

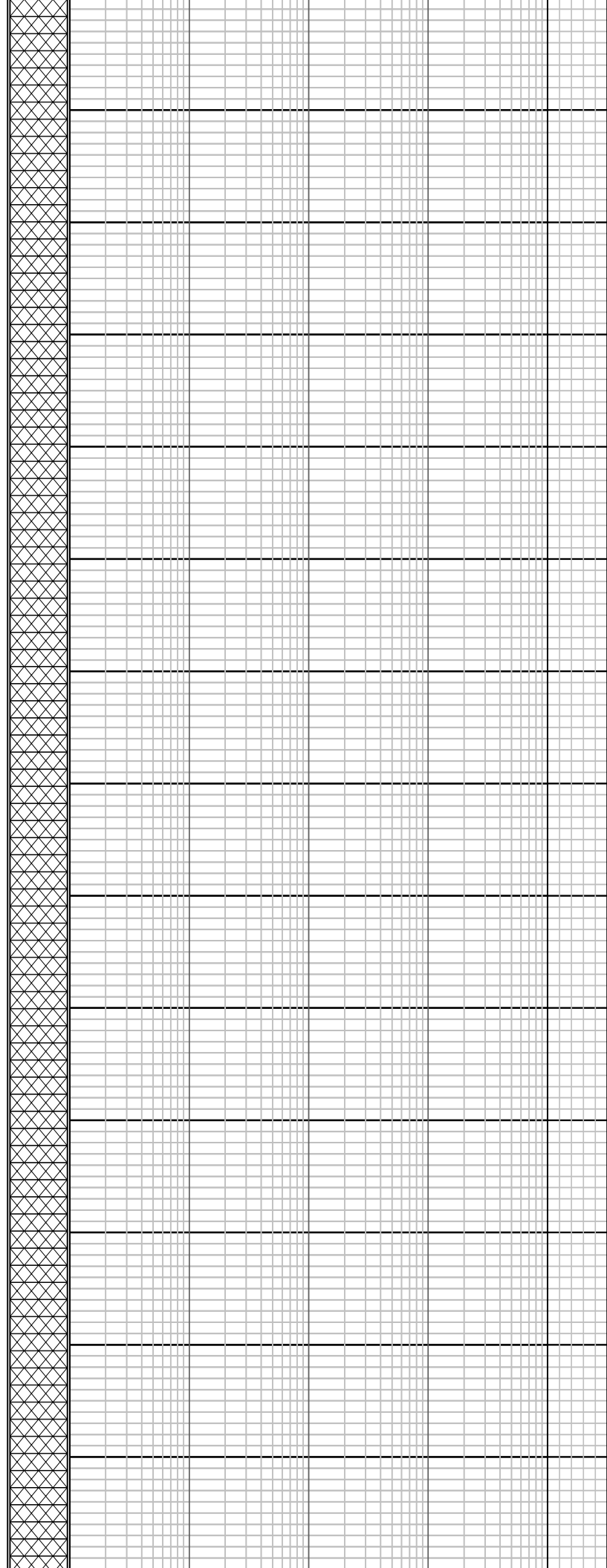
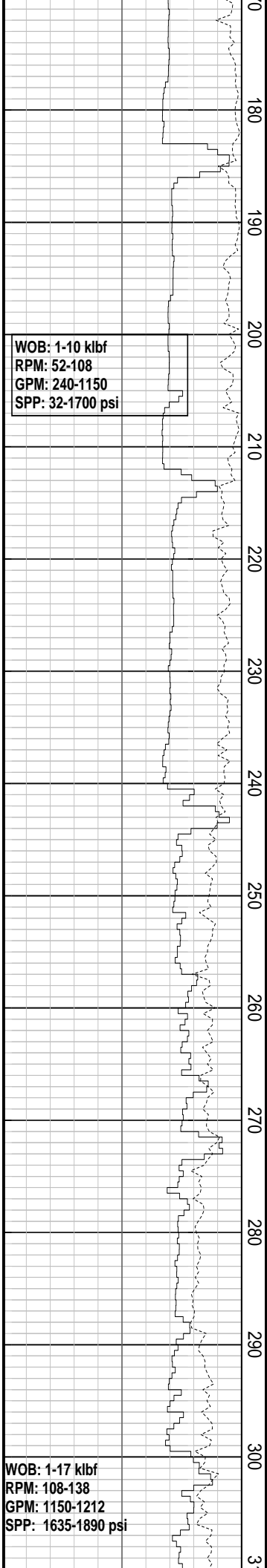


Well : Longtom-4

Interval : 85,00 - 2228,80 meters

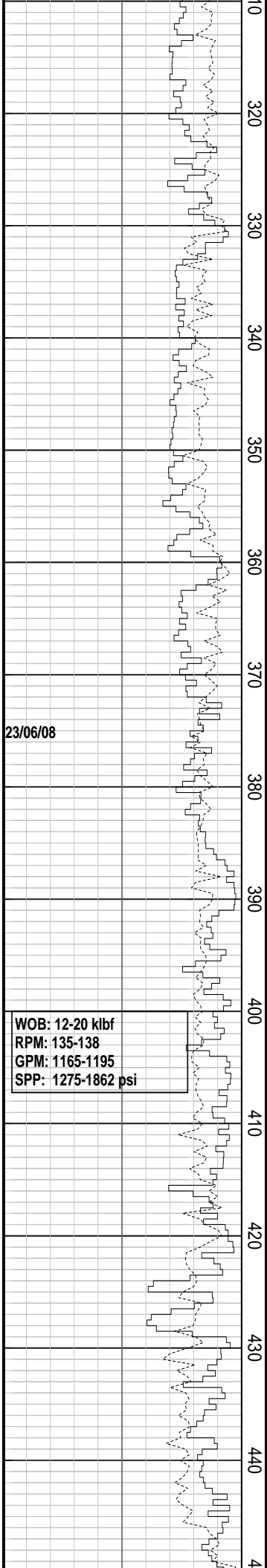
Created : 04/Jul/2008 5:37:46 AM

| FORMATION EVALUATION LOG | | | | | Analysis | LITHOLOGY DESCRIPTIONS |
|--------------------------|--|--|--|--------------|----------|------------------------|
| Chromatograph Data | | | | | | |
| Methane ppm | | | | DIRECT FLUOR | | |
| 10 100 1000 10000 | | | | | | |
| Ethane ppm | | | | | | |
| 10 100 1000 10000 | | | | | | |
| Propane ppm | | | | | | |
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| iso-Butane ppm | | | | | | |
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| n-Butane ppm | | | | | | |
| 10 100 1000 10000 | | | | | | |
| iso-Pentane ppm | | | | | | |
| 10 100 1000 10000 | | | | | | |
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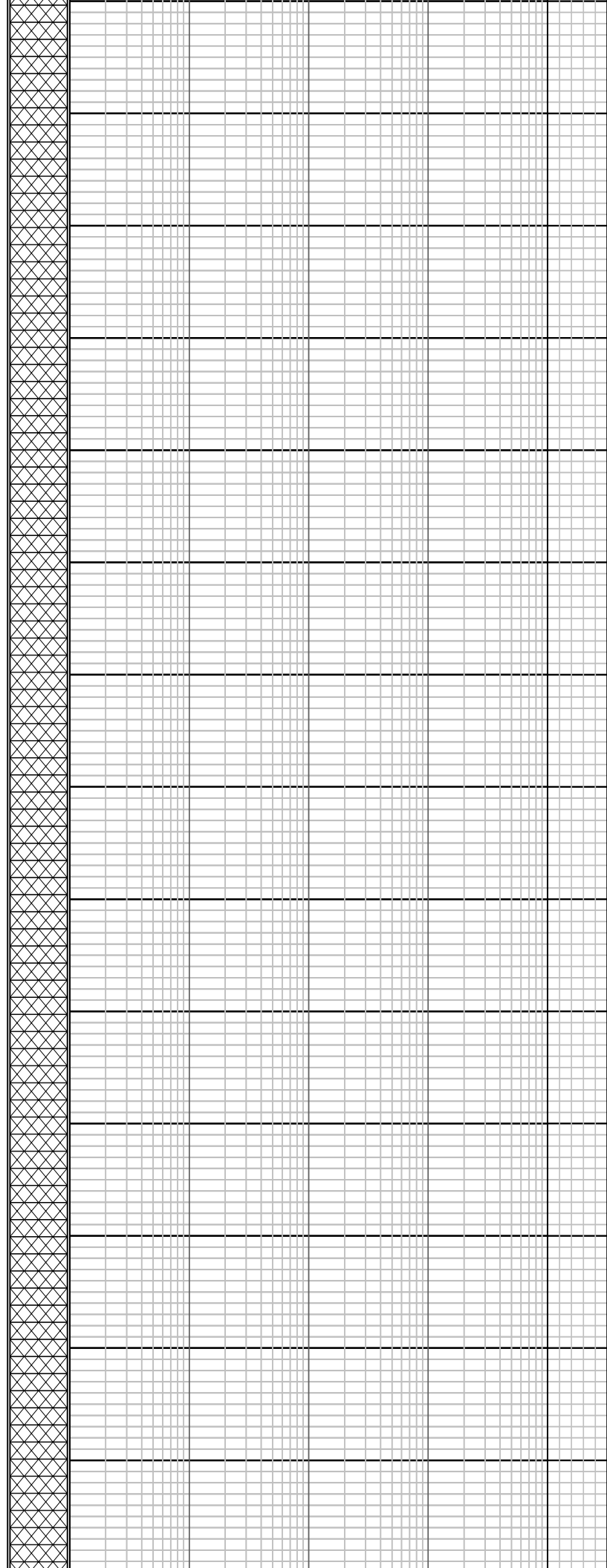
MD: 204.75 m Azi: 355.69°
TVD: 204.7 m Incl: 0.52°

