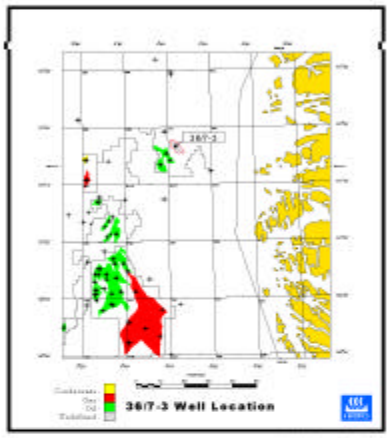
Composite Log

Gjøa Area

Scale: 1 / 500

Well: 36/7-3

Location Map



KB Elevation	24 m	Country	Norway
Water Depth	349 m MSL	Licence	PL 153
Depth Reference	RKB		
		Owners	Hydro 30% Petoro 30% Statoil 20% Norske Shell 12 % RWE-DEA Norge 8 %
Total Depth (Driller)	2945 m RKB 2945.8 m TVD RKB		
Total Depth (Logger)	N/A N/A		
		Field	Gjøa Area
Formation at Total Depth	Heather Formation	Platform	Transocean Arctic
Date Spudded	11 Desember 2001		
Date Reached TD	30 Desember 2001		
Date Completed		Drilling Contractor	Transocean
		Mudlogging Company	Geoservices
Well Status	Plugged and abandoned	Logging Company	Schlumberger
		MWD Company	Anadrill (Schlumberger)
Well Classification	Exploration	Geologists	C.Dons, B.Schønningsen, E.Skottlien, V.H.Nygård
Prepared by	C.Dons, B.Schønningsen, E.Skottlien, V.H.Nygård		
Controlled by			
Date			
Well Coordinates	Spud Location Geographical	61deg25min33.12sec N	04deg02min58.61sec E
	Spud Location UTM (Final Location Fix)	6810836.9 m North	556023.6 m East

Output log file created : 2003.09.23 14:05:33
Welog well ID : 36_7_3
Welog template version : 20010309 - AJC

Casing Records

Diameter	Shoe depth m MD RKB	Shoe depth m TVD RKB
30" Casing shoe	445	445
20" Casing shoe	571.7	571.5
13 3/8" Casing shoe	1348	1348
9 5/8" Casing shoe	2350	2349

LOT / FIT

Type	Result SG	Depth m MD RKB	Depth m TVD RKB
LOT	1.39	581.0	581.0
LOT	1.52	1358.0	1357.2
LOT	1.55	2360.0	2358.9

Comments

Logs

Run no.	Log type	Logged interval
No logs run		

Cores

Core no.	Cored interval m MD RKB	Recovered interval m MD RKB	Rec. mMD	Rec. %
No cores				

Pressure points (MDT)

Test no.	Depth m MD RKB	Depth m TVD RKB	Form. Press. SG	Test no.	Depth m MD RKB	Depth m TVD RKB	Form. Press. SG
No formation pressure tests							

Perforated Intervals

Interval no.	Perforation top m MD RKB	Perforation bottom m MD RKB
No perforated intervals		

Perforated Intervals

Interval no.	Perforation top m MD RKB	Perforation bottom m MD RKB
No perforated intervals		

Perforated Intervals

Interval no.	Perforation top m MD RKB	Perforation bottom m MD RKB
No perforated intervals		

Lithology Legend

CONGLOMERATE, LIMESTONE, ANHYDRITE, SANDY, VERY, CARBONACEOUS MAT.
SANDSTONE, DOLOMITE, SALT, SANDY, CHERT
SILTSTONE, DOL. LIMESTONE, GYPSUM, SANDY, SLIGHTLY, GLAUCONITE
SILTY, VERY, MICA

