



Company : Apache

Well : Dory-1

Interval : 1478.00 - 2974.29 meters

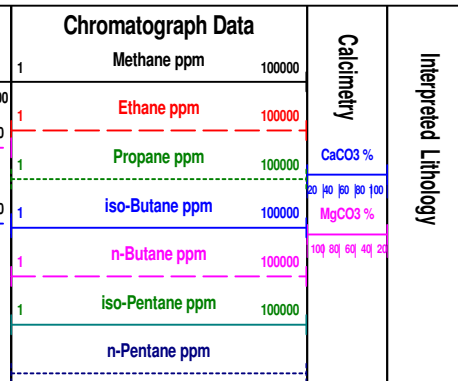
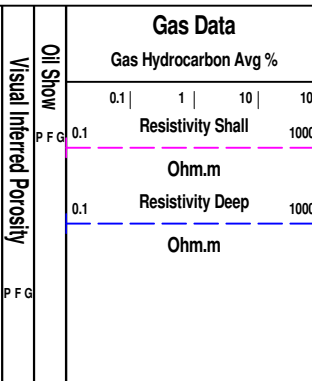
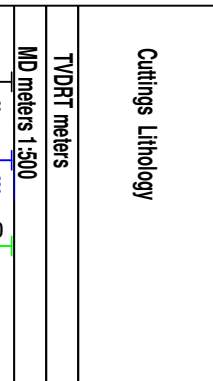
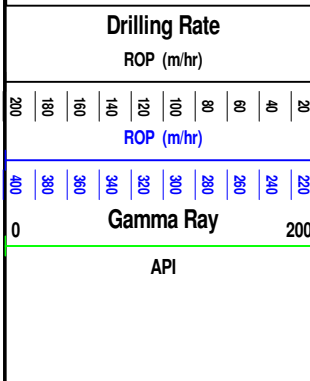
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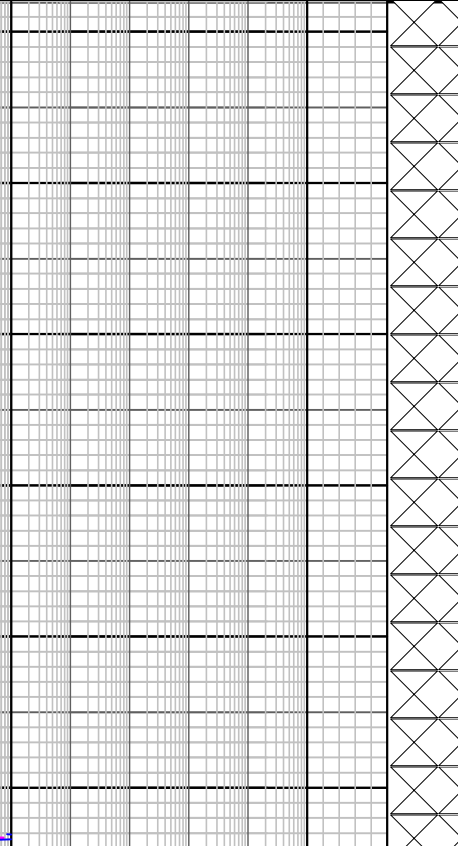
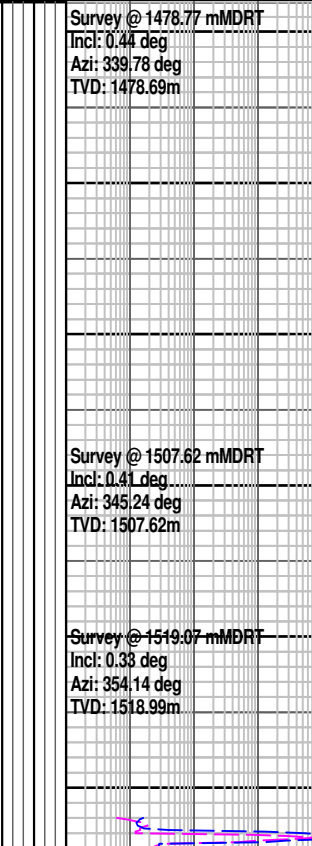
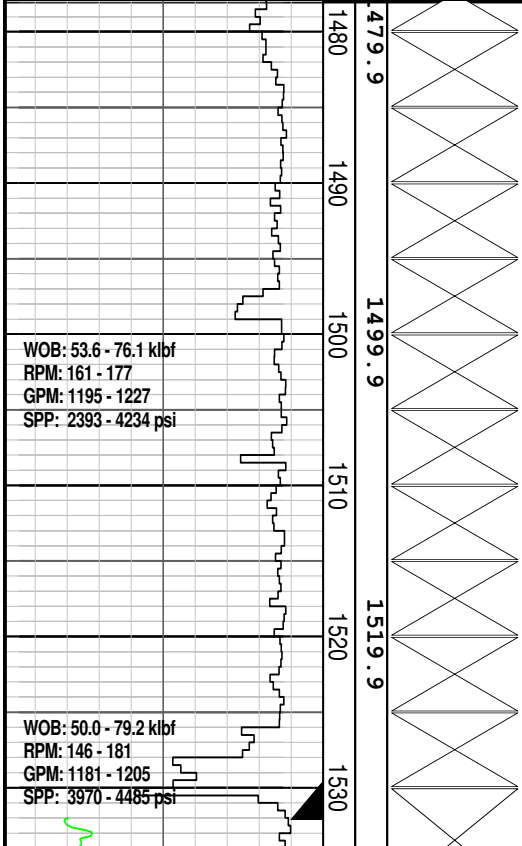
INTEQ

### FORMATION EVALUATION LOG

Drilling Rate		MD meters	TVDRT meters	Cuttings Lithology	Visual Inferred Porosity	Oil Show	Gas Data		Chromatograph Data		Calcmetry	Interpreted Lithology	Lithology Description
ROP (m/hr)	ROP (m/hr)						Gas Hydrocarbon Avg %	Methane ppm	Ethane ppm	Propane ppm			
200	200	1480	479.9				0.1   1   10   100	1	100000	100000			
180	180	1490					0.1	1	10000	10000			
160	160	1500	1499.9				0.1	1	10000	10000			
140	140	1510											
120	120	1520	1519.9										
100	100	1530											
80	80	1540	1539.9										
60	60	1550											
40	40	1560	1559.9										
20	20	1570											
0	0												



Lithology Description



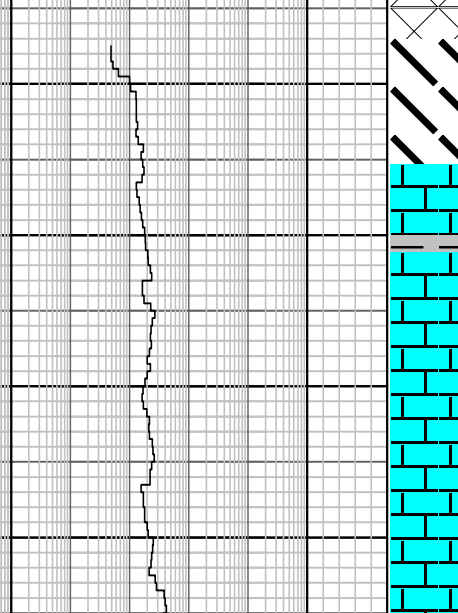
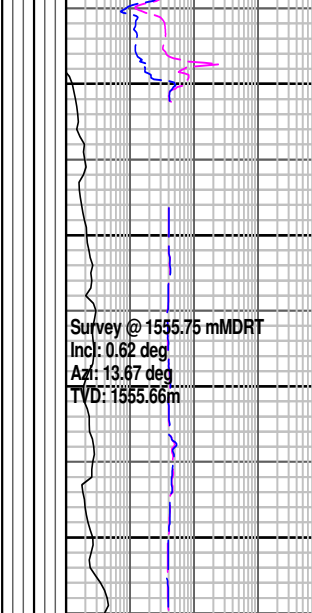
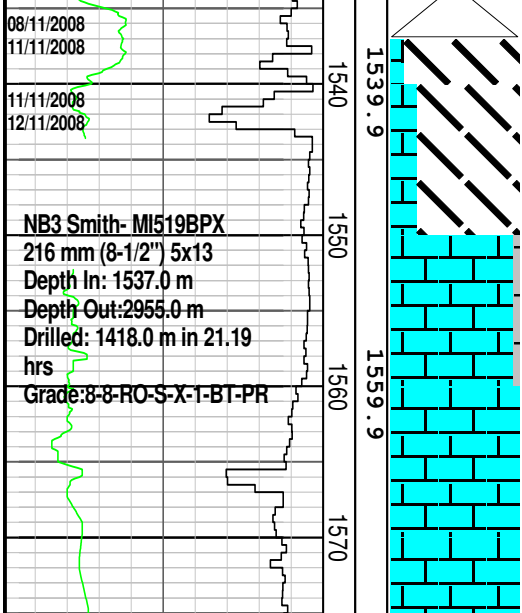
Drill 406mm hole w/ seawater and hi-vis gel sweeps. Returns to Seabed.

