NORSK HYDRO WELLSITE LITHOLOG

Scale 1:500

Well	6407/7-6	Platform	Scarabeo 6	Geologists	M.Eien, K.Kalgraff,
Field	Njord	RKB-MSL	26m		E.Skottlien, Å.Halvorsen
Licence	PL 107	Water depth	336m		

DATE | GAMMA / ROP (ROP 200–0 m/hr; GR 0–150 api) | DEPTH m MD | RESISTIVITY (RD 0.2–200 ohmm; RM 0.2–200 ohmm; RS 0.2–200 ohmm) | CORES | TOTAL GAS (GAS 1–100 %; GAS 0.01–1 %) | CHROMATOGRAPH (METHANE, ETHANE, PROPANE, I-BUTANE, N-BUTANE, I-PENTANE, N-PENTANE; 10–100000 ppm) | INTERPRETED LITHOLOGY | SHOWS | DESCRIPTION

Bentonite water based mud

Inc:1.3° Az:356.4° 369.6 m

Inc:1.3° Az:321.9° 378.4 m

Inc:1.1° Az:349.2° 388.7 m

Inc:1.4° Az:11.2° 398.0 m

Inc:1.3° Az:357.5° 410.9 m

Inc:1.5° Az:30.7° 418.6 m

Inc:1.7° Az:2.5° 428.8 m

Inc:1.3° Az:265.9° 441.2 m

30" 446.5 m MD 446.5 m TVD

Inc:1.3° Az:10.7° 451.1 m

Inc:1.2° Az:8.7° 459.1 m

Inc:1.3° Az:3.1° 468.4 m

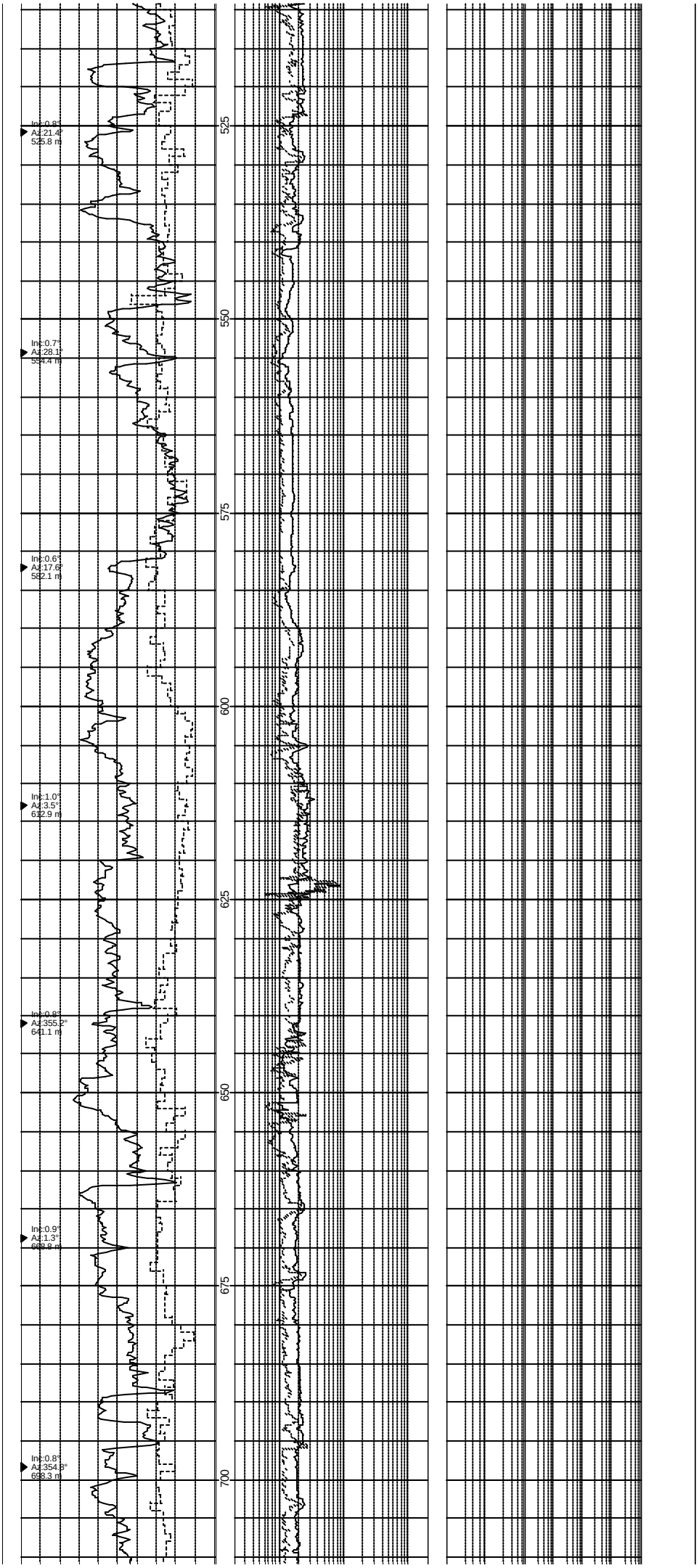
Inc:1.3° Az:9.1° 497.0 m

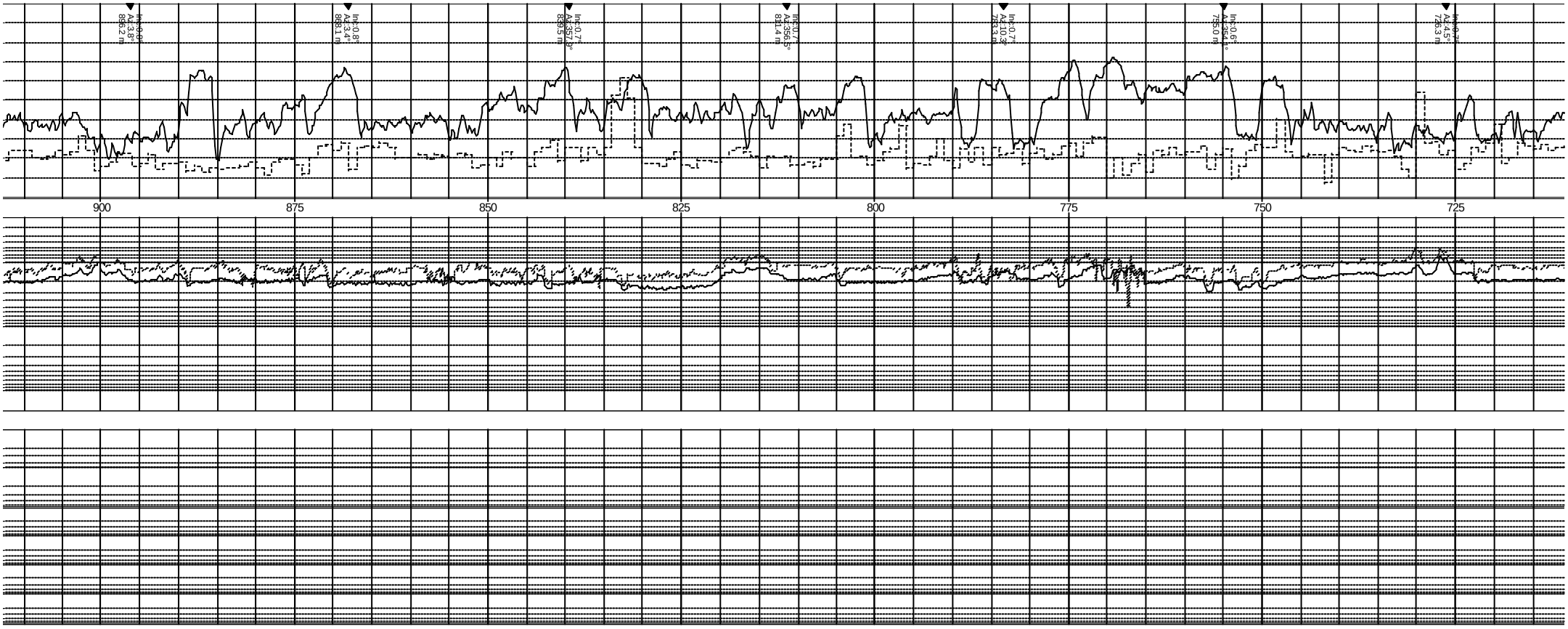
GR probably affected by hole size and hi-vis pills in the 36" and 26" sections

