



INTEQ

Company : Nexus Energy

Well : Garfish-1

Interval : 0.00 - 2148.14 meters

Created : 08/Jun/2008 6:42:55 AM



FORMATION EVALUATION LOG

Chromatograph Data

Methane ppm

10 | 100 | 1000 | 10000

Ethane ppm

10 | 100 | 1000 | 10000

Propane ppm

10 | 100 | 1000 | 10000

iso-Butane ppm

10 | 100 | 1000 | 10000

n-Butane ppm

10 | 100 | 1000 | 10000

iso-Pentane ppm

10 | 100 | 1000 | 10000

n-Pentane ppm

10 | 100 | 1000 | 10000

Ditch Gas %

0.1 | 1 | 10 | 100

Analysis

Calcimetry

Dolomite %

LITHOLOGY DESCRIPTIONS

Cuttings

INTERPRETED
LITHOLOGY

MD meters 1:500

DIRECT FLUOR

Gamma Ray

m/hr

ROP

200 | 160 | 120 | 80 | 40
m/hr

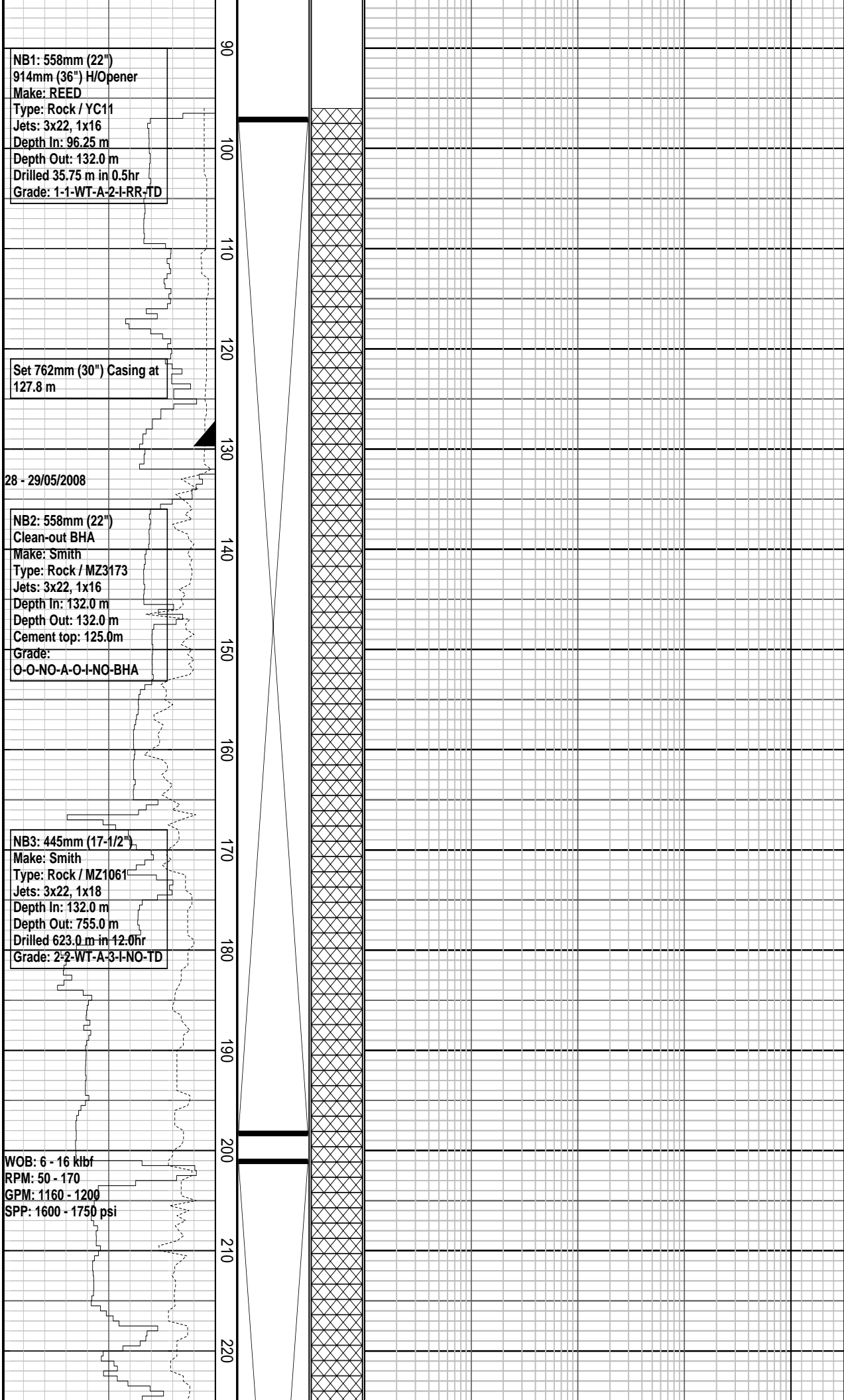
WEIGHT ON BIT

50 | kbf

ROP BACKUP

300 | 280 | 260 | 240 | 220
m/hr

RT-MSL: 39.9 mMDRT
Water Depth: 56.3 mMDRT
RT-Seabed: 96.2 mMDRT



Spud Garfish-1 @ 1330 hrs on 28/05/2008

MD: 86.66 m Azi: 347.82°
TVD: 86.66 m Incl: 0.22°

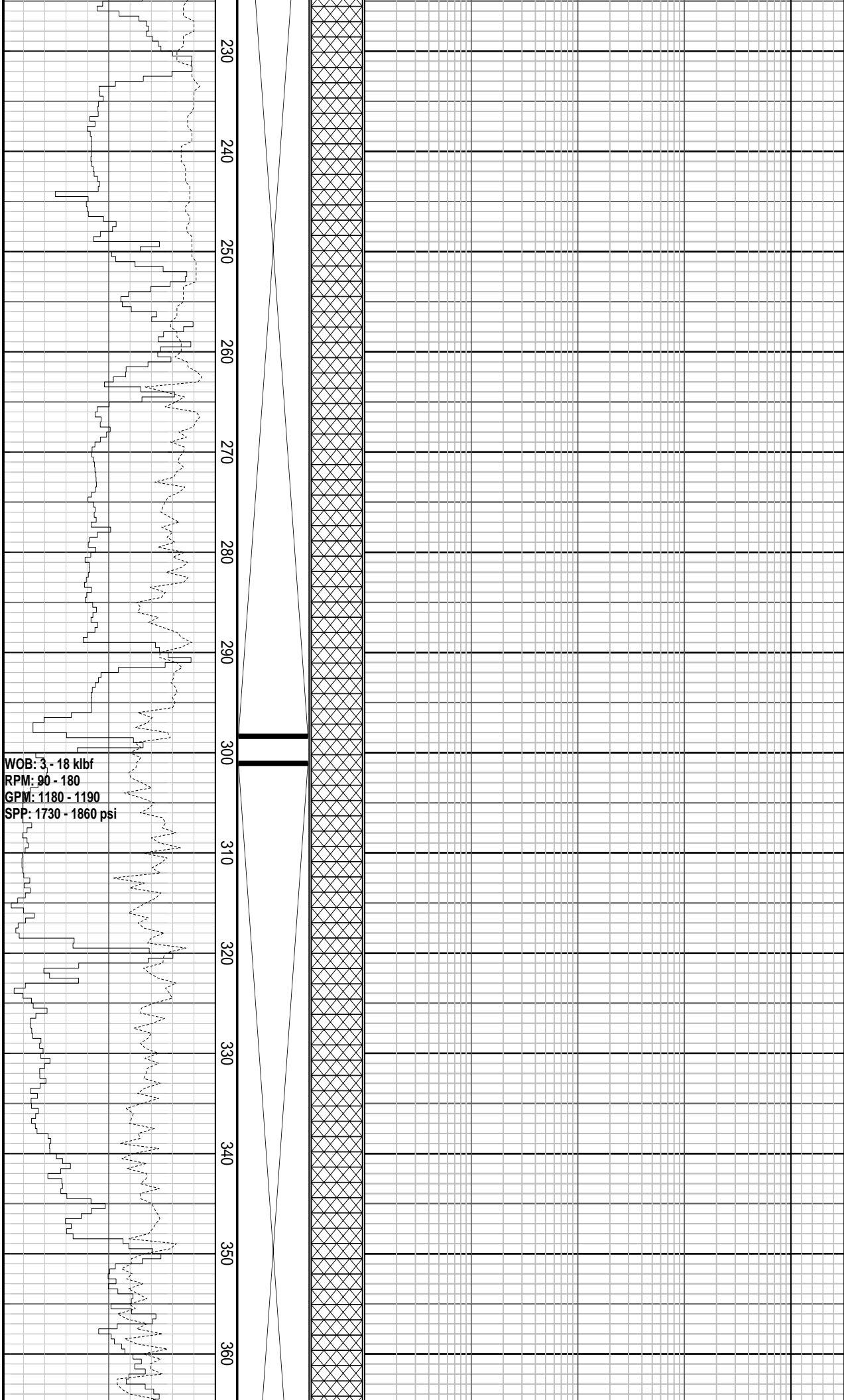
MD: 122.43 m Azi: 197.82°
TVD: 122.43 m Incl: 0.11°