340mm (13-3/8") Casing Shoe @ 1532.14 mMDRT

Reached 406mm (16") Section TD @ 1537.0m at 00:30 hrs on 08/11/2008

Drill with 9.6 ppg (1.15 sg) WBM

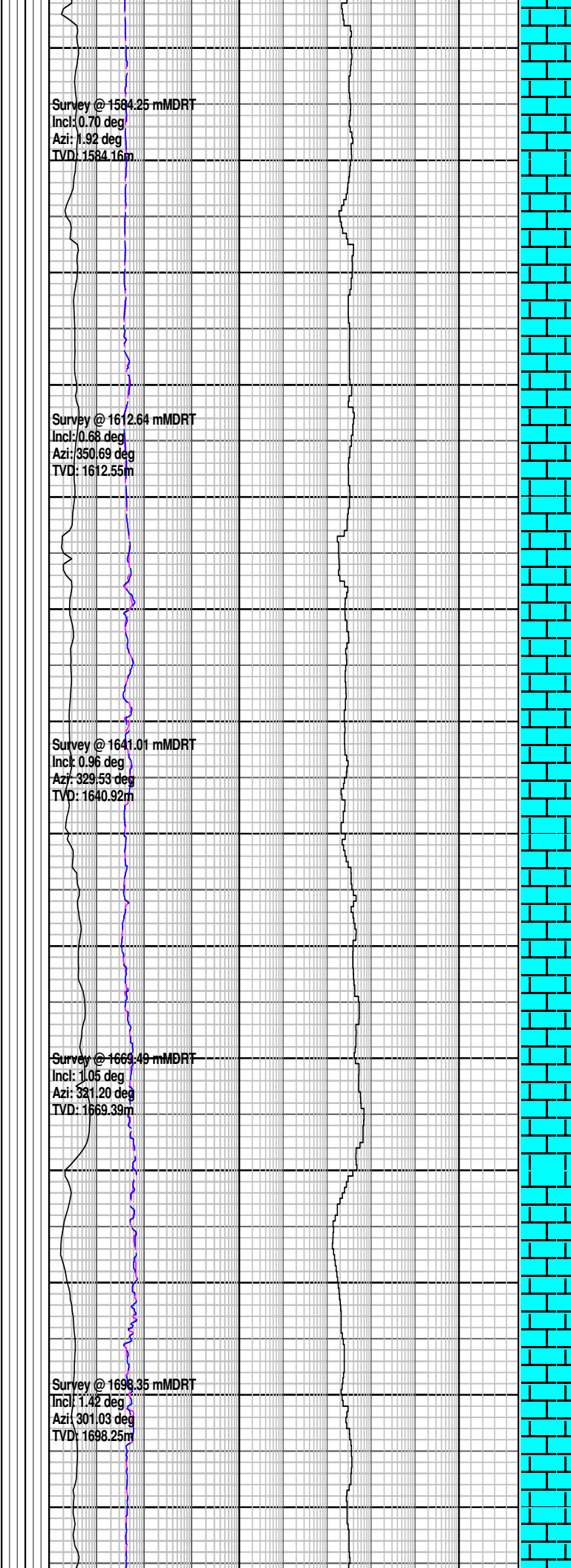
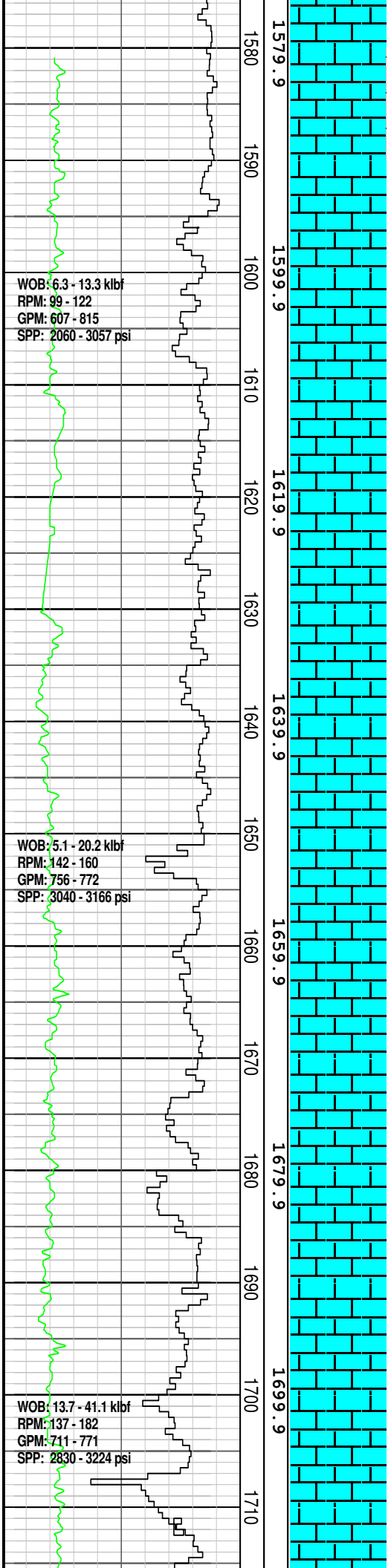
MW 1.15 V 54 PV 13 YP 20  
GELS 5/7/7 Cl 60 K Sol 4.8



DOLOMITIC CLAYSTONE: It yel, or, abdt calc mat, mnr lith, mod hd-hd, sb-blky

LOT @ 1540.00 mMDRT: 1.34 sg (EMW)

