

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-4-I-NO-PR

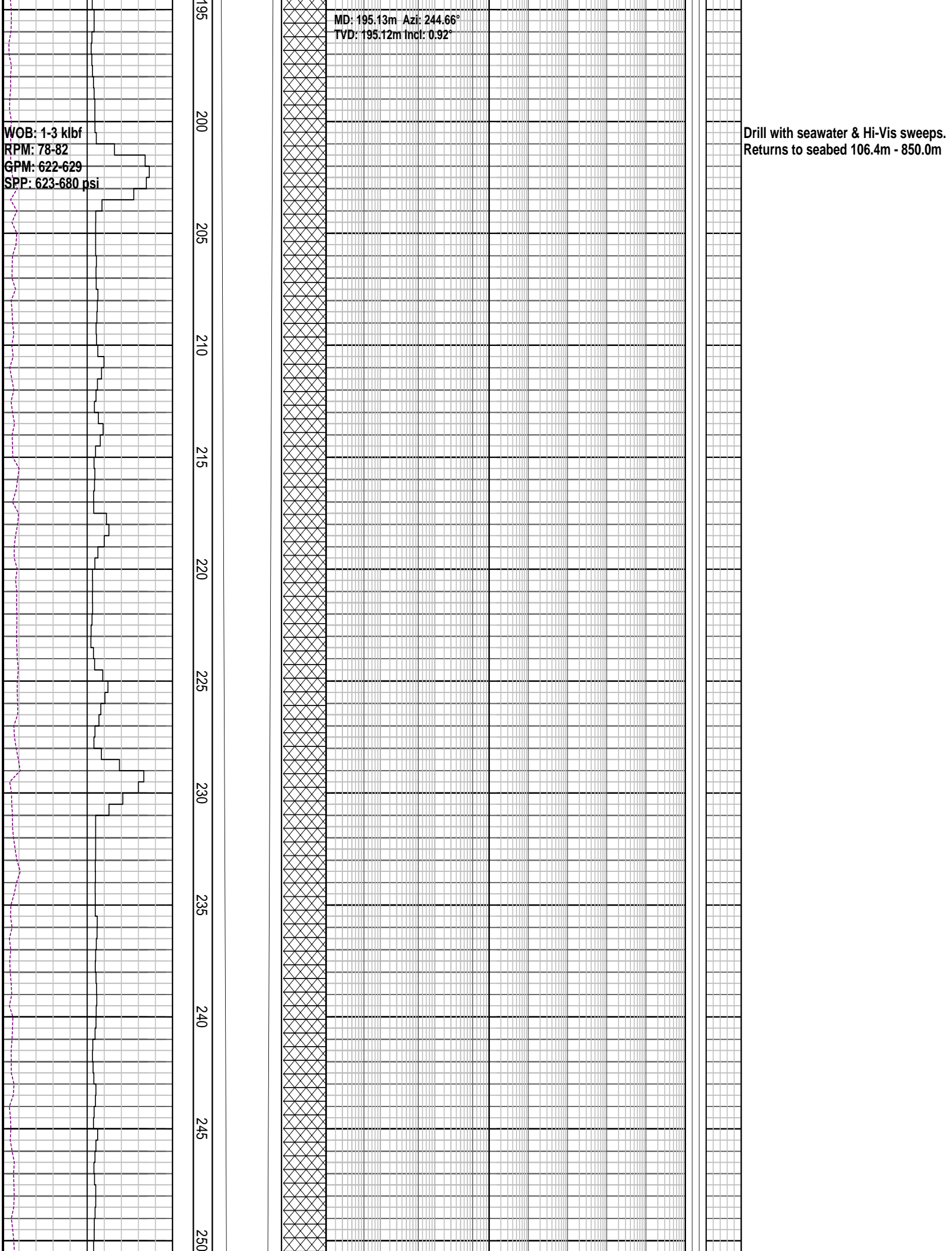
140
145
150
155
160
165
170
175
180
185
190

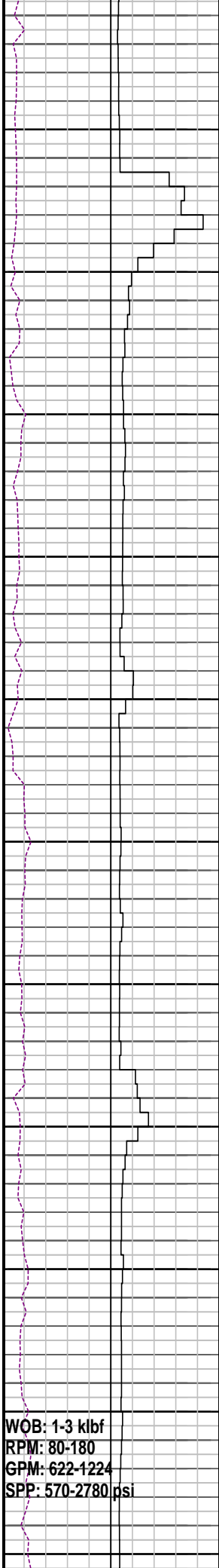
36" Hole Section TD 154.0m

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

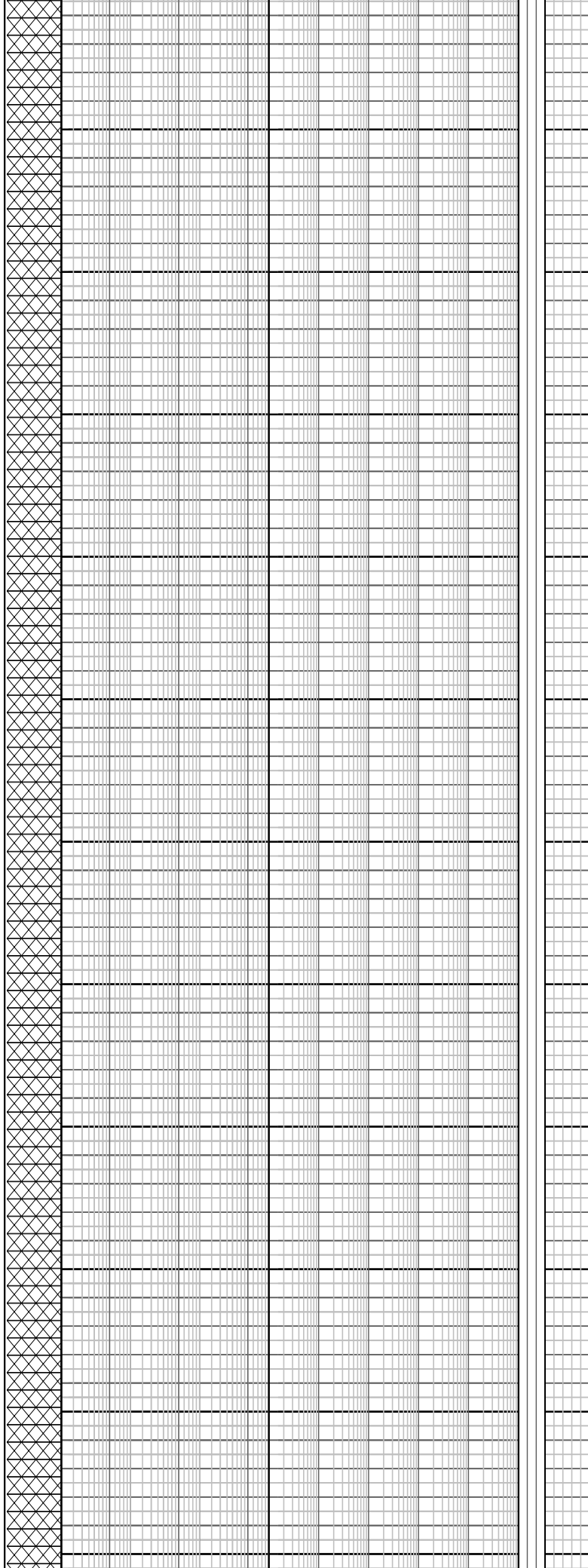
WOB: 1-3 klbf
RPM: 78-82
GPM: 622-629
SPP: 623-680 psi

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



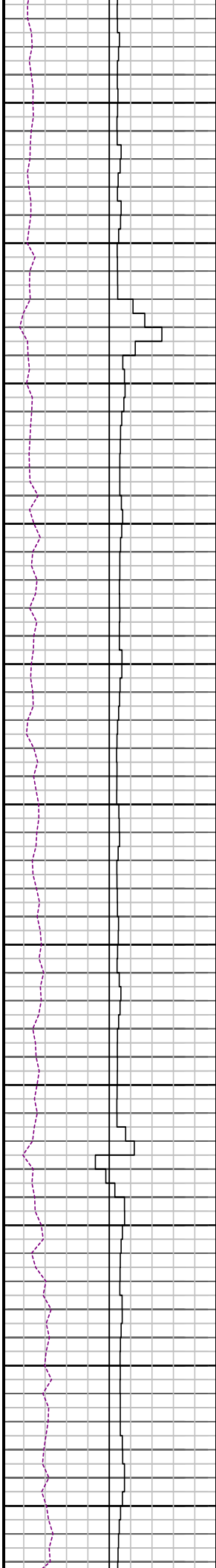


255
260
265
270
275
280
285
290
295
300
305



WOB: 1-3 klpf
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

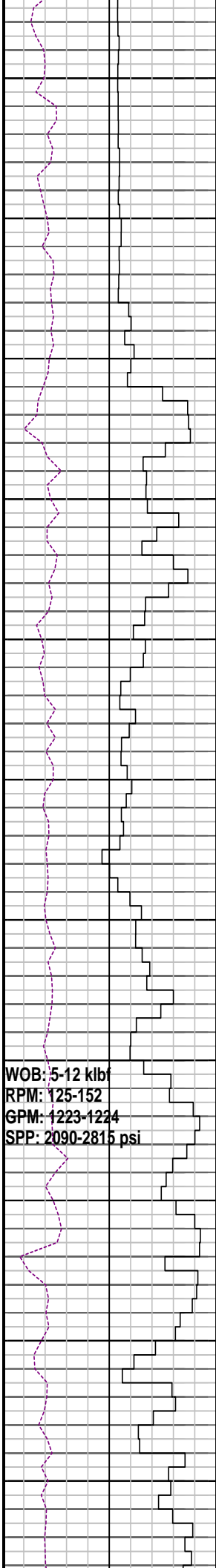
345

350

355

360

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



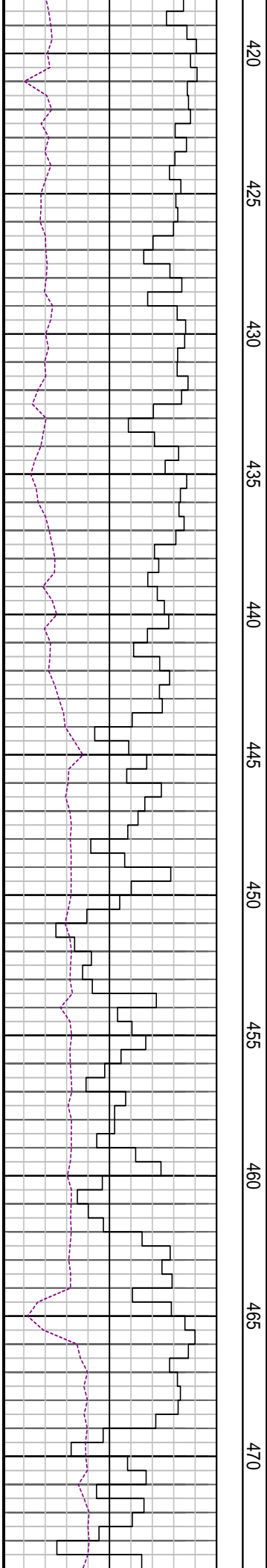
365
370
375
380
385
390
395
400
405
410
415

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

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

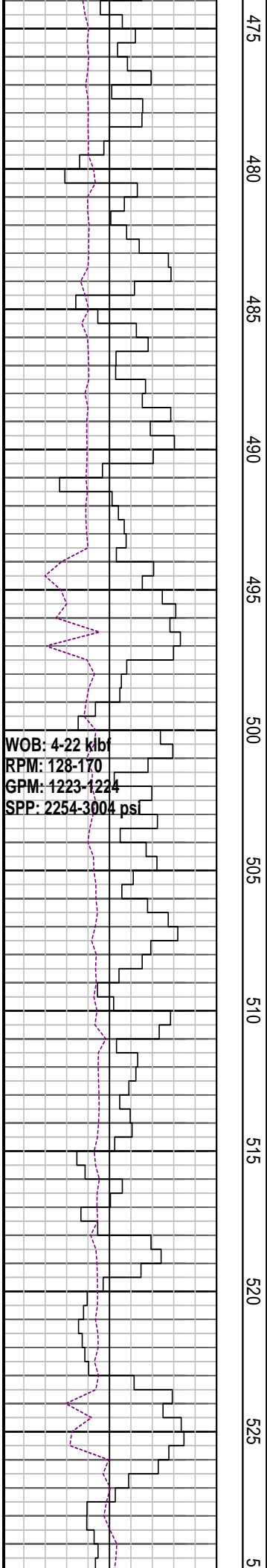
WOB: 5-12 klbf
RPM: 125-152
GPM: 1223-1224
SPP: 2090-2815 psi

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



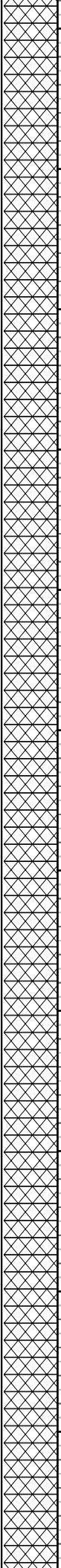
420
425
430
435
440
445
450
455
460
465
470

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



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

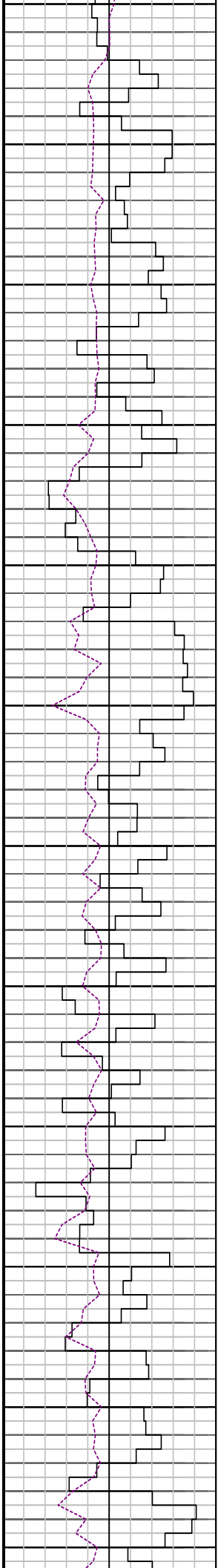
475
480
485
490
495
500
505
510
515
520
525
5



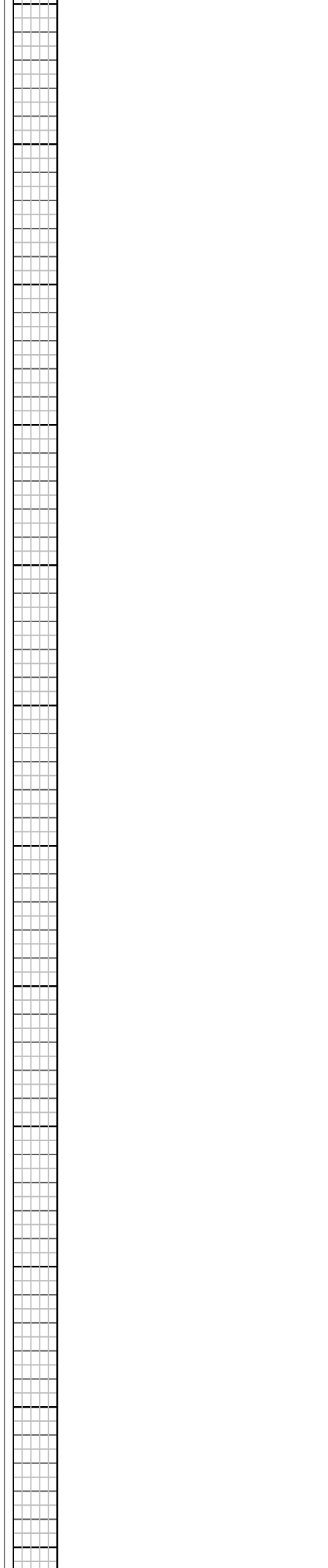
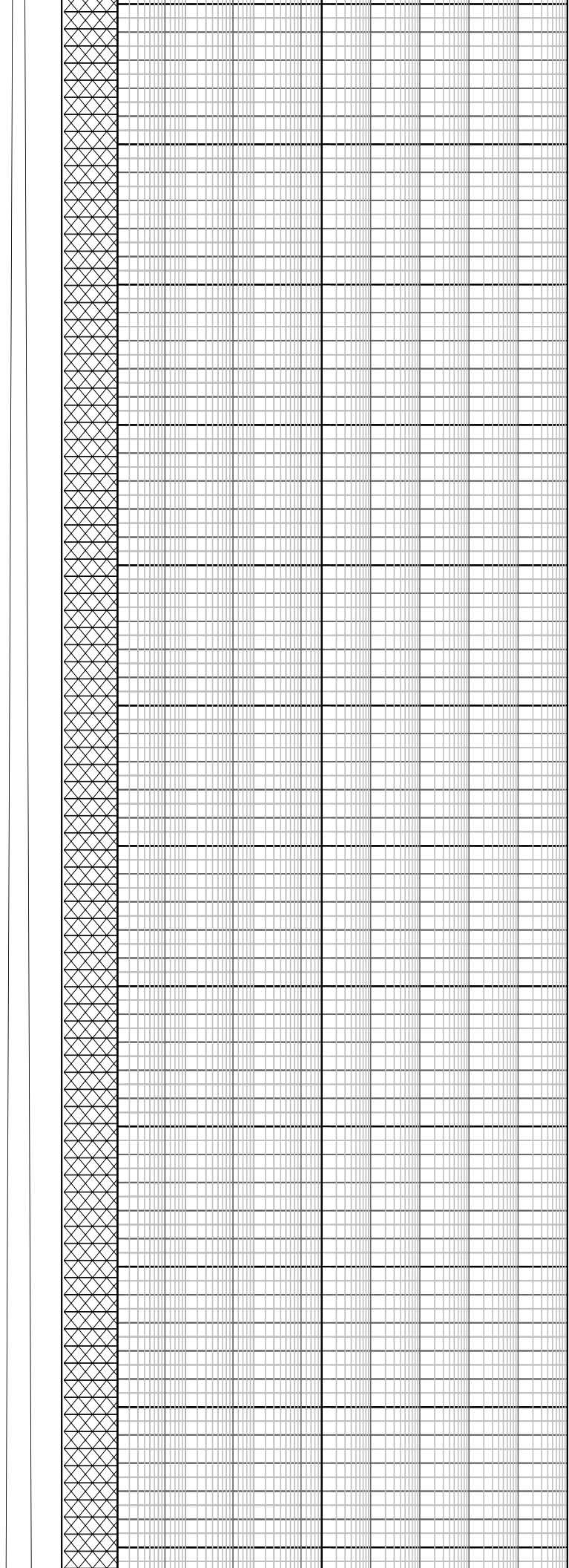
MD: 488.50m Azi: 298.03°
TVD: 488.48m Incl: 0.55°

