

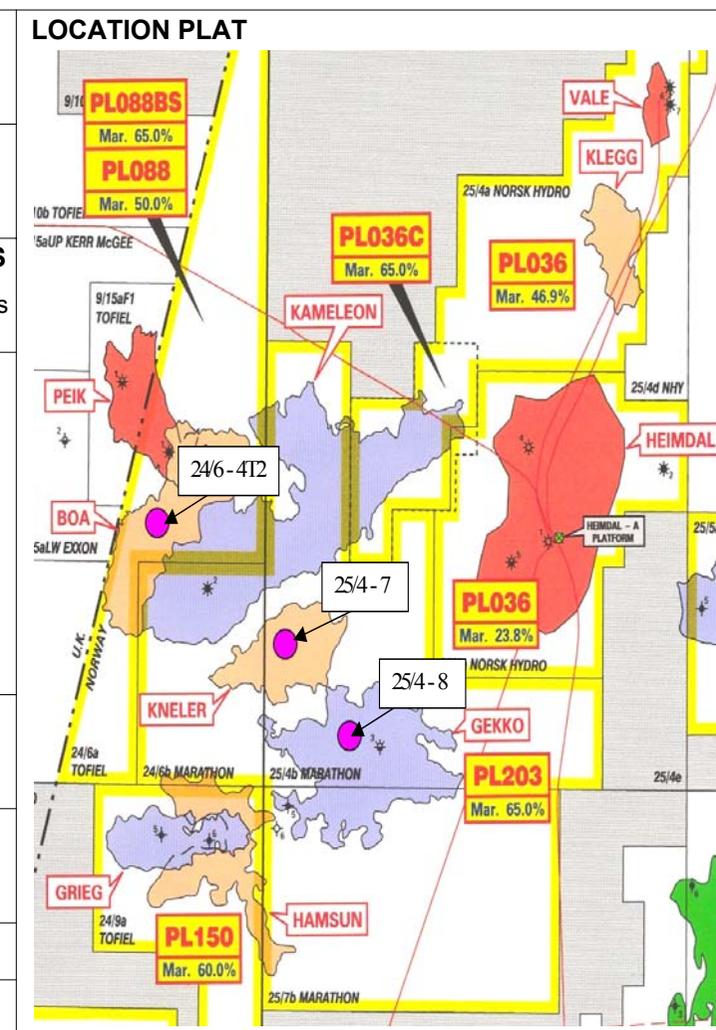


# MARATHON PETROLEUM COMPANY (NORWAY)

## 25/4-8

### COMPLETION LOG

<b>LOCATION</b> 59° 30' 52.3698" N 002° 03' 47.1091" E UTM: ED50, Zone 31, CM 3°E 446,975.89m E 6,597,876.24m N	<b>WELL CLASSIFICATION</b> <b>Exploration</b>		<b>RIG</b> <b>Deepsea Bergen</b>	
	<b>TOTAL DEPTH</b> 2286m	<b>TVD</b> 2262.9m TVDSS	<b>DRILLER</b>	<b>BOTTOM HOLE FORMATION</b> Upper Paleocene - Rogaland Group Heimdal Formation
2285m	2261.9m TVDSS	<b>LOGGER</b>		
<b>TD</b> 59° 30' 52.6768" N 002° 03' 47.6775" E 446,975.89m E 6,597,885.61m N	<b>SPUD DATE</b> 19:48, 3 June 2003		<b>T.D. DATE</b> 08:40, 15 June 2003	<b>COMPLETION DATE</b> 15:00, 20 June 2003
				<b>COMPLETION STATUS</b> P & A, Oil and Gas Shows
<b>WATER DEPTH</b> 122.4m	<b>COUNTRY</b> Norway		<b>COMMENTS</b>	
<b>DRILL FLOOR ELEVATION</b> 23m	<b>REGION</b> North Sea - West of Heimdal			
<b>CASING RECORD</b> 30"/20" Conductor at 206.7m 13-3/8" casing at 795.8m, LOT 1.45sg	<b>CONCESSION</b> PL203			
	<b>FIELD</b> Gekko		<b>TESTING CONTRACTOR</b>	
<b>ENGINEERS</b> Mirren Gerega Steve Clarke Atle Mikkelsen Frode Lefdal	<b>MUD LOGGING</b> Halliburton	<b>MUD ENGINEERING</b> Baker Hughes	<b>DRILLING CONTRACTOR</b> Odfjell Drilling	
<b>GEOLOGISTS</b> Sigvart Bjerkenes Anders Knape	<b>WIRELINE LOGGING</b> Schlumberger	<b>CEMENTING</b> Halliburton	<b>AUTHOR</b> A. Knape/S. Bjerkenes (Aker)	<b>APPROVAL</b> Jeffrey Brehm
			<b>REVISED</b> Phil Leighton	



OPENHOLE & EVALUATION										HOLE RECORD			
RUN	DATE	BIT SIZE	COMBINATION RUN	DEPTH INTERVAL	DRILLERS DEPTH	REMARKS	MAX T °F /TSCS (hrs)	Resistivities			HOLE SIZE	DEPTH INTERVAL	MUD TYPE
								Rm	Rmf	Rmc			
1A	15/06/03	8 1/2"	PEX-DSI-HNGS-AIT	2285m - 1700m	2286m	GR &DSI to surface.	63°/9.83				36"	145.4m - 207m	Sea water
1A	16/06/03	8 1/2"	MDT-GR	2182m - 2092m	2286m		68.4°/36.5				17 1/2"	207m - 803m	Sea water
1A	17/06/03	8 1/2"	VSI-GR	2220m - 632m	2286m						12 1/4"	803m - 2082m	Carbosea OBM
											8 1/2"	2082m - 2286m	Carbosea OBM