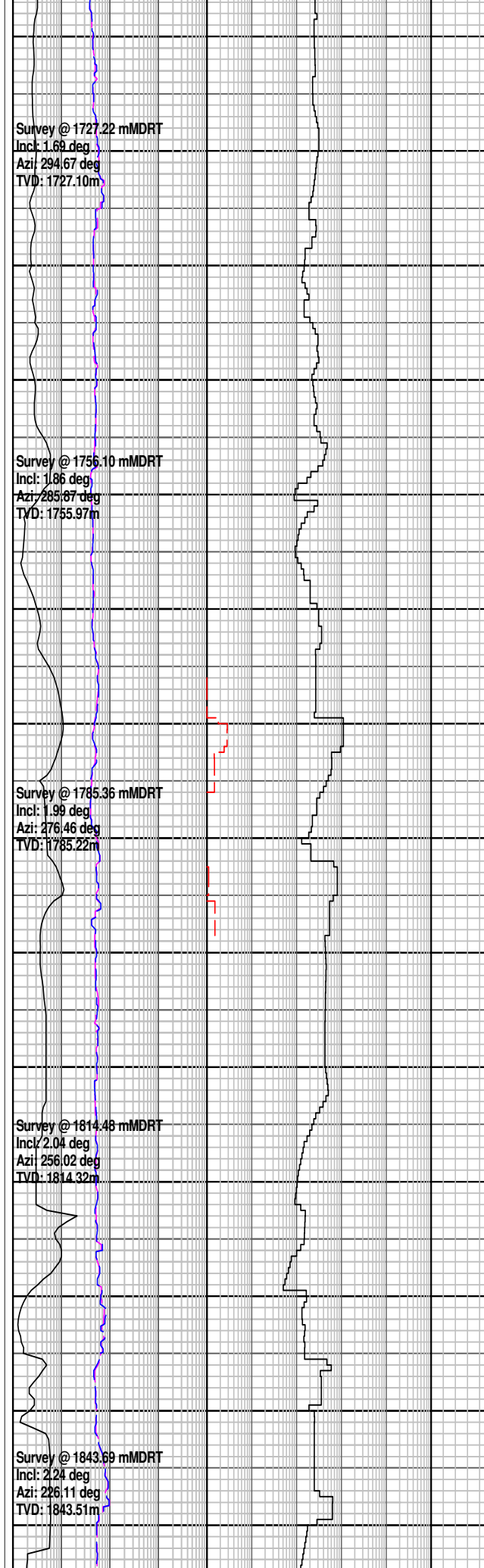
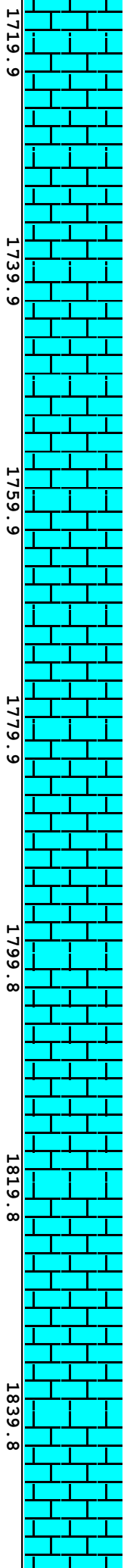
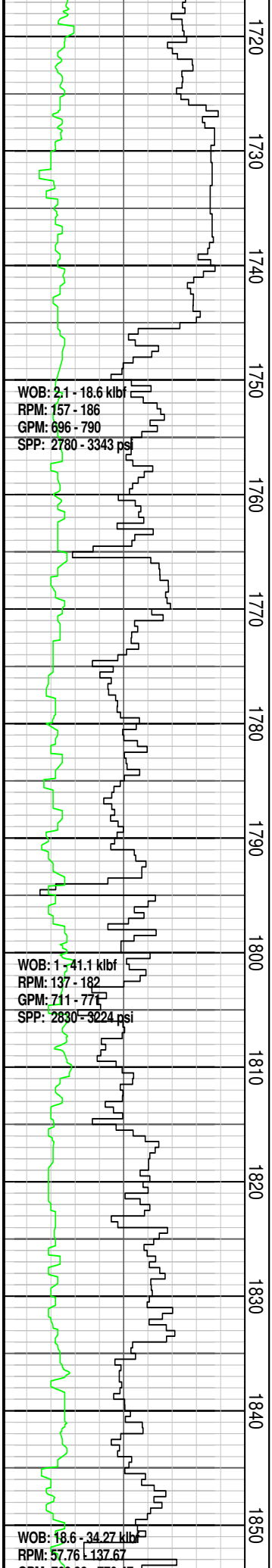
CALCILUTITE: It gry, It gry-off wh, m gn gry, com arg mtx, occ f qtz gr.



com dk lit & glauc mat, occ mic fos, occ or calc frag, frm-mod hd, sbblky-blky

CALCULUTITE: lt gry, lt gn gry, lt gry-off wh, m gn gry, com arg mtx, occ f qtz gr, com dk lit & glauc mat, occ mic fos, occ or calc frag, stly i/p & loc grd-ARG CALC, frm-mod hd, sbblky-blky

OOLITIC CALCARENITE: m lt gry-m gry, v f-v crs, pr srt, rnd-sbang, abdt arg mtx, rr micrln, mnr qtz grn v fn-v crs, wl rnd, tr lit, abdt foss, oo, foram, amm, mnr glauc, lse, brit- mod hd i/p, dom n vis por, gd inf por, n shw

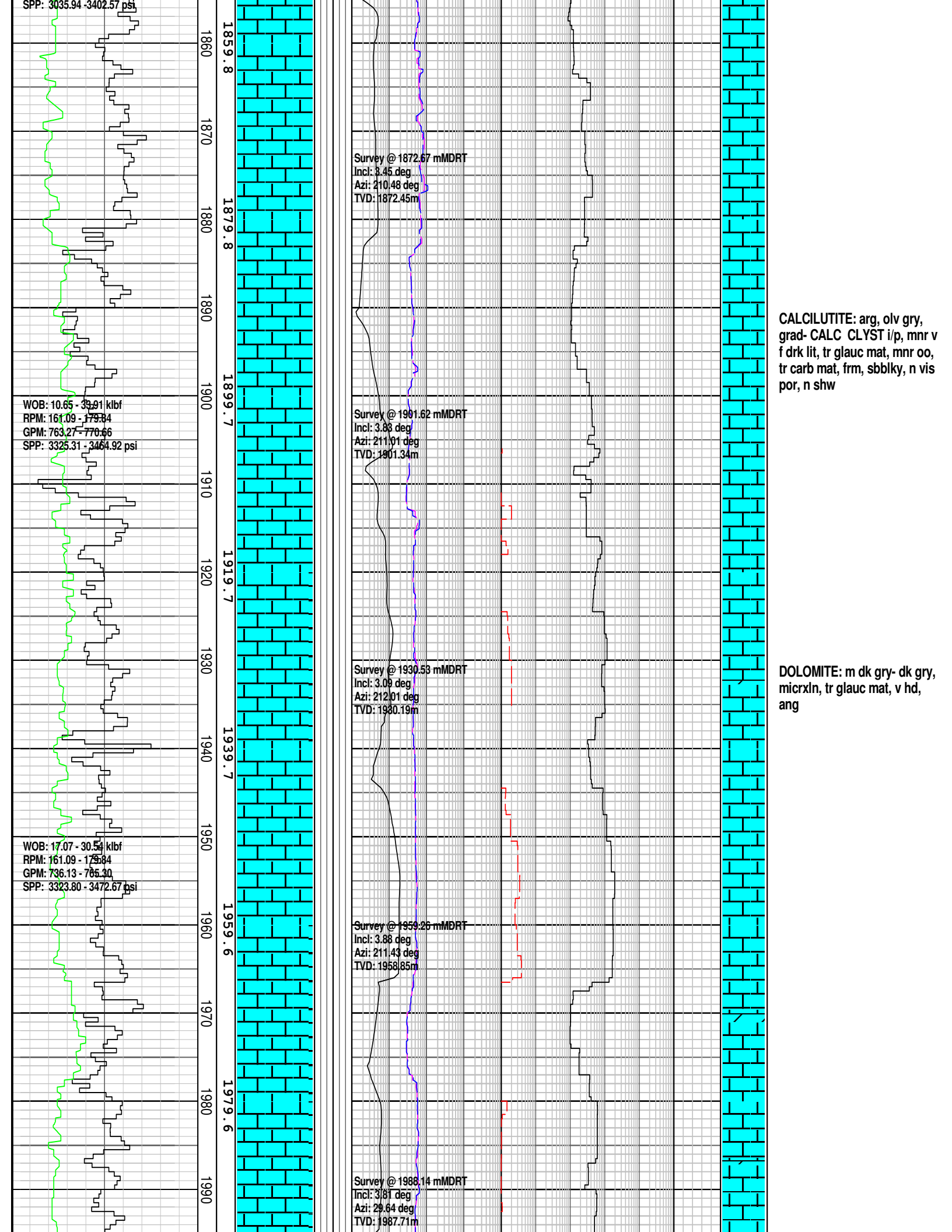


**CALCISILTITE:** m lt gry-lt olv gry, mnr m gry, abdt mtx & grad-CLCLT i/p, grad-CLCAR i/p, abdt v f dk lit, com Foss (Foram & Oo), abdt v f qtz grn, tr glauc, tr carb mat, sft-brit, domy frm, com sft & brit, sb-blky, n vis por

**CALCISILTITE:** Domy gnsh gry-lt olv gry, com m lt gry-lt olv gry, abdt mtx & grad-CACLT i/p, abdt v f drk lit, mnr foss, Oo, abdt v f qtz grn, tr-com v f Glauc, tr carb, mat, sft-brit, domy frm mnr sft & brit, sb-blky, n vis por