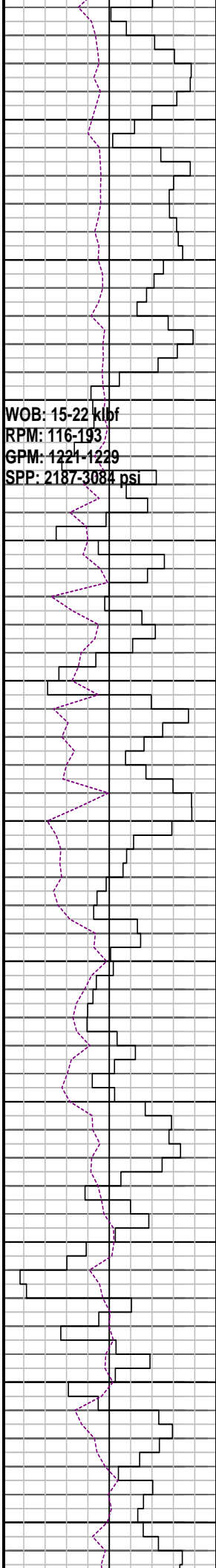
MD: 518.24m Azi: 302.41°
TVD: 518.22m Incl: 0.60°

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



30 535 540 545 550 555 560 565 570 575 580 585





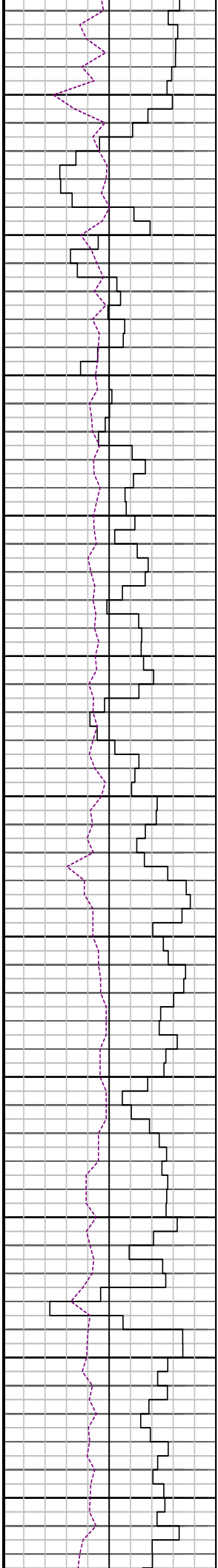
590
595
600
605
610
615
620
625
630
635
640

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

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



645

650

655

660

665

670

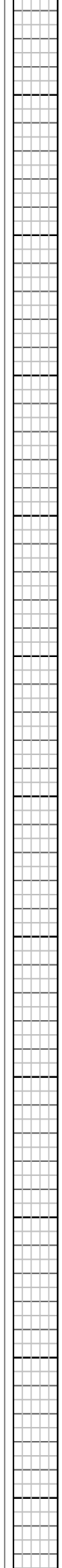
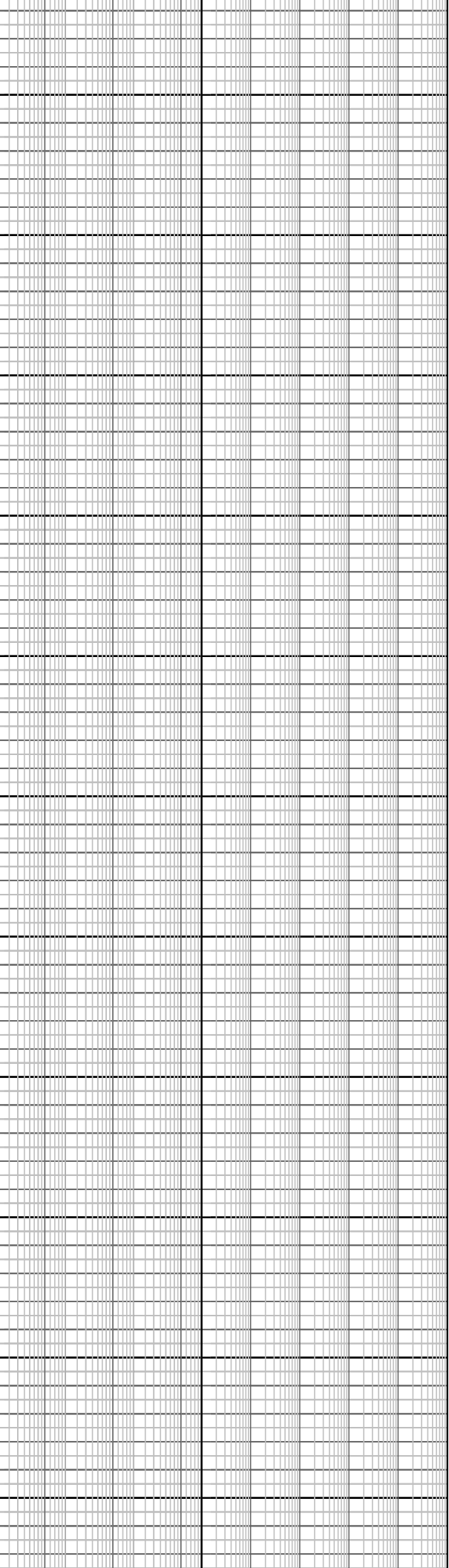
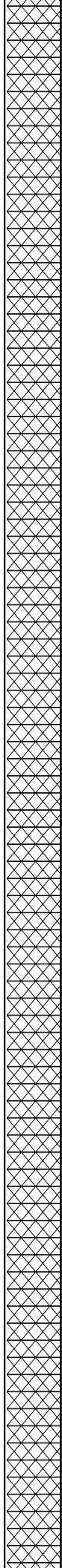
675

680

685

690

695



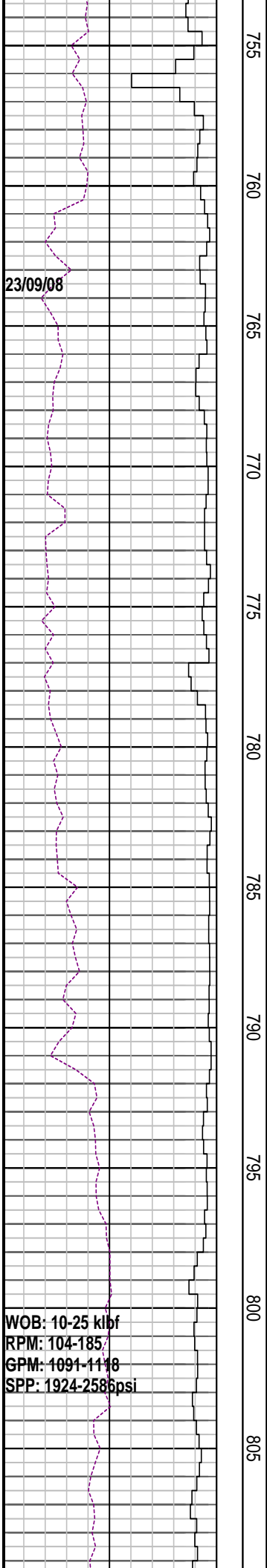
WOB: 15-25 klf
RPM: 113-185
GPM: 1112-1228
SPP: 2226-2894 psi

700
705
710
715
720
725
730
735
740
745
750

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

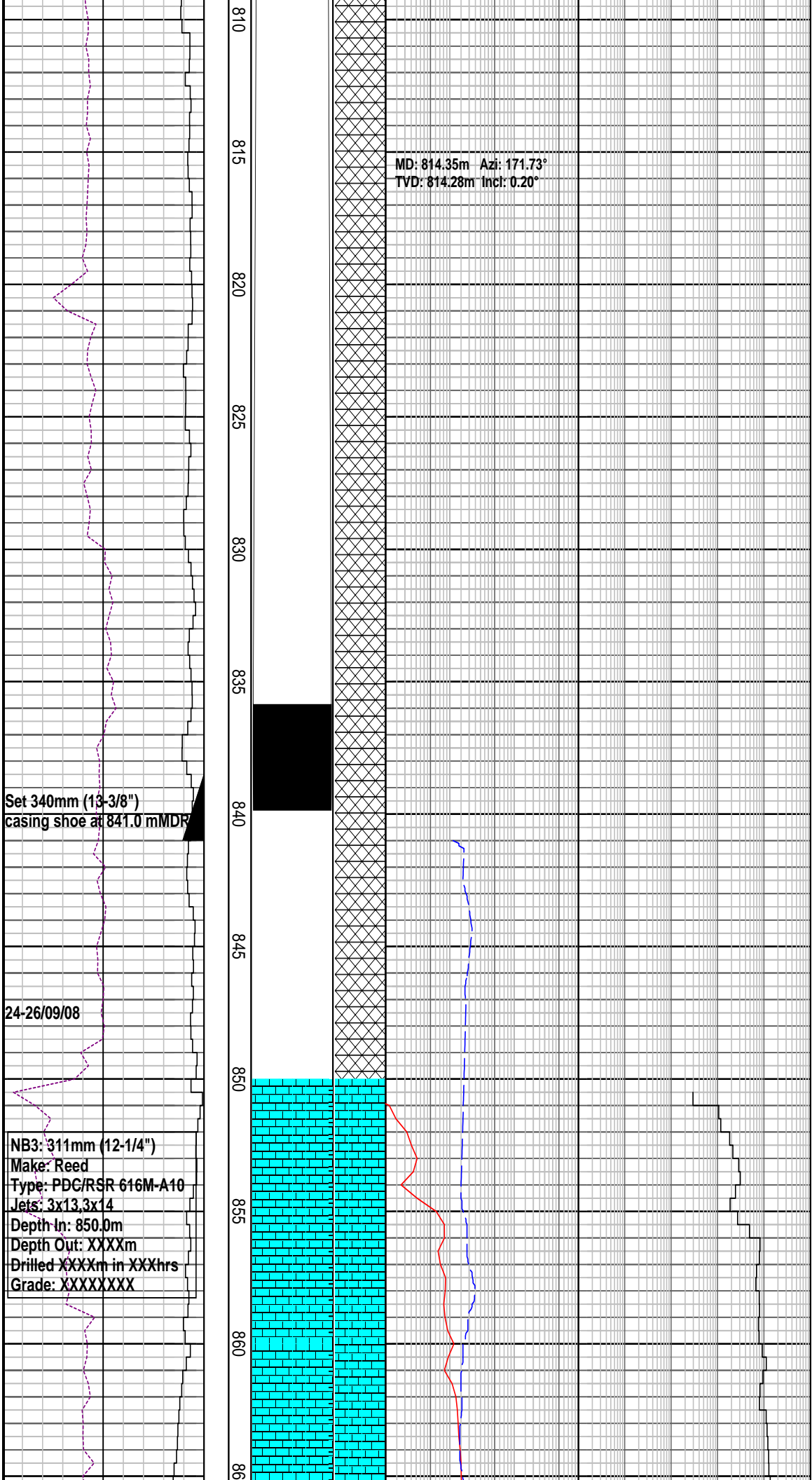


755
760
765
770
775
780
785
790
795
800
805

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

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

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



810
815
820
825
830
835
840
845
850
855
860
86

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

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

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: XXXXm
Drilled XXXXm in XXXhrs
Grade: XXXXXXXX

16" Hole Section TD 850.0m

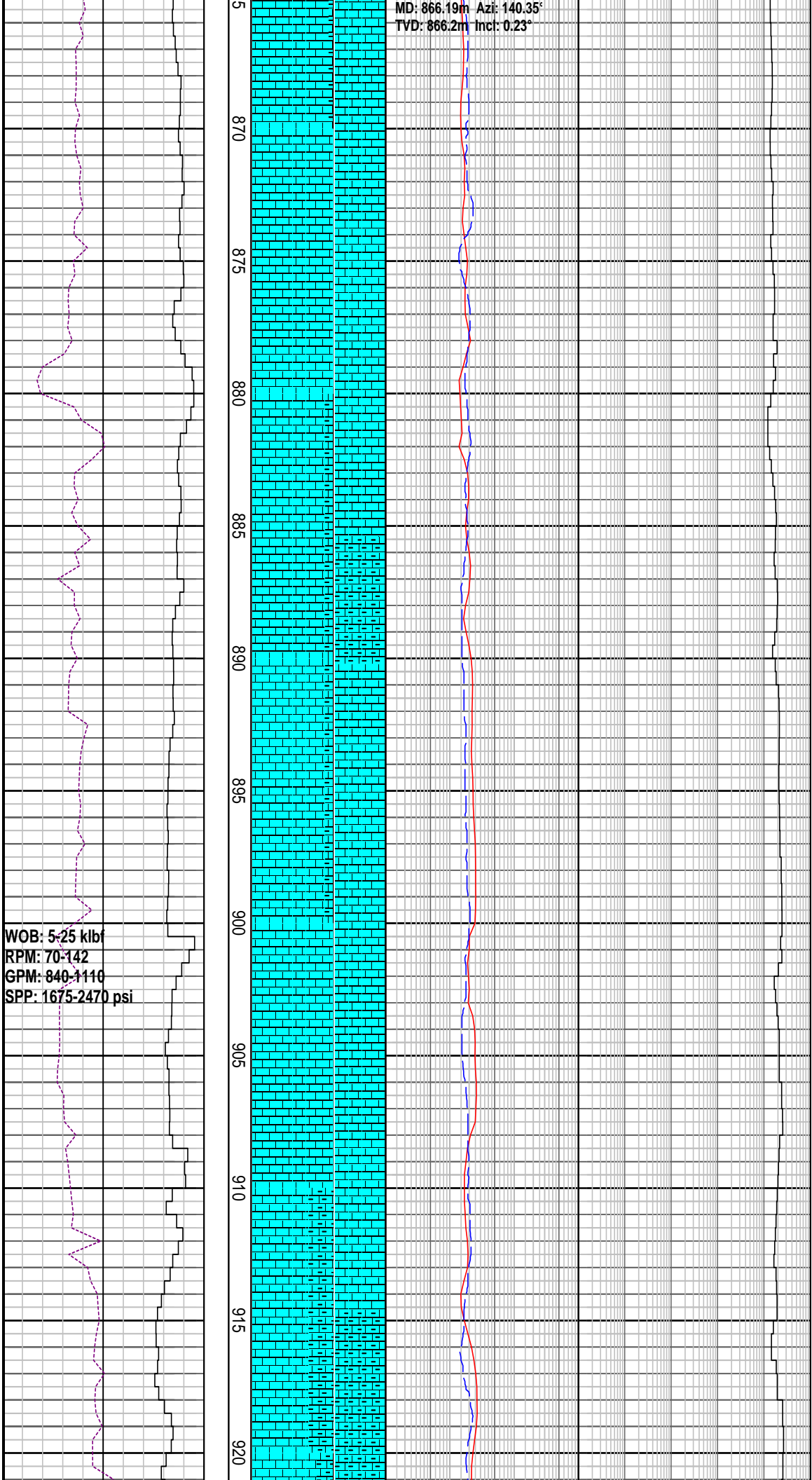
Drill with KCI/PHPA mud
850.0m to Well TD