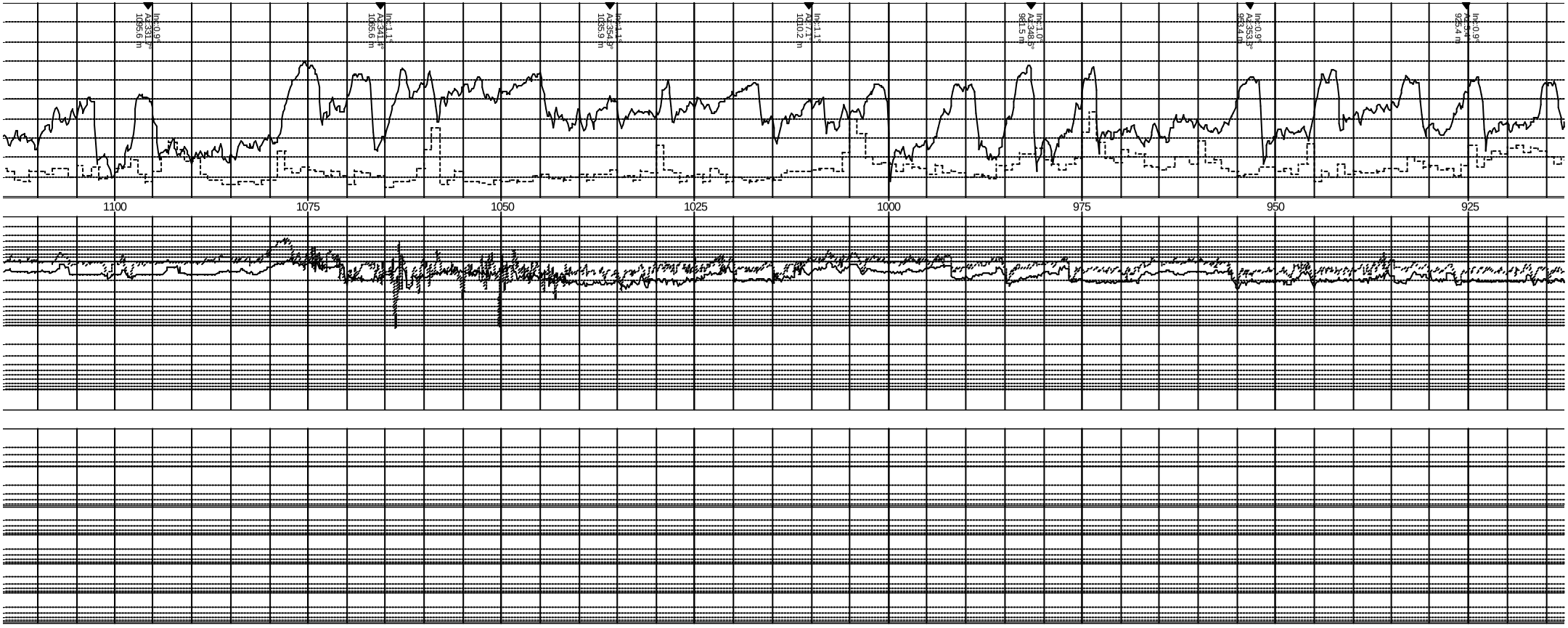
RES probably affected by hole size and hi-vis pills in the 36" and 26" sections

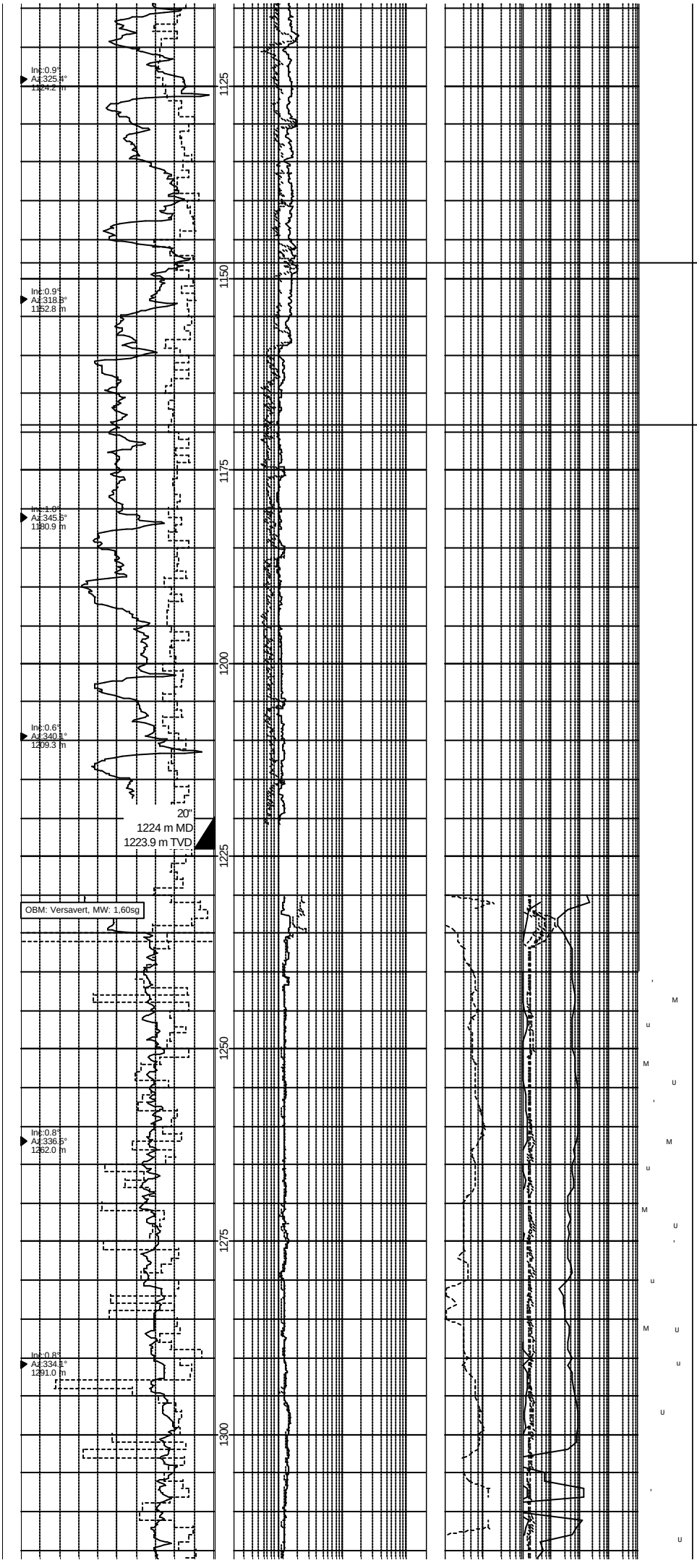
Top Naust Fm at 362 m MD / 362 m TVD

No returns to surface from seabed at 362m MD / 362 m TVD, down to 17½" section at 1224m.


Inc:0.8°
Az:21.4°
525.8 m
Inc:0.7°
Az:28.1°
554.4 m
Inc:0.6°
Az:17.6°
582.1 m
Inc:1.0°
Az:3.5°
612.9 m
Inc:0.8°
Az:355.2°
641.1 m
Inc:0.9°
Az:1.3°
668.8 m
Inc:0.8°
Az:354.8°
698.3 m
525
550
575
600
625
650
675
700


Int:0.6°
Az:3.8°
836.2 m
Int:0.8°
Az:3.4°
868.1 m
Int:0.7°
Az:357.3°
839.5 m
Int:0.7°
Az:356.5°
831.4 m
Int:0.7°
Az:10.3°
721.4 m
Int:0.6°
Az:354.1°
755.0 m
Int:0.7°
Az:4.5°
726.3 m
900
875
850
825
800
775
750
725


Int:0.9°
Az:331.7°
1095.6 m
Int:1.1°
Az:341.4°
1055.6 m
Int:1.1°
Az:354.3°
1035.9 m
Int:1.1°
Az:7.1°
1010.2 m
Int:1.0°
Az:348.6°
981.5 m
Int:0.9°
Az:353.3°
953.4 m
Int:0.9°
Az:3.4°
925.4 m
1100
1075
1050
1025
1000
975
950
925

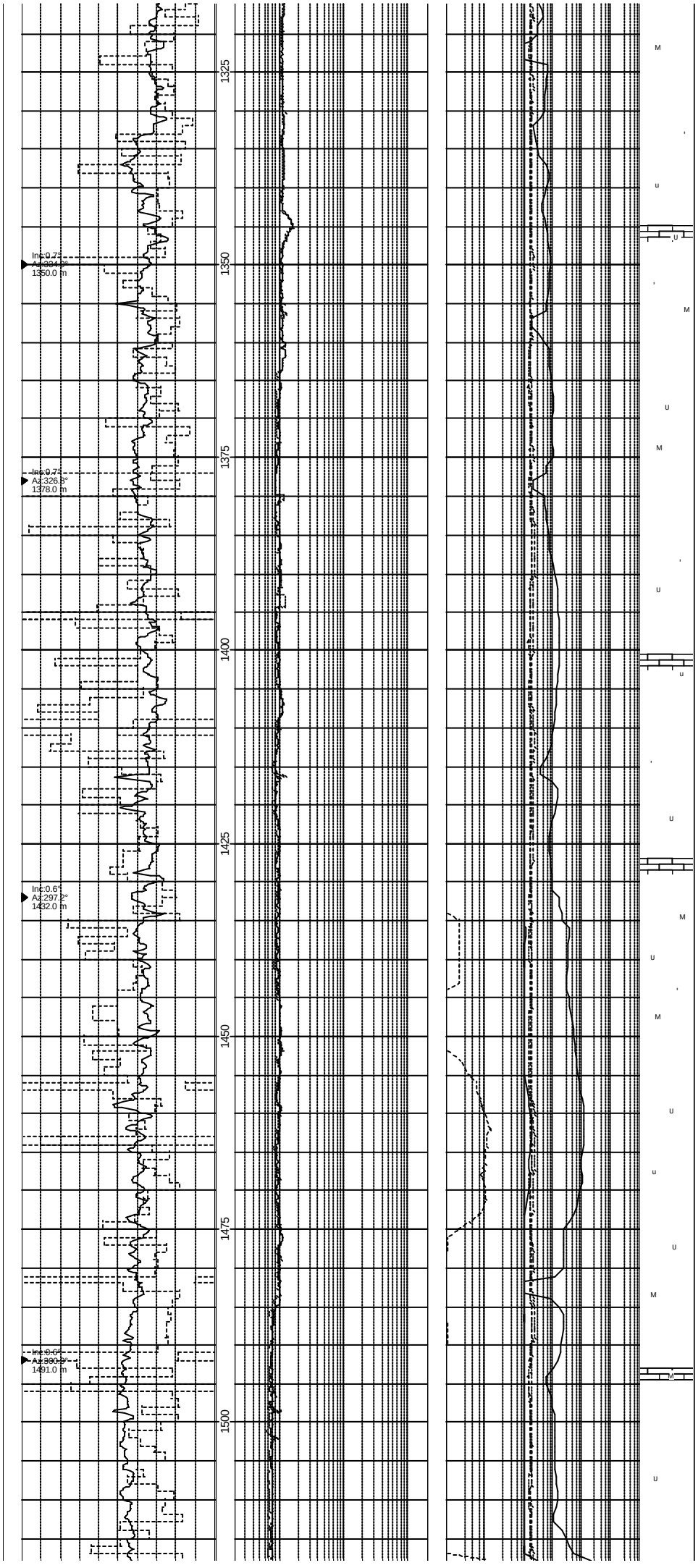


Top Kai Fm at 1148 m MD / 1147.9 m TVD

Top Brygge Fm at 1169 m MD / 1168.9 m TVD

Clst med dk gry - olv gry, blky, occ sbfis, occ slty, Tr Micromic, Tr Micropyr, r Glauc

