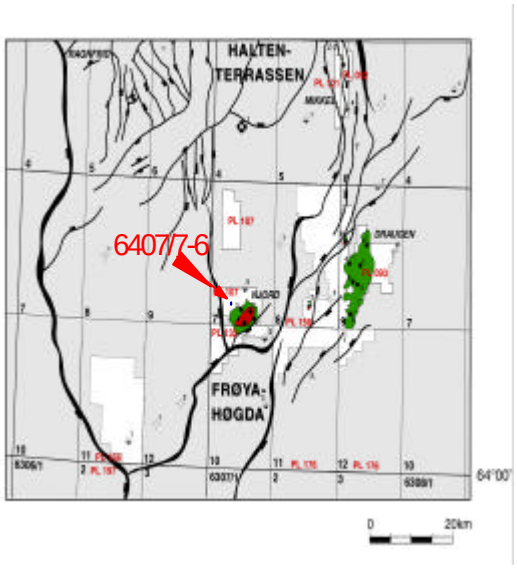
COMPOSITE LOG

NJORD FIELD, B-segment

Scale: 1:500

Well: 6407/7-6

Location Map



KB Elevation	26m	**Country**	Norway
Water Depth	336m	**Licence**	PL 107
Depth Reference	RKB		
		Owners	Norsk Hydro, Statoil, ExxonMobil, PetroCanada
Total Depth (Driller)	3931.0 3927.0		
Total Depth (Logger)	N.A N.A		
		Field	Njord
Formation at Total Depth	Åre Formation	**Drilling rig**	Scarabeo 6
Date Spudded	October 18, 2000		
Date Reached TD	November 16, 2000	**Drilling Contractor**	Saipem
Date Completed	December 17, 2000	**Mudlogging Company**	Halliburton Sperry-Sun
Well Status	Plugged and abandoned as an Oil discovery	**Logging Company**	Schlumberger Wireline
		MWD Company	Schlumberger Anadrill
Well Classification	Exploration	**Geologists**	M.Eien, K.Kalgraff, E.Skottlien, Å.Halvorsen
Prepared by	K.Kalgraff, B.Schønningsen		
Controlled by	F.Johansen		
Date	June 2001		

Well Coordinates			
Revised Spud UTM (re-spud)	7 131 390.0m N	408 270.3m E	
Revised Spud Geographical	64° 17' 40.66" N	07° 06' 16.21" E	
	ED 50 - UTM 32	CM 9°E	

Casing Records

Diameter	Shoe depth m MD RKB	Shoe depth m TVD RKB
30" Casing shoe	446.5	446.5
20" Casing shoe	1224	1223.9
9 5/8" Casing shoe	3094	3093.8

LOT / FIT

Type	Result sg	Depth m MD RKB	Depth m TVD RKB
LOT	1.80	1224.0	1223.9
FIT	1.76	3094.0	3093.8

Comments

MWD logs in 36" and 26" sections affected by hole size.
The well was drilled from 3930m MD to 3975m MD (3970m TVD) to provide sufficient rathole for perforation guns.
The drilling was done without MWD.
The well was tested.

Logs

Run no.	Log type	Logged interval
1A	AIT-IPLT(LDS-APS-HNGS)	3930.4 - 3092.8
1A	UBI-DSI	3925 - 2900
1A	MDT	3880 - 3187.5
1A	CMR-ESC-VSP	3913 - 2900
1A	CMR plus	3881.5 - 3440
1A	CST	3900 - 3125

Cores

Core no.	Cored interval m MD RKB		Recovered interval m MD RKB		Rec. mMD	Rec. %
1	3701.0	3709.0	3701.0	3707.6	6.6	82.5
2	3743.0	3770.5	3743.0	3769.1	26.1	94.8
3	3770.5	3786.0	3770.5	3785.7	15.2	97.7
4	3786.0	3809.0	3786.0	3808.7	22.7	98.7
5	3809.0	3837.0	3809.0	3837.3	28.3	101.2
6	3837.4	3864.9	3837.4	3864.9	27.4	101.7

Pressure points (MDT)

Test no.	Depth m MD RKB	Depth m TVD RKB	Fmn. Press. bars	Test no.	Depth m MD RKB	Depth m TVD RKB	Fmn. Press. bars
1A, 1	3880.0	3876.0	0.00	1A,36	3242.5	3241.7	299.04
1A, 2	3879.5	3876.2	463.00	1A,37	3228.0	3226.0	483.05
1A, 3	3861.0	3857.0	456.15	1A,38	3215.0	3213.7	0.00
1A, 4	3860.0	3857.0	401.15	1A,39	3215.0	3213.7	318.13
1A, 5	3827.0	3823.3	381.20	1A,40	3213.0	3211.7	309.05
1A, 6	3808.0	3804.5	337.73	1A,41	3187.5	3186.8	291.59
1A, 7	3803.0	3799.6	413.49				
1A, 8	3789.0	3785.7	473.02				
1A, 9	3783.0	3779.8	322.49				
1A,10	3778.0	3774.8	569.00				
1A,11	3768.0	3764.9	559.73				
1A,12	3756.0	3753.1	525.09				
1A,13	3748.0	3745.1	561.13				
1A,14	3748.0	3745.1	560.94				
1A,15	3744.0	3741.2	561.82				
1A,16	3743.0	3740.9	484.22				
1A,17	3736.0	3733.3	251.02				
1A,18	3710.0	3707.5	559.48				
1A,19	3699.0	3696.6	559.13				
1A,20	3693.5	3691.6	559.25				
1A,21	3687.5	3685.7	257.65				
1A,22	3549.5	3548.3	529.62				
1A,23	3542.0	3540.3	275.19				
1A,24	3489.0	3487.4	524.38				
1A,25	3488.5	3487.2	524.05				
1A,26	3484.0	3482.4	494.68				
1A,27	3476.0	3474.4	522.17				
1A,28	3465.5	3464.5	523.07				
1A,29	3465.0	3464.3	523.78				
1A,30	3452.5	3451.5	261.99				
1A,31	3449.0	3447.5	519.49				
1A,32	3320.0	3318.7	257.22				
1A,33	3302.0	3301.2	270.98				
1A,34	3259.0	3257.7	270.61				
1A,35	3252.0	3250.7	289.93				

Lithology Legend

CONGLOMERATE, LIMESTONE, ANHYDRITE
SAND/SANDSTONE, DOLOMITE, SALT
SILT/SILTSTONE, DOL. LIMESTONE, GYPSUM
CLAY/CLAYSTONE, CALC. DOLOMITE, TUFF
SHALE, CHALK, INTR. IGNEOUS