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

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

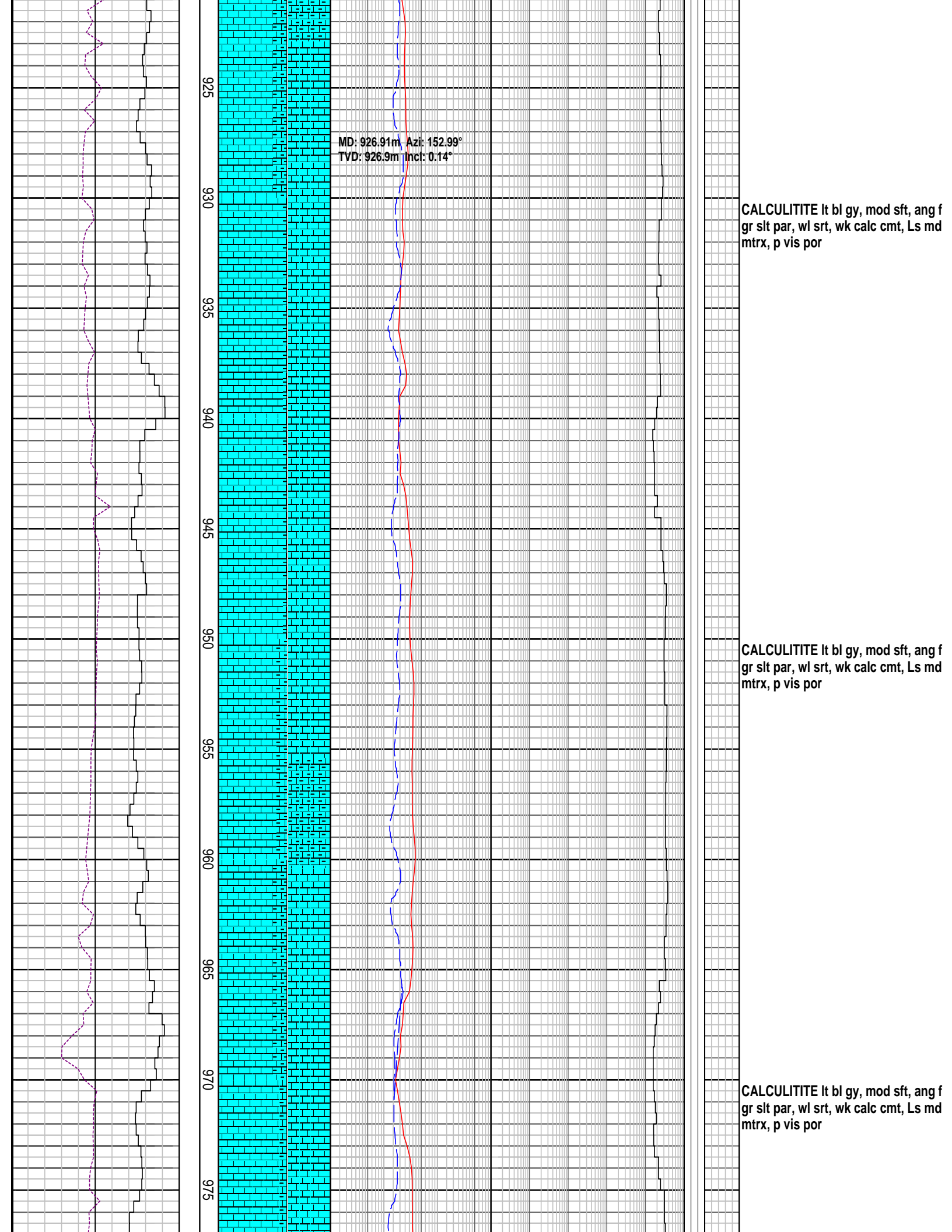


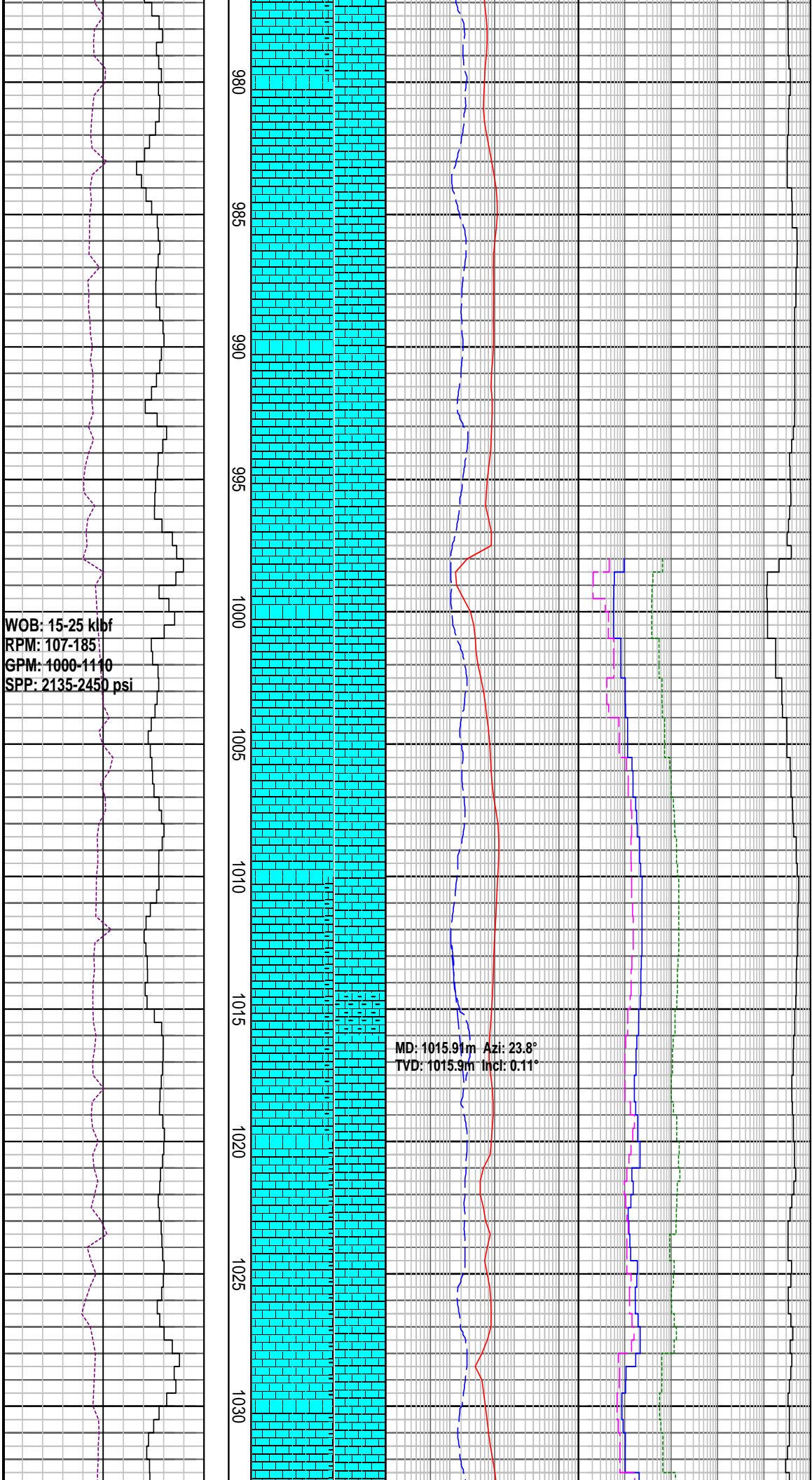
WOB: 5-25 kbf
RPM: 70-142
GPM: 840-1110
SPP: 1675-2470 psi

CALCARENITE : yel gy-lt olv gy,
sbrndd blkky, 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

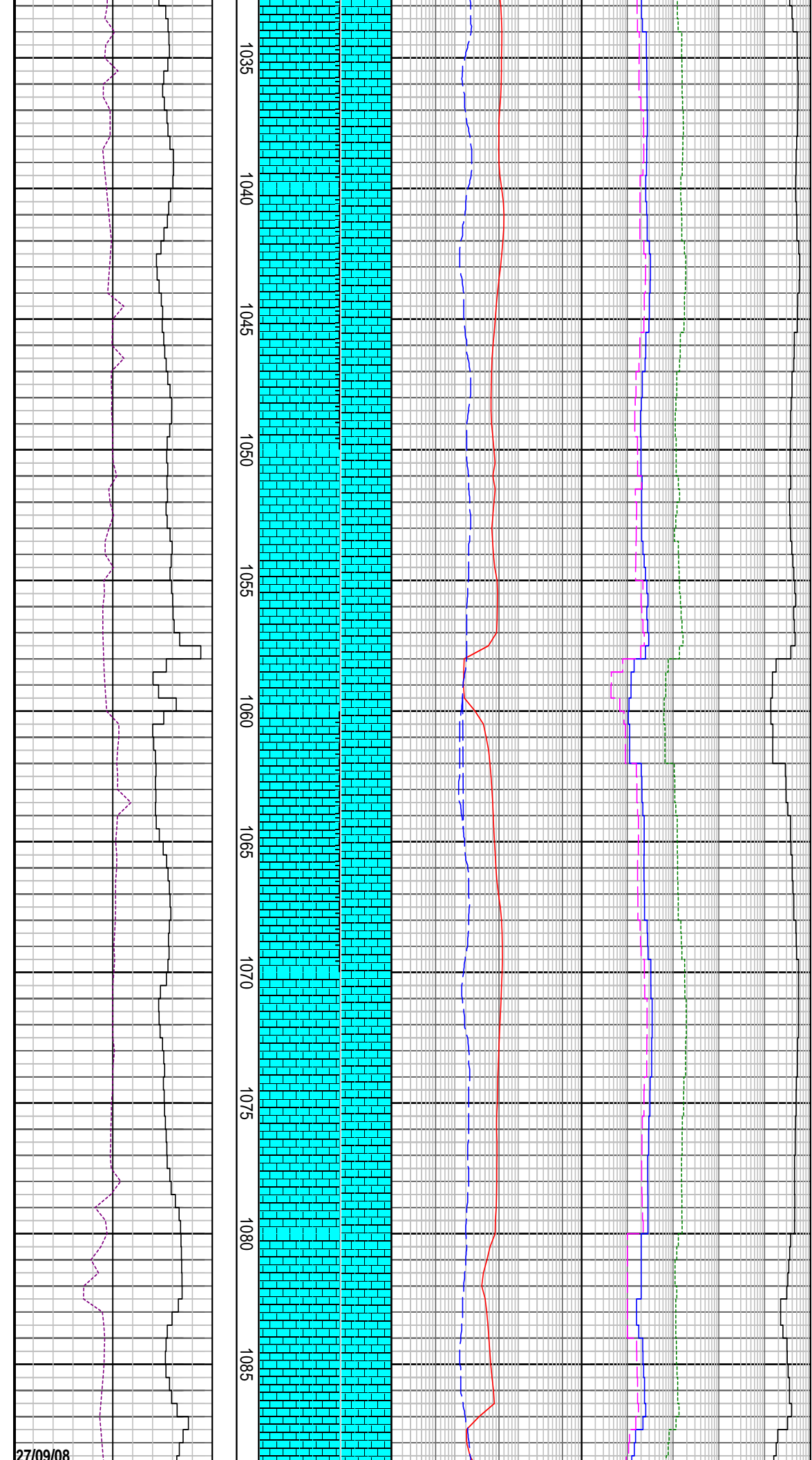
MD: 1015.91m Azi: 23.8°
 TVD: 1015.9m Incl: 0.11°

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 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

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

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

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

1090
1095
1100
1105
1110
1115
1120
1125
1130
1135
1140

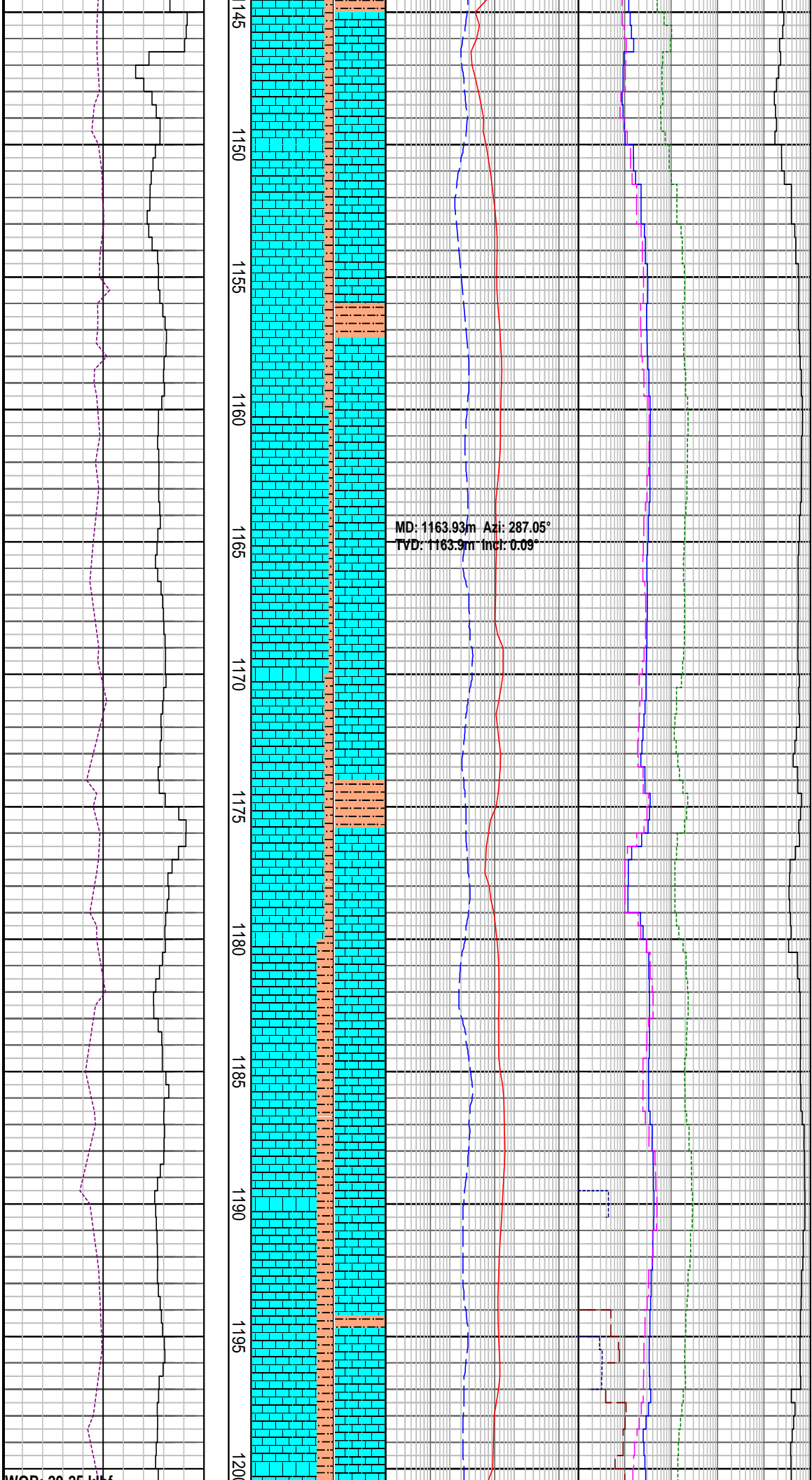
MD: 1104.27m Azi: 50.17°
TVD: 1104.2m Incl: 0.09°

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

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

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



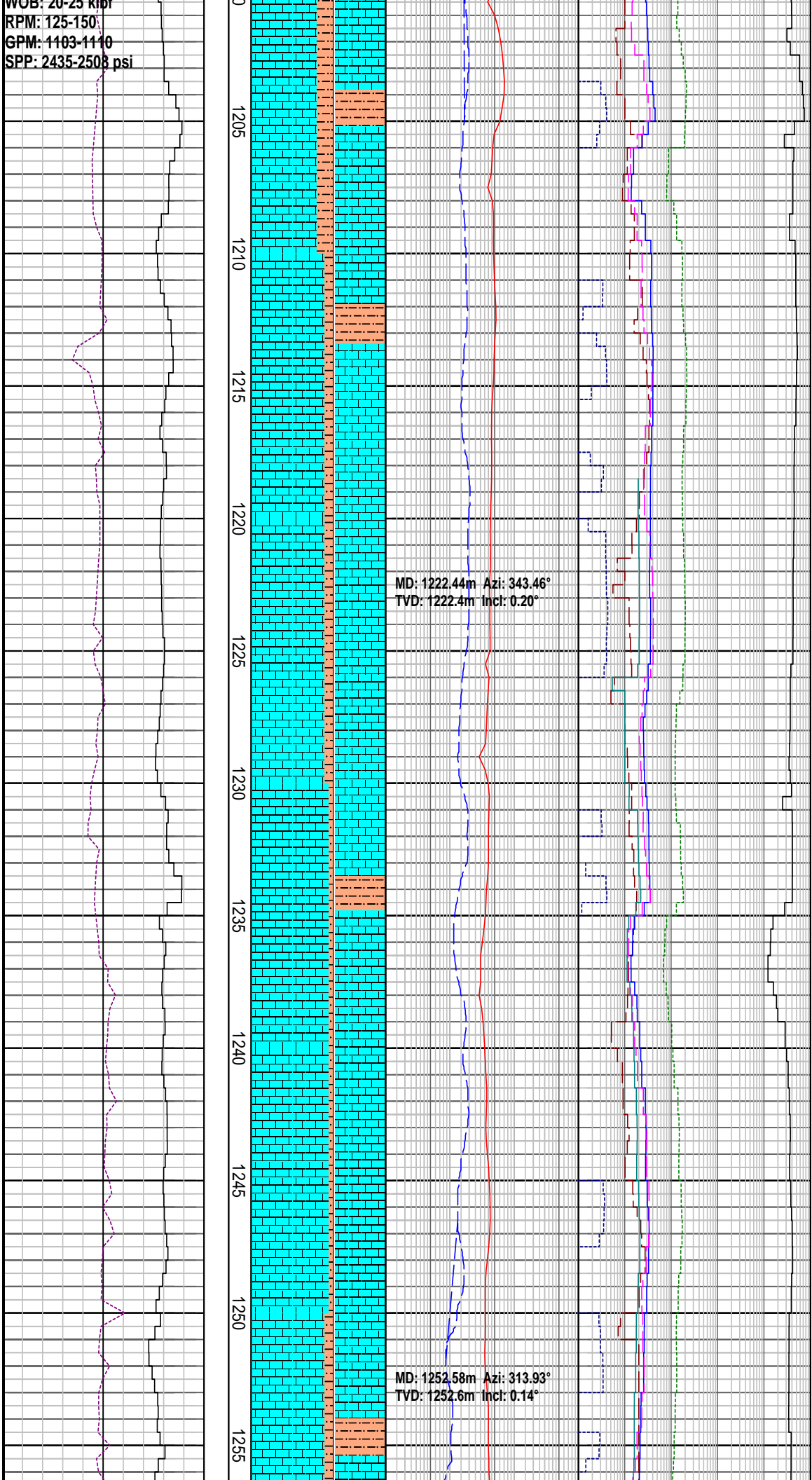
SILTSTONE: lt brn-dk brn, frm-mod hd, blkly, mod calc

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

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 calc slt, com lam, pr inf por