CORING RECORD				
CORE NO	DEPTH INTERVAL	CUT	REC	REC%

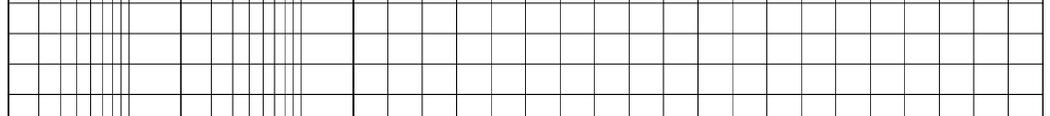
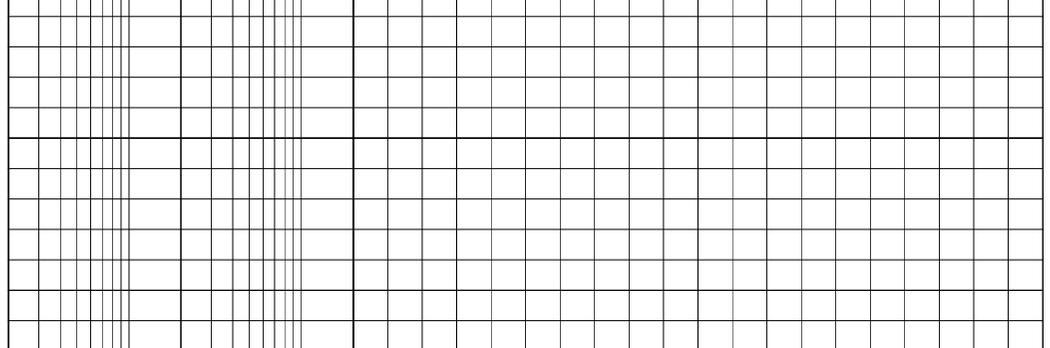
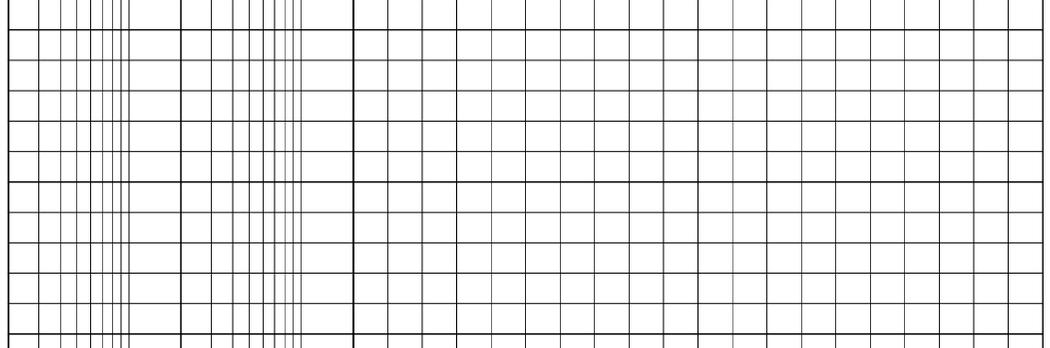
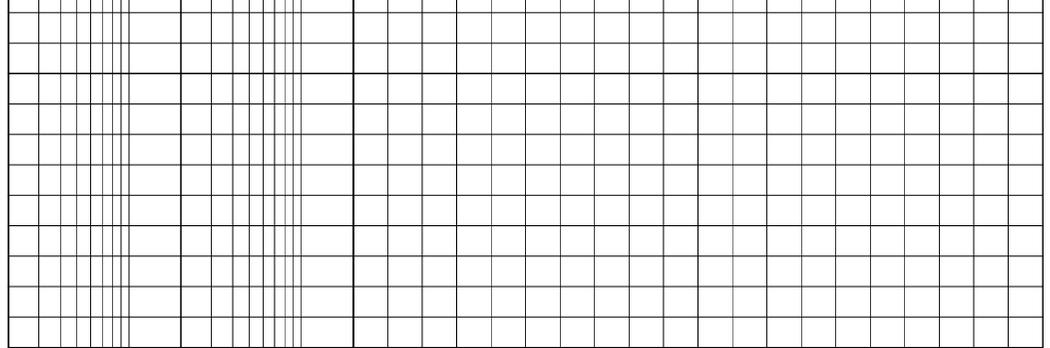
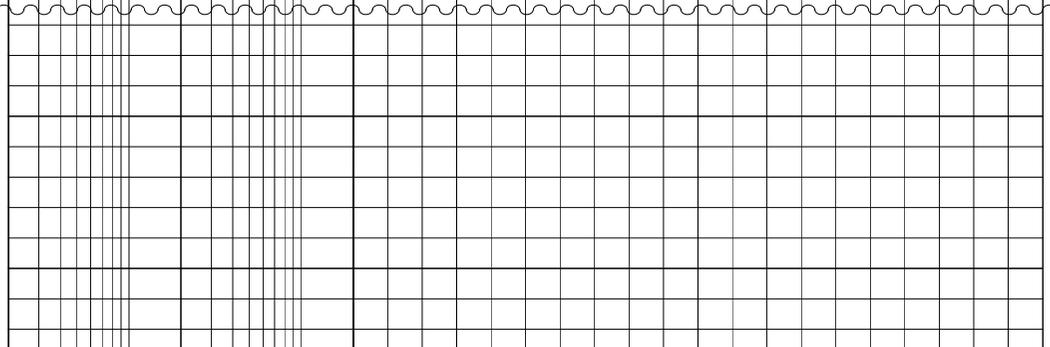
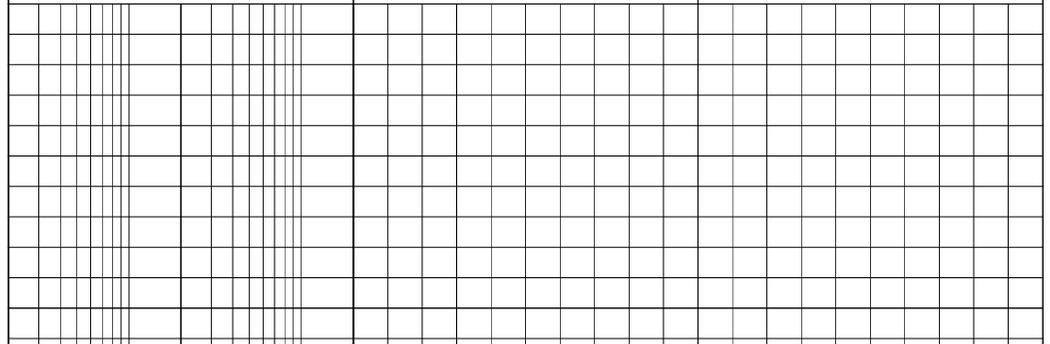
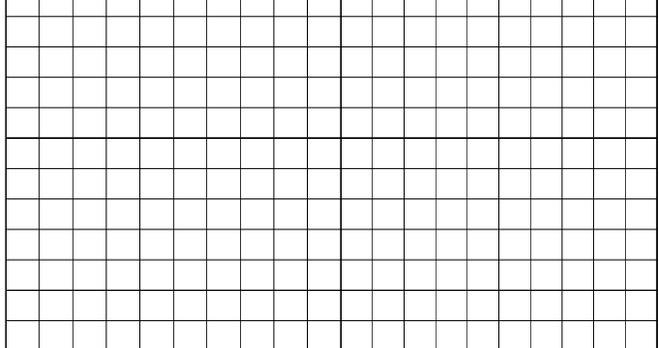
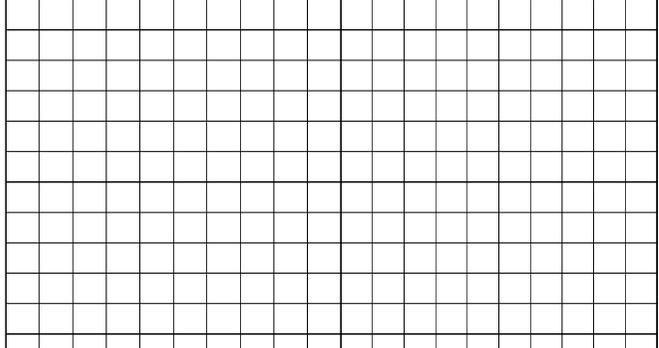
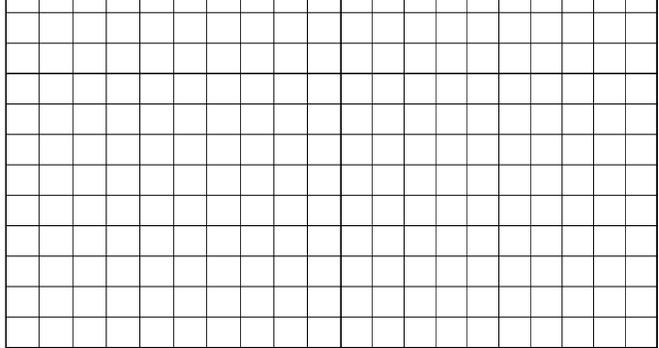
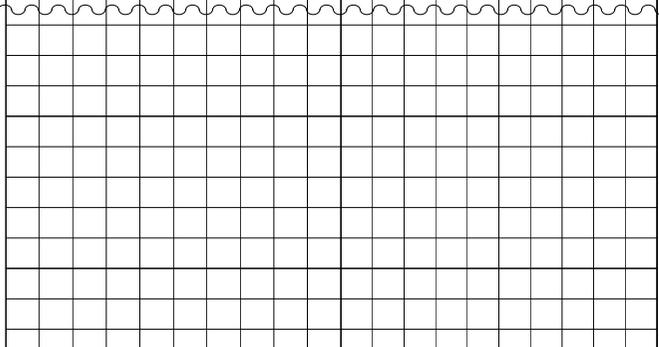
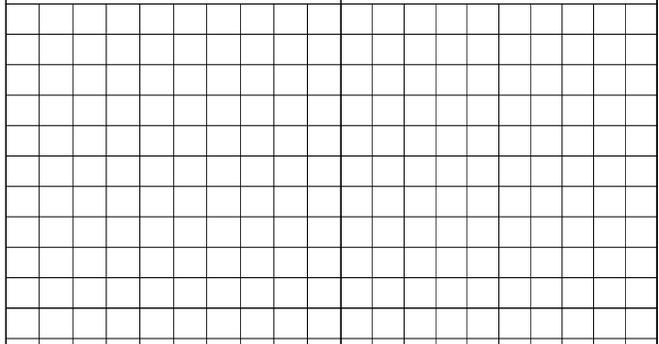


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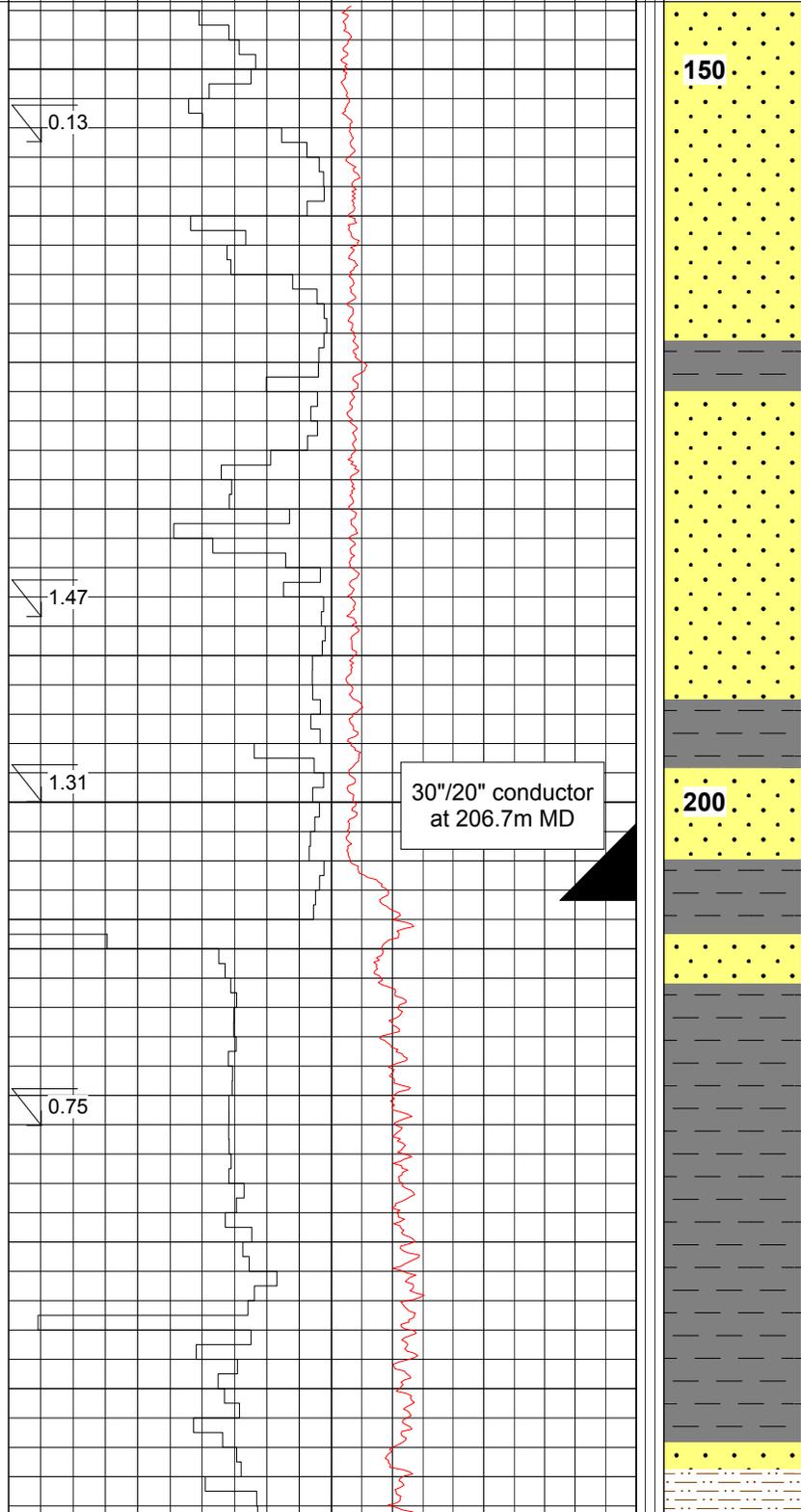
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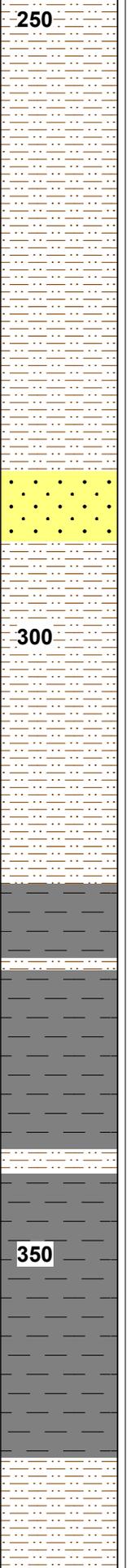
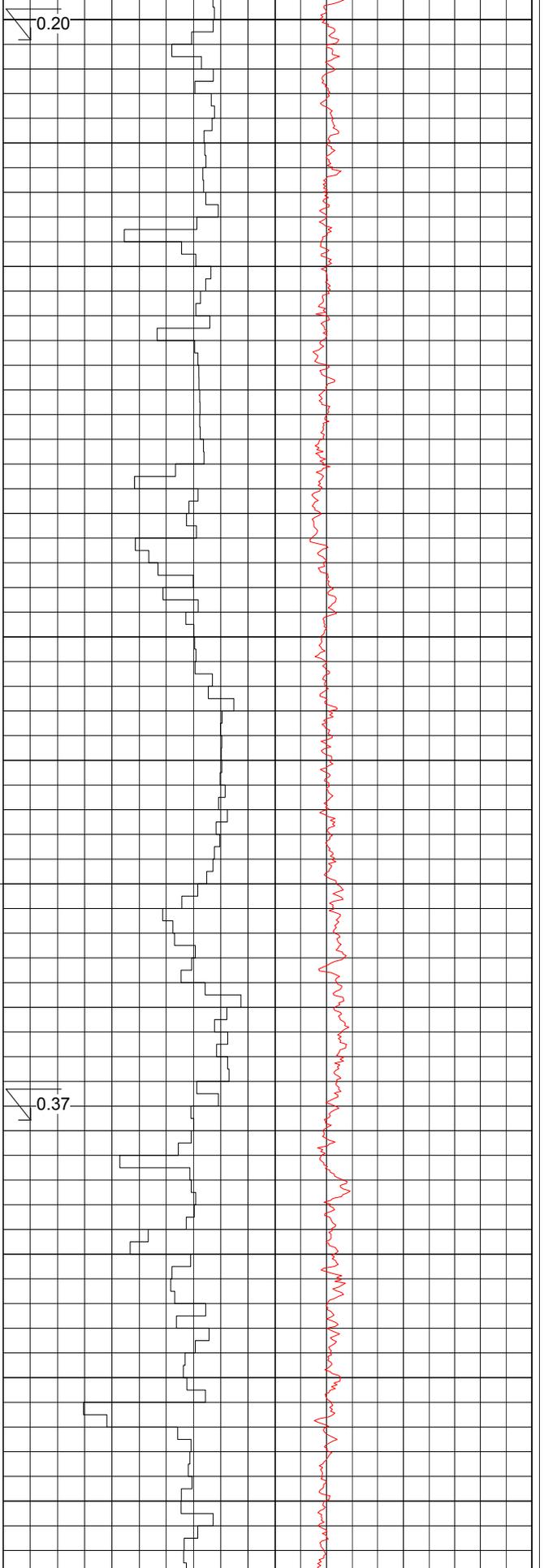
QUATERNARY  
PLEISTOCENE



