



Company : Stuart Petroleum Ltd

Well : Bazzard-1

Interval : 81.00 - 3463.95 meters

Created : 09/Oct/2008 1:16:42 PM



INTEQ

FORMATION EVALUATION LOG

Drilling Rate ROP (m/hr)	CORE	LITHOLOGY %	INTERPRETED LITHOLOGY	TOTAL GAS & RESISTIVITY		CHROMATOGRAPH					Oil Show	Calcimetry	Lithology Description	
				Total Gas %	Resistivity Deep	Methane ppm	Ethane ppm	Propane ppm	iso-Butane ppm	n-Butane ppm				iso-Pentane ppm
200 160 120 80 40	MD meters 1:200			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	
WEIGHT ON BIT (klbf)				10	20	30	40	50	10000	10000	10000	10000	10000	100
ROP Backup (m/hr)				ohm.m	200									
400 360 320 280 240														
Gamma Ray														
0 200														
API														

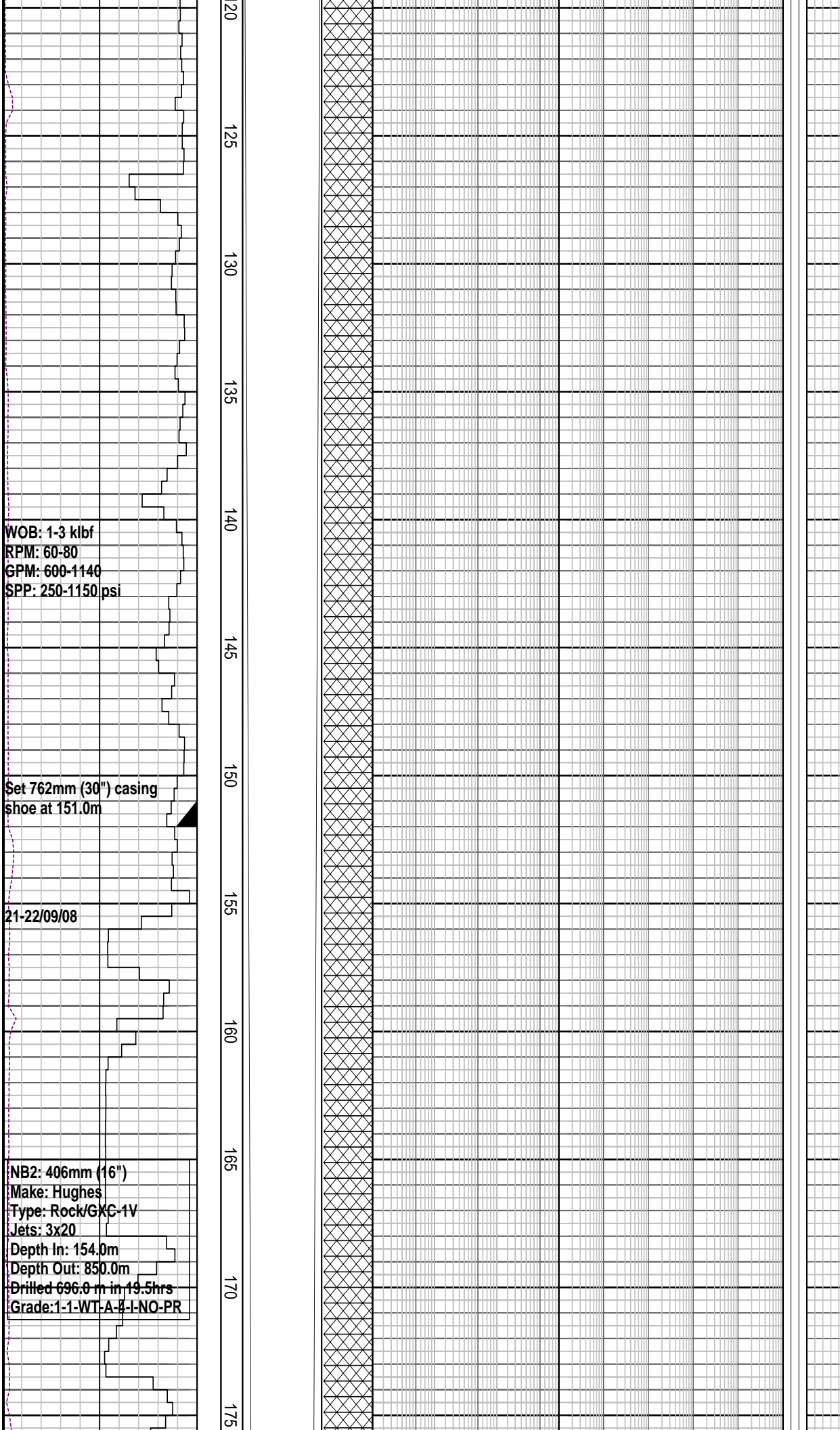
	85													
	90													
	95													
	100													
	105													

NB1: 660mm (26")
 914mm (36") H/Opener
 Make: Reed
 Type: Rock/Y11C
 Jets: 3x22, 1x16
 Depth In: 106.4m
 Depth Out: 154.0m
 Grade: 1-1-WT-A-NB-I-NO-TD



Spud Bazzard-1 @ 2330 hrs
 on 20/09/08

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



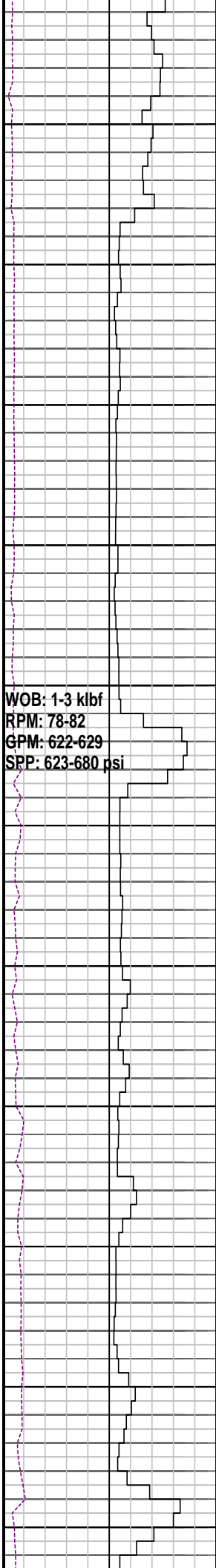
WOB: 1-3 klbf
RPM: 60-80
GPM: 600-1140
SPP: 250-1150 psi

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

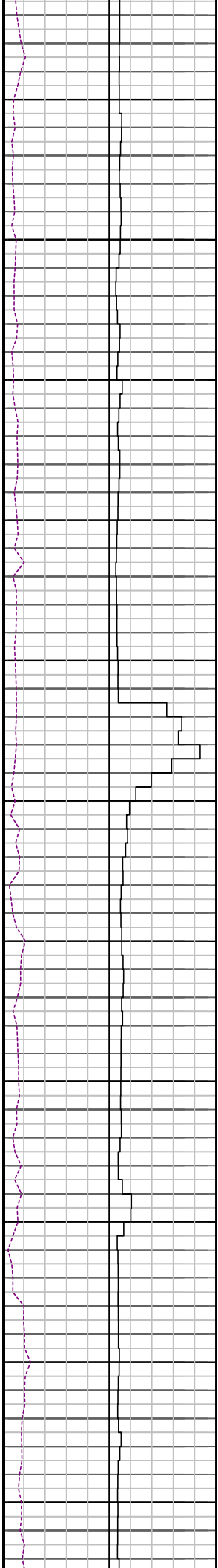
36" Hole Section TD 154.0m



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

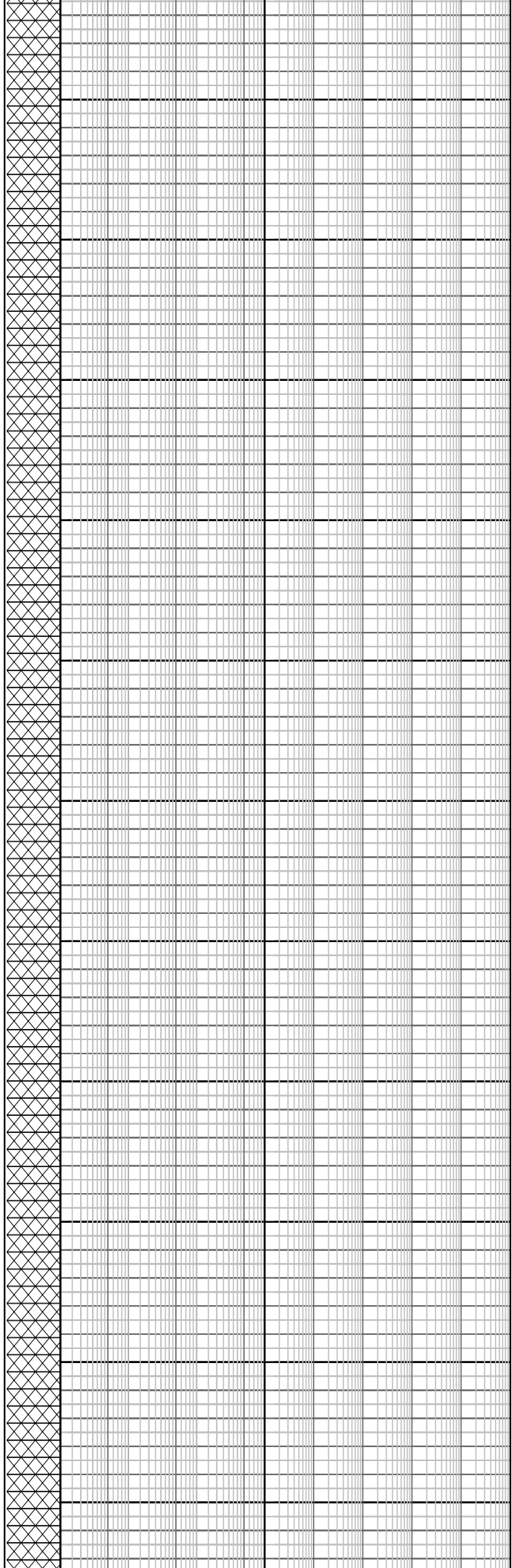
265

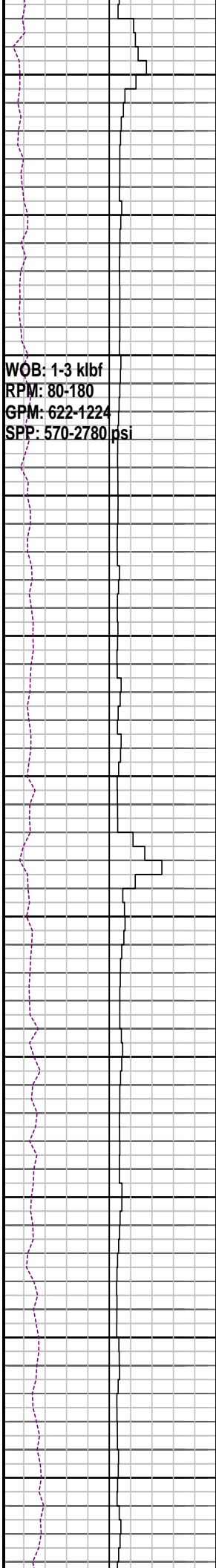
270

275

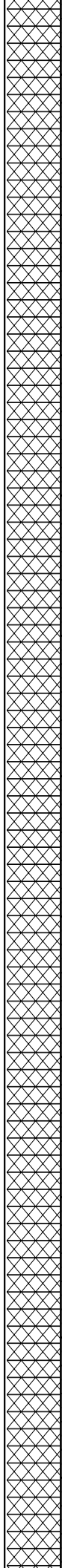
280

285



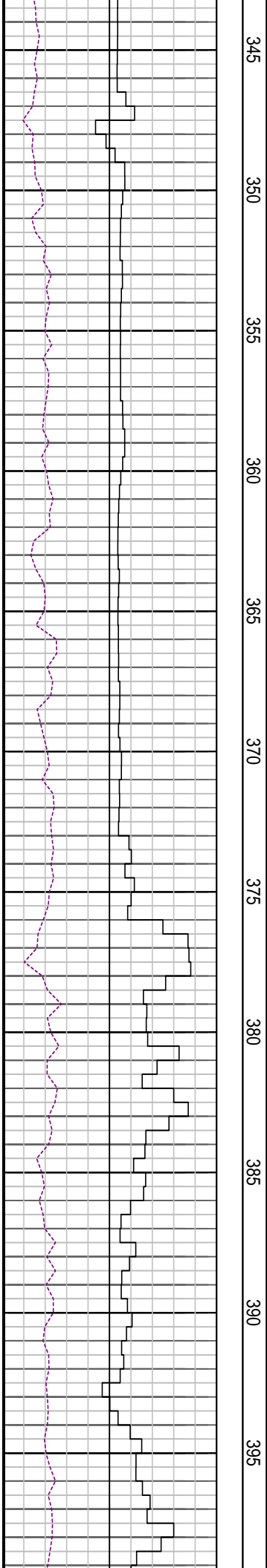


290
295
300
305
310
315
320
325
330
335
340



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

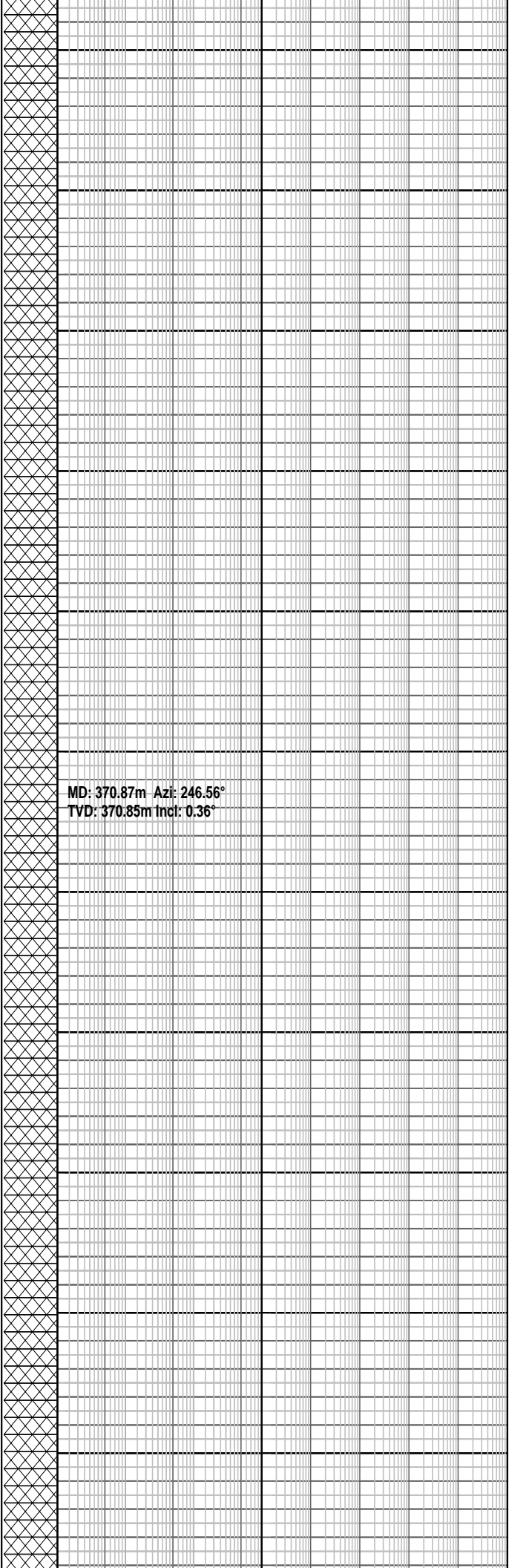
375

380

385

390

395

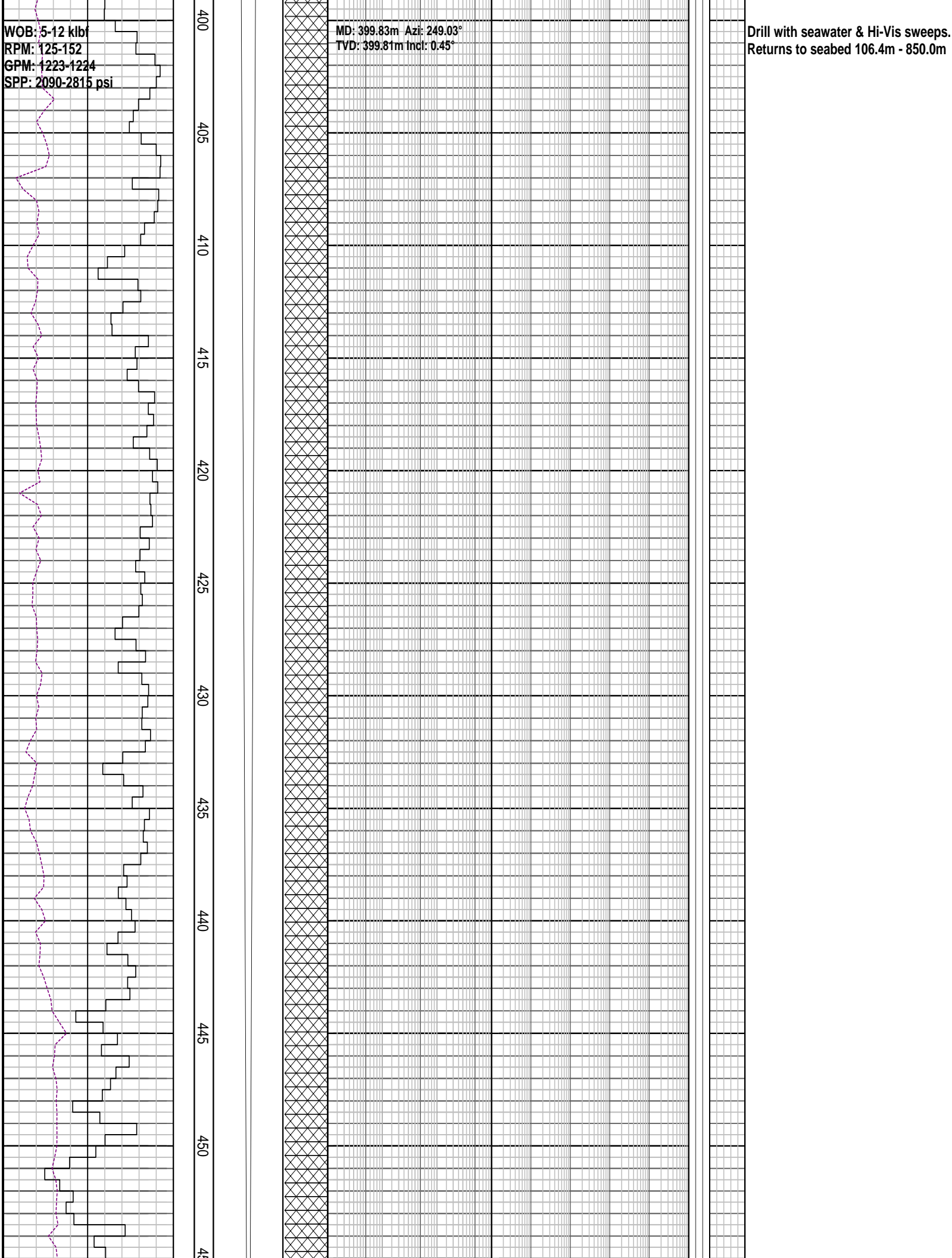


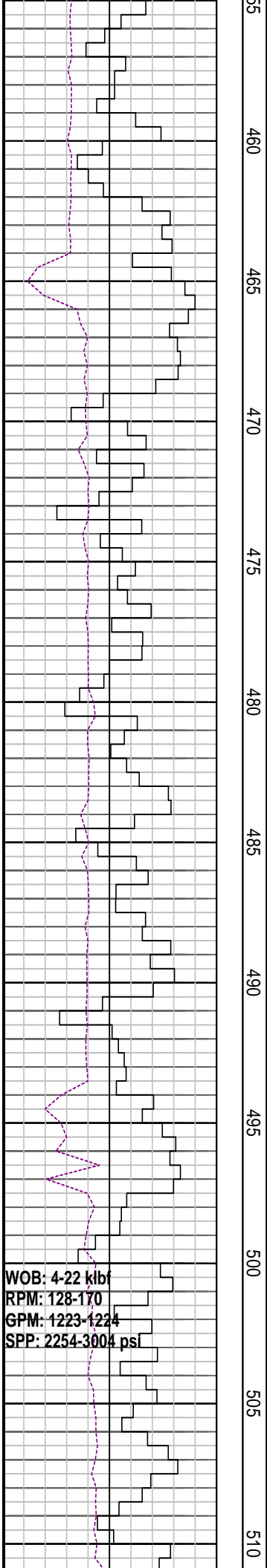
MD: 370.87m Azi: 246.56°
TVD: 370.85m Incl: 0.36°

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°

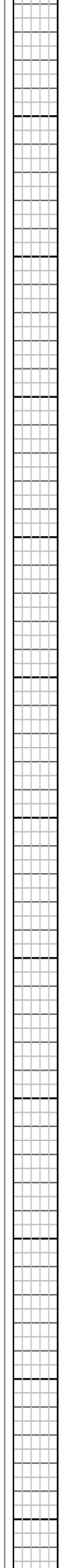
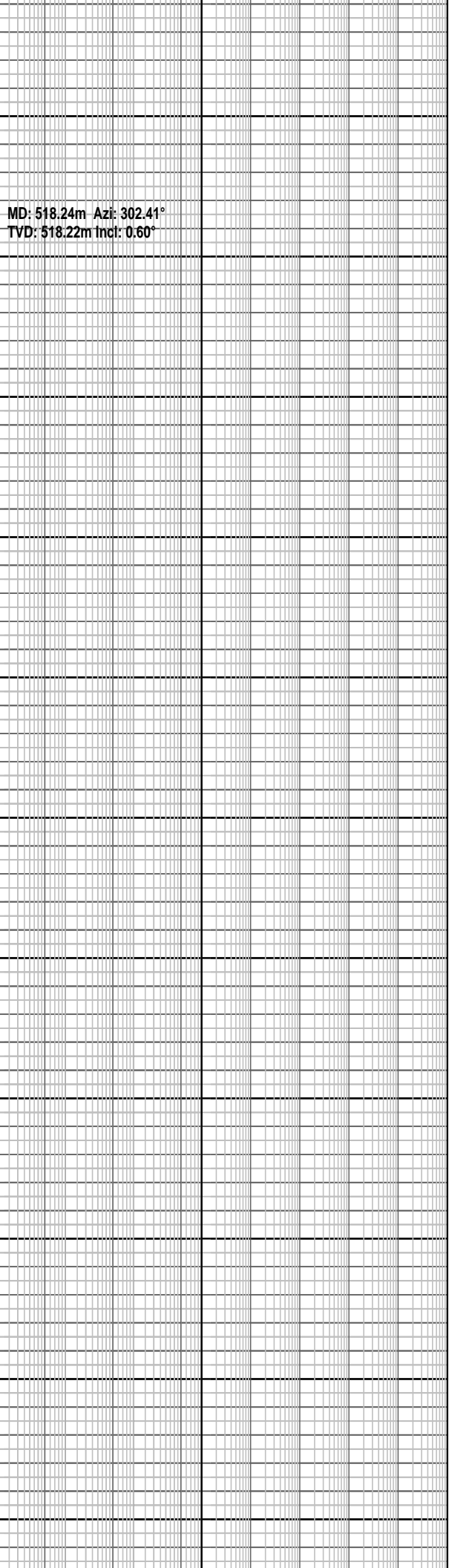
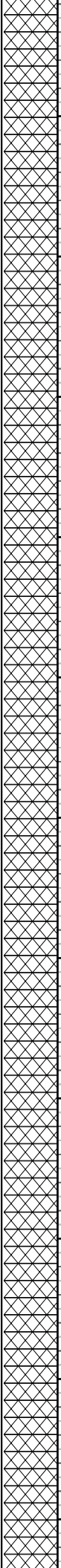
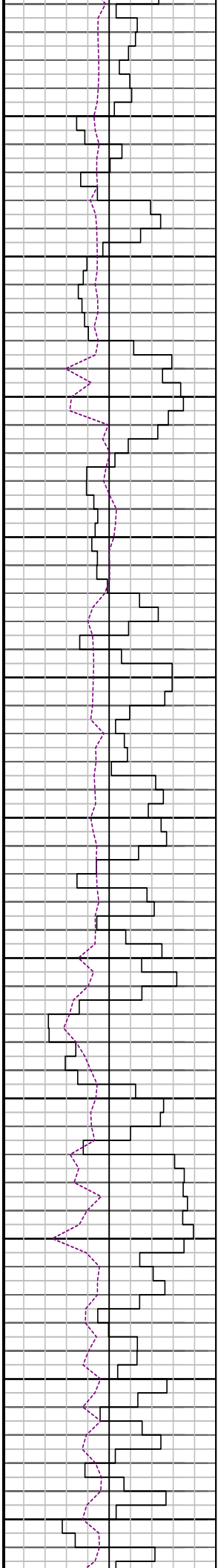
MD: 488.50m Azi: 298.03°
TVD: 488.48m Incl: 0.55°

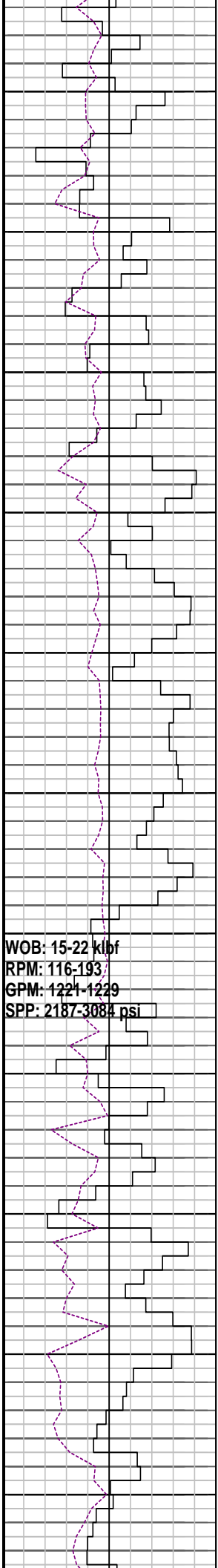
WOB: 4-22 kbf
RPM: 128-170
GPM: 1223-1224
SPP: 2254-3004 psi

