

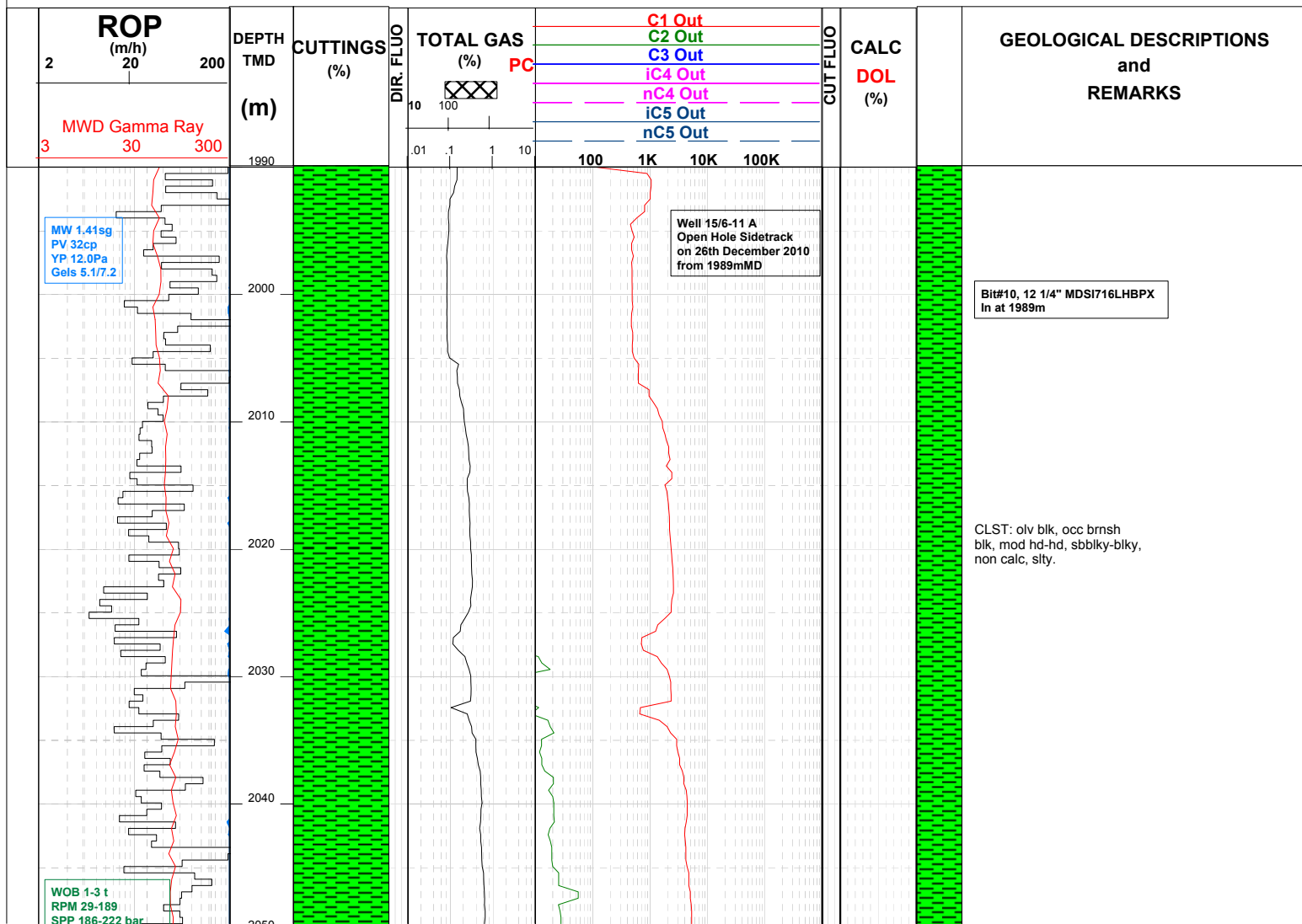


SCALE : 1/ 500

WOB : Weight On Bit (t)
TDRPM : Rotary Speed Surface(rpm)
M.RPM: Mud Motor Rotary Speed (rpm)
FLOW : Flow Rate (lpm)
SPP : Pump Pressure (psi)
TRQ : Rotating Torque (klbs*ft)
MW : Mud Weight (sg)
PV : Plastic Viscosity (cP)
FV : Funnel Viscosity (s)

	Clay-shale		Plastic clay-shale		Calcareous clay-shal		Dolomitic clay-shale		Silty clay-shale
	Organic clay-shale		Siltstone		Fine sandstone		Medium sandstone		Coarse sandstone
	Quartzite		Chert		Conglomerate		Breccia		Dolomite
	Limestone		Dolomitic limestone		Sandy limestone		Chalk		Halite
	Anhydrite		Gypsum		Volcanic rock		Volcanic cinder, tuf		Metamorphic rock
	Coal-lignite		Fossils		Pyrite		Glauconite		Core
	Casing shoe		Survey						

PICFILE : Masterlog_A4.UPF



FLW 2670-3020 lpm

2071.41mMD 2070.73VD
Inc 8.78 Az 319.94

2099.66mMD 2098.50TVD
Inc 12.38 Az 329.59

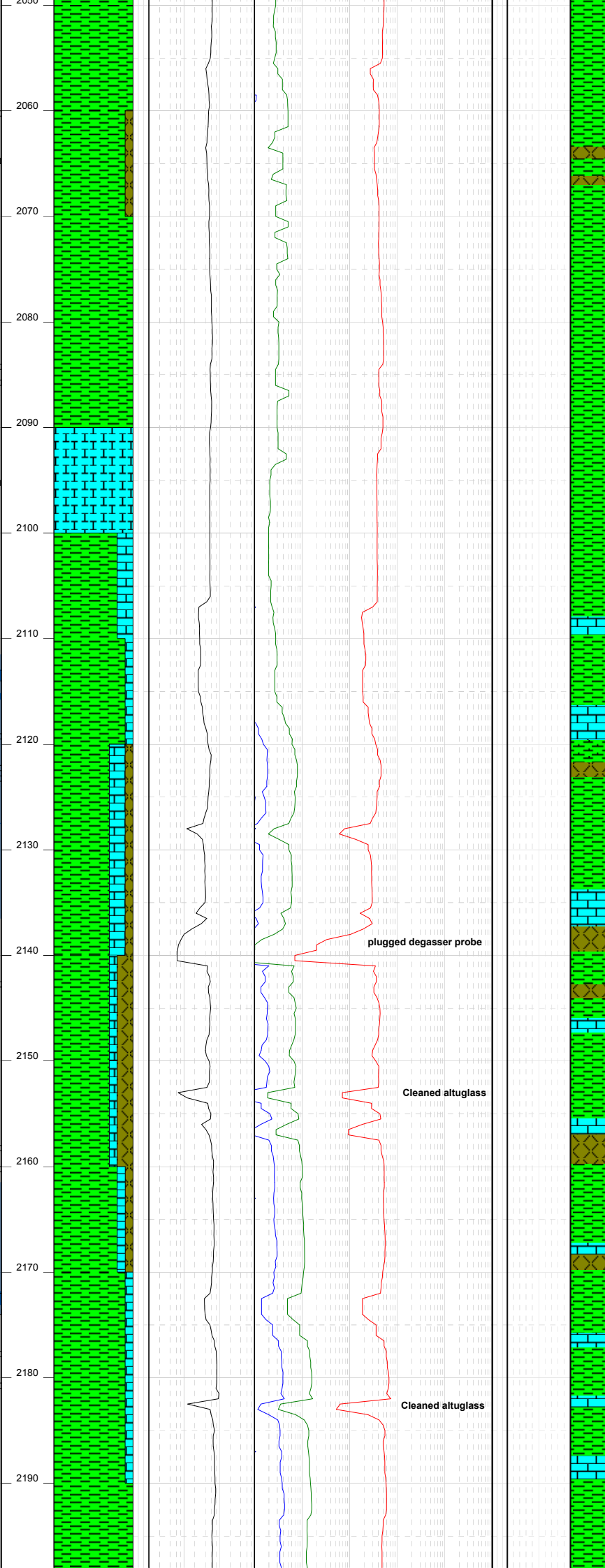
2128.98mMD 2128.99TVD
Inc 14.82 Az 331.82