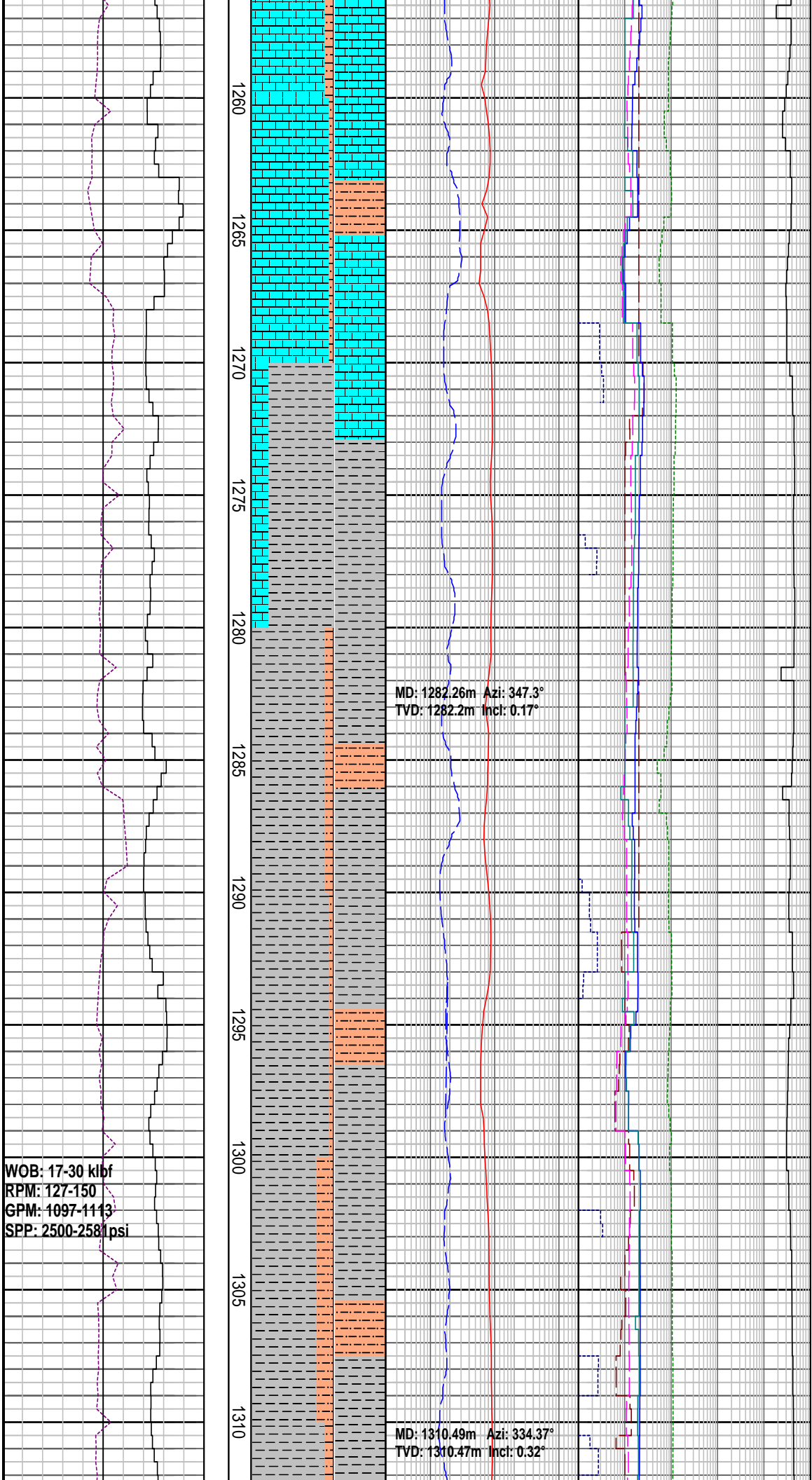
WOB: 20-25 kipf
RPM: 125-150
GPM: 1103-1110
SPP: 2435-2508 psi



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

CALCULITITE lt bl gy-olv gy, sft-mod sft, mod hd, frm i/p, sbbkly-blky, silty md, wll srt, com calc 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

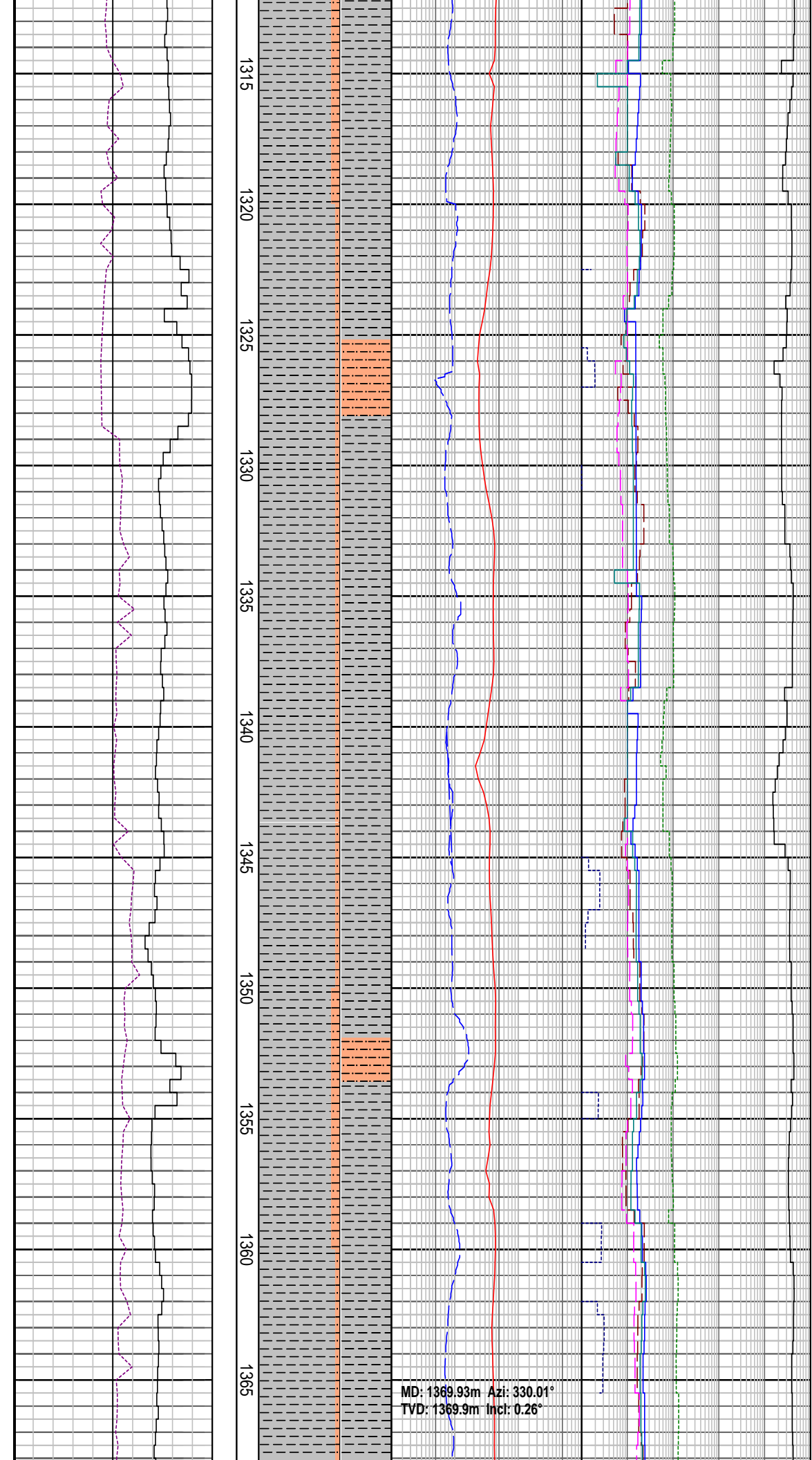


SILTSTONE: m gy-grnsh gy, frm-hd, blky, arg mod calc, tr dk gr-blk vf-med sbrndd glau

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

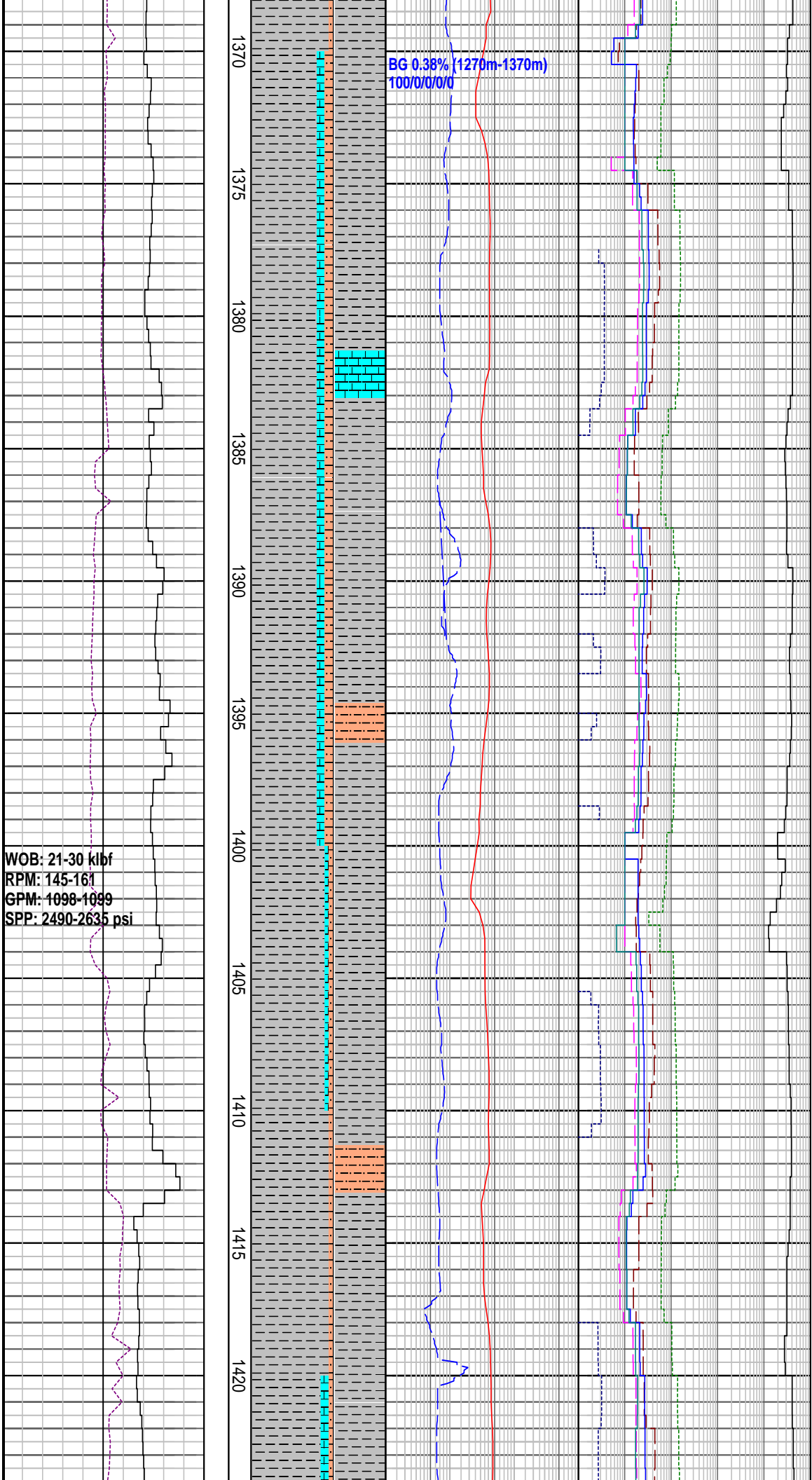


gy, mod hi calc, tr mic filks, grdg to
ClcIt

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

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

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

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

1425
1430
1435
1440
1445
1450
1455
1460
1465
1470
1475
1480

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

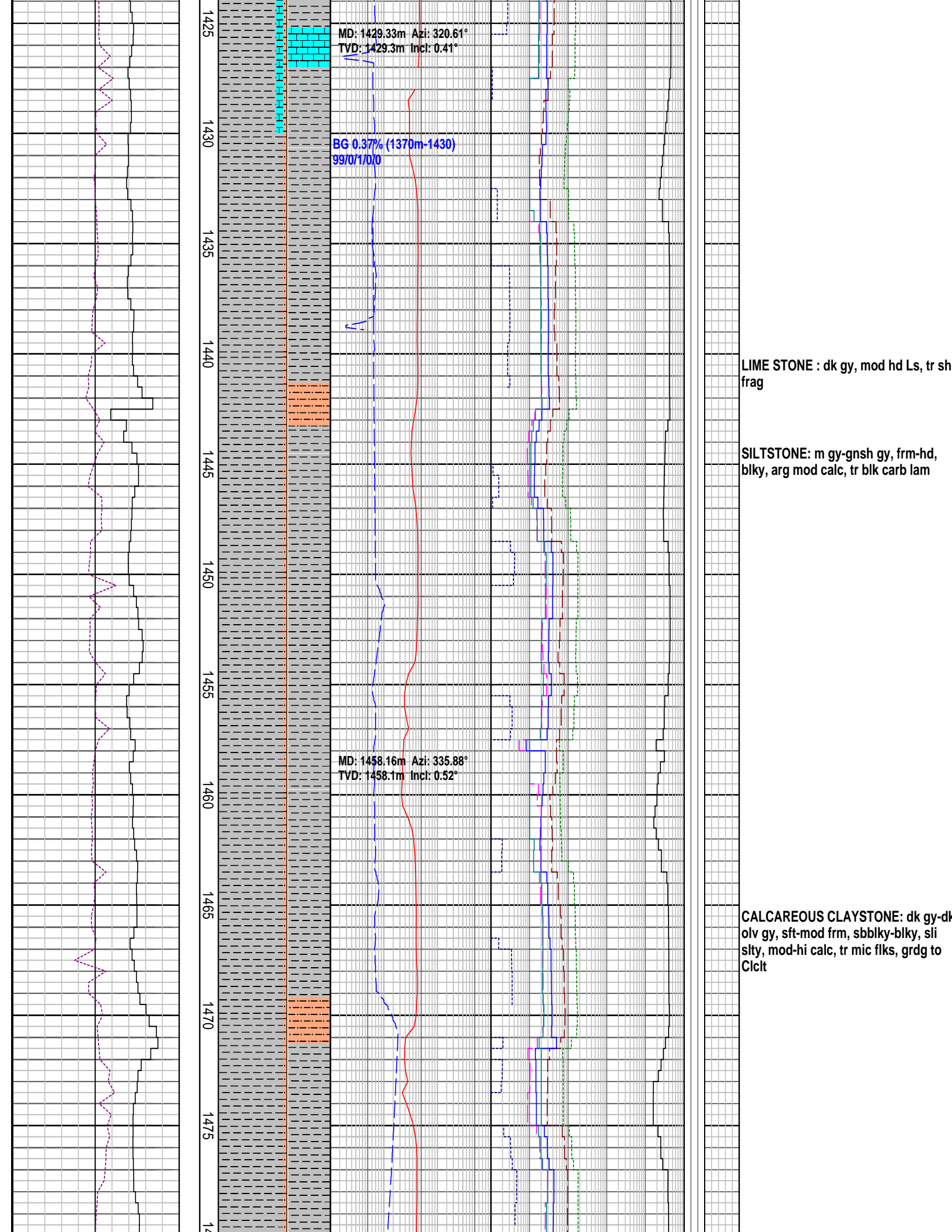
BG 0.37% (1370m-1430)
99/0/1/0/0

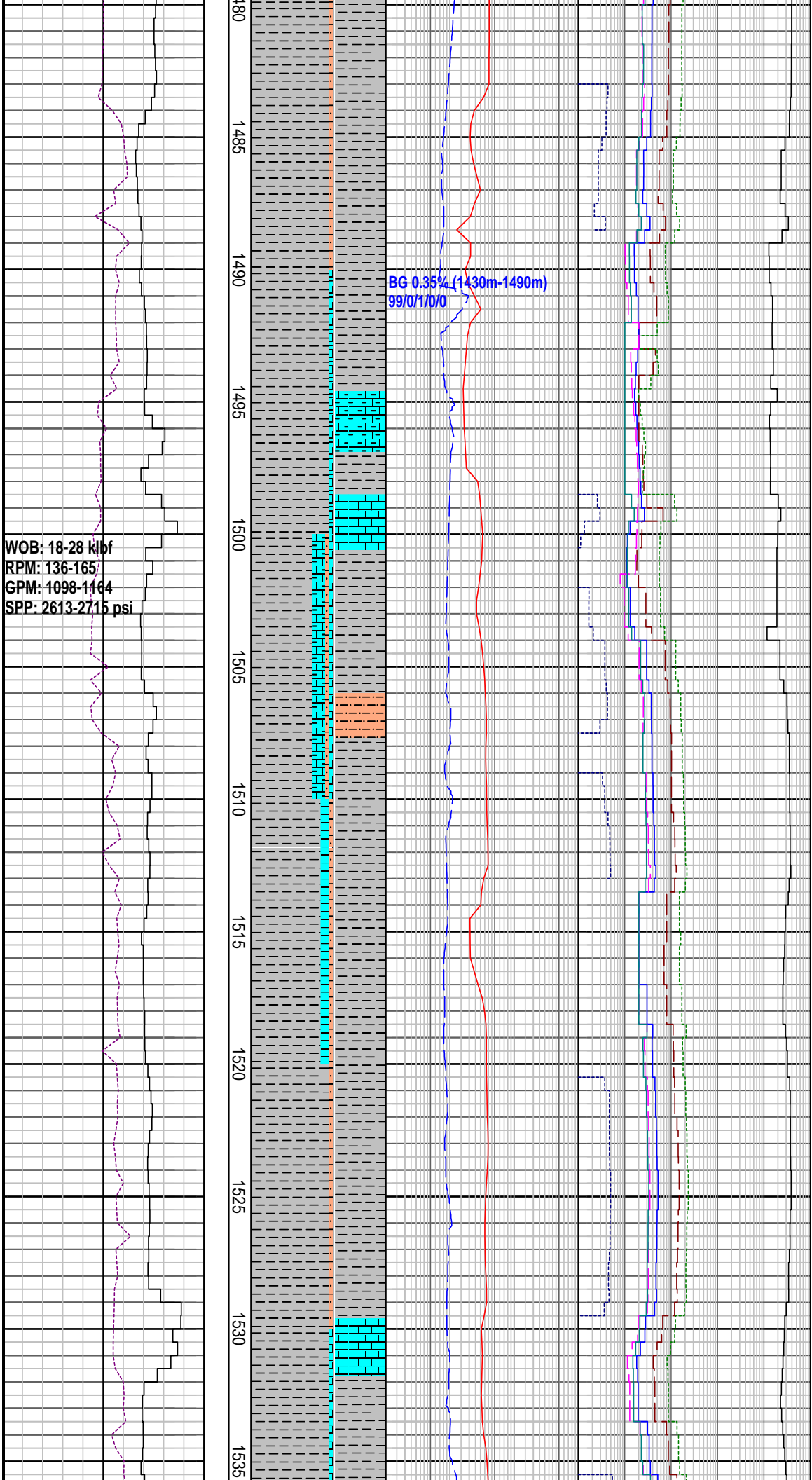
MD: 1458.16m Azi: 335.88°
TVD: 1458.1m Incl: 0.52°