Symbol legend

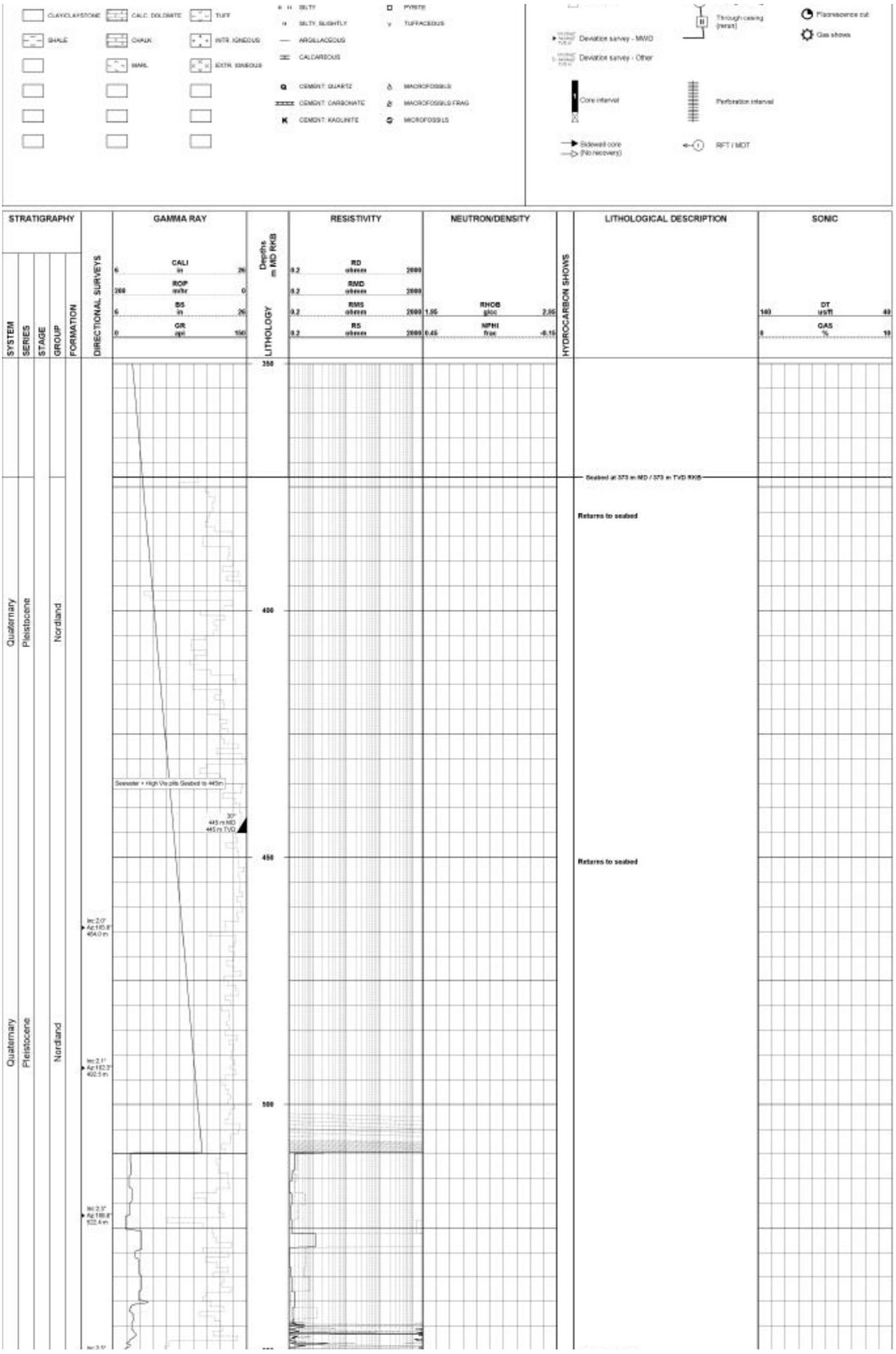
DST

Casing shoe
Liner hanger
Liner shoe

2 Open hole
2 Open hole (reran)
II Through casing

SHOWS

Oil stain
Fluorescence
Visible cut


CLAY/CLAYSTONE
CALC. DOLOMITE
TUFF
SHALE
CHALK
INTR. IGNEOUS
MARL
EXTR. IGNEOUS
SILTY
SILTY, SLIGHTLY
ARGILLACEOUS
CALCAREOUS
CEMENT: QUARTZ
CEMENT: CARBONATE
CEMENT: KAOLINITE
PYRITE
TUFFACEOUS
MACROFOSSILS
MACROFOSSILS FRAG
MICROFOSSILS
Through casing (years)
Fluorescence cut
Gas shows
Deviation survey - MWD
Deviation survey - Other
Core interval
Perforation interval
Sidewall core
(No recovery)
RFT / MDT
STRATIGRAPHY
SYSTEM
SERIES
STAGE
GROUP
FORMATION
DIRECTIONAL SURVEYS
GAMMA RAY
CALI
in
6
26
ROP
m/hr
200
0
BS
in
6
26
GR
api
0
150
Depths m MD RKB
LITHOLOGY
RESISTIVITY
RD
ohmm
0.2
2000
RMD
ohmm
0.2
2000
RMS
ohmm
0.2
2000
RS
ohmm
0.2
2000
NEUTRON/DENSITY
RHOB
gcc
1.95
2.95
NPHI
frac
0.45
-0.15
HYDROCARBON SHOWS
LITHOLOGICAL DESCRIPTION
SONIC
DT
us/ft
140
40
GAS
%
0
10
350
400
450
500
Quaternary
Pleistocene
Nordland
Seabed at 373 m MD / 373 m TVD RKB
Returns to seabed
Returns to seabed
Seawater + High Viscpills Seabed to 445m
30°
445 m MD
445 m TVD
Inc 2.0°
Az 185.8°
464.0 m
Inc 2.1°
Az 182.3°
492.5 m
Inc 2.3°
Az 186.8°
522.4 m

Quaternary
Tertiary
Pleistocene
Paleocene
Thanetian
Nordland
Rogaland
Sele

Returns to seabed

LOT at 581.8 m MD / 581.8 m TVD, 1.39 SG

577.0 - 602.0 m
Slst intbd w/ Sst
Slst: olv gry-olv blk, sbblky, sft, arg, r carb mat, r micarsec, r ady, v f-n cra, r arti frag, r glauc.

