



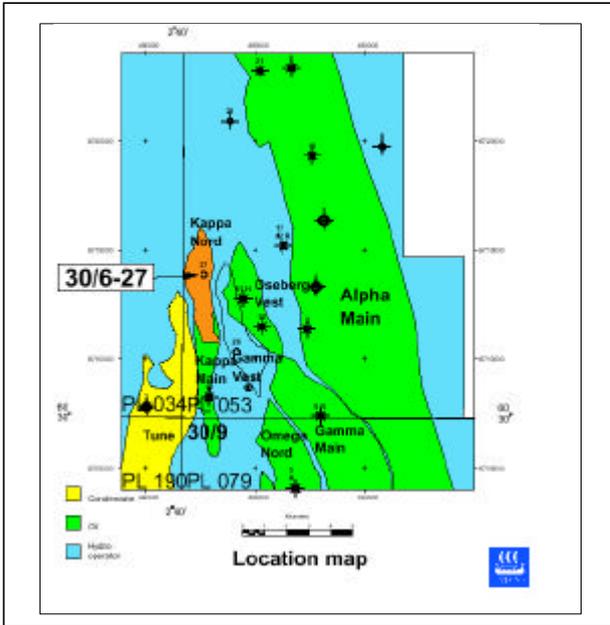
COMPOSITE LOG

OSEBERG, KAPPA NORD

Scale: 1 / 500

Well: 30/6-27

Location Map



KB Elevation	24m	Country	Norway
Water Depth	112m	Licence	PL 053
Depth Reference	RKB	Owners	Norsk Hydro ASA, Petoro AS, Statoil ASA, ExxonMobil, TotalFinaElf Norge
Total Depth (Driller)	3432m MD 3378m TVD	Field Platform	Oseberg, Kappa Nord Transocean Arctic
Total Depth (Logger)	N/A N/A	Drilling Contractor	Transocean
Formation at Total Depth	Lower Staffjord	Mudlogging Company	Geoservices
Date Spudded	08.10.2001	Logging Company	Schlumberger WS
Date Reached TD	19.10.2001	MWD Company	Schlumberger Anadroll
Date Completed	30.10.2001	Geologists	E. Skottlien, B.Schanningsen, A.Halvorsen, K.L.Kalgraff.
Well Status	Plugged & Abandoned as an Oil & Gas Discovery		
Well Classification	Exploration		
Prepared by	E. Skottlien		
Controlled by	F. Johansen		
Date	April 2002		
Well Coordinates	Geographic 60° 33' 28.85" N ED50, UTM zone 31 6 713 759.6 mN (CM 3° E)	02° 40' 45.60" E 482 415.2 mE	

Output log file created : 2002-08-01 13:24:45
Winlog well ID : 30_6_27
Winlog template version : 20010309 - AJC

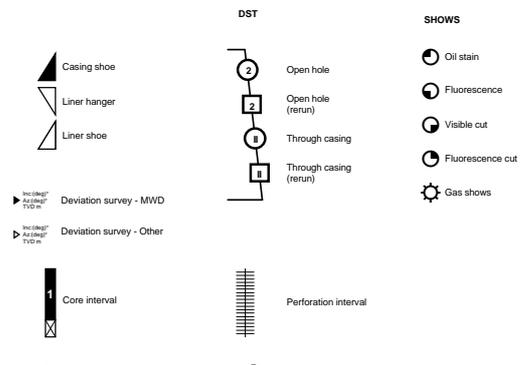
Casing Records			LOT / FIT				Comments
Diameter	Shoe depth m MD RKB	Shoe depth m TVD RKB	Type	Result (densityunits)	Depth m MD RKB	Depth m TVD RKB	
30" Casing shoe	210.0	210.0	LOT	1.68	1280.0	1280.0	The interval from 136-1287m MD was drilled with returns to seafloor. The lithology interpretations are based on MWD logs and drilling parameters.
13 3/8" Casing shoe	1280.0	1280.0	FIT	1.60	3055.0	3001.7	
9 5/8" Casing shoe	3055.0	3001.7					