) SANDY, VERY
(SANDY
. SANDY, SLIGHTLY
' ' ' SILTY, VERY
' ' SILTY
' SILTY, SLIGHTLY
! ARGILLACEOUS
< CALCAREOUS

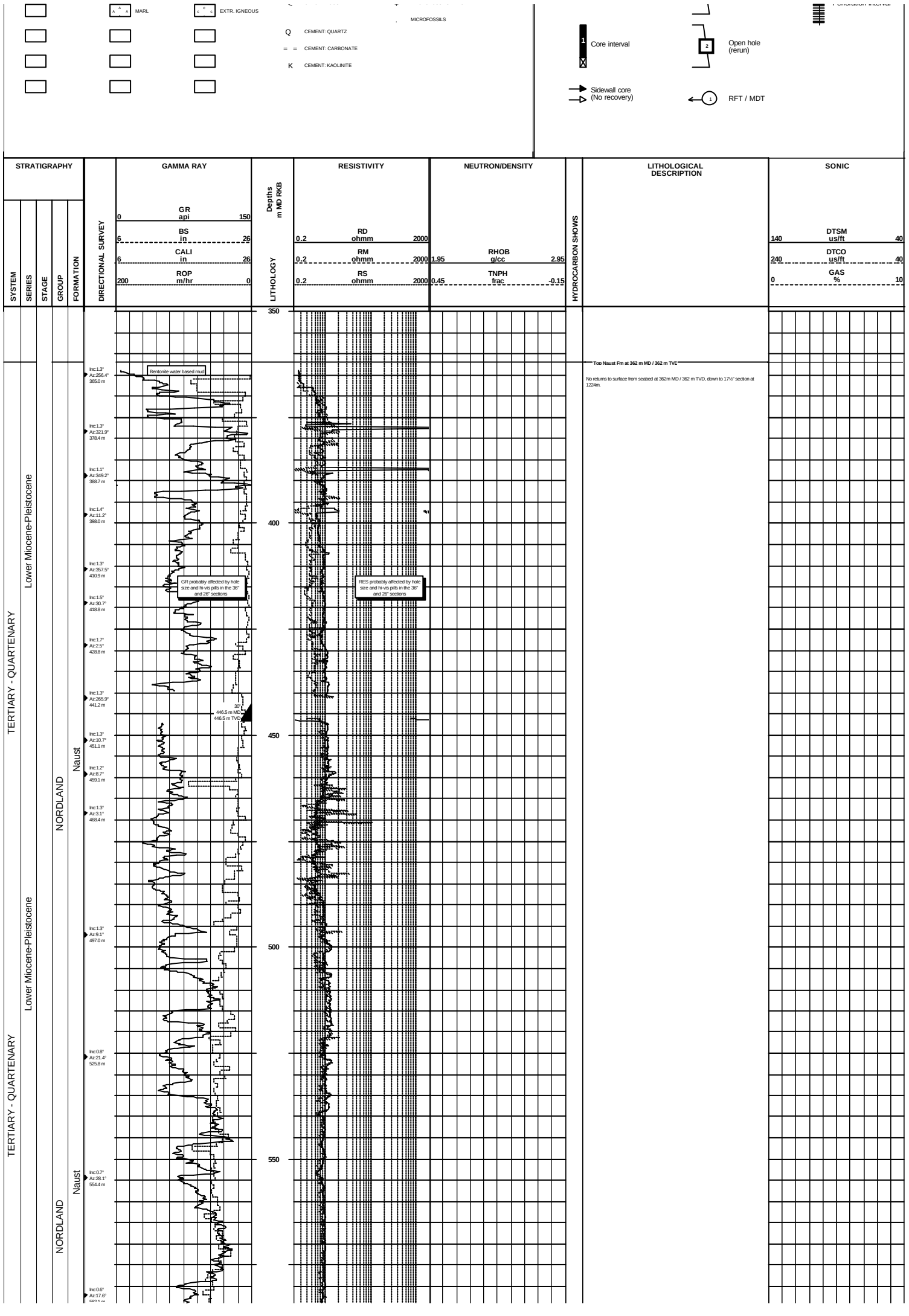
C CARBONACEOUS MAT.
Q CHERT
u GLAUCONITE
M MICA
U PYRITE
* MACROFOSSILS
+ MACROFOSSILS FRAG

Symbol legend

Casing shoe
Liner hanger
Liner shoe
Deviation survey - MWD
Deviation survey - Other

DST
Through casing
Open hole
Through casing (rerun)

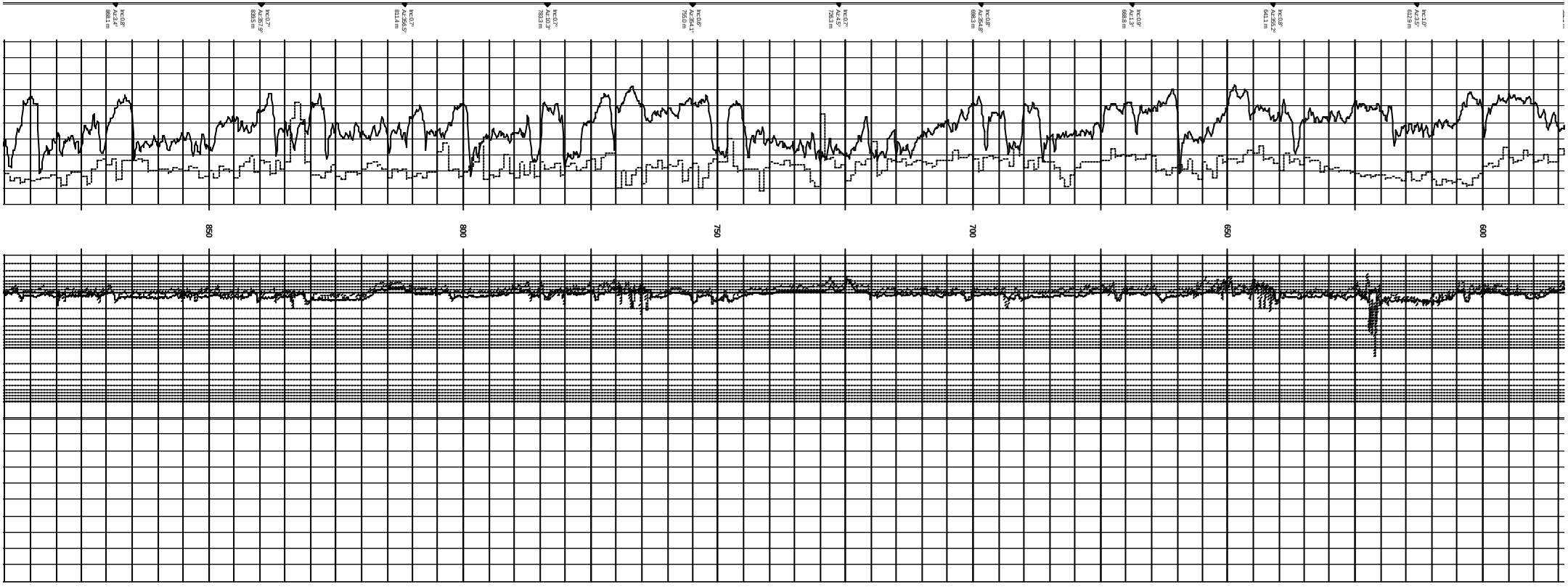
W Oil stain
X Fluorescence
u Visible cut
V Fluorescence cut
Z Gas shows
Perforation interval


MARL
EXTR. IGNEOUS
MICROFOSSILS
Q CEMENT: QUARTZ
= = CEMENT: CARBONATE
K CEMENT: KAOLINITE
Core interval
Open hole (rerun)
Sidewall core (No recovery)
RFT / MDT
STRATIGRAPHY
SYSTEM
SERIES
STAGE
GROUP
FORMATION
DIRECTIONAL SURVEY
GAMMA RAY
GR api 0 150
BS in 6 26
CALI in 6 26
ROP m/hr 200 0
Depths m MD RKB
LITHOLOGY
RESISTIVITY
RD ohmm 0.2 2000
RM ohmm 0.2 2000
RS ohmm 0.2 2000
NEUTRON/DENSITY
RHOB g/cc 1.95 2.95
TNPH frac 0.45 -0.15
HYDROCARBON SHOWS
LITHOLOGICAL DESCRIPTION
SONIC
DTSM us/ft 140 40
DTCO us/ft 240 40
GAS % 0 10
TERTIARY - QUARTENARY
Lower Miocene-Pleistocene
NORDLAND
Naust
Bentonite water based mud
Inc:1.3° Az:256.4° 365.0 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° 418.8 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
Inc:0.8° Az:21.4° 525.8 m
Inc:0.7° Az:28.1° 554.4 m
Inc:0.6° Az:17.6°
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.
350
400
450
500
550

TERTIARY - QUARTENARY	TERTIARY - QUARTENARY	TERTIARY - QUARTENARY
ene	Lower Miocene-Pleistocene	Lower Miocene-Pleistocene	Lower Miocene-Pleistocene

