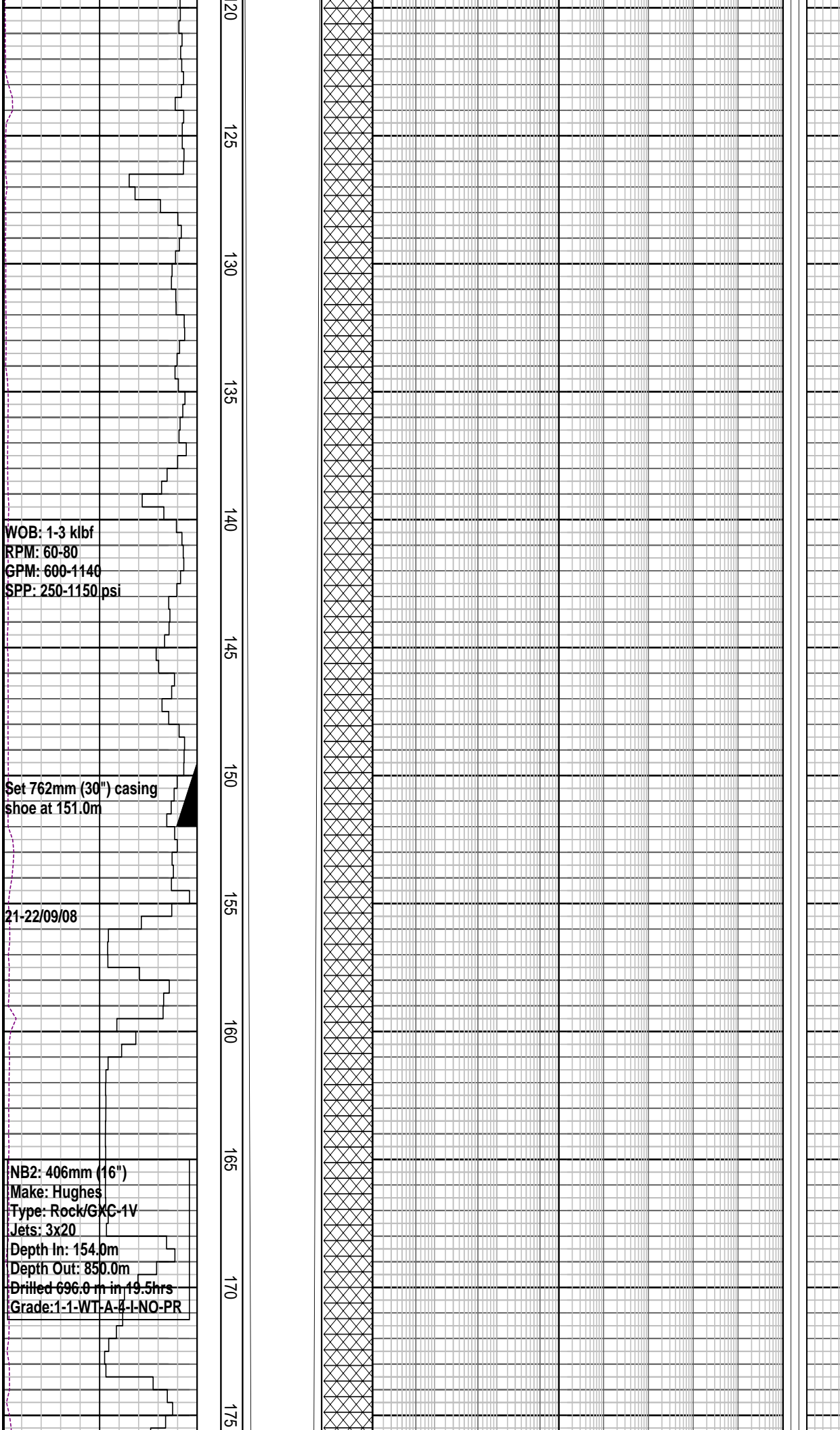


Drill with seawater & Hi-Vis sweeps.
Returns to seabed 106.4m - 850.0m



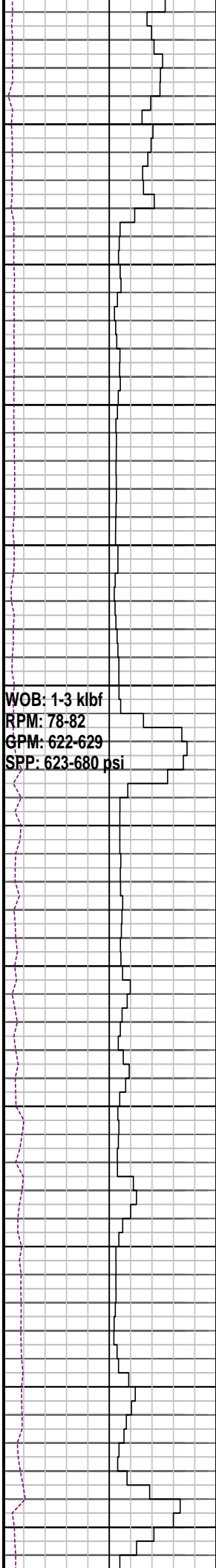
WOB: 1-3 klbf
RPM: 60-80
GPM: 600-1140
SPP: 250-1150 psi

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-2-I-NO-PR

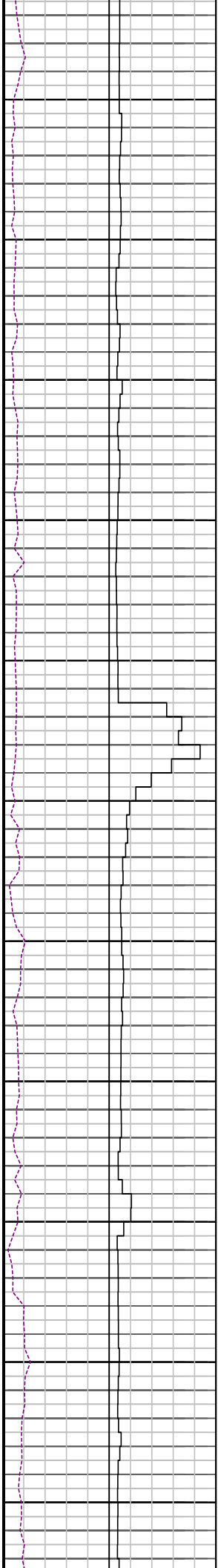
36" Hole Section TD 154.0m



180
185
190
195
200
205
210
215
220
225
230

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

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



235

240

245

250

255

260

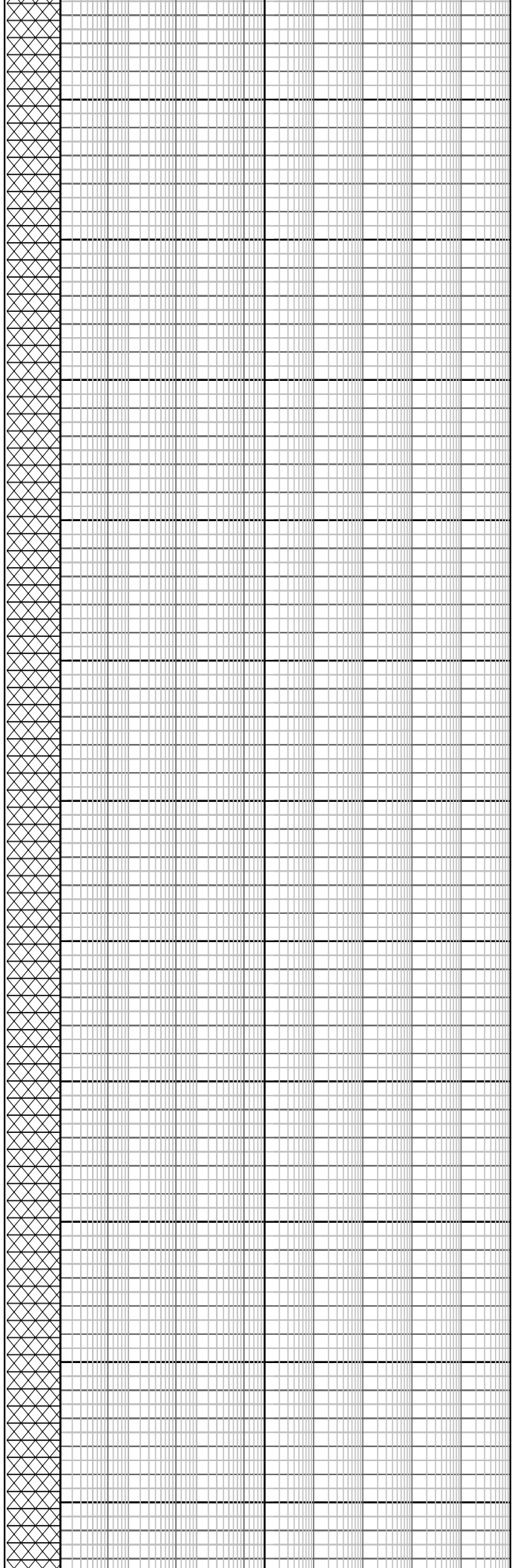
265

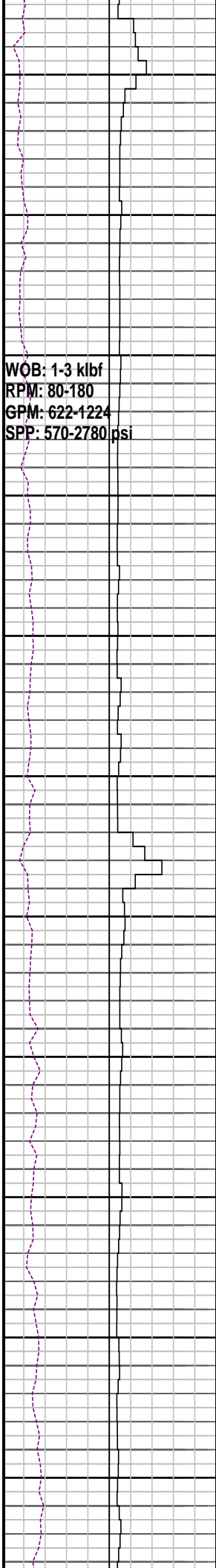
270

275

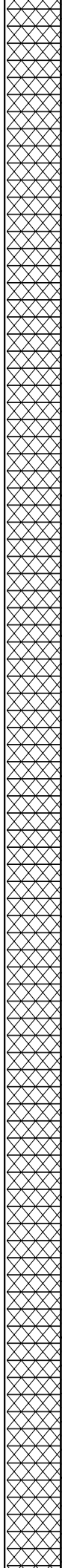
280

285



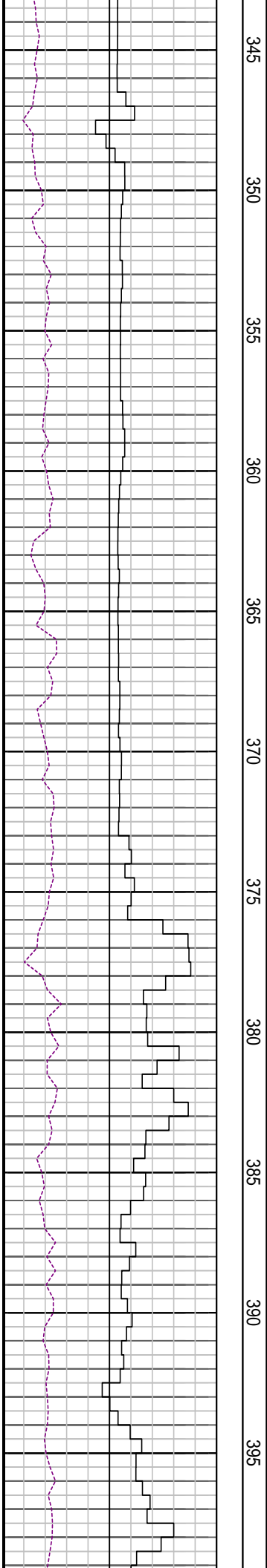


290
295
300
305
310
315
320
325
330
335
340



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

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



345

350

355

360

365

370

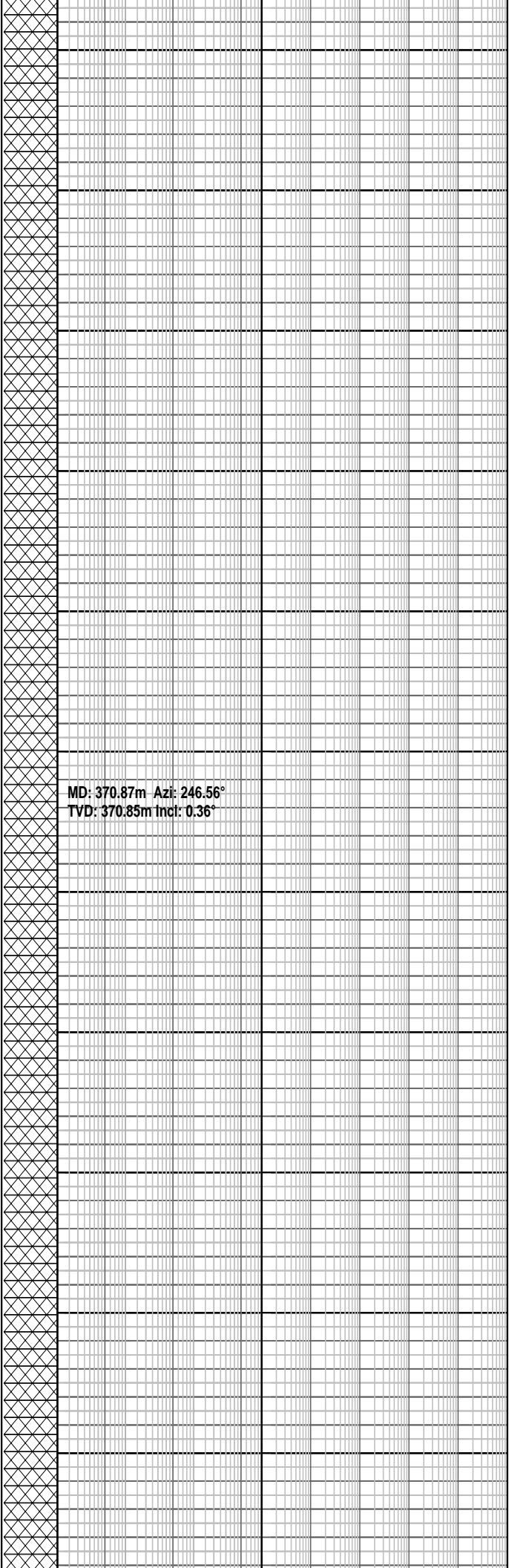
375

380

385

390

395

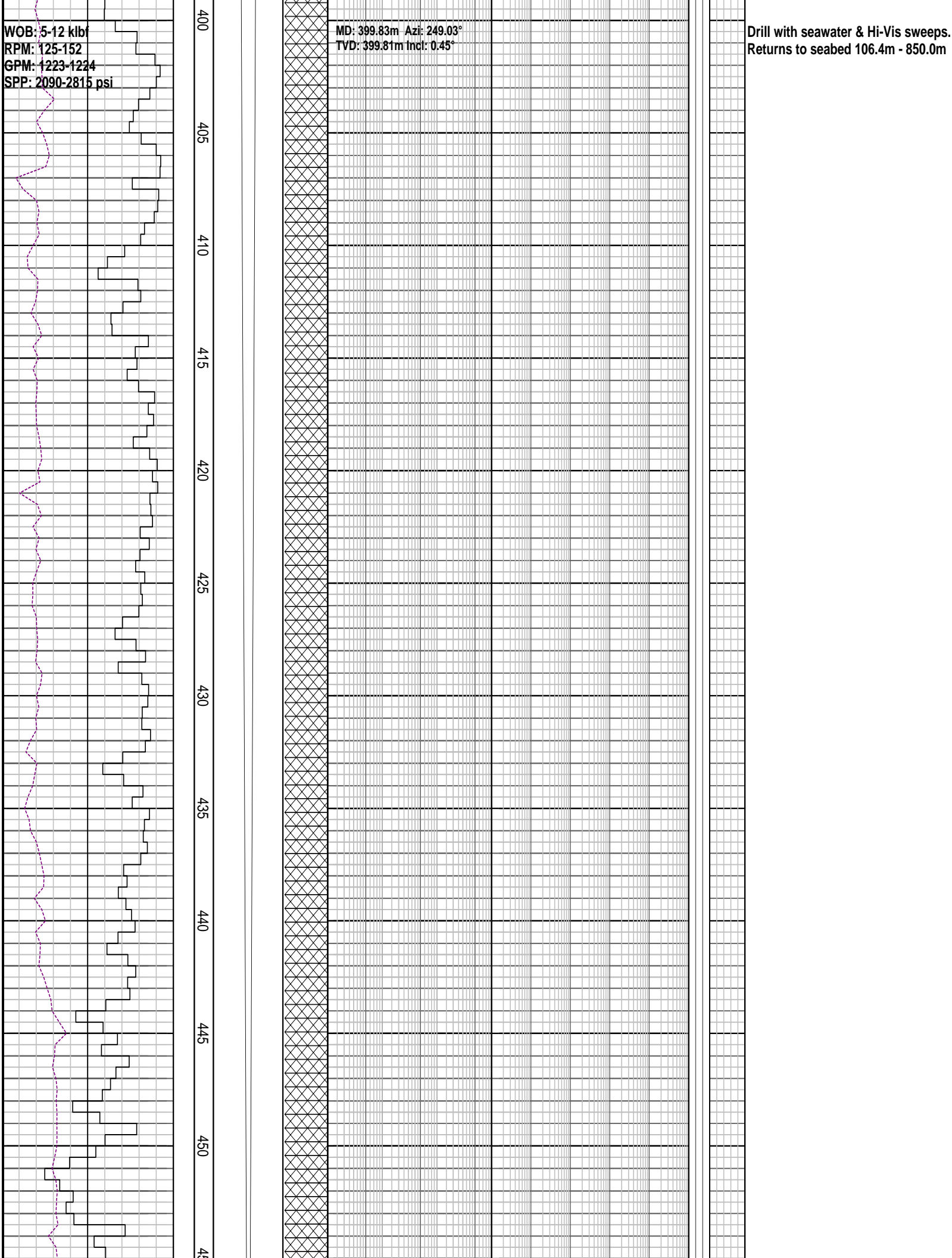


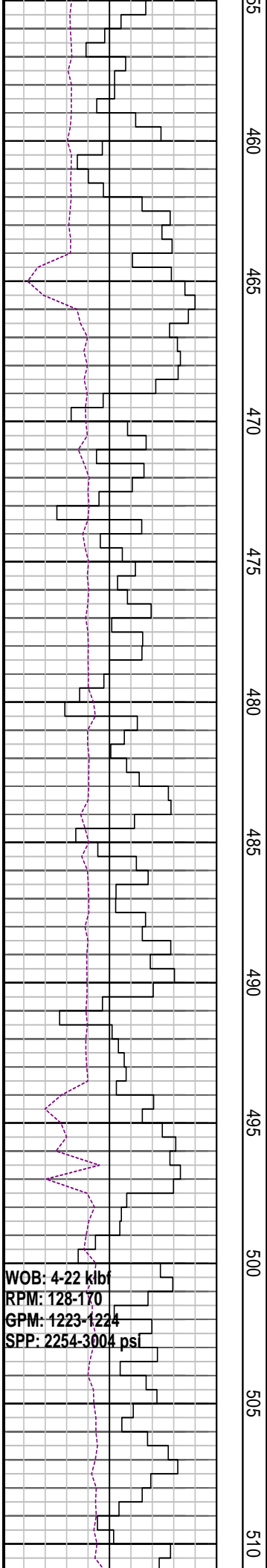
MD: 370.87m Azi: 246.56°
TVD: 370.85m Incl: 0.36°

WOB: 5-12 klb
RPM: 125-152
GPM: 1223-1224
SPP: 2090-2815 psi

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





455
460
465
470
475
480
485
490
495
500
505
510

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

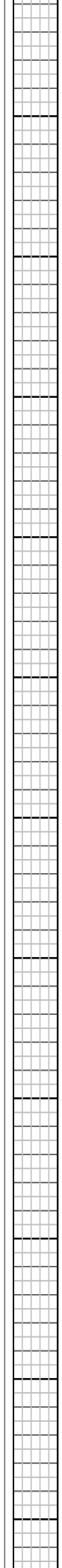
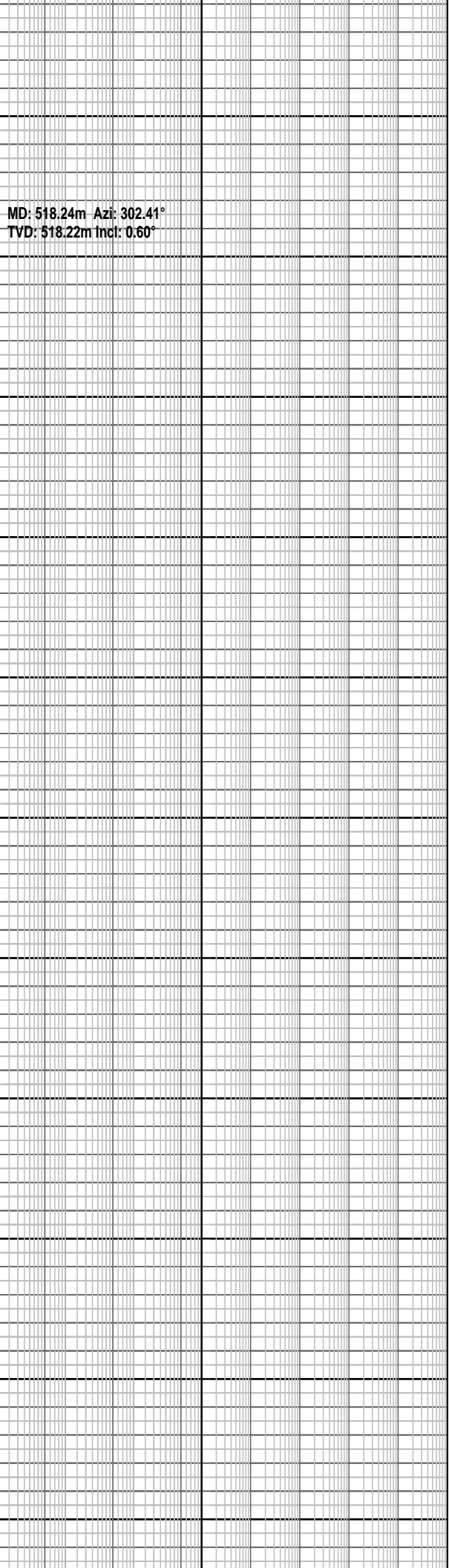
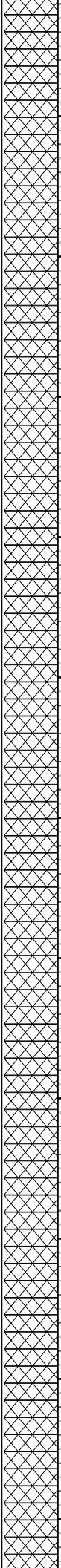
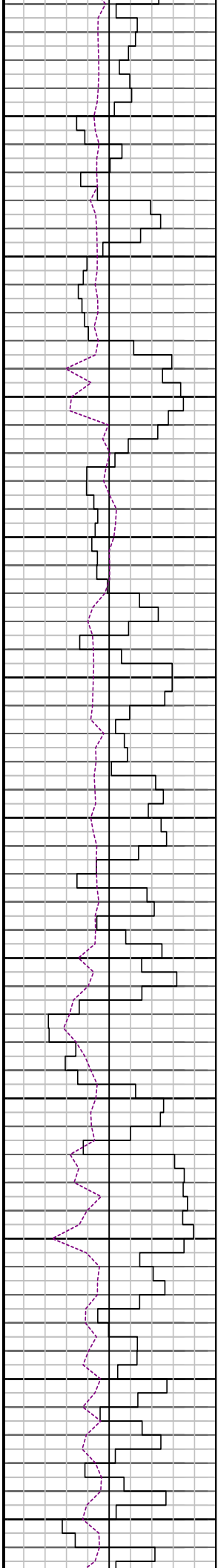
MD: 488.50m Azi: 298.03°
TVD: 488.48m Incl: 0.55°