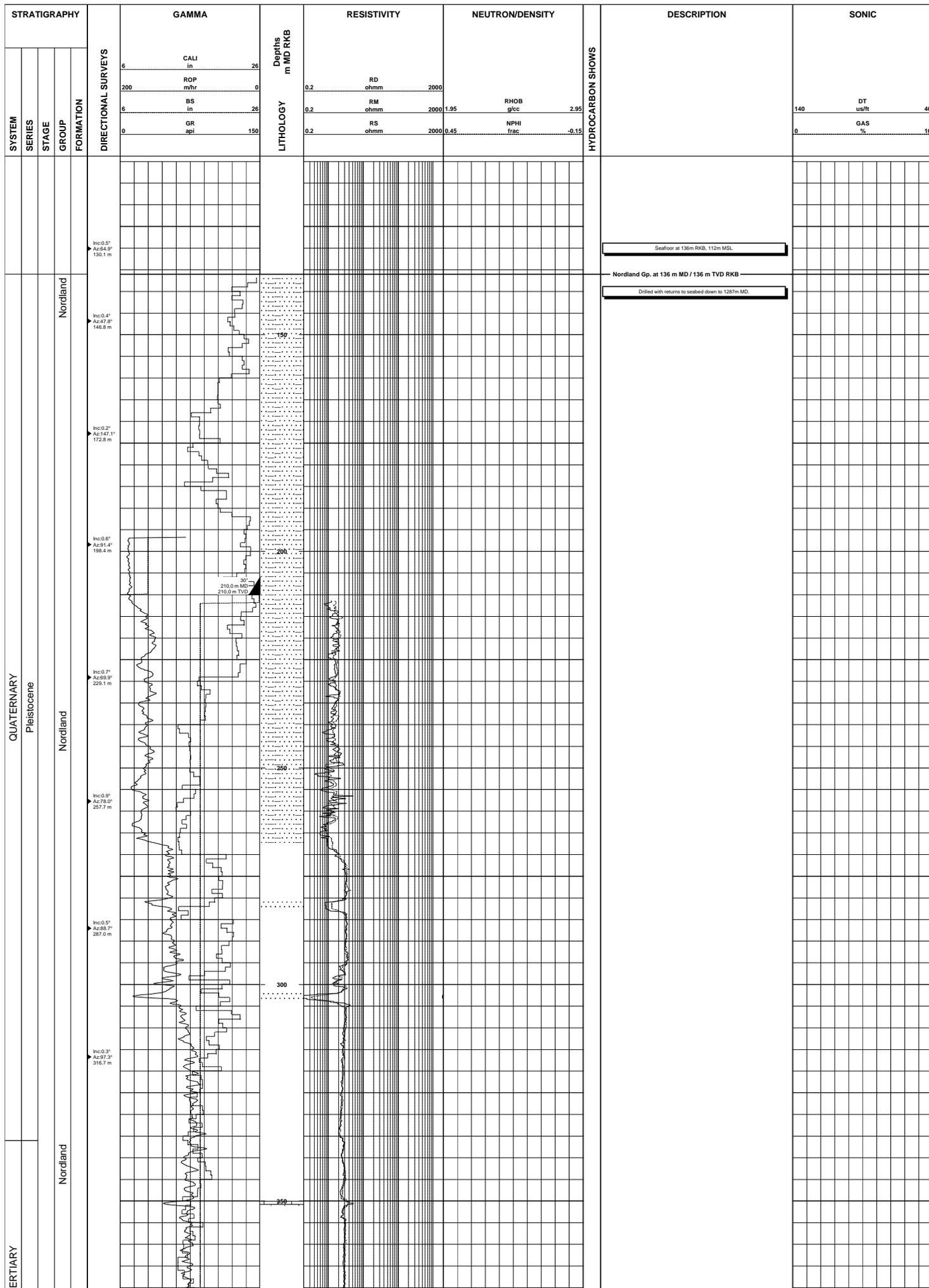
Logs			Cores					Pressure points (MDT)							
Run no.	Log type	Logged interval	Core no.	Cored interval m MD RKB	Recovered interval m MD RKB	Rec. mMD	Rec. %	Test no.	Depth m MD RKB	Depth m TVD RKB	Fnn. Press. (Bar)	Test no.	Depth m MD RKB	Depth m TVD RKB	Fnn. Press. (Bar)
1	MWD / LWD	136-209m	1	3162.0 3189.0	3162.0 3189.0	27.1	100.0	1	3403.3	3349.4	410.77	23	3232.0	3178.0	389.19
2	PowerPulse-CDR	209-211m						2	3400.0	3345.9	410.36	24	3225.5	3171.5	386.95
3	PowerPulse-CDR	196-1287m						3	3397.5	3343.4	410.10	25	3211.0	3157.1	385.28
4	PowerPulse-CDR	1287-3062m						4	3372.0	3317.9	406.43	26	3208.0	3154.1	384.86
5	PowerPulse-CDR	3062-3080m						5	3371.0	3316.9	406.48	27	3202.5	3148.6	384.33
6	PowerPulse-Vision675R-ADN	3080-3162m						6	3368.0	3313.9	406.98	28	3185.5	3131.6	383.30
7	PowerPulse-Vision675R-ADN	3160-3432m						7	3364.0	3309.9	405.64	29	3179.5	3125.6	381.67
1A	Wireline	3126.5-3404.5m						8	3362.0	3307.9	405.45	30	3169.5	3115.6	380.50
1B	MDT	3129.0-3352.5m						9	3355.0	3300.9	404.31	31	3163.5	3109.6	379.91
1A	VSP-DSI	2185.0-3400.0m						10	3354.0	3299.9	404.25	32	3161.5	3107.6	379.81
								11	3352.5	3298.4	404.16	33	3160.0	3106.1	379.77
								12	3351.5	3297.4	404.10	34	3151.5	3097.7	378.54
								13	3315.0	3260.9	402.90	35	3150.5	3096.7	378.48
								14	3307.0	3254.4	402.11	36	3148.5	3094.7	378.36
								15	3304.0	3249.9	401.80	37	3144.0	3090.2	378.14
								16	3299.5	3245.4	401.70	38	3142.5	3088.7	378.11
								17	3272.0	3217.9	394.10	39	3141.0	3087.2	378.08
								18	3268.0	3213.9	393.75	40	3136.0	3082.2	377.96
								19	3258.5	3204.5	392.83	41	3133.0	3079.2	377.90
								20	3251.0	3197.0	392.10	42	3129.0	3075.2	377.81
								21	3248.5	3194.5	391.85	43	3126.5	3072.7	377.76
								22	3244.5	3190.5	391.48				