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

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 filks, grdg to
Clct

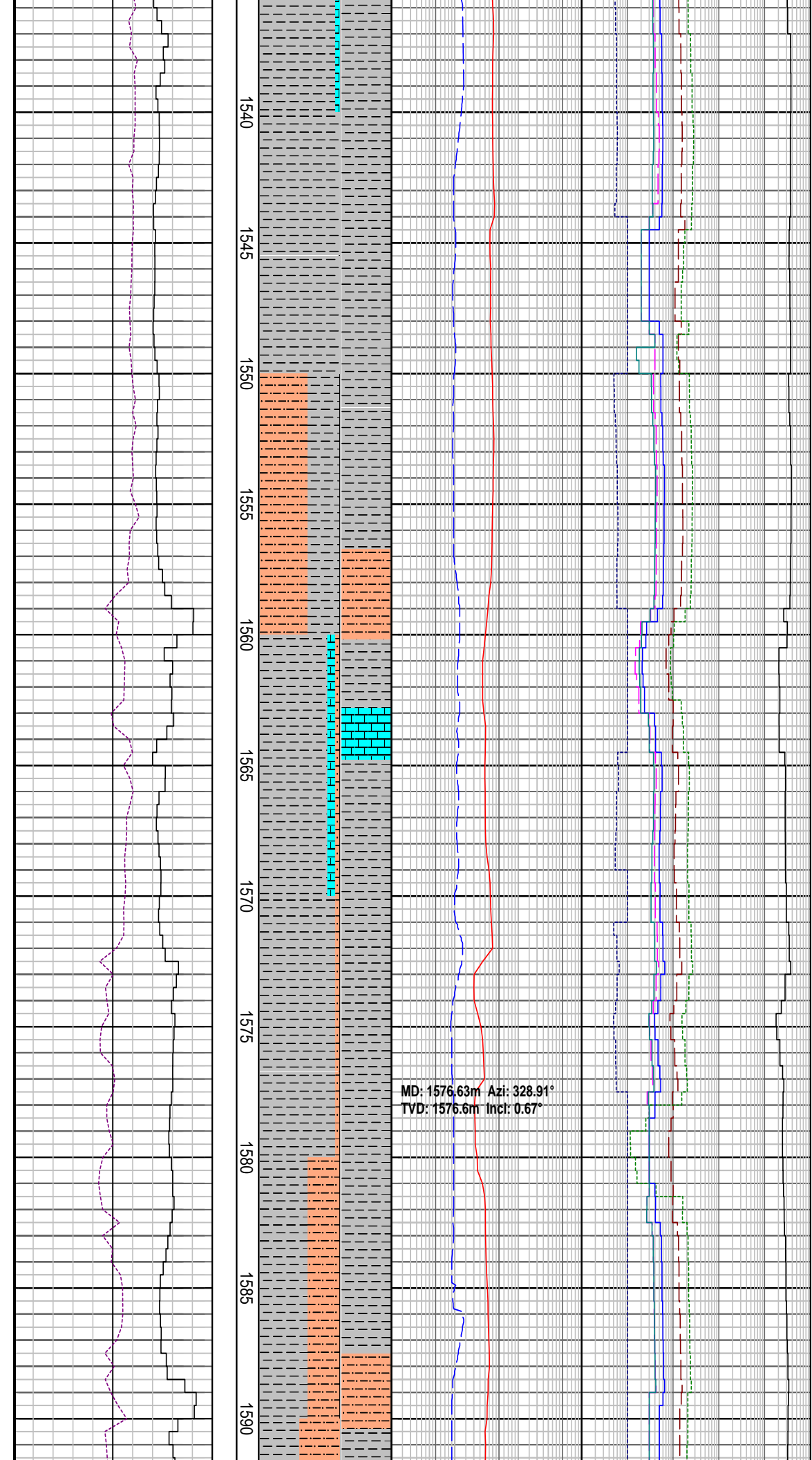




CALCARENITE : yel gy-lt olv gy,
sbrndd-blky, mod hd, f gr, trnsl sb
ang

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



1540
1545
1550
1555
1560
1565
1570
1575
1580
1585
1590

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

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

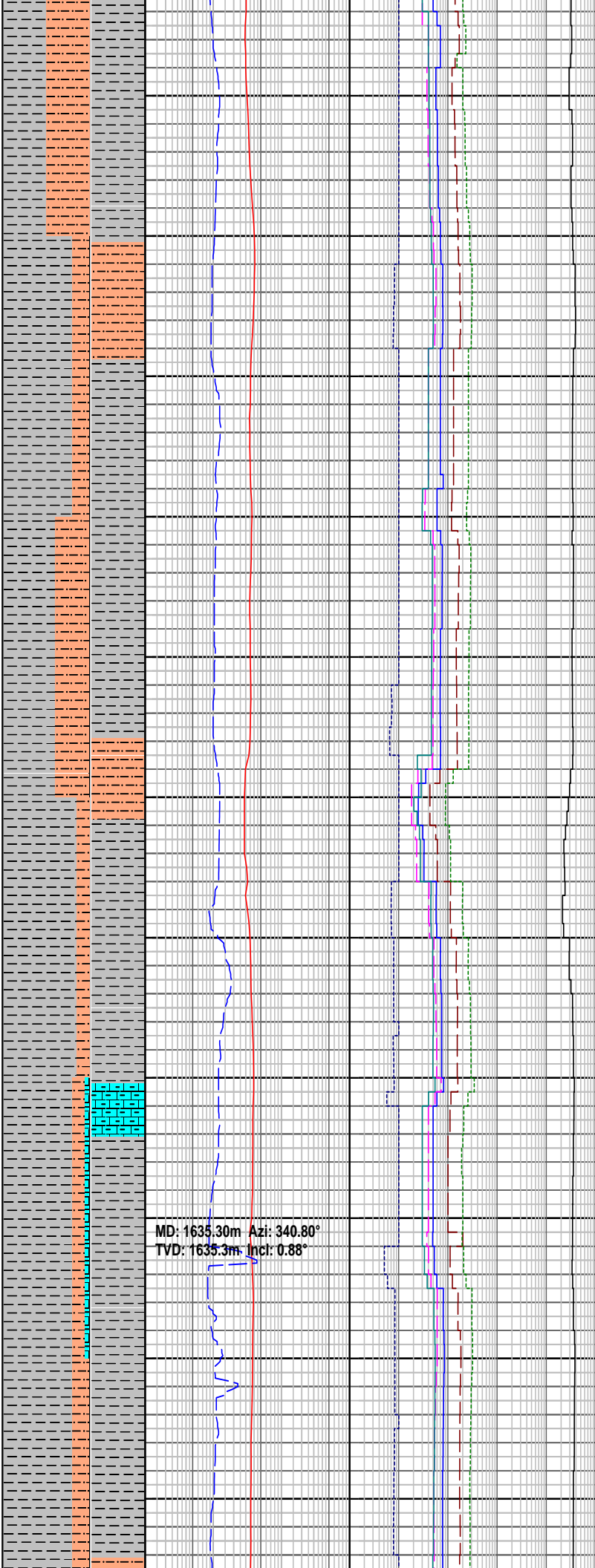
MW: 9.0 ppg	FV: 53
PV: 19	YP:32
Gels: 14/24/29	pH: 8.5

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



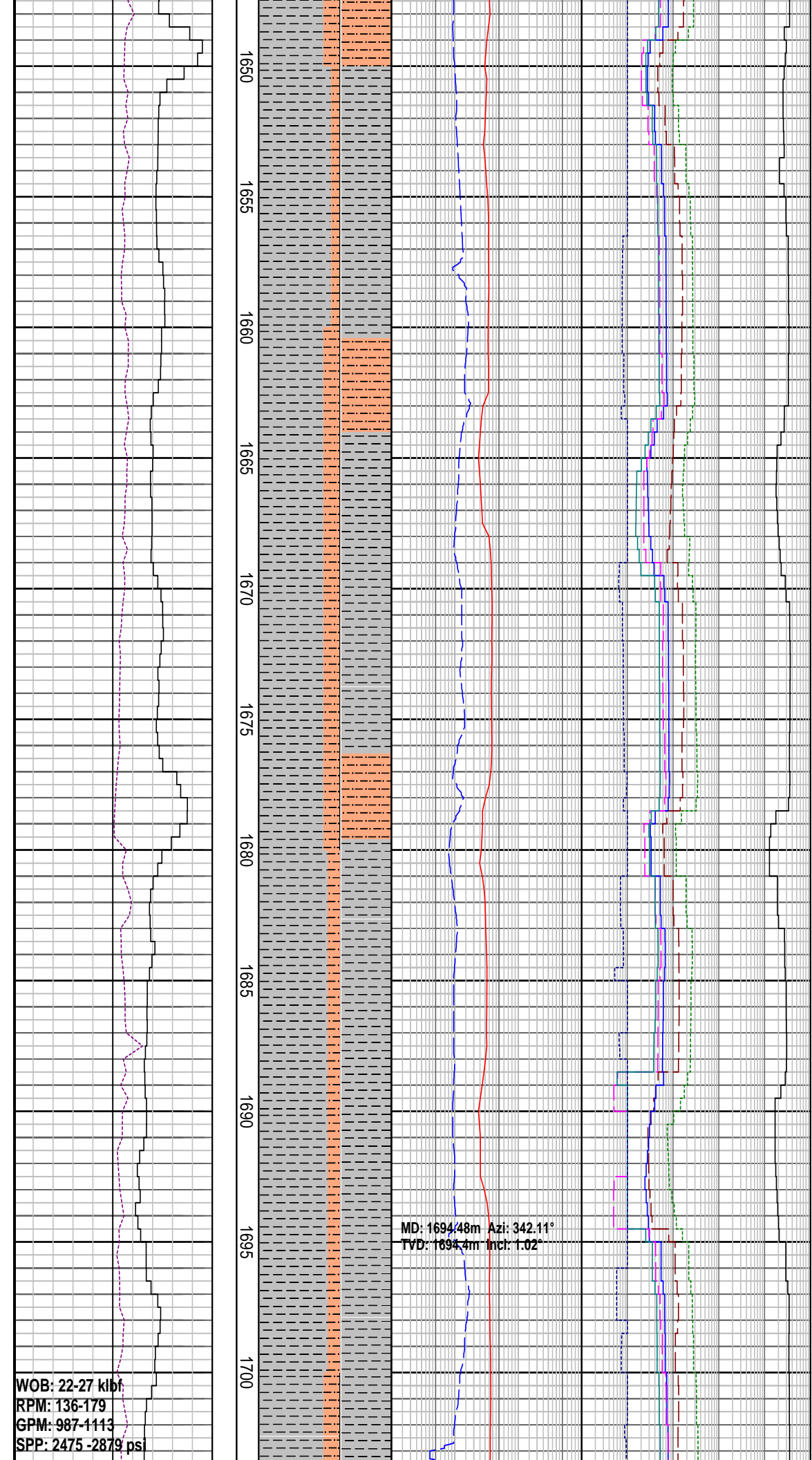
MD: 1635.30m Azi: 340.80°
TVD: 1635.3m Incl: 0.88°

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

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

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

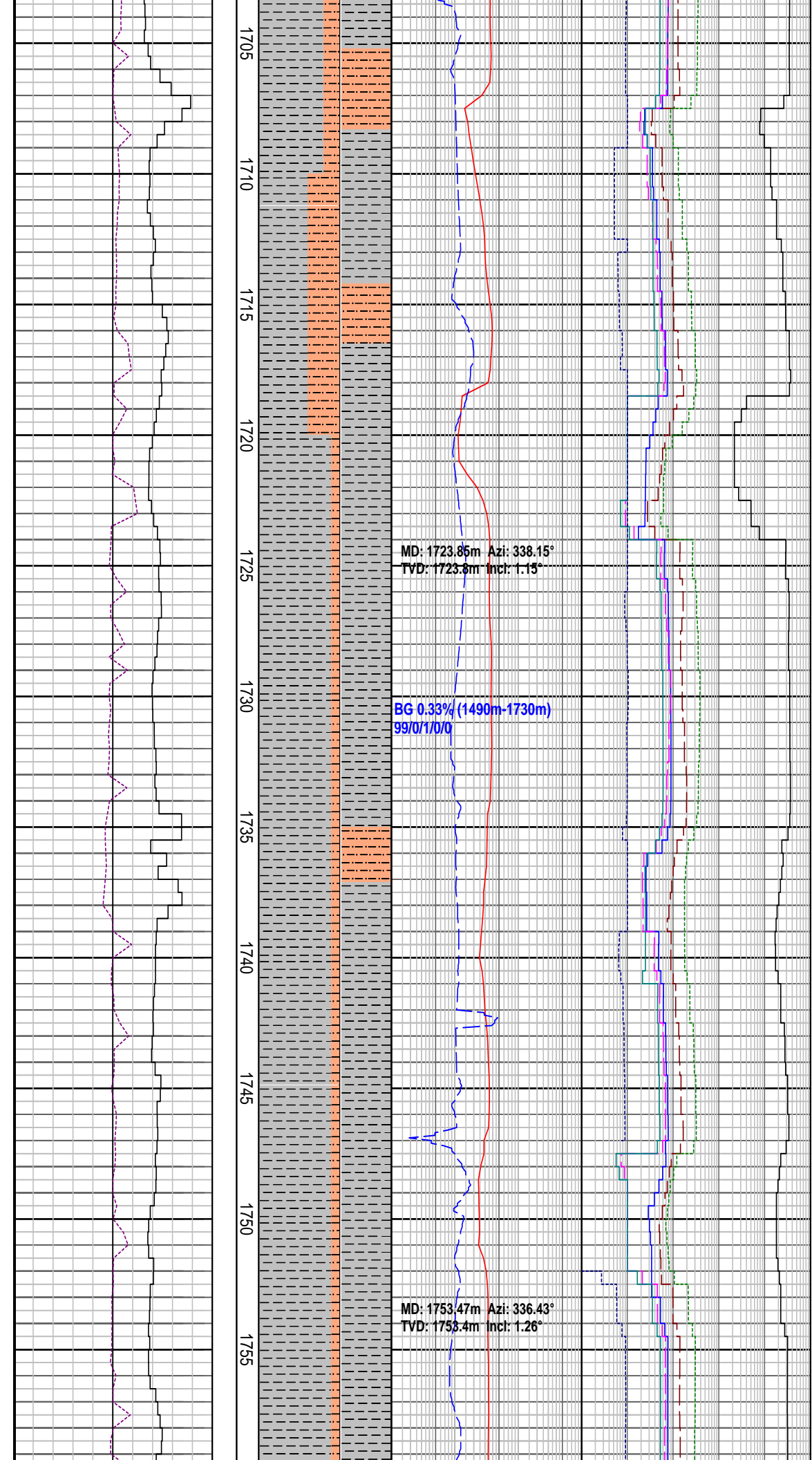
SILTSTONE: m gy-gnsh gy, frm-hd,
blky, arg mod calc, tr blk carb lam



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

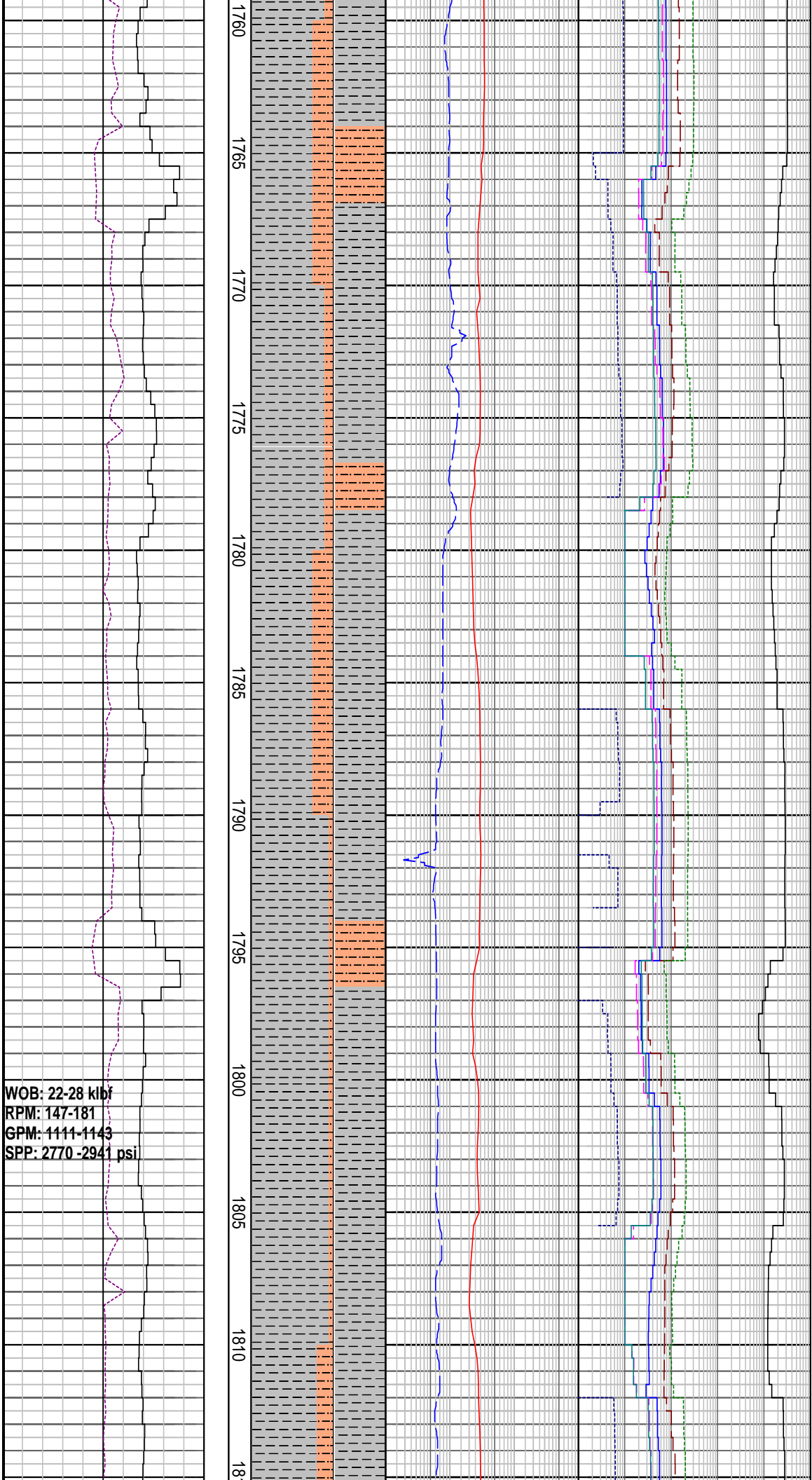
WOB: 22-27 klbf
RPM: 136-179
GPM: 987-1113
SPP: 2475 -2879 psi

