



Company : Stuart Petroleum Ltd

Well : Bazzard-1

Interval : 81.00 - 3429.00 meters

Created : 08/Oct/2008 8:50:41 AM



INTEQ

FORMATION EVALUATION LOG

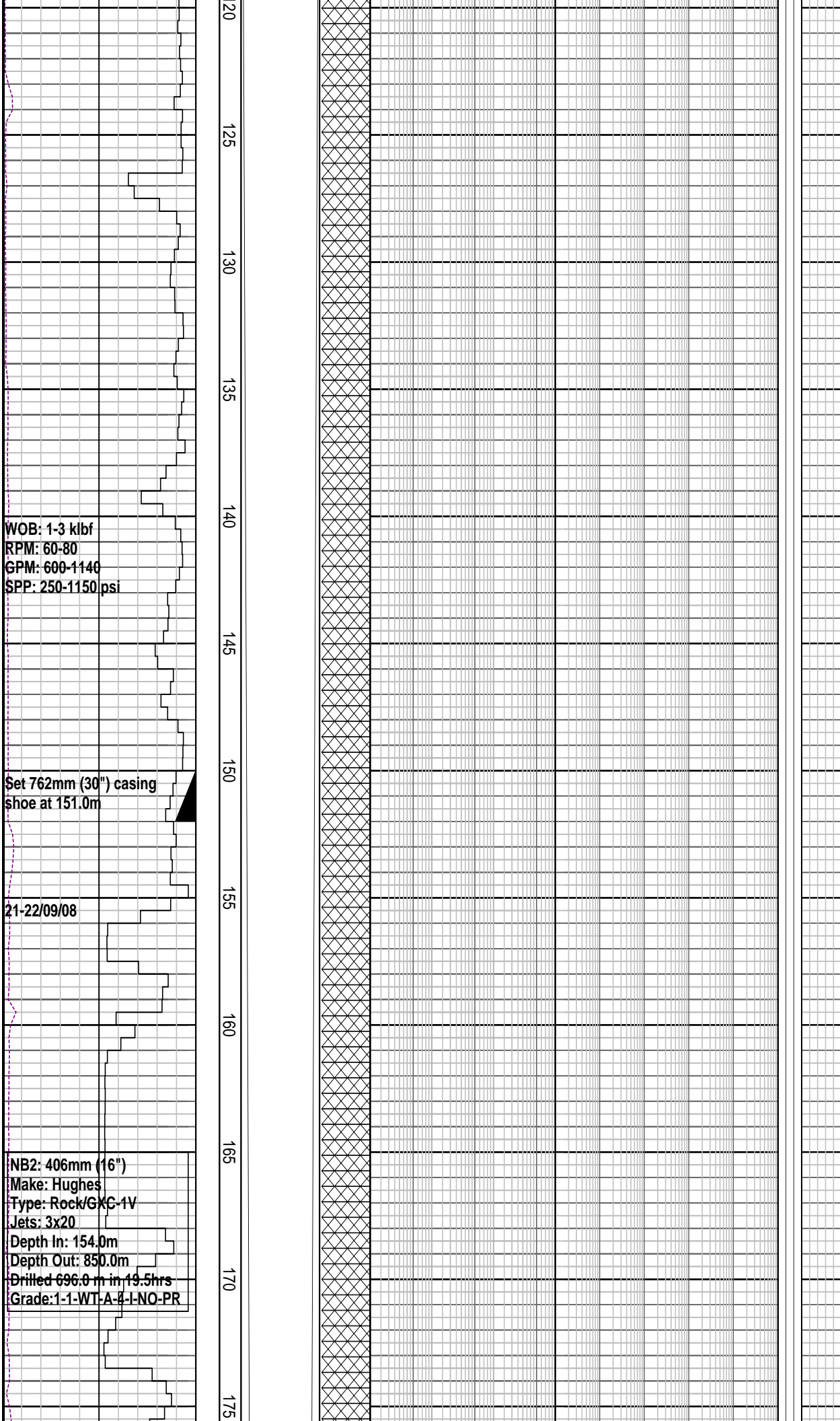
Drilling Rate ROP (m/hr)	CORE	MD meters 1:200	LITHOLOGY %	INTERPRETED LITHOLOGY	TOTAL GAS & RESISTIVITY		CHROMATOGRAPH					Oil Show	Calcimetry	Lithology Description		
					Total Gas %	Resistivity Deep	0.1	0.1	0.1	0.1	0.1				0.1	0.1
200 160 120 80 40					0.1	10	Methane ppm									
WEIGHT ON BIT (klbf)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

		85														
		90														
		95														
		100														
		105														
		110														
		115														
		1														

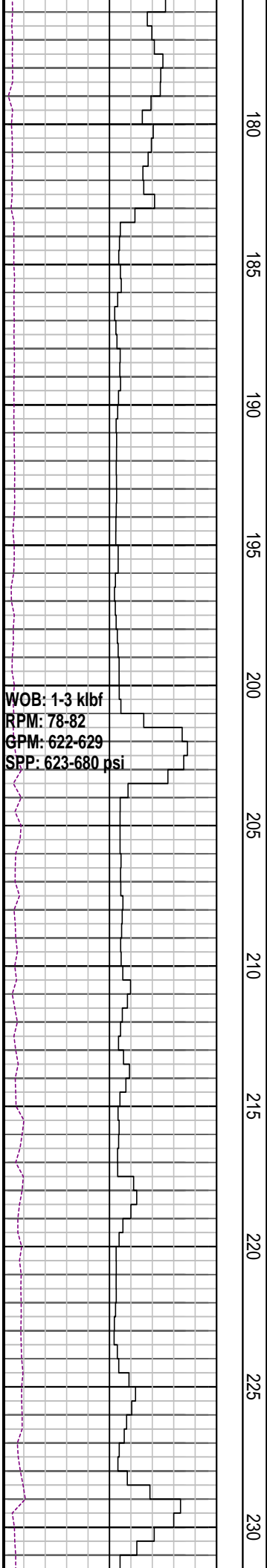
NB1: 660mm (26")
 914mm (36") H/Opener
 Make: Reed
 Type: Rock/Y11C
 Jets: 3x22, 1x16
 Depth In: 106.4m
 Depth Out: 154.0m
 Grade: 1-1-WT-A-NB-I-NO-TD

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

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



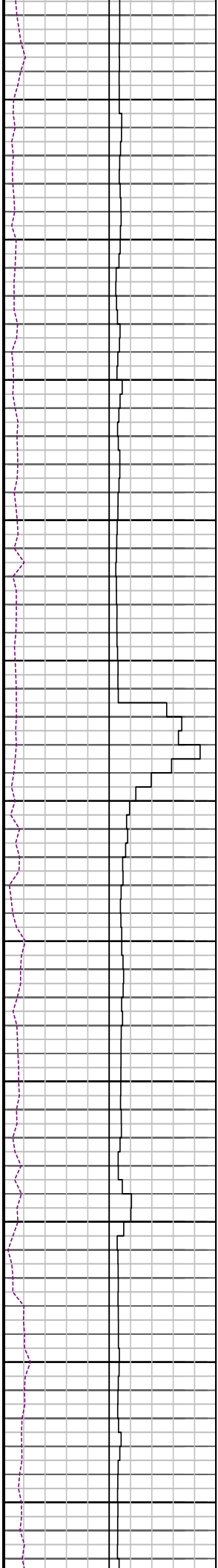
36" Hole Section TD 154.0m



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

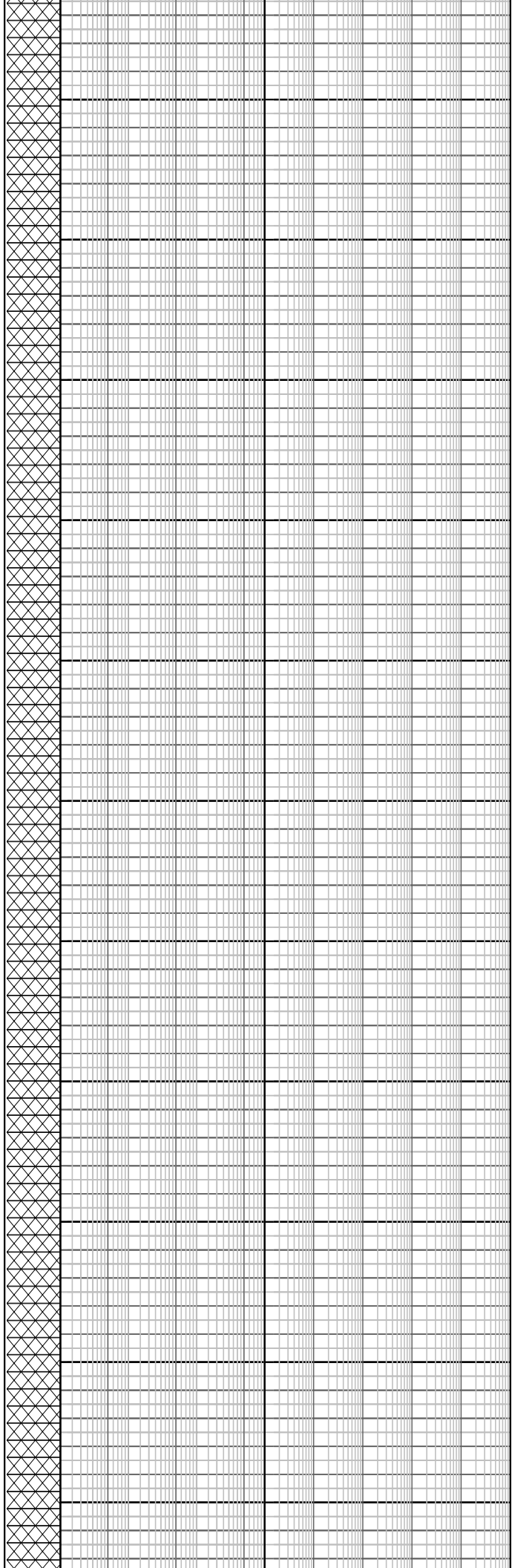
265

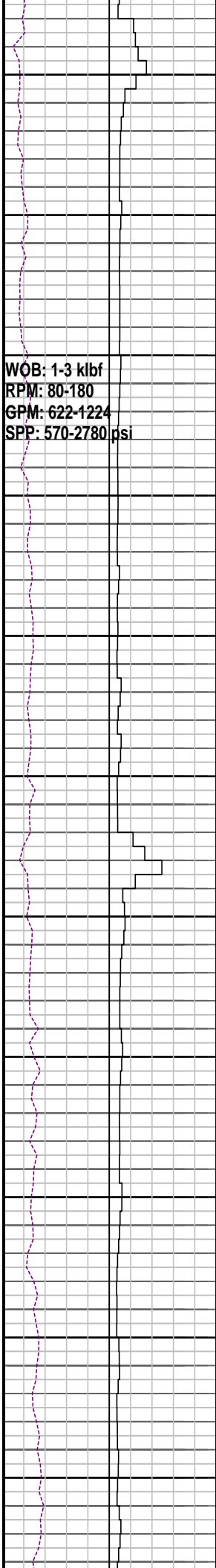
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275

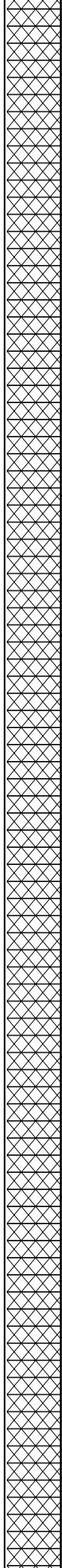
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285



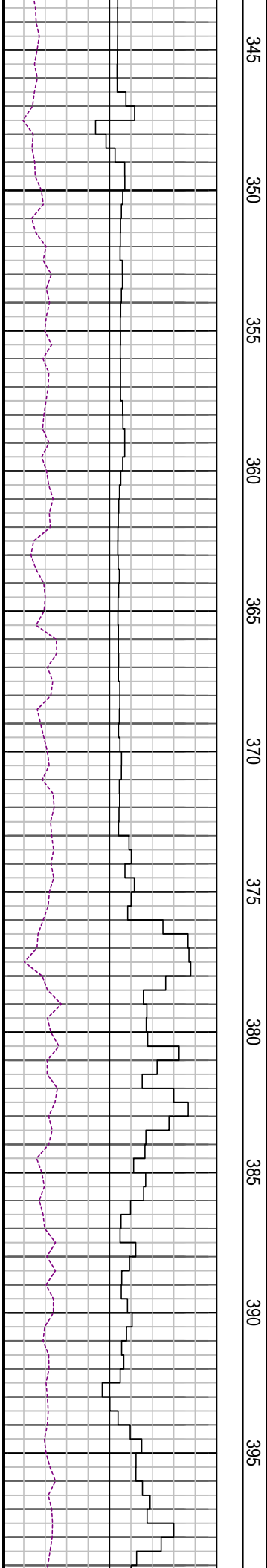


290
295
300
305
310
315
320
325
330
335
340



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

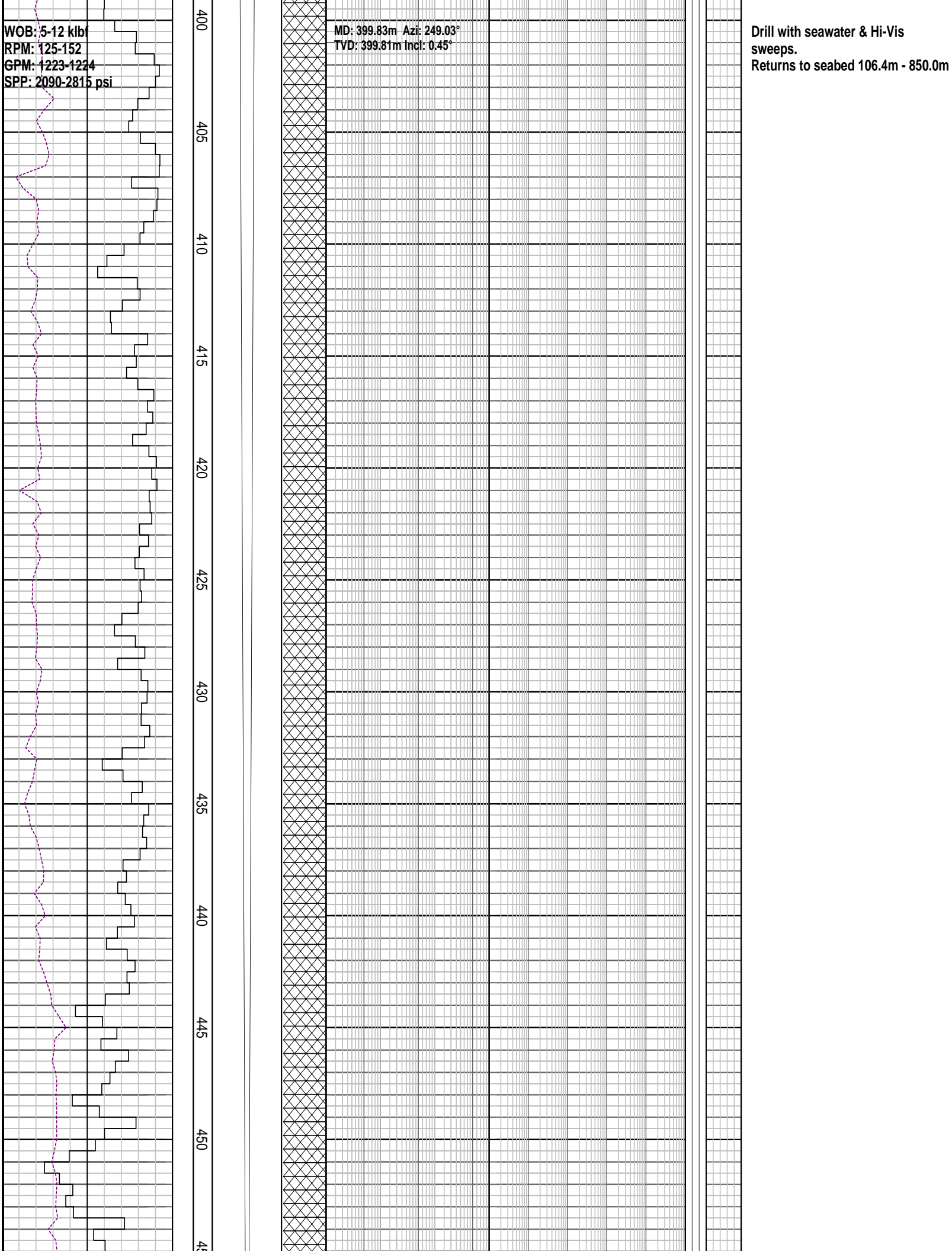
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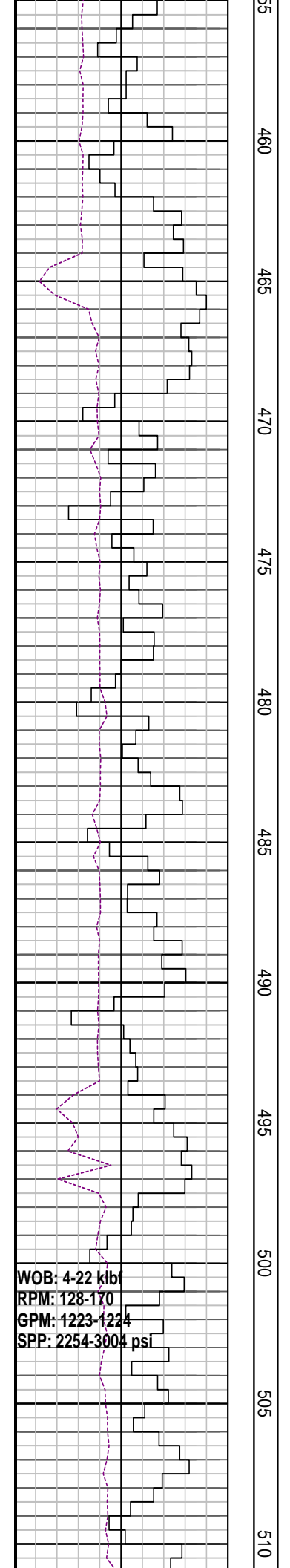
MD: 370.87m Azi: 246.56°
TVD: 370.85m Incl: 0.36°

WOB: 5-12 kbf
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°

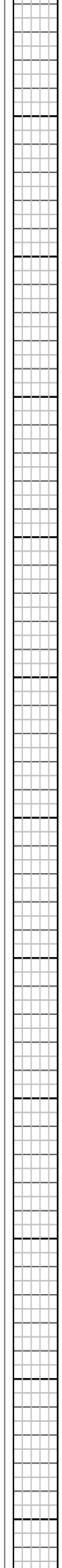
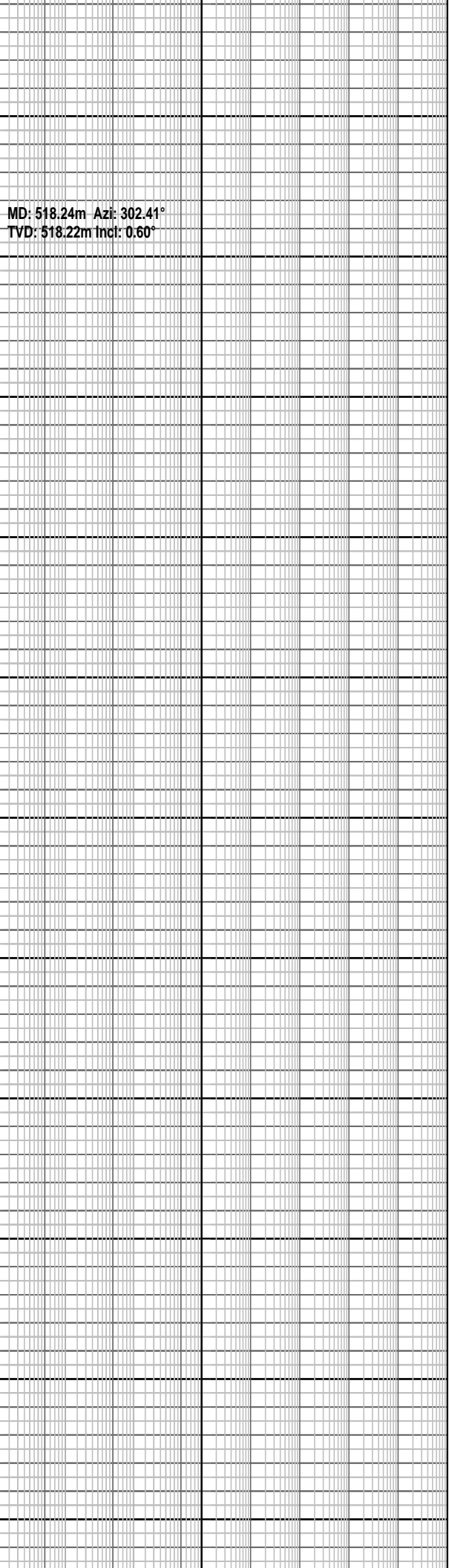
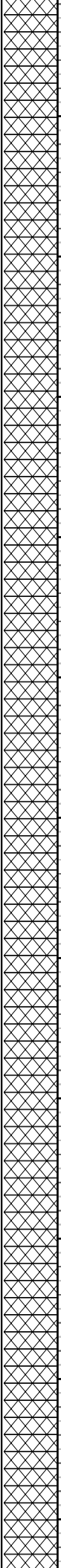
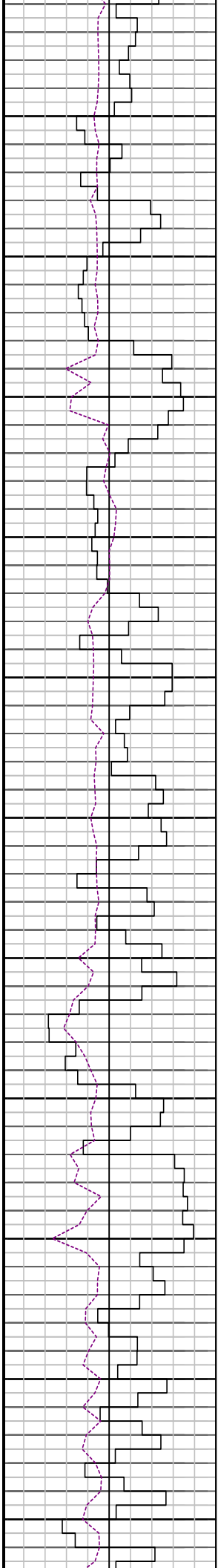
MD: 488.50m Azi: 298.03°
TVD: 488.48m Incl: 0.55°

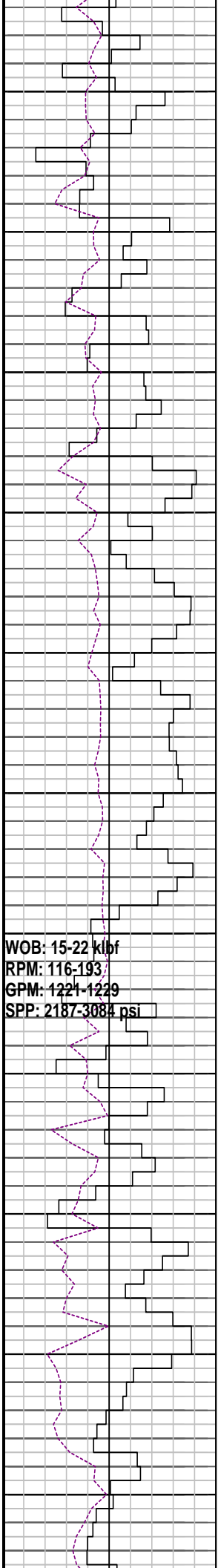
WOB: 4-22 kbf
RPM: 128-170
GPM: 1223-1224
SPP: 2254-3004 psi