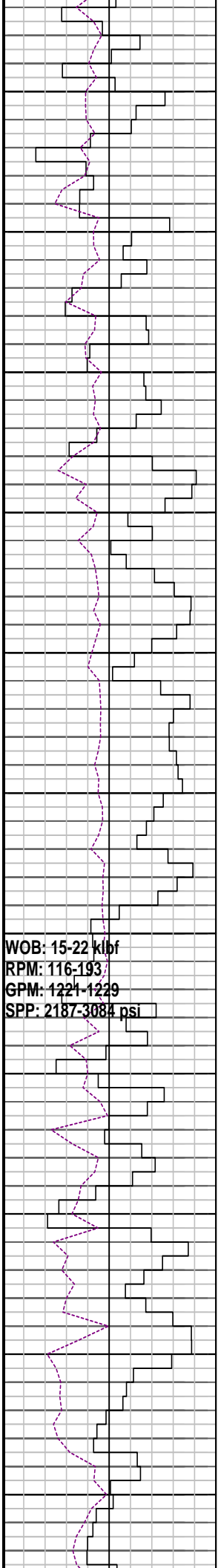
WOB: 4-22 kbf
RPM: 128-170
GPM: 1223-1224
SPP: 2254-3004 psi

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

515 520 525 530 535 540 545 550 555 560 565

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



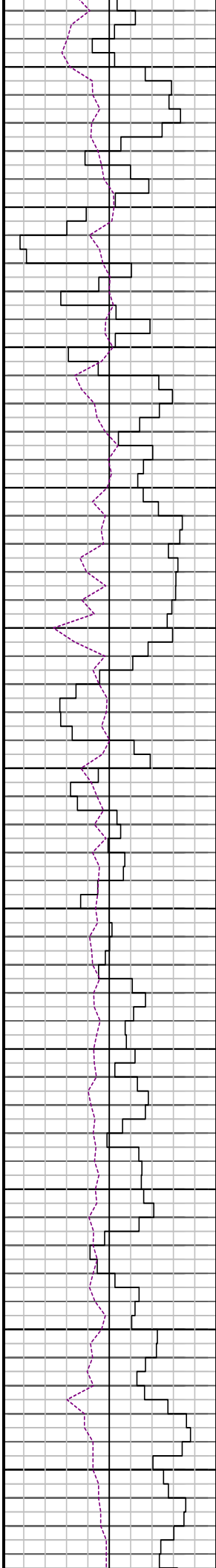


570
575
580
585
590
595
600
605
610
615
620

WOB: 15-22 klf
RPM: 116-193
GPM: 1221-1229
SPP: 2187-3084 psi

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

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



625

630

635

640

645

650

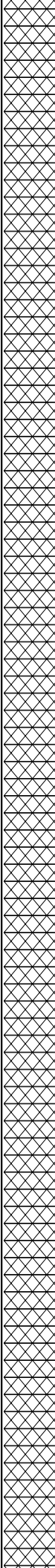
655

660

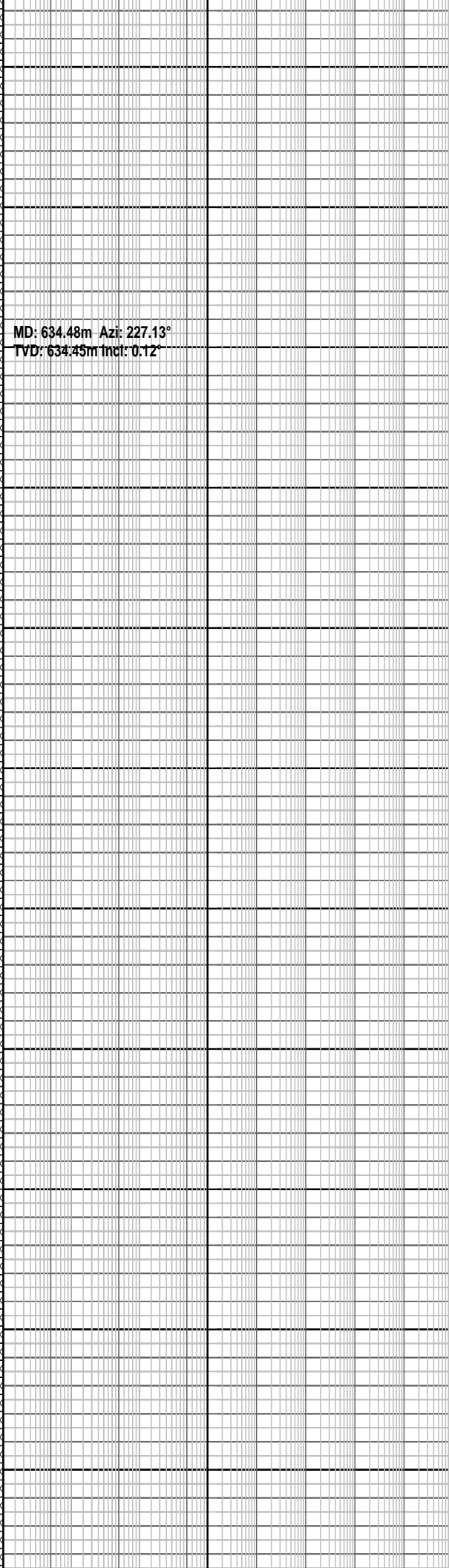
665

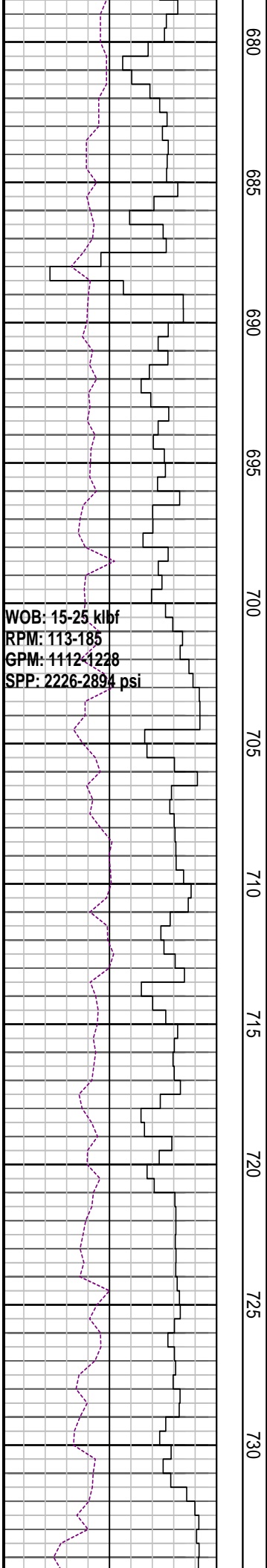
670

675



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





680

685

690

695

700

705

710

715

720

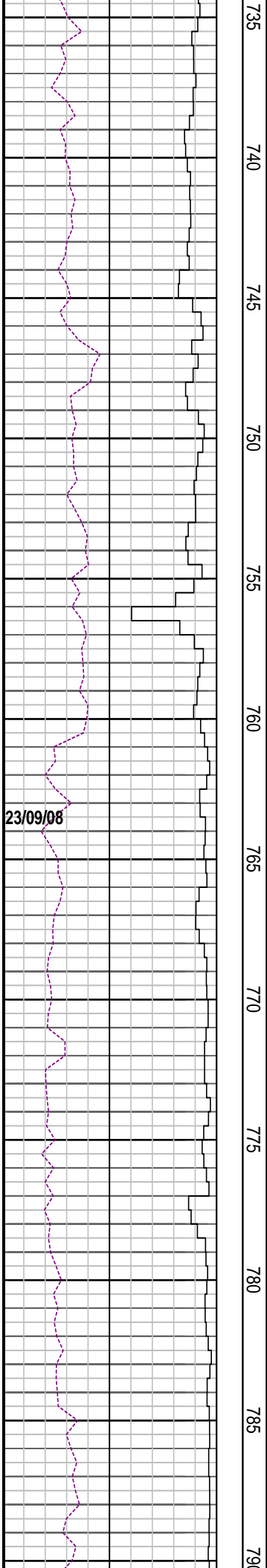
725

730

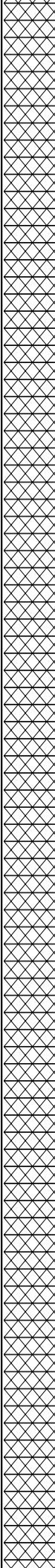
MD: 698.14m Azi: 181.9°
TVD: 698.11m Incl: 0.30°

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

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



735
740
745
750
755
760
765
770
775
780
785
790



MD: 755.72m Azi: 175.57°
TVD: 755.76m Incl: 2.82°

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

WOB: 10-25 kbf
RPM: 104-185
GPM: 1091-1118
SPP: 1924-2586psi

Set 340mm (13-3/8") casing shoe at 841.0 mMDR

795
800
805
810
815
820
825
830
835
840
845

MD: 814.35m Azi: 171.73°
TVD: 814.28m Incl: 0.20°

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

16" Hole Section TD 850.0m

Drill with KCl/PHPA mud
850.0m to Well TD

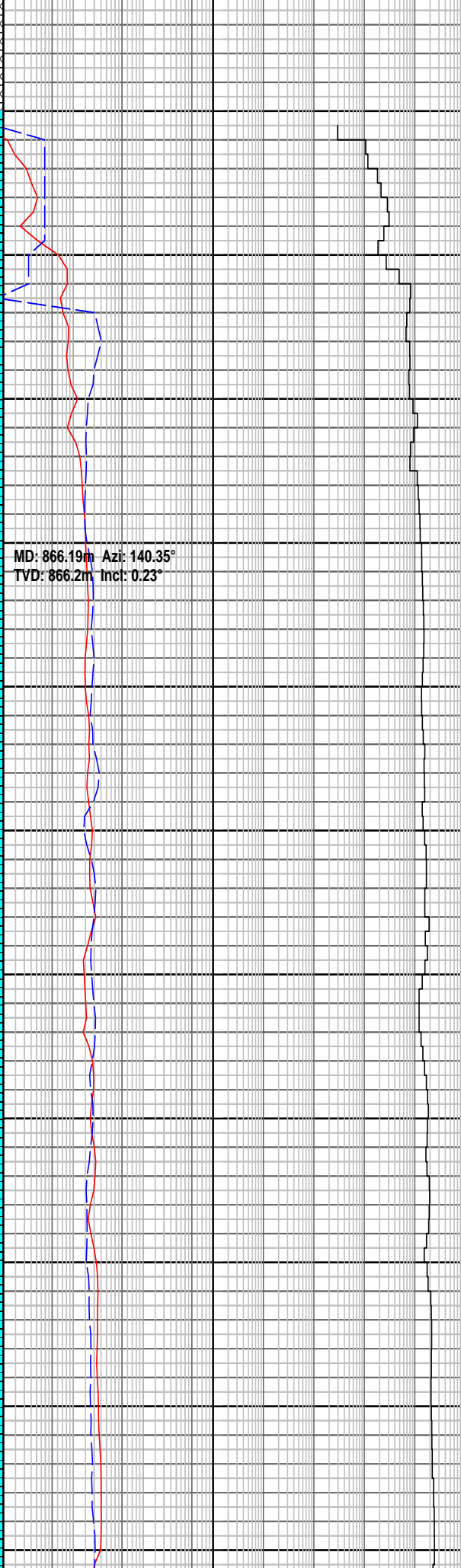
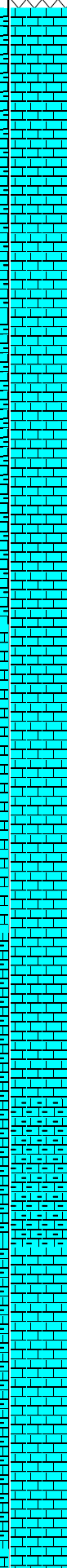
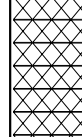
MW: 8.7 ppg FV:
153
PV: 24 YP:40
Gels: 10/12/12 pH: 9.0

24-26/09/08

NB3: 311mm (12-1/4")
Make: Reed
Type: PDC/RSR 616M-A10
Jets: 3x13,3x14
Depth In: 850.0m
Depth Out: 2859.0m
Drilled 2009.0m in 74.8hrs
Grade: 3-4-RO-N-X-I-BT-PR

WOB: 5-25 klf
RPM: 70-142
CBM: 840-1110

850
855
860
865
870
875
880
885
890
895
900



MD: 866.19m Azi: 140.35°
TVD: 866.2m Incl: 0.23°

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

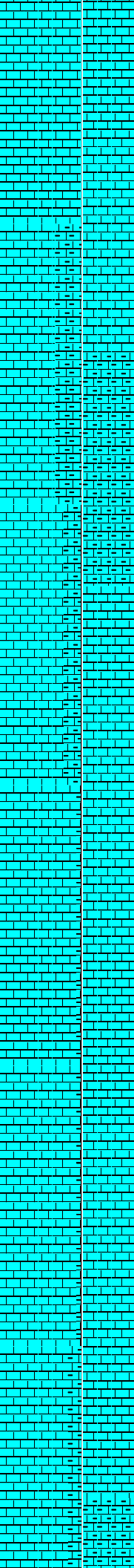
CALCULITITE lt bl gy, mod sft, ang f
gr slit par, wl srt, wk calc cmt, Ls md
mtrx, p vis por

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

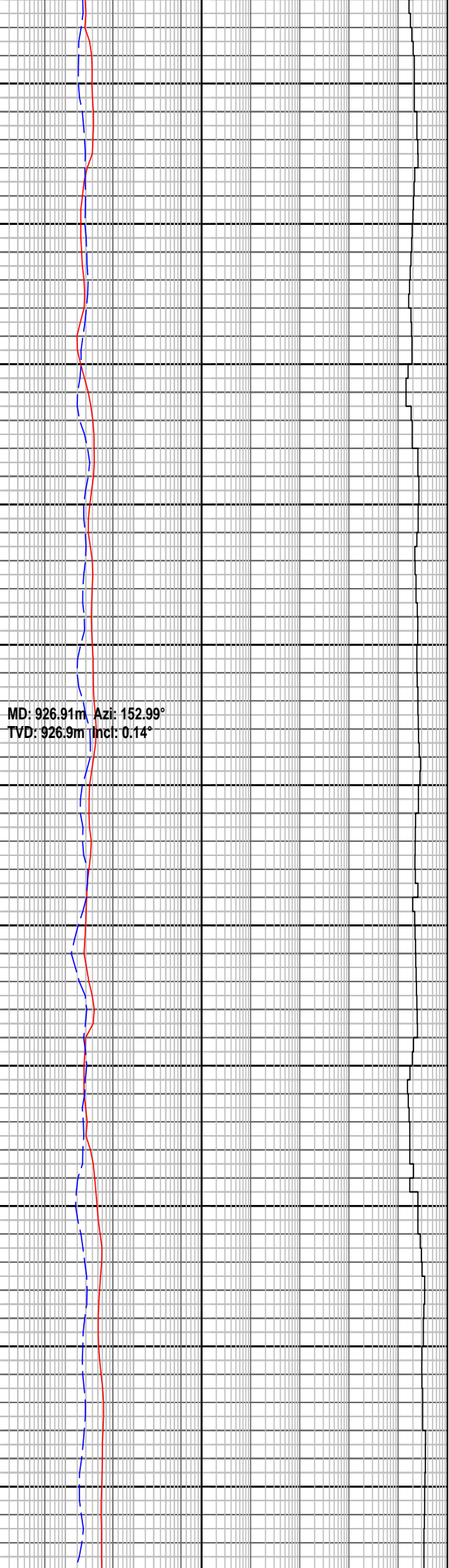
CALCULITITE : lt bl gy, mod sft, ang f
gr slit par, wl srt, wk calc cmt, Ls md
mtrx, p vis por

GRM: 840-1110
SPP: 1675-2470 psi

905
910
915
920
925
930
935
940
945
950
955



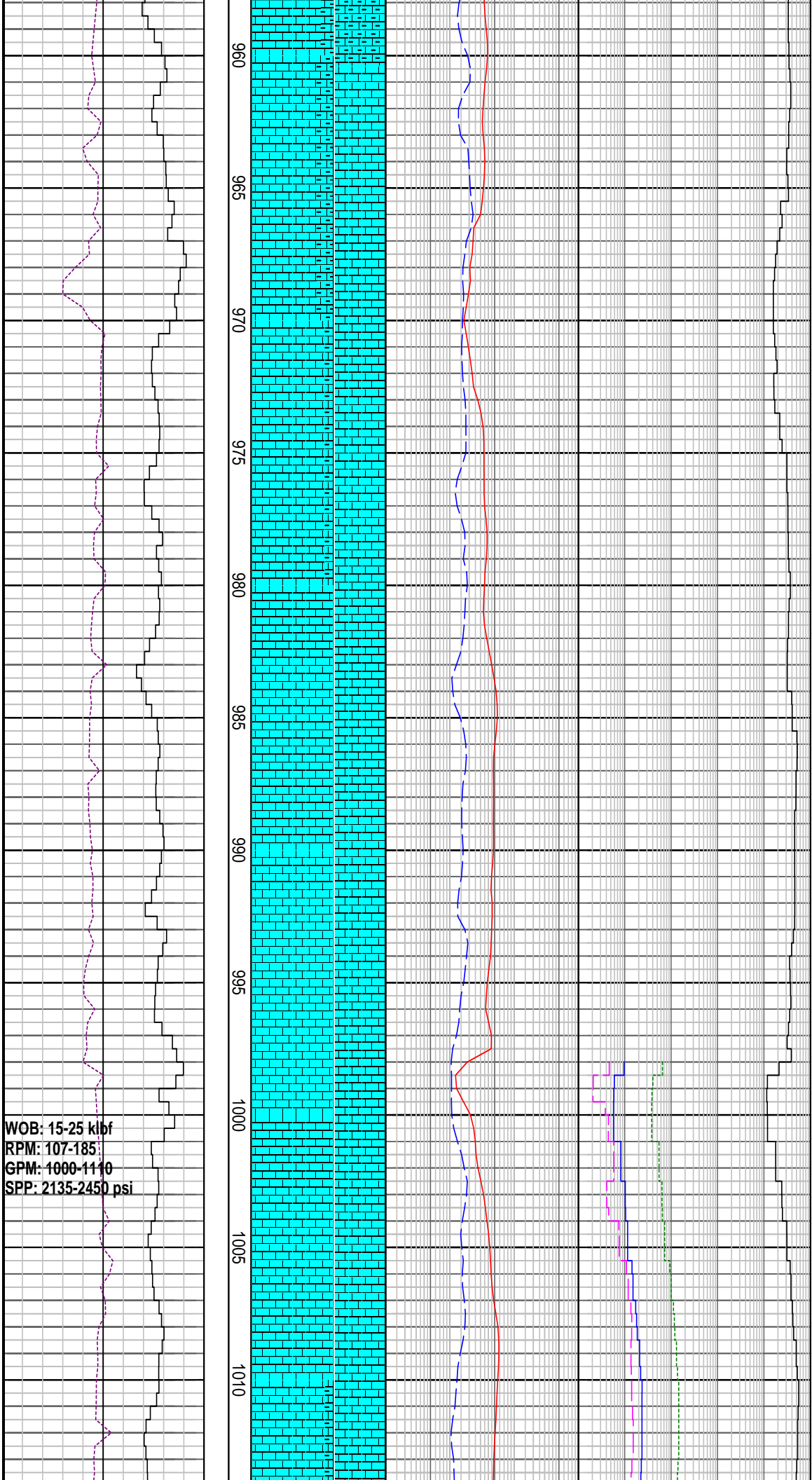
MD: 926.91m Azi: 152.99°
TVD: 926.9m Incl: 0.14°



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

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

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



WOB: 15-25 klbf
 RPM: 107-185
 GPM: 1000-1140
 SPP: 2135-2450 psi

CALCULITITE lt bl gy, mod sft, ang f
 gr slit 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 calc, calc cmt

CALCULITITE lt bl gy, mod sft, ang f
 gr slit 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

