



Company : Stuart Petroleum Ltd

Well : Bazzard-1

Interval : 100.00 - 2865.12 meters

Created : 02/Oct/2008 6:16:37 AM



INTEQ

### 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	Calcimetry CaCO3 % MgCO3 %	Lithology Description										
				Total Gas %	Resistivity Deep	0.1	0.1	0.1	0.1	0.1				0.1	0.1								
				0.1	1	10	10000	10000	10000	10000				10000	10000								
200  160  120  80  40 WEIGHT ON BIT (klbf) 10   20   30   40   50 ROP Backup (m/hr) 400  360  320  280  240				ohm.m		Methane ppm		Ethane ppm		Propane ppm		iso-Butane ppm		n-Butane ppm		iso-Pentane ppm		n-Pentane ppm					
	100																						
	105																						
	110																						
	115																						
	120																						
	125																						
	130																						
	135																						

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

RT-MSL: 38.5 mMDRT  
 Water Depth: 67.9 mMDRT  
 RT-Seabed: 106.4 mMDRT

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-4-I-NO-PR

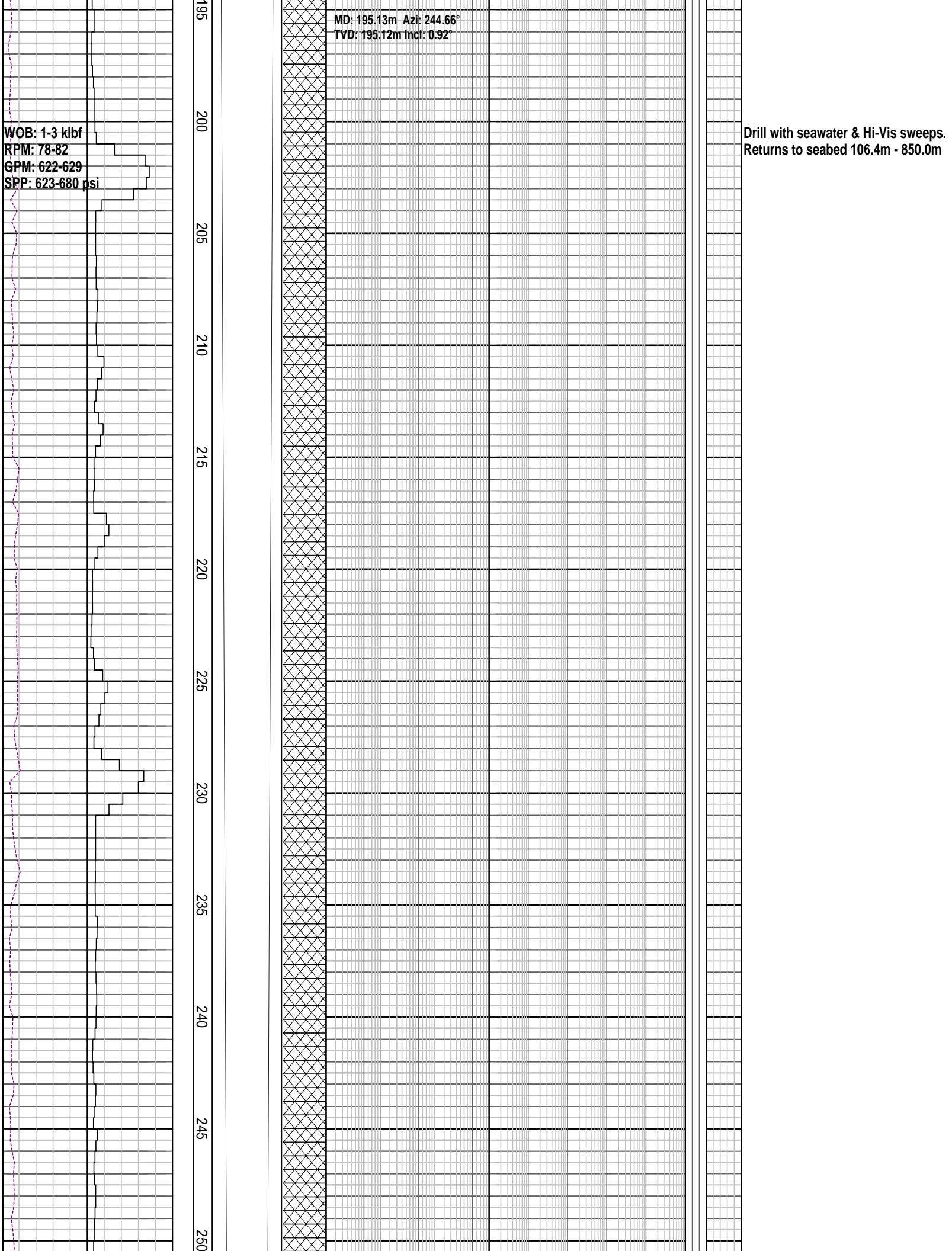
140  
145  
150  
155  
160  
165  
170  
175  
180  
185  
190

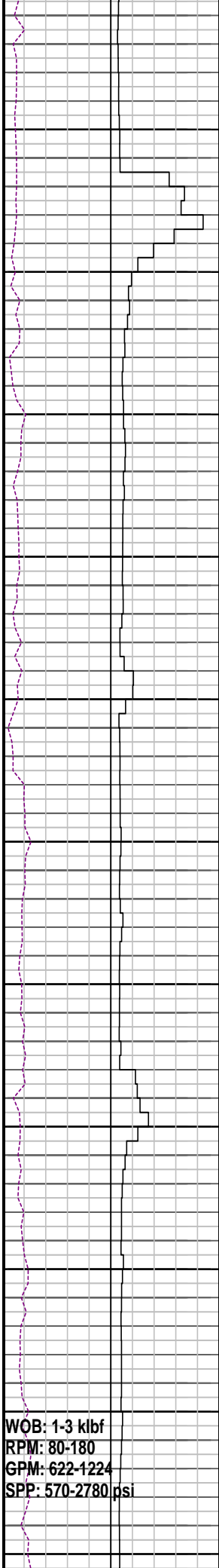
36" Hole Section TD 154.0m

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

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

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

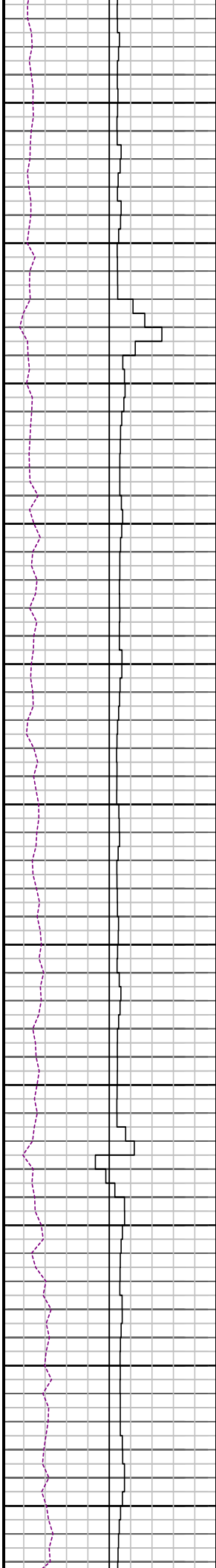




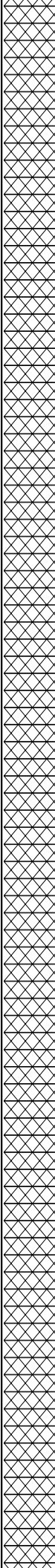
255  
260  
265  
270  
275  
280  
285  
290  
295  
300  
305

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

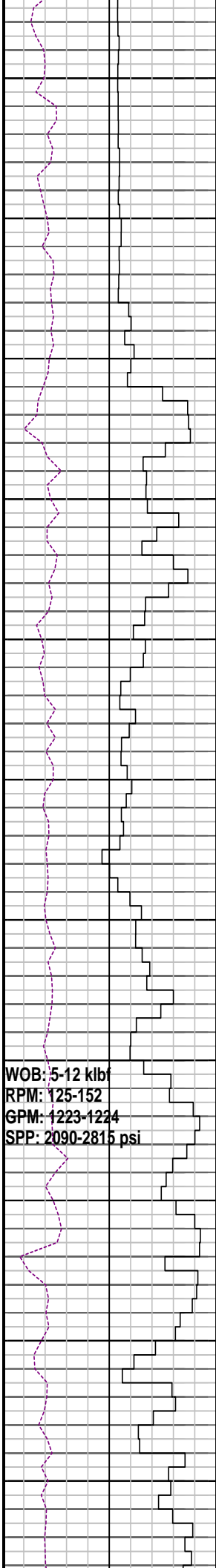
Drill with seawater & Hi-Vis sweeps.  
Returns to seabed 106.4m - 850.0m



310 315 320 325 330 335 340 345 350 355 360



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



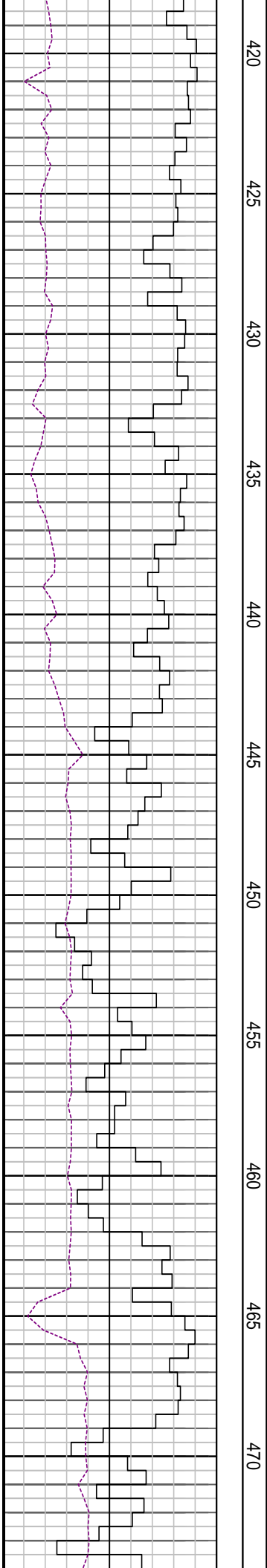
365  
370  
375  
380  
385  
390  
395  
400  
405  
410  
415

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

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

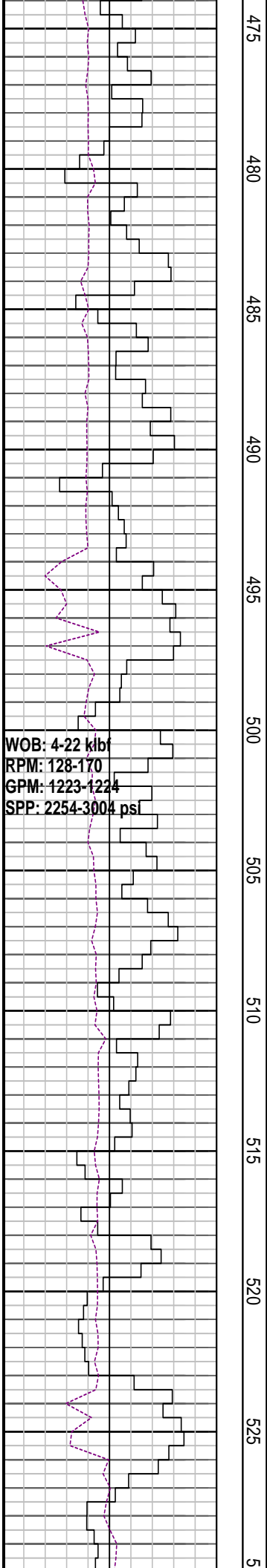
WOB: 5-12 klbf  
RPM: 125-152  
GPM: 1223-1224  
SPP: 2090-2815 psi

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



420  
425  
430  
435  
440  
445  
450  
455  
460  
465  
470

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



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

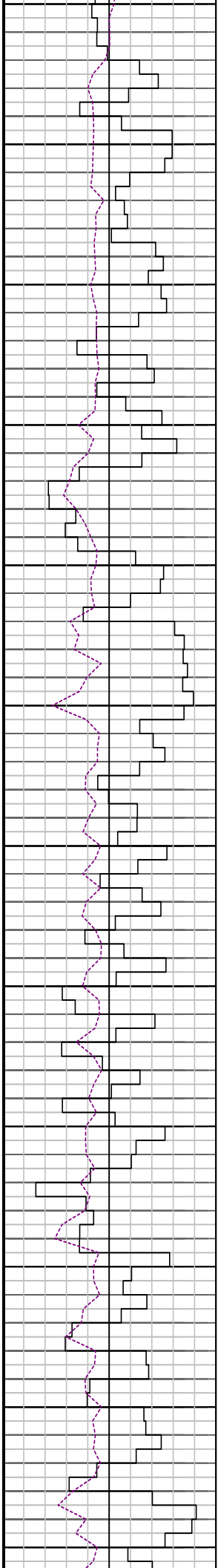
WOB: 4-22 kbf  
RPM: 128-170  
GPM: 1223-1224  
SPP: 2254-3004 psi

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

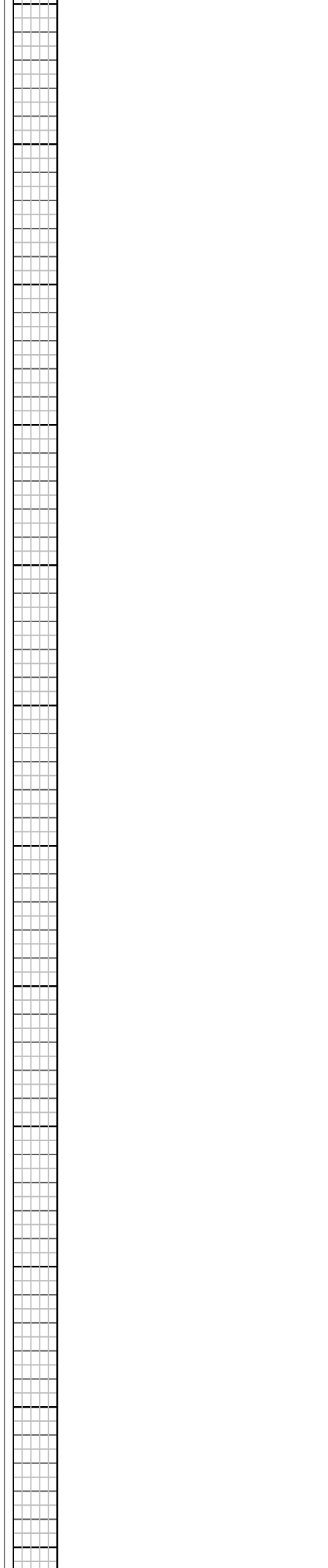
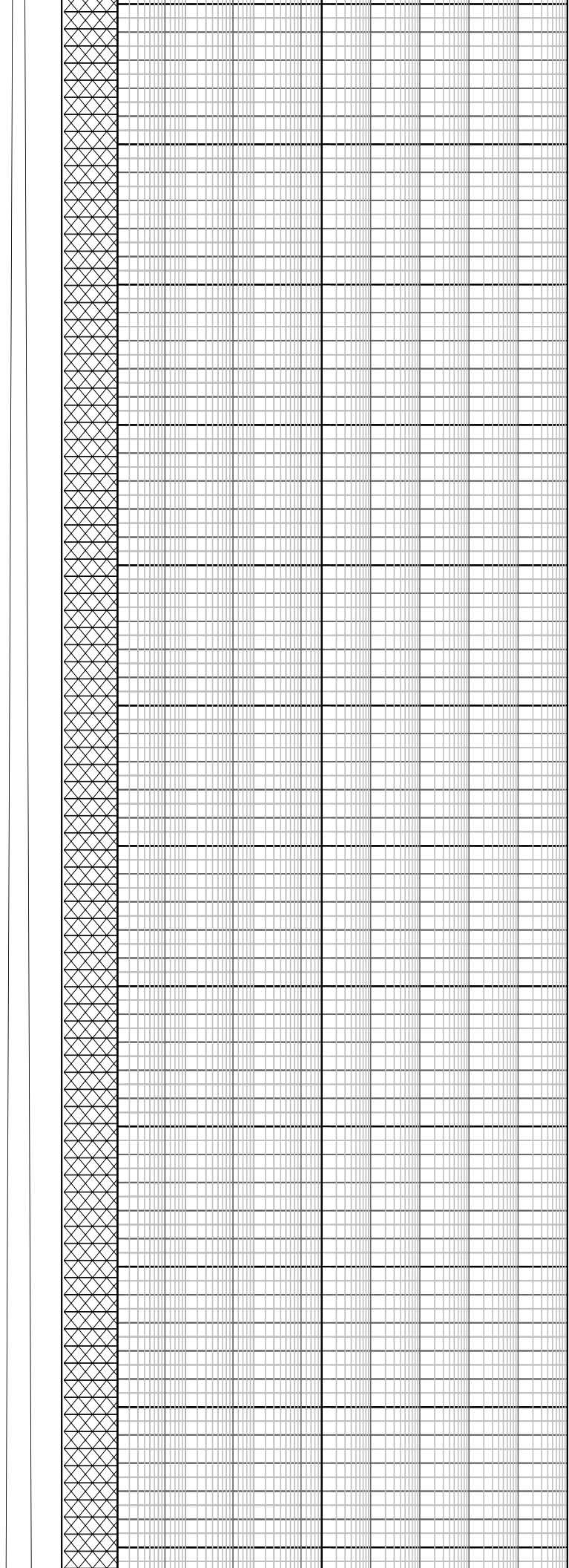
MD: 518.24m Azi: 302.41°  
TVD: 518.22m Incl: 0.60°

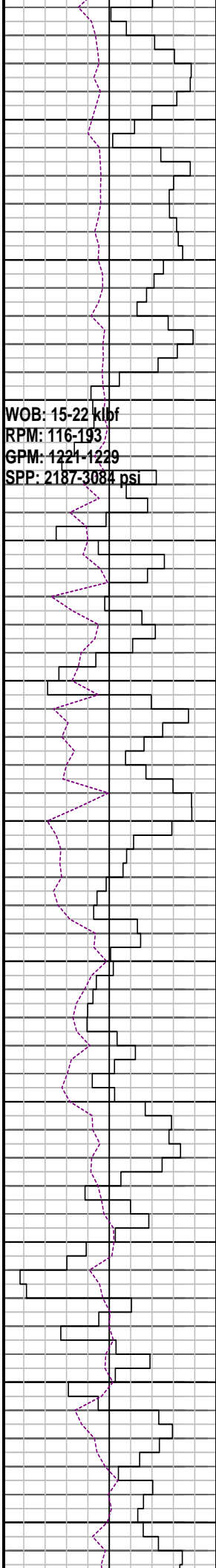
Drill with seawater & Hi-Vis sweeps.  
Returns to seabed 106.4m - 850.0m