Lithology Legend

Symbol legend

CONGLOMERATE	LIMESTONE	ANHYDRITE	SANDY, VERY	CARBONACEOUS MAT.
SANDSTONE	DOLOMITE	SALT	SANDY	CHERT
SILT/SILTSTONE	DOL. LIMESTONE	GYPSUM	SANDY, SLIGHTLY	GLAUCONITE
CLAY/CLAYSTONE	CALC. DOLOMITE	TUFF	SILTY, VERY	MICA
SHALE	CHALK	INTR. IGNEOUS	SILTY	PYRITE
MARL	EXTR. IGNEOUS	ARGILLACEOUS	SILTY, SLIGHTLY	TUFFACEOUS
CEMENT: QUARTZ	CEMENT: KAOLINITE	CALCAREOUS	MACROFOSSILS	MACROFOSSILS FRAG
CEMENT: CARBONATE	CEMENT: QUARTZ	MACROFOSSILS	MICROFOSSILS	





Nordland

Nordland

Nordland

hc:0.6°
Az:109.4°
455.0 m

hc:0.4°
Az:131.5°
434.4 m

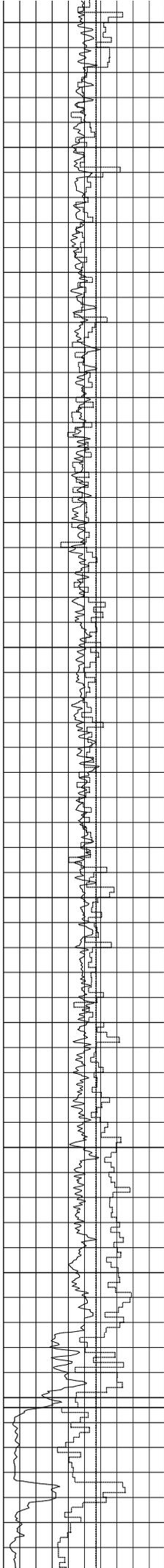
hc:0.3°
Az:134.3°
462.8 m

hc:0.2°
Az:132.1°
492.0 m

hc:0.1°
Az:138.9°
580.7 m

hc:0.3°
Az:146.2°
639.3 m

hc:0.3°
Az:252.0°
670.0 m



400

450

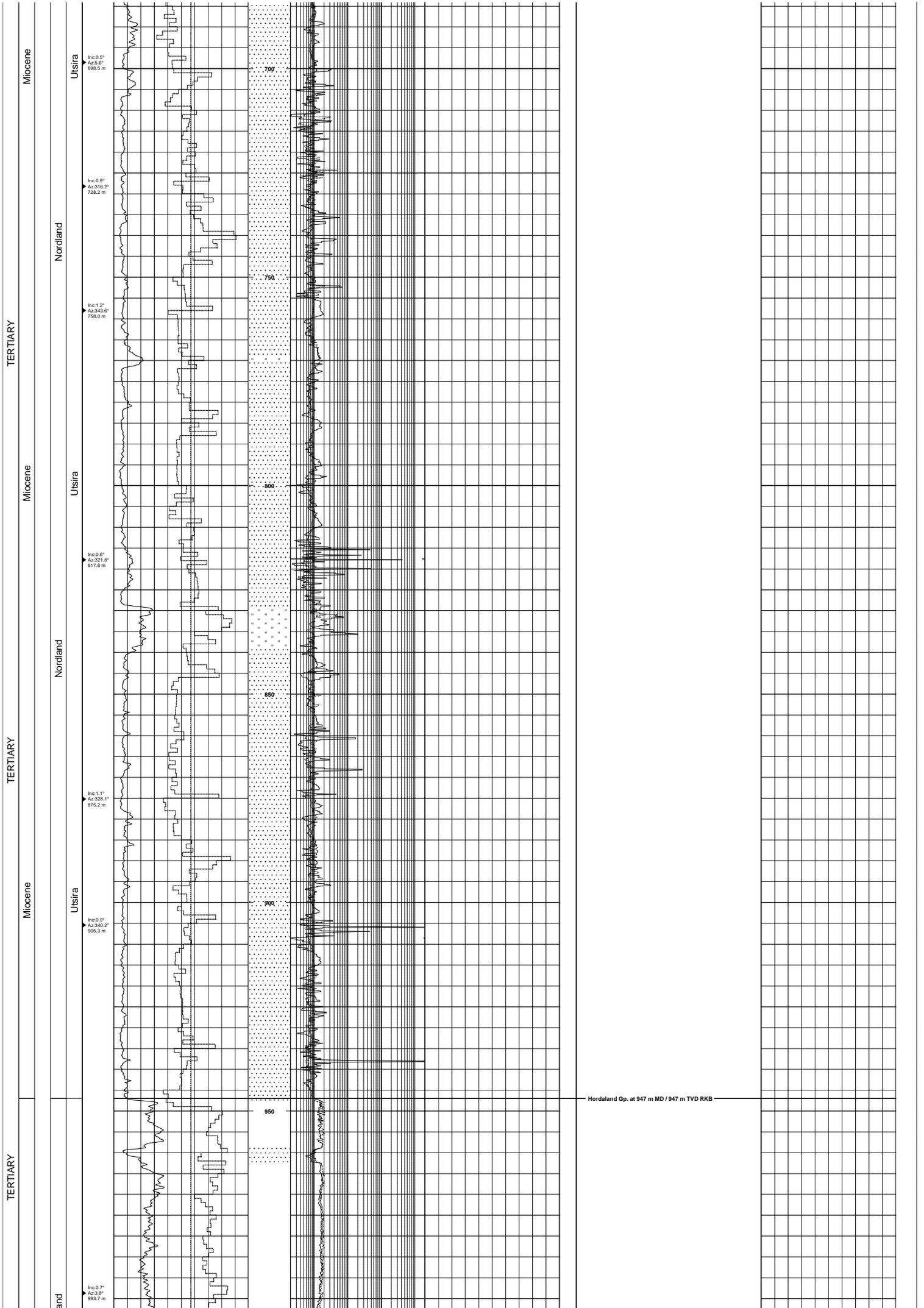
500

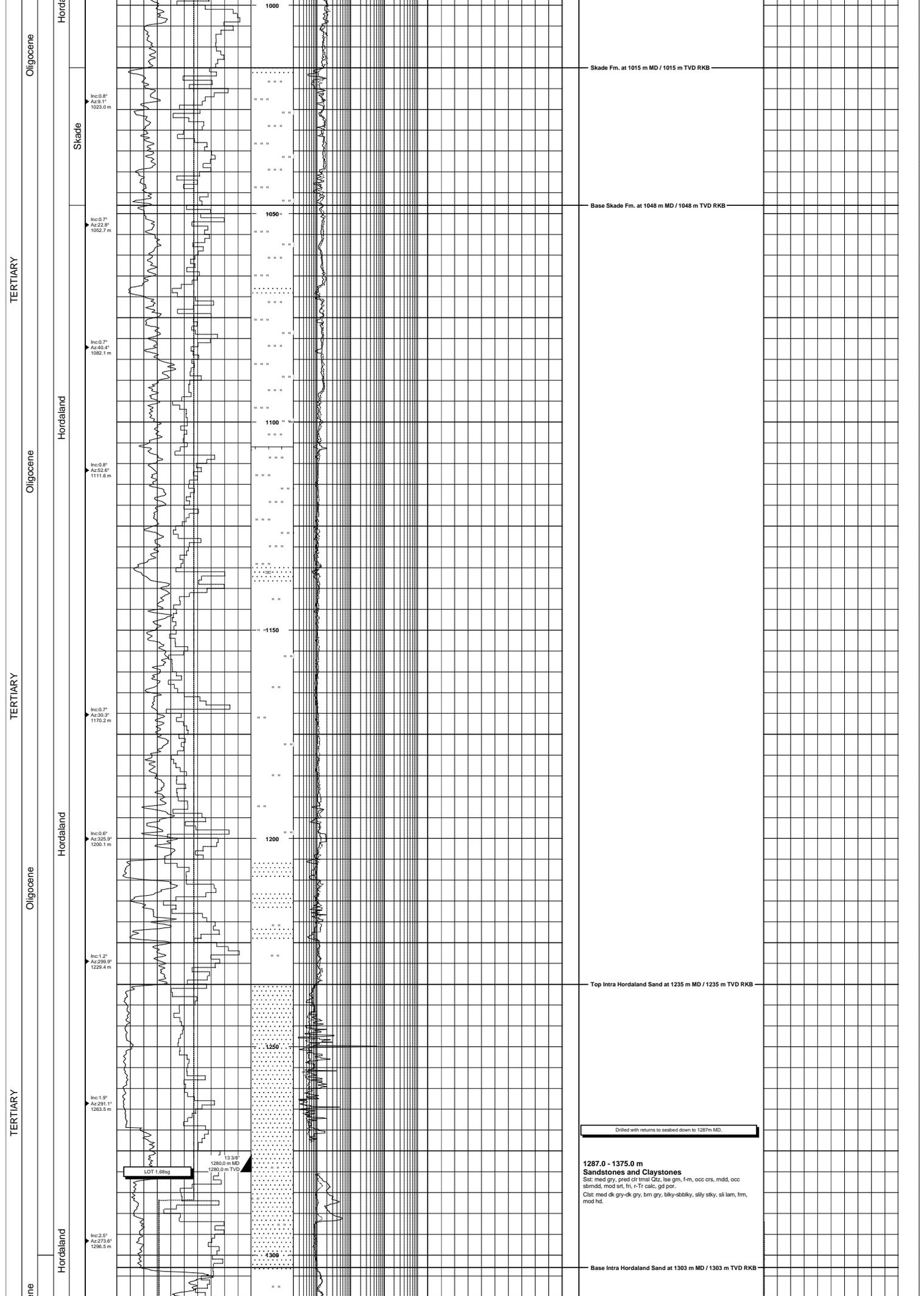