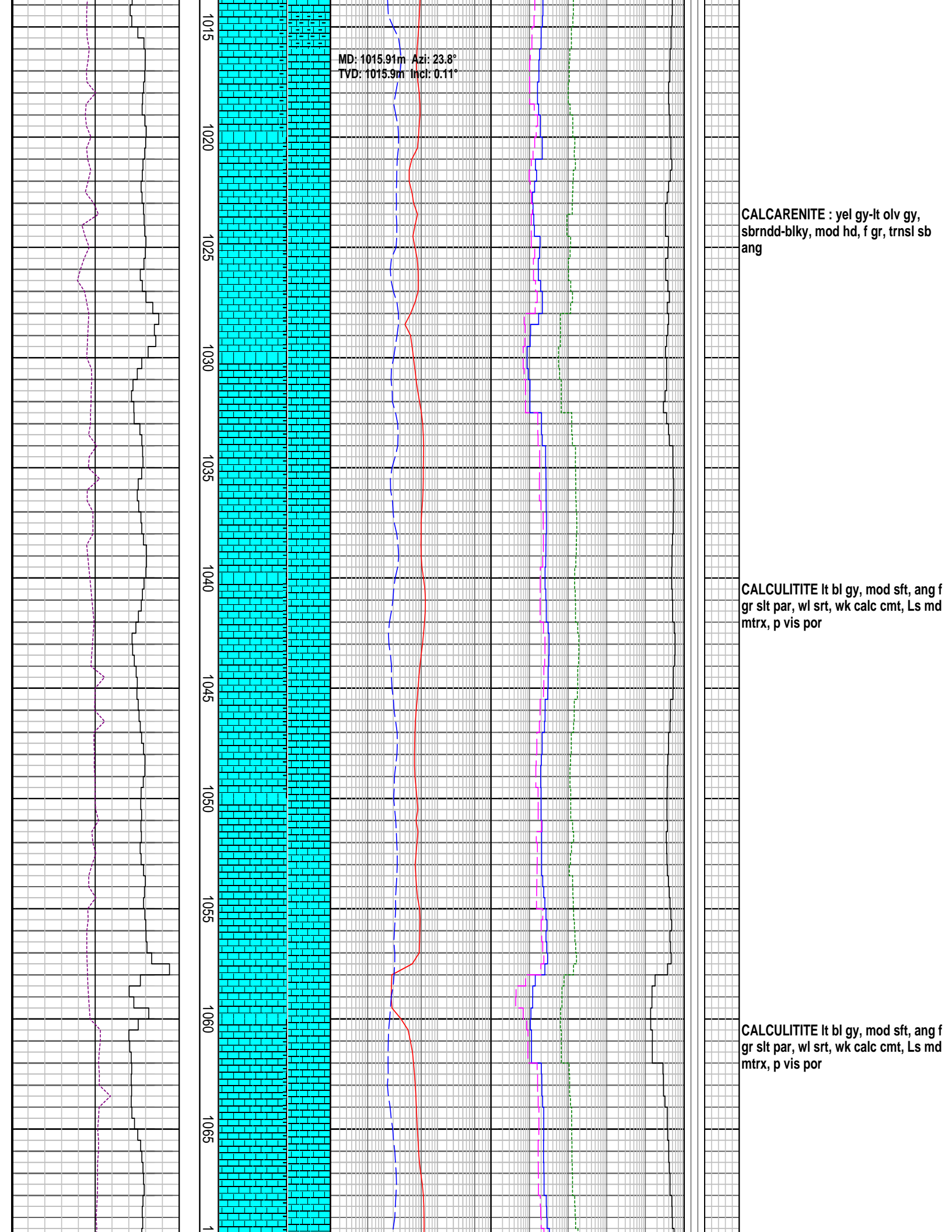
1015
1020
1025
1030
1035
1040
1045
1050
1055
1060
1065
1

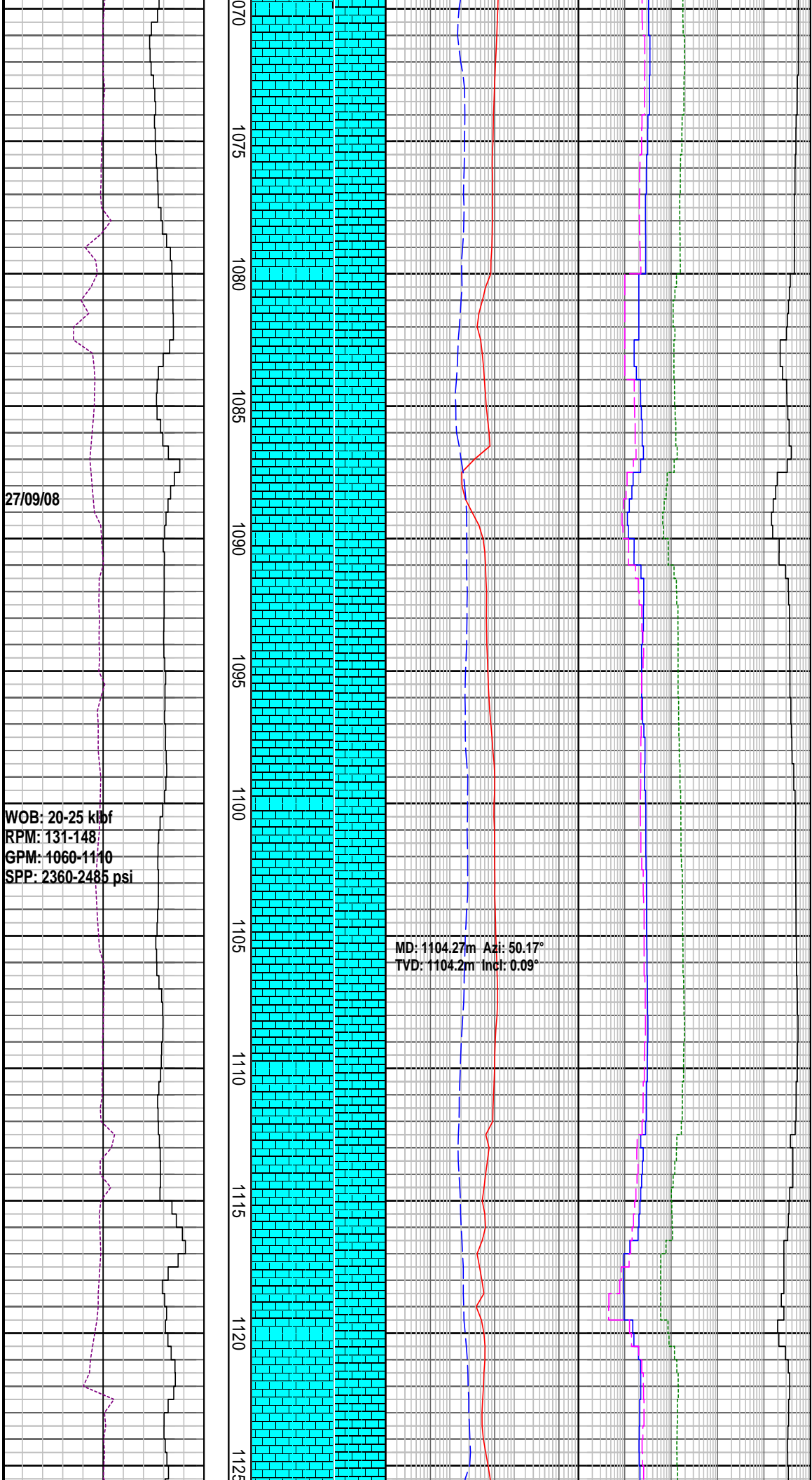
MD: 1015.91m Azi: 23.8°
TVD: 1015.9m Incl: 0.11°

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

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

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





27/09/08

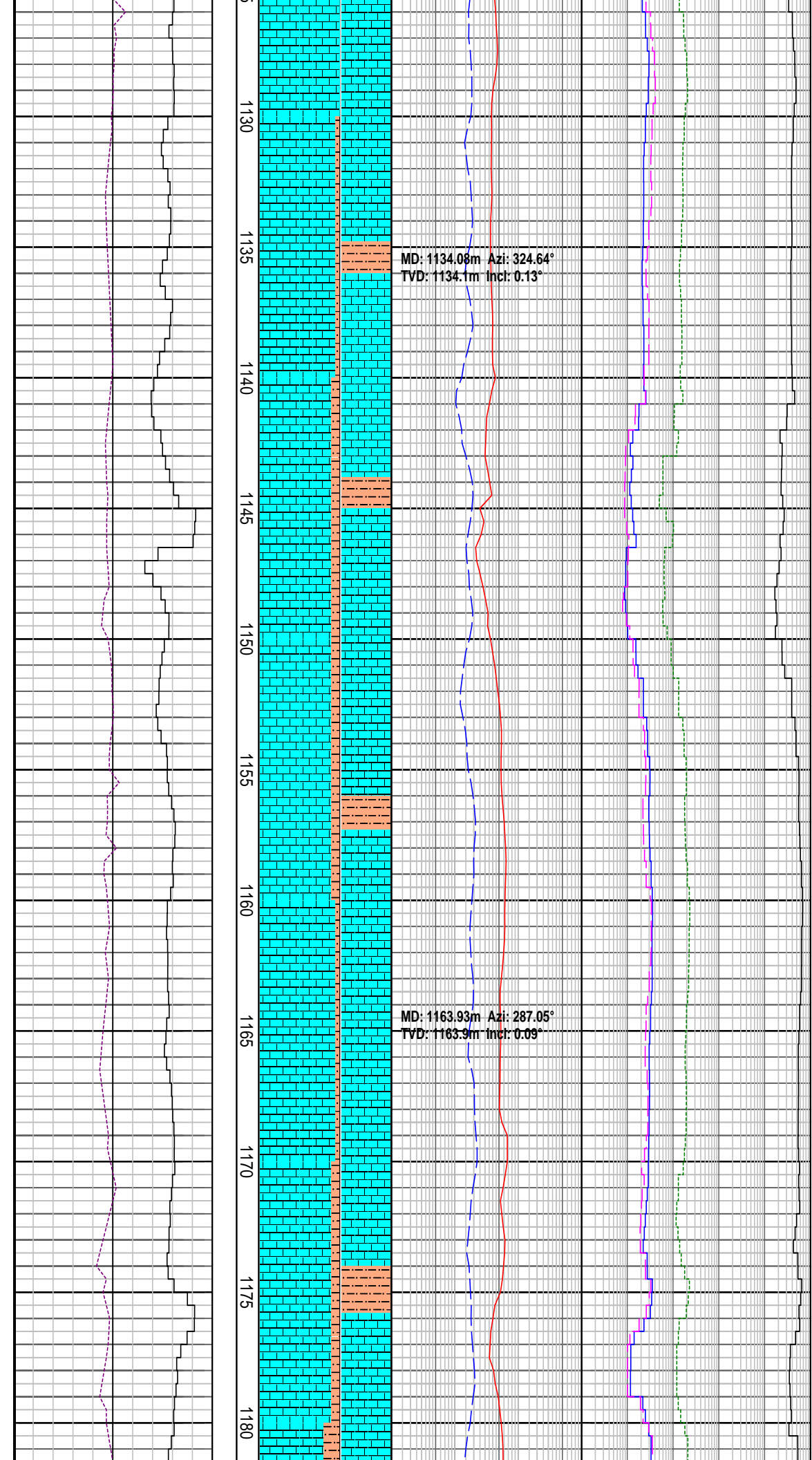
WOB: 20-25 klbf
RPM: 131-148
GPM: 1060-1110
SPP: 2360-2485 psi

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

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

CALCARENITE : It olv gy-m gy,
sbrndd-blky, mod hd, f gr, mod srt,
trnsi sb ang

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



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

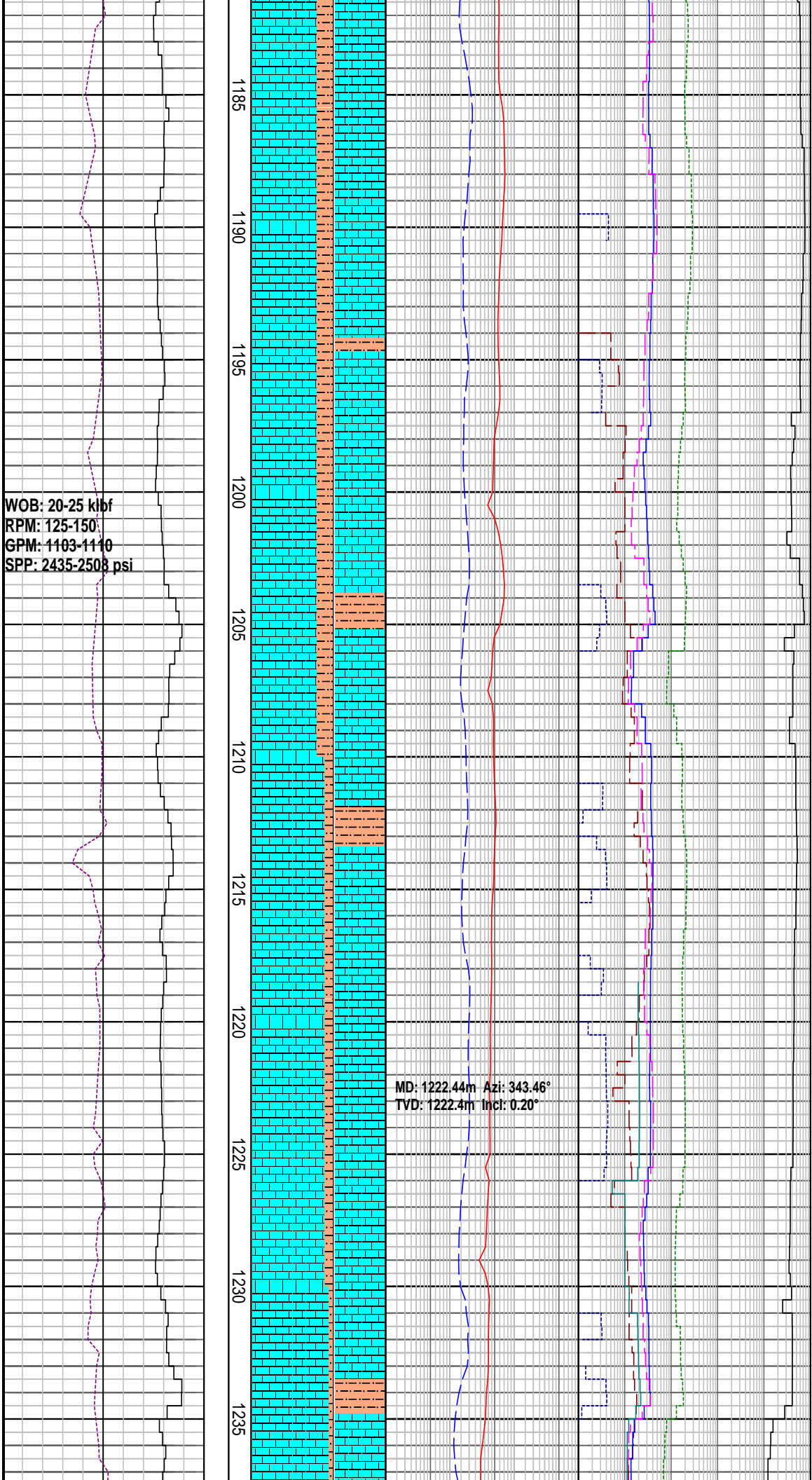
MD: 1134.08m Azi: 324.64°
TVD: 1134.1m Incl: 0.13°

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, sbbkly-blky, silty md, wll srt, com cals slt, lam, pr inf por

MD: 1163.93m Azi: 287.05°
TVD: 1163.9m Incl: 0.09°

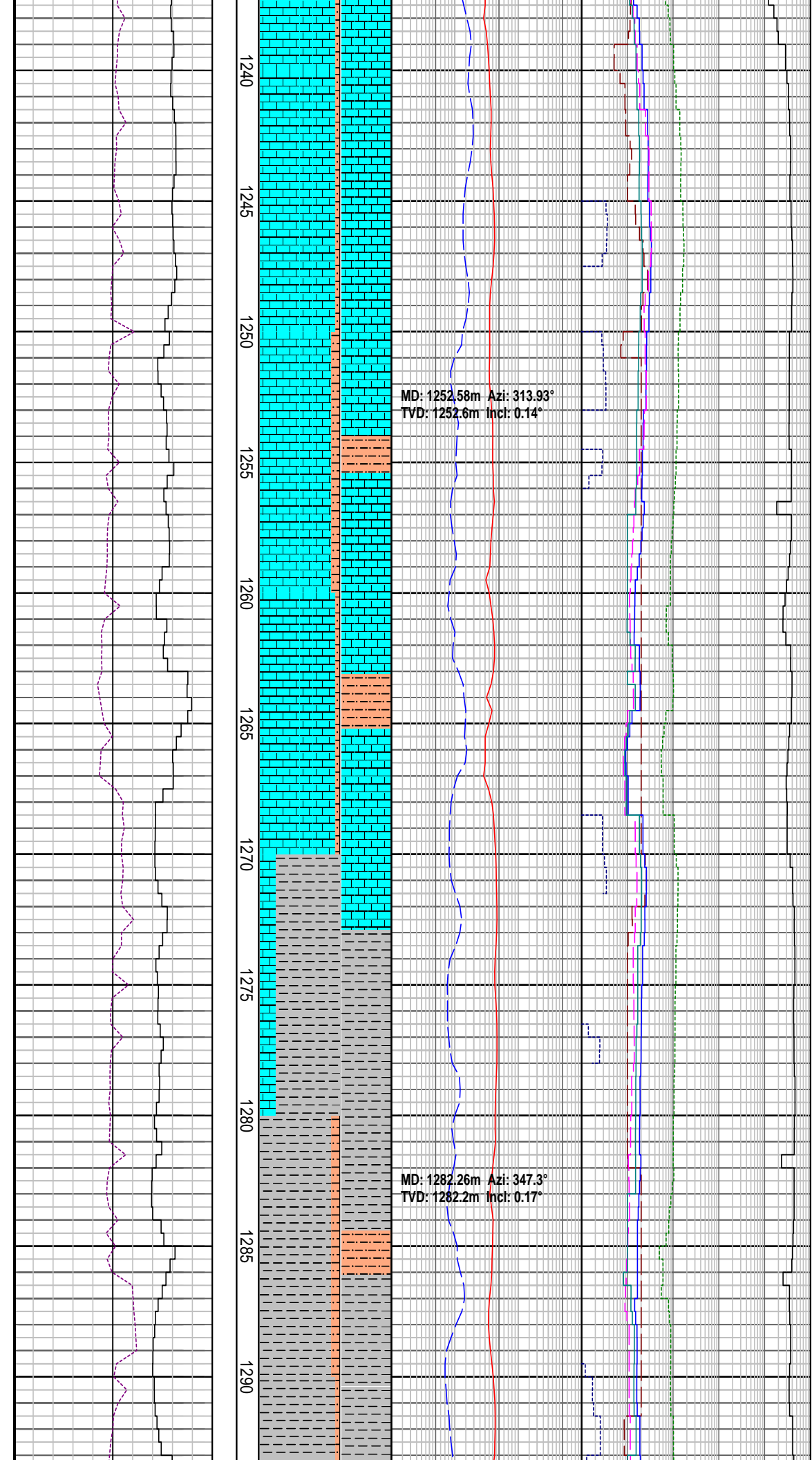
SILTSTONE: lt brn-dk brn, frm-mod hd, blky, mod calc



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



CALCULITITE: lt gy-med gy, lt bl gy-olv gy, sft-mod sft, amorp, frm i/p, sbblky-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-olv gy, sft-mod frm, sbblky-blky, sli slty, mod-hi calc, tr mic flks

WOB: 17-30 klbf
RPM: 127-150
GPM: 1097-1113
SPP: 2500-2581 psi

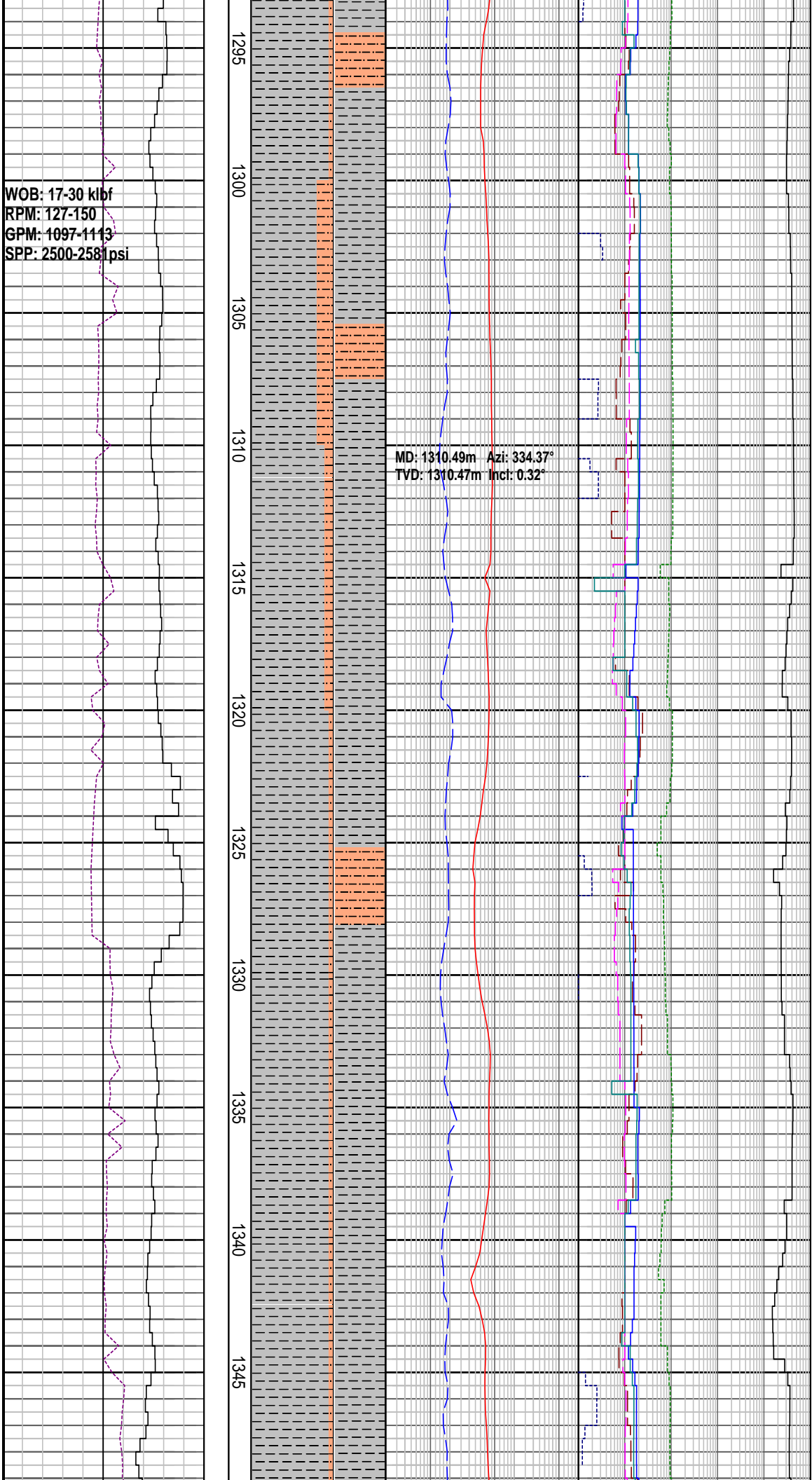
1295
1300
1305
1310
1315
1320
1325
1330
1335
1340
1345