MW 1.40sg
PV 23cp
YP 10.5Pa
Gels 5.1/7.2

WOB 1-3 t
RPM 185-203
SPP 207-260 bar
FLW 2960-3420 lpm

2160.82mMD 2157.66TVD
Inc 17.74 Az 339.47

2189.90mMD 2185.11TVD
Inc 19.51 Az 331.50



CLST: gnsh gry, dsky yelsh brn,
occ dk gry, sft frm, occ mod hd,
biky-sbbiky, non-silly calc.

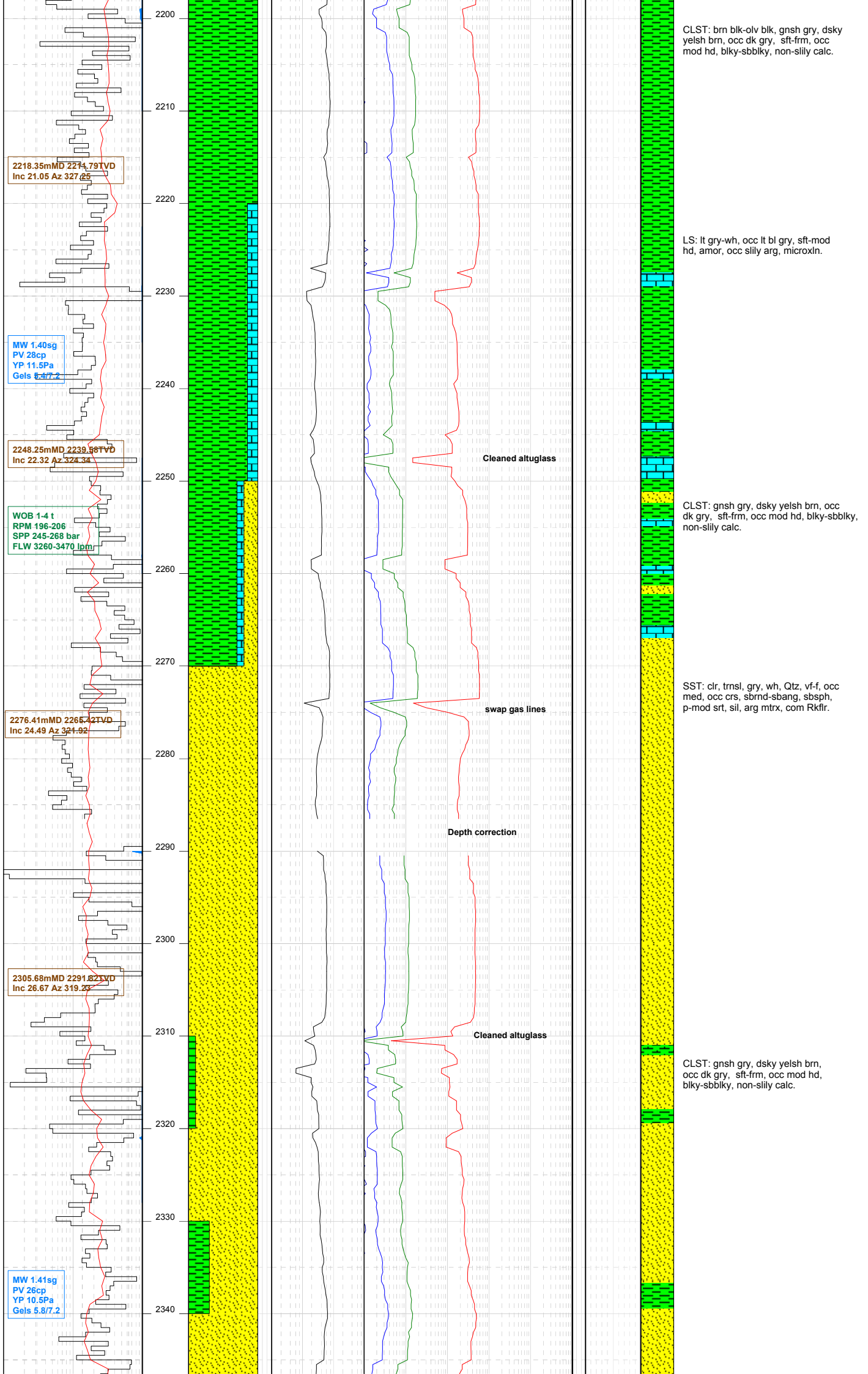
CLST: gnsh gry, dsky yelsh brn,
occ dk gry, sft frm, occ mod hd,
biky-sbbiky, non-silly calc.

LST: lt gry-wh, occ lt bl gry, sft-mod hd,
amor, occ silly arg, microxln.

TUFF: lt gry-lt bl gry, sbbiky, sft frm,
non-silly calc.

CLST: gnsh gry, dsky yell brn, occ
dk gry, sft frm, occ mod hd, biky-sbbiky,
non-silly calc.

LST: lt gry-wh, occ lt bl gry, sft-mod hd,
amor, occ silly arg, microxln.