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°



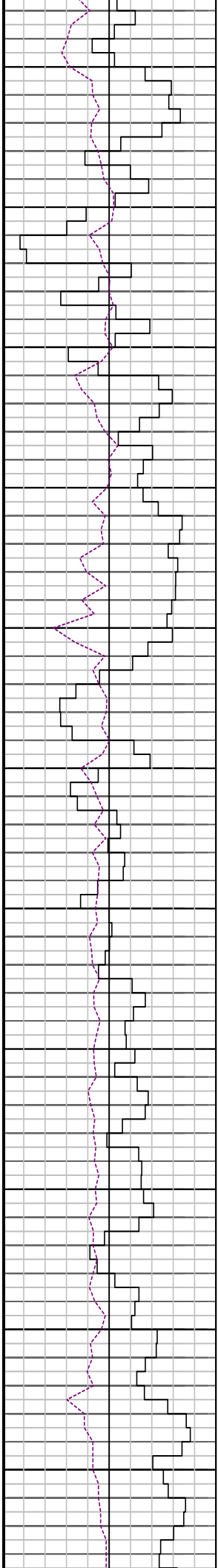


570
575
580
585
590
595
600
605
610
615
620

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

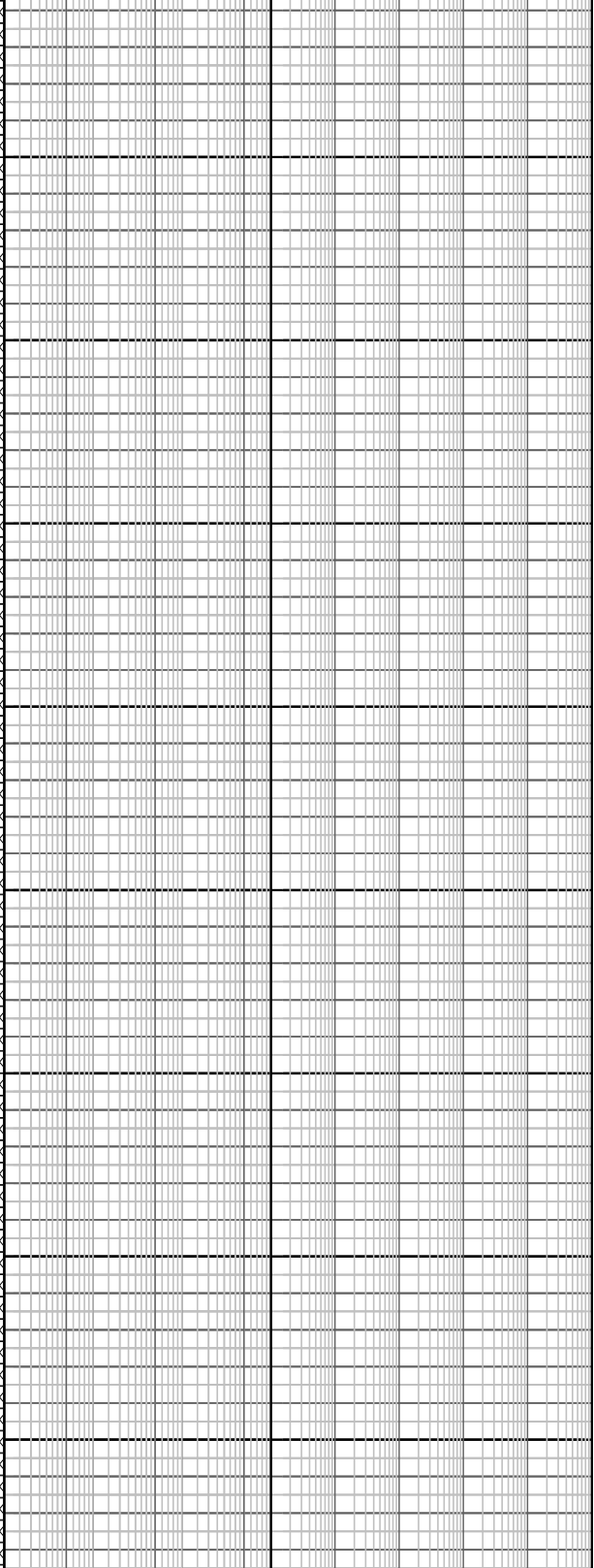
665

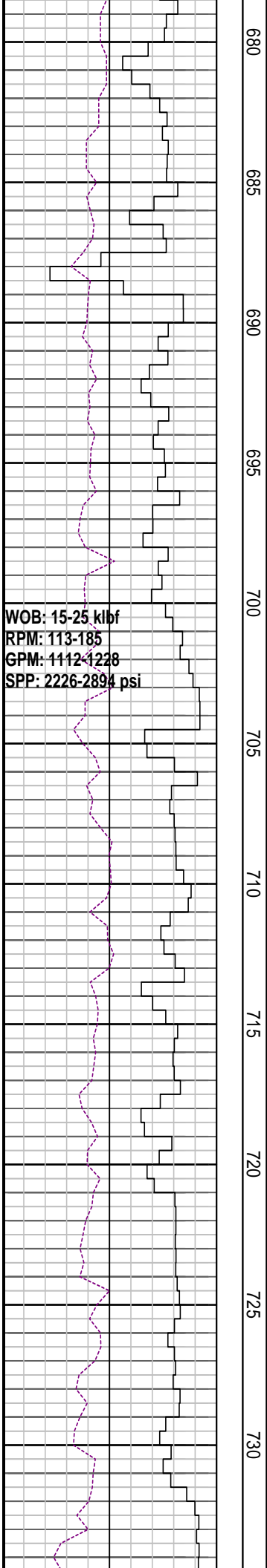
670

675



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



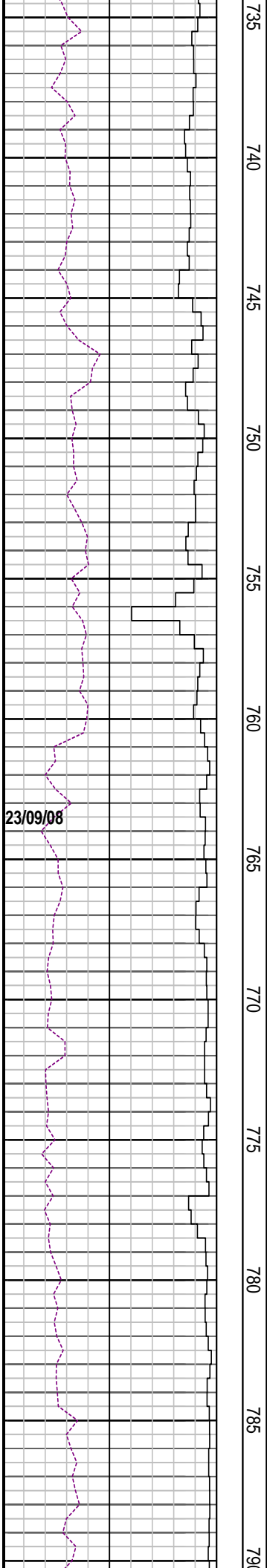


680
685
690
695
700
705
710
715
720
725
730

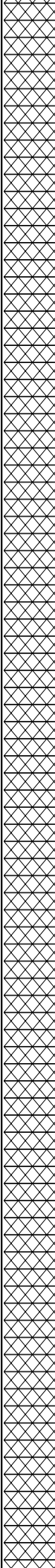
MD: 698.14m Azi: 181.9°
TVD: 698.11m Incl: 0.30°

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

795
800
805
810
815
820
825
830
835
840
845

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

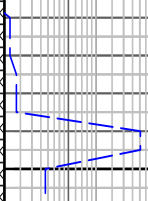
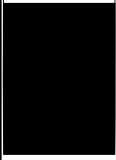
Set 340mm (13-3/8")
casing shoe at 841.0 m

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

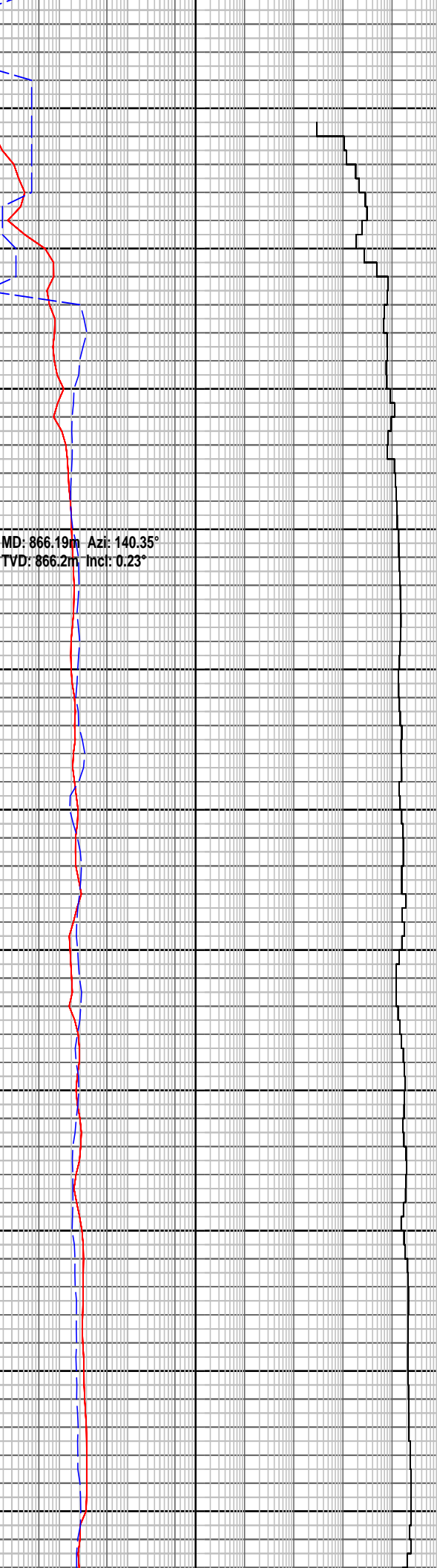


24-26/09/08

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 klbf
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°

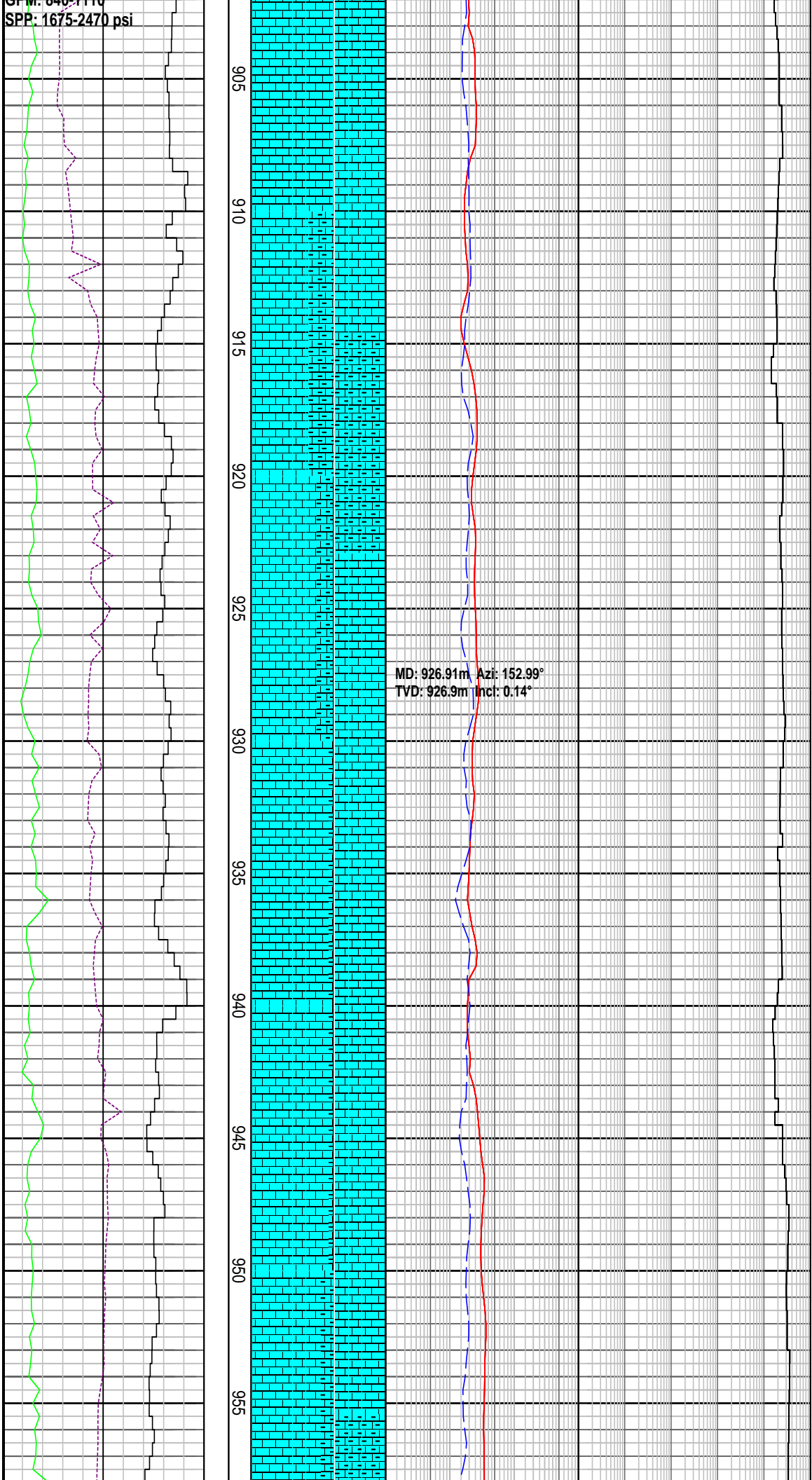
LOT @ 853.0m with 8.8 ppg
EMW: 15.06 ppg @ 900 psi

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



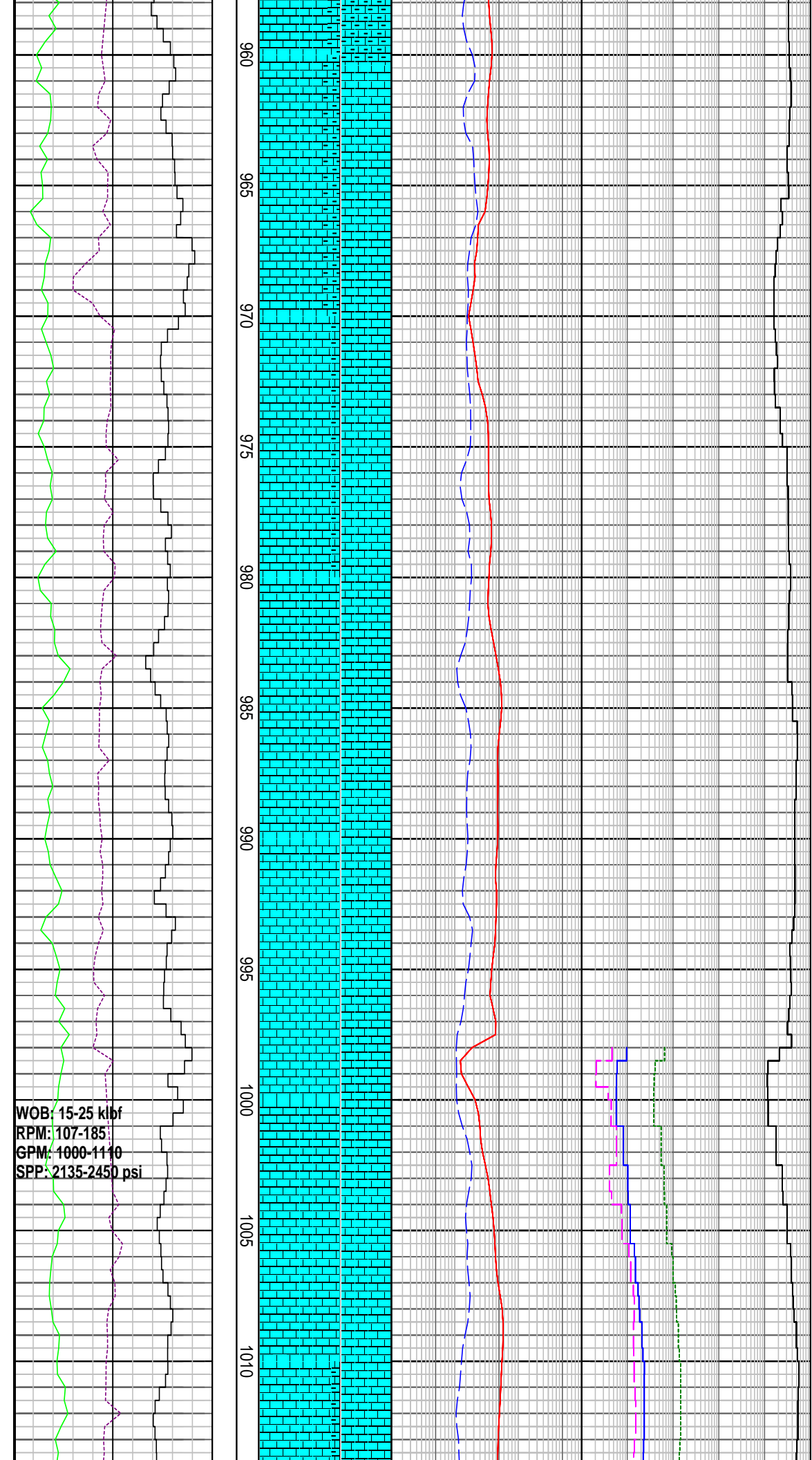
905
910
915
920
925
930
935
940
945
950
955

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 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



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

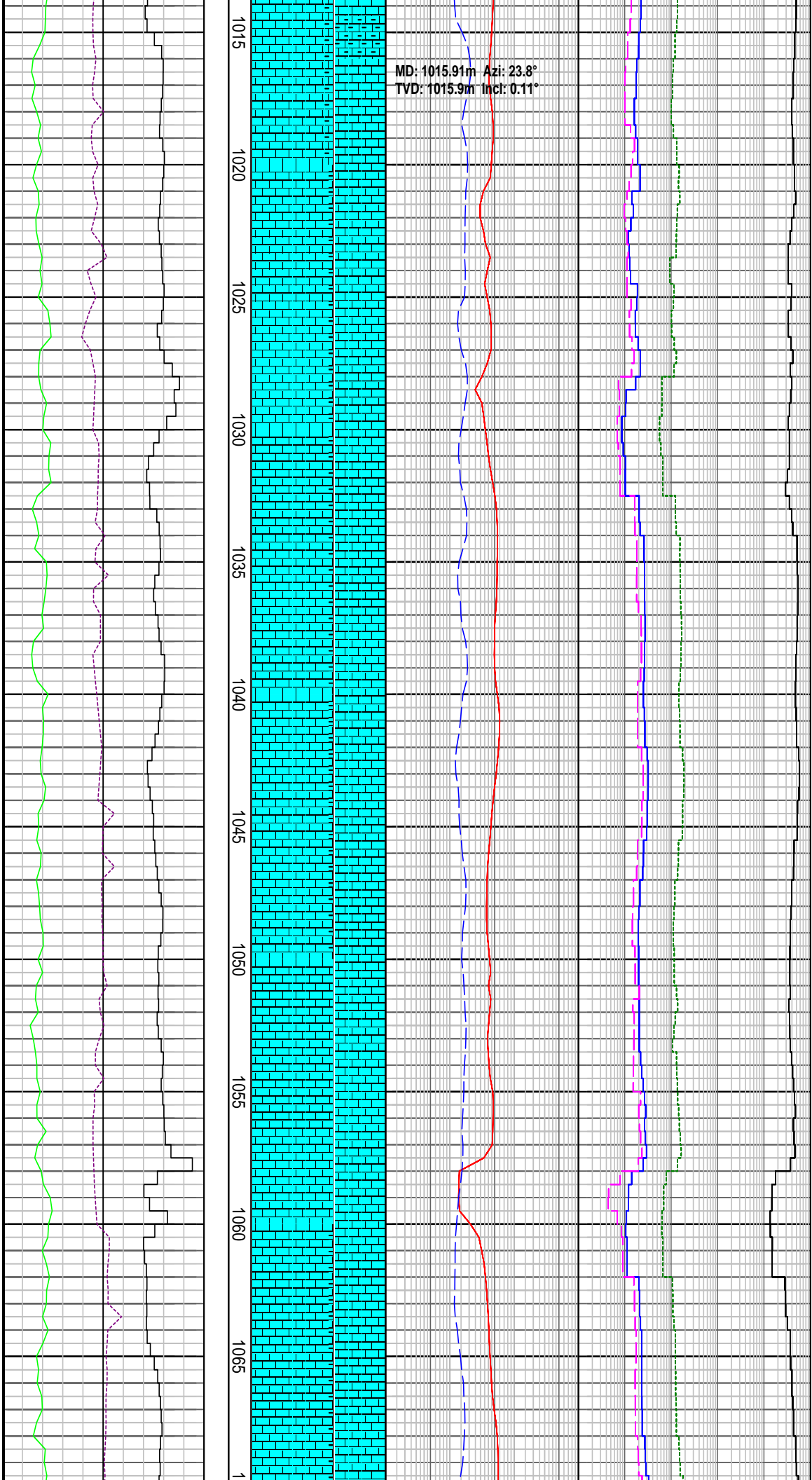
1015
1020
1025
1030
1035
1040
1045
1050
1055
1060
1065
1

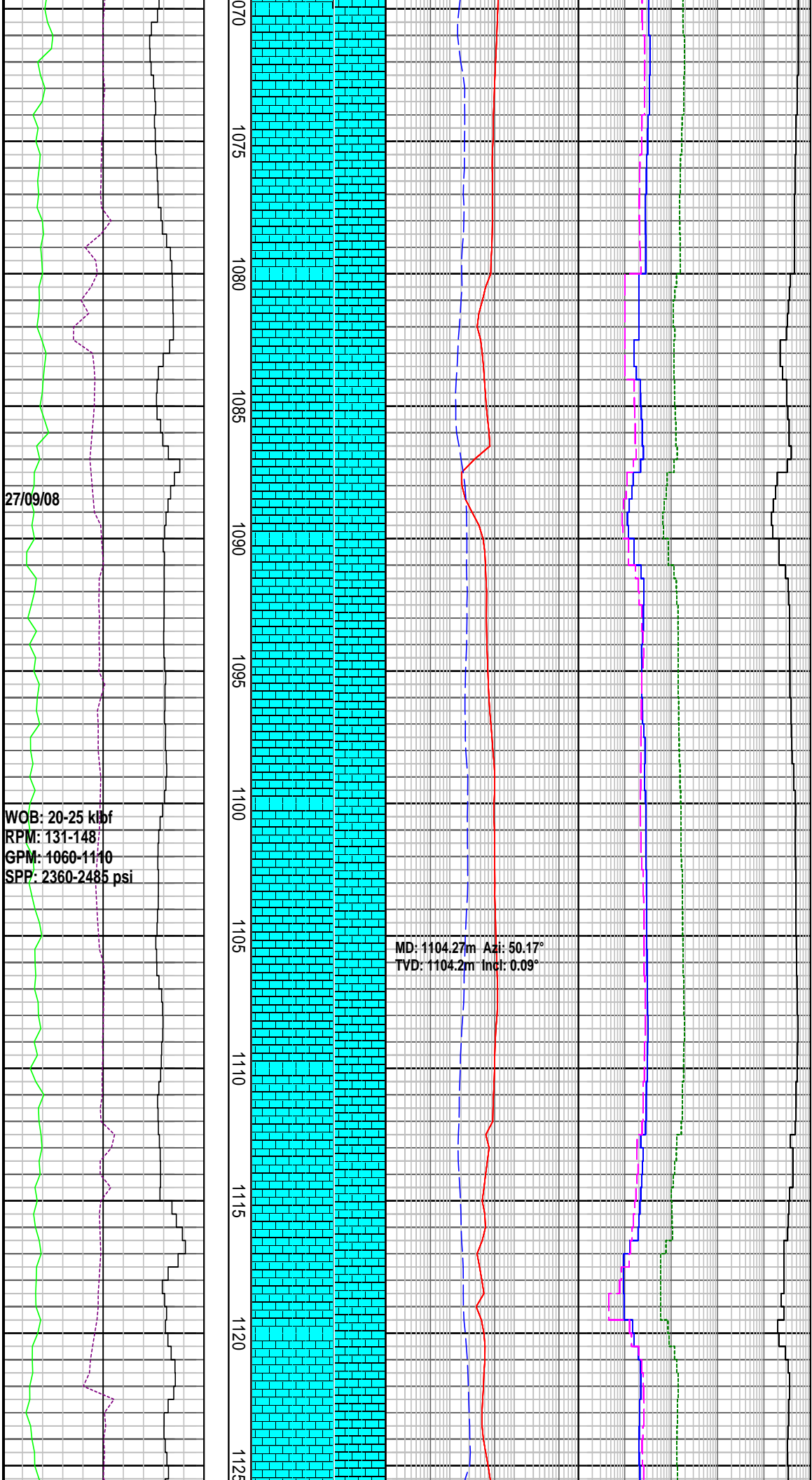
MD: 1015.91m Azi: 23.8°
TVD: 1015.9m Incl: 0.11°