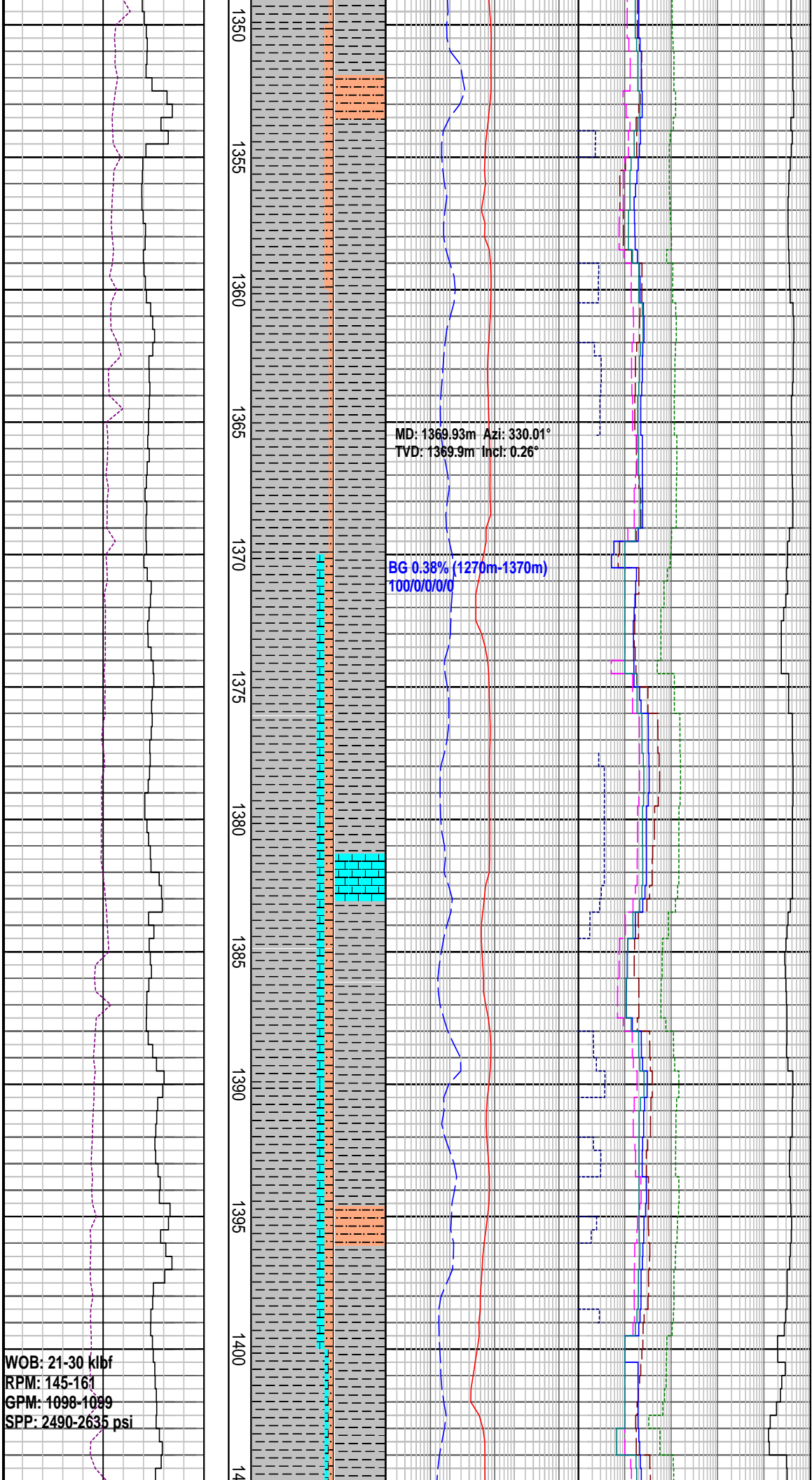
MD: 1310.49m Azi: 334.37°
TVD: 1310.47m Incl: 0.32°

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

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

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



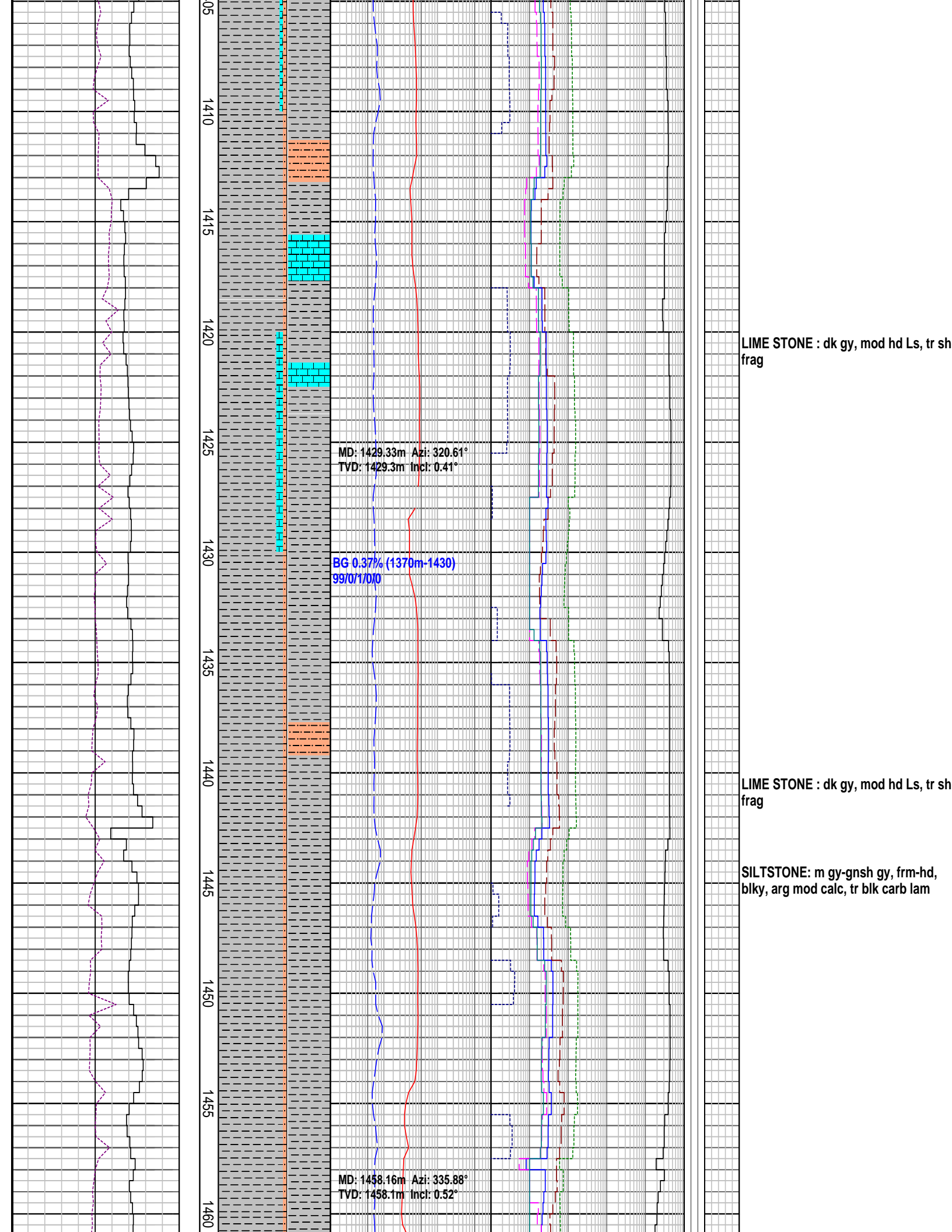


SILTSTONE: m gy-gn gy, frm-hd, blk, arg mod calc

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

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

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



05
1410
1415
1420
1425
1430
1435
1440
1445
1450
1455
1460

MD: 1429.33m Azi: 320.61°
TVD: 1429.3m Incl: 0.41°

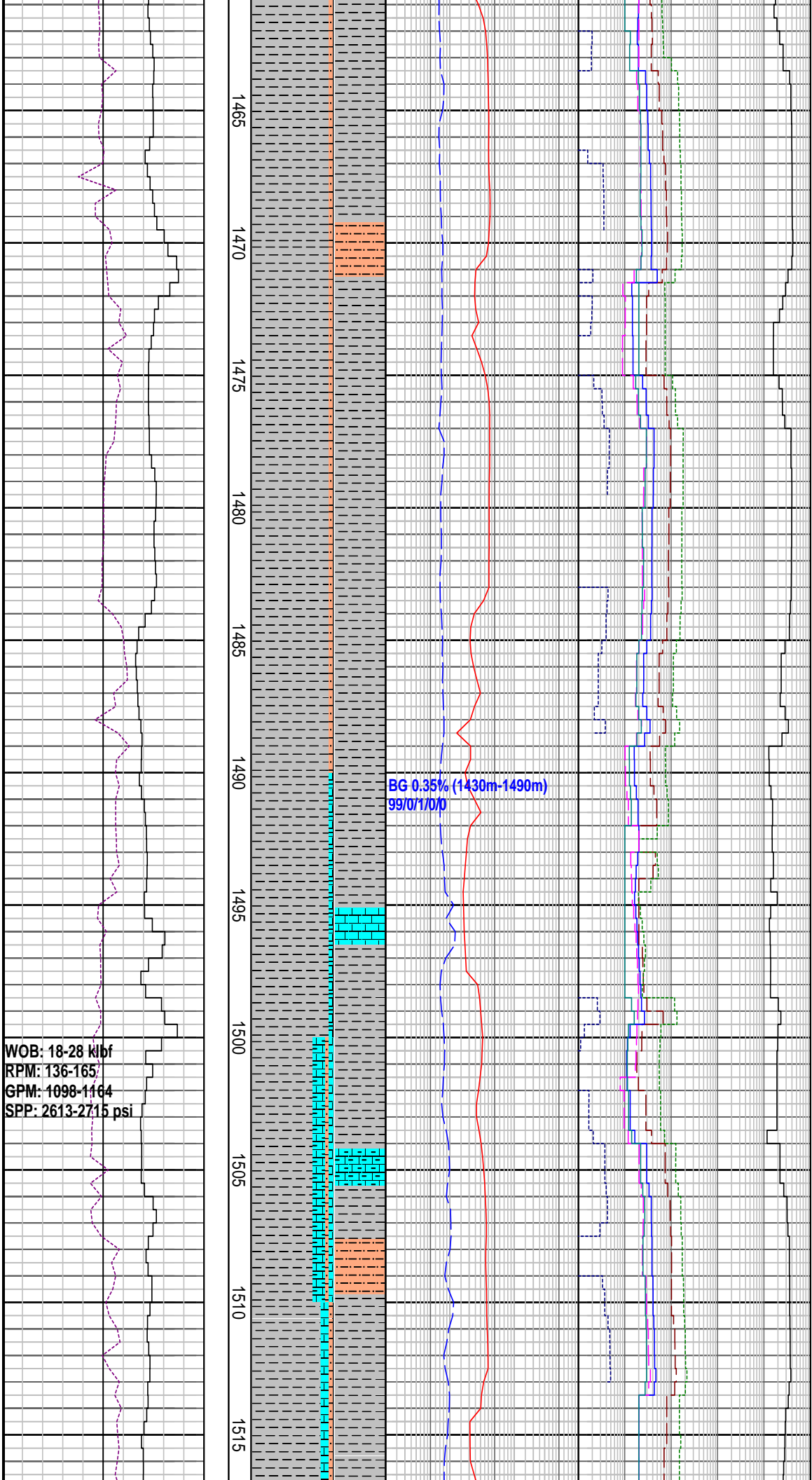
BG 0.37% (1370m-1430)
99/0/1/0/0

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

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

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

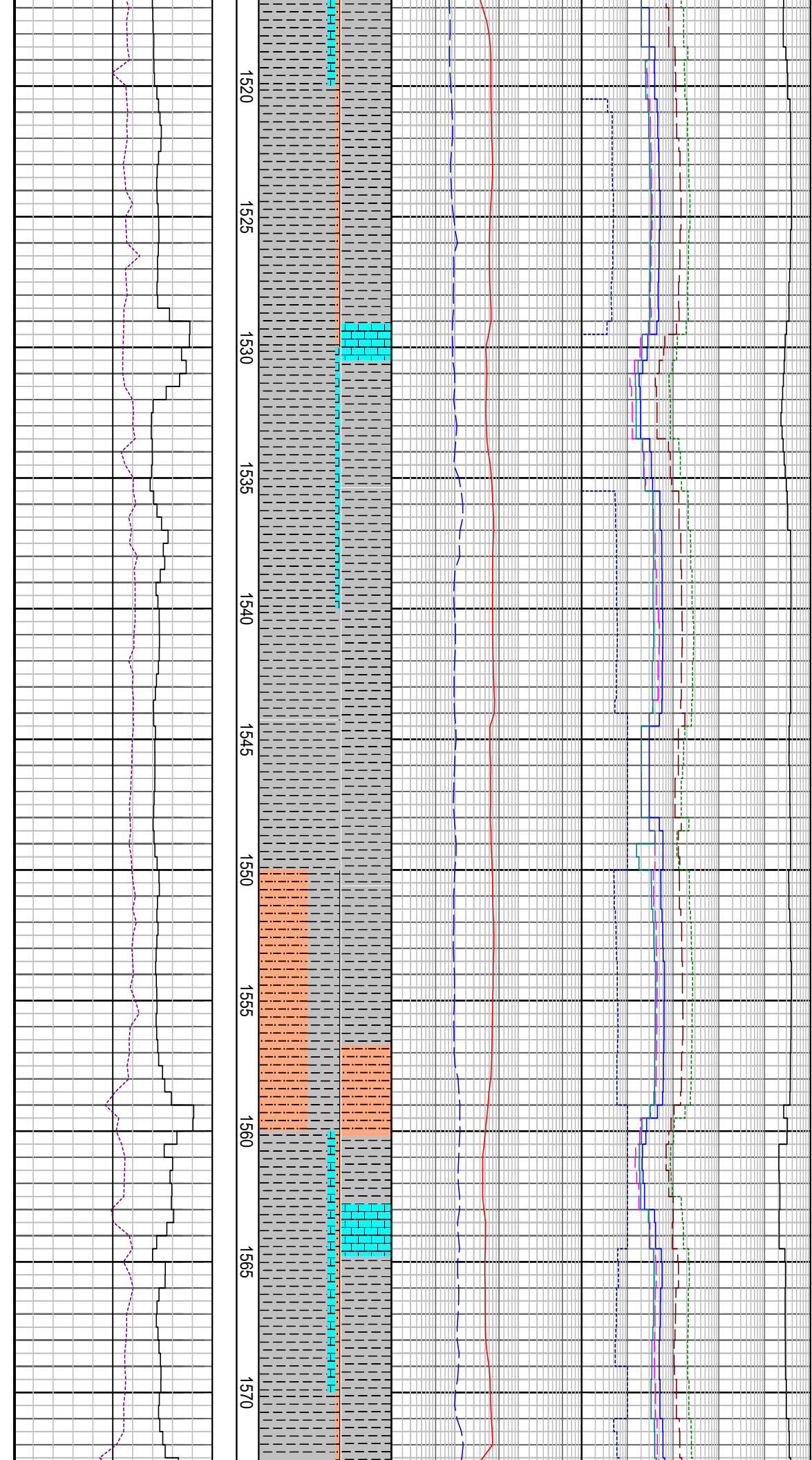
SILTSTONE: m gy-gnsh gy, frm-hd,
blk, arg mod calc, tr blk carb lam



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

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

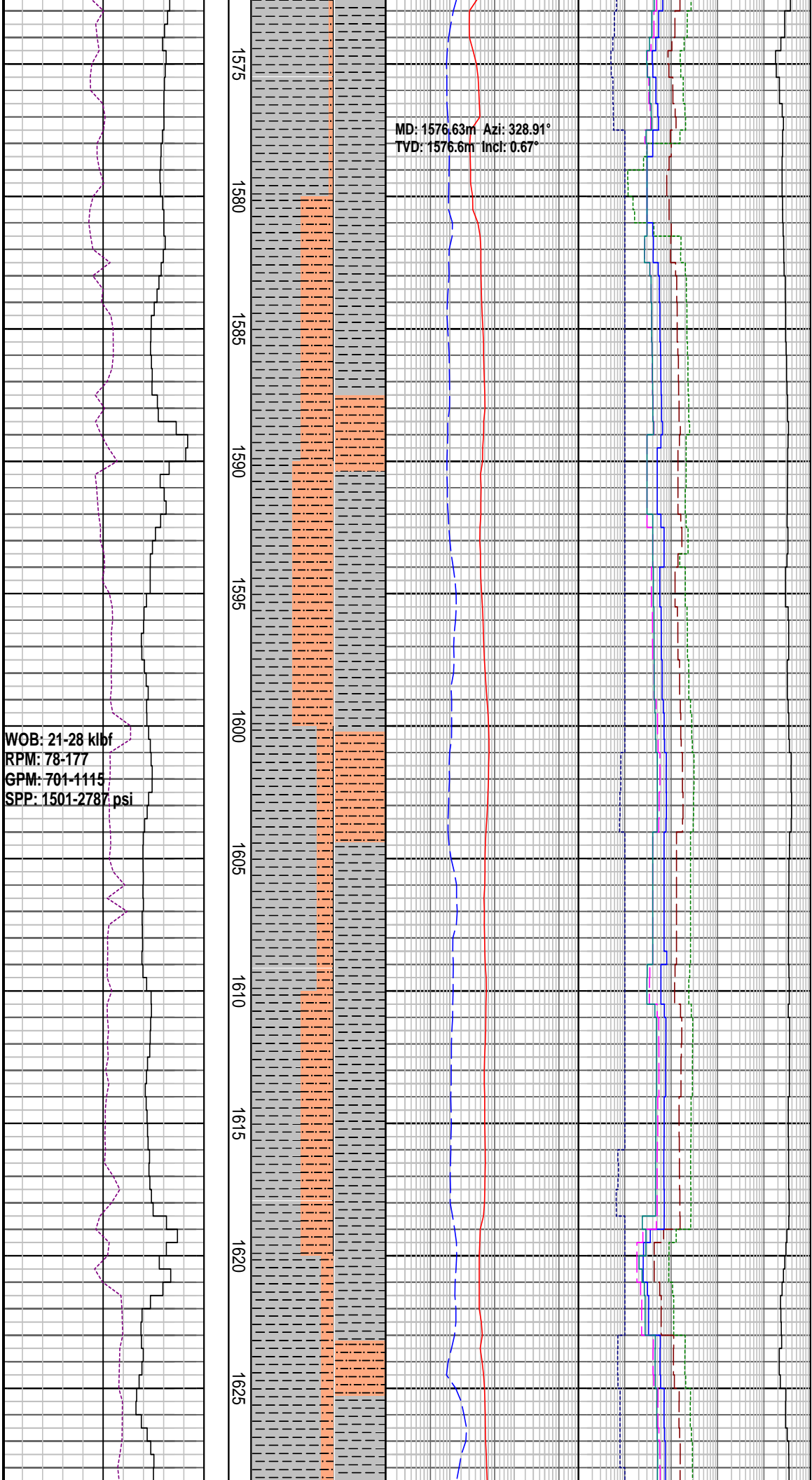


LIME STONE : gy yel, mod hd Ls, xln calc mnr wh sft amor Ls, tr shl frag

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

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°

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

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 slty, mod-hi calc, tr mic filks, grdg to ClcIt