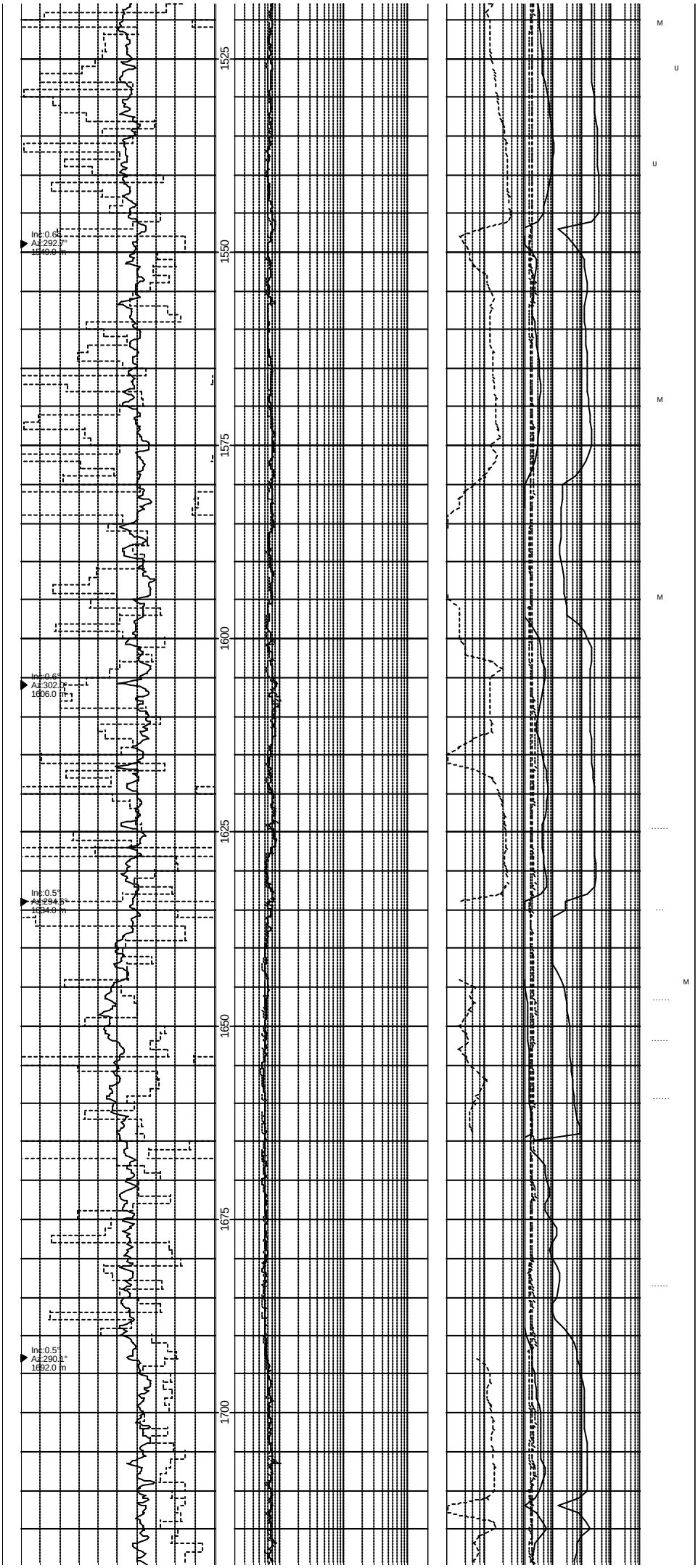
Clst olv blk - olv gry - brnsh blk, frm, blky , occ sbfis, non - slily calc, Tr Micromic, Tr Micropyr, r Glauc



Ls: lt olv gry - med lt gry, frm - mod hd, blky, microxln, arg lam,

Ls: lt olv gry - med lt gry, frm - mod hd, blky, microxln, arg lam,

Clst grnsh blk - olv blk, frm, blky, non calc, l.P. slty - vf sdy, r Micromic, r Micropyr.



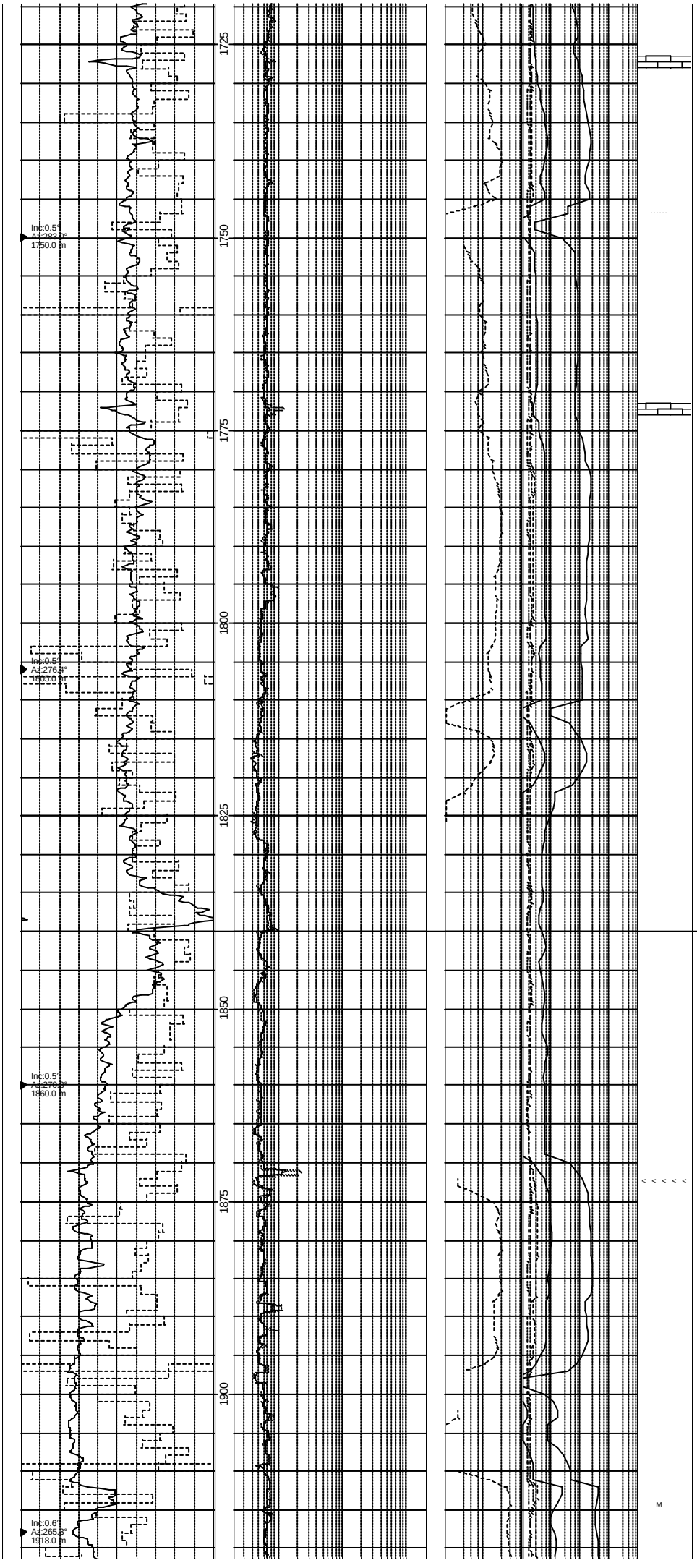
Clst: olv gry, frm, blky, non calc, slily slty, gd Tr Micromic, Tr Micropyr, r Glauc, r carb mat

Clst: olv gry, frm, blky, non calc, slily slty, occ slily calc, Tr Micromic, Tr Micropyr, r Glauc, r carb mat

Ls: lt olv gry - med lt gry, frm - mod hd, blky, microxln, dol

Sst: v lt gry-yel gry, slty-v f,w rnd, w srt, sft-frm, occ hd, calc-dol cmt, no vis por

Sst: clr-wh, clr trnsl qtz, f-med, pred med, w rnd, w srt, sft-frm, slily calc cmt, no vis por



Clst: olv gry-med bl gry, blky, frm, non calc, slily slty, Tr Micromic, v f carb frag

Ls: wh- lt brn gry-pl yel org, sft-frm, occ dol, pred arg, occ microxln

Sst: clr trnsl, f-med, pred med, sbang-ang, hd, v wl sil cmt, occ slily dol cmt, pred lse grns, no vis por

Clst: olv gry-olv blk, med bl gry- bl gry, blky, frm, non-occ slily calc, occ slty, Tr Micromic, Tr Glauc, occ v f carb frag

Clst: varicol, mod rd brn-gry rd, olv gry-olv blk, med bl gry- bl gry, blky, sft-frm, pred frm, non calc-calc, occ slily sdy, occ slily slty, Tr Micromic, Tr Glauc, occ v f carb frag

