

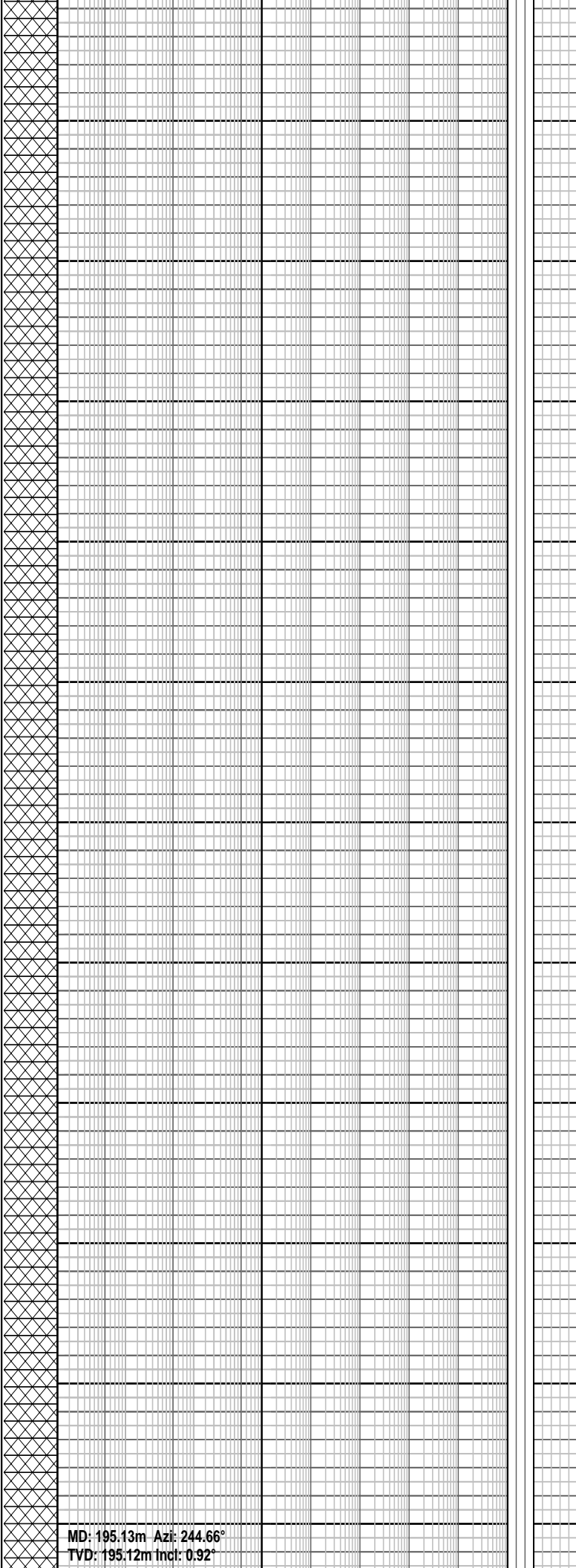
RPM: 60-80
GPM: 600-1140
SPP: 250-1150 psi

Set 762mm (30") casing shoe at 151.0m

21-22/09/08

NB2: 406mm (16")
Make: Hughes
Type: Rock/GXC-1V
Jets: 3x20
Depth In: 154.0m
Depth Out: 850.0m
Drilled 696.0 m in 19.5hrs
Grade: 1-1-WT-A-4-I-NO-PR

145
150
155
160
165
170
175
180
185
190
195



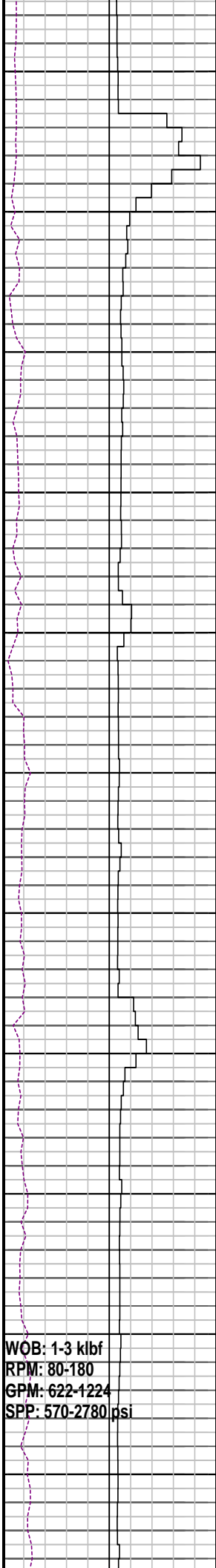
36" Hole Section TD 154.0m

MD: 195.13m Azi: 244.66°
TVD: 195.12m Incl: 0.92°

WOB: 1-3 klbf
RPM: 78-82
GPM: 622-629
SPP: 623-680 psi

200
205
210
215
220
225
230
235
240
245
250

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 106.4m - 850.0m

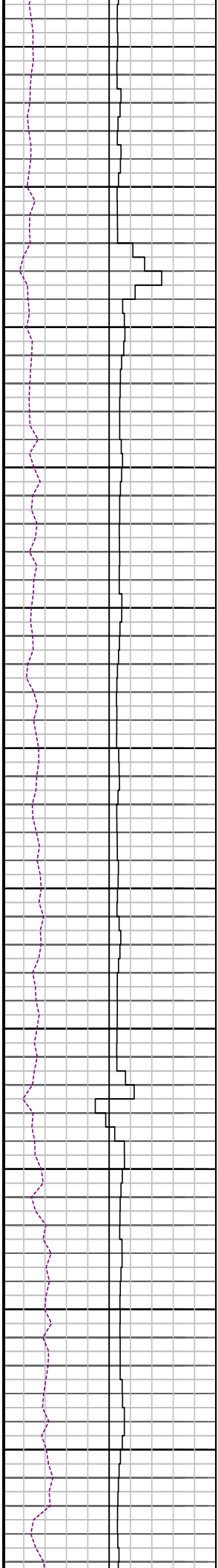


255
260
265
270
275
280
285
290
295
300
305

WOB: 1-3 klbf
RPM: 80-180
GPM: 622-1224
SPP: 570-2780 psi

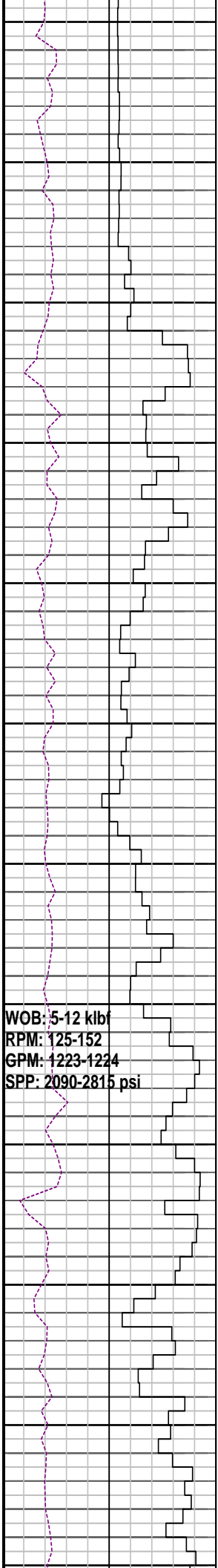
Drill with seawater & Hi-Vis sweeps.
Returns to seabed 106.4m - 850.0m

310 315 320 325 330 335 340 345 350 355 360



MD: 341.42m Azi: 323.79°
TVD: 341.40m Incl: 0.03°

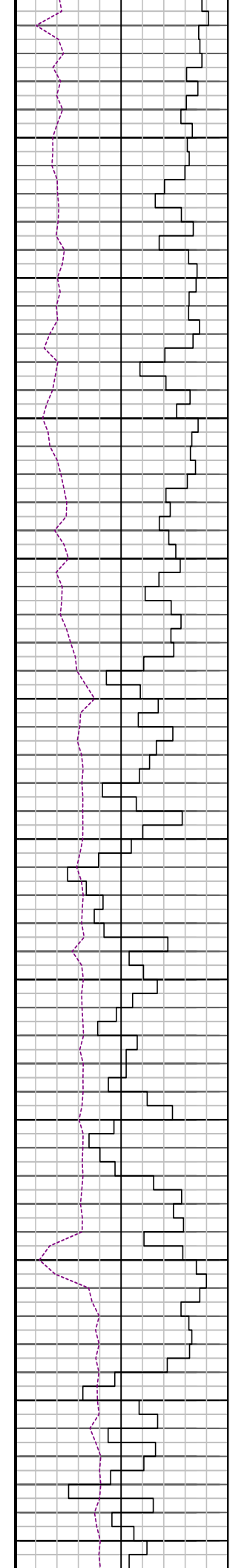
365
370
375
380
385
390
395
400
405
410
415
42



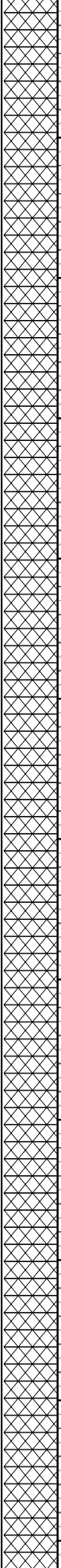
MD: 370.87m Azi: 246.56°
TVD: 370.85m Incl: 0.36°

MD: 399.83m Azi: 249.03°
TVD: 399.81m Incl: 0.45°

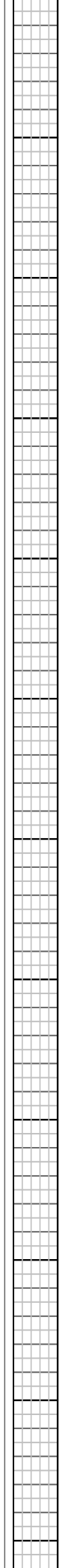
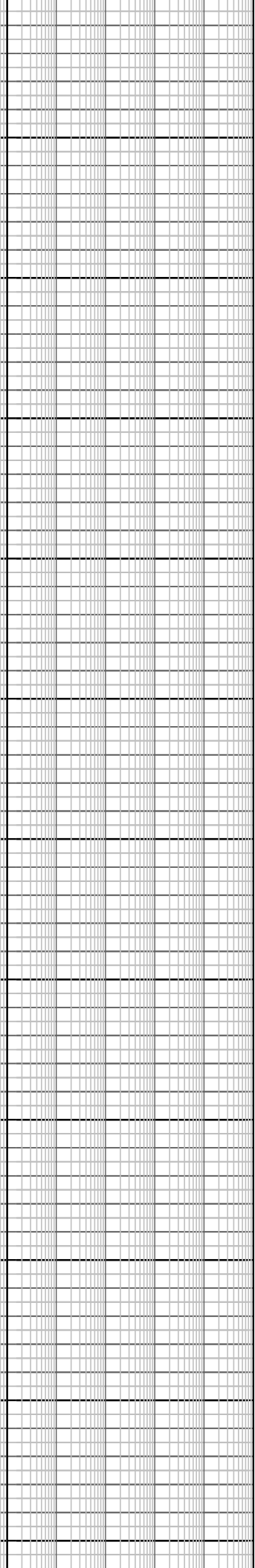
Drill with seawater & Hi-Vis sweeps.
Returns to seabed 106.4m - 850.0m

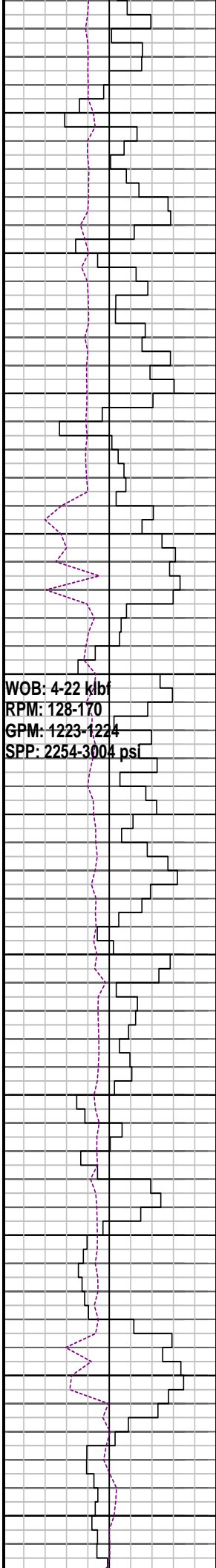


0
425
430
435
440
445
450
455
460
465
470
475



MD: 458.61m Azi: 256.30°
TVD: 458.59m Incl: 0.26°





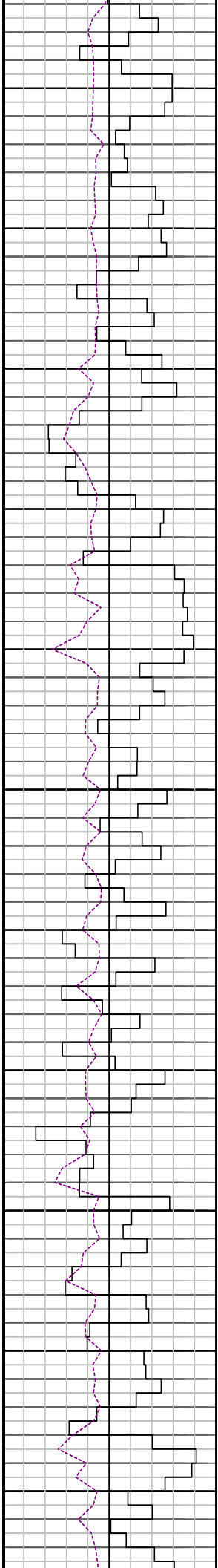
480
485
490
495
500
505
510
515
520
525
530

MD: 488.50m Azi: 298.03°
TVD: 488.48m Incl: 0.55°

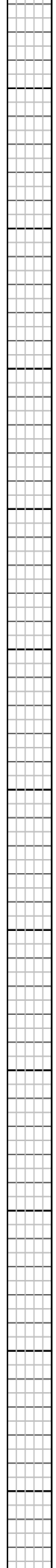
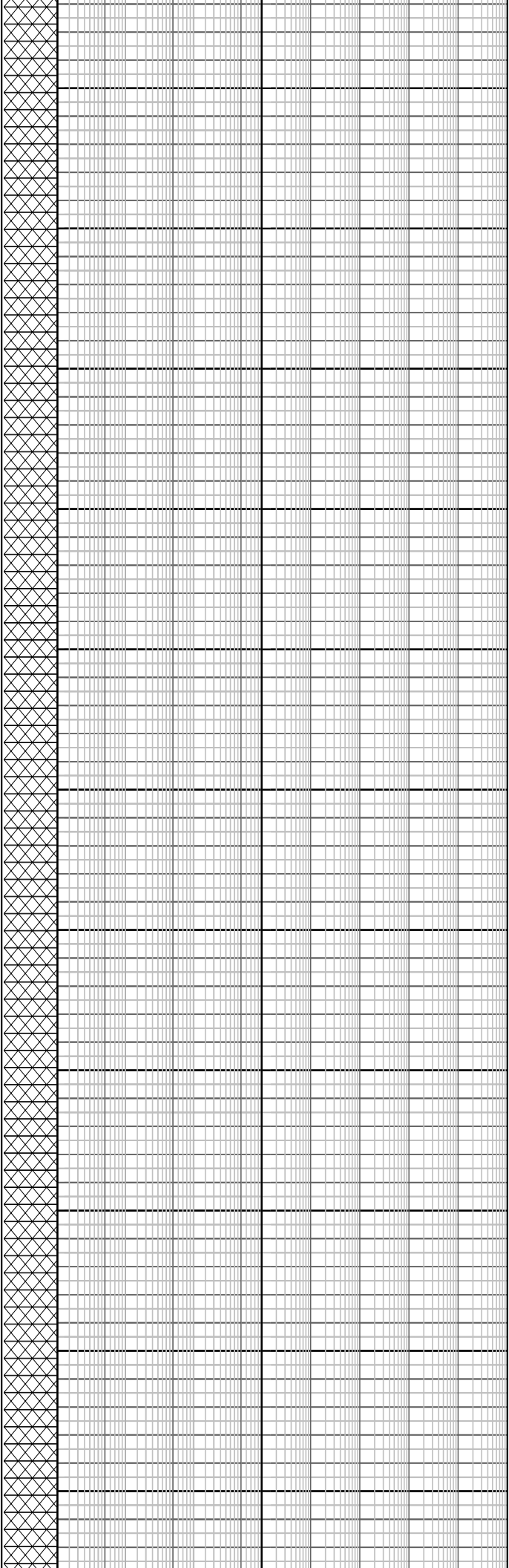
WOB: 4-22 klf
RPM: 128-170
GPM: 1223-1224
SPP: 2254-3004 psi

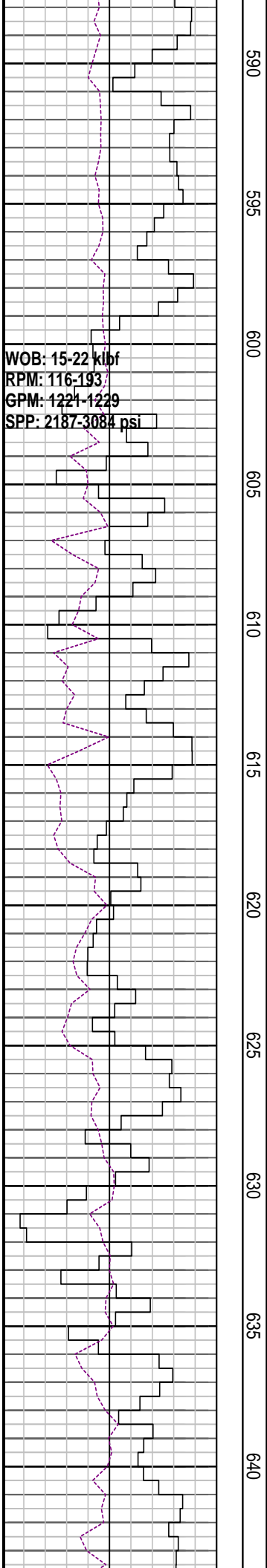
MD: 518.24m Azi: 302.41°
TVD: 518.22m Incl: 0.60°

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 106.4m - 850.0m

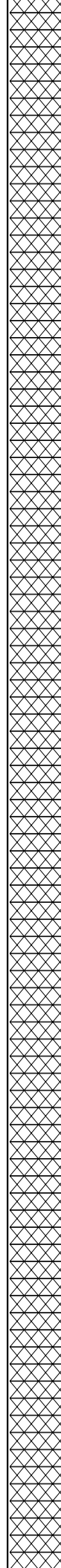


535 540 545 550 555 560 565 570 575 580 585





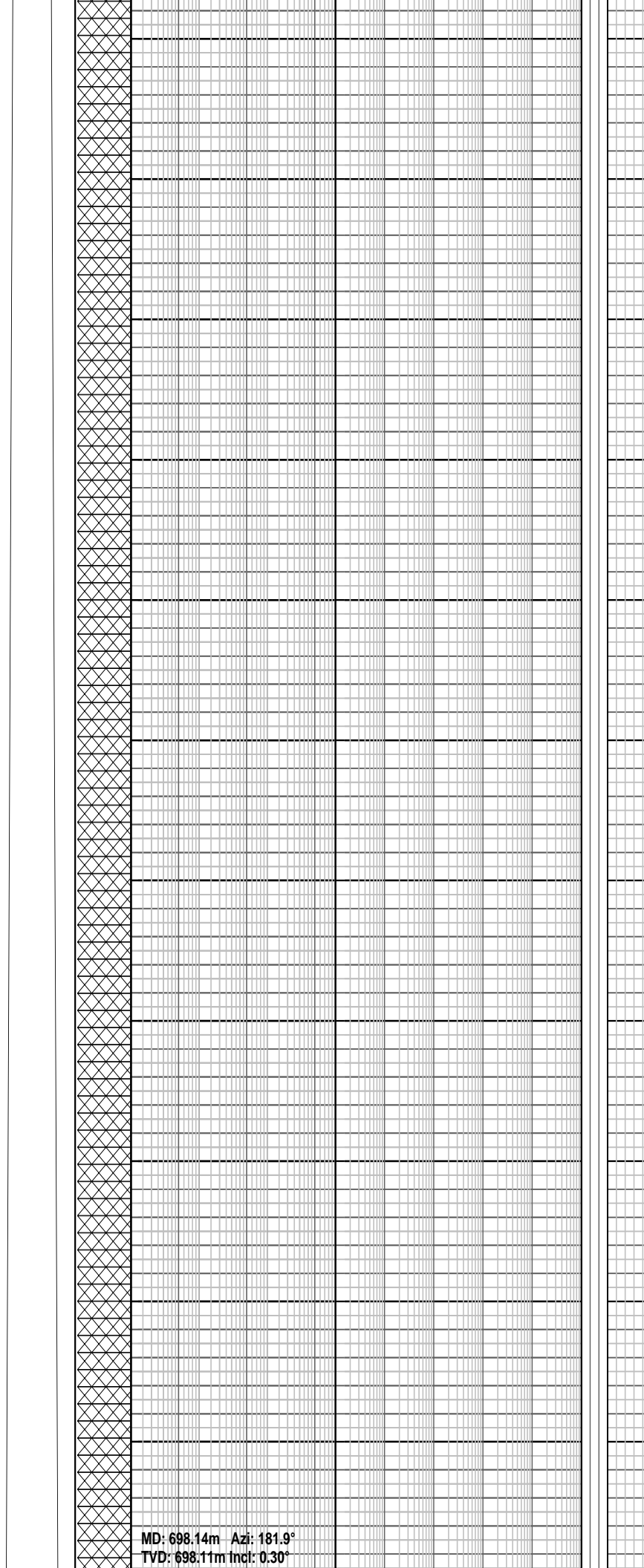
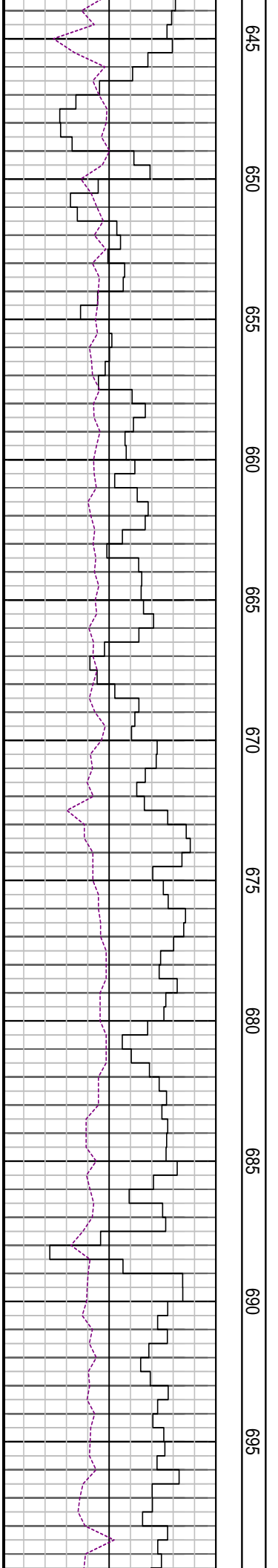
590
595
600
605
610
615
620
625
630
635
640



