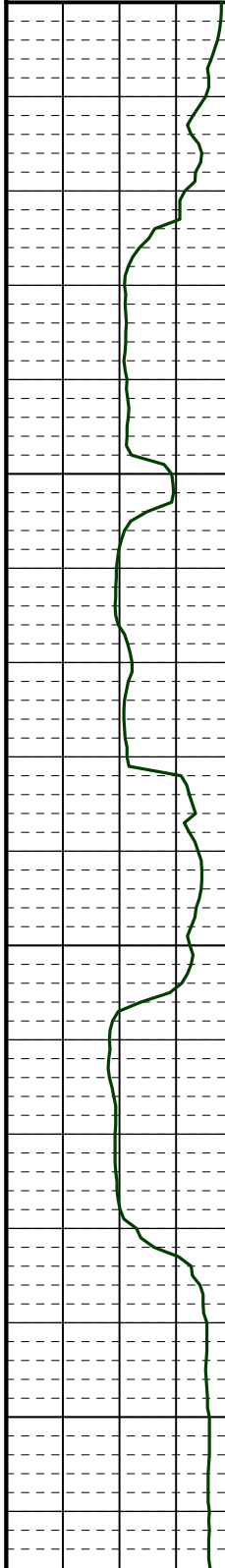


0E1:

10	PPM	100000
Ethane		
10	PPM	100000
Propane		
10	PPM	100000
Iso-Butane		
10	PPM	100000
Normal Butane		
10	PPM	100000
Iso-Pentane		
10	PPM	100000
Normal Pentane		
10	PPM	100000



3700

3750

3800

3850

MD 3721' Inc 2° Azm
129° TVD 3718.2' VS
-102.93'

WOB: 24 RPM: 61
SPM:138 SPP: 1786

MD 3785' Inc 1° Azm
141° TVD 3782.2' VS
-104.2'

WOB: 21 RPM: 61
SPM:138 SPP: 1679

MD 3848' Inc 1° Azm
185° TVD 3845.1' VS
-105.3'

SA: mky - trnsl, mod
frm- tr hd, ang - amor, m
xln, dl SH: lt - med gry/
rd - sl rddsh brn,
blky-sbblky, frm - tr hd,
silty

ANHY: wh-v lt gry, occ
orngsh, filky, hd, sm brit;
SH: lt - med gry, sl blky,
pred sbblky, sl - mod
frm, v silty txt, sl aren

ANHY: off wht-wht - v lt
gry, sl brtl - frm, dul, non
calc, amor-blky, scat
intbd trnsl Gyp; SH: lt -
med gry/ rd - sl rddsh
brn, blky-sbblky, frm - sl
sft i.p., v silty



3900

3950

4000

4050

MWI 10
MWO 10

MD 3911' Inc 1° Azm
341° TVD 3908.1' VS
-105.13'

WOB: 25 RPM: 65
SPM:138 SPP: 1771

MD 3975' Inc 3° Azm
350° TVD 3972.1' VS
-102.91'

MWI 10
MWO 10

MD 4038' Inc 4° Azm
349° TVD 4035' VS
-99.42'

WOB: 27 RPM: 60
SPM:141 SPP: 1765

ANHY: off wh t- wht - v lt
gry, sl sft - frm, brit, dul,
non calc, amor -blky,
scat intbd trnsI Gyp; SH:
lt - med- dk gry/ lt rd - sl
rddsh brn, blky-sbblky,
frm - sl sft i.p., v slty;
SA: SA: mky - trnsI, mod
frm- tr hd, ang - amor, dl

ANHY: off wh t- wht - v lt
gry, sl sft - frm, hd i.p., sl
brit, v dul, non calc,
amor - sbblky - blky; SH:
lt - med- dk gry,
blky-sbblky, frm - sl sft
i.p., v slty; SA: mky -
trnsI, mod frm- tr hd, ang
- amor, dl



4100

4150

4200

4250

4300

MD 4101' Inc 4° Azm
348° TVD 4097.9' VS
-95.35'

WOB: 26 RPM: 57
SPM:138 SPP: 1773

MD 4164' Inc 3° Azm
349° TVD 4160.7' VS
-91.48'

MWI 10
MWO 10

MD 4227' Inc 2° Azm
354° TVD 4223.7' VS
-88.53'