WOB 2-6 t
RPM 192-213
SPP 180-273 bar
FLW 2750-3420 lpm

2363.03mMD 2341.93TV
Inc 31.46 Az 315.08

2421.02mMD 2390.30TV
Inc 35.48 Az 311.62

2450.94mMD 2434.30TV
Inc 37.81 Az 315.47

WOB 4-9 t
RPM 202-226
SPP 189-265 bar
FLW 2740-3370 lpm

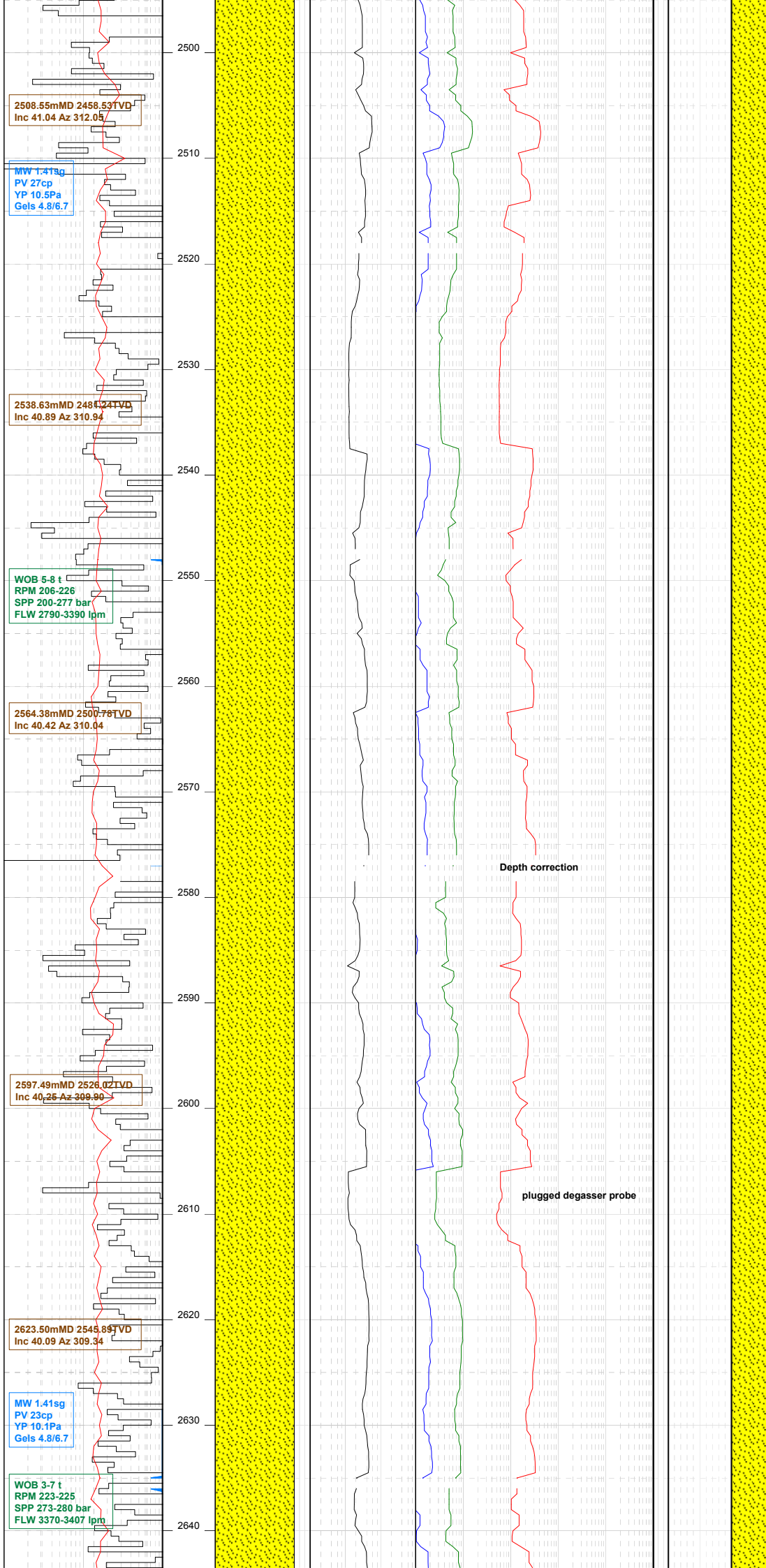
2478.19mMD 2435.48TV
Inc 40.17 Az 312.26

SST: clr, trnsl, gry, wh, Qtz, vf-f, occ
med, occ crs, sbmnd-sbang, sbsph,
p-mod srt, sil, arg mtrx, com Rkflr.

SST: clr, trnsl, gry, wh, Qtz, vf-f, occ
med, occ crs, sbmnd-sbang, sbsph,
p-mod srt, sil, arg mtrx, com Rkflr.

Cleaned altuglass

CLST: gnsh gry, dsky yelsh brn,
occ dk gry, sft-firm, occ mod hd,
blky-sbbiky, non-silly calc.