MD: 1694.48m Azi: 342.11°
TVD: 1694.4m Inci: 1.02°



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, sbblk-bkly, sli slty, mod-hi calc

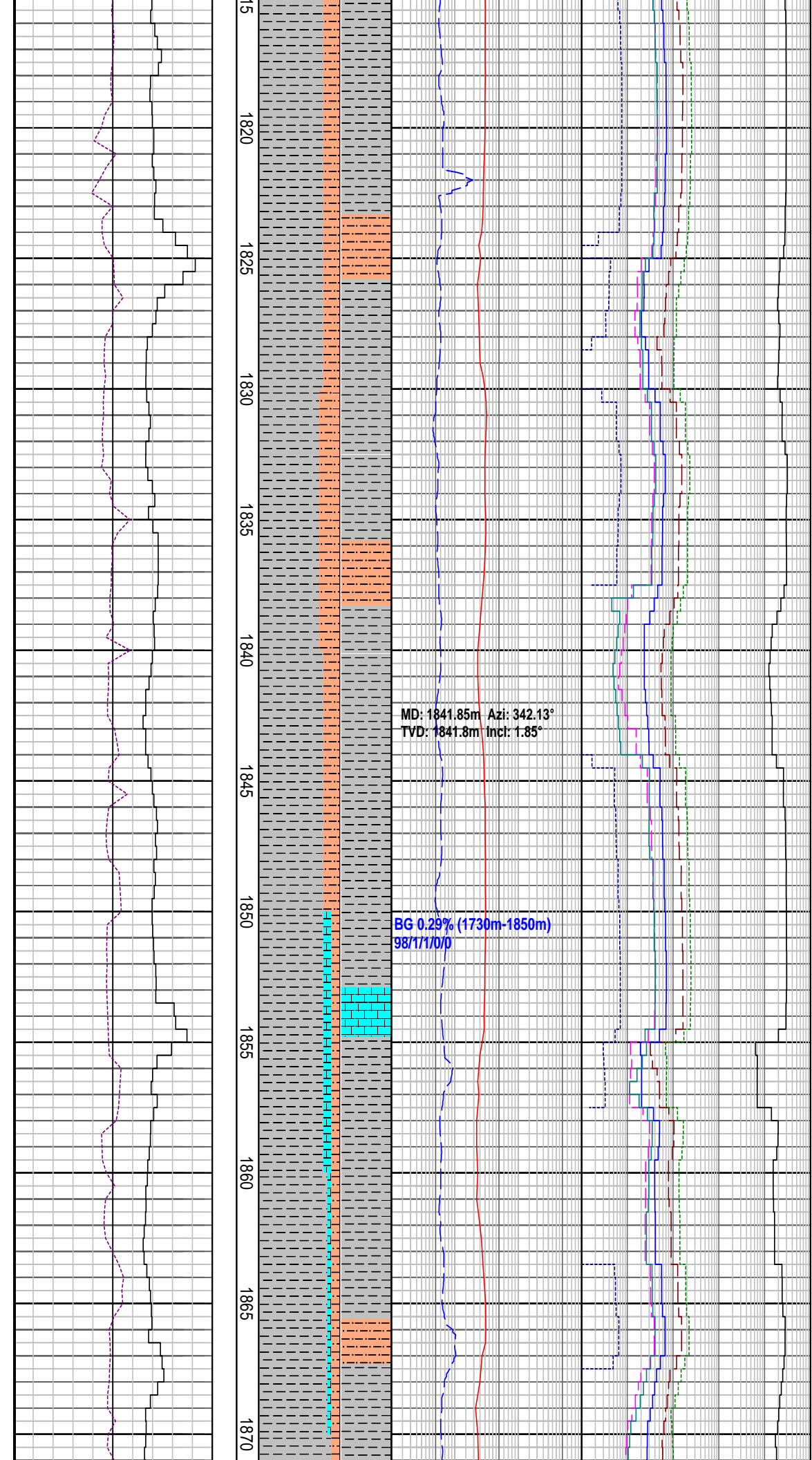


SILTSTONE: m gy-gnsh gy, frm-hd, blk, arg mod calc, tr blk carb lam, tr pyr

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

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

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

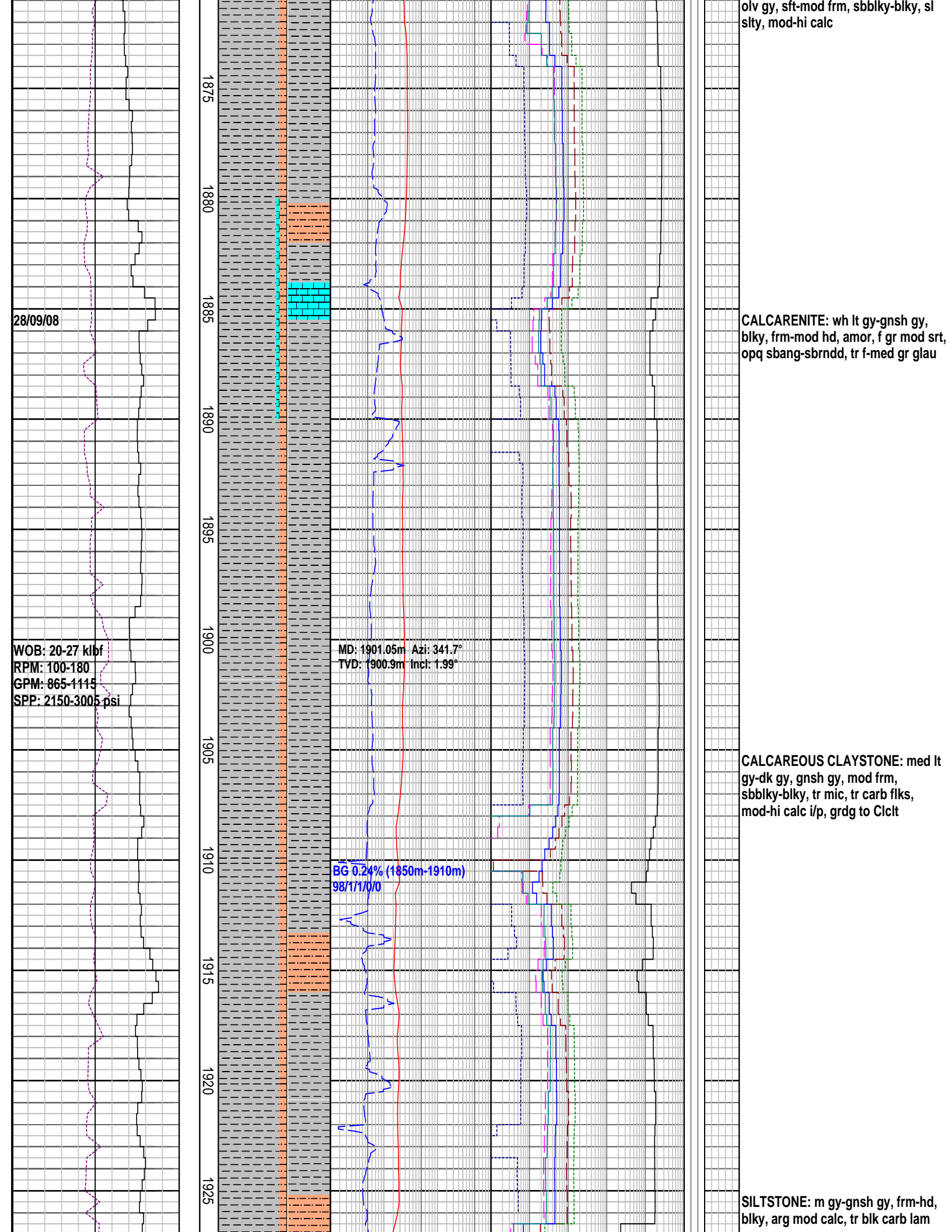
SILTSTONE: m gy-gnsh gy, frm-hd, blk, arg mod calc, tr blk carb lam

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

BG 0.29% (1730m-1850m)
 98/171/0/0

CALCARENITE: m gy-gnsh gy, sbrndd-blky, frm-mod hd, v f gr, sb ang, tr glau

CALCAREOUS CLAYSTONE: dk gy-dk



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°

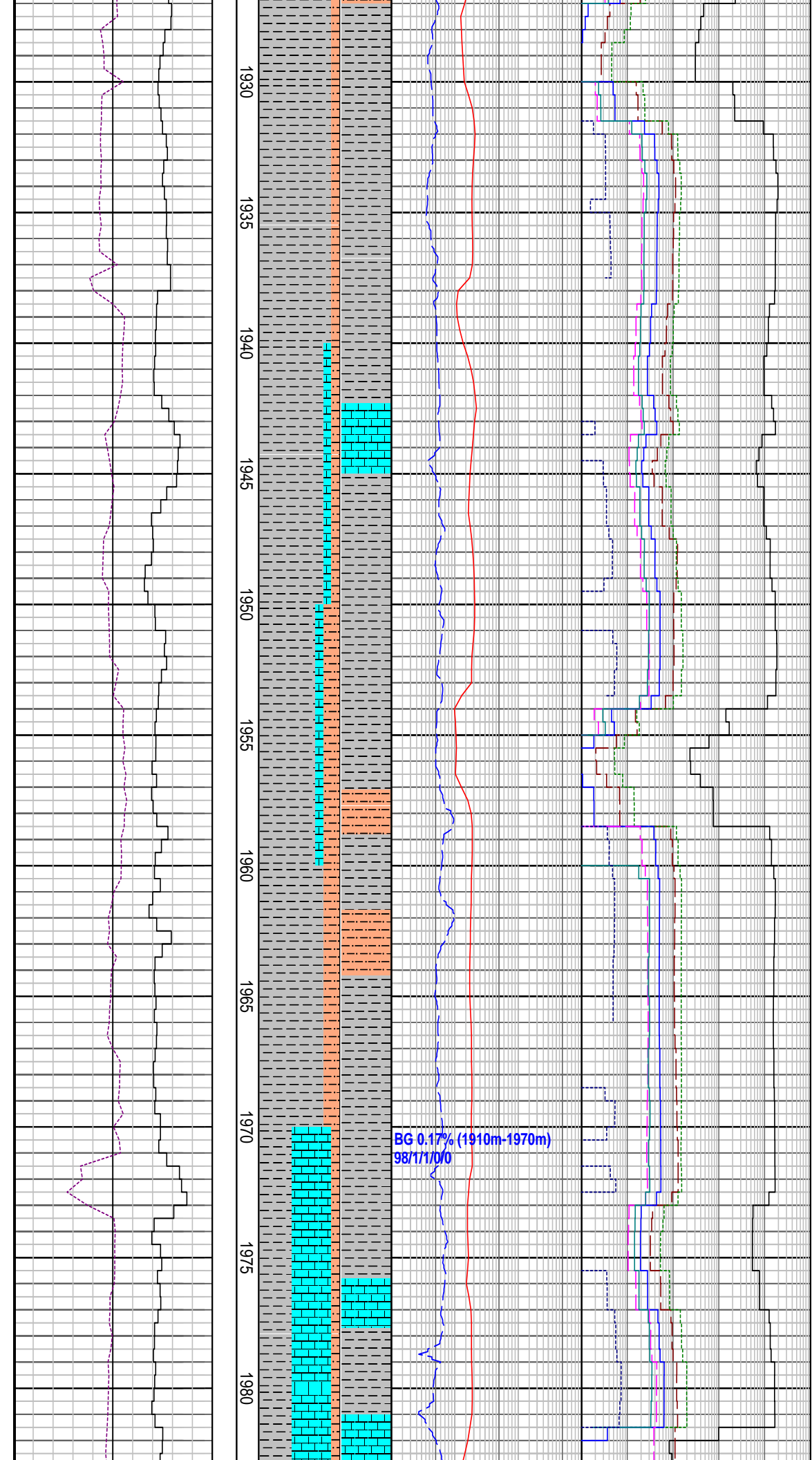
BG 0.24% (1850m-1910m)
 98/1/1/0/0

olv gy, sft-mod frm, sbblky-blky, sl
 slty, mod-hi calc

CALCARENITE: wh lt gy-gnsh gy,
 blk, frm-mod hd, amor, f gr mod srt,
 opq sbang-sbrndd, tr f-med gr glau

CALCAREOUS CLAYSTONE: med lt
 gy-dk gy, gnsh gy, mod frm,
 sbblky-blky, tr mic, tr carb flks,
 mod-hi calc i/p, grdg to Clct

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



1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980

CALCARENITE: lt gy-m plv gy, gnsh gy, sbrndd-blky, frm-mod hd, v f gr, sb ang, tr mic

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

BG 0.17% (1910m-1970m)
987171/0/0

CALCULITITE: pl gy-m gy, gnsh gy, sft-frm, sbbkly, com cal Sit

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

1985
1990
1995
2000
2005
2010
2015
2020
2025
2030
2035

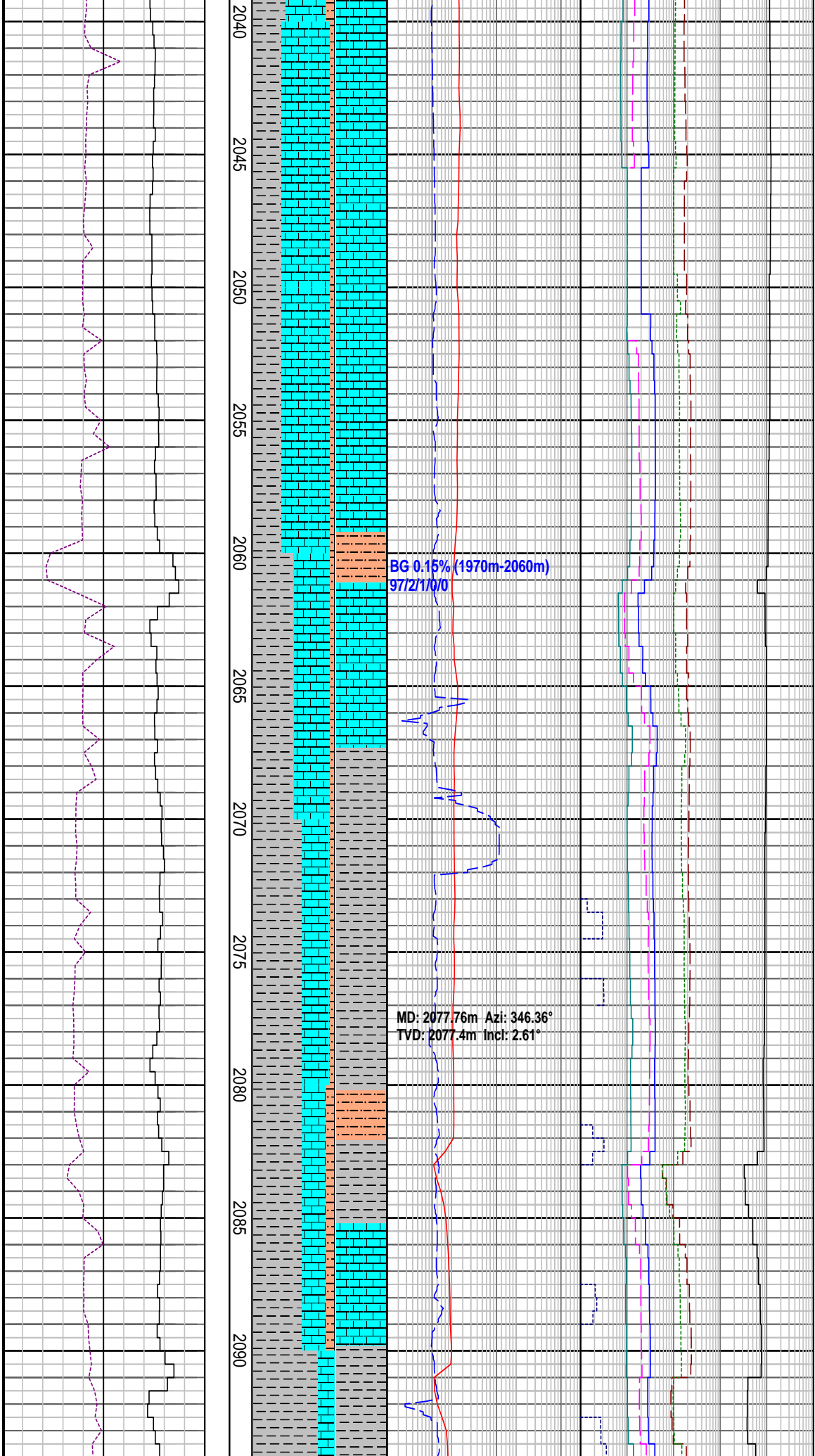
MD: 2018.76m Azi: 344.0°
TVD: 2018.5m Incl: 2.33°

CLAYSTONE: m lt gy-dk gy, gnsh gy, mod frm, sblbky-blky, tr mic, tr carb flks, mod-hi calc i/p, grdg to ClcIt

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

CALCULITITE: pl gy-m gy, gnsh gy, sft frm, sblbky, com cal Sit

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



2040
2045
2050
2055
2060
2065
2070
2075
2080
2085
2090
2

BG 0.15% (1970m-2060m)
97/21/0/0

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

CALCULITE: lt olv gy-lt gy, sft frm, sbbkly, com cal Slit

SANDSTONE: lse, v lt-m gy, clr-trnsp, hd-v hd, f-m, sbrnrd-rnrd, mod wl srt, non calc, inf vis por, tr pyr

SILTSTONE: mod olv brn, gnsh brn, frm-hd, blk, arg, mod-hi calc, tr blk carb lam

CLAYSTONE: m lt gy-dk gy, gnsh gy, mod frm, sbbkly-blky, tr mic, tr carb flks, mod-hi calc i/p, grd to Clct

CLAYSTONE: m lt gy-dk gy, gnsh gy, mod frm, sbbkly-blky, tr mic, tr carb flks, mod-hi calc i/p