Top Tare Fm at 1840 m MD / 1839,9 m TVD

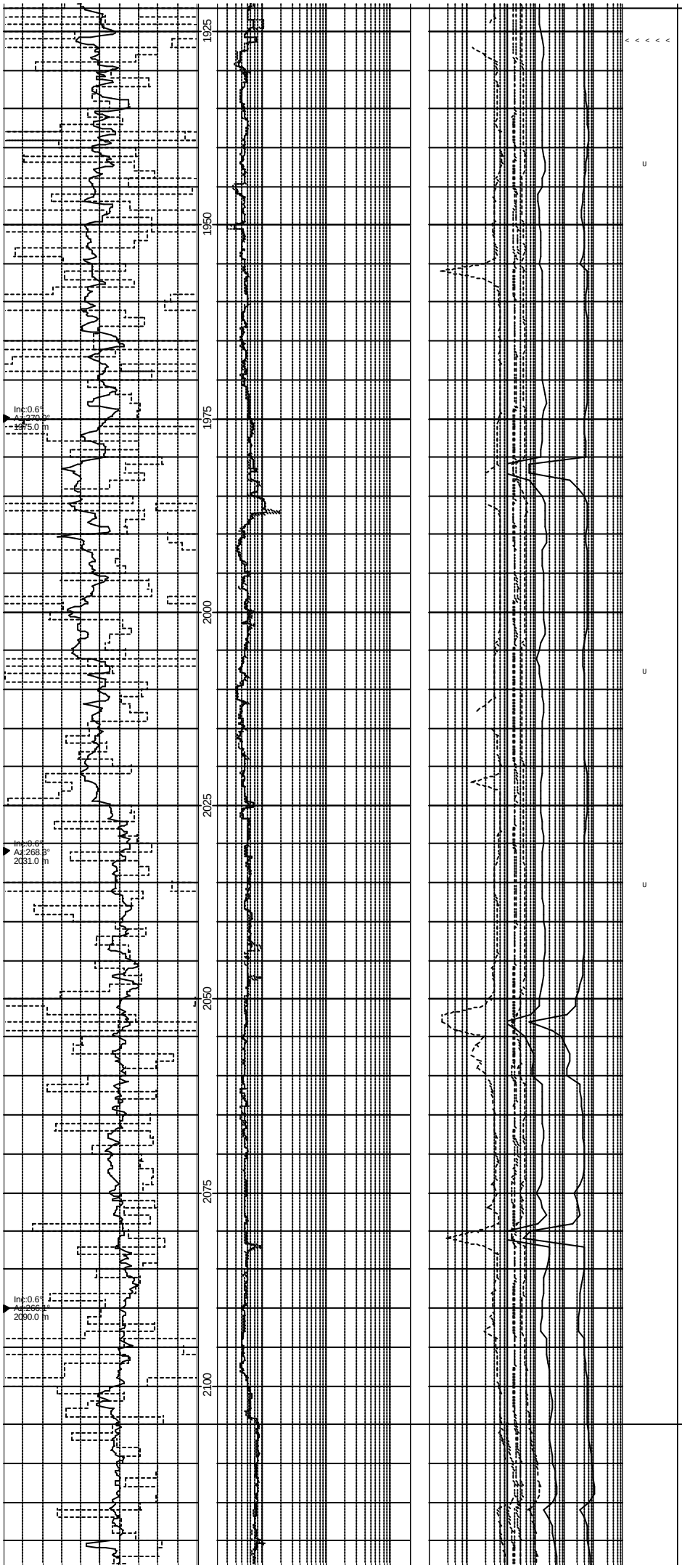
Ls: wh- lt brn gry-pl yel org, sft-frm, occ dol, pred arg, occ microxln

Sst: clr trnsl, v f-f, sbrndd-rndd, w srt, hd, occ sil cmt, occ slily dol cmt, pred lse grns, no vis por

Clst: olv gry-olv blk, occ med bl gry- bl gry, blky, sft-frm, pred frm, pred non-slily calc, occ v calc, occ slily slty, Tr Micromic, Tr Glauc, occ v f carb frag

Clst: olv gry-olv blk, blky, frm, pred non-slily calc, occ v calc, occ slily slty, Tr Micromic, r Tr Glauc

Sst: clr trnsl-wh, vf-f, sbang-sbrndd, w srt, frm-hd, occ sil cmt, occ slily calc cmt, pred lse grns, no vis por



Top Tang Fm at 1922 m MD / 1921.8 m TVD

Ls: lt brn gry-pl yel org, blky, frm-hd, occ dol, occ arg, pred microxln

Sst: med lt gry-lt gry, clr trnsl-wh qtz, v f-f, sbrndd-rndd, w srt, frm-hd, occ sil cmt, occ slily calc cmt, arg, pred lse grns, tr vis por

Clst olv gry- olv blk, dk gnsh gry- med dk gry, frm, blky, non calc, r Micromic, r Glauc.

Clst olv gry-olv blk, gnsh gry, frm, blky, non calc, r Micromic, occ micropyr,

Ls: wh- lt gry, yelsh gry, frm-mo hd, blky, occ arg lam, pred microxln,

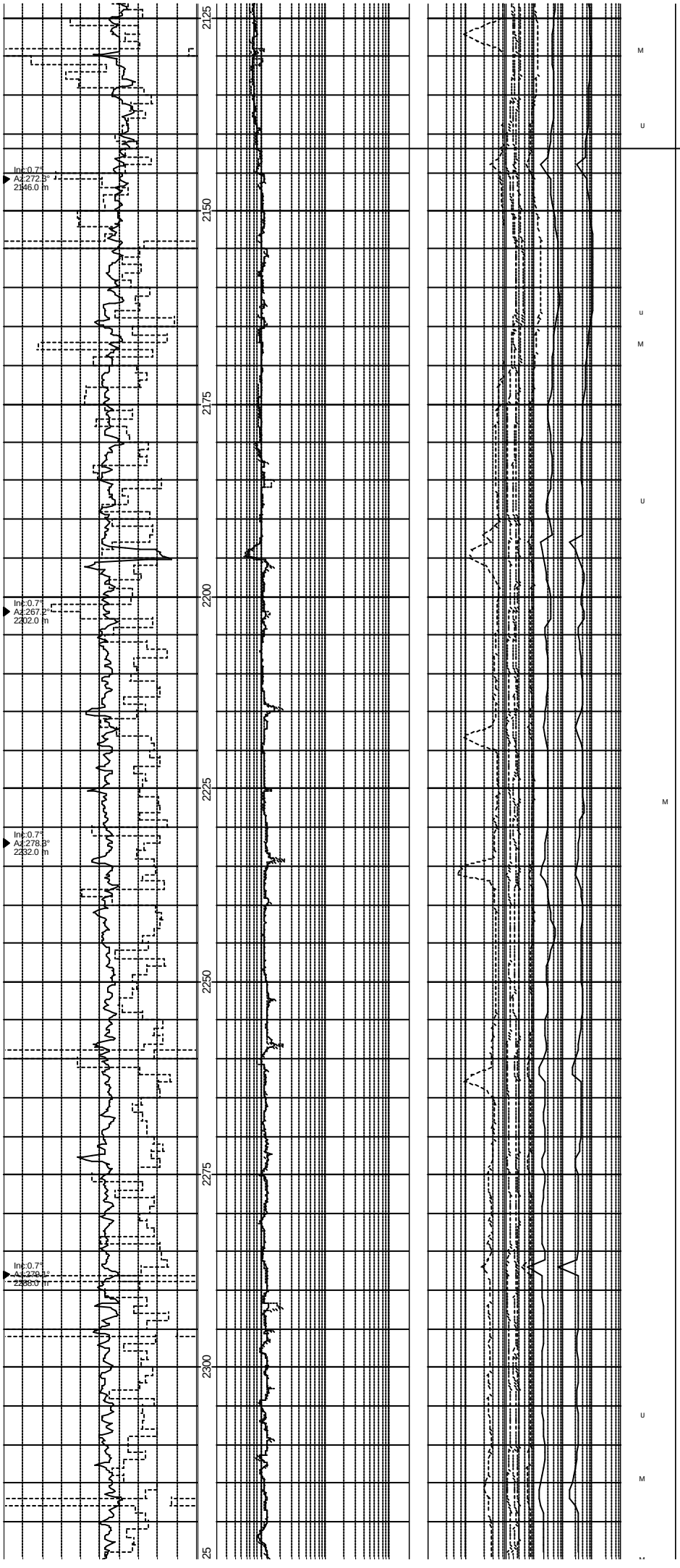
Ls: wh-lt gry, yelsh gry, mod yelsh brn-dk yelsh or, blky, frm-hd, occ Dol, occ arg lam, pred microxln

Clst olv gry-olv blk, gnsh gry, dk gry, frm, blky, non-slily calc, r micromic

Ls: wh-lt gry, yelsh gry, mod yelsh brn, frm-mod hd, l.P. arg

Top Springar Fm at 2105 m MD / 2104.8 m TVD

Clst med dk gry-med gry, occ grad olv blk, frm, blky, slily slty, non-slily calc, Tr micromic, Tr Micropyr, Tr Pyr nod, I.P. slty, r Glauc