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

CALCULITITE lt bl gy, mod sft, ang f
gr 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





27/09/08

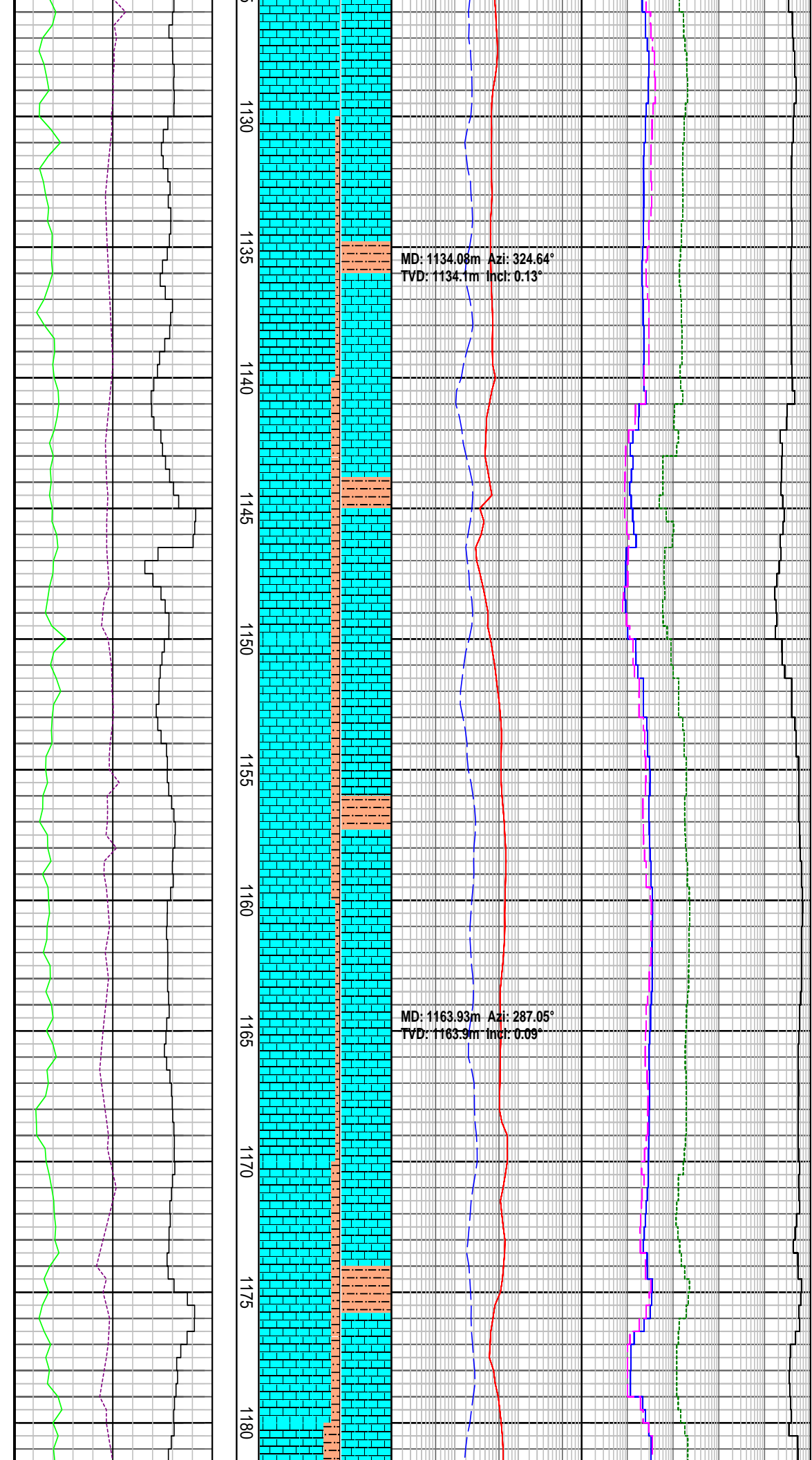
WOB: 20-25 klbf
 RPM: 131-148
 GPM: 1060-1110
 SPP: 2360-2485 psi

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

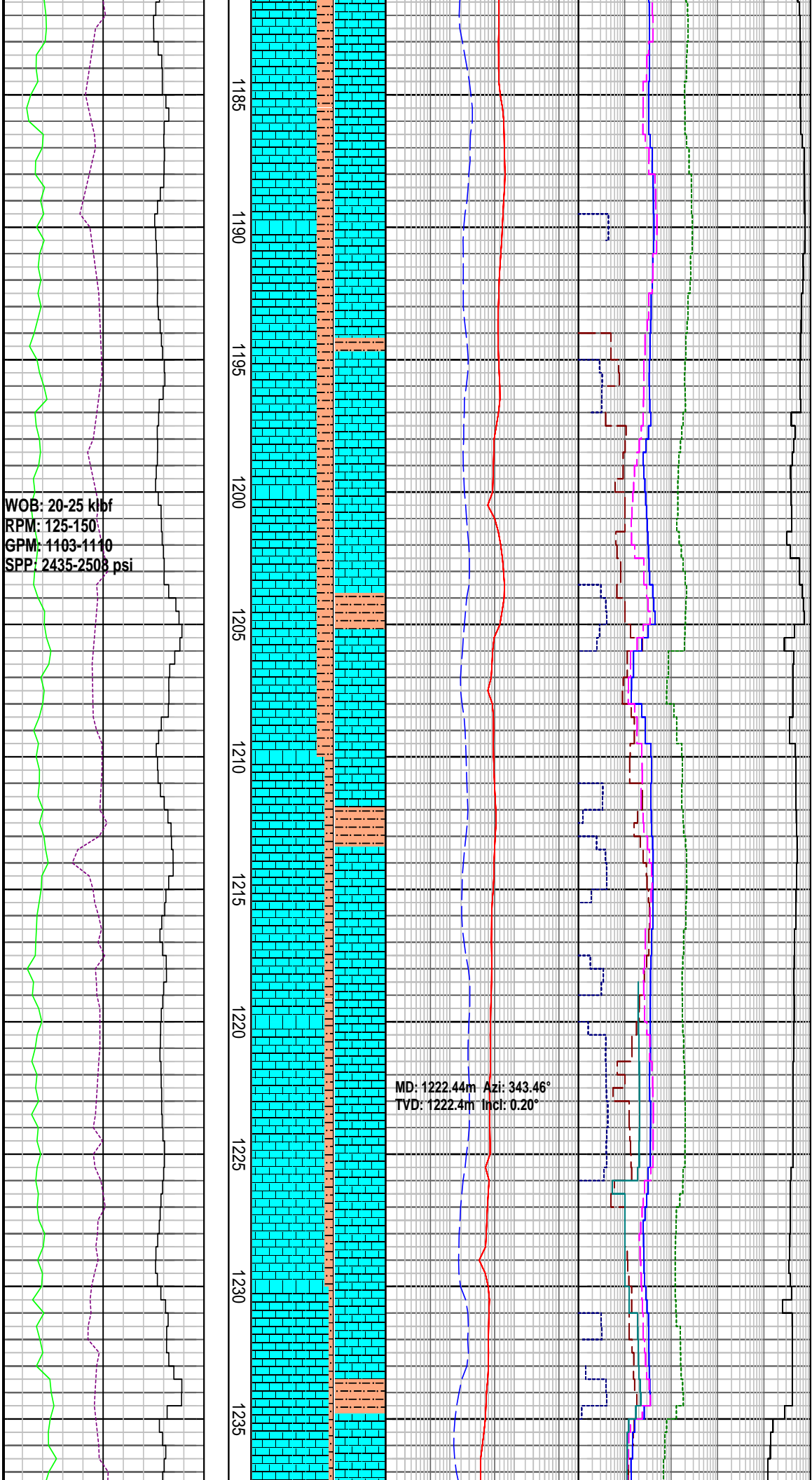


CALCULITITE lt bl gy-olv gy, sft-mod sft, mod hd, frm i/p, sbbkly-blky, silty md, wll srt, com calcs slt, lam, pr inf por, tr SLTST

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

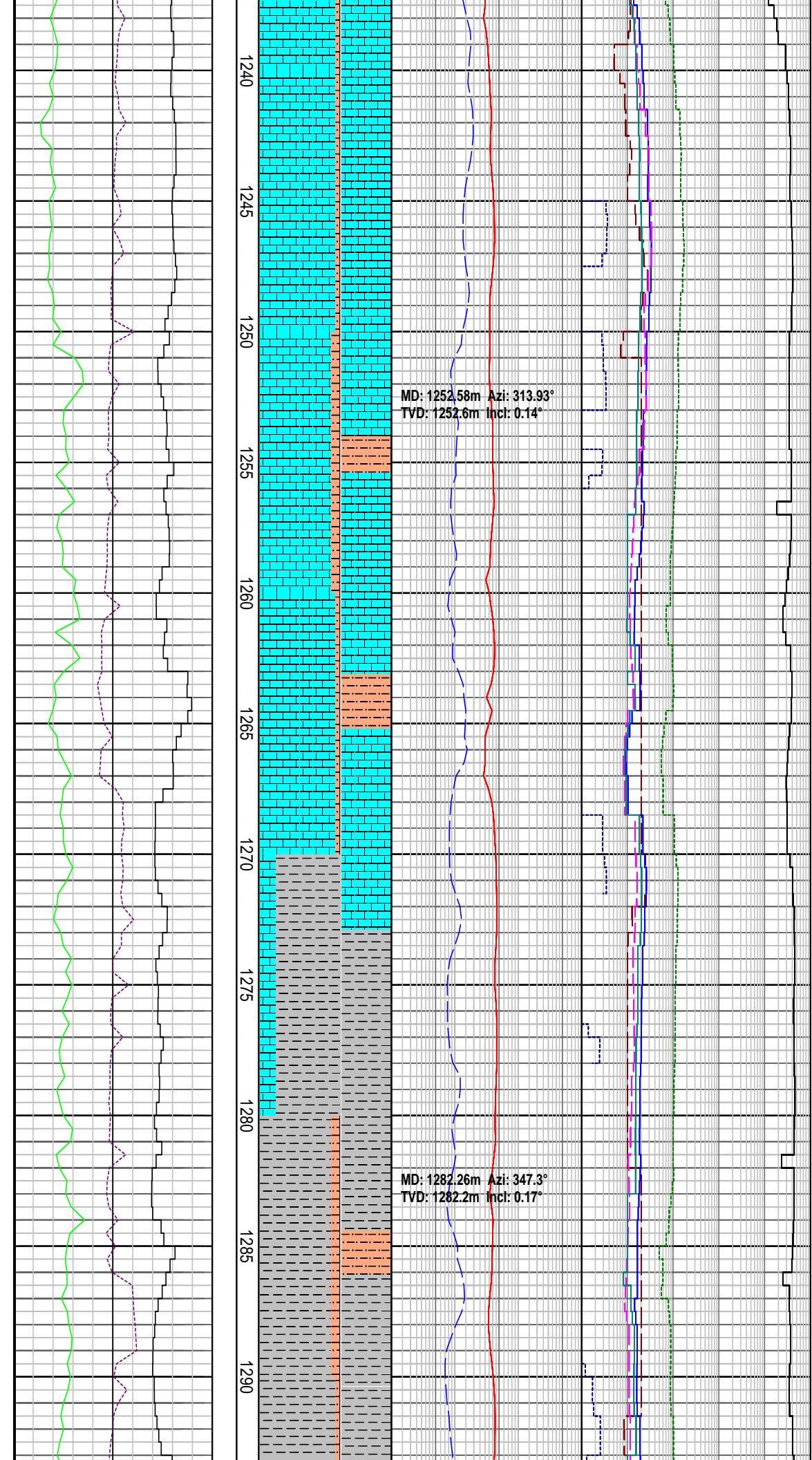
SILTSTONE: lt brn-dk brn, frm-mod hd, blky, mod calc



CALCULITITE lt bl gy-olv gy, sft-mod sft, mod hd, frm i/p, sbbkly-blky, silty md, wll srt, com calcs slt, 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, sbbky-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, sbbky-blky, sli slty, mod-hi calc, tr mic flks

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

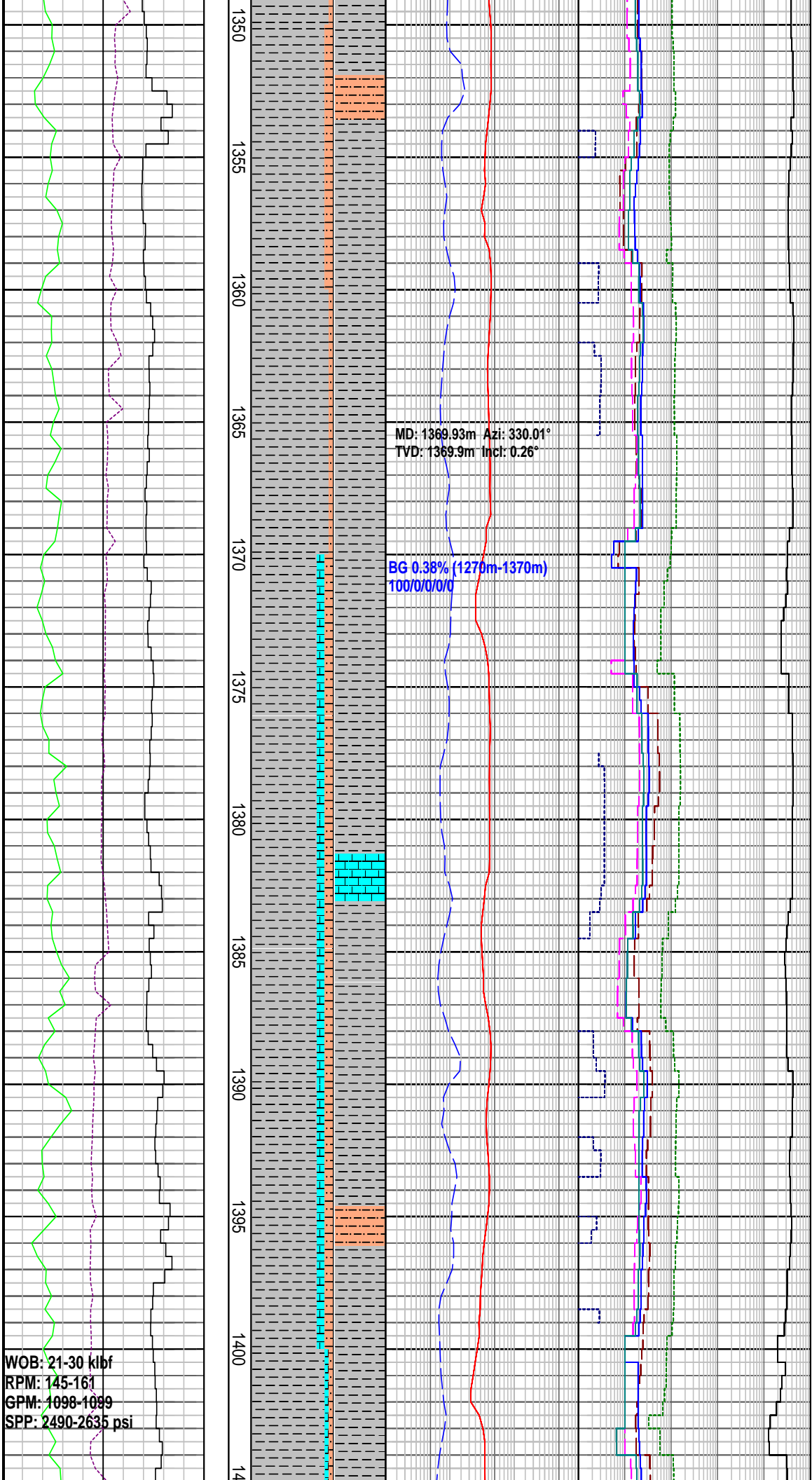
1295
1300
1305
1310
1315
1320
1325
1330
1335
1340
1345

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

SILTSTONE: m gy-grnsh gy, frm-hd, blk, 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



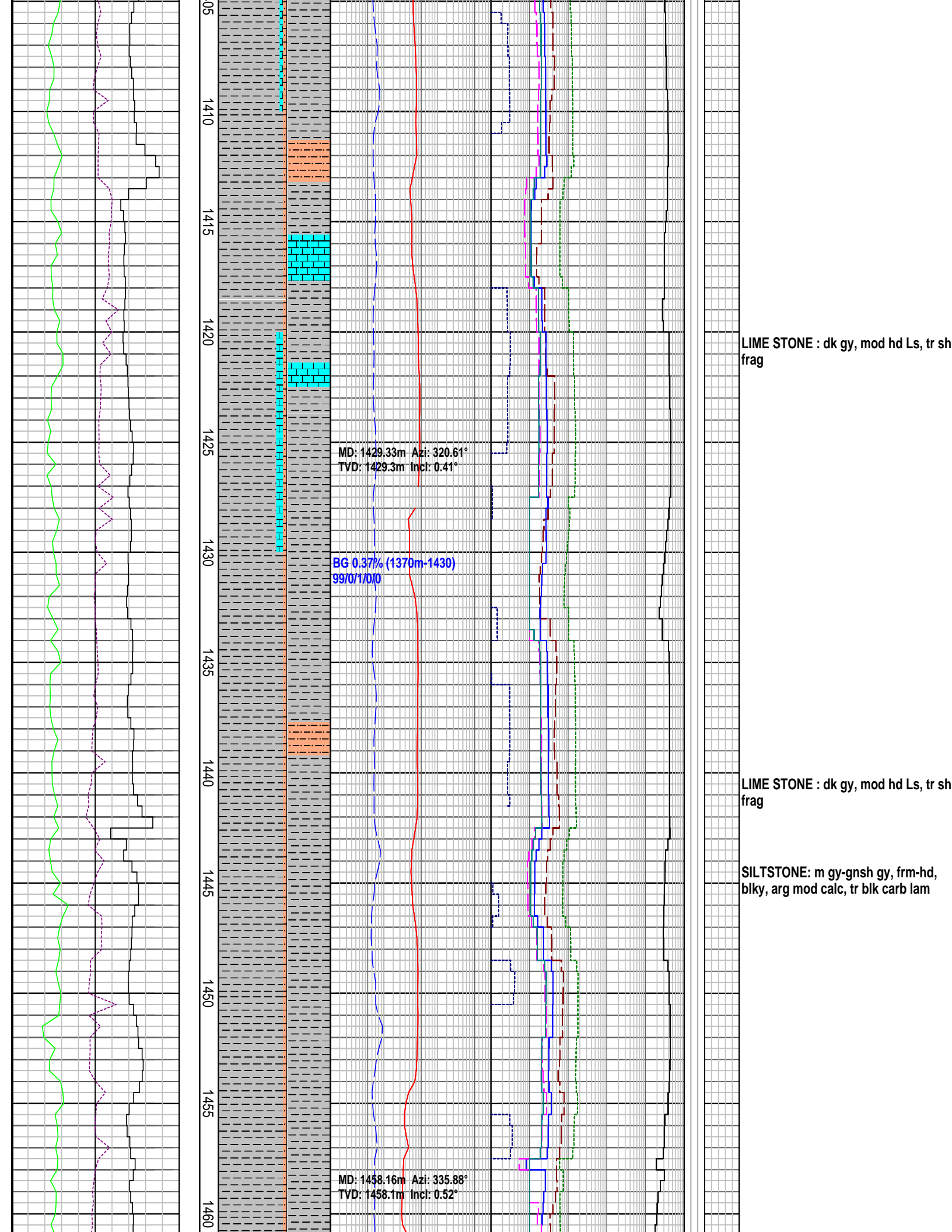
SILTSTONE: m gy-gn gy, frm-hd, blk, arg mod calc

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

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



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

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

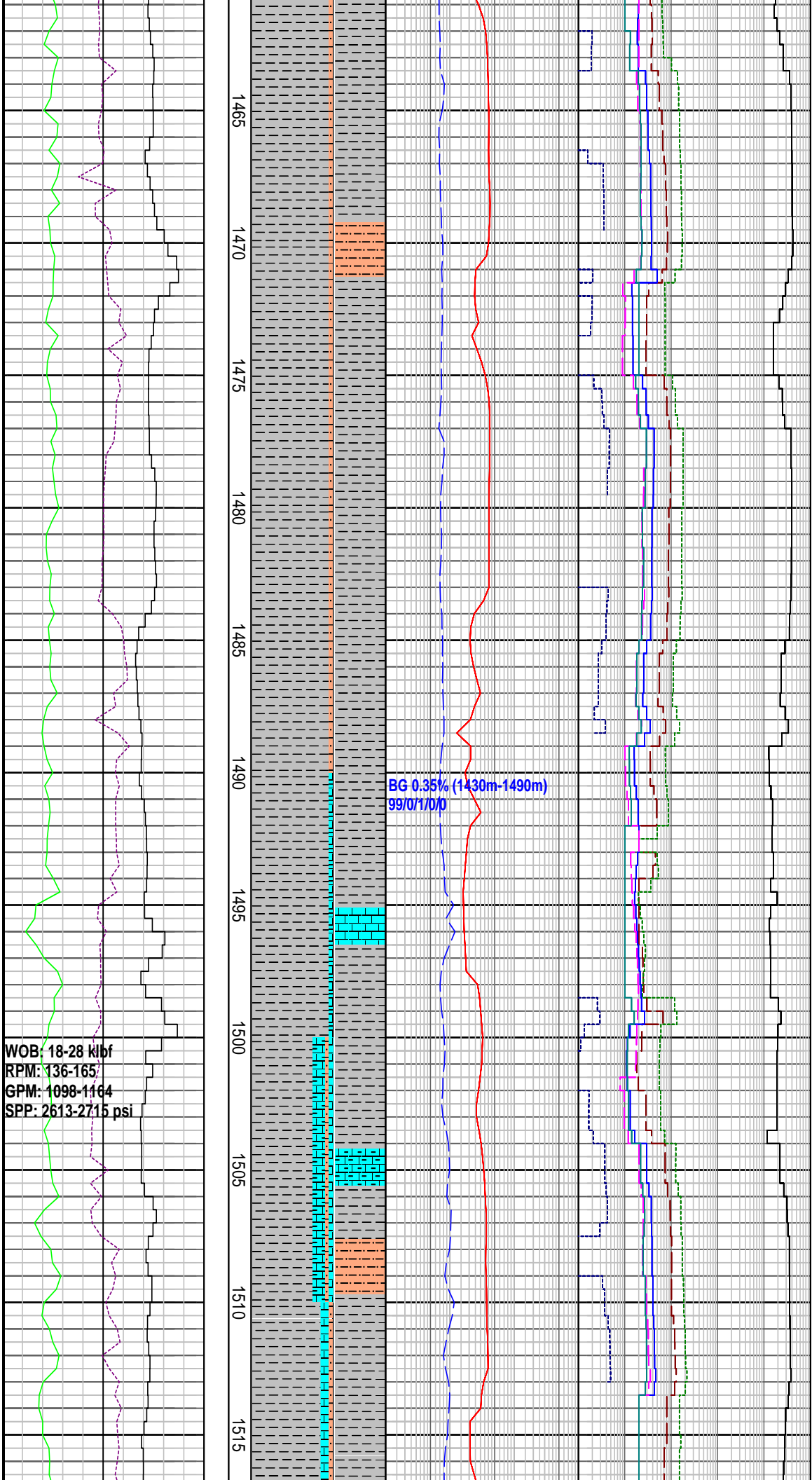
BG 0.37% (1370m-1430)
99/0/1/0/0

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,
blky, arg mod calc, tr blk carb lam



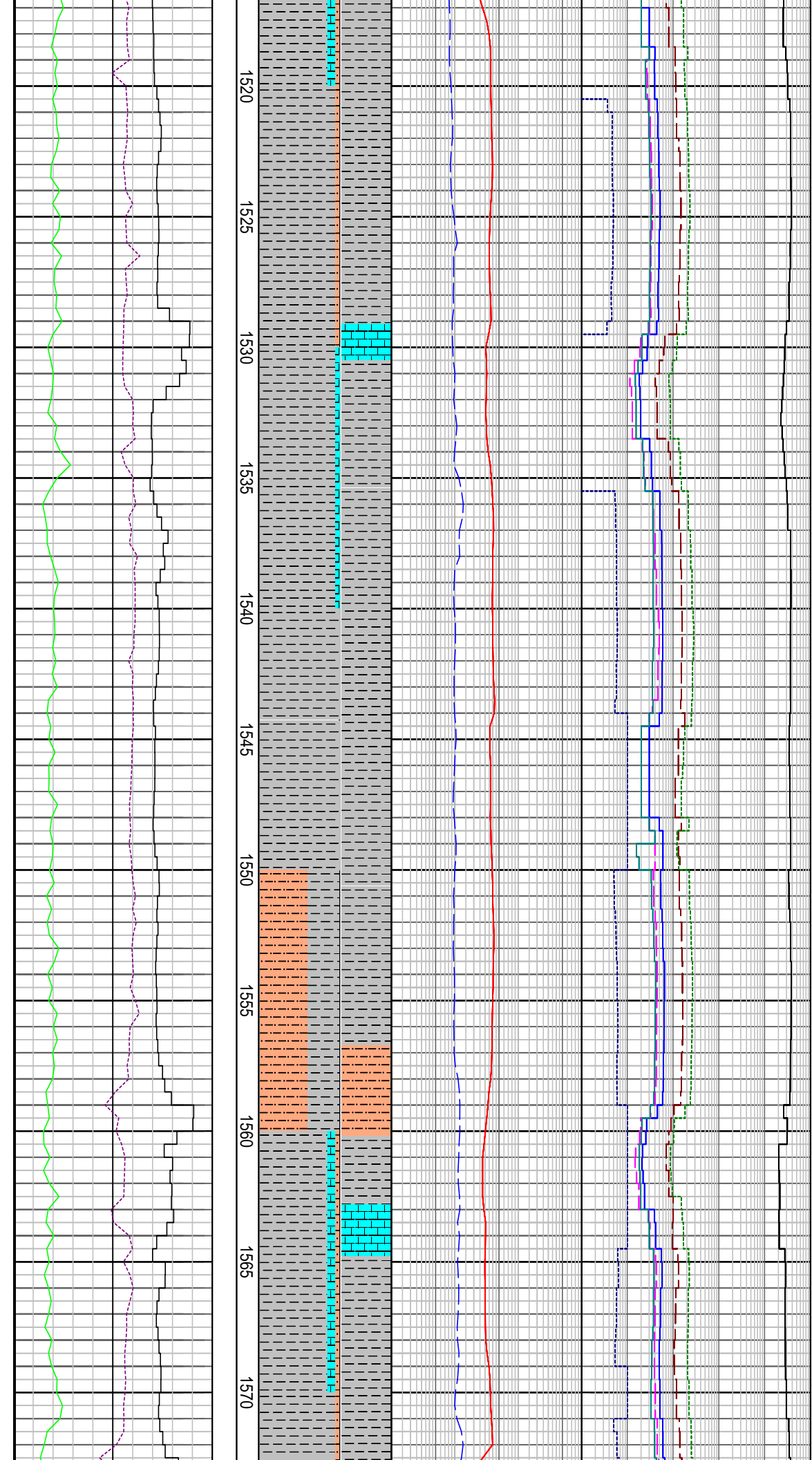
CALCAREOUS CLAYSTONE: dk gy-dk olv gy, sft-mod frm, sbblky-blky, sli slty, mod-hi calc, tr mic flks, grdg to Clcit