MD: 607.51m Azi: 265.06°
TVD: 607.48m Incl: 0.34°

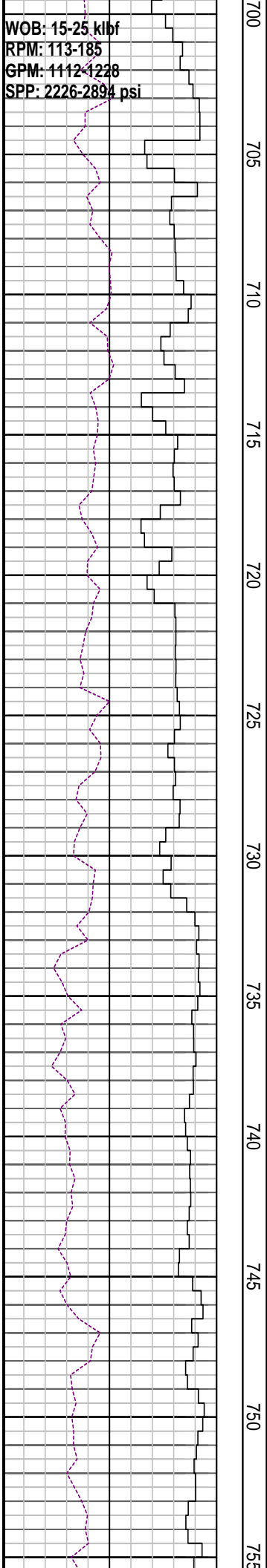
MD: 634.48m Azi: 227.13°
TVD: 634.45m Incl: 0.12°

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 106.4m - 850.0m

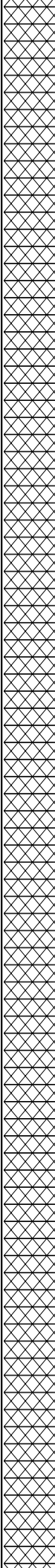


MD: 698.14m Azi: 181.9°
TVD: 698.11m Incl: 0.30°

WOB: 15-25 klbf
RPM: 113-185
GPM: 1112-1228
SPP: 2226-2894 psi



700
705
710
715
720
725
730
735
740
745
750
755



MD: 725.93m Azi: 188.82°
TVD: 725.90m Incl: 1.97°

MD: 755.72m Azi: 175.57°
TVD: 755.70m Incl: 1.97°

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 106.4m - 850.0m

MD: 755.72m Azi: 173.37°
TVD: 755.76m Incl: 2.82°

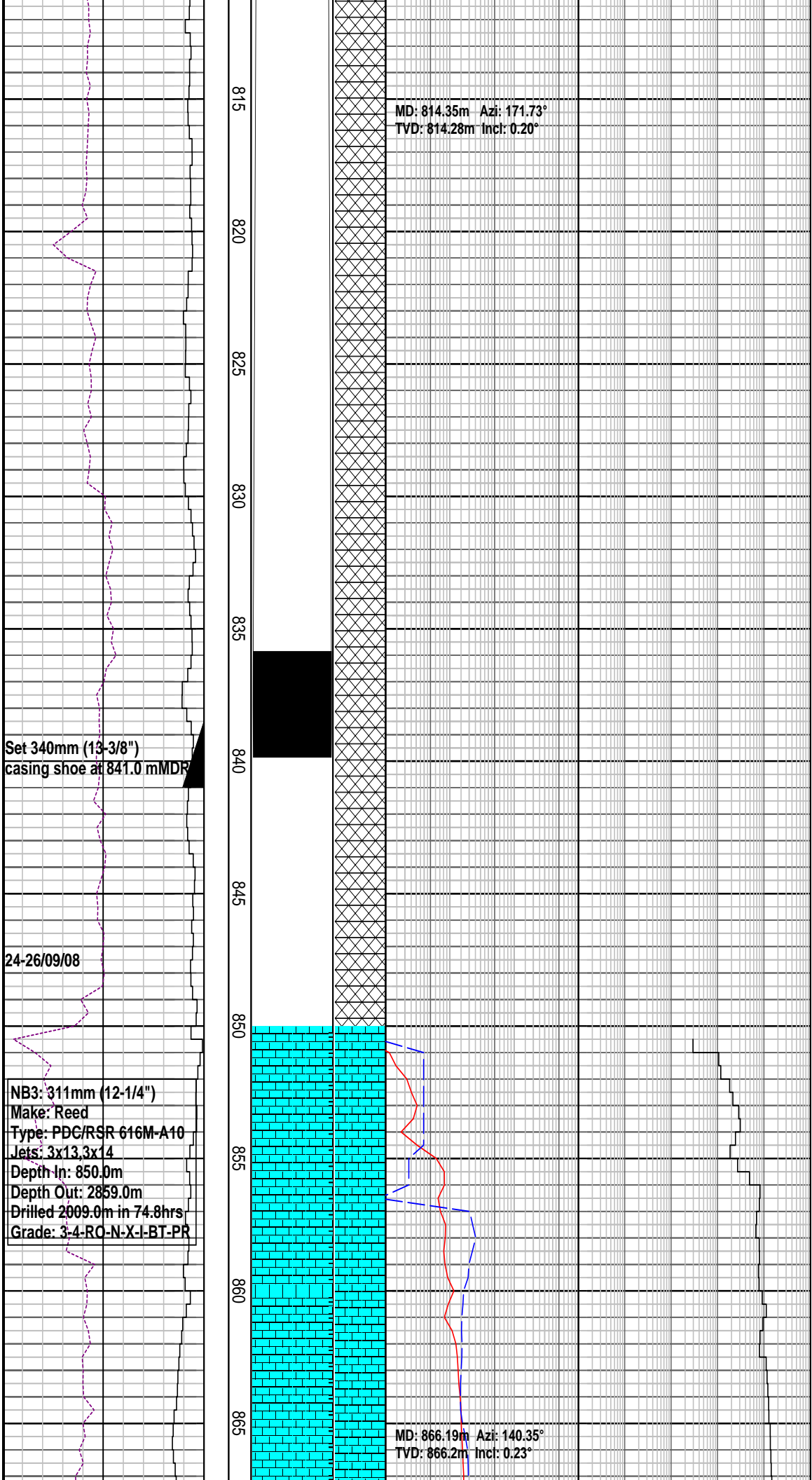
23/09/08

760
765
770
775
780
785
790
795
800
805
810

MD: 785.01m Azi: 168.12°
TVD: 784.94m Incl: 0.33°

WOB: 10-25 klbf
RPM: 104-185
GPM: 1091-1148
SPP: 1924-2586psi

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 106.4m - 850.0m



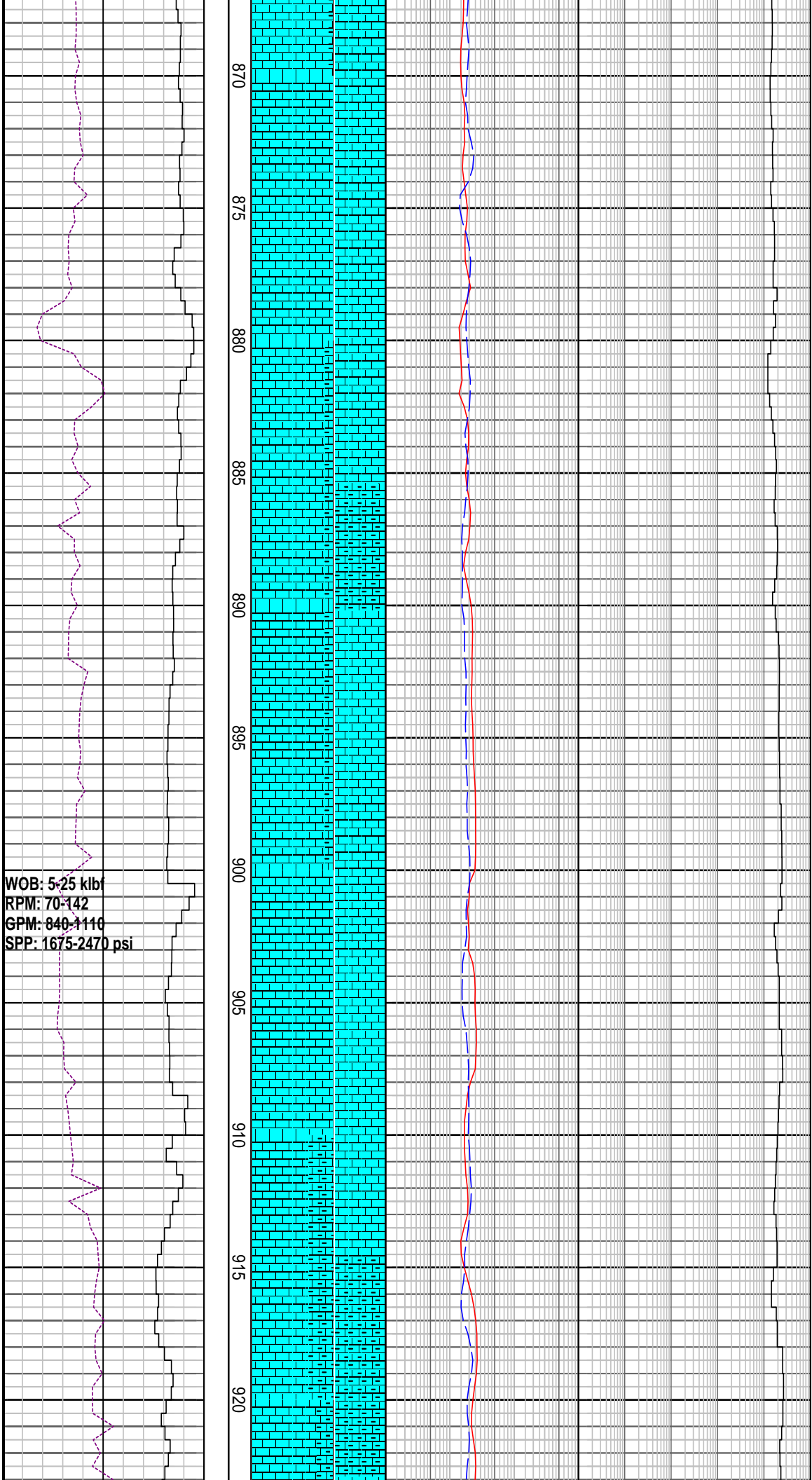
16" Hole Section TD 850.0m

Drill with KCI/PHPA mud
850.0m to Well TD

MW: 8.7 ppg	FV:
153	
PV: 24	YP:40
Gels: 10/12/12	pH: 9.0

LOT @ 853.0m with 8.8 ppg
EMW: 15.06 ppg @ 900 psi

CALCULITITE lt bl gy, mod sft, ang f
gr slit par, wl srt, wk calc cmt, Ls md
mtrx, p vis por

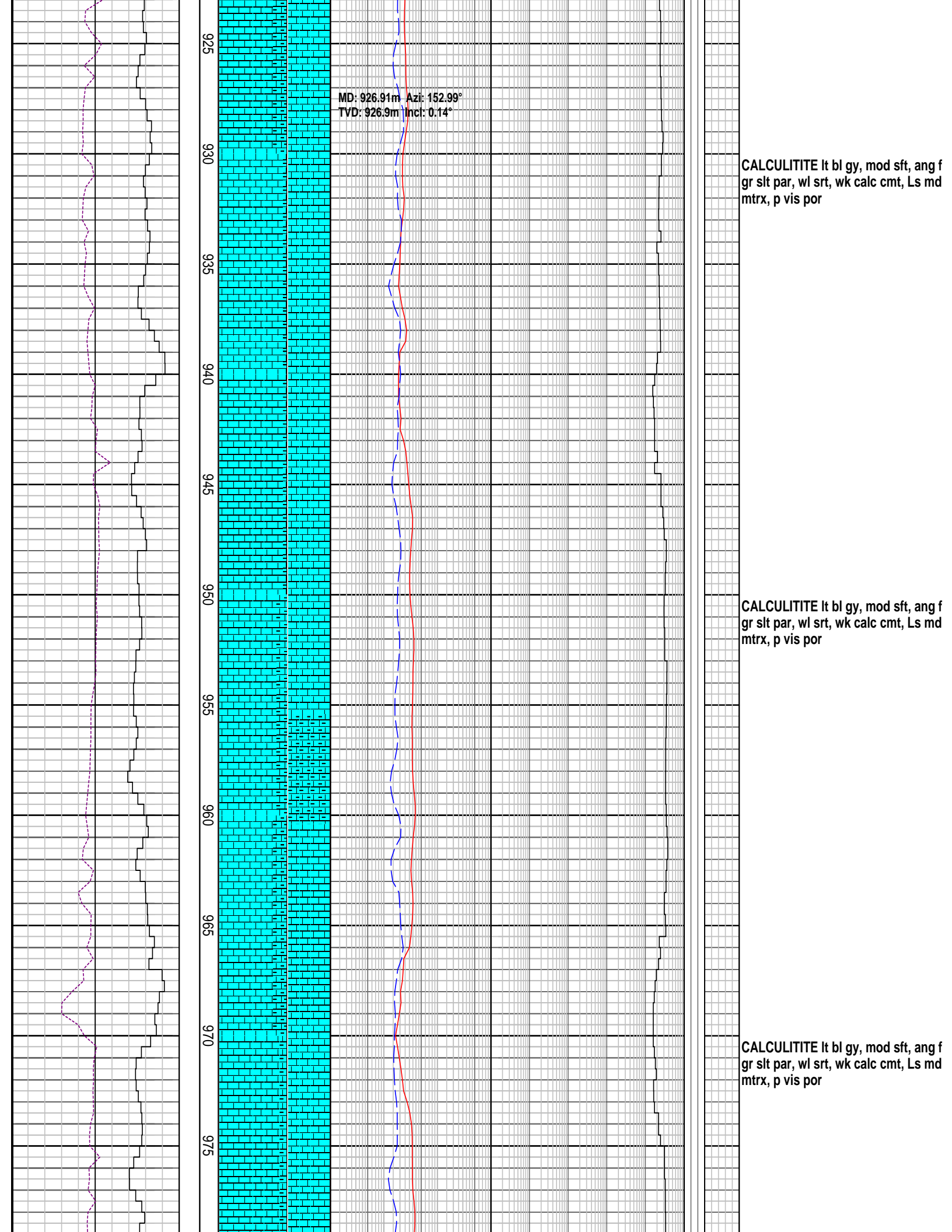


WOB: 5-25 klbf
RPM: 70-142
GPM: 840-1110
SPP: 1675-2470 psi

CALCARENITE : yel gy-lt olv gy,
sbrndd blk, mod hd, f gr, trnsl sb ang
cal

CALCULITITE : lt bl gy, mod sft, ang f
gr slt par, wl srt, wk calc cmt, Ls md
mtrx, p vis por

CALCARENITE : yel gy-lt olv gy,
sbrndd-blky, mod hd, f gr, trnsl sb
ang



WOB: 15-25 klbf
RPM: 107-185
GPM: 1000-1110
SPP: 2135-2450 psi

980
985
990
995
1000
1005
1010
1015
1020
1025
1030
11

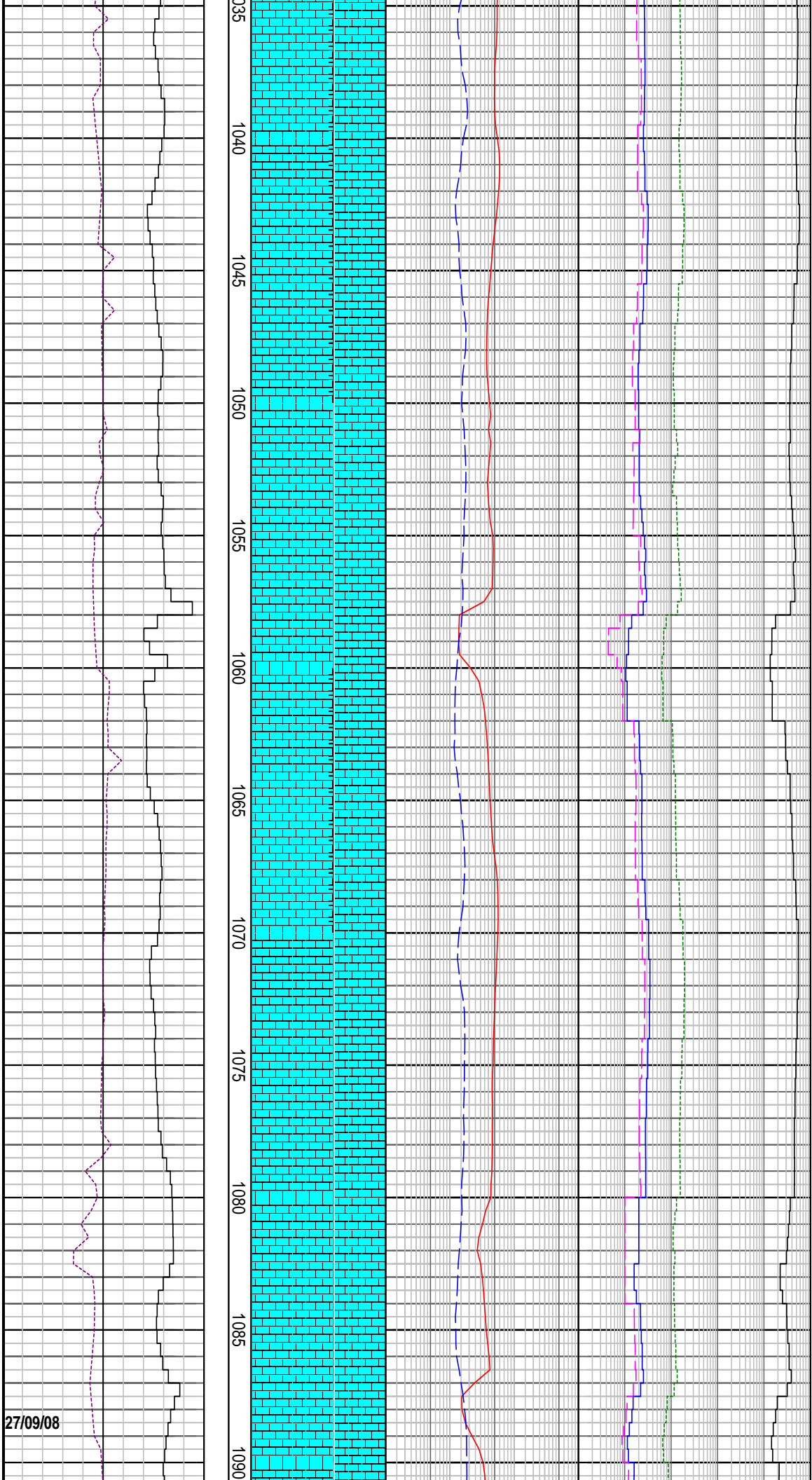
MD: 1015.91m Azi: 23.8°
TVD: 1015.9m Incl: 0.11°

CALCARENITE : yel gy-lt olv gy,
sbrndd-blky, mod hd, f gr, trnsl sb
ang calc, calc cmt

CALCULITITE lt bl gy, mod sft, ang f
gr slt par, wl srt, wk calc cmt, Ls md
mtrx, p vis por

MW: 8.8 ppg	FV: 70
PV: 16	YP: 36
Gels: 13/20/23	pH: 8.5

CALCARENITE : yel gy-lt olv gy,
sbrndd-blky, mod hd, f gr, trnsl sb
ang



CALCULITITE lt bl gy, mod sft, ang f
gr slit par, wl srt, wk calc cmt, Ls md
mtrx, p vis por

CALCULITITE lt bl gy, mod sft, ang f
gr slit par, wl srt, wk calc cmt, Ls md
mtrx, p vis por

CALCULITITE lt bl gy-olv gy, sft-mod
sft, blk, ang f gr slit par, calc cmt,
com calcs slit, lam slty

CAL CARENITE : lt olv av-m av.