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





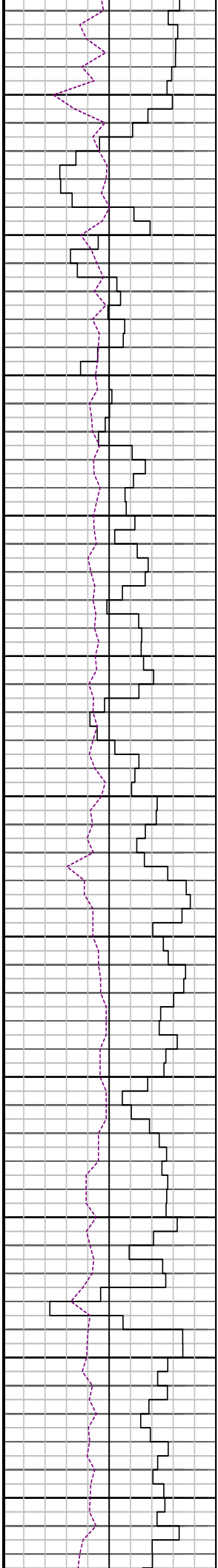
590  
595  
600  
605  
610  
615  
620  
625  
630  
635  
640

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

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

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

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



645

650

655

660

665

670

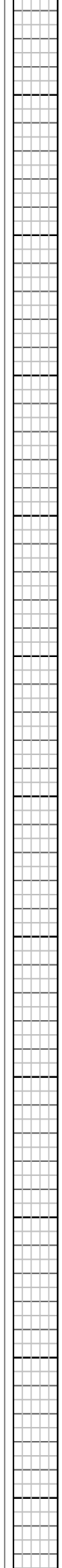
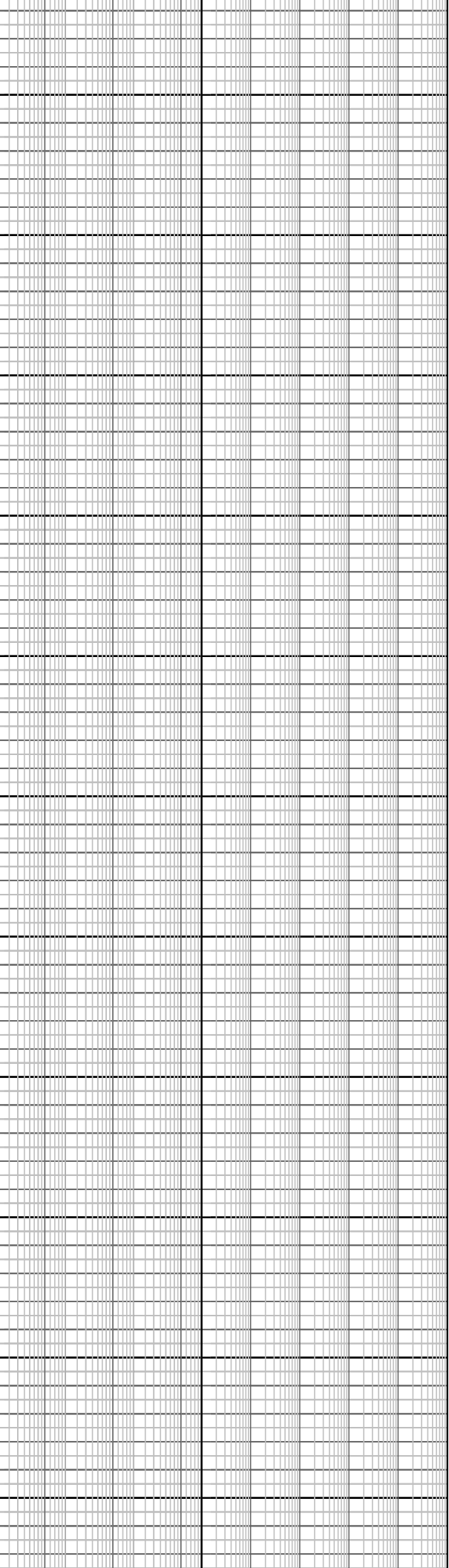
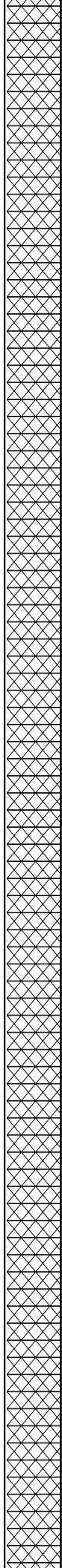
675

680

685

690

695



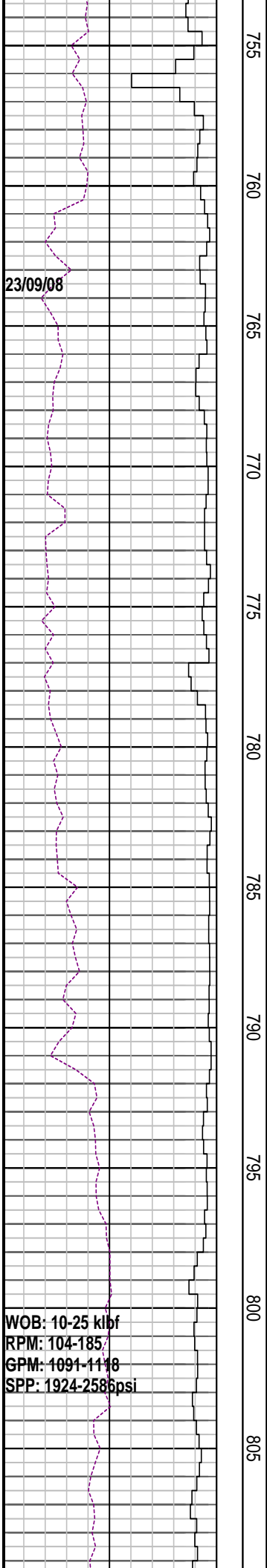
WOB: 15-25 klf  
RPM: 113-185  
GPM: 1112-1228  
SPP: 2226-2894 psi

700  
705  
710  
715  
720  
725  
730  
735  
740  
745  
750

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

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

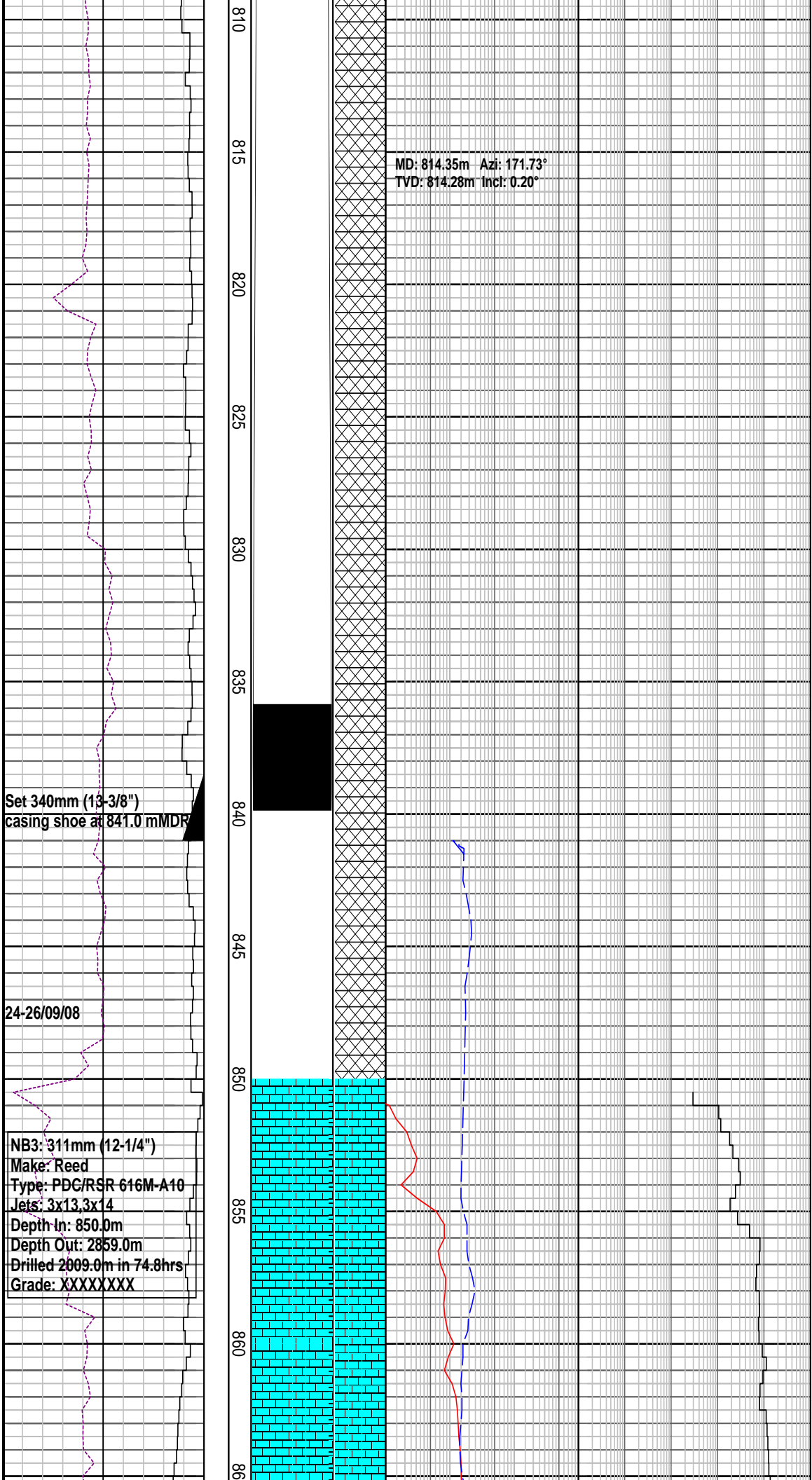
Drill with seawater & Hi-Vis sweeps.  
Returns to seabed 106.4m - 850.0m



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

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

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



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

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

24-26/09/08

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

16" Hole Section TD 850.0m

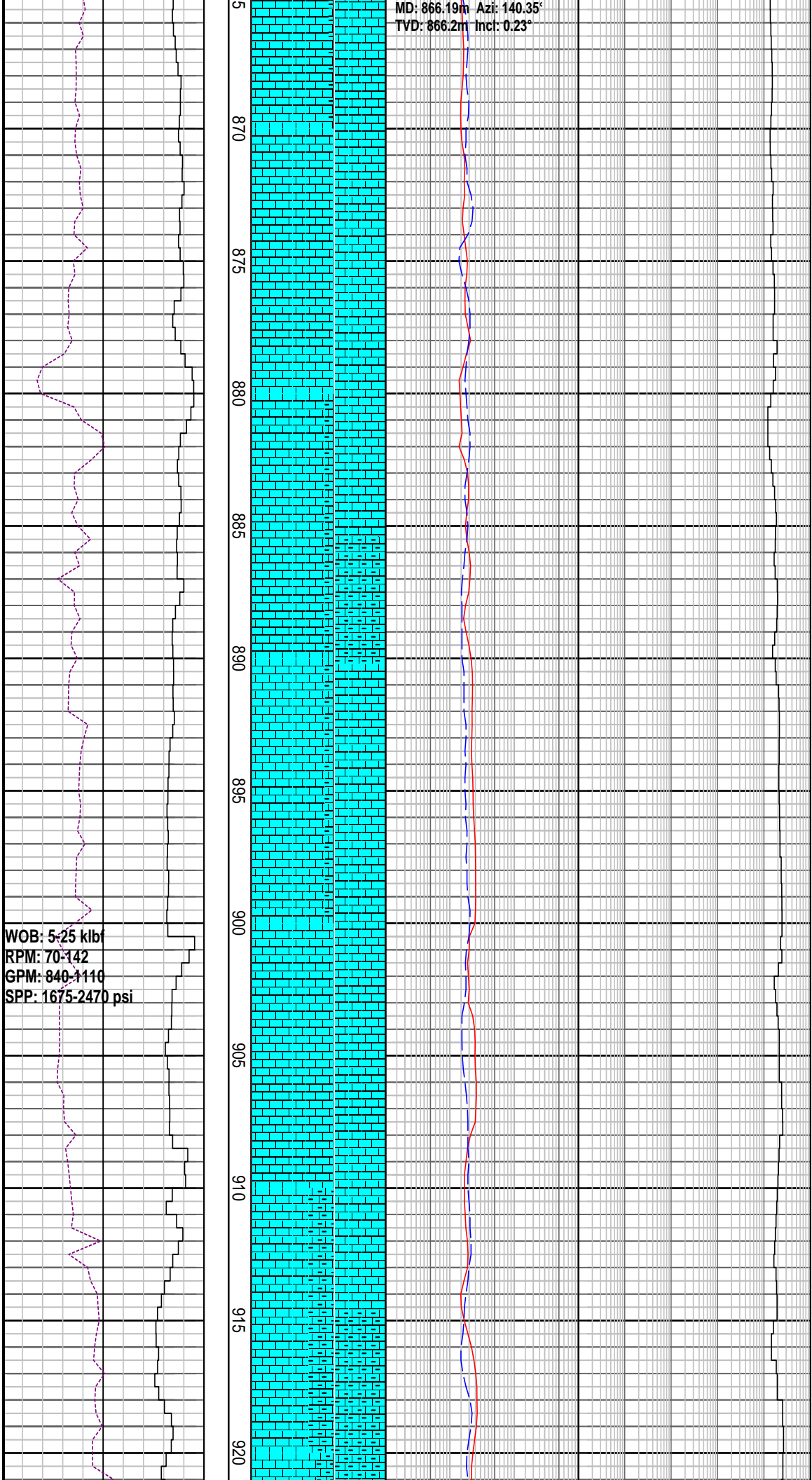
Drill with KCI/PHPA mud  
 850.0m to Well TD