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°



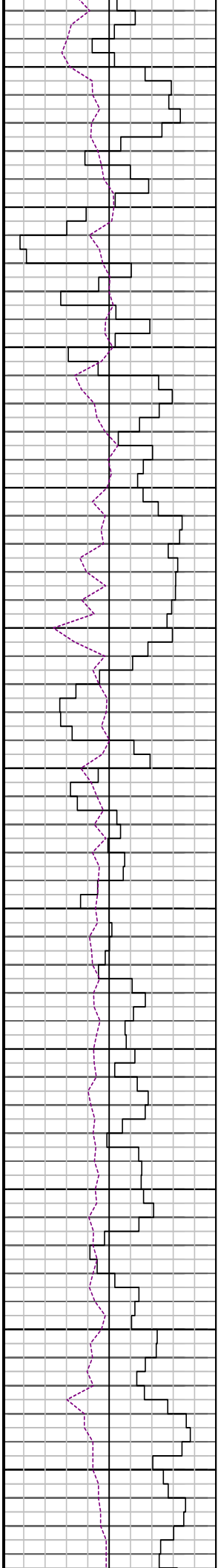


570
575
580
585
590
595
600
605
610
615
620

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

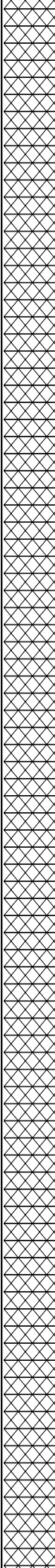
655

660

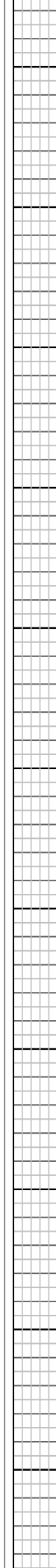
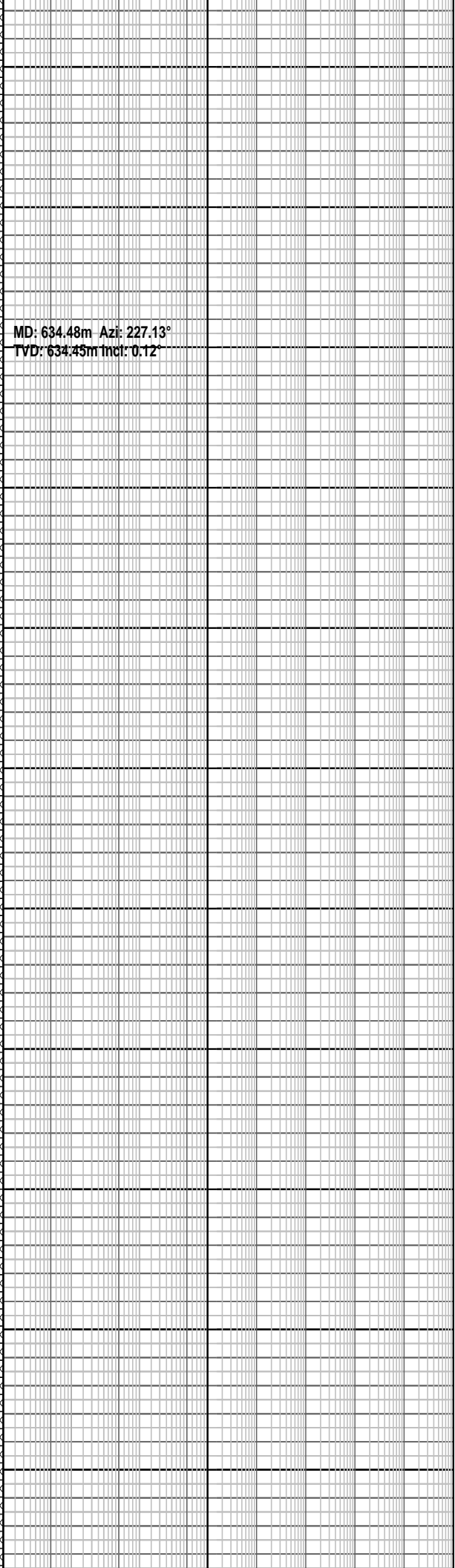
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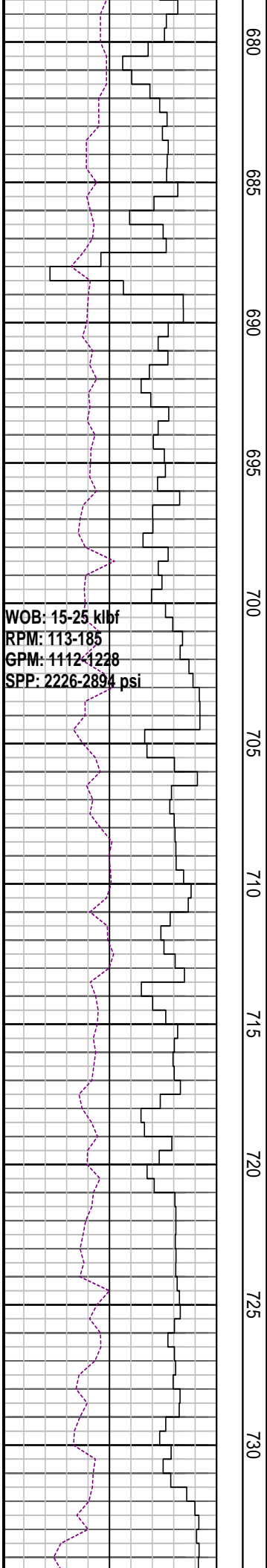
670

675



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



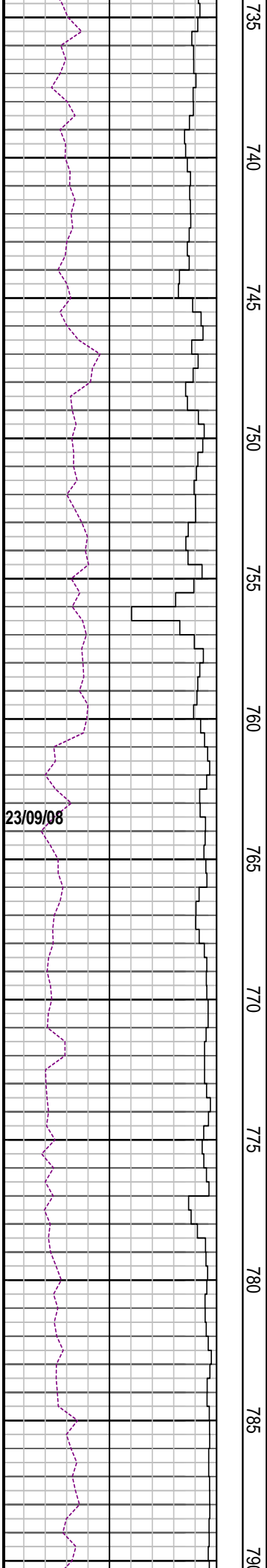


680
685
690
695
700
705
710
715
720
725
730

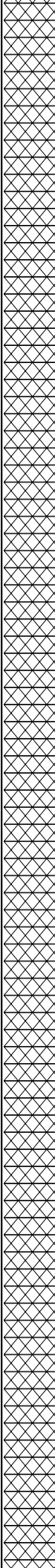
MD: 698.14m Azi: 181.9°
TVD: 698.11m Incl: 0.30°

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 klf
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

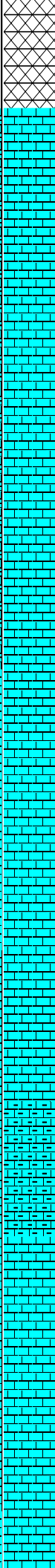
MW: 8.7 ppg FV: 153
PV: 24 YP: 40
Gels: 10/12/12 pH: 9.0

24-26/09/08

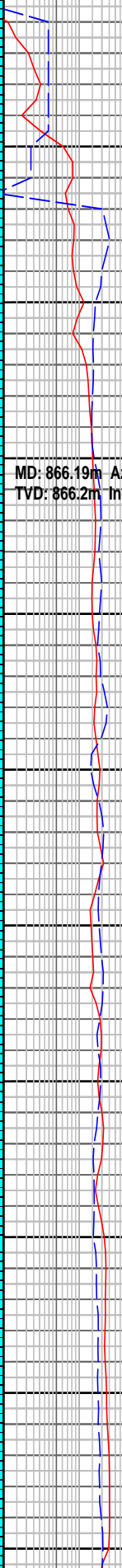
NB3: 311mm (12-1/4")
Make: Reed
Type: PDC/RSR 616M-A10
Jets: 3x13,3x14
Depth In: 850.0m
Depth Out: 2859.0m
Drilled 2009.0m in 74.8hrs
Grade: 3-4-RO-N-X-I-BT-PR

WOB: 5-25 klb
RPM: 70-142
GPM: 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°



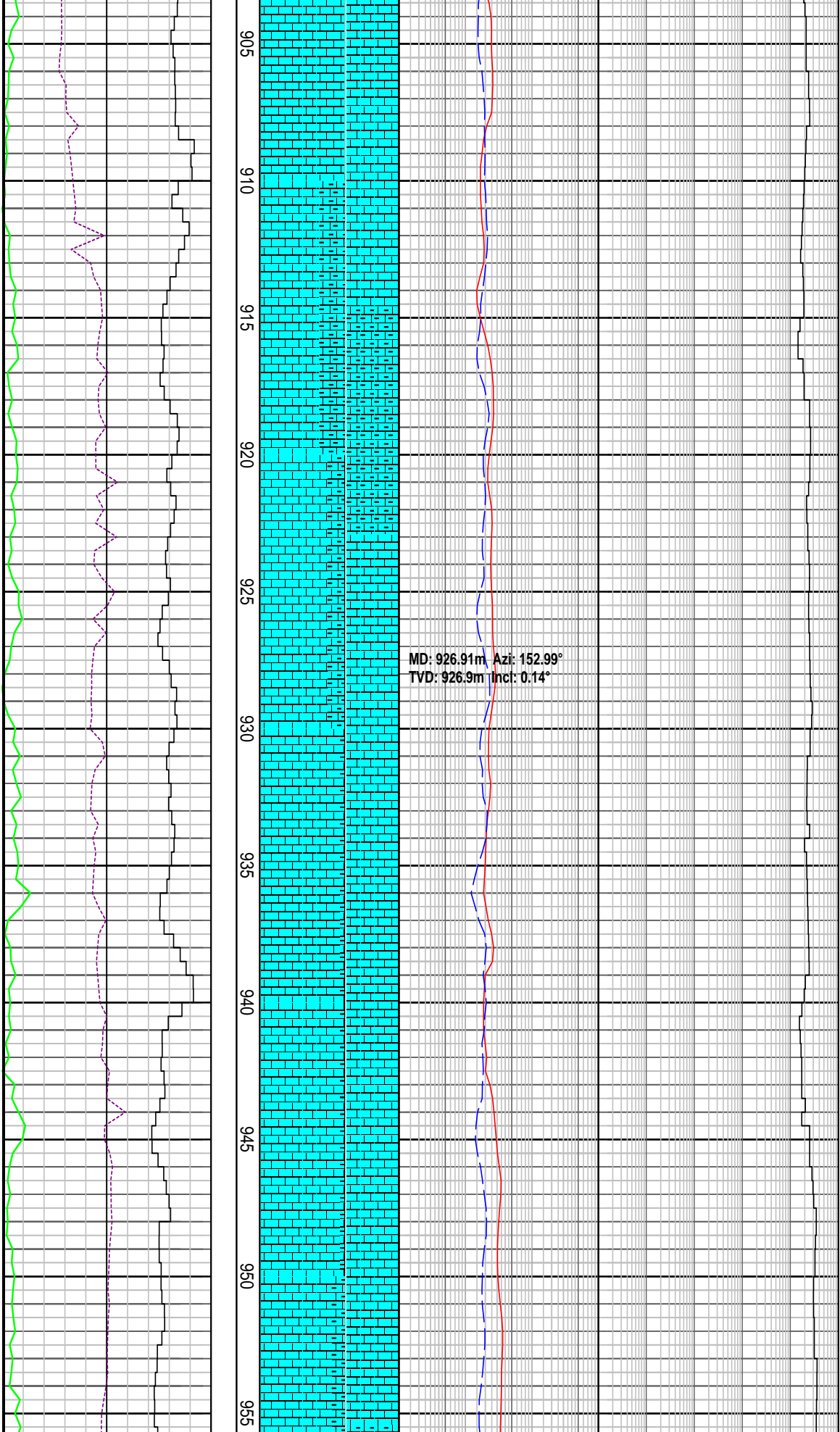
LOT @ 853.0m with 8.8 ppg
EMW: 15.06 ppg @ 900 psi

CALCULITE 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 blk, mod hd, f gr, trnsi sb
ang cal

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

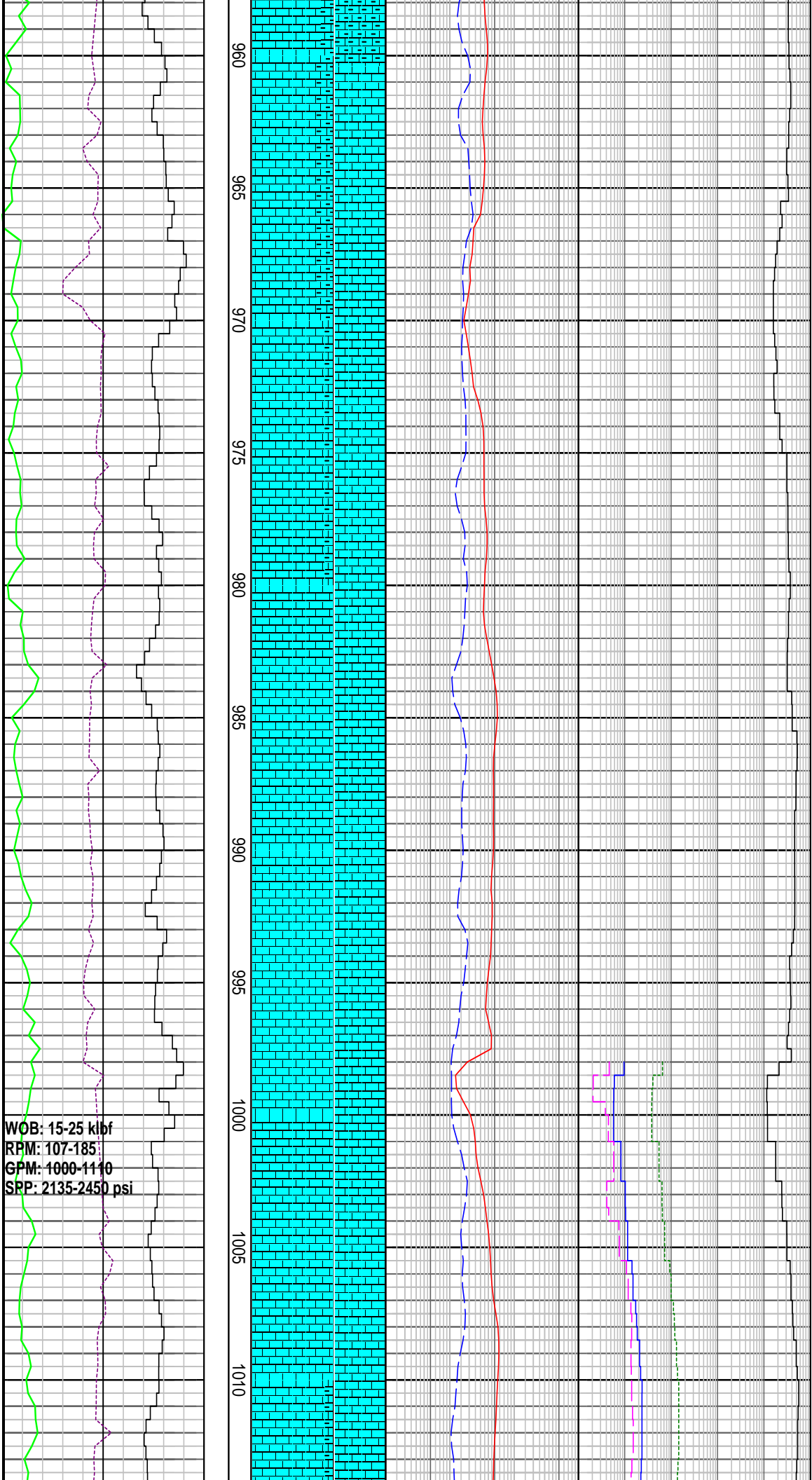
GRM: 840-1110
SPP: 1675-2470 psi



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



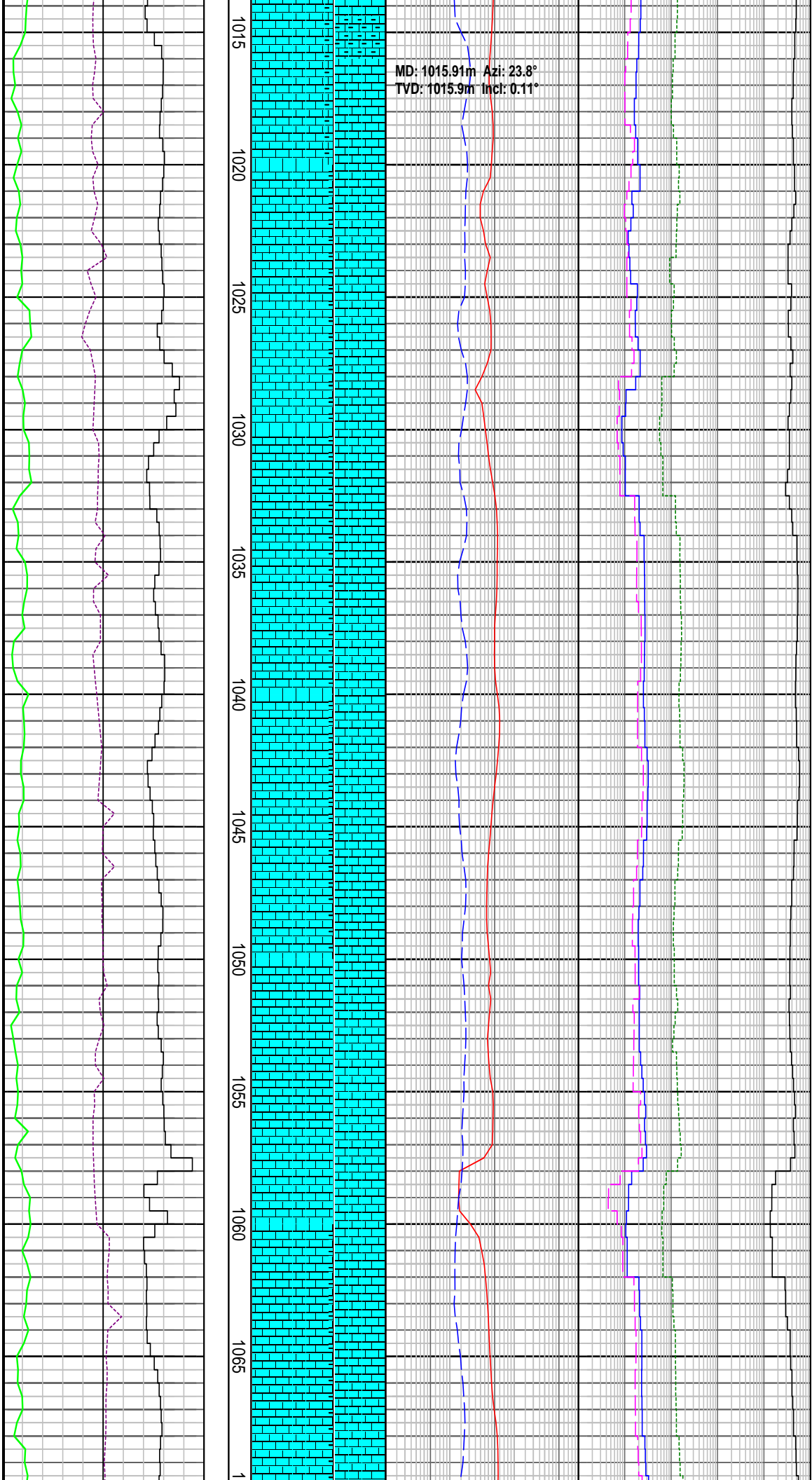
WOB: 15-25 klbf
 RPM: 107-185
 GPM: 1000-1140
 SPP: 2135-2450 psi

CALCULITE 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 calc, calc cmt

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

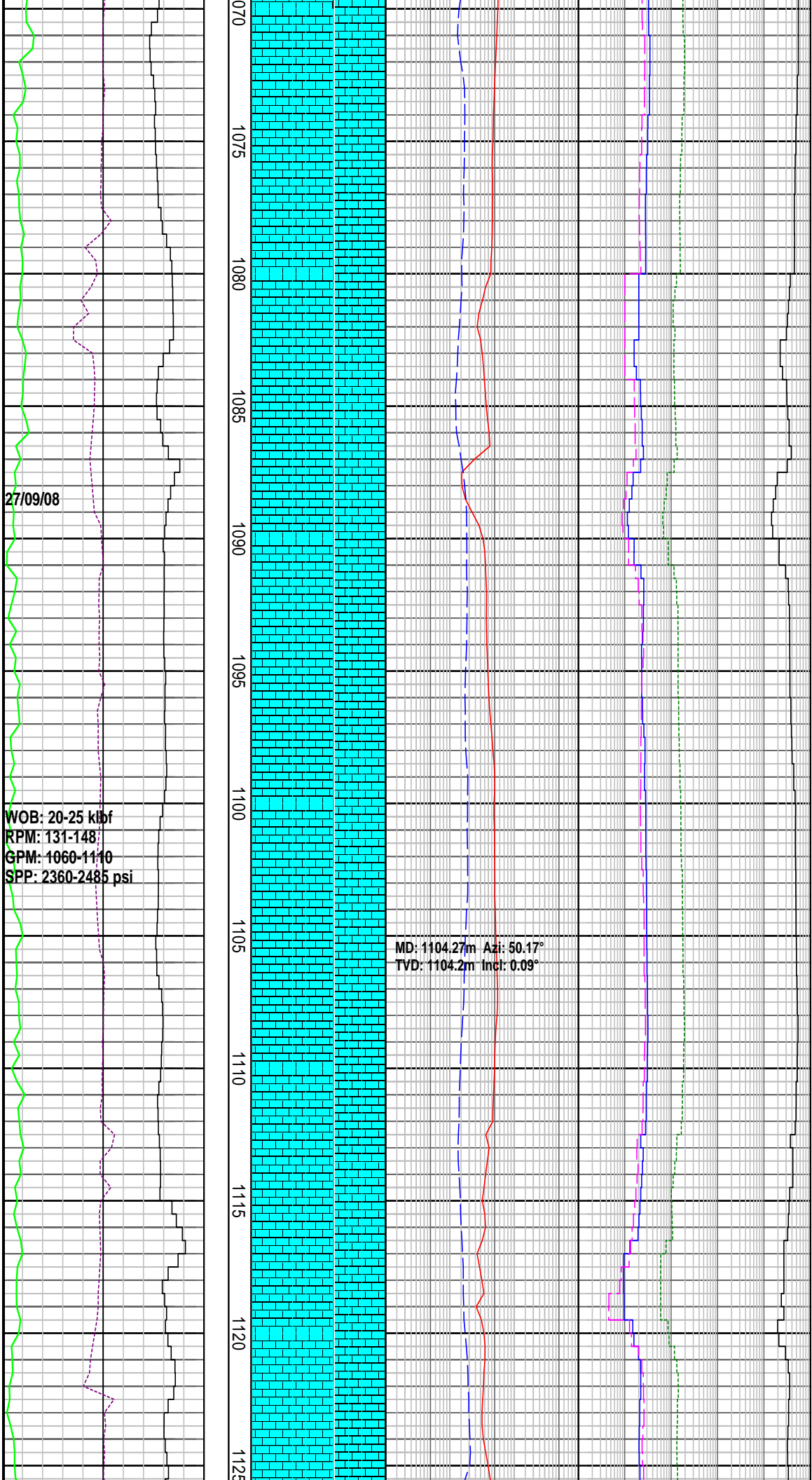
MW: 8.8 ppg	FV: 70
PV: 16	YP: 36
Gels: 13/20/23	pH: 8.5



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

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

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



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

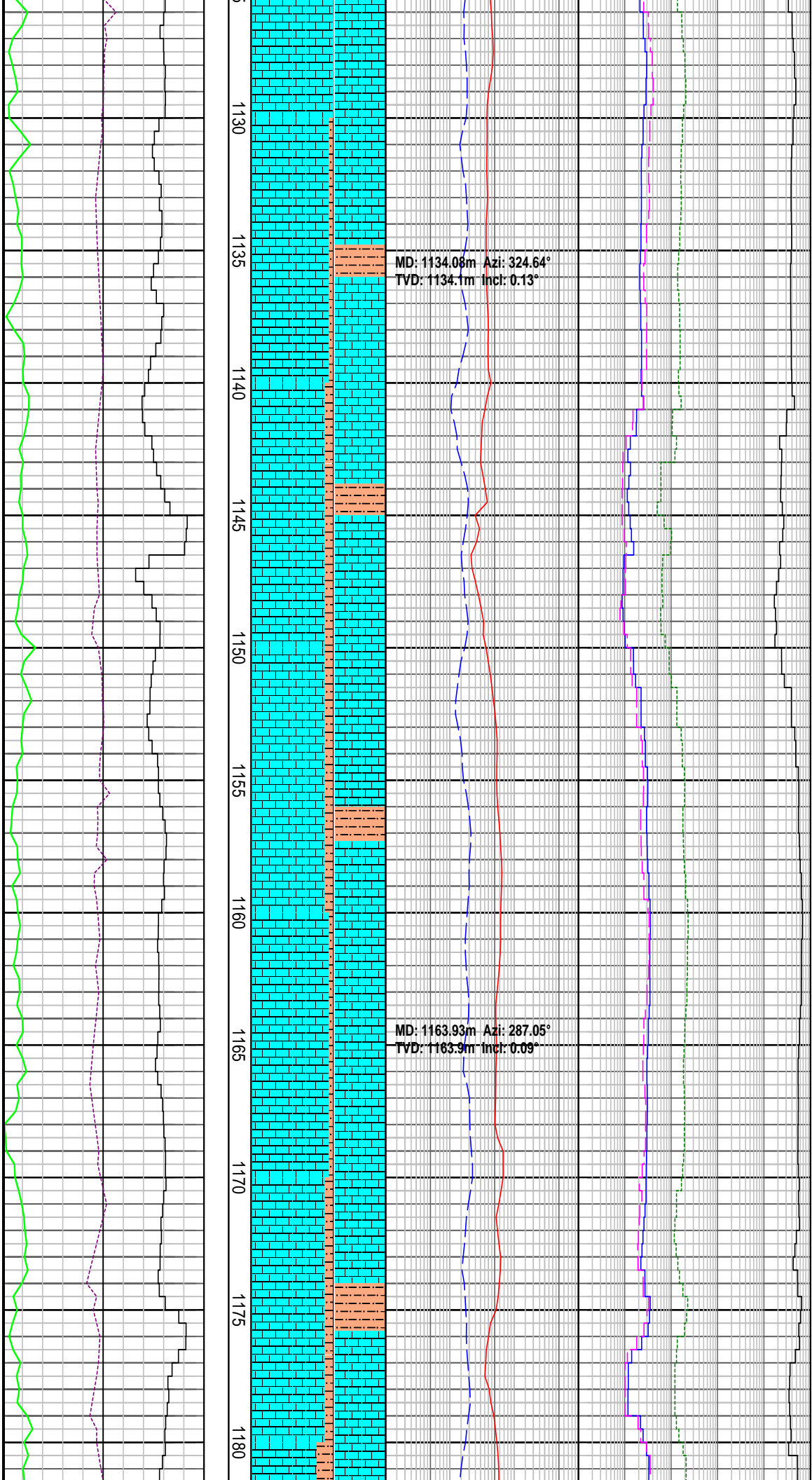
CALCARENITE : It olv gy-m gy,
 sbrndd-blky, mod hd, f gr, mod srt,
 trnsl sb ang