Top Sele at 603 m MD / 603 m TVD RKB

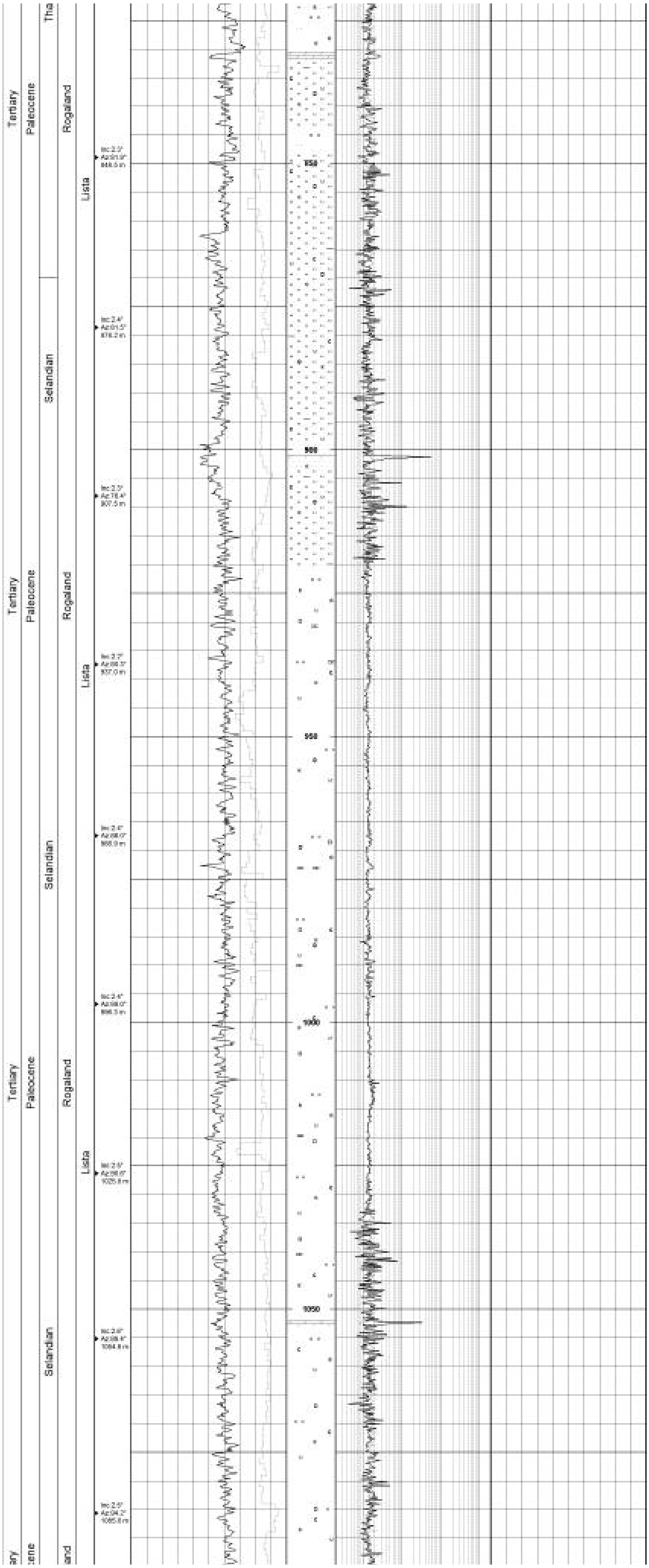
602.0 - 656.0 m
Siltstone with minor Sandstone stringers
Slst: olv gry-olv blk, sbblky, sft, arg, r carb mat, r micarsec, r ady, v f-n cra, r arti frag, r glauc.
Sst: clr-trnsl lse Qtz, ang-sbang, v f-cra, pred m, r s cra, r glauc, r pyr

Sst: clr-trnsl lse Qtz, sbang-sbrndd, f-m, pred m, r v f, r cra, mod arti, r blk spec, r mic, r glauc, sil arg.

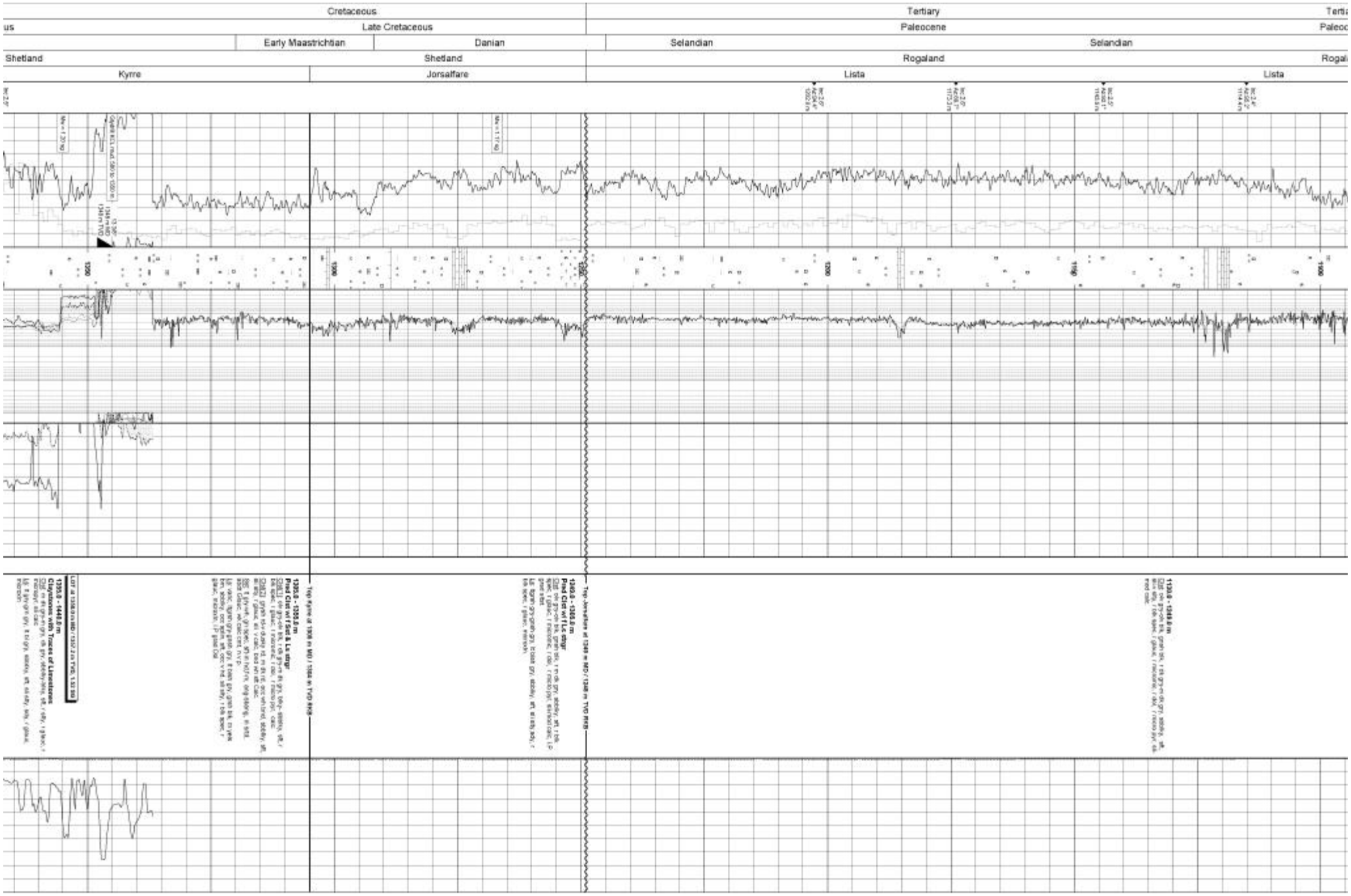
785.0 - 800.0 m
Clst slty w/ Slst & Sst
Clst: olv gry-olv blk, grnish gry-grnish blk, blky, sft-firm, sli slty, r ady, r blk spec, r glauc, r micarsec, non calc.
Slst: olv gry-olv blk, sbblky, sft, arg, r carb mat, r micarsec, r ady, v f-n cra, r arti frag, r glauc.
Sst: clr-trnsl lse Qtz, sbang-sbrndd, f-m, pred m, r v f, r cra, mod arti, r blk spec, r mic, r glauc, sil arg.