36" section TD 131 m

Drill with seawater & Hi-Vis sweeps,
Returns to seabed, 96.25m to 755.0m

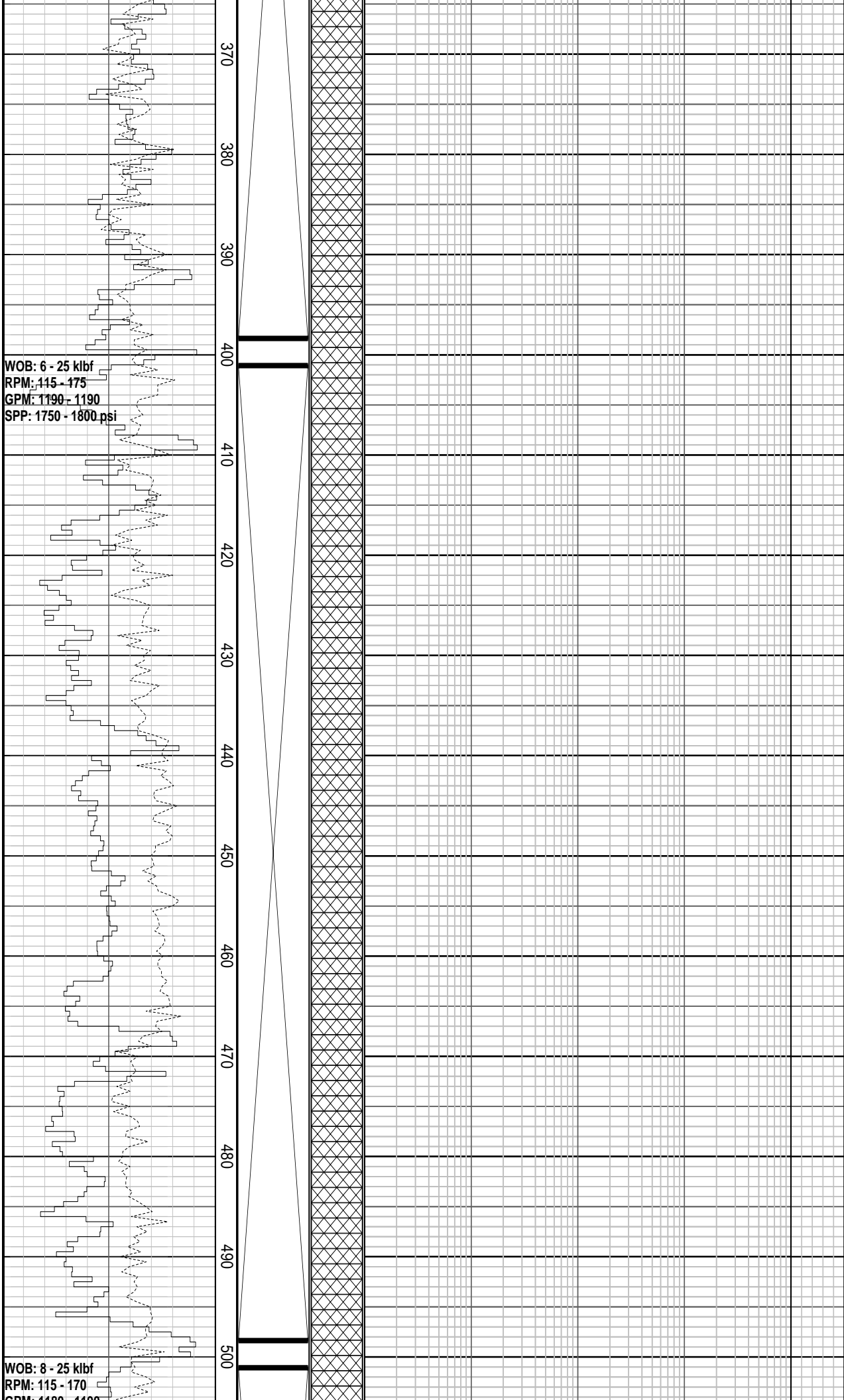
MD: 167.41 m Azi: 261.61°
TVD: 167.41 m Incl: 0.63°

MD:225.52 m Azi: 223.32°
TVD: 225.52 m Incl: 0.37°



MD:343.05 m Azi: 75.45°
TVD: 343.05 m Incl: 0.23°

Drill with seawater & Hi-Vis sweeps,
Returns to seabed, 96.25m to 755.0m



WOB: 6 - 25 klbf
RPM: 115 - 175
GPM: 1190 - 1190
SPP: 1750 - 1800 psi

WOB: 8 - 25 klbf
RPM: 115 - 170
GPM: 1190 - 1190

MD: 431.83 m Azi: 31.60°
TVD: 431.83 m Incl: 0.14°

GPM: 1180 - 1190

SPP: 1775 - 1825 psi

WOB: 10 - 25 klbf

RPM: 140 - 180

GPM: 1185 - 1190

SPP: 1790 - 1825 psi

510
520
530
540
550
560
570
580
590
600
610
620
630
640

MD: 520.09 m Azi: 306.99°
TVD: 520.09 m Incl: 0.26°

Drill with seawater & Hi-Vis sweeps,
Returns to seabed, 96.25m to 755.0m

MD: 608.29 m Azi: 280.34°
TVD: 608.28 m Incl: 0.58°

30/05/2008

WOB: 15 -25 klbf
RPM: 110 - 160
GPM: 1185 - 1210
SPP: 1815 - 1935 psi

NB4: 311mm (12-1/4")
Clean-out BHA
Make: Smith
Type: Rock / SVHC
Jets: 3x18, 1x18
Depth In: 755.0 m
Depth Out: 758.0 m
Cement top: 740.0M
Grade:1-1-RR-A-E-I-RR-TD

Set 340mm (13-3/8") Casing
at 746.5 m

31/05/2008 - 04/06/2008

05/06/2008

NB5: 216mm (8-1/2")
Make: Smith
Type: Rock / RSX519M
Jets: 5x14, 2x10
Depth In: 758.0 m
Depth Out: xxx m
Drilled xxm in xx hrs
Grade:xxxx