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



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

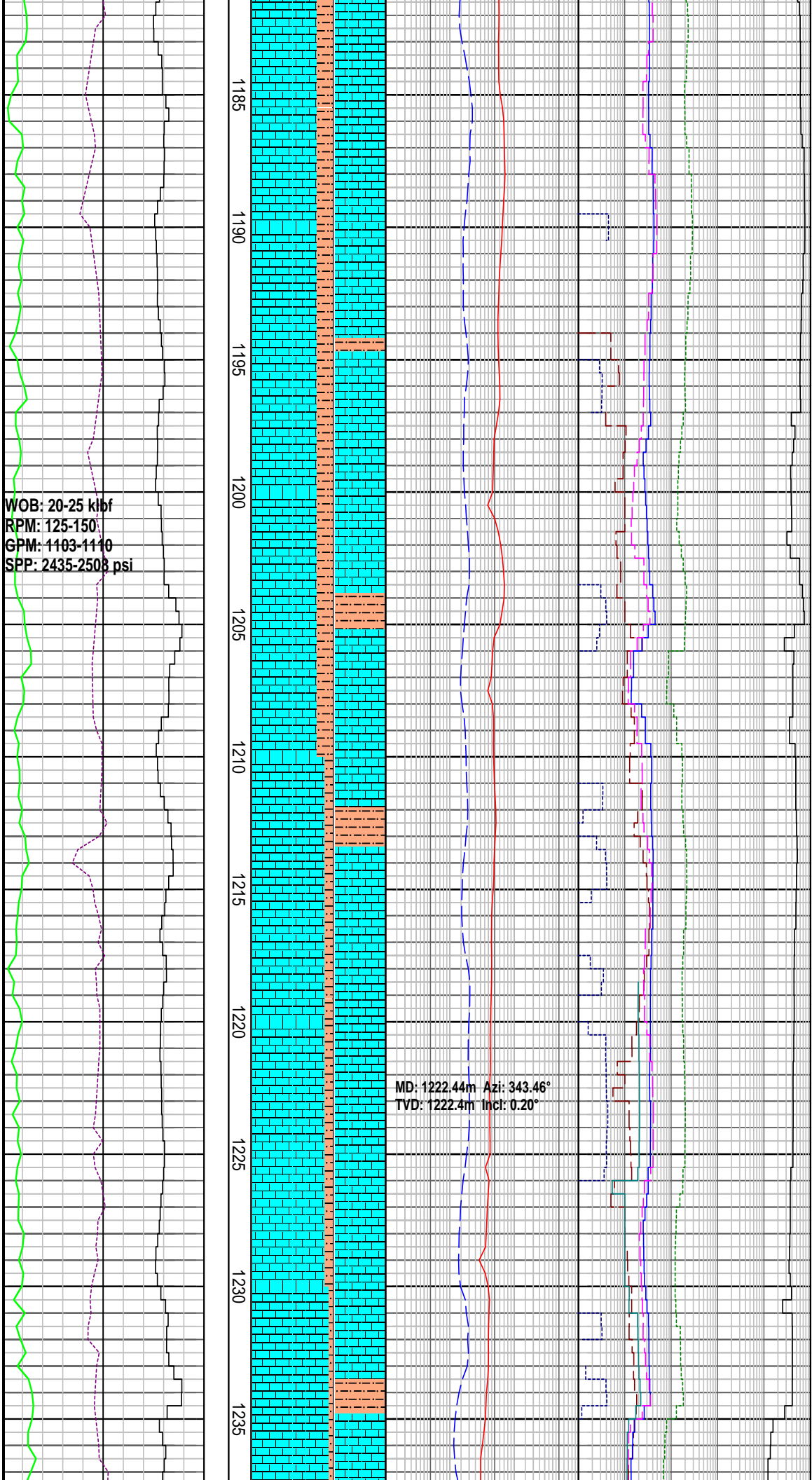
MD: 1163.93m Azi: 287.05°
TVD: 1163.9m Incl: 0.09°

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

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

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

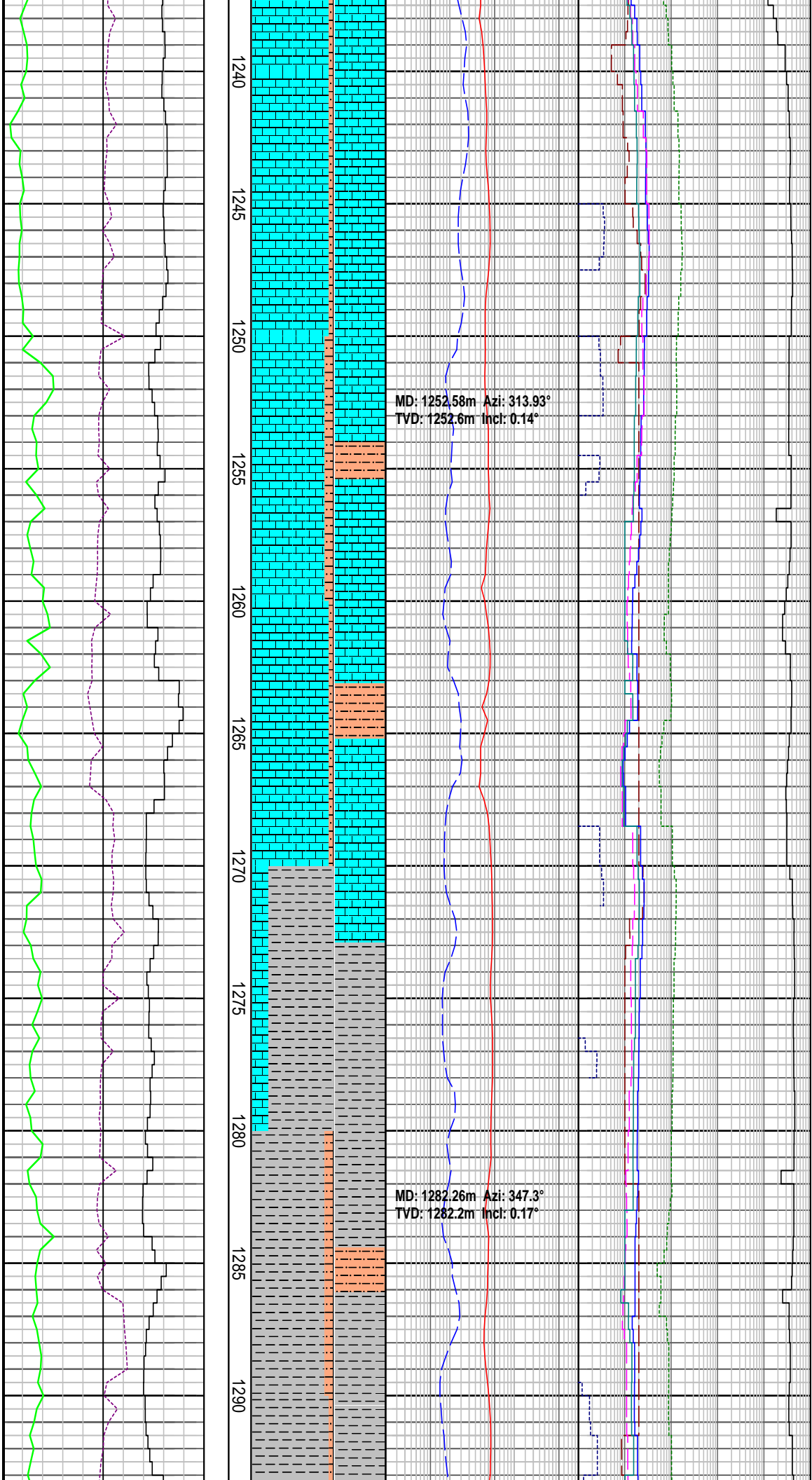
SILTSTONE: lt brn-dk brn, frm-mod
hd, blky, mod calc



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



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

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

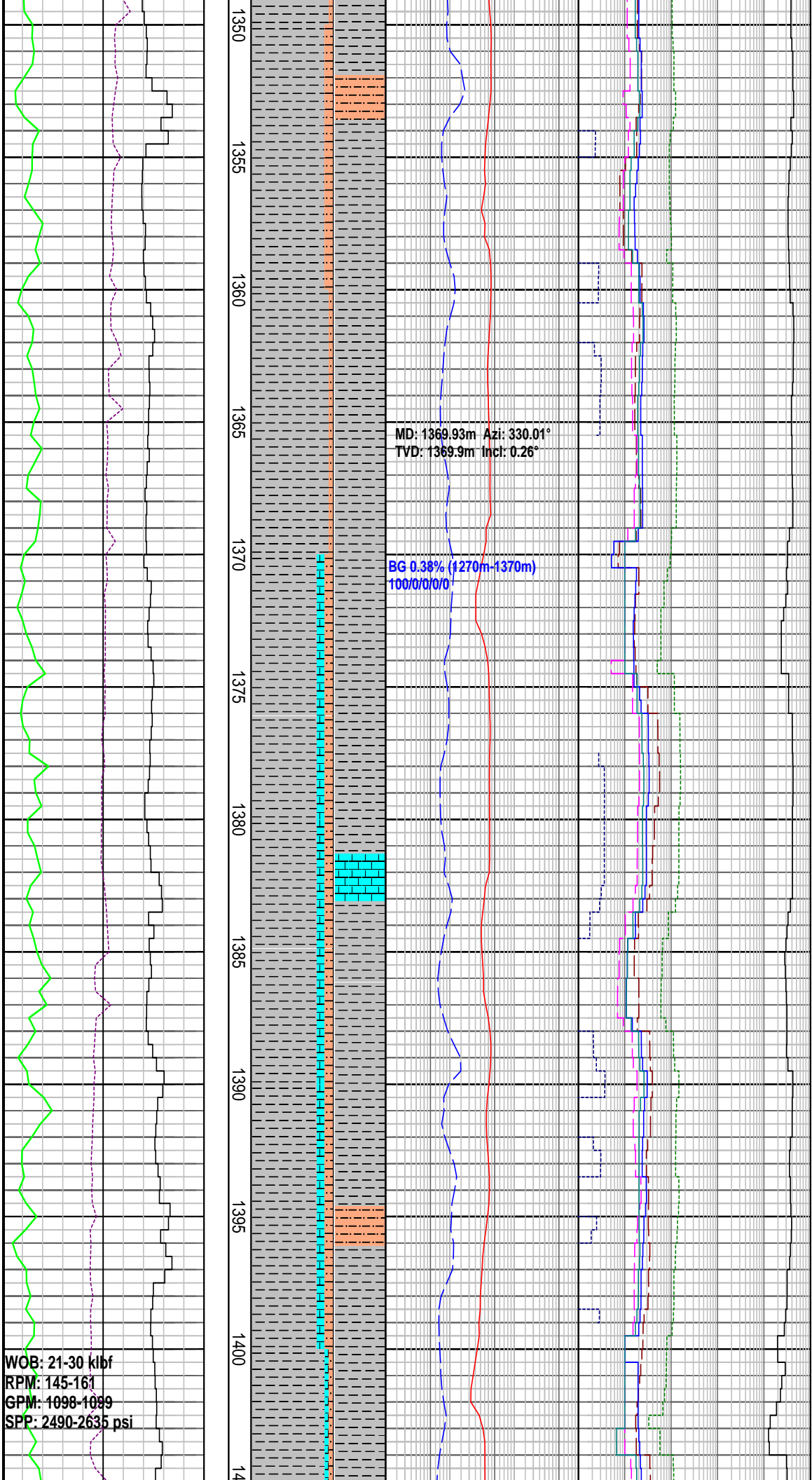
1295
1300
1305
1310
1315
1320
1325
1330
1335
1340
1345

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,
sbbkly-blky, sli slty, mod-hi calc, tr
mic flks, grdg to ClcIt

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



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

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

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

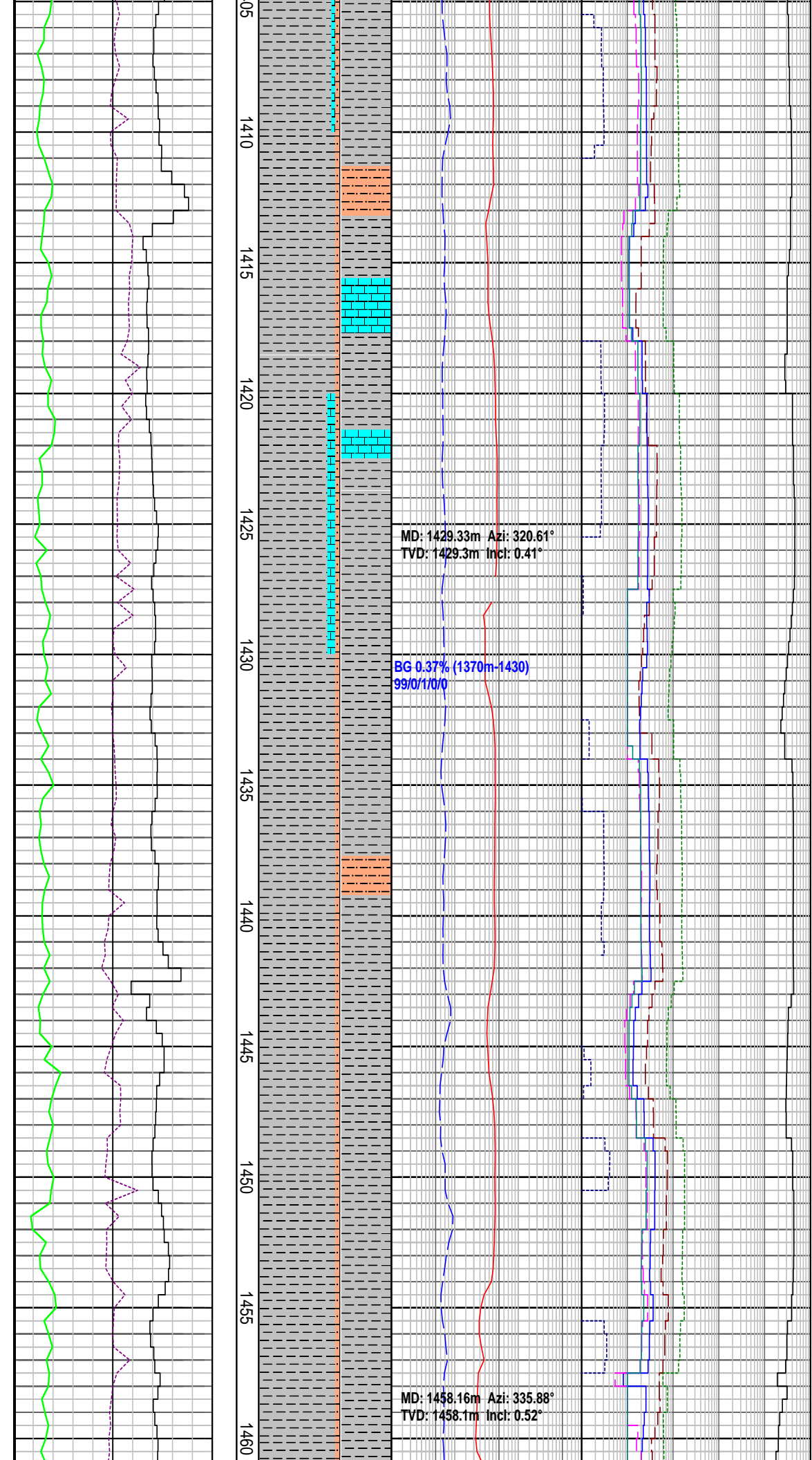
CALCAREOUS CLAYSTONE: dk gy-dk olv gy, sft-mod frm, sbblky-blky, sli slty, mod-hi calc, tr mic flks, grgd to Clclt

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

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

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

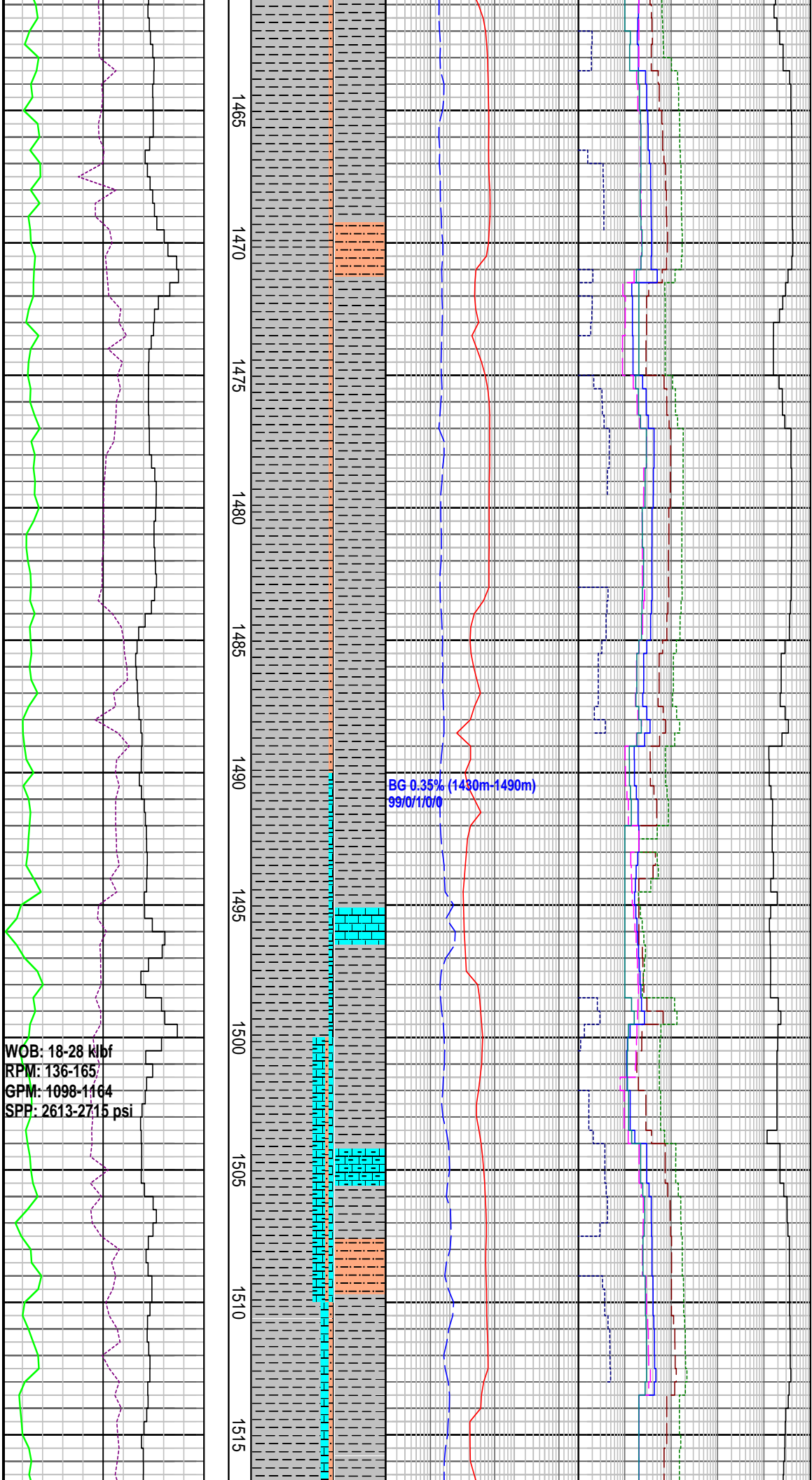
1350
1355
1360
1365
1370
1375
1380
1385
1390
1395
1400
14



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

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

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



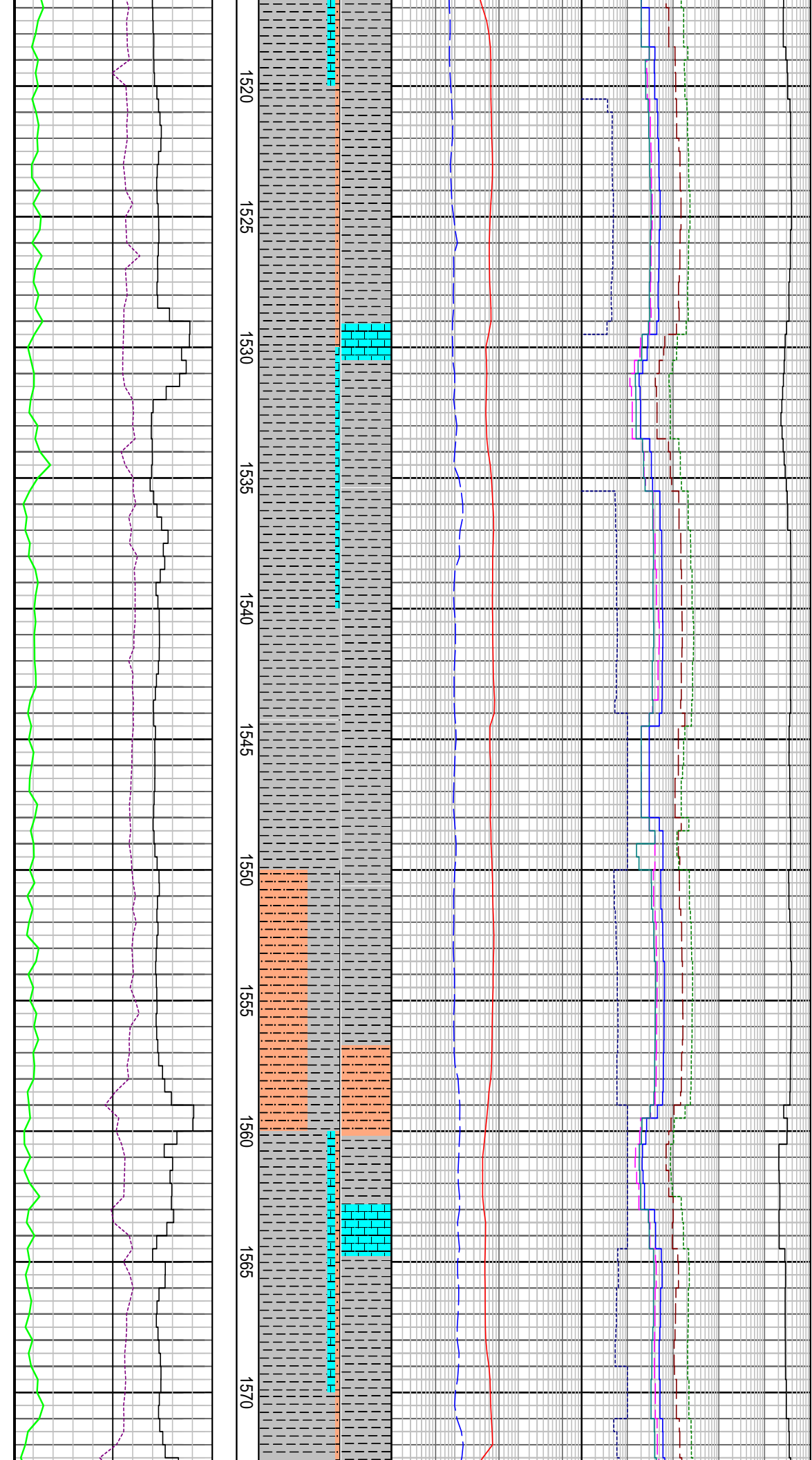
CALCAREOUS CLAYSTONE: dk gy-dk olv gy, sft-mod frm, sbbiky-blky, sli slty, mod-hi calc, tr mic flks, grdg to ClcIt