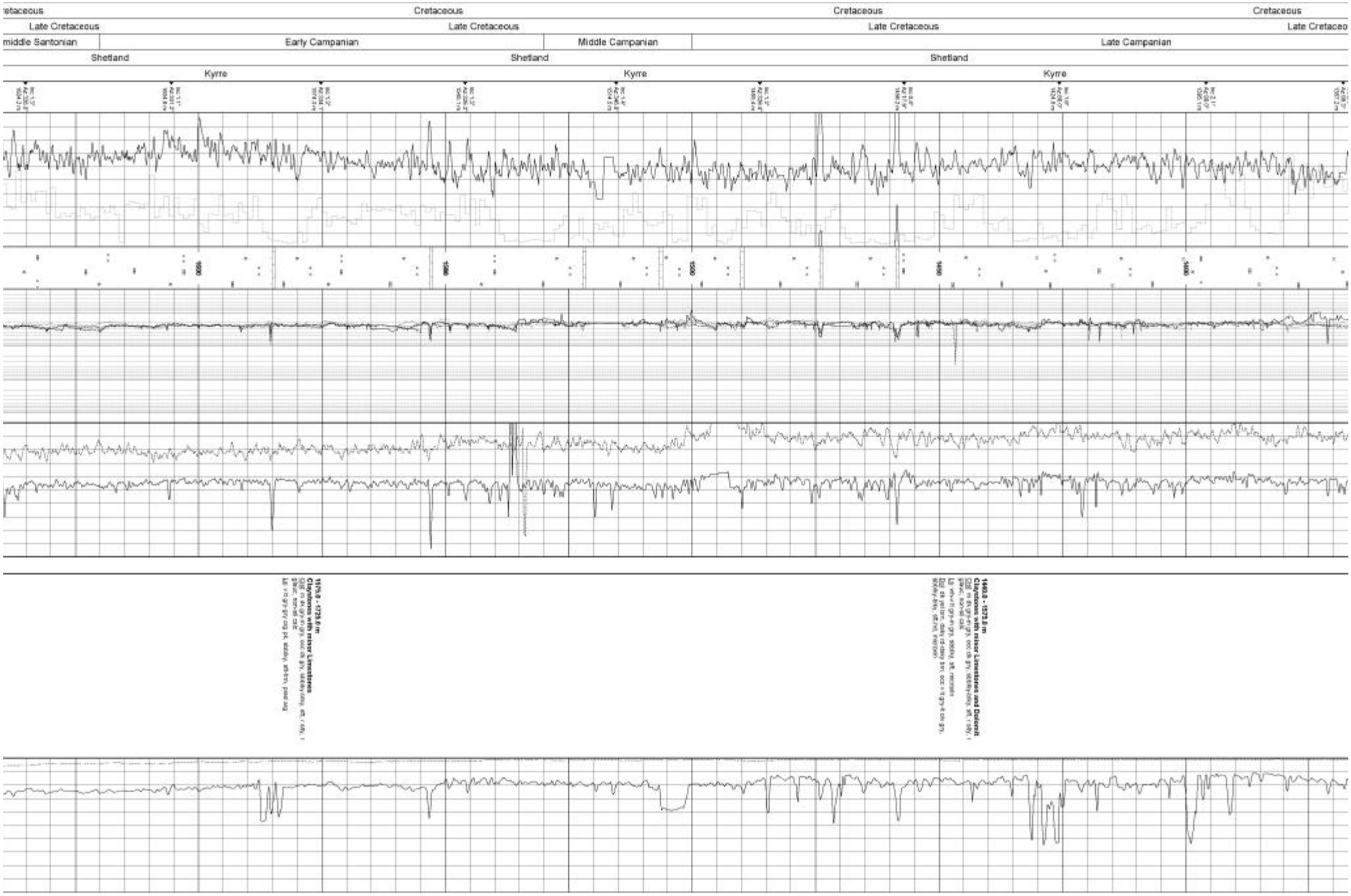
Top Lista at 800 m MD / 800 m TVD RKB

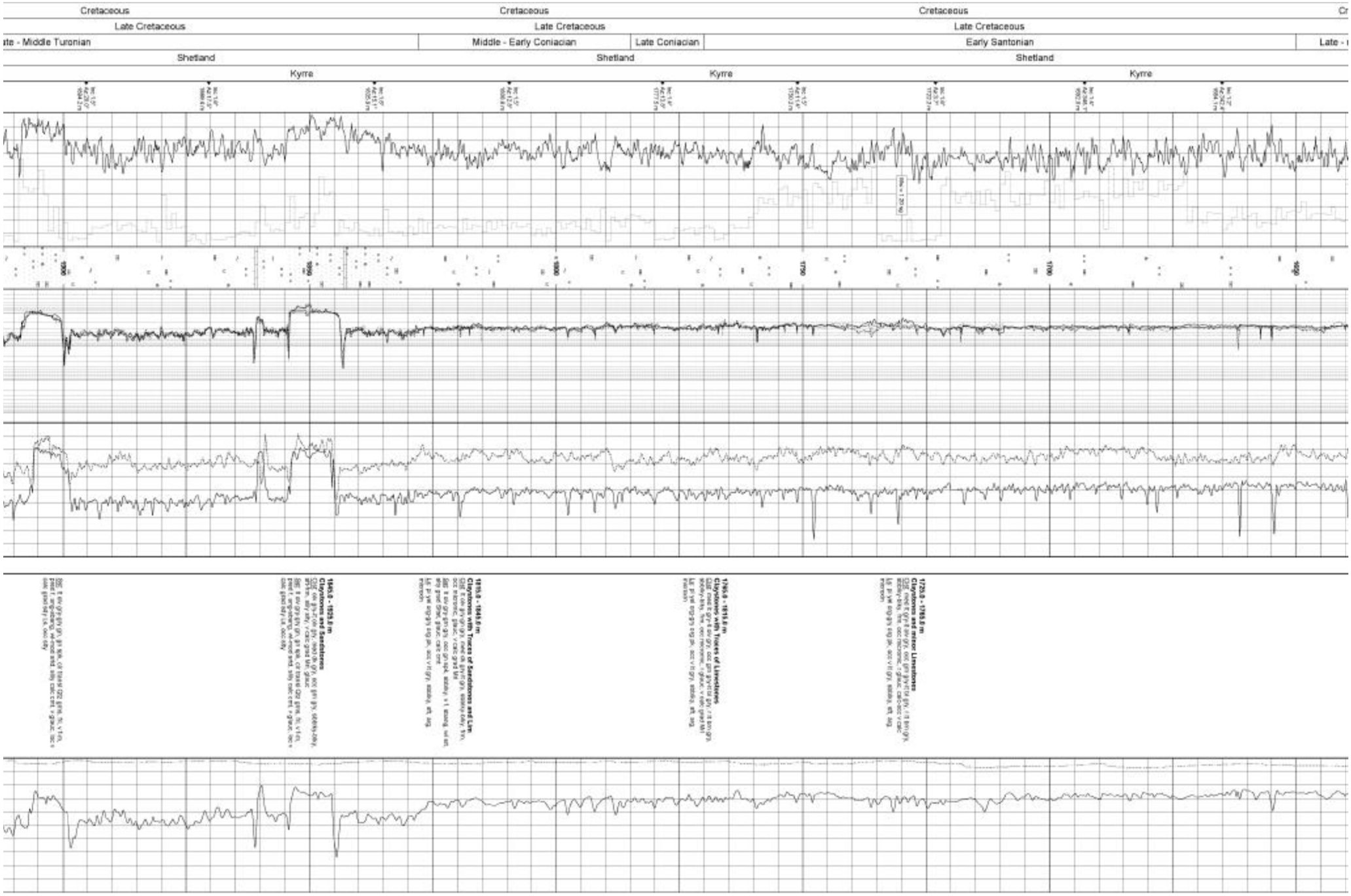
800.0 - 920.0 m
Pred Slst w slty Clst & mnr Sst & Dol
Clst: olv gry-olv blk, grnish gry-grnish blk, occ mod gry, sbblky, sft, sli-v slty, r ady, r blk spec, r glauc, r micramic, r Foss frag, non calc.
Slst: olv gry-olv blk, sbblky, sft, arg, r carb mat, r micarsec, r sli ady, r glauc.
Sst: clr-trnsl lse Qtz, sbang-sbrndd, r mod, m-cra, pred m, r v cra, mod arti, r pyr, r mic, r glauc.
Dol: mod yelsh brn-olv yelsh brn, occ brnsh gry, hd-v hd, splin-ang, r blk spec, r microppr, microsbh-ioh, occ grad dol Lst.

