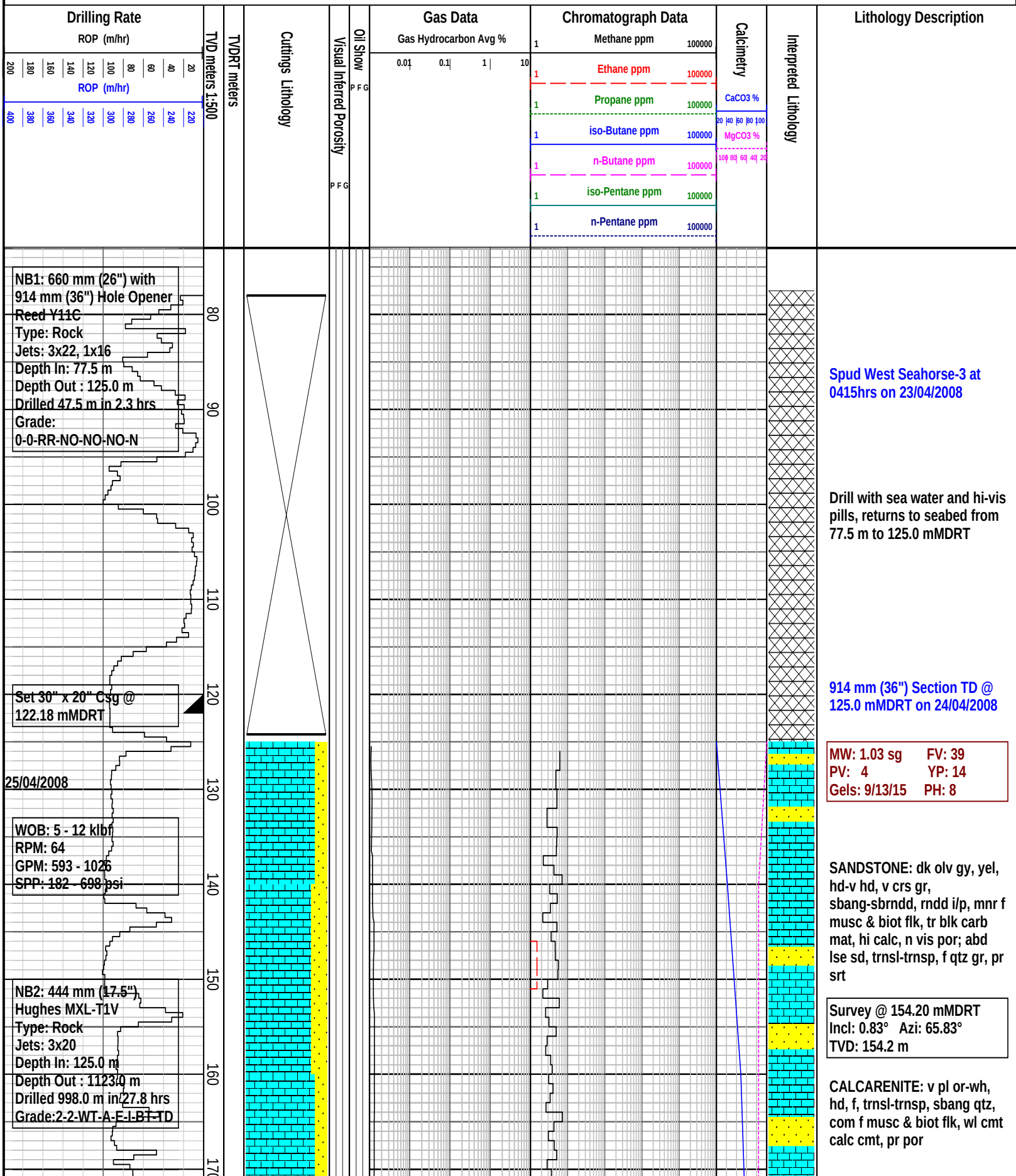
BAKER HUGHES INTEQ

Company : 3D Oil Ltd
Well : West Seahorse-3
Interval : 73.00 - 1693.58 meters
Created : 05/May/2008 6:28:58 AM

3D OIL

FORMATION EVALUATION LOG



Spud West Seahorse-3 at 0415hrs on 23/04/2008

Drill with sea water and hi-vis pills, returns to seabed from 77.5 m to 125.0 mMDRT

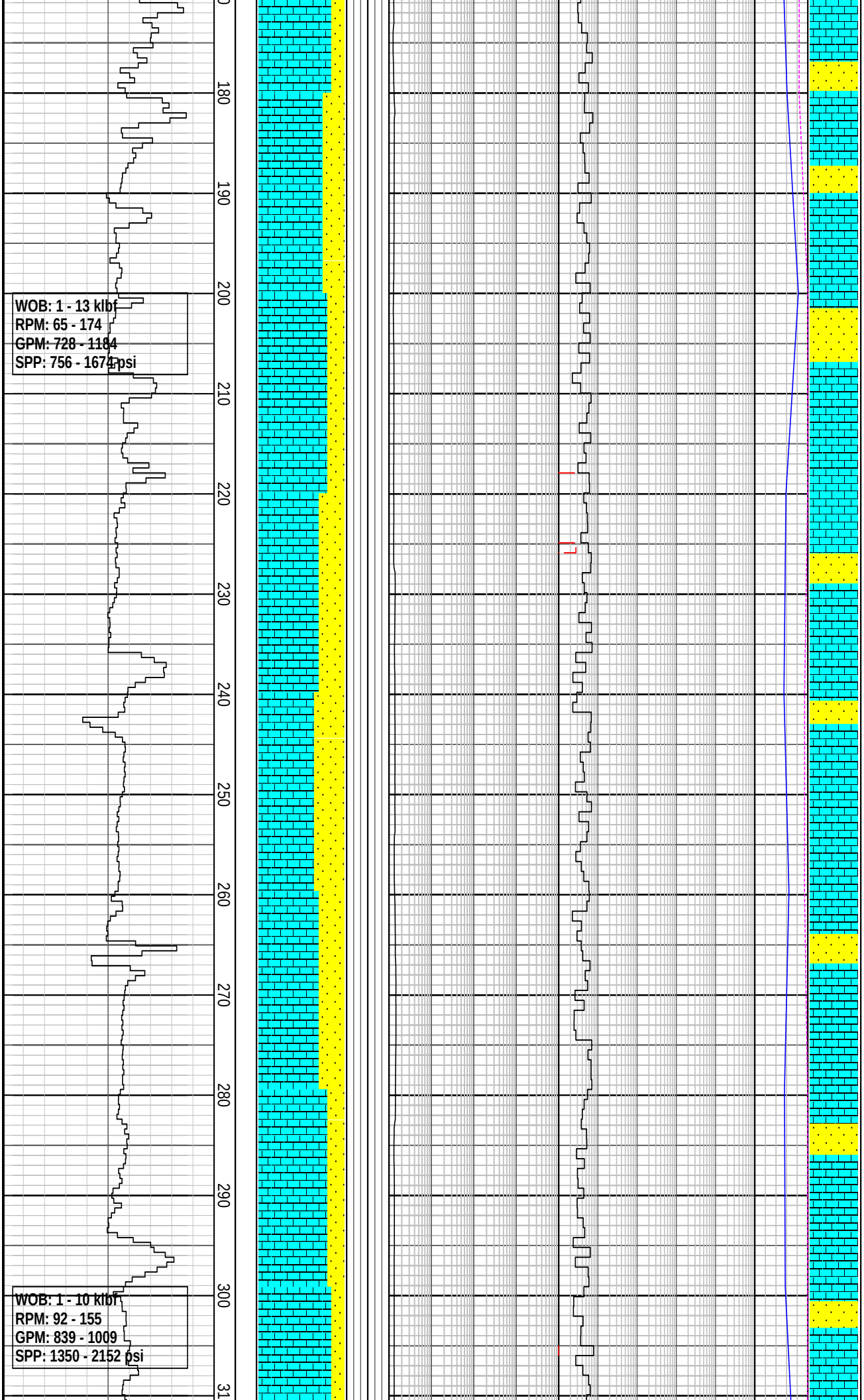
914 mm (36") Section TD @ 125.0 mMDRT on 24/04/2008

MW: 1.03 sg FV: 39
PV: 4 YP: 14
Gels: 9/13/15 PH: 8

SANDSTONE: dk olv gy, yel, hd-v hd, v crs gr, sbang-sbrndd, rndd i/p, mnr f musc & biot flk, tr blk carb mat, hi calc, n vis por; abd lse sd, trnsl-trnsp, f qtz gr, pr srt