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m



23/06/08

WOB: 12-20 klbf
RPM: 135-138
GPM: 1165-1195
SPP: 1275-1862 psi



MD: 321.74 m Azi: 145.66°
TVD: 321.7 m Incl: 2.44°

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m

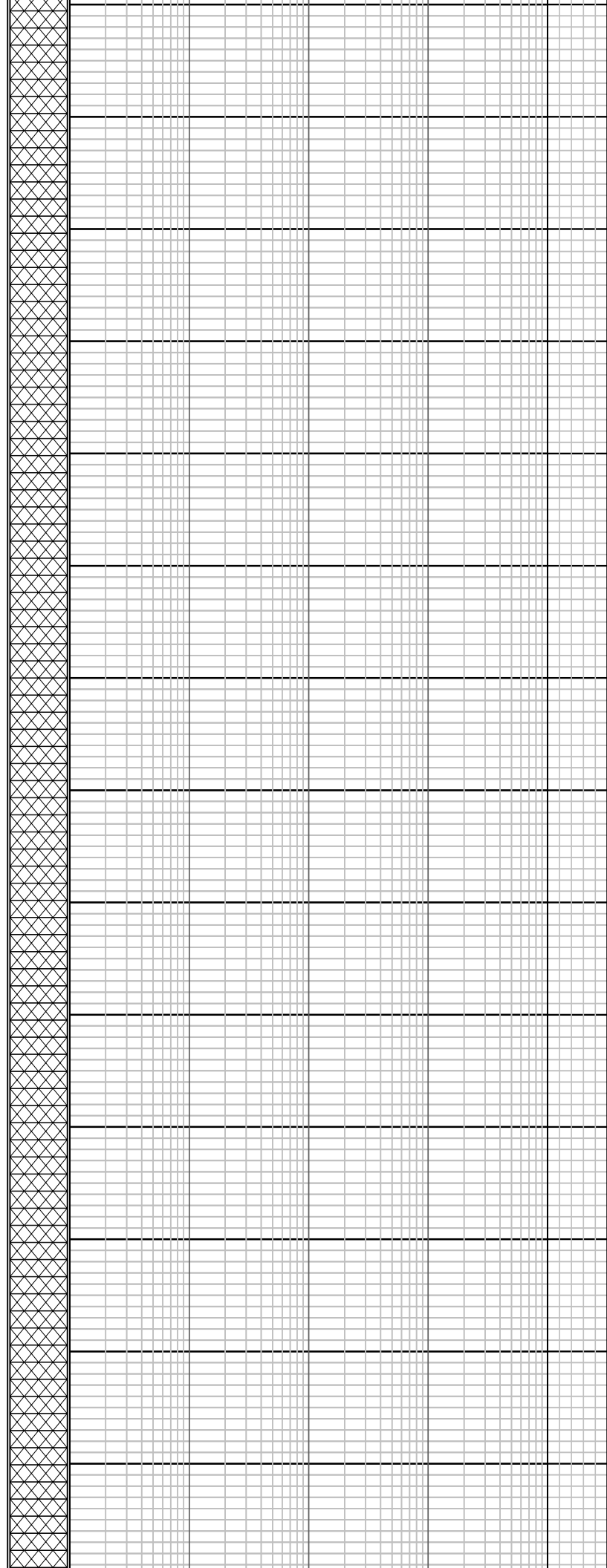
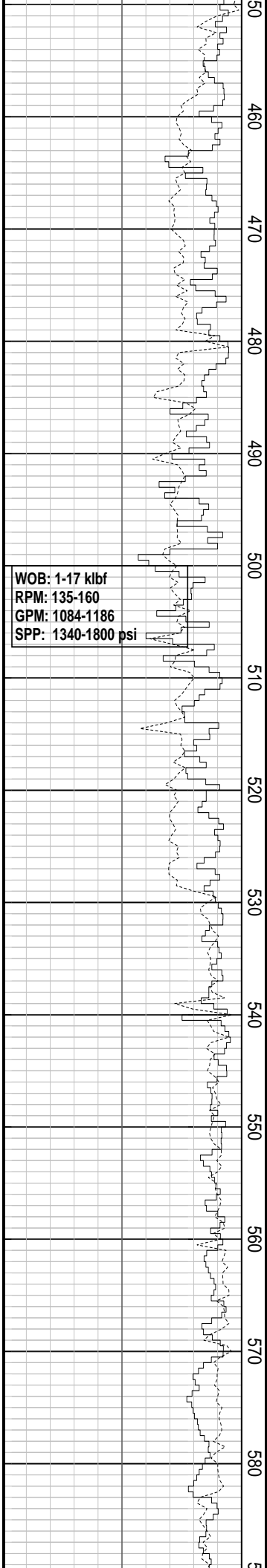
MD: 324.05 m Azi: 189.14°
TVD: 324.6 m Incl: 0.78°