550

600

650

Utsira Fm. at 652 m MD / 652 m TVD RKB





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TERTIARY
Oligocene
TERTIARY
Oligocene
TERTIARY
Oligocene
TERTIARY
Oligocene

Hordaland
Skade
Hordaland
Hordaland
Hordaland
Hordaland
Hordaland
Hordaland

1000
1050
1100
1150
1200
1250
1300

Inc:0.8° Az:5.1° 1023.0 m
Inc:0.7° Az:22.8° 1062.7 m
Inc:0.7° Az:40.4° 1082.1 m
Inc:0.8° Az:5.8° 1111.6 m
Inc:0.7° Az:30.3° 1170.2 m
Inc:0.6° Az:325.9° 1200.1 m
Inc:1.2° Az:299.9° 1229.4 m
Inc:1.9° Az:291.1° 1263.5 m
Inc:2.5° Az:279.6° 1296.5 m

LOT 1.68sq
13.3°
1280.0 m MD
1285.0 m TVD

Skade Fm. at 1015 m MD / 1015 m TVD RKB
Base Skade Fm. at 1048 m MD / 1048 m TVD RKB
Top Intra Hordaland Sand at 1235 m MD / 1235 m TVD RKB
Base Intra Hordaland Sand at 1303 m MD / 1303 m TVD RKB

Drilled with returns to seabed down to 1287m MD.