NORDLAND | NORDLAND | NORDLAND

Naust | Naust | Naust

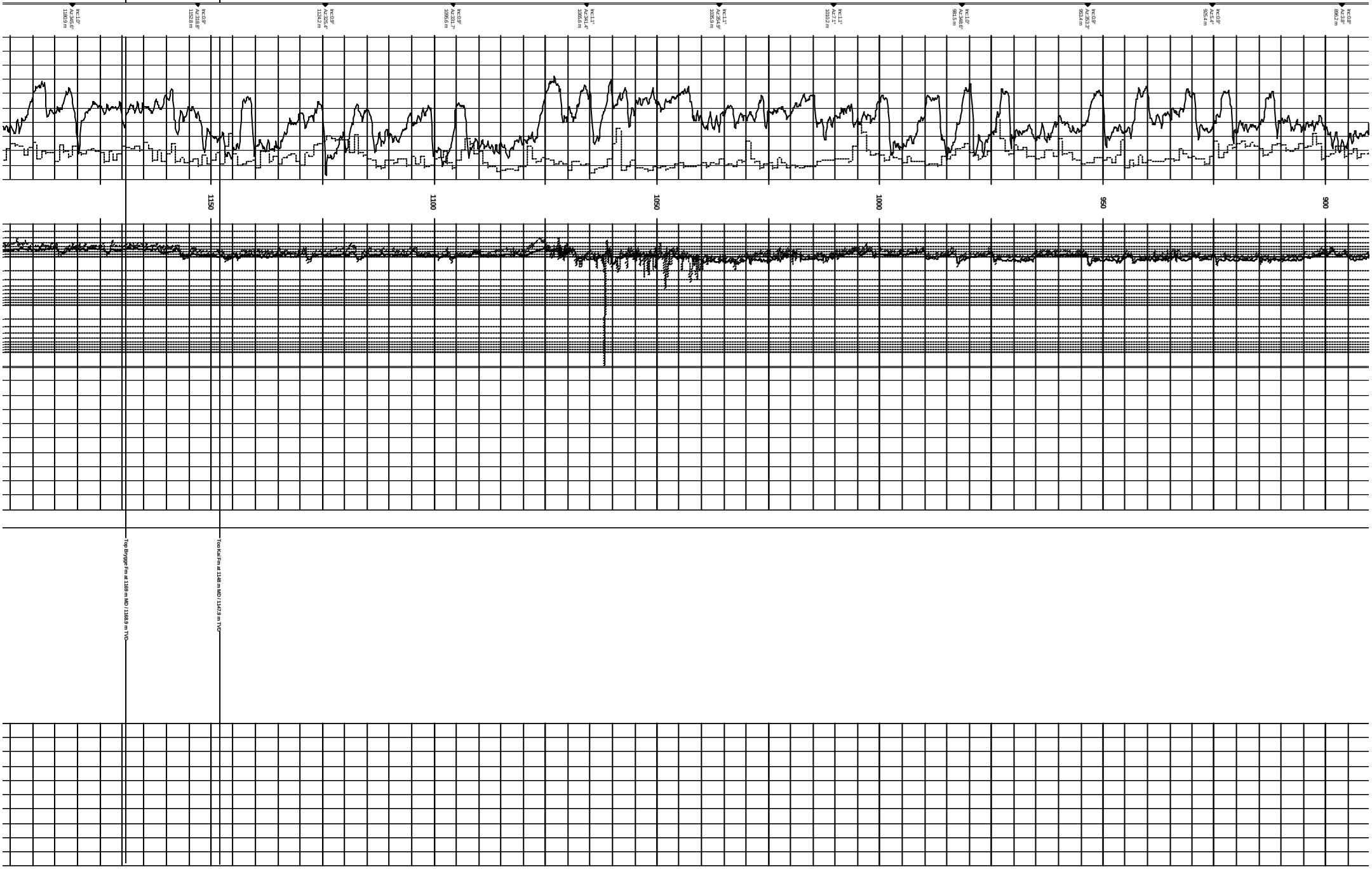


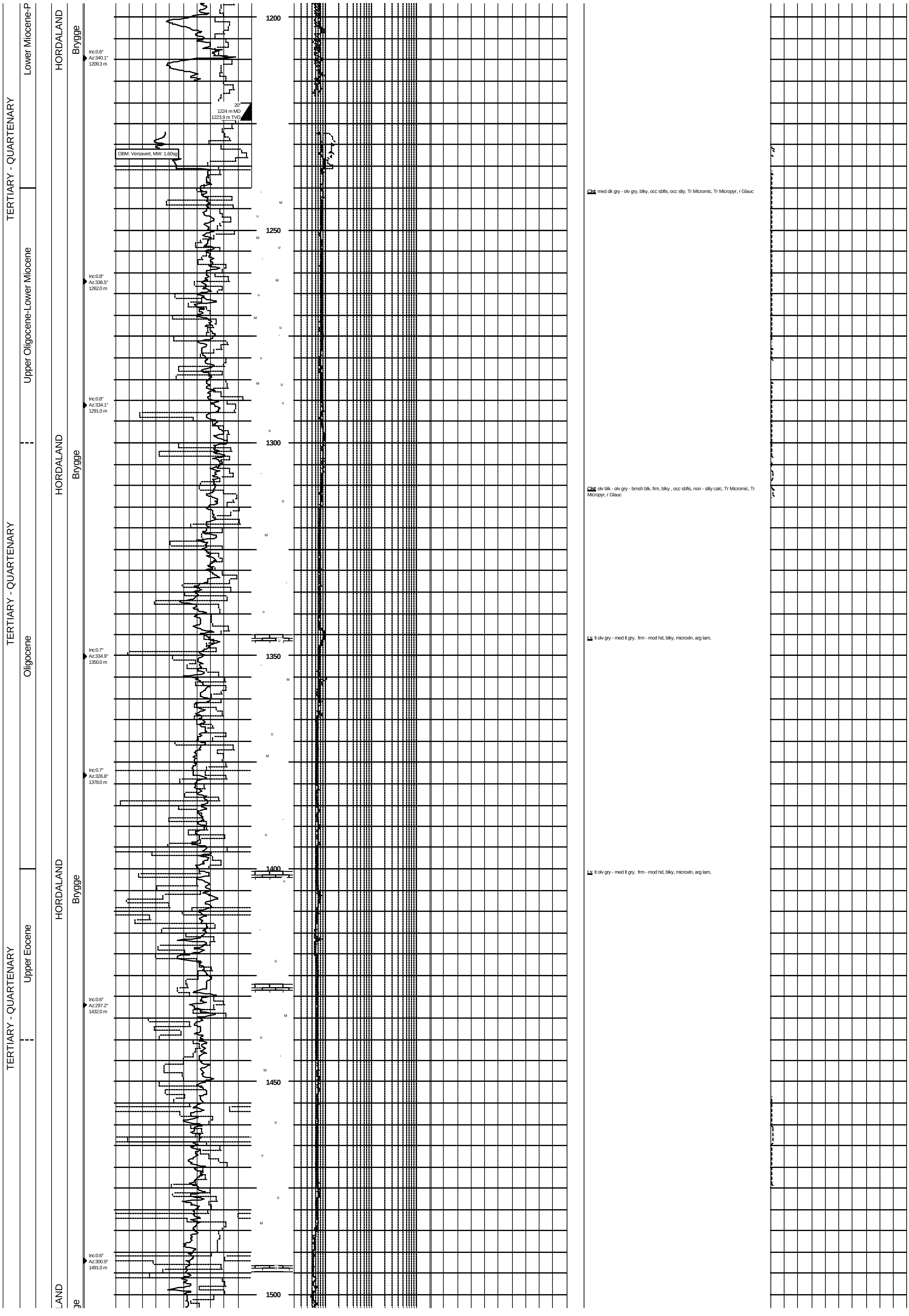
TERTIARY - QUARTENARY | TERTIARY - QUARTENARY | TERTIARY - QUARTENARY

leistocene | Lower Miocene-Pleistocene | Lower Miocene-Pleistocene | Lower Miocene-Pleistoce