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

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

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

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

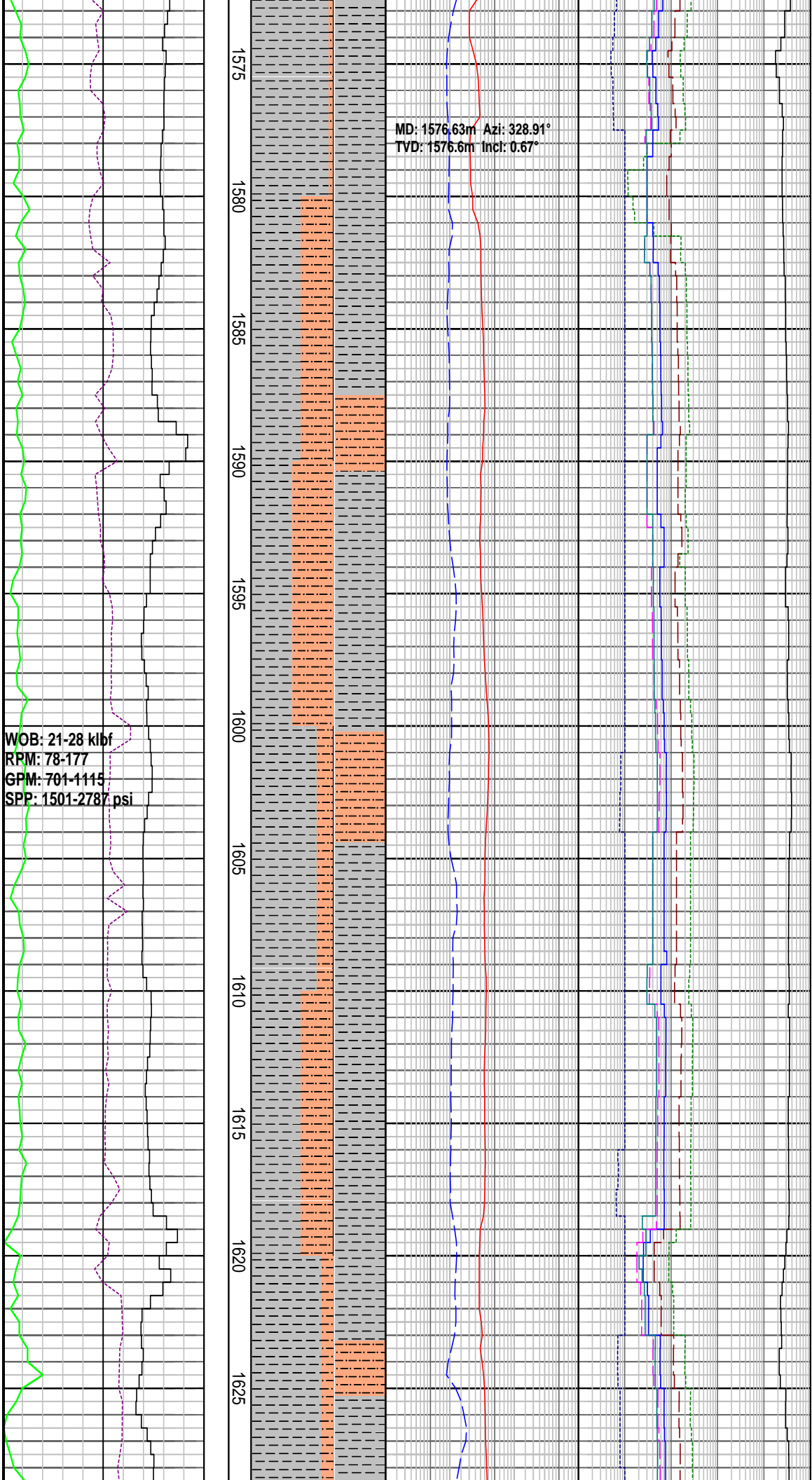


LIME STONE : gy yel, mod hd Ls, xln calc mnr wh sft amor Ls, tr shl frag

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



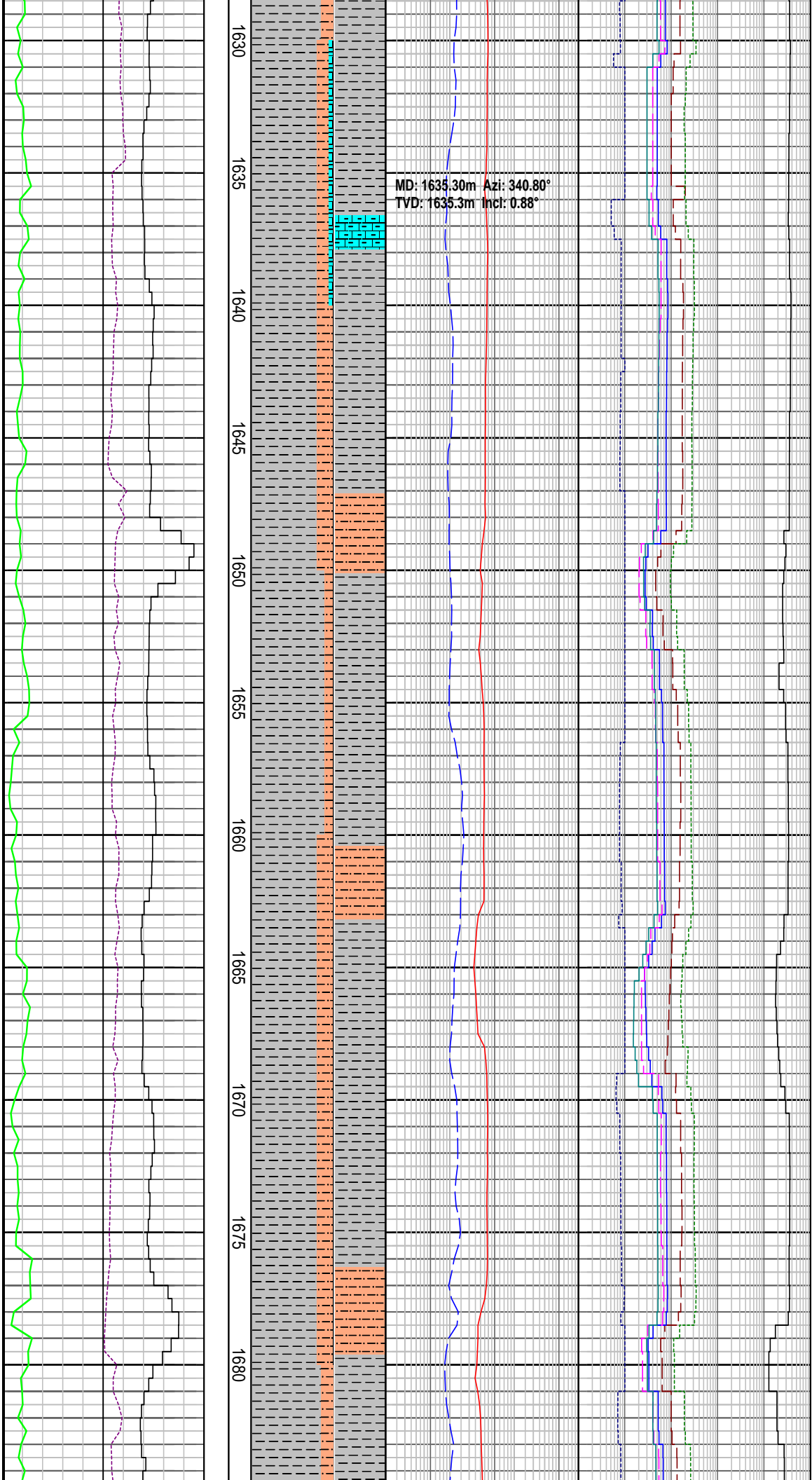
MD: 1576.63m Azi: 328.91°
TVD: 1576.6m Incl: 0.67°

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 flks, grdg to ClcIt

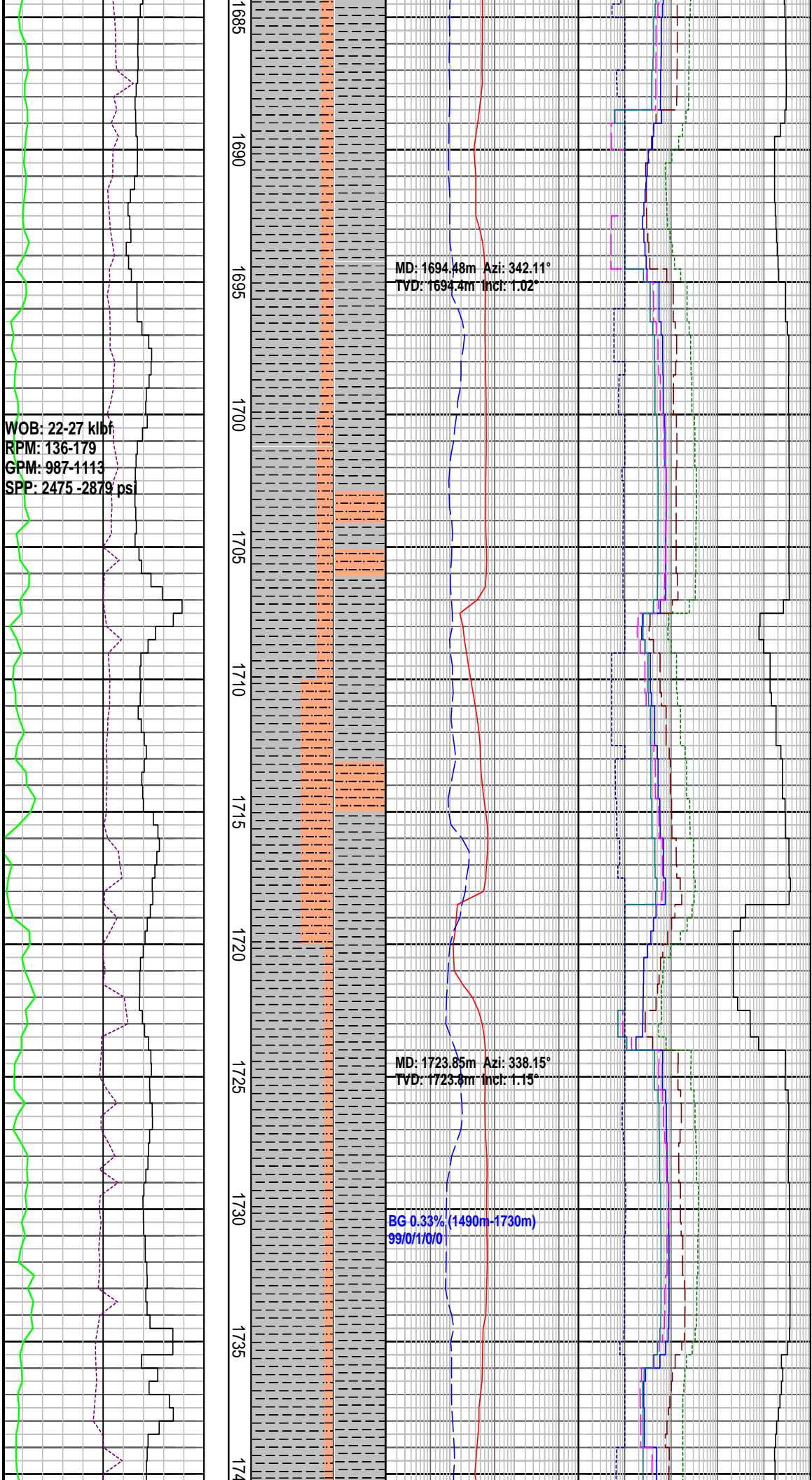
SILTSTONE: m gy-gnsh gy, frm-hd, blky, arg mod calc, tr blk carb lam



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

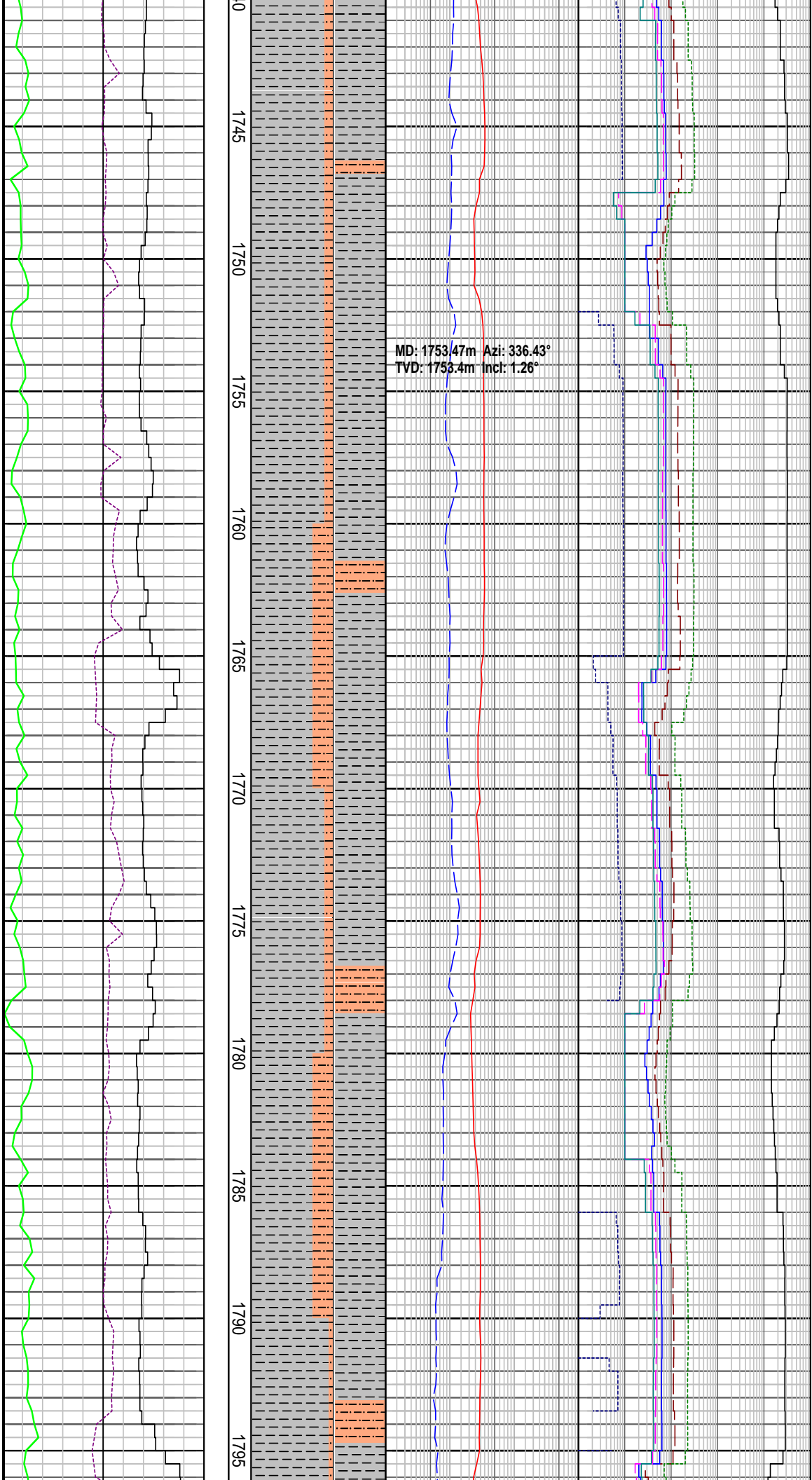
SILTSTONE: m gy-gnsh gy, frm-hd,
blky, arg mod calc, tr blk carb lam

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



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

CALCAREOUS CLAYSTONE: m lt gy-m gy, sft-mod frm, sbbky-blky, sli stly, mod-hi calc, tr mic flks, com grdg to clcst



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

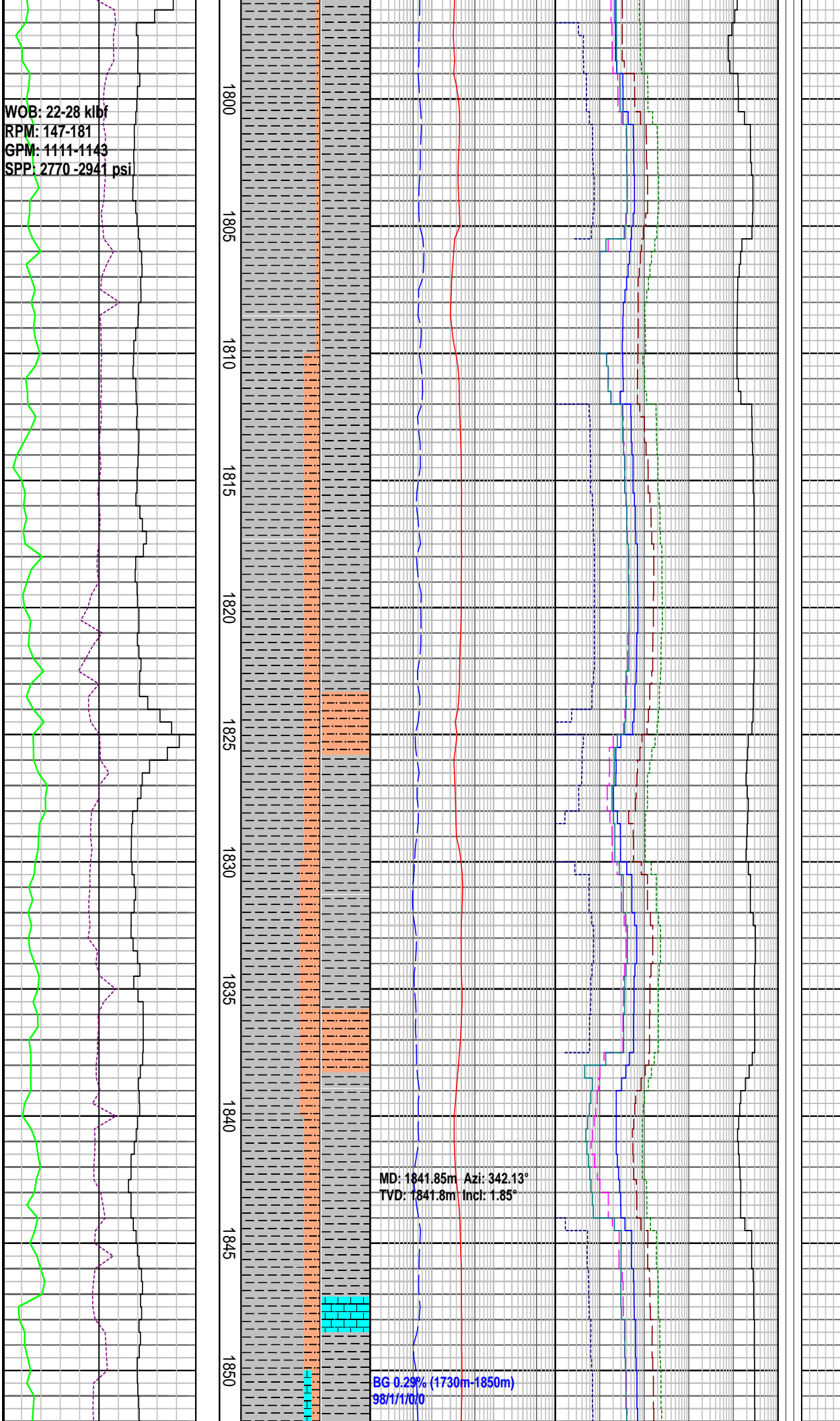
SILTSTONE: m gy-gnsh gy, frm-hd, blky, arg mod calc, tr blk carb lam, tr pyr

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, sbbly-blky, sli stly, mod-hi calc, tr mic flks, com grd to clct

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

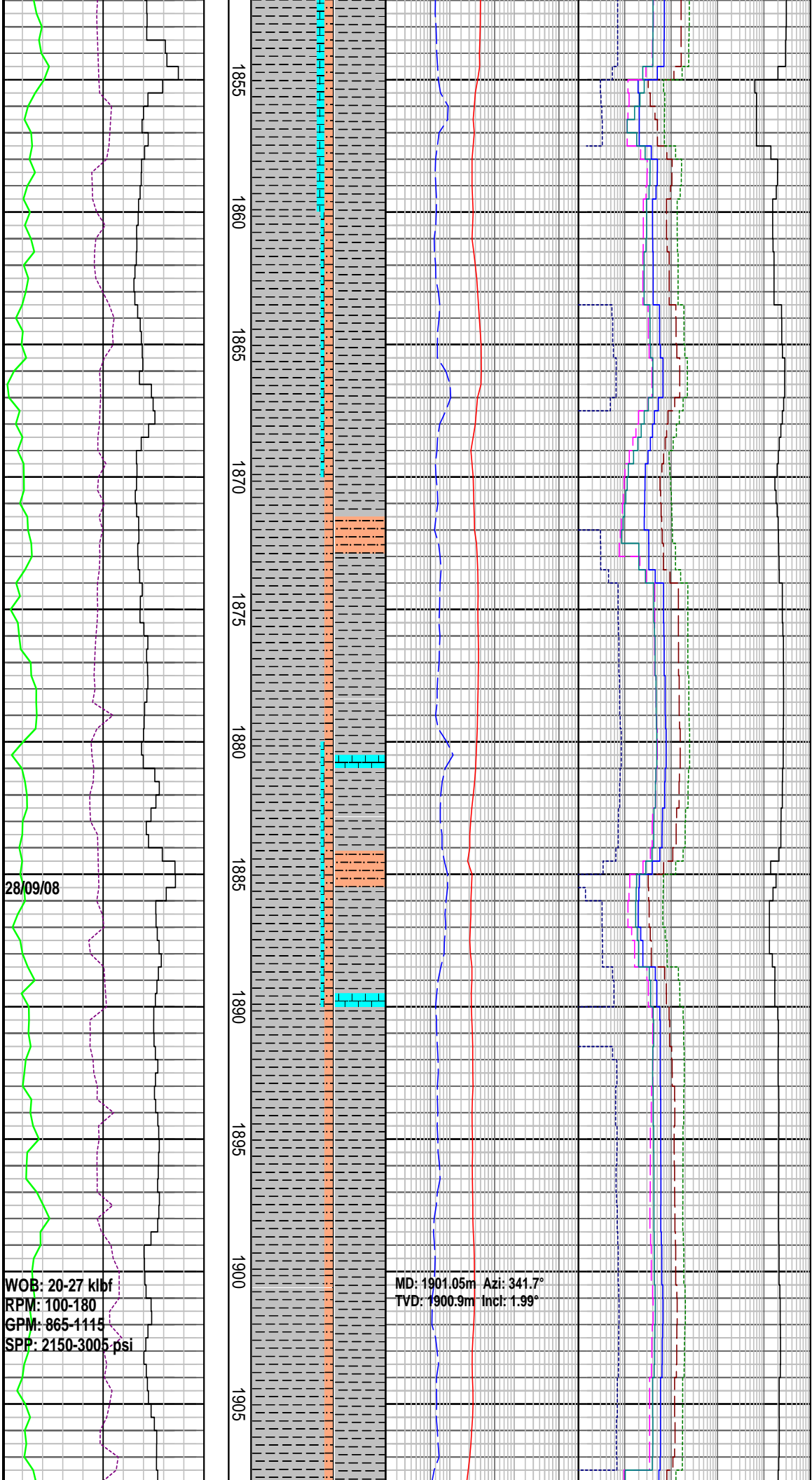


SILTSTONE: m gy-gnsh gy, frm-hd, blk, arg mod calc, tr blk carb lam

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, sbbkly, sft frm-amor hd, f gr, mod srt, opq sbang-sbrndd cak, tr com gr f-med gr glau, pr inf por