1287.0 - 1375.0 m
Sandstones and Claystones
Sat: med gry, pred cir tmlal Qtz, lse gm, F-m, occ crs, mdd, occ sbmdd, mod srt, fri, r-Tr calc, gd por.
Cst: med dk gry-dk gry, bm gry, bky-sbbky, silly stky, sil lam, fm, mod ind.

TERTIARY

TERTIARY

TERTIARY

Eocene

Eocene

Eocene

Präbionian-Bartonian

Lutetian

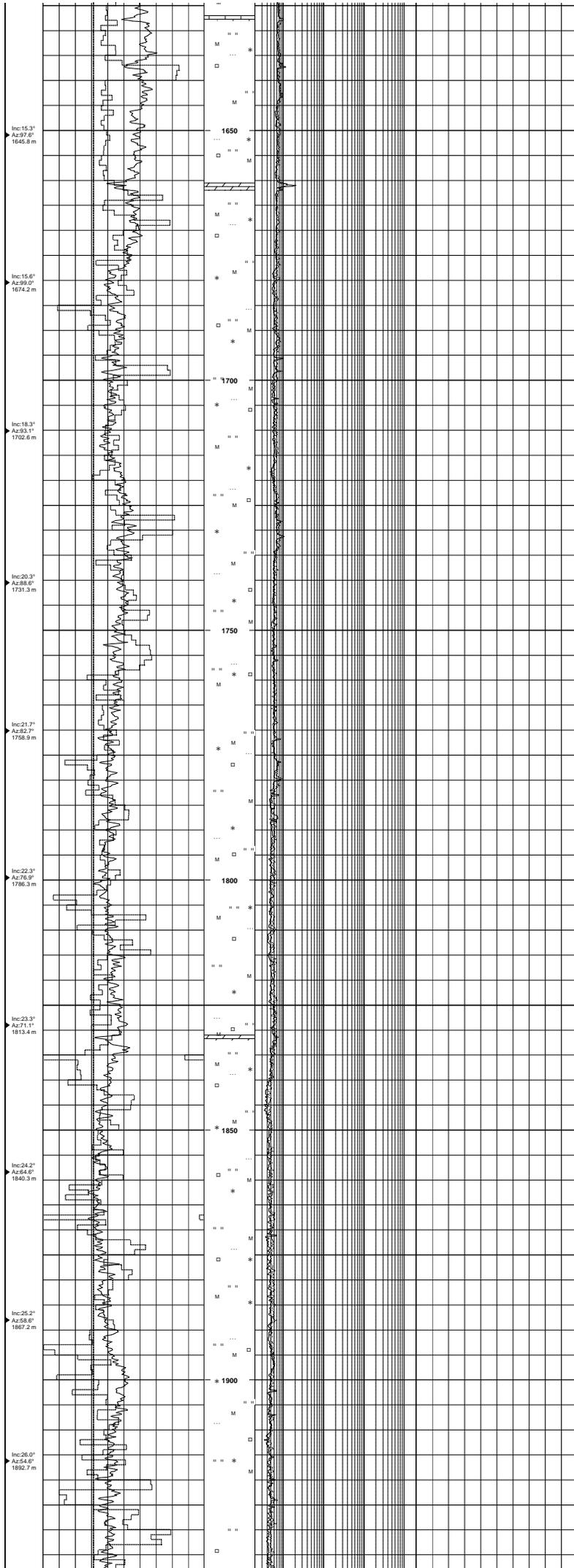
Hordaland

Hordaland

Hordaland

Hordaland

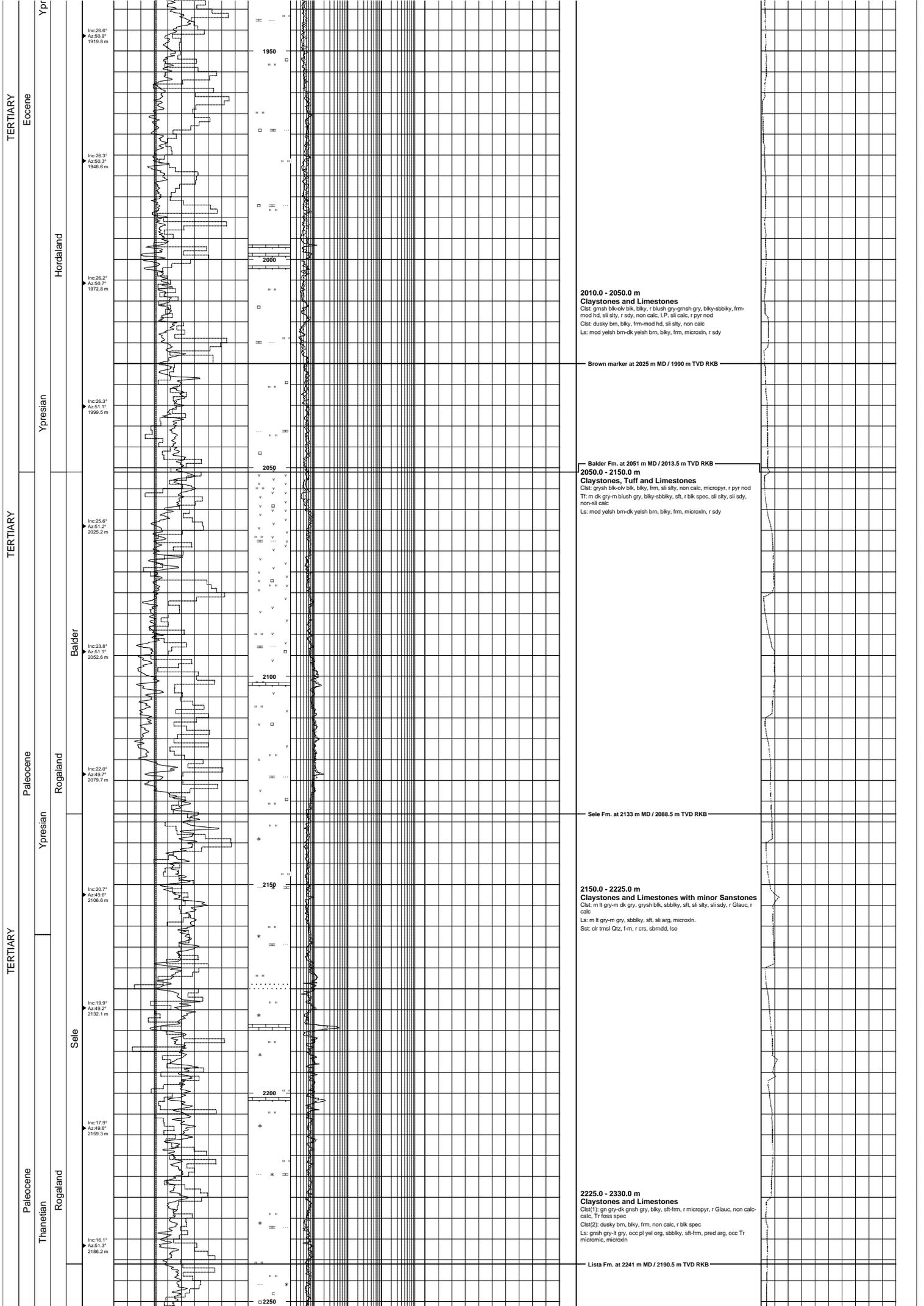
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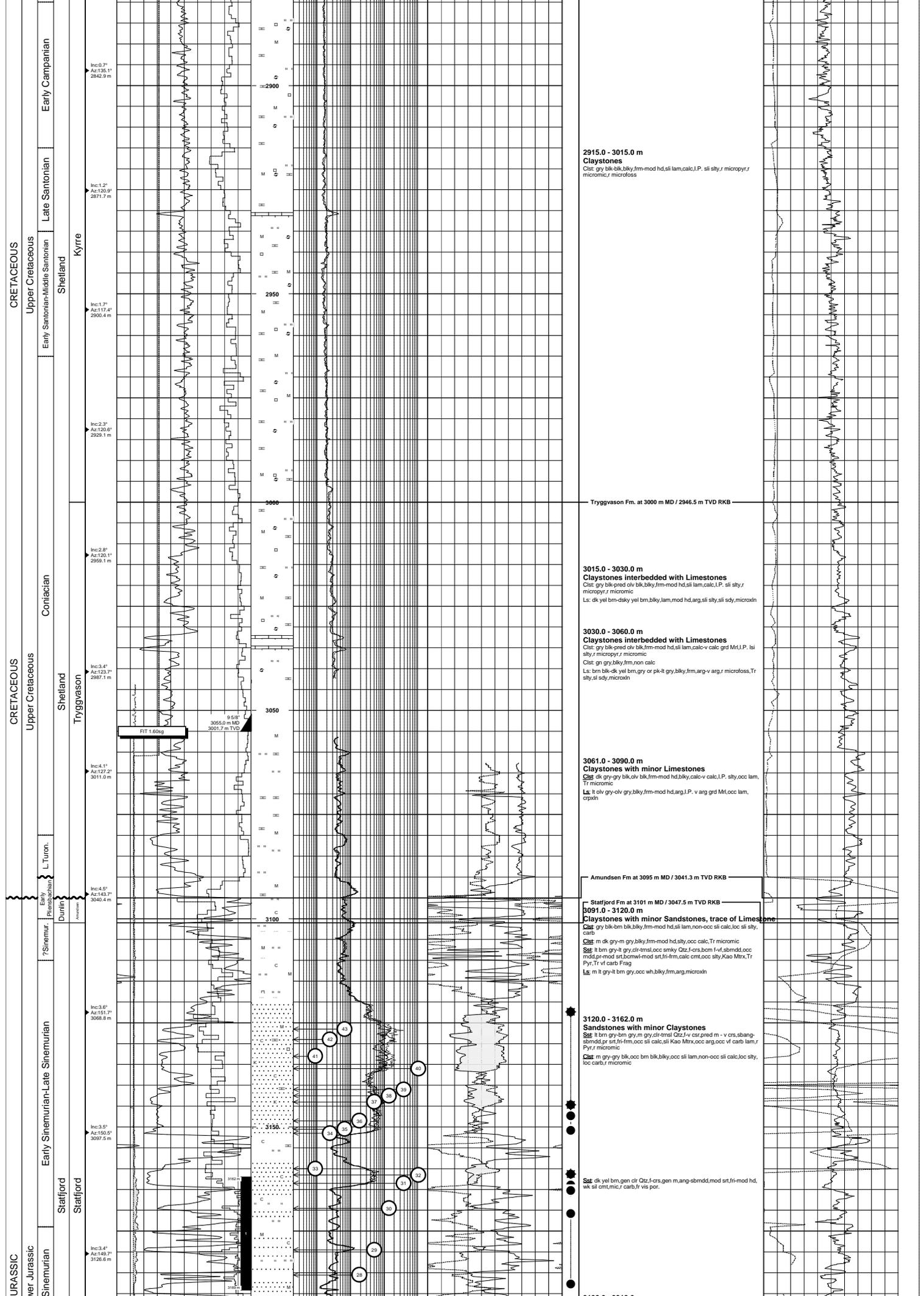