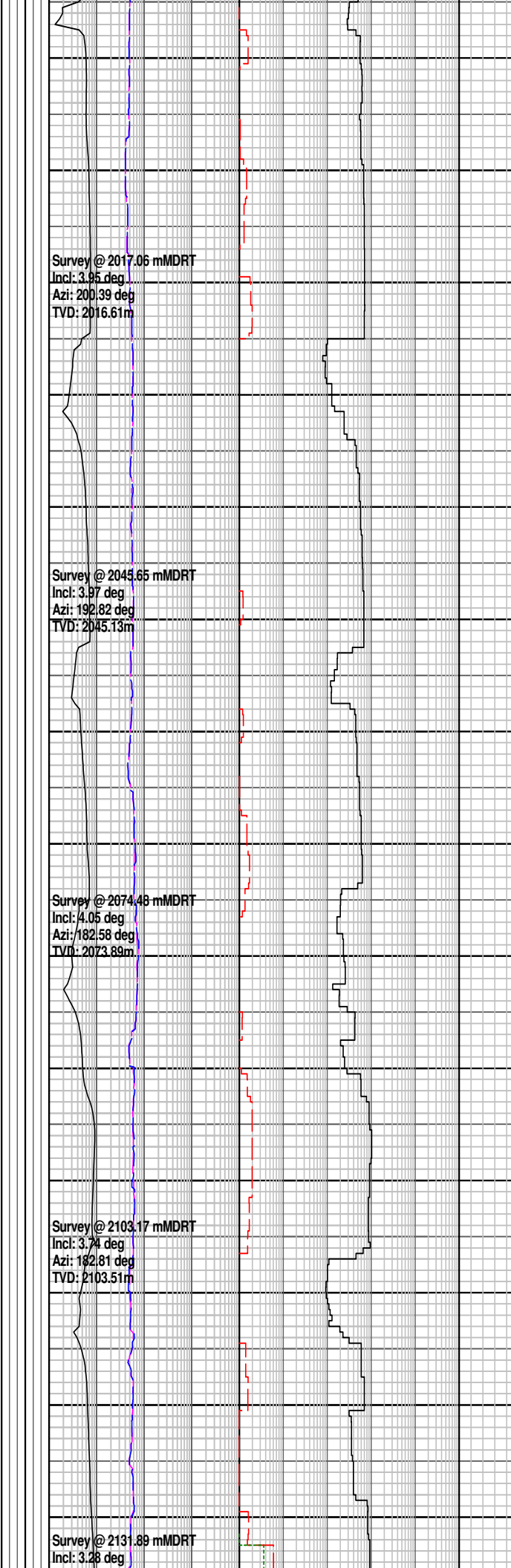
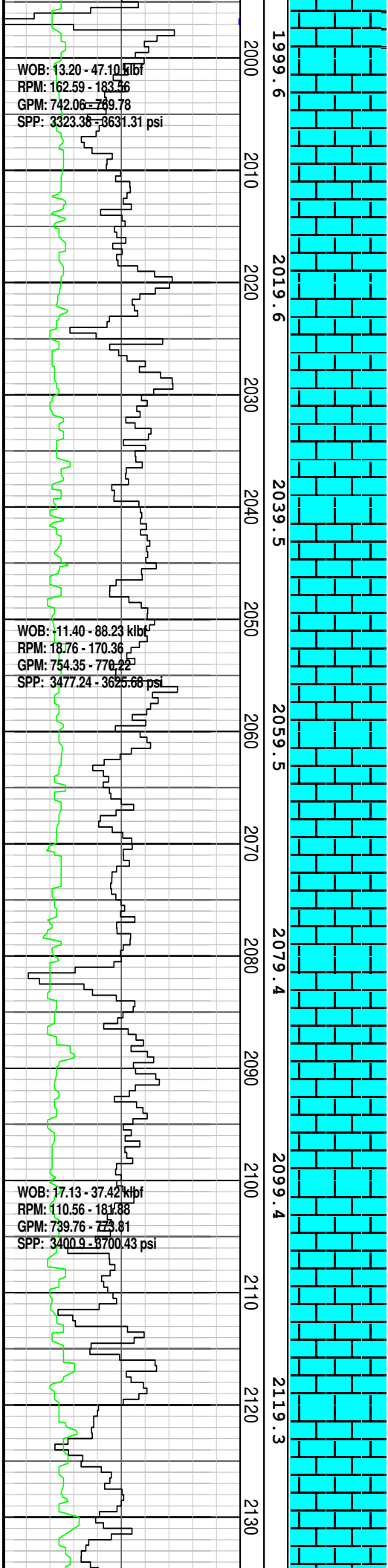
**CALCARENITE:** m lt gry-med gry, v f-f, wl std, rnd-sb-ang, abdt argl mtx, rr micrxln, tr lit, com foss (Oo, Foram, Amm), rr glauc, mnr lse, dom brit-mody hd i/p, v p vis por, tr moldic por, n shw

**CALCISILTITE:** m lt gry, com lt olv gry-lt gry, mnr olv gry, abdt arg mtx, mnr f drk lit, mnr foss Oo, mnr v f qtz grn, tr Glauc, tr carb, mat, sft-brit, dom frm mnr sft & brit, sbblky, n vis por, n shw



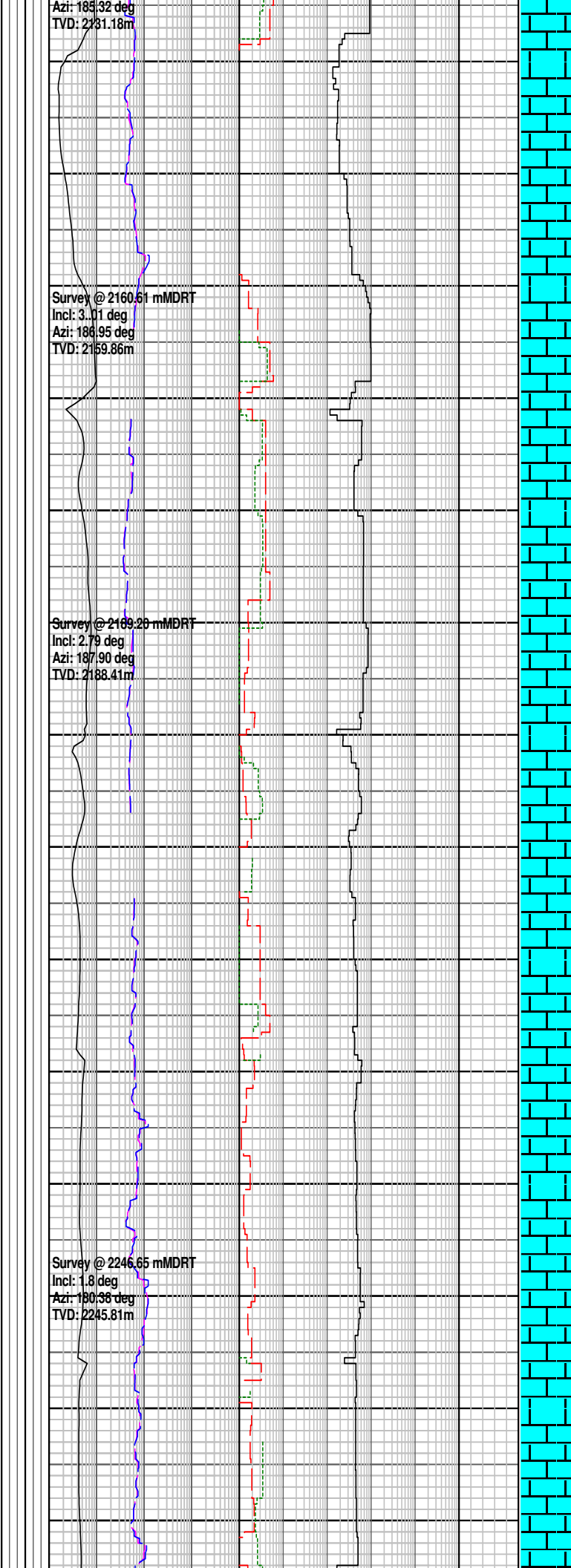
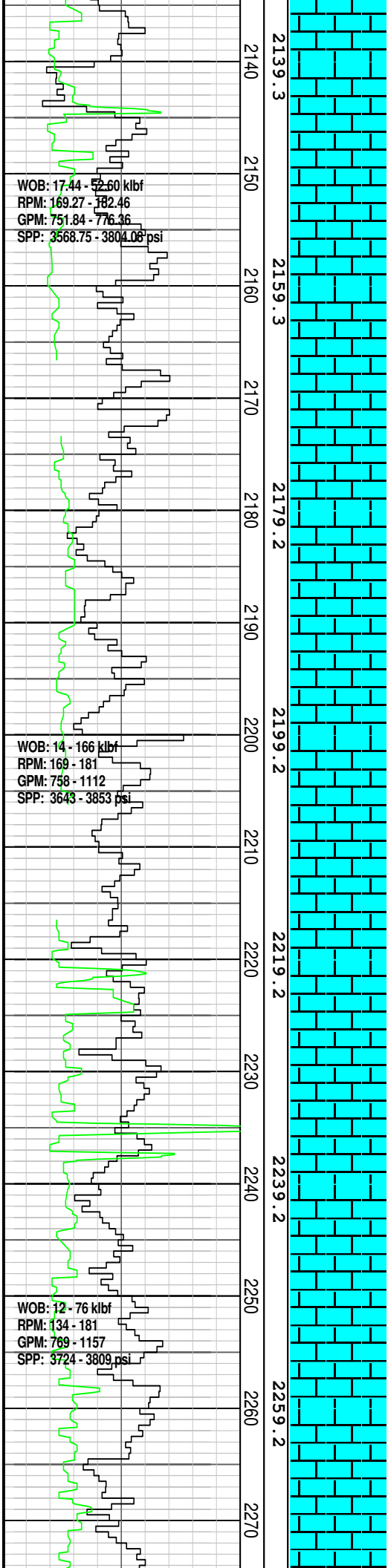
**CALCILUTITE:** arg, olv gry, grad- CALC CLYST i/p, mnr v f drk lit, tr glauc mat, mnr oo, tr carb mat, frm, sbblky, n vis por, n shw