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

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

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



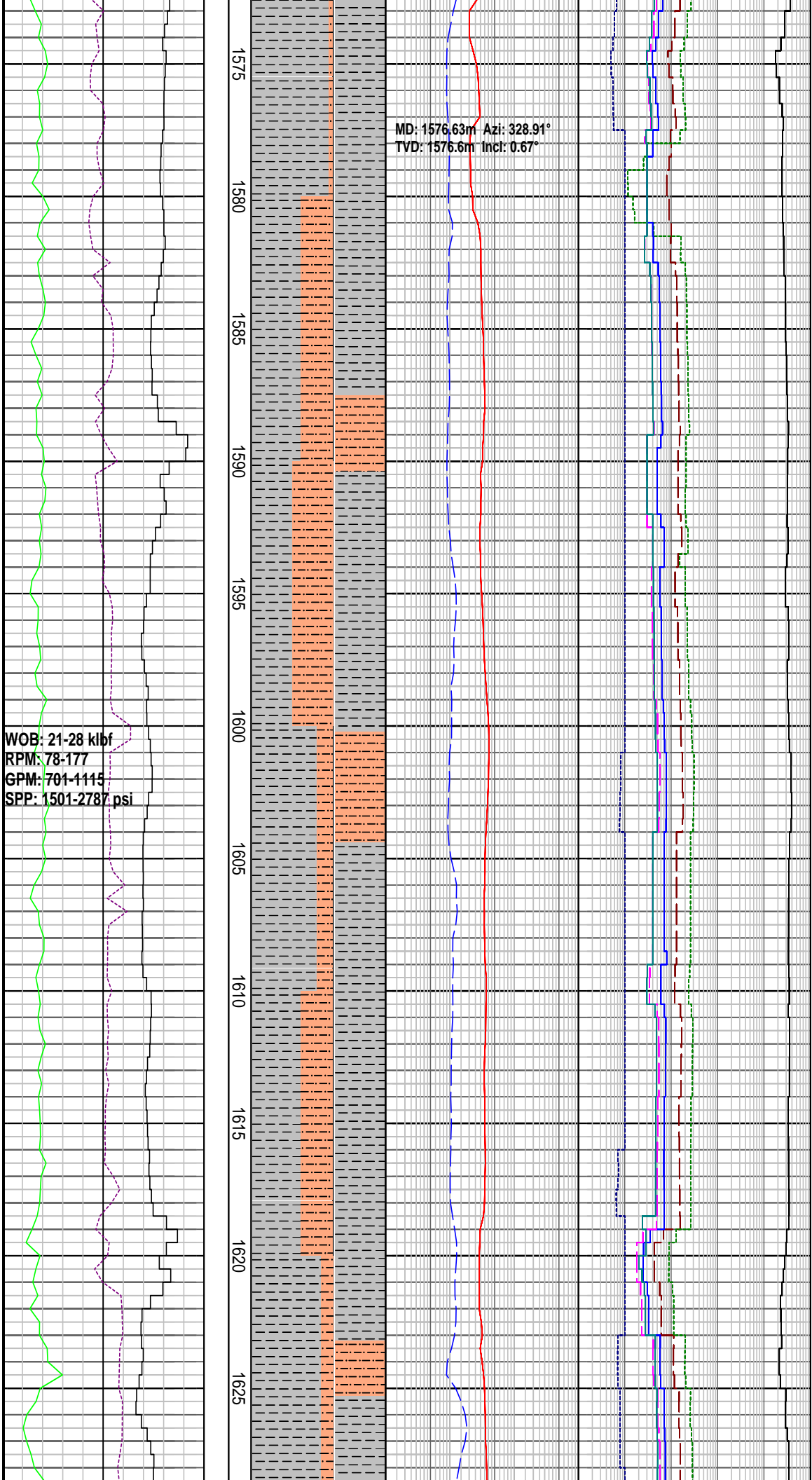
1520
1525
1530
1535
1540
1545
1550
1555
1560
1565
1570

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, grdg to ClcIt

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

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



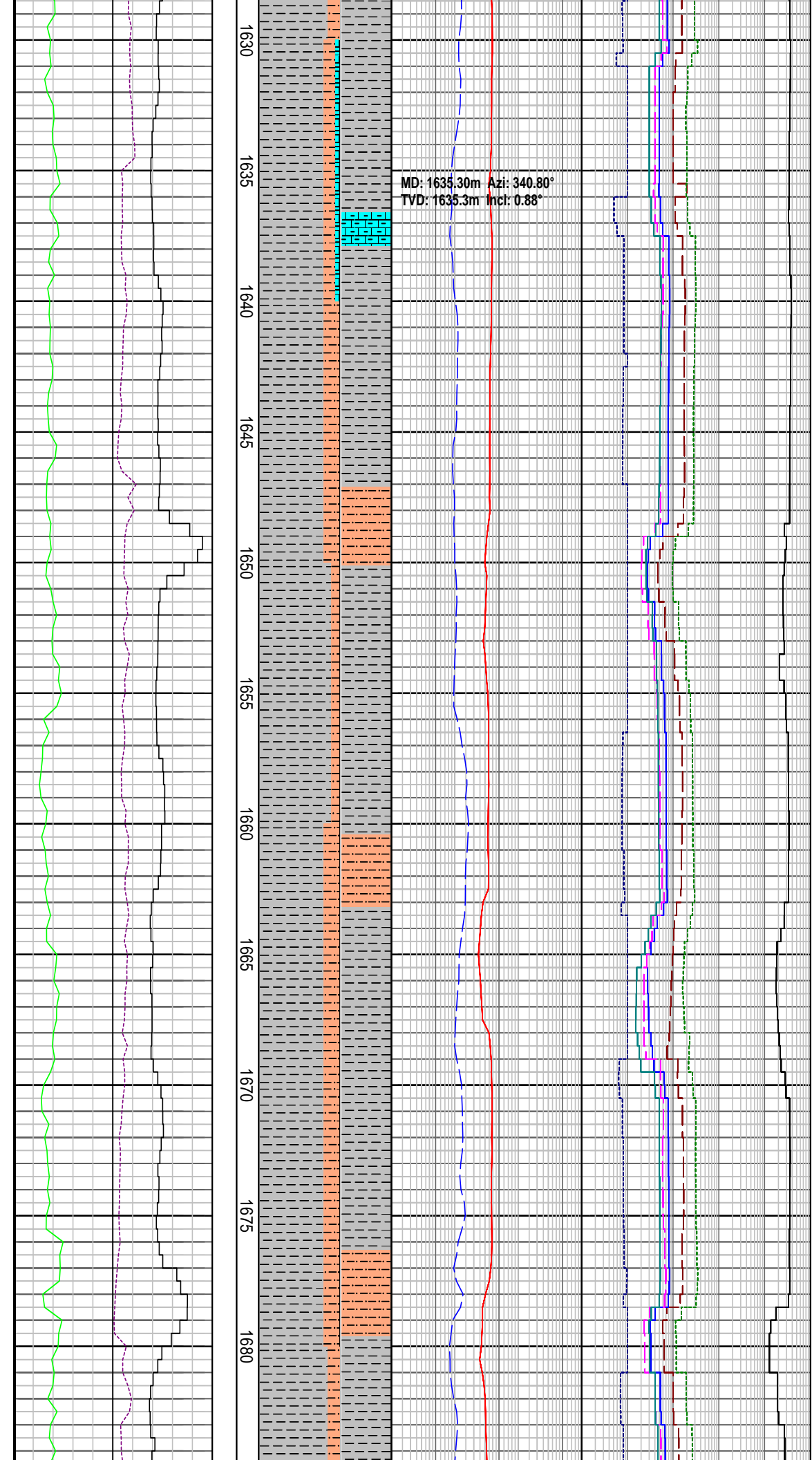
MD: 1576.63m Azi: 328.91°
TVD: 1576.6m Incl: 0.67°

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

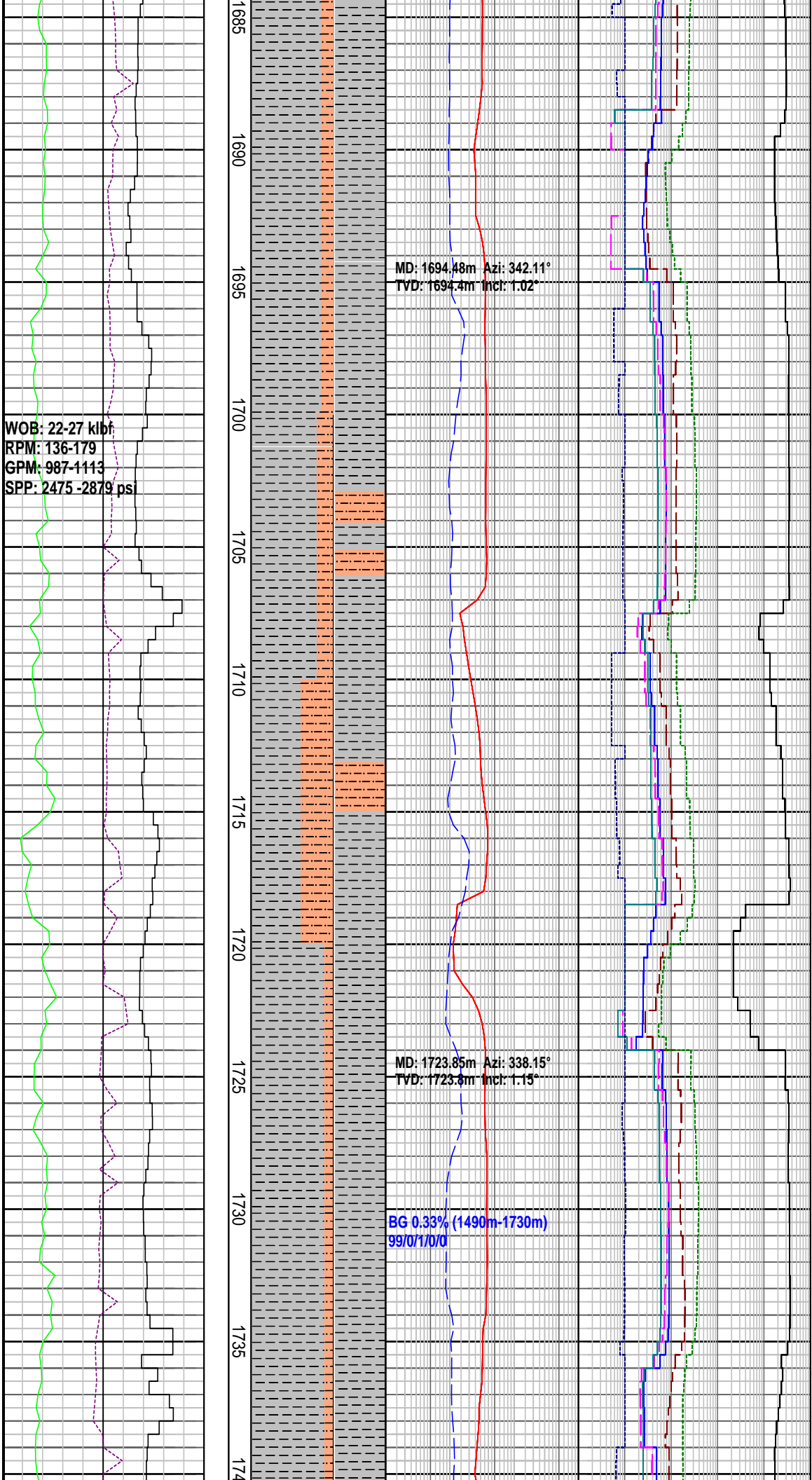
SILTSTONE: m gy-gnsh gy, frm-hd, blky, arg mod calc, tr blk carb lam



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

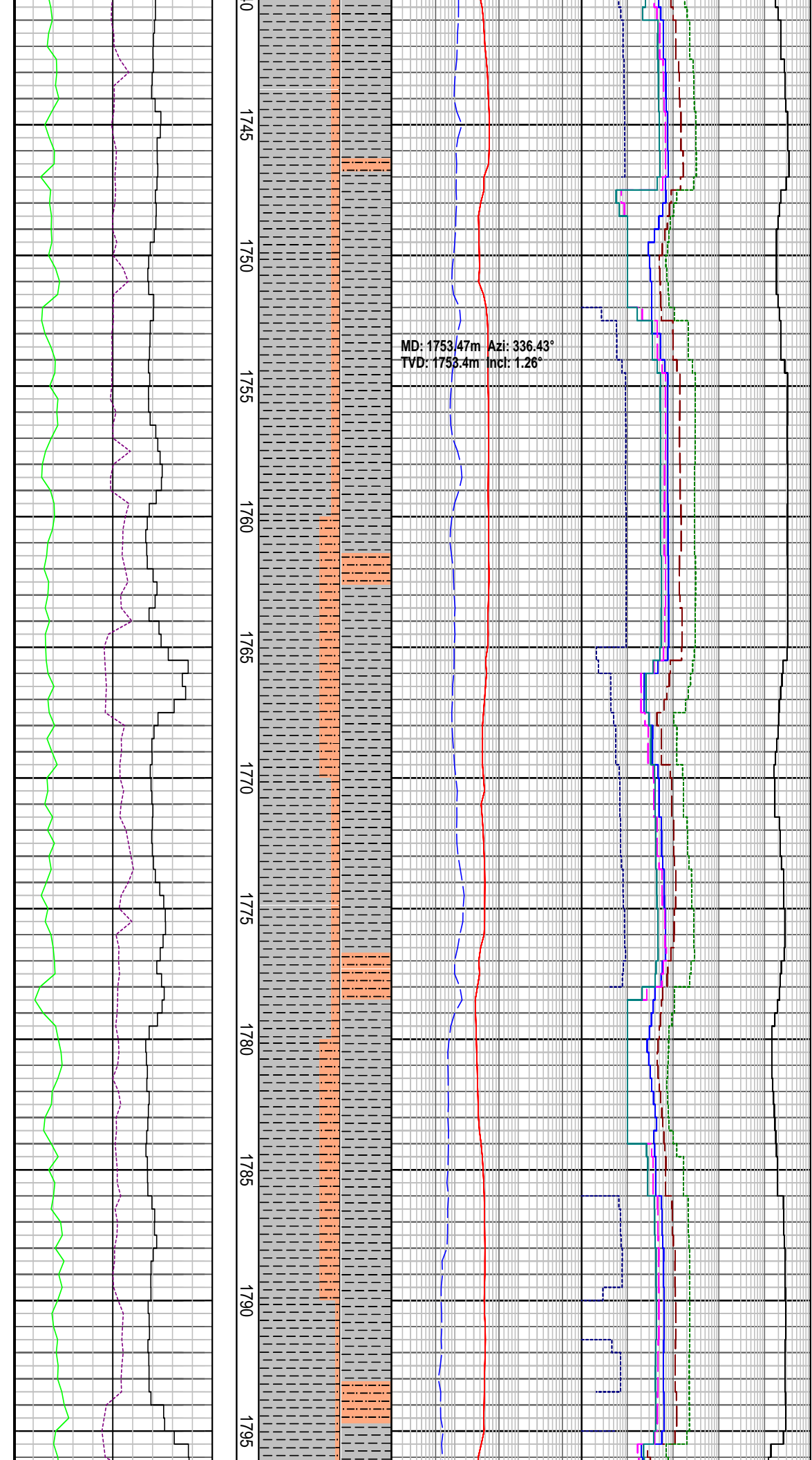
SILTSTONE: m gy-gnsh gy, frm-hd,
blky, arg mod calc, tr blk carb lam

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, blk, arg mod calc, tr blk carb lam

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



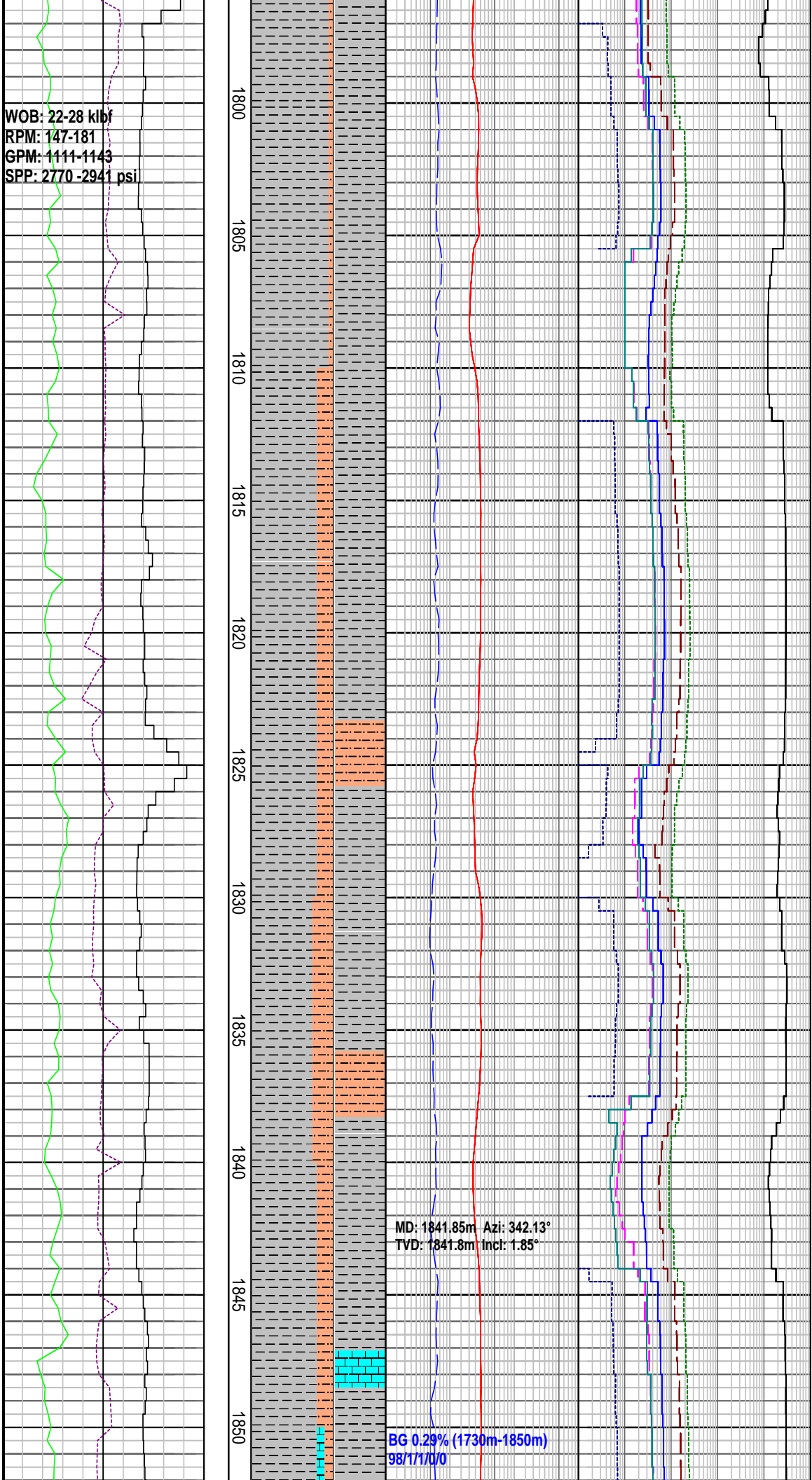
SILTSTONE: m gy-gnsh gy, frm-hd, blky, arg mod calc, tr blk carb lam, tr pyr

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 klbf
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



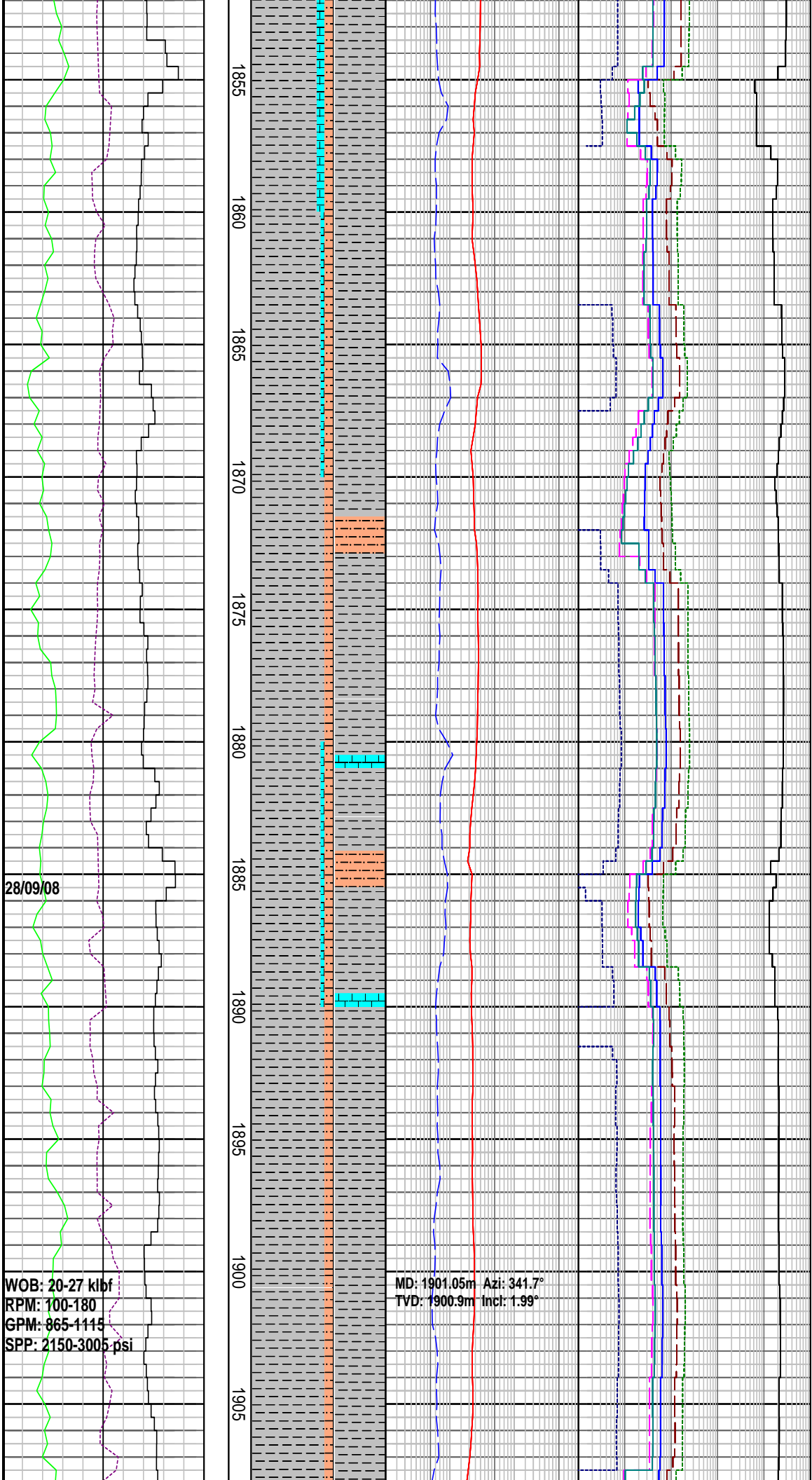
1800
1805
1810
1815
1820
1825
1830
1835
1840
1845
1850