Survey @ 154.20 mMDRT
Incl: 0.83° Azi: 65.83°
TVD: 154.2 m

CALCARENITE: v pl or-wh, hd, f, trnsl-trnsp, sbang qtz, com f musc & biot flk, wl cmt calc cmt, pr por



SANDSTONE: dk olv gy, yel, hd- v hd, v crs gr, sbang-sbrndd, rndd i/p, mnr f musc & biot flks, tr blk carb mat, hi calc, n vis por; abd lse sd, trnsl-trnsp, f qtz gr, pr srt

Survey @ 182.420 mMDRT
Incl: 2.72° Azi: 71.56°
TVD: 182.4 m

CALCARENITE: v pl or-wh, trnsl-trnsp, hd, tr f qtz gr, sbang qtz, calc frag, mnr shl frag, mnr foss, wl calc cmt, n vis por

Survey @ 210.69 mMDRT
Incl: 4.37° Azi: 68.83°
TVD: 210.6 m

SANDSTONE: dk olv gy, yel, hd-v hd, v crs calc gr, sbang-sbrndd, rndd i/p, mnr f musc & biot flks, tr blk carb mat, hi calc, n vis por; abd lse sd, trnsl-trnsp, f qtz, pr srt

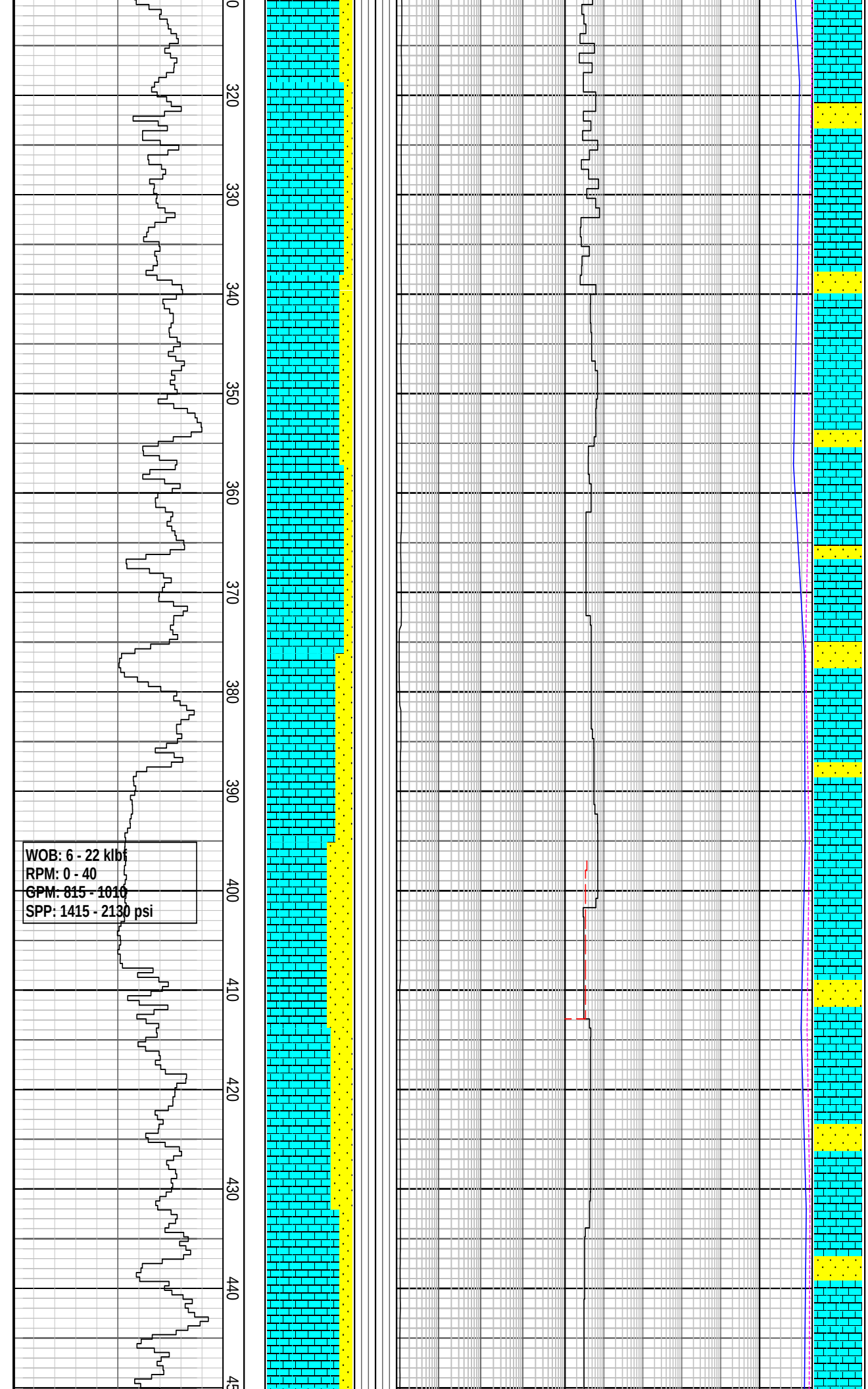
Survey @ 240.38 mMDRT
Incl: 6.29° Azi: 66.14°
TVD: 240.2 m

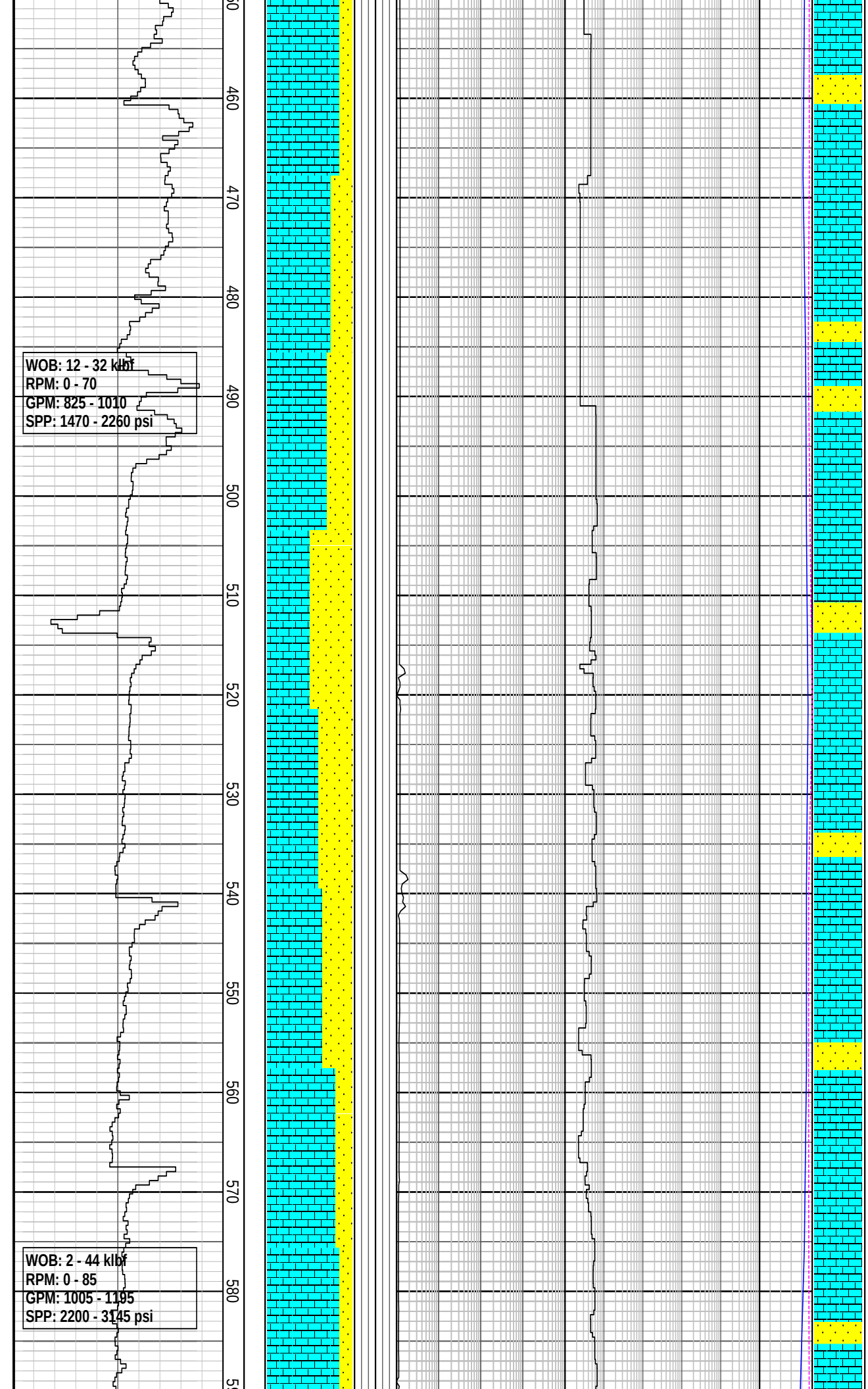
CALCARENITE: v pl or-wh, trnsl-trnsp, hd, tr f qtz gr, sbang qtz gr, mnr shl frag, rr foss, rr calc frag, wl calc cmt, v pr por