1625.0 - 1825.0 m
Claystones and Limestones
 Clst: med dk gry-med gry, lt brn gry-lt olv gry, olv blk-olv gry, grnsh blk-dk grnsh gry, blkly-sbbkly, stf-fm, r mod hd, Tr micromic, r sil stly, r Glauc, non calc, r sdyf.
 Dol: pl yel org-gry org, blkly, frm, occ sil arg lam, microxin.

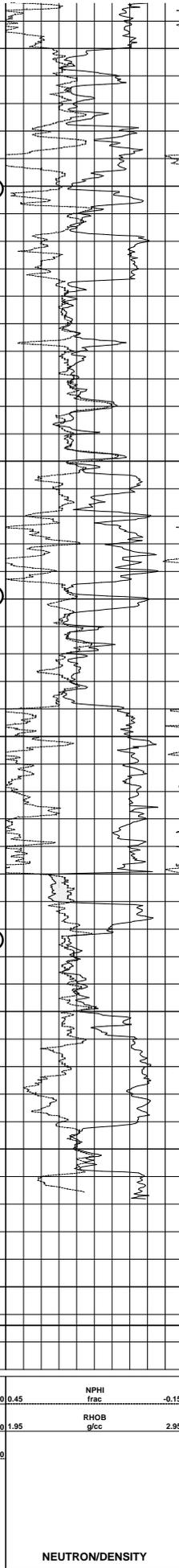
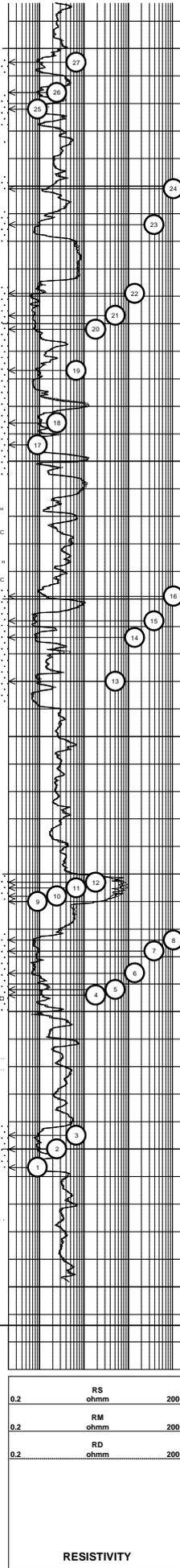
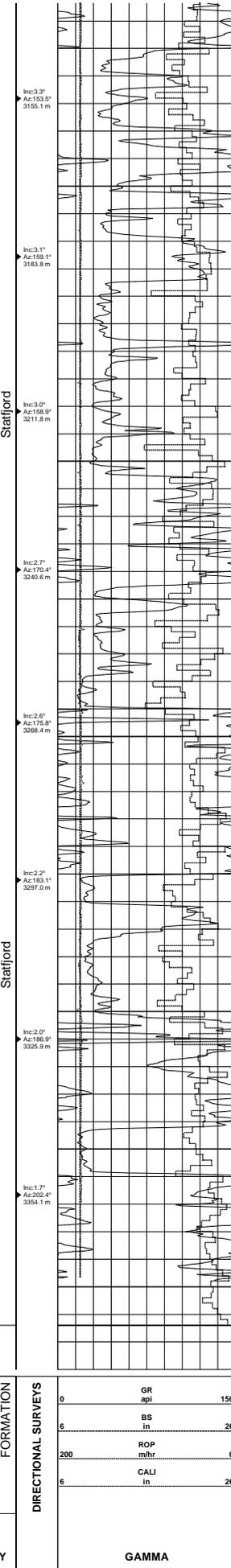
Green Clay marker at 1825 m MD / 1809.5 m TVD RKB
1825.0 - 1925.0 m
Claystones with rare Dolomites
 Clst: grnsh gry-dk grnsh gry, m bluish gry-med dk gry, blkly-sbbkly, stf, non calc
 Dol: pl yel org-gry org, blkly, frm, occ sil arg lam, microxin.