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



28/09/08

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

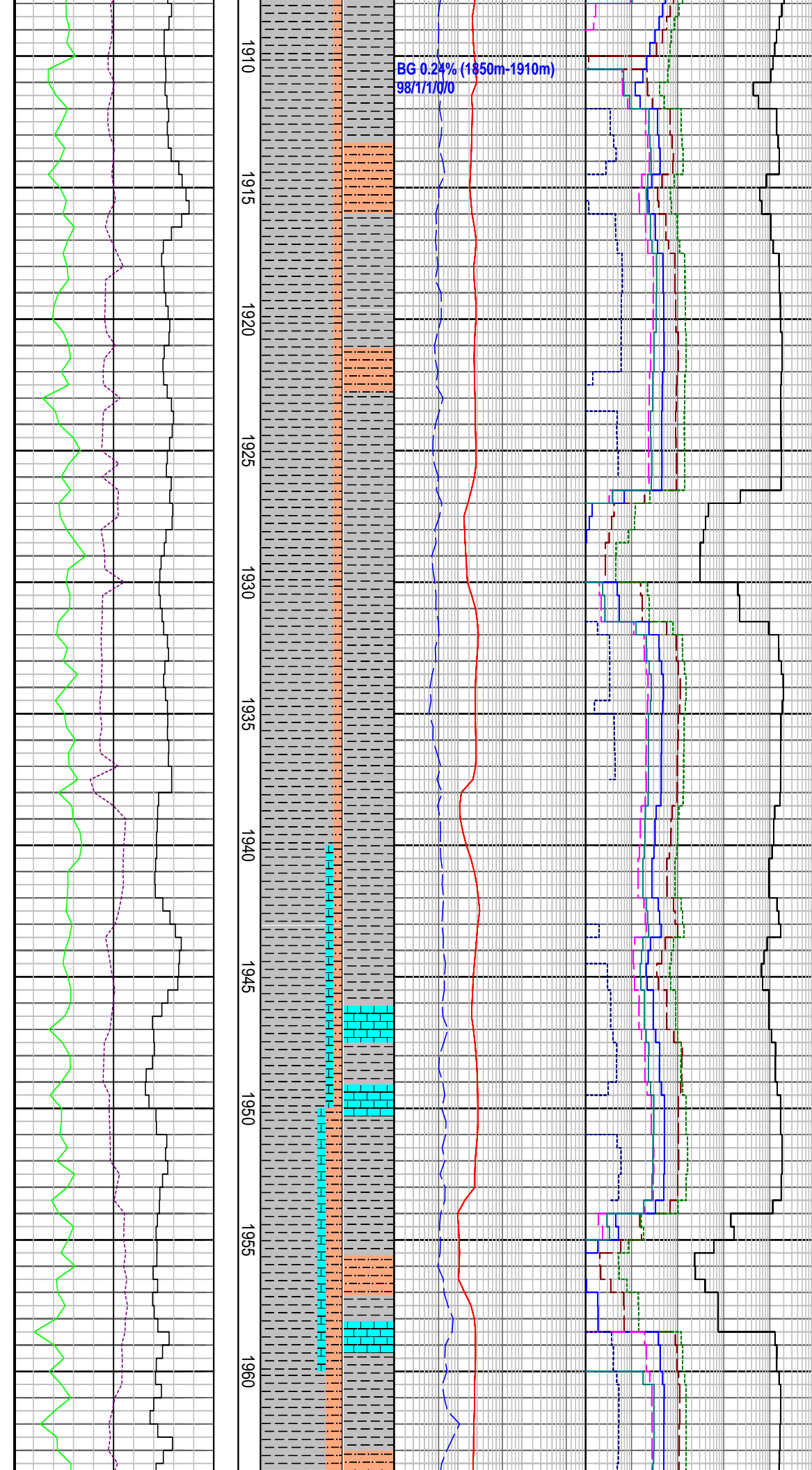
MD: 1901.05m Azi: 341.7°
 TVD: 1900.9m Incl: 1.99°

CALCARENITE: wh pl gy-gnsh gy, sbbiky, 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, sbbiky-blky, sli sity, tr carb flks, mod-hi calc, com grdg to clct, tr foam

CALCARENITE: wh pl gy-gnsh gy, sbbiky, 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, sbbiky-blky, sli sity, tr mic flks, tr carb flks, mod-hi calc, grdg to clct, tr foam

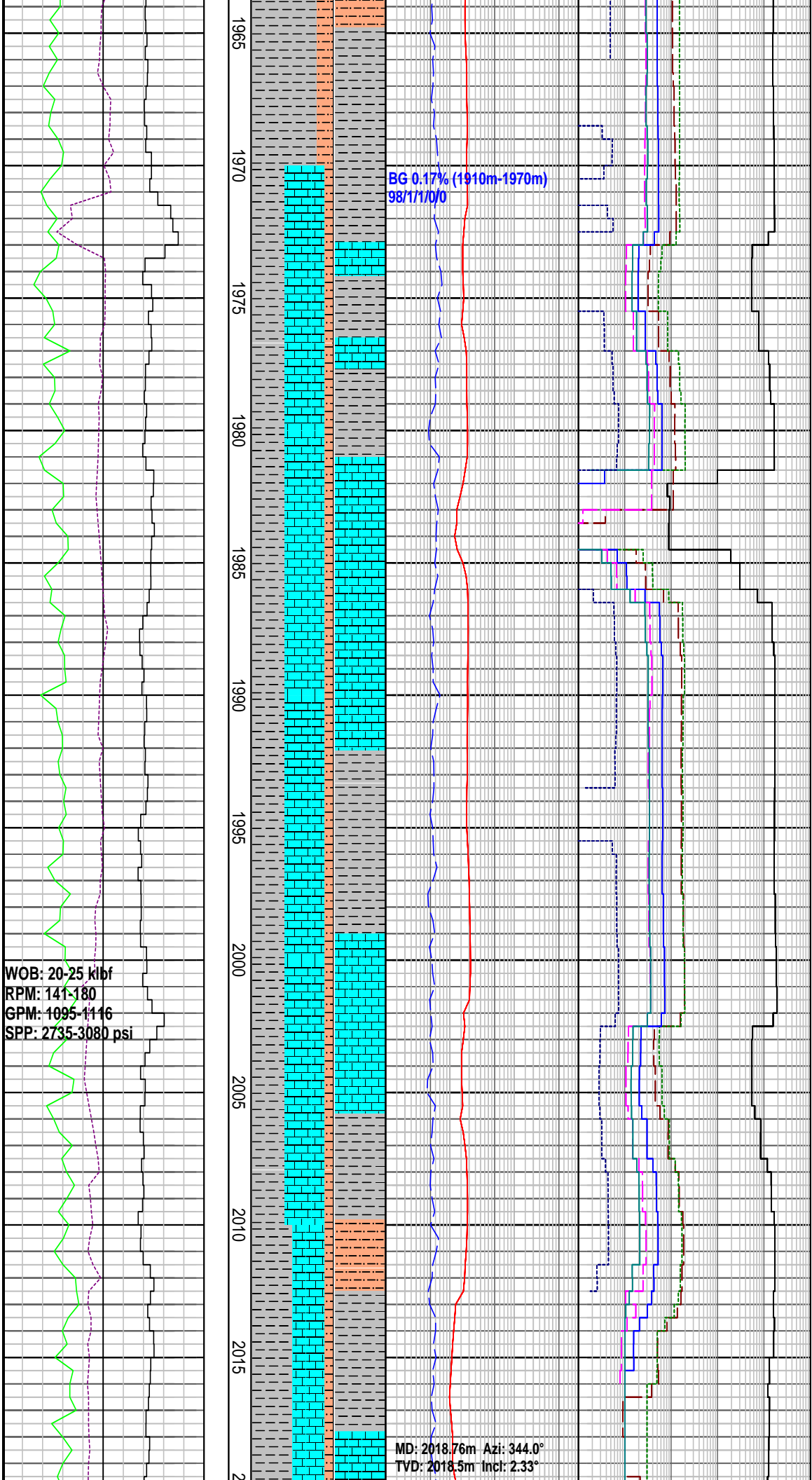


calc, gray to black, tr foam

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

CALCARENITE: lt olv-gy, gnsh gy, sbblk 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



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

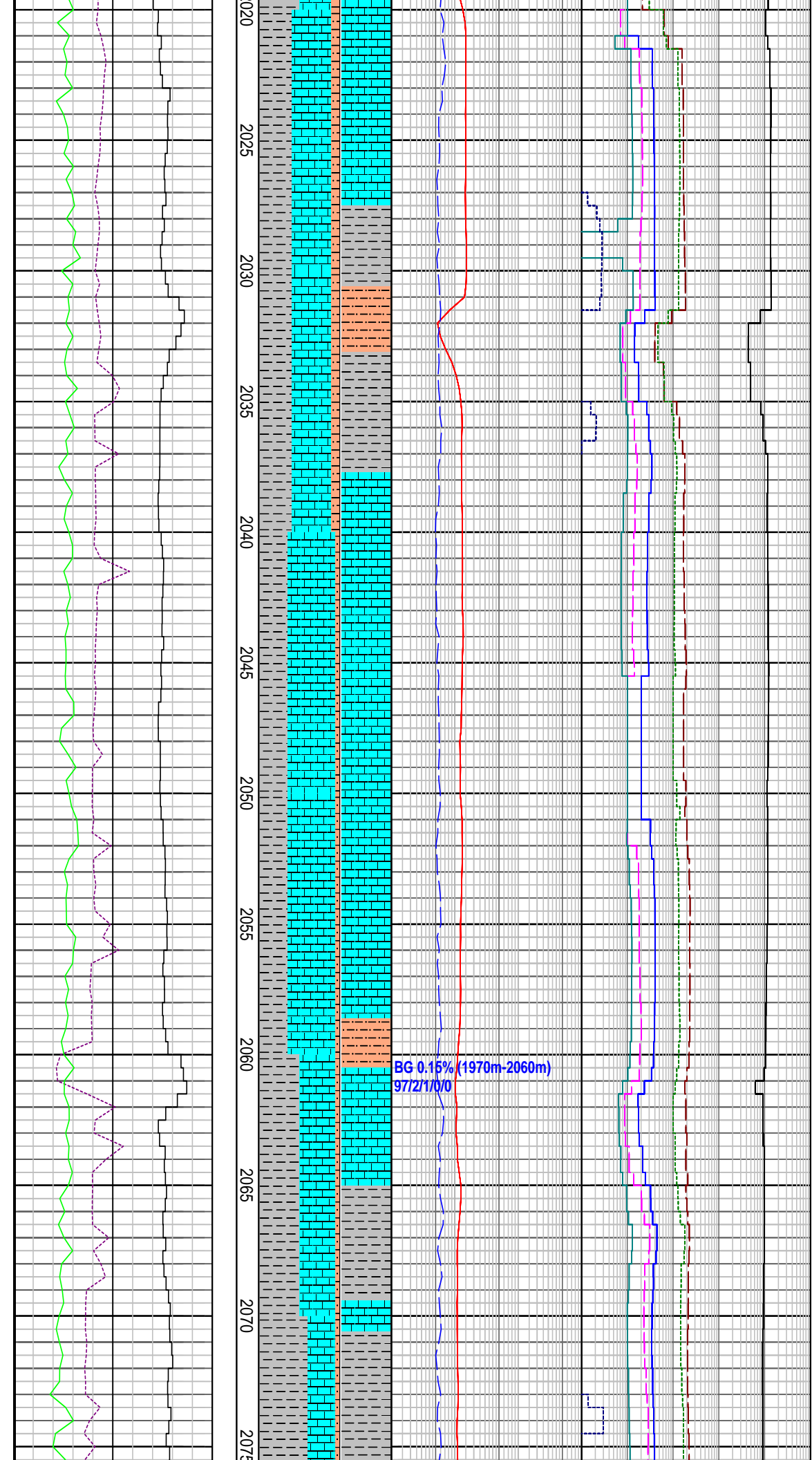
WOB: 20-25 kbf
RPM: 141-180
GPM: 1095-1116
SPP: 2735-3080 psi

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

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

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

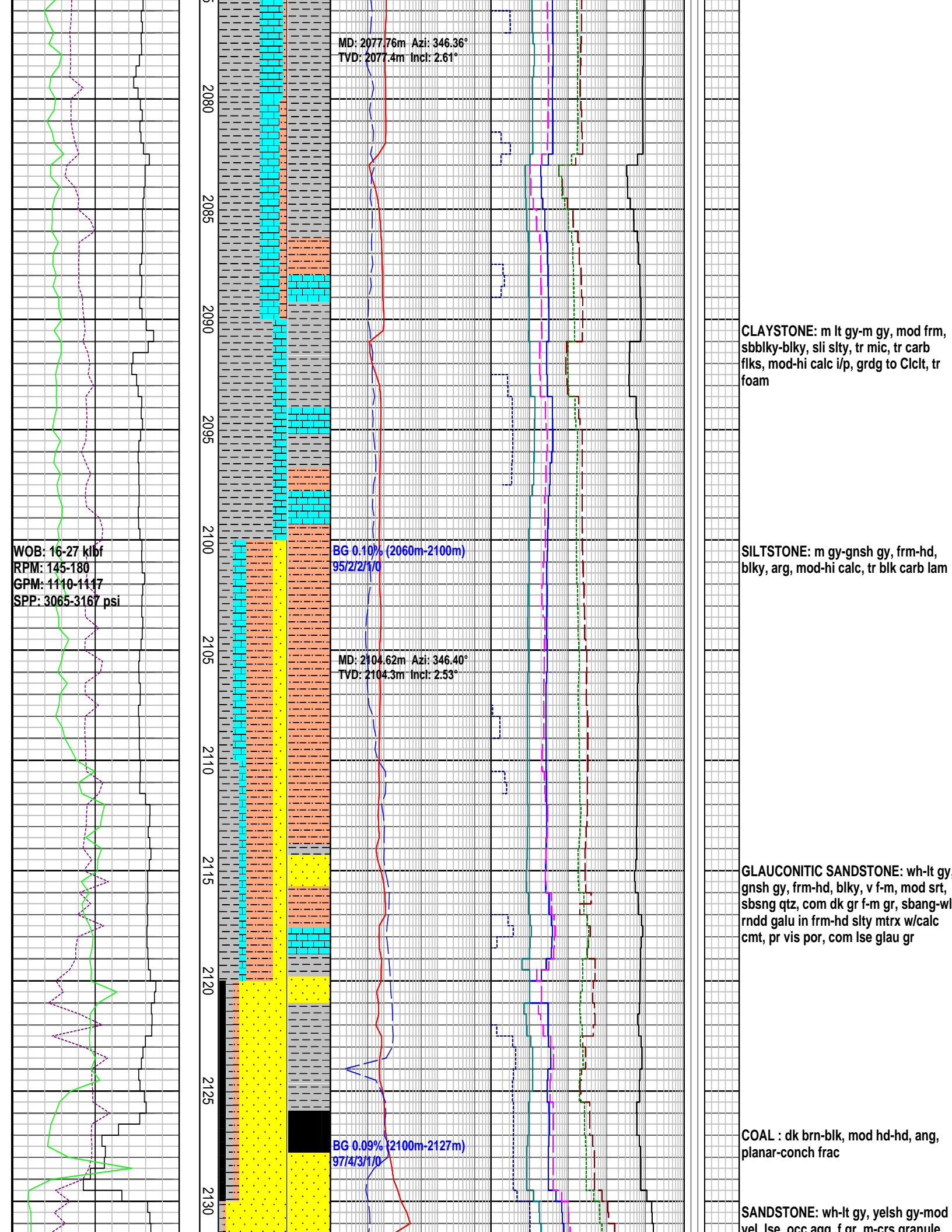
SILTSTONE: m gy-gnsh gy, sft i/p, frm-hd, blk, arg mod-hi calc, tr blk carb lam

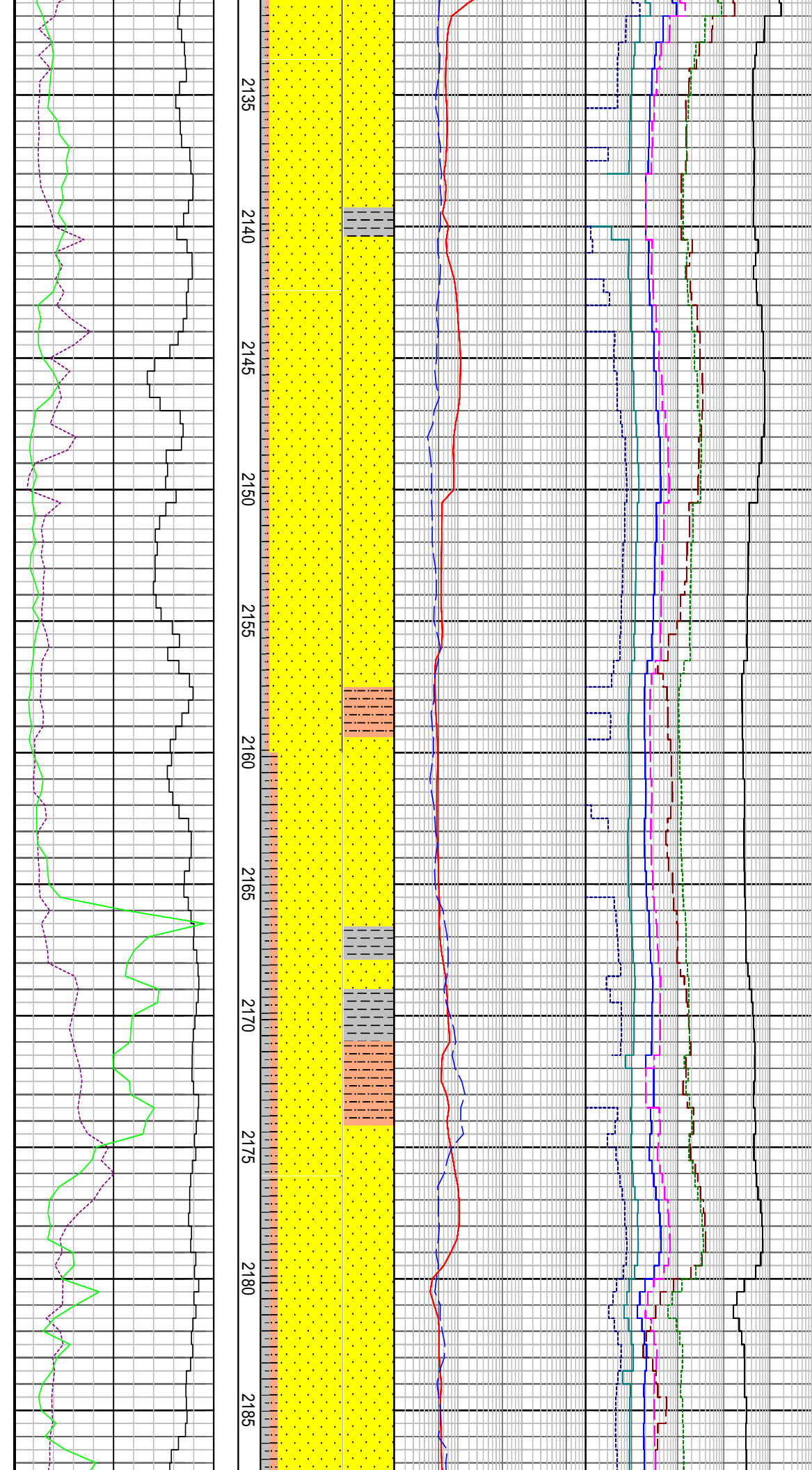
CLAYSTONE : m lt gy-m gy, mod frm, sbbkly-blky, sli slt, tr mic flks, tr carb flks, mod-hi calc, tr blk carb lam

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





yel, lsc, occ agg, f gr, m-crs granule
 mod-wl srt, sbrndd-rnnd, sbsph,
 trnl-fros qtz, broken i/p, tr lse
 f-granule pyr, tr pyr qtz

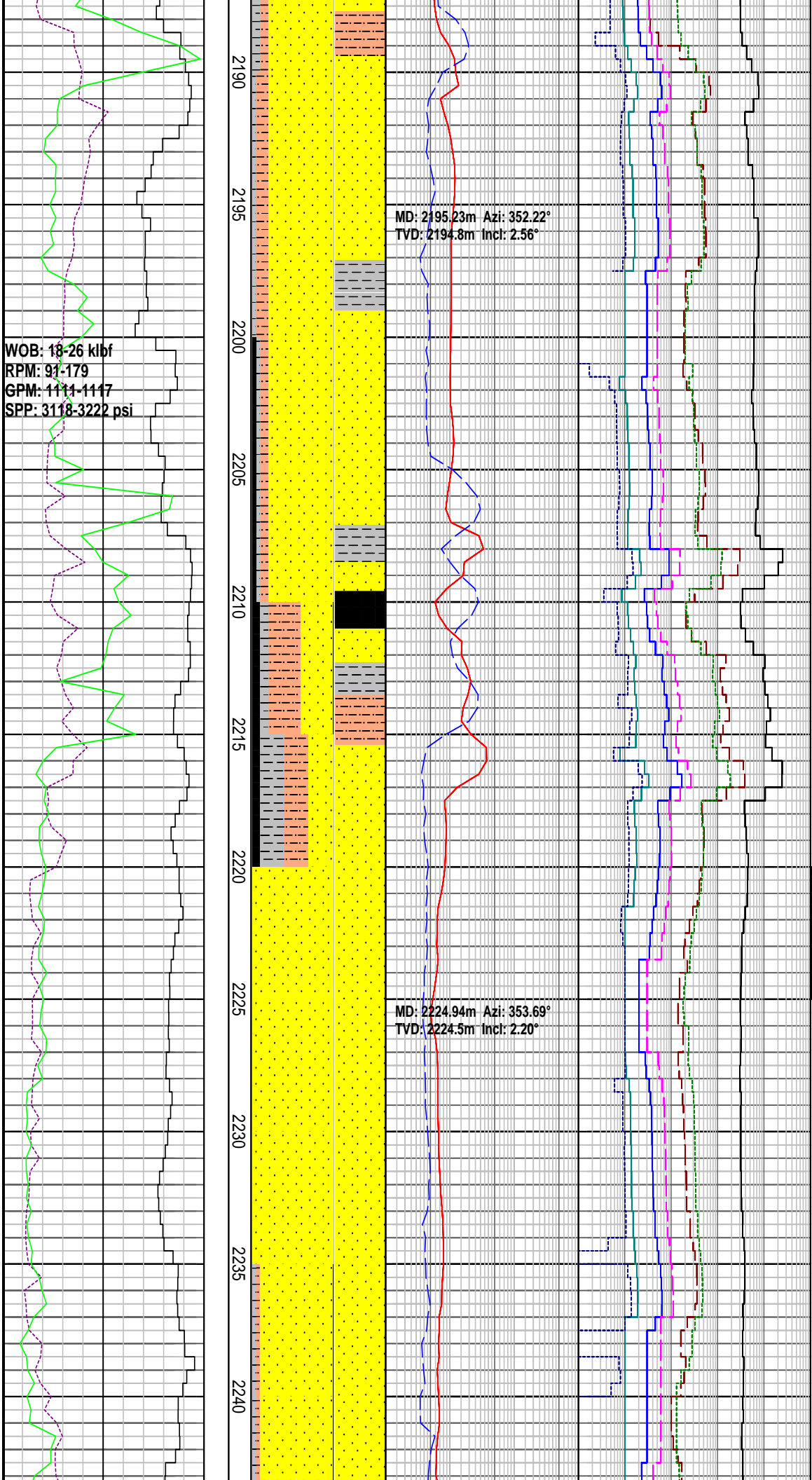
CLAYSTONE: lt-m gy, mod frm-hd,
 sbbky-blky, tr carb flks, tr mic flks,
 mod calc

SANDSTONE: wh-lt gy, lse, occ agg, f
 gr, m-crs granule, mod-wl srt,
 sbrndd-rnnd, sbsph, trnl-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-rnnd, sbsph,
 trnl-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

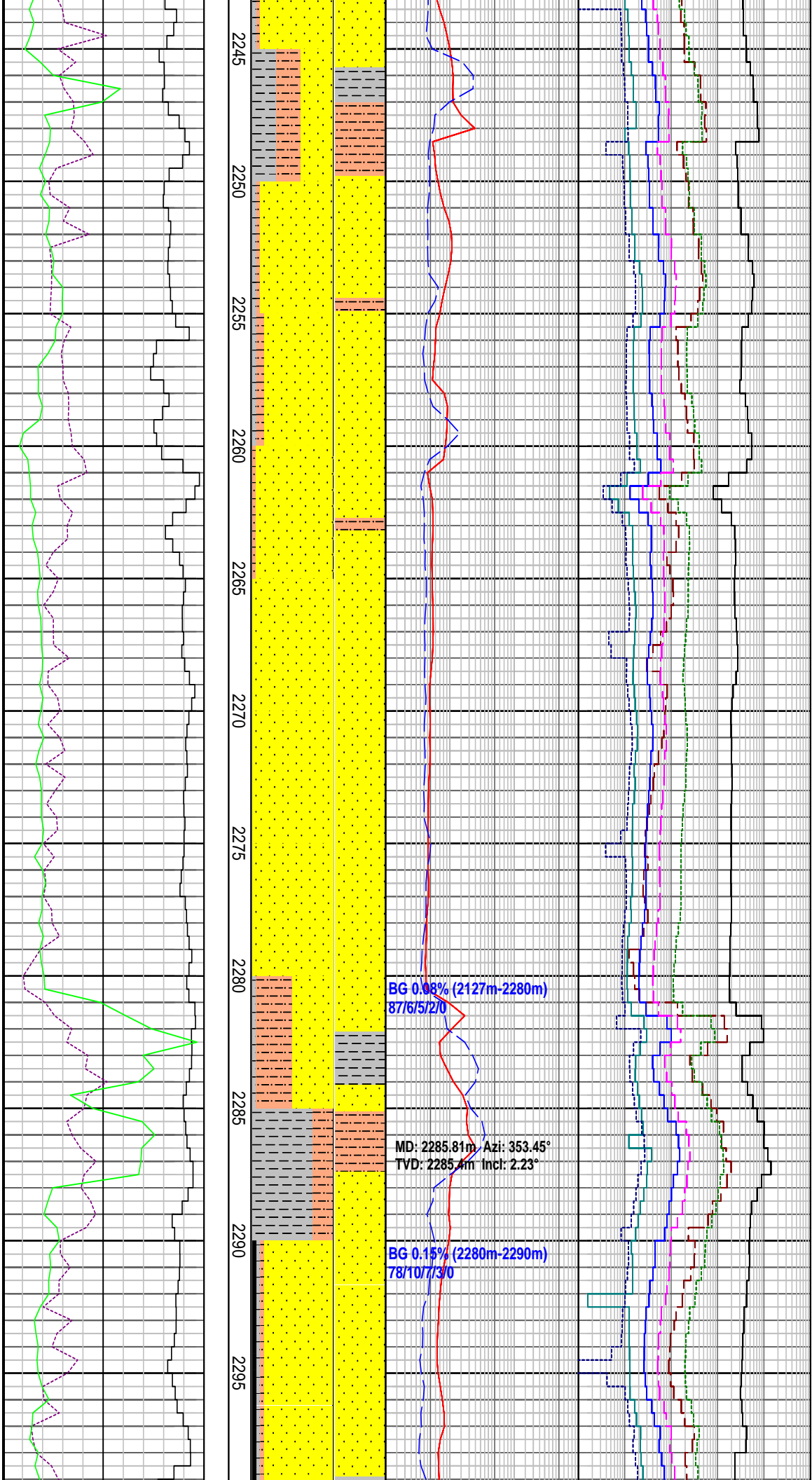
COAL : dk brn-blk, mod hd-hd, ang, planar-conch frac