Survey @ 269.55 mMDRT
Incl:8.46° Azi: 64.16°
TVD: 269.1 m

CALCARENITE: v pl or-wh, trnsl, f gr, m-crs gr, sbang qtz gr i/p, hd, mnr shl frag, rr foss, rr calc frag, calc cmt, n vis por

Survey @ 299.18 mMDRT
Incl: 10.92° Azi: 63.65°
TVD: 298.3 m


320
330
340
350
360
370
380
390
400
410
420
430
440
WOB: 6 - 22 klbf
RPM: 0 - 40
GPM: 815 - 1010
SPP: 1415 - 2130 psi
SANDSTONE: lt olv gy, yel, trnsl-trnsp, hd-v hd, sbang-sbrndd, rndd i/p, pr srt, mnr calc gr, mnr f musc, biot flk, tr blk carb mat, hi calc, abd lse sd, trnsp, f-m crs qtz gr
Survey @ 328.48 mMDRT
Incl: 13.50° Azi: 62.30°
TVD: 326.90 m
CALCARENITE: v pl org-wh, trnsl, hd, f-m crs gr, tr sbang qtz gr, mnr shl frag, rr foss, rr calc frag, calc cmt, n vis por
Survey @ 358.59 mMDRT
Incl: 18.96° Azi: 63.33°
TVD: 355.80 m
SANDSTONE: lt olv gy-olv gy, yel, abd trnsl-trnsp, hd-v hd, f-m crs gr i/p, sbang-sbrndd, rndd i/p, pr srt, tr blk carb mat, v calc, pr cmt, com
lse sd, m qtz gr, mnr calc gr
CALCARENITE: v pl or-wh, med hd-hd, abd trnsl-trnsp, m-crs calc gr, f-m mnr shl frag, rr foss, tr sbang qtz gr, calc cmt, n vis por
Survey @ 388.46 mMDRT
Incl:17.84° Azi: 64.65°
TVD: 384.30 m
MW: 1.11 sg FV: 40
PV: 4 YP: 14
Gels: 9/13/15 PH: 8
Survey @ 417.21 mMDRT
Incl: 21.76° Azi: 64.94°
TVD: 411.4 m
SANDSTONE: lt olv gy, yel, trnsl-trnsp, hd-v hd, sbang-sbrndd, rndd i/p, pr srt, abd mnr calc gr, mnr f musc, biot flk, tr blk carb mat, hi calc
Survey @ 446.30 mMDRT
Incl: 26.49° Azi: 63.72°
TVD: 437.9 m
CALCARENITE: m gy-brnsh



gy, lt olv gy, org-wh, m hd-v hd, m-crs calc gr, sbang-sbrndd, f-m shl frag, rr foss, abd calc frag, n vis por; abd lse qtz, trnsl-trnsp, f-v crs qtz gr, sbang qtz, v calc

Survey @ 476.28 mMDRT
Incl: 27.59° Azi: 64.07°
TVD: 464.6 m

SANDSTONE: lt olv gy, yel, trnsl-trnsp, hd-v hd, sbang-sbrndd, rndd i/p, pr srt, abd mnr calc gr, mnr f musc, biot flk, tr blk carb mat, hi calc

Survey @ 505.67 mMDRT
Incl: 26.62° Azi: 62.93°
TVD: 490.8 m

CALCARENITE: yelsh gy-lt gy, or-wh, m hd-v hd, v f-f calc gr, v crs calc gr i/p, ang-sbrndd, f-m mnr shl frag, rr foss, mnr blk lit, wl cmt, inf calc cmt, pr por, abd lse sd, trnsl, pl yel-org, m-crs gr

Survey @ 534.94 mMDRT
Incl: 25.98° Azi: 64.99°
TVD: 517.0 m

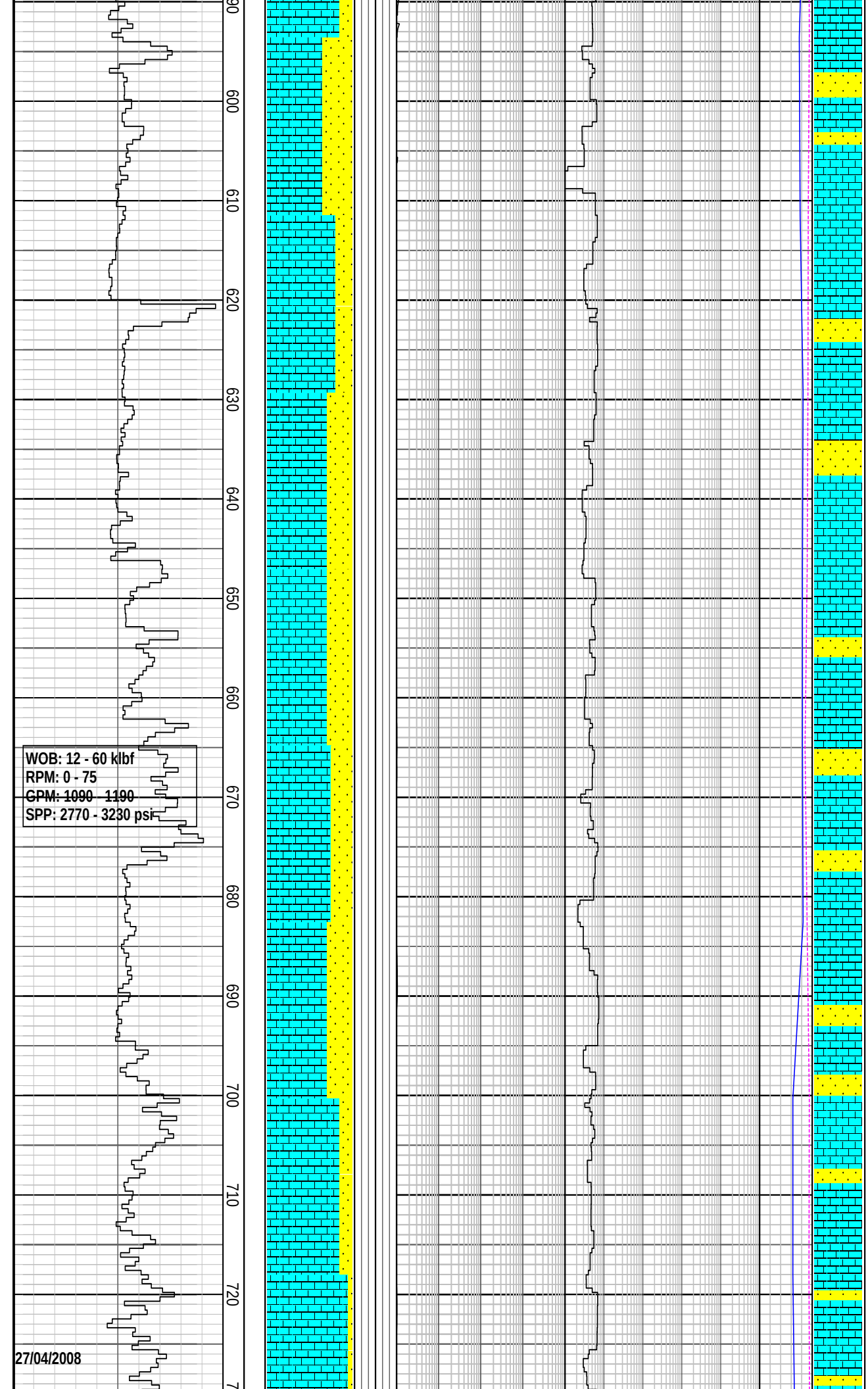
CALCARENITE: yelsh gy-lt gy, lt olv gy, m hd-v hd, ang-sbrndd, tr shl frag, rr foss, mnr blk lit, wl cmt, inf calc cmt, inf pr por; abd lse sd, or-wh, trnsl, pl yel-or, v f-f gr, mod calc

Survey @ 564.20 mMDRT
Incl: 25.09° Azi: 64.81°
TVD: 543.4 m

CALCARENITE: m gy-yelsh gy, lt olv gy, m hd-v hd, sbang-sbrndd, f-m shl frag, rr foss, calc frag, n vis por; com lse sd, or-wh, trnsl-trnsp, tr sbang qtz