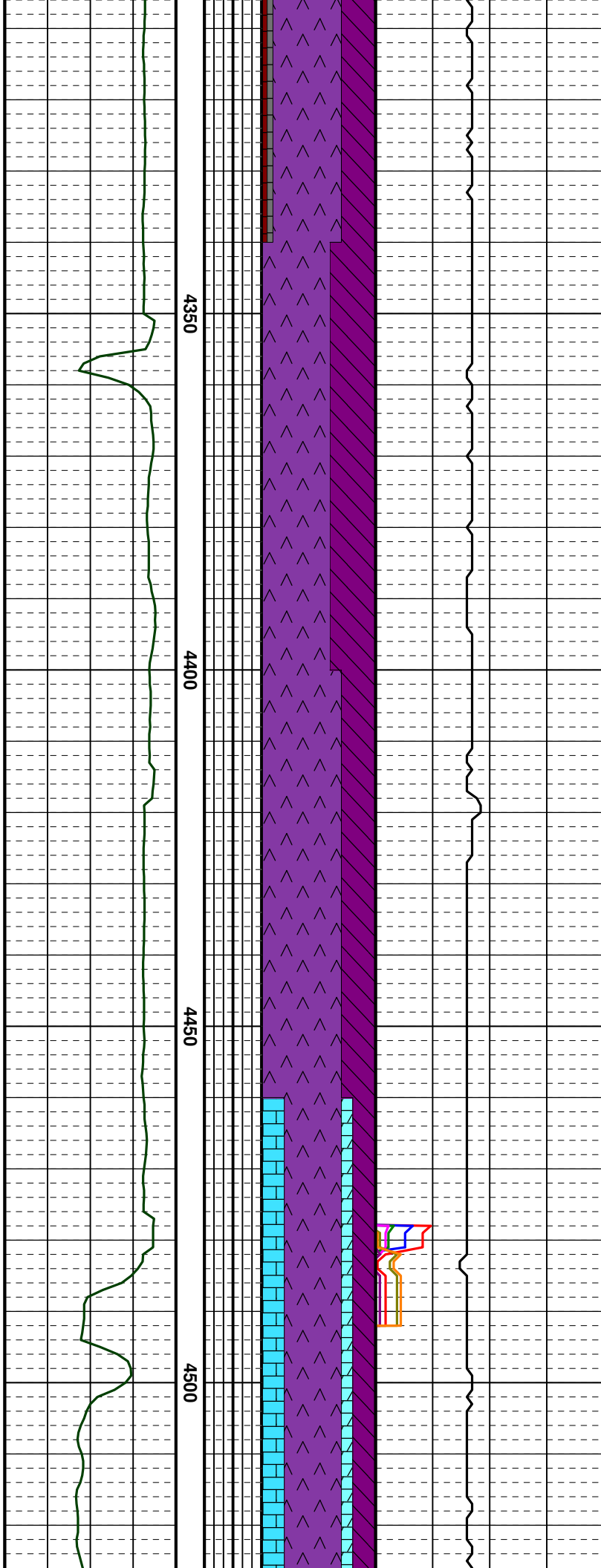
WOB: 25 RPM: 2
SPM:159 SPP: 2221

MD 4291' Inc 1° Azm
3° TVD 4287.6' VS
-86.64'

MWI 10

ANHY: off wht- wht - v lt
gry, sl brtl - frm, dul, non
calc, amor-blky - sbblky
i.p., SH: lt - med gry/ rd -
sl rddsh brn,
blky-sbblky, frm - sl sft
i.p., v silty

ANHY: off wht-wht sme
rd/orng, brtl-frm, sme
hd, dul, non calc,
amor-blky, scat intbd
trnsi GYP. No fluor, no
cut.



MWI 10
MWO 10

WOB: 32 RPM: 57
SPM: 159 SPP: 2217

MD 4354' Inc 1° Azm
8° TVD 4350.6' VS
-85.18'

MWI 10
MWO 10

MD 4417' Inc 1° Azm
22° TVD 4413.6' VS
-83.79'

WOB: 31 RPM: 59
SPM: 159 SPP: 2199

MD 4481' Inc 1° Azm
38° TVD 4477.6' VS
-82.48'

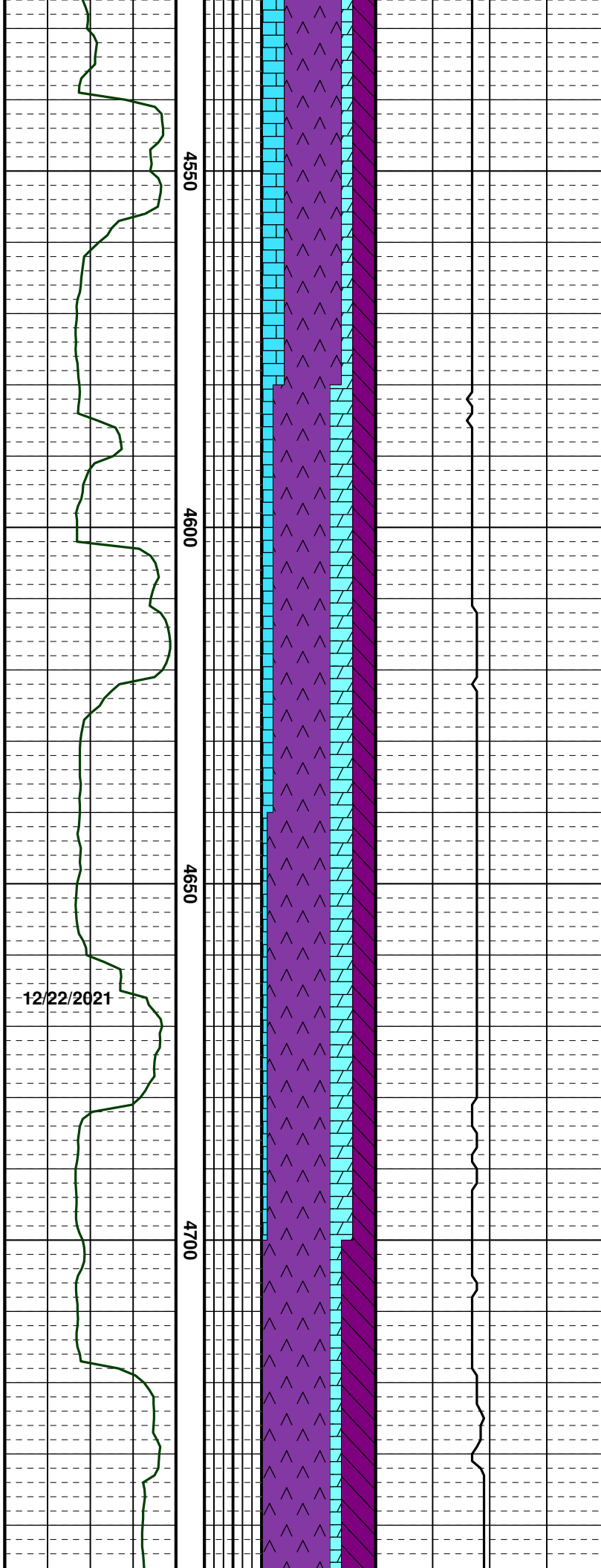
MWI 10
MWO 10

SH: lt - med gry/ rd - sl
rddsh brn, blkly-sbbkly,
frm - sl sft i.p., v slty

ANHY: off wht-wht sme
rd/orng, brtl-frm, sme
hd, dul, non calc,
amor-blky, scat intbd
trnsi GYP. No fluor, no
cut.

LS:wht- off wht, lt
gry-gry, mdst- wkst,
micxln- vfxln, mas- mic
suc, sl dol ip, trc embd
pyr. No fluor, no cut.





WOB: 11 RPM: 0
SPM: 160 SPP: 1785

MD 4544' Inc 1° Azm
55° TVD 4540.6' VS
-81.38'

MWI 10
MWO 10

MD 4607' Inc 1° Azm
21° TVD 4603.5' VS
-80.58'

WOB: 24 RPM: 59
SPM: 159 SPP: 2121

MD 4671' Inc 1° Azm
316° TVD 4667.5' VS
-79.86'