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

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

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

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

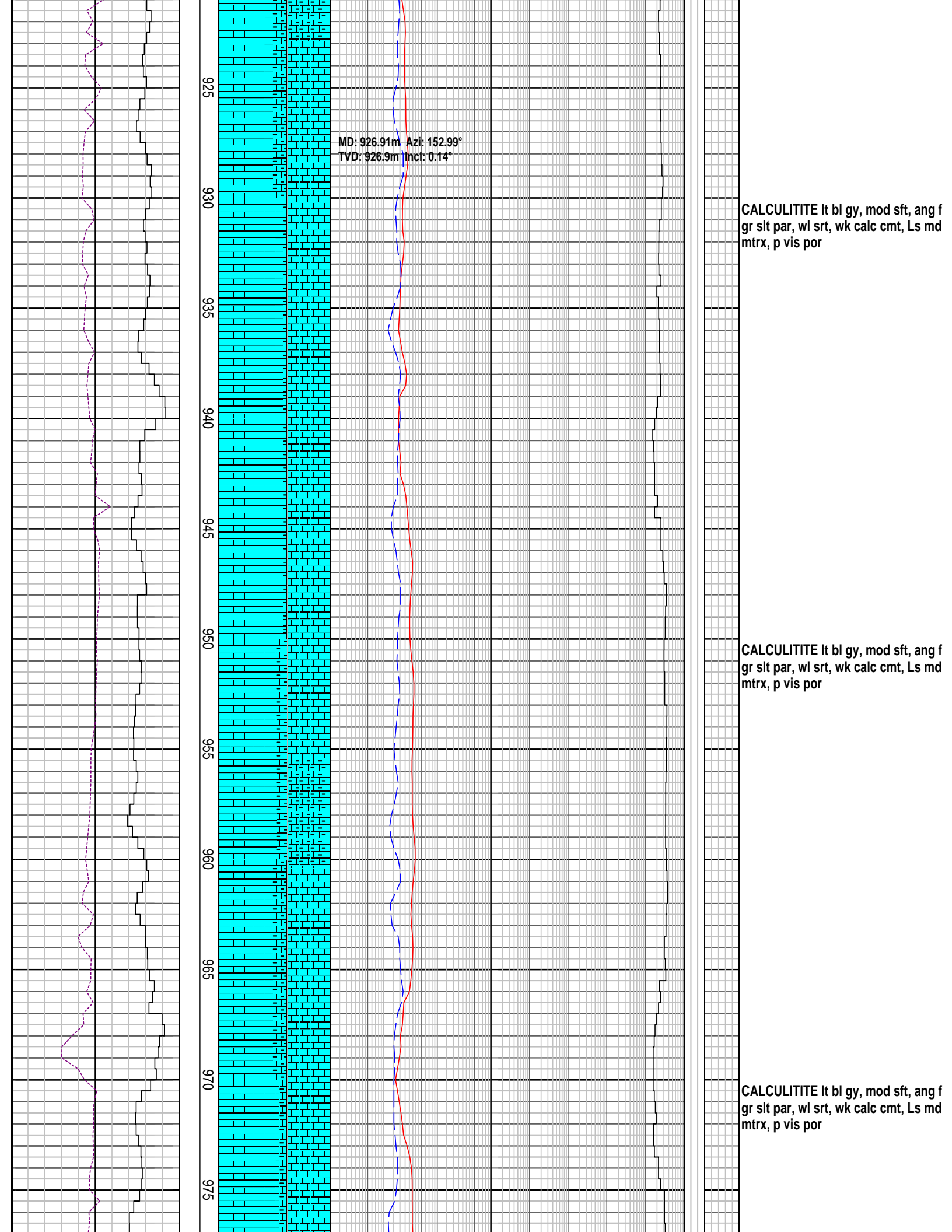


WOB: 5-25 klf  
RPM: 70-142  
GPM: 840-1110  
SPP: 1675-2470 psi

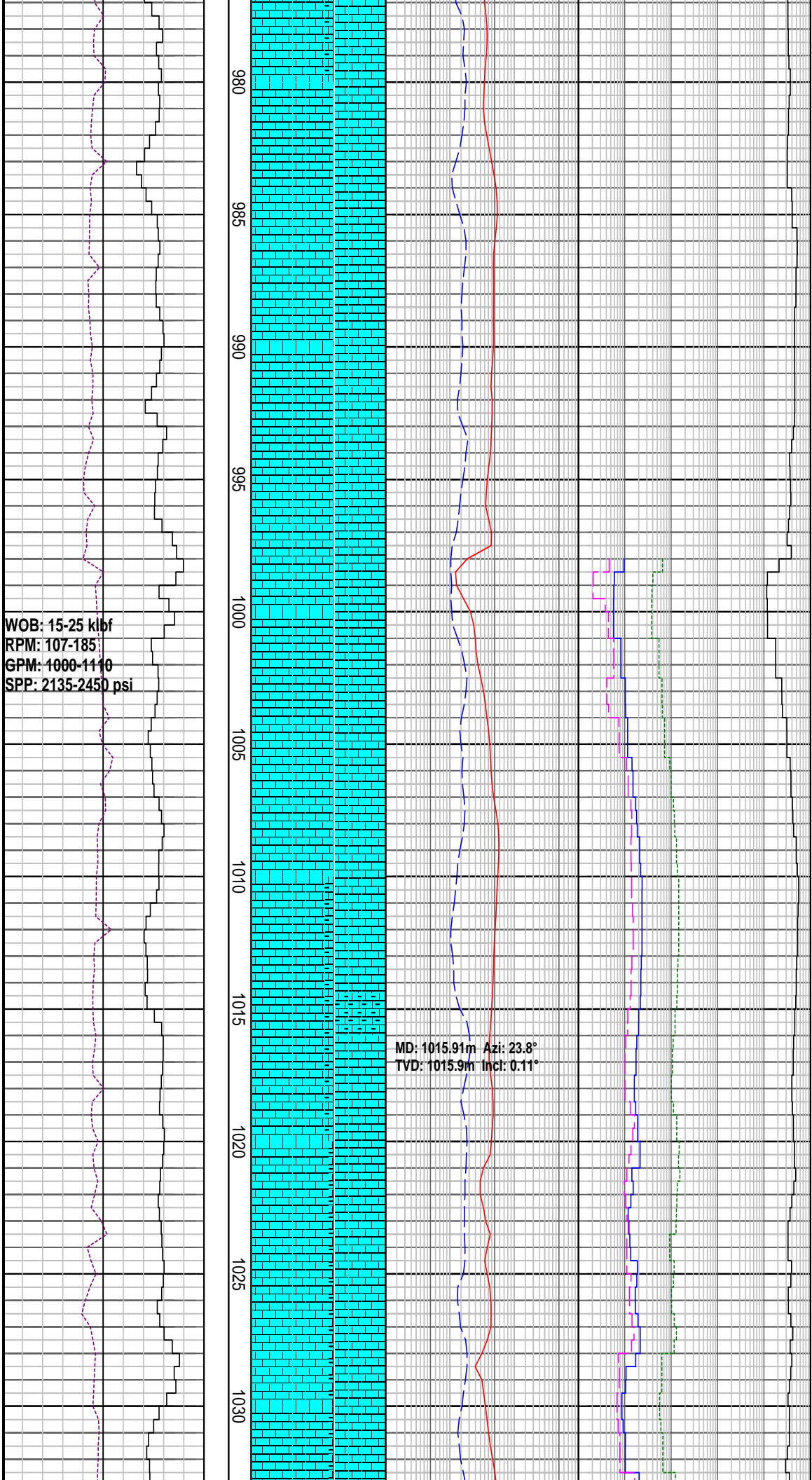
**CALCARENITE** : yel gy-lt olv gy,  
sbrndd blk, mod hd, f gr, trnsi sb ang  
cal

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

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







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

980  
 985  
 990  
 995  
 1000  
 1005  
 1010  
 1015  
 1020  
 1025  
 1030

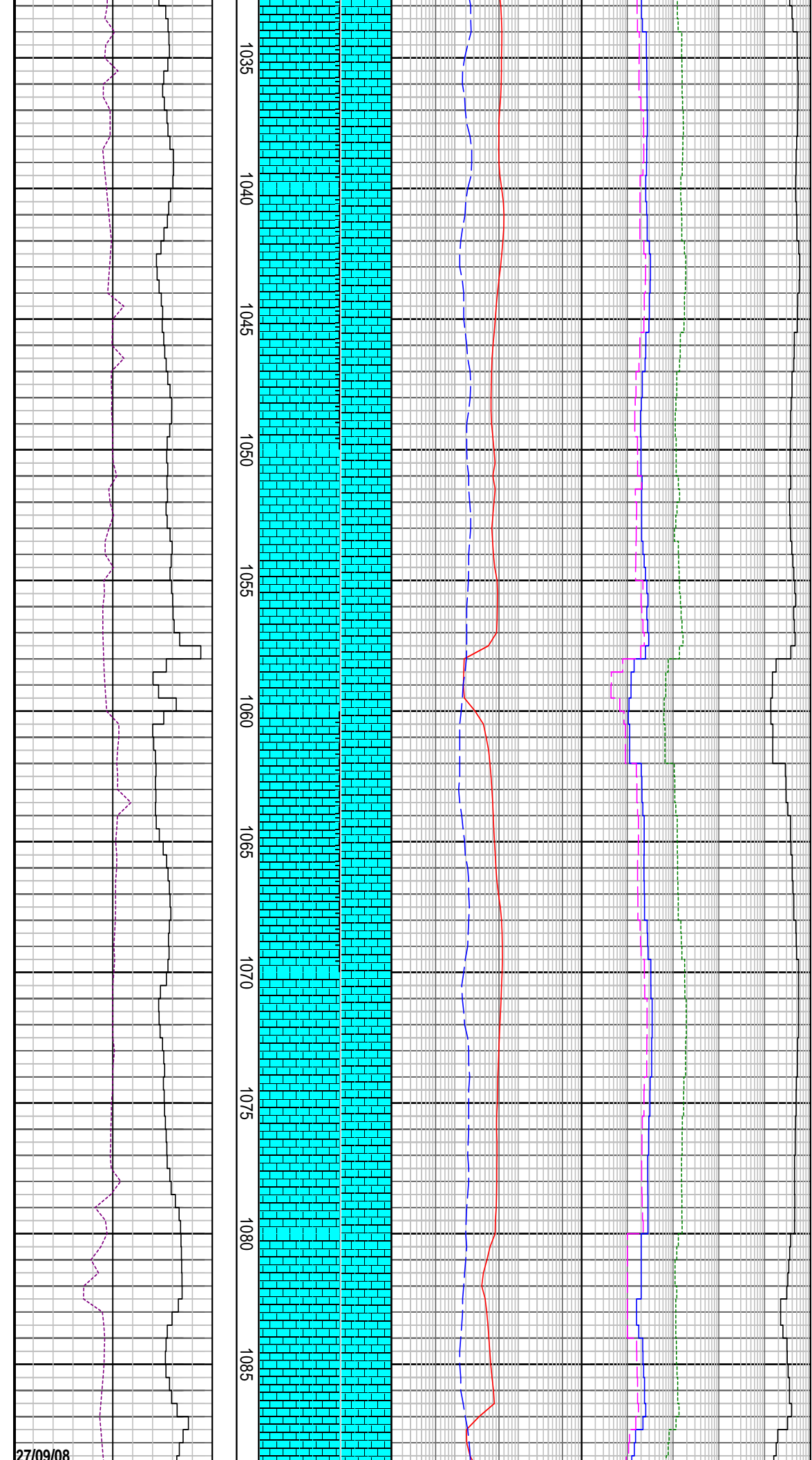
MD: 1015.91m Azi: 23.8°  
 TVD: 1015.9m Incl: 0.11°

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

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

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

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



1035  
1040  
1045  
1050  
1055  
1060  
1065  
1070  
1075  
1080  
1085

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

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

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

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

1090  
1095  
1100  
1105  
1110  
1115  
1120  
1125  
1130  
1135  
1140

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

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

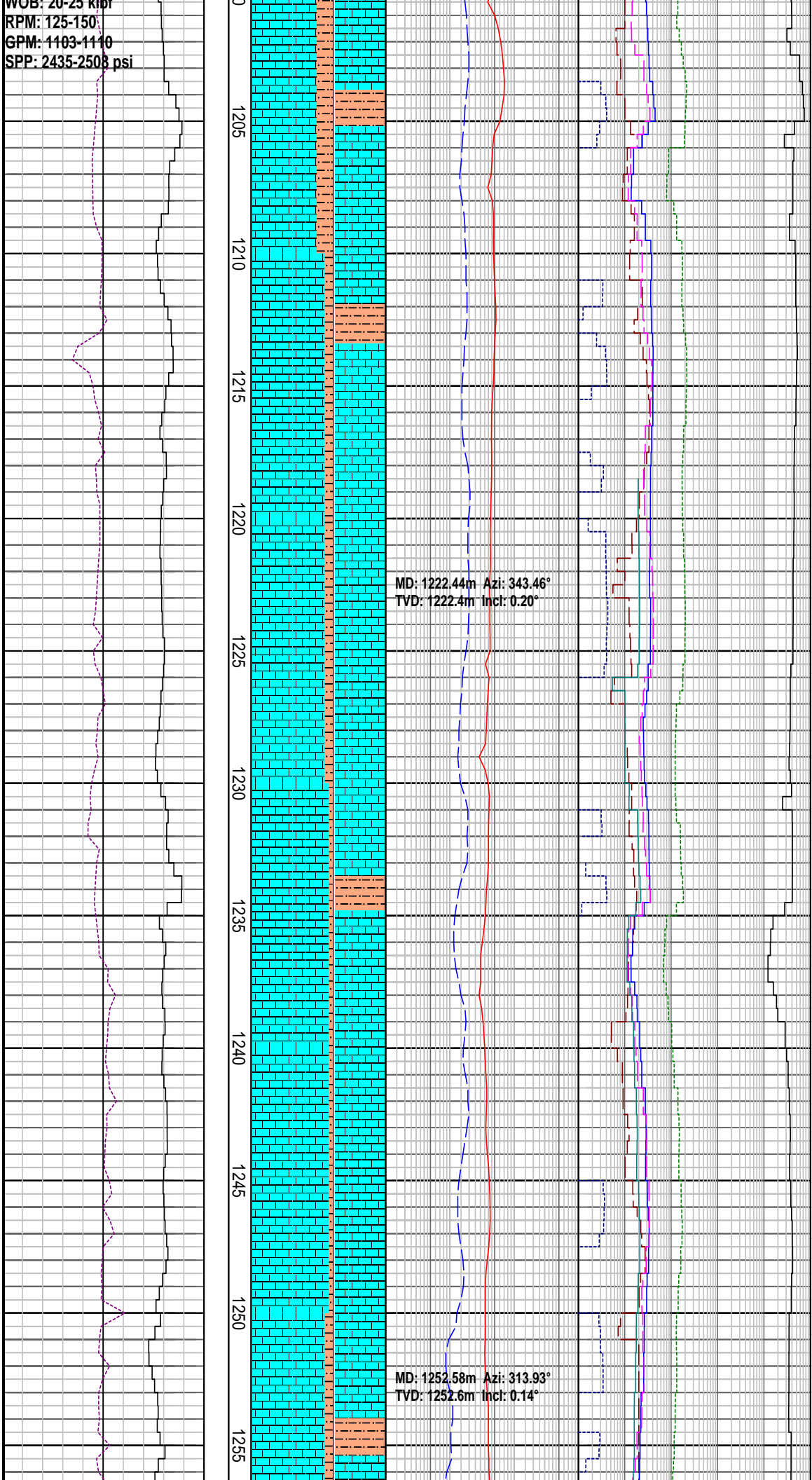
CALCARENITE : lt olv gy-m gy,  
sbrndd-blky, mod hd, f gr, mod srt,  
trnsi sb ang

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

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



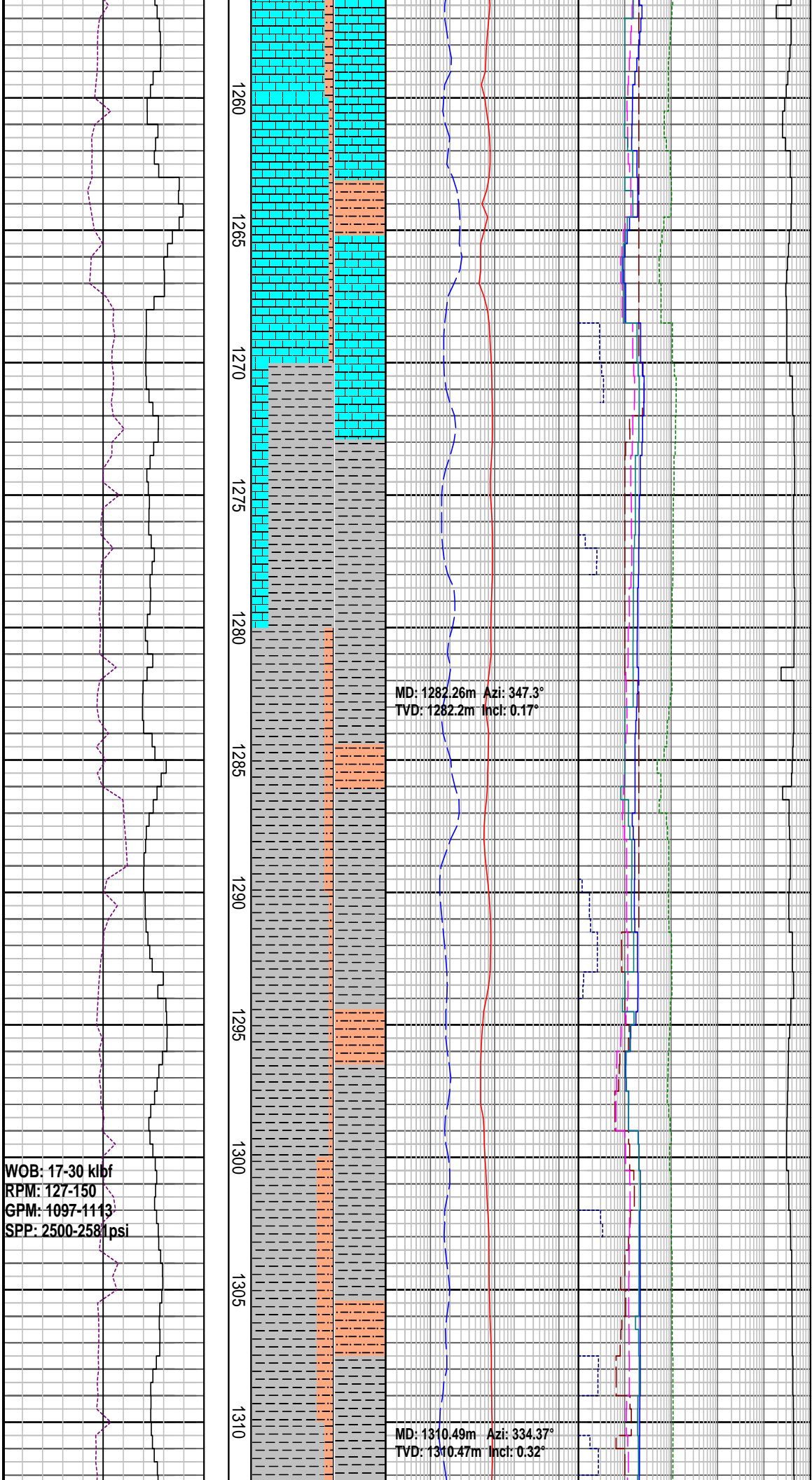
WOB: 20-25 kipf  
RPM: 125-150  
GPM: 1103-1110  
SPP: 2435-2508 psi



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

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

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

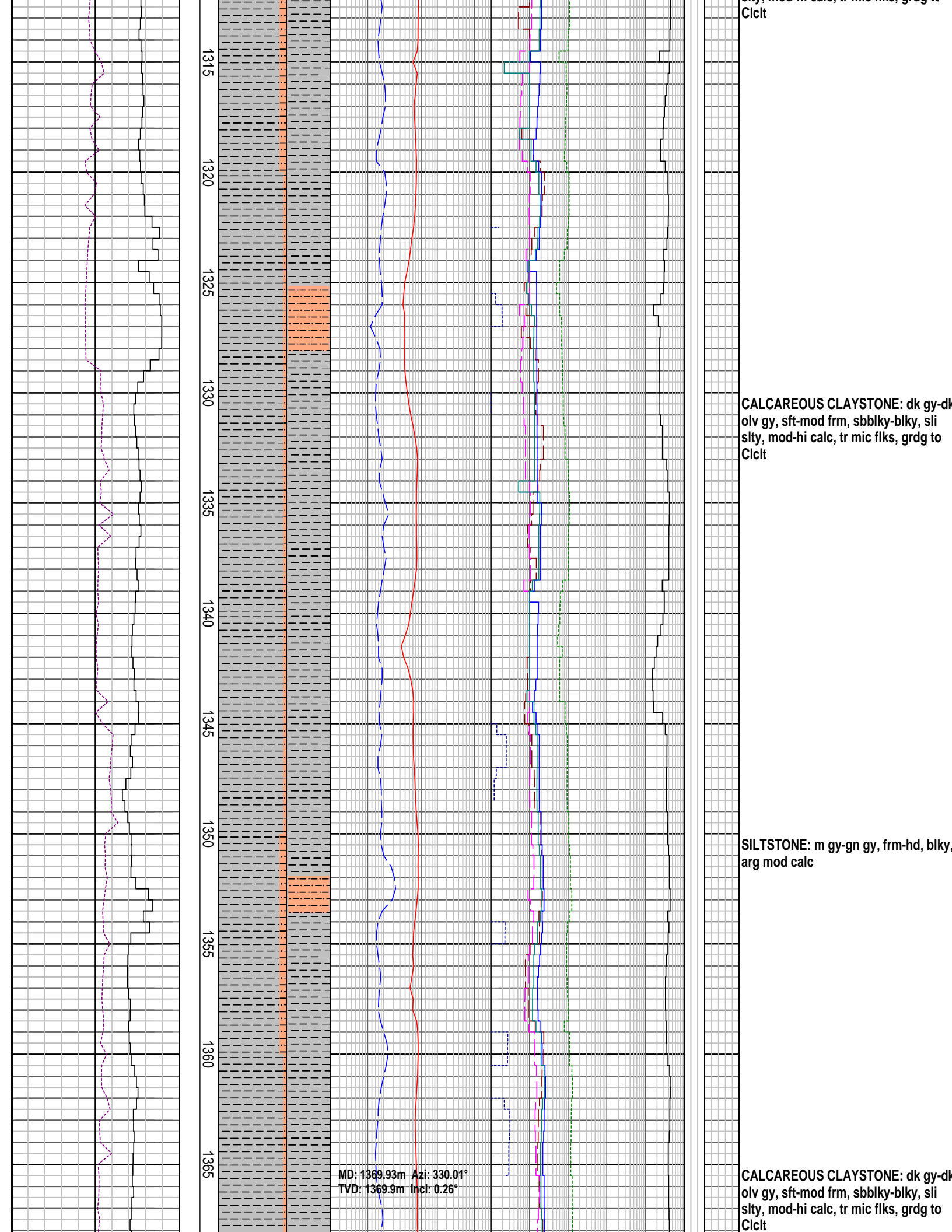


SILTSTONE: m gy-grnsh gy, frm-hd, blk, arg mod calc, tr dk gr-blk vf-med sbrndd glau