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



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, 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-granule, mod-wl srt, sbrnrd-rndd, sbsph trnsl-fros qtz, broken i/p

BG 0.88% (2127m-2280m)
87/6/5/2/0

MD: 2285.81m Azi: 353.45°
TVD: 2285.4m Incl: 2.23°

BG 0.15% (2280m-2290m)
78/10/7/3/0

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

2300
2305
2310
2315
2320
2325
2330
2335
2340
2345
2350
2355

FMG 2.363% (2300.9m)
93/4/2/1/0

BG 0.15% (2290m-2340m)
83/9/6/2/0

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

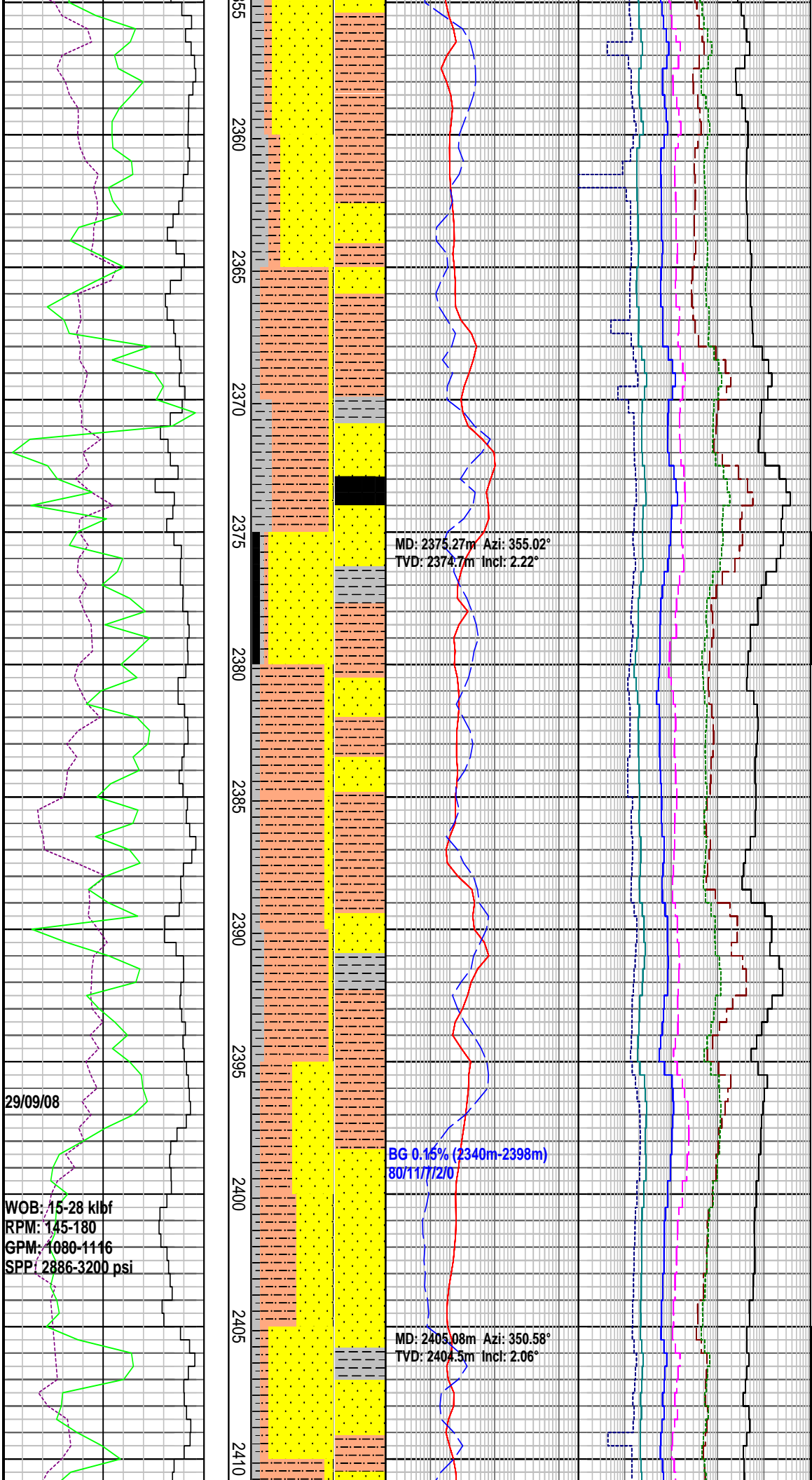
SANDSTONE: wh-lt gy, lse, m-crs,
mod-wl srt, sbrn-dd-rn-dd,
sbsph, trnsl-fros qtz, broken i/p

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

CLAYSTONE: lt gy- m gy, mod frm,
sbbkly-blky, sli 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, sbrn-dd-rn-dd,
sbsph, trnsl-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

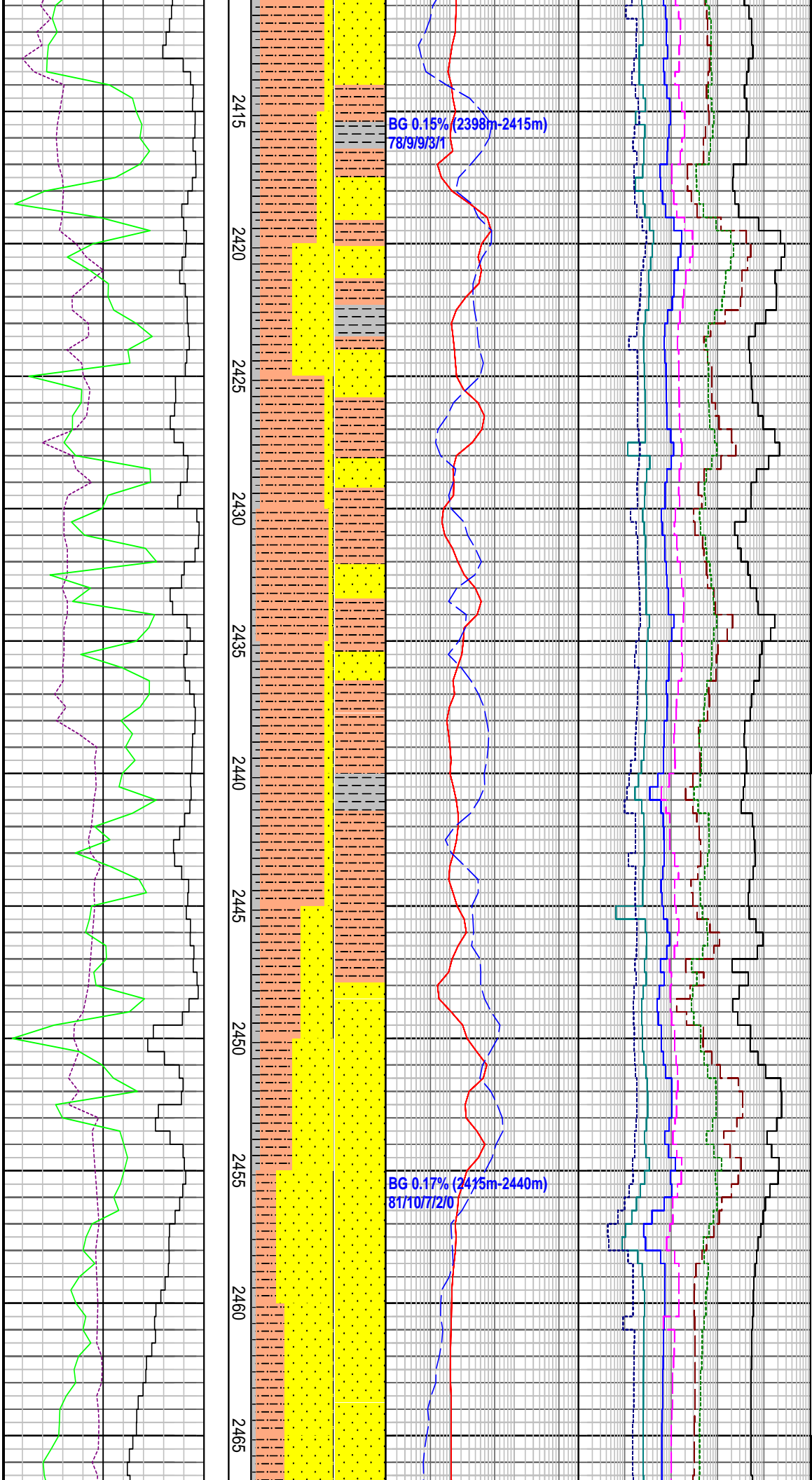
SANDSTONE: gysh yel-mod olv brn, agg v f sd, wl srt, with wh-lt gy, lse, m-crs-granule, mod srt, sbrndd-rndd, sbsph trnsi-fros qtz, broken i/p

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.



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

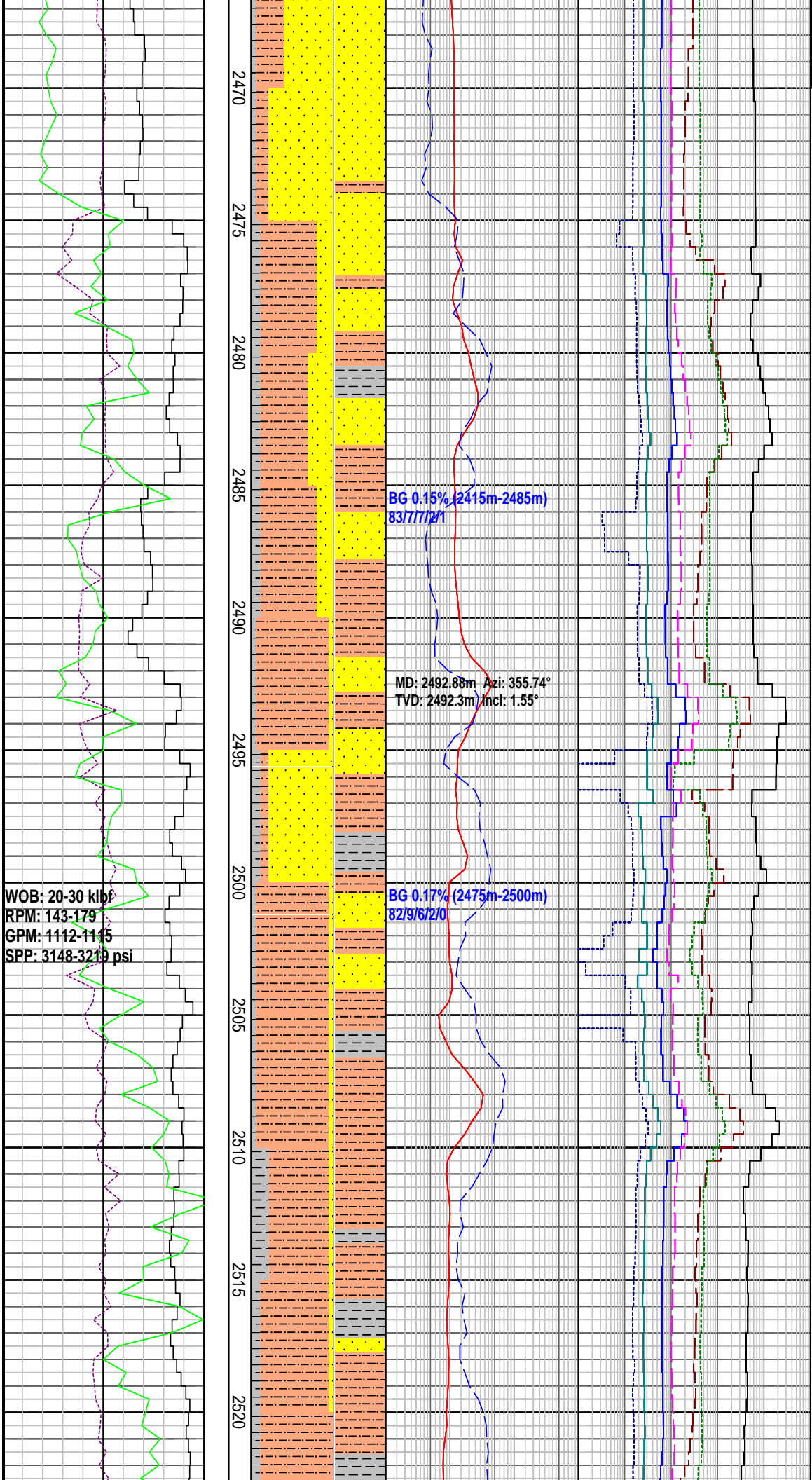
SANDSTONE: lt-m gy lse f lower-crs
lower, dom m sd, pr-mod srt,
sbang-sbrndd clr-frs qtz, tr qtz
granules, tr calc m sst, tr xln pyr

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, 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 mnv 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, blk, 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

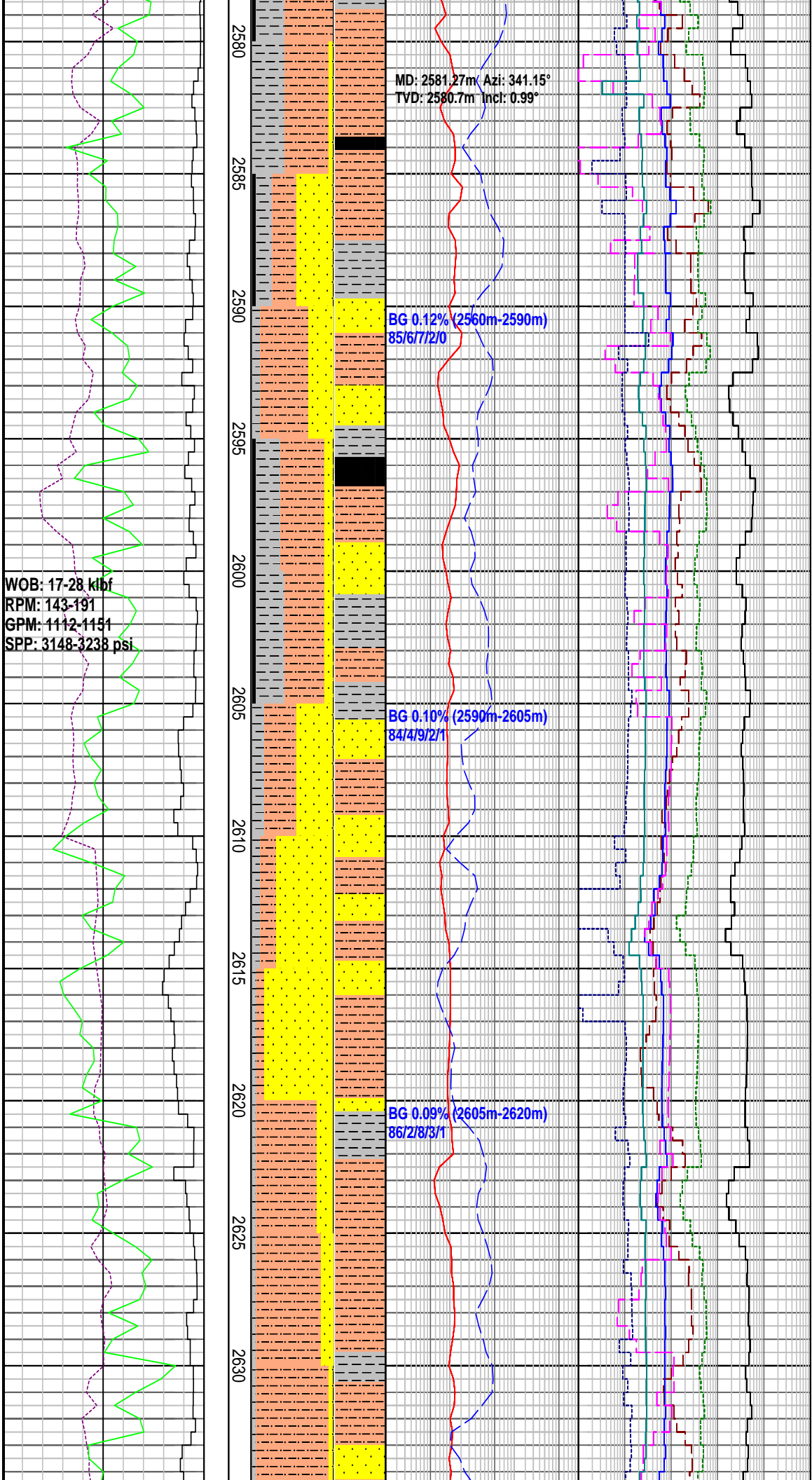
SANDSTONE: lt-m brnsh gy, frm-mod hd, v f lower-upper sst, wl srt sbang qtz, tr mic in slty mtrx, wkly cmt, com carb lam

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 slty, 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 slty, 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

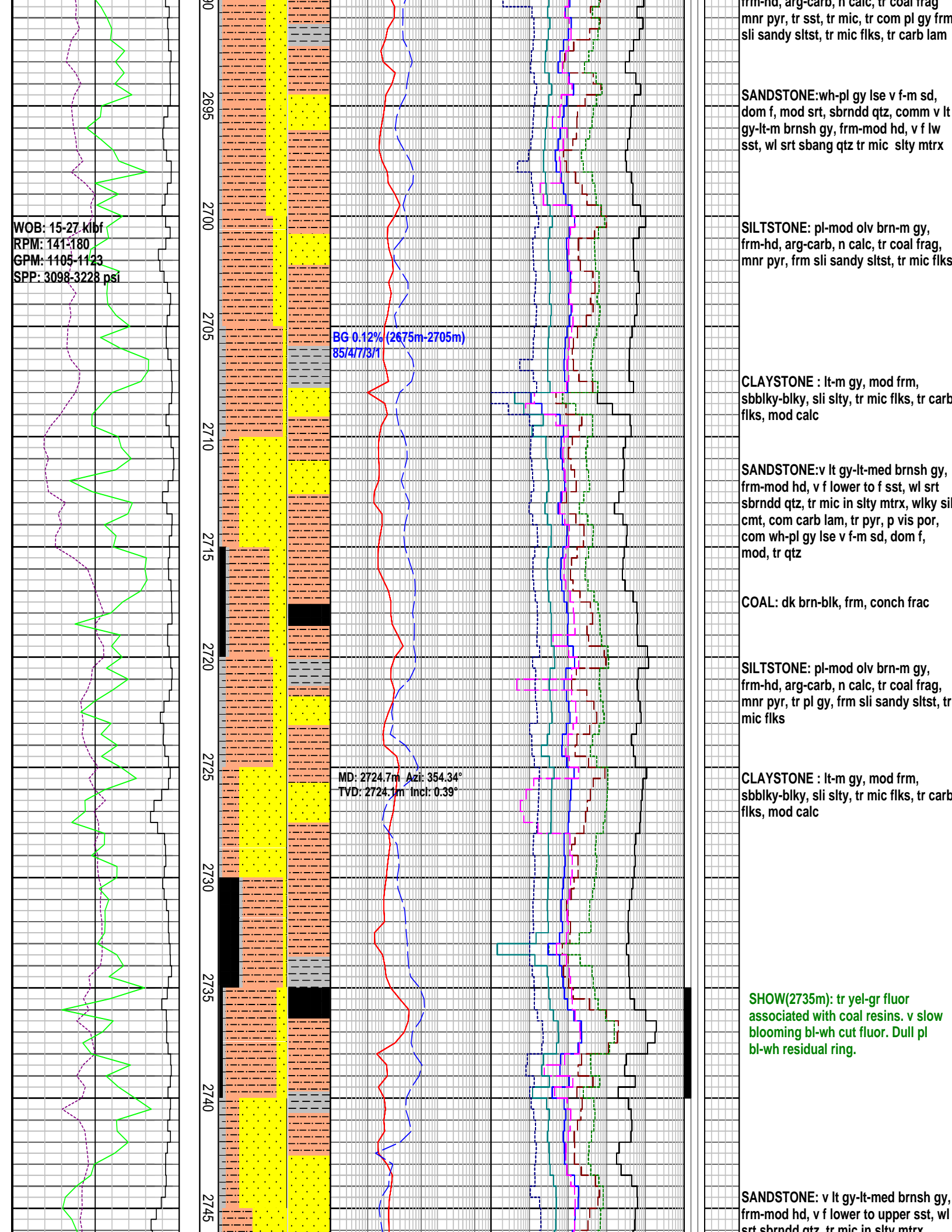
CLAYSTONE : lt-m gy, sft-mod frm, sbbly-blky, sli slty, tr mic flks, tr carb flks, mod calc

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, sbbly-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



WOB: 15-27 kbf
 RPM: 141-180
 GPM: 1105-1123
 SPP: 3098-3228 psi

BG 0.12% (2675m-2705m)
 85/47/3/1

MD: 2724.7m Azi: 354.34°
 TVD: 2724.1m Incl: 0.39°

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,
 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
 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

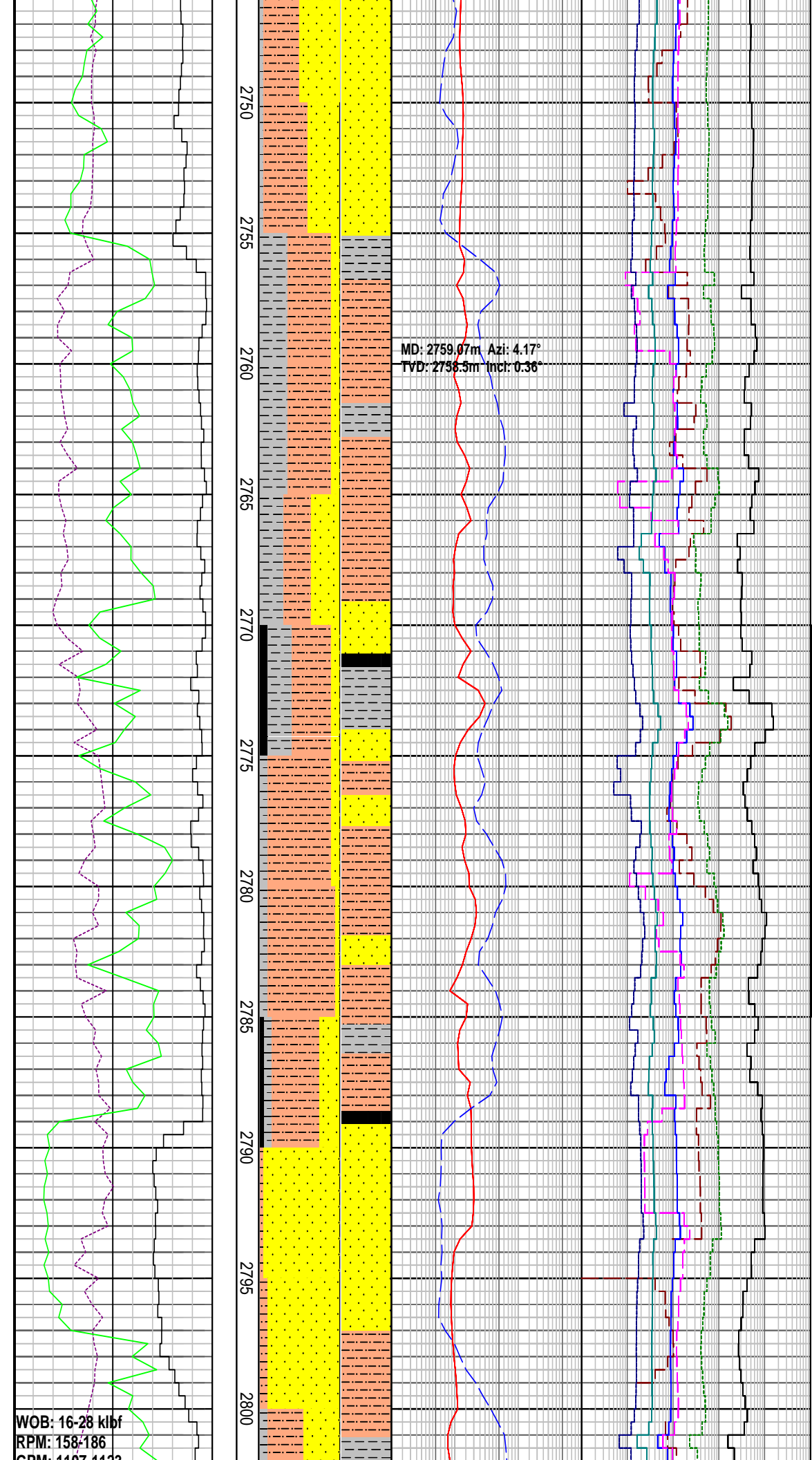
COAL: dk brn-blk, frm, conch frac

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

SHOW(2735m): tr yel-gr fluor
 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 sbrnnd qtz tr mic in slty mtrx