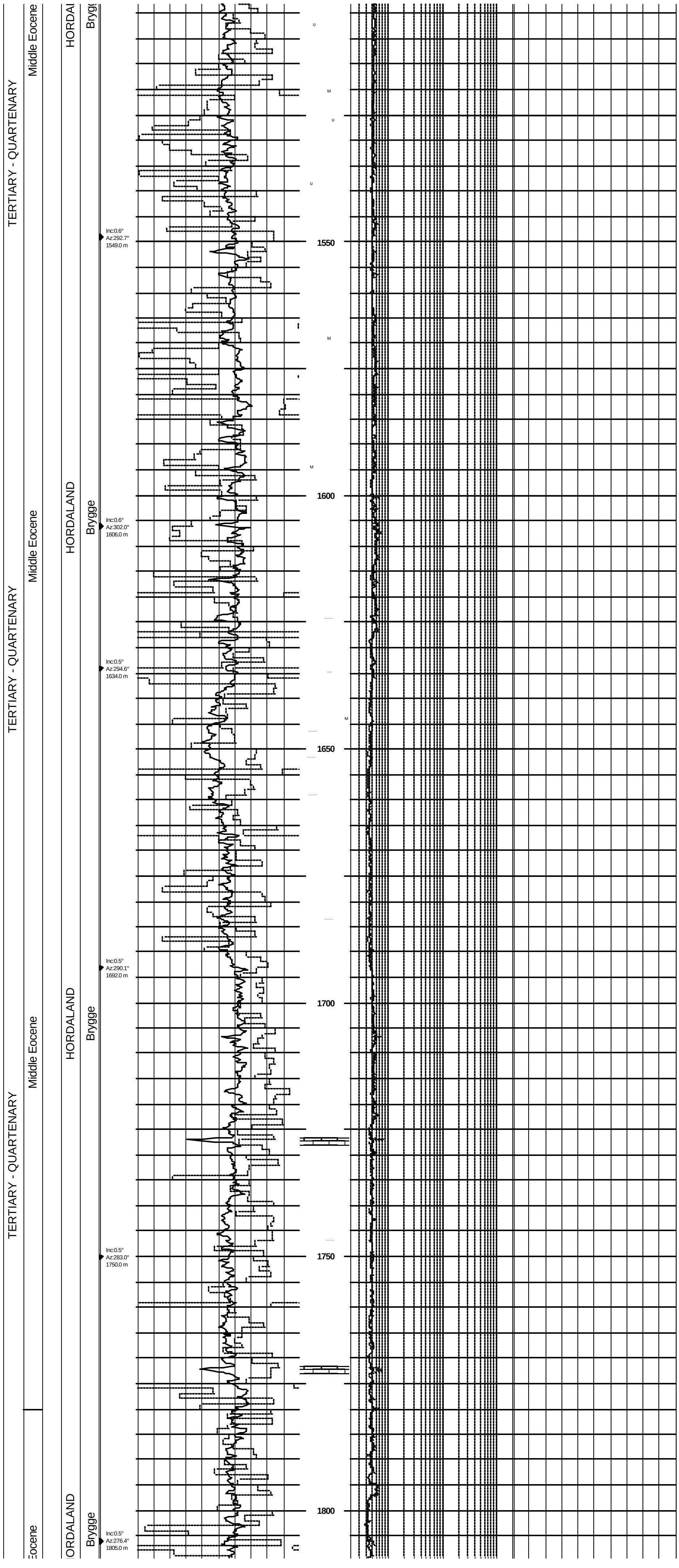
NORDLAND | NORDLAND

Kai | Naust | Naust





Lower Miocene-P
TERTIARY - QUARTENARY
HORDALAND
Brygge
Upper Oligocene-Lower Miocene
Oligocene
TERTIARY - QUARTENARY
HORDALAND
Brygge
Upper Eocene
TERTIARY - QUARTENARY
HORDALAND
Brygge
Inc:0.6° Az:340.1° 1209.3 m
Inc:0.8° Az:336.5° 1262.0 m
Inc:0.8° Az:334.1° 1291.0 m
Inc:0.7° Az:334.9° 1350.0 m
Inc:0.7° Az:326.8° 1378.0 m
Inc:0.6° Az:297.2° 1432.0 m
Inc:0.6° Az:300.9° 1491.0 m
20" 1224 m MD 1223.9 m TVD
OBM: Versavert, MW: 1,60sg
1200
1250
1300
1350
1400
1450
1500
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, I.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

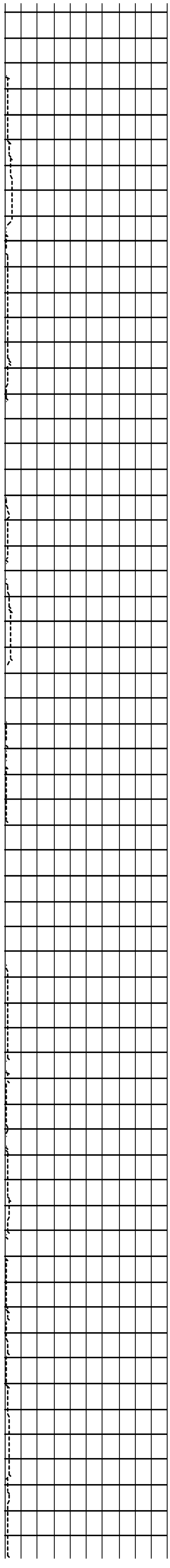
Sst: clr-wh, clr trnsl qtz, f-med, pred med, w rnd, w srt, sft-frm, slily calc cmt, no vis por

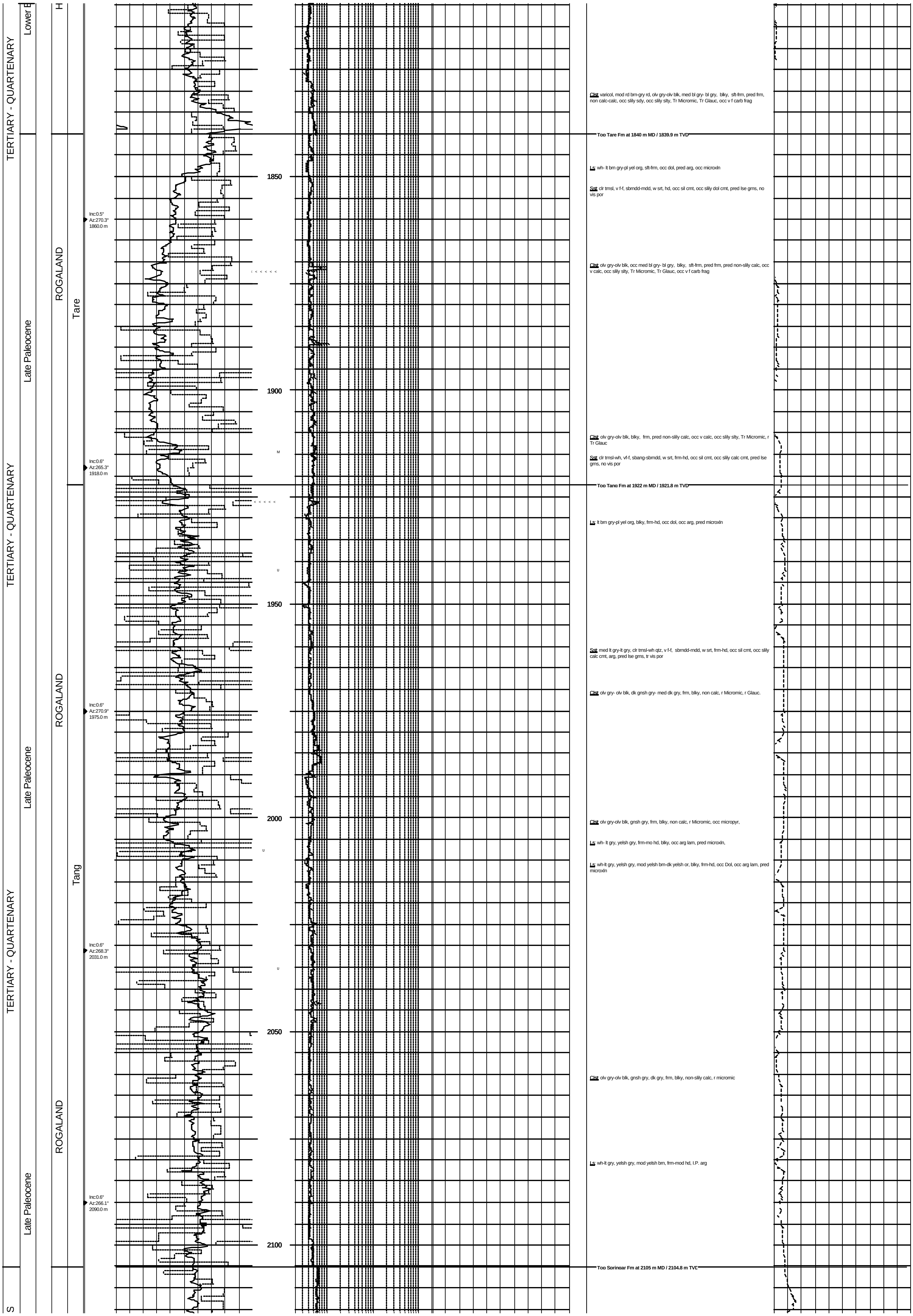
Clst: olv gry-med bl gry, blky, frm, non calc, slily slty, Tr Micromic, v f carb frag