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

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

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



1315  
1320  
1325  
1330  
1335  
1340  
1345  
1350  
1355  
1360  
1365

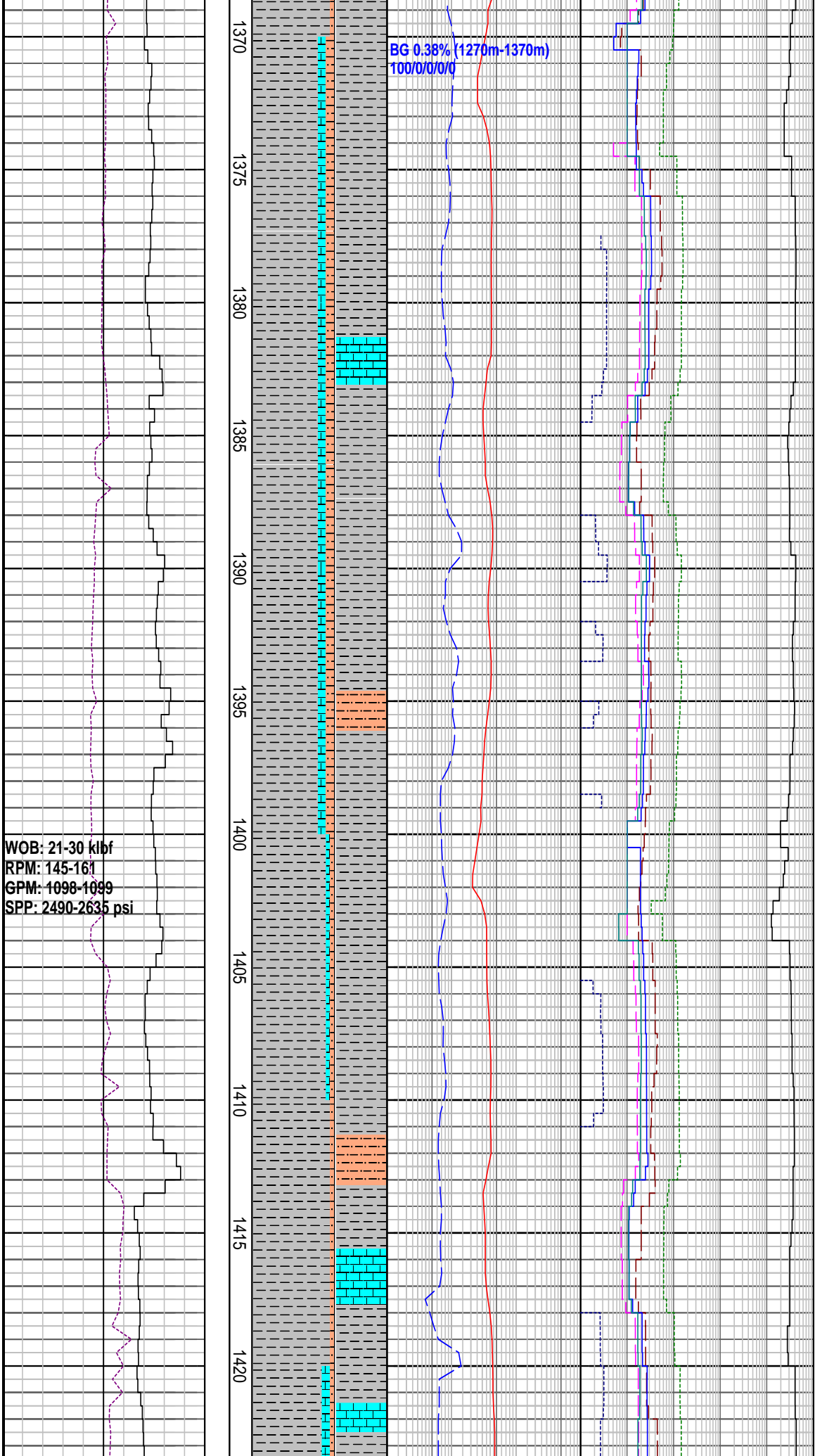
gy, mod hi calc, tr mic filks, grdg to  
ClcIt

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

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

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

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



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

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

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

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

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



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

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

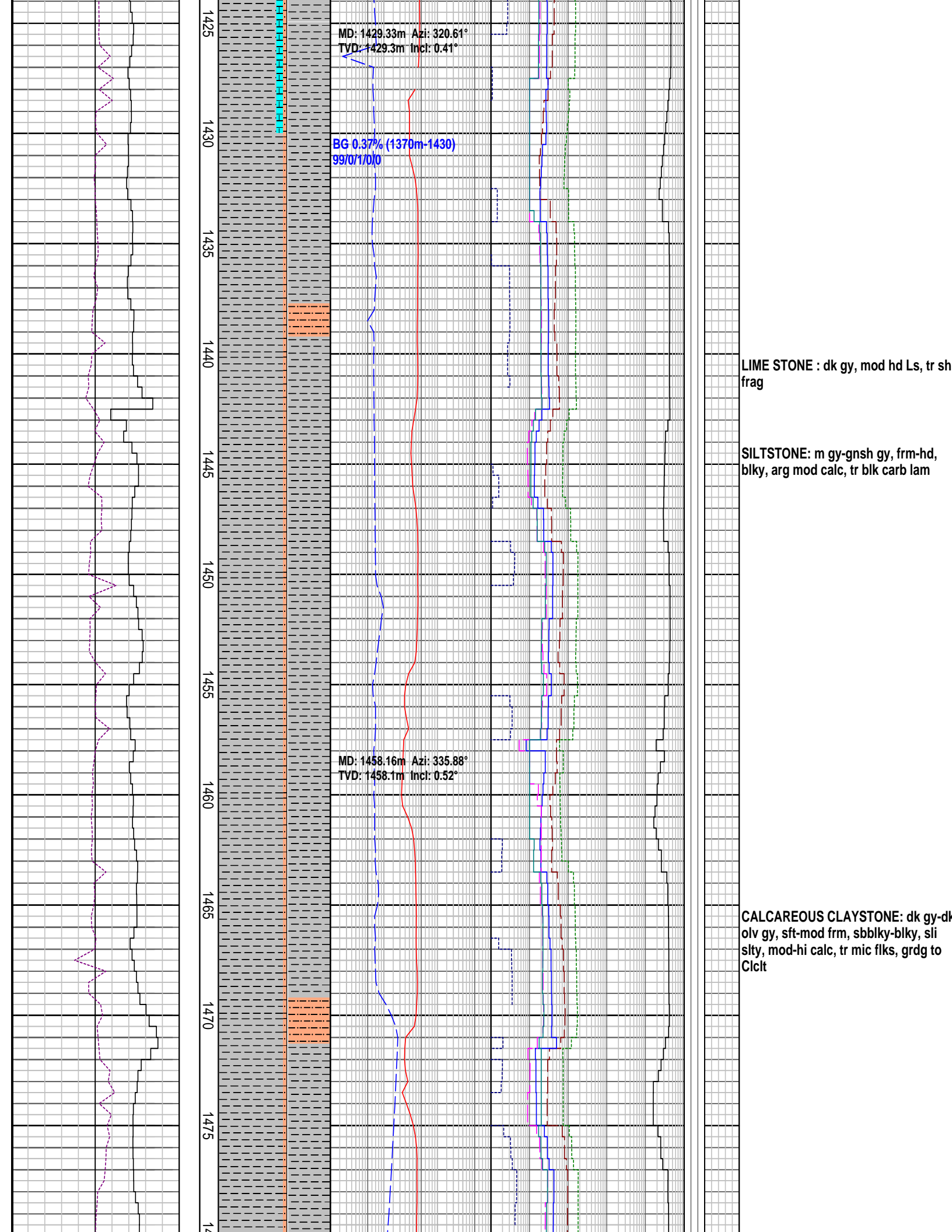
BG 0.37% (1370m-1430)  
99/0/1/0/0

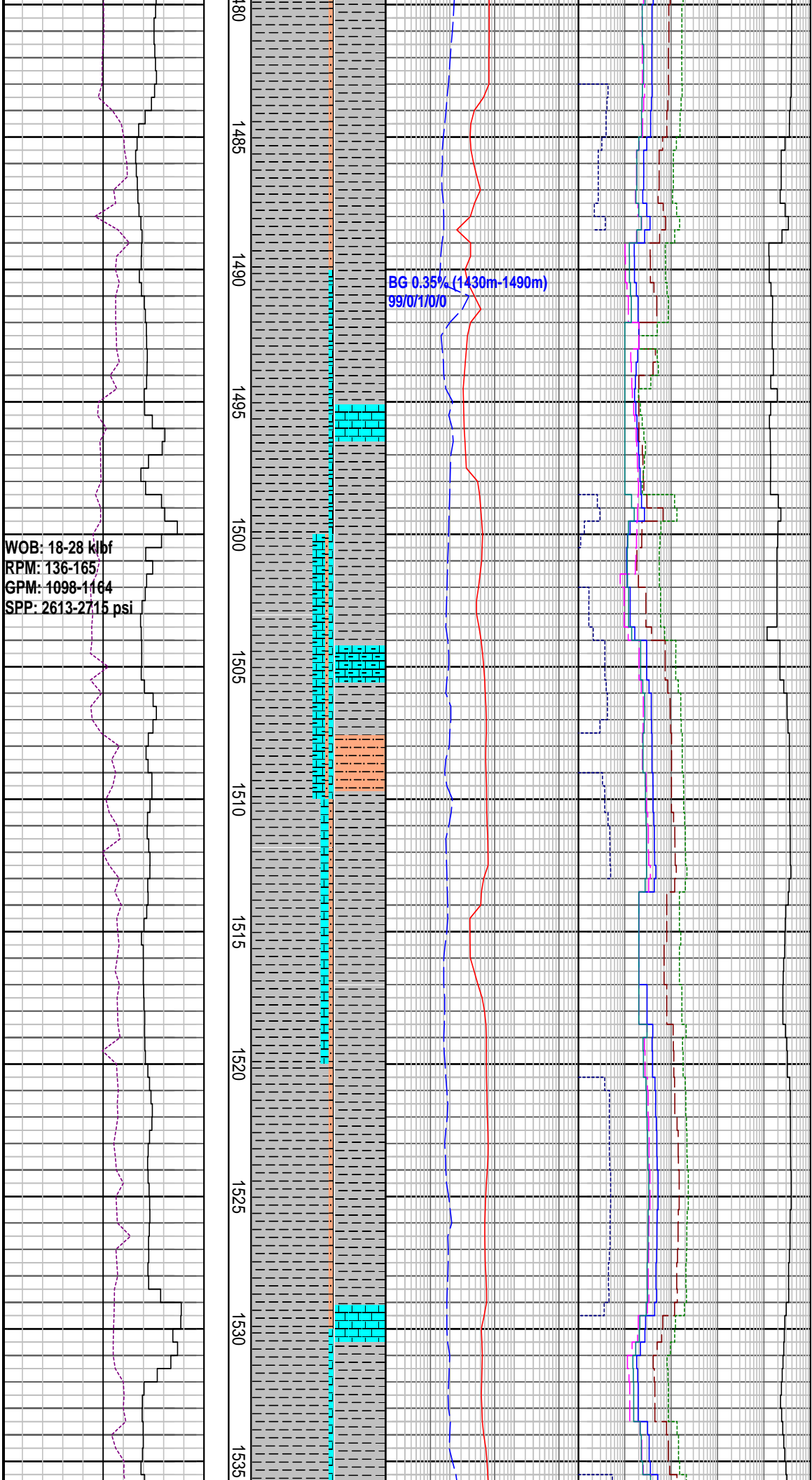
MD: 1458.16m Azi: 335.88°  
TVD: 1458.1m Incl: 0.52°

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

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

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



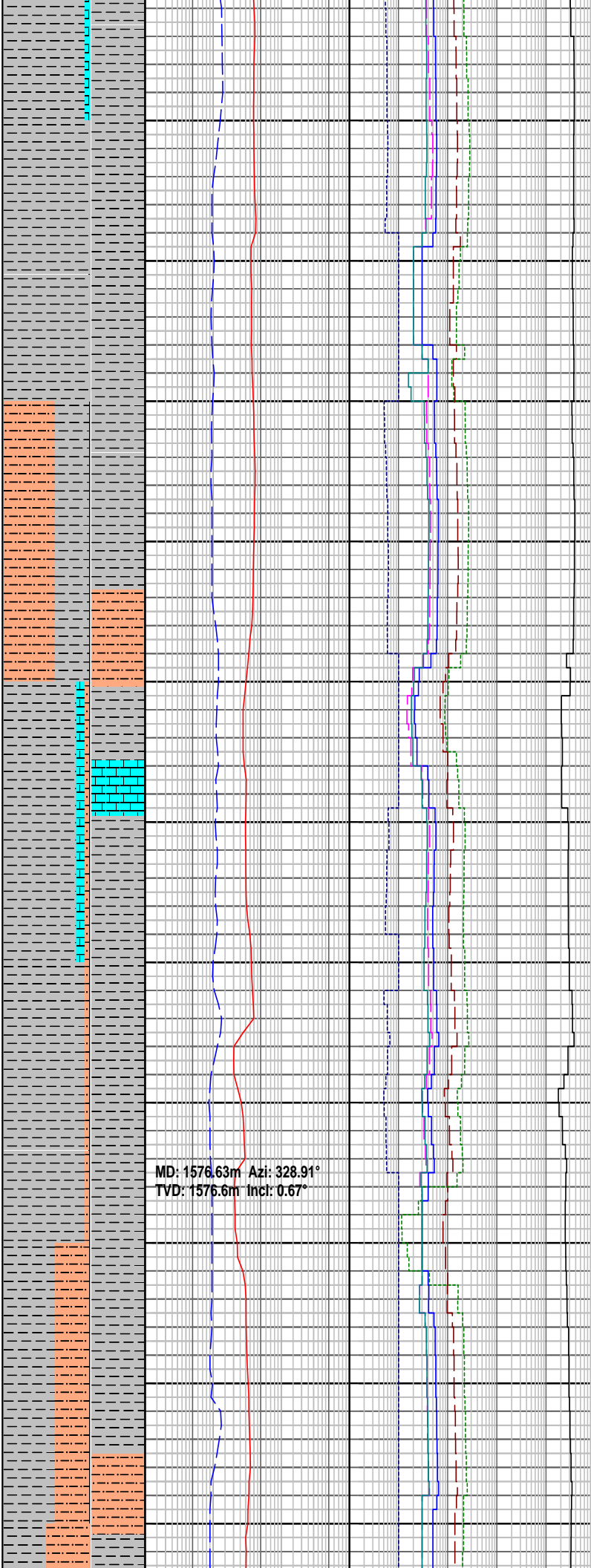


CALCARENITE : yel gy-lt olv gy,  
 sbrndd-blky, mod hd, f gr, trnsl sb  
 ang

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

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

1540  
1545  
1550  
1555  
1560  
1565  
1570  
1575  
1580  
1585  
1590



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

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

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

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

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

1595  
1600  
1605  
1610  
1615  
1620  
1625  
1630  
1635  
1640  
1645

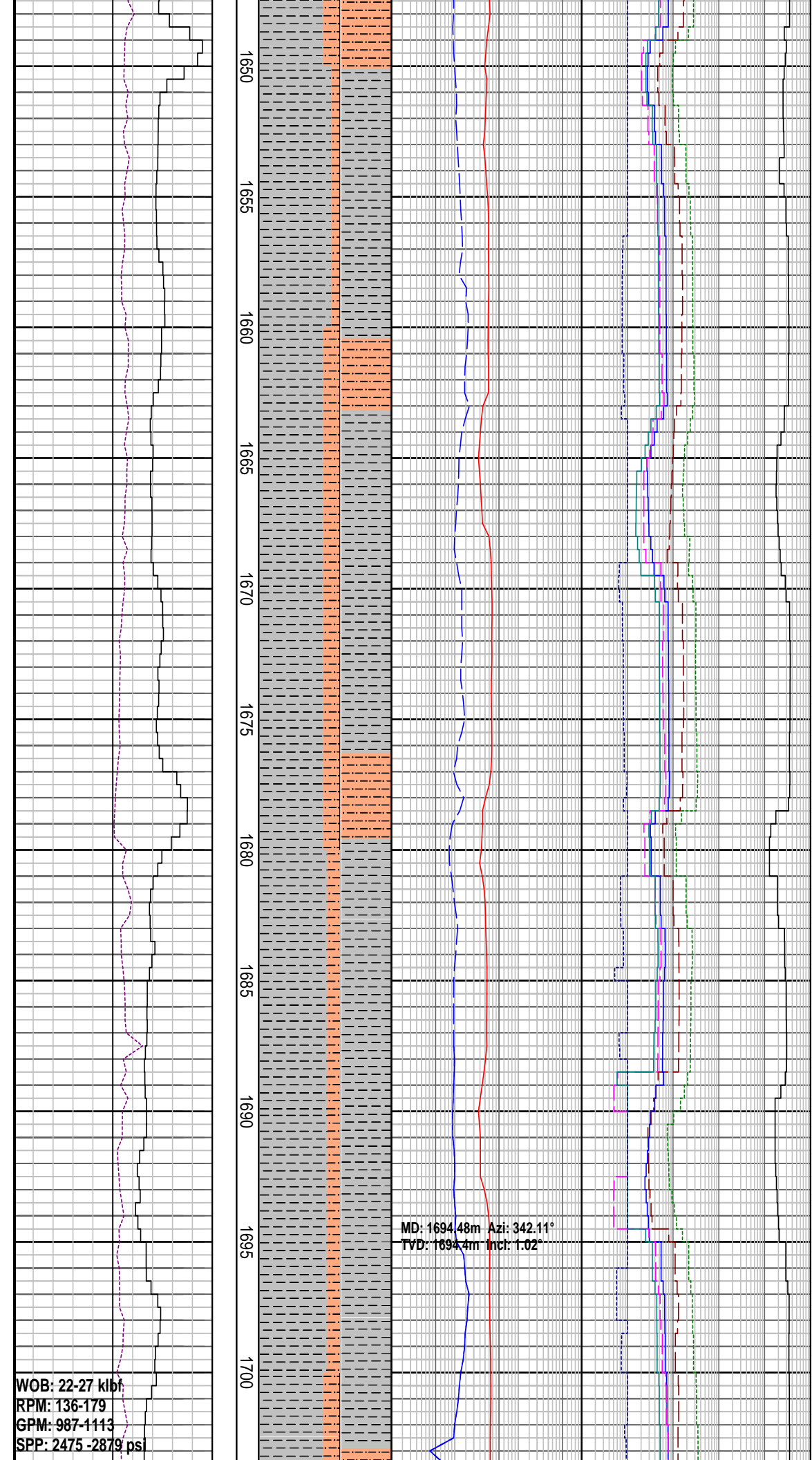
MD: 1635.30m Azi: 340.80°  
TVD: 1635.3m Incl: 0.88°