MD: 382.91 m Azi: 326.57°
TVD: 382.9 m Incl: 0.23°

MD: 412.77 m Azi: 250.06°
TVD: 412.7 m Incl: 0.34°

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m

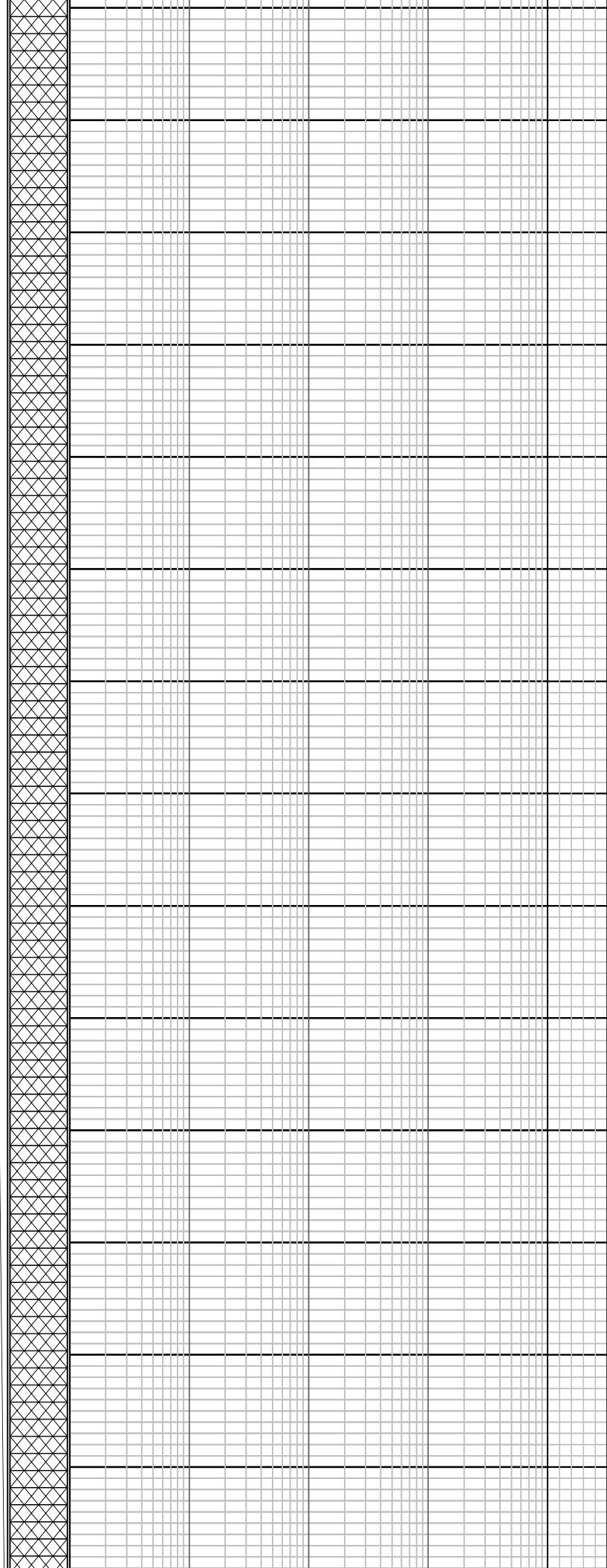
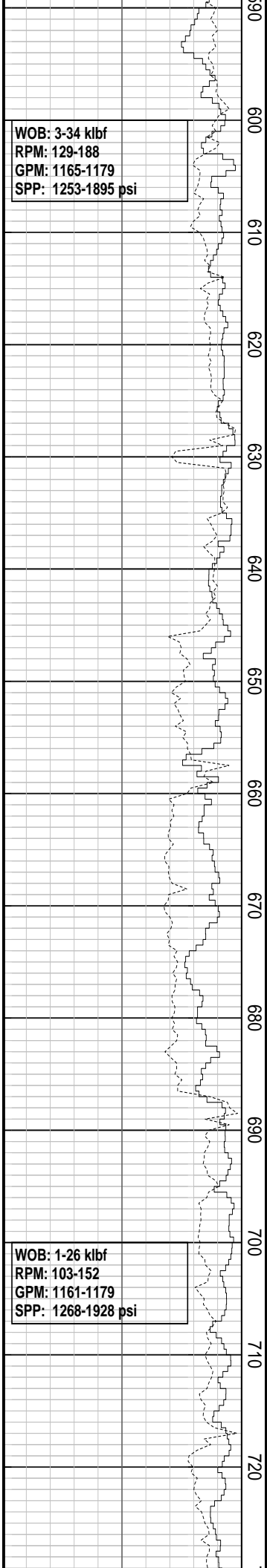
MD: 442.90 m Azi: 118.87°
TVD: 442.9 m Incl: 0.19°



Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m

MD: 531.83 m Azi: 328.15°
TVD: 531.8 m Incl: 0.85°

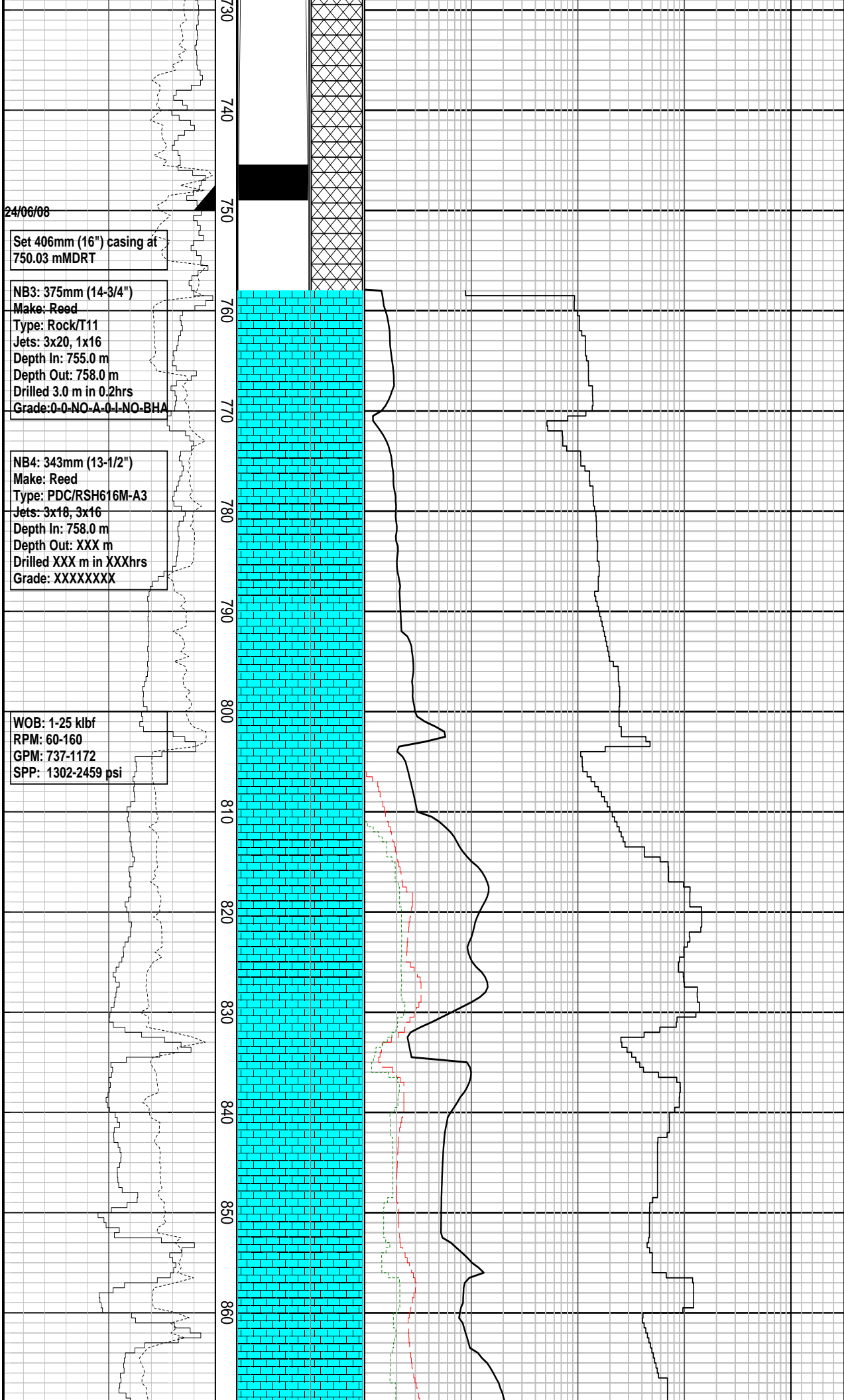
MD: 563.30 m Azi: 289.41°
TVD: 563.3 m Incl: 0.97°



Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m

MD: 651.66 m Azi: 355.43°
TVD: 651.6 m Incl: 0.44°

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m



MD: 741.14 m Azi: 334.49°
TVD: 741.1 m Incl: 0.59°

MD: 750.39 m Azi: 327.45°
TVD: 750.4 m Incl: 0.71°

Drill 22" hole section to
755.0m

Drill with SBM from 758m to Well
TD

MW: 12.00 ppg FV: 70
PV: 31 YP: 14
Gels: 8/12/14
O/W:70.0/30.0

MD: 783.28 m Azi: 304.12°
TVD: 783.3 m Incl: 0.52°

CLCLT: m-dk gy, sft frm, occ hd,
amor-sbbilky, disp, tr vf lse qtz grs

MD: 812.94 m Azi: 203.29°
TVD: 812.9 m Incl: 2.32°

CLCLT: m-dk gy, sft frm, occ hd,
amor-sbbilky, disp, tr vf lse qtz grs

MD: 842.62 m Azi: 197.90°
TVD: 842.5 m Incl: 5.16°

CLCLT: m-dk gy, sft frm, occ hd,
amor-sbbilky, disp, tr vf lse qtz grs



WOB: 0-31 kbf
RPM: 97-129
GPM: 929-1044
SPP: 2063-2666 psi

WOB: 2-35 kbf
RPM: 127-130
GPM: 966-1057
SPP: 2284-2838 psi

MD: 872.25 m Azi: 192.11°
TVD: 872.0 m Incl: 7.16°

CLCLT: m-dk gy, sft-frm, occ hd,
amor-sbbiky, disp, tr vf lse qtz grs

MD: 901.94 m Azi: 183.91°
TVD: 901.4 m Incl: 8.22°

CLCLT: m-dk gy, sft-frm, occ hd,
amor-sbbiky, disp, tr vf lse qtz grs

MD: 931.42 m Azi: 179.91°
TVD: 930.5 m Incl: 10.19°

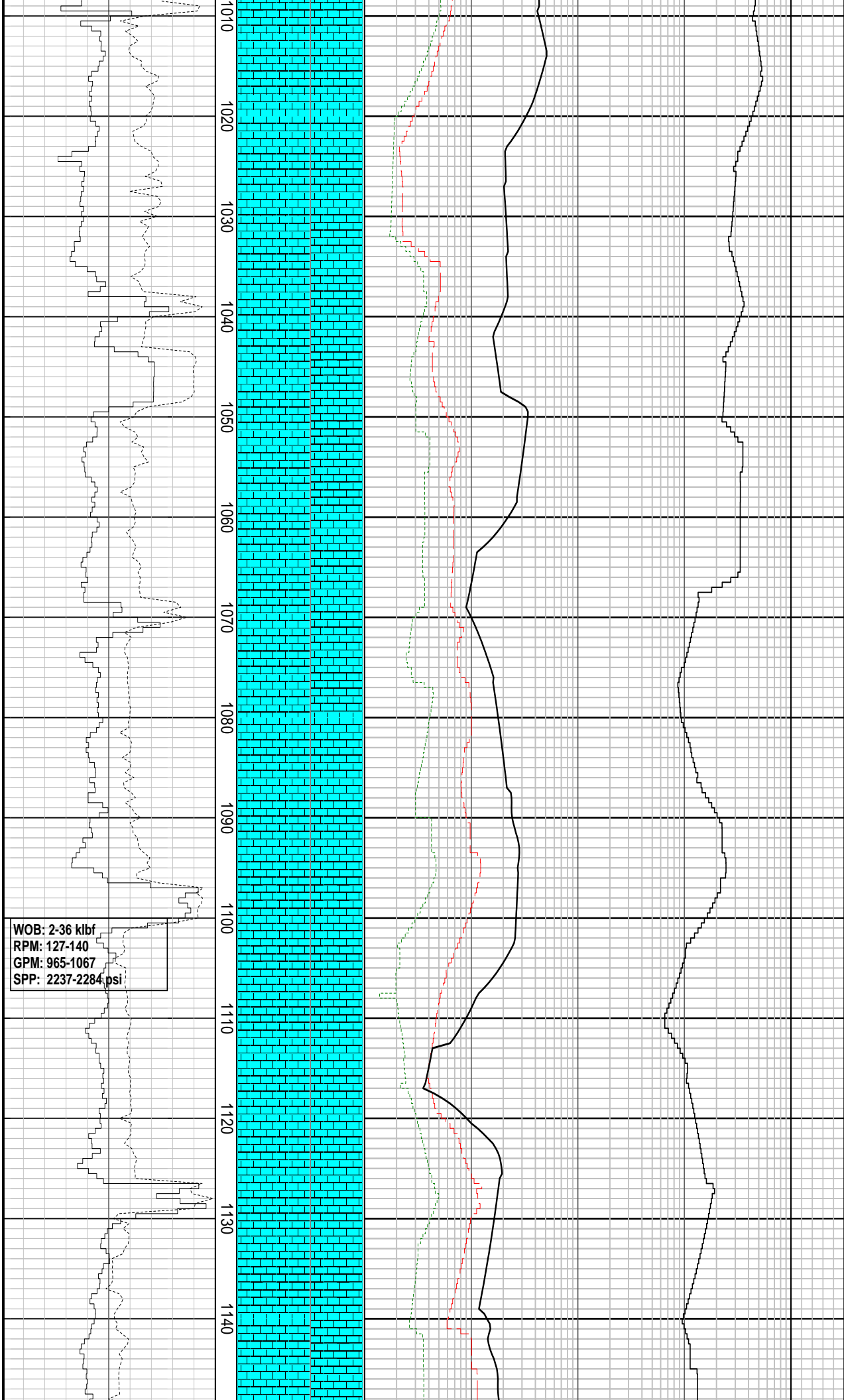
CLCLT: lt-m gy,v sft-sft, amor-sbbiky,
disp, tr vf lse qtz grs

MD: 960.94 m Azi: 179.75°
TVD: 959.4 m Incl: 13.95°

CLCLT: lt m gy, v sft-sft, amor-sbbiky,
disp, tr vf lse qtz grs

MD: 990.68 m Azi: 178.95°
TVD: 988.0 m Incl: 17.52°

MW: 11.90 ppg FV: 85
PV: 32 YP: 24
Gels: 11/12/12
O/W: 65.0/35.0



CLCLT: It m gy, v sft-sft, amor-sbbiky, disp, tr vf lse qtz grs

MD: 1020.40 m Azi: 177.48°
TVD: 1016.0 m Incl: 20.88°

CLCLT: It m gy, v sft-sft, amor-sbbiky, disp, tr vf lse qtz grs

MD: 1050.8 m Azi: 176.64°
TVD: 1043.4 m Incl: 24.28°

CLCLT: It m gy, v sft-sft, amor-sbbiky, disp, tr vf lse qtz grs

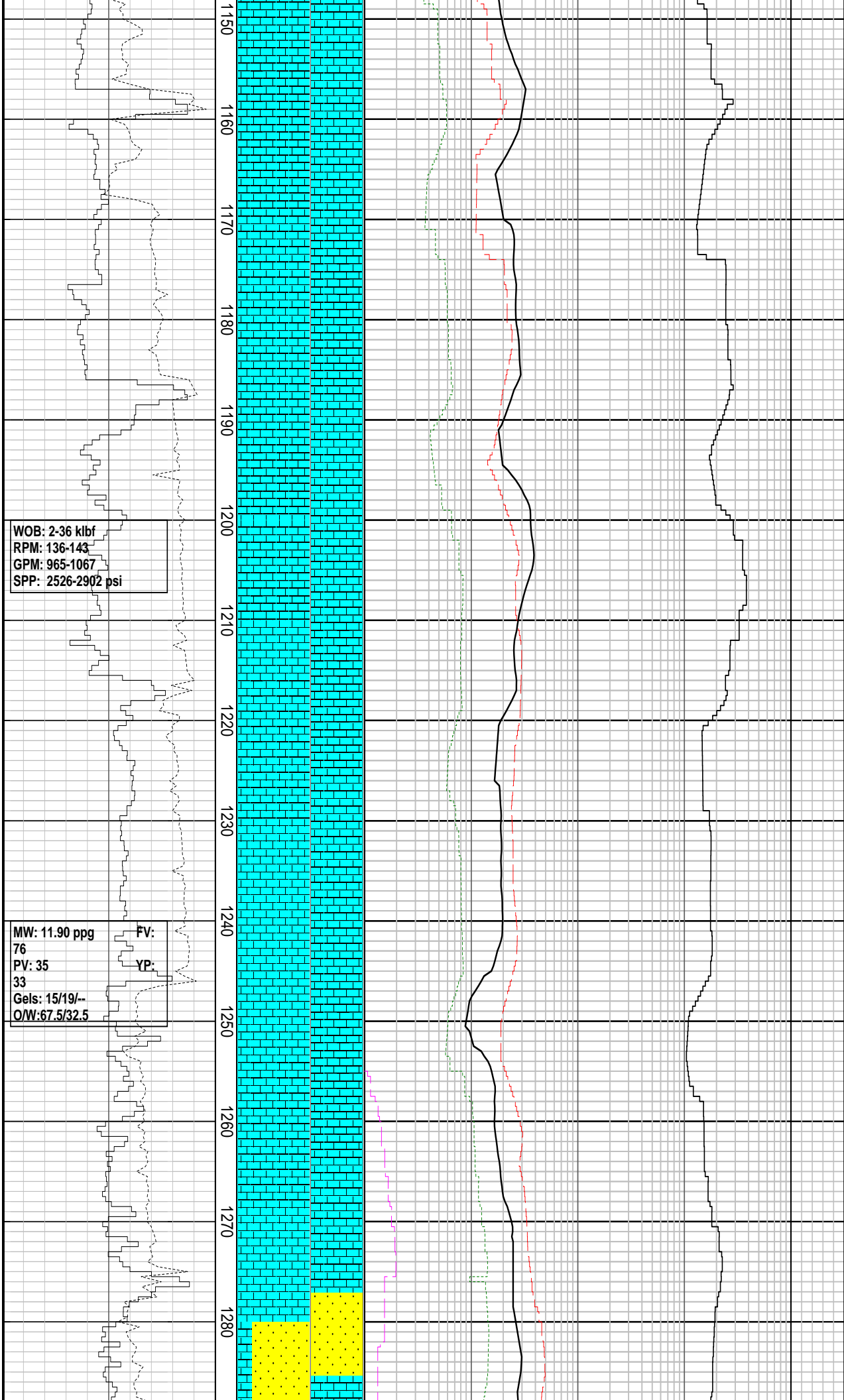
MD: 1078.64 m Azi: 178.42°
TVD: 1069.30 m Incl: 25.70°