**DOLOMITE:** m dk gry- dk gry, micrln, tr glauc mat, v hd, ang



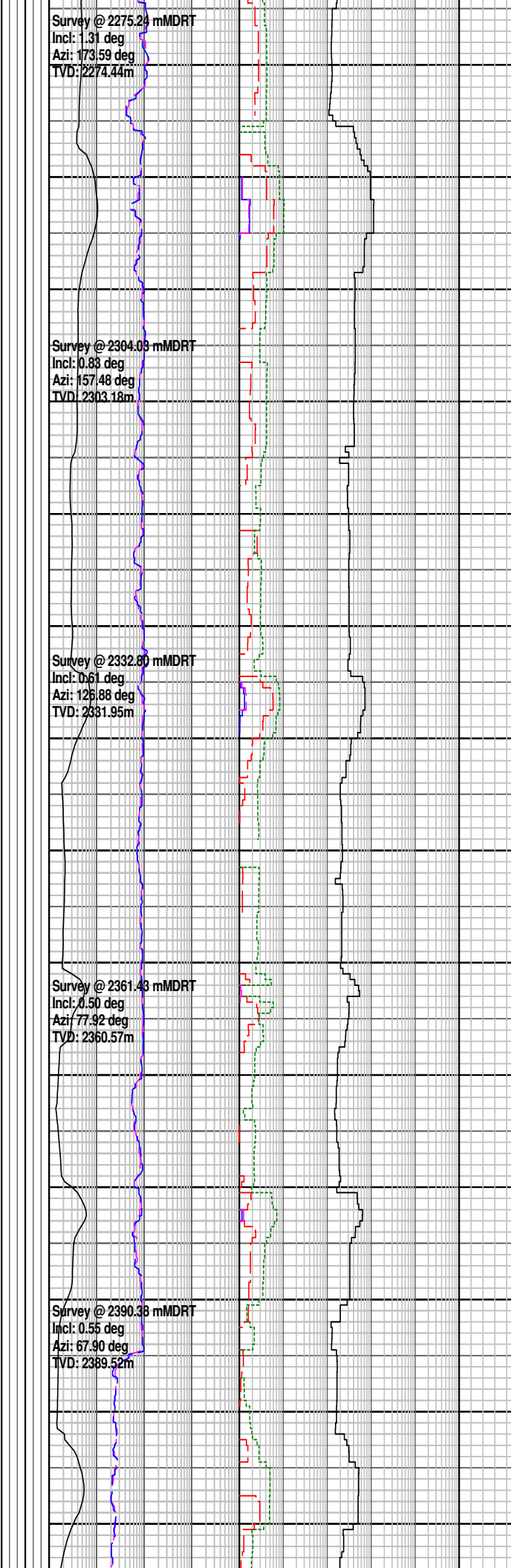
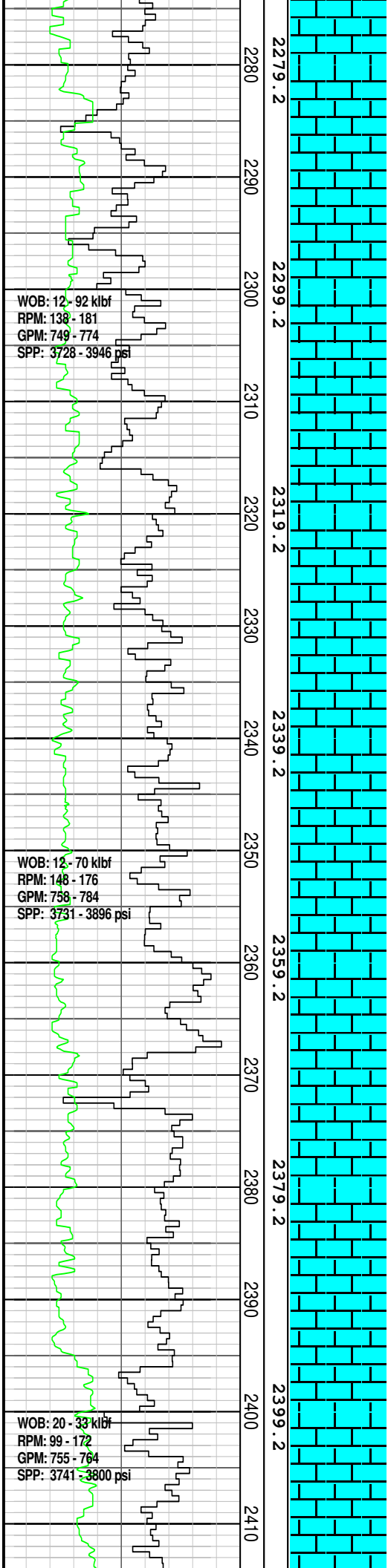
CALCILUTITE: arg, olv gry, abd v f dk lit, tr glauc mat, tr oo, tr carb mat, tr v f qtz gr, frm-brit, dom frm, com brit, sbblky, n vis por, n shw

CALCISILTITE: olv gry, gnsh gry, lt olv gry-of wh, com-abdt arg mtx & loc grd-CALC i/p, com v f dk lit, com oo, mnr v f fltg qtz gr, tr v f glauc, tr carb mat, frm- mod frm, sbblky



**CALCILUTITE:** argil, olv gry, abd v f dk lit, tr glauc mat, tr oo, tr carb mat, tr v f qtz gr, frm-brit, dom frm, com brit, sbbiky, n vis por, n shw