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

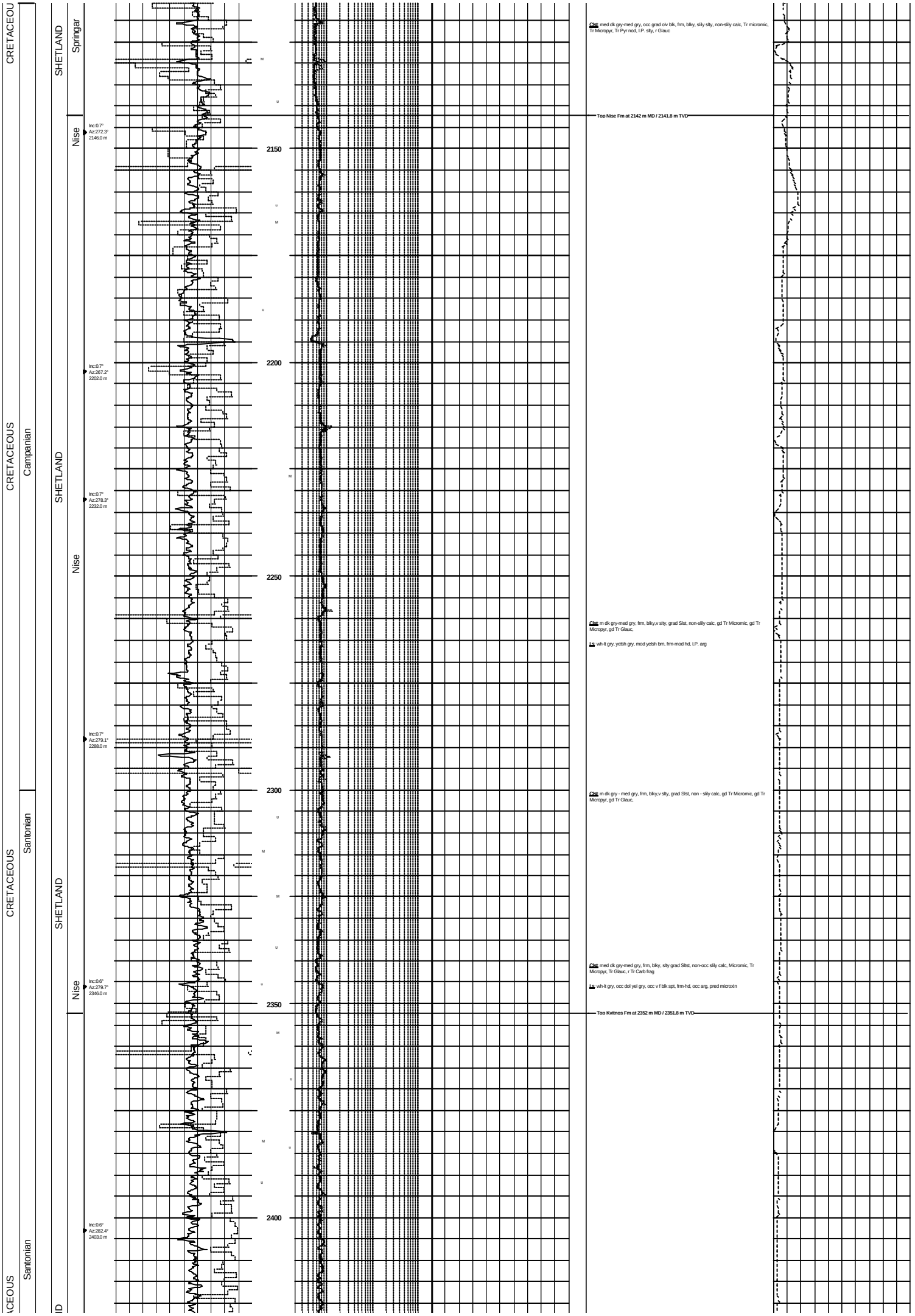
Sst: clr trnsl, f-med, pred med, sbang-ang, hd, v wl sil cmt, occ slily dol cmt, pred lse grns, no vis por

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





TERTIARY - QUARTENARY
Lower E
H
Late Paleocene
ROGALAND
Tare
Tang
S
Inc:0.5°
Az:270.3°
1860.0 m
Inc:0.6°
Az:265.3°
1918.0 m
Inc:0.6°
Az:270.9°
1975.0 m
Inc:0.6°
Az:268.3°
2031.0 m
Inc:0.6°
Az:266.1°
2090.0 m
1850
1900
1950
2000
2050
2100
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, I.P. arg
Top Springar Fm at 2105 m MD / 2104.8 m TVD

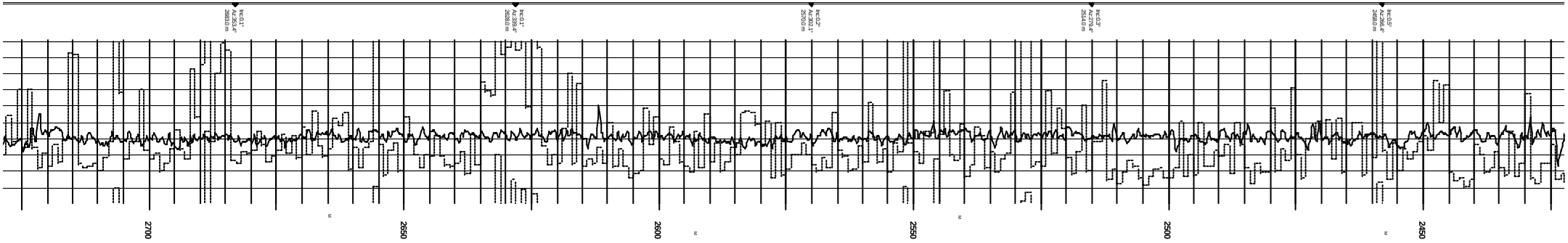

CRETACEOUS
Campanian
Santonian
SHETLAND
Springar
Nise
Clst: med dk gry-med gry, occ grad olv blk, frm, blky, slty sity, non-slily calc, Tr micromic, Tr Micropyr, Tr Pyr nod, l.P. slty, r Glauc
Top Nise Fm at 2142 m MD / 2141.8 m TVD
Inc:0.7°
Az:272.3°
2146.0 m
2150
Inc:0.7°
Az:267.2°
2202.0 m
2200
Inc:0.7°
Az:278.3°
2232.0 m
2250
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, l.P. arg
Inc:0.7°
Az:279.1°
2288.0 m
2300
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 Slst, 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
Inc:0.6°
Az:279.7°
2346.0 m
2350
Too Kvitnos Fm at 2352 m MD / 2351.8 m TVD
Inc:0.6°
Az:282.4°
2403.0 m
2400

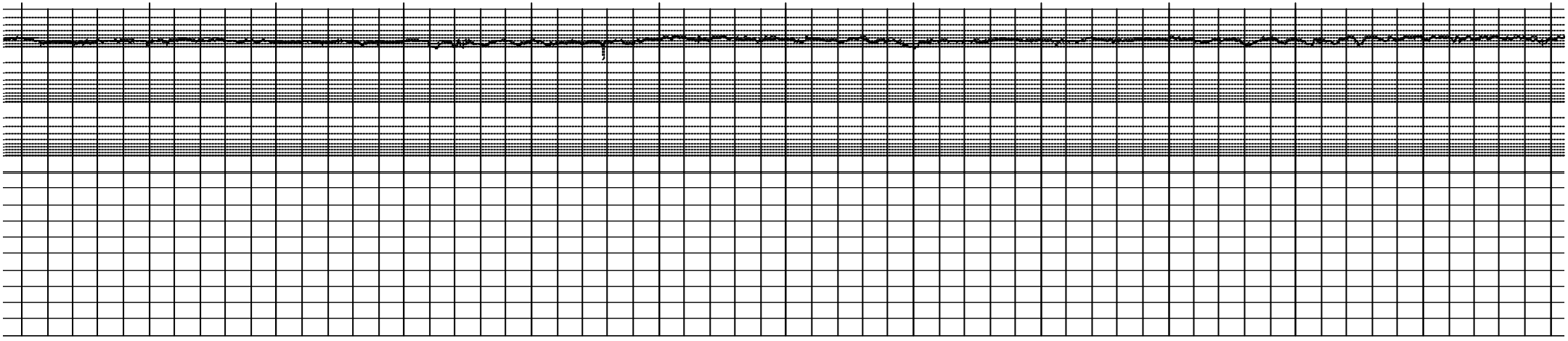
CRETACEOUS | CRETACEOUS | CRETACEOUS | CRETA