CLCLT: It m gy, occ wh, v sft-sft, amor-sbbiky, disp, tr glauc, tr carb spks, tr vf lse qtz grs

MD: 1108.28 m Azi: 180.79°
TVD: 1095.9 m Incl: 26.85°

CLCLT: It m gy, occ wh, v sft-sft, amor-sbbiky, disp, tr glauc, tr carb spks, tr vf lse qtz grs

MD: 1137.39 m Azi: 182.43°
TVD: 1121.8 m Incl: 27.64°



MD: 1166.97 m Azi: 183.83°
TVD: 1147.9 m Incl: 28.48°

CLCLT: lt m gy, occ wh, v sft-sft,
amor-sbblky, disp, tr glauc, tr carb
spks

MD: 1196.40 m Azi: 184.58°
TVD: 1173.60 m Incl: 29.46°

CLCLT: lt m gy, occ wh, v sft-sft,
amor-sbblky, disp, tr glauc, tr carb
spks, tr vf lse qtz grs

MD: 1225.95m Azi: 185.46 °
TVD: 1199.30 m Incl: 30.16°

CLCLT: lt m gy, occ wh, v sft-sft,
amor-sbblky, disp, tr glauc, tr carb
spks, tr vf lse qtz grs

MD: 1285.37m Azi: 186.70°
TVD: 1250.80 m Incl: 30.03°



WOB: 7-37 klbf
RPM: 123-155
GPM: 990-1053
SPP: 1890-2890 psi

WOB: 2-38 klbf
RPM: 121-152
GPM: 838-1126
SPP: 1981-3524 psi

SST: lse, wh-v lt gy,clr-trnsl grs, occ opq, v f-m, dom f, mod srt, sbang-rndd, qtz w/ mnr fspr & lit, rr agg cmt w/ hd blk-hem min, hd, mnr v crs qtz grs,sbrndd-rndd, tr

MD: 1315.16m Azi: 187.70°
TVD: 1276.4 m Incl: 31.09°

SLTST: dk brn gy, frm-mod hd, argl, sliiy carb, tr pyr

MD: 1344.99m Azi: 187.53°
TVD: 1302.70 m Incl: 31.21°

COAL: blk, mod dull, hd, blk

SLTST: dk brn gy, frm-mod hd, argl, sliiy carb

MD: 1374.68m Azi: 184.92°
TVD: 1327.4 m Incl: 30.42°

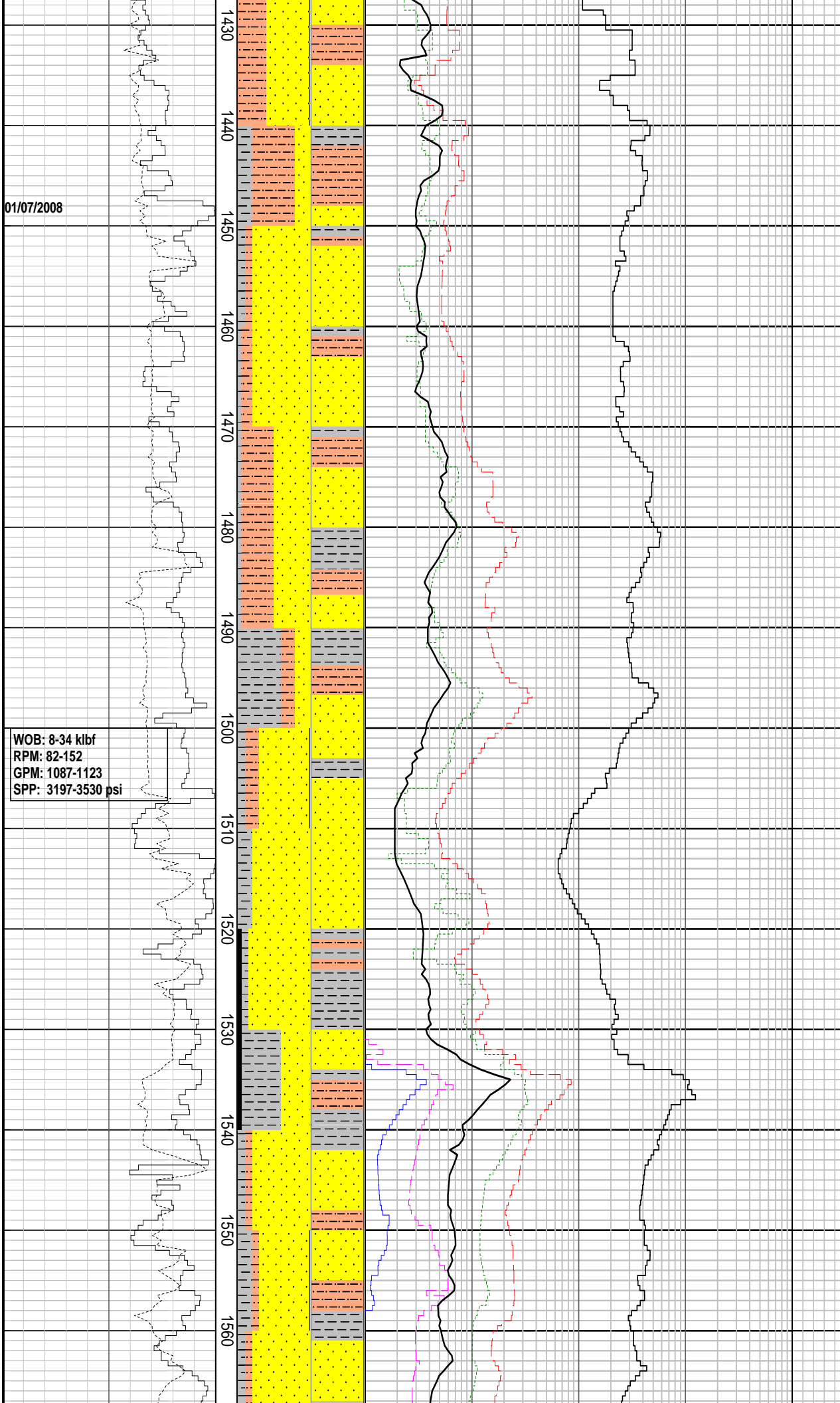
SST: lse, wh-v lt gy, clr-trnsl grs, occ opq, v f-m, dom f, mod srt, sbang-rndd, qtz w/ mnr fspr & lit, mnr v crs qtz grs, fr inf por, no shw

COAL: blk, frm, grd to carb Slstst

MD: 1404.59m Azi: 183.00°
TVD: 1353.3 m Incl: 30.04°

SST: lse, wh-v lt gy, clr-trnsl grs, occ opq, v f-m, dom f, mod srt, sbang-rndd, qtz w/ mnr fspr & lit, mnr v crs qtz grs, fr inf por, no shw

MW: 12.00 ppg FV: 78
PV: 37 YP: 37
Gels: 15/20--
O/W:65.9/34.1



SLTST: dk brn gy, sft - frm, blkly - sbbilky, argl, slily carb, tr pyr

MD: 1433.94m Azi: 182.29°
TVD: 1378.5 m Incl: 31.67°

CLYST: wh - lt gy, v sft - sft, amor - sbbilky, disp

SST: lse qtz gr, wh, trnsp-trnsl, vf-v crs, pred f-m, hd-v hd, ang-rnnd, prly srt, fr inf por, no shw

MD: 1463.79m Azi: 181.20°
TVD: 1404.0 m Incl: 30.65°

SLTST: dk brn gy, sft-frm, blkly-sbbilky, argl, slily carb, tr pyr

CLYST: wh-lt gy, v sft-sft, amor-sbbilky, disp

SST: lse qtz gr, wh, trnsp-trnsl, vf-v crs, pred f-m, hd-v hd, ang-rnnd, prly srt, fr inf por, no shw