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

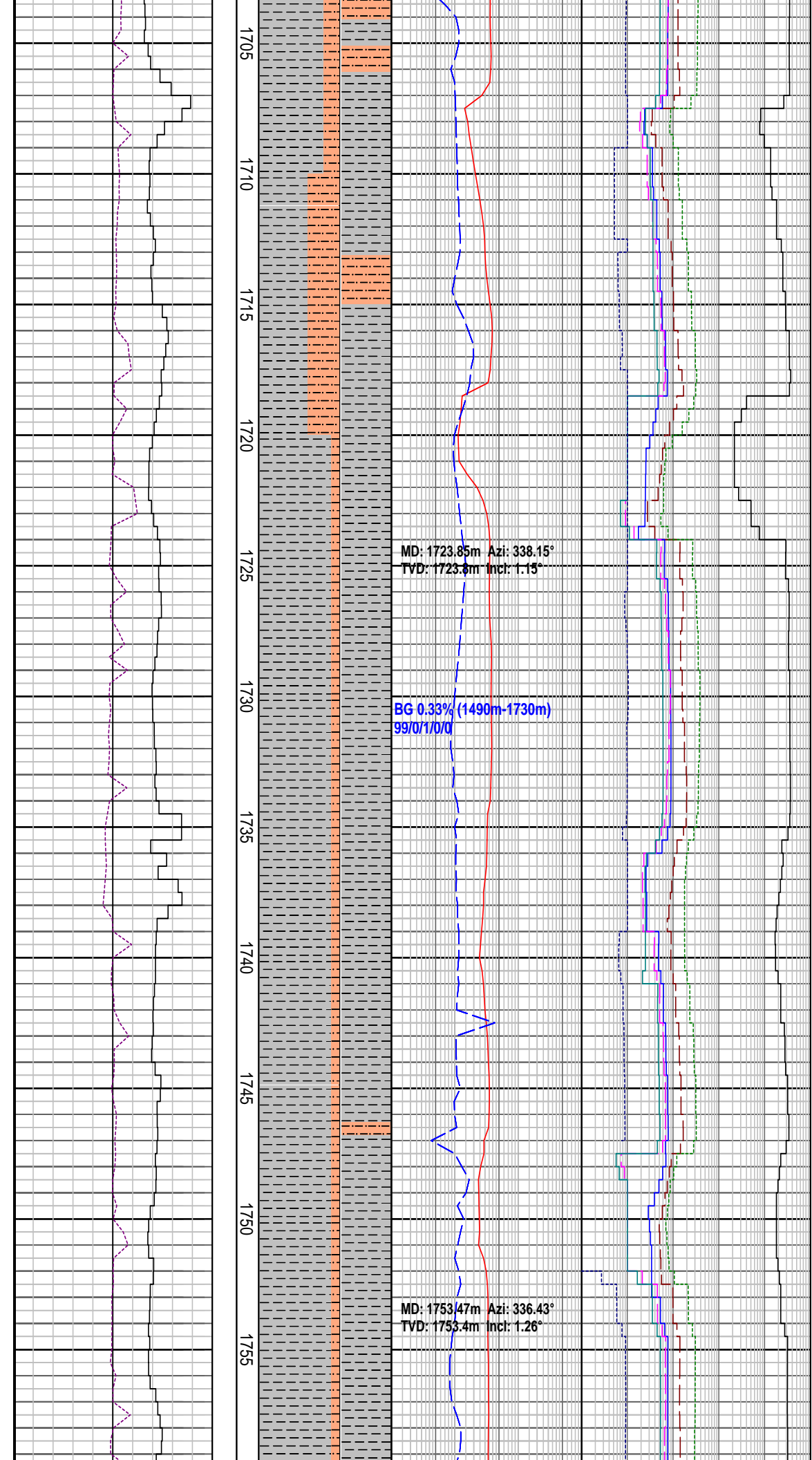
SILTSTONE: m gy-gnsh gy, frm-hd,  
blky, arg mod calc, tr blk carb lam



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

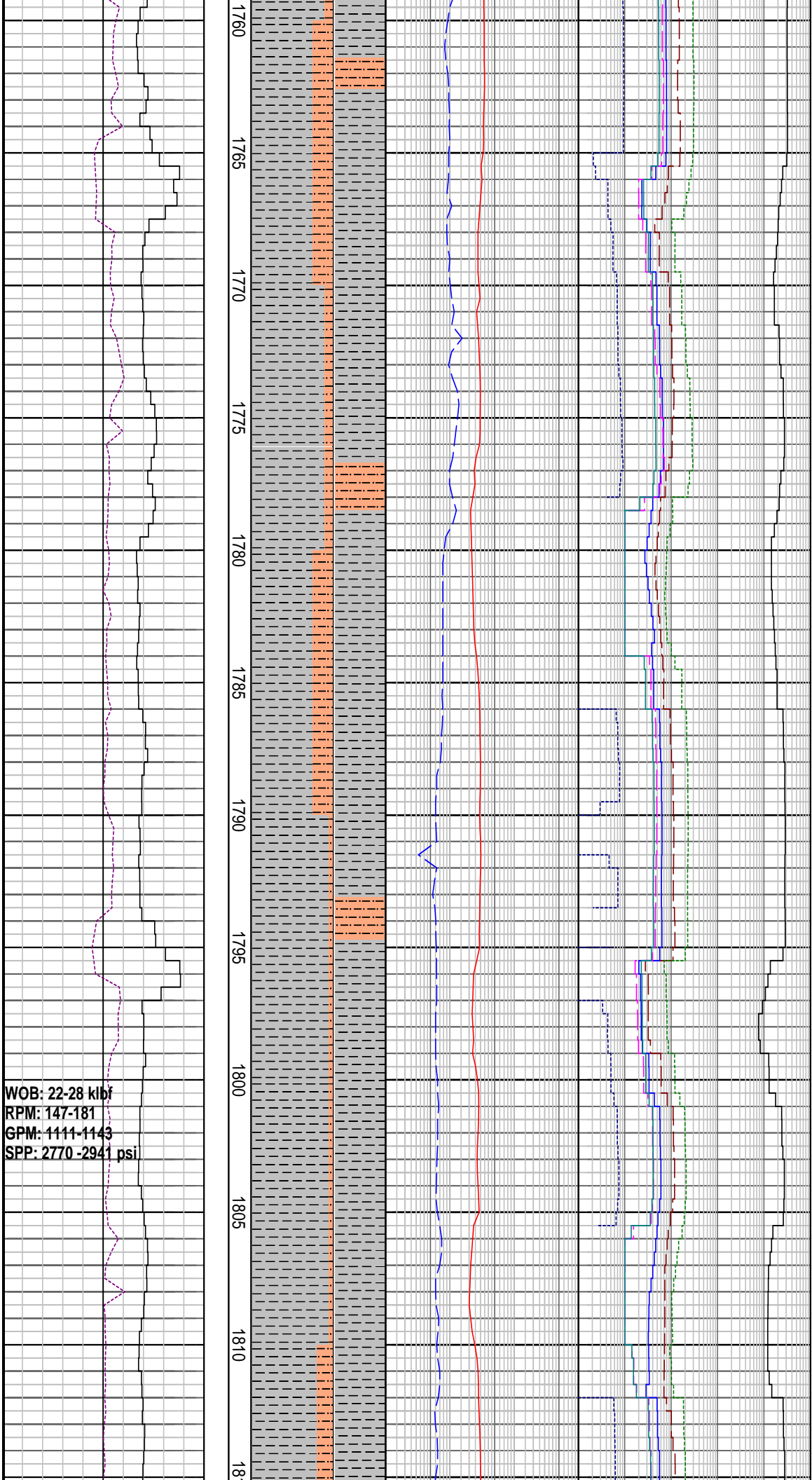
WOB: 22-27 klf  
RPM: 136-179  
GPM: 987-1113  
SPP: 2475 -2879 psi

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



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

**CALCAREOUS CLAYSTONE:** dk gy-dk olv gy, sft-mod frm, sbblk-bkly, sli slty, mod-hi calc



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

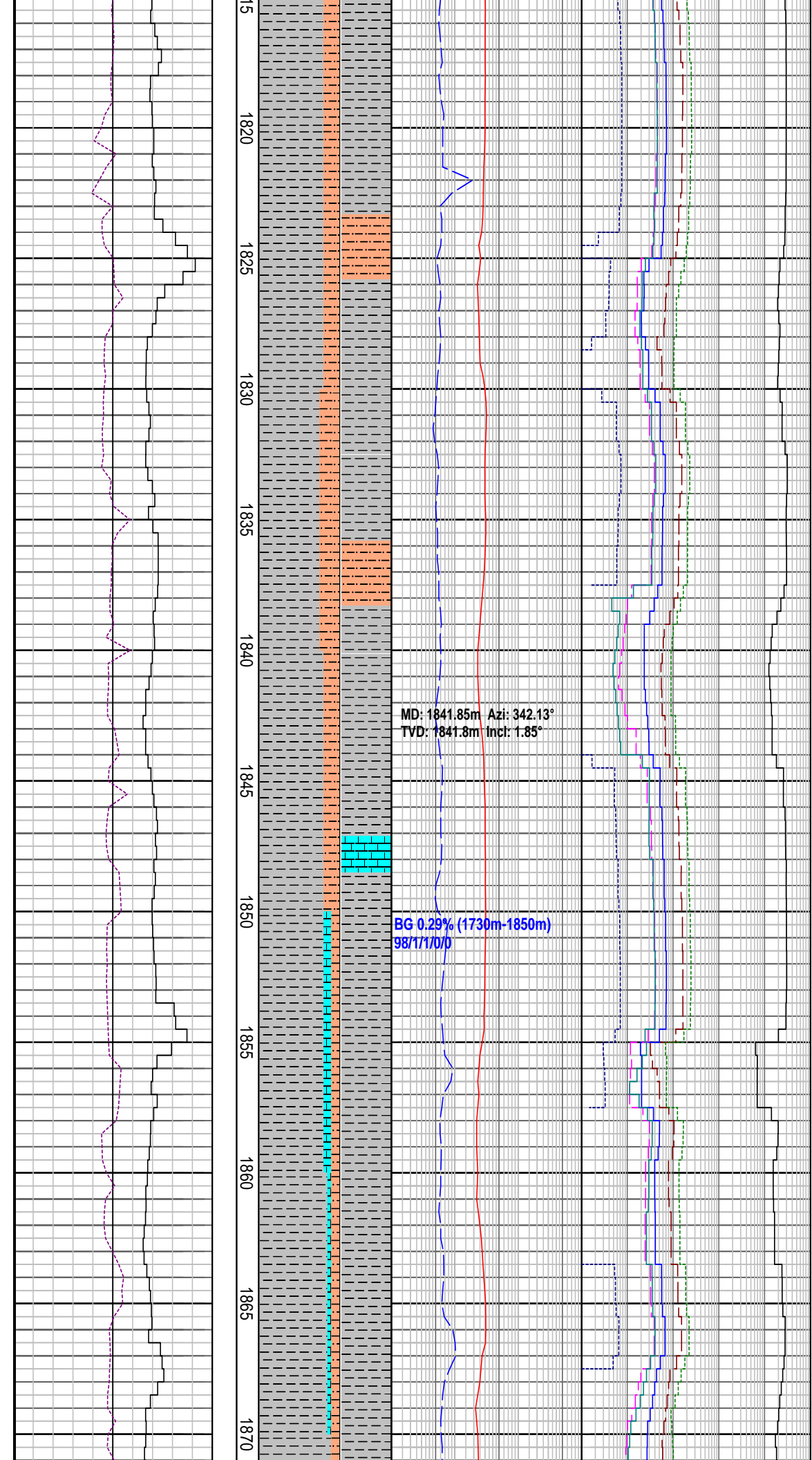
SILTSTONE: m gy-gnsh gy, frm-hd, blk, arg mod calc, tr blk carb lam, tr pyr

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

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

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

1760  
1765  
1770  
1775  
1780  
1785  
1790  
1795  
1800  
1805  
1810  
18



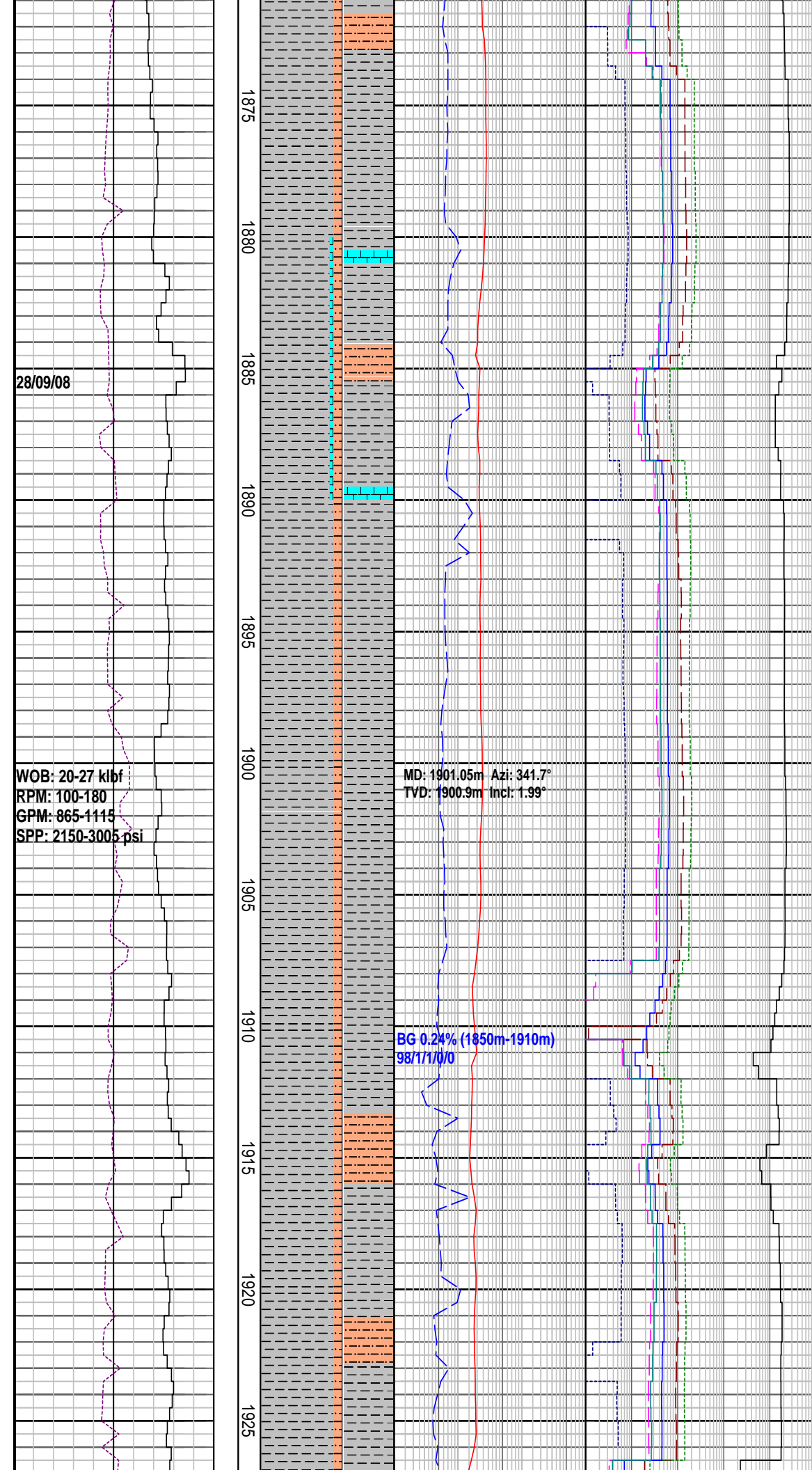
SILTSTONE: m gy-gnsh gy, frm-hd, blk, arg mod calc, tr blk carb lam