MW: 1.14 sg FV: 41
PV: 8 YP: 24
Gels: 10/12/15 PH: 8

CALCARENITE: m gy-yelsh gy, lt olv gy, m hd-v hd, sbang-sbrndd, f-m shl frag, rr foss, calc frag, n vis por; lse sd i/p, or-wh, trnsl-trnsp, tr sbang qtz



Survey @ 622.88 mMDRT
Incl: 26.34° Azi: 65.72°
TVD: 596.3 m

SANDSTONE: lt olv gy, yel, trnsl-trnsp, hd-v hd, sbang-sbrndd, rndd i/p, pr srt, abd mnr calc gr, mnr f musc, biot flk, tr blk carb mat, hi calc

Survey @ 653.06 mMDRT
Incl: 26.88° Azi: 63.47°
TVD: 623.3 m

CALCARENITE: yelsh gy-lt gy, lt olv gy, org-wh, m hd-v hd, v f-f calc gr, f-m shl frag, foss, mnr blk lit, wl cmt, inf calc cmt, inf pr por; lse sd, trnsl, pl yel-or, ang-sbrndd, v crs gr i/p,

Survey @ 682.2 mMDRT
Incl: 27.67° Azi: 62.3°
TVD: 649.2 m

SANDSTONE: lt olv gy, yel, trnsl-trnsp, hd-v hd, sbang-sbrndd, rndd i/p, pr srt, abd mnr calc gr, mnr f musc, biot flk, tr blk carb mat, hi calc

Survey @ 711.65 mMDRT
Incl: 27.35° Azi: 62.78°
TVD: 675.3 m

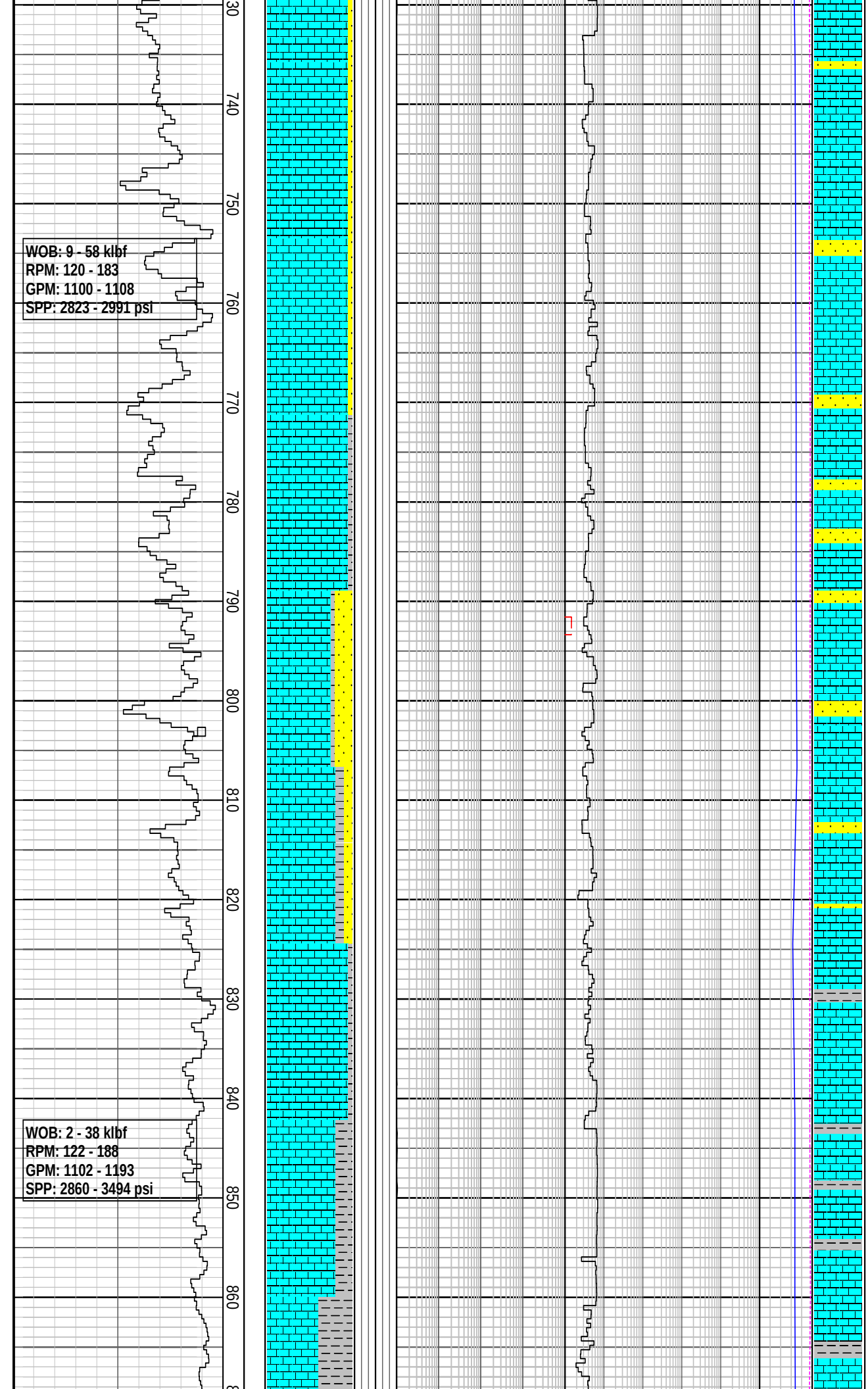
CALCARENITE: lt olv gy-olv gy, v f-f calc gr, m hd-v hd, ang-sbrndd, f-m mnr shl frag, rr foss, mnr blk lit, wl cmt, pr vis por; lse sand, pl yel-or, trnsl, v crs qtz gr i/p

Survey @ 740.89 mMDRT
Incl: 27.59° Azi: 61.96°
TVD: 701.2 m

CALCARENITE: lt olv gy-gnsh gy, trnsl, opq i/p, hd-v hd, fri i/p, m-v crs qtz gr i/p, ang-sbang, sbrndd i/p, pr srt, tr foss frag, tr glau, calc cmt

MW: 1.10 sg FV: 48
PV: 8 YP: 24
Gels: 10/12/15 PH: 8.5

Survey @ 771.14 mMDRT



Incl: 27.57° Azi: 61.42°
TVD: 728.10 m

CALCARENITE: lt olv gy-gnsh gy, dk gy i/p, trnsl, opq i/p, hd-v hd, fri i/p, v crs qtz gr i/p, ang-sbang, sbrndd i/p, pr srt, tr foss frag, tr glau, grad to CLCLT, mod calc cmt

CALCILUTITE: wh, lt olv gy, f-crs gr, calc slt, v f qtz gr, tr glau, sft

Survey @ 800.56 mMDRT
Incl: 27.44° Azi: 61.28°
TVD: 754.20 m

CALCARENITE: lt olv gy-gnsh gy, dk gy i/p, trnsl, hd-v hd, ang-sbang, sbrndd i/p, opq i/p, fri i/p, v crs gr, tr qtz gr, pr srt, tr foss frag, tr glau, grad to CLCLT, mod calc cmt

CALCILUTITE: wh, lt olv gy, v f qtz gr, f-crs gr, calc slt, tr glau, sft

Survey @ 829.48 mMDRT
Incl: 27.47° Azi: 61.73°
TVD: 779.80 m

CALCARENITE: lt olv gy-gnsh gy, dk gy i/p, trnsl, opq i/p, hd-v hd, fri i/p, v crs gr, m qtz gr i/p, ang-sbang, sbrndd i/p, pr srt, tr foss frag, tr glau, grad to CLCLT, mod calc

Survey @ 858.78 mMDRT
Incl: 27.34° Azi: 61.53°
TVD: 805.70 m

CALCARENITE: lt olv gy-gnsh gy, dk gy i/p, trnsl, opq i/p, hd-v hd, v crs calc gr, qtz gr i/p, ang-sbang, sbrndd i/p, fri i/p, pr srt, tr foss frag, tr glau, grad to CLCLT, mod cal