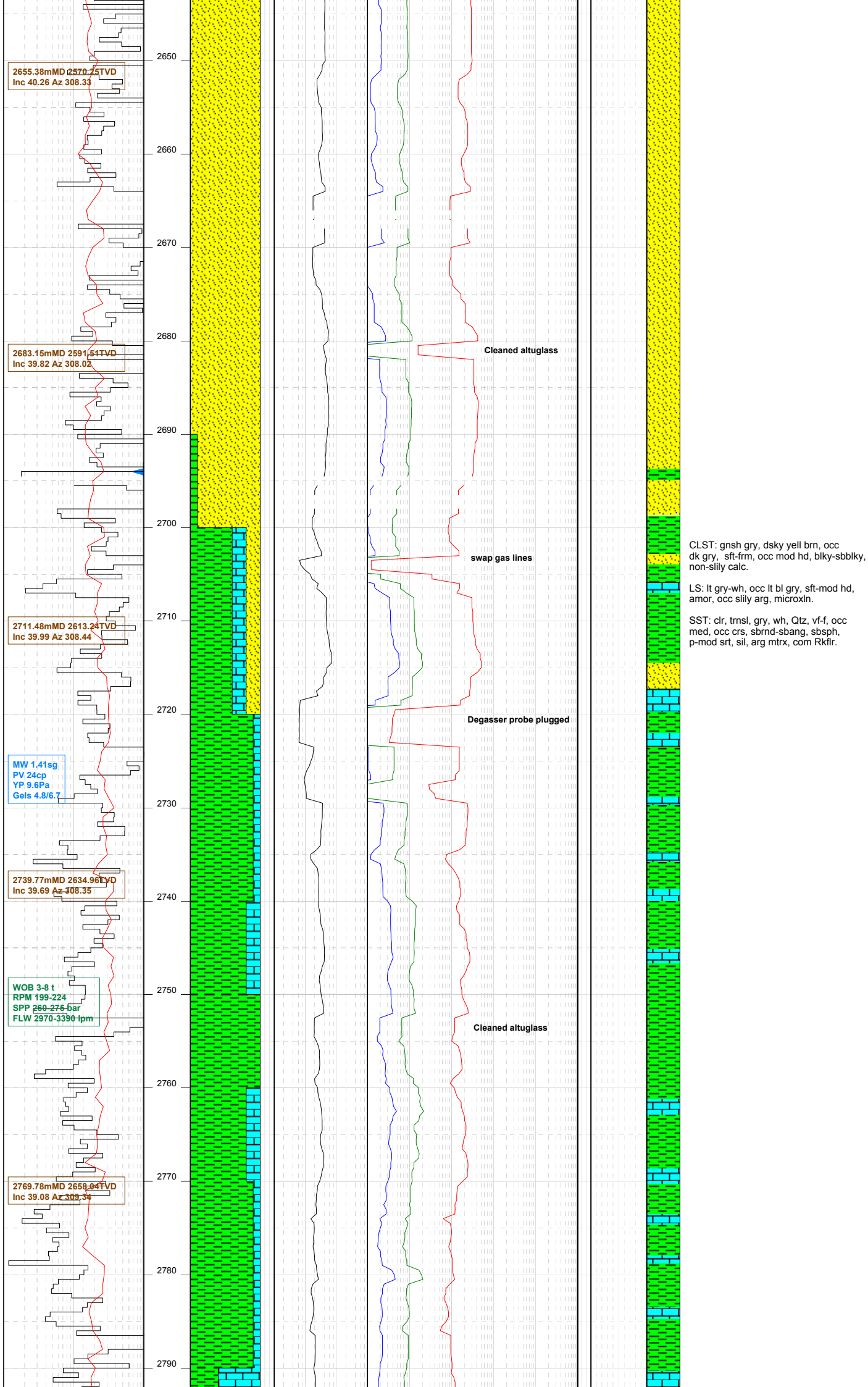


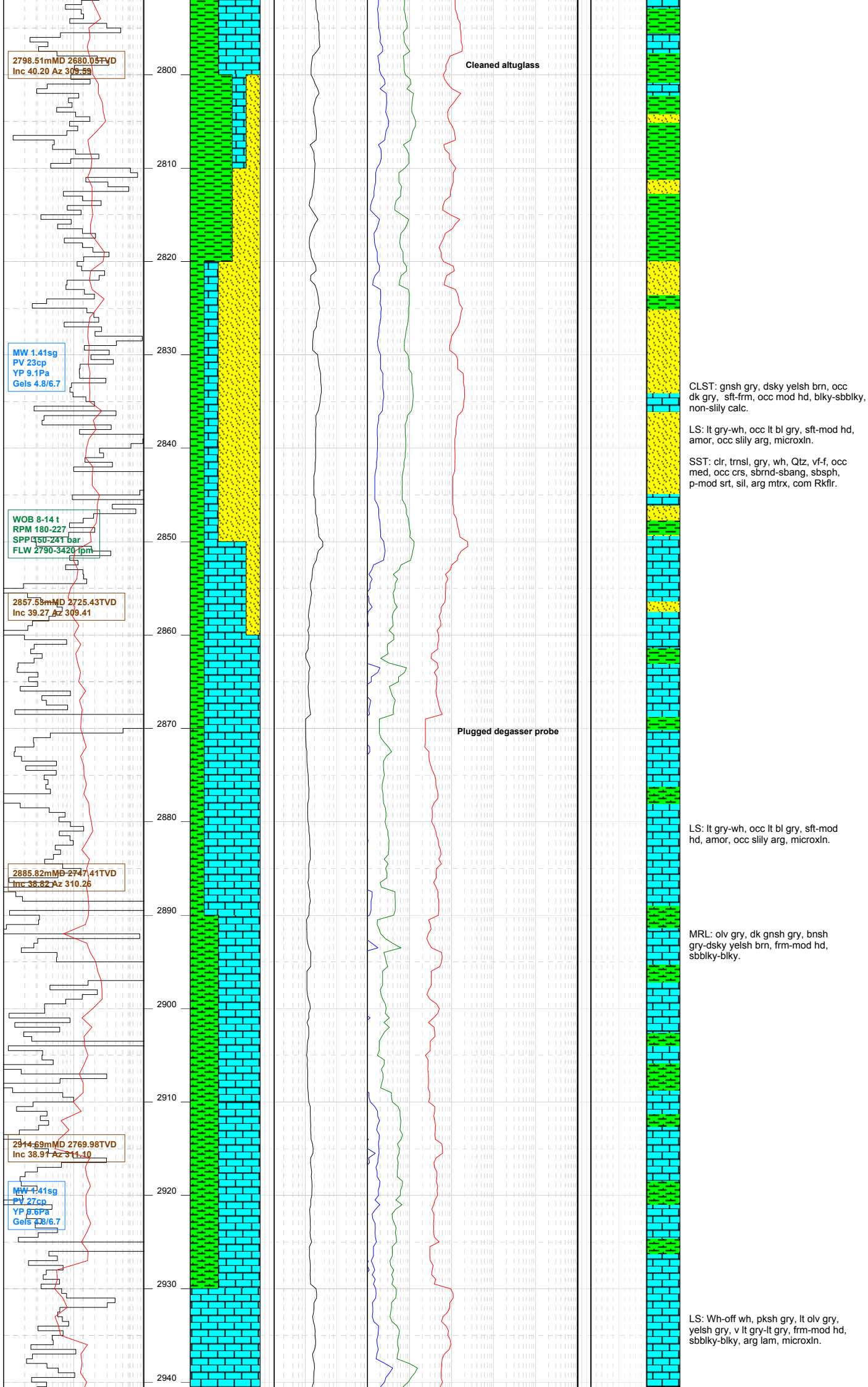
SST: clr, trnsl, gry, wh, Qtz, vf-f, occ med, occ crs, sbmnd-sbang, sbsph, p-mod srt, sil, arg mtrx, com Rklfr.

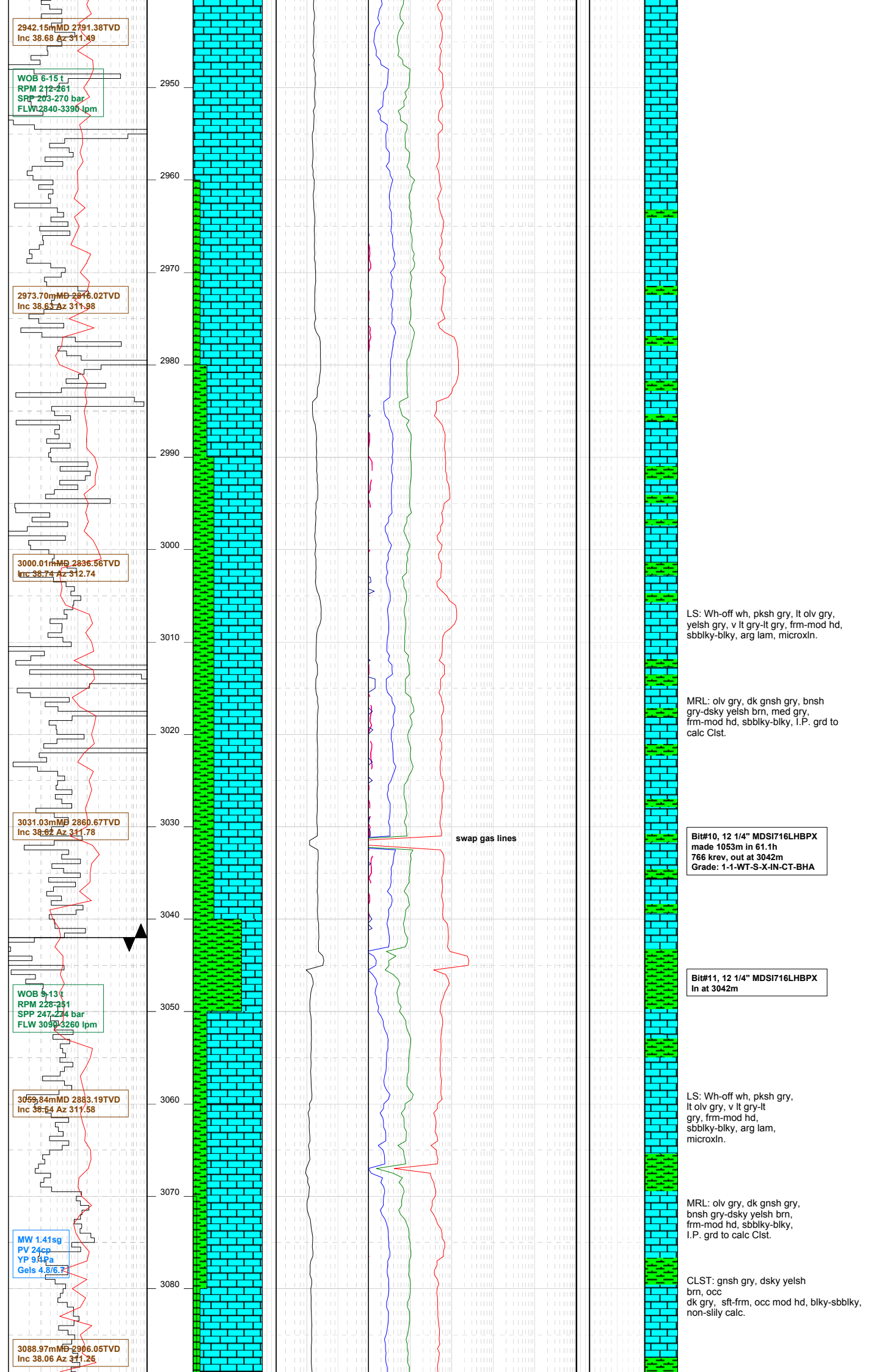
SST: clr, trnsl, gry, wh, Qtz, vf-f, occ med, occ crs, sbmnd-sbang, sbsph, p-mod srt, sil, arg mtrx, com Rklfr.