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

2095
2100
2105
2110
2115
2120
2125
2130
2135
2140
2145
2150

BG 0.10% (2060m-2100m)
95/2/2170

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

BG 0.09% (2100m-2127m)
97/4/3170

SILTSTONE: mod olv brn, gnsh brn, frm-hd, blk, arg, mod-hi calc, tr blk carb lam

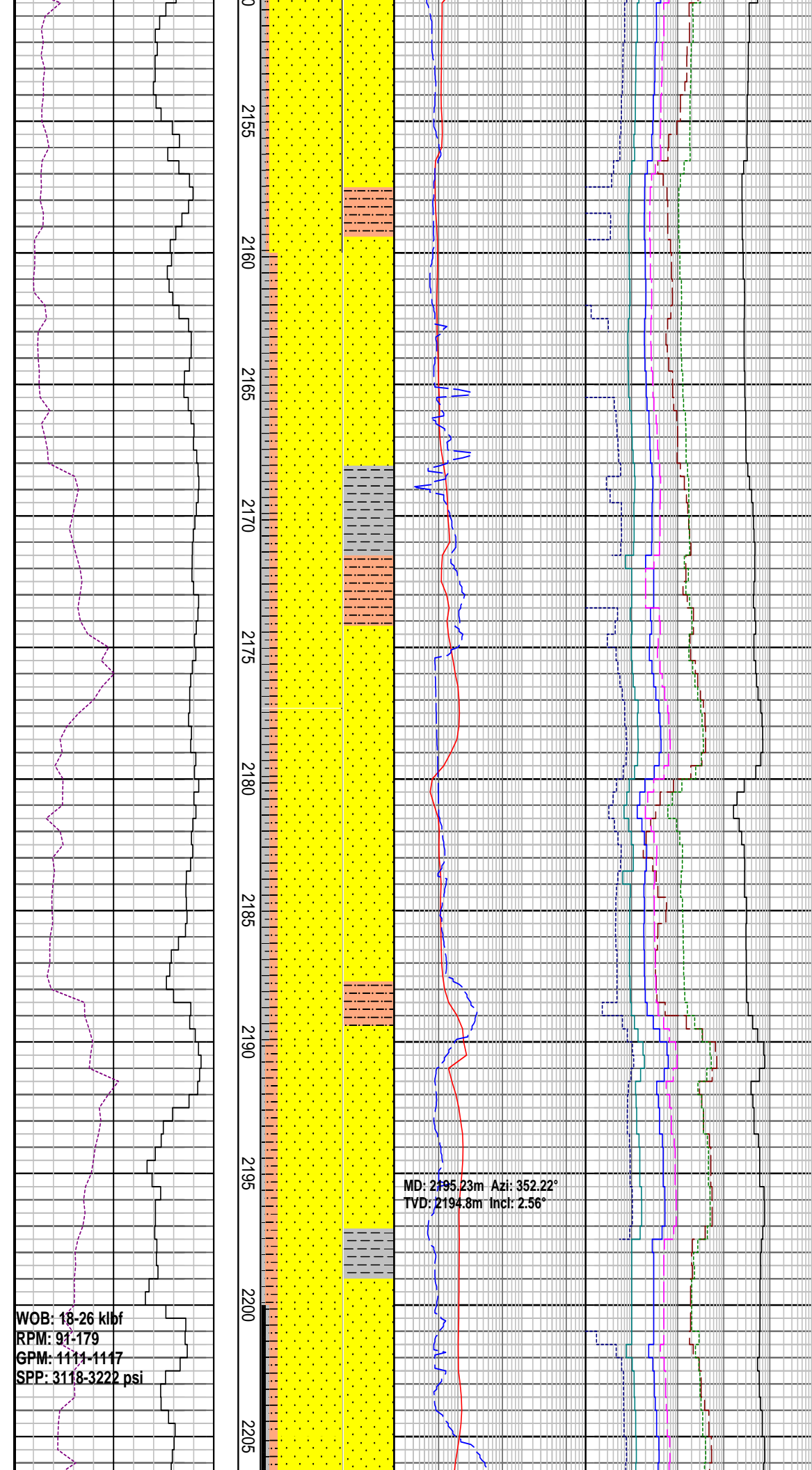
GLAUCONOTIC SANDSTONE: wh-lt gy, gnsh gy, frm-hd, sbbkly, vf-m, mod srt, sbsng qtz, com dk gy f-m gr, sbang-rndd galu, frm-hd, calc cmt

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

SANDSTONE: lse, clr-trnsp, occ opq, hd-vd, f-m, crs-v crs, v crs qtz gr, ang-sbrndd i/p, sbsph, pr srt, v inf por, rr pyr

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

SANDSTONE: lse, clr-trnsp, occ opq, hd-vd, f-m, crs-v crs, v crs qtz gr, ang-sbrndd i/p, sbsph, pr srt, v inf por, rr pyr



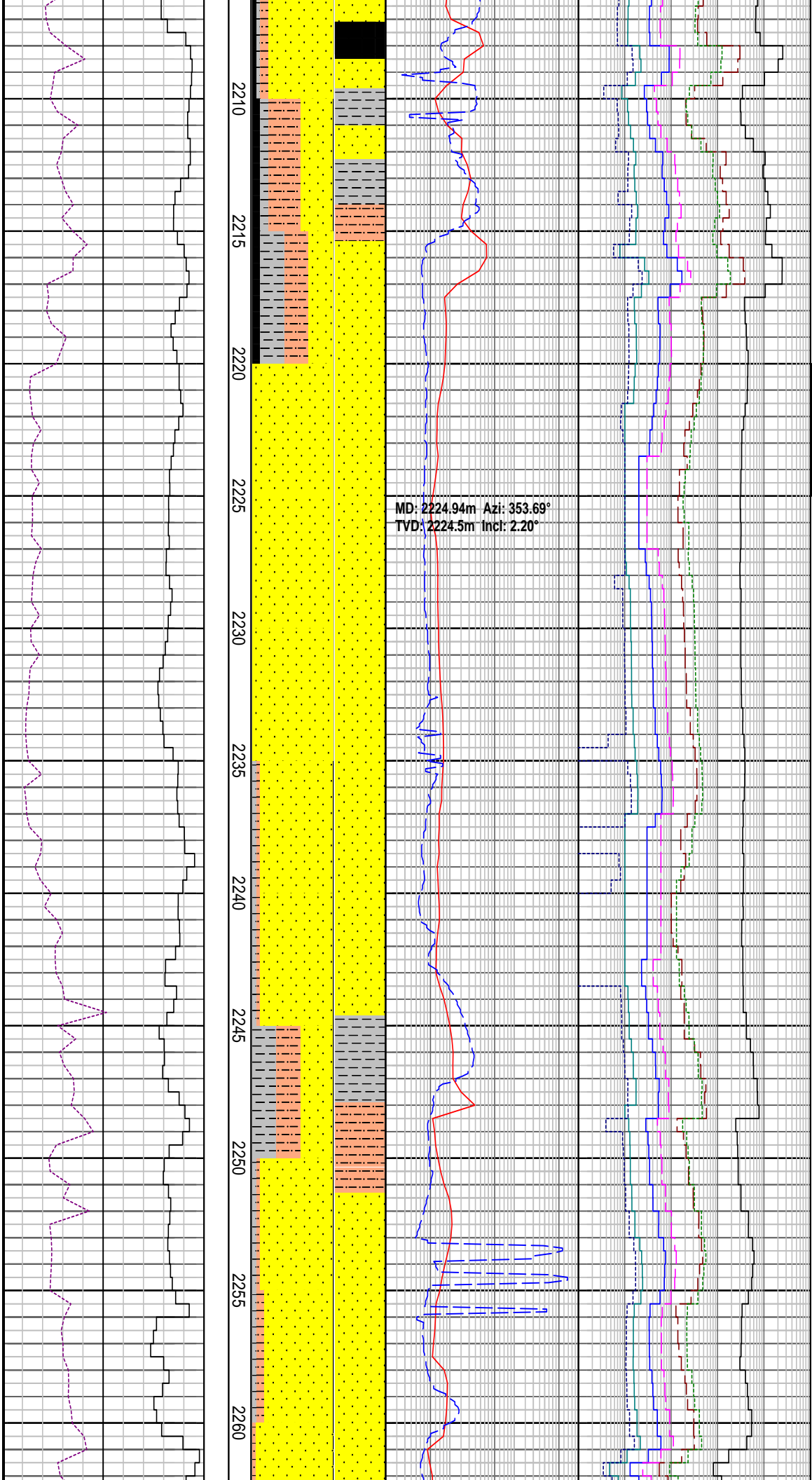
SILTSTONE: mod brn-olv gy, frm-hd, blky, arg, n calc

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

SANDSTONE: wh-lt gy, lse, crs-gran, v f tr md Sst, v brn md Sst tr, mod srt, sbrndd, trnsl qtz, tr pyr qtz, tr c

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



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

SILTSTONE: lt gy-olvgy, frm-hd, blk, arg, mod-hi calc

SANDSTONE: wh-lt gy, lse, crs-gran, v f tr md Sst, v brn md Sst tr, mod srt, sbrndd, trnsl qtz, tr pyr qtz, tr c

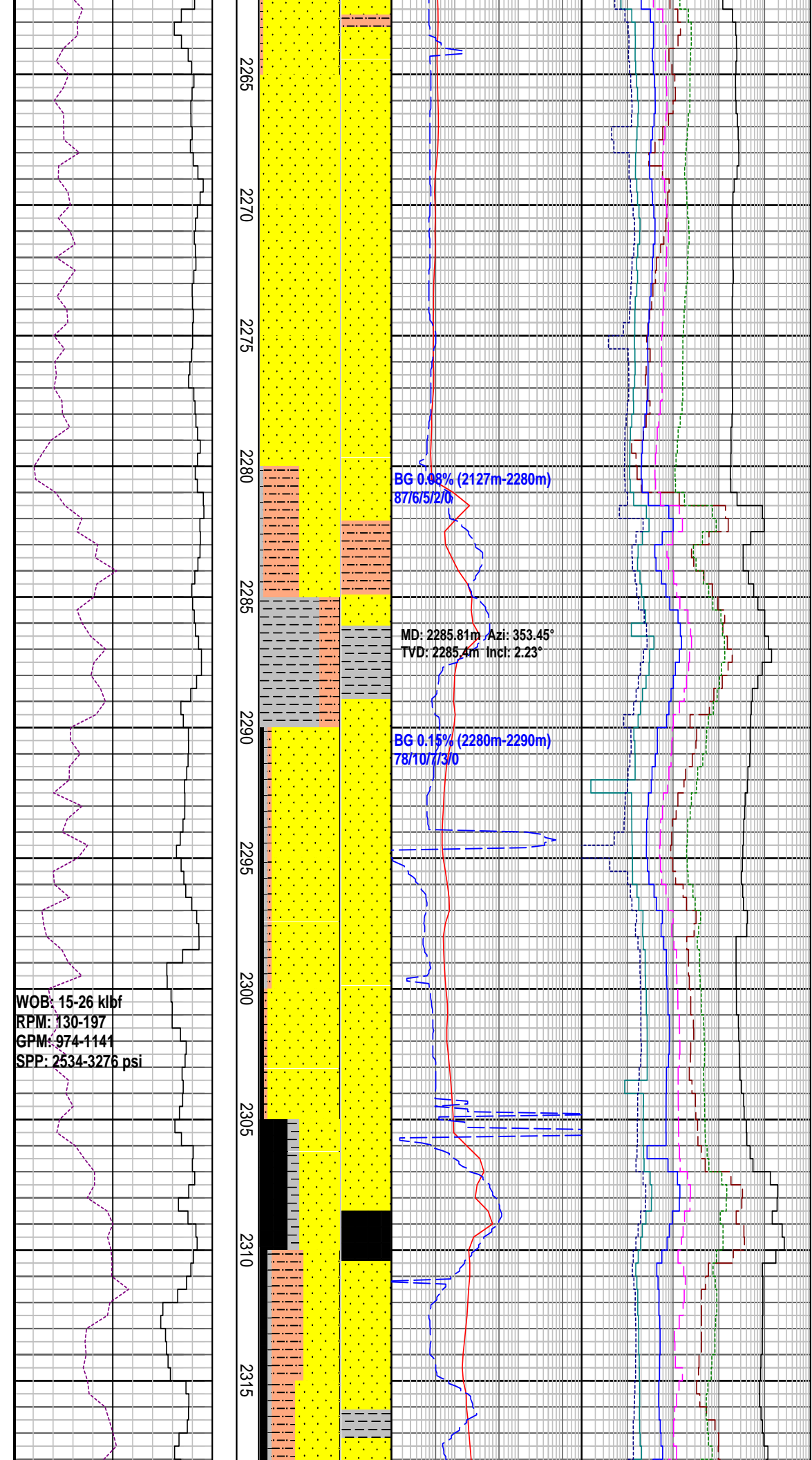
SHOWS (2220m-2225m): Tr mod brt yel-gr patchy fluor from vis blk liquid bitumen in silty vf sst. Very fast strmg brt grnsh wh cut fluor.

Wide spotty bright gr-yel fluor resi ring, pl brn vis residue.

SANDSTONE: wh-lt gy, lse, crs-gran, v f tr md Sst, v brn md Sst tr, mod srt, sbrndd, trnsl qtz, tr pyr qtz, tr c

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

SANDSTONE: wh-lt gy, lse, crs-gran, v f tr md Sst, v brn md Sst tr, mod srt, sbrndd, trnsl qtz, tr pyr qtz, tr c



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

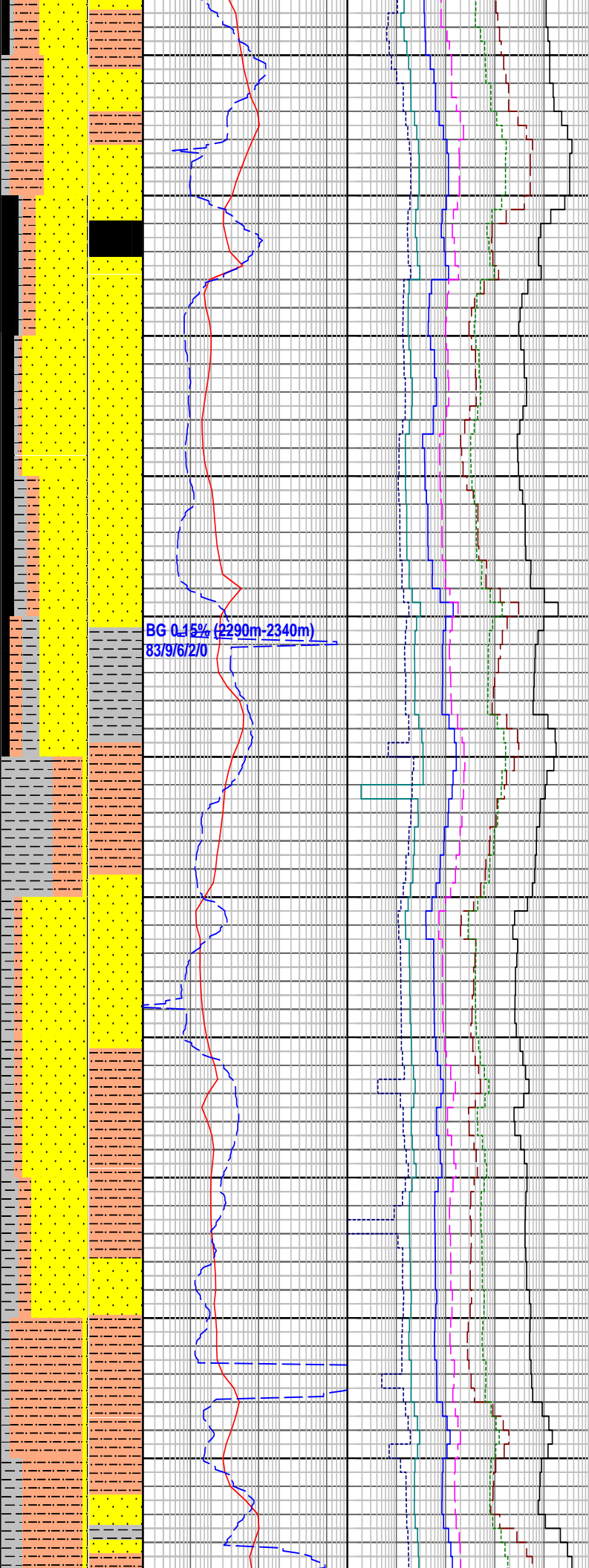
SILTSTONE: mod brn-olv gy, frm-hd, blkly, arg, n calc

SANDSTONE: wh-lt gy, lse, crs-gran, v f tr md Sst, v brn md Sst tr, mod srt, sbrndd, trnsl qtz, tr pyr qtz, tr c

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

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

2320
2325
2330
2335
2340
2345
2350
2355
2360
2365
2370



SANDSTONE: wh-lt gy, lse, crs-gran, v f tr md Sst, v brn md Sst tr, mod srt, sbrndd, trnsl qtz, tr pyr qtz, tr c