MD:667.52 m Azi: 215.10°
TVD: 667.51 m Incl: 0.58°

Drill with seawater & Hi-Vis sweeps,
Returns to seabed, 96.25m to 755.0m

MD:768.33 m Azi: 278.20°
TVD: 768.3 m Incl: 0.31°

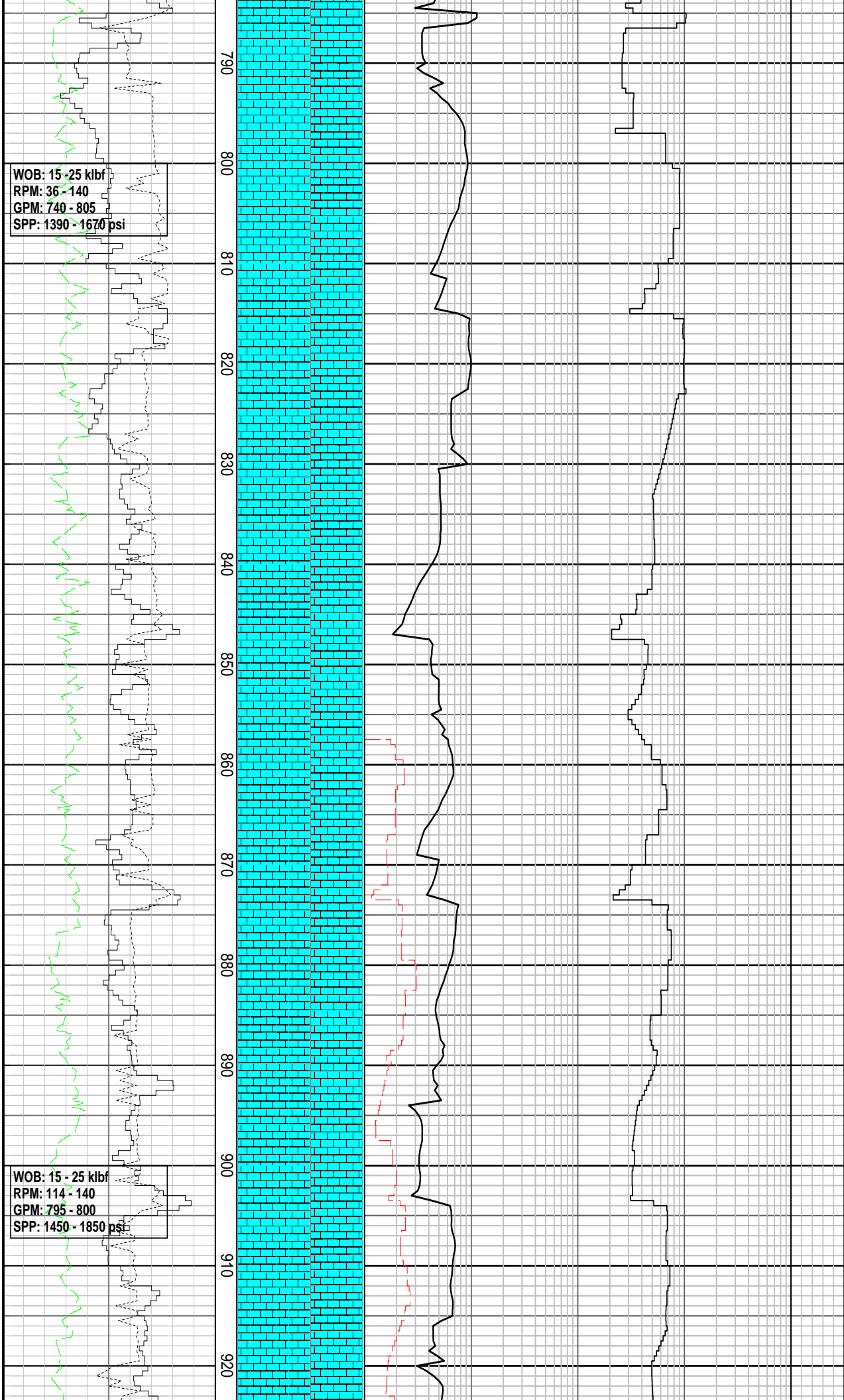
17-1/2" Section TD, 755.0m

Drill with KCL Polymer drilling
fluid, 755.0m to well TD

MW: 9.5 ppg FV: 58
PV: 15 YP: 27
Gels: 9/12/15 pH: 9.5

FIT @ 758.0m with 9.5ppg
EMW:17.39 ppg @ 1020psi

MD:746.93 m Azi: 194.47°
TVD: 746.93 m Incl: 0.21°

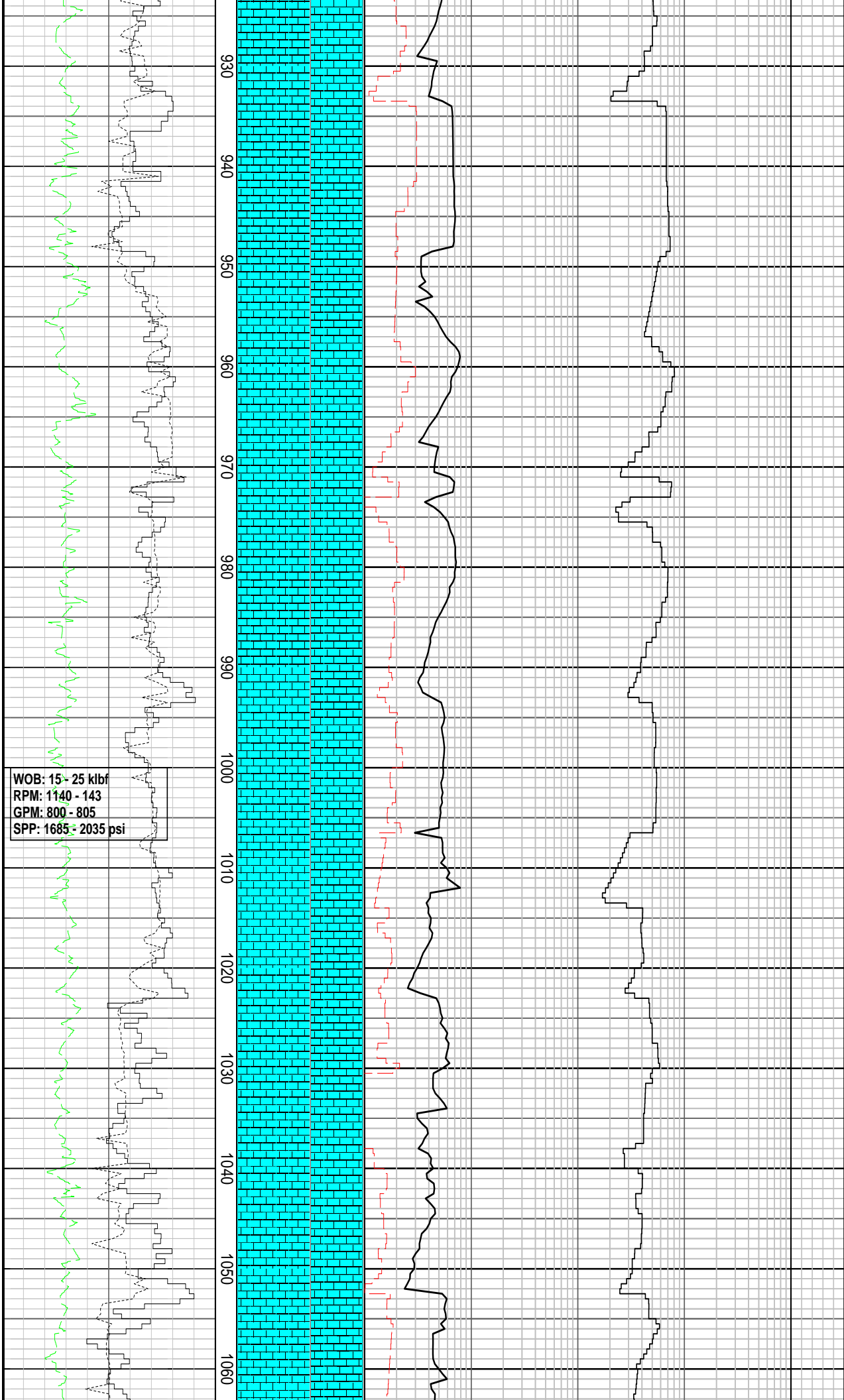


CALCILUTITE: m gy, v sft-sft, amor-sbblky, disp, com nod pyr, com foss & shl frag (foram), mnr xln calc, tr v f gr qtz, mnr m gy arg mtrx