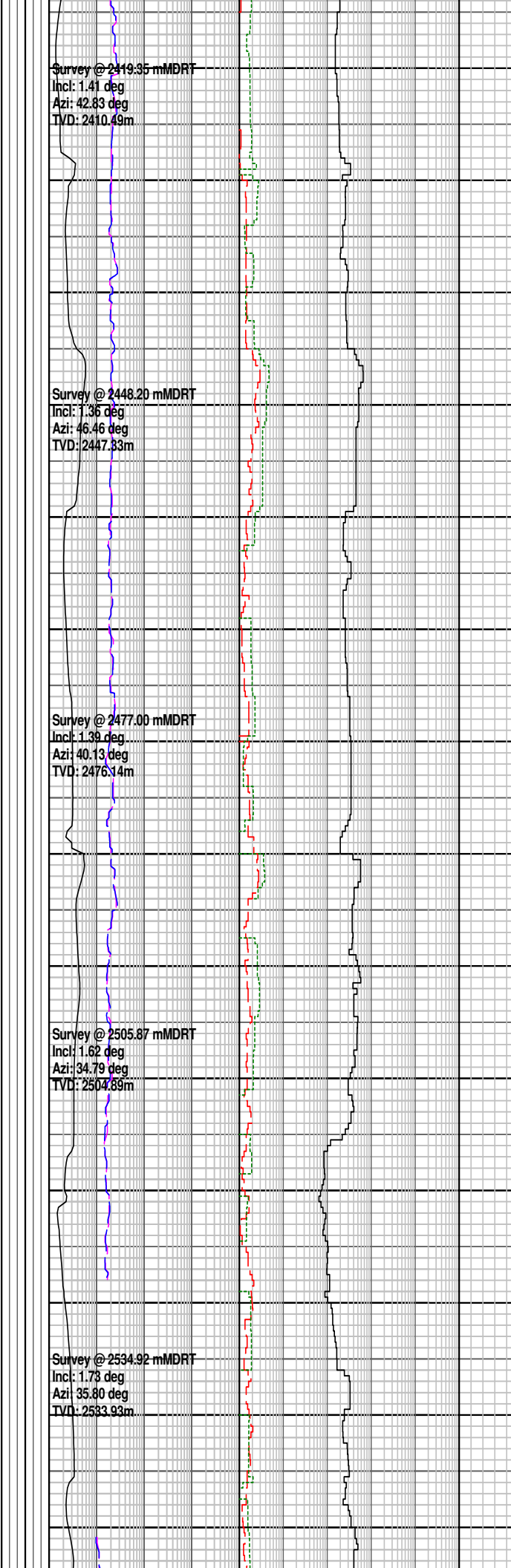
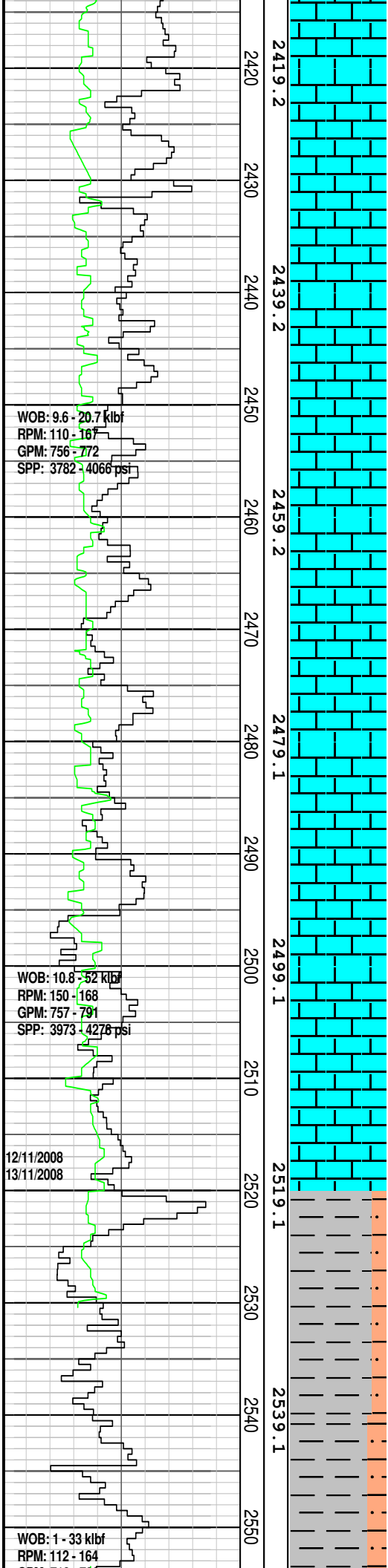
**CALCISILTITE:** olv gry, gnsh gry, lt olv gry-of wh, com-abdt arg mtx & loc grd- CALC CLYST i/p, loc aren, com v f dk lit, com oo, mnr v f fltg qtz gr, tr v f glauc, tr carb mat, f hd, sb-blky, n vis por, sbbiky, n vis por, n shw



CALCILUTITE: arg, olv gry, abdt v f dk lt, tr glauc mat, tr oo, tr carb mat, tr v f qtz gr, frm-brit, dom frm, com brit, sbbkly, n vis por, n shw

CALCISILTITE: olv gry, gnsh gry, lt olv gry-of wh, com-abdt arg mtx & loc grd-CALC CLYST i/p, loc aren, com v f dk lit, com oo, mnr v f fltg qtz gr, tr v f glauc, tr carb mat, frm-hd, sbbkly, n vis por, sbbkly, n vis por, n shw

CALCILUTITE: argil, olv gry, abd v f dk lit, tr glauc mat, tr oo, tr carb mat, tr v f qtz gr, frm-brit, dom frm, com brit, sbbkly, n vis por, n shw



**CALCILUTITE:** dom lt olv gry, lt gnsh gry, olv gry, occ v f dk lit, occ glauc mat, rroo, rr carb mat, tr fltg qtz gr, mnr micrxln frag, r dissep pyr, mod hd-hd, v hd incl i/p, sb-blky- blkly, n vis por, n shw

**CALCISILTITE:** olv gry, gnsh gry, lt olv gry-of wh, com-abdt arg mtx & loc grd-CALC i/p, loc aren, com v f dk lit, com oo, mnr v f fltg qtz gr, tr v f glauc, tr carb fra, mod hd, sb-blky, n vis por, sb-blky, n vis por, n shw

MW 1.15 V 53 PV 13 VP 21  
 GELS 6/77 CI 60 K Sol 4.8

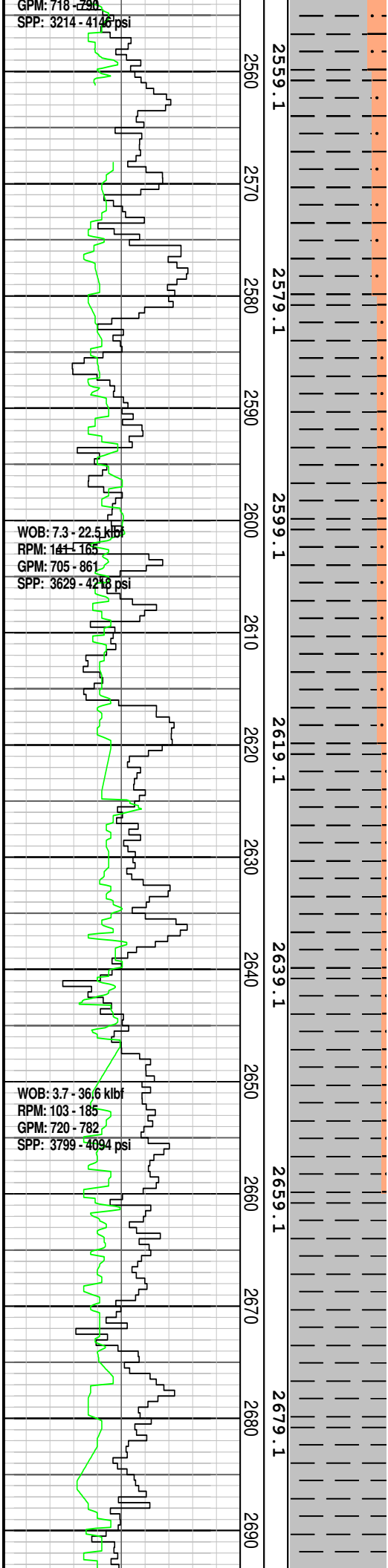
**CALCAREOUS CLAYSTONE:**  
 v lt olv arv. lt ansh arv. lt