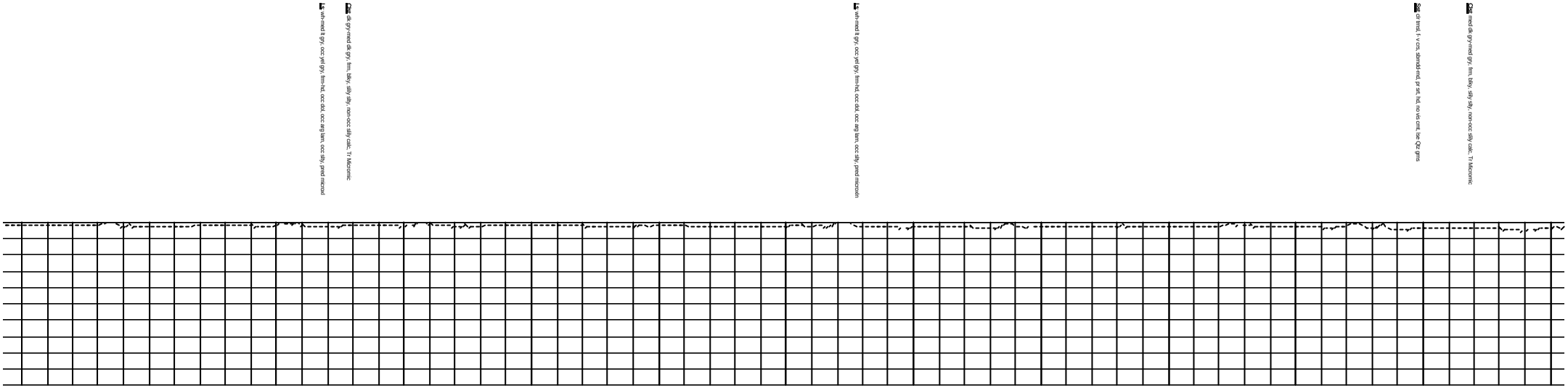
er Turonian-Coniacian | Coniacian-Lower Santonian | Santonian