27/09/08

WOB: 20-25 klf
RPM: 131-148
GPM: 1060-1110
SPP: 2360-2485 psi

1095
1100
1105
1110
1115
1120
1125
1130
1135
1140
1145

MD: 1104.27m Azi: 50.17°
TVD: 1104.2m Incl: 0.09°

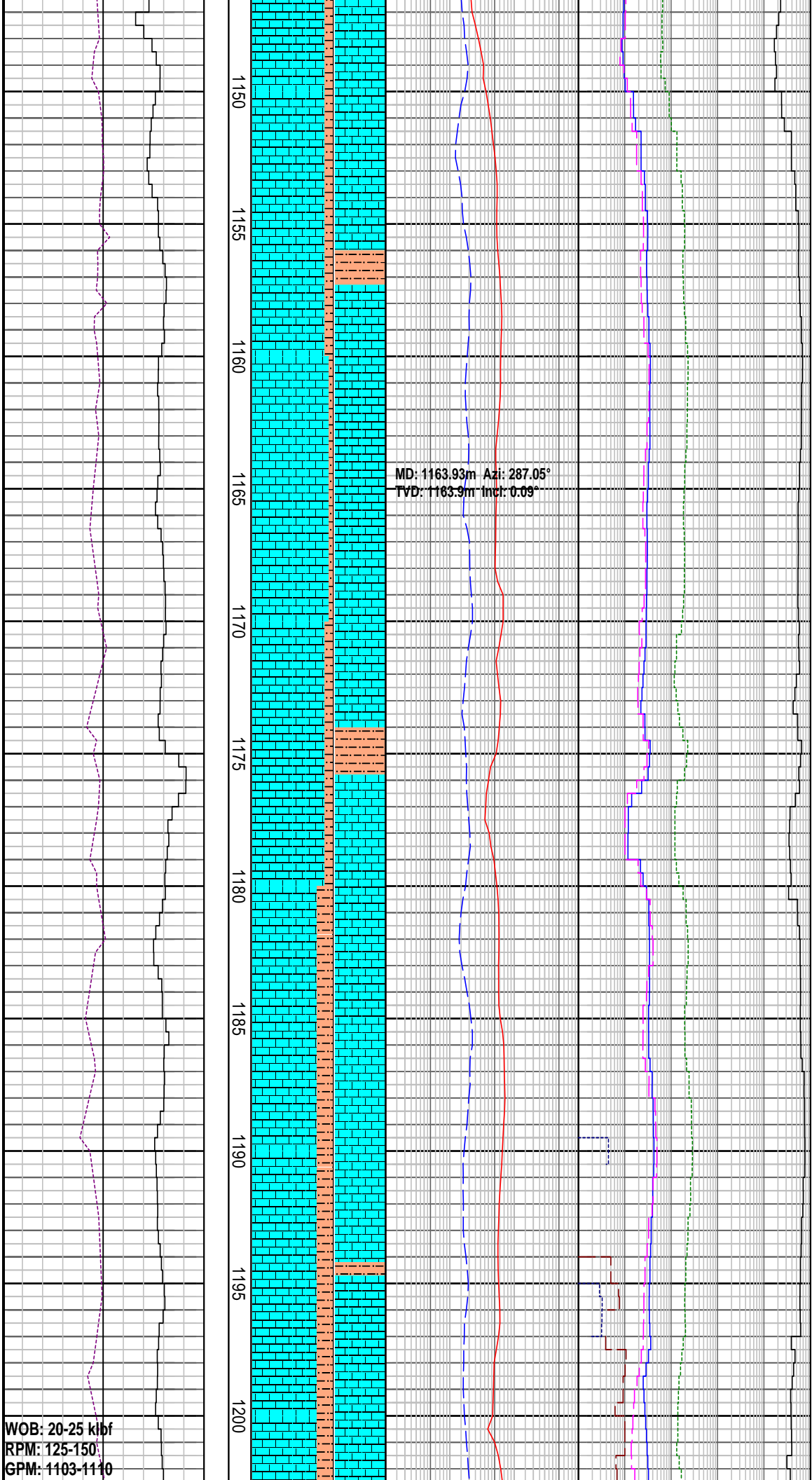
MD: 1134.08m Azi: 324.64°
TVD: 1134.1m Incl: 0.13°

Calc...
sbrndd-blky, mod hd, f gr, mod srt,
trnsl sb ang

CALCULITITE lt bl gy-olv gy, sft-mod
sft, mod hd, frm i/p, sbbky-blky, silty
md, wll srt, com calcs st, lam, pr inf
por

CALCULITITE lt bl gy-olv gy, sft-mod
sft, mod hd, frm i/p, sbbky-blky, silty
md, wll srt, com calcs st, lam, pr inf
por, tr SLTST

SILTSTONE lt brn-dk brn, frm-mod
hd, blky, mod calc



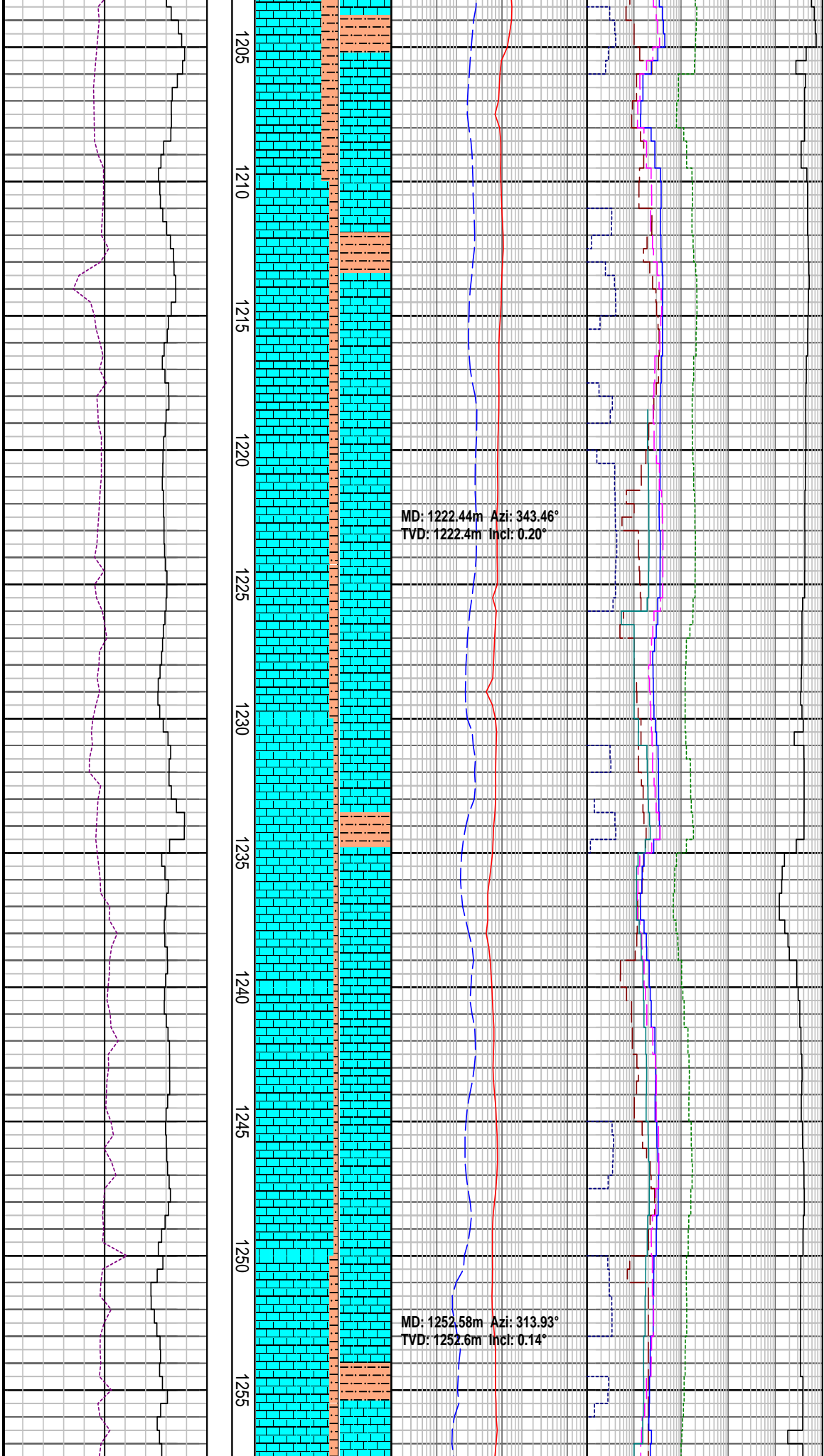
CALCULITITE lt bl gy-olv gy, sft-mod sft, mod hd, frm i/p, sbbky-blky, silty md, wll srt, com calcs sit, lam, pr inf por

SILTSTONE lt brn-dk brn, frm-mod hd, blky, mod calc

CALCULITITE lt bl gy-olv gy, sft-mod sft, mod hd, frm i/p, sbbky-blky, silty md, wll srt, com calcs sit, com lam, pr inf por

WOB: 20-25 kbf
RPM: 125-150
GPM: 1103-1110

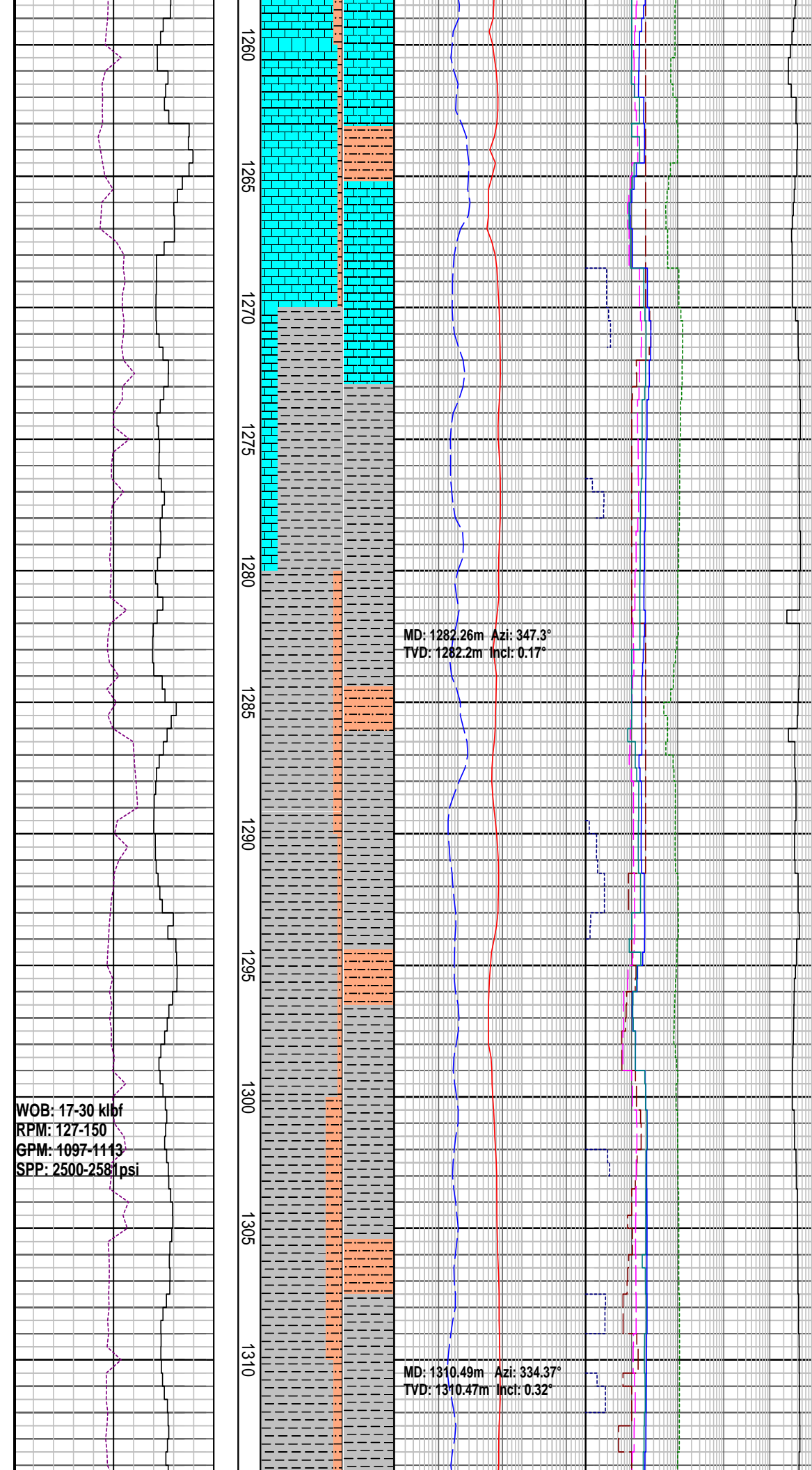
SPP: 2435-2508 psi



SILTSTONE: lt brn-dk brn, frm-mod hd, blkly, mod calc

CALCULITITE lt bl gy-olv gy, sft-mod sft, mod hd, frm i/p, sbbkly-blky, silty md, wll srt, com cals slt, comm lam, pr inf por

CALCULITITE: lt gy-med gy, lt bl gy-olv gy, sft-mod sft, amorp, frm i/p, sbbkly-blky, disp i/p, silty md, wll srt, com lam, pr inf por

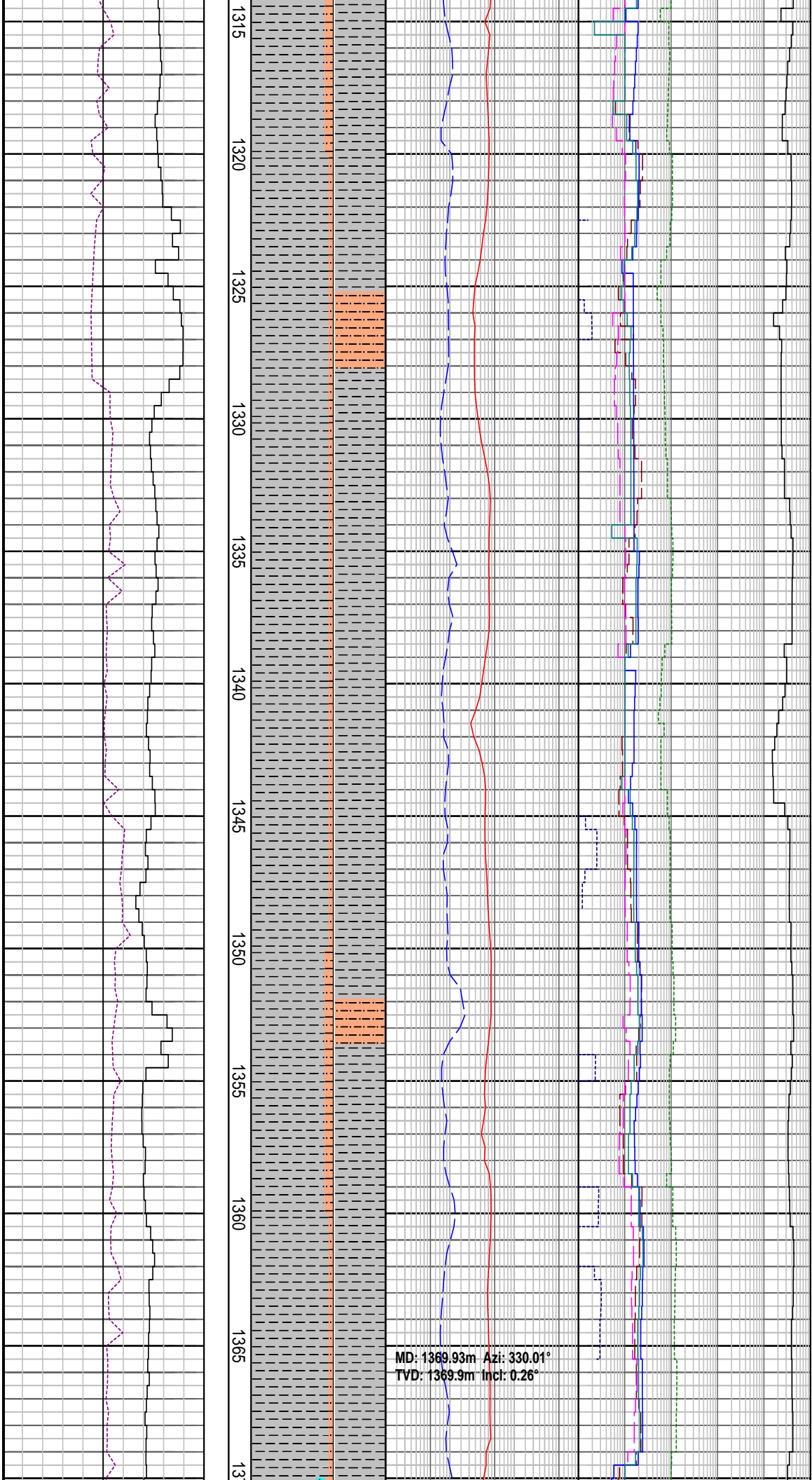


SILTSTONE: m gy-grnsh gy, frm-hd, blky, arg mod calc, tr dk gr-blk vf-med sbrndd glau

CALCAREOUS CLAYSTONE: dk gy-dk olv gy, sft-mod frm, sbblky-blky, sli sily, mod-hi calc, tr mic flks

SILTSTONE: m gy-grnsh gy, frm-hd, blky, arg mod calc

CALCAREOUS CLAYSTONE: dk gy-dk olv gy, sft-mod frm, sbblky-blky, sli sily, mod-hi calc, tr mic flks, grdg to Clct

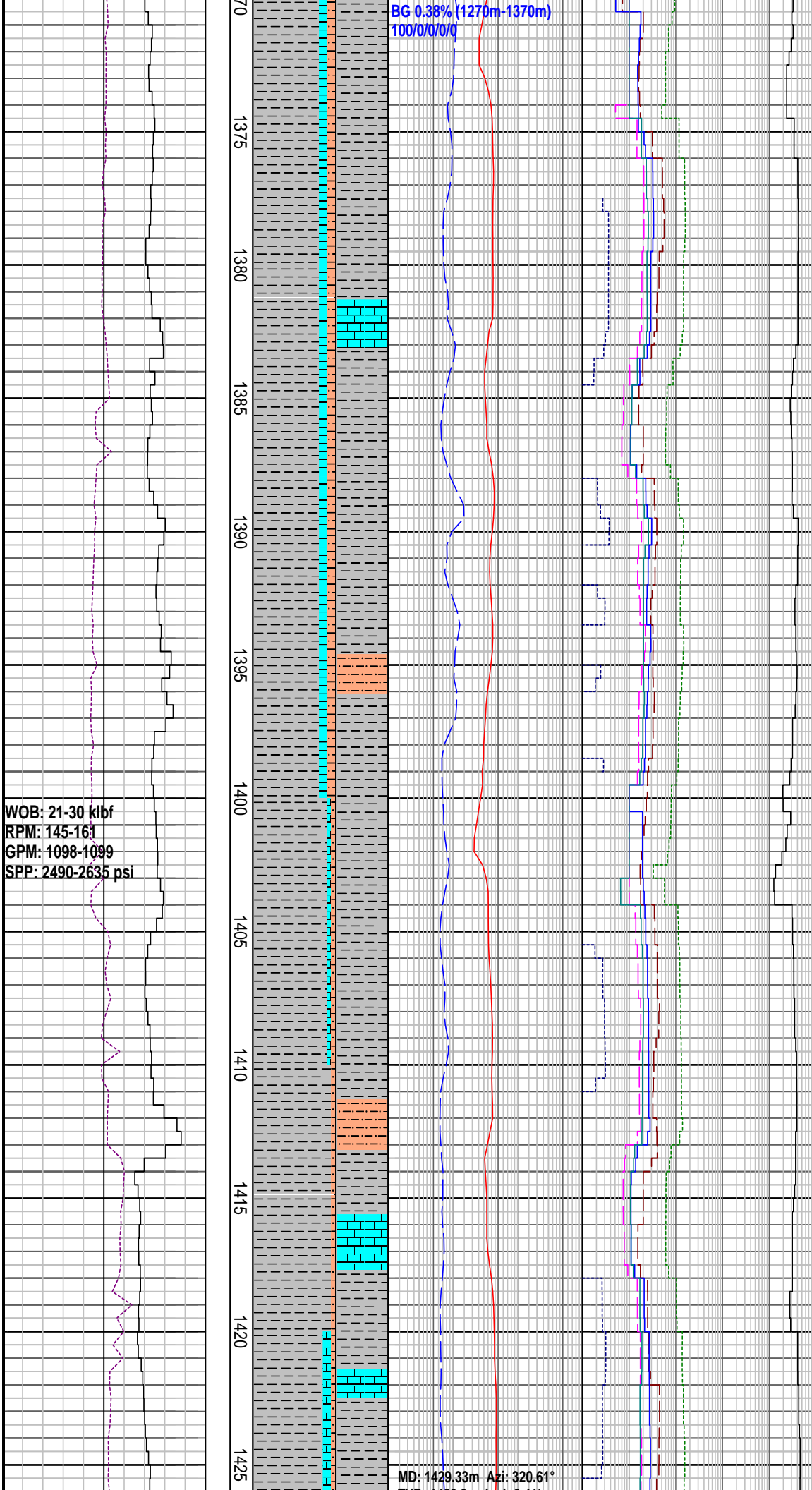


CALCAREOUS CLAYSTONE: dk gy-dk olv gy, sft-mod frm, sbblky-blky, sli slty, mod-hi calc, tr mic filks, grdg to Clclt

SILTSTONE: m gy-gn gy, frm-hd, blk, arg mod calc

MD: 1369.93m Azi: 330.01°
 TVD: 1369.9m Incl: 0.26°

CALCAREOUS CLAYSTONE: dk gy-dk olv gy, sft-mod frm, sbblky-blky, sli slty, mod-hi calc, tr mic filks, grdg to Clclt



BG 0.38% (1270m-1370m)
100/0/0/0/0

WOB: 21-30 klbf
RPM: 145-161
GPM: 1098-1099
SPP: 2490-2635 psi

MD: 1429.33m Azi: 320.61°

LIMESTONE: clr hd xln cal wh-gy sft
amor LS

CALCAREOUS CLAYSTONE: dk gy-dk
olv gy, sft-mod frm, sbblky-blky, sli
slty, mod-hi calc, tr mic filks, grdg to
Clct