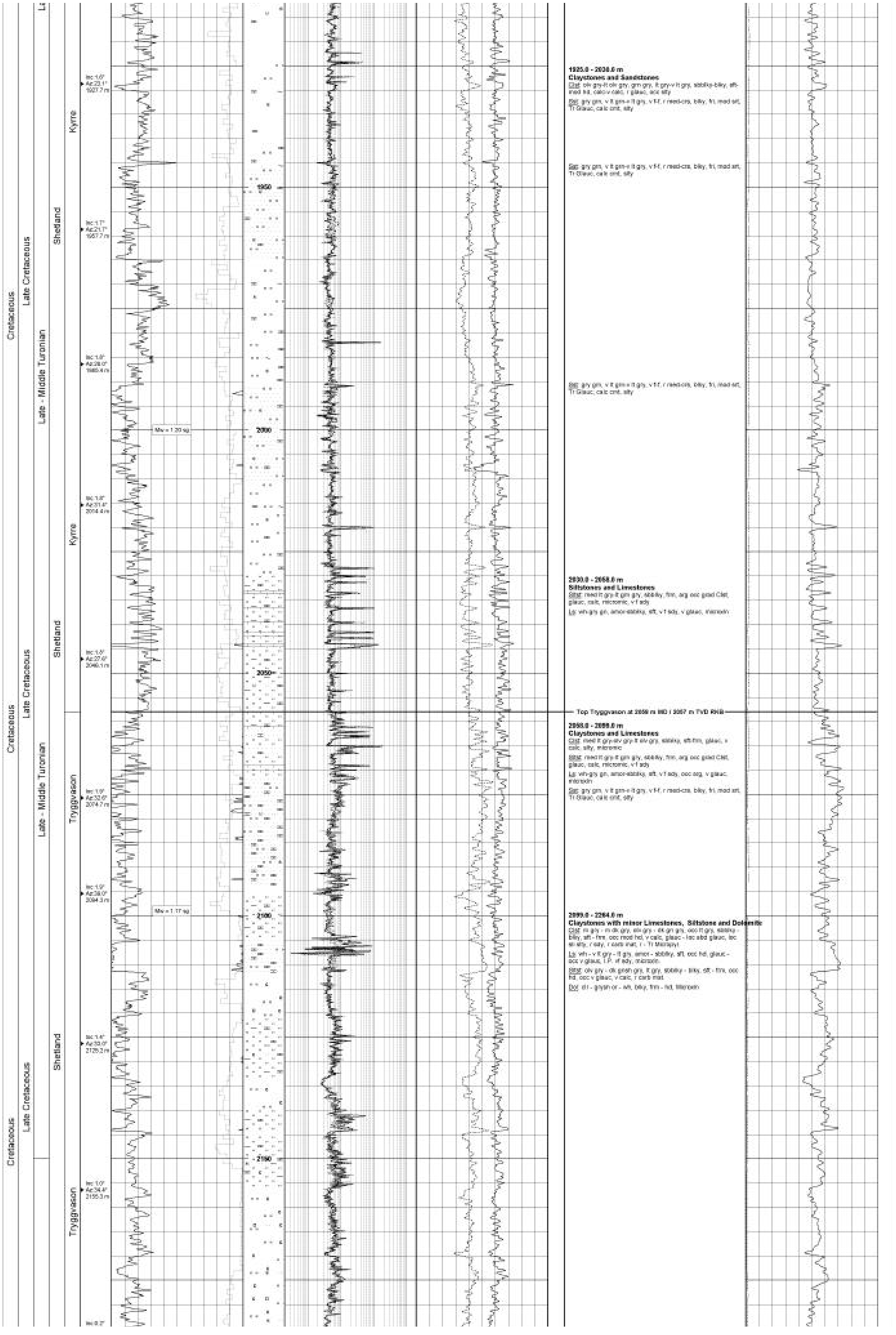


920.0 - 1130.0 m
Pred Clst altg w/ Sltst & mnr Sst & Dol
Clst: olv gry-olv blk, occ med gry, sbblky, sft, sli-v slty, r blk spec, r glauc, r micromic, r Foss frag, r pyr, sli-mod calc.
Sltst: olv gry-olv blk, sbblky, sft, arg, r carb mat, r micromic, r sli sdy, r glauc.
Sst: clr-trnsl, occ wh, lse Qtz, sbang-sbrndd, r mdd, m-crs, pred m, r v crs, mod srtd, r pyr, r mic, r glauc.