MD: 1493.62m Azi: 180.72°
TVD: 1429.80 m Incl: 30.04°

CLYST: wh-lt gy, v sft-sft, amor-sbbilky, disp

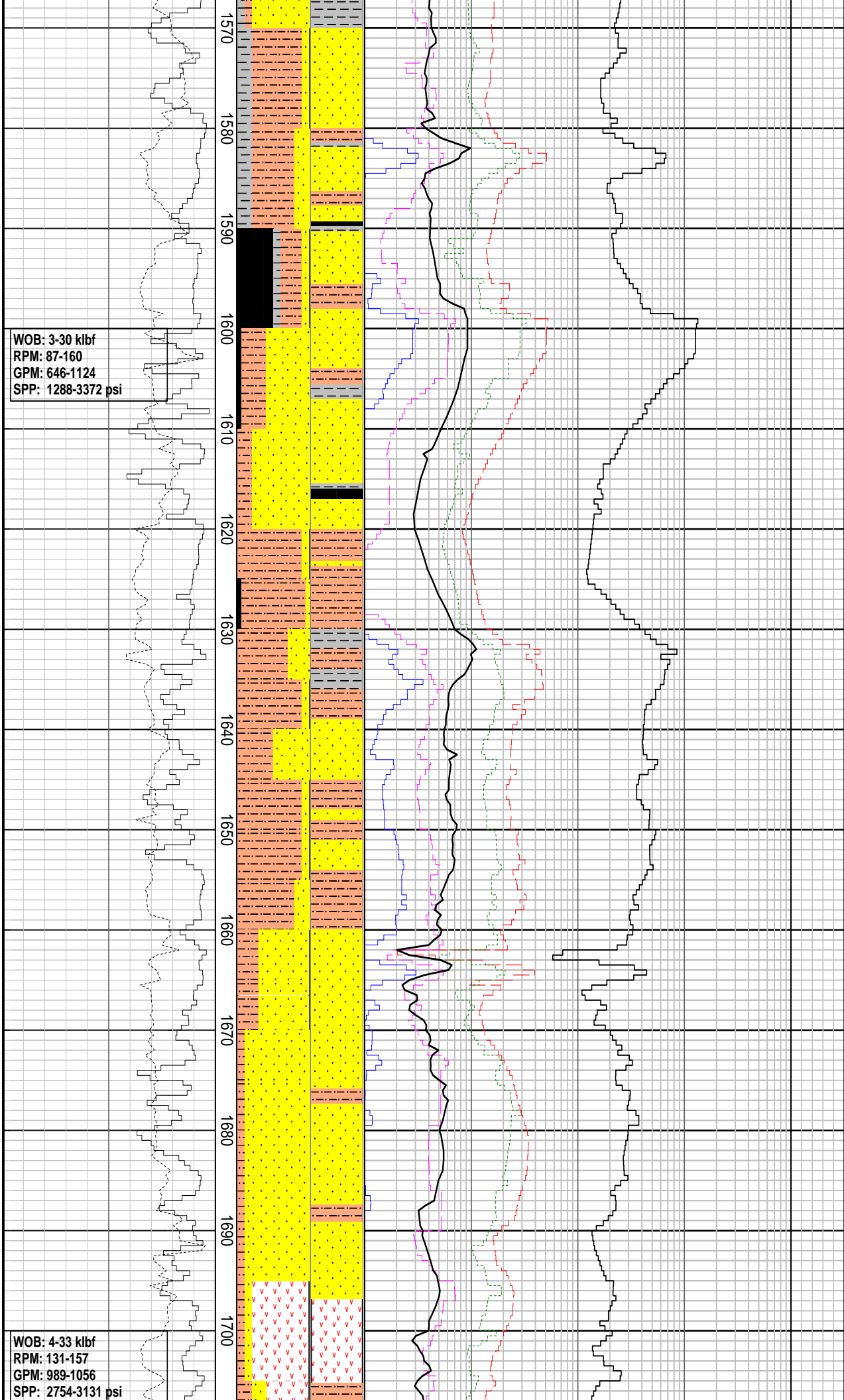
SST: lse qtz grs, wh-v lt gy, clr-trnsl, occ opq, vf-v crs, rmd-sbrnnd, ang i/p, sbsph-sph, mod srt, tr pyr nod, fr inf por, no show

MD: 1523.11m Azi: 181.58°
TVD: 1455.36 m Incl: 30.08°

SLTST: m dk gy-dk gy, sft-frm, sbbilky argl, carb i/p

MD: 1553.11m Azi: 181.81°
TVD: 1481.2 m Incl: 30.38°

SST: lse qtz grs, wh-v lt gy, clr-trnsl, occ opq, vf-v crs, rmd-sbrnnd, ang i/p, sbsph-sph, mod srt, tr pyr nod, fr inf por, no show



WOB: 3-30 klbf
RPM: 87-160
GPM: 646-1124
SPP: 1288-3372 psi

WOB: 4-33 klbf
RPM: 131-157
GPM: 989-1056
SPP: 2754-3131 psi

MD: 1583.05m Azi: 183.44°
TVD: 1507.0 m Incl: 30.31°

SLTST: m gy-brnsh gy, fri-mod frm, amor-sbblky, com argl mtrx, tr micrxl pyr, mnr carb frag & lam, grd to argl Sltst

MD: 1612.84m Azi: 184.08°
TVD: 1532.8 m Incl: 30.34°

COAL: blk-brnsh blk, frm, blk-ly-sbblky erthy-sbvit lus, brit

CLYST: m gy-m dk gy, mod frm, amor-sbblky, mnr qtz slt, tr carb frag, non calc

SLTST: m gy-brnsh gy, fri-mod frm, amor-sbblky, com argl mtrx, tr micrxl pyr, mnr carb frag & lam, grd to argl Sltst

MD: 1642.12m Azi: 183.53°
TVD: 1558.0 m Incl: 30.48°

SST: qtz, wh-v lt gy, dom lse, tr sft, m-v crs, pred crs, mod srt, ang-sbang mnr sbrndd, low-mod spsh, tr sft agg w/ argl mtrx, tr intgran pyr cmt, tr pyr grs, gd inf por, no shws

MD: 1671.81m Azi: 182.75°
TVD: 1583.60 m Incl: 30.16°

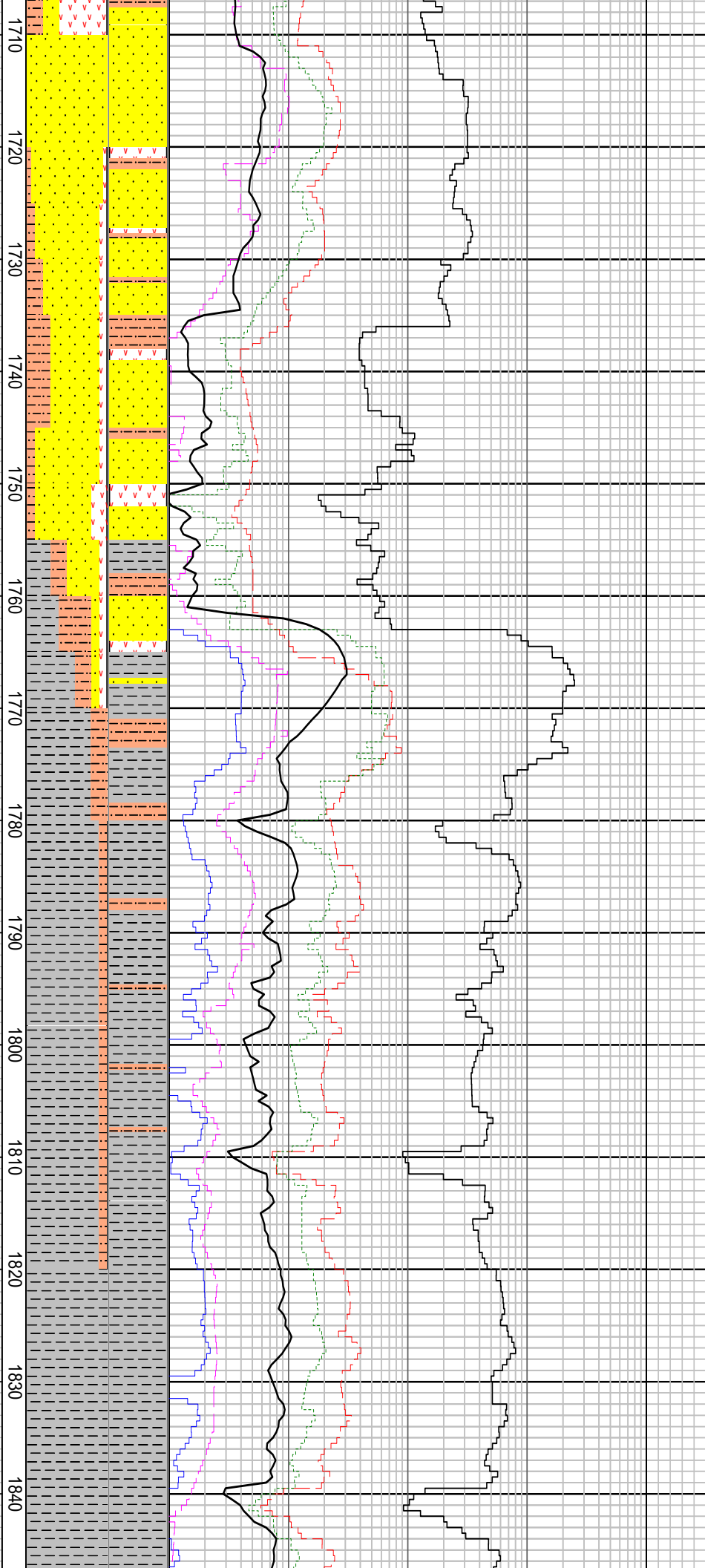
MW: 12.10 ppg FV: 78
PV: 35 YP: 36
Gels: 14/19/-
O/W: 67.5/32.5