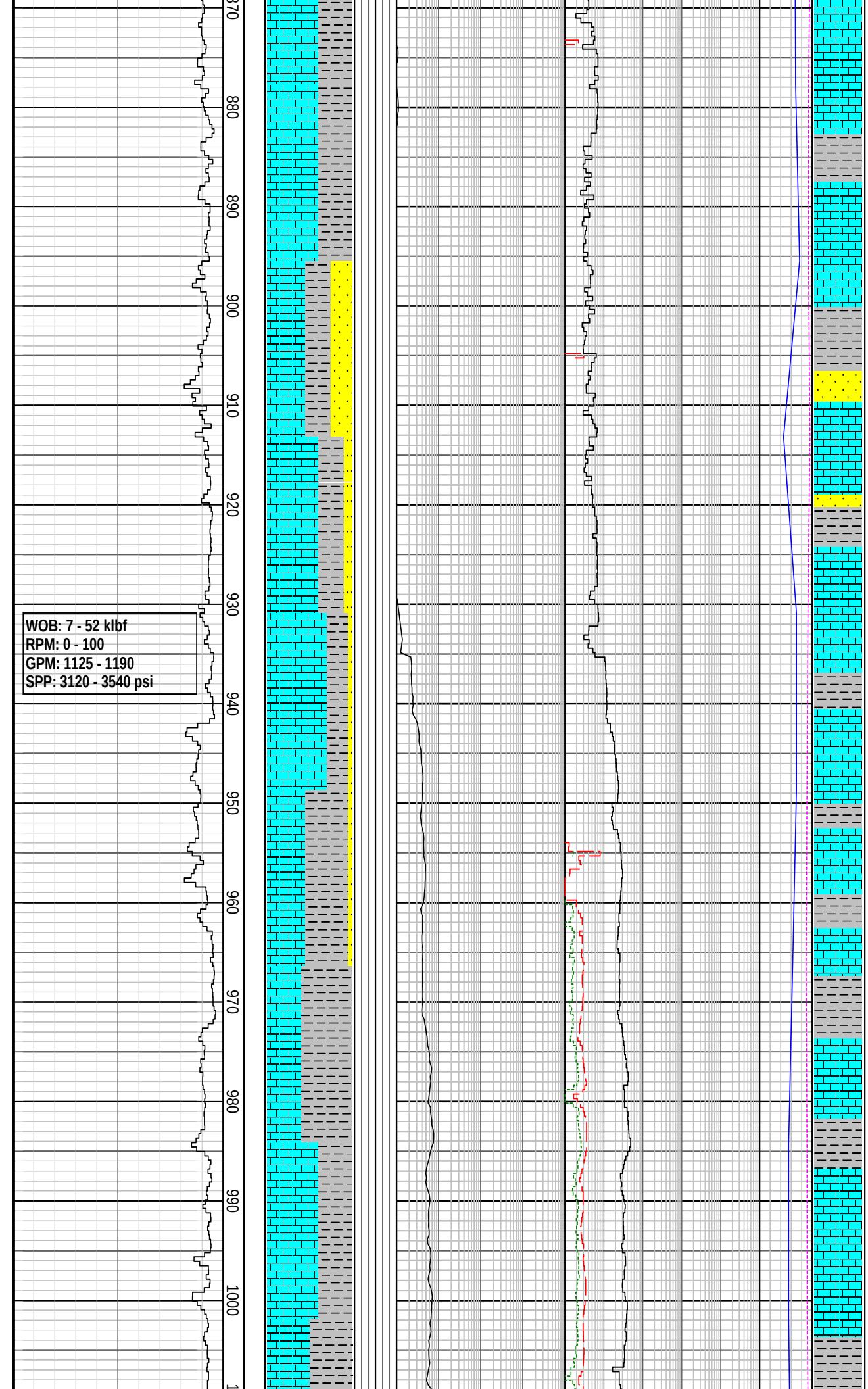
CALCILUTITE: lt gy-m lt gy, sft, tr glau

Survey @ 888.16 mMDRT
Incl: 27.56° Azi: 61.95°
TVD: 831.80 m

CALCILUTITE: lt gy-m lt gy, sft, tr glau

Survey @ 917.34 mMDRT
Incl: 27.22° Azi: 62.80°
TVD: 857.70 m

CLAYSTONE: lt gy-m gy, sft-fm, amor, mod calc-calc



CALCILUTITE: lt olv gy, lt gy-m lt gy, sft-fm, amor, grad to slty i/p, tr glau

Survey @ 947.31 mMDRT
Incl: 27.19° Azi: 62.99°
TVD: 884.4 m

CLAYSTONE (5%): lt gy-m gy, sft-fm, amor, mod calc

CALCILUTITE: lt olv gy, lt gy-m lt gy, sft-fm, amor, grad to slty i/p, tr glau

Survey @ 975.78 mMDRT
Incl: 28.07° Azi: 63.33°
TVD: 909.60 m

SAND: lse qtz gr, trnsl-trnsp, v hd, m-cr gr, sbang-rndd, slily calc

CALCARENITE: wh, lt olv gy-brnsh gy, trnsl, hd-v hd, v f-f gr, m i/p, sbang-ang, pr srt, tr foss frag, tr glau, grad to CLCLT, wl cmt; tr lse sd, m-crs qtz gr

MW: 1.13 sg FV: 40
PV: 5 YP: 15
Gels: 10/12/13 PH: 8
Rmf: 0.1052 @ 19.1°C

CALCILUTITE: wh-olv gy, lt olv gy, sft-fm, sbang, amor, m qtz gr i/p, com f skel frag, slty mtrx, grad to silty i/p

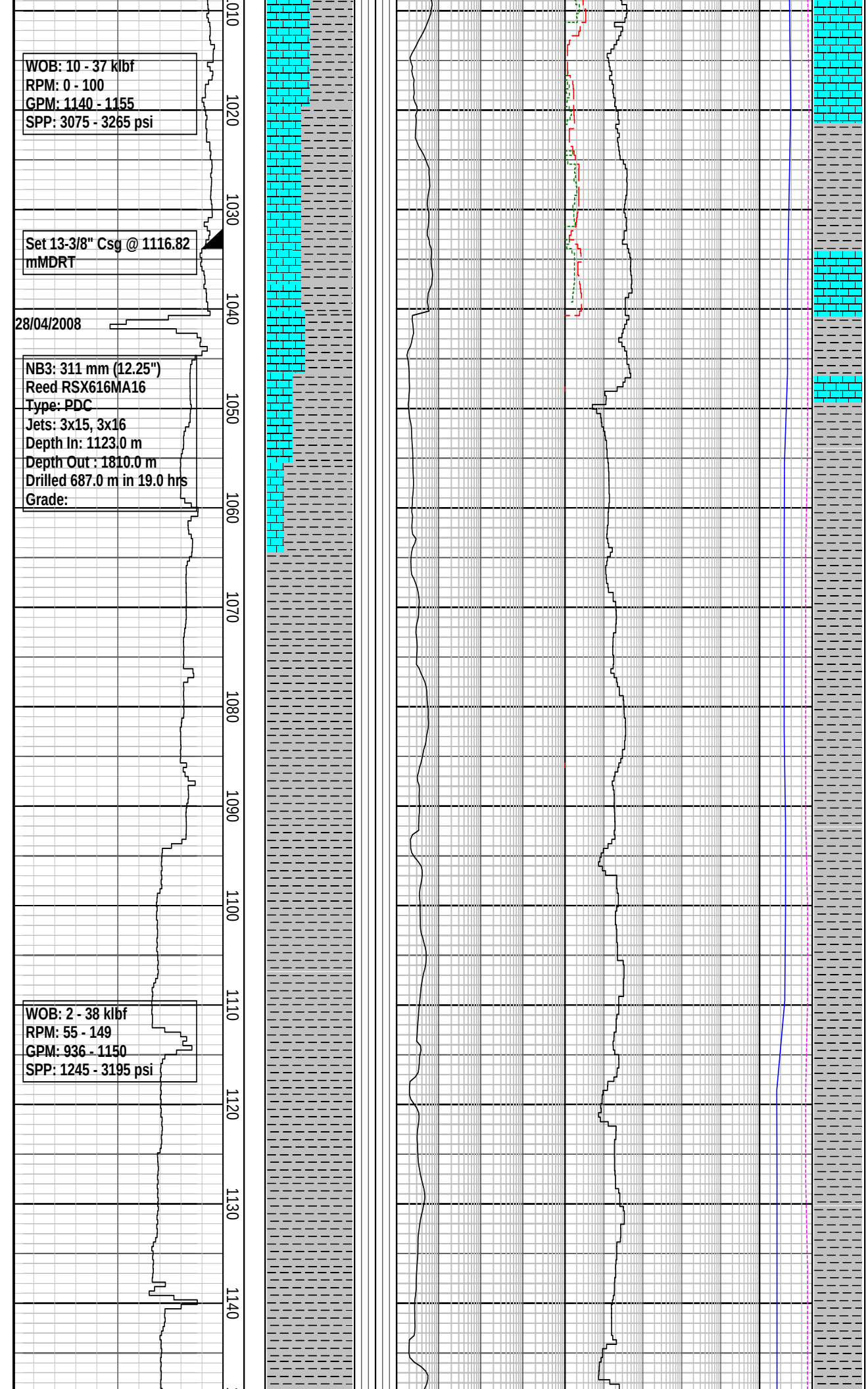
Survey @ 1034.76 mMDRT
Incl: 27.23° Azi: 63.27°
TVD: 961.9 m