Drilled with returns to seabed to 803m. Lithology interpretation based on MWD GR and drilling parameters.

TERTIARY QUATERNARY  
PLEISTOCENE

PLIOCENE

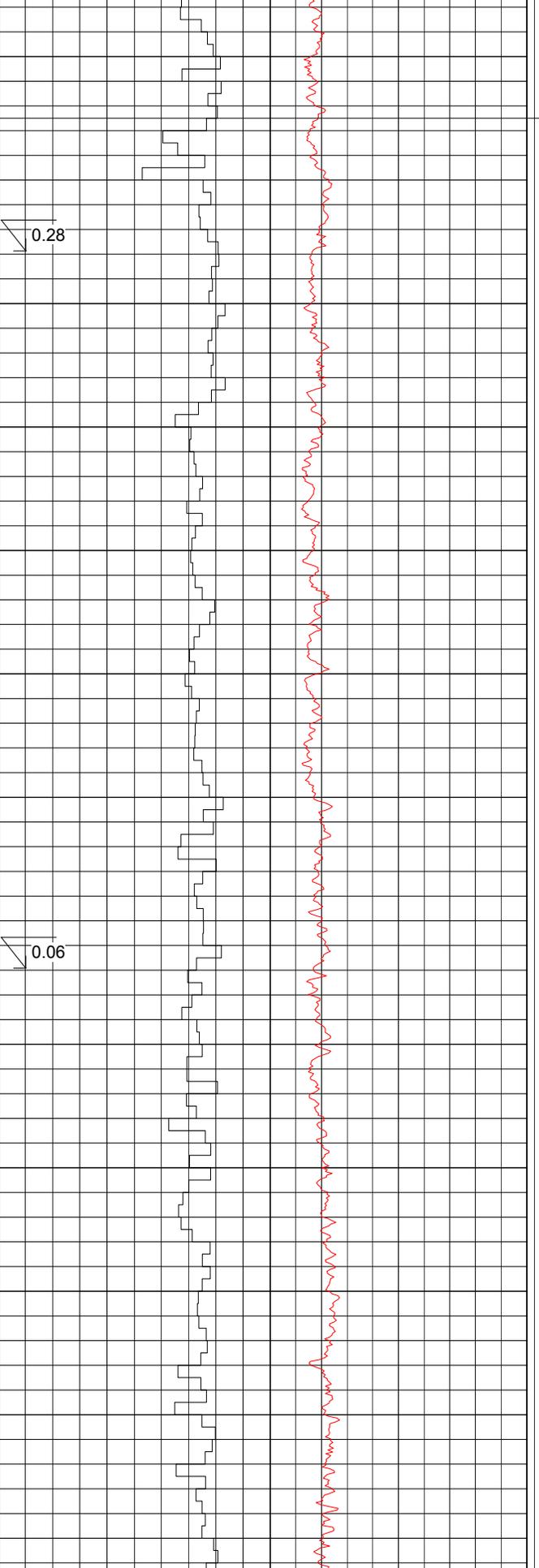


MIocene  
NORdLAND  
UTSIRA

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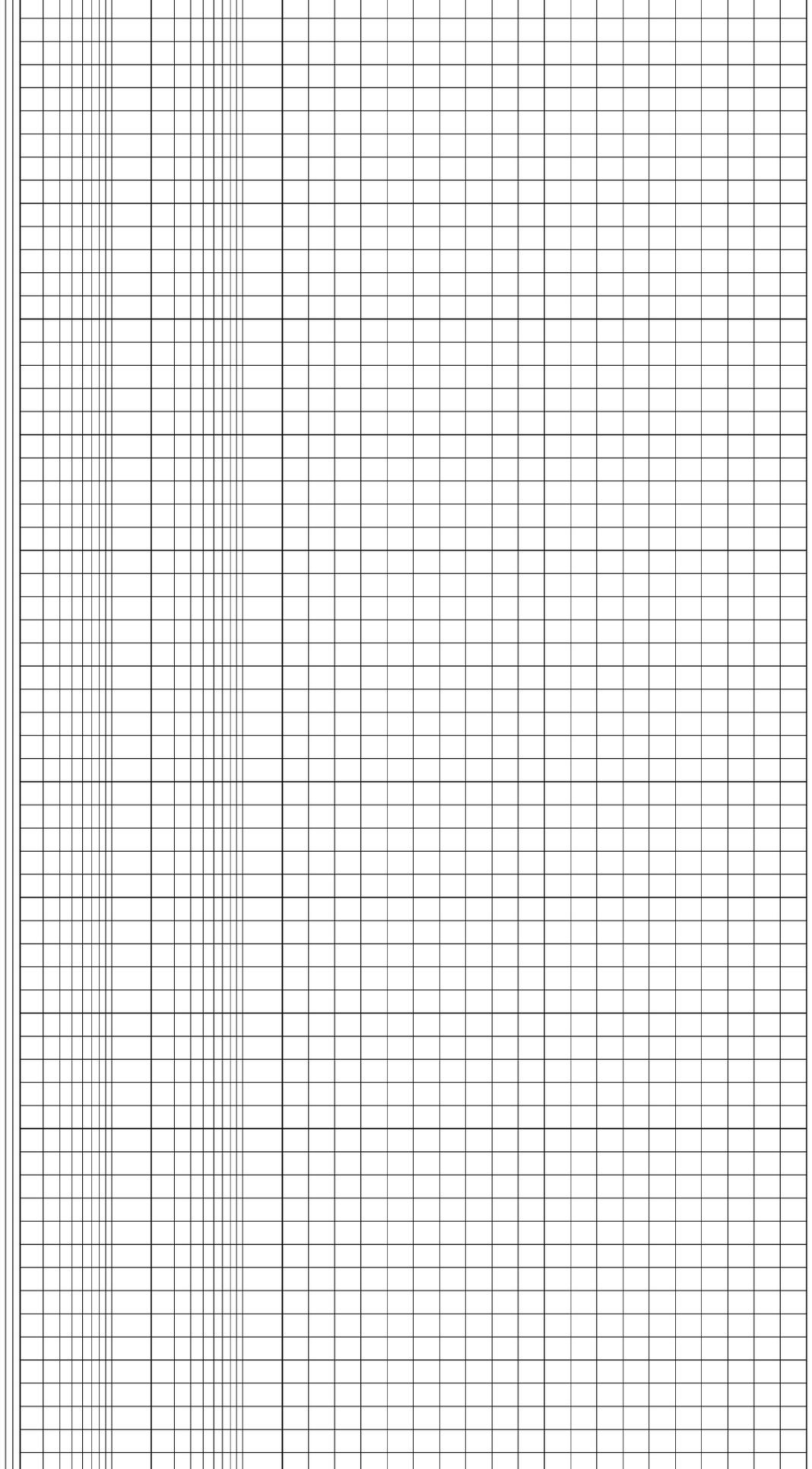
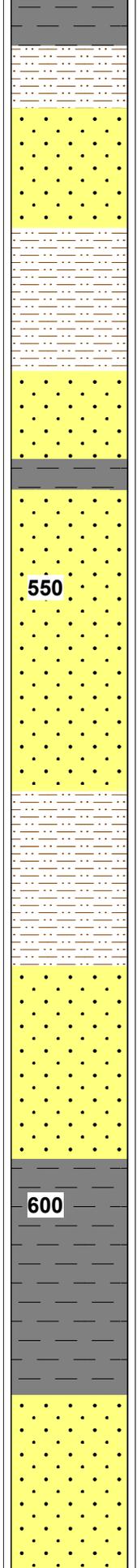
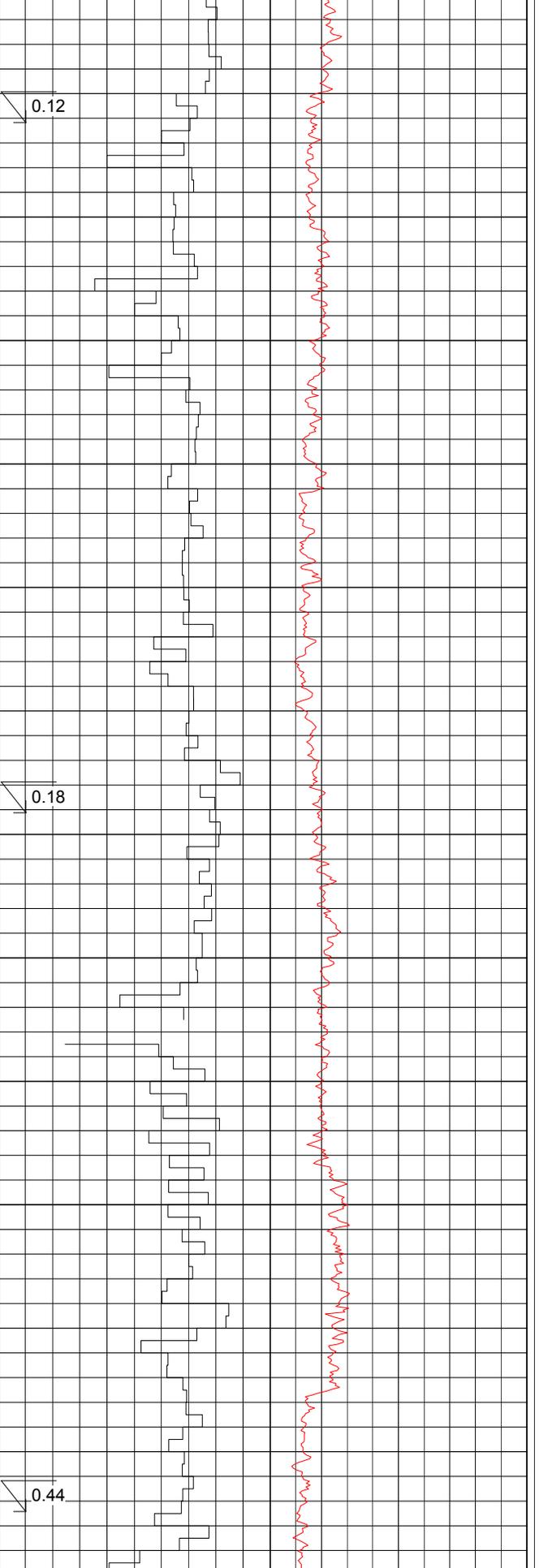