SST: clr, trnsl, gry, wh, Qtz, vf-f, occ med, occ crs, sbmnd-sbang, sbsph, p-mod srt, sil, arg mtrx, com Rklfr.

SST: clr, trnsl, gry, wh, Qtz, vf-f, occ med, occ crs, sbmnd-sbang, sbsph, p-mod srt, sil, arg mtrx, com Rklfr.







2942.15mMD 2791.38TVD
Inc 38.68 Az 311.49

WOB 6.15 t
RPM 212-261
SPP 203-270 bar
FLW 2840-3390 lpm

2973.70mMD 2816.02TVD
Inc 38.65 Az 311.98

3000.01mMD 2836.56TVD
Inc 38.74 Az 312.74

3031.03mMD 2860.67TVD
Inc 38.62 Az 311.78

WOB 5.13 t
RPM 226-251
SPP 247-274 bar
FLW 3050-3260 lpm

3055.84mMD 2883.19TVD
Inc 38.64 Az 311.58

MW 1.41sg
PV 24cp
YP 9.5Pa
Gels 4.8/6.7

3088.97mMD 2906.05TVD
Inc 38.06 Az 311.25

LS: Wh-off wh, pksh gry, lt olv gry,
yelsh gry, v lt gry-lt gry, frm-mod hd,
sbbiky-biky, arg lam, microxln.

MRL: olv gry, dk gnsh gry, bnsh
gry-dsky yelsh brn, med gry,
frm-mod hd, sbbiky-biky, I.P. grd to
calc Clst.

Bit#10, 12 1/4" MDSI716LHBPX
made 1053m in 61.1h
766 krev, out at 3042m
Grade: 1-1-WT-S-X-IN-CT-BHA

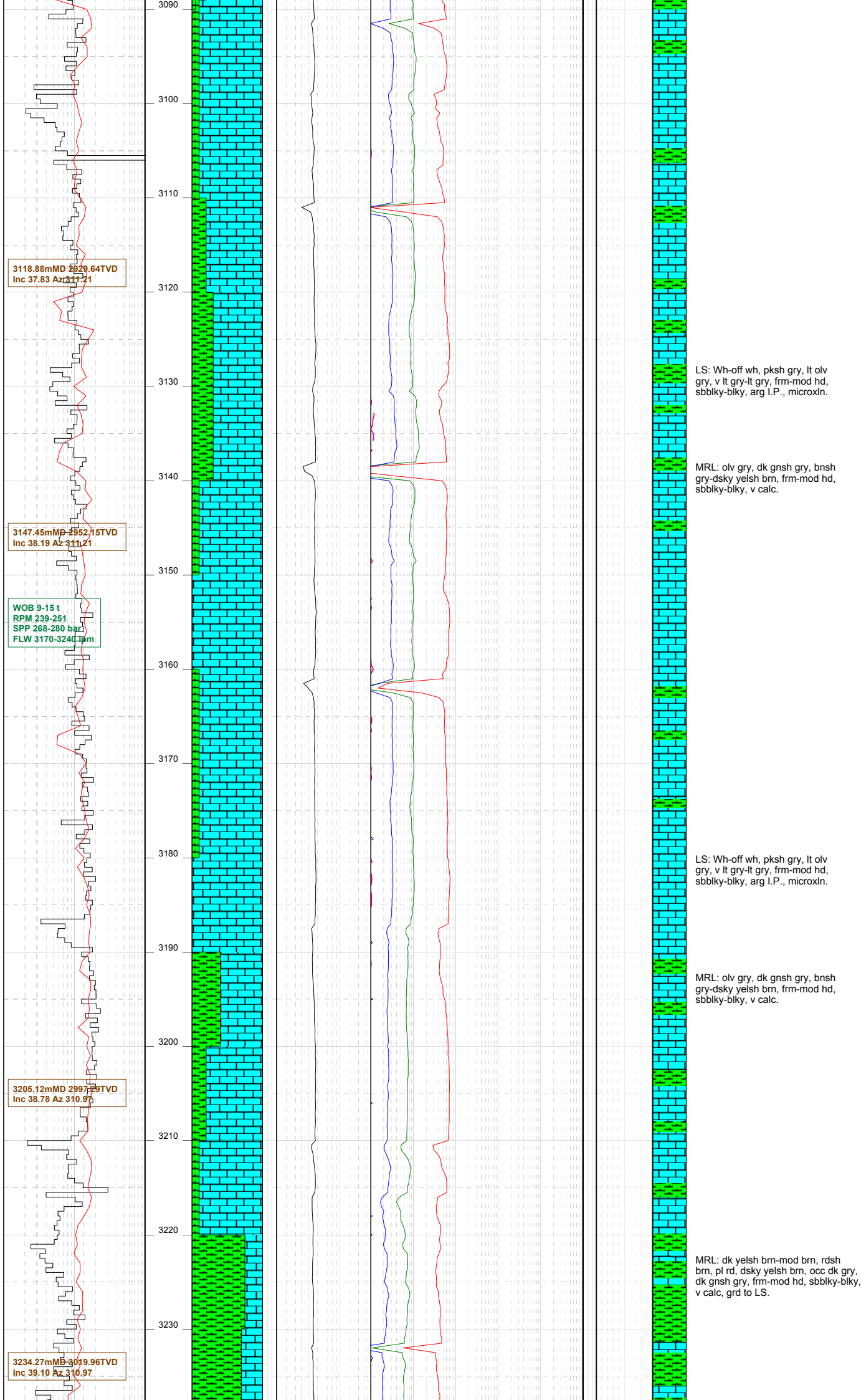
Bit#11, 12 1/4" MDSI716LHBPX
in at 3042m