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

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

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

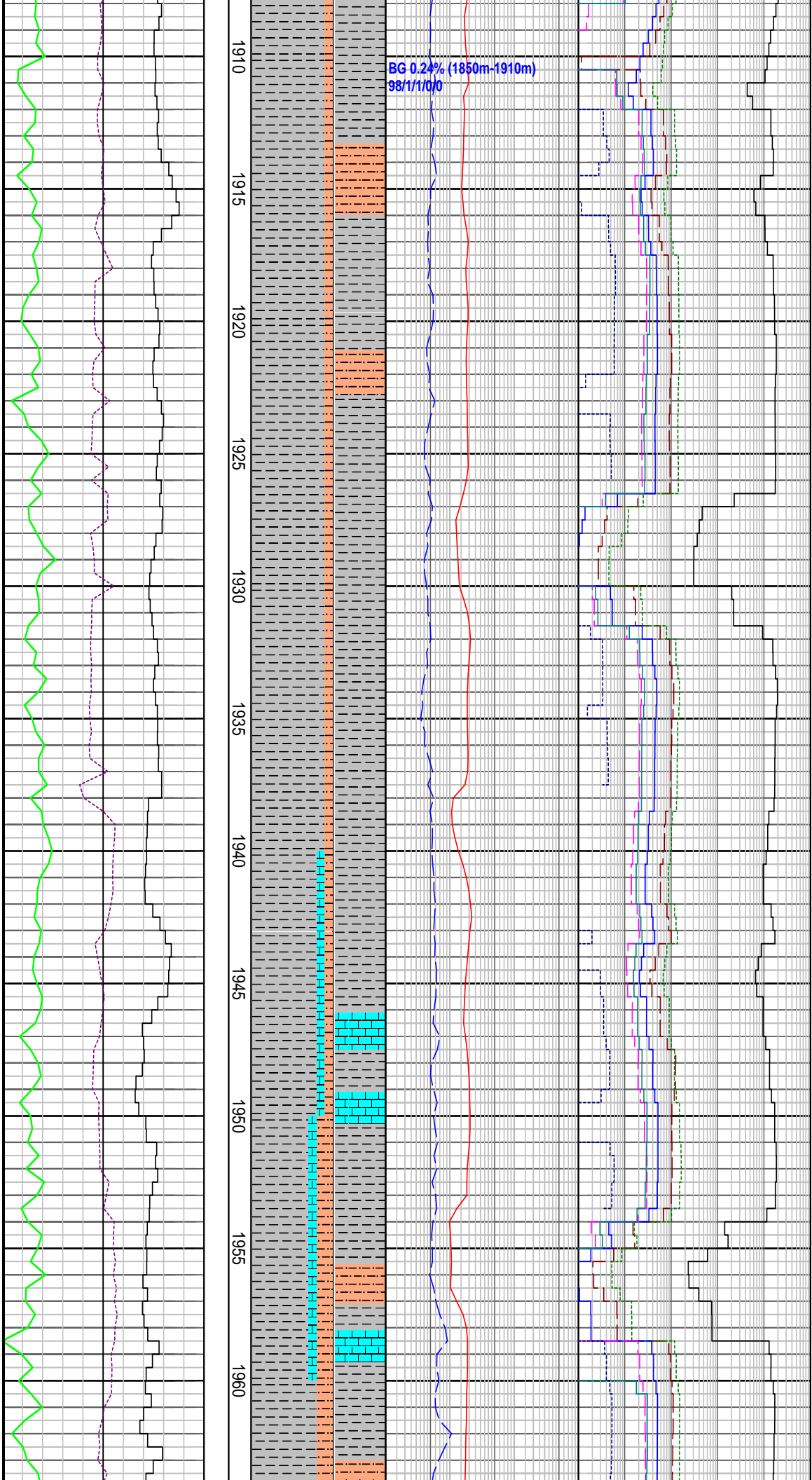
28/09/08

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°

1855
1860
1865
1870
1875
1880
1885
1890
1895
1900
1905

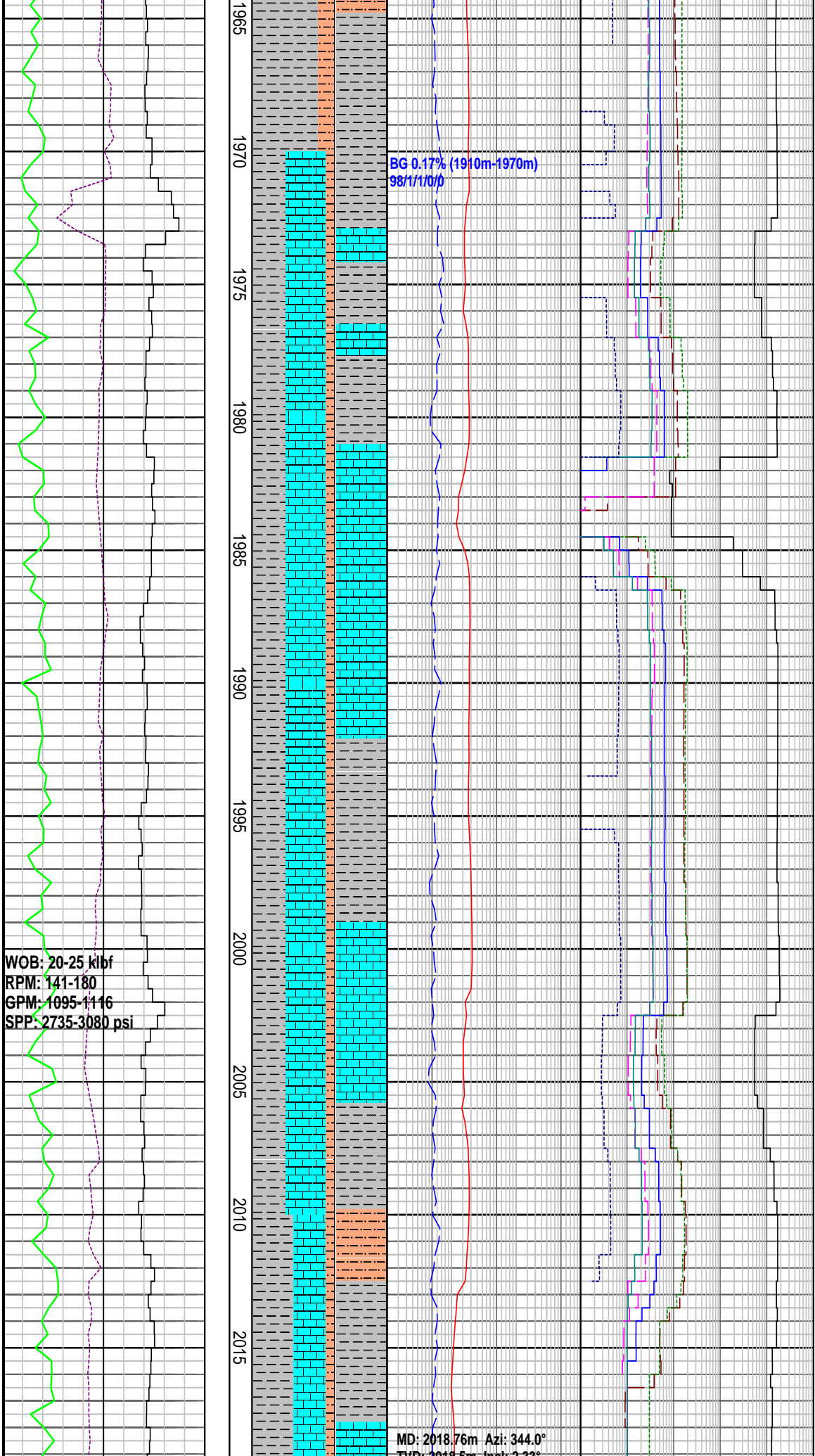
med hi calc, gray to blk, tr tan



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

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

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



BG 0.17% (1910m-1970m)
9811100

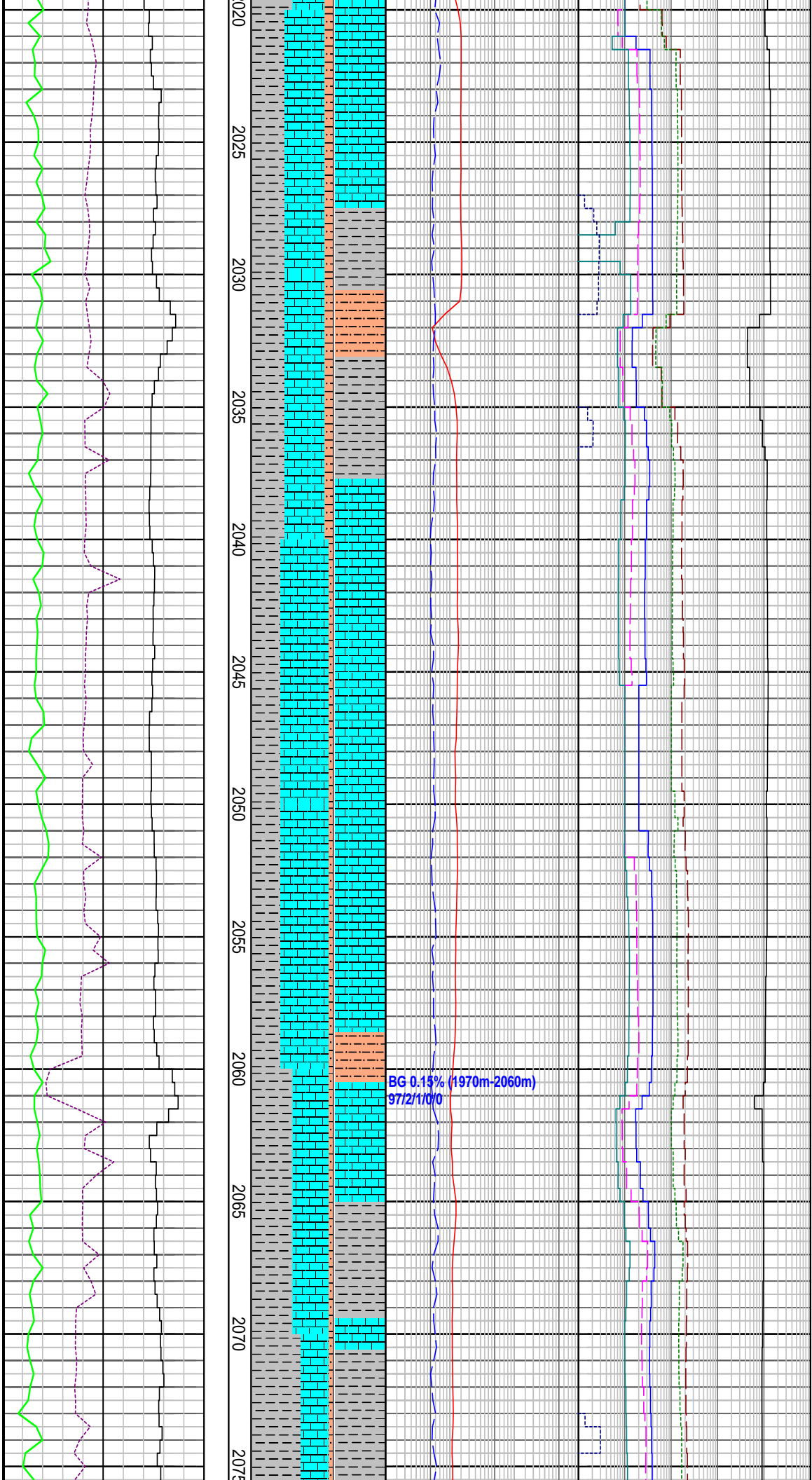
WOB: 20-25 klbf
RPM: 141-180
GPM: 1095-1116
SPP: 2735-3080 psi

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

CALCULITE: 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, sbblky, com cal slt

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

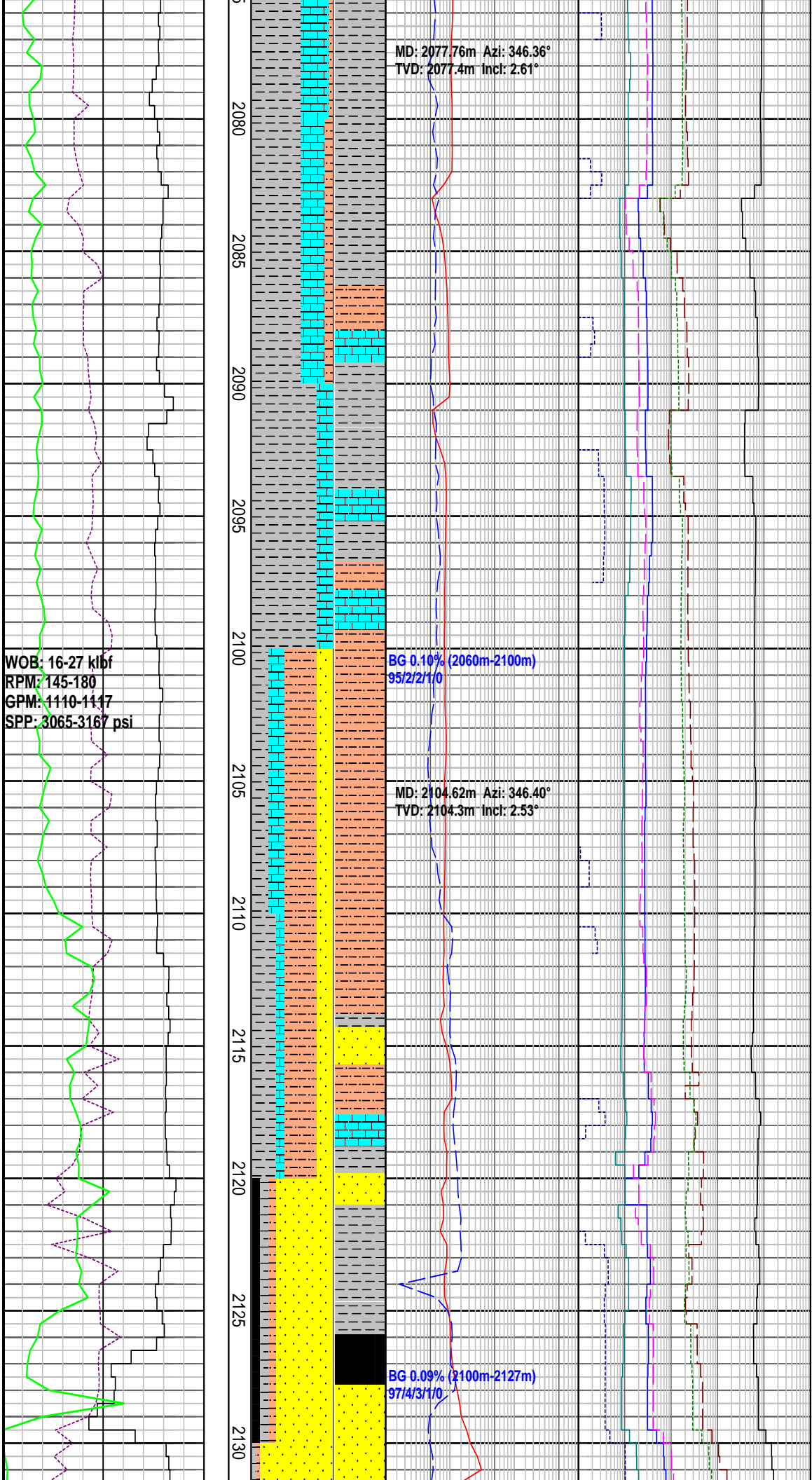
CLAYSTONE : m lt gy-m gy, mod frm, sbblky-blky, sli slt, tr mic flks, tr carb flks, mod-hi calc, tr blk carb lam

CALCULITITE: lt olv gy-lt gy, sft frm, sbblky, 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, sbblky-blky, sli slty, tr mic, tr carb flks, mod-hi calc i/p, grdg to Clclt, tr foam

BG 0.13% (1970m-2060m)
97/2/1/0/0



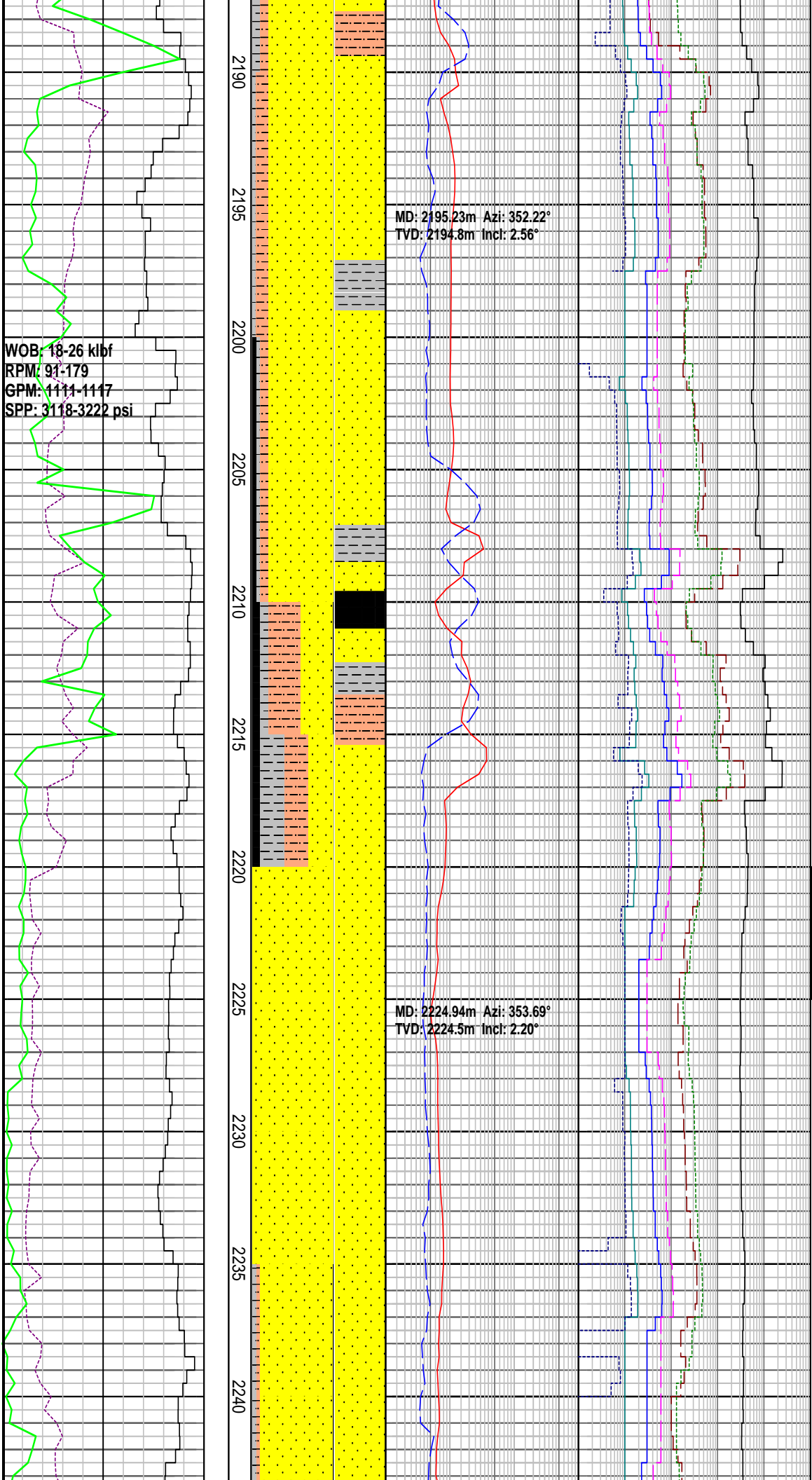
CLAYSTONE: m lt gy-m gy, mod frm, sbblky-blky, sli slty, tr mic, tr carb flks, mod-hi calc i/p, grdg to Clclt, tr foam

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 av-mod vel lse occ agg f ar



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

CLAYSTONE: lt-m gy, mod frm-hd, sbblk-bkly, 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, trnsl-fros qtz, broken i/p, tr lse f-granule pyr, tr pyr qtz

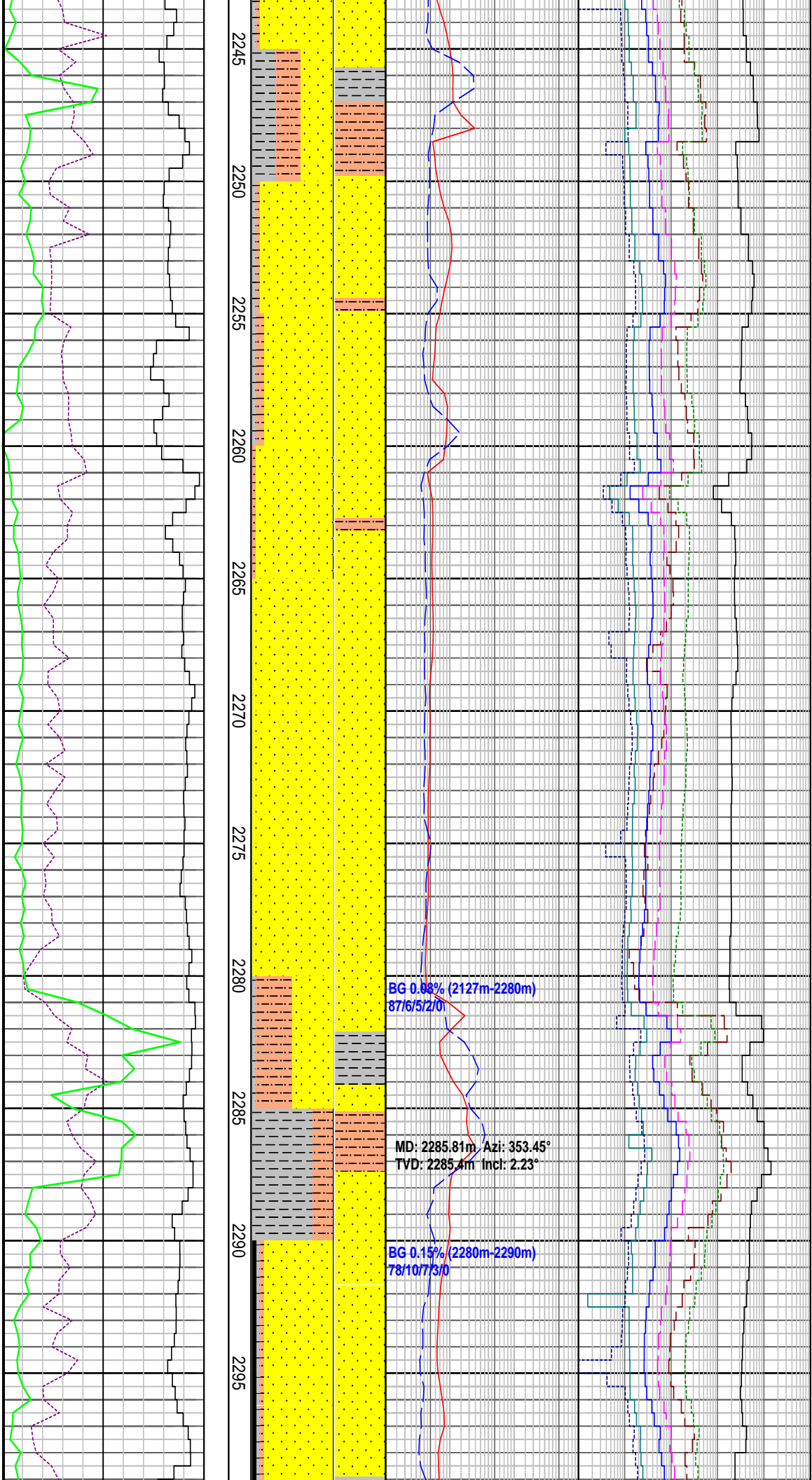
COAL : dk brn-blk, mod hd-hd, ang, planar-conch frac

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, sbrndd-rndd, 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, sbrndd-rndd, 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, sbrndd-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, sbbiky-blky, tr carb flks, tr mic flks, mod calc

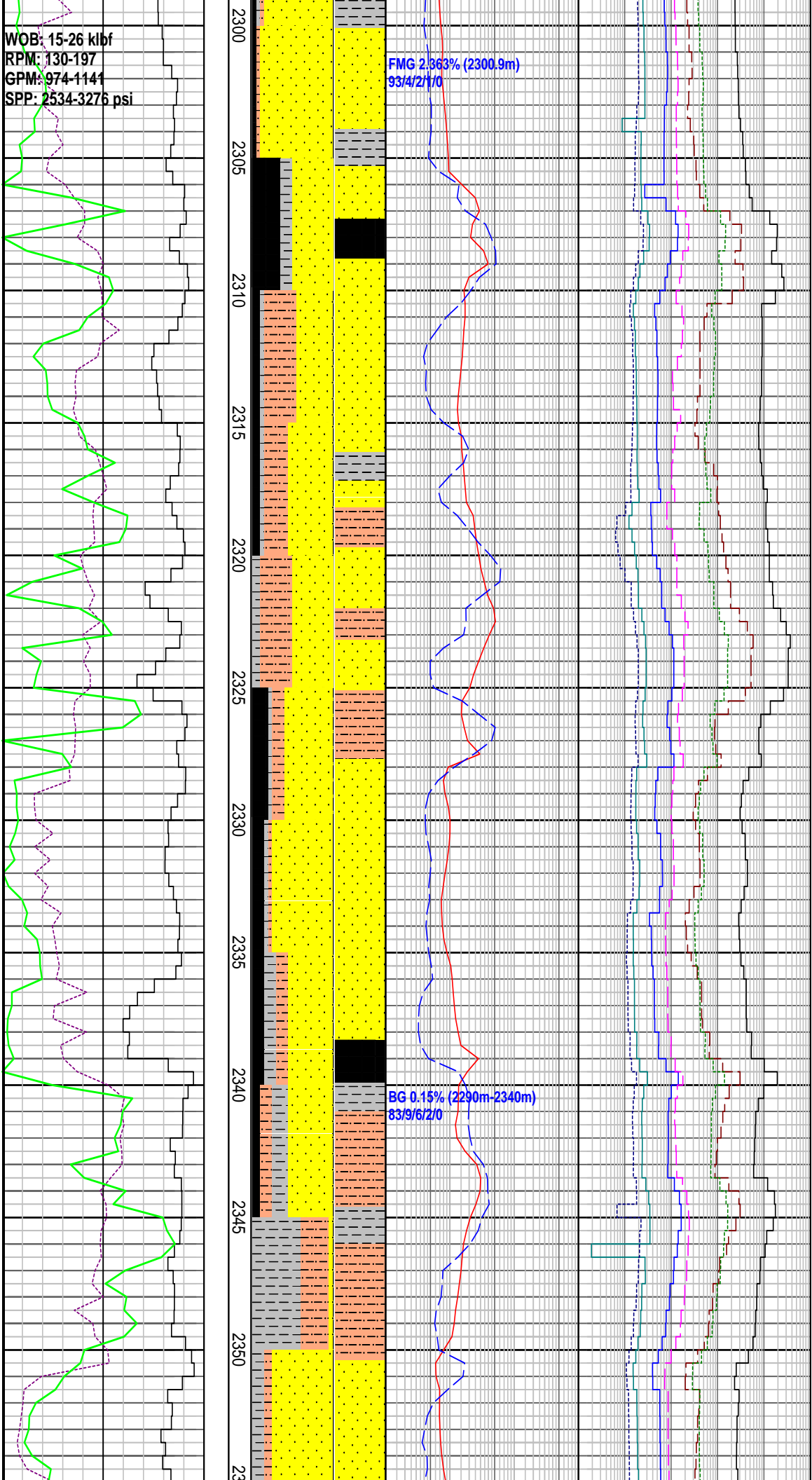
SILTSTONE: mod brn-olv gy, frm-hd, blk, arg, n calc