GPM: 718 - 796  
SPP: 3214 - 4146 psi

WOB: 7.3 - 22.5 kbf  
RPM: 141 - 165  
GPM: 705 - 861  
SPP: 3629 - 4218 psi

WOB: 3.7 - 36.6 kbf  
RPM: 103 - 185  
GPM: 720 - 782  
SPP: 3799 - 4094 psi



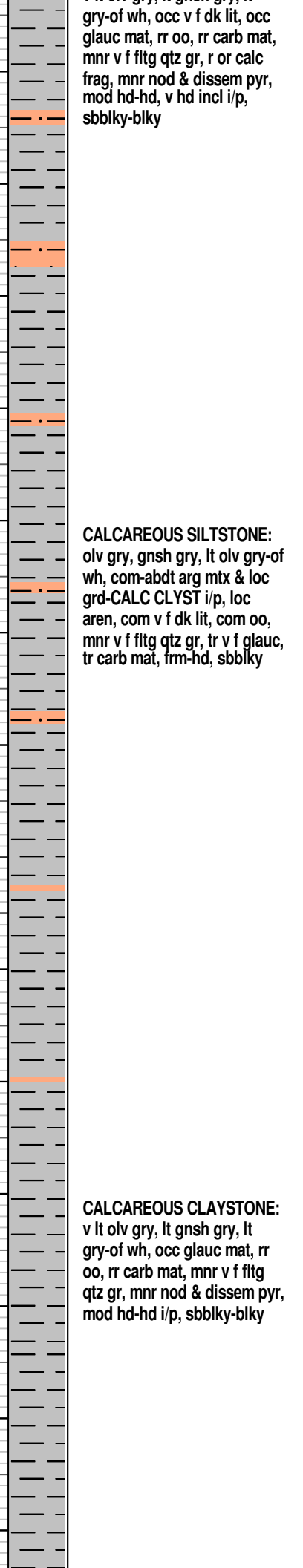
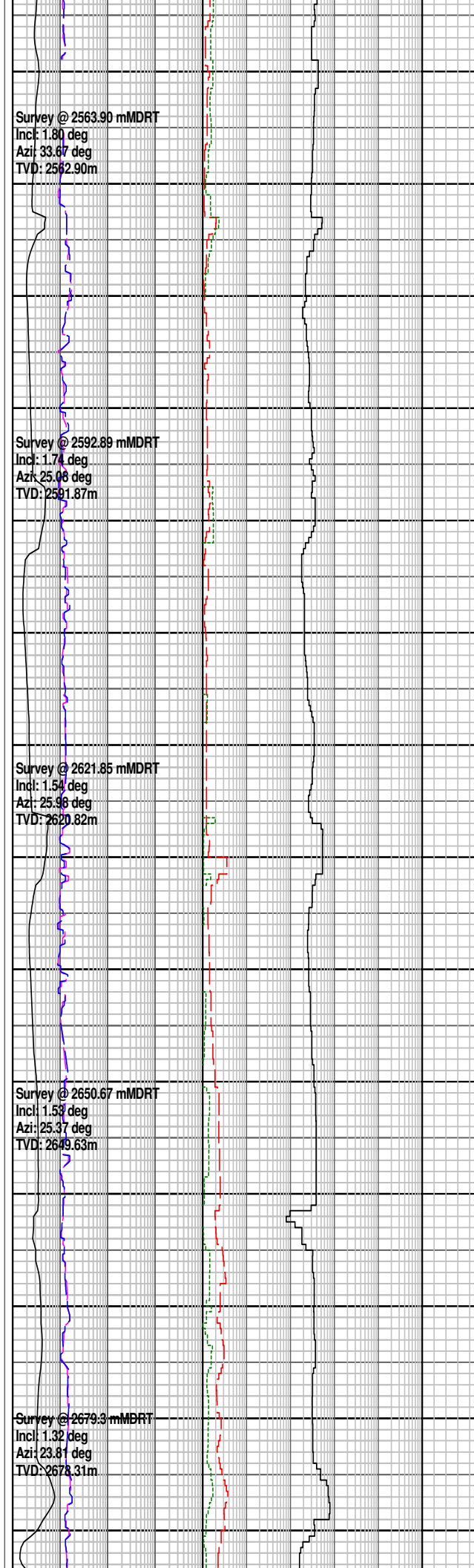
Survey @ 2563.90 mMDRT  
Incl: 1.80 deg  
Azi: 33.67 deg  
TVD: 2562.90m

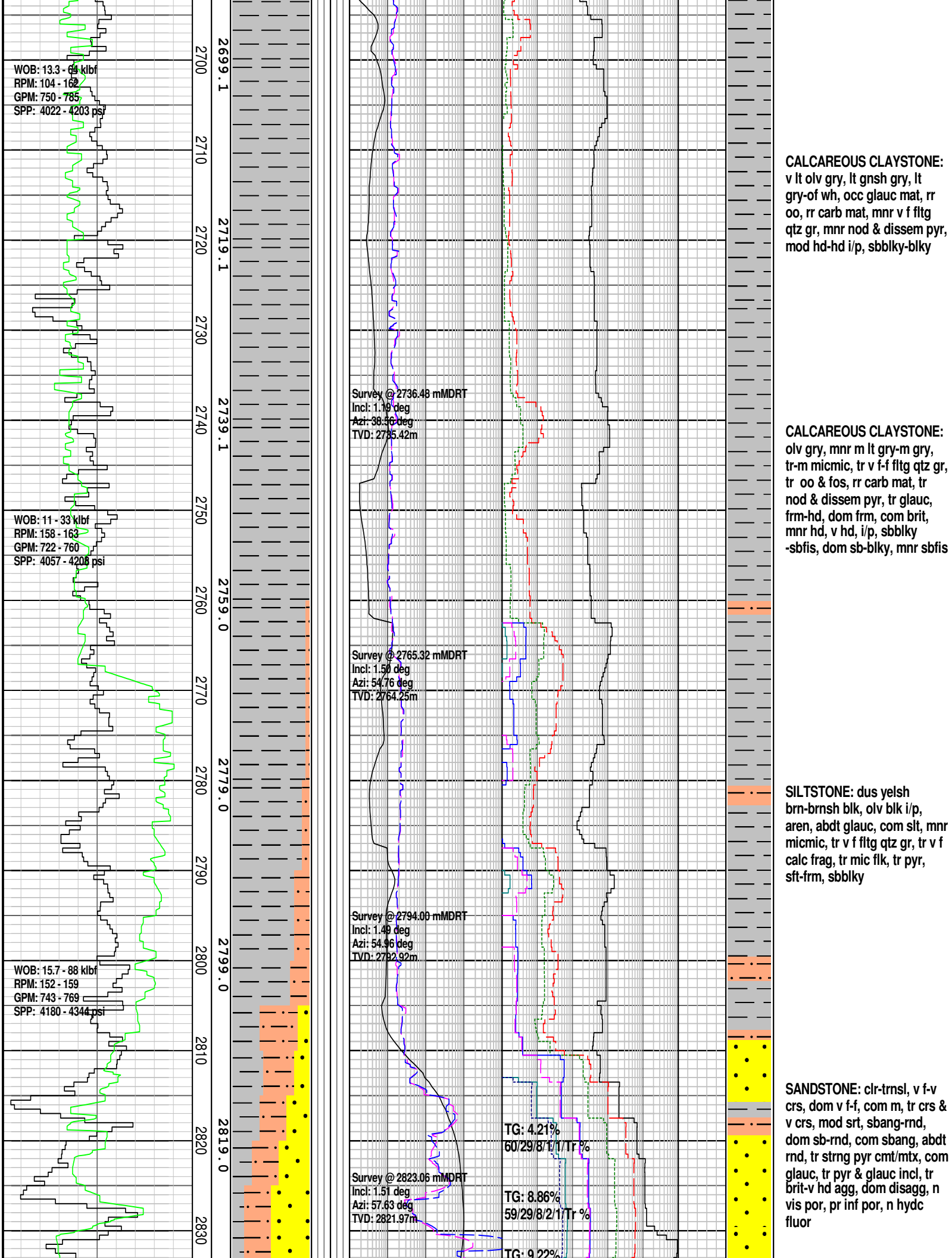
Survey @ 2592.89 mMDRT  
Incl: 1.74 deg  
Azi: 25.08 deg  
TVD: 2591.87m

Survey @ 2621.85 mMDRT  
Incl: 1.54 deg  
Azi: 25.98 deg  
TVD: 2620.82m

Survey @ 2650.67 mMDRT  
Incl: 1.53 deg  
Azi: 25.37 deg  
TVD: 2649.63m

Survey @ 2679.3 mMDRT  
Incl: 1.32 deg  
Azi: 23.81 deg  
TVD: 2678.31m





WOB: 13.3 - 65 kJbf  
 RPM: 104 - 162  
 GPM: 750 - 785  
 SPP: 4022 - 4203 psi

WOB: 11 - 33 kJbf  
 RPM: 158 - 162  
 GPM: 722 - 760  
 SPP: 4057 - 4208 psi

WOB: 15.7 - 88 kJbf  
 RPM: 152 - 159  
 GPM: 743 - 769  
 SPP: 4180 - 4344 psi

2699.1  
 2710  
 2719.1  
 2730  
 2739.1  
 2750  
 2759.0  
 2770  
 2779.0  
 2790  
 2799.0  
 2810  
 2819.0  
 2830