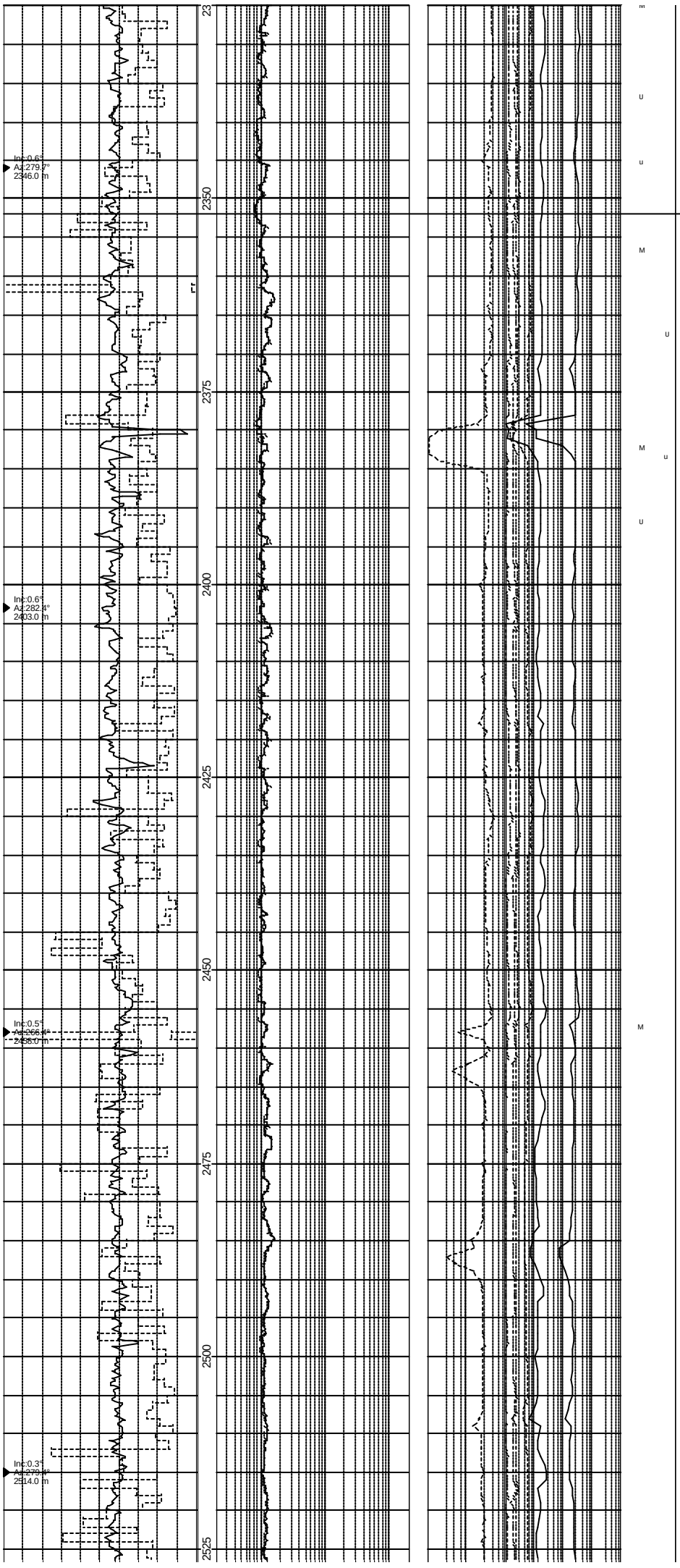


Top Nise Fm at 2142 m MD / 2141.8 m TVD

Clst m dk gry-med gry, frm, blky,v slty, grad Slst, non-slily calc, gd Tr Micromic, gd Tr Micropyr, gd Tr Glauc,

Ls: wh-lt gry, yelsh gry, mod yelsh brn, frm-mod hd, I.P. arg

Clst m dk gry - med gry, frm, blky,v slty, grad Slst, non - slily calc, gd Tr Micromic, gd Tr Micropyr, gd Tr Glauc,



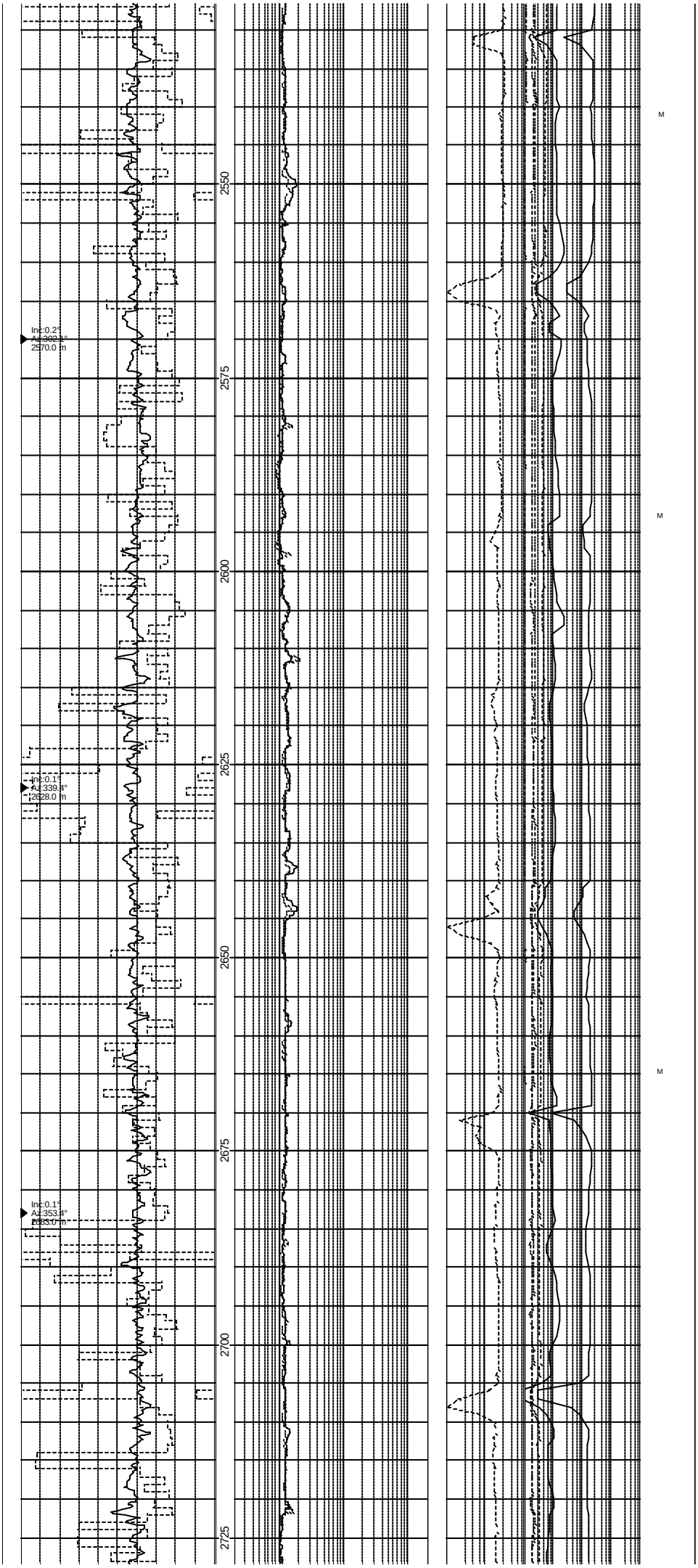
Clst: med dk gry-med gry, frm, blky, slty grad Sltst, non-occ slily calc, Micromic, Tr Micropyr, Tr Glauc, r Tr Carb frag

Ls: wh-lt gry, occ dol yel gry, occ v f blk spt, frm-hd, occ arg, pred microxln

Top Kvitnos Fm at 2352 m MD / 2351.8 m TVD

Clst: med dk gry-med gry, frm, blky, slily slty, non-occ slily calc, Tr Micromic

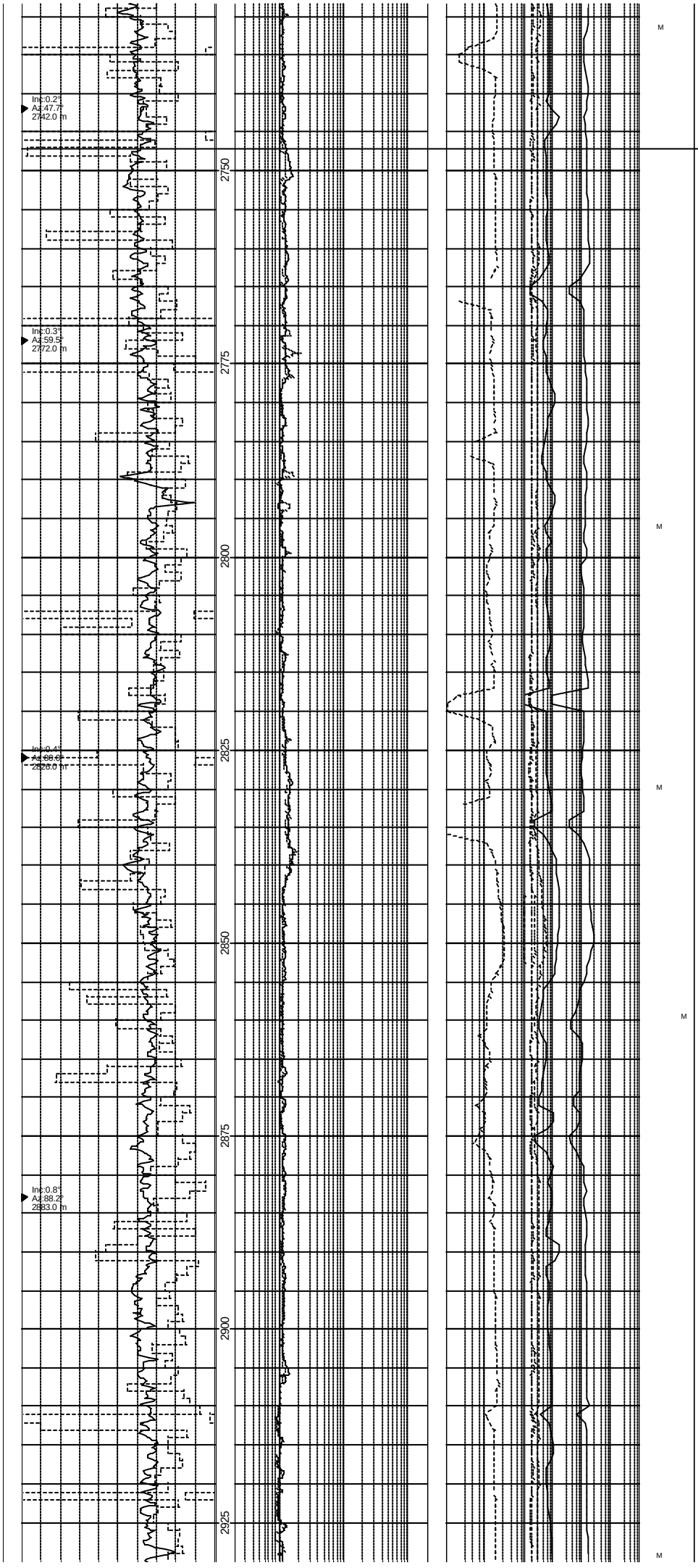
Sst: clr trnsl, f- v crs, sbrndd-rnd, pr srt, hd, no vis cmt, lse Qtz grns