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

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

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

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



sbrndd-rndd, sbsph, trnsl-fros qtz, broken i/p

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

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

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

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

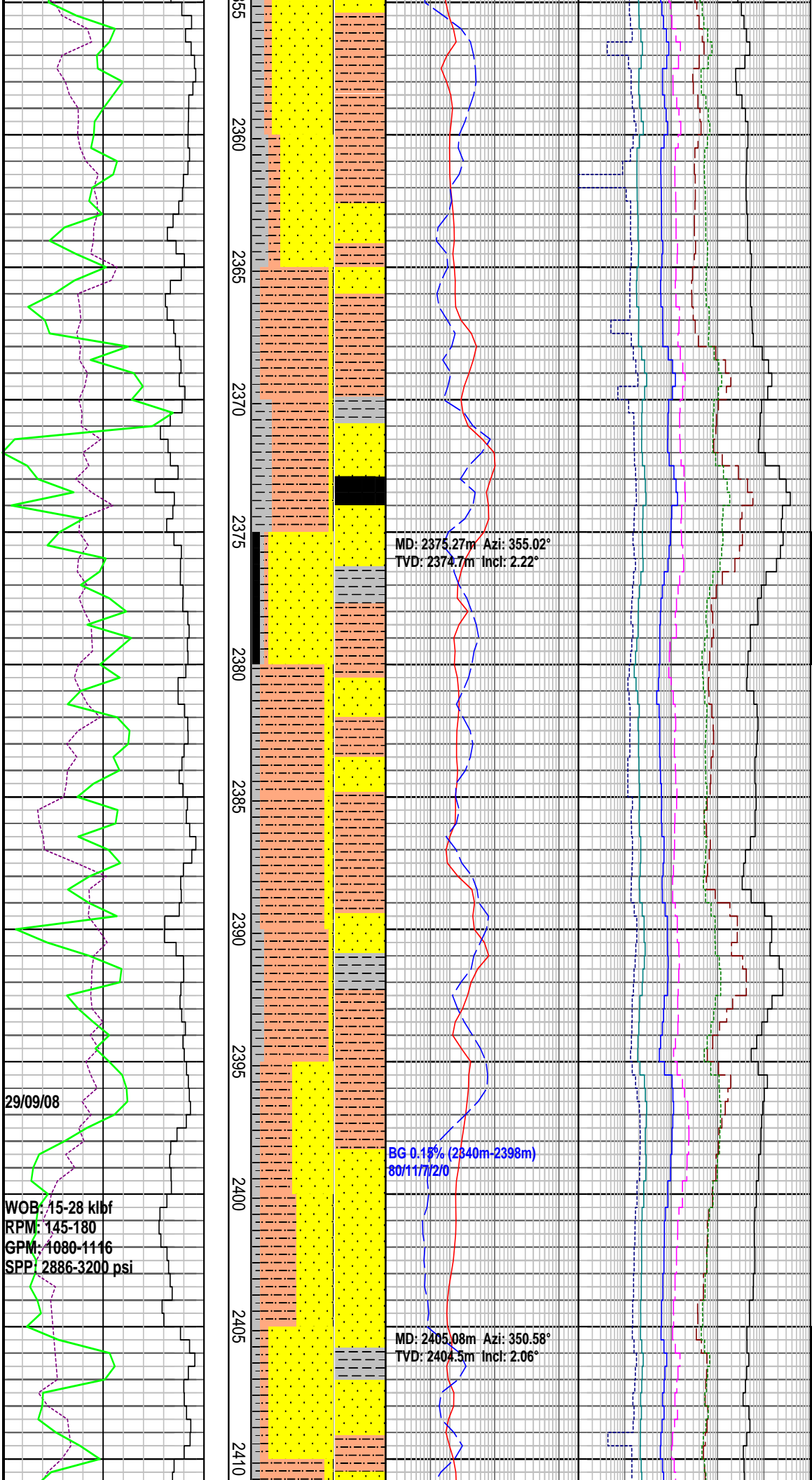
COAL : dk brn-blk, hd, ang, planar-conch frac

CLAYSTONE: lt gy- m gy, mod frm, sbblky-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, sbrndd-rndd, sbsph, trnsl-fros qtz, broken i/p

sbspn, trnsi-fros qtz, broken i/p



SANDSTONE: wh-lt gy, lse, m-crs, mod-wl srt, sbrndd-rnnd, sbspn, trnsi-fros qtz, broken i/p

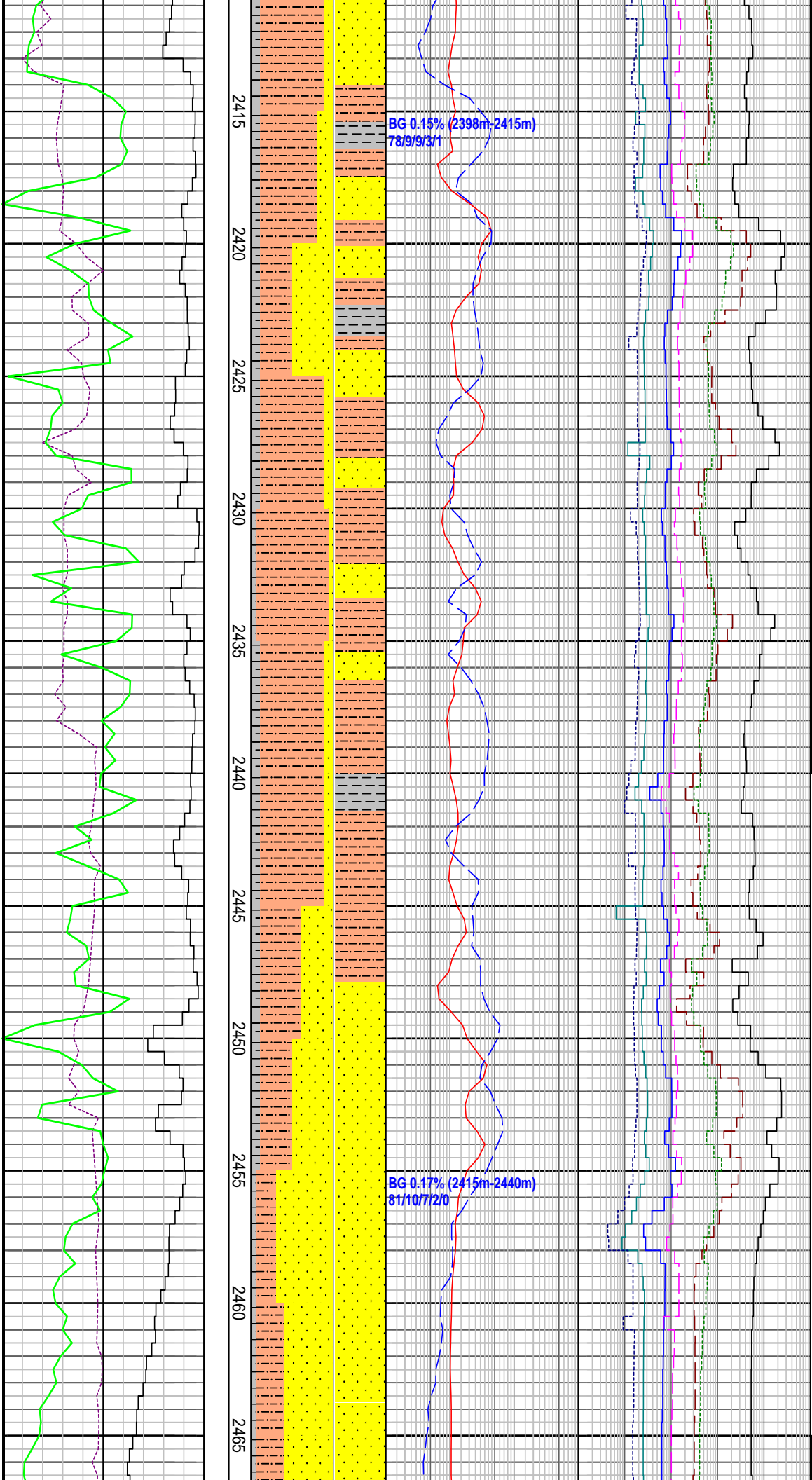
SILTSTONE: mod olv brn-dk gy, frm-hd, blk, arg-carb, n calc

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



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

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

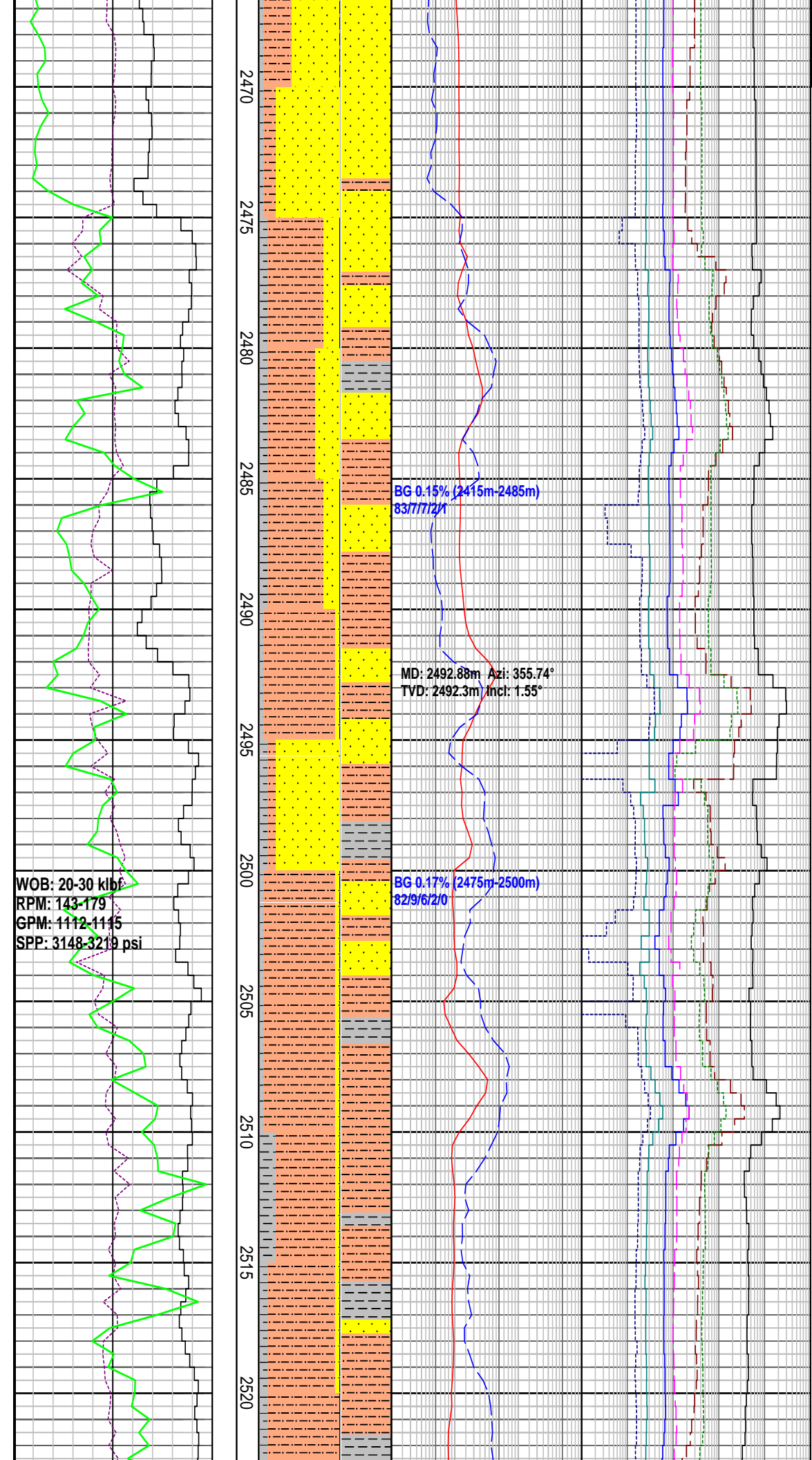
SANDSTONE: lt-m gy lse f
lower-crs lower, dom m sd, pr-mod
srt, sbang-sbrndd clr-frs qtz, tr qtz
granules, tr calc m sst, tr xln pyr

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,



WOB: 20-30 klbf
 RPM: 143-179
 GPM: 1112-1145
 SPP: 3148-3219 psi

BG 0.15% (2415m-2485m)
 837/772/1

MD: 2492.88m Azi: 355.74°
 TVD: 2492.3m Incl: 1.55°

BG 0.17% (2475m-2500m)
 829/62/0

sbrnnd-rnnd, sbsph trnsp-fros qtz
 in places broken, com sft wh-lt gy
 amor n calc rock flour, tr pyr clus
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

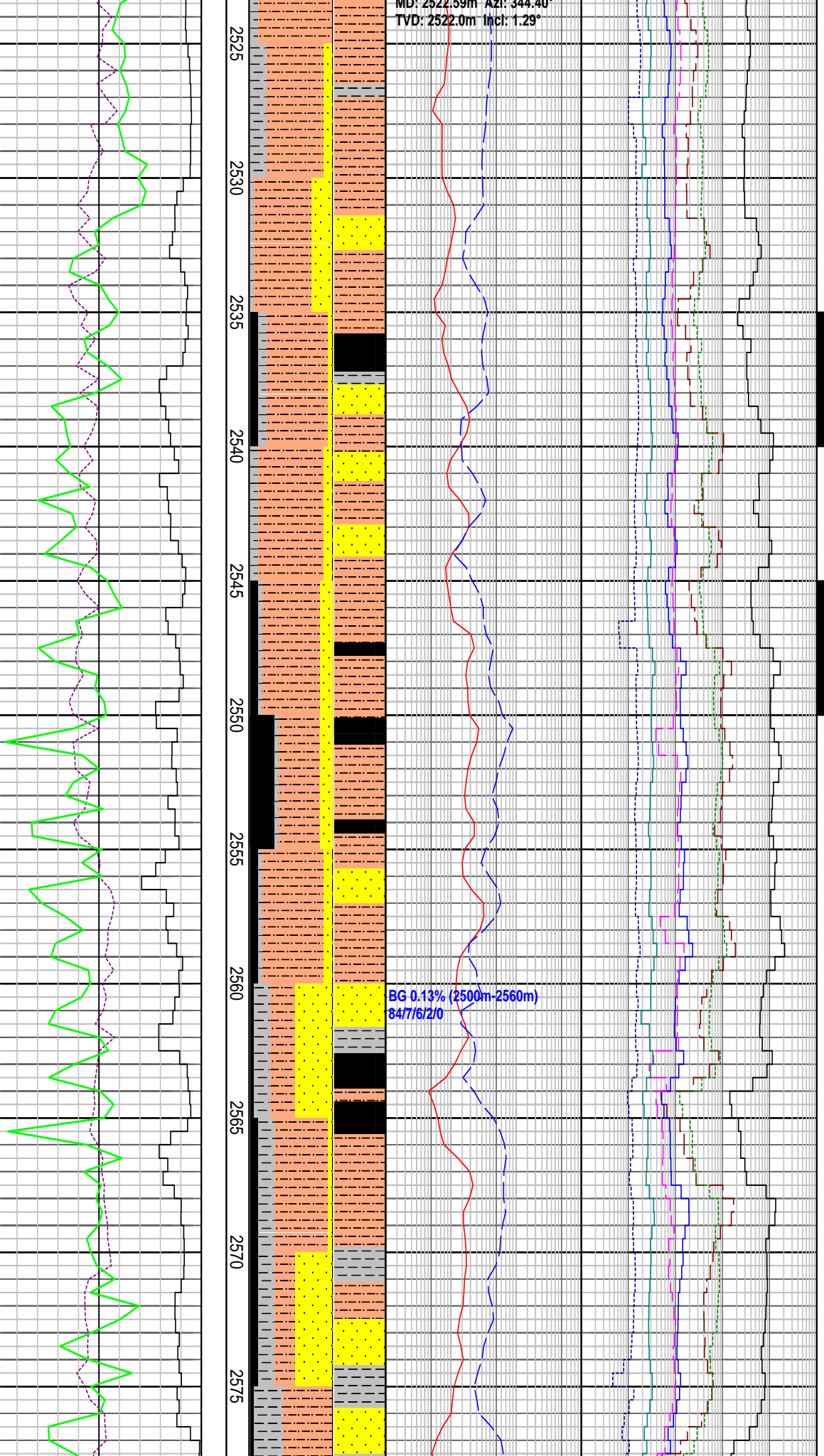
SANDSTONE: lt-m brnsh gy,
 frm-mod hd, v f lower-upper sst, wl
 srt sbang qtz, tr mic slty mtrx, com
 carb lam, with mntr lse v f-m sd, tr
 qtz granules

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 sltst, tr carb lam

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



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

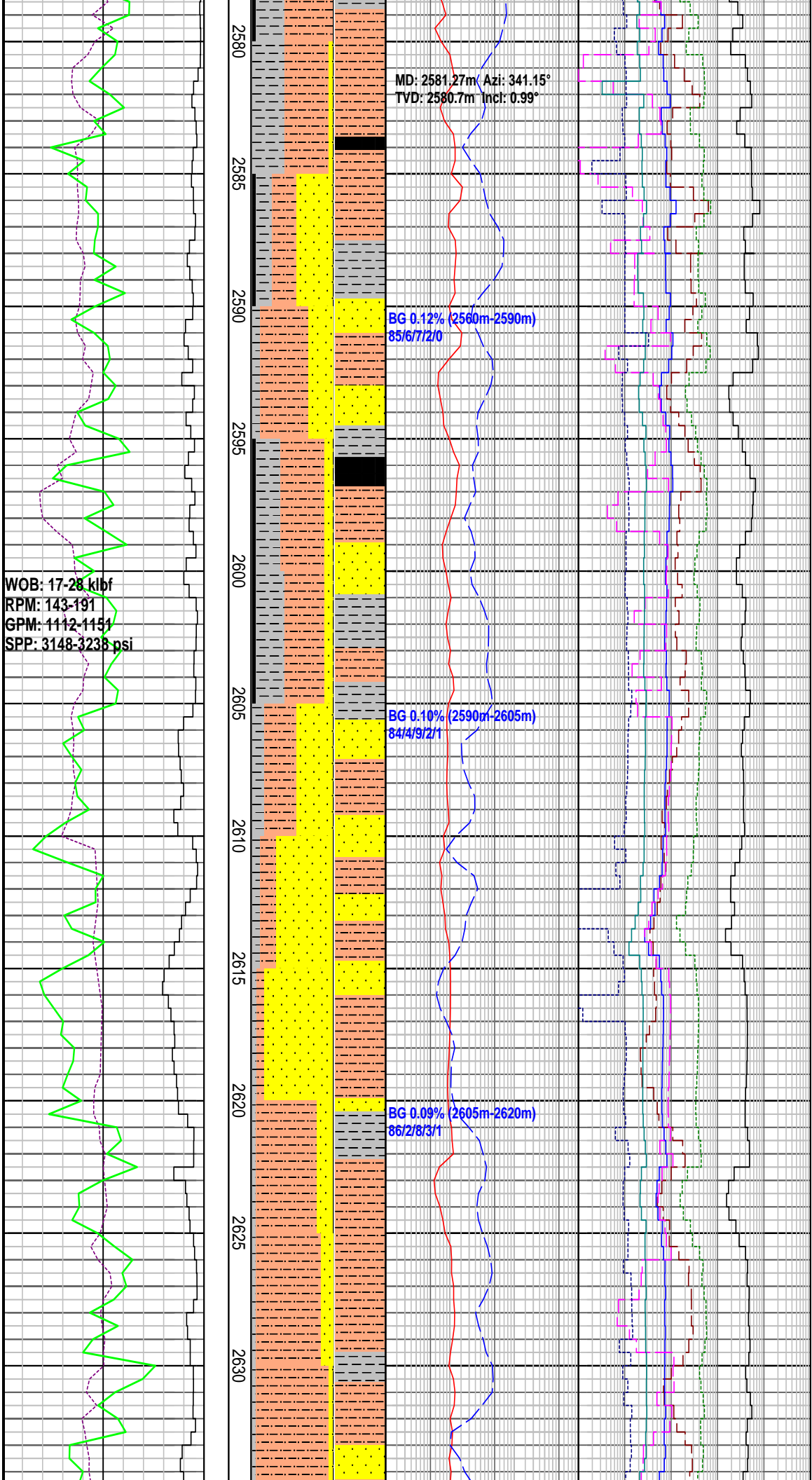
SANDSTONE: lt-m brnsh gy, frm-mod hd, v f lower-upper sst, wl srt sbang qtz, tr mic in slty mtrx, wkly cmt, com carb lam

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

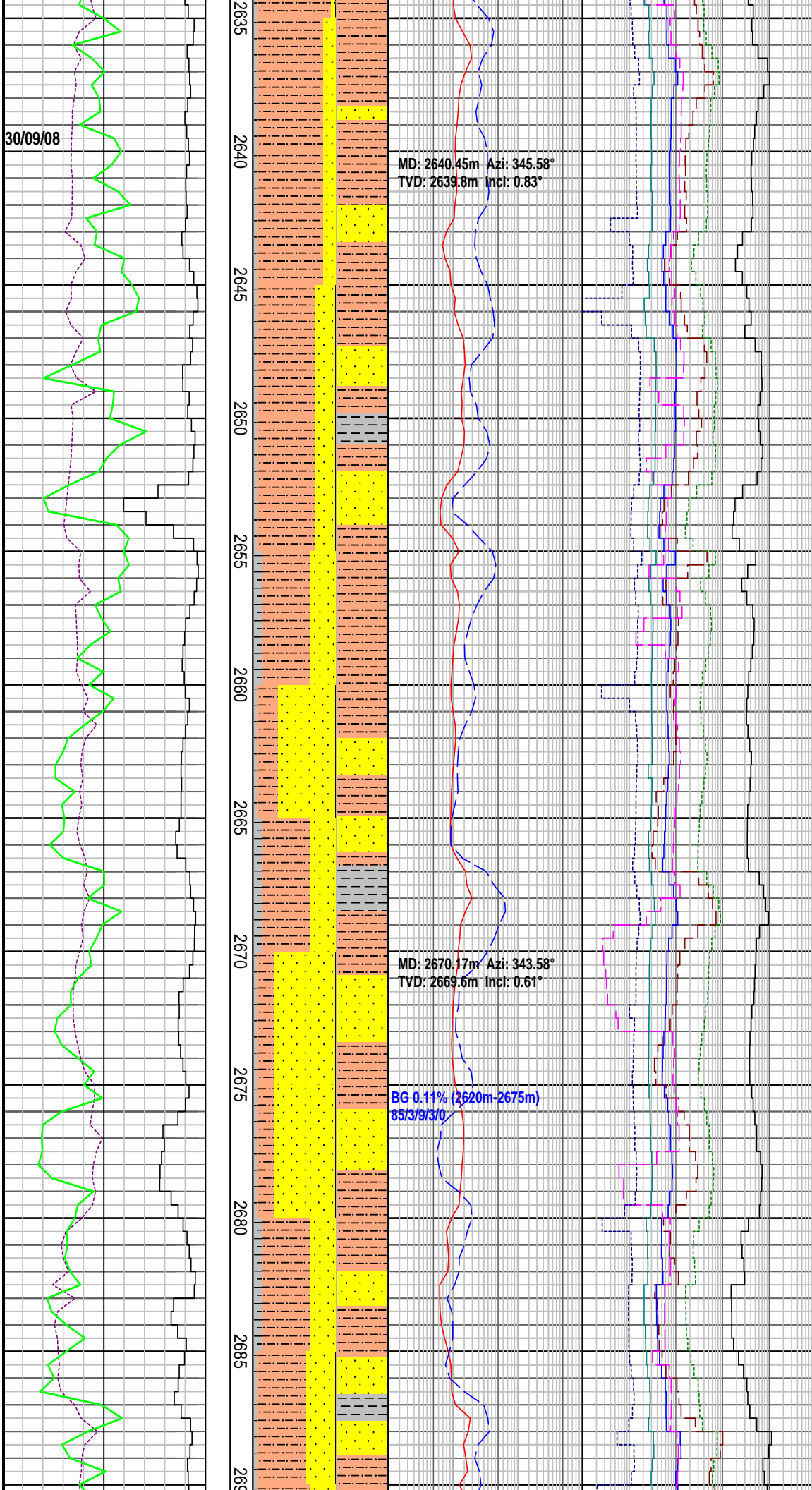
SANDSTONE: wh-v lt gy, pred lse with occ agg, m-crs with mnr granule, mod-wl srt, sbang-sbrndd clr-fros qtz, tr pyr, tr musc flks, tr coal