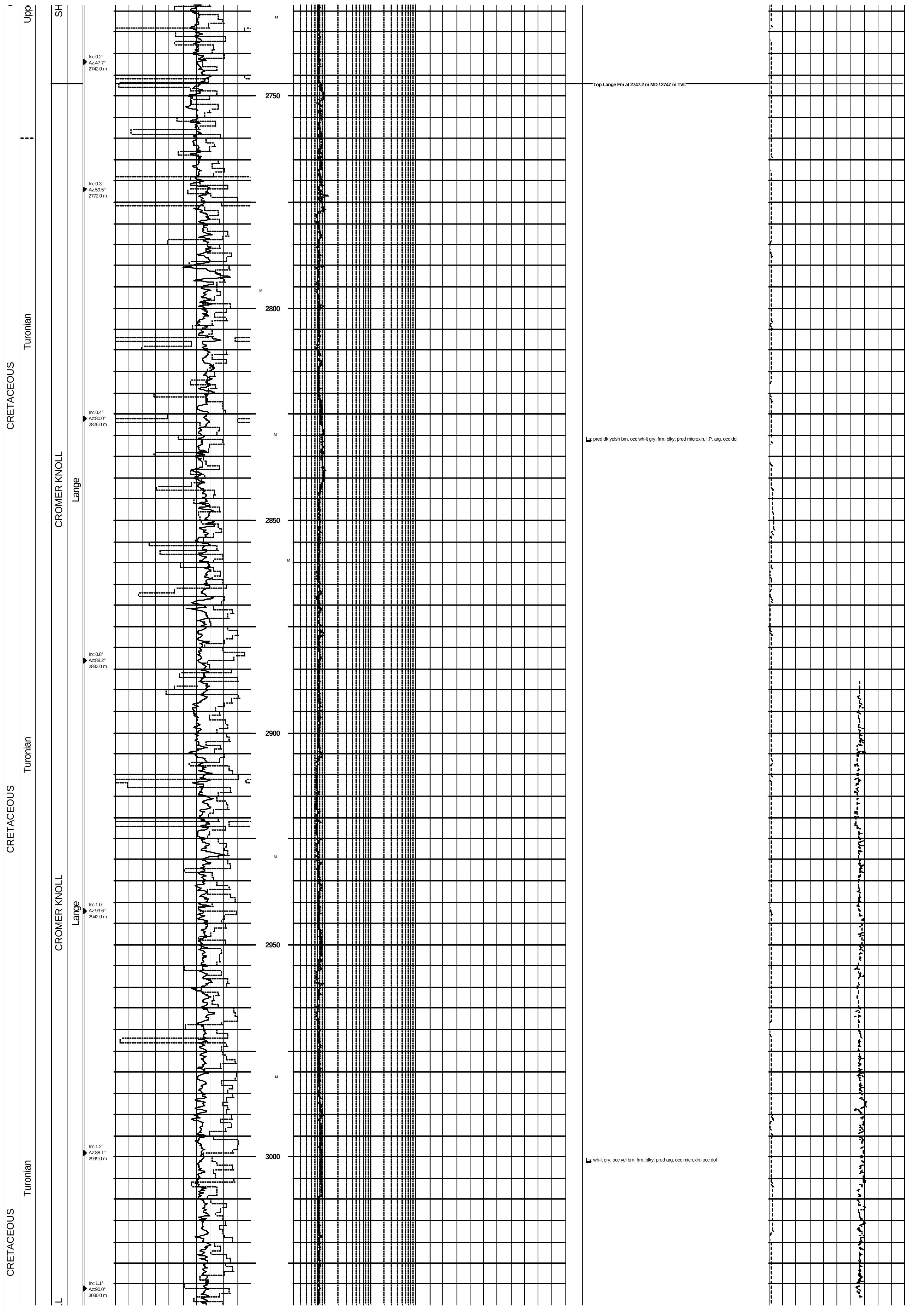
IETLAND | SHETLAND | SHETLAND | SHETLAN

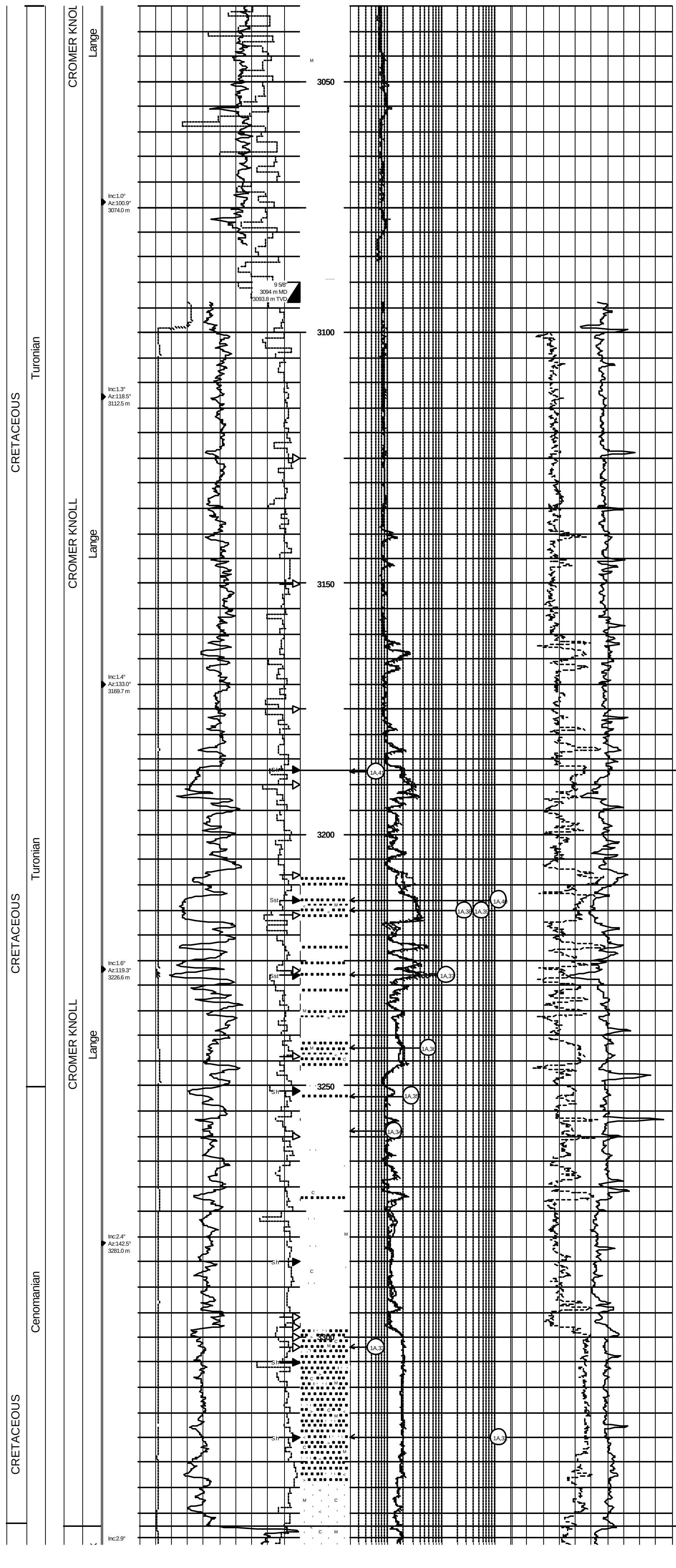
Kvitnos | Kvitnos | Kvitnos








CRETACEOUS
Upp
Turonian
SH
CROMER KNOLL
Lange
Inc:0.2° Az:47.7° 2742.0 m
Inc:0.3° Az:59.5° 2772.0 m
Inc:0.4° Az:80.0° 2826.0 m
Inc:0.8° Az:88.2° 2883.0 m
Inc:1.0° Az:93.6° 2942.0 m
Inc:1.2° Az:88.1° 2999.0 m
Inc:1.1° Az:90.0° 3030.0 m
2750
2800
2850
2900
2950
3000
M
Top Lange Fm at 2747.2 m MD / 2747 m TVD
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.

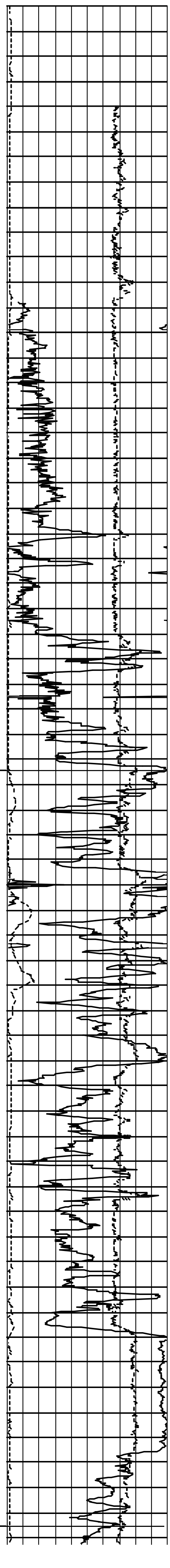
Sst: m lt gry,clr-mky Qtz,vf-f,r m,sbang-sbrndd,pr-mod srt,fri-mod hd,gen Dol cmt,occ calc cmt,gen var arg/slty Mtrx,Tr carbn.v.p.Shows:Sptd bri wh dir Fluor,slo-mod strmg wh Fluor cut,no vis cut,wk wh Fluor Res,no vis Res.

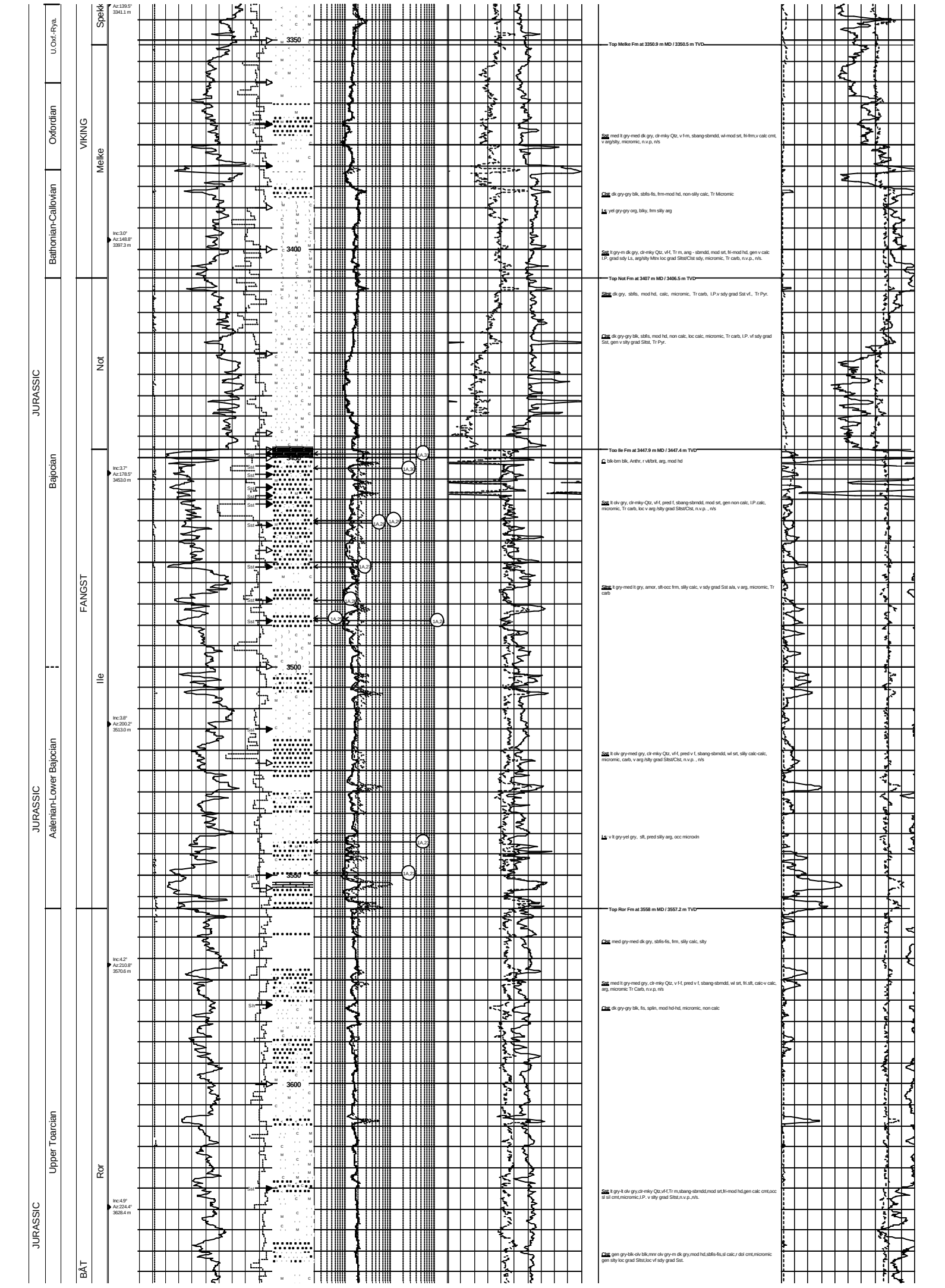
Sst: m gry-med dk gry, clr-mky Qtz, v f-m, Tr crs, ang-sbrndd, mod srt, fri-frm, calc-v calc cmt, pred arg/slty grad Clst/Sltst, micromic, Tr carb.n.v.p.n/s