MWI 10
MWO 10

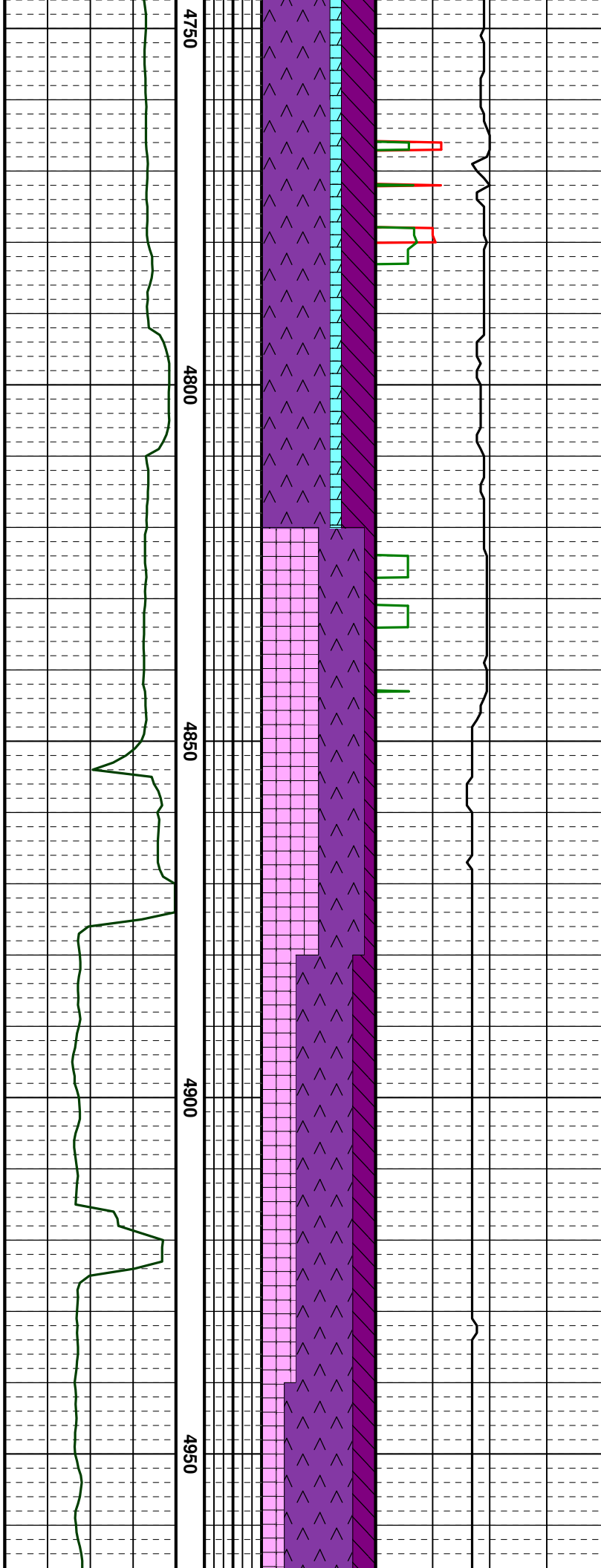
MD 4734' Inc 0° Azm
315° TVD 4730.5' VS
-79.32'

ANHY: off wht-wht sme
rd/orng, brtl-frn, sme
hd, dul, non calc,
amor-blky, scat intbd
trnsI GYP. No fluor, no
cut.

DOLO: mot lt tn-brn/
lt-drk gy, mdst-wkst, crp
xln- vf xln, frm-mod frm,
dns,mic suc-suc. No
flor,no cut.

ANHY: off wht-wht sme
rd/orng, brtl-frn, sme
hd, dul, non calc,
amor-blky, scat intbd
trnsI GYP. No fluor, no
cut.





WOB: 31 RPM: 66
SPM: 158 SPP: 2159

MWI 10
MWO 10

MD 4797' Inc 1° Azm
357° TVD 4793.5' VS
-78.72'

WOB: 33 RPM: 71
SPM: 159 SPP: 2329

MD 4860' Inc 2° Azm
358° TVD 4856.5' VS
-77.01'

MWI 10
MWO 10

MD 4924' Inc 3° Azm
356° TVD 4920.4' VS
-73.9'

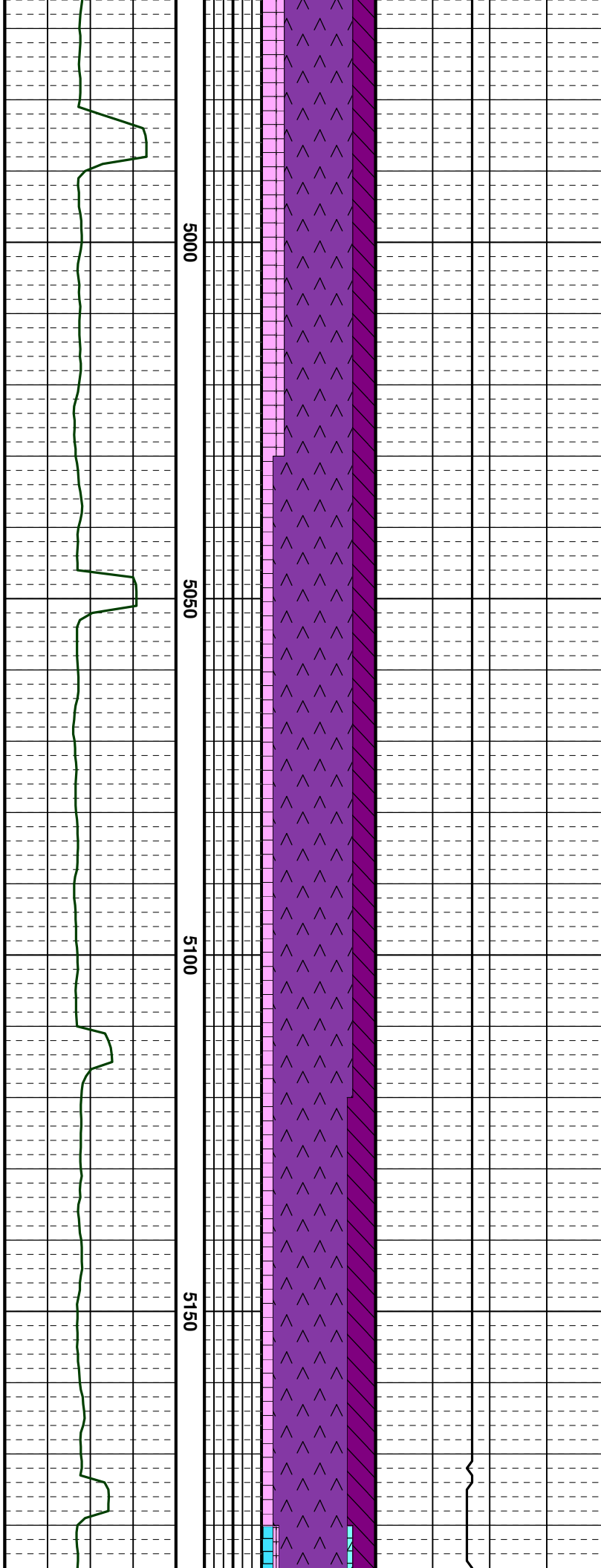
WOB: 21 RPM: 61
SPM: 159 SPP: 2146

SA: off wht-wht, brt-frm,
dul, non calc, blk-cubic,
scat intbd trnsi GYP. No
fluor, no cut.