ERTIARY  
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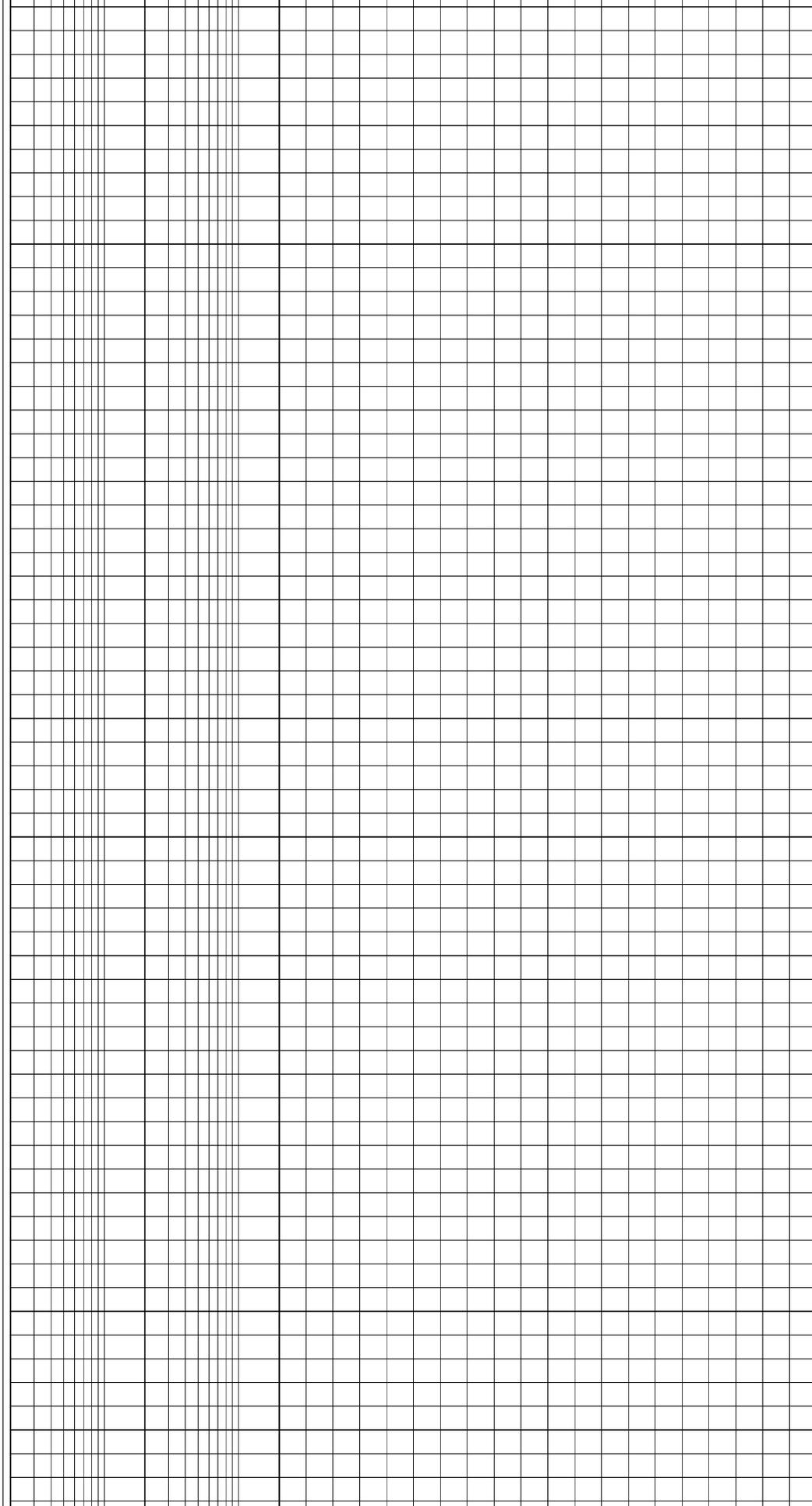
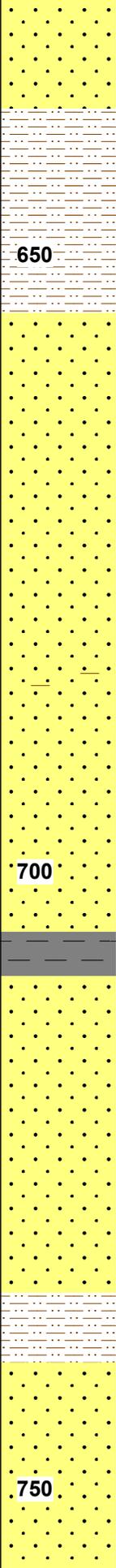
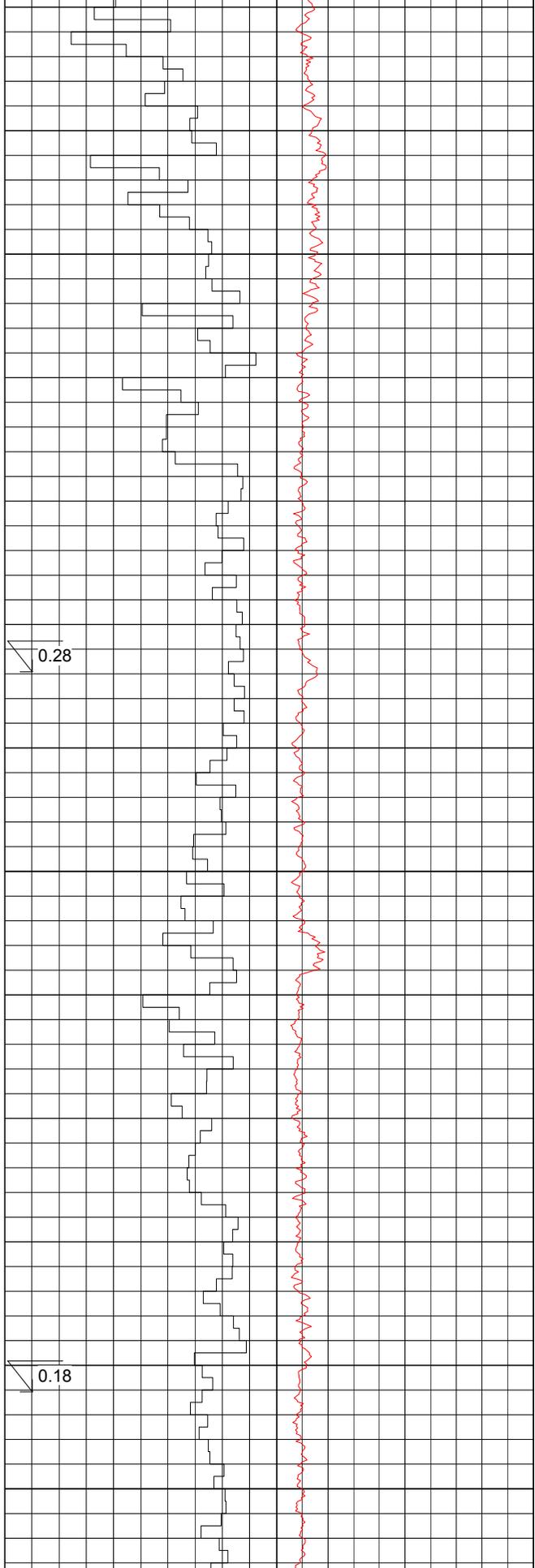
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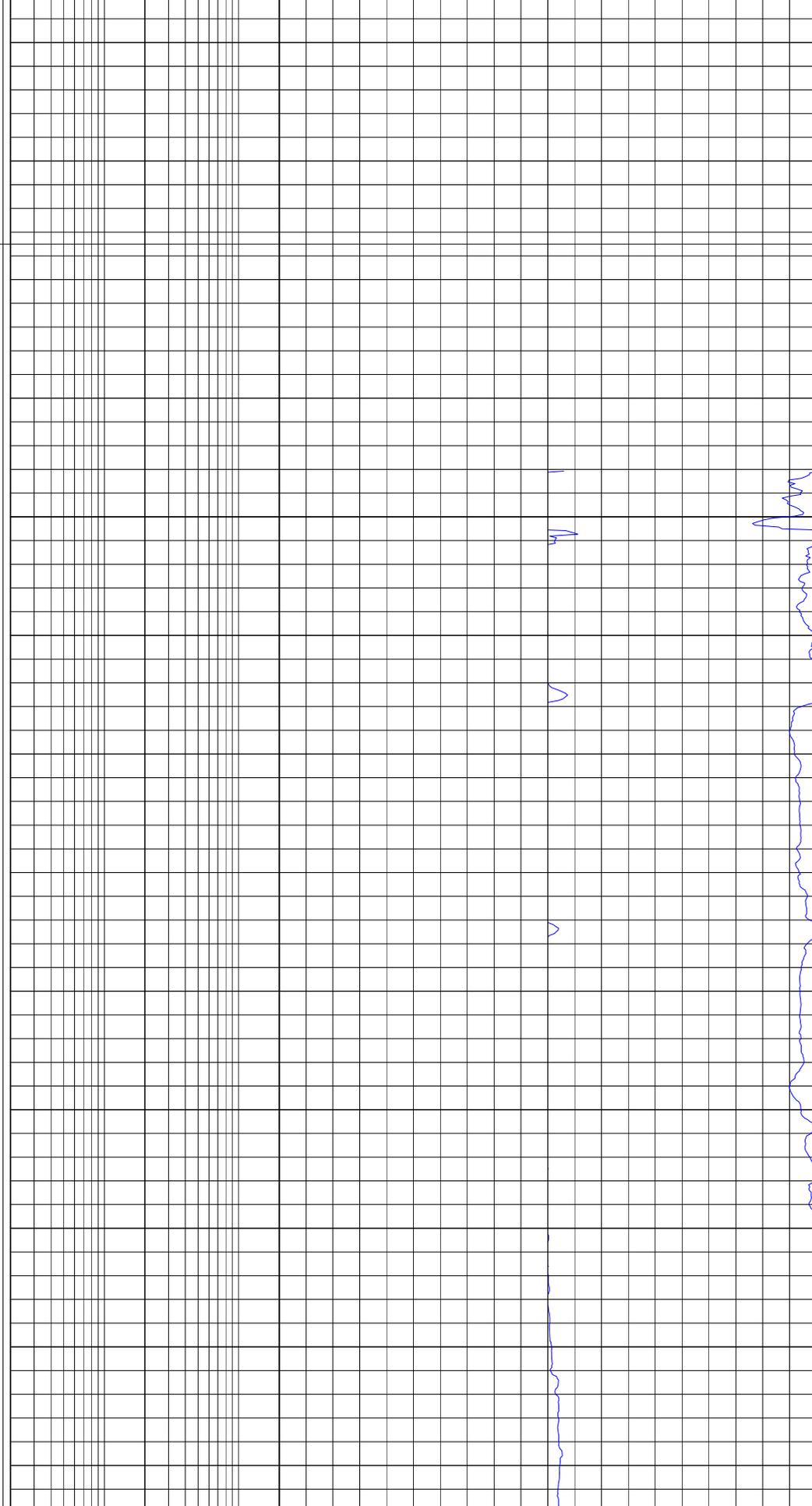
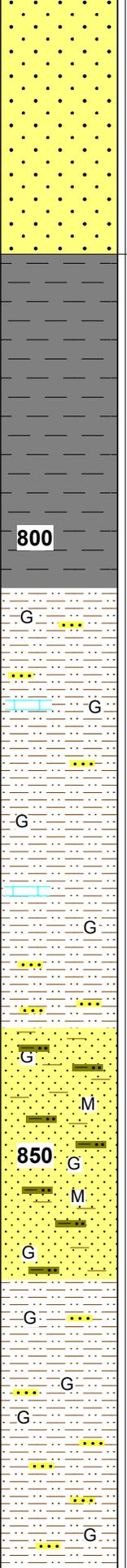
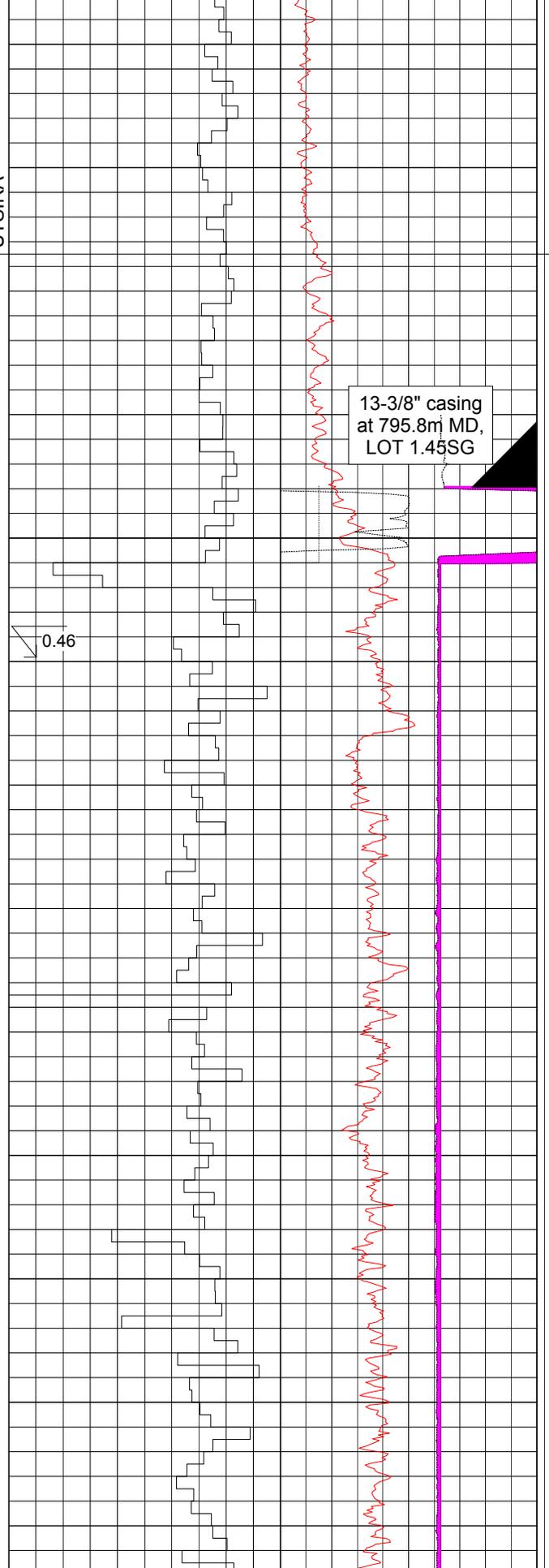
Utsira  
385.0m MD / -362.0m TVDSS