Dol: mod yelsh brn-dk yelsh brn, occ brnsh gry, hd-v hd, sbblk-ang, r blk spec, r micropyr, microxln-crn, occ grad dol Lst.

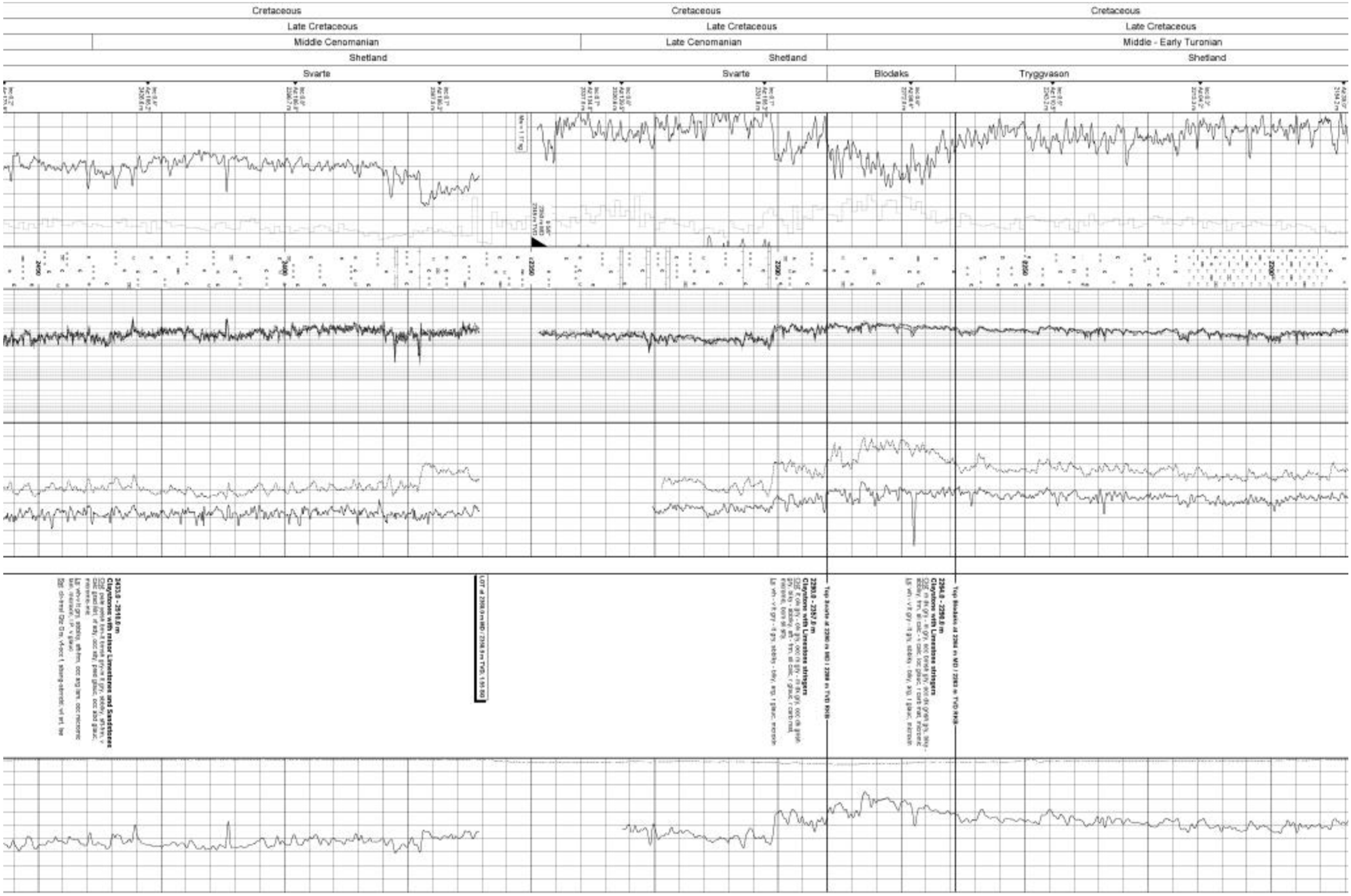

Cretaceous
Tertiary
Late Cretaceous
Paleocene
Early Maastrichtian
Danian
Selandian
Selandian
Shetland
Shetland
Rogaland
Kyrre
Jorsalfare
Lista
Lista
Top Kyrre at 1309 m MD / 1308 m TVD RKB
Top Jorsalfare at 1349 m MD / 1348 m TVD RKB

