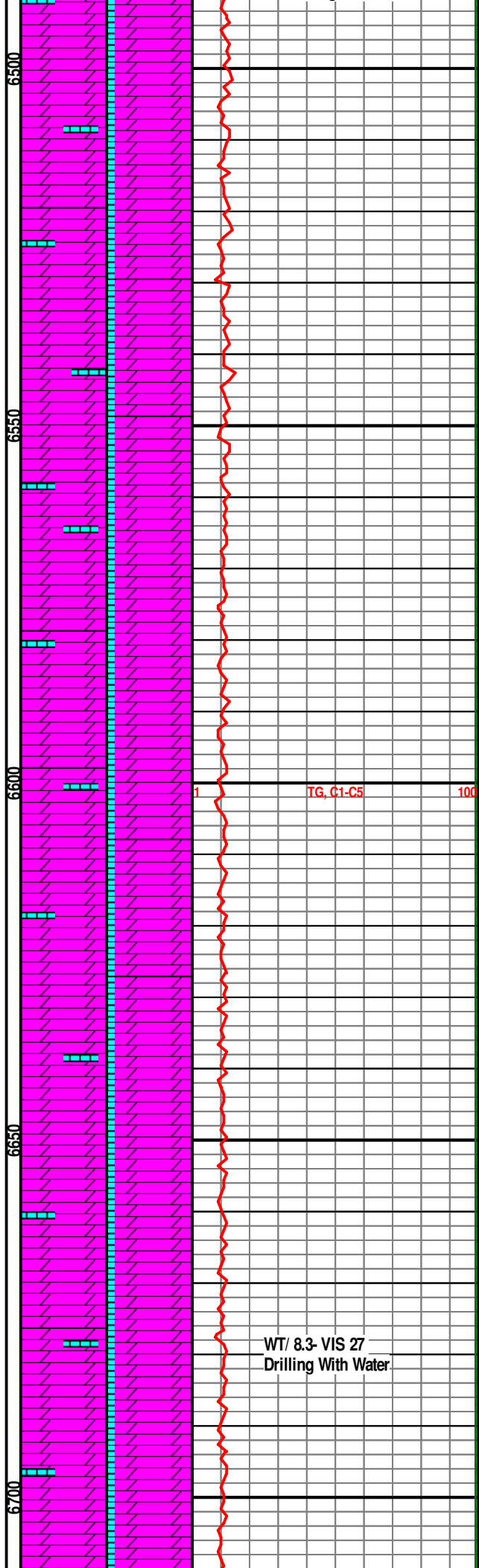
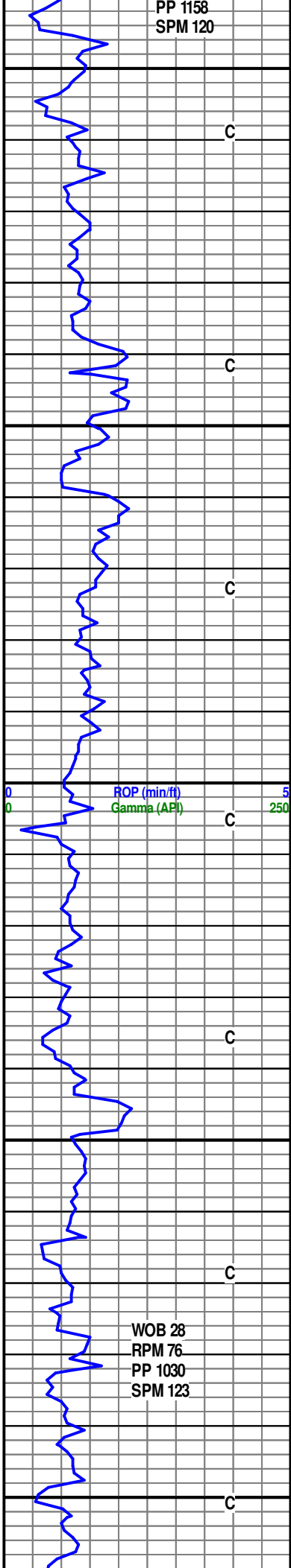




DOL: Clr - Opq, Occ Wh, pred blkly to subblkly, microxln frmwrk, scat imbd QTZ, pred frac - tt por, no stn, fnt ltGn flor, , no cut, no rng, TR LS

DOL: Clr - Opq, Occ Wh, pred blkly to subblkly, microxln frmwrk, scat imbd QTZ, pred frac - tt por, no stn, fnt ltGn flor, , no cut, no rng, TR LS

DOL: Clr - Opq, Occ Wh, pred blkly to subblkly, microxln frmwrk, scat imbd QTZ, pred frac - tt por, no stn, fnt ltGn flor, , no cut, no rng, TR LS



DOL: Clr - Opq, Occ Wh, pred blkly
to subblkly, microxln frmwrk, scat
imbd QTZ, pred frac - tt por, no
stn, fnt ltGn flor, , no cut, no rng,
TR LS

DOL: Clr - Opq, Occ Wh, pred blkly
to subblkly, microxln frmwrk, scat
imbd QTZ, pred frac - tt por, no
stn, fnt ltGn flor, no cut, no rng,
TR LS

DOL: Clr - Opq, Occ Wh, pred blkly

12:00 pm Depth 6726'
MD 1/27/2012

C

CG 23u

C

C

ROP (min/ft)
Gamma (API)

C

WOB 28
RPM 75
PP 1040
SPM 110

WT/ 8.3- VIS 27
Drilling With Water

C

Sandridge Energy, Inc.
LUKE SWD 1-10
SEC 10-T31S-R20W
COMANCHE CO, KS

TD @ 6,859'
ON 1/27/12

Loggers on location
Eric Saldana / Brad Horn

to subblky, microxln frmwrk, scat
imbd QTZ, pred frac - tt por, no
stn, fnt ltGn flor, , no cut, no rng,
TR LS

DOL: Clr - Opq, Occ Wh, pred blkly
to subblky, microxln frmwrk, scat
imbd QTZ, pred frac - tt por, no
stn, fnt ltGn flor, , no cut, no rng,
TR LS

DOL: Clr - Opq, Occ Wh, pred blkly
to subblky, microxln frmwrk, scat
imbd QTZ, pred frac - tt por, no
stn, fnt ltGn flor, , no cut, no rng,
TR LS

LOST CIRCULATION @ 6,859'
MAKE SHORT TRIP AND TOH
FOR T.D