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

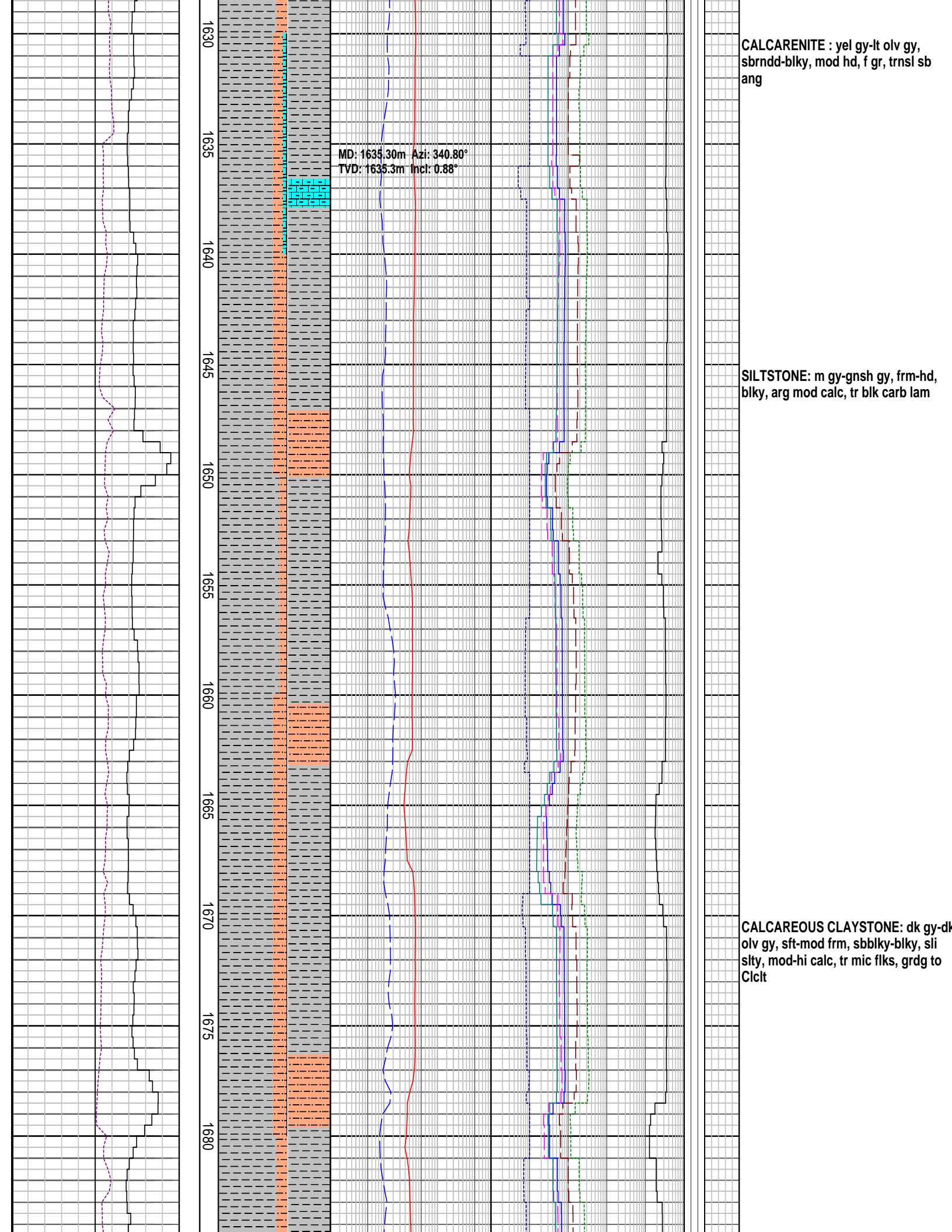
1630
1635
1640
1645
1650
1655
1660
1665
1670
1675
1680

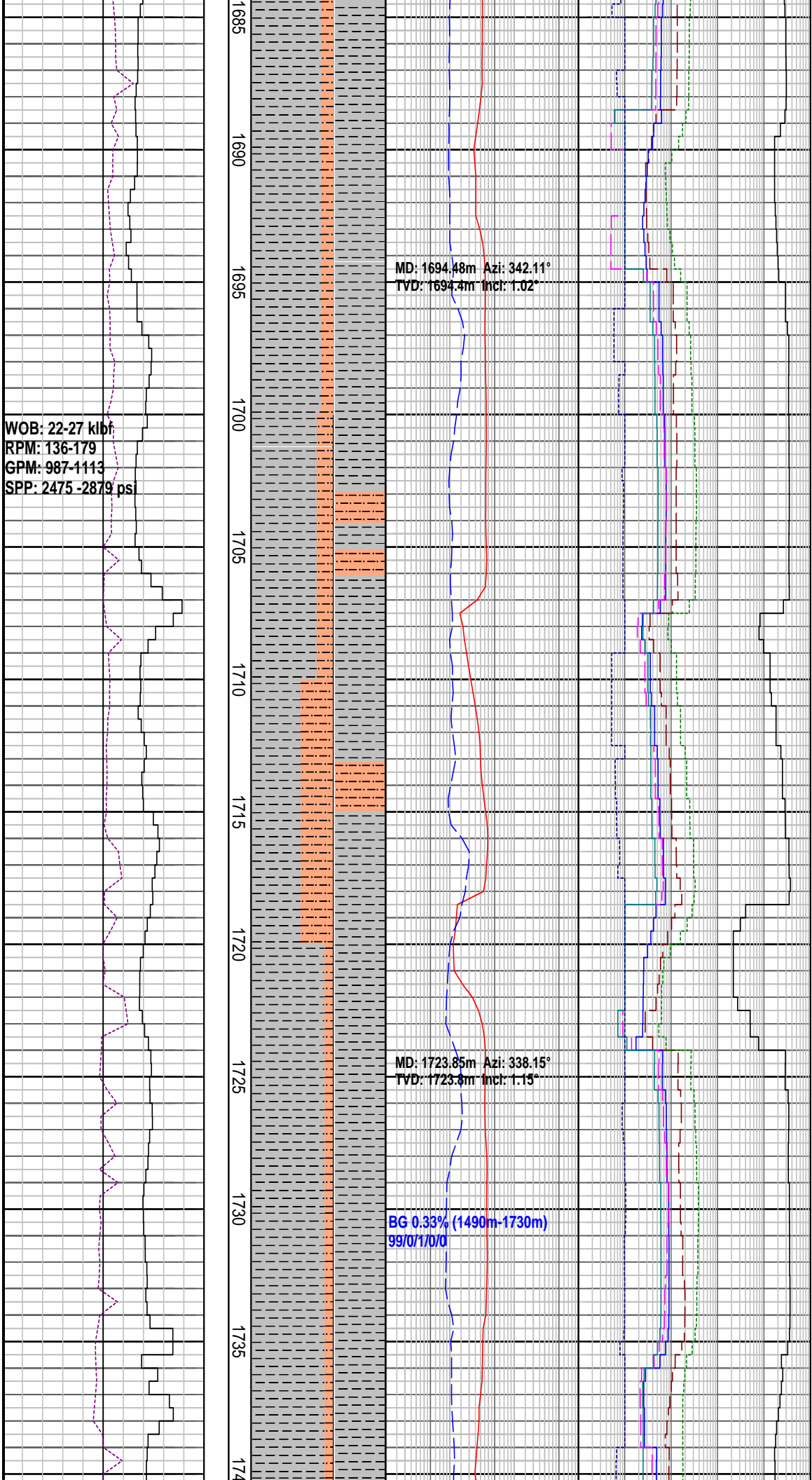
MD: 1635.30m Azi: 340.80°
TVD: 1635.3m Incl: 0.88°

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

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

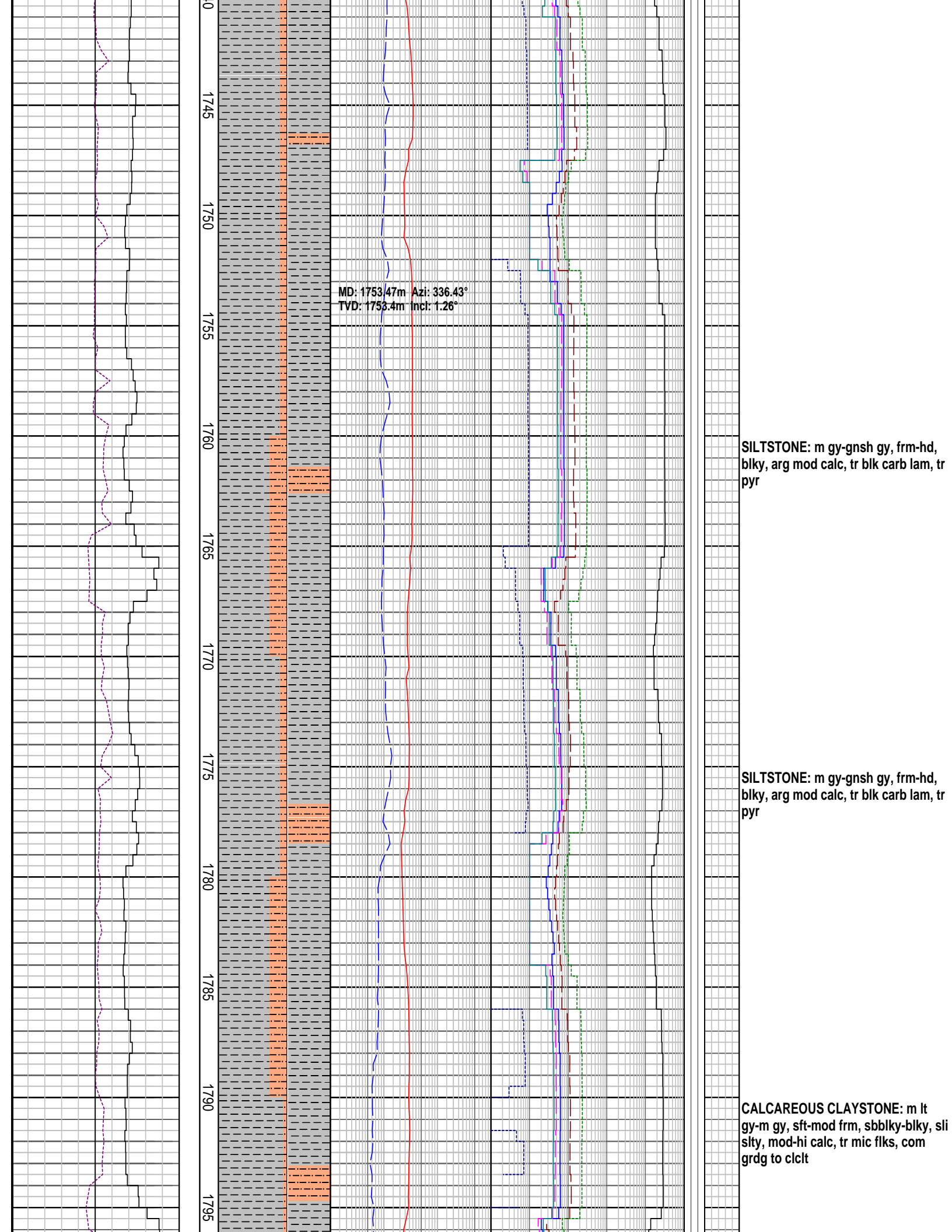
CALCAREOUS CLAYSTONE: dk gy-dk
olv gy, sft-mod frm, sbblky-blky, sli
silty, mod-hi calc, tr mic flks, grdg to
ClcIt





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

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



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

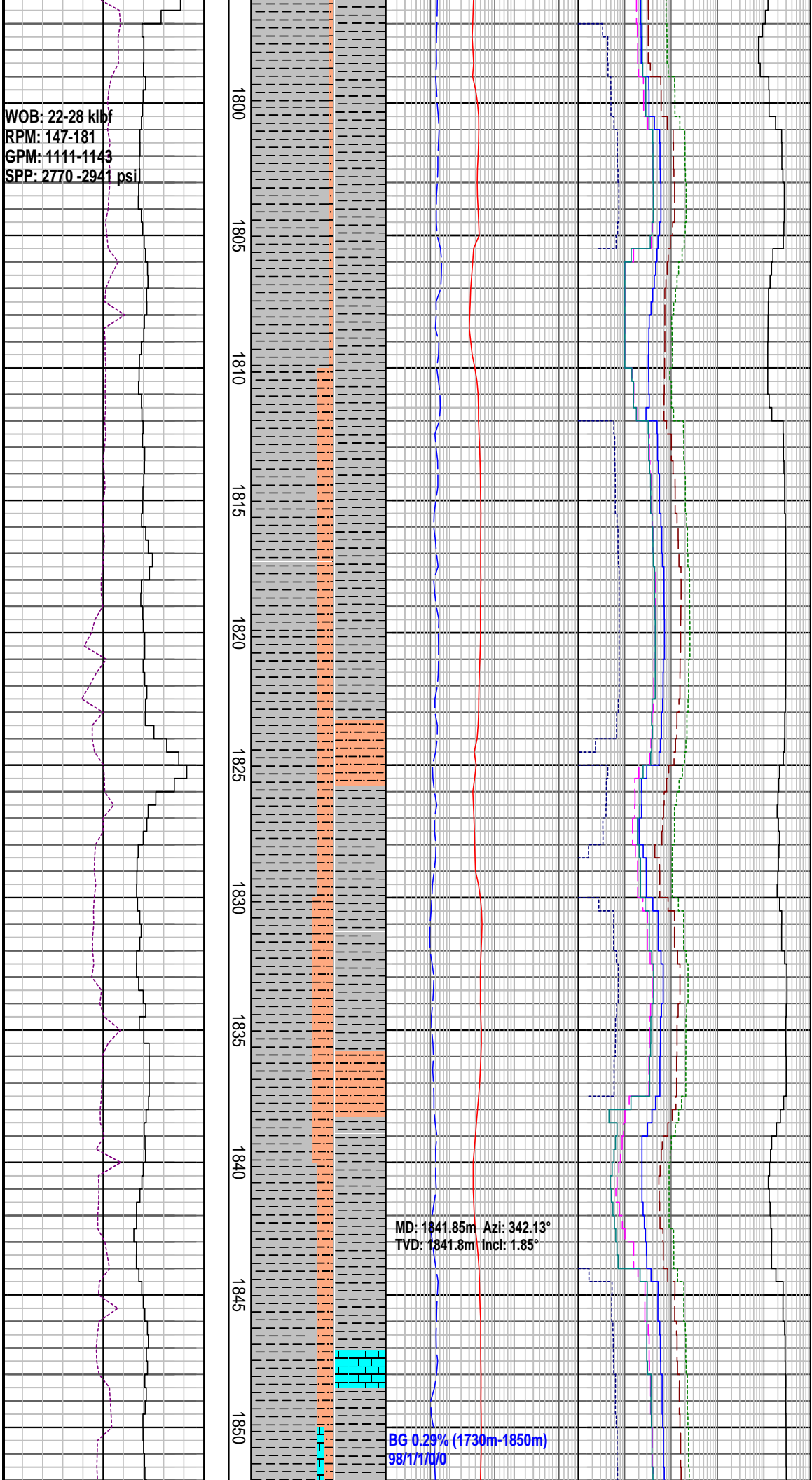
SILTSTONE: m gy-gnsh gy, frm-hd, blky, arg mod calc, tr blk carb lam, tr pyr

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 clclt

WOB: 22-28 kbf
RPM: 147-181
GPM: 1111-1143
SPP: 2770 -2941 psi

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

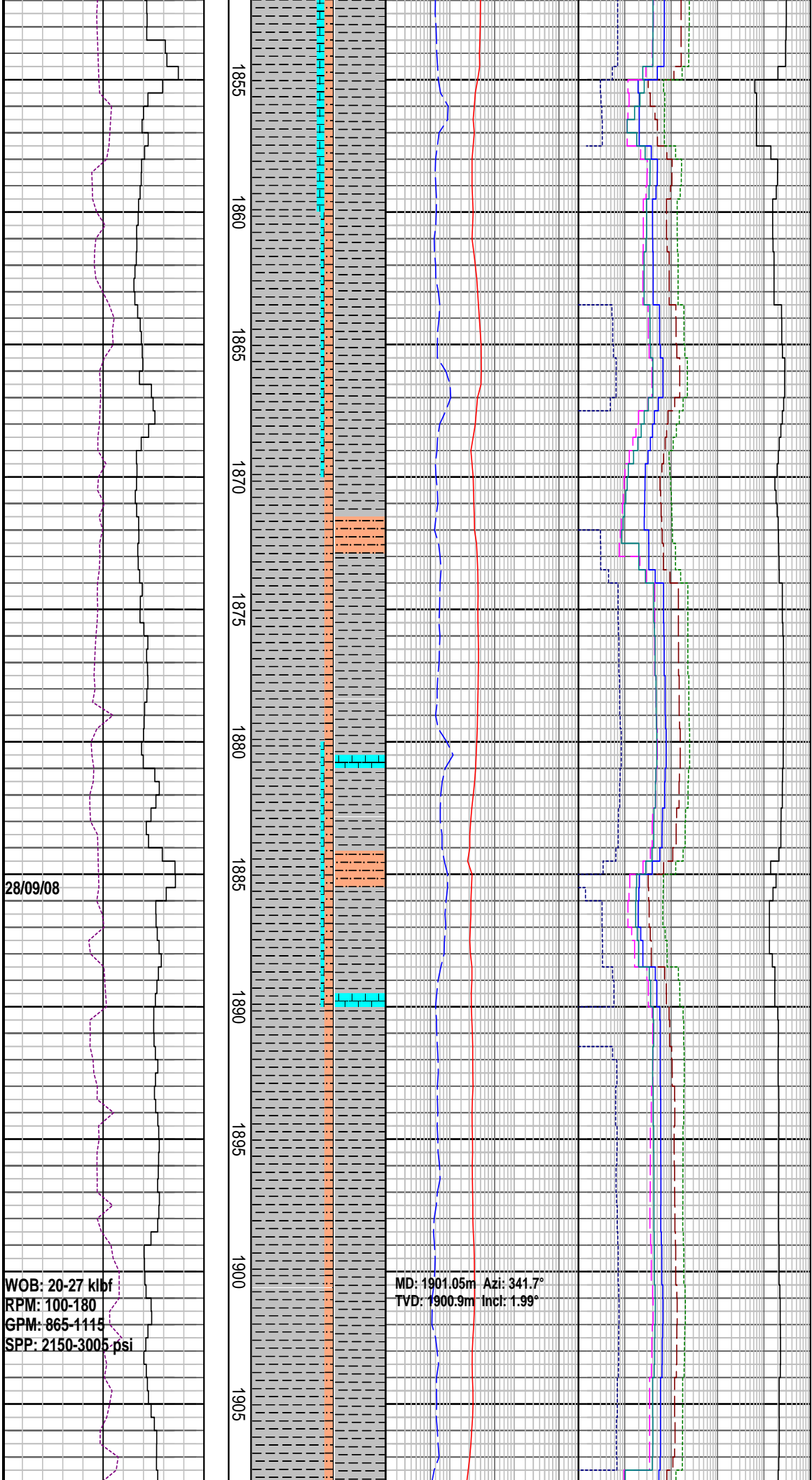


SILTSTONE: m gy-gnsh gy, frm-hd, blk, arg mod calc, tr blk carb lam

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

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

BG 0.29% (1730m-1850m)
98/1/1/0/0



CALCARENITE: wh pl gy-gnsh gy, sbbly, 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, sbbly-blky, sli sly, tr carb flks, mod-hi calc, com grdg to cltct, tr foam

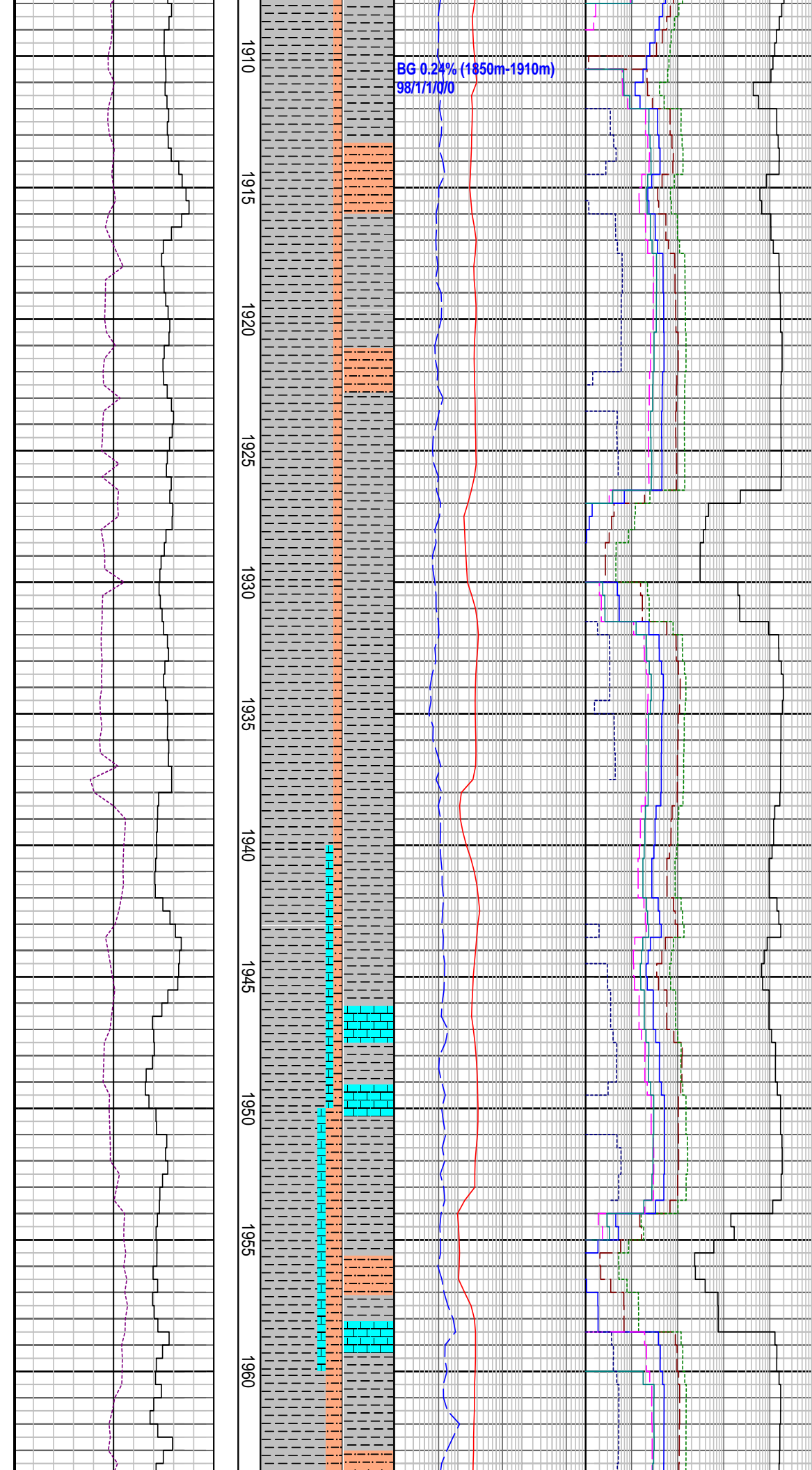
CALCARENITE: wh pl gy-gnsh gy, sbbly, sft frm-amor hd, f gr, mod srt, opq sbang-sbrndd cak, tr com gr f-med gr glau, pr inf por