LIME STONE : dk gy, mod hd Ls, tr sh
frag

1370
1375
1380
1385
1390
1395
1400
1405
1410
1415
1420
1425

1430
1435
1440
1445
1450
1455
1460
1465
1470
1475
1480

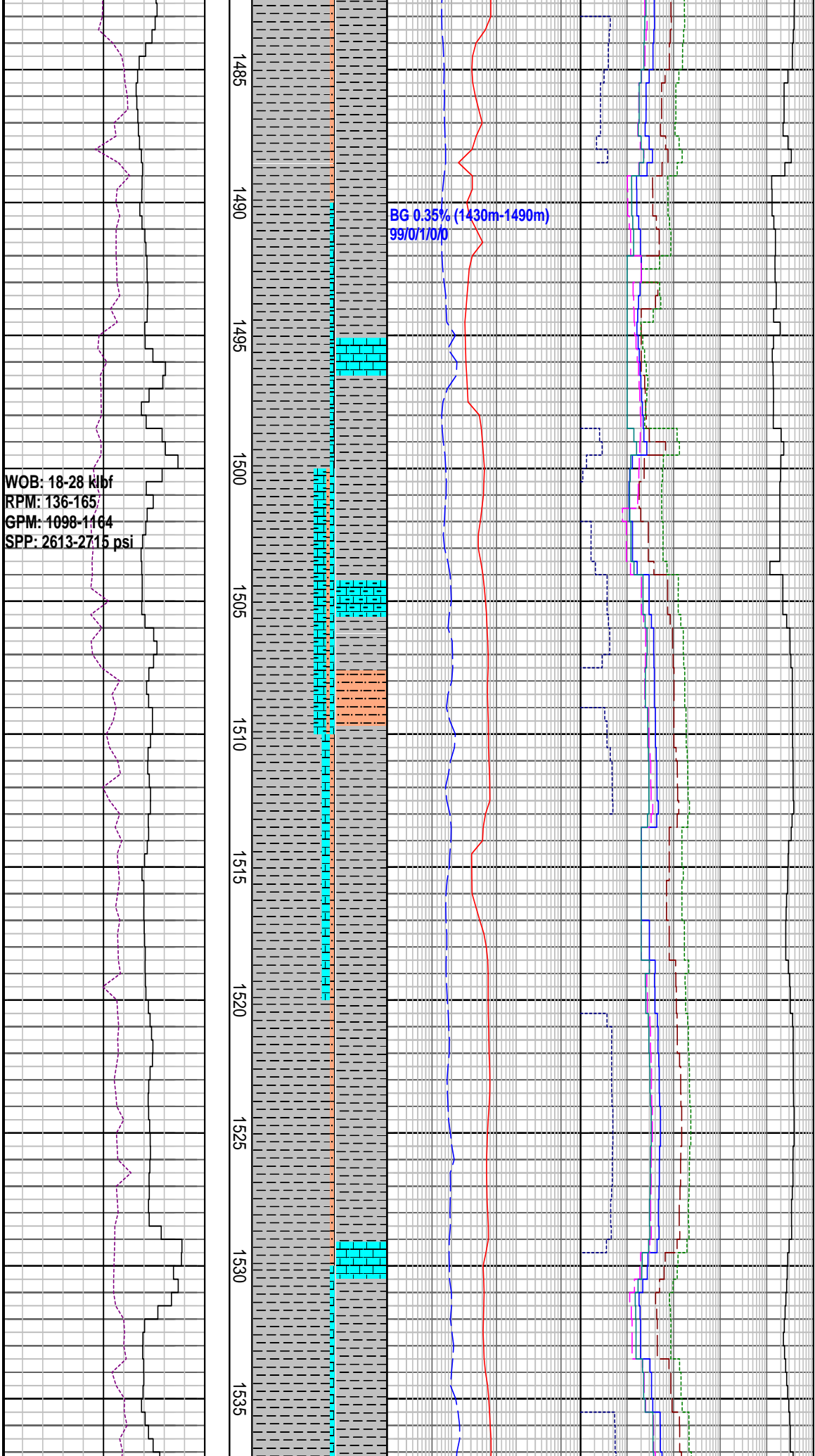
TVD: 1429.3m Incl: 0.41°
BG 0.37% (1370m-1430)
99/0/1/0/0

MD: 1458.16m Azi: 335.88°
TVD: 1458.1m Incl: 0.52°

LIME STONE : dk gy, mod hd Ls, tr sh
frag

SILTSTONE: m gy-gnsh gy, frm-hd,
blky, arg mod calc, tr blk carb lam

CALCAREOUS CLAYSTONE: dk gy-dk
olv gy, sft-mod frm, sbblky-blky, sli
silty, mod-hi calc, tr mic flks, grdg to
Clct



WOB: 18-28 kbf
RPM: 136-165
GPM: 1098-1164
SPP: 2613-2715 psi

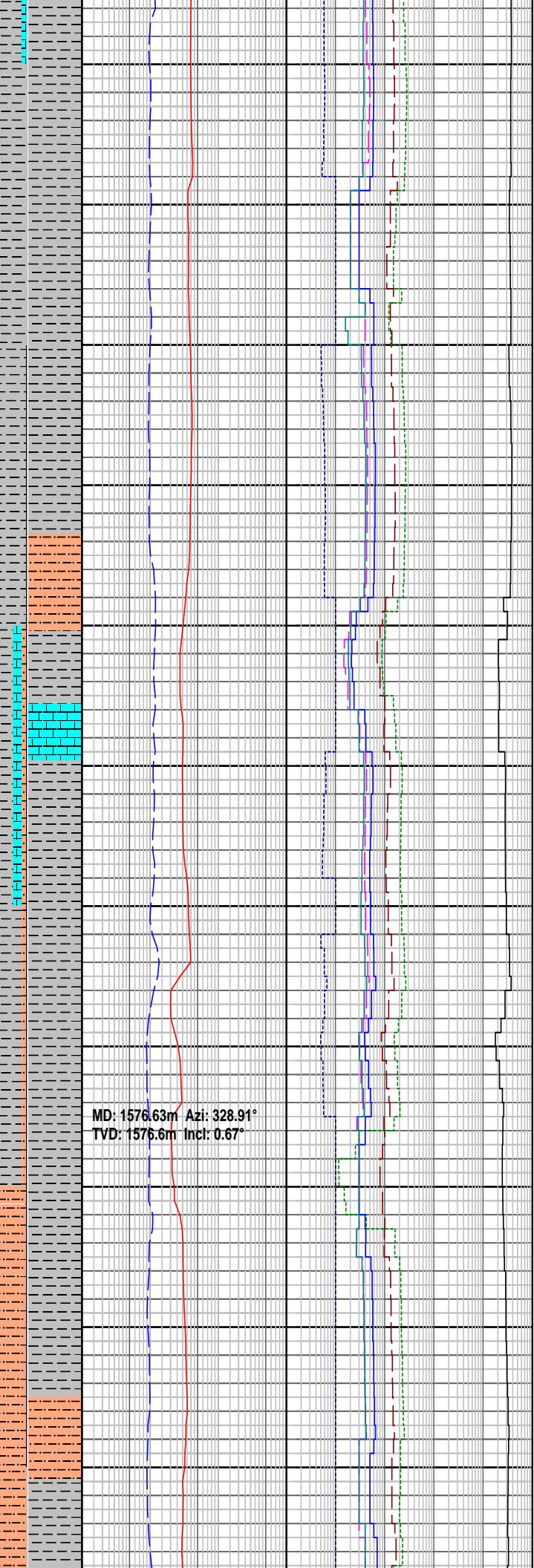
BG 0.35% (1430m-1490m)
99/0/1/0/0

CALCARENITE : yel gy-lt olv gy, sbrndd-blky, mod hd, f gr, trnsl sb ang

LIME STONE : dk gy, mod hd Ls, tr sh frag

LIME STONE : gy yel, mod hd Ls, xln calc mnr wh sft amor Ls, tr shl frag

1540
1545
1550
1555
1560
1565
1570
1575
1580
1585
1590



CALCAREOUS CLAYSTONE: dk gy-cl olv gy, sft-mod frm, sbblky-blky, sli slty, mod-hi calc, tr mic flks, grdg to Clclt

SILTSTONE: m gy-gnsh gy, frm-hd, blky, arg mod calc, tr blk carb lam

MW: 9.0 ppg	FV: 53
PV: 19	YP: 32
Gels: 14/24/29	pH: 8.5

MD: 1576.63m Azi: 328.91°
TVD: 1576.6m Incl: 0.67°

SILTSTONE: m gy-gnsh gy, frm-hd, blky, arg mod calc, tr blk carb lam

WOB: 21-28 klbf
RPM: 78-177
GPM: 701-1115
SPP: 1501-2787 psi

1595
1600
1605
1610
1615
1620
1625
1630
1635
1640
1645

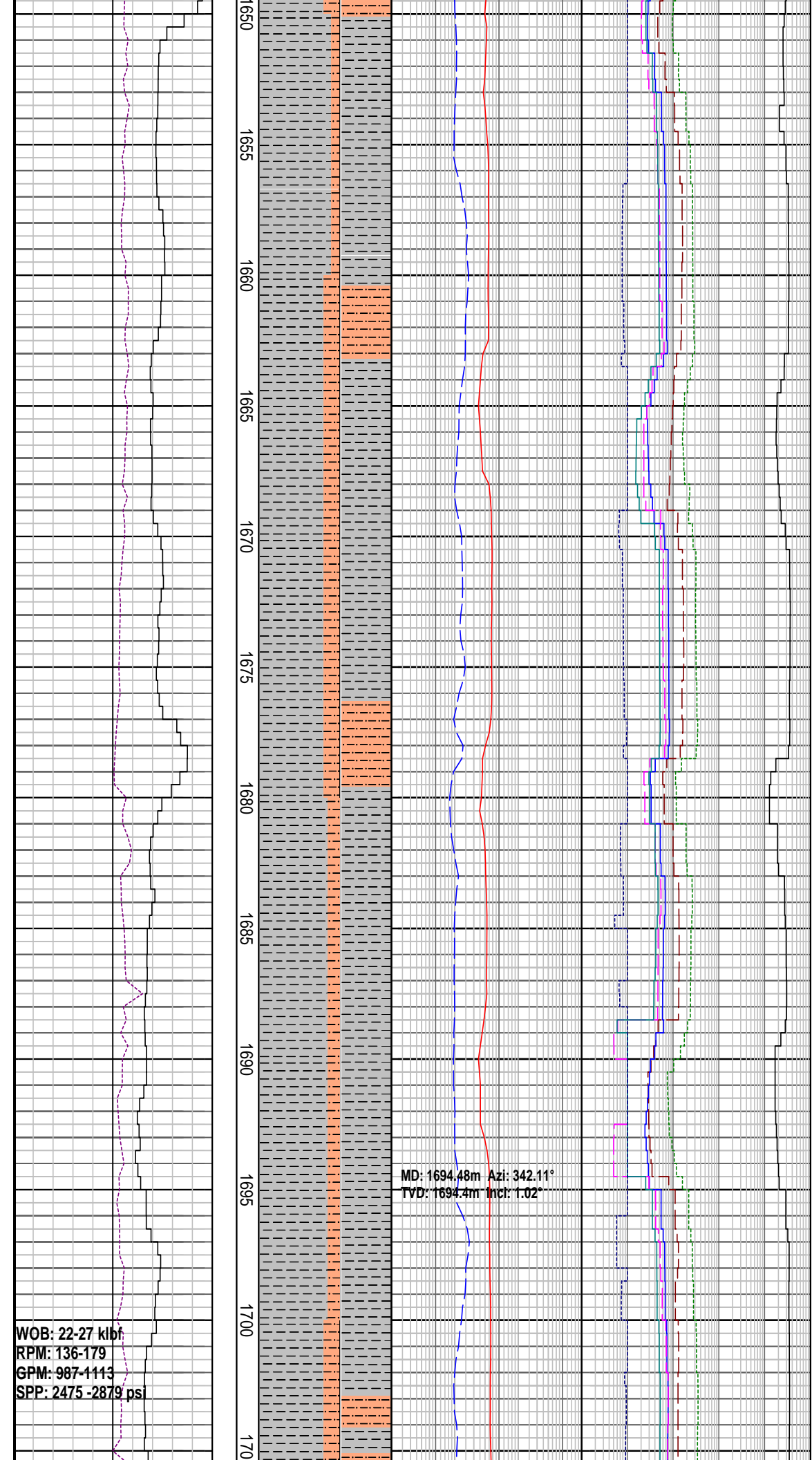
MD: 1635.30m Azi: 340.80°
TVD: 1635.3m Incl: 0.88°

CALCAREOUS CLAYSTONE: dk gy-dk
olv gy, sft-mod frm, sbbiky-blky, sli
sly, mod-hi calc, tr mic flks, grdg to
Clct

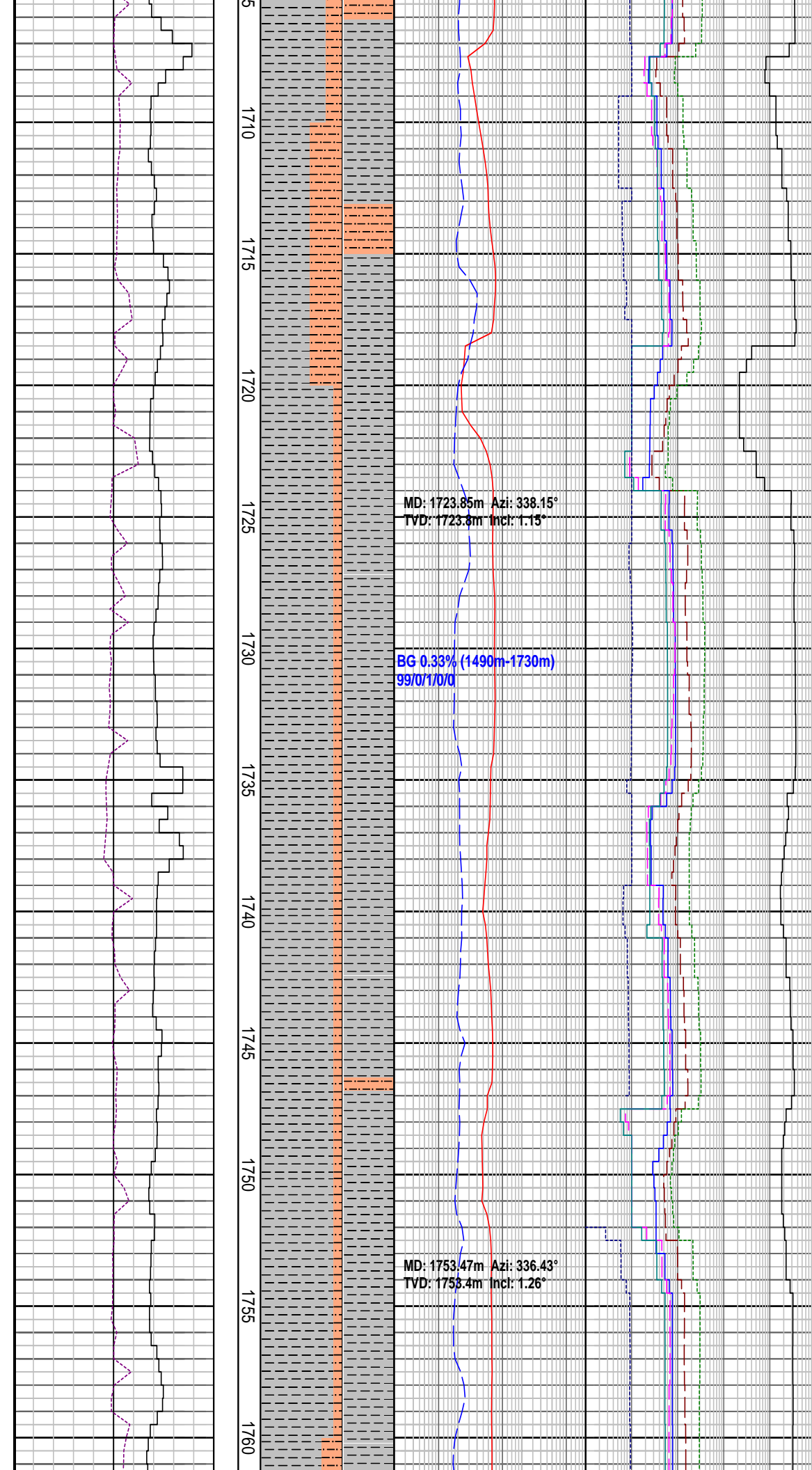
SILTSTONE: m gy-gnsh gy, frm-hd,
blky, arg mod calc, tr blk carb lam

CALCARENITE : yel gy-lt olv gy,
sbrn-dd-blky, mod hd, f gr, trnsl sb
ang

SILTSTONE: m gy-gnsh gy, frm-hd,
blky, arg mod calc, tr blk carb lam



CALCAREOUS CLAYSTONE: dk gy-dk
olv gy, sft-mod frm, sbbky-blky, sli
sly, mod-hi calc, tr mic flks, grdg to
Clct



SILTSTONE: m gy-gnsh gy, frm-hd, blk, arg mod calc, tr blk carb lam

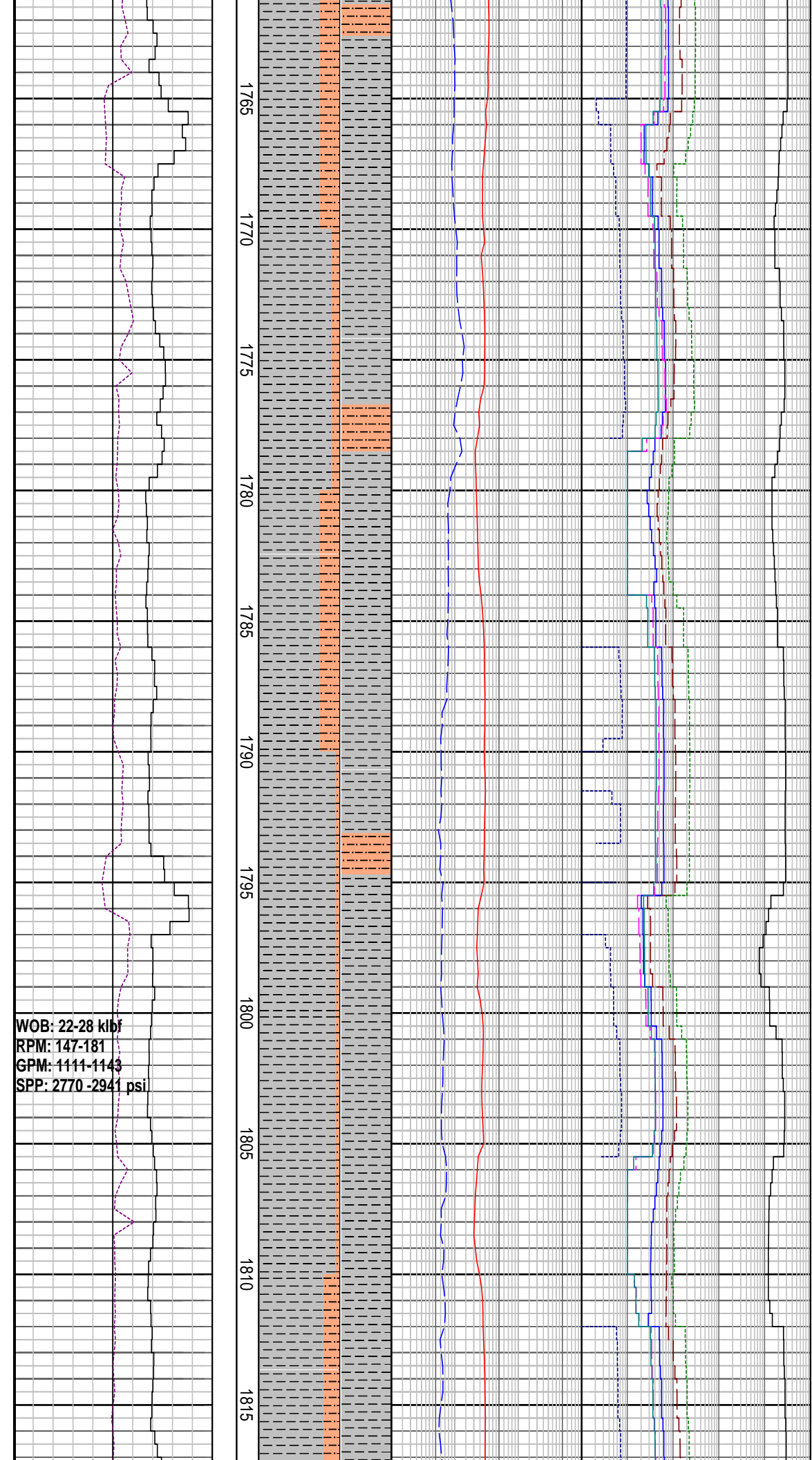
CALCAREOUS CLAYSTONE: m lt gy-m gy, sft-mod frm, sbblky-blky, sli silty, mod-hi calc, tr mic flks, com grd to clclt

SILTSTONE: m gy-gnsh gy, frm-hd, blk, arg mod calc, tr blk carb lam

MD: 1723.85m Azi: 338.15°
TVD: 1723.8m Incl: 1.15°

BG 0.33% (1490m-1730m)
99/0/1/0/0

MD: 1753.47m Azi: 336.43°
TVD: 1753.4m Incl: 1.26°

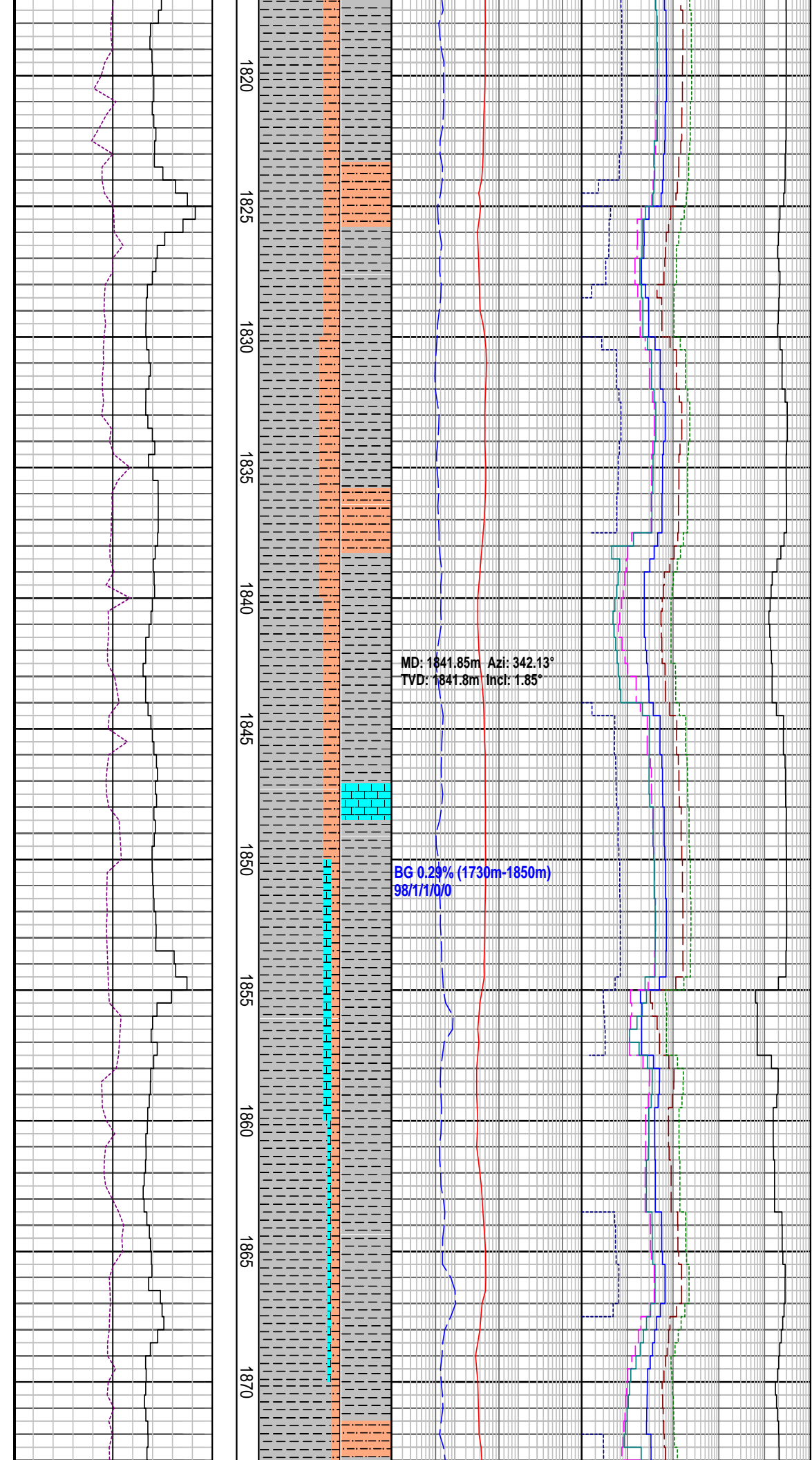


blky, arg mod calc, tr blk carb lam, tr pyr

SILTSTONE: m gy-gnsh gy, frm-hd, blky, arg mod calc, tr blk carb lam, tr pyr

CALCAREOUS CLAYSTONE: m lt gy-m gy, sft-mod frm, sbblky-blky, sli slty, mod-hi calc, tr mic flks, com grdg to clcIt