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

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

CALCAREOUS CLAYSTONE: dk gy-dk



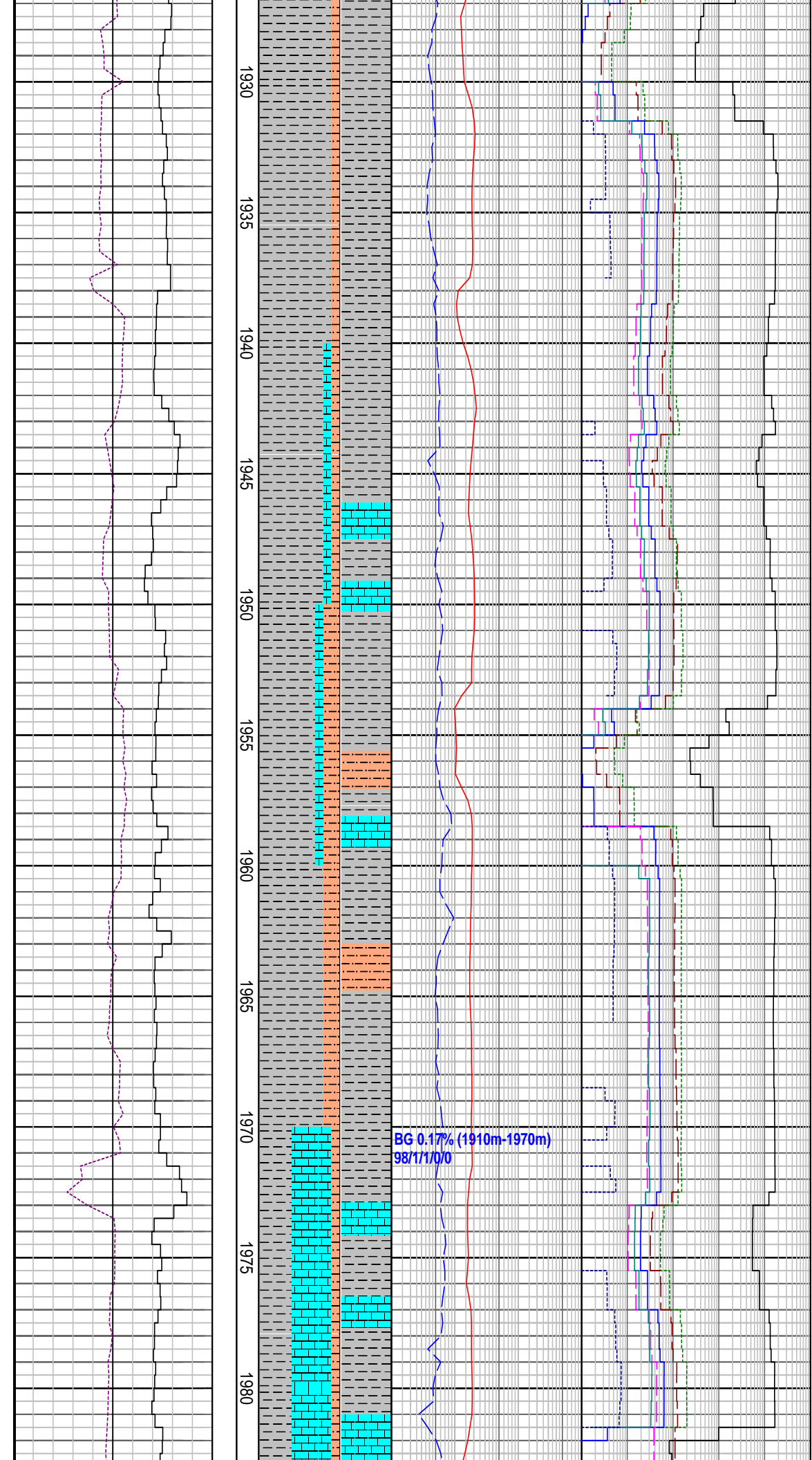


olv gy, sft-mod frm, sbblky-blky, sl  
 slty, mod-hi calc

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

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

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



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

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

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

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

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

1985  
1990  
1995  
2000  
2005  
2010  
2015  
2020  
2025  
2030  
2035

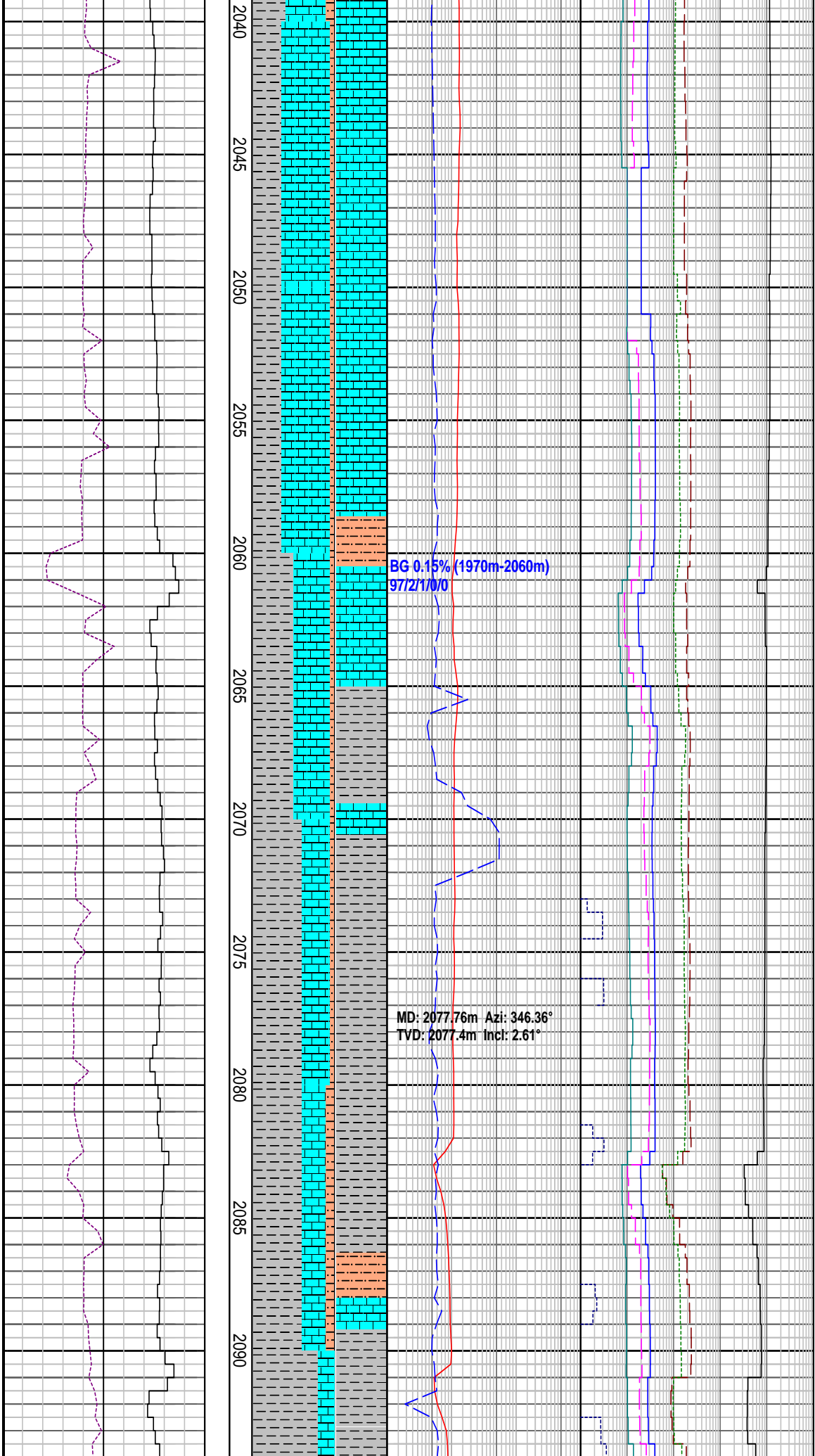
MD: 2018.76m Azi: 344.0°  
TVD: 2018.5m Incl: 2.33°

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

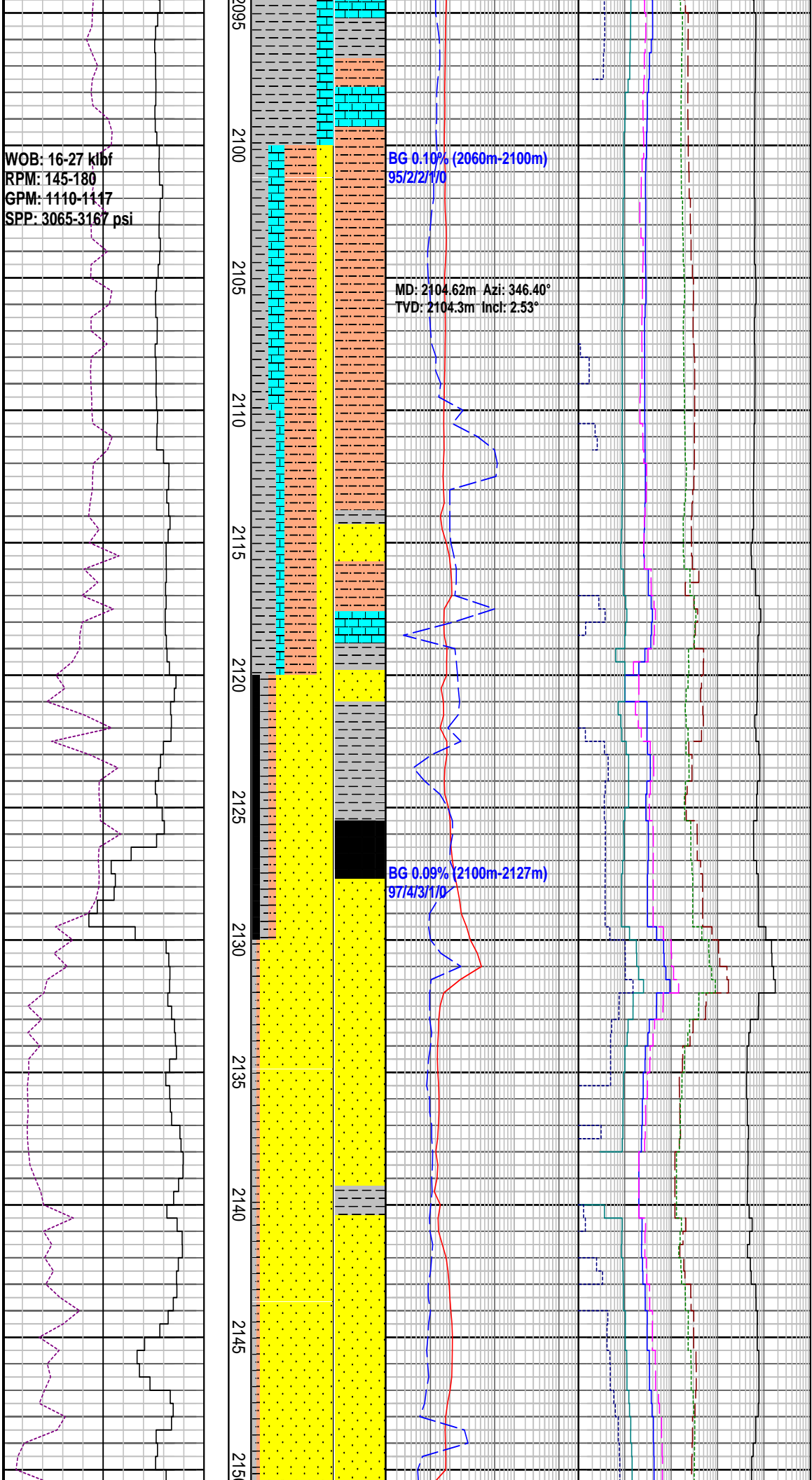
GLAUCONOTIC SANDSTONE: wh-lt  
gy, gnsh gy, frm-hd, sbbkly, vf-m,  
mod srt, sbsng qtz, com dk gy f-m gr,  
sbang-rndd galu, frm-hd, calc cmt

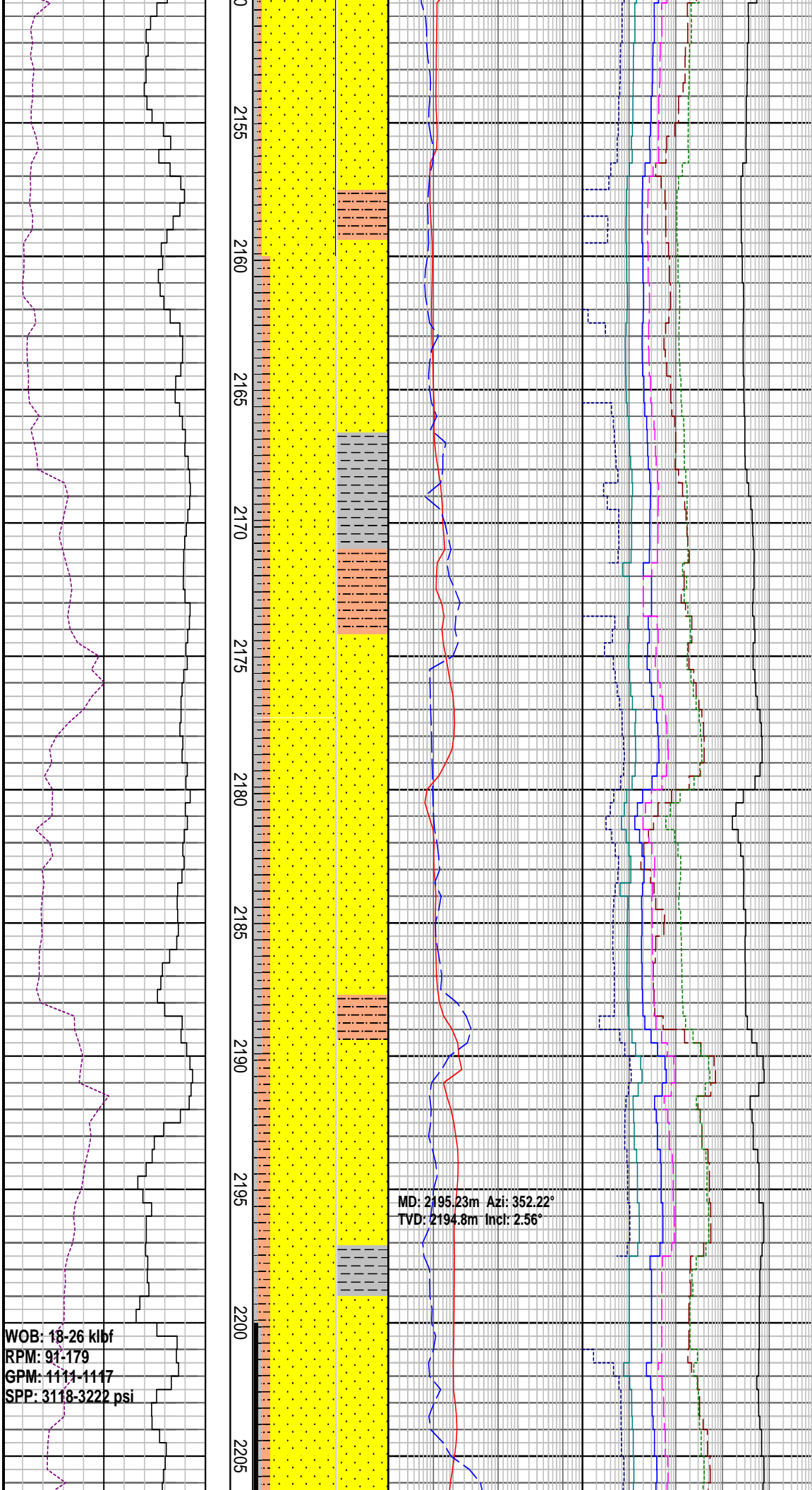
COAL : dk brn-blk, hd, ang, conch  
frac

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

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

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





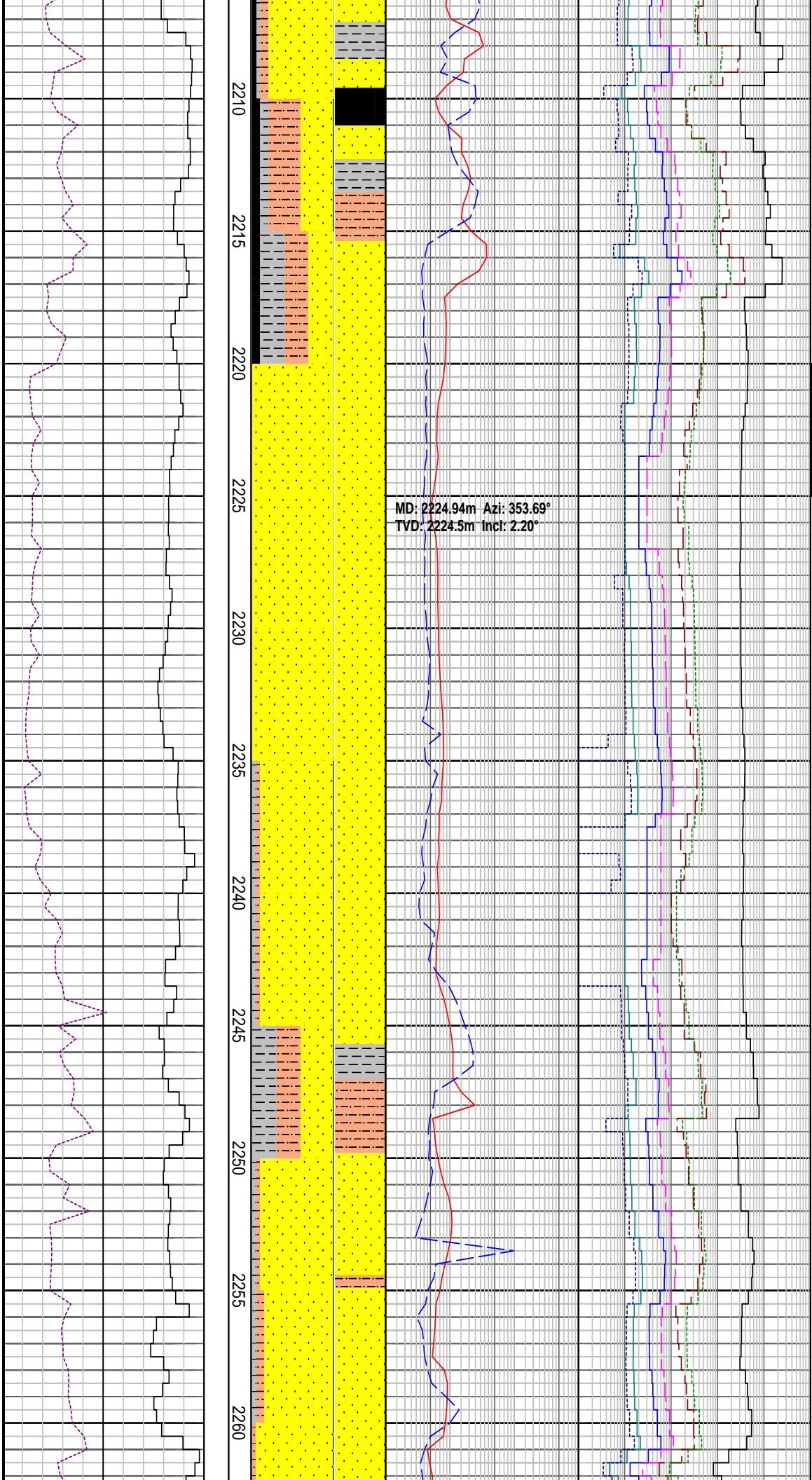
SILTSTONE: mod brn-olv gy, frm-hd, blk, arg, n calc