CALCAREOUS CLAYSTONE: med lt gy-brn gy, mod frm, sbbly-blky, sli sly, tr mic flks, tr carb flks, mod-hi calc, grdg to cltct, tr foam

28/09/08

WOB: 20-27 klbf
 RPM: 100-180
 GPM: 865-1115
 SPP: 2150-3005 psi

MD: 1901.05m Azi: 341.7°
 TVD: 1900.9m Incl: 1.99°

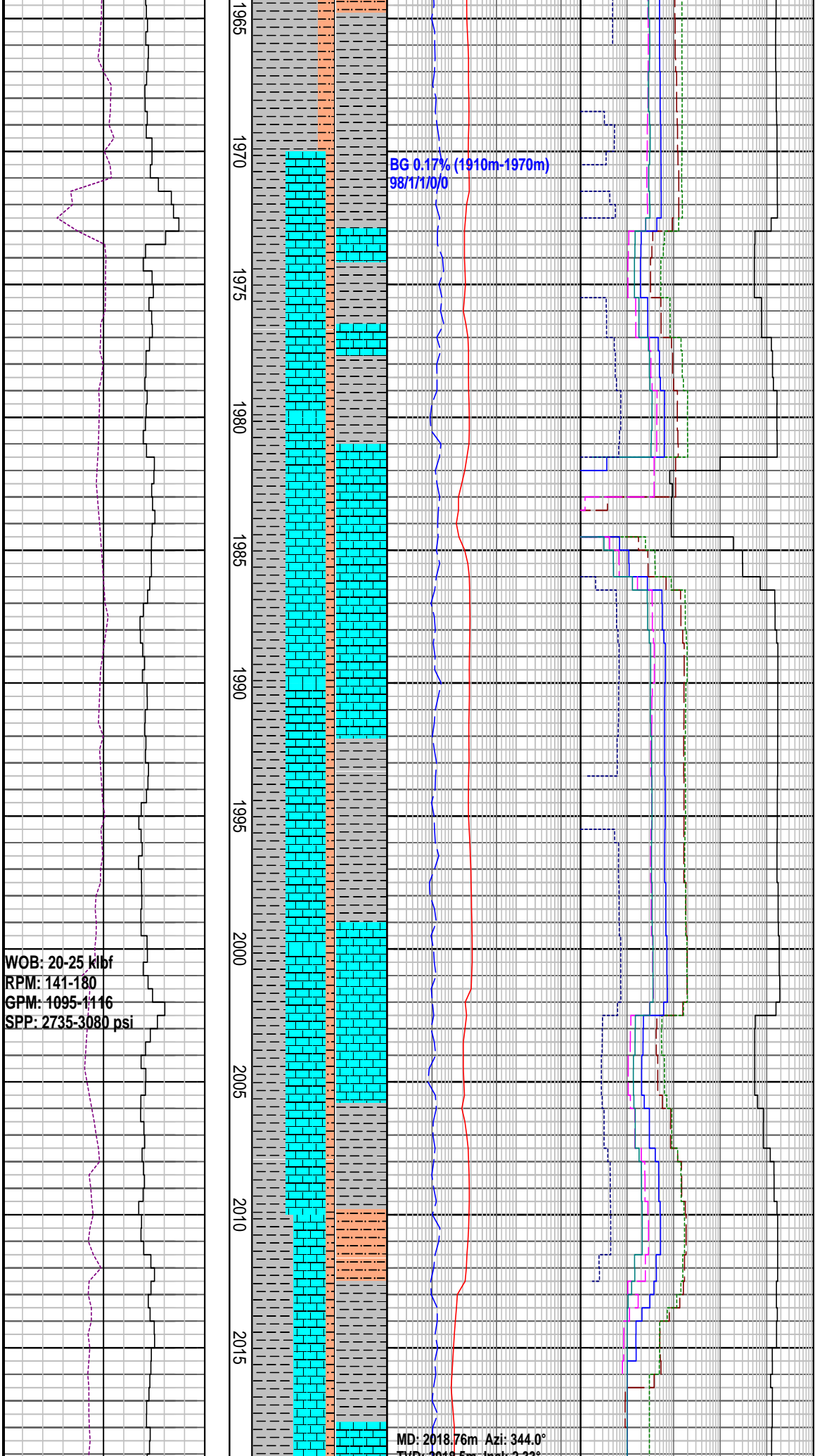


calc, gray to black, tr foam

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

CALCARENITE: lt olv-gy, gnsh gy, sbblky 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, blky arg, mod-hi calc, tr blk carb lam, tr pyr



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

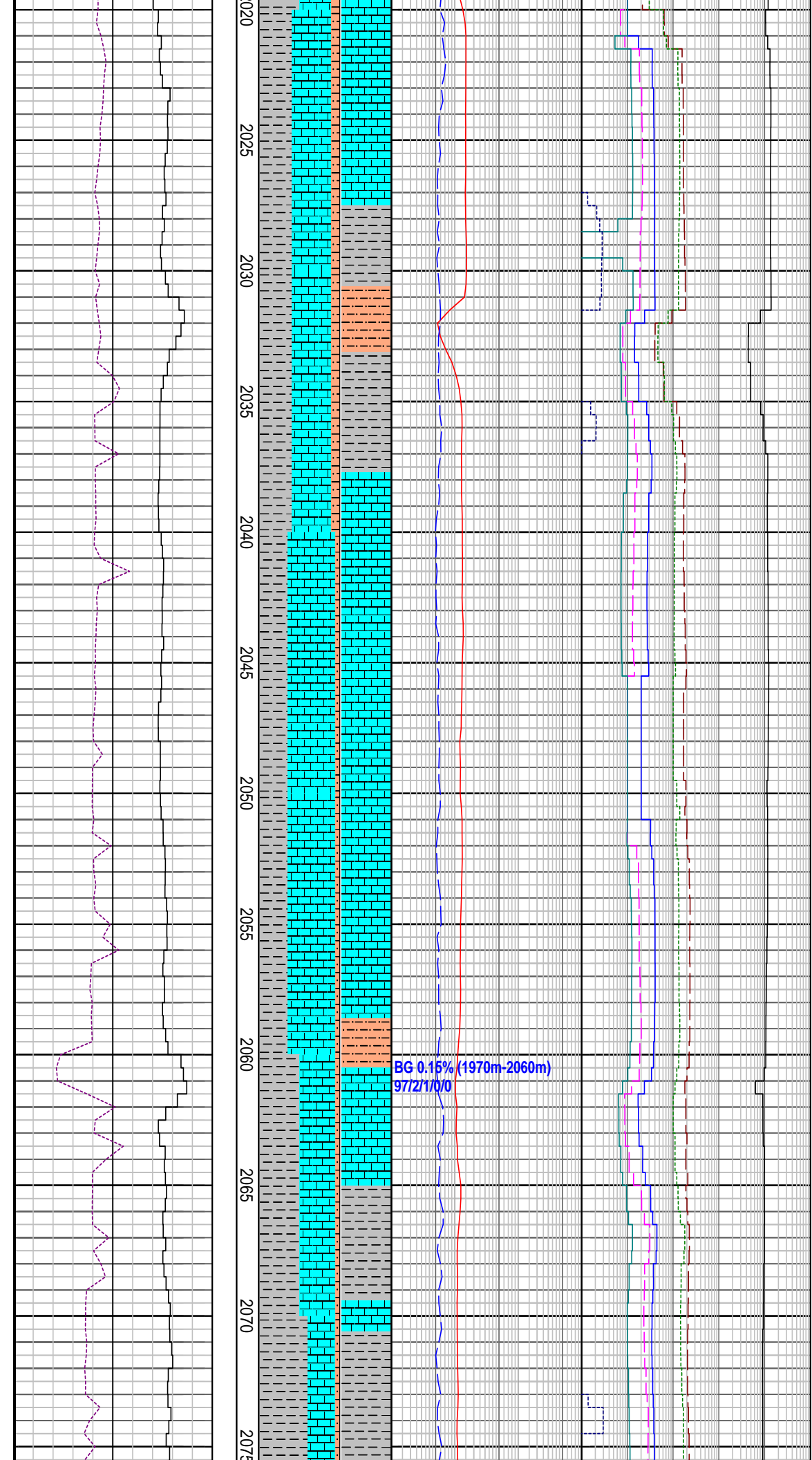
BG 0.17% (1910m-1970m)
 98/1170/0

MD: 2018.76m Azi: 344.0°
 TVD: 2018.5m Incl: 2.33°

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

CLAYSTONE: m lt gy-m gy, mod frm,
 sbbkly-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, sbbkly, com cal slt

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

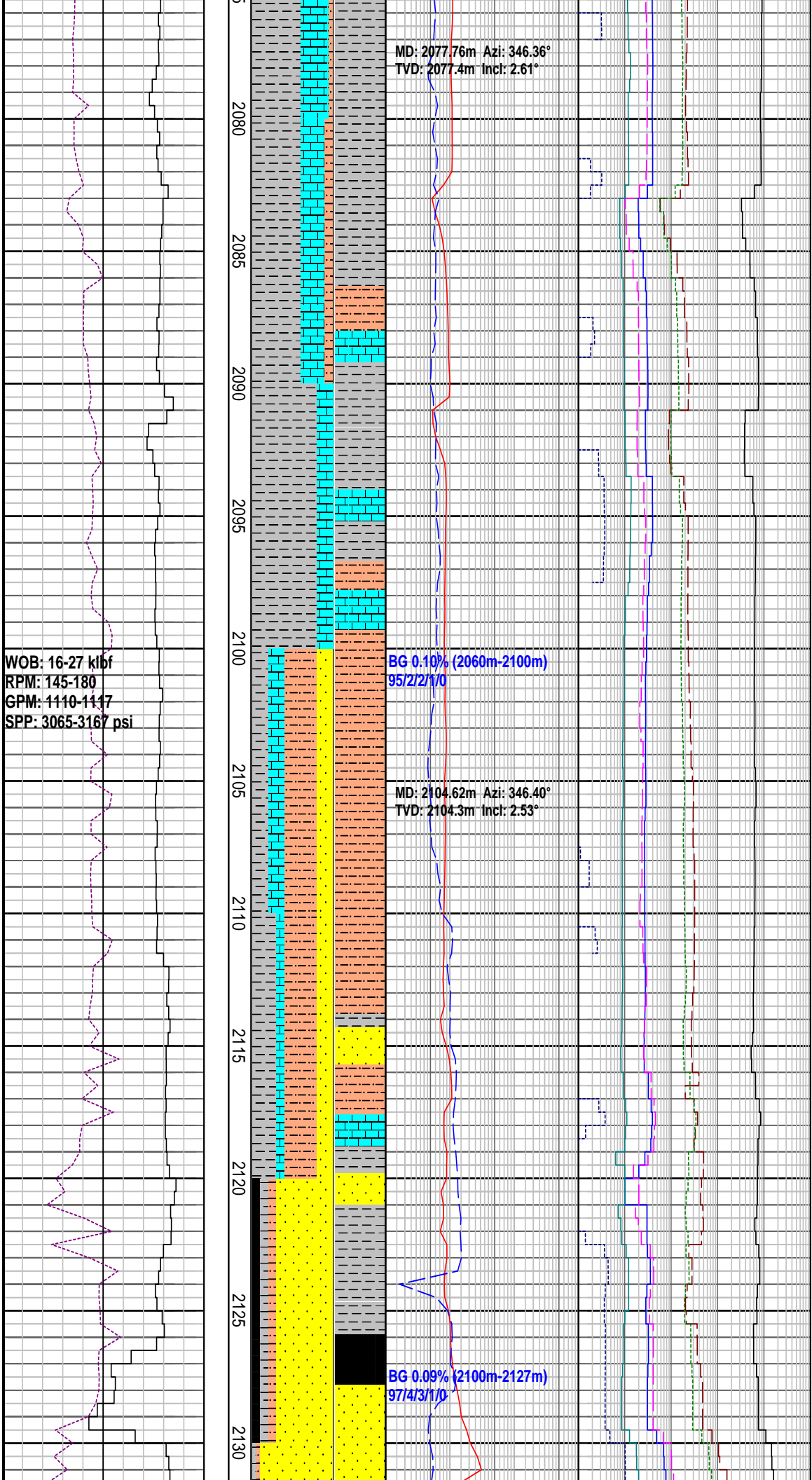
CLAYSTONE : m lt gy-m gy, mod frm, sbbkly-blky, sli slt, tr mic flks, tr carb flks, mod-hi calc, tr blk carb lam

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

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

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

BG 0.15% (1970m-2060m)
97/2/1/0/0



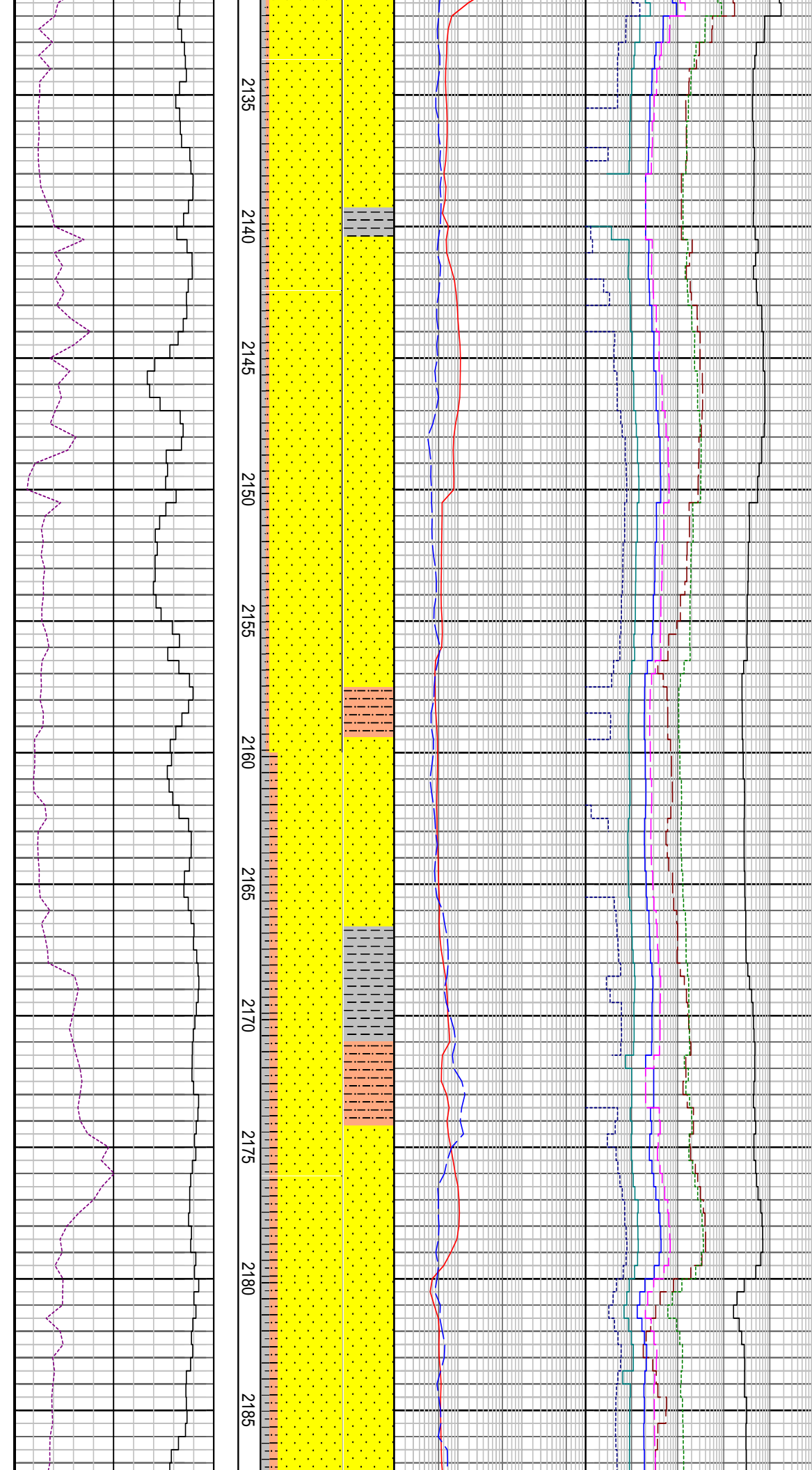
CLAYSTONE: m lt gy-m gy, mod frm, sbbky-blky, sli slty, tr mic, tr carb flks, mod-hi calc i/p, grdg to Clclt, tr foam

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

GLAUCONITIC SANDSTONE: wh-lt gy, gnsh gy, frm-hd, blky, 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 vel lse occ ang f gr m-crs granule



yel, lsc, 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

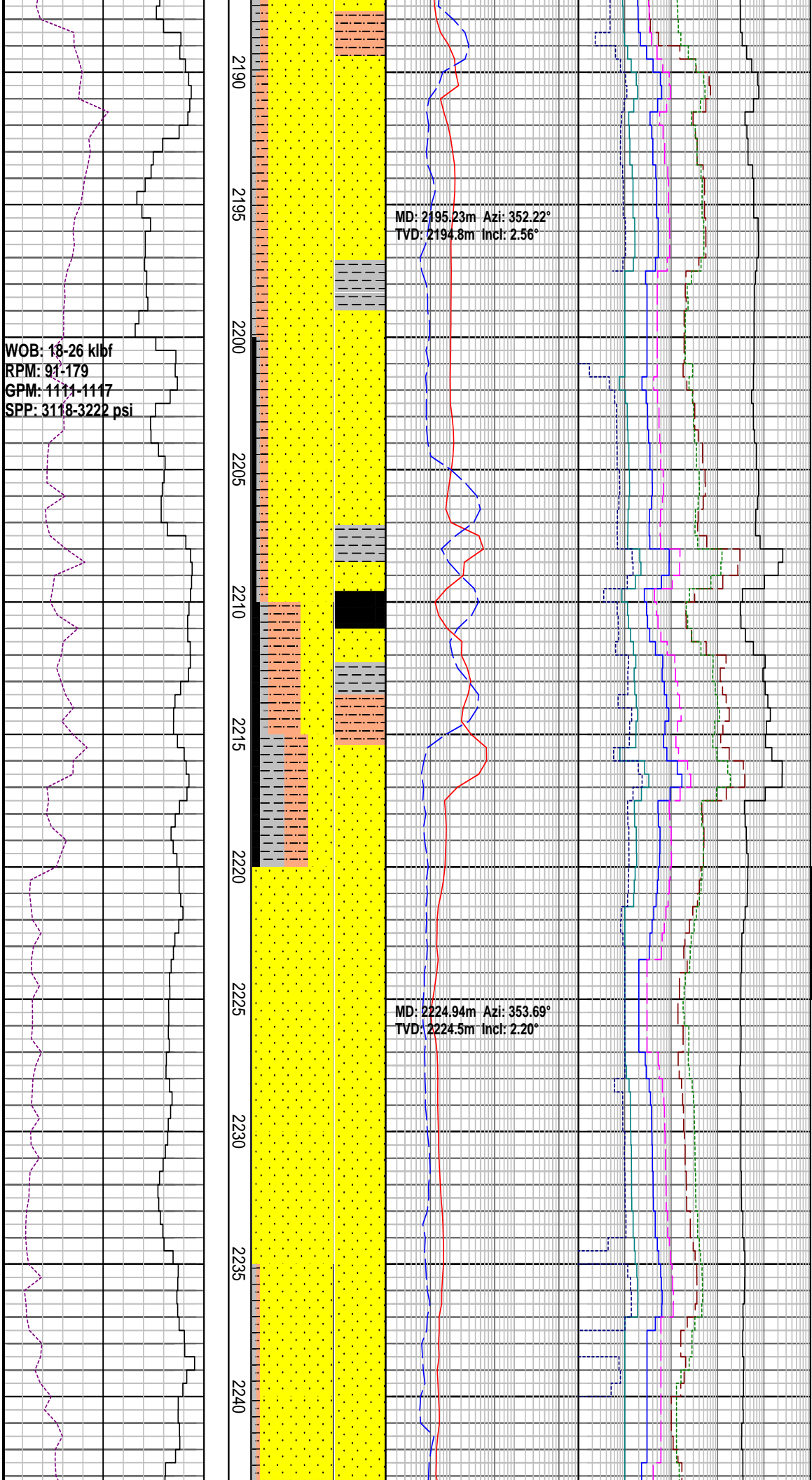
CLAYSTONE: lt-m gy, mod frm-hd,
 sbbky-blky, tr carb flks, tr mic flks,
 mod calc

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

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

CLAYSTONE: lt-m gy, mod frm-hd,
 sbbky-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, sbrn-dd-rn-dd, sbsph, trnsl-fros qtz, broken i/p, tr lse f-granule pyr, tr pyr qtz