CALCARENITE: wh, lt olv gy-brnsh gy, trnsl, hd-v hd, vf-f calc gr, m i/p, sbang-ang, pr srt, tr foss frag, tr glau, grad to CLCLT, wl cmt; tr lse sd, m-crs qtz gr

CALCILSILTITE: lt olv gy, frm-sft i/p, com v f, slty, m sbang qtz, tr blk flk, tr skel mtrx, arg mat

Survey @ 1064.7 mMDRT
Incl: 27.88° Azi: 62.07°
TVD: 988.4 m

CALCILUTITE: wh-olv gy, sft, f-m, tr sbang qtz, com f skel frag,com forams, tr m glau, wk slty mtrx, grd to CLST i/p



CALCARENITE: wh-lt olv gy, brnsh gy, hd-v hd, vf-f gr, m i/p, ang-sbang, tr blk lit, tr foss frag, tr glau, grad to CLCLT, wl cmt; tr qtz gr, trnsl, pl yel-occ or, v crs gr

Survey @ 1094.42 mMDRT
Incl: 27.05° Azi: 63.32°
TVD: 1014.8 m

CALCILUTITE: wh-olv gy, olv gy, sft-fm, tr sbang qtz, amor, slty mtrx, grad to silty i/p, tr glau

440 mm (17.5') Section TD @ 1123.0 m MDRT @ 27/04/2008

CALCISILTITE: lt olv gy, sft-fm i/p, com v f, com slty, trsnp-trnsl, tr sbang qtz, tr sil mic, tr skel, arg mat

Survey @ 1143.32 mMDRT
Incl: 25.87° Azi: 63.90°
TVD: 1058.6 m

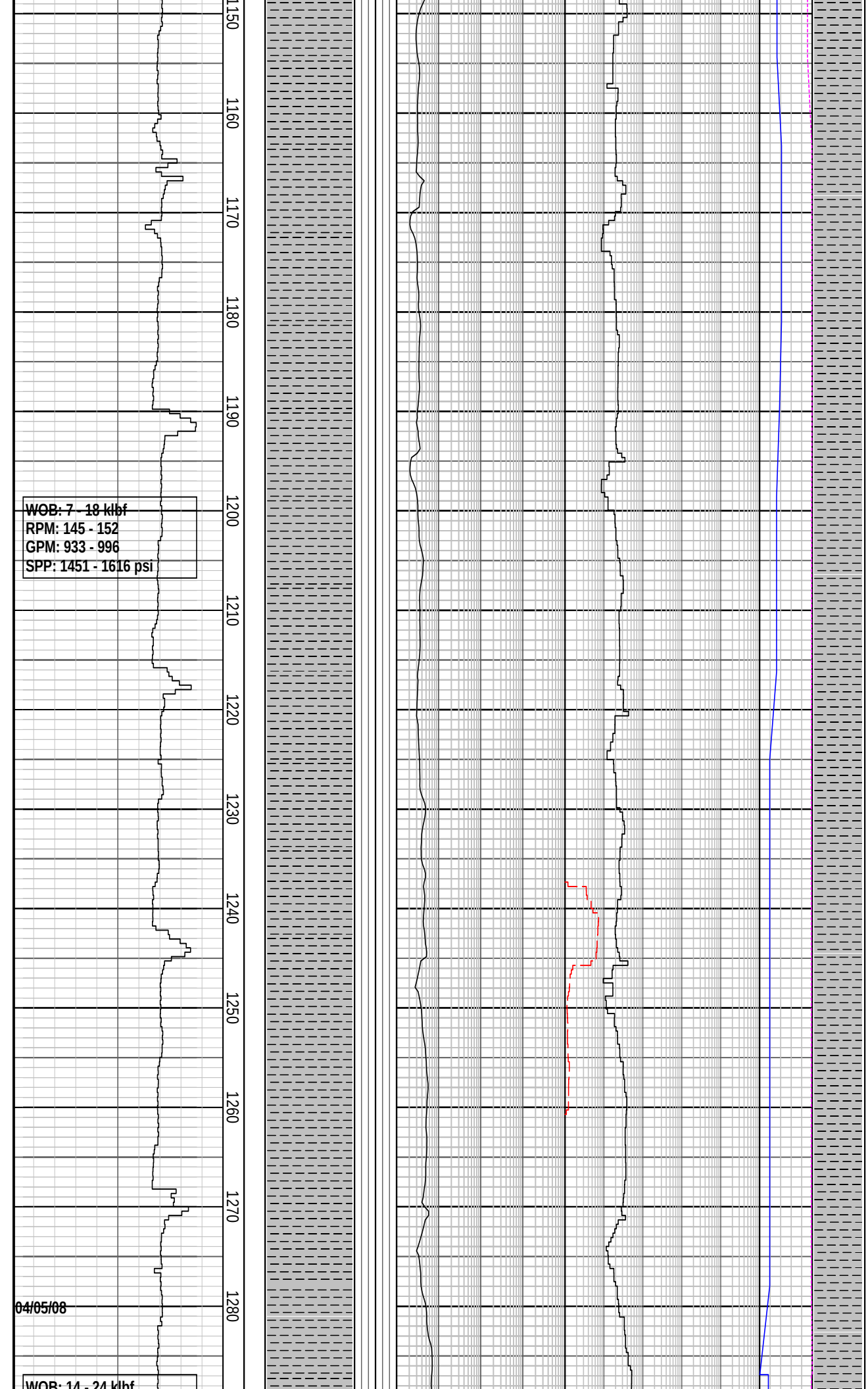
CALCILUTITE: m lt gy, grnsh-olv gy, sft-fm, blky, tr blk flk, grad to silty i/p

Survey @ 1184.95 mMDRT
Incl: 25.36° Azi: 62.41°
TVD: 1096.2 m

CALCILUTITE: m dk gy, olv gy-dk grnsh gy, sft-fm, mod hd, sbblky, gen loc sity, tr shl frag, tr micro mic, tr carb spk, tr carb CLST

Survey @ 1214.47 mMDRT
Incl: 26.03° Azi: 61.94°
TVD: 1122.8 m

CALCAREOUS CLAYSTONE: m gy, olv gy, sft-fm, sbblky, 40% calc cly, micr mic, tr carb mat



Survey @ 1244.37 mMDRT
Incl: 26.97° Azi: 60.72°
TVD: 1149.6 m

CALCAREOUS CLAYSTONE: m gy, olv gy, sft-fm, sbblky, 40% calc cly, micr mic, tr carb mat, tr v f dissem pyr, tr glau

Survey @ 1273.71 mMDRT
Incl: 27.88° Azi: 59.68°
TVD: 1175.6 m

CALCAREOUS CLAYSTONE: m gy, olv gy, sft-fm, sbblky, com calc cly, micr mic, tr carb mat, tr v f dissem pyr, tr glau

MW: 1.13 sg FV: 48
PV: 11 YP: 16
Gels: 10/14/16 PH: 8.5

Survey @ 1303.22 mMDRT
Incl: 28.77° Azi: 60.45°
TVD: 1201.6 m

Carbide Run @ 1321 mMDRT
Theo: 5650 stks
Actual: 5800 stks
Hole washout: 2.7 %

CALCAREOUS CLAYSTONE: m gy, olv gy, sft-fm, sbblky, 30% calc cly, micr mic, tr carb mat, tr v f dissem pyr, tr glau