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

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

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

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



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

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

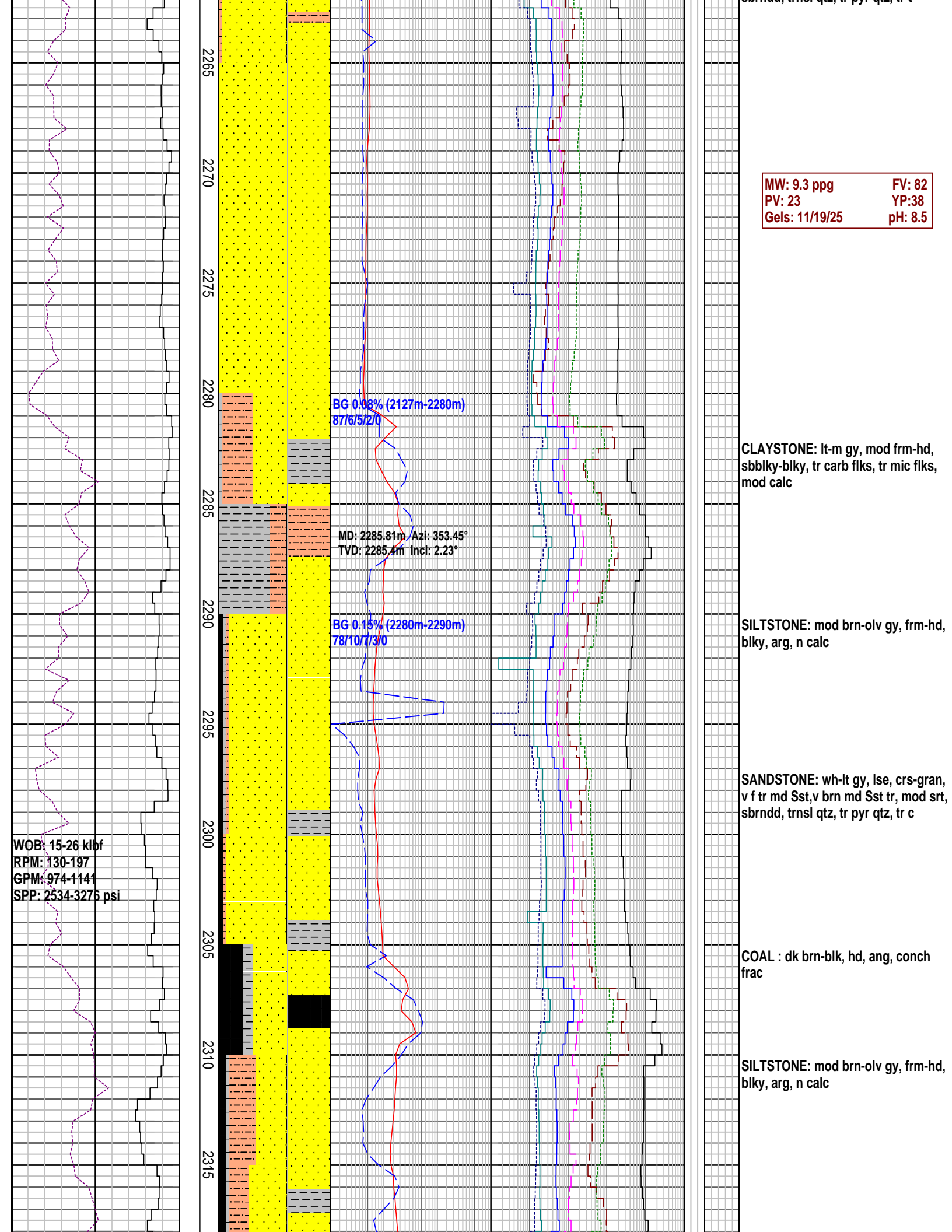
SANDSTONE: wh-lt gy, lse, crs-gran, v f tr md Sst, v brn md Sst tr, mod srt, sbrndd, trnsl qtz, tr pyr qtz, tr c

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

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

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

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



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

BG 0.08% (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 klbf  
RPM: 130-197  
GPM: 974-1144  
SPP: 2534-3276 psi

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

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

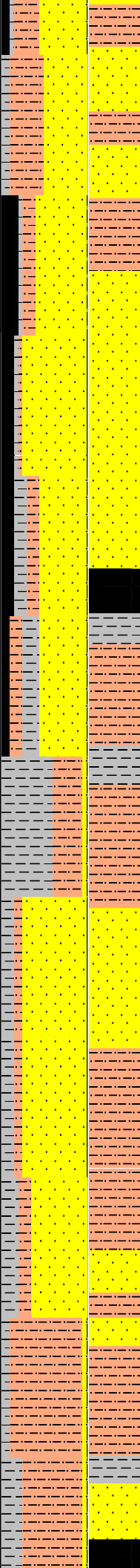
SANDSTONE: wh-lt gy, lse, crs-gran, v f tr md Sst, v brn md Sst tr, mod srt, sbrndd, trnsl qtz, tr pyr qtz, tr c

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

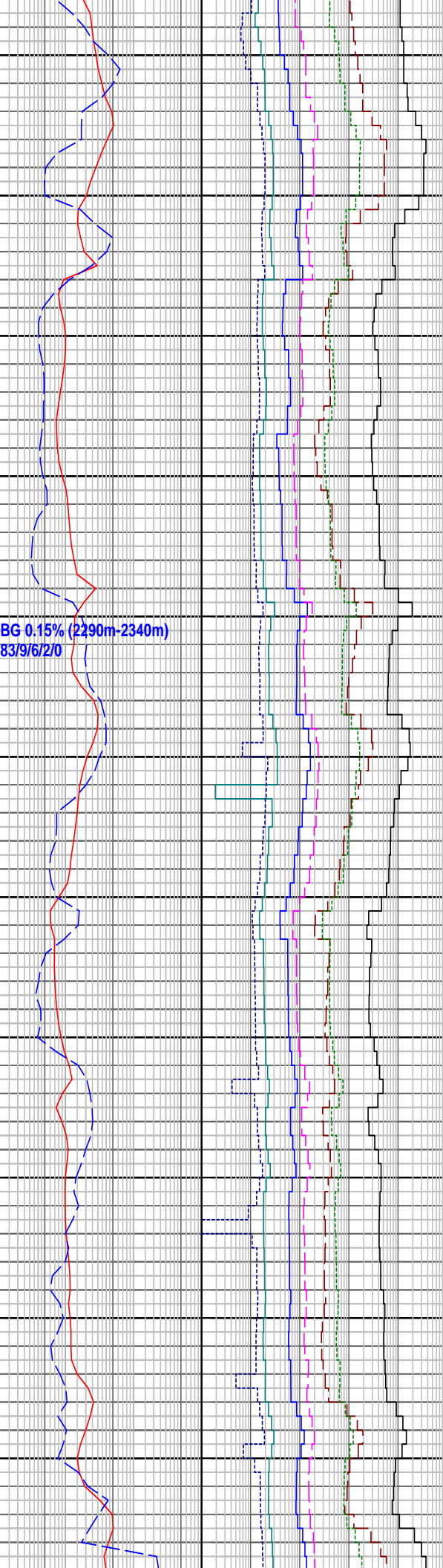
SILTSTONE: mod brn-olv gy, frm-hd, blk, arg, n calc



2320  
2325  
2330  
2335  
2340  
2345  
2350  
2355  
2360  
2365  
2370



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



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

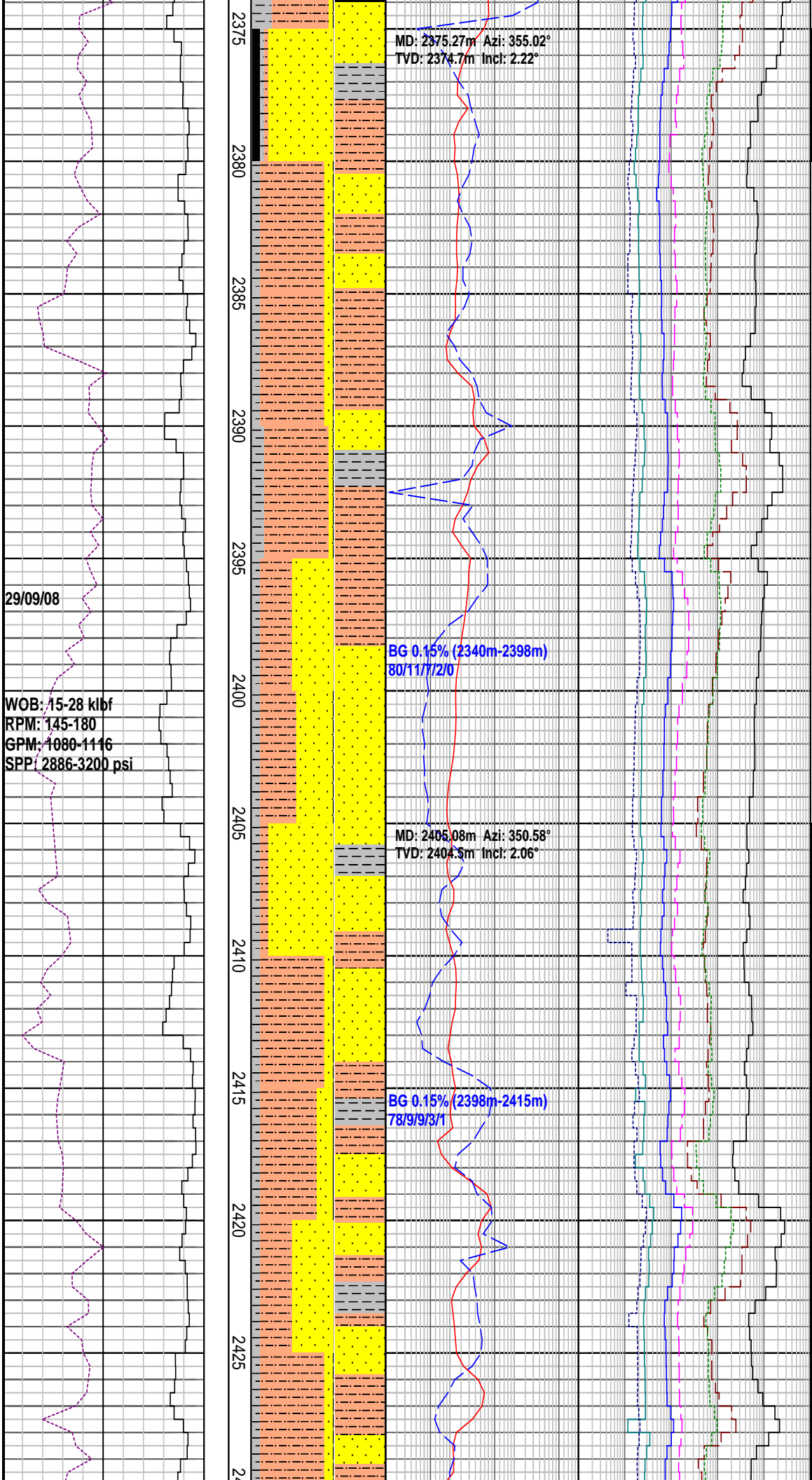
COAL : dk brn-blk, hd, ang, conch frac

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

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

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

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



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

SANDSTONE: wh-lt gy, lse, crs-gr, v f tr mud sst, v brn mud sst tr, mod srt, sbrndd, trnsl qtz, tr pyr qtz, tr coal

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

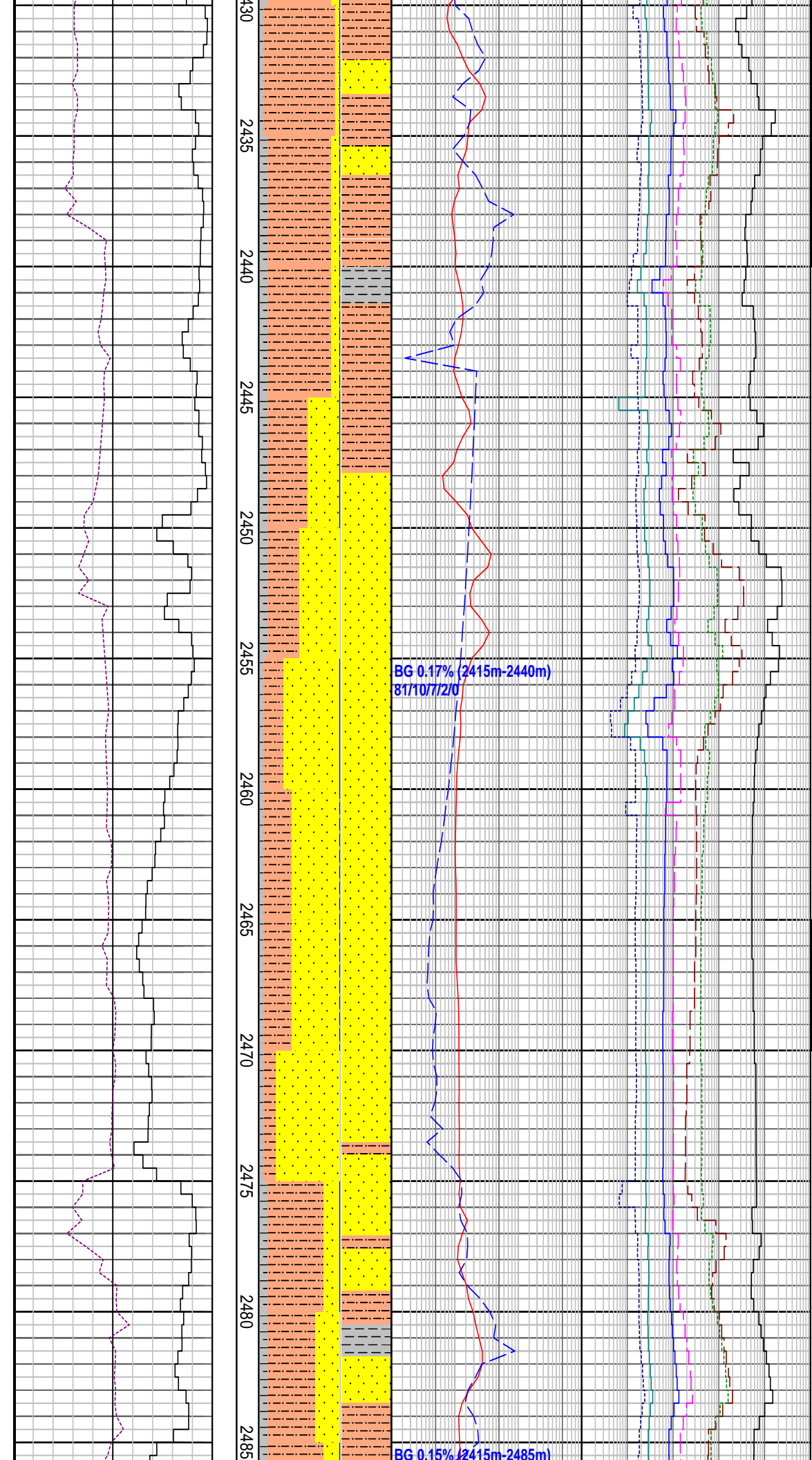
SILTSTONE: mod olv brn-dk gy, frm-hd i/p, blk, arg, carb lam, n calc

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

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

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

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



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

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

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

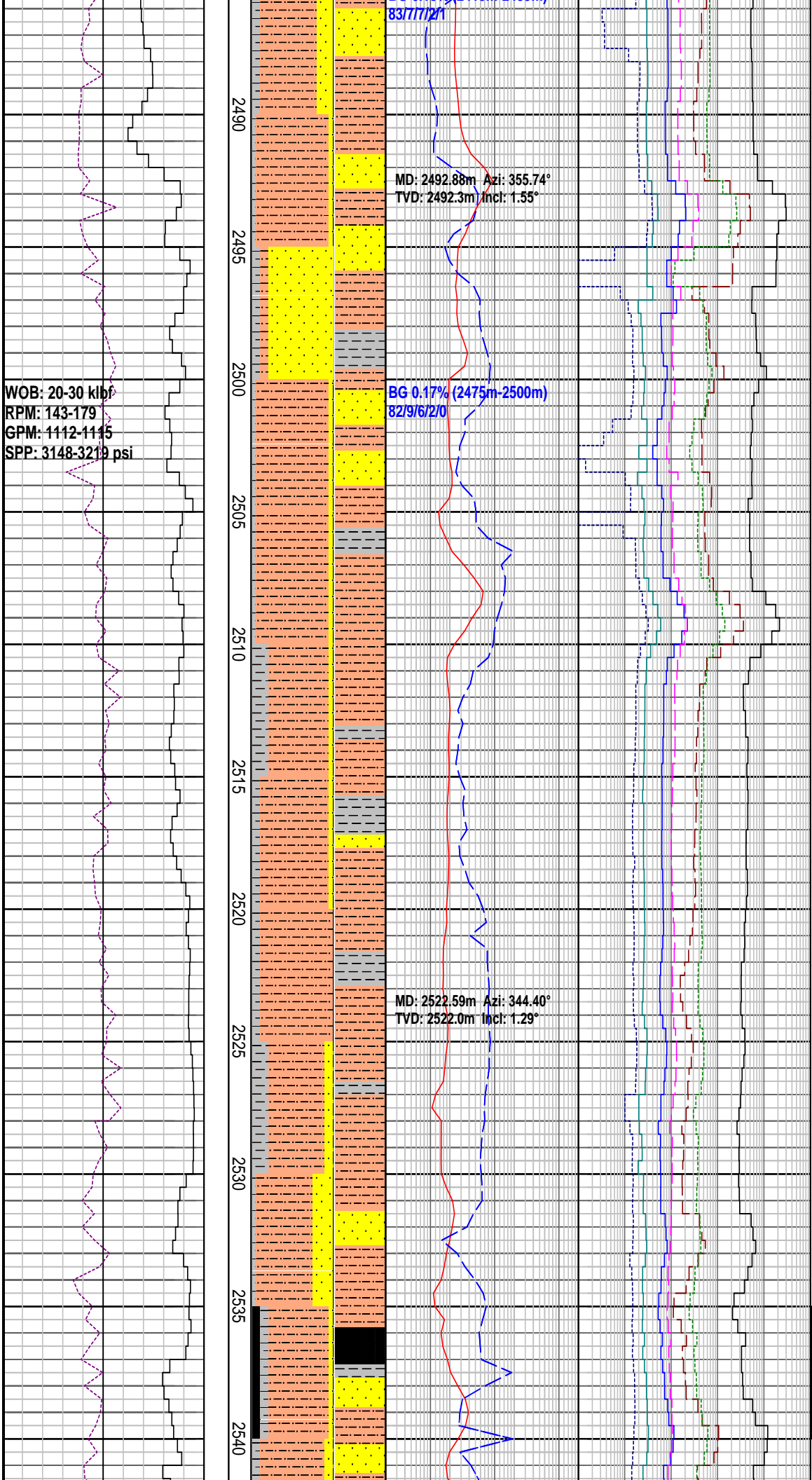
SANDSTONE: lse, lt-m gy, clr-trnsp, frm-hd, f-m, wl srt sbang qtz, sbrndd-rndd, mod srt, tr mic slty mtrx, com carb lam, n calc, inf vis por, tr xln pyr