ANHY: off wht-wht sme
rd/orng, brtl-frm, sme
hd, dul, non calc,
amor-blky, scat intbd
trnsi GYP. No fluor, no
cut.





MWI 10
MWO 10

MD 4987' Inc 3° Azm
8° TVD 4983.3' VS
-70.56'

WOB: 20 RPM: 68
SPM: 158 SPP: 2213

MD 5050' Inc 3° Azm
19° TVD 5046.3' VS
-67.61'

MWI 10
MWO 10

MD 5114' Inc 2° Azm
27° TVD 5110.2' VS
-65'

WOB: 23 RPM: 58
SPM: 159 SPP: 2333

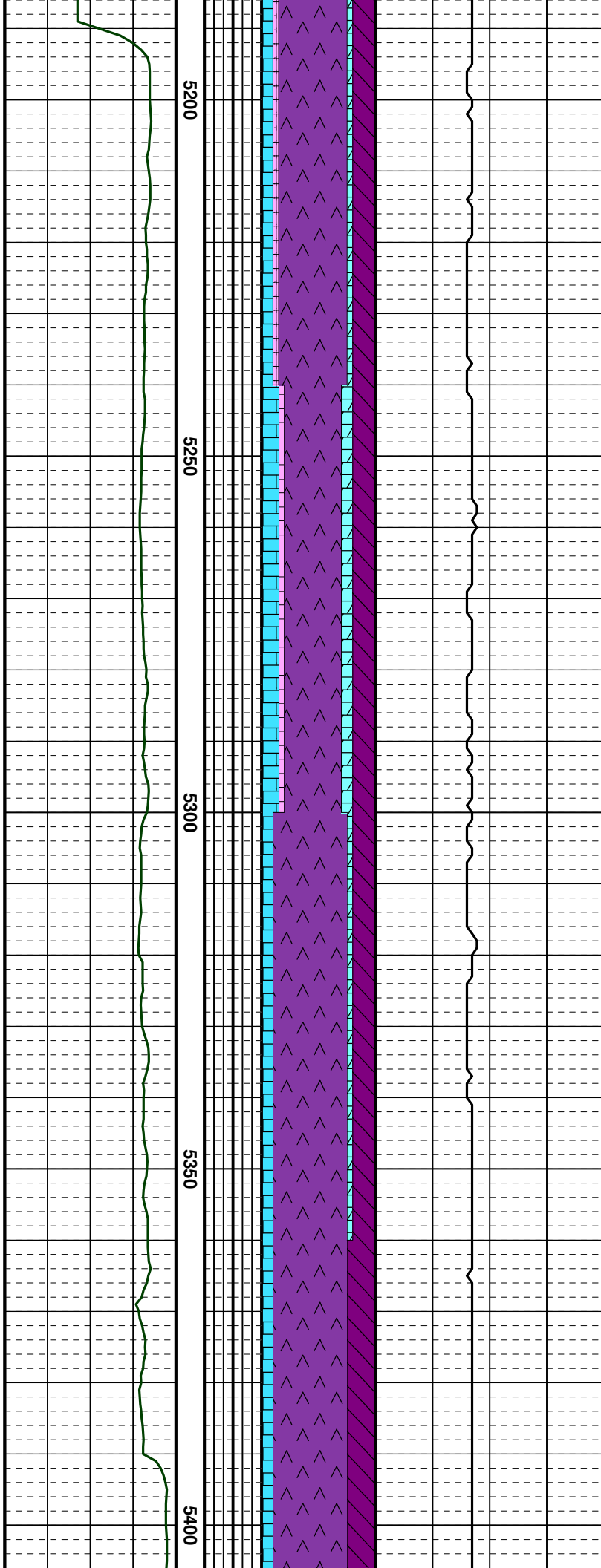
ANHY: off wht-wht sme
rd/orng - tr lt gry,
brtl-frm, sme hd, dul,
non calc, amor-blky,
scat intbd trnsi GYP. No
fluor, no cut.



SA: off wht-wht, brt-frm,
dul, non calc, blky-cubic,
scat intbd trnsi GYP. No
fluor, no cut.



ANHY: off wht-wht sme
rd/orng - tr lt gry,
brtl-frm, sme hd, dul,
non calc, amor-blky,
scat intbd trnsi GYP. No
fluor, no cut.



MWI 10
MWO 10

MD 5240' Inc 2° Azm
33° TVD 5236.1' VS
-60.38'

WOB: 31 RPM: 24
SPM: 160 SPP: 2217

MWI 10
MWO 10

MD 5303' Inc 2° Azm
36° TVD 5299' VS
-58.47'

WOB: 31 RPM: 72
SPM: 159 SPP: 2330

MD 5367' Inc 2° Azm
35° TVD 5363' VS
-56.28'