Silt 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

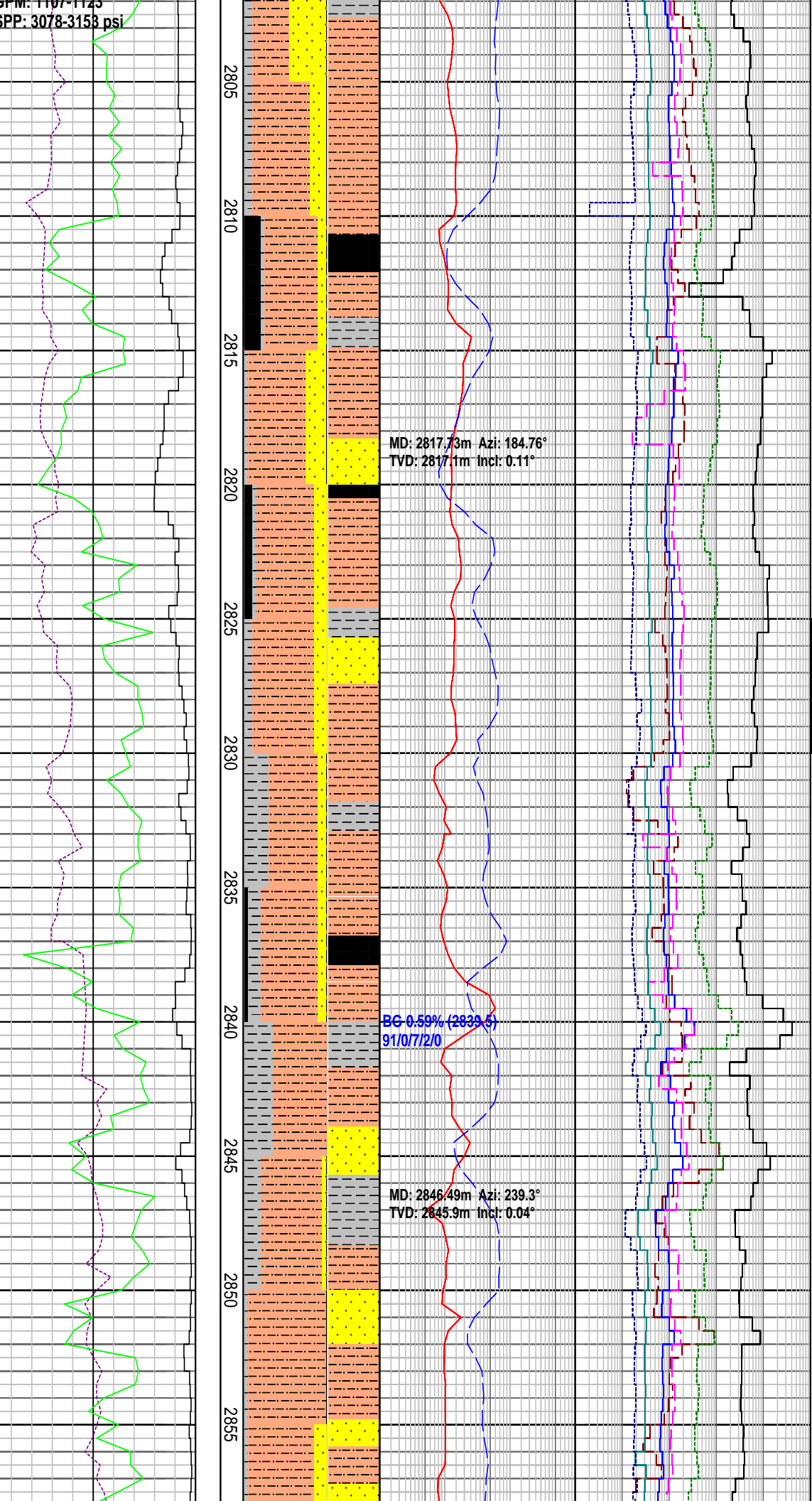
SANDSTONE: v lt gy-lt-med brnsh gy, frm-mod hd, v f lower to f sst, wl srt sbrndd qtz and tr mic in slty mtrx, wlkly sil cmt, com carb lam, tr pyr, pr vis por, with lse v f-med sd, tr qtz granules

SHOW(2770m-2785m): tr yel-gr fluor 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



minr 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, mntr 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, mntr 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 associated with siltstone, 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 slty, tr mic flks, tr carb flks, tr carb flks, mod calc

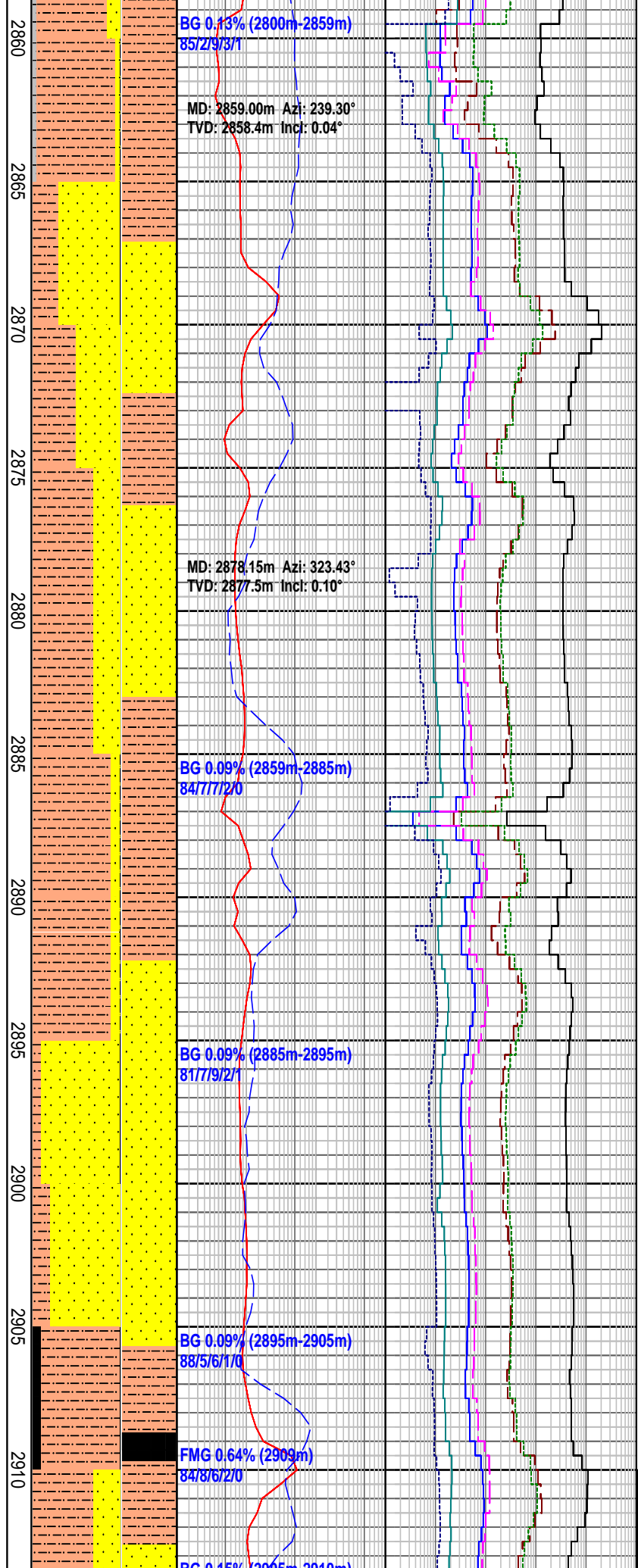
SANDSTONE: v lt-gy-lt-m brnsh gy, frm-mod hd, v f lower-upper sst, wl srt, sbang-sbrndd qrtz and tr mic in slty mtrx, wlky sil cmt, com carb lam with mntr lse v f-med sd

SILTSTONE: 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, tr carb lam

NB4: 311mm (12-1/4")
 Make: Reed
 Type: PDC/RSR 816M-A1
 Jets: 8x13
 Depth In: 2859.0m
 Depth Out: 3287.0m
 Drilled : 428.0m in 39.8hrs
 Grade:
 2-5-WT-S-X-1-HC-PR

03/10/08

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



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

FMG 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

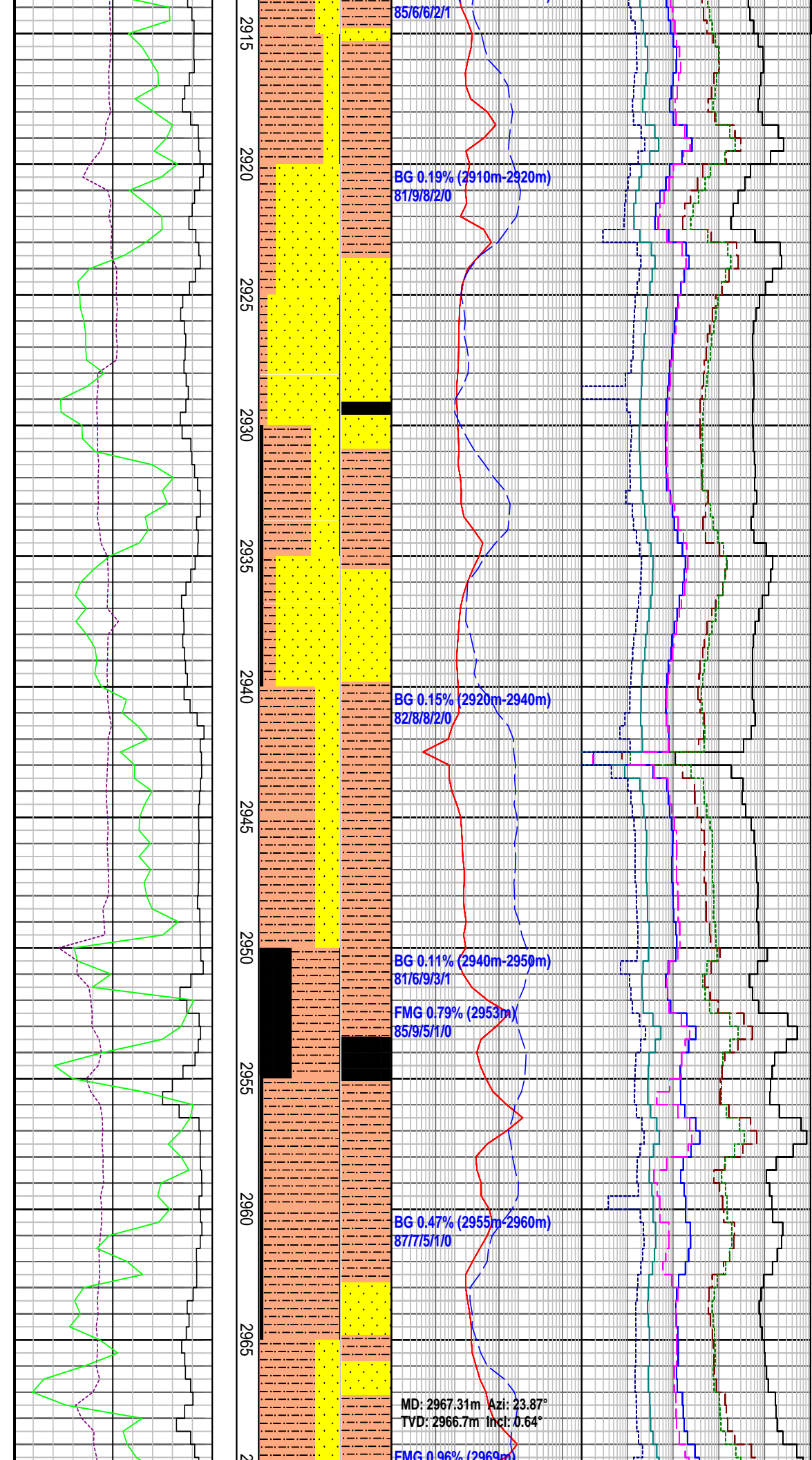
SANDSTONE: wh-pl gy agg, v f-f, wl srt sbrndd qtz gr, tr fspr, tr musc flks, tr pyr cry, with com wh-pl gy m sst agg, wl srt, sbang-sbrndd qtz in com slty mtrx, mnr sil cmt,

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, com pyr with glau

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 mtr 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 mnr wh-pl gy-yelsh gy f-crs agg, mod srt,



sbang-sbrndd qtz in mnr slty mtr
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,

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

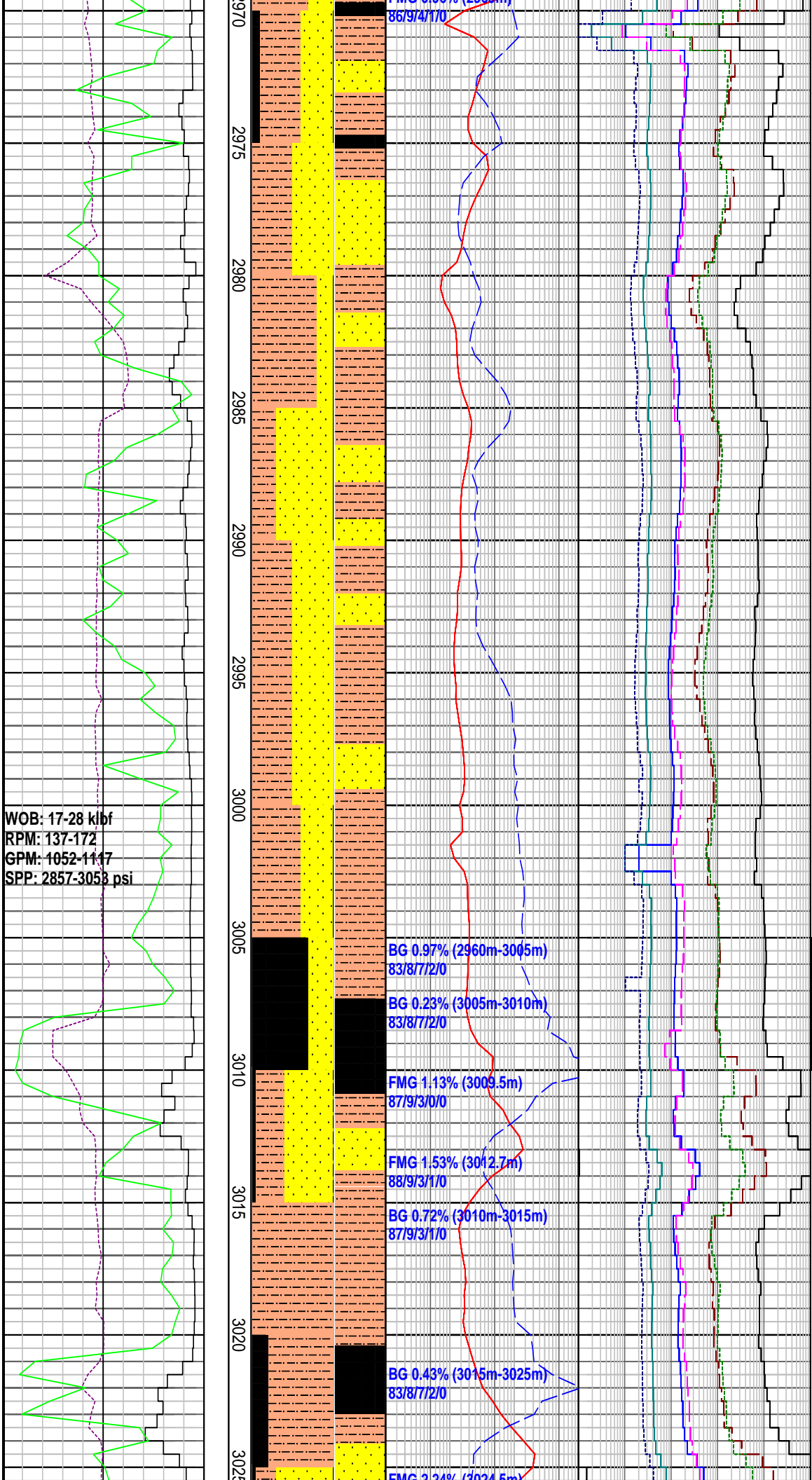
SANDSTONE: lse f-m dom f upper-m
lower wl srt sbrndd qtz gr, tr fspr, tr
musc flks, tr py cry, with com wh-pl
gy m sst agg, wl srt, sbang-sbrndd qtz
in com slty mtrx, mnr sil cmt,
fri-frm, tr carb frag, pr vis por, mnr sft
wh rock flour

MW: 10.5 ppg	FV: 56
PV: 14	YP: 37
Gels: 14/21/27	pH: 8.5

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

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



SILTSTONE: dkgy-brn gy,m brn gy, frm-hd, mod hd i/p, blk, n calc, mn pyr, tr mic flks, grdg to sst

SANDSTONE: wh-pl gy agg, v f-f, 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, mn sil cmt

SANDSTONE: wh-pl gy agg, v f-f, 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, mn sil cmt

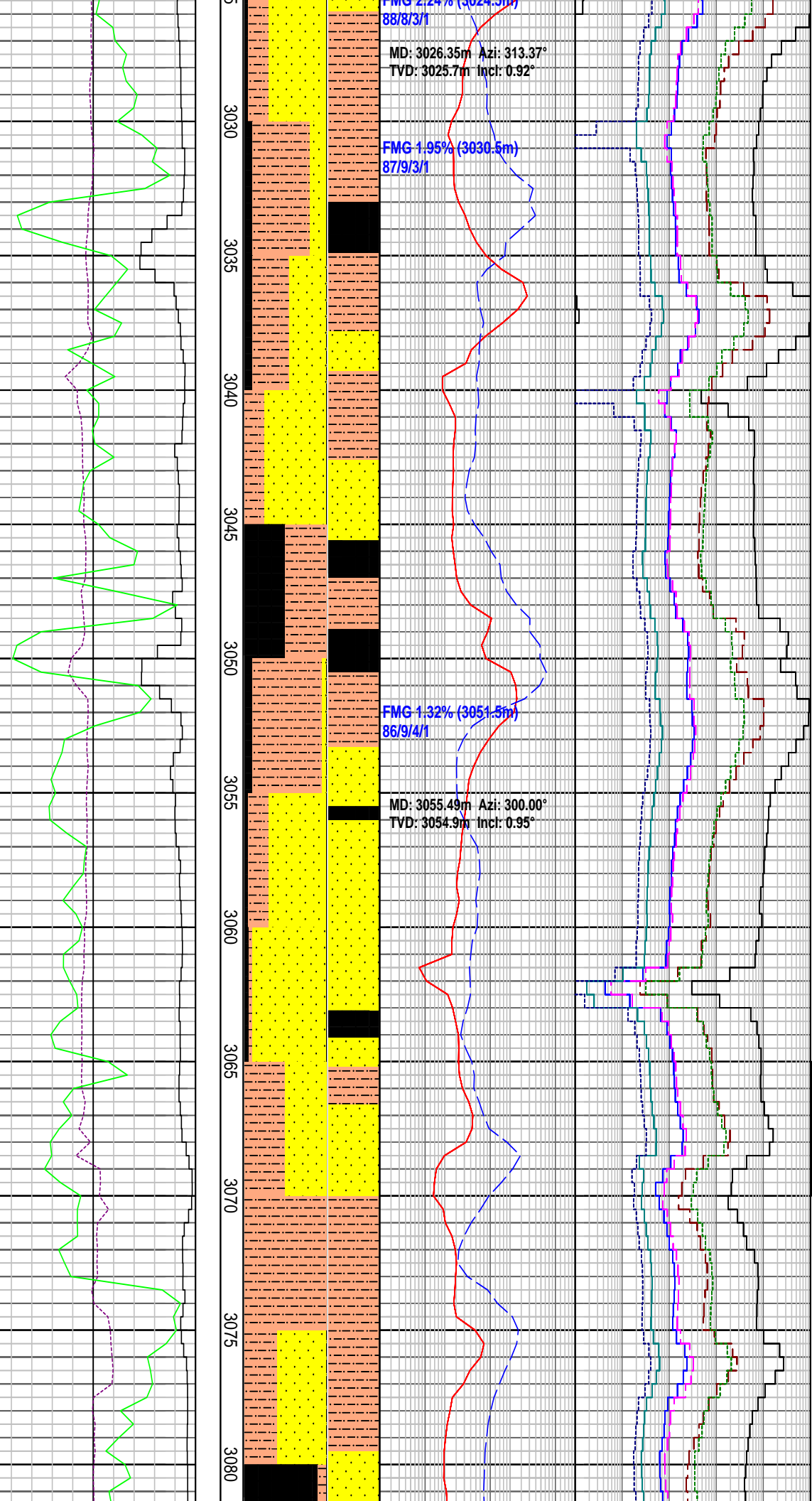
SHOWS (3005m-3010m): tr mod brt yel pinpoint fluor in sltst and coal mod fast blooming mod brt bl-wh cut fluor thin-wide mod brt-brt gr-bl fluor residual ring, nil vis residual

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

SILTSTONE: dkgy-brn gy,m brn gy, frm-hd, mod hd i/p, blk, n calc, mn pyr, tr mic flks, grdg to sst

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

SANDSTONE: wh-pl gy agg, v f-f, wl



SANDSTONE: wh-pl gy agg, v f-f, w srt sbrndd qtz gr, tr fspr, tr musc flks, tr pyr cry, with mnr wh-pl gy m sst agg, wl srt, sbang-sbrndd qtz in com slty mtrx, mnr sil cmt

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

SANDSTONE: wh-pl gy agg, v f-f, wl srt sbrndd qtz gr, tr fspr, tr musc flks, tr pyr cry, with mnr wh-pl gy m sst agg, wl srt, sbang-sbrndd qtz com slty mtrx, mnr sil cmt, tr carb

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

SILTSTONE: dk brn-brn blk, frm-hd blk, argi to carb, tr c seg, mnr pyr

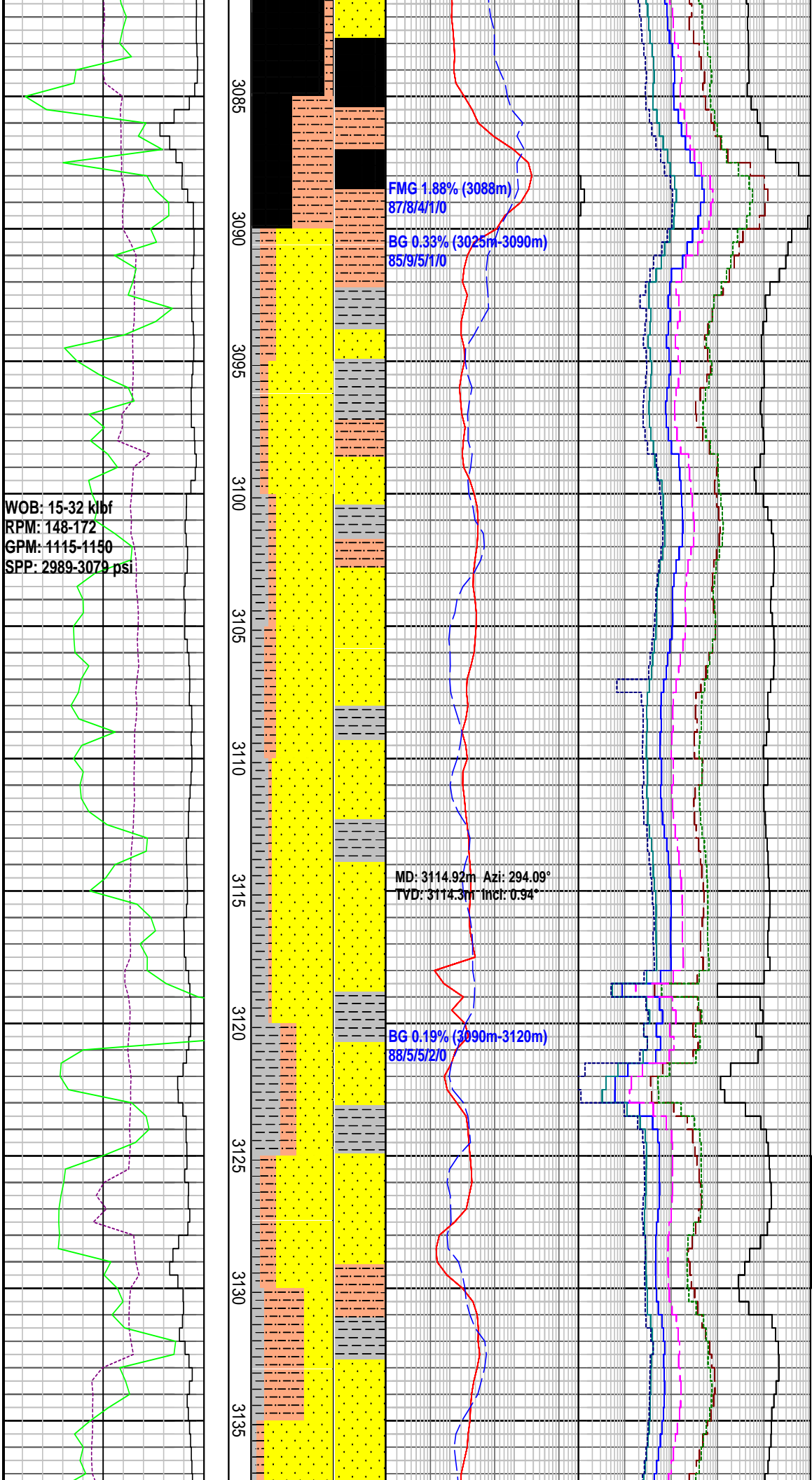
SILTSTONE: dk brn-brn blk, frm-hd blk, argi to carb, n calc, tr c seg, mnr pyr

SANDSTONE: wh-pl gy agg, v f-f, wl srt sbrndd qtz gr, tr fspr, tr musc flks, tr pyr cry, with mnr wh-pl gy m sst agg, wl srt, sbang-sbrndd carb mtrx, mod to hd Dol cmt, tr coal

SHOWS (3065m-3070m): 5% v dull grsh yel pinpoint fluor in f sst v slow blooming v dull bl wh cut fluor, thin dull bl wh fluor residual ring, nil vis residue