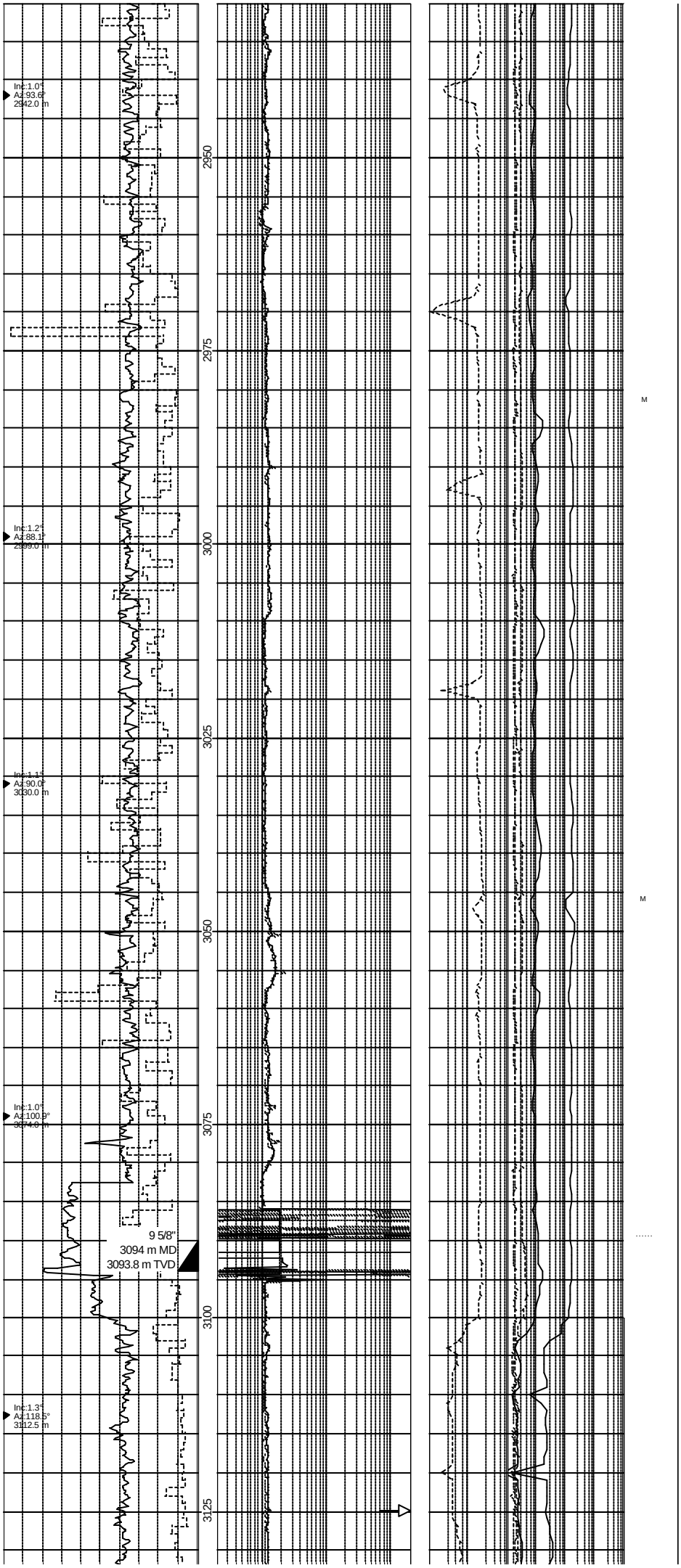
Ls: wh-med lt gry, occ yel gry, frm-hd, occ dol, occ arg lam, occ slty, pred microxln

Clst dk gry-med dk gry, frm, blky, slily slty, non-occ slily calc, Tr Micromic

Ls: wh-med lt gry, occ yel gry, frm-hd, occ dol, occ arg lam, occ slty, pred microxl



Ls: pred dk yelsh brn, occ wh-lt gry, frm, blky, pred microxln, I.P. arg, occ dol



Ls: wh-lt gry, occ yel brn, frm, blky, pred arg, occ microxln, occ dol

Ls: lt gry-lt brn gry, occ yel brn, frm, blky, pred arg, occ microxln, occ dol

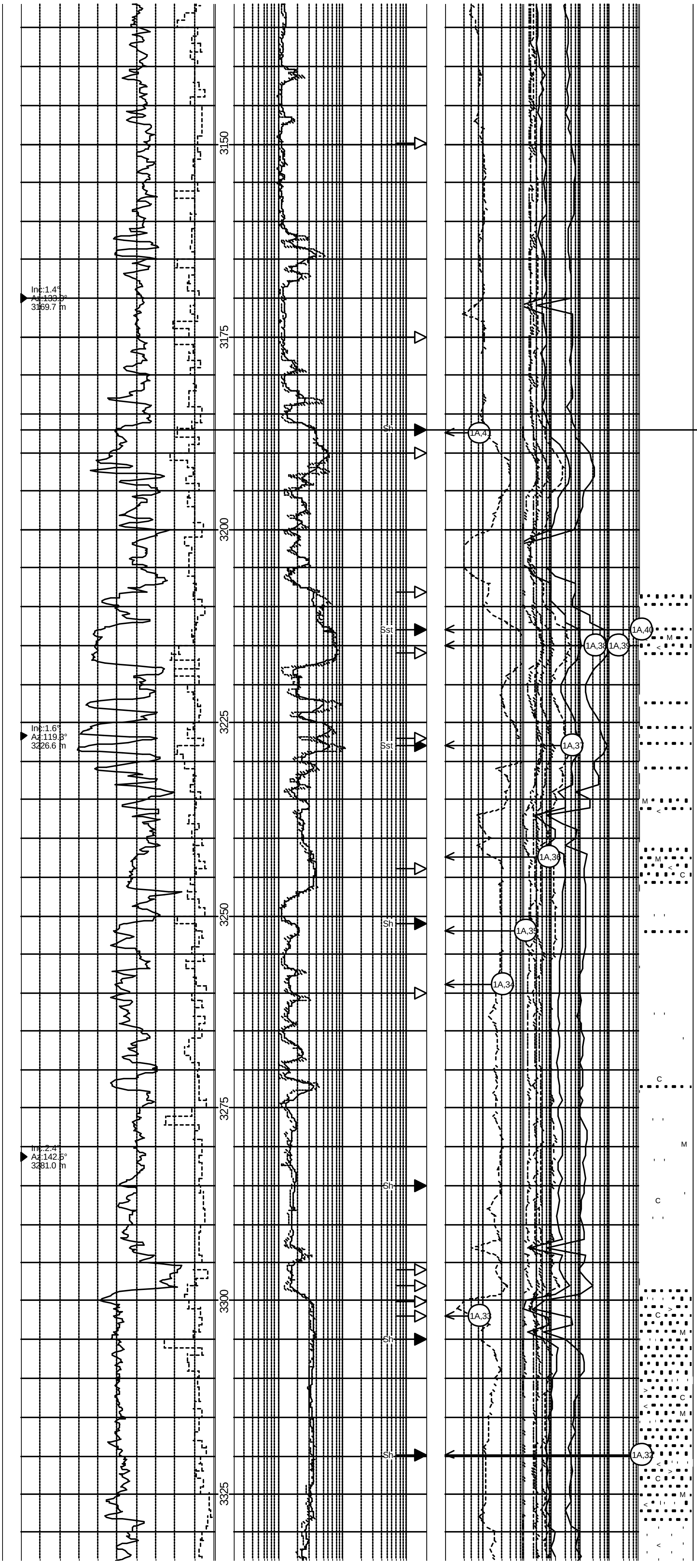
Clst: dk gry-med dk gry, frm, blky, slily slty, non-occ slily calc, Tr Micromic, Tr Micropyr Nod

Clst: olv blk-dk gry, firm-mod hd. sbfis-fis, gen sl calc-calc, micromic, slty.

Sst: lt gry,clr-mky Qtz,f-r crs, sbang, mod srt, mod hd-hd, dol cmt, r Tr carb, nvp.n.s.

Sst: lt gry-med lt gry, clr-mky Qtz, v f-f, occ med-crs, sbang-sbrndd, wl-mod srt, frm-mod hd, slily calc-dol cmt, r Tr Carb, nvp, n.s

Ls: wh-v lt gry, frm, occ slily arg, pred microxln



Sst: med lt gry-med gry, clr-mky Qtz, v f-m, pred f-m, r crs, sbang-sbrndd, wl-mod srt, frm-mod hd, slily calc-calc cmt, pred arg, nvp, n.s

Ls: wh-med lt gry, frm, slily slty, occ arg

Sst: med lt gry-med gry, clr-mky wh Qtz, v f-f, occ m, r crs, sbang-sbrndd, mod srt, frm-mod hd, slily-v calc cmt, pred arg, Tr Carb Frag, nvp, n.s

Clst: olv blk-dk gry, firm-mod hd, sbfis-fis, calc-v calc, occ grad Mrl, micromic, slty

Intra Lange Sst at 3187 m MD / 3186.7 m TVD

Sltst: olv blk-dk gry, firm-mod hd, sbfis-fis, calc-v calc grad Mrl, micromic, arg , occ slily sdy

Sst: med gry-med dk gry, occ med lt gry, clr-mky wh Qtz, v f-f, r med, ang-sbang, wl srt, fri-frm, slily-v calc cmt, pred v calc, slty-arg, r Tr Carb Frag, Tr Micromic, r Tr Glauc, nvp, n.s

Ls: w lt gry-med lt gry, occ clr trnsl microxln, frm-mod hd, pred arg

Sst: med gry- dk gry, clr-mky wh Qtz, v f- med, pred f-med, sbang-sbrndd, pred ang-sbrndd, wl-mod srt, fri-frm, calc-v calc cmt, slty-arg, Tr Carb Frag, Tr Micromic, r Tr Glauc, nvp, n.s

Ls: lt brn gry-m gry-olv gry,mod hd,blky,microxln,loc v arg grad Mrl

Clst(1): dk gry-olv blk,firm-mod hd,sbfis,calc loc grad Mrl,gen var slty loc grad Sltst,Tr carb,Tr sdy vf.