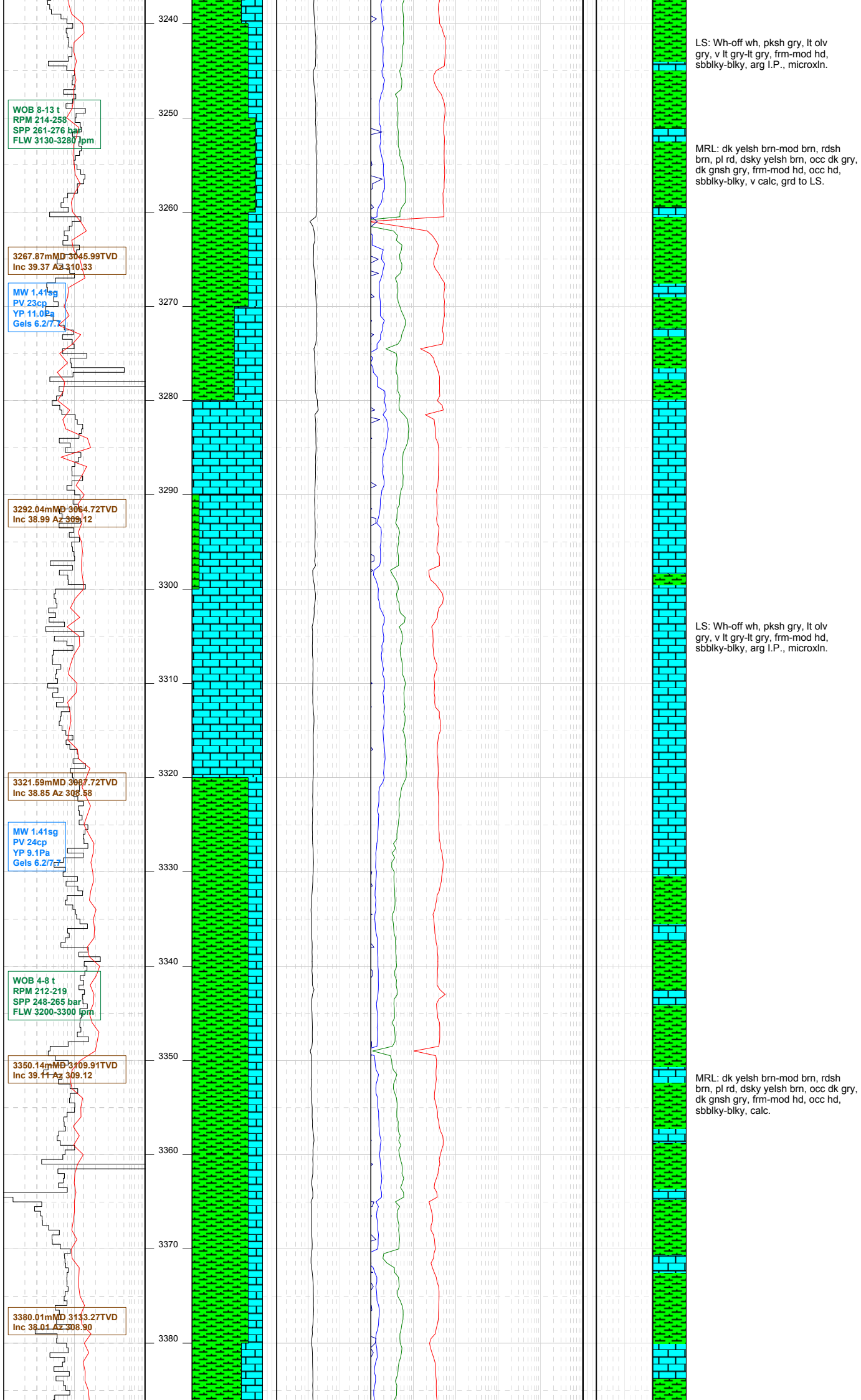
LS: Wh-off wh, pksh gry,
lt olv gry, v lt gry-lt
gry, frm-mod hd,
sbbiky-biky, arg lam,
microxln.

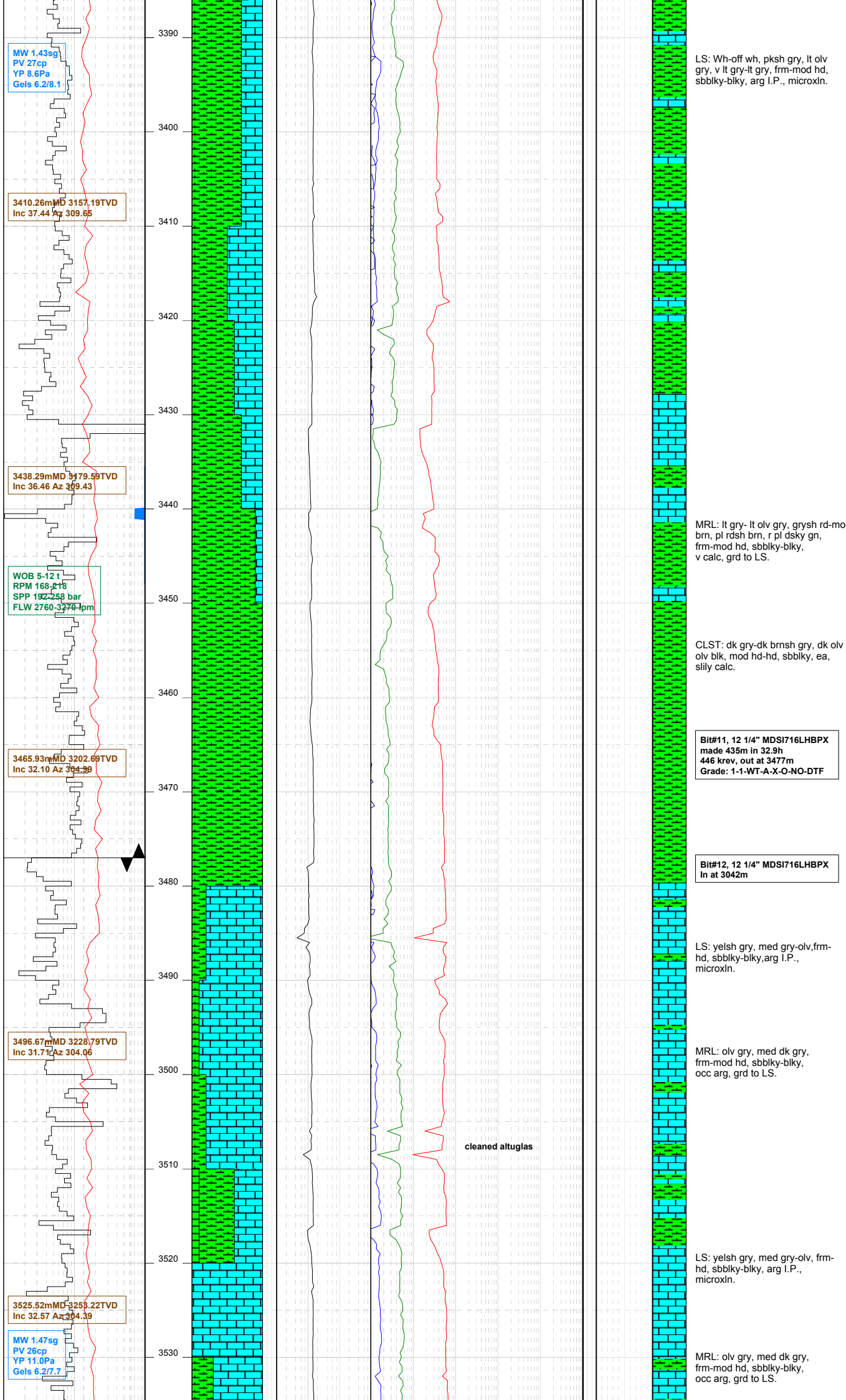
MRL: olv gry, dk gnsh gry,
bnsh gry-dsky yelsh brn,
frm-mod hd, sbbiky-biky,
I.P. grd to calc Clst.