MD: 857.62 m Azi: 288.14°
TVD: 857.6 m Incl: 0.21°

CALCILUTITE: m gy, v sft-sft, amor-sbblky, disp, com nod pyr, mnr foss & shl frag (foram), tr xln calc, com m gy arg mtx, grd-ARGILLACEOUS CALCILUTITE

MW: 9.6 ppg FV: 46
PV: 13 YP: 26
Gels: 9/18/22 pH: 10

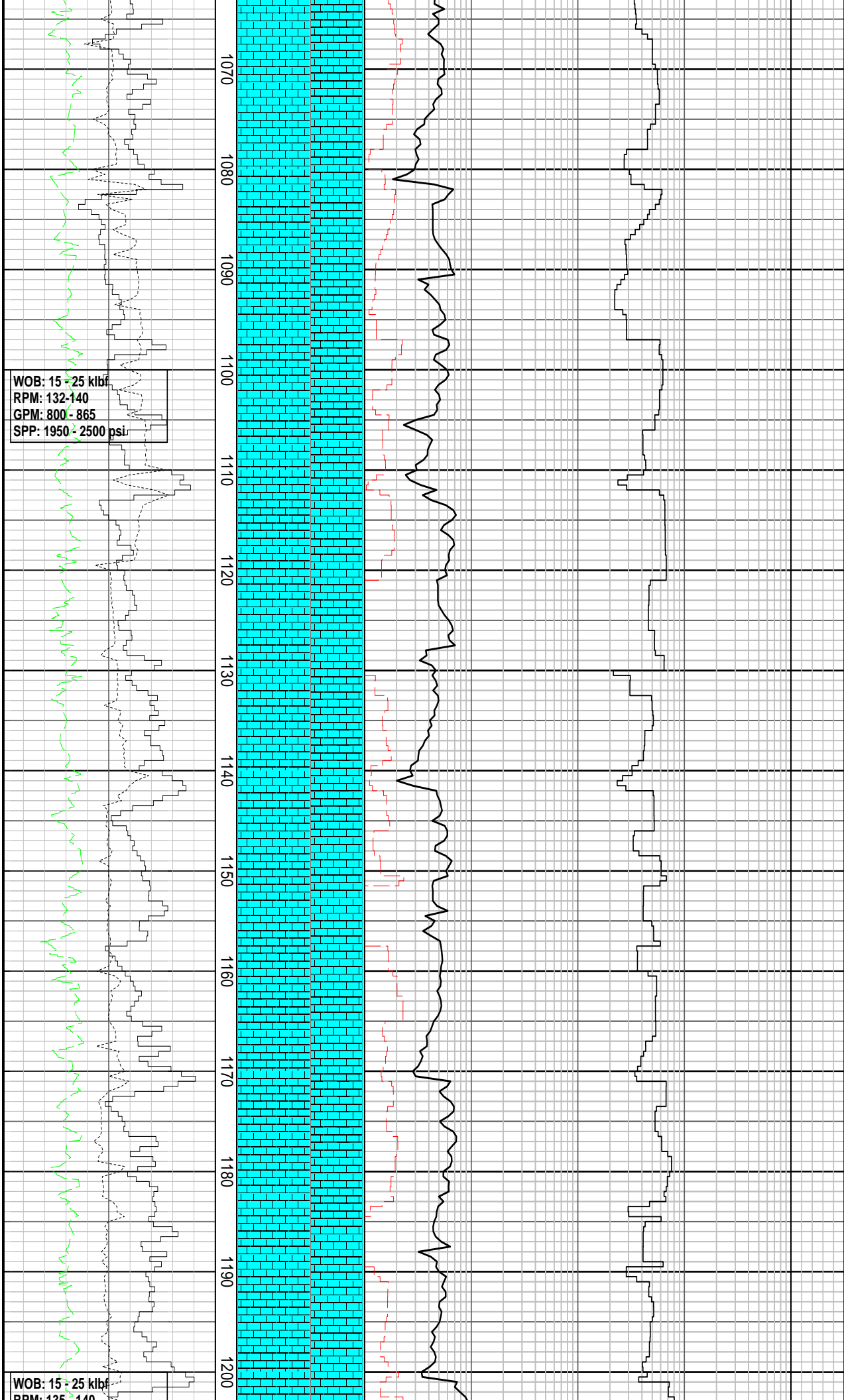


MD: 946.72 m Azi: 341.57°
TVD: 946.7 m Inc: 0.13°

CALCILUTITE: m gy, sft, amor-sbblky,
disp, tr nod pyr, mnr foss & shl frag
(foram), tr xln calc, com m gy arg mtx,
grd- ARGILLACEOUS CALCILUTITE

MD: 1035.71 m Azi: 313.67°
TVD: 1035.7 m Inc: 0.13°

ARGILLACEOUS CALCILUTITE: m gy,
sft- mod frm, sbblky, disp, tr foss &
shl frag (foram), tr xln calc, abd m gy
arg mtx



WOB: 15 - 25 klbf
RPM: 132-140
GPM: 800 - 865
SPP: 1950 - 2500 psi

MW: 9.6 ppg FV: 56
PV: 18 YP: 33
Gels: 14/20/23 pH: 9.5

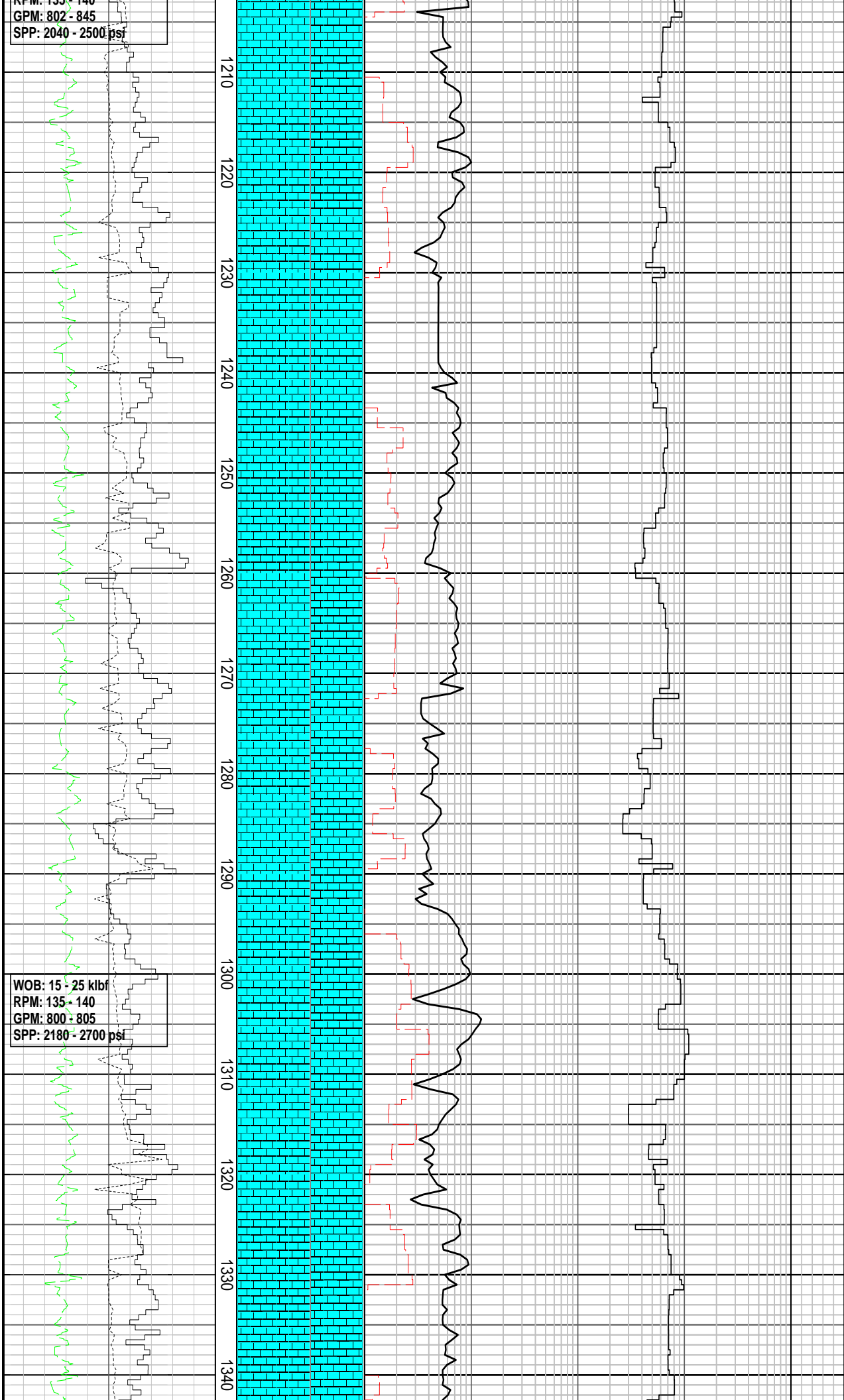
ARGILLACEOUS CALCILUTITE: m dk
olv gy, frm, sbblky-blky, disp, r but
diverse range of planktic & benthic
foram, tr bry frag, tr clus pyr nod, tr
xln calc