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

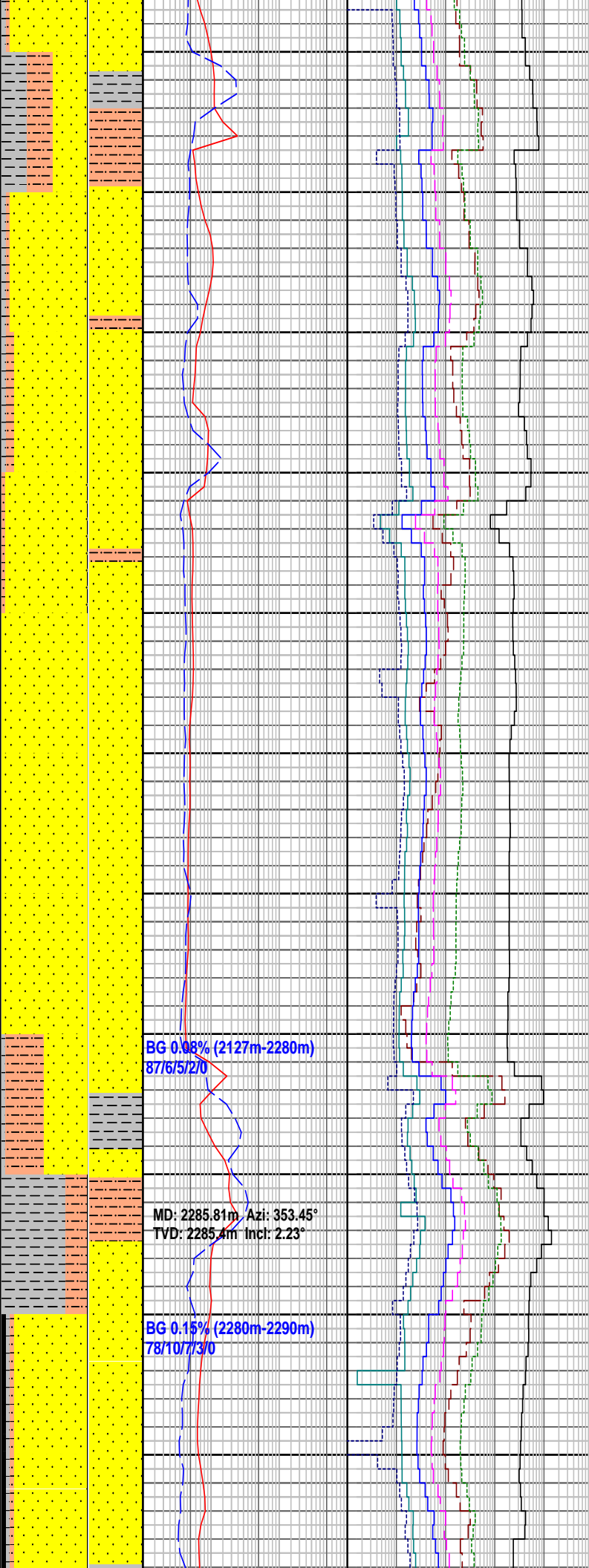
SILTSTONE: mod olv brn-dk gy, frm-hd, arg-carb, n calc

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

2245
2250
2255
2260
2265
2270
2275
2280
2285
2290
2295



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, sbrnrd-rndd, sbsph, trnsl-fros qtz, broken i/p, tr pyr qtz

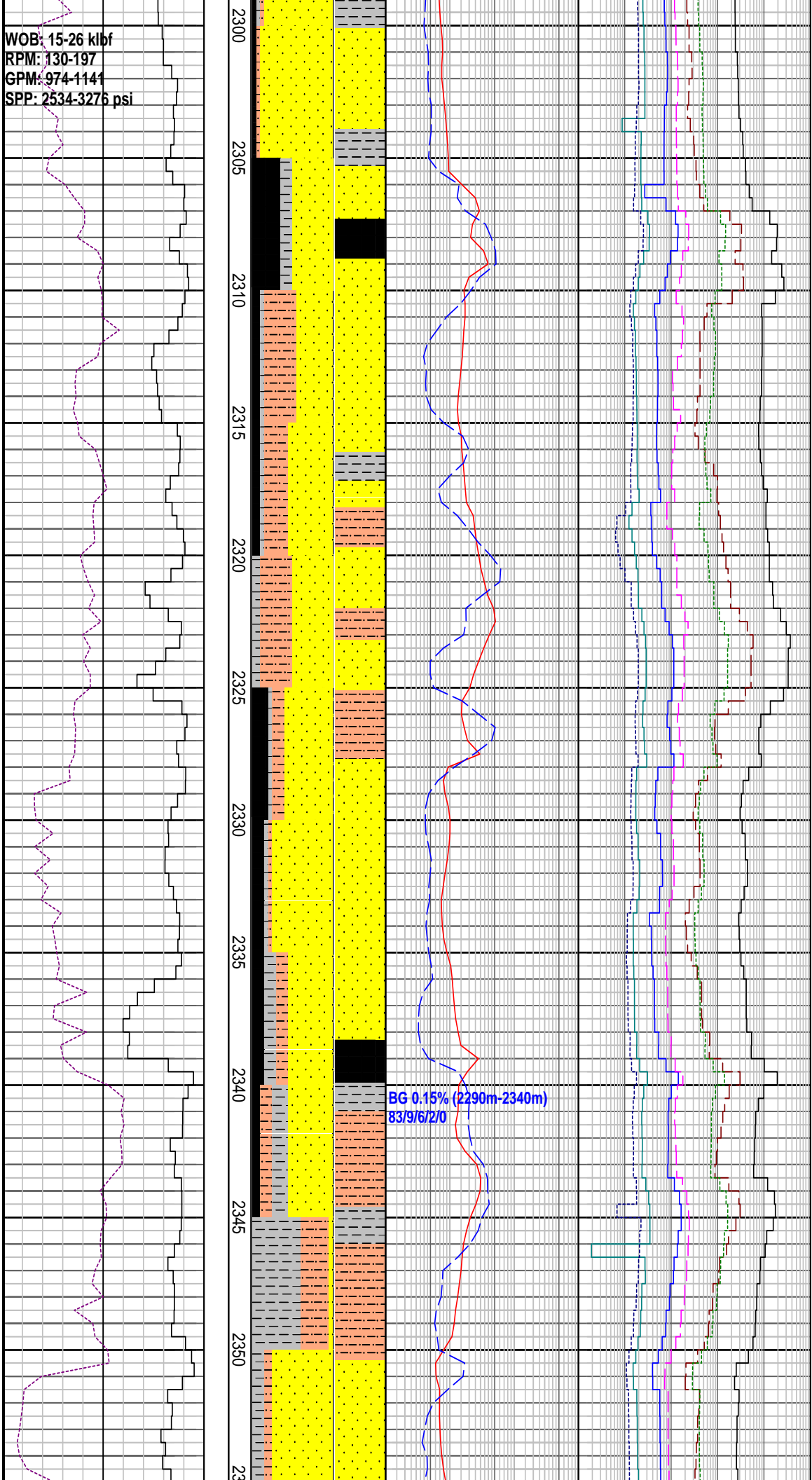
MW: 9.3 ppg	FV: 82
PV: 23	YP:38
Gels: 11/19/25	pH: 8.5

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

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

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

WOB: 15-26 klbf
RPM: 130-197
GPM: 974-1144
SPP: 2534-3276 psi



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, sbrn-dd-rn-dd,
sbsph, trnsl-fros qtz, broken i/p

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

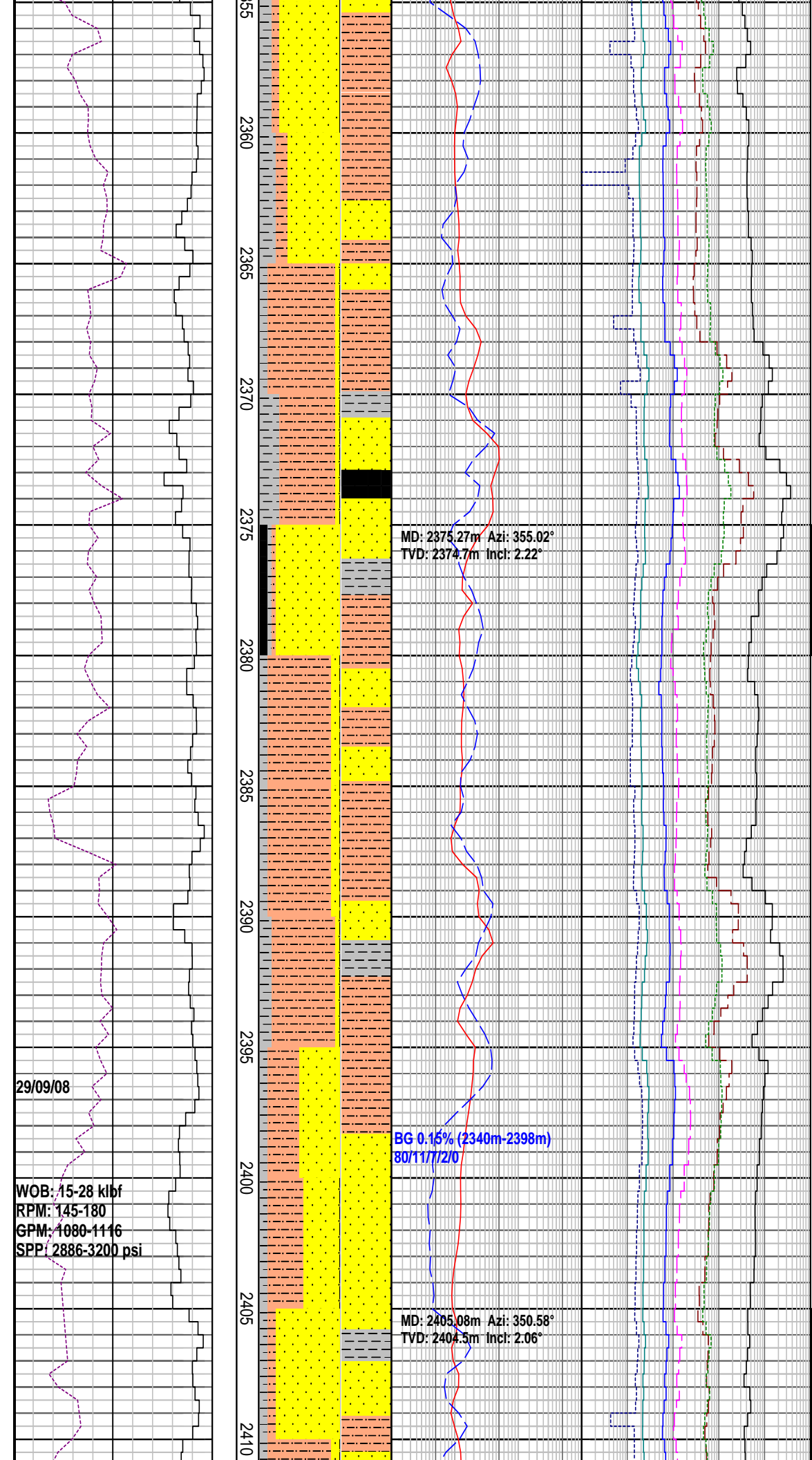
SANDSTONE: wh-lt gy, lse, m-crs,
mod-wl srt, sbrn-dd-rn-dd,
sbsph, trnsl-fros qtz, broken i/p

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

CLAYSTONE: lt gy- m gy, mod frm,
sbbkly-blky, sli slt, 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, sbrn-dd-rn-dd,
sbsph, trnsl-fros qtz, broken i/p



sbsph, trnsi-fros qtz, broken i/p

SANDSTONE: wh-lt gy, lse, m-crs, mod-wl srt, sbrndd-rndd, sbsph, trnsi-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

SANDSTONE: gysh yel-mod olv brn, agg v f sd, wl srt, with wh-lt gy, lse, m-crs-granule, mod srt, sbrndd-rndd, sbsph trnsi-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-sbrndd, 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.

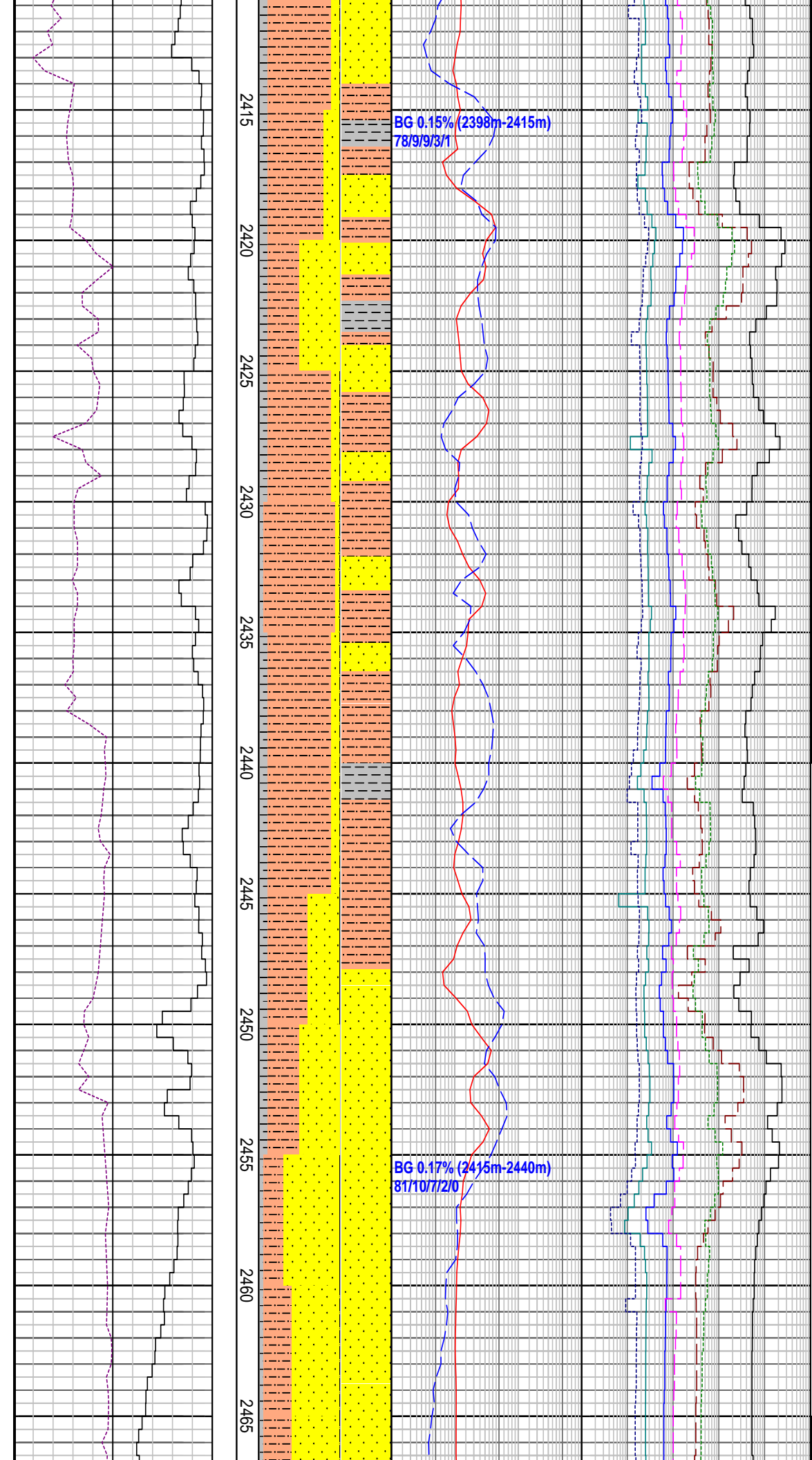
29/09/08

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

MD: 2375.27m Azi: 355.02°
TVD: 2374.7m Incl: 2.22°

BG 0.15% (2340m-2398m)
80/117/2/0

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



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

BG 0.17% (2415m-2440m)
81/10/7/2/0

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

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

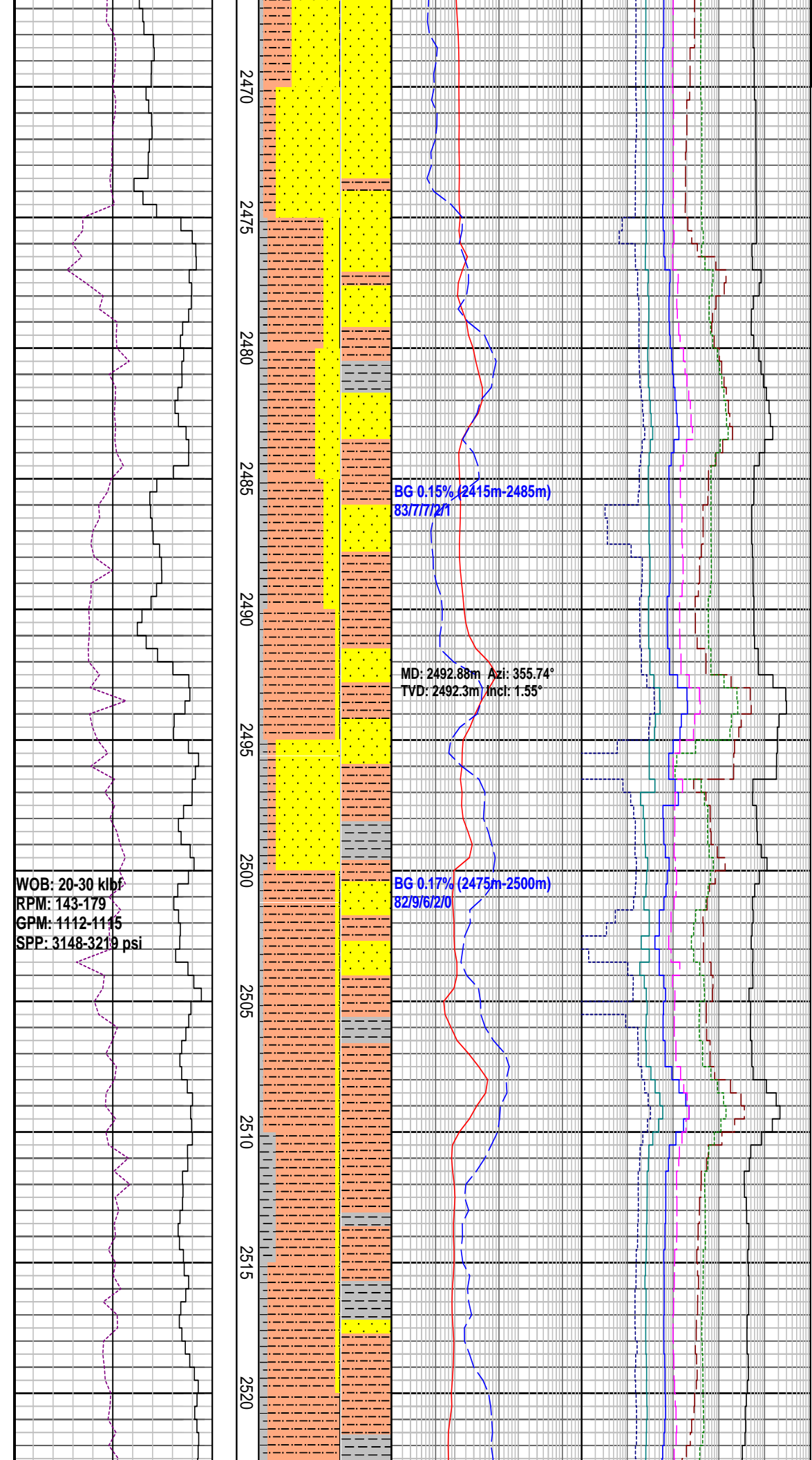
SANDSTONE: lt-m gy lse f lower-crs
lower, dom m sd, pr-mod srt,
sbang-sbrndd clr-frs qtz, tr qtz
granules, tr calc m sst, tr xln pyr

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, blkly, 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, sbbkly-blky, sli slty, tr mic flks, tr carb flks, mod calc

SILTSTONE: mod olv brn-m gy, frm-mod hd, blkly, arg-carb, tr coal frag, n calc, com pl-gy frm sli sandy

MD: 2522.59m Azi: 344.40°
TVD: 2522.0m Incl: 1.29°

2525
2530
2535
2540
2545
2550
2555
2560
2565
2570
2575

BG 0.13% (2500m-2560m)
84776/2/0

siltst, tr mic flks, tr carb lam

SANDSTONE: lt-m brnsh gy, frm-mod hd, v f-f, wl srt, sbrnrd-rnnd, 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-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 (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

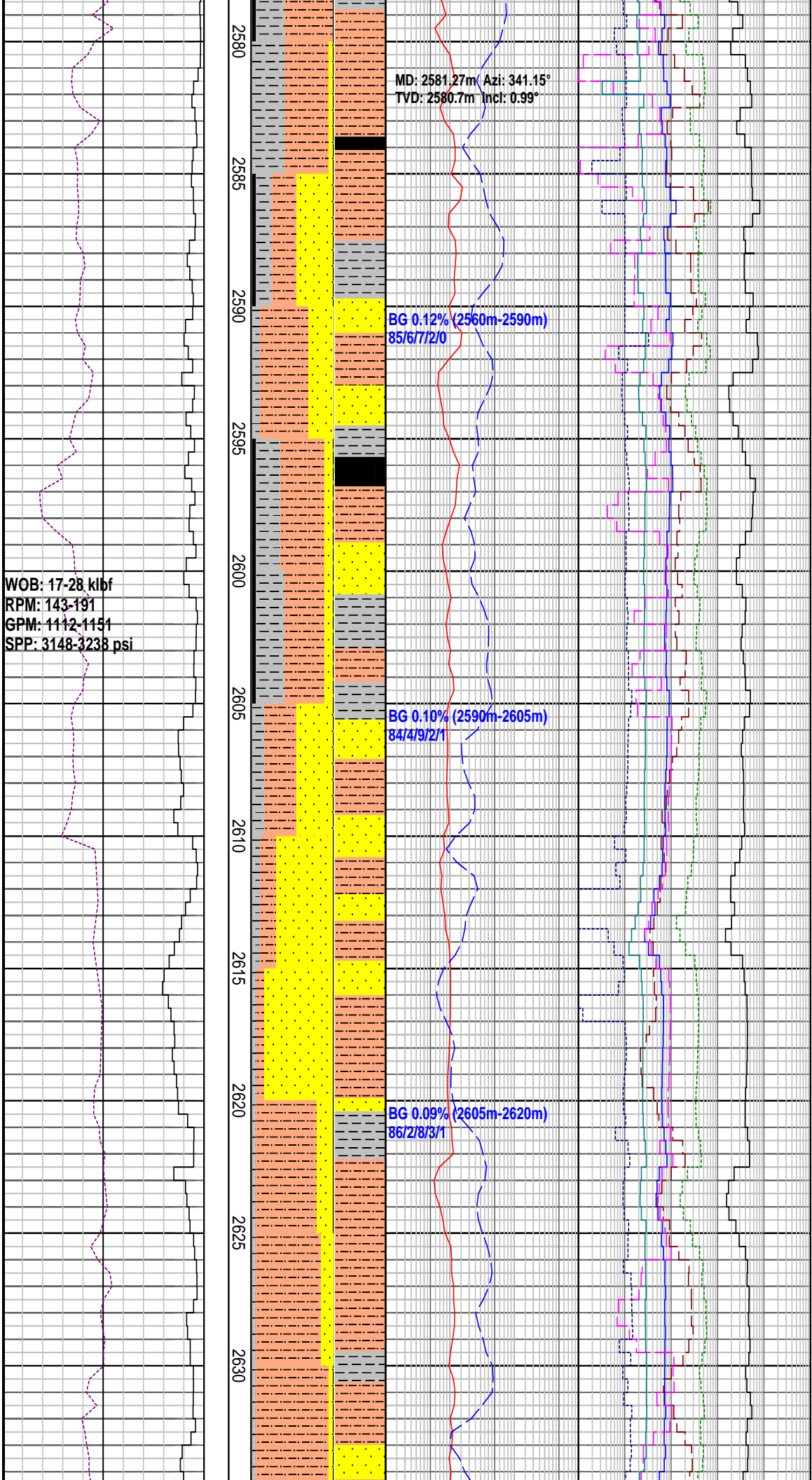
SANDSTONE: lt-m brnsh gy, frm-mod hd, v f lower-upper sst, wl srt sbang qtz, tr mic in slty mtrx, wkly cmt, com carb lam