TM  
M  
NC  
U





TERTIARY  
 LATE Oligocene MIOCENE  
 HORDALAND GROUP NORDLAND  
 UTSIRA



**Base Utsira  
 777.0m MD / -753.9m TVDSS**

Siltstone: olive black, blocky, soft, argillaceous, locally very fine sand grading to silty Sandstone, good trace glauconite, trace mica, moderately calcareous.

Limestone stringers: mudstone, pale to dark yellowish brown, minor dusky yellowish brown, very hard, cryptocrystalline, nil visible porosity.

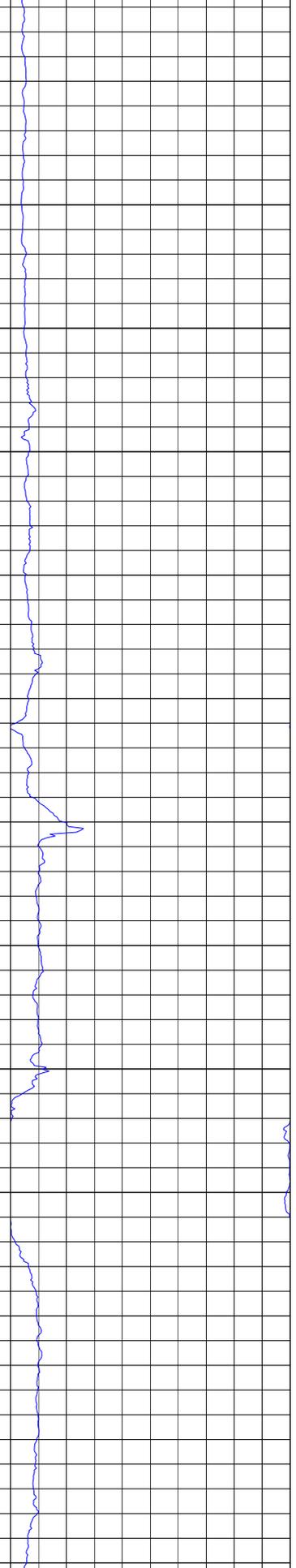
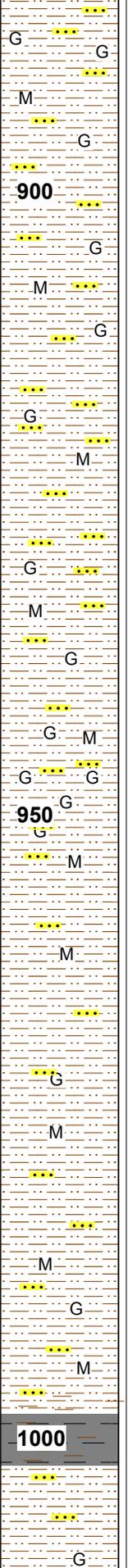
Sandstone: dark grey to brown grey, greenish black, aggregates with clear Quartz, silty to predominantly very fine, locally very silty grading sandy Siltstone, moderately to well sorted, abundant argillaceous matrix, good trace glauconite, trace mica, slightly to moderately calcareous, poor to fair visible porosity. No shows.