MD: 1184.34 Azi: 38.39°
TVD: 1184.3 Inc: 0.20°

ARGILLACEOUS CALCILUTITE: m dk
olv gy, frm, loc med bd, sbblky, disp

RPM: 135 - 140
GPM: 802 - 845
SPP: 2040 - 2500 psi

WOB: 15 - 25 klbf
RPM: 135 - 140
GPM: 800 - 805
SPP: 2180 - 2700 psi

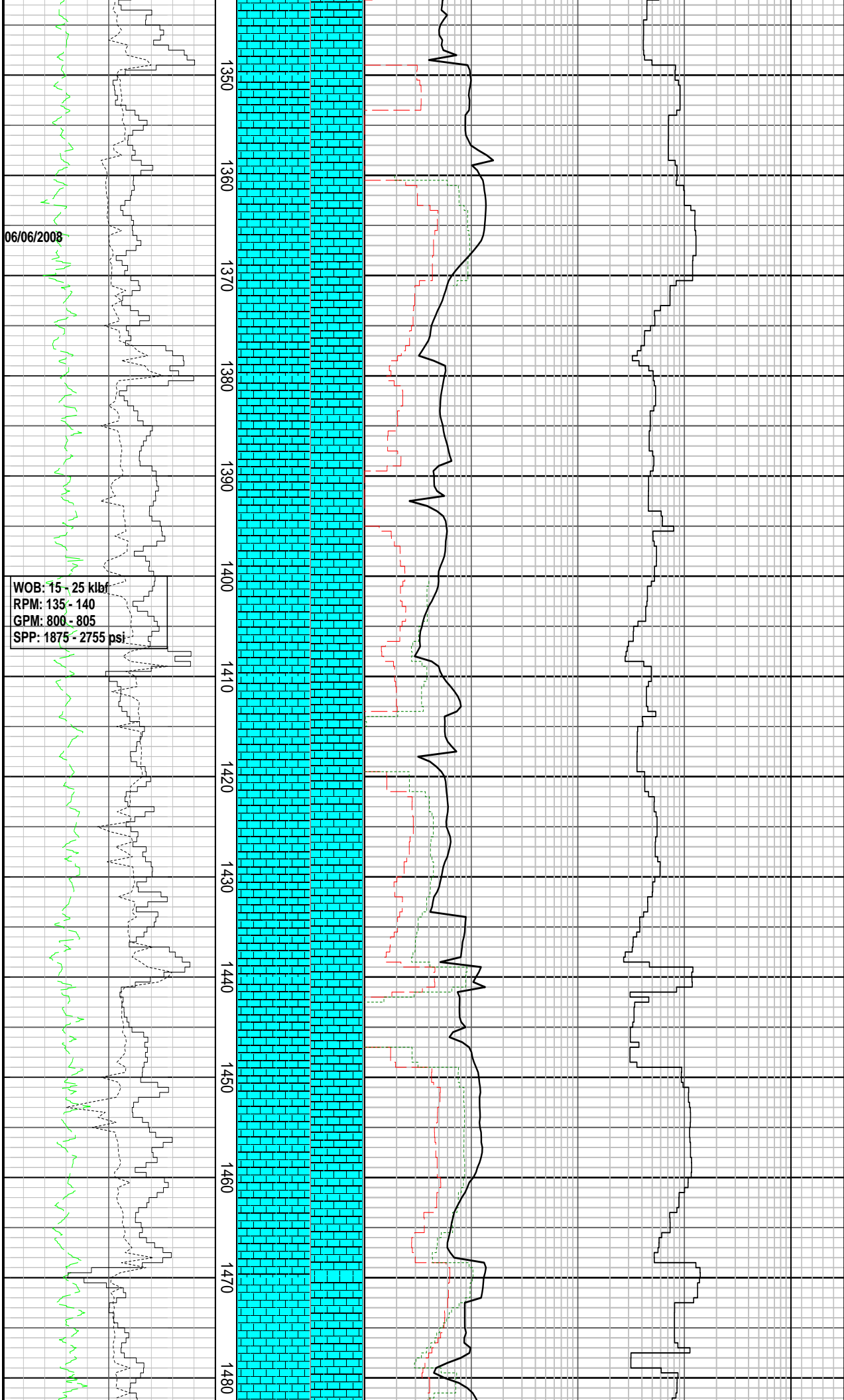


oliv gy, fmm, loc mod hd, sbblky, disp,
foram, tr bry frag, tr clus pyr nod, sli
more arg

ARGILLACEOUS CALCILUTITE: m olv
gy-grnsh gy, frm, sbblky-blky, mnr sft
mod hd, r foram, tr wh, or, trnsp xln
calc, tr pyr

ARGILLACEOUS CALCILUTITE: m olv
gy, frm, sbblky-blky, hom, tr foram, tr
pyr, tr bry, tr or trnsl calc