MWI 10
MWO 10

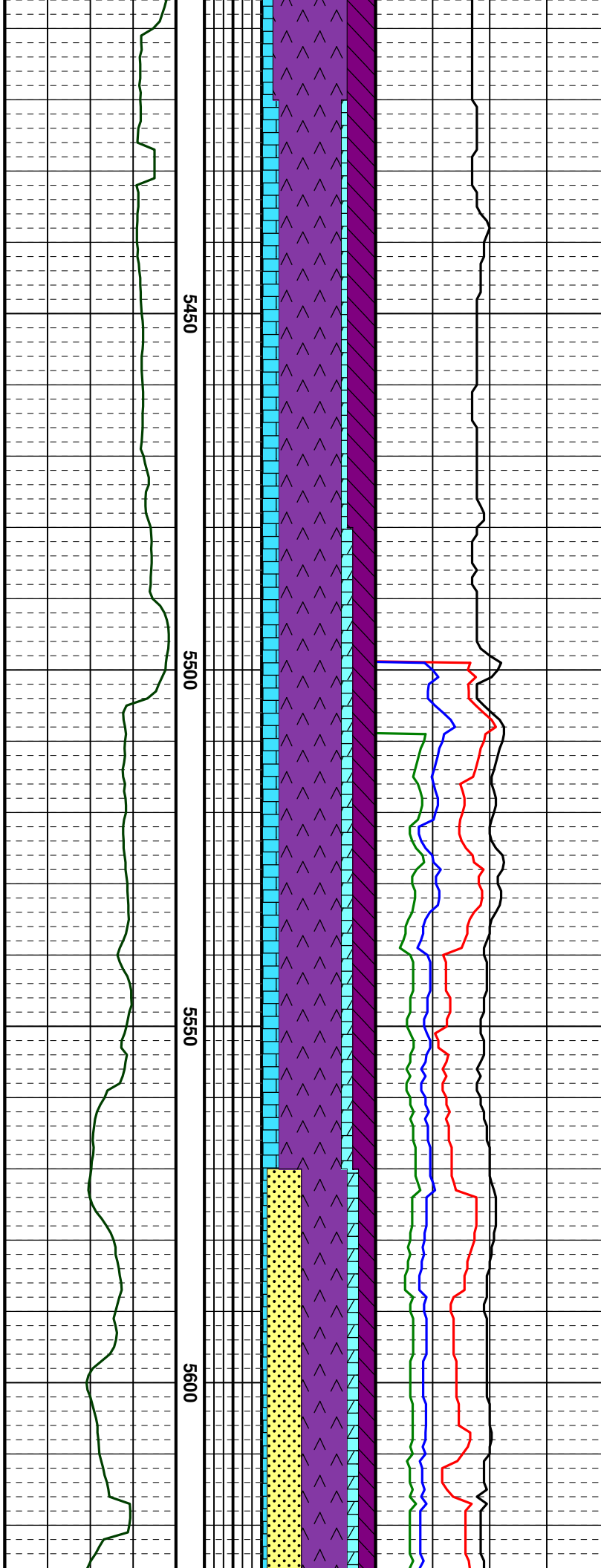
DOLO: mot lt tn-brn/
lt-drk gy, mdst-wkst, crp
xln- vf xln, frm-mod frm,
dns, brit, fri i.p., mic
suc-suc. No fluor, no
cut.

LS: wht- off wht, lt gry -
gry, tr v lt tan, sl mott
i.p., mdst- wkst, micxln-
vfxln, mas- mic suc, sl
dol ip, No fluor, no cut.

DOLO: mot lt tn-brn/
lt-drk gy, mdst-wkst, crp
xln- vf xln, frm-mod frm,
dns, brit, fri i.p., mic
suc-suc. No fluor, no
cut.

ANHY: off wht-wht sme
rd/orng - tr lt gry,
brtl-frm. sme hd. dul.





MWO 10

MD 5430' Inc 2° Azm
342° TVD 5425.9' VS
-54.07'

WOB: 30 RPM: 59
SPM: 159 SPP: 2422

MWI 10
MWO 10

WOB: 31 RPM: 58
SPM: 158 SPP: 2439

MWI 10
MWO 10

MD 5620' Inc 3° Azm
314° TVD 5615.8' VS
-57.47'

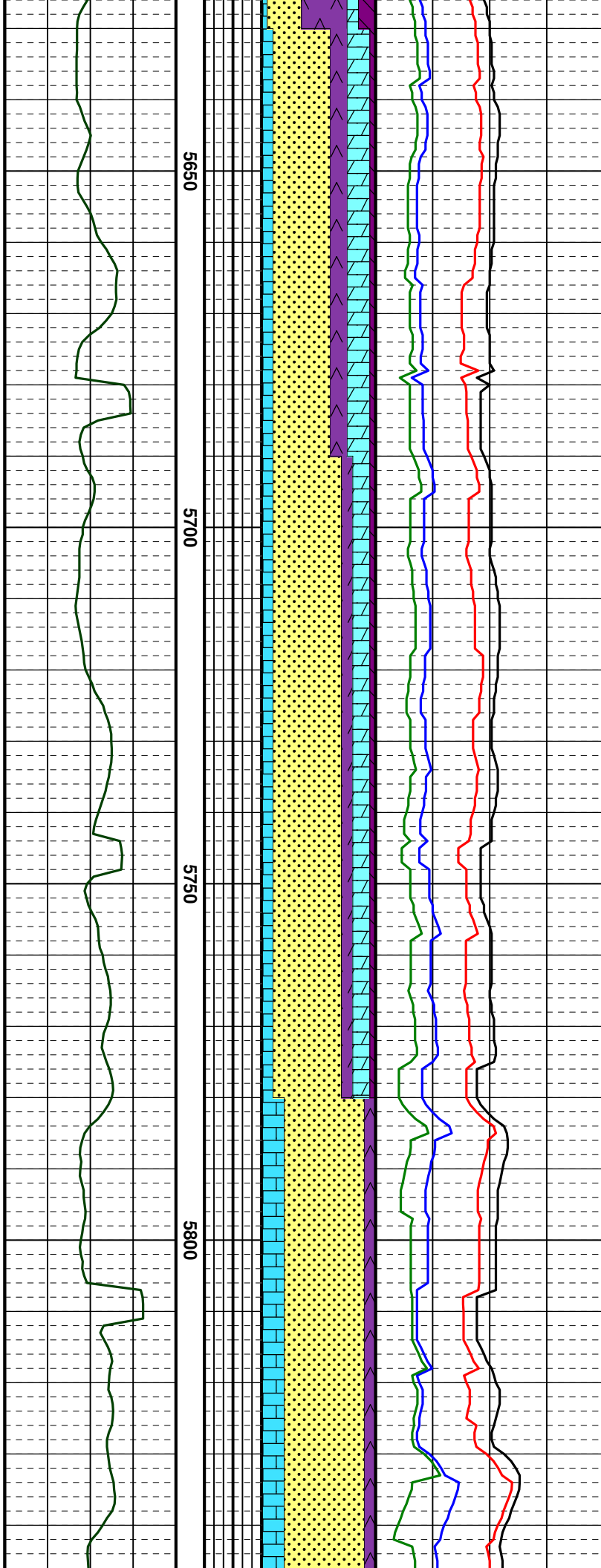
non calc, amor-blky,
scat intbd trnsi GYP. No
fluor, no cut.

LS: wht- off wht, lt gry -
gry, tr v lt tan, sl mott
i.p., mdst- wkst, micxln-
vfxln, mas- mic suc, sl
dol ip, No fluor, no cut.

DOLO: mot lt tn-brn/
lt-drk gy, mdst-wkst, crp
xln- vf xln, frm-mod frm,
dns, brit, fri i.p., mic
suc-suc. No fluor, no
cut.