Sandy Siltstone: dark grey to brown grey, greenish black, abundant argillaceous matrix, sandy, locally grading silty Sandstone, traces glauconite and mica, slightly to moderately calcareous.

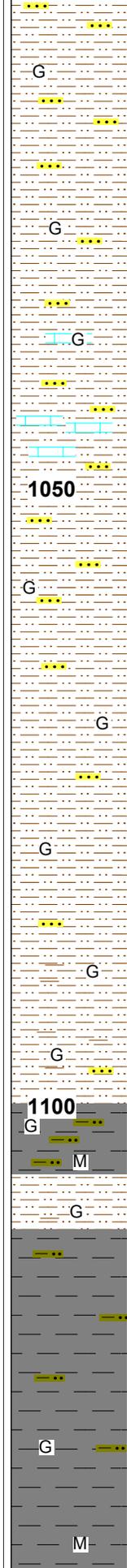
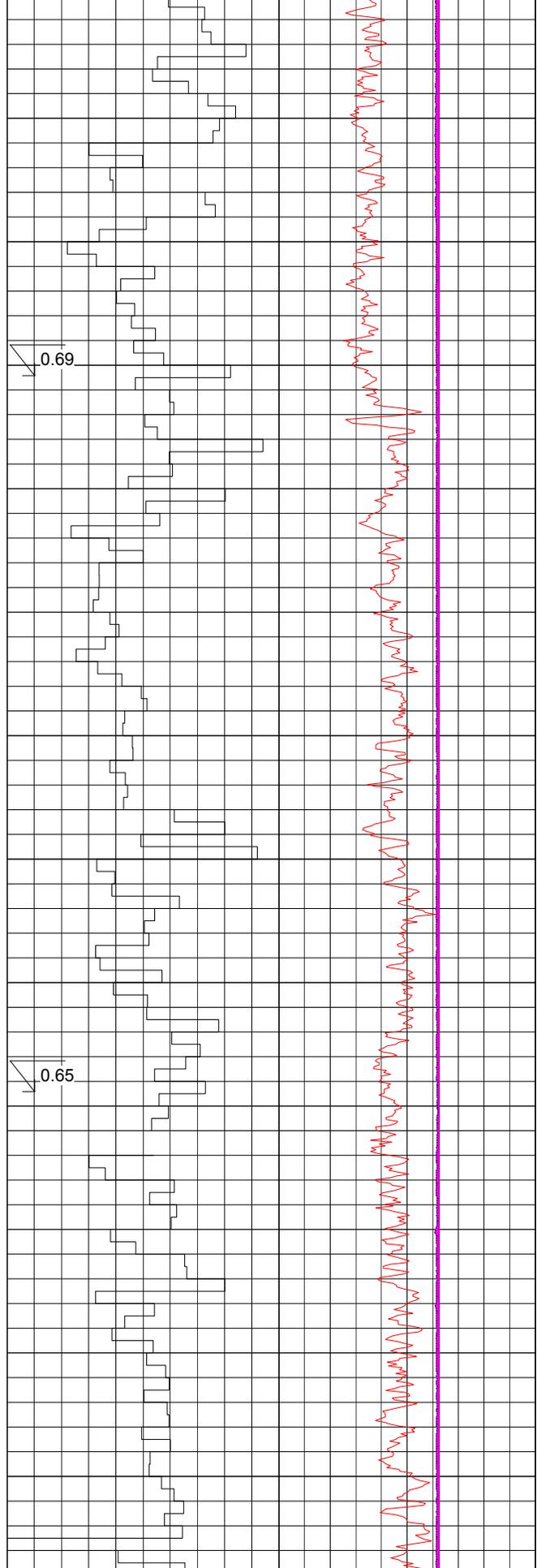
TERTIARY  
EARLY TO LATE OLIGOCENE  
HORDALAND GROUP

0.45

0.58



Sandy Siltstone: locally very abundant glauconite.



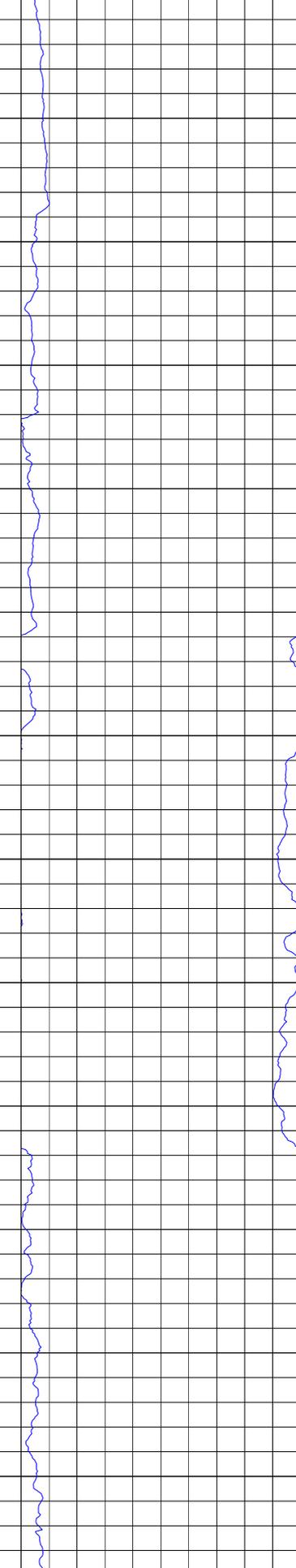
Sandy Siltstone: dark grey to brown grey, greenish black, abundant argillaceous matrix, locally grading silty Sandstone, traces glauconite and mica, slightly to moderately calcareous.

Limestone stringers: mudstone, pale yellowish brown, moderately hard, microcrystalline to micritic, argillaceous, nil visible porosity. No shows.

Siltstone: predominantly brown grey to green grey, moderately hard, amorphous to blocky, sandy, abundantly glauconitic, non to slightly calcareous.