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

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

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

SANDSTONE: v lt gy-m brnsh gy, frm-mod hd, v f lower-upper sd, f sst i/p, wl srt sb ang qtz, tr mic in



slty mtrx, wk sil cmt, com carb lam, with com lse v f-f sd, mod srt, sbrnrd, tr pyr granules

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

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

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

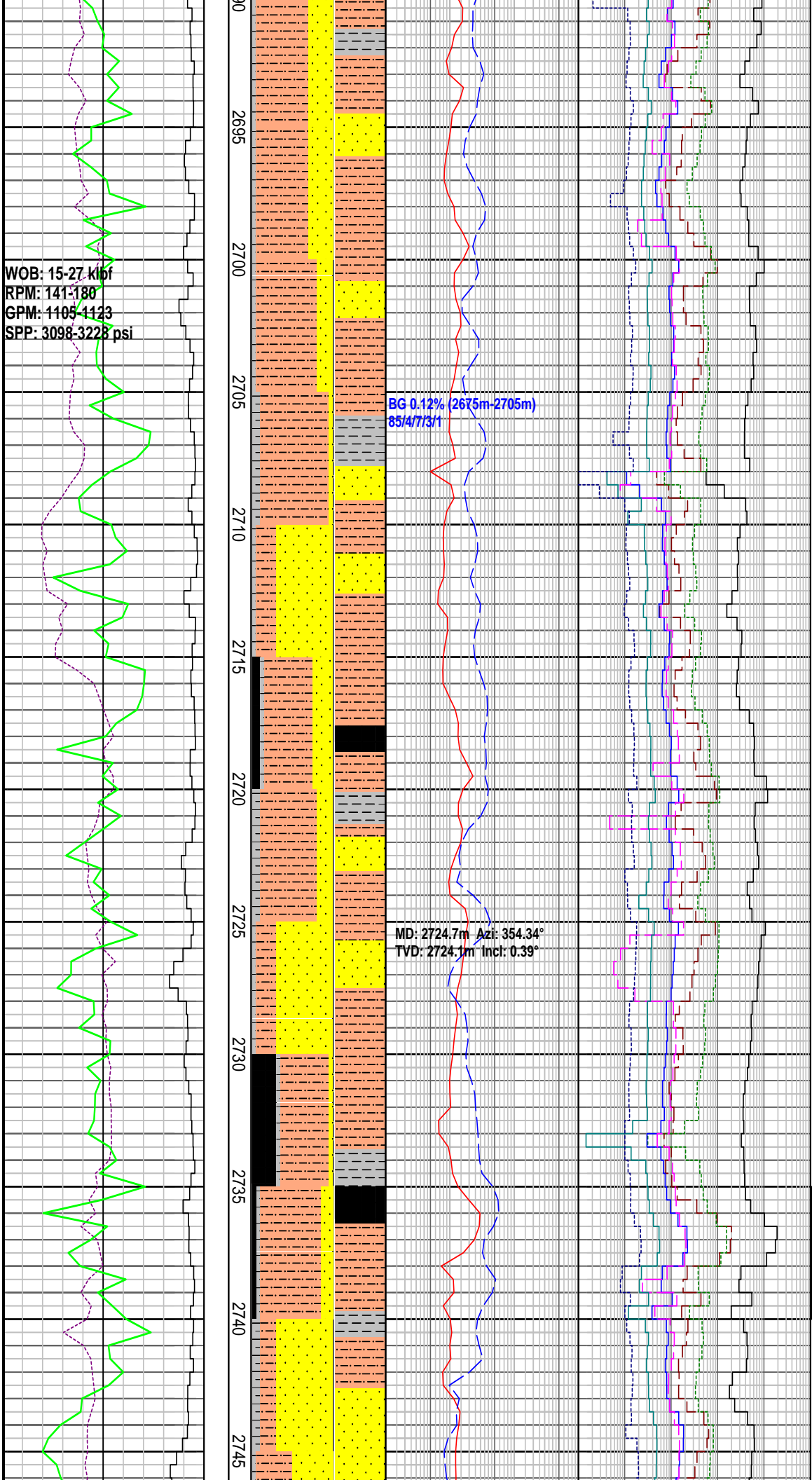
CLAYSTONE : lt-m gy, sft-mod frm, sbblky-blky, sli slty, tr mic flks, tr carb flks, mod calc

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

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

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

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



frim-hd, arg-carb, n calc, tr coal frag, mn 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, sbrndd 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, mn pyr, frm sli sandy sltst, tr mic flks

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

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

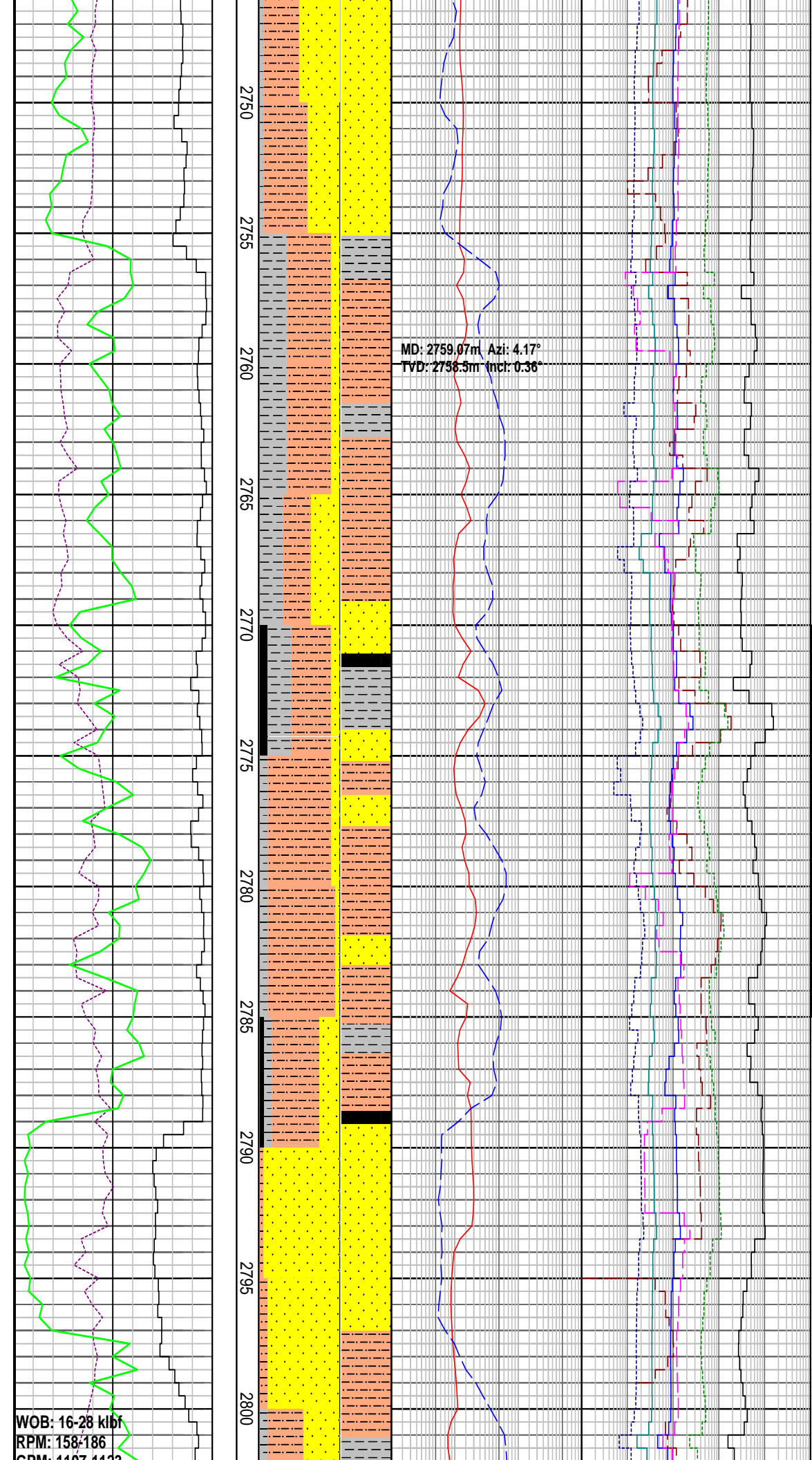
COAL: dk brn-blk, frm, conch frag

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

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

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

SANDSTONE: v lt gy-lt-med brnsh gy, frm-mod hd, v f lower to upper sst wl srt sbrndd qtz tr mic in slt



SST, w/ srt sbrndd qtz, tr mic in slty mtrx, w/ky sil cmt, com carb lam, tr pyr 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

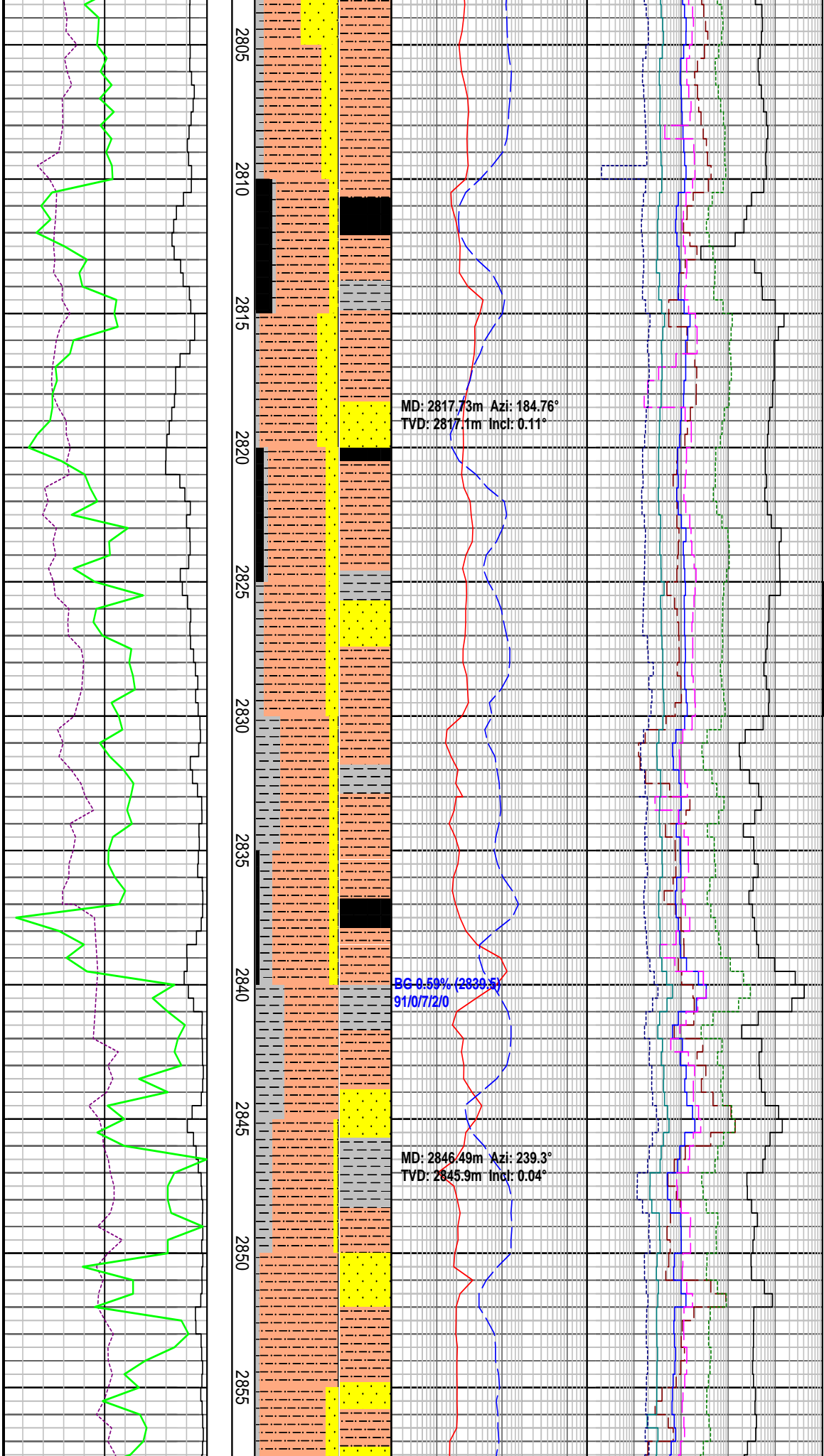
SANDSTONE: v lt gy-lt-med brnsh gy, frm-mod hd, v f lower to f sst, w/ srt sbrndd qtz and tr mic in slty mtrx, w/ky sil cmt, com carb lam, tr pyr por, with lse v f-med sd, tr qtz granules

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, w/ srt sbrndd qtz and tr mic in slty mtrx, w/ky sil cmt, com carb lam, tr pyr 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



frag, mnr pyr, tr pl gy frm sli sandy sltst, tr mic flks, tr carb lam

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

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

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

SILTSTONE: pl-mod olv brn-m gy, 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, 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 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: 3287.0m
 Drilled : 428.0m in 39.8hrs
 Grade:
 2-5-WT-S-X-1-HC-PR

03/10/08

WOB: 15-27 klbf
 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

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 silty mtrx, wily sil cmt, tr coal

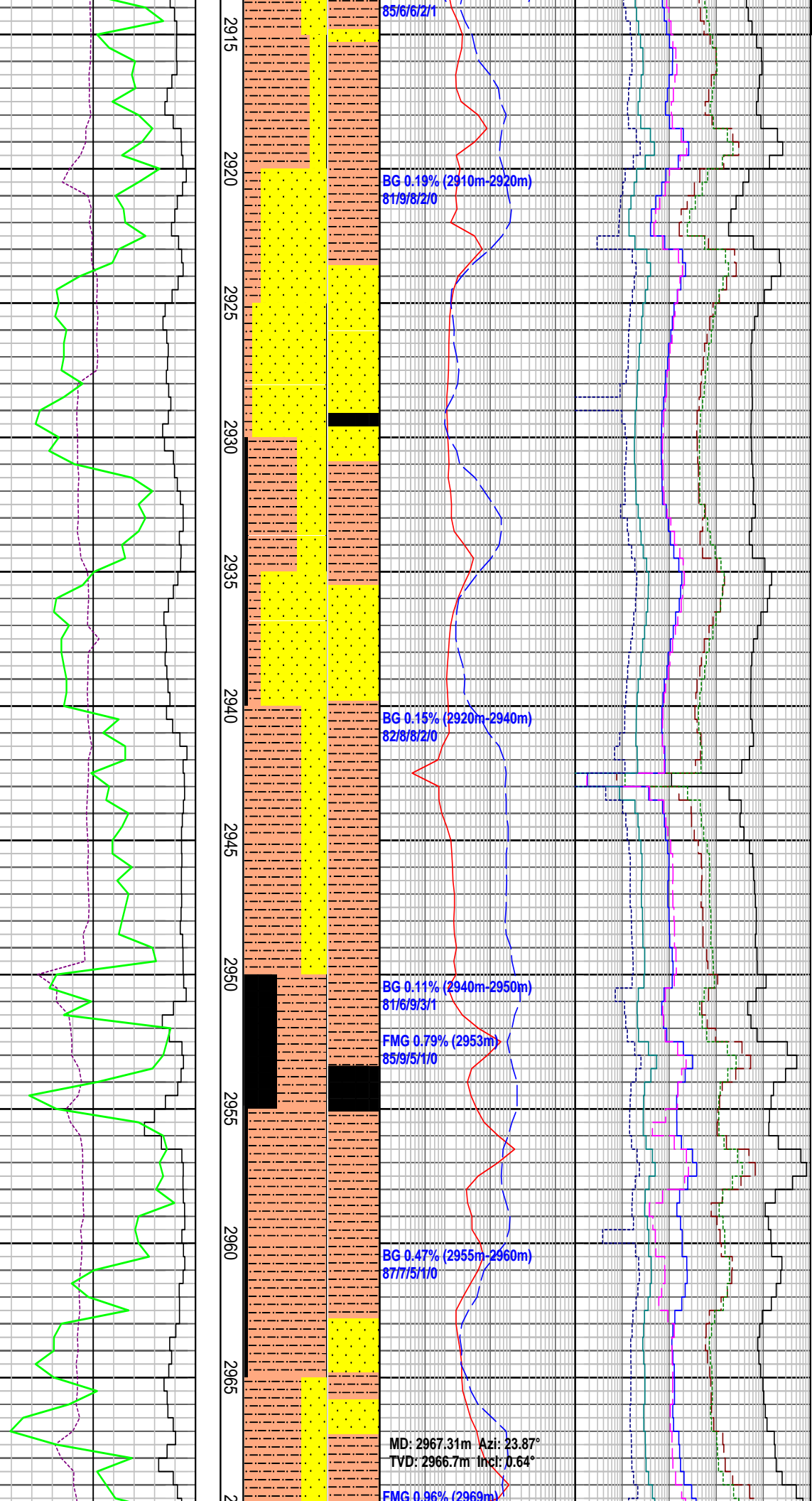
SANDSTONE: wh-pl gy agg, v f-f, wl srt sbrndd qtz gr, tr fspr, tr musc flks, tr py cry, with com wh-pl gy m sst agg, wl srt, sbang-sbrndd qtz in com slty mtrx, mnr sil cmt,

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, 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 sil mtrx, 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 mtrx, 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 sltst, tr mic flks

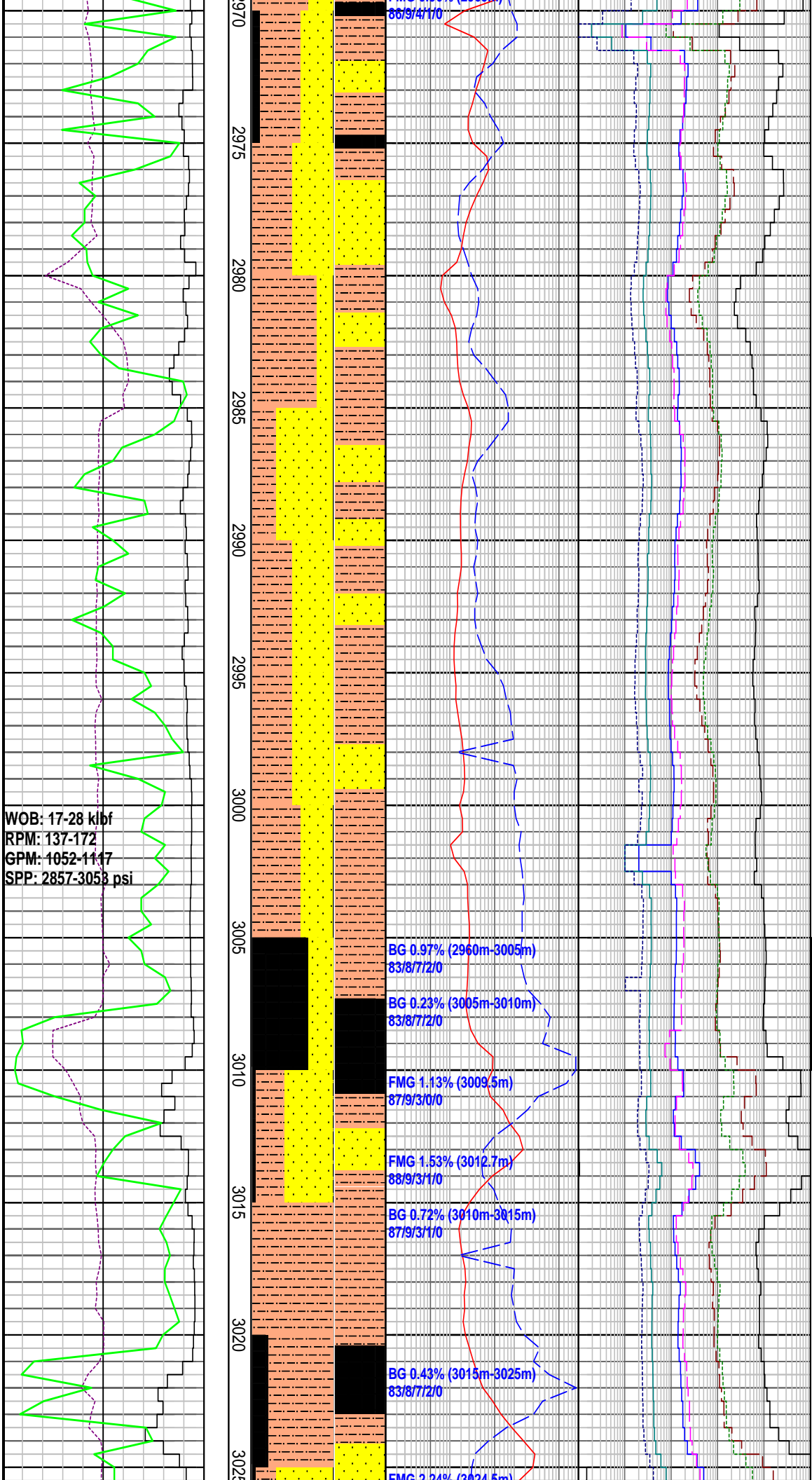
SANDSTONE: lse f-m dom f upper-m lower wl srt sbrndd qtz gr, tr fspr, tr musc flks, tr py cry, with com wh-pl gy m sst agg, wl srt, sbang-sbrndd qtz in com slty mtrx, mnr sil cmt, carb frag, pr vis por, mnr sft wh rock flour

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



WOB: 17-28 klbf
 RPM: 137-172
 GPM: 1052-1117
 SPP: 2857-3053 psi

BG 0.97% (2960m-3005m)
 83/8/7/2/0

BG 0.23% (3005m-3010m)
 83/8/7/2/0

FMG 1.13% (3009.5m)
 87/9/3/0/0

FMG 1.53% (3012.7m)
 88/9/3/1/0

BG 0.72% (3010m-3015m)
 87/9/3/1/0

BG 0.43% (3015m-3025m)
 83/8/7/2/0

FMG 2.24% (3021.5m)

SILTSTONE: dkgy-brn gy,m brn gy,
 frm-hd, mod hd i/p, blk, n calc,
 mnr pyr, tr mic flks, grd 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,
 mnr 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,
 mnr sil cmt

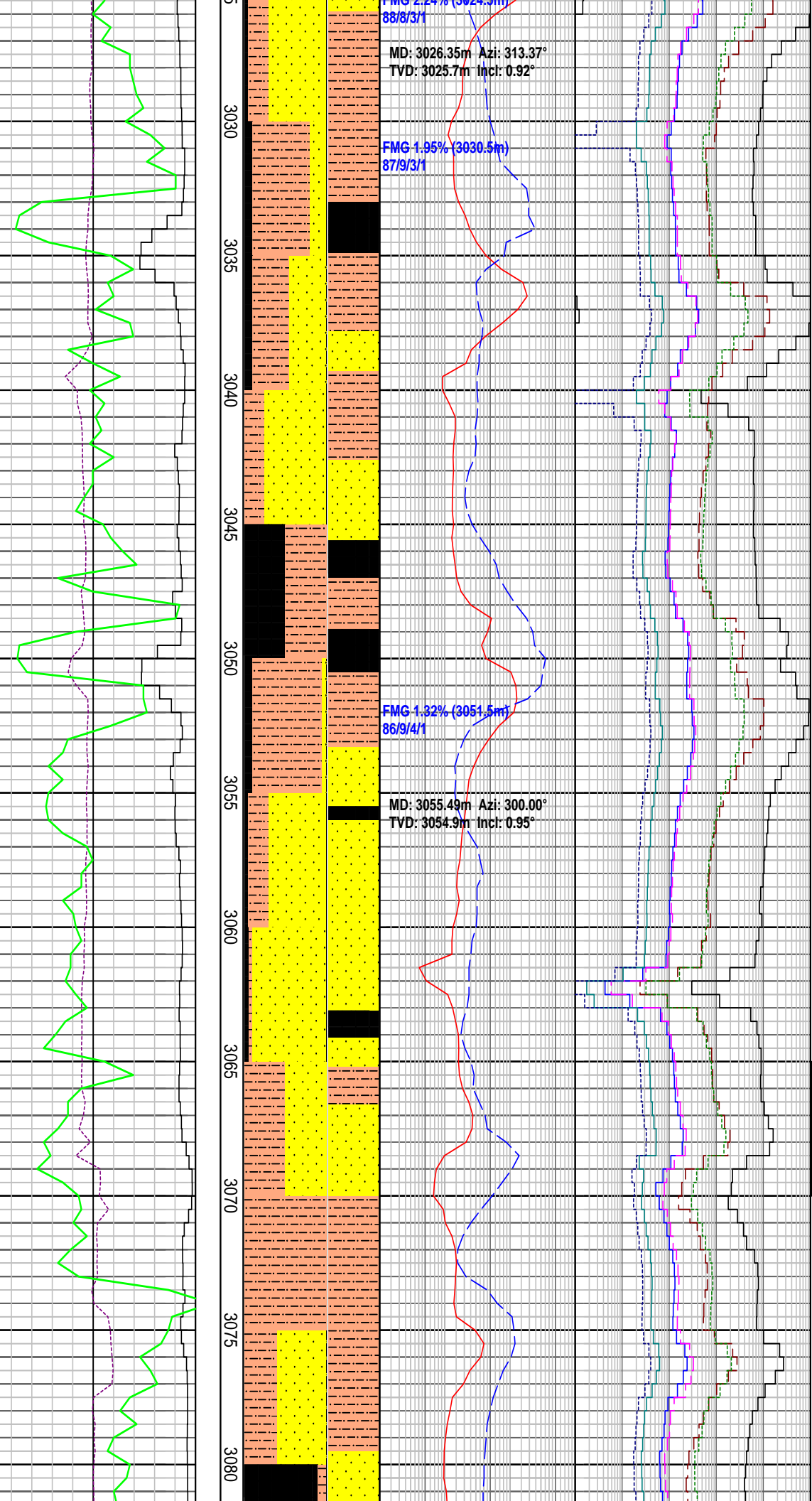
SHOWS (3005m-3010m): tr mod brt
 yel pinpoint fluor in sltst and coal
 mod fast blooming mod brt bl-wh
 cut fluor thin-wide mod brt-brt
 gr-bl fluor residual ring, nil vis
 residual