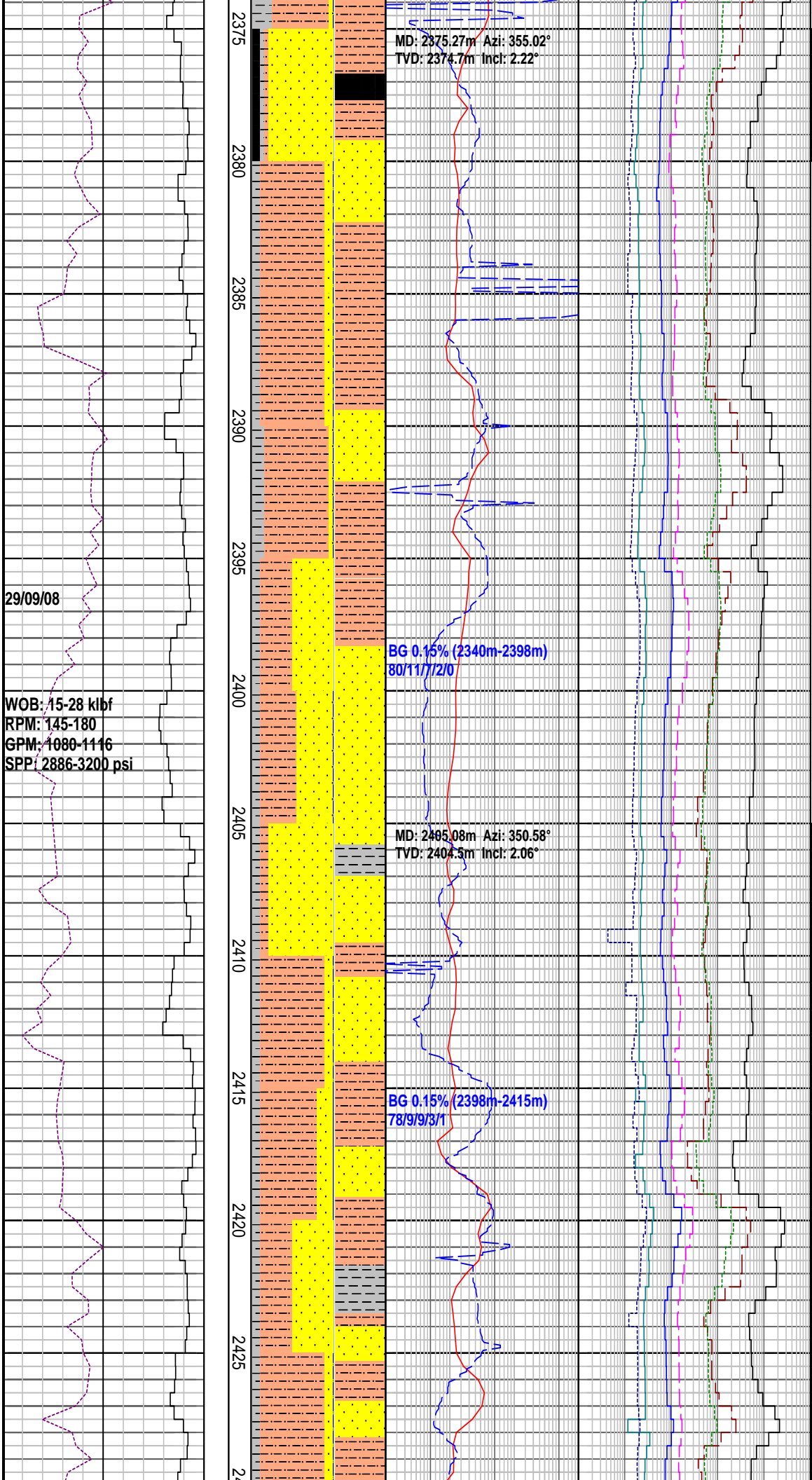
COAL : dk brn-blk, hd, ang, conch frac

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

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

SANDSTONE: wh-lt gy, lse, crs-gr, v f tr md Sst, v brn md Sst tr, mod srt, sbrndd, trnsl qtz, tr pyr qtz, tr c

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



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

SANDSTONE: wh-lt gy, lse, crs-gr, v f tr md Sst, v brn md Sst tr, mod srt, sbrndd, trnsl qtz, tr pyr qtz, tr c

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 i/p, blk, arg, carb lam, n calc

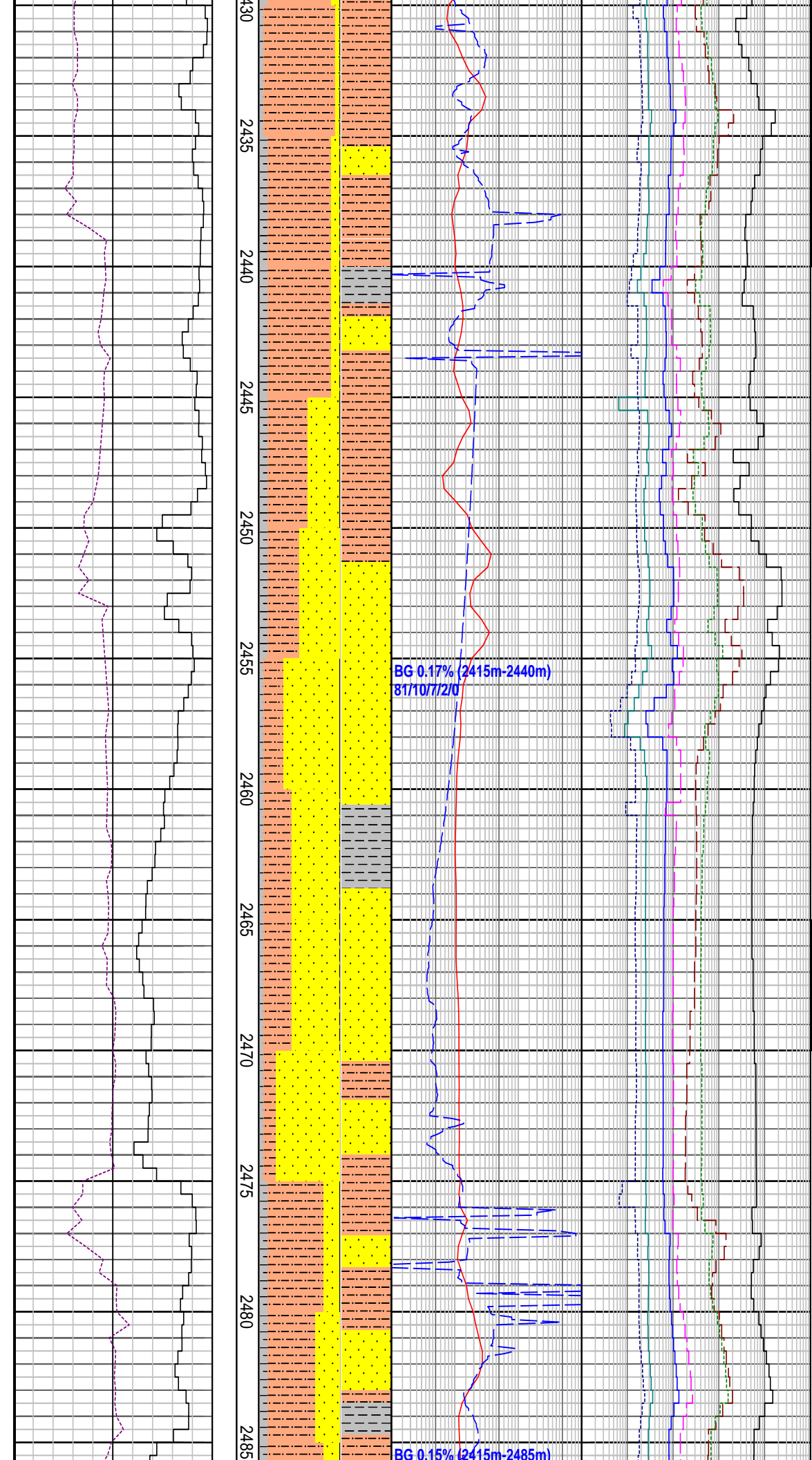
SANDSTONE: lse, clr-trnsp, hd-v hd, v-f, sbrndd-rndd, mod wl srt, wl cmt, non calc, inf vis por, tr pyr

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: lse, clr-trnsp, hd-v hd, f-m, sbrndd-rndd, mod wl srt, non calc, inf vis por, tr pyr

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



SANDSTONE: lse, v lt-m gy, clr-trnsp, hd-v hd, f-m, sbrndd-rndd, mod wl srt, n calc, inf vis por, tr pyr

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

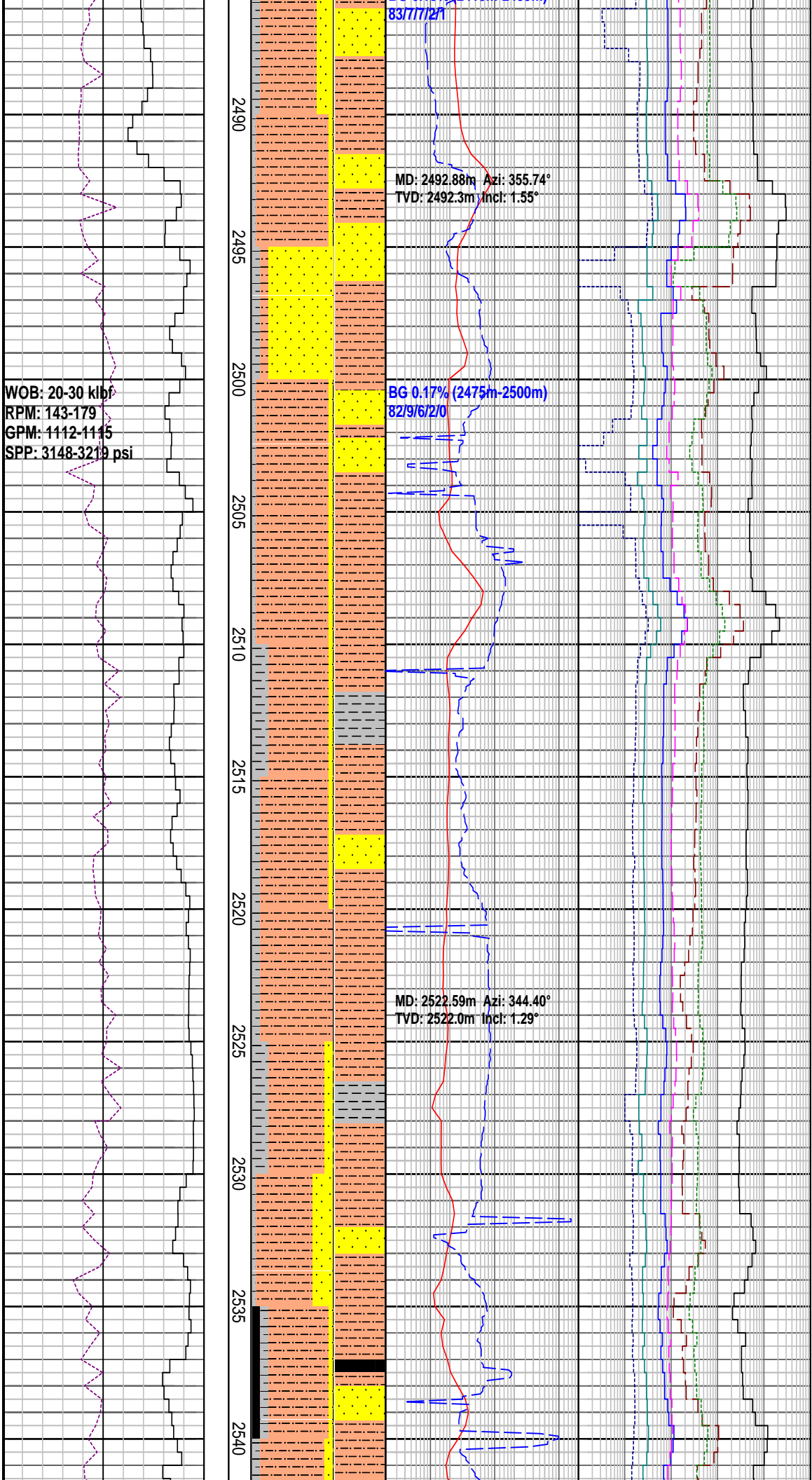
SILTSTONE: mod olvbrn-m gy, frm-mod hd, blkly, arg-carb non calc, tr mic flks, tr carb lam, n calc

SANDSTONE: lse, lt-m gy, clr-trnsp, frm-hd, f-m, wl srt sbang qtz, 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 lw sst, wl srt sbang qtz, sbrndd-rndd, mod srt, tr mic slty mtrx, com carb lam, n calc, inf vis por, tr xln pyr

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 olvbrn-m gy, frm-mod hd, blk, arg-carb non calc, tr mic flks, tr carb lam, n calc

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

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

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

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

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.

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

2545
2550
2555
2560
2565
2570
2575
2580
2585
2590
2595

BG 0.13% (2500m-2560m)
84/7/6/2/0

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

BG 0.12% (2560m-2590m)
85/6/7/2/0

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

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.

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

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

SILTSTONE: mod olv brn-mod gy, hd, arg-carb, n calc, tr c frag, mnr pyr, tr sd slst, tr mic, tr carb lam

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

COAL: dk brn-blk, hd, hackly to conch frag

SILTSTONE: mod olv brn-mod gy, hd, arg-carb, n calc, tr c frag, mnr pyr, tr sd slst, tr mic, tr carb lam

COAL: dk brn-blk, hd, hackly to conch frag

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

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

30/09/08

2600
2605
2610
2615
2620
2625
2630
2635
2640
2645
2650

BG 0.10% (2590m-2605m)
84/4/9/2/1

BG 0.09% (2605m-2620m)
86/2/8/3/1

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

COAL: dk brn-blk, hd, hackly to conch frag

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

SANDSTONE: v lt gy-m brn gy, frm-mod hd, v wl srt, sb ang qtz, tr c, tr pyr, wk sil cmt, com carb lam,

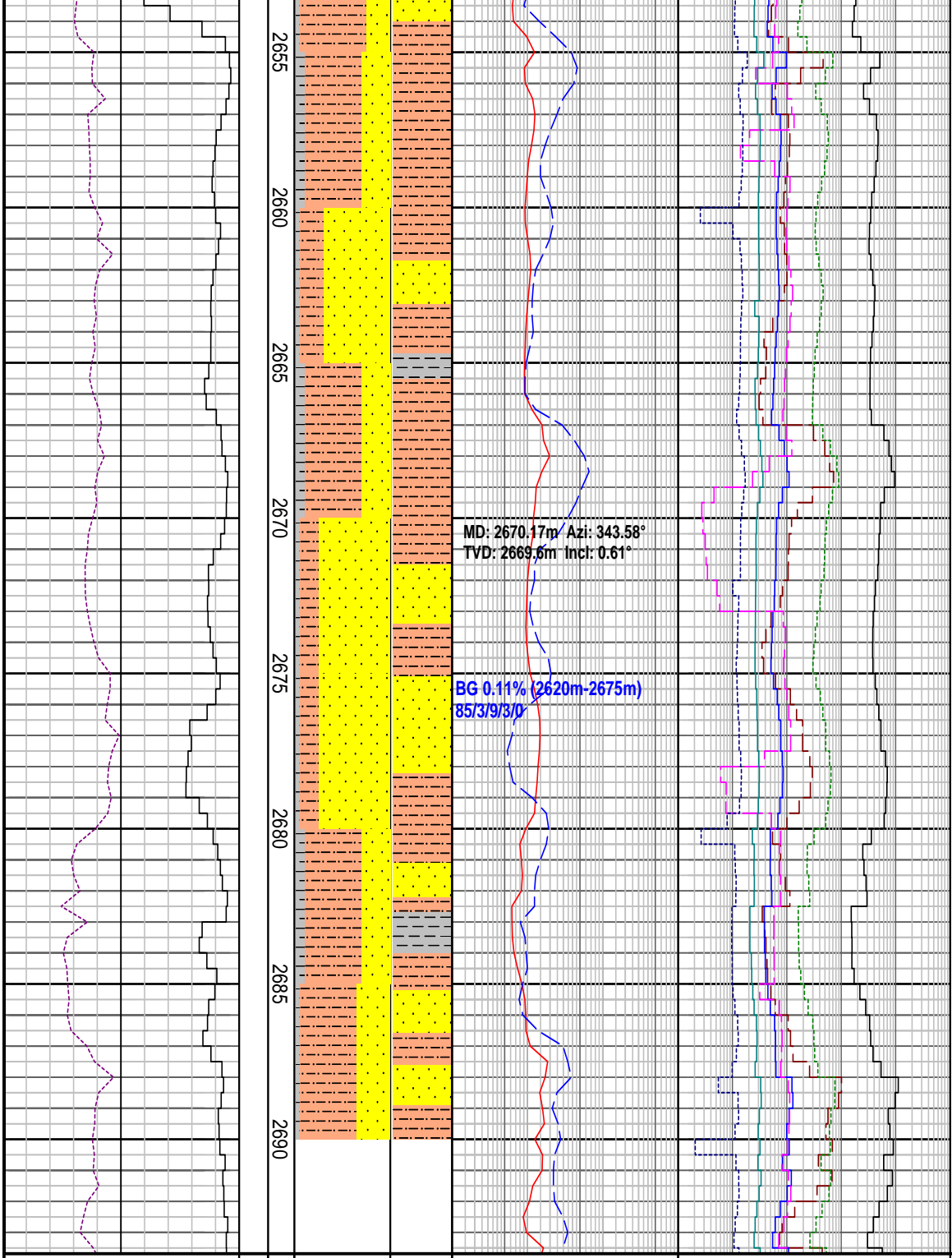
SANDSTONE: v lt gy-m brn gy, frm-mod hd, v f-f, v wl srt, sb ang qtz, tr c, tr pyr, wk sil cmt, com carb lam,

SILTSTONE: mod olv brn-mod gy, frm-hd, arg carb, n calc, tr coal frag, mnr pyr, tr sd slst, tr mic, tr carb lam

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

SANDSTONE: clr-trnsp, lt gy-m gy, frm-mod hd, vf-f, mod wl srt, sbang-sbrdd, tr coal, wk sil cmt, com carb lam, tr pyr nod, inf vis por

SANDSTONE: clr-trnsp, lt gy-m gy, frm-mod hd, vf-f, mod wl srt, sbang-sbrdd, tr coal, wk sil cmt, com carb lam, tr coal, tr pyr nod, inf vis por



SANDSTONE: clr-trnsp, lt gy-m gy, frm-mod hd, vf-f, wl srt, sbang-rnnd, tr coal, wk sil cmt, com carb lam, tr coal, tr pyr nod, inf vis por

SILTSTONE: pl gy-mod olv brn, dk gy, frm-hd, arg carb, n calc, tr coal frag, mnr pyr, tr sd Slst, tr mic, tr carb lam

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

SANDSTONE: clr-trnsp, lt gy-m gy, frm-mod hd, vf-f, wl srt, sbang-rnnd, tr coal, wk sil cmt, com carb lam, tr coal, tr pyr nod, inf vis por

SILTSTONE: pl gy-mod olv brn, dk gy, frm-hd, arg carb, n calc, tr coal frag, tr pyr, tr mic, tr carb lam

FORMATION EVALUATION LOG

Drilling Rate		CORE	MD meters 1:200	LITHOLOGY %	INTERPRETED LITHOLOGY	TOTAL GAS & RESISTIVITY		CHROMATOGRAPH					Oil Show	Calcmetry	Lithology Description																	
ROP (m/hr)	WEIGHT ON BIT (klbf)					ROP Backup (m/hr)	Total Gas %	Resistivity Deep	Methane ppm	Ethane ppm	Propane ppm	iso-Butane ppm				n-Butane ppm	iso-Pentane ppm	n-Pentane ppm	CaCO3 %	MgCO3 %												
200	160	120	80	40	0.2	0.1	1	10	200	ohm.m	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	10000	10000	10000	10000	10000	10000	10000	10000	10000	0	100	100	0