MW: 9.1 ppg	FV: 57
PV: 15	YP: 32
Gels: 13/22/26	pH: 8.5



SILTSTONE: m gy-gnsh gy, frm-hd, blk, arg mod calc, tr blk carb lam

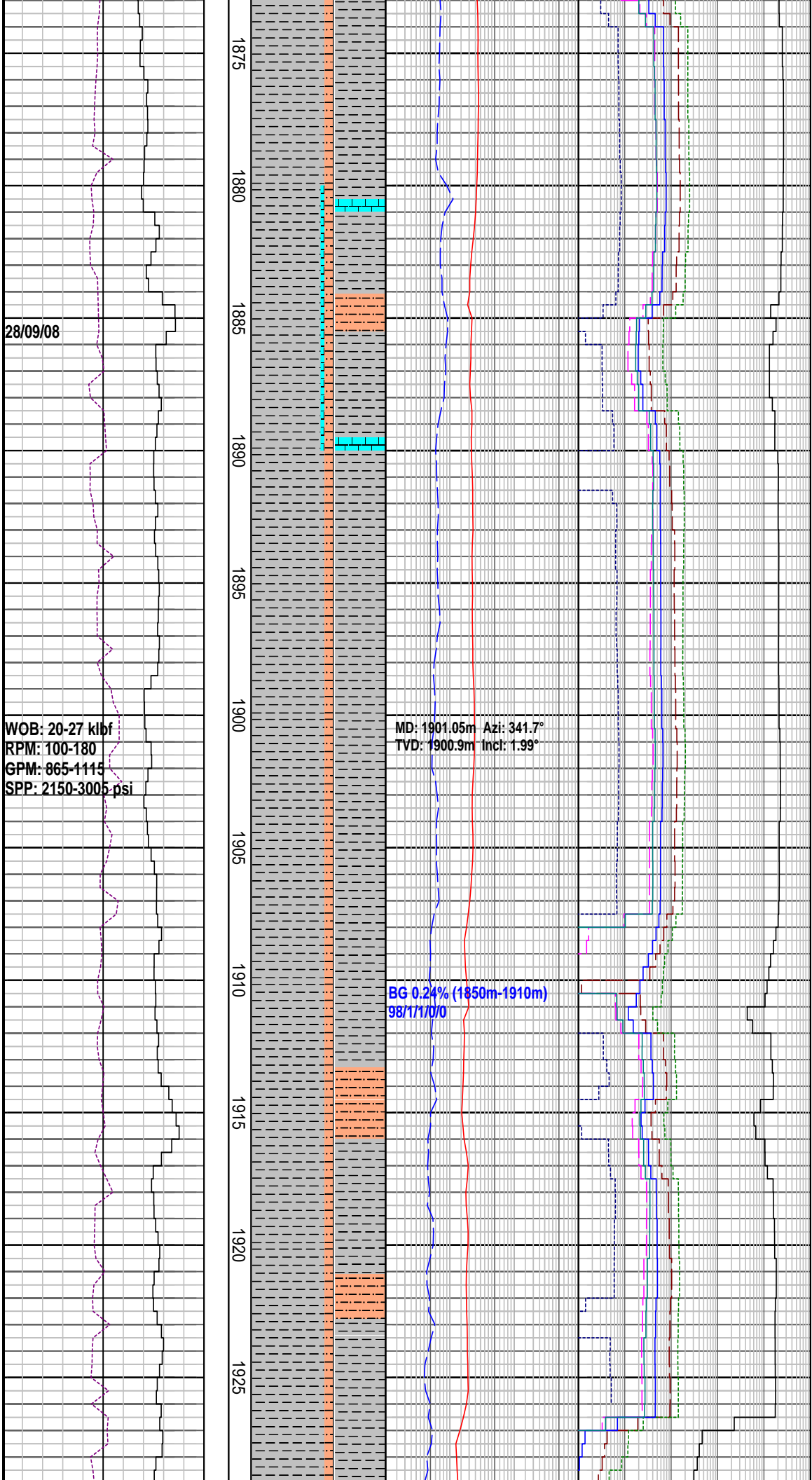
SILTSTONE: m gy-gnsh gy, frm-hd, blk, arg mod calc, tr blk carb lam

MD: 1841.85m Azi: 342.13°
TVD: 1841.8m Inc: 1.85°

BG 0.29% (1730m-1850m)
98/111/0/0

CALCARENITE: wh pl gy-gnsh gy, sbbkly, sft-frm-amor hd, f gr, mod srt, opq sbang-sbrndd cak, tr com gr f-med gr glau, pr inf por

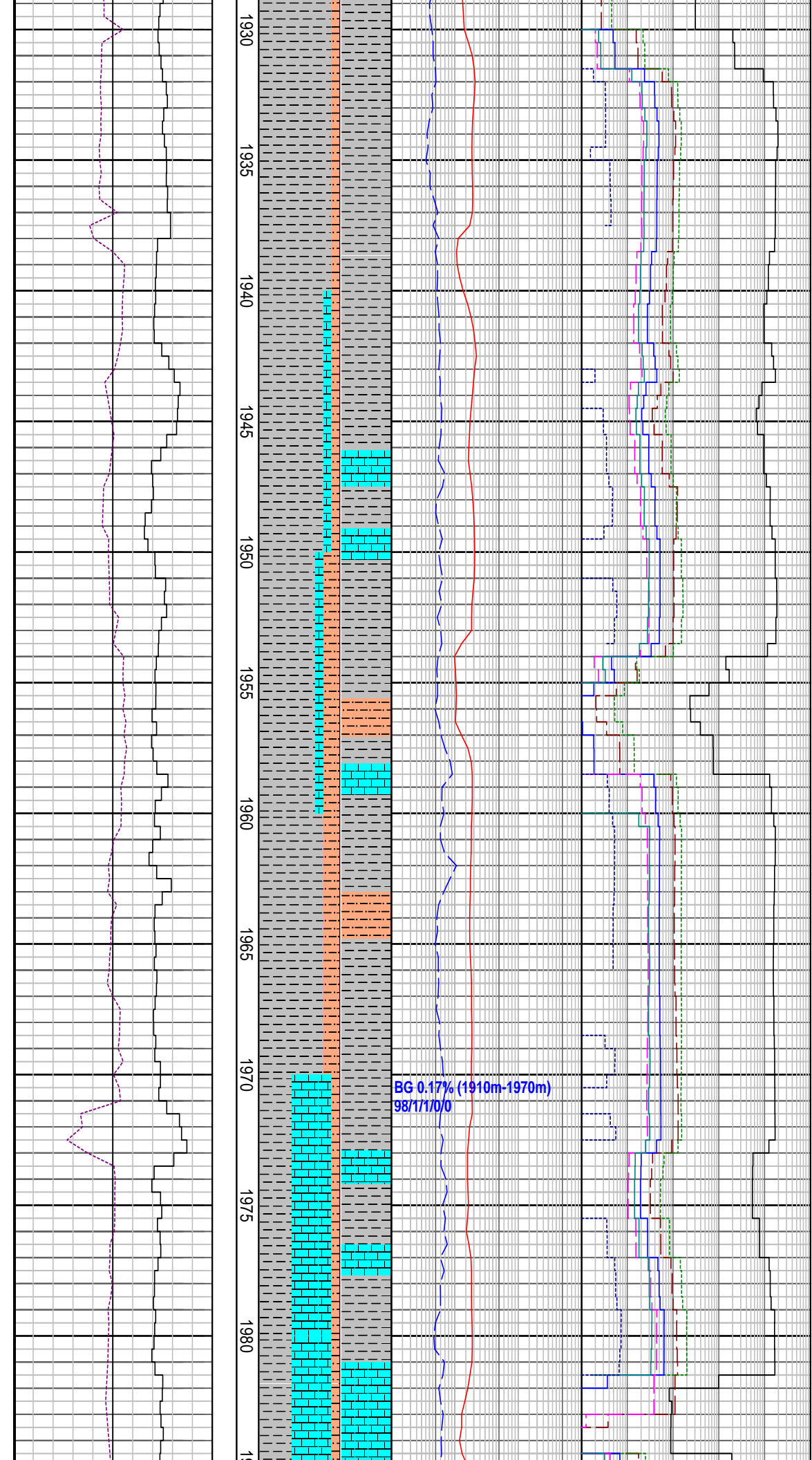
CALCAREOUS CLAYSTONE: m lt gy-m gy, mod frm, sbbkly-blk, sli slty, tr carb flks, mod-hi calc, com arda to cltct. tr foam



CALCARENITE: wh pl gy-gnsh gy, sbbkly, sft frm-amor hd, f gr, mod srt, opq sbang-sbrndd cak, tr com gr f-med gr glau, pr inf por

CALCAREOUS CLAYSTONE: med lt gy-brn gy, mod frm, sbbkly-blky, sli sily, tr mic flks, tr carb flks, mod-hi calc, grd to clclt, tr foam

SILTSTONE: m gy-gnsh gy, frm-hd, blky, arg mod-hi calc, tr blk carb lam, tr pyr



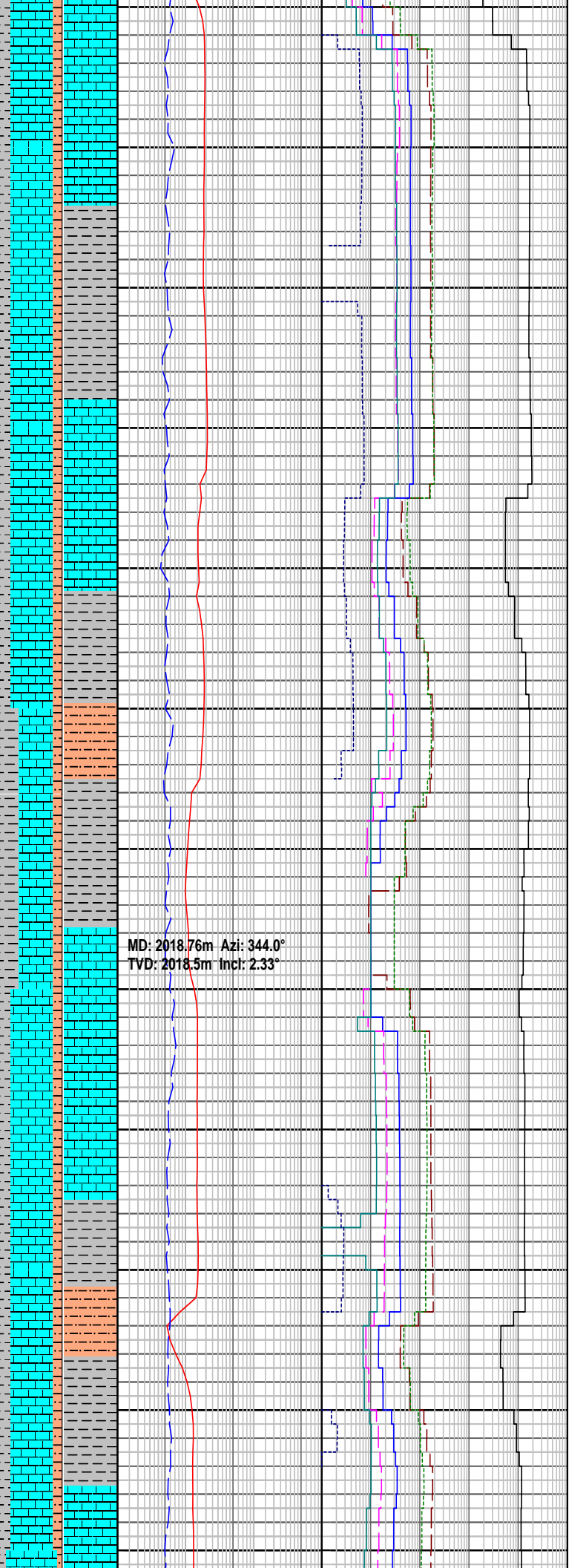
CALCARENITE: lt olv-gy, gnsh gy, sbbky agg, mod hd, v f gr, mod srt, semi trnsl-opq, sbang cal, cal cmt, pr inf por

SILTSTONE: m gy-grnsh gy, frm-hd, blk arg, mod-hi calc, tr blk carb lam, tr pyr

CALCULITITE: lt olv gy-lt gy, sft-frm, sbbky, com cal slt

WOB: 20-25 klf
RPM: 141-180
GPM: 1095-1116
SPP: 2735-3080 psi

1985
1990
1995
2000
2005
2010
2015
2020
2025
2030
2035
2040



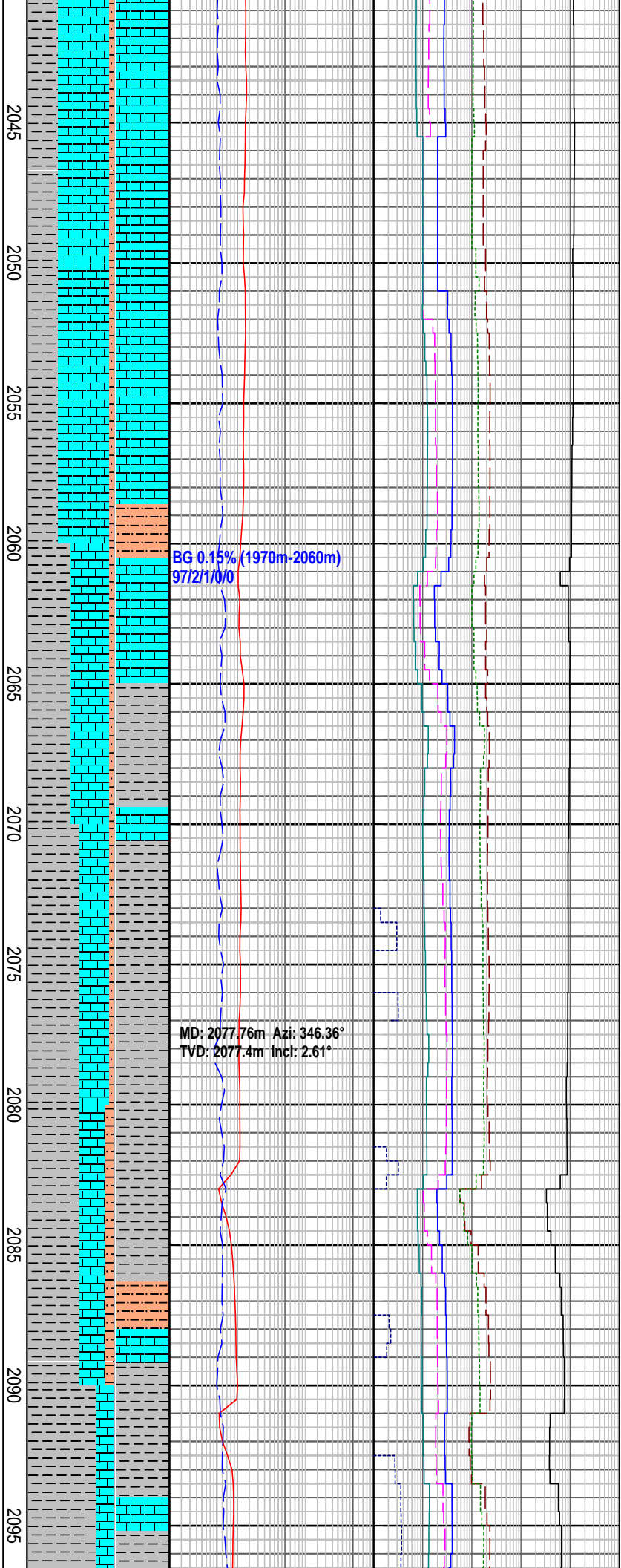
CLAYSTONE: m lt gy-m gy, mod frm, sbbky-blky, tr mic, tr carb flks, mod-hi calc i/p, tr foam

MW: 9.3 ppg	FV: 55
PV: 16	YP: 33
Gels: 13/26/29	pH: 8.5

CALCULITITE: lt olv gy-lt gy, sft-frm, sbbky, com cal slit

SILTSTONE: m gy-gnsh gy, sft i/p, frm-hd, blk, arg mod-hi calc, tr blk carb lam

CLAYSTONE : m lt gy-m gy, mod frm, sbbky-blky, sli slit, tr mic flks, tr carb flks, mod-hi calc, tr blk carb lam



CALCULITITE: lt olv gy-lt gy, sft frm, sbbkly, com cal slit

SILTSTONE: m gy-gnsh gy, frm-hd, blkly, arg, mod-hi calc, tr blk carb lam

CLAYSTONE: m lt gy-m gy, mod frm, sbbkly-blkly, sli slty, tr mic, tr carb flks, mod-hi calc i/p, grdg to Clclt, tr foam

CLAYSTONE: m lt gy-m gy, mod frm, sbbkly-blkly, sli slty, tr mic, tr carb flks, mod-hi calc i/p, grdg to Clclt, tr foam

BG 0.15% (1970m-2060m)
97721700

MD: 2077.76m Azi: 346.36°
TVD: 2077.4m Incl: 2.61°

WOB: 16-27 kbf
RPM: 145-180
GPM: 1110-1117
SPP: 3065-3167 psi

2100
2105
2110
2115
2120
2125
2130
2135
2140
2145
2150

BG 0.10% (2060m-2100m)
95/2/2/1/0

MD: 2104.62m Azi: 346.40°
TVD: 2104.3m Incl: 2.53°

BG 0.09% (2100m-2127m)
97/4/3/1/0

SILTSTONE: m gy-gnsh gy, frm-hd, blk, arg, mod-hi calc, tr blk carb lam

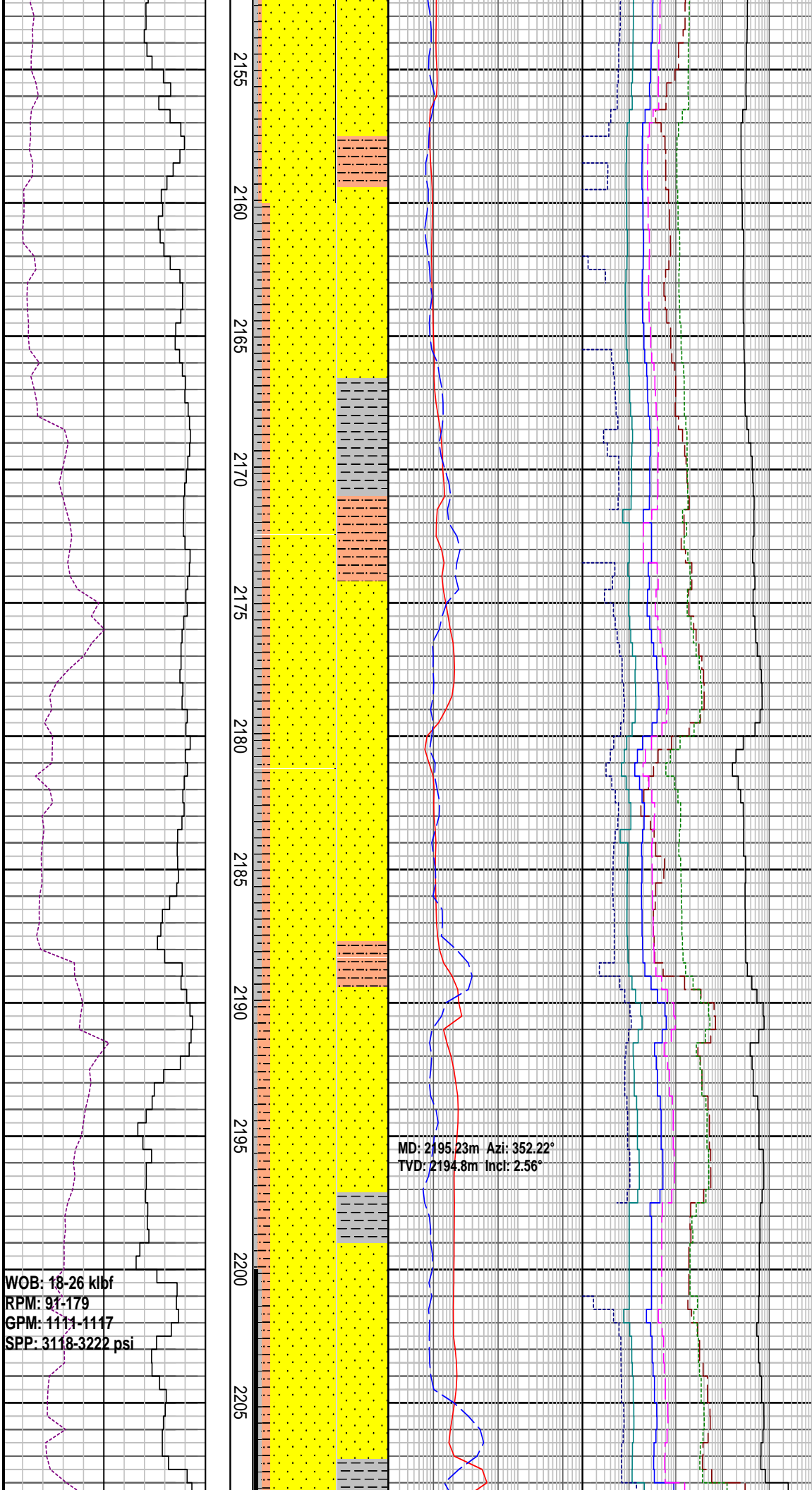
GLAUCONITIC SANDSTONE: wh-lt gy, gnsh gy, frm-hd, blk, v f-m, mod srt, sbsng qtz, com dk gr f-m gr, sbang-wl rndd galu in frm-hd slty mtrx w/calc cmt, pr vis por, com lse glau gr