VOLC: off wh, lt gy-lt gn, speck gy-dk gy, sft-mod frm, occ v sft, sbblky-blky

MD: 1701.20m Azi: 181.07°
TVD: 1613.60 m Incl: 30.16°

02/07/2008

WOB: 1-35 klbf
RPM: 105-172
GPM: 1052-1128
SPP: 3094-3535 psi



MD: 1701.38m Azi: 181.97°
TVD: 1609.20m Incl: 29.96°

SST: qtz, wh-v lt gy, trnsp-trnsl, dom
lse, tr sft, m-v crs, pred crs, mod srt,
ang-sbang, mnv sbrnnd, low-mod
spsh, tr pyr grs, gd inf por, no shw

MD: 1730.84m Azi: 182.20°
TVD: 1634.70m Incl: 30.49°

VOLC: off wh, lt gy-lt gn, speck gy-dk
gy, sft-mod frm, occ v sft, sbbiky-blky

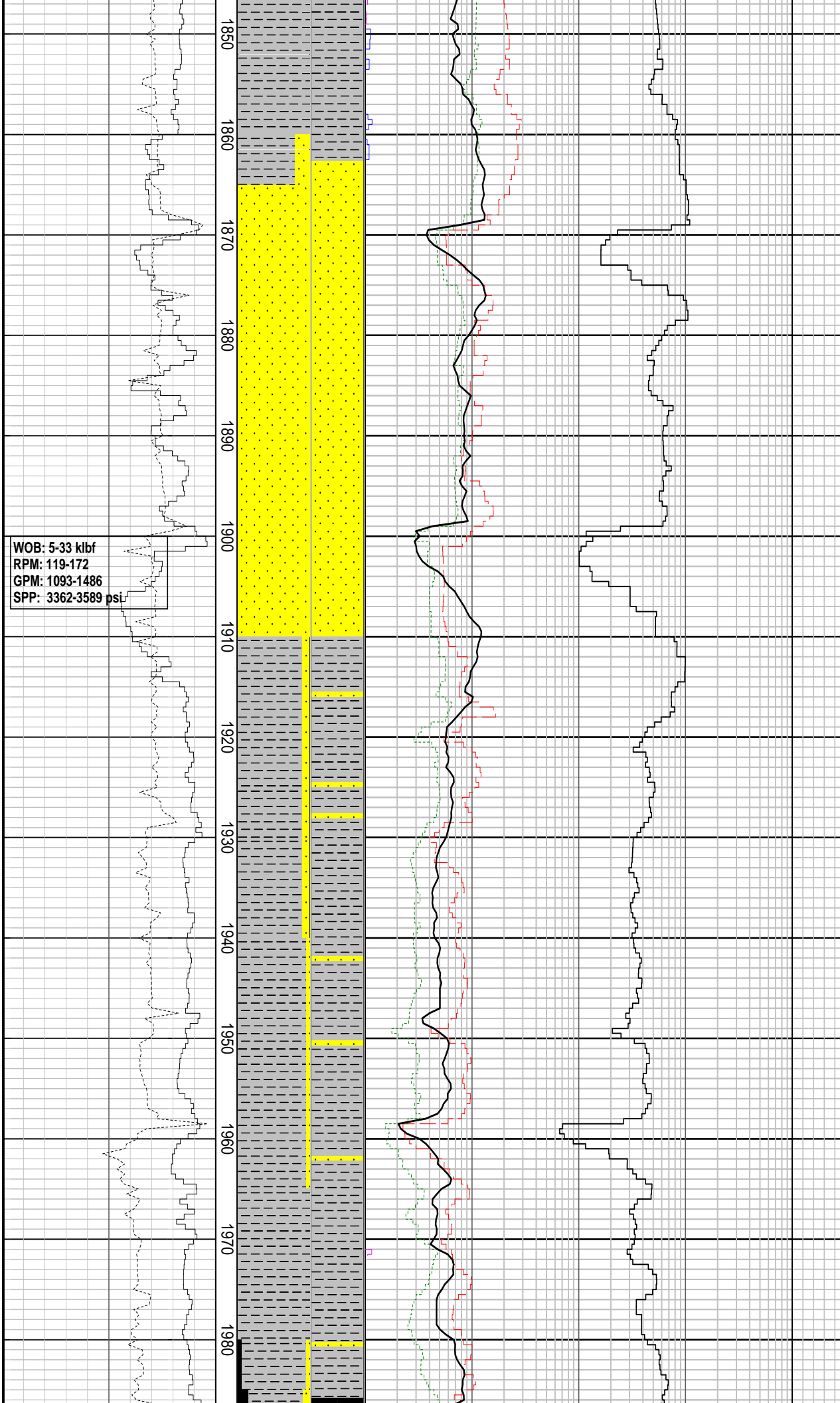
MD: 1760.64m Azi: 183.16°
TVD: 1660.40m Incl: 30.44°

MD: 1790.34m Azi: 183.49°
TVD: 1686.10m Incl: 29.76°

CLYST: m-dk gy, dk brnsh gy, mod
frm-frm, blky, occ lams, tr pyr, grd to
Sltst

MD: 1820.04m Azi: 183.26°
TVD: 1711.90m Incl: 28.44°

CLYST: m-dk gy, dk brnsh gy, occ lt
gy, mod frm-frm, occ sft, blky, occ
lams, tr pyr, grd to Sltst



WOB: 5-33 kbf
RPM: 119-172
GPM: 1093-1486
SPP: 3362-3589 psi

MD: 1849.86m Azi: 182.80°
TVD: 1738.10m Incl: 28.05°

SST: lse qtz grs, wh-v lt gy,
trns-l-trnsp, hd, vf-m, mod srt,
sbang-rndd, fr inf por, no shw

MD: 1879.39m Azi: 182.54°
TVD: 1764.10m Incl: 28.44°

SST: lse qtz grs, wh-v lt gy,
trns-l-trnsp, hd, vf-m, mod srt,
sbang-rndd, fr inf por, no shw

MD: 1909.08m Azi: 181.91°
TVD: 1790.20m Incl: 29.18°

CLYST: m-dk gy, dk brnsh gy, occ lt
gy, mod frm-frm, occ sft, blk, occ
lams, tr pyr, grd to SLTST