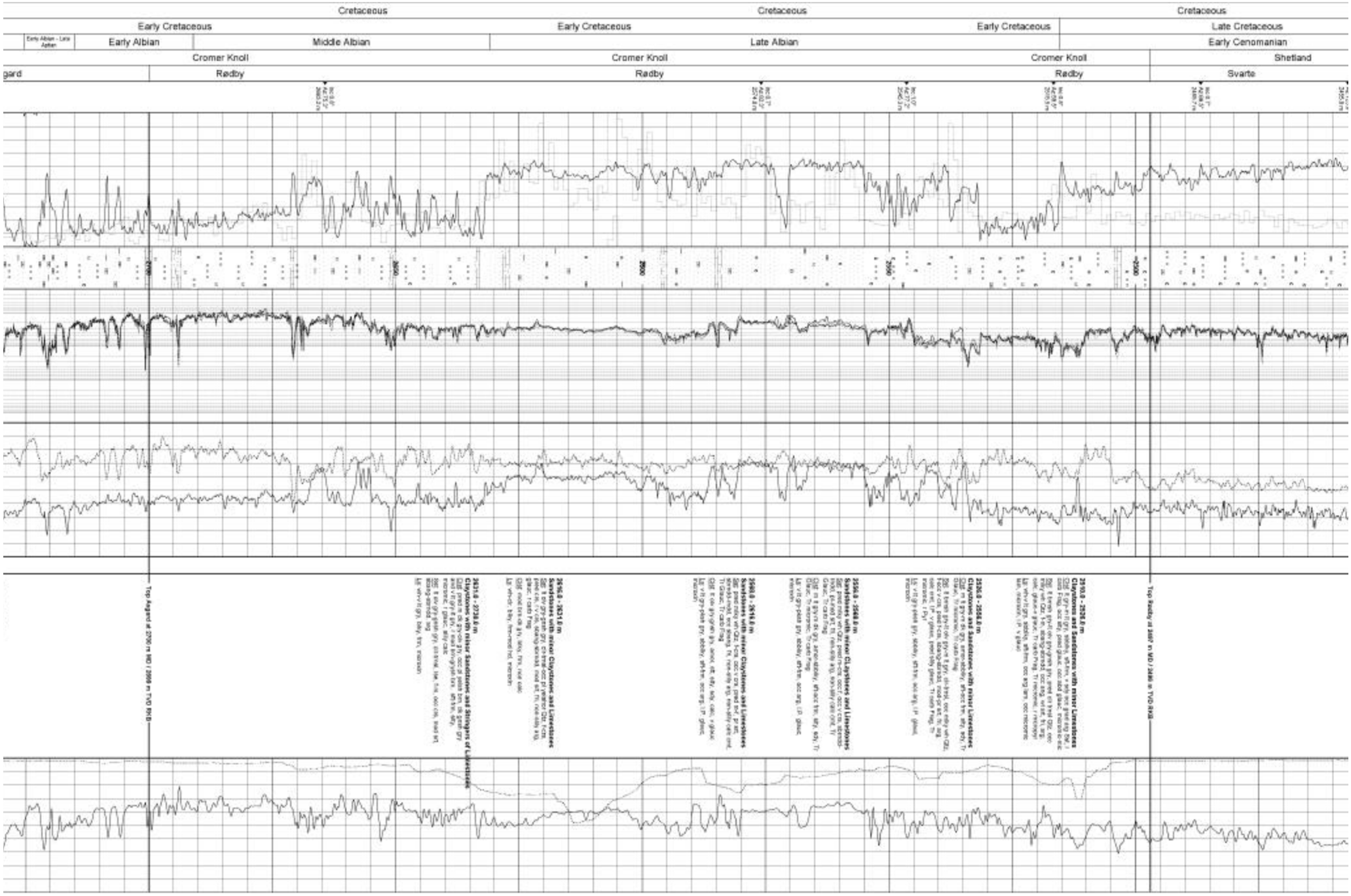

etaceous
Cretaceous
Cretaceous
Cretaceous
Late Cretaceous
Late Cretaceous
Late Cretaceous
Late Cretaceo
middle Santonian
Early Campanian
Middle Campanian
Late Campanian
Shetland
Shetland
Shetland
Kyrre
Kyrre
Kyrre
9500
9500
9500
9500
1970.0 - 1728.0 m
Claystones with minor Limestones
1460.0 - 1273.0 m
Claystones with minor Limestones and Dolomit


Cretaceous
Late Cretaceous
te - Middle Turonian
Middle - Early Coniacian
Late Coniacian
Early Santonian
Late -
Shetland
Kyrre
1900
1850
1800
1750
1700
1650
1645.0 - 1928.0 m
Clinoptilonus and Saxotoxus
1835.0 - 1845.0 m
Clinoptilonus with Traces of Saxotoxus and Lam
1765.0 - 1815.0 m
Clinoptilonus with Traces of Limestones
1720.0 - 1765.0 m
Clinoptilonus and minor Limestones