MD: 1333.11 m Azi: 19.33°
TVD: 1333.1 m Inc: 0.43°

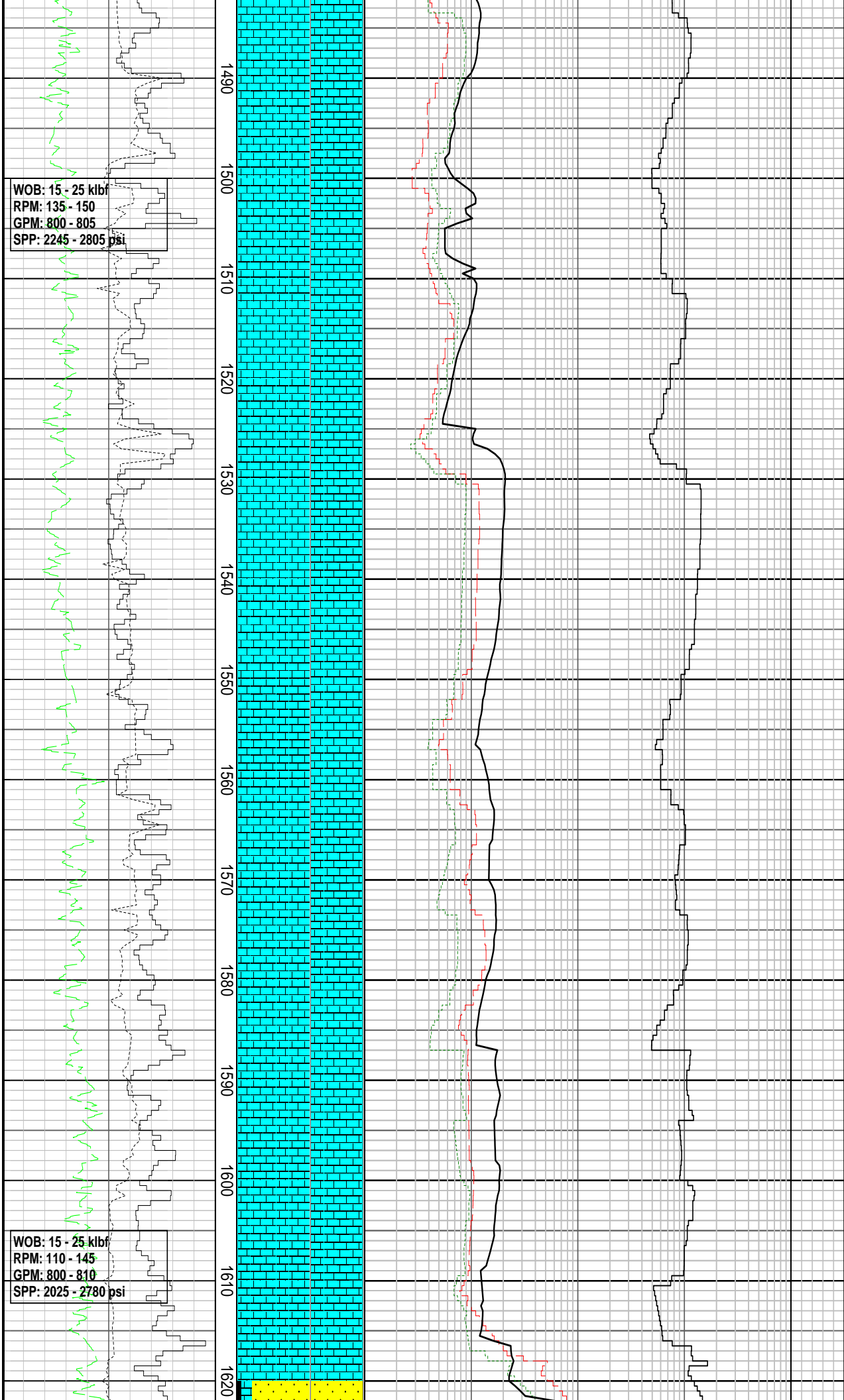


ARGILLACEOUS CALCILUTITE: m olv
gy-grnsh gy, sft-hd, mod frm,
sbbiky-blky, r planktic foram, tr pyr
nod clus

ARGILLACEOUS CALCILUTITE: lt olv
gy-grnsh gy, sft-hd, mod frm,
sbbiky-blky, tr foram, tr pyr nod clus

ARGILLACEOUS CALCILUTITE: lt olv
gy-grnsh gy, sft-hd, mod frm,
sbbiky-blky, com foram, tr ech spn, tr
xln pyr agg

ARGILLACEOUS CALCILUTITE grd to
CALCAREOUS CLAYSTONE: lt olv
gy-m dk olv gy, frm, sbbiky-blky, r
foram, tr pyr strk, tr lt or trnsl xln calc



MD: 1480.34 m Azi: 19.34°
TVD: 1480.3 m Inc: 0.74°

ARGILLACEOUS CALCILUTITE grd to
CALCAREOUS CLAYSTONE: lt olv
gy-m dk olv gy, frm, sbblky-blky, r
foram, tr pyr strk, tr lt or trnsl xln calc

tr GLAUCONITIC CALCARENITE: lt
olv gy spkld gysh gn, frm-mod hd,
sbfis, sln, com m-crs sd szgysh gn
glau

ARGILLACEOUS CALCILUTITE: lt olv
gy-m lt gy, m gy, frm, sbblky-blky,
hom, disp, abd m lt gy arg mtrx, grd to
calc clst

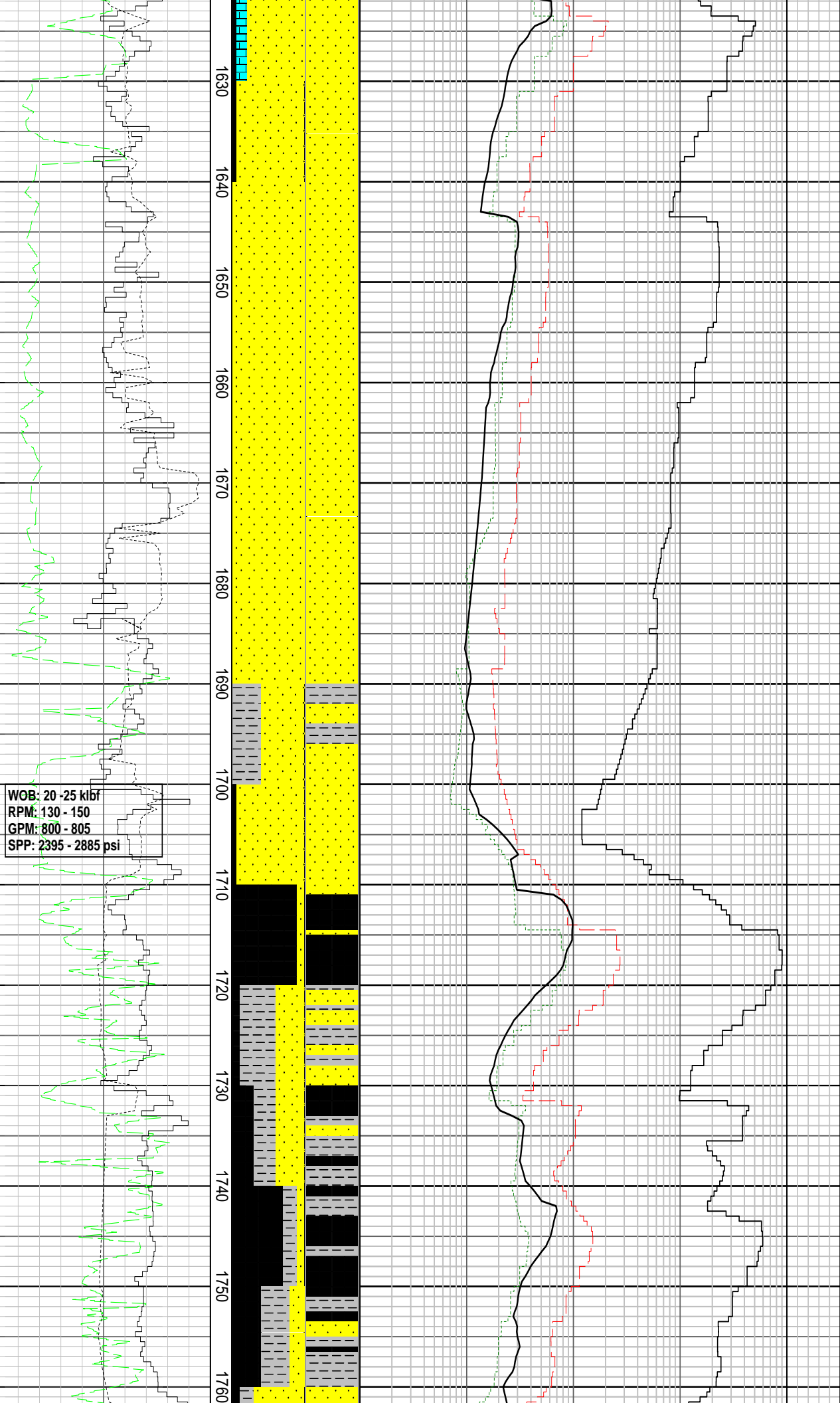
MW: 9.9 ppg FV: 55
PV: 12 YP: 27
Gels: 11/17/19 pH: 9.0

tr GLAUCONITIC CALCARENITE: lt
olv gy spkld gysh gn, frm-mod hd,
sbfis, sln, com m-crs sd szgysh gn
glau