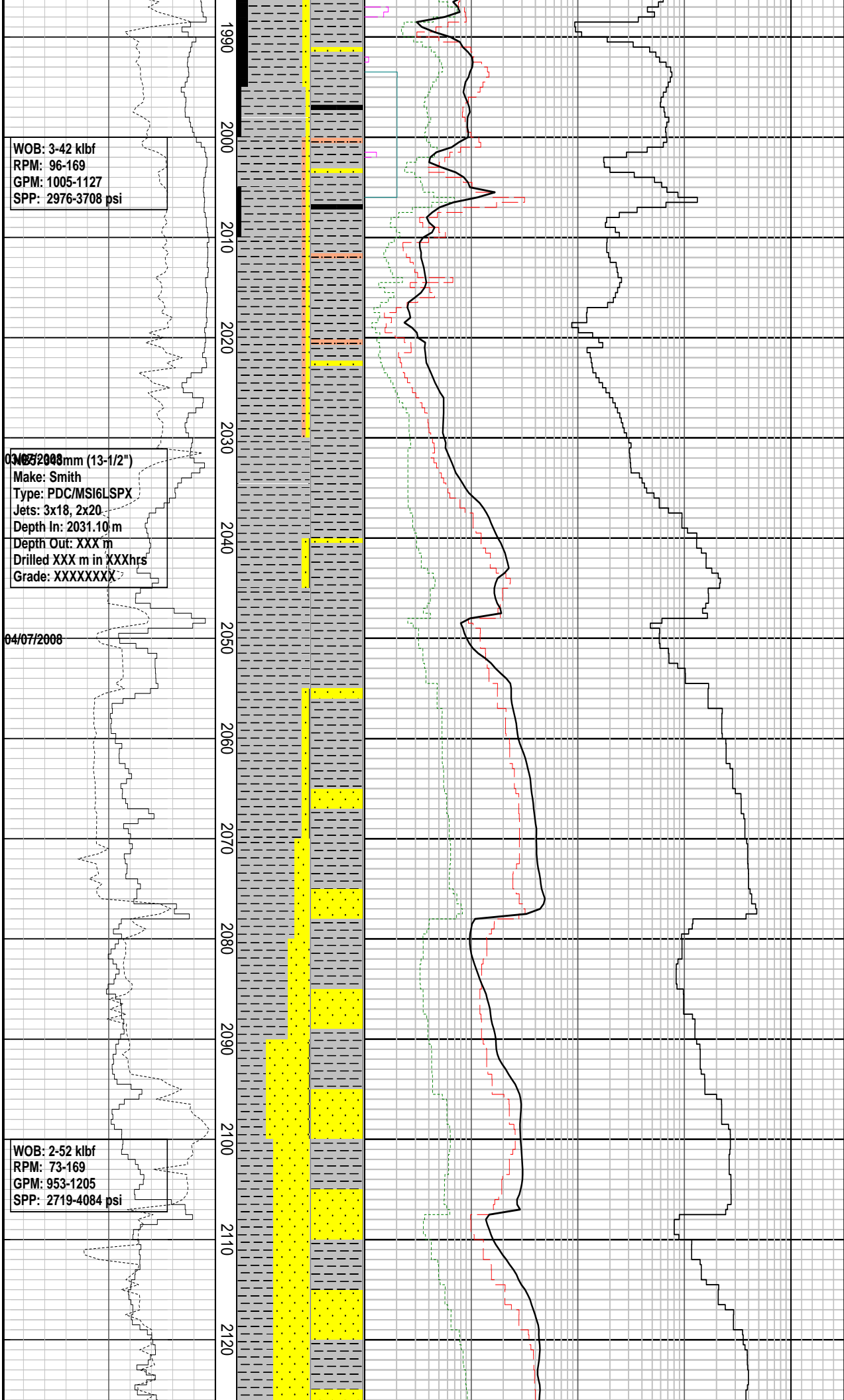
MD: 1938.97m Azi: 182.37°
TVD: 1816.2m Incl: 29.25°

CLYST: m gy-m lt gy, sft-frm i/p, blk,
tr carb spks, tr pyr nod, grd to Slt
Clyst

SST: lse qtz grs, wh-v lt gy,
trnsp-trnsl, occ opq, hd-v hd, vf-f, crs
i/p, sbang-rndd, sbsph i/p, mod srt, fr
inf por, no shw

MD: 1968.51m Azi: 181.63°
TVD: 1842.2m Incl: 27.81°

COAL: blk, frm, blk-sbblk,
erthy-sbvit lus, brit



SST: lt gy-m lt gy, lse, w/ com fri-frm
agg, vf-f grs, sbang-sbrndd, mnr rndd
mod-high sph, v wl srt, v lt gy-lt brnsh
gy, argl mtrx, tr blk & mod red lith grs,
coaly frag, pr vis por, no shw

MD: 1998.05m Azi: 181.66°
TVD: 1868.4m Incl: 27.26°

CLYST: m gy-m lt gy, sft-frm i/p, blkly,
tr carb spks, tr pyr nod, grd to Sity
Clyst

MD: 2028.03m Azi: 181.70°
TVD: 1895.1m Incl: 26.98°

CLYST: lt-m gy, bnsh gy, dk gnsh gy,
v sft-mod frm,sbblky-blky, tr carb
spks, occ lams, tr pyr, grd to Sity
Clyst

MD: 2057.68m Azi: 184.81°
TVD: 1921.2m Incl: 29.01°

CLYST: lt-m gy, bnsh gy, dk gnsh gy,
v sft-mod frm,sbblky-blky, tr carb
spks, occ lams, tr pyr, grd to Sity
Clyst

MD: 2087.27m Azi: 188.03°
TVD: 1947.1m Incl: 29.58°

SST: lse qtz gns, trnsl-trnsp, wh-off
wh, hd-v hd, vf-f, occ m, sb ang-rnd,
mod srt, arg mtr, fr inf por, no shw

MD: 2116.78m Azi: 188.02°
TVD: 1972.7m Incl: 29.55°



SST: lse qtz gns, trnsl-trnsp, wh-off wh, hd-v hd, vf-f, occ m-crs, sb ang-rnd, mod-wl srt, arg mtx, fr inf por, no shw

MD: 2146.82m Azi: 187.12°
TVD: 1998.7m Incl: 30.97°

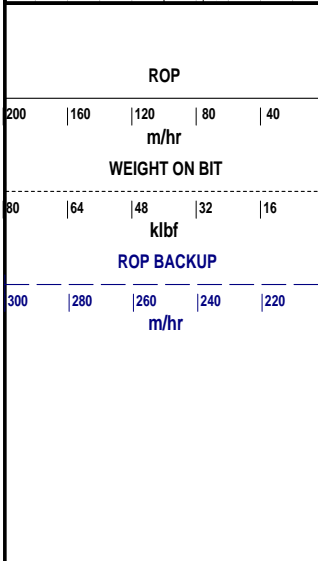
CLYST: dk gy, occ lt-m gy, occ brnsh gy, frm, occ sft-mod frm, sbblky-blky, occ lams, grd to Sltst

MD: 2176.36m Azi: 185.57°
TVD: 2023.9m Incl: 31.76°

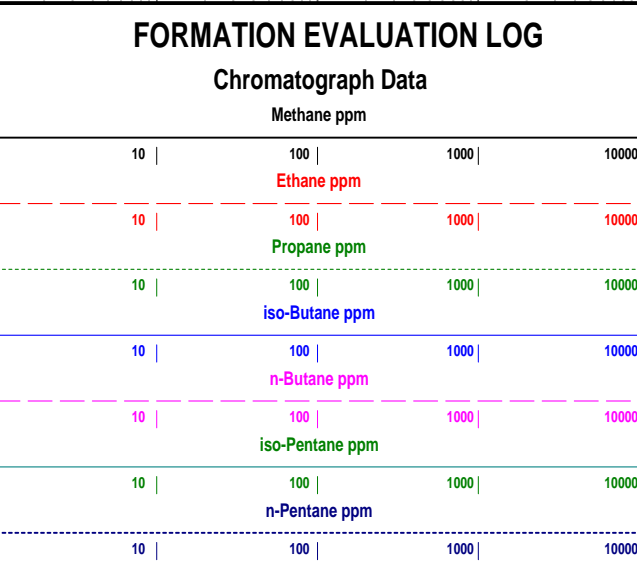
SST: lse qtz gns, trnsl-trnsp, wh-off wh, hd-v hd, vf-f, occ m-crs, sb ang-rnd, mod-wl srt, arg mtx, fr inf por, no shw

MD: 2206.21m Azi: 183.82°
TVD: 2049.3m Incl: 31.48°

WOB: 3-49 klbf
RPM: 144-153
GPM: 1093-1146
SPP: 3846-4102 psf



Cuttings
MD meters 1:500
INTERPRETED LITHOLOGY



Analysis
DIRECT FLUOR

LITHOLOGY DESCRIPTIONS

| | | | | | | | |
|--|--|--|--|--------------------|--|--|--|
| | | | | Ditch Gas % | | | |
| | | | | 0.1 1 10 100 | | | |