Survey @ 1333.07 mMDRT
Incl: 28.34° Azi: 61.52°
TVD: 1227.9 m

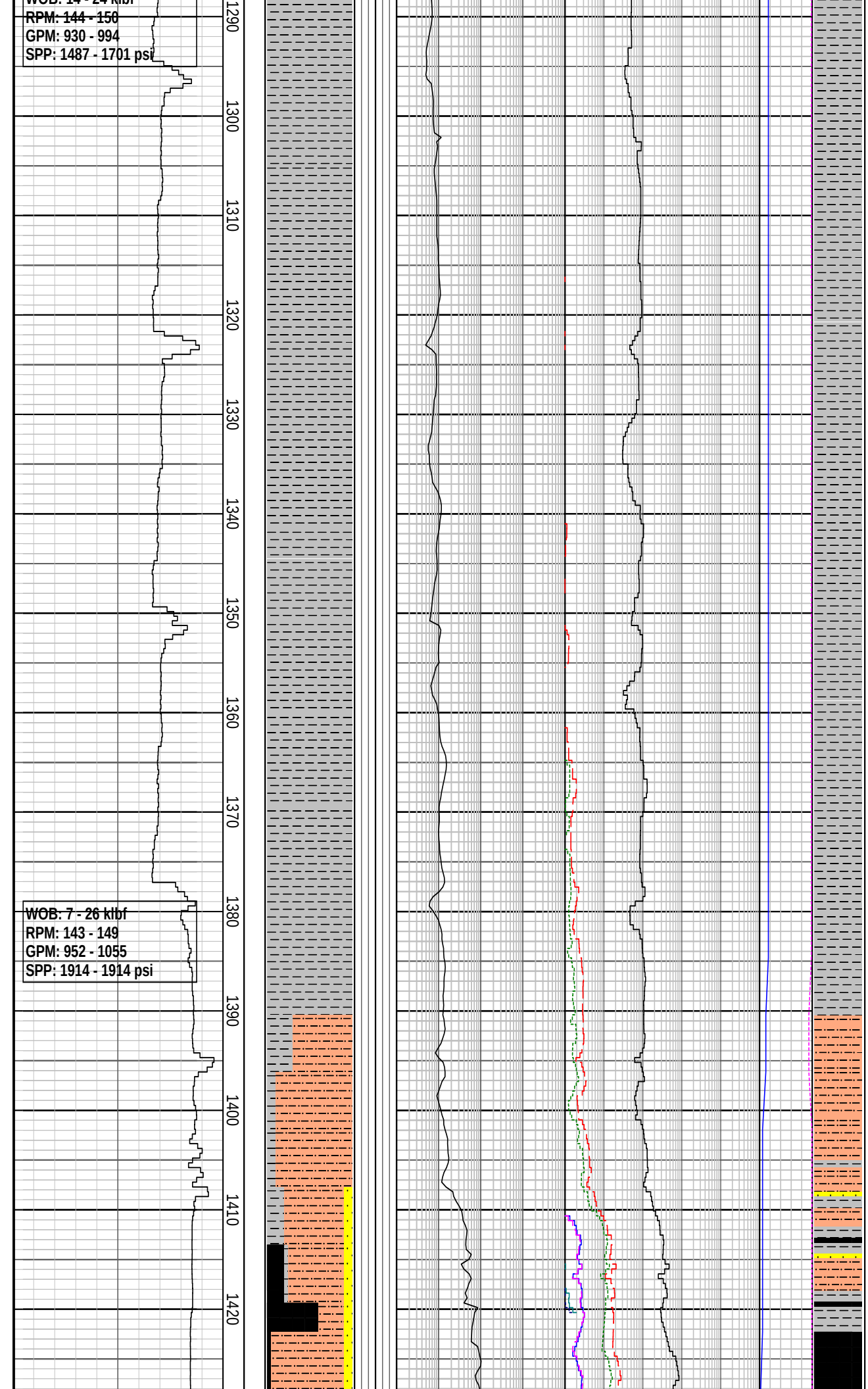
CALCAREOUS CLAYSTONE: m gy, olv gy, sft-fm, sbblky, 30% calc cly, micr mic, tr carb mat, tr v f dissem pyr, tr glau

Survey @ 1362.30 mMDRT
Incl: 28.20° Azi: 62.55°
TVD: 1253.7 m

CALCAREOUS CLAYSTONE: m gy, olv gy, sft-fm, sbblky, 30% calc cly, micr mic, tr carb mat, tr v f dissem pyr, tr glau

Add CaCO3 to mud system at 1380.0 mMDRT on 3/5/08 at 2330hrs

Survey @ 1392.46 mMDRT
Incl: 27.26° Azi: 63.55°
TVD: 1280.4 m



CLAYSTONE: m gy, olv gy, sft-fm, sbblky, 20% calc cly, micr mic, tr carb mat, tr dissem pyr, tr glau

Survey @ 1421.70 mMDRT
Incl: 25.27° Azi: 66.35°
TVD: 1306.6 m

CLAYSTONE: m dk gy, dk gnsh gy, m gy i/p, sft-frm, sbblky, 10% calc cly, tr micr mic, tr pyr

Survey @ 1451.62 mMDRT
Incl: 22.70° Azi: 68.06°
TVD: 1333.9 m

CLAYSTONE: m lt gy, sft, sbblky, 15 calc cly, tr micr mic, 10-20% glau, tr foram

Survey @ 1481.39 mMDRT
Incl: 20.36° Azi: 68.27°
TVD: 1361.6 m

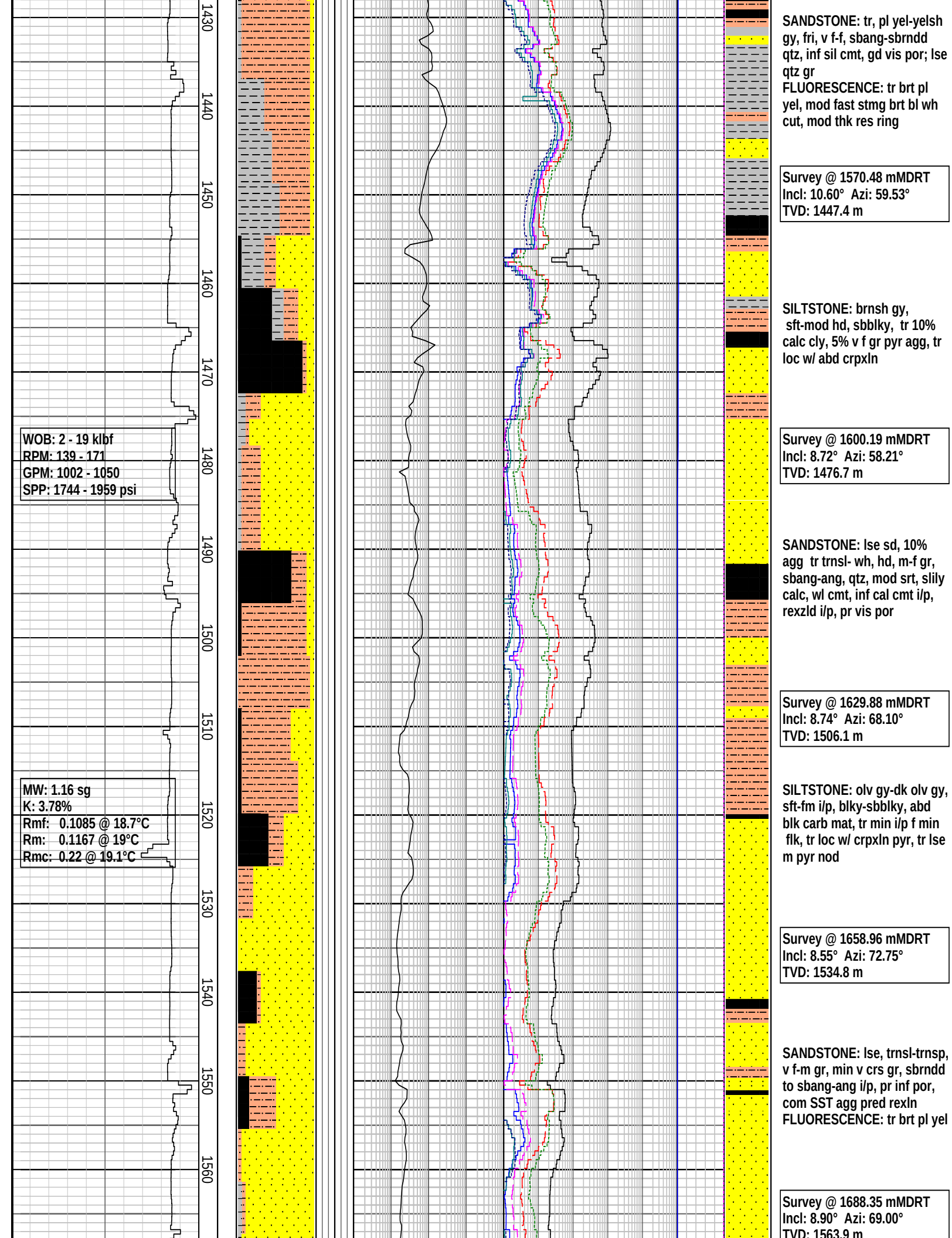
CLAYSTONE: brnsh gy, m lt gy, v sft-sft, frm i/p,10% calc cly, 15% glau