Clst(2): m gry-olv gry,mod hd,sbfis-fis,non calc,micromic,slty r vf sdy.

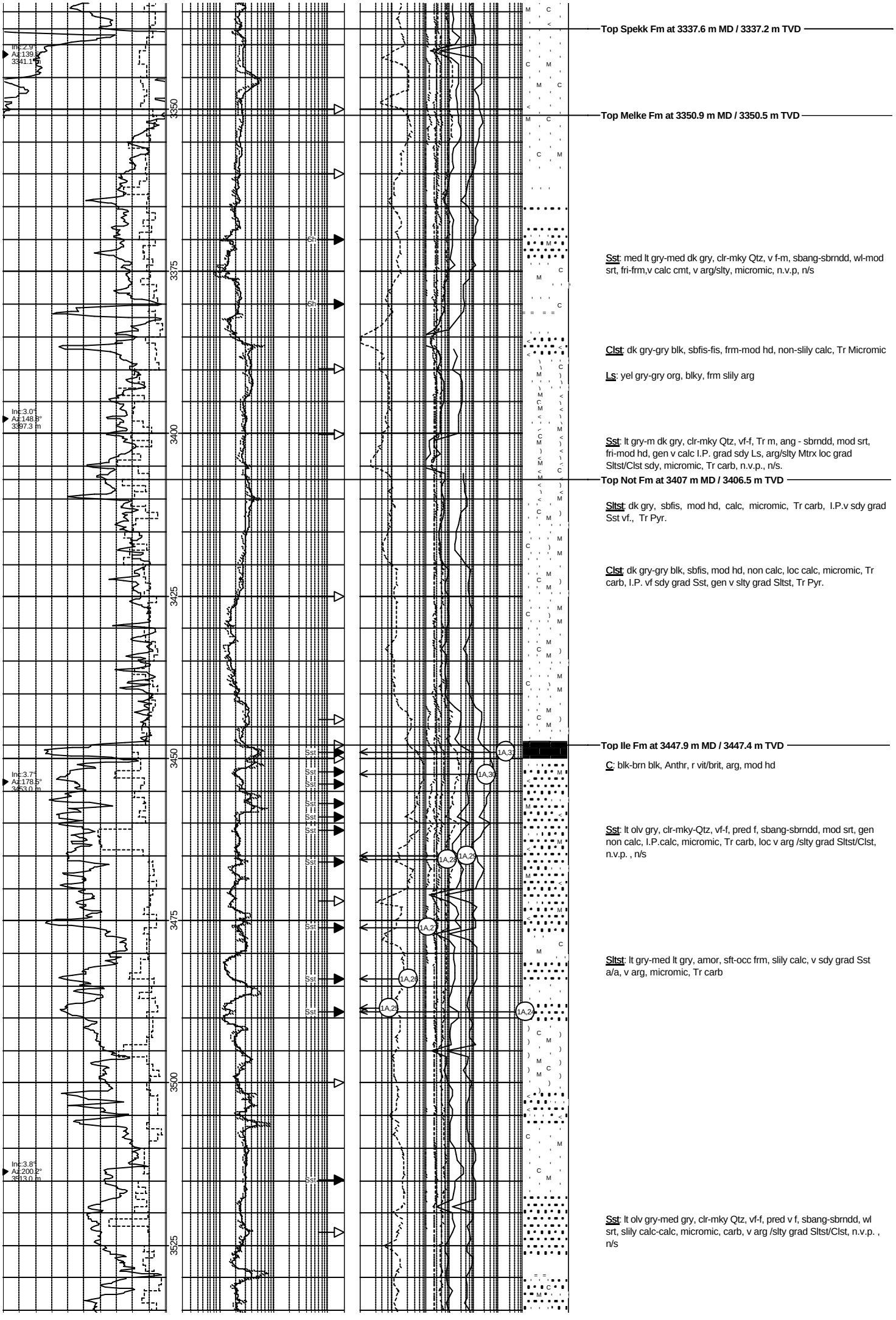
Clst(1): dk gry-olv blk,mod hd,sbfis-fis,gen non calc,micromic,slty,Tr carb.

Sst: m lt gry,clr-mky Qtz,vf-f,r m,sbang-sbrndd,pr-mod srt,fri-mod hd,gen Dol cmt,occ calc cmt,gen var arg/slty Mtrx,Tr carbn.v.p.Shows:Sptd bri wh dir Fluor,slo-mod strmg wh Fluor cut,no vis cut,wk wh Fluor Res,no vis Res.

Sst: m gry-med dk gry, clr-mky Qtz, v f-m, Tr crs, ang-sbrndd, mod srt, fri-frm, calc-v calc cmt, pred arg/slty grad Clst/Sltst, micromic, Tr carb.n.v.p.n/s

Ls: v lt gry-v pl org,, occ wh, microxln, fri-mod hd, gen arg.

Sltst: med dk gry-dk gry, sbfis, frm, v calc grad Mrl, v sdy grad Sst, micromic. Tr carb



Sst: med lt gry-med dk gry, clr-mky Qtz, v f-m, sbang-sbrndd, wl-mod srt, fri-frm,v calc cmt, v arg/slty, micromic, n.v.p, n/s

Clst: dk gry-gry blk, sbfis-fis, frm-mod hd, non-slily calc, Tr Micromic

Ls: yel gry-gry org, blky, frm slily arg

Sst: lt gry-m dk gry, clr-mky Qtz, vf-f, Tr m, ang - sbrndd, mod srt, fri-mod hd, gen v calc I.P. grad sdy Ls, arg/slty Mtrx loc grad Sltst/Clst sdy, micromic, Tr carb, n.v.p., n/s.

Sltst: dk gry, sbfis, mod hd, calc, micromic, Tr carb, I.P.v sdy grad Sst vf., Tr Pyr.

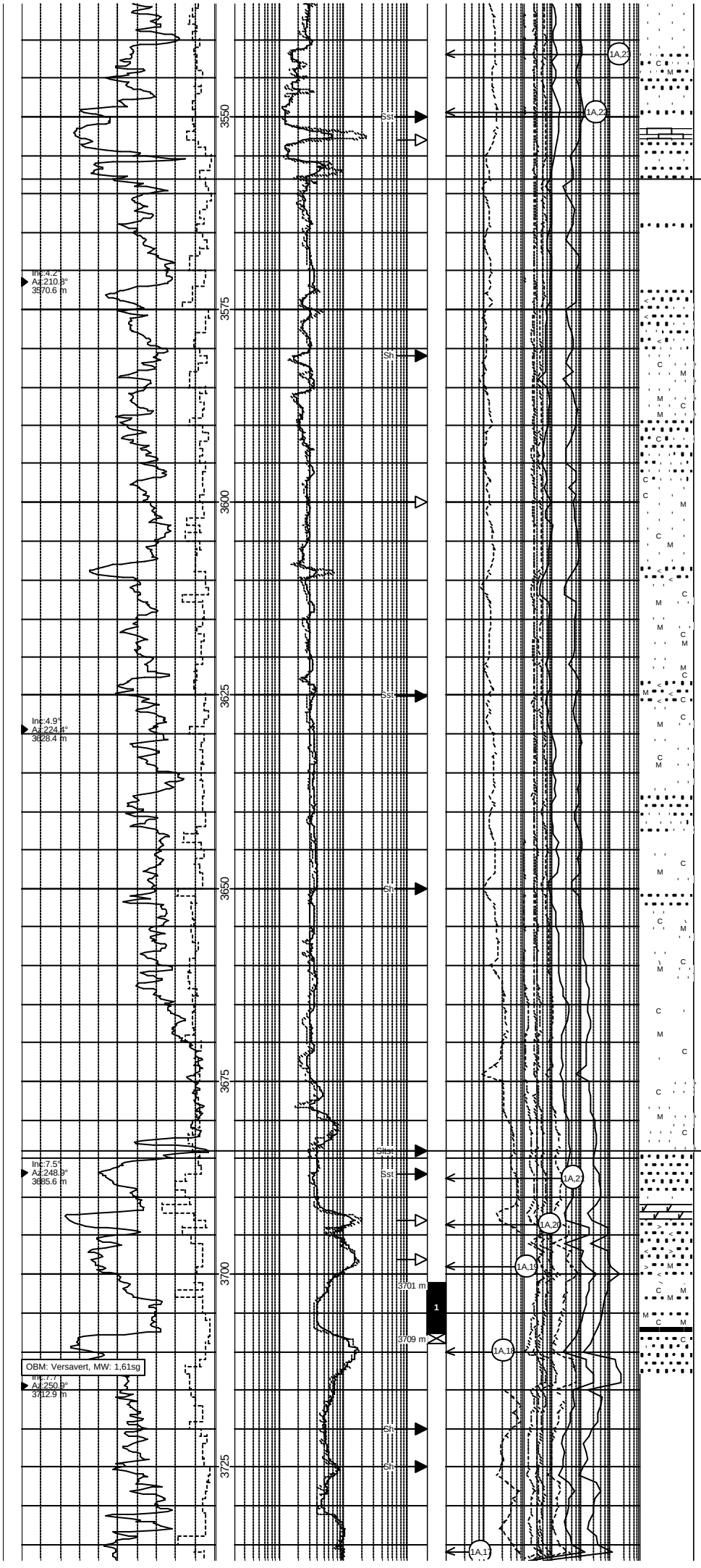
Clst: dk gry-gry blk, sbfis, mod hd, non calc, loc calc, micromic, Tr carb, I.P. vf sdy grad Sst, gen v slty grad Sltst, Tr Pyr.