MD: 1596.44 m Azi: 16.38°
TVD: 1569.4 m Inc: 0.83°

FORAMINIFERAL CALCILUTITE: lt olv
gy-m gy, frm, sbblky-blky, disp, abd
foram, f-m gr sz, r nod pyr, abd m lt gy
arg mtrx

MD: 1599.08 m Azi: 17.89°
TVD: 1599.0 m Inc: 0.79°



SANDSTONE: quartzose, wh-v lt gy, clr-trnsl gr, tr mky, returned lse, bimodal 60% v crs-gran, 40% f-crs, v crs-gran gr are v ang-rndd, l-hi sph, elong i/p, tr-r nod pyr, tr intgran arg mtx, tr lith gr, gd inferred por, no shw

SANDSTONE: quartzose, wh-v lt gy, tr lt brnsh gy-pl yel or, returned lse, clr-trnsl gr, f-gran, pred crs-gran, abd f-crs, ang-rnd, low-hi sp, pr srt, tr pyr fros on some v crs- gra

CALCAREOUS CLAYSTONE: lt gy-m gy, mod frm-frm, sbbiky-blky, sli disp, mntr dissem pyr, loc abd, strongly calc

COAL: brnsh blk-blk, frm, brit, sbbiky-sbconch, fiss-sbfiss i/p, sb vit-vit lstr

SANDSTONE: quartzose, wh-v lt gy, tr lt brnsh gy, returned lse, f-v crs, pred f-m, mntr-com crs-v crs, ang-rnd, pred ang-sbrnd, mod-hi sph, pr srt, tr lt gy arg mtx, gd inf por, no

MD: 1745.75 m Azi: 4.99°
TVD: 1745.7 m Inc: 1.09°

MW: 9.9 ppg FV: 53
PV: 17 YP: 33
Gels: 14/21/26 pH: 9.0

CARBONACEOUS CLAYSTONE: m dk
gy-dk gy, mod frm-pred frm,
sbbiky-blky, sli disp, mn'r disse'm pyr,
abd carb mat, wk calc

SANDSTONE: quartzose, wh-v lt gy, tr
lt brnsh gy, returned lse, v f-m gr,
pred f-m, mn'r v f-f, ang-sbrnd, pred
sbang-sbrnd, mod-hi sph, wl srt, tr-r lt
gy arg mtx, fr inf por, no s

CLAY: brnsh gy-dk gy, mod frm-pred
frm, sbbiky-blky, sli disp, mn'r disse'm
pyr, com carb frag, wk calc

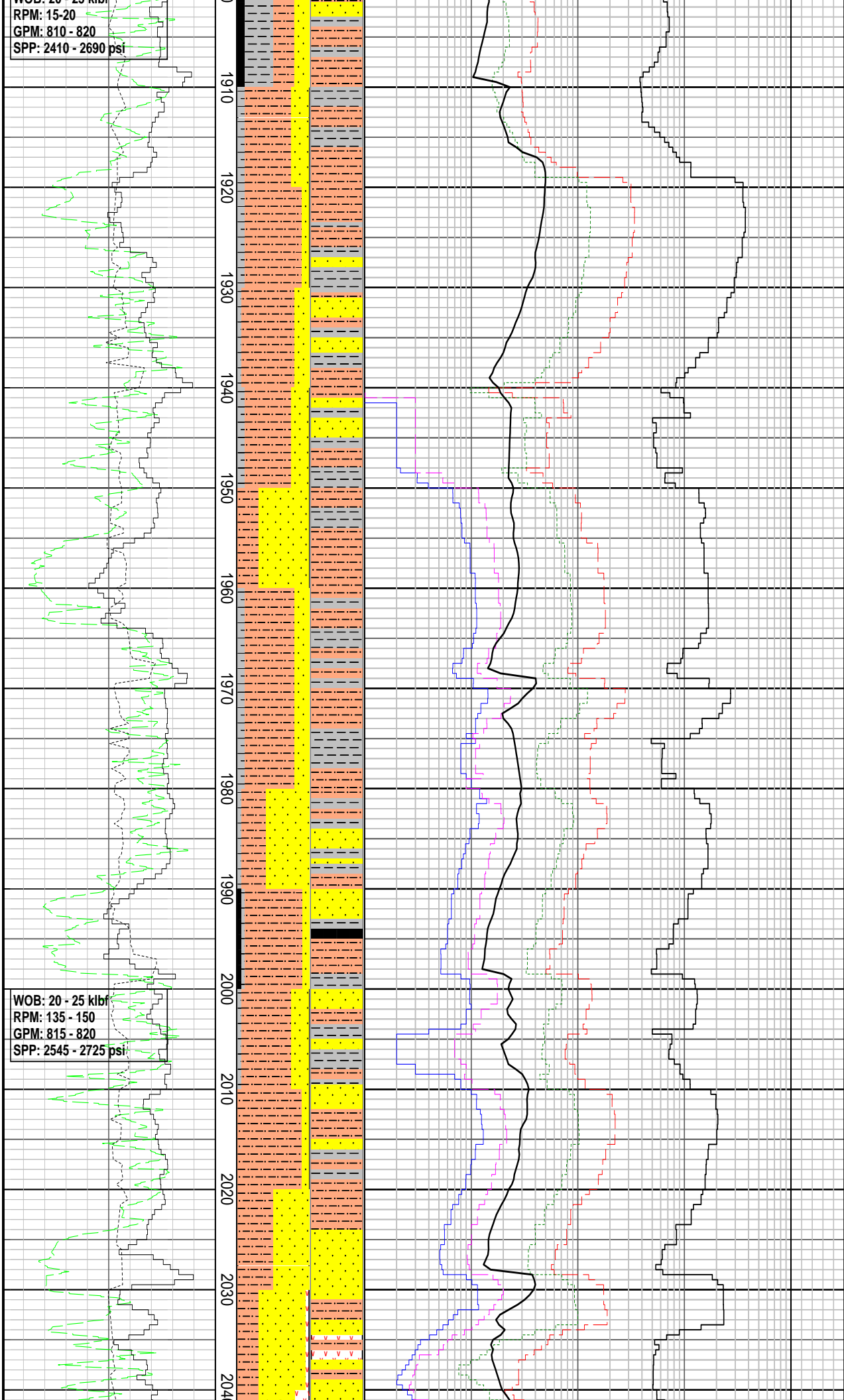
WOB: 20 - 25 klbf
RPM: 135 - 150
GPM: 800 - 815
SPP: 2245 - 2545 psi

WOB: 20 - 25 klbf

MD: 1893.73 m Azi:
353.25°
TVD: 1893.6 m Inc: 1.24°

WOB: 20 - 25 klbf
RPM: 15-20
GPM: 810 - 820
SPP: 2410 - 2690 psi

WOB: 20 - 25 klbf
RPM: 135 - 150
GPM: 815 - 820
SPP: 2545 - 2725 psi



SILTSTONE: lt-m brnsh gy, sft-mainly frm-mod hd, sbblky-blky, non calc, com hi micaceous, com w/ blk carb-coaly microlaminae, com nod-irr pyr masses