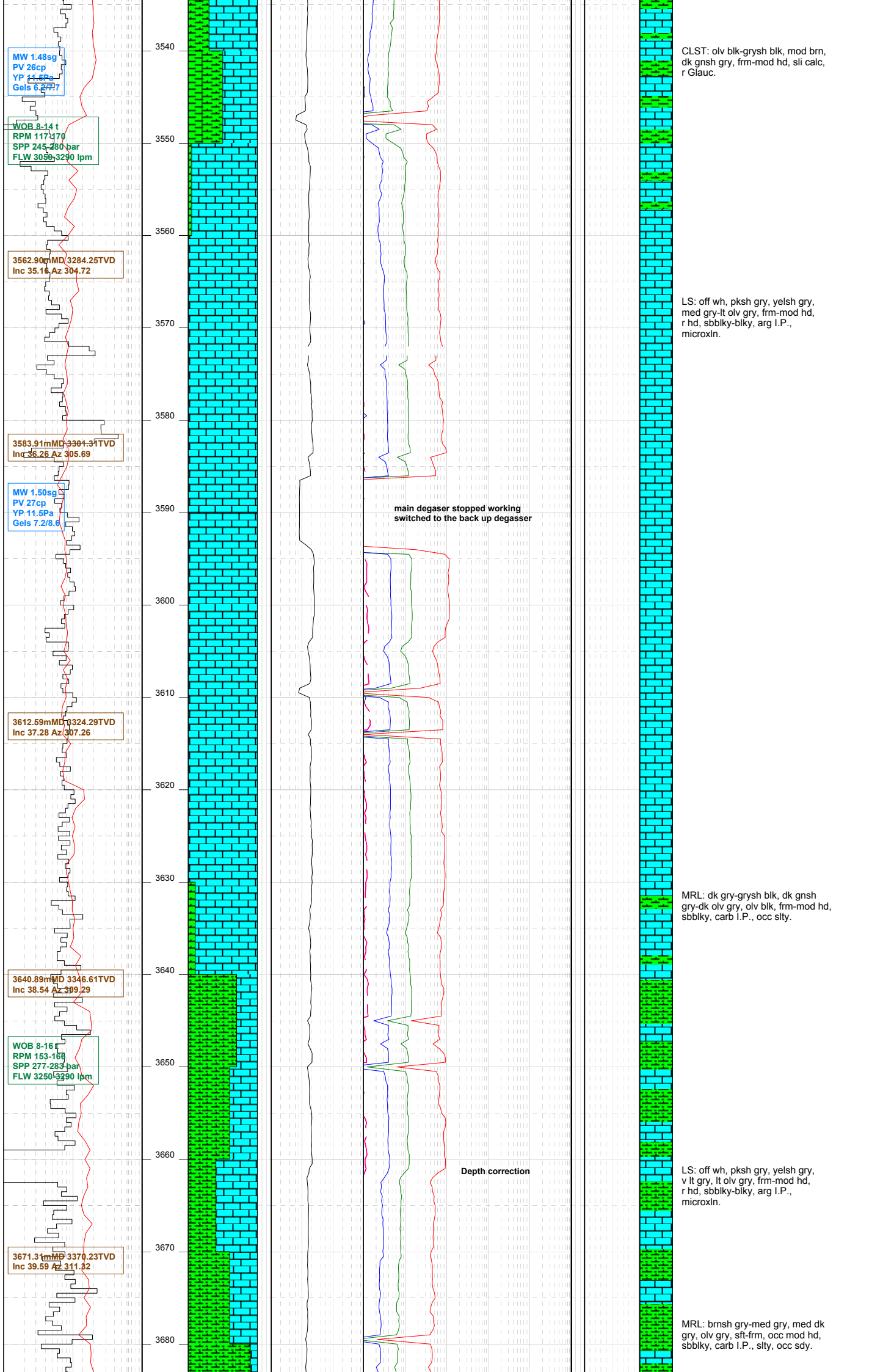
CLST: gnsh gry, dsky yelsh
brn, occ
dk gry, stf-frm, occ mod hd, biky-sbbiky,
non-siliy calc.

swap gas lines









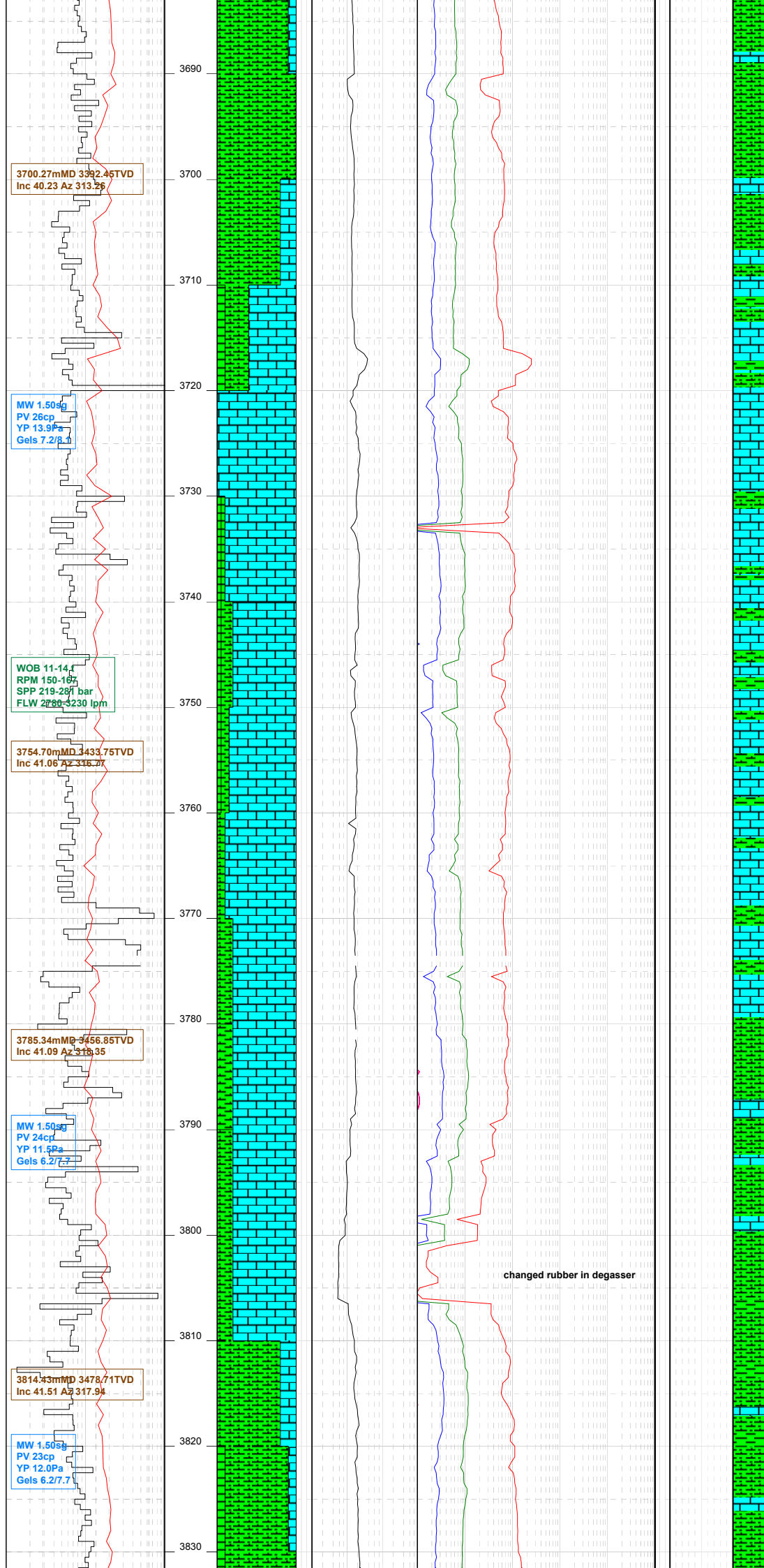
CLST: olv blk-grysh blk, mod brn, dk gnsh gry, frm-mod hd, sli calc, r Glau.