COAL : dk brn-blk, mod hd-hd, ang, planar-conch frac

SANDSTONE: wh-lt gy, yelsh gy-mod yel, lse, occ agg, f gr, m-crs granule, mod-wl srt, sbrndd-rndd, sbsph, trnsl-fros qtz, broken i/p, tr lse f-granule pyr, tr pyr qtz

CLAYSTONE: lt-m gy, mod frm-hd, sbblk-bkly, tr carb flks, tr mic flks, mod calc

SANDSTONE: wh-lt gy, lse, occ agg, f gr, m-crs granule, mod-wl srt, sbrndd-rndd, sbsph, trnsl-fros qtz, broken i/p, tr pyr qtz



SILTSTONE: mod brn-olv gy, frm-hd, blk, arg, n calc

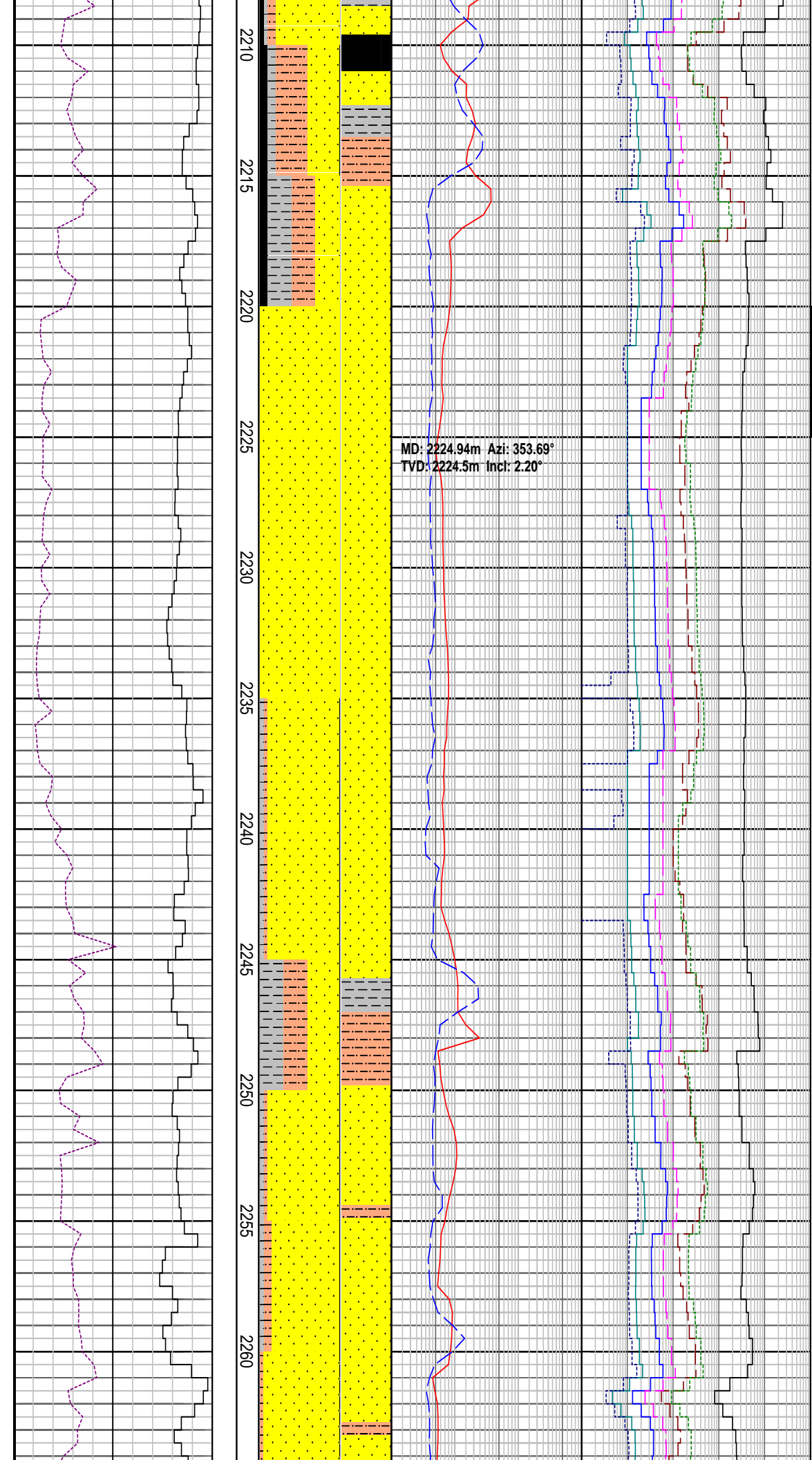
CLAYSTONE: lt-m gy, mod frm-hd, sbbkly-blky, tr carb flks, tr mic flks, mod calc

SANDSTONE: wh-lt gy, yelsh gy-mod yel, lse, occ agg, f gr, m-crs granule, mod-wl srt, sbrndd-rndd, sbsph, trnsf-fros qtz, broken i/p, tr pyr qtz

SILTSTONE: mod brn-olv gy, frm-hd, blk, arg, n calc

CLAYSTONE: lt-m gy, mod frm-hd, sbbkly-blky, tr carb flks, tr mic flks, mod calc

SANDSTONE: wh-lt gy, yelsh gy-mod yel, lse, occ agg, f gr, m-crs granule, mod-wl srt, sbrndd-rndd, sbsph, trnsf-fros qtz, broken i/p, tr lse f-granule pyr, tr pyr qtz



MD: 2224.94m Azi: 353.69°
 TVD: 2224.5m Incl: 2.20°

COAL : dk brn-blk, mod hd-hd, ang,
 planar-conch frac

SILTSTONE: mod olv brn-dk gy,
 frm-hd, arg-carb, n calc

SANDSTONE: wh-lt gy, yelsh gy-mod
 yel, lse, occ agg, f gr, m-crs granule,
 mod-wl srt, sbrn-dd-rn-dd, sbsph,
 trnsl-fros qtz, broken i/p, tr pyr

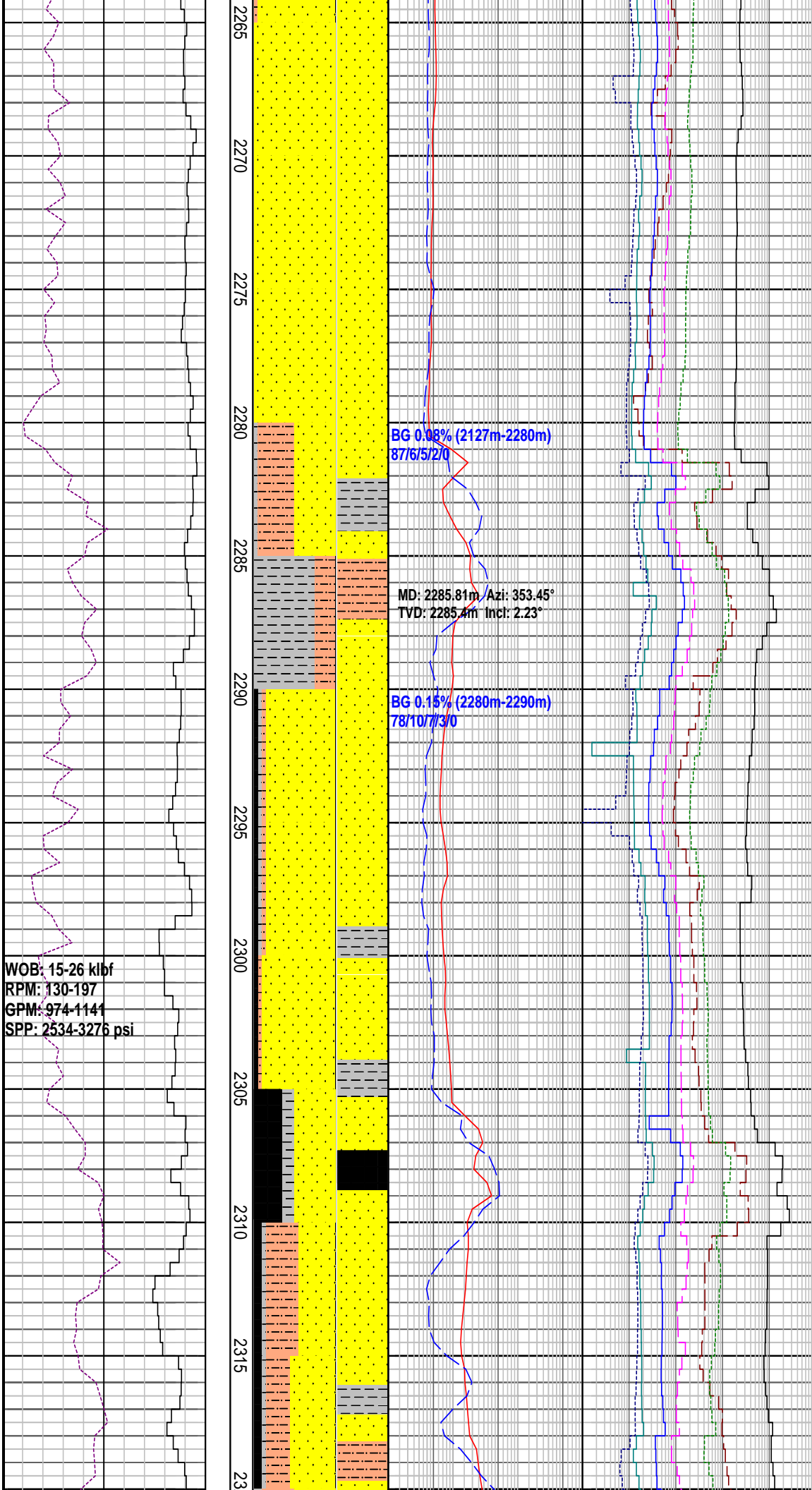
SHOWS (2220m-2225m): Tr mod brt
 yel-gr patchy fluor from vis blk
 liquid bitumen in silty vf sst. Very
 fast strmg brt grnsh wh cut fluor.
 Wide spotty bright gr-yel fluor resi
 ring, pl brn vis residue.

SANDSTONE: wh-lt gy, yelsh gy, lse,
 occ agg, f gr, m-crs granule, mod-wl
 srt, sbrn-dd-rn-dd, sbsph, trnsl-fros qtz
 broken i/p, tr pyr qtz

SILTSTONE: mod olv brn-dk gy,
 frm-hd, arg-carb, n calc

SANDSTONE: wh-lt gy, yelsh gy-mod
 yel, lse, occ agg, f gr, m-crs granule,
 mod-wl srt, sbrn-dd-rn-dd, sbsph,
 trnsl-fros qtz, broken i/p, tr pyr qtz

MW: 9.3 ppg	FV: 82
PV: 23	YP:38
Gels: 11/19/25	pH: 8.5



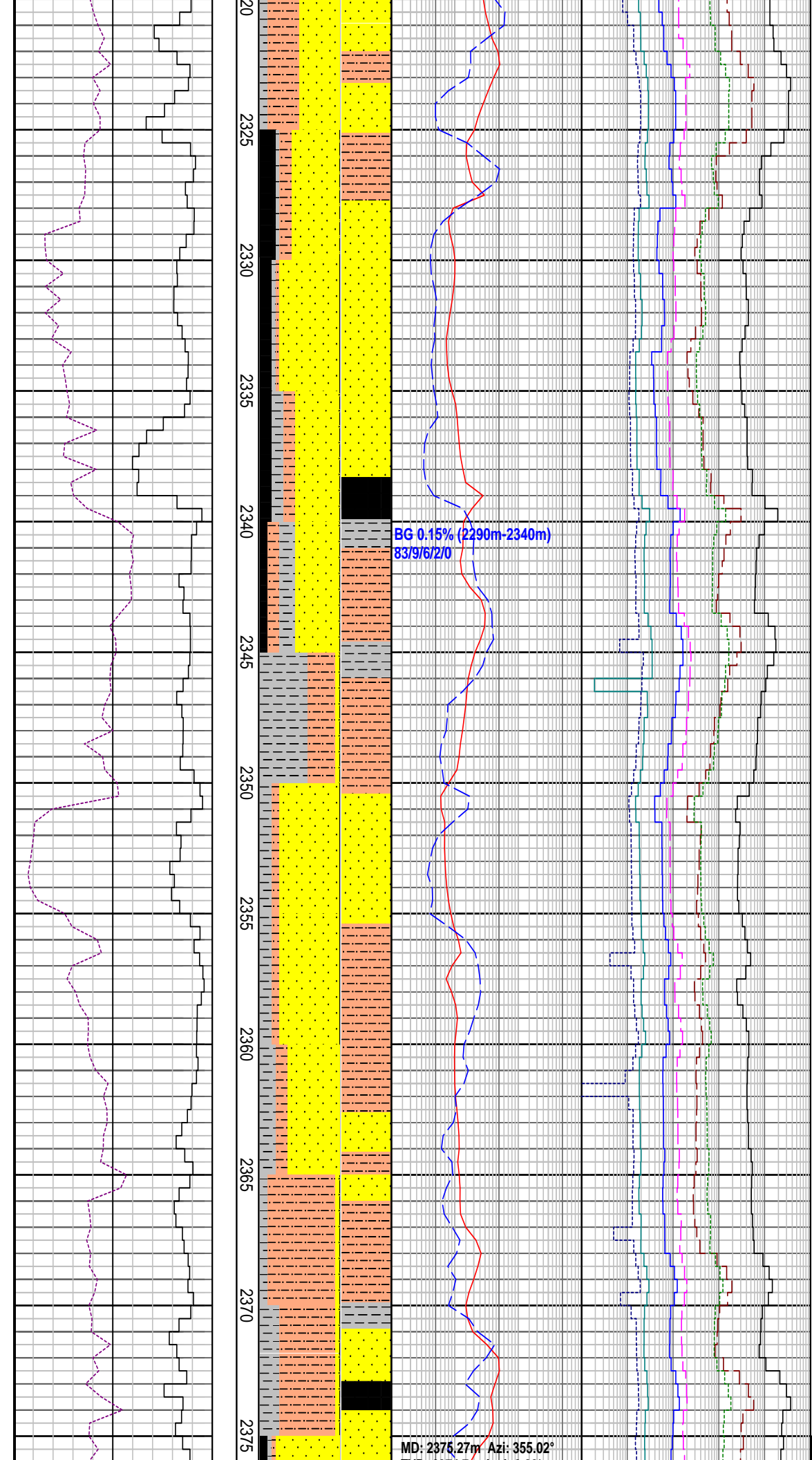
CLAYSTONE: lt-m gy, mod frm-hd, sbbkly-blky, tr carb flks, tr mic flks, mod calc

SILTSTONE: mod brn-olv gy, frm-hd, blk, arg, n calc

SANDSTONE: wh-lt gy, lse, crs-granule, mod-wl srt, sbrndd-rndd, sbsph trnsl-fros qtz, broken i/p

COAL : dk brn-blk, hd, ang, planar-conch frac

SANDSTONE: wh-lt gy, lse, m-crs, mod-wl srt, sbrndd-rndd, sbsph, trnsl-fros qtz, broken i/p



SILTSTONE: mod olv brn-dk gy, frm-hd, blk, arg-carb, n calc

SANDSTONE: wh-lt gy, lse, m-crs, mod-wl srt, sbrnrd-rnrd, sbsph, trnsl-fros qtz, broken i/p

COAL : dk brn-blk, hd, ang, planar-conch frac

CLAYSTONE: lt gy- m gy, mod frm, sbbkly-blky, sli slit, tr mic, tr carb flks, mod calc

SILTSTONE: mod olv brn-dk gy, frm-hd, blk, arg-carb, n calc

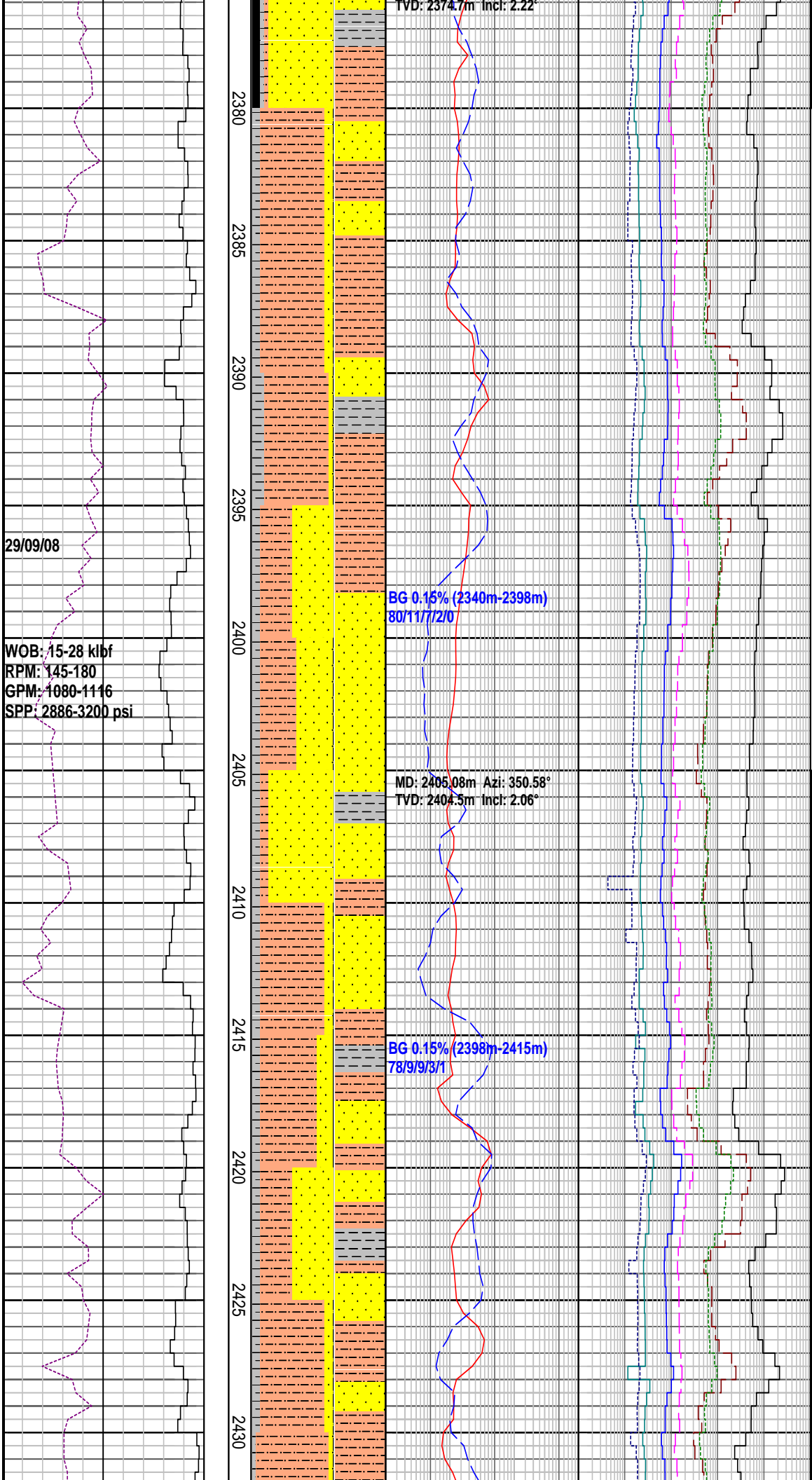
SANDSTONE: wh-lt gy, lse, m-crs, mod-wl srt, sbrnrd-rnrd, sbsph, trnsl-fros qtz, broken i/p

SANDSTONE: wh-lt gy, lse, m-crs, mod-wl srt, sbrnrd-rnrd, sbsph, trnsl-fros qtz, broken i/p

SILTSTONE: mod olv brn-dk gy, frm-hd, blk, arg-carb, n calc

MW: 9.5 ppg	FV: 58
PV: 18	YP: 31
Gels: 12/20/23	pH: 8.5

MD: 2375.27m Azi: 355.02°



TVD: 2374.7m Incl: 2.22°

2380
2385
2390
2395
2400
2405
2410
2415
2420
2425
2430

29/09/08
WOB: 15-28 klbf
RPM: 145-180
GPM: 1080-1116
SPP: 2886-3200 psi

BG 0.15% (2340m-2398m)
80/11/7/2/0

MD: 2405.08m Azi: 350.58°
TVD: 2404.5m Incl: 2.06°

BG 0.15% (2398m-2415m)
78/9/9/3/1

SANDSTONE: gysh yel-mod olv brn, agg v f sd, wl srt, with wh-lt gy, lse, m-crs-granule, mod srt, sbrn-dd-rn-dd, sbsph trnsl-fros qtz, broken i/p

SHOWS (2375m-2380m): Tr mod brt gr-yel pinpoint fluor in sltst. Slow blooming dull bl-wh cut fluor. pl bl-gr mod wide spotty fluor residual ring, nil vis residue.