SS: occ lt gry, gry, dk
gry, f - vf grn, sb rnd, wl
srt, w cons, sil cmt, sl
arg i.p., no visl o flor/cut





-41.47'

WOB: 30 RPM: 63
SPM: 160 SPP: 2435

DOLO: mot lt tn-brn/
lt-drk gy, mdst-wkst, crp
xln- vf xln, frm-mod frm,
dns, brit, fri i.p., mic
suc-suc. No fluor, no
cut.

MWI 10
MWO 10

LS: tr wht - off wht, pred
lt gry - gry, mott i.p.,
mdst- wkst, micxln-
vfxln, mas- mic suc, sl
dol i.p., No fluor, no cut.



WOB: 27 RPM: 59
SPM: 159 SPP: 2511

ANHY: gry - tr lt gry,
brtl-frm, sme hd, dul, fri
i.p., non calc, rndd -
amor-blky, scat intbd
trnsi GYP. No fluor, no
cut.

MWI 10
MWO 10

MD 5810' Inc 3° Azm
311° TVD 5805.5' VS
-41.17'

SS: lt gry, gry, dk gry, f -
vf grn, sb rnd, wl srt, w
cons, sil mtz, sl arg i.p.,
no fluor, no cut



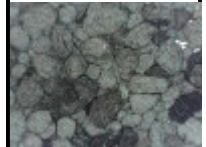
WOB: 31 RPM: 64
SPM: 161 SPP: 2501

SPM: 161 SPP: 2307

MD 5873' Inc 3° Azm
307° TVD 5868.5' VS
-39.19'

MWI 10
MWO 10

LS: gry- lt gry, tr crm,
mott i.p., mdst- wkst,
micxln- vfxln, mas- mic
suc, sl dol i.p., No fluor,
no cut.



MD 5936' Inc 3° Azm
308° TVD 5931.4' VS
-37.29'

WOB: 21 RPM: 61
SPM: 161 SPP: 2410

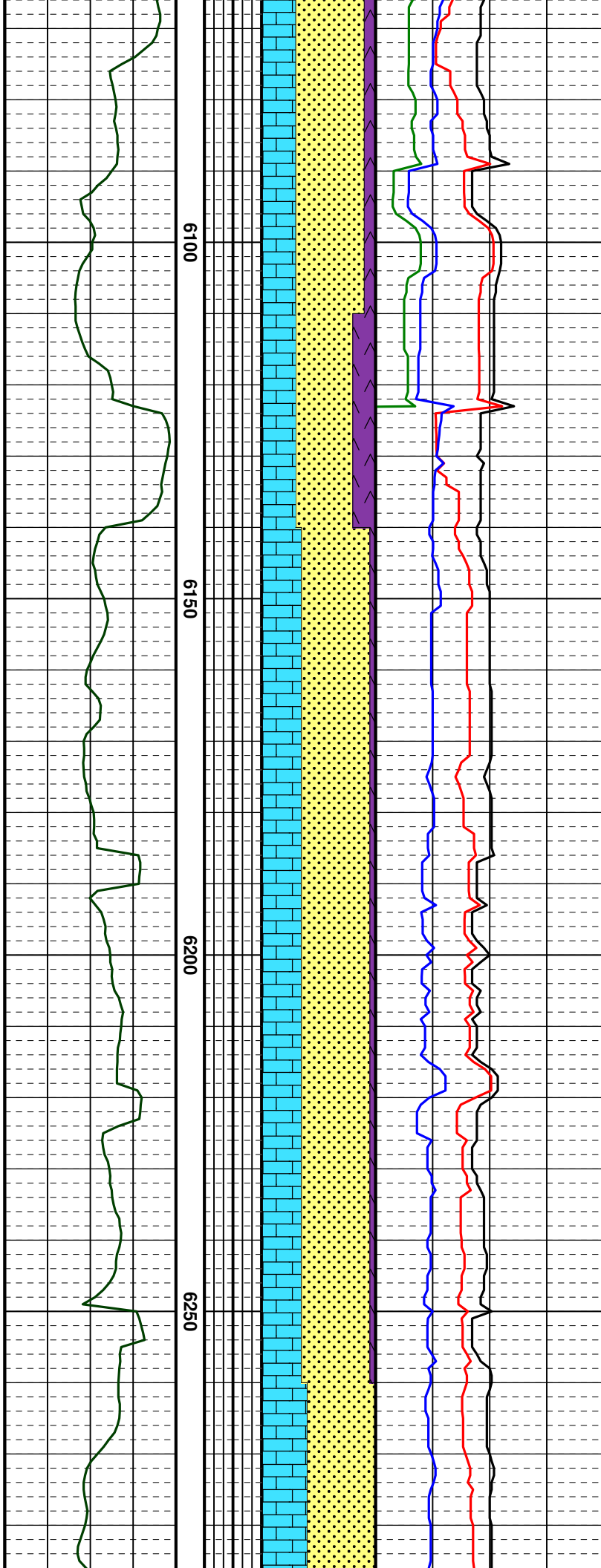
MD 5999' Inc 3° Azm
306° TVD 5994.3' VS
-35.42'

SS: lt gry - gry, tr crm/
brnsh wht, slt-v vf grn,
sb rnd, wl srt, w cons, sil
cmt, sl arg ip, no fluor,
no cut

MWI 10
MWO 10

WOB: 29 RPM: 65
SPM: 160 SPP: 2593

MD 6063' Inc 3° Azm



310° TVD 6058.2' VS
-33.58'

MWI 10
MWO 10

MD 6126' Inc 1° Azm
315° TVD 6121.2' VS
-32.1'

WOB: 58 RPM: 59
SPM: 159 SPP: 2598

MD 6190' Inc 1° Azm
347° TVD 6185.2' VS
-31.13'

MWI 10
MWO 10

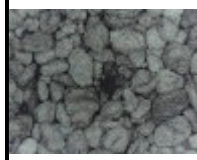
WOB: 33 RPM: 63
SPM: 160 SPP: 2700

MD 6253' Inc 1° Azm
354° TVD 6248.2' VS
-30.37'