Cretaceous
Late Cretaceous
Late - Middle Turonian
Shetland
Kyrre
Tryggvason
1950
2000
2050
2100
2150
Mw = 1.20 sg
Mw = 1.17 sg
1925.0 - 2030.0 m
Claystones and Sandstones
Clst: olv gry-lt olv gry, grn gry, lt gry-v lt gry, sbblky-blky, sft-mod hd, calc-v calc, r glauc, occ slty
Sst: gry grn, v lt grn-v lt gry, v f-f, r med-crs, blky, fri, mod srt, Tr Glauc, calc cmt, slty
2030.0 - 2058.0 m
Siltstones and Limestones
Sltst: med lt gry-lt grn gry, sbblky, frm, arg occ grad Clst, glauc, calc, micromic, v f sdy
Ls: wh-gry grn, amor-sbblky, sft, v f sdy, v glauc, microxln
Top Tryggvason at 2058 m MD / 2057 m TVD RKB
2058.0 - 2099.0 m
Claystones and Limestones
Sltst: med lt gry-lt grn gry, sbblky, frm, arg occ grad Clst, glauc, calc, micromic, v f sdy
Ls: wh-gry grn, amor-sbblky, sft, v f sdy, occ arg, v glauc, microxln
Sst: gry grn, v lt grn-v lt gry, v f-f, r med-crs, blky, fri, mod srt, Tr Glauc, calc cmt, slty
2099.0 - 2264.0 m
Claystones with minor Limestones, Siltstone and Dolomite
Dol: dl - gryish or - wh, blky, frm - hd, Microxln


Cretaceous
Late Cretaceous
Middle Cenomanian
Late Cenomanian
Middle - Early Turonian
Shetland
Svarte
Blodøks
Tryggvason
2450
2400
2350
2300
3433.0 - 3518.0 m
Claystone with minor Limestone and Sandstone
2329.0 - 2357.0 m
Claystone with Limestone stringers
2264.0 - 2298.0 m
Claystone with Limestone stringers


Cretaceous
Cretaceous
Cretaceous
Early Cretaceous
Early Cretaceous
Early Cretaceous
Late Cretaceous
Early Albian – Late Aptian
Early Albian
Middle Albian
Late Albian
Early Cenomanian
Cromer Knoll
Cromer Knoll
Cromer Knoll
Shetland
gard
Rødby
Rødby
Rødby
Svarte
2700
2600
2500
2500
Top Asgard at 2706 m MD / 2699 m TVD RKB
Top Rødby at 3497 m MD / 3486 m TVD RKB
2631.0 - 2738.0 m
Claystones with minor Sandstones and Stringers of Limestones
2656.0 - 2631.0 m
Sandstones with minor Claystones and Limestones
2668.0 - 2656.0 m
Claystones and Sandstones with minor Limestones
2698.0 - 2668.0 m
Sandstones with minor Claystones and Limestones
2716.0 - 2698.0 m
Sandstones with minor Claystones and Limestones
2738.0 - 2716.0 m
Claystones and Sandstones with minor Limestones

SYSTEM
SERIES
STAGE
GROUP
FORMATION
STRATIGRAPHY
Jurassic
Cretaceous
Middle Jurassic
Late Jurassic
Early Cretaceous
Late Barremian
Middle Bathonian
Early Volgian
Late Rhyazanian
Early Valanginian
Late Hauterivian
Early Barremian
Viking
Cromer Knoll
Asgard
Heather
DIRECTIONAL SURVEYS
Inc 1.07°
Az 185.3°
2751.8 m
Inc 1.2°
Az 94.3°
2839.8 m
Inc 0.7°
Az 58.3°
2929.2 m
Mw = 1.17 sg
GAMMA RAY
0 GR api 150
6 BS in 26
200 ROP m/hr 0
6 CALI in 26
LITHOLOGY
2750
2800
2850
2900
2950
RESISTIVITY
0.2 RS ohmm 2000
0.2 RMS ohmm 2000
0.2 RWD ohmm 2000
0.2 RD ohmm 2000
NEUTRON/DENSITY
0.45 NPHI frac -0.15
1.95 RHOB gloc 2.55
HYDROCARBON SHOWS
LITHOLOGICAL DESCRIPTION
2730.0 - 2765.0 m
Claystones with minor Sandstones and Stringers of Limestones
Clst: pred m dk gry-ol gy, Tr mod brn-gryish brn and v pl or-pl yelsh brn, sft-frm, blky-sbblky, slty, micromic, abd glauc, calc, r microgy
Sst: lt slv gry-garsh gry, cl-trnsl, fae, f-vf, mod srt, sbang-sbrnd, arg, occ vf-f, silicals cmt
Ls: wh-v lt gry, blky, frm, microxln, loc grad calc Clst/Mrl
2765.0 - 2968.0 m
Claystones and Sandstones with Stringers of Limestones
Clst: pred m dk gry-ol gy, Tr mod brn-gryish brn and v pl or-pl yelsh brn, sft-frm, blky-sbblky, slty, micromic, abd glauc, calc, r microgy
Sst: lt gry-v gry, cl-trnsl-dusky cl Qtz, f-vf, occ crs, sbang-sbrnd, mod srt, fri-pred lse Qtz Gr, slty calc cmt, arg, mica, r glauc, r carb Frag
2765.0 - 2778.0 m
Sst: pred f, else a.a.
2778.0 - 2793.0 m
Sst: pred f-m, wl-mod srt, else a.a.
2793.0 - 2795.0 m
Sst: f-crs, pr srt, else a.a.
2795.0 - 2968.0 m
Sst: pred m-crs, incr f at base, mod-pr srt, else a.a.
Ls: wh-v lt gry, sbblky-blky, sft-occ frm, occ arg, r microsnic, microxln
Top Heather at 2928 m MD / 2927 m TVD RKB
2930.0 - 2948.0 m
Siltstones with minor Sandstones and Stringers of Limestones
Slst: lt gry-m lt gry, occ pl brn-lt brnish gry, r m dk gry-v dk gry, sbblky, sft-frm, slty-calc, arg, mica, Tr carb Frag-r carb Frag, occ vf ady, Tr Pyr
Sst: lt gry-v gry, cl-trnsl-milky wh Qtz, pred f, wl srt, ang-sbang, occ slimstd, sft-fri, calc-v calc cmt, slty, occ arg, Tr Glauc, Tr Mica, Tr carb Frag, abd Pyr
Ls: pl yelsh or-v pl or, v lt gry-lt gry, bcm pred wh-v lt gry from 2925m, sbblky-blky, sft-frm, occ slty arg, occ vf ads, occ Tr vf carb Frag
TD at 2948 m MD / 2947 m TVD RKB
SONIC
0 GAS % 10
140 DT us/ft 40