LS: off wh, pksh gry, yelsh gry, med gry-lt olv gry, frm-mod hd, r hd, sbblky-blky, arg I.P., microxin.

MRL: dk gry-grysh blk, dk gnsh gry-dk olv gry, olv blk, frm-mod hd, sbblky, carb I.P., occ slty.

LS: off wh, pksh gry, yelsh gry, v lt gry, lt olv gry, frm-mod hd, r hd, sbblky-blky, arg I.P., microxin.

MRL: brnsh gry-med gry, med dk gry, olv gry, sft-frm, occ mod hd, sbblky, carb I.P., slty, occ sdy.

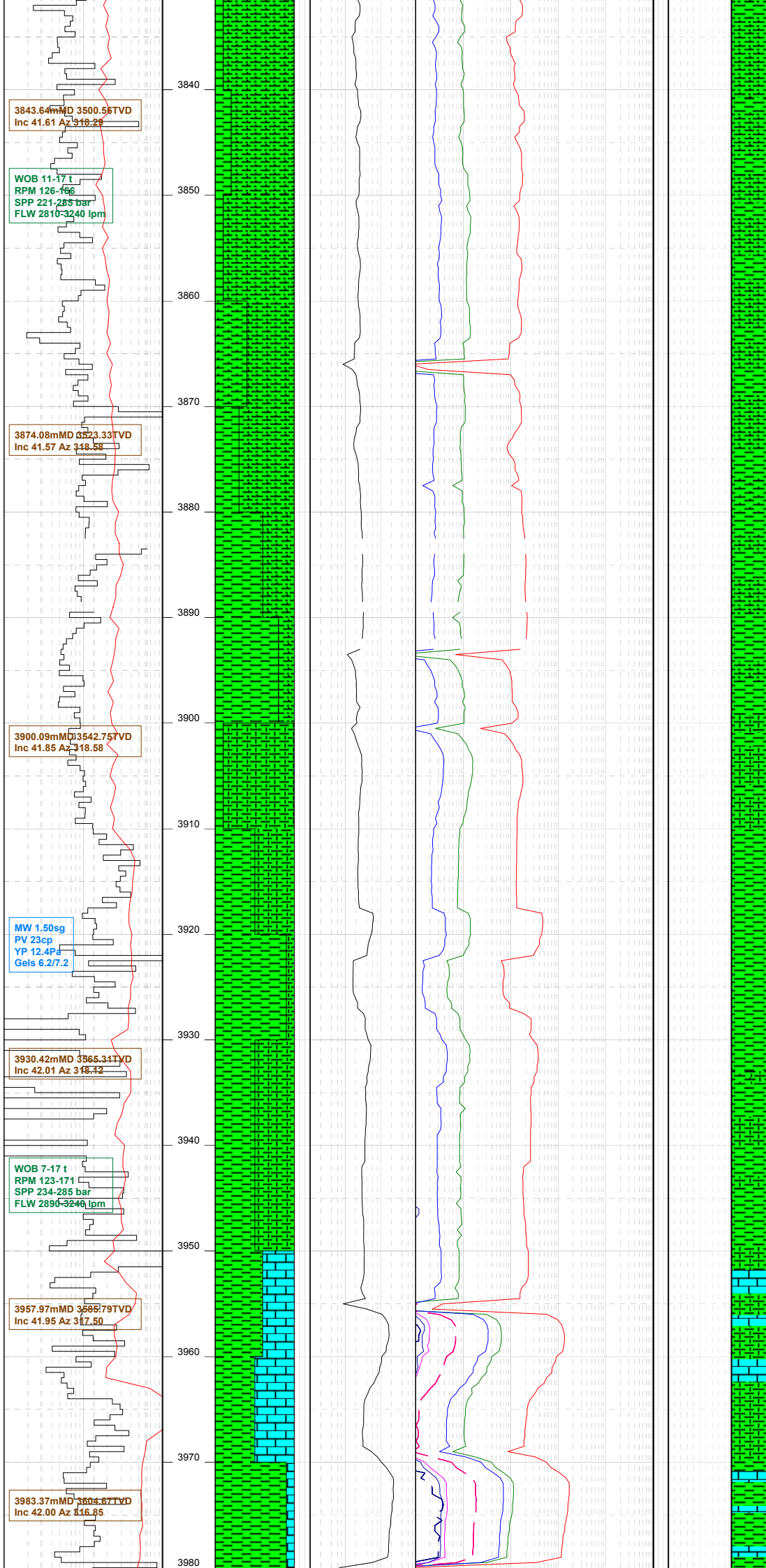


LS: v lt gry, yelsh gry, frm-mod hd, sbbiky-blky, arg I.P., occ grd to slty/sdy LS microxln.

MRL: brnsh gry, lt olv gry-yelsh gry, frm-mod hd, sbbiky, slty I.P., r sndy, Tr Glauc.

LS: off wh, pnksh gry, lt olv gry, yelsh gry, frm-mod hd, occ v hd, sbbiky-blky, arg, glauc I.P.

CLST: grysh blk-olv blk, dk gnsh gry, mod hd-hd, occ v hd, sbbiky-blky, ea, carb I.P., slty I.P., non calc.



MRL: olv gry, brnsh gry, gnsh gry, m dk gry-dk gry, lt olv gry, frm-mod hd, sbbiky-blky, slty, sndy I.P., carb, occ glauc, grd to Clst.

CLST1: grysh brn, gnsh gry-dk gnsh gry, mod hd, hd, sbbiky-blky, occ slty, slity-non calc.

CLST2: dk gnsh gry, olv gry, mod hd, hd, sbbiky-lky, occ glauc, v calc.

CLST1: mod brn, olv blk, dk gry, frm-mod hd, sbbiky-blky, occ slty, non calc.

LS: yelsh gry, wh-v lt gry, mod hd, sbbiky-blky, occ arg, microxln.