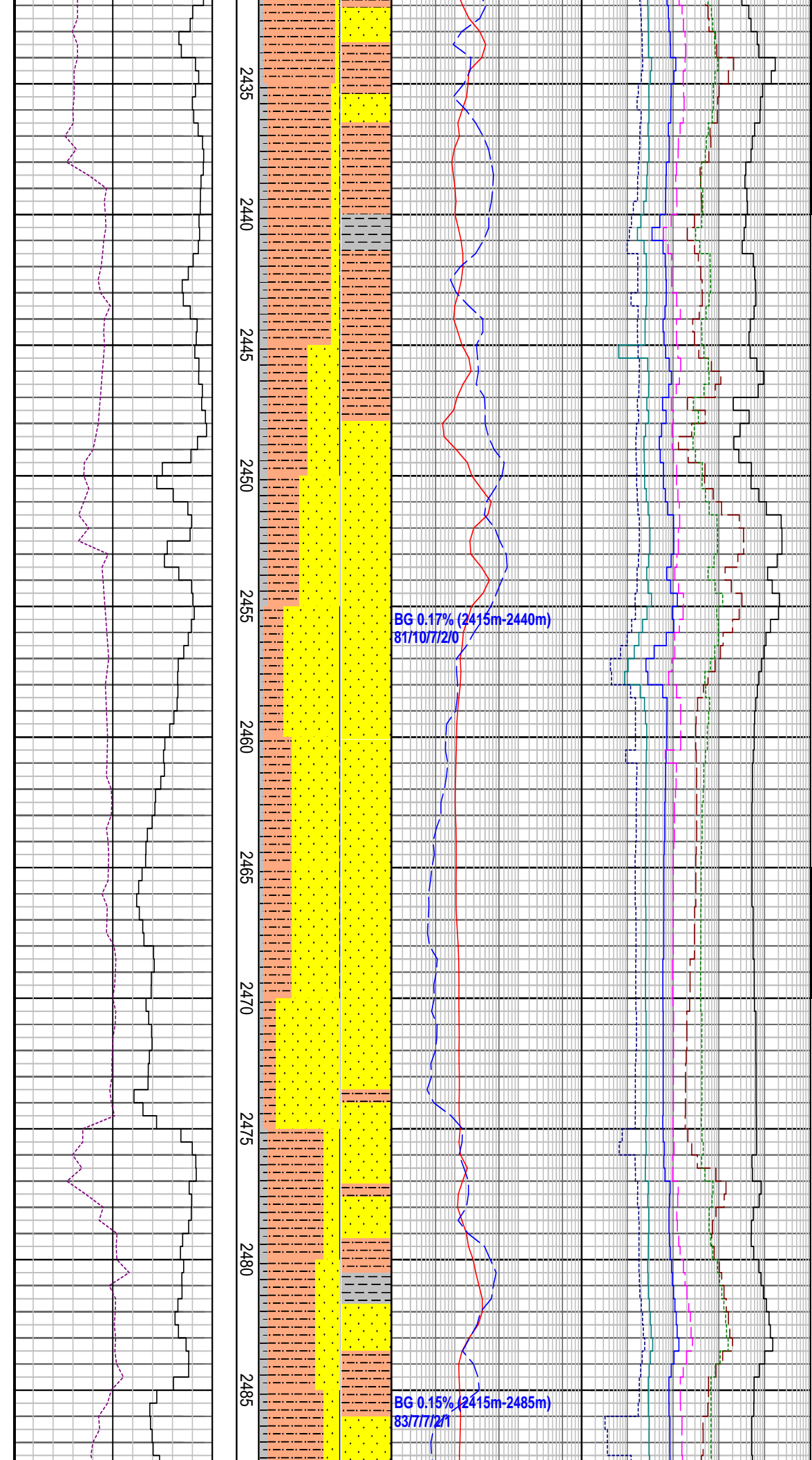
SILTSTONE: mod olv brn-dk gy, frm-hd, blk, arg-carb, n calc

SANDSTONE: lt-m gy lse f lower-crs lower, dom m sd, pr srt, sbang-sbrn-dd clr-frs qtz, tr xln pyr, tr qtz granules, tr brn gy v f hd sltst, tr calc m sst. tr qtz granules, tr calc m sst, tr xln pyr

SHOWS (2405m-2440m): Tr (2% at 2430m) dull to mod brt pinkish yel pinpoint fluor in slyst. Slow(fast at 2425m) blooming dull to mod brt bl-wh cut fluor. Thin dull to mod brt bl-wh fluor resid ring, ni vis residue.

SANDSTONE: lt-m gy lse f lower-crs lower, dom m sd, pr-mod srt, sbang-sbrn-dd clr-frs qtz,

SILTSTONE: mod olv brn-dk gy, frm-hd i/p, blk, arg, glau i/p, n calc



SANDSTONE: lt-m gy lse f lower-crs lower, dom m sd, pr-mod srt, sbang-sbrndd clr-frs qtz, tr qtz granules, tr calc m sst, tr xln pyr

MW: 9.5 ppg	FV: 53
PV: 17	YP:30
Gels: 11/22/26	pH: 8.5

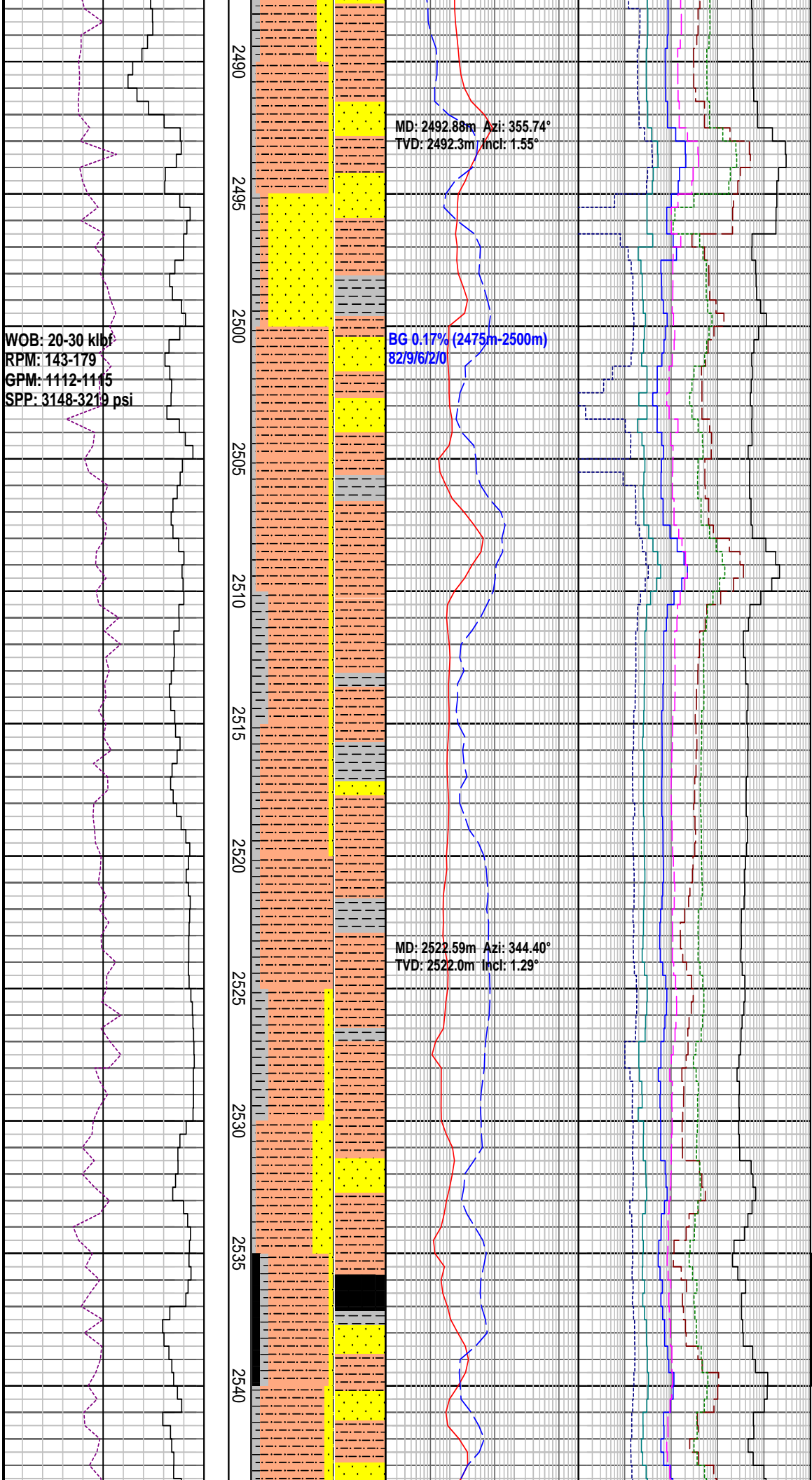
SILTSTONE: mod olv brn-m gy, frm-mod hd, blk, arg-carb calc, tr mic flks, tr carb lam, n calc

SANDSTONE: lt-m gy lse f lower-crs lower, dom m sd, pr-mod srt, sbang-sbrndd clr-frs qtz, tr qtz granules, tr calc m sst, tr xln pyr

SANDSTONE: wh-lt gy, lse, f-crs, tr granule, dom m wl srt, sbrndd-rndd, sbsph trnsp-fros qtz, in places broken, com sft wh-lt gy amor n calc rock flour, tr pyr clus cmt gr

SHOWS (2465m-2470m): tr 2% dull yel org pinpoint fluor in sltst, mod fast blooming dull bl-wh cut fluor, Thin dull to mod brt bl-wh fluor resid ring.

SILTSTONE: mod olv brn-m gy, frm-mod hd, blk, arg-carb n calc, tr



mic flks, tr carb lam

SANDSTONE: lt-m brnsh gy, frm-mod hd, v f lower-upper sst, wl srt sbang qtz, tr mic slty mtrx, com carb lam, with mnr lse v f-m sd, tr qtz granules

CLAYSTONE: lt gy- m gy, sft-mod frm, disp i/p, sbbky-blky, sli slty, tr mic flks, tr carb flks, mod calc

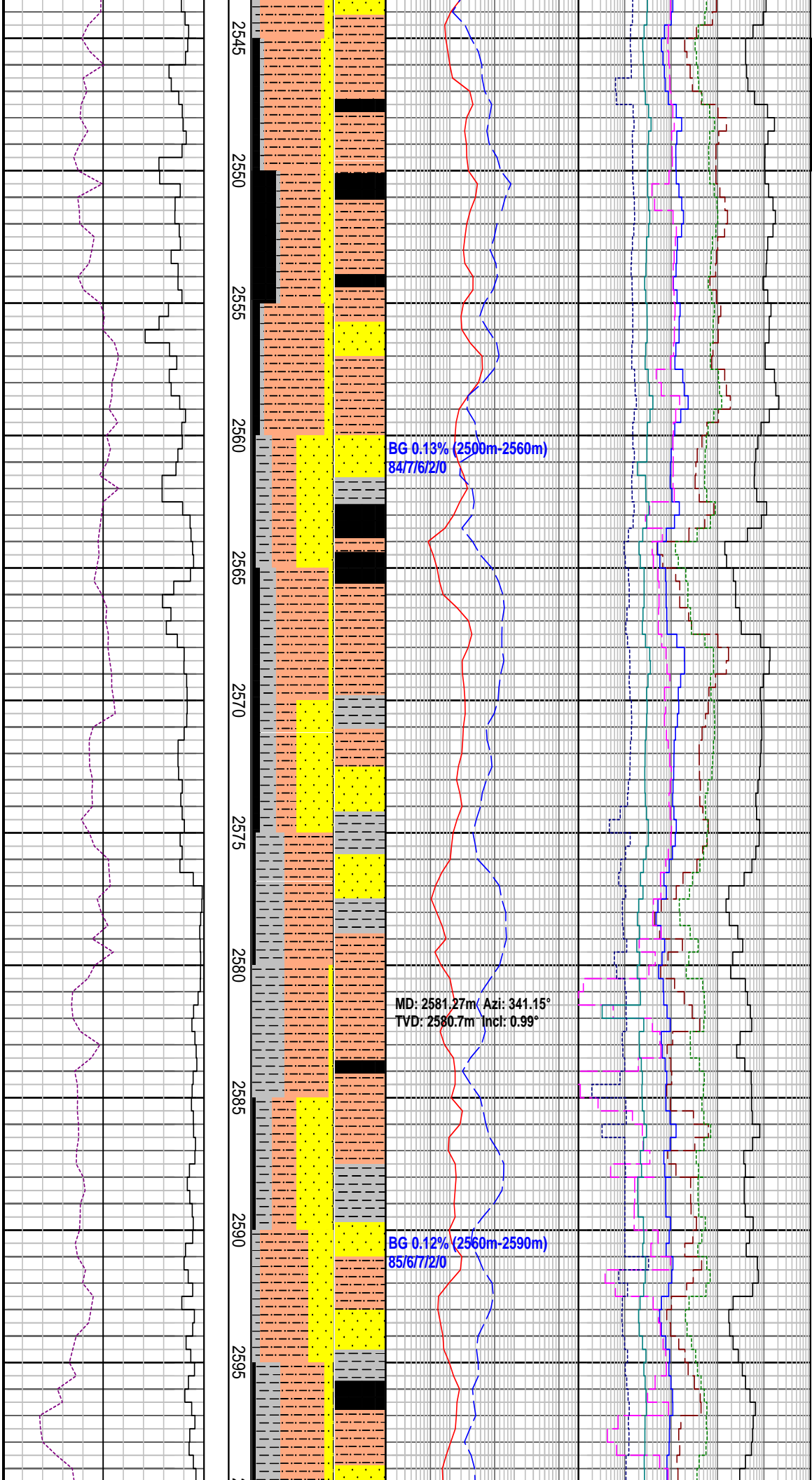
SILTSTONE: mod olv brn-m gy, frm-mod hd, blk, arg-carb, tr coal frag, n calc, com pl-gy frm sli sandy sltst, tr mic flks, tr carb lam

SANDSTONE: lt-m brnsh gy, frm-mod hd, v f-f, wl srt, sbrndd-rndd, mod srt, tr mic slty mtrx, com carb lam, n calc, inf vis por, tr xln pyr

SANDSTONE: lt-m brnsh gy, frm-mod hd, v f lower-upper sst, wl srt sbang qtz, tr mic in slty mtrx, wkly cmt, mod srt, com carb lam, with mnr lse v f-m sd, tr xln pyr

SHOWS (2535m-2540m): tr brt grsh-yel pinpoint fluor in calcareous clyst, slow blooming mod brt bl-wh cut fluor, thin dull bl-wh fluor residual ring, nil vis residue.

SANDSTONE: lt-m brnsh gy, frm-mo



SANDSTONE: lt-m brnsh gy, frm-mod hd, v f lower-upper sst, wl srt sbang qtz, tr mic in slty mtrx, wkly cmt, mod

srt, com carb lam, with mnv lse v f-m sd, tr xln pyr

SHOWS (2545m-2550m): tr brt gr-wh pinpoint fluor in coal(resin), slow blooming mod brt bl-wh cut fluor, wide brt bl-gr fluor residual ring, nil vis residue.

COAL: dk brn-blk, hackly-conc frac

SANDSTONE: lt-m brnsh gy, frm-mod hd, v f lower-upper sst, wl srt sbang qtz, tr mic in slty mtrx, wkly cmt, com carb lam

MW: 9.5 ppg	FV: 58
PV: 19	YP:31
Gels: 12/24/29	pH: 8.5

COAL: dk brn-blk, frm, hackly-conch frag

CLAYSTONE: lt gy- m gy, sft-mod frm disp i/p, sbbky-blky, sli slty, tr mic flks, tr carb flks, mod calc

SILTSTONE: mod olv brn-m gy, frm-mod hd, blk, arg-carb, tr coal frag, n calc, com pl-gy frm sli sandy sltst, tr mic flks, tr carb lam

MD: 2581.27m Azi: 341.15°
TVD: 2580.7m Incl: 0.99°

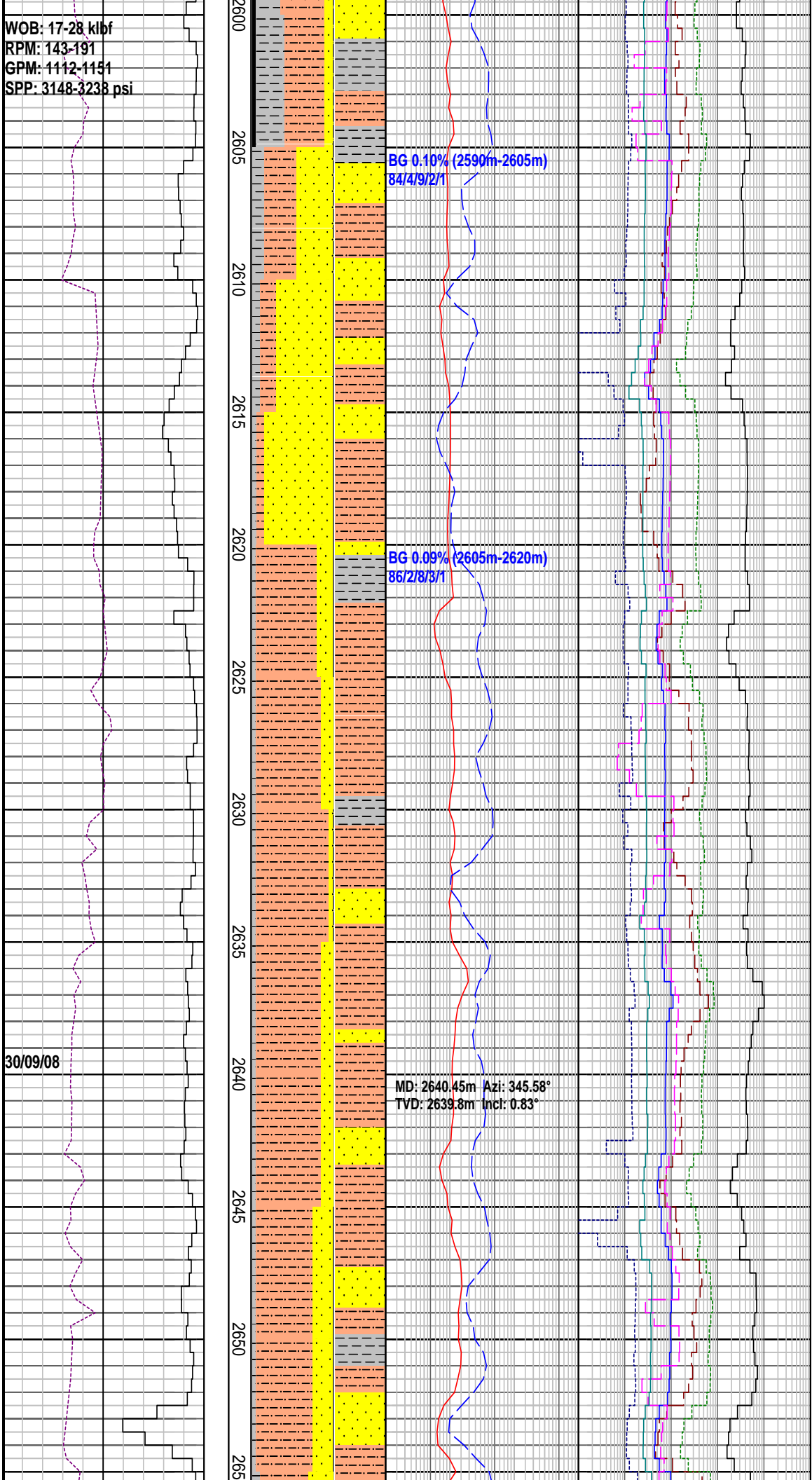
COAL: dk brn-blk, frm, hackly-conch frag

CLAYSTONE: lt gy- m gy, sft-mod frm disp i/p, sbbky-blky, sli slty, tr mic flks, tr carb flks, mod calc

BG 0.12% (2560m-2990m)
85767720

COAL: dk brn-blk, frm, hackly-conch frag

WOB: 17-28 klf
 RPM: 143-191
 GPM: 1112-1151
 SPP: 3148-3238 psi



CLAYSTONE : lt-m gy, sft-mod frm, sbblky-blky, sli slty, tr mic flks, tr carb flks, mod calc

SANDSTONE: wh-v lt gy, pred lse with occ agg, m-crs with mnr granule, mod-wl srt, sbang-sbrndd clr-fros qtz, tr pyr, tr musc flks, tr coal

SANDSTONE: v lt gy-m brnsh gy, frm-mod hd, v f lower-upper sd, f sst i/p, wl srt sb ang qtz, tr mic in slty mtrx, wk sil cmt, com carb lam, with com lse v f-f sd, mod srt, sbrndd, tr pyr granules