MW: 10.0 ppg	FV: 48
PV: 19	YP: 36
Gels: 12/21/26	pH: 9.0

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



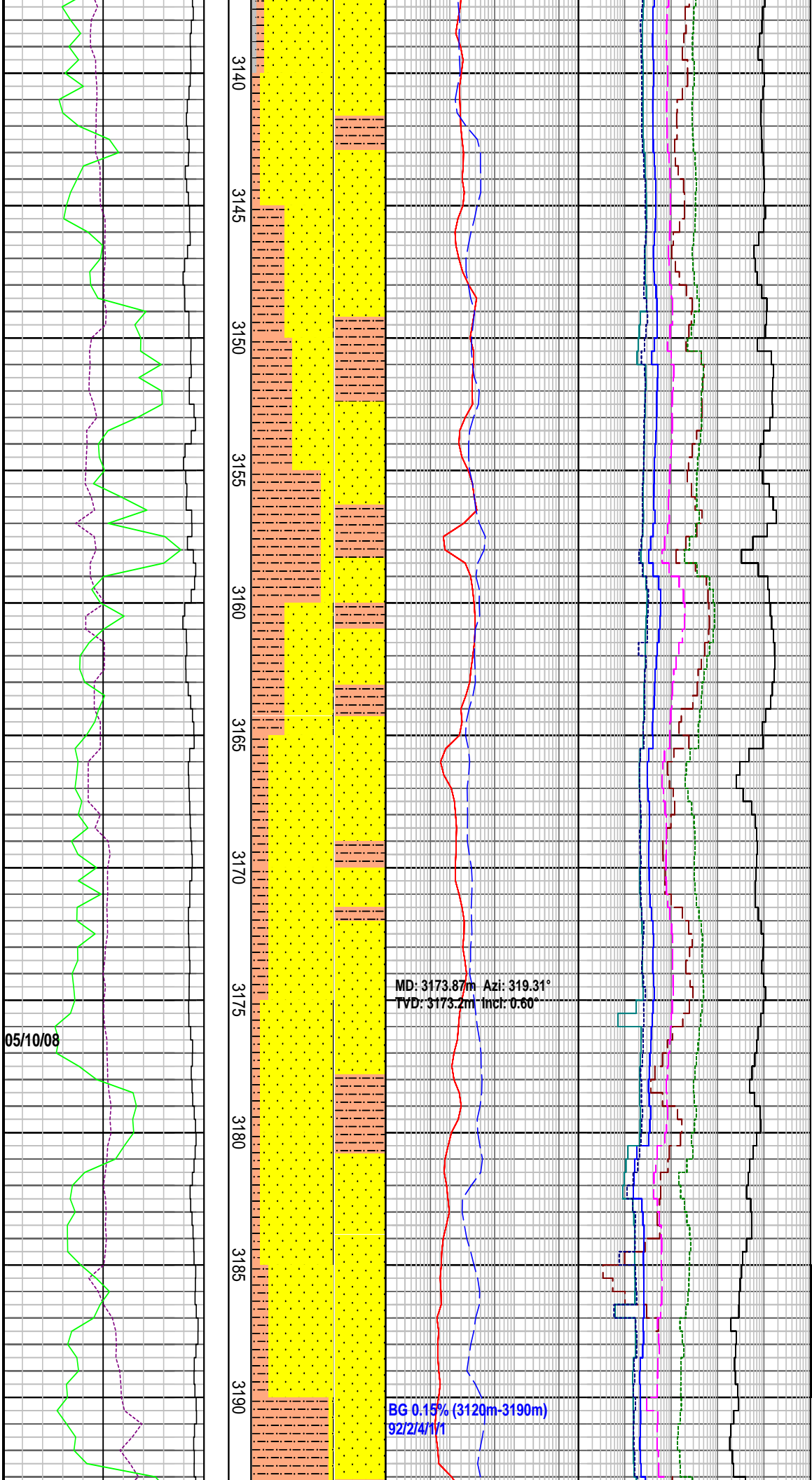
SILTSTONE: dk brn-brn blk, frm-hd, blk, argi to carb, n calc, tr c seg, mnr pyr

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

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

SANDSTONE: lse f-granule dom crs (upper) mod srt sbrndd qtz gr, tr flds, tr musc flks, tr pyr cry, wh-pl gy f-m sst agg, wl srt, sbang-sbrndd qtz in com slty carb mtrx, tr pyr cmt, tr carb frag, pr vis por, mnr sft wh rock flour inf to be sst, tr coal

SHOWS (3125m-3130m):tr v dull grsh yel pinpoint flour in f sltst v slow blooming v dull bl wh cut flour, thin mod brt bl wh flour residual ring, nil vis residue



SANDSTONE: lse f-granule dom crs pr srt sbang qtz gr, tr flds, tr musc flks, rr wh-pl gy f-m sst agg, mod srtd, subang-sbrndd qtz in com slty carb mtrx, mod sil cmt

SANDSTONE: lse f-granule dom crs (lower) pr srt sbang qtz gr, tr flds, tr musc flks, rr wh-pl gy f-m sst agg, mod srtd, subang-sbrndd qtz in com slty carb mtrx, mod sil cmt, fri-fr tr carb frag, pr vis por, mod abund sft wh rock flour inf- from sst, tr coal.

SILTSTONE: dk brn-brnsh blk, frm-hd, blk, arg-carb, tr v f sd i/p, tr coal frag, tr pyr clay

MW: 10.0 ppg	FV: 49
PV: 19	YP: 39
Gels: 14/23/29	pH: 9.0

SANDSTONE: wh-lt gy, m gy, lse f-granule dom crs (lower) pr srt sbang qtz gr, tr crs gr, tr flds, tr musc flks, rr wh-pl gy f-m sst agg, mod srtd, subang-sbrndd qtz in com slty carb mtrx, mod sil cmt, fri-fr, tr carb frag, pr vis por, mod abund sft wh rock flour inf- from sst, tr coal.

MW: 10.0 ppg	FV: 48
PV: 16	YP: 40
Gels: 20/26/30	pH: 8.5

SILTSTONE: dk brn-brnsh blk, frm-hd, blk, arg-carb, tr v f sd i/p, tr coal frag, tr pyr clay

SANDSTONE: wh-lt gy, m gy, lse f-granule dom crs (lower) pr srt sbang qtz gr, tr crs gr, tr flds, tr musc flks, rr wh-pl gy f-m sst agg, mod srtd, sbang-sbrndd qtz in com slty carb mtrx, mod sil cmt, fri-fr, tr carb frag, pr vis por, mod abnd sft wh rock flour inf- from sst, tr coal.

WOB: 20-34 klbf
RPM: 137-177
GPM: 1112-1149
SPP: 2993-3085 psi

3195
3200
3205
3210
3215
3220
3225
3230
3235
3240
3245

MD: 3203.64m Azi: 322.06°
TVD: 3203.0m Incl: 0.67°

BG 0.15% (3090m-3210m)
9173/5/1/0

BG 0.17% (3210m-3240m)
9074/5/1/0

FMG 0.99% (3244.5m)
93/4/2/1/0

SHOWS (3185m-3190m): tr brt grsh
yel pinpoint fluor in f sltst slow
blooming mod brt bl wh cut fluor,
wide mod brt bl wh fluor residual
ring, v pl yel vis residue

SANDSTONE: pl gy-wh, lse f-m sd, wl
srt, sbang-sbrndd qtz, tr fspr, tr mic, tr
coaly frag, frm-hd agg, with slty mtrx

SILTSTONE: dk brn gy, frm-hd, blk,
arg-carb, tr v f sd, tr carb frag,
mnr-com pyr clay

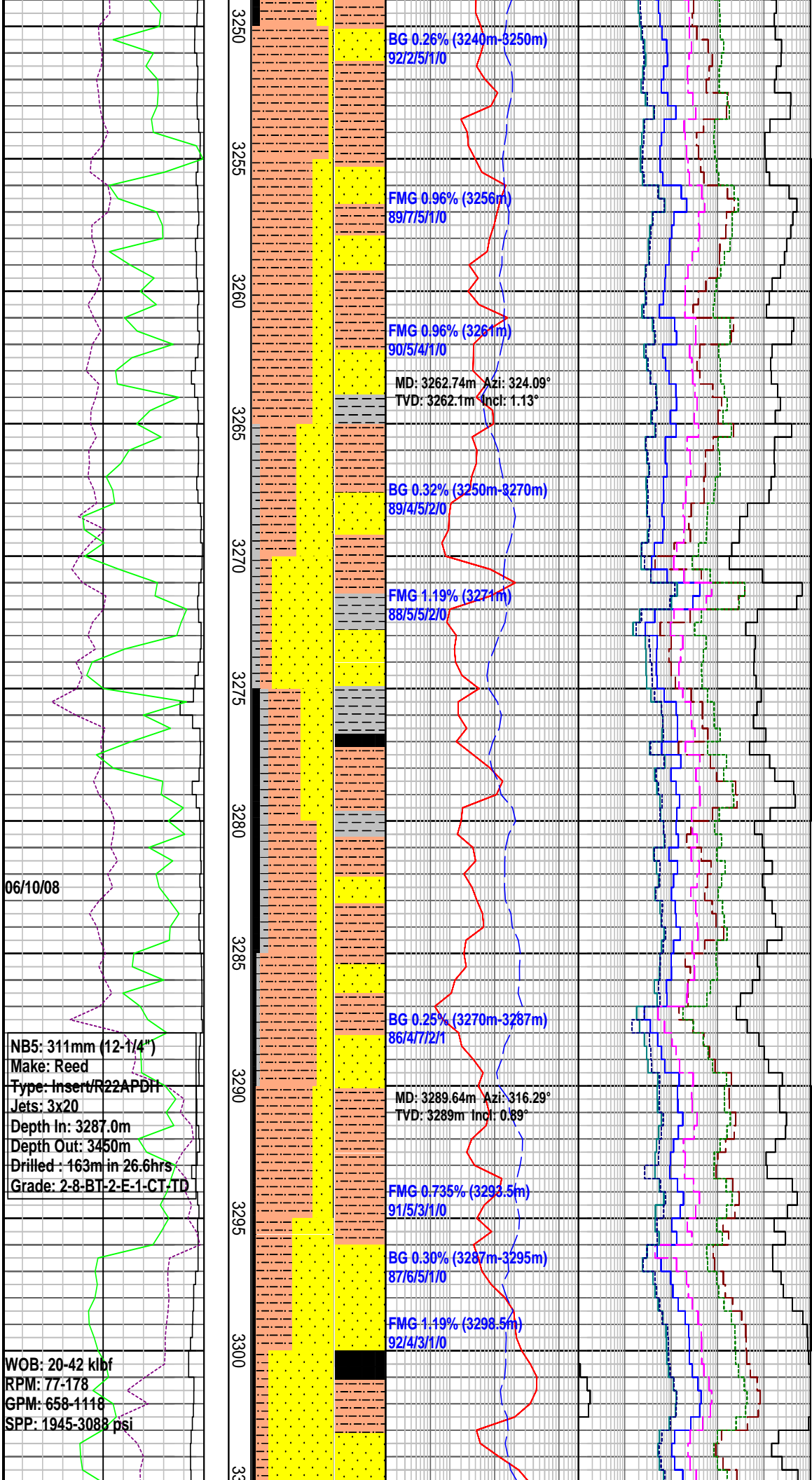
SANDSTONE: pl gy-wh, lse f-m sd, wl
srt, sbang-sbrndd qtz, tr fspr, tr mic, tr
coaly frag, frm-hd agg, with slty mtrx,
mod sil cmt, tr pyr

SILTSTONE: dk brn gy, frm-hd, blk,
arg-carb, tr v f sd, tr carb frag,
mnr-com pyr clay

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

SANDSTONE: pl gy-wh, lse f-m sd, wl
srt, sbang-sbrndd qtz, tr felds, tr mic,
tr coaly frag, frm-hd agg, with slty
mtrx, mod sil cmt, tr pyr, tr titanite

SILTSTONE: dk brn gy, frm-hd, blk,
arg-carb, tr v f sd, tr carb frag,
mnr-com pyr clay



MW: 10.0 ppg FV: 48
 PV: 16 YP:43
 Gels: 14/26/30 pH: 8.5

SANDSTONE:pl gy-wh lse f-crs, dom m lower sand, mod-wl srt, sbang-sbrndd qtz, tr fspr, tr mic, tr coaly frag, mod abund frm-hd m sand agg with slty mtrx, mod sil cmt, mnr wh-pl gy rock flour interpreted to be derived from sst

SHOWS (3255m-3265m): mod brt gn-yel associated with m sst, slow-mod fast blooming, dull-mod brt bl-wh cut with wide faint bl-wh residual ring

SHOWS (3265m-3270m): tr mod brt gn-yel associated with wh gn rock flour (sst), v slow to mod slow blooming bl wh cut flour.Dull and patchy bl wh residual ring

SANDSTONE:pl gy-wh lse v f-crs, dom m lower sand, mod-wl srt, sbang-sbrndd qtz, tr fspr, tr mic, tr coaly frag, tr qtz granules, mod abund frm-hd m sand agg with slty mtrx, mod sil cmt, mnr wh-pl gy rock flour interpreted to be derived from sst

SHOWS (3270m-3280m): 5% mod brt gn-yel associated with cmt m sst, slow-mod fast blooming mod brt bl wh bl cut flour, wide patchy mod brt bl wh residual ring

MW: 10.0 ppg FV: 52
 PV: 13 YP:40
 Gels: 21/26/29 pH: 8.5

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

Bit Trip @3287.0m
SILTSTONE: dk brn gy, frm-hd, blk, arg-carb, tr v f sd, tr carb frag, mnr-com pyr clay

SHOWS (3288m-3295m): tr- 2% dull gns h yel pinpoint fluor in f sst, mod fast streaming brt bl wh cut flour, wide brt bl-wh fluor residual ring, no vis residue

SHOWS (3295m-3300m): 5% dull brt gn-yel associated with cmt m sst, nil cut flour

06/10/08

NB5: 311mm (12-1/4")
 Make: Reed
 Type: Insert/R22APDH
 Jets: 3x20
 Depth In: 3287.0m
 Depth Out: 3450m
 Drilled : 163m in 26.6hrs
 Grade: 2-8-BT-2-E-1-CT-TD

WOB: 20-42 klbf
 RPM: 77-178
 GPM: 658-1118
 SPP: 1945-3088 psi

BG 0.26% (3240m-3250m)
 92/2/5/1/0

FMG 0.96% (3256m)
 89/7/5/1/0

FMG 0.96% (3261m)
 90/5/4/1/0

MD: 3262.74m Azi: 324.09°
 TVD: 3262.1m Incl: 1.13°

BG 0.32% (3250m-3270m)
 89/4/5/2/0

FMG 1.19% (3274m)
 88/5/5/2/0

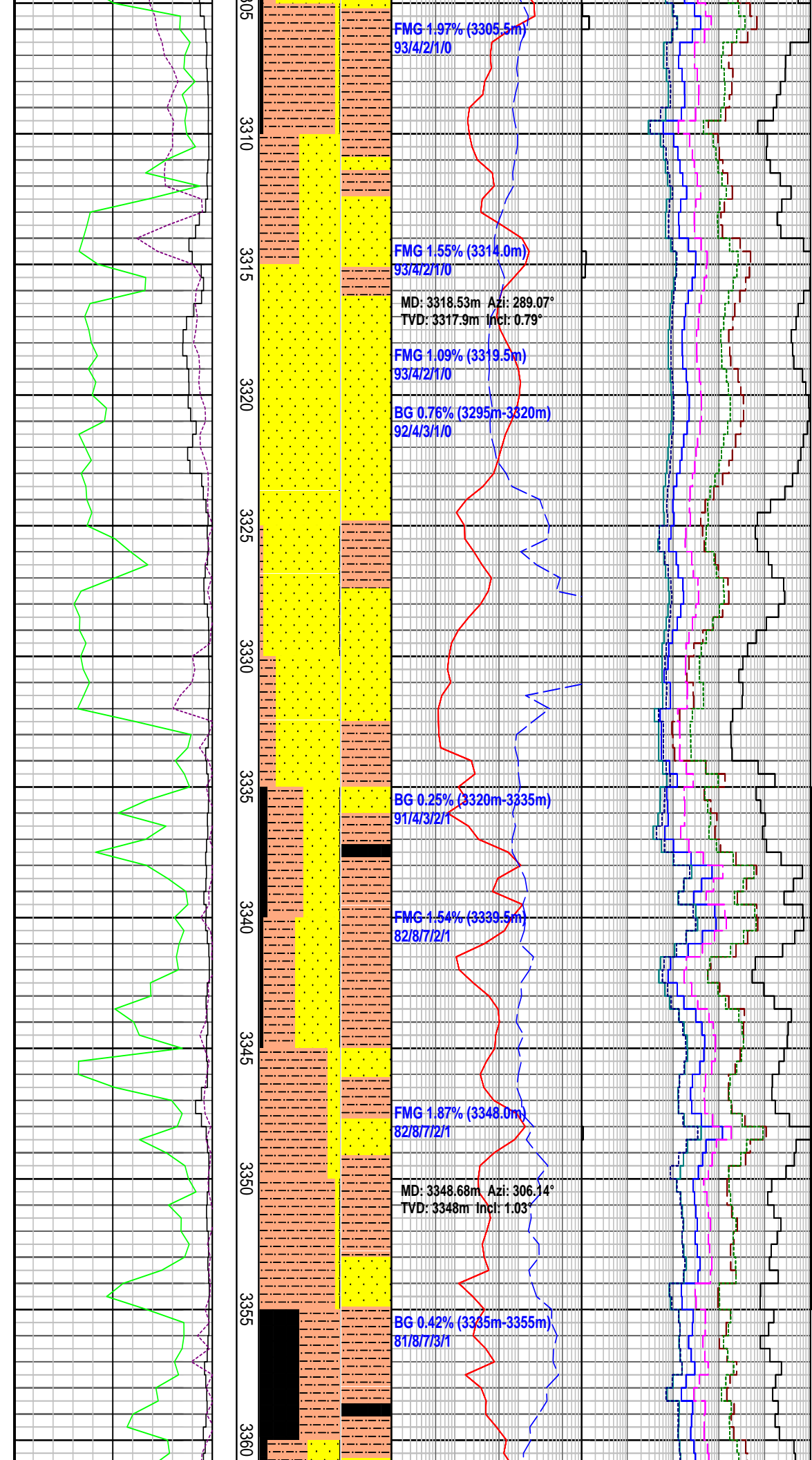
BG 0.25% (3270m-3287m)
 86/4/7/2/1

MD: 3289.64m Azi: 316.29°
 TVD: 3289m Incl: 0.89°

FMG 0.735% (3293.5m)
 91/5/3/1/0

BG 0.30% (3287m-3295m)
 87/6/5/1/0

FMG 1.19% (3298.5m)
 92/4/3/1/0



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

SILTSTONE: dk brn gy, frm-hd, blk, arg-carb, tr v f sd, tr carb frag, mn-r-com pyr clay

SANDSTONE: wh-lt gy-wh, frm-hd w/ cmt, dom m u sand, mod-wl srt, sbang-sbrndd qtz, tr fspr, tr mic, sli sil, tr qtz granules, clr-wh sil cmt, tr carb gran, tr intgran pyr, pr vis p

SANDSTONE: wh-lt gy-wh, lse, m - crs, m-gran crs sd u,5%-10% dusky yel, pr-mod srt, sbang-sbrndd qtz, tr fspr, tr qtz granules, tr carb gran, pr vis por

MW: 10.0 ppg	FV: 48
PV: 15	YP: 40
Gels: 16/24/29	pH: 8.5

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

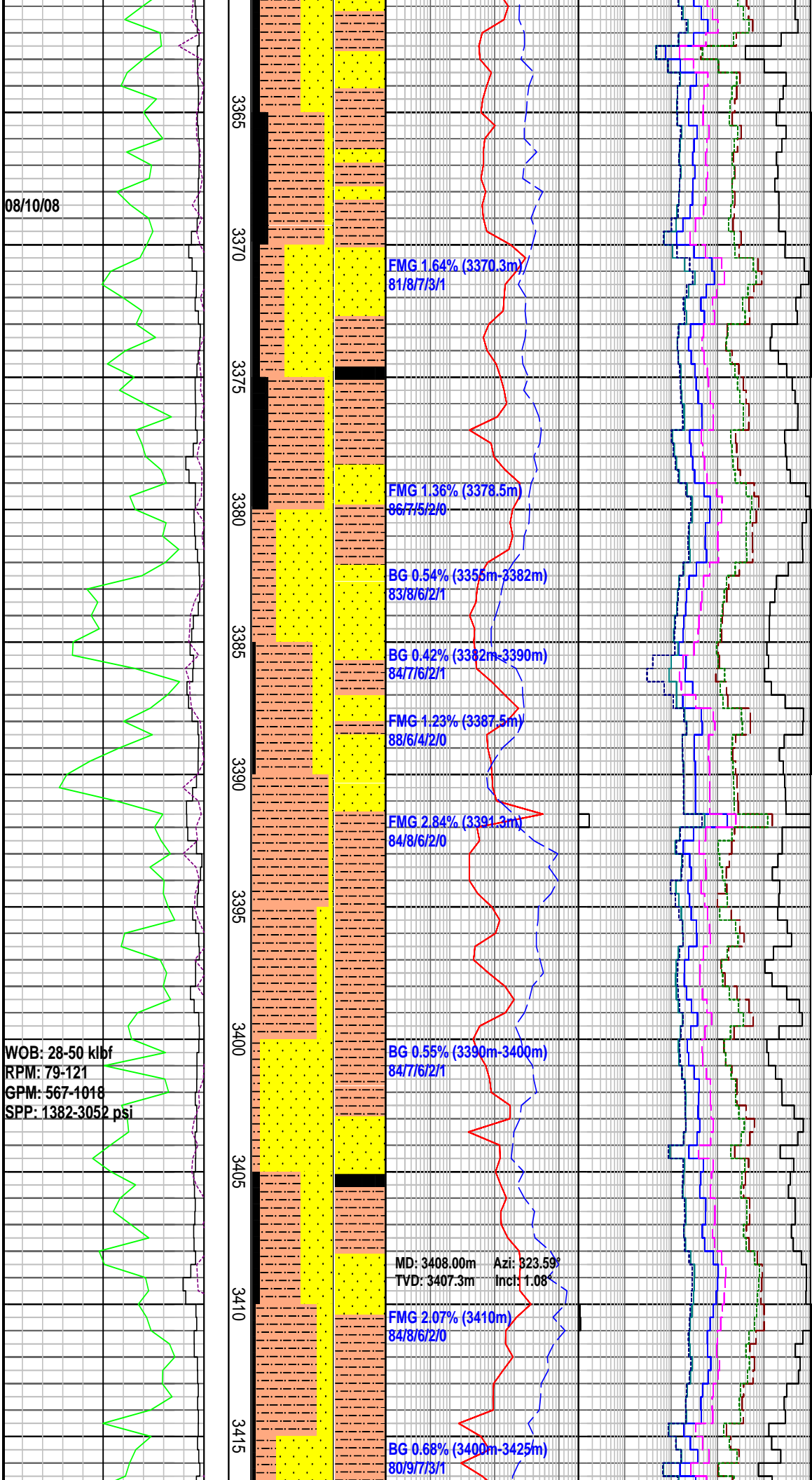
SILTSTONE: dk brn gy, frm-hd, blk, arg-carb, tr v f sd, tr carb frag, mn-r-com pyr clay

MW: 10.0 ppg	FV: 49
PV: 13	YP: 40
Gels: 21/26/29	pH: 8.5

SANDSTONE: wh-lt gy-wh, lse, m - crs, m-gran crs sd u,5%-10% dusky yel, pr-mod srt, sbang-sbrndd qtz, tr fspr, tr qtz granules, tr carb gran, pr vis por

SHOWS (3310m-3355m): Tr - 2% dull yel-gn pinpoint fluor associated with wl cmt m sst, v slow blooming dull bl-wh cut fluor dull faint bl-wh fluor residual ring, no vis residue

COAL : dk gy-blk, frm-hd, dirty, conc-planar frac



SANDSTONE: wh-lt gy, lse, m - crs, m-gran crs sd, pr-mod srt, sbang-sbrndd qtz, tr fspr, tr carb gr, wlky sil cmt, tr pyr nod, pr vis por

SANDSTONE: yelsh gy, lse, f-m lower sand, mod srt, frm-hd, sbang-sbrndd, tr carb frag, sil cmt agg, pr vis por

SHOWS (3365m-3375m): Tr - 2% dull yel-gn pinpoint fluor associated with wl cmt m sst, v slow blooming dull bl-wh cut fluor dull faint bl-wh fluor residual ring, no vis residue

SANDSTONE: yelsh gy, lse, f-m lower sand, mod srt, frm-hd, sbang-sbrndd, tr carb frag, sil cmt agg, pr vis por

SHOWS (3380m-3390m): Tr dull-brt gnsh wh live oil fluor on m sst, v fast streaming brt bl gn cut fluor, wide dull gn fluor residual ring, no vis residue
Also at 3295m, 3340m, 3355m, 3370m

SILTSTONE: m-dk brnsh gy, frm-hd, blk-y-flky, arg-carb, tr v f sd, tr carb frag, tr pyr

SANDSTONE: wh-pl gy, v-f-m agg, mod srt, mod frm-hd, sbang-sbrndd qtz, tr to com wh slty mtrx, tr carb frag mnr pl yel brn sid, frm-hd, mnr sil cmt agg, tr carb frag lam, pr vis por

COAL : blk, dull and dirty

SILTSTONE: m-dk gy, gr-brnsh gy, frm-hd, blk-y-flky, arg, grdg to hd v f sst i/p, tr carb frag

SHOWS (3410-3425m): Tr-2% dull yel-gn pinpoint fluor associated

API

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

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