Survey @ 2736.48 mMDRT  
 Incl: 1.19 deg  
 Azi: 38.50 deg  
 TVD: 2735.42m

Survey @ 2765.32 mMDRT  
 Incl: 1.50 deg  
 Azi: 54.76 deg  
 TVD: 2764.25m

Survey @ 2794.09 mMDRT  
 Incl: 1.49 deg  
 Azi: 54.96 deg  
 TVD: 2792.92m

Survey @ 2823.06 mMDRT  
 Incl: 1.51 deg  
 Azi: 57.63 deg  
 TVD: 2821.97m

TG: 4.21%  
 60/29/8/1/1/Tr %

TG: 8.86%  
 59/29/8/2/1/Tr %

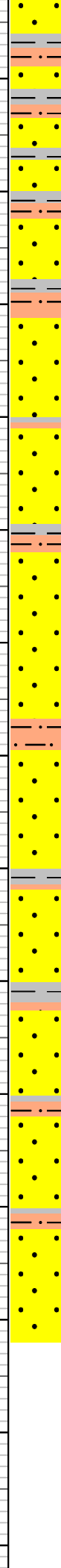
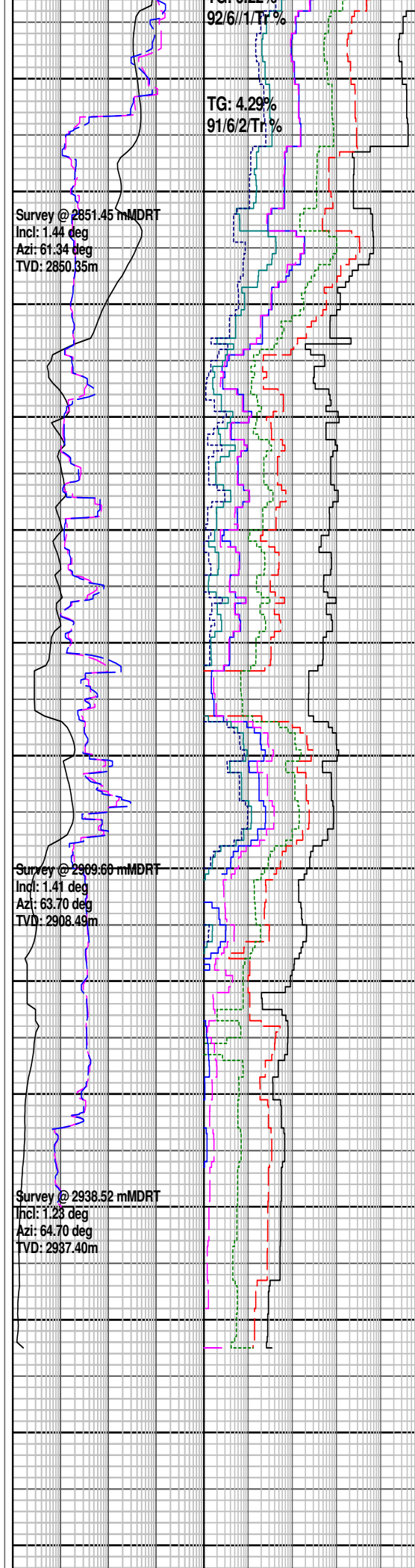
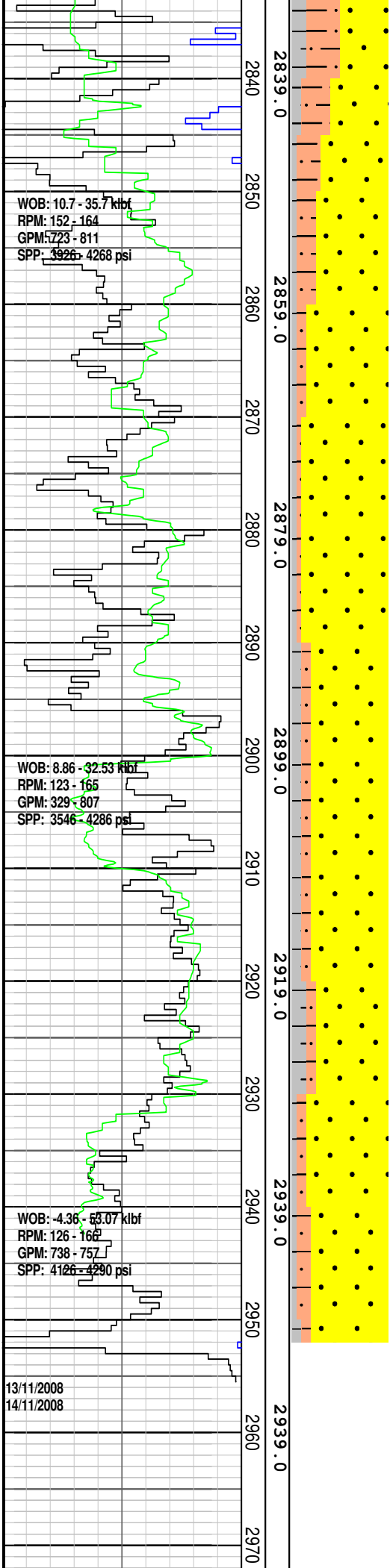
TG: 9.22%

**CALCAREOUS CLAYSTONE:**  
 v lt olv gry, lt gnsh gry, lt gry-of wh, occ glauc mat, rr oo, rr carb mat, mnr v f fltg qtz gr, mnr nod & dissem pyr, mod hd-hd i/p, sbbly-bly

**CALCAREOUS CLAYSTONE:**  
 olv gry, mnr m lt gry-m gry, tr-m micmic, tr v f fltg qtz gr, tr oo & fos, rr carb mat, tr nod & dissem pyr, tr glauc, frm-hd, dom frm, com brit, mnr hd, v hd, i/p, sbbly -sbfis, dom sb-bly, mnr sbfis

**SILTSTONE:** dus yelsh brn-brnsh blk, olv blk i/p, aren, abdt glauc, com slt, mnr micmic, tr v f fltg qtz gr, tr v f calc frag, tr mic flk, tr pyr, sft-frm, sbbly

**SANDSTONE:** clr-trnsl, v f-v crs, dom v f-f, com m, tr crs & v crs, mod srt, sbang-rnd, dom sb-rnd, com sbang, abdt rnd, tr strng pyr cmt/mtx, com glauc, tr pyr & glauc incl, tr brit-v hd agg, dom disagg, n vis por, pr inf por, n hycd fluor



**SANDSTONE:** clr-trnsl, com op, f-v crs, dom m-crs, com f, com v crs, mod srt, sbang-wl rnd, dom sbrnd, abdt sbang, abdt rnd, mnr wl rnd (crs-v crs gr), tr strng calc cmt, tr strng pyr cmt/mtx, abdt glauc, tr pyr & glauc incl, rr fis qtz shrd, tr brit-v hd agg, dom disagg, n vis por, gd inf por, n hydc flour

**SANDSTONE:** clr-trnsl, abdt op, f-v crs, dom crs-v crs, mnr f, abdt med, wl srt, sbang-wl rnd, dom sbrnd-rnd, abdt sbang, com wl rnd, tr strng calc cmt, tr strng sil cmt w fUSD gn mtx, i/p abdt arg cmt/mtx w f gn&abdt glauc & grad- arg glauc sst, com glauc, tr mic flk, tr foss, r fis qtz shards, brit- v hd agg(10%), dom disagg(90%), n vis por, v gd inf por, n hydc flour

**SILTSTONE:** dom olv blk, com dsky yelsh brn, gnsh blk i/p, com m dk gry, dom aren, arg & grd- SLT CLYST i/p, mnr glau, tr micmic, tr mic flk, tr-abdt v f fltg qtz gr & grd-SLT SST, tr pyr, tr carb mat, sft-frm, sbbkly

**GLAUCONITIC SANDSTONE:** m dk gry-olv blk, com m gry, clr- trnsl, v f-m, dom v f-f agg, dom m disagg gn, wl srt, sbang-rnd, dom sbrnd-sbang, mnr mod strng calc cmt, mnr mod strng sil cmt, tr arg cmt/mtx & grd- ARG SST, com-abdt lt gry arg mtx, com br gry slt mtx i/p, v f-m glau grd-GNSD i/p, tr mic flk, tr f pyr nod, tr lit, tr carb mat, n hydc flour

POOH for bit trip @ 2955.00 mMDRT