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

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

BG 0.17% (2415m-2440m)  
81/10/7/20

BG 0.15% (2415m-2485m)



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-f, wl srt, sbrndd-rndd, mod srt, tr mic slty mtrx, com carb lam, n calc, inf vis por, tr xln pyr

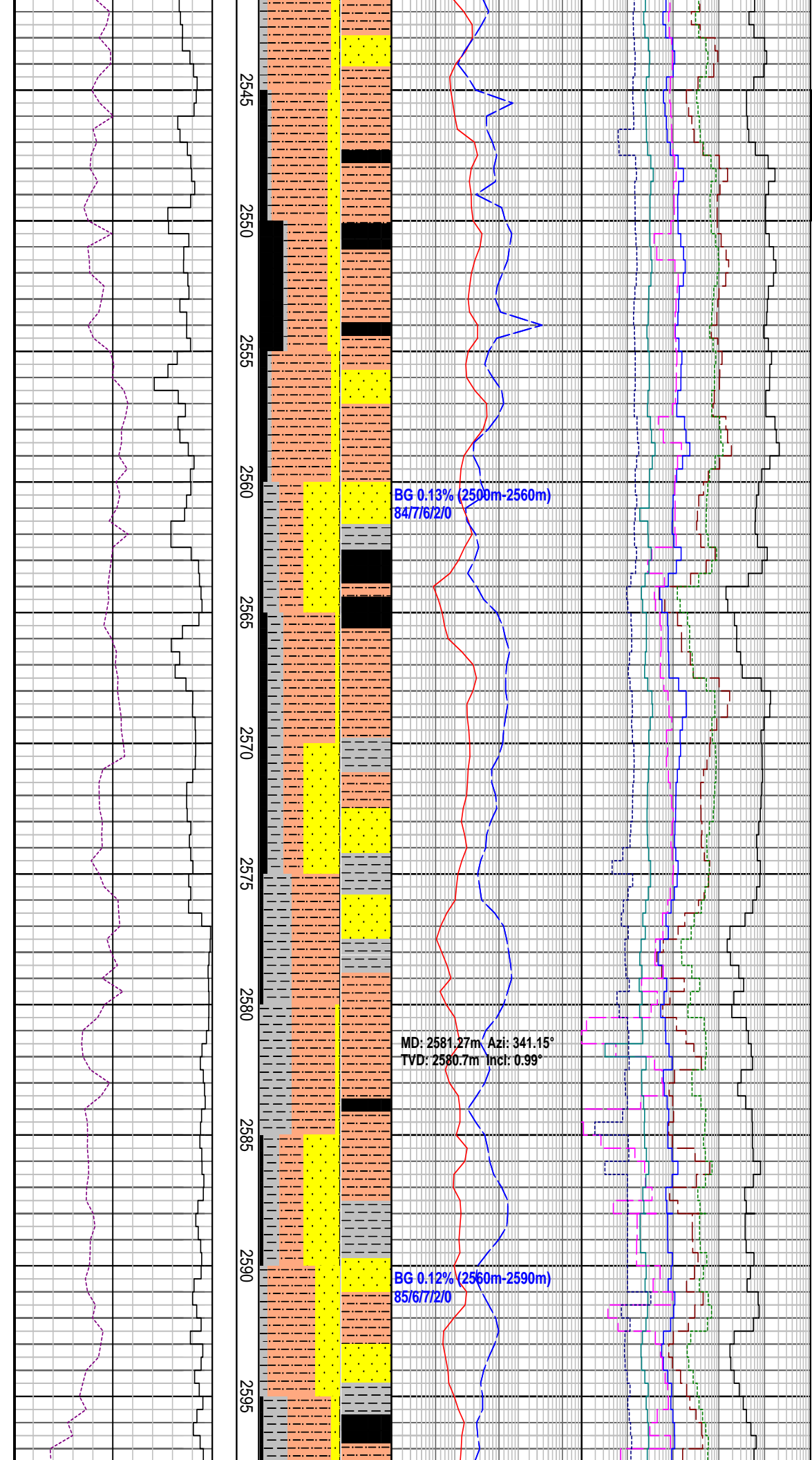
CLAYSTONE: lt gy- m gy, mod frm, disp i/p, sbbkly-blky, sli slt, tr mic, tr carb flks, mod calc

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

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

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

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



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

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

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

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

COAL: dk brn-blk, hd, blkly- conch frag

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

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

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

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

COAL: dk brn-blk, hd, blkly- conch frag

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

2600  
2605  
2610  
2615  
2620  
2625  
2630  
2635  
2640  
2645  
2650

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

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

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

30/09/08

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

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

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

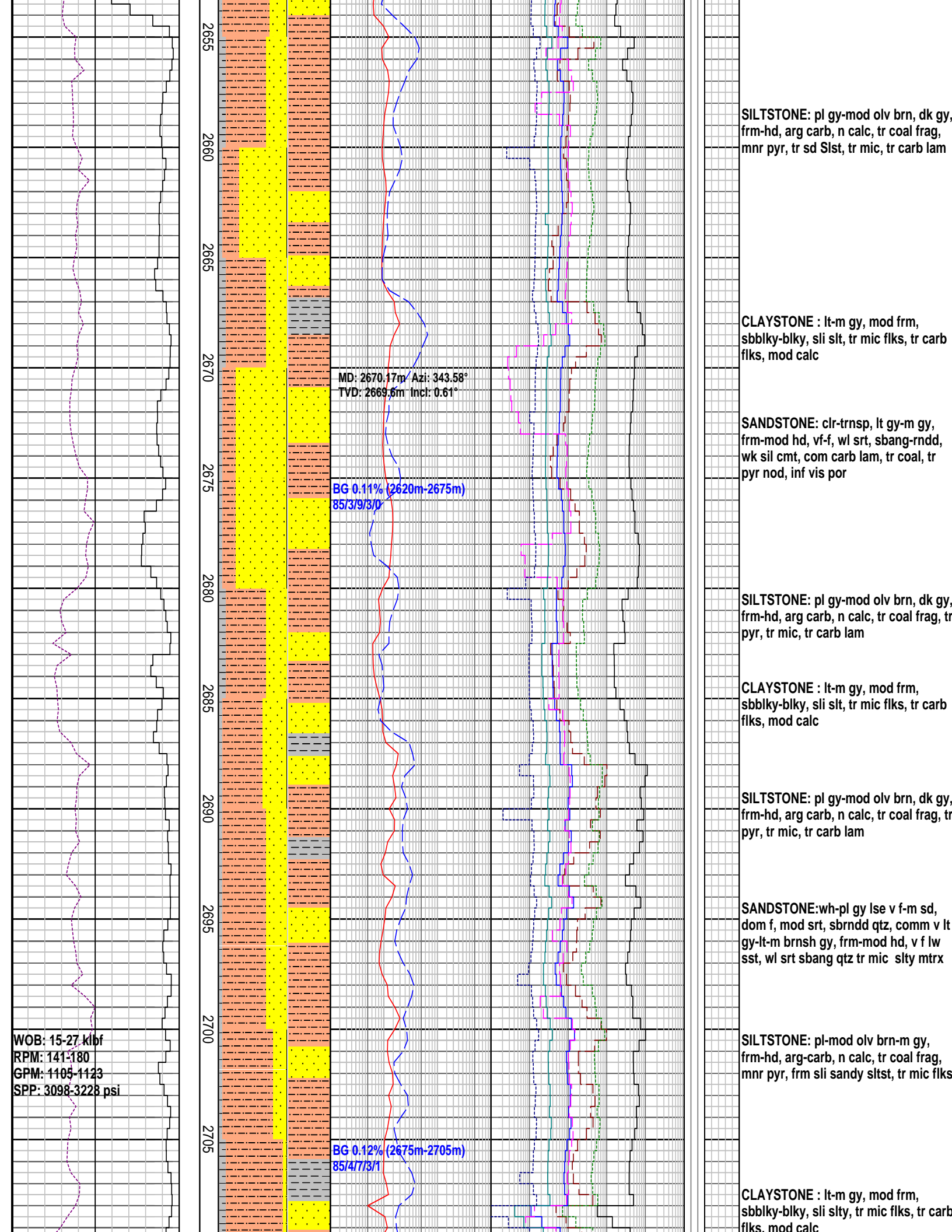
SILTSTONE: mod olv brn-mod gy, frm-hd, arg carb, n calc, tr coal frag, mnr pyr, tr sst, tr mic, tr carb lam

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

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

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

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



2655  
2660  
2665  
2670  
2675  
2680  
2685  
2690  
2695  
2700  
2705

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

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

BG 0.12% (2675m-2705m)  
85/4/7/3/1

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

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

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

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

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

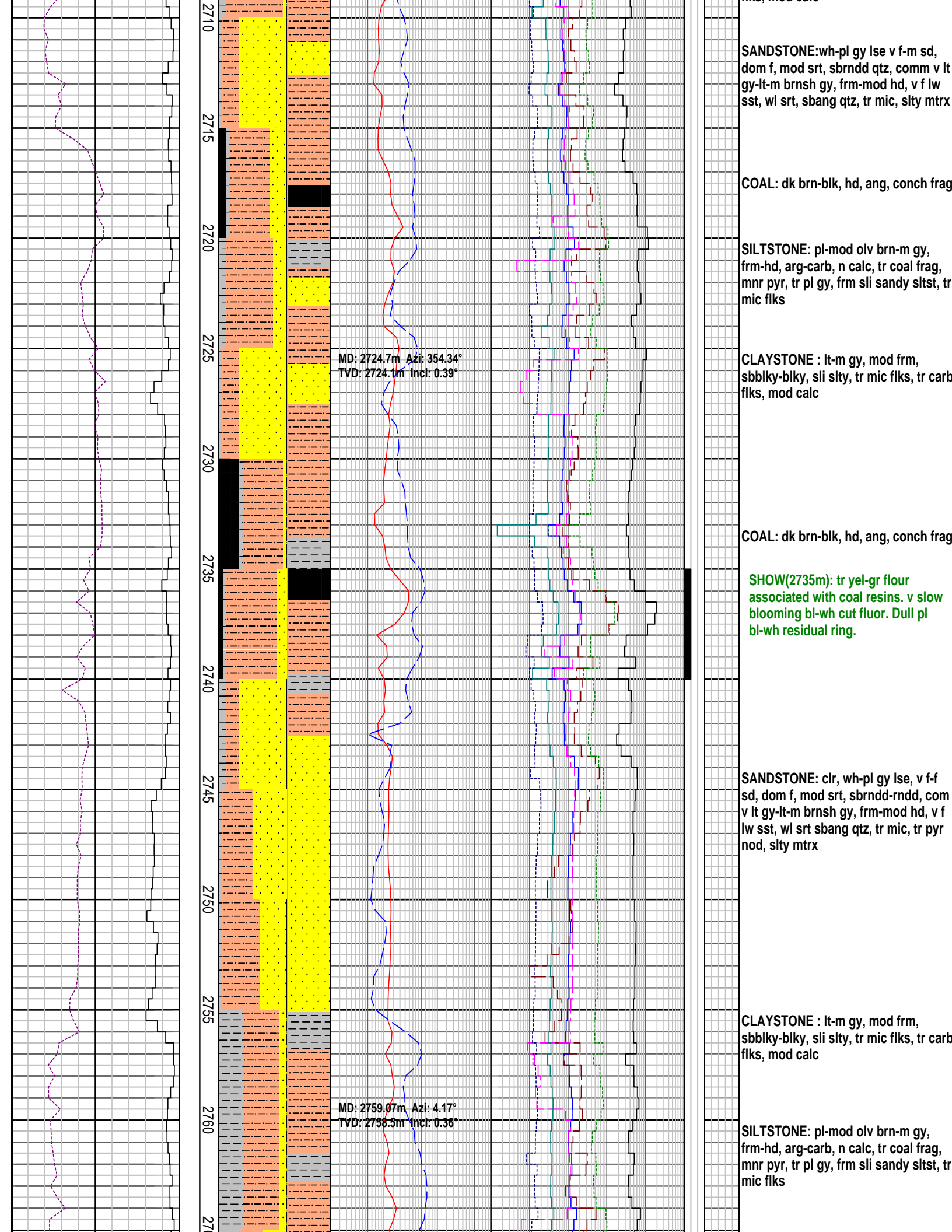
CLAYSTONE : lt-m gy, mod frm, sbbky-blky, sli slit, tr mic flks, tr carb flks, mod calc

SILTSTONE: pl gy-mod olv brn, dk gy, frm-hd, arg carb, n calc, tr coal frag, tr pyr, tr mic, 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, sbbky-blky, sli slty, tr mic flks, tr carb flks, mod calc



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

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

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

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

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

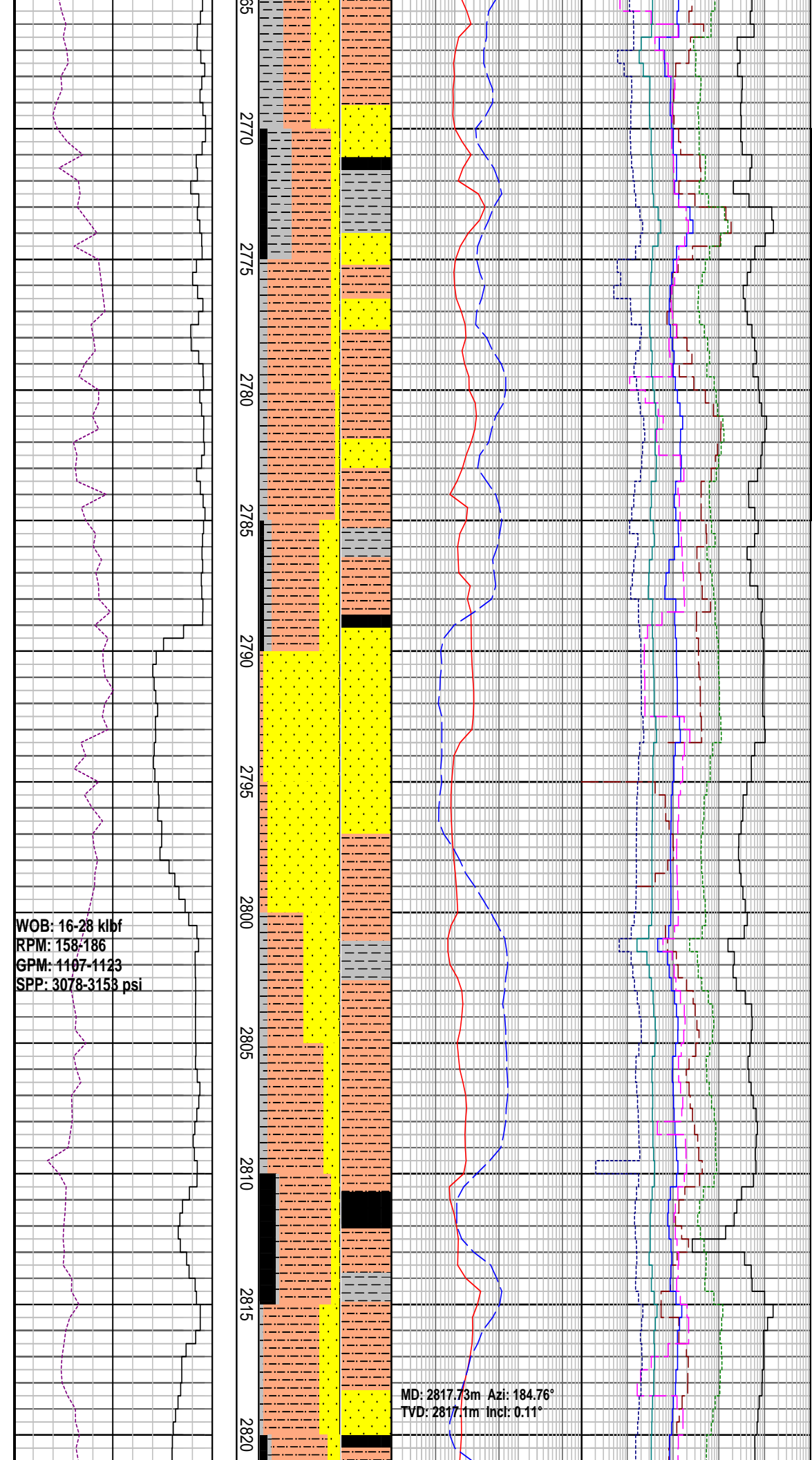
SHOW(2735m): tr yel-gr flour associated with coal resins. v slow blooming bl-wh cut fluor. Dull pl bl-wh residual ring.

SANDSTONE: clr, wh-pl gy lse, v f-f sd, dom f, mod srt, sbrndd-rndd, com v lt gy-lt-m brnsh gy, frm-mod hd, v f lw sst, wl srt sbang qtz, tr mic, tr pyr nod, slty mtrx

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

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: clr, wh-pl gy lse, v f-f sd, dom f, mod srt, sbrndd-rndd, com v lt gy-lt-m brnsh gy, frm-mod hd, v f lw sst, wl srt sbang qtz, tr mic, tr pyr nod, slty mtrx

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

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-lt-m brnsh gy, lse f-granule sd, pred m-lower crs, mod srt, sbang-sbrndd, sbsph qtz, agg-yelsh-gy, mod frm, mod silca cmt f sd, tr pyr, tr coal

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

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

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

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