1925.0 - 2010.0 m
Claystones and Limestones
 Clst: grnsh blk-olv blk, blkly, r bluish gry-grnsh gry, blkly-sbbkly, frm-mod hd, sil stly, r sdy, non calc, I.P., sil calc, r pyr nod
 Ls: mod yelsh brn-dk yelsh brn, blkly, frm, microxin, r sdy





STRATIGRAPHY	SYSTEM	TRIASSIC	
	SERIES	Upper Triassic	
	STAGE	Rhaetian	
	GROUP	Statfjord	
FORMATION	FORMATION	Statfjord	
	FORMATION	Statfjord	
	FORMATION	Statfjord	
	FORMATION	Statfjord	
DIRECTIONAL SURVEYS	GR	api	150
	BS	in	26
	ROP	m/hr	0
	CALI	in	26



Sandstones with Claystone beds
 Sst: lt gry-m gry-cl-trmsl, occ mky Qtz, F-v crs, grd m-crs, ang-sbmd, pr-mod, srl, fr, lse, Tr sil cmt, loc Kao Mtrx, loc Tr Pyr, loc r Mic
 Sst: brn gry-dsky, yel brn, olv gry, lt gry-m gry-cl-trmsl Qtz, F-r m, ang-sbmd, mod, srl, sil cmt, loc Kao cmt, gen v arg, Tr carb, n, v, p
 Sst: m gry-dk gry-cl-trmsl Qtz, v-f, l, sbang-sbmd, mod, hd, arg, loc, grd Sls, loc Mic
 Clst: dk gry-gry, blk, brn, blk-olv, blk, biky, mod, hd, non calc, loc sil sly, r micromic
 Clst: brn gry-brn, blk, dsky, yel brn, biky, mod, hd, non calc, loc sil sly, l, P, v f sdy, Tr micromic, carb-v carb, loc, grd Coaly Sh

3319.0 - 3349.0 m
Claystones and Sandstones
 Clst: brn gry-olv gry, loc brn blk, biky, frm-mod, hd, non calc, r micromic
 Clst: mod brn, biky, mod, hd, gen non calc, loc sil calc
 Sst: v lt gry, m gry, cl-trmsl Qtz, J-crs, pred m, sbang-sbmd, Kao Mtrx, sil cmt, loc sil arg

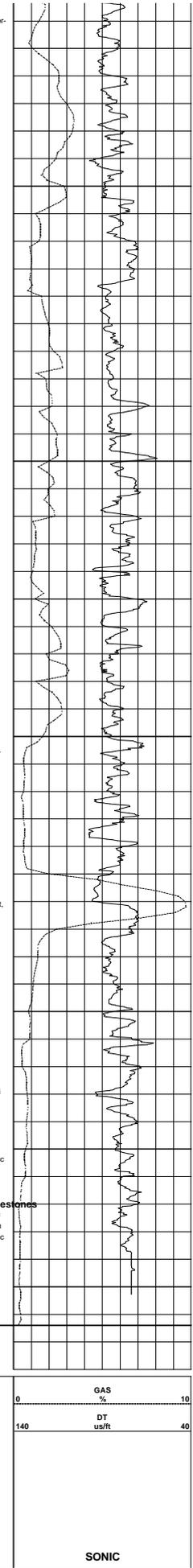
3349.0 - 3375.0 m
Sandstones with minor Claystones
 Sst: wh-v lt gry, m gry, loc pl yel brn, cl-trmsl Qtz, F-v crs, brn, pred f-m, ang-sbmd, pr-mod, srl, fr, lse, arg, loc Kao cmt, loc sil cmt, loc calc cmt, arg l, P, Tr Pyr, r carb
 Clst: m gry-m dk gry, olv gry, loc brn blk, biky, mod, hd, non calc
 Clst: mod brn, biky, frm-mod, hd, non calc

3376.0 - 3395.0 m
Claystones with minor Sandstones
 Clst: brn blk, olv, blk, biky, mod, hd, carb, loc v carb
 Sst: wh-v lt gry, lt gry, loc pl yel brn, F-v crs, pred m-crs, cl-trmsl Qtz, occ mky Qtz, loc calc cmt, abd Kao Mtrx, l, P, carb, r Pyr
 Sst: dk, yel brn, loc, olv gry, cl-trmsl Qtz, v-f, arg, loc v arg, grd Stit, loc sil calc, Mic, carb

3395.0 - 3404.0 m
Sandstones
 Sst: wh-v lt gry, lt gry, loc pl yel brn, F-v crs, pred m-crs, cl-trmsl Qtz, occ mky Qtz, r smky Qtz, loc calc cmt, abd Kao Mtrx, l, P, carb, r Pyr

3404.0 - 3432.0 m
Claystones with minor Sandstones, Trace of Limestones
 Clst: mod brn, loc dk, yel brn, frm-mod, hd, biky, gen non calc, loc sil calc
 Clst: dk gry-dk gry, olv gry, dk gry, frm-mod, hd, biky, occ carb lam
 Sst: wh-v lt gry, lt gry, loc pl yel brn, F-v crs, pred m-crs, cl-trmsl Qtz, occ mky Qtz, r Smky Qtz, loc calc cmt, abd Kao Mtrx, l, P, carb, r Pyr
 Lst: wh-v lt gry, yel gry, biky, frm, l, P, v f sdy

TD at 3432 m MD / 3378 m TVD RKB



STRATIGRAPHY	GAMMA	RESISTIVITY	NEUTRON/DENSITY	DESCRIPTION	SONIC
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