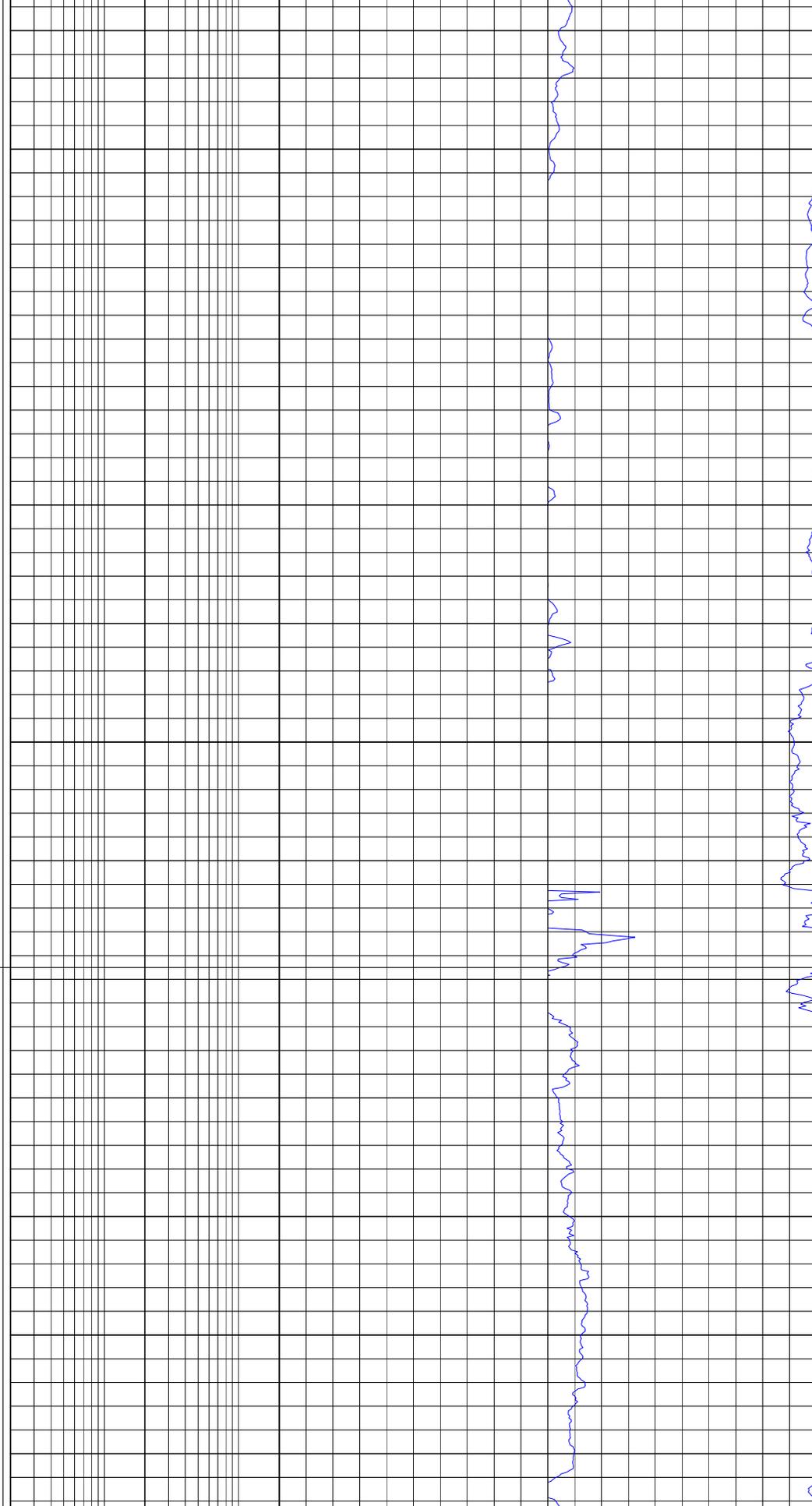
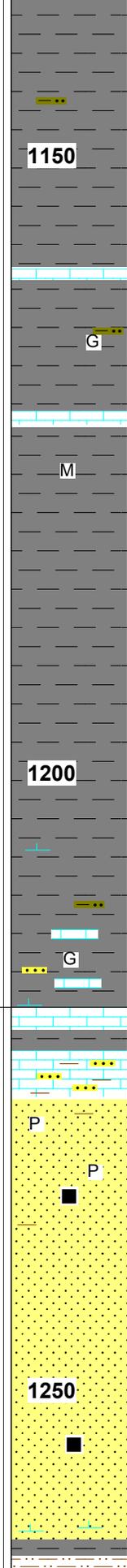
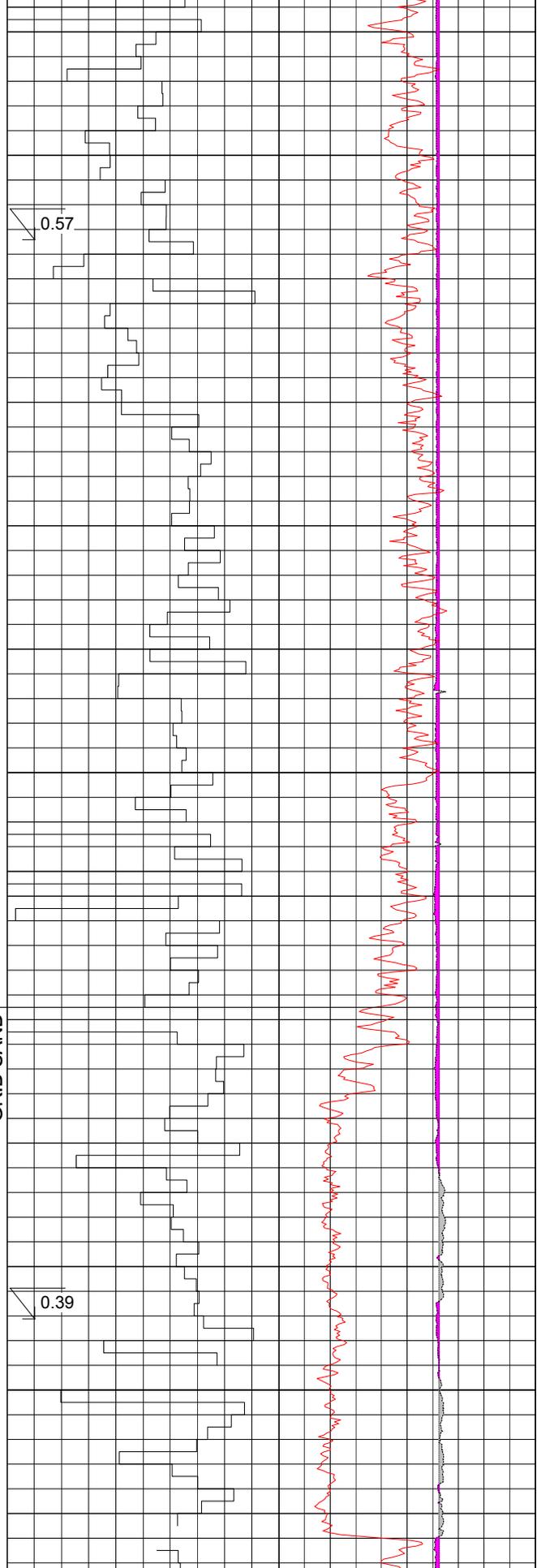
Siltstone: locally very argillaceous grading to silty Claystone.

Claystone: dark yellowish brown to dusky yellowish brown, moderately hard, blocky to rarely amorphous, micromicaceous, rarely glauconitic, moderately calcareous.



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GRID SAND



Limestone: mudstone, pale yellowish brown, moderately hard, microcrystalline, slightly silty, no visible porosity. No shows.

Claystone: partly light olive grey to olive grey, moderately hard, blocky, very silty, micromicaceous, non calcareous.

Claystone: dark grey to greenish black, firm, subblocky to platy, slightly silty, rarely micromicaceous and Pyritic, non to very slightly calcareous.

Trace Limestone: mudstone, light olive grey to light greenish grey to light grey, firm to hard, locally very fine sand grading to very calcareous cemented Sandstone, rare Glauconite, no visible porosity. No shows..

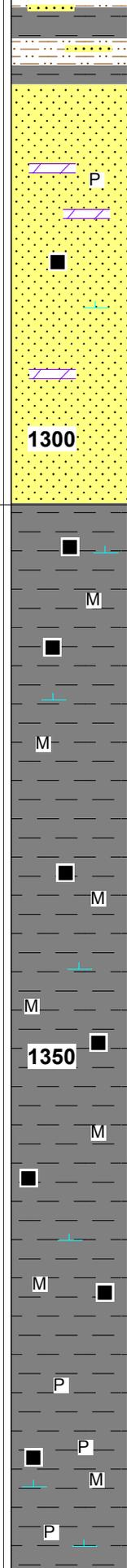
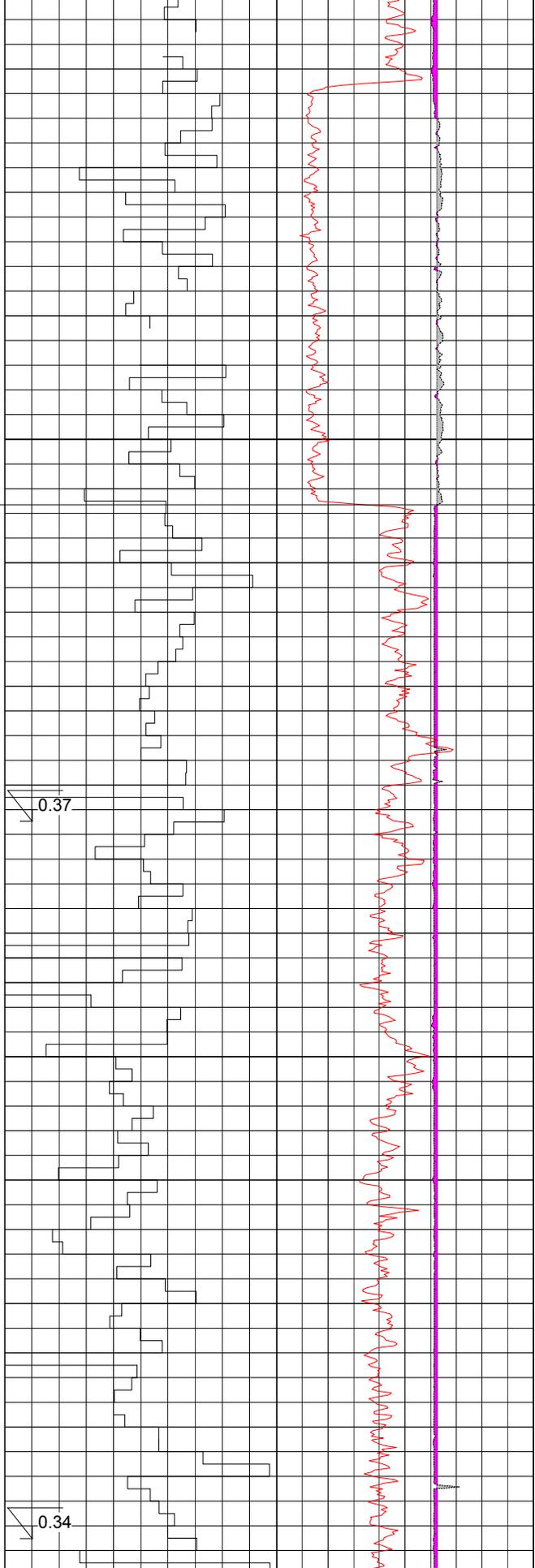
**Grid Sand**  
**1219.0m MD / -1196.0m TVDSS**

Limestone: mudstone, varicoloured, firm, cryptocrystalline, locally slightly argillaceous and with very fine sand, rare Glauconite, rare Pyrite, no visible porosity. No shows.

Sandstone: rare aggregates, medium grey to olive grey, predominantly loose grains with clear to translucent Quartz, very fine to fine, predominantly fine to medium, subangular to subrounded, well sorted, rare argillaceous matrix, trace Pyrite, rare carbonaceous material, poor to fair visible porosity. No shows.

Claystone: dark grey to olive black, firm, subblocky to platy, silty grading to argillaceous Siltstone, disseminated micropyrrite and micromicaceous.

GRID SAND



disseminated micropyrite and micromica, rare carbonaceous material, rare Glauconite, non to very slightly calcareous.