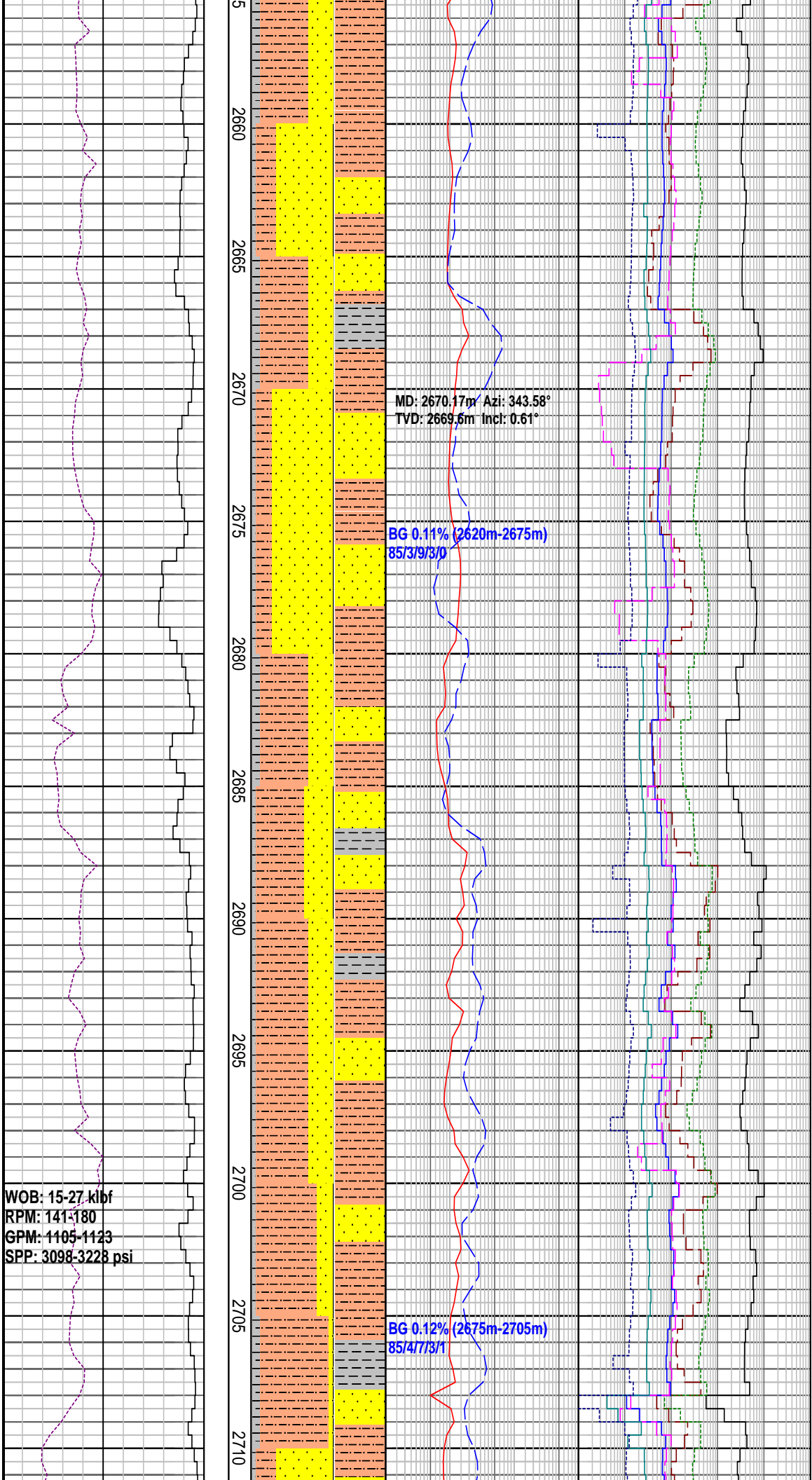
SILTSTONE: mod olv brn-mod gy, frm-hd, arg-carb, n calc, tr coal frag, mnr pyr, tr sst, tr mic, tr com pl gy frm sli sandy sltst, tr mic flks, tr carb lam

MW: 9.4 ppg	FV: 57
PV: 17	YP:32
Gels: 13/26/30	pH: 8.5

SANDSTONE: v lt gy-m brnsh gy, frm-mod hd, v f lower-upper sd, f sst i/p, wl srt sb ang qtz, tr mic in slty mtrx, wk sil cmt, com carb lam, with com lse v f-f sd, mod srt, sbrndd, tr pyr granules

SILTSTONE: mod olv brn-mod gy, frm-hd, arg-carb, n calc, tr coal frag, mnr pyr, tr sst, tr mic, tr com pl gy frm sli sandy sltst, tr mic flks, tr carb lam

SANDSTONE: v lt gy-m brnsh gy, frm-mod hd, v f lower-upper sd, f sst i/p, wl srt sb ang qtz, tr mic in slty mtrx, wk sil cmt, com carb lam



SILTSTONE: mod olv brn-mod gy, frm-hd, arg-carb, n calc, tr coal frag, mnr pyr, tr sst, tr mic, tr com pl gy frm sli sandy sltst, tr mic flks, tr carb lam

CLAYSTONE : lt-m gy, sft-mod frm, sbblky-blky, sli slty, tr mic flks, tr carb flks, mod calc

SANDSTONE: lt gy-m brnsh gy, frm-mod hd, v f lower-upper sd, f sst i/p, wl srt sb ang qtz, tr mic in slty mtrx, wk sil cmt, com carb lam, with com lse v f-f sd, mod srt, sbrnrd, tr pyr granules

SILTSTONE: mod olv brn-mod gy, frm-hd, arg-carb, n calc, tr coal frag, mnr pyr, tr sst, tr mic, tr com pl gy frm sli sandy sltst, tr mic flks, tr carb lam

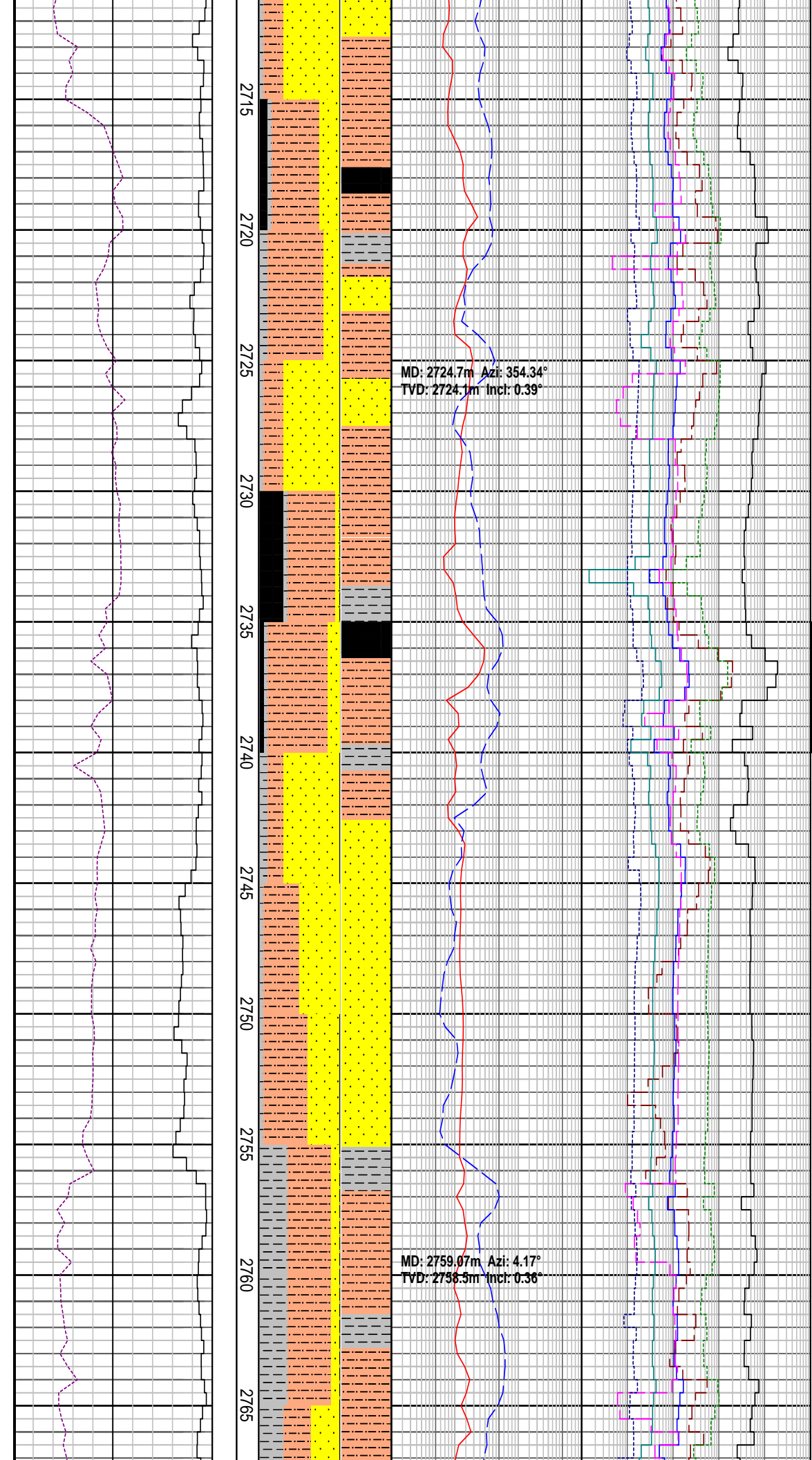
CLAYSTONE : lt-m gy, sft-mod frm, sbblky-blky, sli slty, tr mic flks, tr carb flks, mod calc

SILTSTONE: mod olv brn-mod gy, frm-hd, arg-carb, n calc, tr coal frag, mnr pyr, tr sst, tr mic, tr com pl gy frm sli sandy sltst, tr mic flks, tr carb lam

SANDSTONE:wh-pl gy lse v f-m sd, dom f, mod srt, sbrnrd qtz, comm v lt gy-lt-m brnsh gy, frm-mod hd, v f lw sst, wl srt sbang qtz tr mic slty mtrx

SILTSTONE: pl-mod olv brn-m gy, frm-hd, arg-carb, n calc, tr coal frag, mnr pyr, frm sli sandy sltst, tr mic flks

CLAYSTONE : lt-m gy, mod frm, sbblky-blky, sli slty, tr mic flks, tr carb flks, mod calc



SANDSTONE: v lt gy-lt-med brnsh gy frm-mod hd, v f lower to f sst, wl srt sbrndd qtz, tr mic in slty mtrx, wlky sil cmt, com carb lam, tr pyr, p vis por, com wh-pl gy lse v f-m sd, dom f, mod, tr qtz

COAL: dk brn-blk, frm, conch frag

SILTSTONE: pl-mod olv brn-m gy, frm-hd, arg-carb, n calc, tr coal frag, mntr pyr, tr pl gy, frm sli sandy sltst, tr mic flks

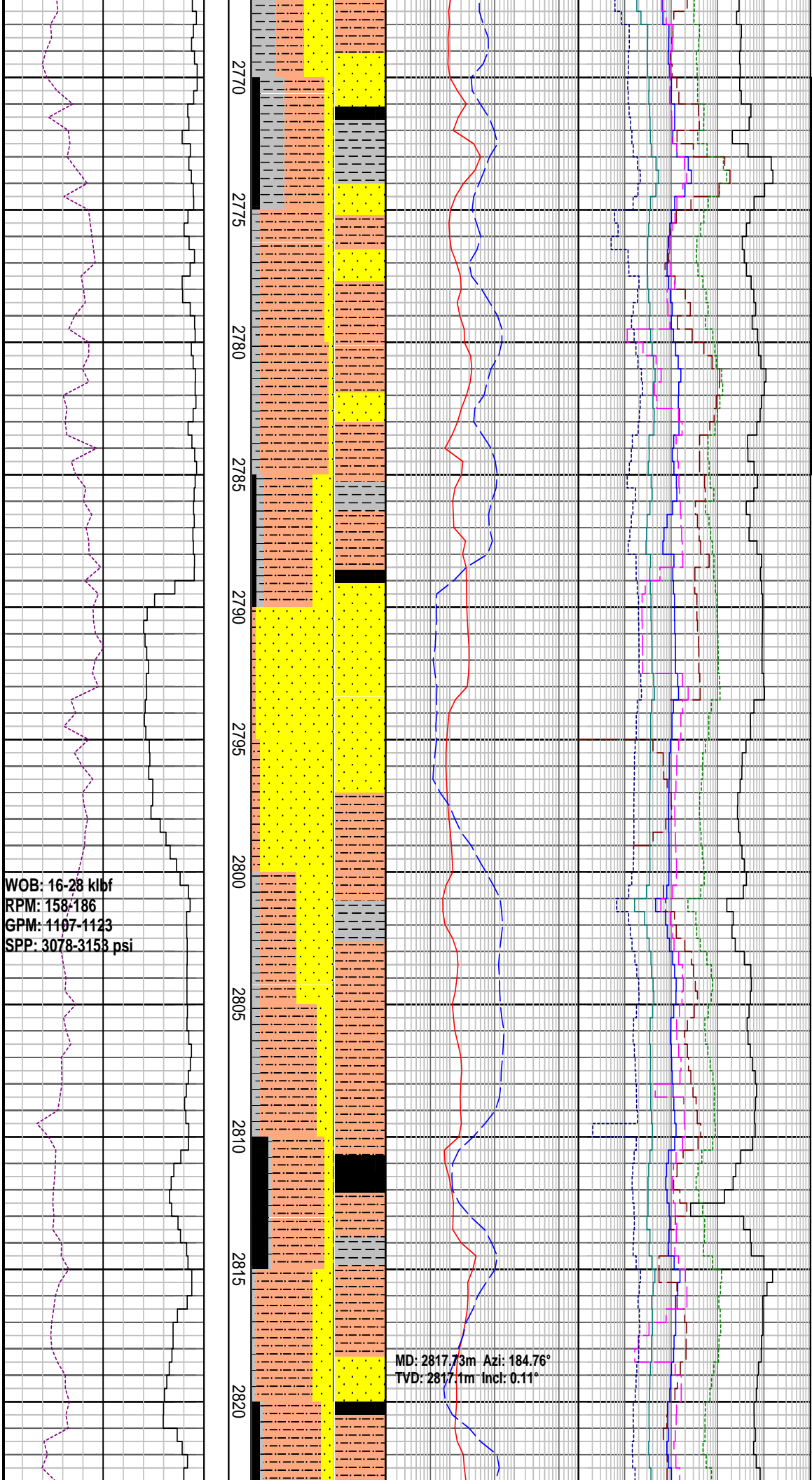
CLAYSTONE : lt-m gy, mod frm, sbblky-blky, sli slty, tr mic flks, tr carb flks, mod calc

SHOW(2735m): tr yel-gr flour associated with coal resins. v slow blooming bl-wh cut fluor. Dull pl bl-wh residual ring.

SANDSTONE: v lt gy-lt-med brnsh gy, frm-mod hd, v f lower to upper sst, wl srt sbrndd qtz, tr mic in slty mtrx, wlky sil cmt, com carb lam, tr pyr, pr vis por, with lse v f-m sd, tr qtz granules

CLAYSTONE : lt-m gy, mod frm, sbblky-blky, sli slty, tr mic flks, tr carb flks, mod calc

SILTSTONE: pl-mod olv brn-med gy, frm-hd, arg-carb, n calc, tr coal frag, mntr pyr, tr pl-gy frm sli sandy sltst, tr mic flks



WOB: 16-28 klbf
 RPM: 158-186
 GPM: 1107-1123
 SPP: 3078-3153 psi

MD: 2817.73m Azi: 184.76°
 TVD: 2817.1m Incl: 0.11°

SANDSTONE: v lt gy-lt-med brnsh gy, frm-mod hd, v f lower to f sst, wl srt sbrndd qtz and tr mic in slty mtrx, wlky sil cmt, com carb lam, tr pyr, pr vis por, with lse v f-med sd, tr qtz granules

SHOW(2770m-2785m): tr yel-gr flour associated with coal resins. v slow blooming bl-wh cut fluor. Dull pl bl-wh residual ring.

SILTSTONE: pl-mod olv brn-med gy, frm-hd, arg-carb, n calc, tr coal frag, mnr pyr, tr pl-gy frm sli sandy sltst, tr mic flks

SANDSTONE: v lt gy-lt-med brnsh gy, frm-mod hd, v f lower to f sst, wl srt sbrndd qtz and tr mic in slty mtrx, wlky sil cmt, com carb lam, tr pyr, pr vis por, com wh-pl gy lse v f-med sd, tr qtz

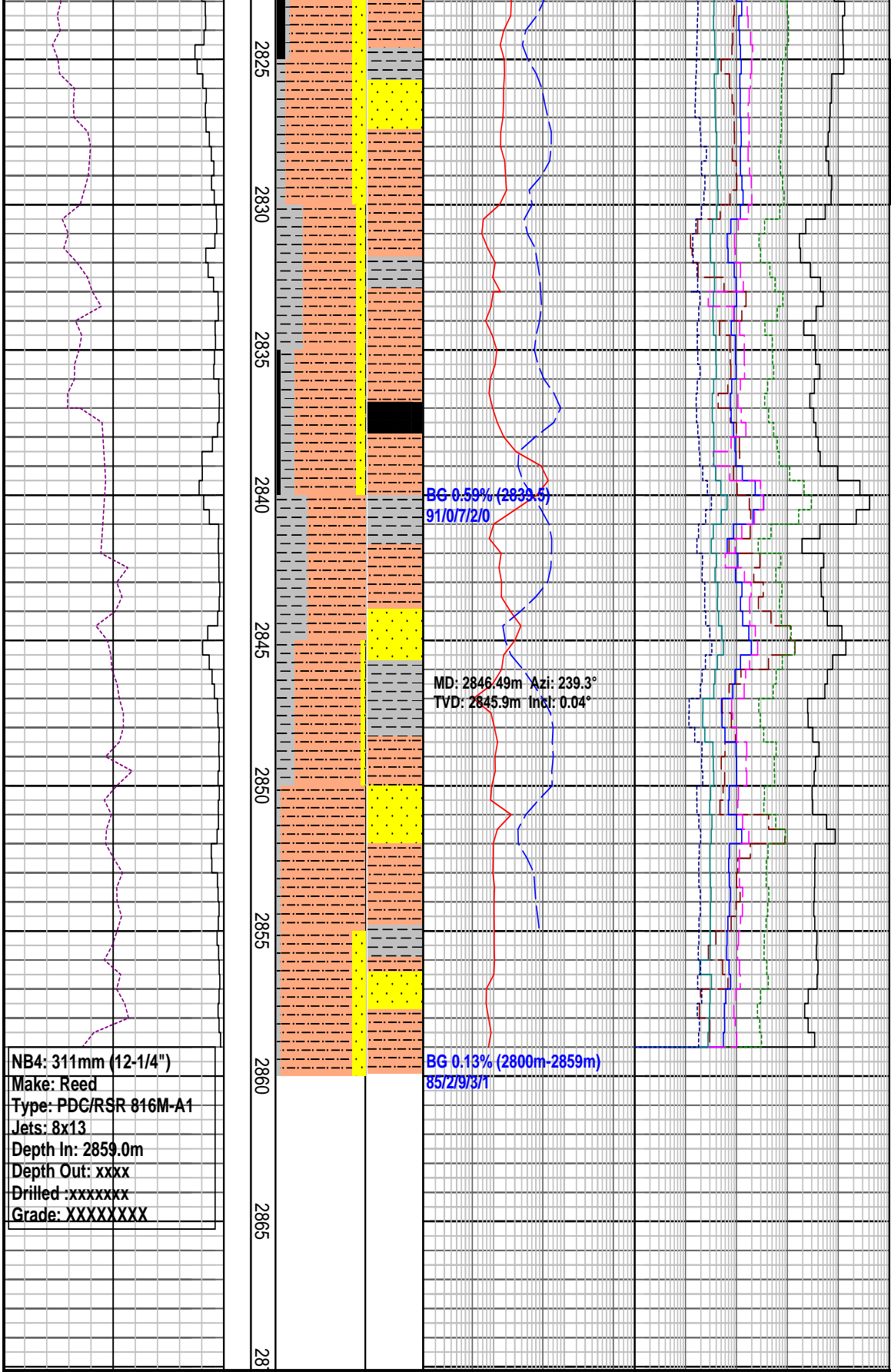
SILTSTONE: mod olv brn-m gy, frm-hd, arg-carb, n calc, tr coal frag, mnr pyr, tr pl gy frm sli sandy sltst, tr mic flks, tr carb lam

COAL: dk brn-blk, ang, hackly-conch frac, dull-brt banded

SILTSTONE: mod olv brn-m gy, frm-hd, arg-carb, n calc, tr coal frag, mnr pyr, tr pl gy frm sli sandy sltst, tr mic flks, tr carb lam

COAL: dk brn-blk, ang, hackly-conch frac, dull-brt banded

SILTSTONE: pl-mod olv brn-m gy



SILTSTONE: pl-mod olv brn-lm gy
frm-hd, arg-carb, n calc, tr coal frag,
mnr pyr, tr pl gy, frm sli sandy sltst, tr
mic flks

SANDSTONE: v lt gy, lse, v f-f m sd,
dom f, mod srt, sbrn-dd-sbang, 10%
agg yel gy sil cmt, tr p, tr coal

SHOWS (2825m-2830m): tr yel-gr
pinpoint fluor in coal(resin), v slow
blooming bl-wh cut fluor, bl-wh
fluor residual ring, nil vis residue.

COAL: dk brn-blk, ang, hackly-conch
frac, dull-brt banded

CLAYSTONE : lt-m gy, mod frm,
sbbkly-blky, sli sity, tr mic flks, tr carb
flks, tr carb flks, mod calc

SANDSTONE: v lt-gy-lt-med brnsh gy,
frm-mod hd, v f lower-upper sst, wl
srt, sbang-sbrn-dd qrtz and tr mic in
sity mtrx,wlky sil cmt, com carb lam
with mnr lse v f-med sd

SILTSTONE:mod olv brn-m gy,
frm-hd, arg-carb, n calc, tr coal frag,
mnr pyr, tr pl gy frm sli sandy sltst, tr
mic flks, tr carb lam

NB4: 311mm (12-1/4")
Make: Reed
Type: PDG/RSR 816M-A1
Jets: 8x13
Depth In: 2859.0m
Depth Out: xxxx
Drilled :xxxxxxx
Grade: XXXXXXXX

Bit Trip @2859.0m

MW: 9.5 ppg FV: 80
PV: 13 YP:30
Gels: 9/18/21 pH: 8.5

FORMATION EVALUATION LOG

Drilling Rate		CORE	LITHOLOGY %	INTERPRETED LITHOLOGY	TOTAL GAS & RESISTIVITY		CHROMATOGRAPH		Oil Show	Calcimetry	Lithology Description
ROP (m/hr)	WEIGHT ON BIT (klbf)				ROP Backup (m/hr)	Total Gas %	Resistivity Deep	Methane ppm			
200	160	MD meters 1:200			0.1	0.1	10000	10000	10000	10000	
400	360				0.2	200	10000	10000	10000	10000	
					oh.m						

					0.1	iso-Pentane ppm	10000
					0.1	n-Pentane ppm	10000

					0.1	n-Pentane ppm	10000
--	--	--	--	--	-----	---------------	-------