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,
 mnr pyr, tr mic flks, grd to sst

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

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



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 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

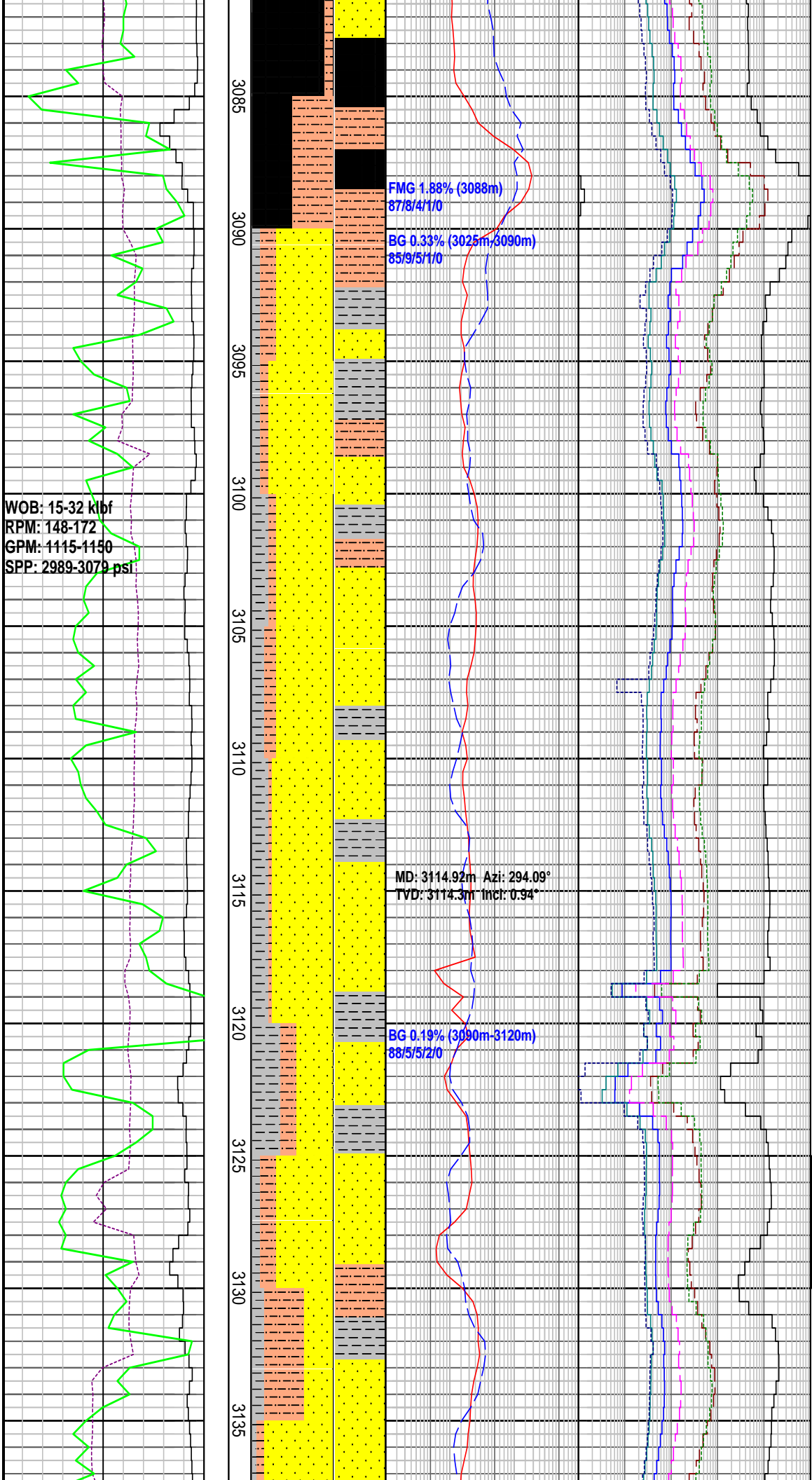
SILTSTONE: dk brn-brn blk, frm-hd blk, argi to carb, n calc, tr c seg, mnr pyr

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

cone planar fac



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

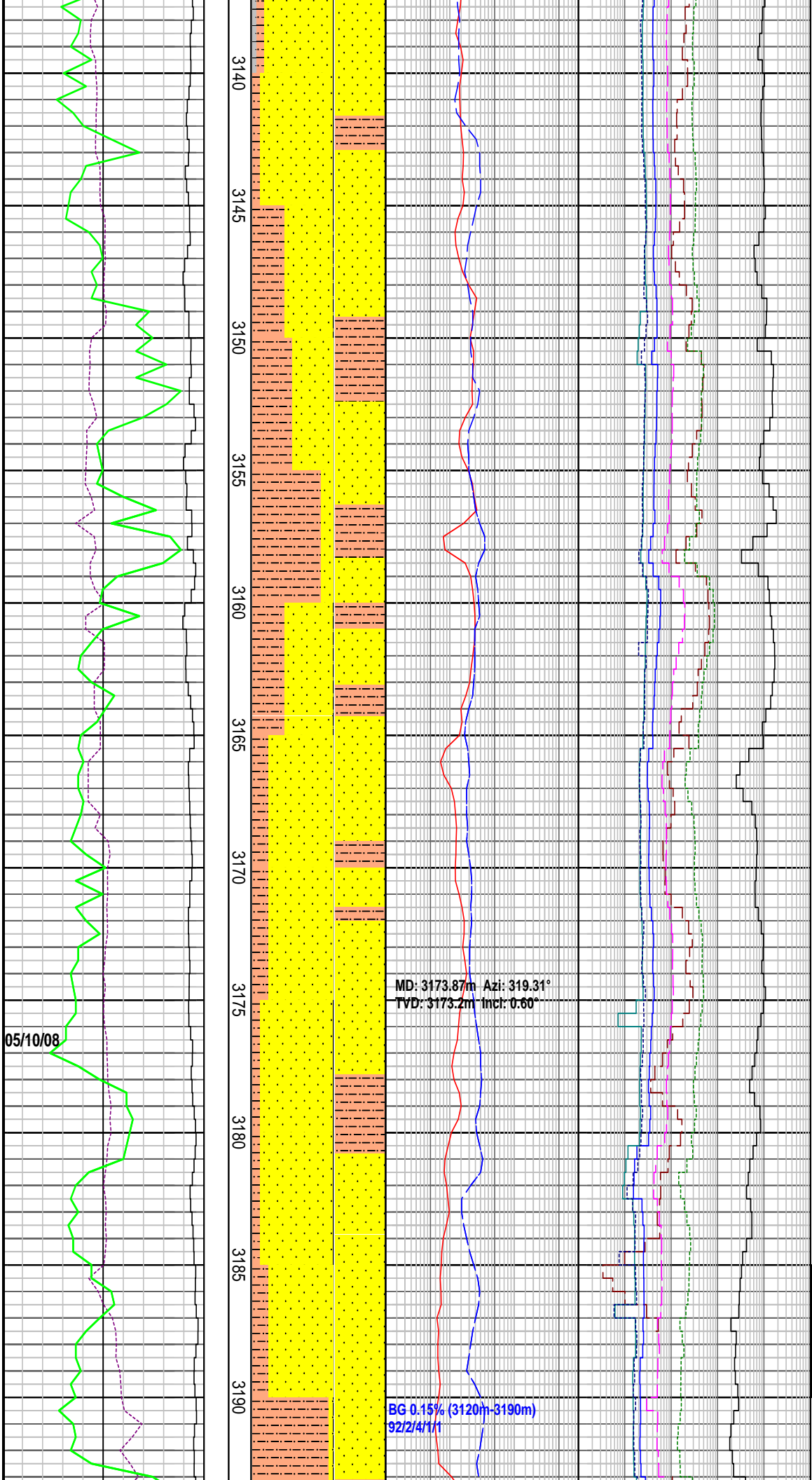
CLAYSTONE: lt-m gy, mod sft, sbblky-blky, sli sil, tr mic flks, tr carb flks, mod calc

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

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 tr mtr, n vis por, mnr sft wh rock flour inf to be sst, tr coal

SHOWS (3125m-3130m):tr v dull grsh yel pinpoint fluor in f sltst v slow blooming v dull bl wh cut fluor, thin mod brt bl wh fluor 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 srttd, 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 srttd, subang-sbrndd qtz in com slty carb mtrx, mod sil cmt, fri-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 srttd, subang-sbrndd qtz in com slty carb mtrx, mod sil cmt, fri-frm, 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 srttd, subang-sbrndd qtz in com slty carb mtrx, mod sil cmt, fri-frm, tr carb frag, pr vis por, mod abnd sft wh rock flour inf- from sst, tr coal.

SHOWS (3185m-3190m): tr brt grsh yel pinpoint fluor in f stlst slow blooming mod brt bl wh cut fluor,

WOB: 20-34 kbf
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

wide mod brt bl wh fluor residua
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
sly mtrx

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

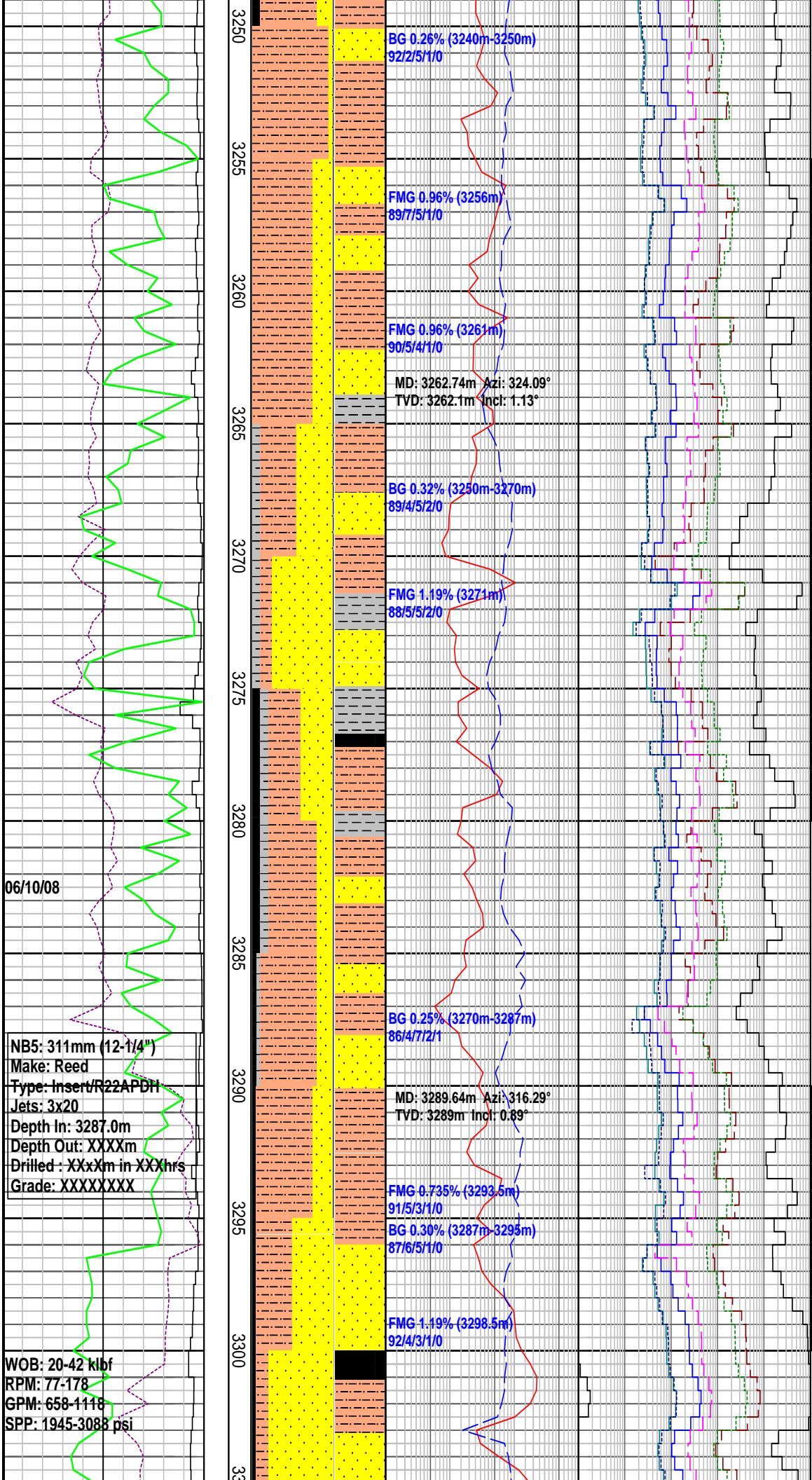
SANDSTONE:pl gy-wh, lse f-m sd,
wl srt,sbang-sbrndd qtz, tr fspr, tr
mic, tr coaly frag, frm-hd agg, with
sly mtrx, mod sil cmt, tr pyr

SILTSTONE: dk brn gy, frm-hd,
blky, 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
sly mtrx, mod sil cmt, tr pyr, tr
titanite

SILTSTONE: dk brn gy, frm-hd,
blky, 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 brn 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 brn gn-yel associated with wh gn rock flour (sst), v slow to mod slow blooming bl wh cut flour. Dull and patchy bl wh 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 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 resi ring

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

COAL : blk, frm-hd, brt bnnd, 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

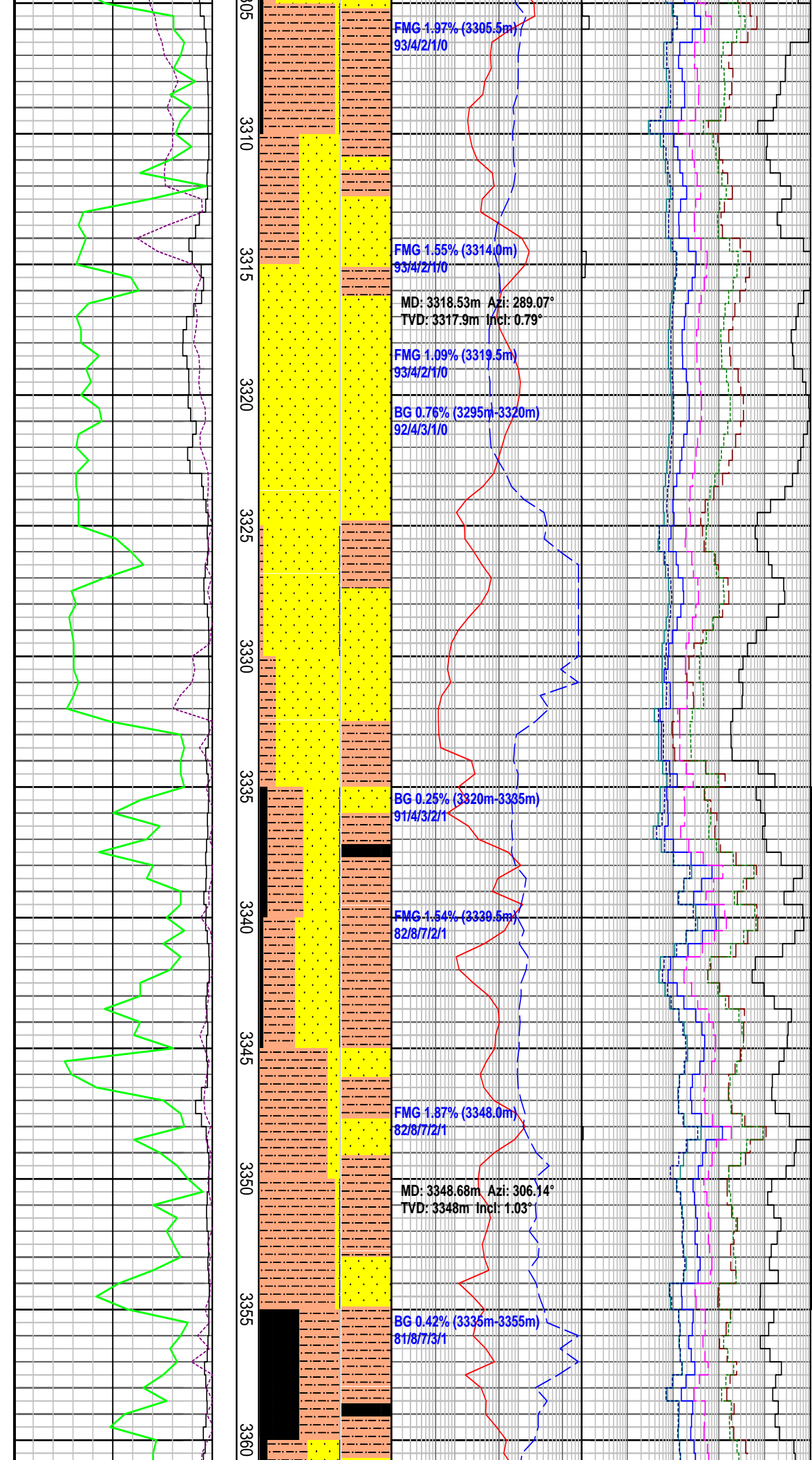
SHOWS (3288m-3295m): tr- 2% dull gsh yel pinpoint fluor in f sst, mod fast streaming brt bl wh cut flour, wide brt bl-wh fluor residual ring, no vis residue

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: XXXXm
 Drilled: XXxXm in XXxhrs
 Grade: XXXXXXXX

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



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, mnr-com pyr clay

SANDSTONE: wh-lt gy-wh, frm-hd wl 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

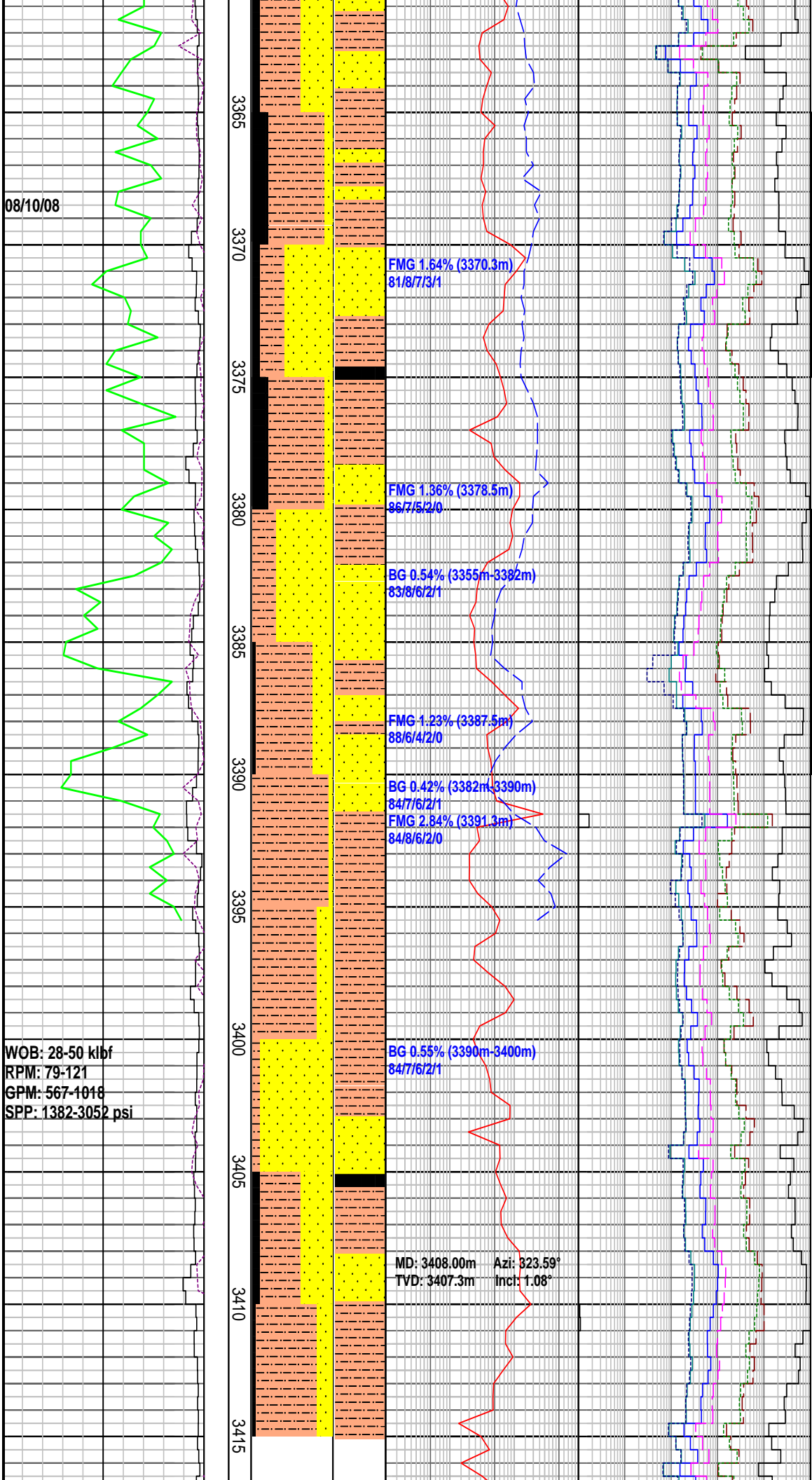
SILTSTONE: dk brn gy, frm-hd, blk, arg-carb, tr v f sd, tr carb frag, mnr-com pyr clay

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, wily 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

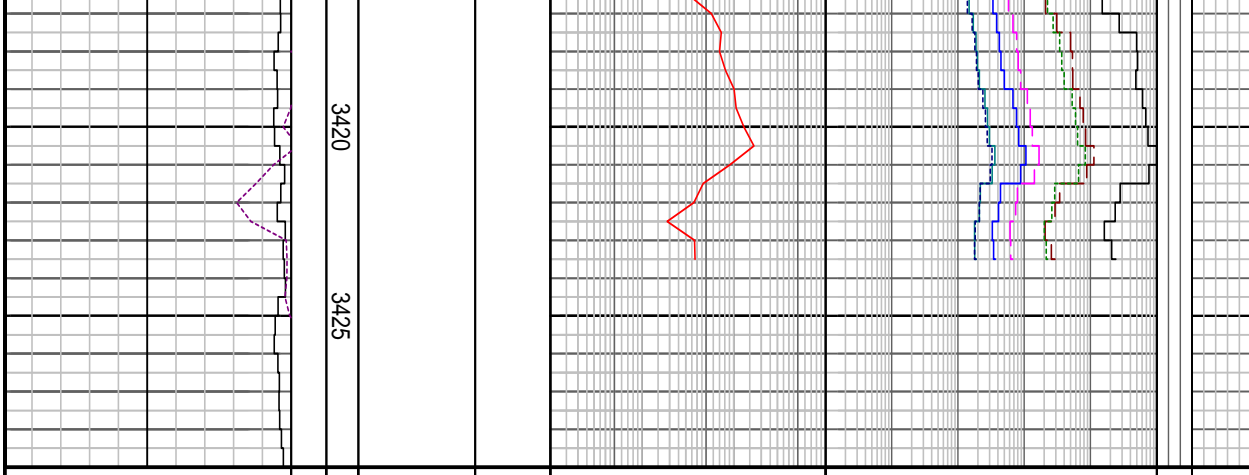
SANDSTONE: yelsh gy, lse, f-m lower sand, mod srt, frm-hd, sbang-sbrndd, tr carb frag, sil cmt agg, pr vis por

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

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



FORMATION EVALUATION LOG

Drilling Rate ROP (m/hr)	CORE	MD meters 1:200	LITHOLOGY %	INTERPRETED LITHOLOGY	TOTAL GAS & RESISTIVITY	CHROMATOGRAPH	Oil Show P F G	Calcmetry	Lithology Description
WEIGHT ON BIT (klbf)					Total Gas %	Methane ppm			
200 160 120 80 40					0.1 1 10	0.1 10000			
10 20 30 40 50					0.2 Resistivity Deep 200	0.1 Ethane ppm 10000			
400 360 320 280 240					ohm.m	0.1 Propane ppm 10000			
0 Gamma Ray 200						0.1 iso-Butane ppm 10000			
API						0.1 n-Butane ppm 10000			
						0.1 iso-Pentane ppm 10000			
						0.1 n-Pentane ppm 10000			