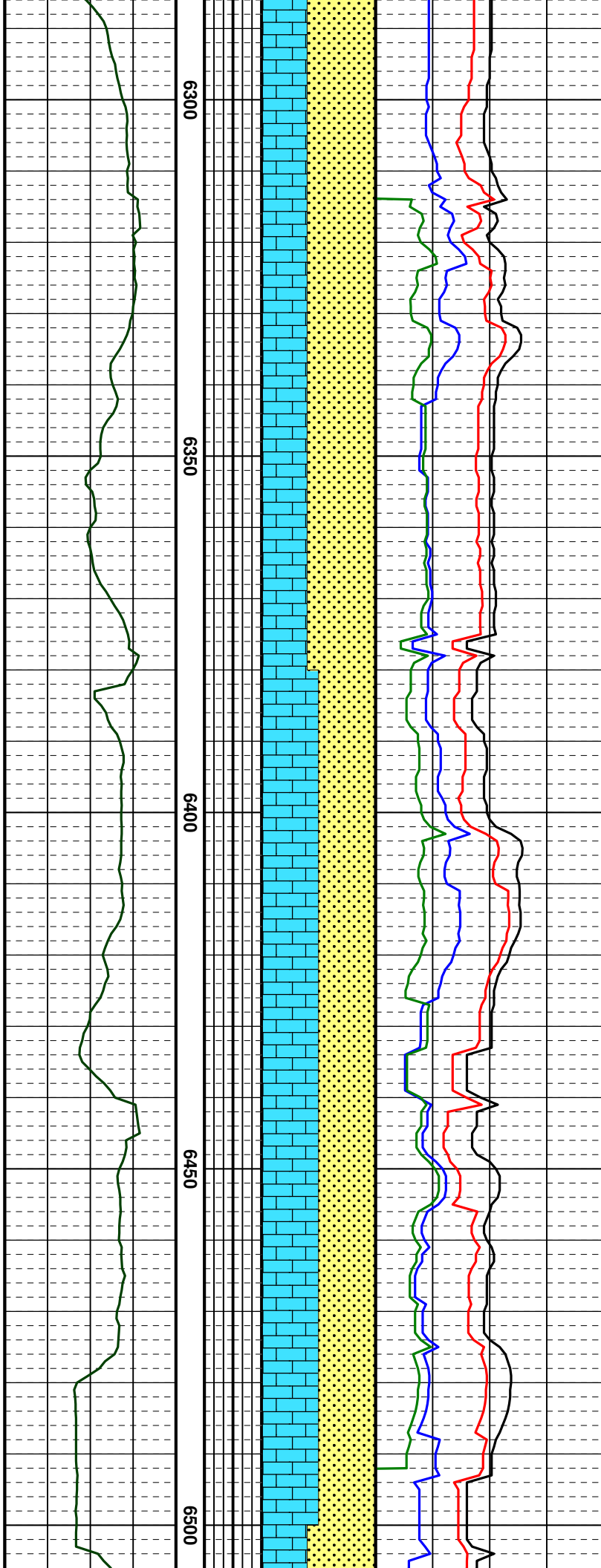
ANHY: gry - tr lt gry,
brtl frm, sme hd, dul, fri
i.p., non calc, rndd -
amor-blky, scat intbd
trnsi GYP. No fluor, no
cut.



LS: lt gry- v lt gry, tr
crm, mott dk gry/ wht
i.p., mdst- wkst, micxln-
vfxln, mas- mic suc, sl
dol i.p., No fluor, no cut.



SS: lt gry-gry w occ dk
gry slty lam, mod-w srtd,
m cons, arg w sl calc
cmnt, scat embd mica, tr
intbd succ ls strgr, tr
embd cal.



MWI 10.1
MWO 10.1

WOB: 30 RPM: 63
SPM: 160 SPP: 2732

MD 6380' Inc 1° Azm
336° TVD 6375.2' VS
-28.93'

WOB: 24 RPM: 66
SPM: 159 SPP: 2675

MD 6444' Inc 1° Azm
355° TVD 6439.2' VS
-28.3'

MWI 10.1
MWO 10.1

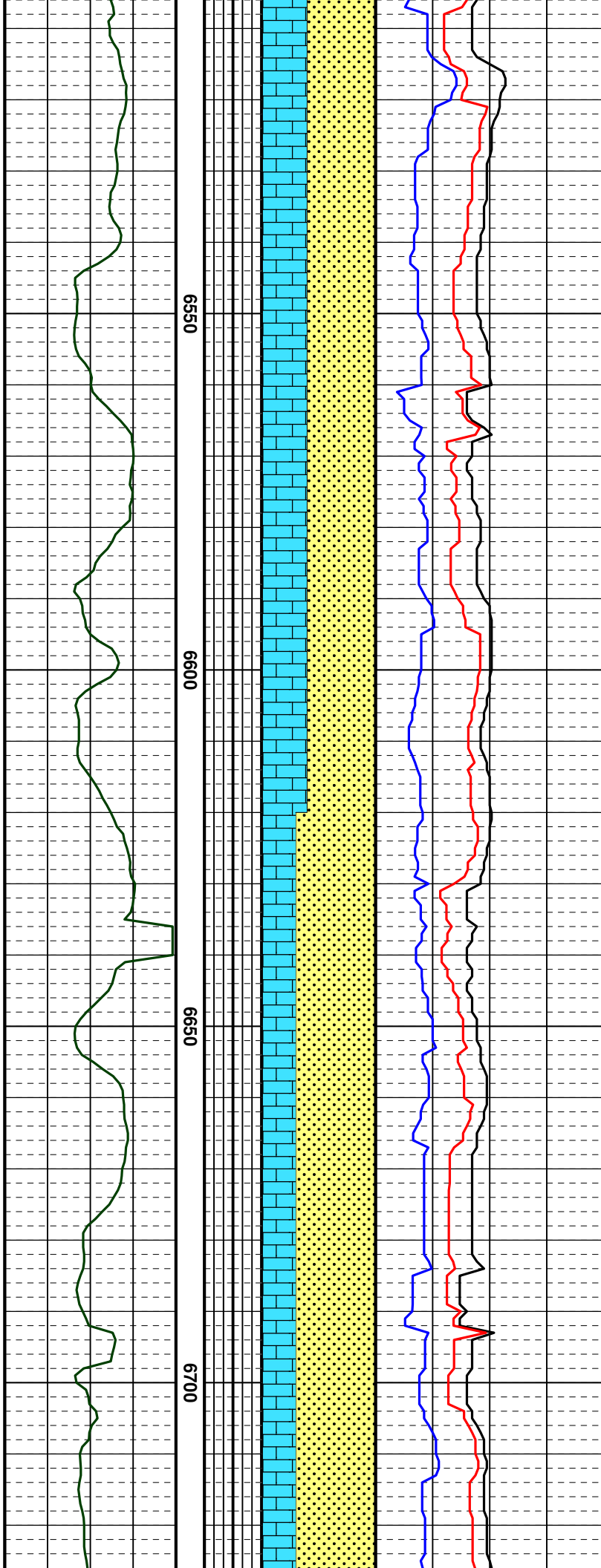
LS:wht- off wht, lt
gry-gry,mdst- wkst,
micxln- vfxln, mas- mic
suc, sl dol ip, trc embd
pyr. No fluor, no cut.