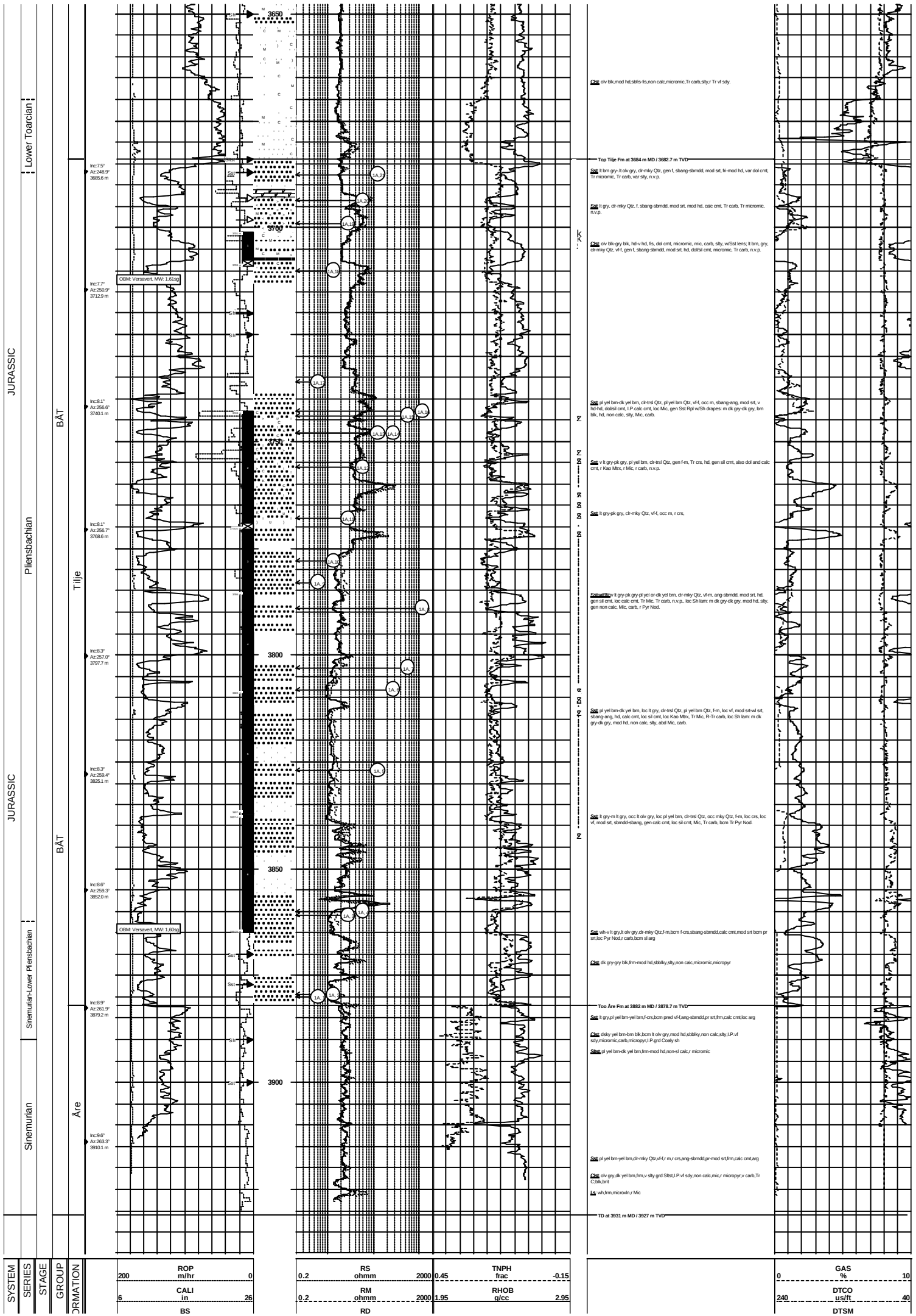
Ls: v lt gry-v pl org,, occ wh, microxln, fri-mod hd, gen arg.

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

Top Spekk Fm at 3337.6 m MD / 3337.2 m TVD




JURASSIC
JURASSIC
JURASSIC
Upper Toarcian
Aalenian-Lower Bajocian
Bajocian
Bathonian-Callovian
Oxfordian
U.Oxf.-Rya.
BÅT
FANGST
VIKING
Ror
Ile
Not
Melke
Spekk
Az:139.5°
3341.1 m
3350
Top Melke Fm at 3350.9 m MD / 3350.5 m TVD
Sst: med lt gry-med dk gry, clr-mky Qtz, v f-m, sbang-sbrndd, wl-mod srt, fri-firm,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
Inc:3.0°
Az:148.8°
3397.3 m
3400
Sst: lt gry-m dk gry, clr-mky Qtz, vf-f, Tr m, ang - sbrndd, mod srt, fri-mod hd, gen v calc l.P. grad sdy Ls, arg/slty Mtrx loc grad Sltst/Clst sdy, micromic, Tr carb, n.v.p., n/s.
Top Not Fm at 3407 m MD / 3406.5 m TVD
Slst: dk gry, sbfis, mod hd, calc, micromic, Tr carb, l.P.v sdy grad Sst vf., Tr Pyr.
Clst: dk gry-gry blk, sbfis, mod hd, non calc, loc calc, micromic, Tr carb, l.P. vf sdy grad Sst, gen v slty grad Sltst, Tr Pyr.
Top Ile Fm at 3447.9 m MD / 3447.4 m TVD
C: blk-brn blk, Anthr, r vit/brit, arg, mod hd
Inc:3.7°
Az:178.5°
3453.0 m
Sst: lt olv gry, clr-mky-Qtz, vf-f, pred f, sbang-sbrndd, mod srt, gen non calc, l.P.calc, micromic, Tr carb, loc v arg /slty grad Sltst/Clst, n.v.p. , n/s
Slst: lt gry-med lt gry, amor, slt-occ frm, slily calc, v sdy grad Sst a/a, v arg, micromic, Tr carb
3500
Inc:3.8°
Az:200.2°
3513.0 m
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
Ls: v lt gry-yel gry, slt, pred slily arg, occ microxln
3550
Top Ror Fm at 3558 m MD / 3557.2 m TVD
Clst: med gry-med dk gry, sbfis-fis, frm, slily calc, silty
Inc:4.2°
Az:210.8°
3570.6 m
Sst: med lt gry-med gry, clr-mky Qtz, v f-f, pred v f, sbang-sbrndd, wl srt, fri.slt, 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
3600
Inc:4.9°
Az:224.4°
3628.4 m
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,l.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.


SYSTEM
SERIES
STAGE
GROUP
FORMATION
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Pliensbachian
Lower Toarcian
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Åre
ROP
200 m/hr 0
CALI
6 in 26
BS
RS
0.2 ohmm 2000
RM
0.2 ohmm 2000
RD
TNPH
0.45 frac -0.15
RHOB
1.95 g/cc 2.95
GAS
0 % 10
DTCO
240 us/ft 40
DTSM
Top Tilje Fm at 3684 m MD / 3682.7 m TVD
Too Åre Fm at 3882 m MD / 3878.7 m TVD
TD at 3931 m MD / 3927 m TVD
OBM: Versavert, MW: 1.61sg
OBM: Versavert, MW: 1.60sg
Inc:7.5° Az:248.9° 3685.6 m
Inc:7.7° Az:250.9° 3712.9 m
Inc:8.1° Az:256.6° 3740.1 m
Inc:8.1° Az:256.7° 3768.6 m
Inc:8.3° Az:257.0° 3797.7 m
Inc:8.3° Az:259.4° 3825.1 m
Inc:8.6° Az:259.3° 3852.0 m
Inc:8.9° Az:261.9° 3879.2 m
Inc:9.6° Az:263.3° 3910.1 m
Clst olv blk,mod hd,sltfis-fis,non calc,micromic,Tr carb,slty,r Tr vf sdy.
Sst lt brn gry- lt olv gry, clr-mky Qtz, gen f, sbang-sbmdd, 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-sbmdd, 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-sbmdd, 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,wtSltv lt gry-pk gry-pl yel or-dk yel brn, clr-mky Qtz, vf-m, ang-sbmdd, 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, sbmdd-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-sbmdd,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
Sst lt gry,pl yel brn-yel brn,f-crs,bcm pred vf-f,ang-sbmdd,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-sbmdd,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
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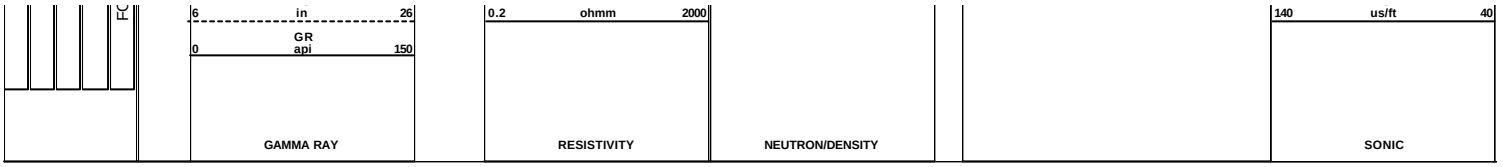
FC
6 in 26
GR
0 api 150
GAMMA RAY
0.2 ohmm 2000
RESISTIVITY
NEUTRON/DENSITY
140 us/ft 40
SONIC