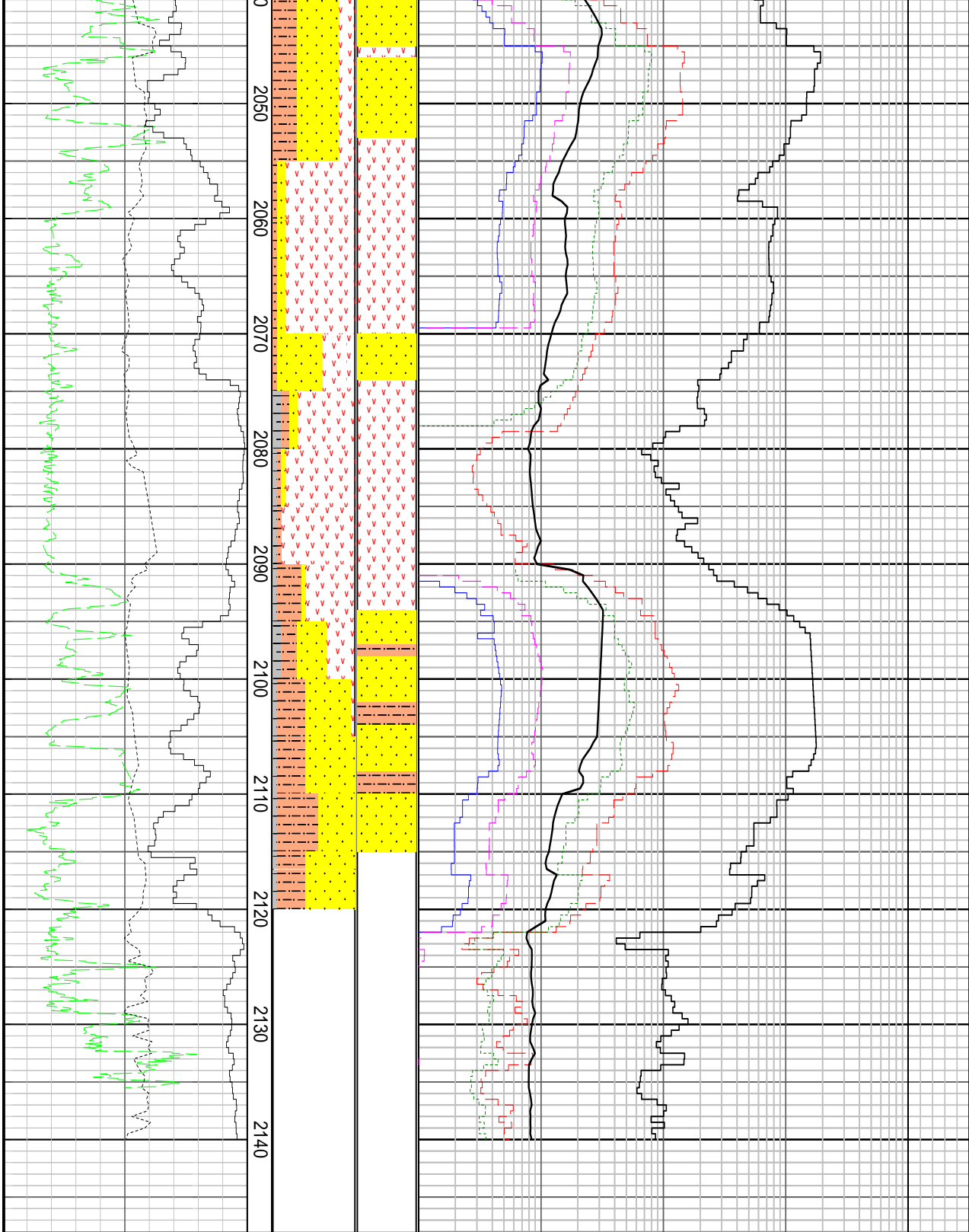
MW: 10.0 ppg	FV: 52
PV: 17	YP: 29
Gels: 14/20/25	pH: 9.0

SANDSTONE: quartzose, v lt gy, lse, bimodal 1) v f u-m l, pr srt 2) crs u-gram, mod srt, sbang-sbrnd, sbsph trnsp-trnsl qtz, tr rnd m dk gy lith

SILTSTONE: brnsh gy-gy brn, frm-mod hd, sbfiss-sbblky, w/ abd v f carb spk, non calc, r w/ lenses of microxln pyr

MD: 2040.91 m	Azi:
351.03°	
TVD: 2040.8 m	Inc: 1.64°

VOLCANICS: v lt yel-or, frm-mod hd, flk, lt gy groundmass w/ extensive clay seams & codt, non calc



VOLCANICS: lt gy-lt gnsh gy, spkl lt or yel spkl dk gy, mod hd, blk, non calc, lt gy gndmass, loc apr vnlets lt yel cl, len sulphide, loc acic gy xln. No fluoro

SILTSTONE: brnsh gy-dsky brn, frm-mod hd, sbblky-blky, loc highly micaceous, loc carb, r carb microlam

SANDSTONE: lt gy, lse, f l-m u, mod srt, sbang-rndd, trnsp-trnsl qtz

SILTSTONE: dk brnsh gy, blk, mod hd, com f carb mat, c lens

BASALT: dk gnsh gy-gnsh blk, hd, blk, loc f-m grnd phenocrysts

CLAYSTONE: v lt brn-lt olb, frm, sbfis wxy tex, non calc

VOLCANICS: v lt gy-pl gn, sft, sbblky, non calc, r clus pyr xln

SANDSTONE: lt gy, lse, v f u-f u, w srt tr v crs gr, sbang-sbrndd, trnsp-trnsl qtz

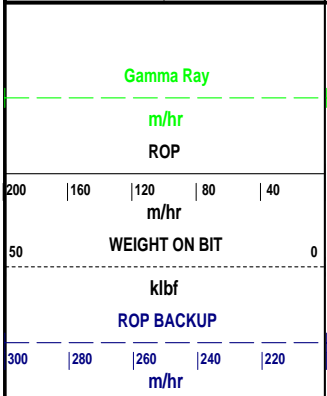
SILTSTONE: brnsh gy, dk yelsh brn-dsky brn, mod h, blk-sbfis, non calc, r carc microlam, grd-clst

CLAYSTONE: m gy, fis, pl yel brn i/p, v sft, frm, wxy tex, non calc

SANDSTONE: lt gy, lse, bimod crs u-gran, mod srt, sbord f l-m l, mod w srt, sbang-sbrnd, r w rndd, trnsl qtz

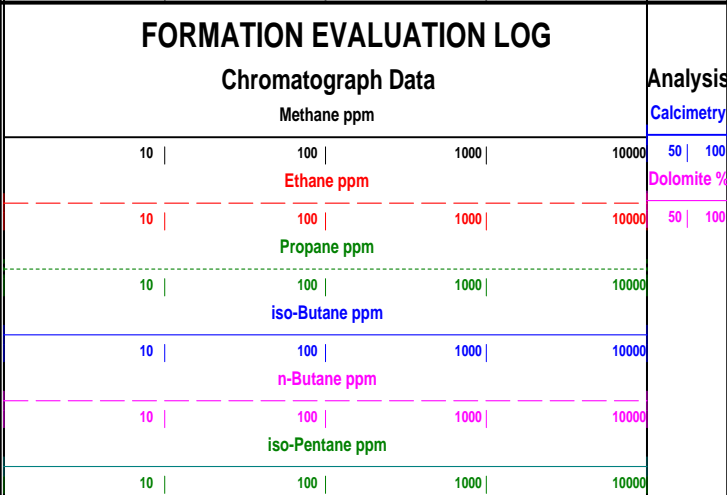
SANDSTONE: crs u-v crs u, r gran, mod ang frag, mnr sbrnd qtz grn, t m dk gy metased lit, incl 10% f-c sst agg h ang flk, stng calc cmt, n vis por, brt lt yel drt fluoro bt n cut,

SILTSTONE: grd-clst, brnsh gy, dk yel brn, dsky brn, com carb mat or microlam, com lse v c sd-sz pyr nod. incl 2% sst brt fluoro



Cuttings
MD meters 1:500

INTERPRETED LITHOLOGY



Analysis
Calcimetry
50 | 100

DIRECT FLUOR
50 | 100

Dolomite %
50 | 100

LITHOLOGY DESCRIPTIONS

				n-Pentane ppm						
				10		100		1000		10000
				Ditch Gas %						
				0.1		1		10		100