C: blk-brn blk, Anthr, r vit/brit, arg, mod hd

Sst: lt olv gry, clr-mky-Qtz, vf-f, pred f, sbang-sbrndd, mod srt, gen non calc, I.P.calc, micromic, Tr carb, loc v arg /slty grad Sltst/Clst, n.v.p. , n/s

Sltst: lt gry-med lt gry, amor, sft-occ frm, slily calc, v sdy grad Sst a/a, v arg, micromic, Tr carb

Sst: lt olv gry-med gry, clr-mky Qtz, vf-f, pred v f, sbang-sbrndd, wl srt, slily calc-calc, micromic, carb, v arg /slty grad Sltst/Clst, n.v.p. , n/s



Top Ror Fm at 3558 m MD / 3557.2 m TVD

Top Tilje Fm at 3684 m MD / 3682.7 m TVD

Ls: v lt gry-yel gry, sft, pred slily arg, occ microxln

Clst: med gry-med dk gry, sbfis-fis, frm, slily calc, slty

Sst: med lt gry-med gry, clr-mky Qtz, v f-f, pred v f, sbang-sbrndd, wl srt, fri.sft, calc-v calc, arg, micromic Tr Carb, n.v.p, n/s

Clst: dk gry-gry blk, fis, splin, mod hd-hd, micromic, non calc

Sst: lt gry-lt olv gry,clr-mky Qtz,vf-f,Tr m,sbang-sbrndd,mod srt,fri-mod hd,gen calc cmt,occ sl sil cmt,micromic,I.P. v slty grad Sltst,n.v.p.,n/s.

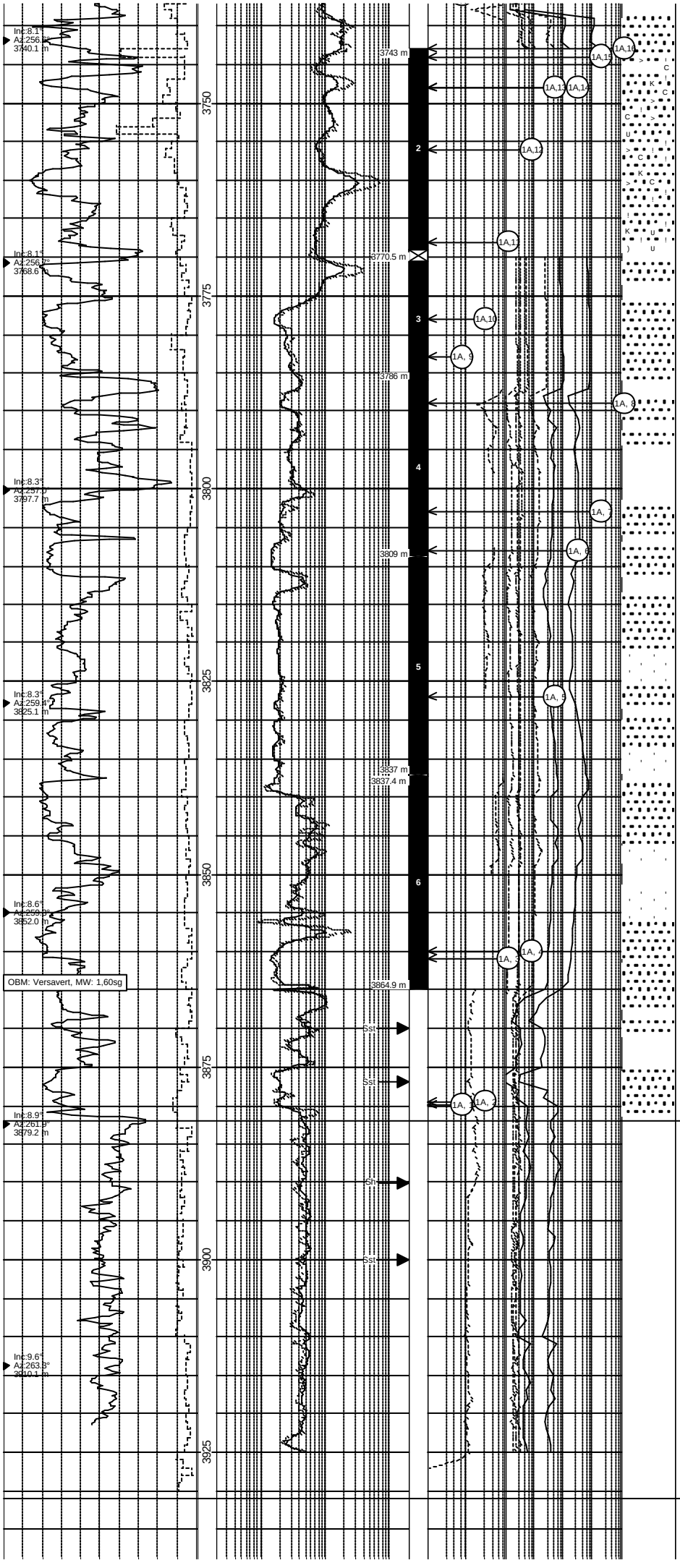
Clst: gen gry-blk-olv blk,mnr olv gry-m dk gry,mod hd,sbfis-fis,sl calc,r dol cmt,micromic gen slty loc grad Sltst,loc vf sdy grad Sst.

Clst: olv blk,mod hd,sbfis-fis,non calc,micromic,Tr carb,slty,r Tr vf sdy.

Sst: lt brn gry-.lt olv gry, clr-mky Qtz, gen f, sbang-sbrndd, mod srt, fri-mod hd, var dol cmt, Tr micromic, Tr carb, var slty, n.v.p.

Sst: lt gry, clr-mky Qtz, f, sbang-sbrndd, mod srt, mod hd, calc cmt, Tr carb, Tr micromic, n.v.p.

Clst: olv blk-gry blk, hd-v hd, fis, dol cmt, micromic, mic, carb, slty, w/Sst lens; lt brn, gry, clr-mky Qtz, vf-f, gen f, sbang-sbrndd, mod srt, hd, dol/sil cmt, micromic, Tr carb, n.v.p.



Sst: pl yel brn-dk yel brn, clr-trsl Qtz, pl yel brn Qtz, vf-f, occ m, sbang-ang, mod srt, v hd-hd, dol/sil cmt, l.P.calc cmt, loc Mic, gen Sst Rpl w/Sh drapes: m dk gry-dk gry, brn blk, hd, non calc, slty, Mic, carb.

Sst: v lt gry-pk gry, pl yel brn, clr-trsl Qtz, gen f-m, Tr crs, hd, gen sil cmt, also dol and calc cmt, r Kao Mtrx, r Mic, r carb, n.v.p.

Sst: lt gry-pk gry, clr-mky Qtz, vf-f, occ m, r crs,

Sst w/Sh: v lt gry-pk gry-pl yel or-dk yel brn, clr-mky Qtz, vf-m, ang-sbrndd, mod srt, hd, gen sil cmt, loc calc cmt, Tr Mic, Tr carb, n.v.p., loc Sh lam: m dk gry-dk gry, mod hd, slty, gen non calc, Mic, carb, r Pyr Nod.

Sst: pl yel brn-dk yel brn, loc lt gry, clr-trsl Qtz, pl yel brn Qtz, f-m, loc vf, mod srt-wl srt, sbang-ang, hd, calc cmt, loc sil cmt, loc Kao Mtrx, Tr Mic, R-Tr carb, loc Sh lam: m dk gry-dk gry, mod hd, non calc, slty, abd Mic, carb.

Sst: lt gry-m lt gry, occ lt olv gry, loc pl yel brn, clr-trsl Qtz, occ mky Qtz, f-m, loc crs, loc vf, mod srt, sbrndd-sbang, gen calc cmt, loc sil cmt, Mic, Tr carb, bcm Tr Pyr Nod.

Sst: wh-v lt gry,lt olv gry,clr-mky Qtz,f-m,bcm f-crs,sbang-sbrndd,calc cmt,mod srt bcm pr srt,loc Pyr Nod,r carb,bcm sl arg

Clst: dk gry-gry blk,frm-mod hd,sbblky,slty,non calc,micromic,micropyr

Top Åre Fm at 3882 m MD / 3878.7 m TVD

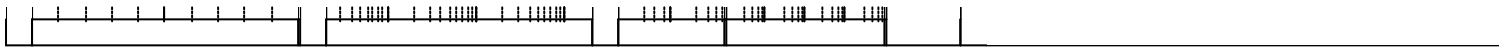
Sst: lt gry,pl yel brn-yel brn,f-crs,bcm pred vf-f,ang-sbrndd,pr srt,frm,calc cmt,loc arg

Clst: dsky yel brn-brn blk,bcm lt olv gry,mod hd,sbblky,non calc,slty,l.P.vf sdy,micromic,carb,micropyr,l.P.grd Coaly sh

Sltst: pl yel brn-dk yel brn,frm-mod hd,non-sl calc,r micromic

Sst: pl yel brn-yel brn,clr-mky Qtz,vf-f,r m,r crs,ang-sbrndd,pr-mod srt,frm,calc cmt,arg

Clst: olv gry,dk yel brn,frm,v slty grd Sltst,l.P.vf sdy,non calc,mic,r micropyr,v carb,Tr C;blk,brit

Ls: wh,frm,microxln,r Mic

TD at 3931 m MD / 3927 m TVD