SS:lt gry-gry w occ dk
gry slty lam, mod-w srted,
m cons, arg w sl calc
cmnt,scat embd mica, tr
intbd succ ls strgr, tr
embd cal.

LS:wht- off wht, lt
gry-gry, mdst- wkst,
micxln- vfxln, mas- mic
suc, sl dol ip, trc embd
pyr. No fluor, no cut

SS: lt gry, tr off wh, vf
grn, sb rnd, wl srt, w
cons, sil cmt, sl arg ip,
no visl o flr/cut





MD 6507' Inc 1° Azm
357° TVD 6502.2' VS
-27.67'

WOB: 22 RPM: 78
SPM: 160 SPP: 2495

MD 6570' Inc 1° Azm
10° TVD 6565.2' VS
-26.95'

MWI 10.1
MWO 10.1

MD 6633' Inc 1° Azm
13° TVD 6628.2' VS
-26.26'

WOB: 24 RPM: 68
SPM: 159 SPP: 2508

MD 6697' Inc 1° Azm
7° TVD 6692.2' VS
-25.61'

no visib cut

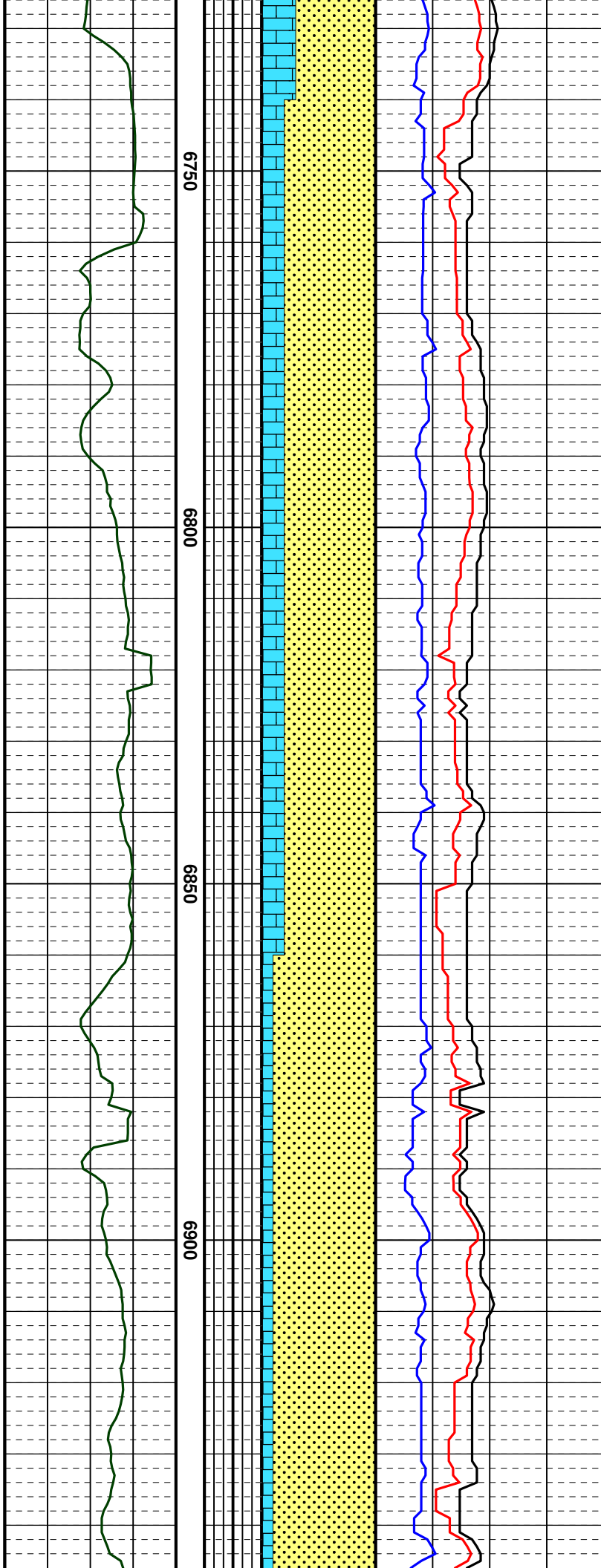
LS: wht- off wht, lt
gry-gry, mdst- wkst,
micxln- vfxln, mas- mic
suc, sl dol ip, trc embd
pyr. No fluor, no cut.

SS: lt gy-off wht, vf-f
grn, sb ang-rnd, m srt,
lsly cons-cons, sli
fri-mod frm, 10% dul yel
min fluor, no o cut/fluor

LS: off wht, lt gry- dk
gry, brn, mudst- wkst,
arg ip, sl aren ip,
micxln-vf mic xln, mic
suc, sl tr imbd pyr

SS: lt gry-gry w occ dk
gry slty lam, mod-w srtd,
m cons, arg w sl calc
cmnt, scat embd mica, tr
intbd succ ls strgr, tr
embd cal.





WOB: 28 RPM: 70
SPM: 159 SPP: 2642

MD 6760' Inc 1° Azm
358° TVD 6755.1' VS
-24.98'

MWI 10.1
MWO 10.1

MD 6823' Inc 1° Azm
4° TVD 6818.1' VS
-24.4'

WOB: 29 RPM: 61
SPM: 159 SPP: 2769

MD 6886' Inc 1° Azm
17° TVD 6881.1' VS
-23.81'

WOB: 28 RPM: 81
SPM: 159 SPP: 2718

LS:wht- off wht, lt
gry-gry,mdst- wkst,
micxln- vfxln, mas- mic
suc, sl dol ip, trc embd
pyr. No fluor, no cut.

SS:lt gry-gry w occ dk
gry slty lam, mod-w srtd,
m cons, arg w sl calc
cmnt,scat embd mica, tr
intbd succ ls strgr, tr
embd cal.

LS:wht- off wht, lt
gry-gry,mdst- wkst,
micxln- vfxln, mas- mic
suc, sl dol ip, trc embd
pyr. No fluor, no cut.

SS:wh off wh crm,sme lt
gry-gry, mod srtd, sb
angsb rnd, fria- sli fria, w
cons, calc cmt, sme
embd cal