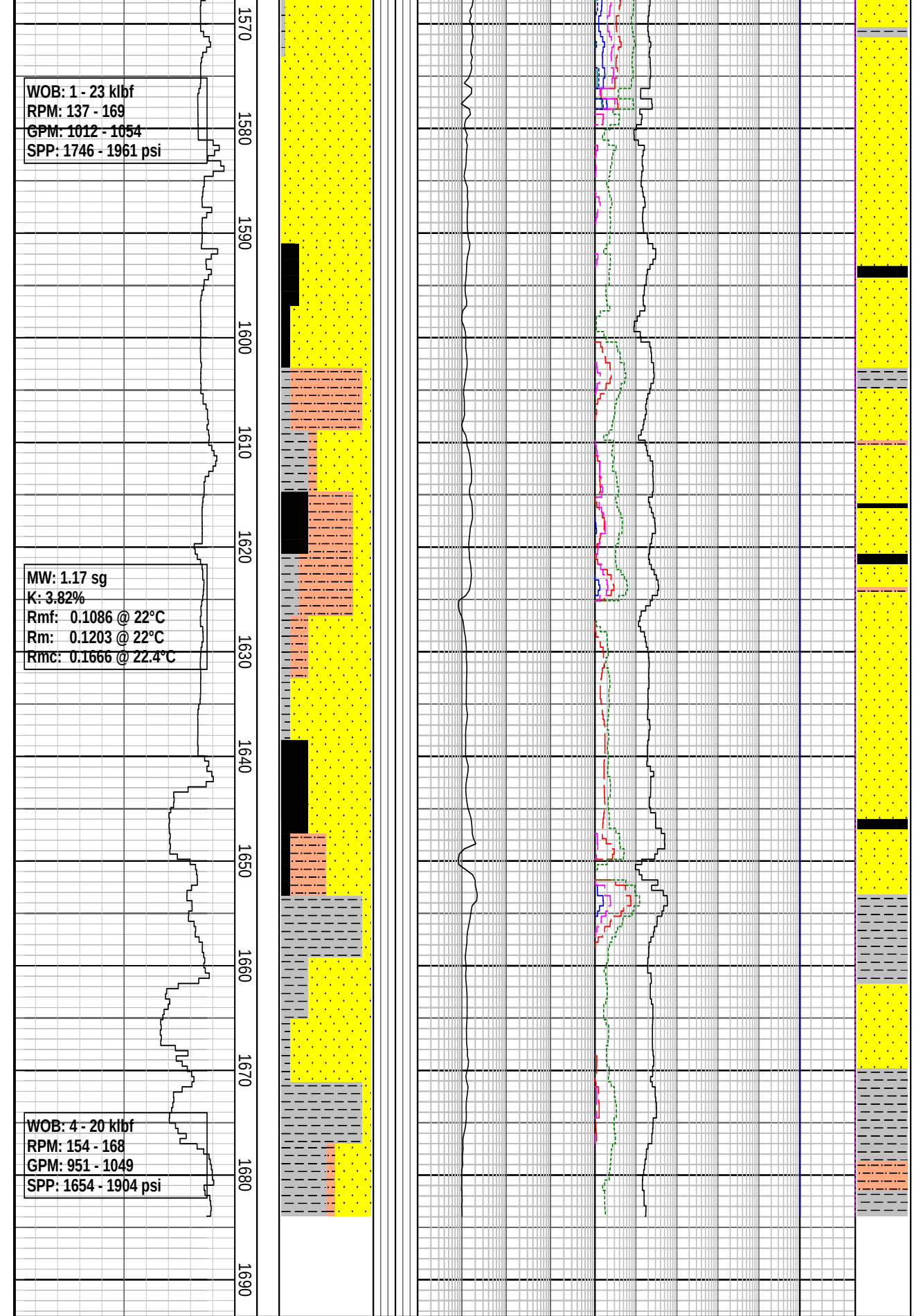
Survey @ 1511.36 mMDRT
Incl: 17.26° Azi: 67.69°
TVD: 1389.8 m

SILTSTONE: brnsh gy, v sft-sft, sbblky, 30% glau, 10% calc cly, tr v f-f pyr, tr shl frag, tr foram

SANDSTONE: lse qtz gr, clr & opq, lt gy, f-m, crs-v crs gr, sbang-sbrndd, rndd i/p, prly srt, tr gy mtrx, pr vis por, no shw

COAL: blk, dk brn blk, blky, cleated, pred brt, tr v f gr, dissem pyr


1430
1440
1450
1460
1470
1480
1490
1500
1510
1520
1530
1540
1550
1560
WOB: 2 - 19 klbf
RPM: 139 - 171
GPM: 1002 - 1050
SPP: 1744 - 1959 psi
MW: 1.16 sg
K: 3.78%
Rmf: 0.1085 @ 18.7°C
Rm: 0.1167 @ 19°C
Rmc: 0.22 @ 19.1°C
SANDSTONE: tr, pl yel-yelsh gy, fri, v f-f, sbang-sbrndd qtz, inf sil cmt, gd vis por; lse qtz gr
FLUORESCENCE: tr brt pl yel, mod fast stmg brt bl wh cut, mod thk res ring
Survey @ 1570.48 mMDRT
Incl: 10.60° Azi: 59.53°
TVD: 1447.4 m
SILTSTONE: brnsh gy, sft-mod hd, sbblky, tr 10% calc cly, 5% v f gr pyr agg, tr loc w/ abd crpxln
Survey @ 1600.19 mMDRT
Incl: 8.72° Azi: 58.21°
TVD: 1476.7 m
SANDSTONE: lse sd, 10% agg tr trnsl- wh, hd, m-f gr, sbang-ang, qtz, mod srt, slily calc, wl cmt, inf cal cmt i/p, rexzld i/p, pr vis por
Survey @ 1629.88 mMDRT
Incl: 8.74° Azi: 68.10°
TVD: 1506.1 m
SILTSTONE: olv gy-dk olv gy, sft-fm i/p, blky-sbblky, abd blk carb mat, tr min i/p f min flk, tr loc w/ crpxln pyr, tr lse m pyr nod
Survey @ 1658.96 mMDRT
Incl: 8.55° Azi: 72.75°
TVD: 1534.8 m
SANDSTONE: lse, trnsl-trnsp, v f-m gr, min v crs gr, sbrndd to sbang-ang i/p, pr inf por, com SST agg pred rexln
FLUORESCENCE: tr brt pl yel
Survey @ 1688.35 mMDRT
Incl: 8.90° Azi: 69.00°
TVD: 1563.9 m



SANDSTONE: trnsl-wh, hd, v crs gran, sbang-ang, qtz, tr loc w/ crypxln pyr, tr lse sd, mod wl srt, rexln, pr vis por

FLUORESCENCE: tr brt pl yel, v slw stmg brt bl wh cut, mod thn wk res ring

Survey @ 1717.96 mMDRT
Incl: 8.56° Azi: 61.34°
TVD: 1593.1 m

CLAYSTONE: med dk gy, frm, sbblky, micrmic

SILTSTONE: olv gy, pl yelsh brn, sft, amor-sbblky, tr carb mat

Survey @ 1747.50 mMDRT
Incl: 8.59° Azi: 54.77°
TVD: 1622.3 m

SANDSTONE: lt gy, dk yelsh brn, pred op, i/p clr, pred lse qtz, i/p hd when rexln, crs-gran, pred v crs-gran, ang-sb rndd, mod srt, 5% sil cmt, wh cly mtrx wh/out, inf fr-gd vis por
FLUORESCENCE: dk brn blk stn on sm gr surf

Survey @ 1777.39 mMDRT
Incl: 8.68° Azi: 54.87°
TVD: 1651.9 m

SANDSTONE: lt gy, op, i/p clr, lse qtz gr, pred m gr, grad f gr to gran, sbang-sbrndd, mod srt, cly mtrx w/out, tr v f gr pyr agg cmt, inf fr vis por, no show

CLAYSTONE: lt olv gy, lt gy, m gy, sft-fm, sbblky, micrmic, r carb mat, tr dissem pyr

West Seahorse-3 reached TD depth of 1810.0 mMDRT at 1900hrs on 04/05/2008

FORMATION EVALUATION LOG

Drilling Rate
ROP (m/hr)
200 180 160 140 120 100 80 60 40 20
ROP (m/hr)

TVD meters 1:

TVDRT meters

Cuttings Litho

Visual Inferred

Oil Show
P F G

Gas Data
Gas Hydrocarbon Avg %
0.01 0.1 1 10

Chromatograph Data
Methane ppm 1 100000
Ethane ppm 1 100000
Propane ppm

Calcimetry
CaCO3 %

Interpreted L

Lithology Description

400 380 360 340 320 300 280 260 240 220

500

s

ology

d Porosity

P F G

1 Propane ppm 100000

1 iso-Butane ppm 100000

1 n-Butane ppm 100000

1 iso-Pentane ppm 100000

1 n-Pentane ppm 100000

20 40 60 80 100

MgCO3 %

100 80 60 40 20

ithology