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, sbblky-blky, sli slty, tr mic flks, tr carb flks, mod calc

SILTSTONE: mod olv brn-m gy, frm-mod hd, blkv, arg-carb, tr coa



frag, n calc, com pl-gy frm sli sandy sltst, tr mic flks, tr carb lam

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

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

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

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

SANDSTONE: wh-v lt gy, pred lse with occ agg, m-crs with mntr 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, mntr 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

30/09/08

2635
2640
2645
2650
2655
2660
2665
2670
2675
2680
2685
2690

MD: 2640.45m Azi: 345.58°
TVD: 2639.8m Incl: 0.83°

MD: 2670.17m Azi: 343.58°
TVD: 2669.6m Incl: 0.61°

BG 0.11% (2620m-2675m)
85/3/9/3/0

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

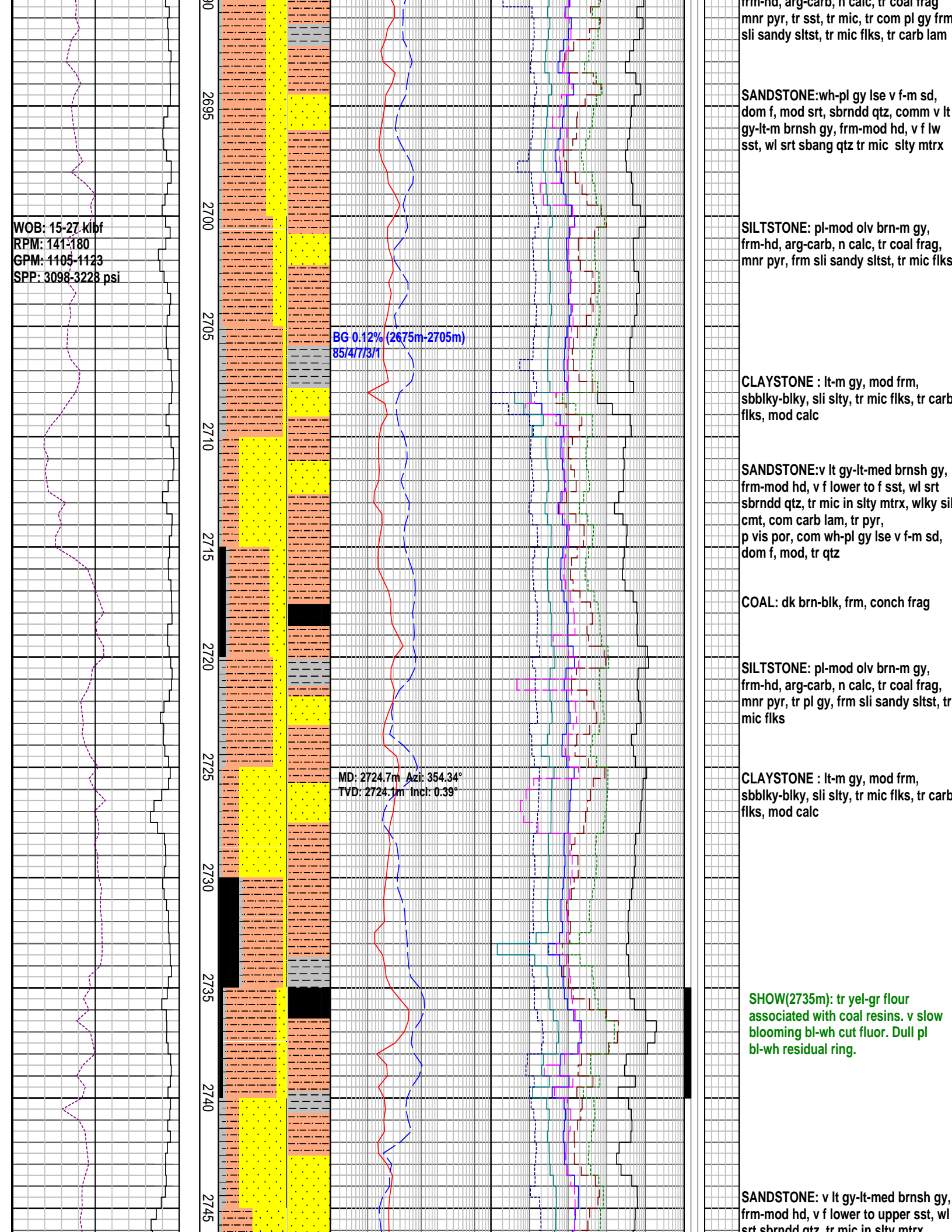
CLAYSTONE : lt-m gy, sft-mod frm, sbbkly-blky, sli slty, tr mic flks, tr carb flks, mod calc

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, 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

CLAYSTONE : lt-m gy, sft-mod frm, sbbkly-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



frim-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, sbrnnd 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,
sbbkly-blky, sli slty, tr mic flks, tr carb
flks, mod calc

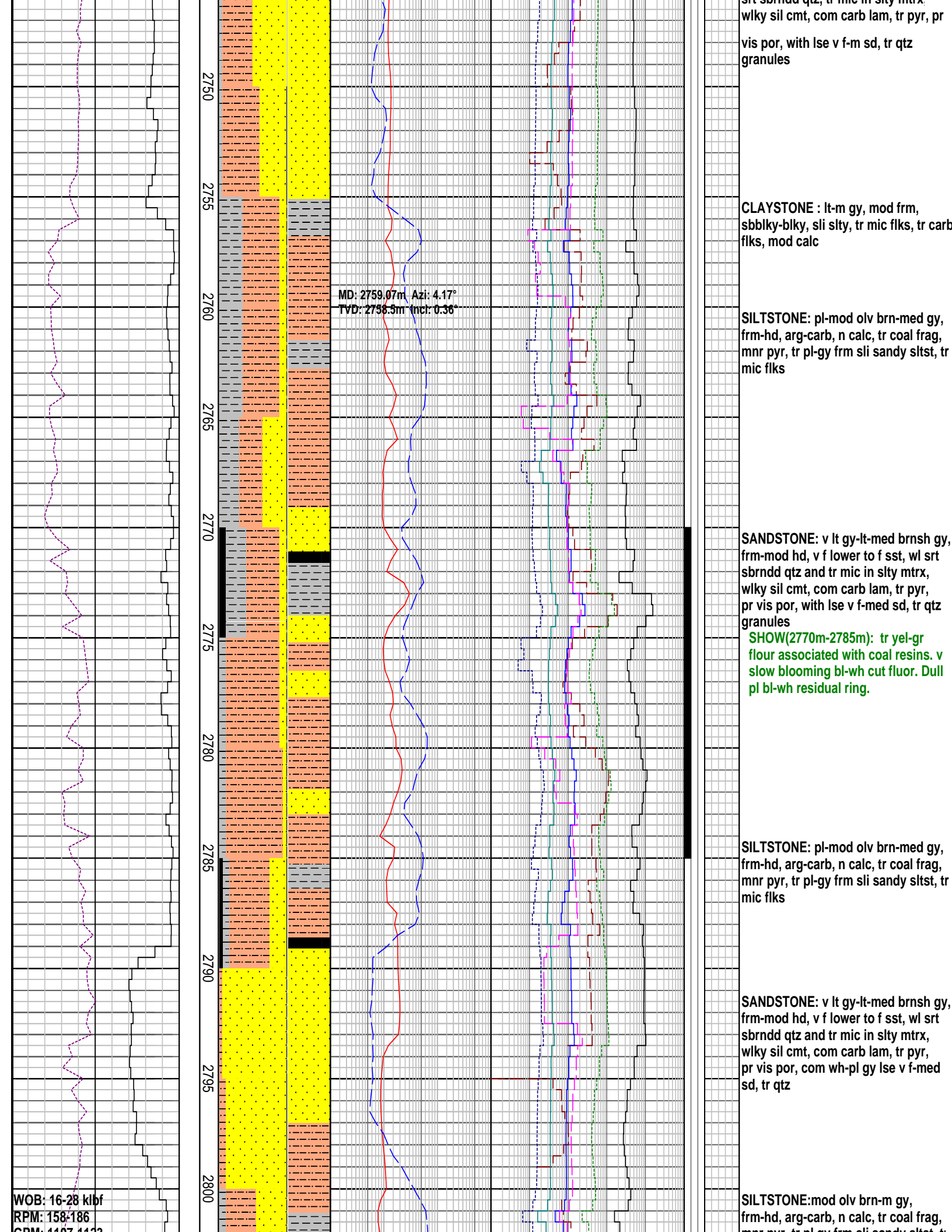
SANDSTONE:v lt gy-lt-med brnsh gy,
frm-mod hd, v f lower to f sst, wl srt
sbrnnd qtz, tr mic in slty mtrx, wlky sil
cmt, com carb lam, tr pyr,
p vis por, com wh-pl gy lse v f-m sd,
dom f, mod, tr qtz

COAL: dk brn-blk, frm, conch frag

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

CLAYSTONE : lt-m gy, mod frm,
sbbkly-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 upper sst, wl
srt sbrnnd qtz tr mic in slty mtrx



2750
2755
2760
2765
2770
2775
2780
2785
2790
2795
2800

MD: 2759.07m Azi: 4.17°
TVD: 2756.5m Incl: 0.36°

Srt sbrndd qtz, tr mic in slty mtrx, wlkly 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, sbbkly-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, 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, wlkly sil cmt, com carb lam, tr pyr, pr vis por, with lse v f-med sd, tr qtz granules

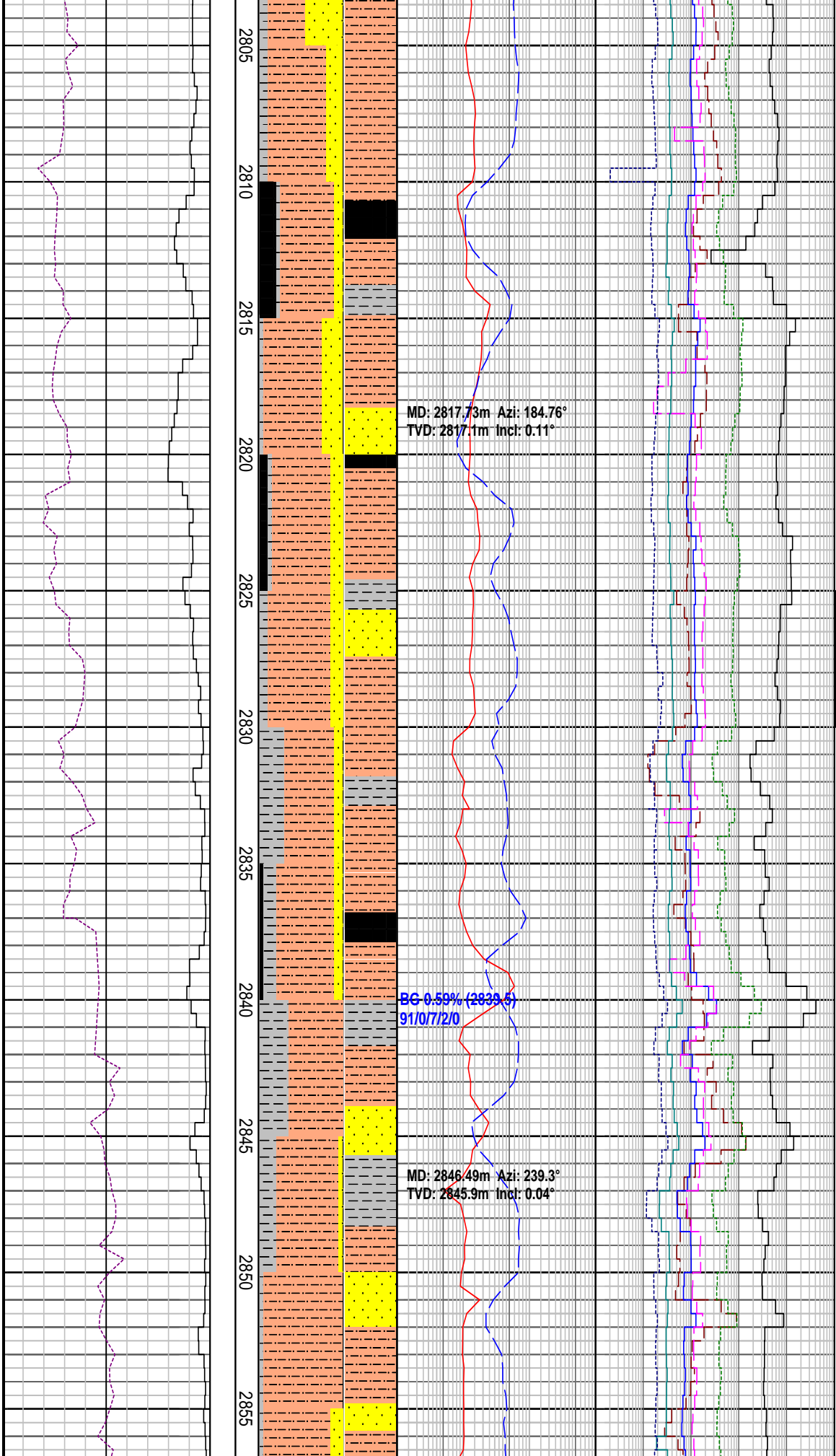
SHOW(2770m-2785m): tr yel-gr flour associated with coal resins. v slow blooming bl-wh cut fluor. Dull pl bl-wh residual ring.

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, wlkly 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

WOB: 16-28 klbf
RPM: 158-186
GPM: 4407-4432



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, 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, sbrndd-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, sbblky-blky, sli slty, tr mic flks, tr carb flks, tr carb flks, mod calc

SANDSTONE: v lt-gy-lt-m brnsh gy, frm-mod hd, v f lower-upper sst, wl srt, sbang-sbrndd qrtz and tr mic in slty mtr, 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: PDC/RSR 816M-A1
 Jets: 8x13
 Depth In: 2859.0m
 Depth Out: xxxx
 Drilled :xxxxxxx
 Grade: XXXXXXXX

03/10/08

WOB: 15-27 klf
 RPM: 95-188
 GPM: 1038-1149
 SPP: 2912-3178 psi

2860
2865
2870
2875
2880
2885
2890
2895
2900
2905
2910

BG 0.13% (2800m-2859m)
 85/2/9/3/1
 MD: 2859.00m Azi: 239.30°
 TVD: 2858.4m Incl: 0.04°

MD: 2878.15m Azi: 323.43°
 TVD: 2877.5m Incl: 0.10°

BG 0.09% (2859m-2885m)
 84/7/7/2/0

BG 0.09% (2885m-2895m)
 81/7/9/2/1

BG 0.09% (2895m-2905m)
 88/5/6/1/0

BG 0.64% (2909m)
 84/8/6/2/0

BG 0.15% (2905m-2910m)

Bit Trip @2859.0m

MW: 9.8 ppg	FV: 54
PV: 15	YP: 29
Gels: 11/19/27	pH: 8.5

SANDSTONE wh-pl gy f-m agg, mod srt, sbang-sbrndd qtz in mnr sil mtrx, mnr sil cmt, frm-hd, tr carb frag, nil vis por, with abun lse f-m mod srt sbrndd qtz gr, tr calc frag, tr lse

SANDSTONE: v lt-gy-lt-m brnsh gy, frm-mod hd, v f lower-upper sst, opq v crs qtz, wl srt, sbang-sbrndd qtz and tr mic in slty mtrx, wlky sil cmt, tr coal

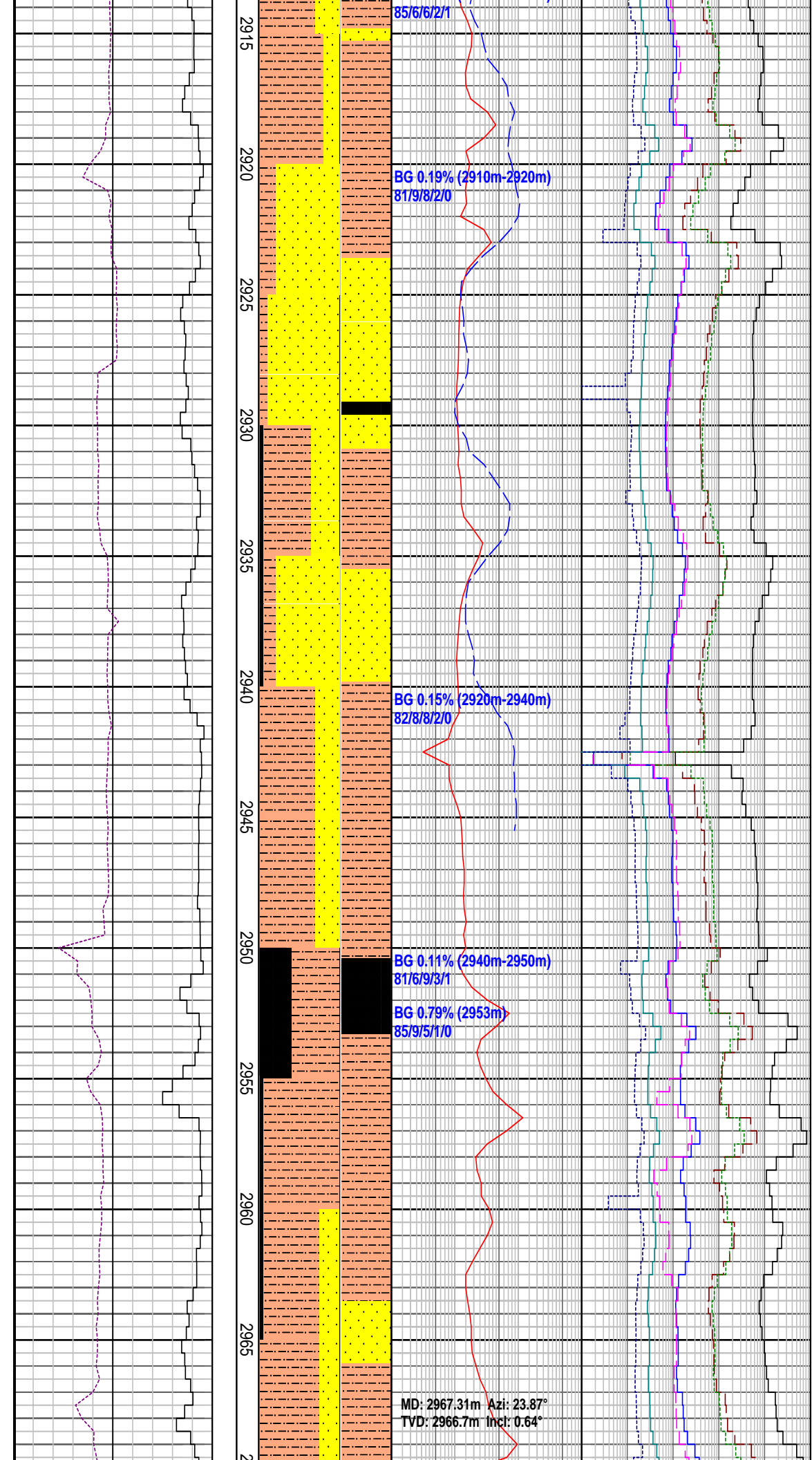
SANDSTONE: lse f-crs dom m pr srt, sbrndd qtz, tr musc flks, tr carb flks, tr com lse pyr, with mnr wh-pl yelsh gy, f-crs agg, mod srt, sbang-sbrndd qtz and tr mic in slty mtrx, m

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

SANDSTONE: lse m-granule dom m upper mod srt sbrndd qtz gr, tr musc flks, tr calc frag, tr pyr cry, with mnr wh-pl gy-yelsh gy f-crs agg, mod srt, sbang-sbrndd qtz in mnr slty mtrx, tr pyr cmt, tr carb frag, nil vis por.

COAL: dk brn-blk, frm, blk, conch frac

SANDSTONE: lse m-granule dom m upper mod srt sbrndd qtz gr, tr musc



flks, tr calc frag, tr pyr cry, with mni wh-pl gy-yelsh gy f-crs agg, mod srt, sbang-sbrndd qtz in mnr slty mtrx, tr pyr cmt, tr carb frag, nil vis por.
SHOWS (2910m-2915m): tr dull grsh-yel pinpoint fluor in silty vf sst, slow blooming mod brt bl-wh cut fluor, mod thick brt-wh fluor residual ring, nil vis residue.

SANDSTONE: lse f-m dom f upper-m lower wl srt sbrndd qtz gr, tr fspr, tr musc flks, tr py cry, with com wh-pl gy m sst agg, wl srt, sbang-sbrndd qtz in om slty mtrx, mnr sil cmt, fr

SILTSTONE: lt brn-m brnsh gy, frm-hd mod hd i/p, arg-carb, n calc, mnr pyr, tr pl gy frm sli sandy sltst, tr mic flks

SANDSTONE: lse f-m dom f upper-m lower wl srt sbrndd qtz gr, tr fspr, tr musc flks, tr py cry, with com wh-pl gy m sst agg, wl srt, sbang-sbrndd qtz in com slty mtrx, mnr sil cmt, f

tr carb frag, pr vis por, mnr sft wh rock flour

COAL : blk, frm-hd, brt bnnd, conc-planar frac

SILTSTONE: lt-mod olv brn-m gy, frm-hd, arg-carb, n calc, com pl gy frm stly sandy sst, tr mic flks

MD: 2967.31m Azi: 23.87°
 TVD: 2966.7m Incl: 0.64°