Rare Dolomite: moderate dark yellowish brown, firm, cryptocrystalline, argillaceous, no visible porosity. No shows

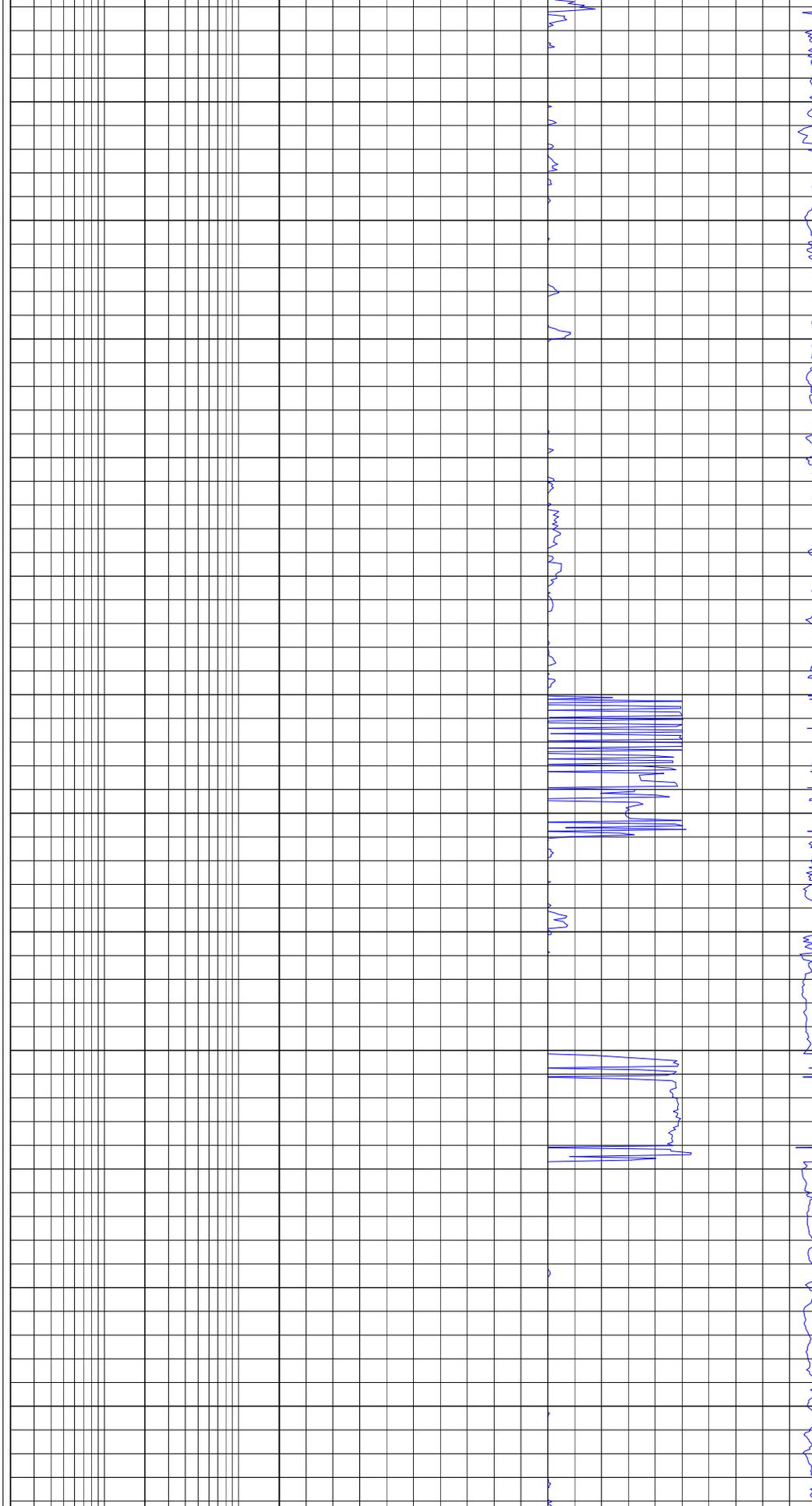
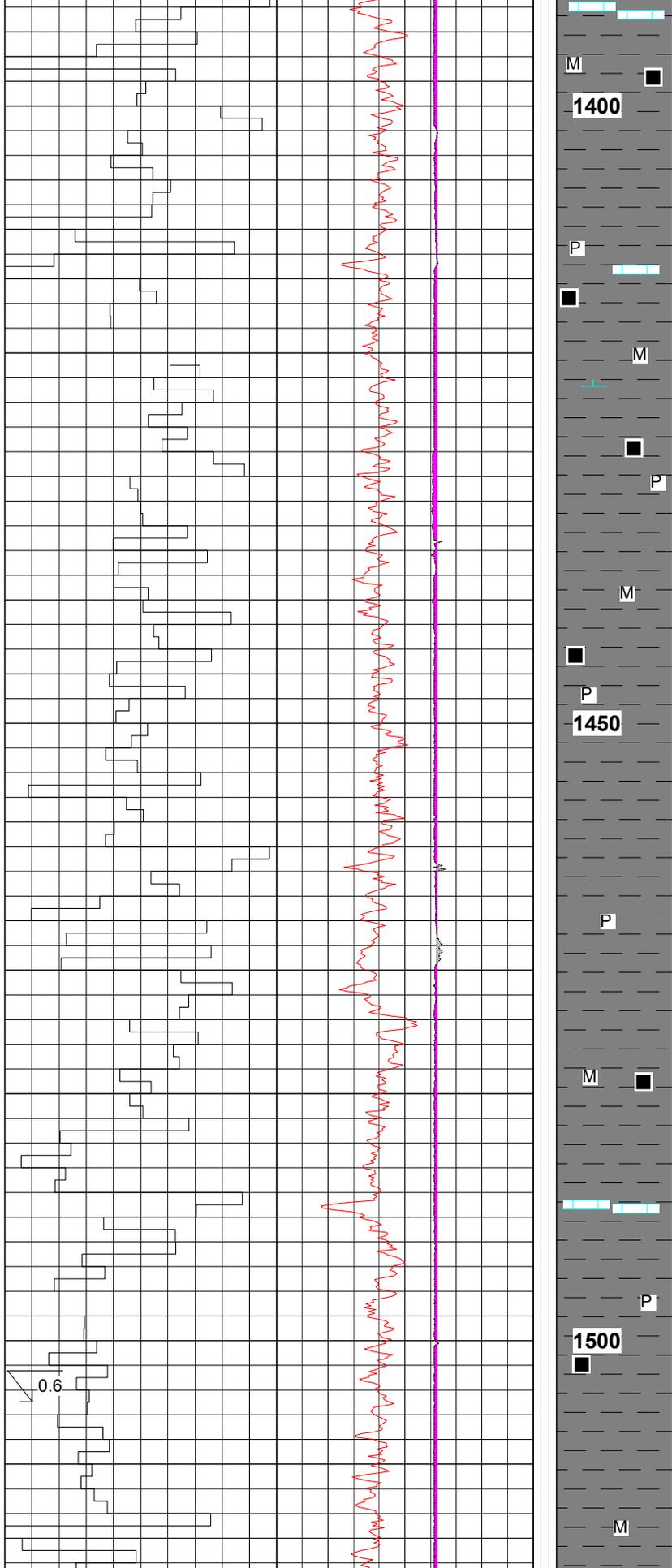
**Base Grid Sand**  
**1305.3m MD / -1282.0m TVDSS**

Claystone: olive black, firm, subblocky to subplaty, rare micromicas, rare carbonaceous material, non to very slightly calcareous.

Claystone: generally as above, but also minor greenish black, locally trace disseminated micropyrite.

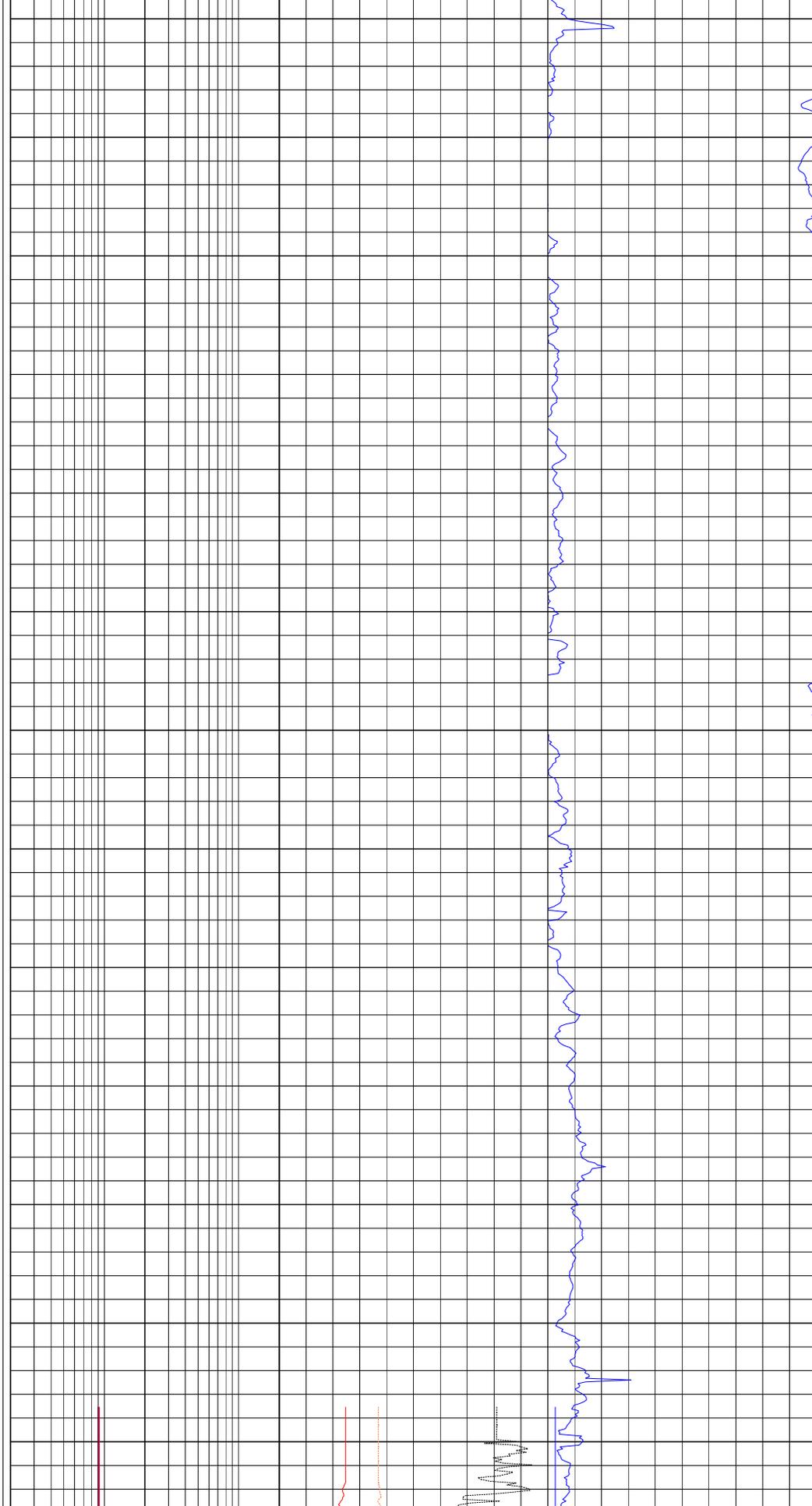
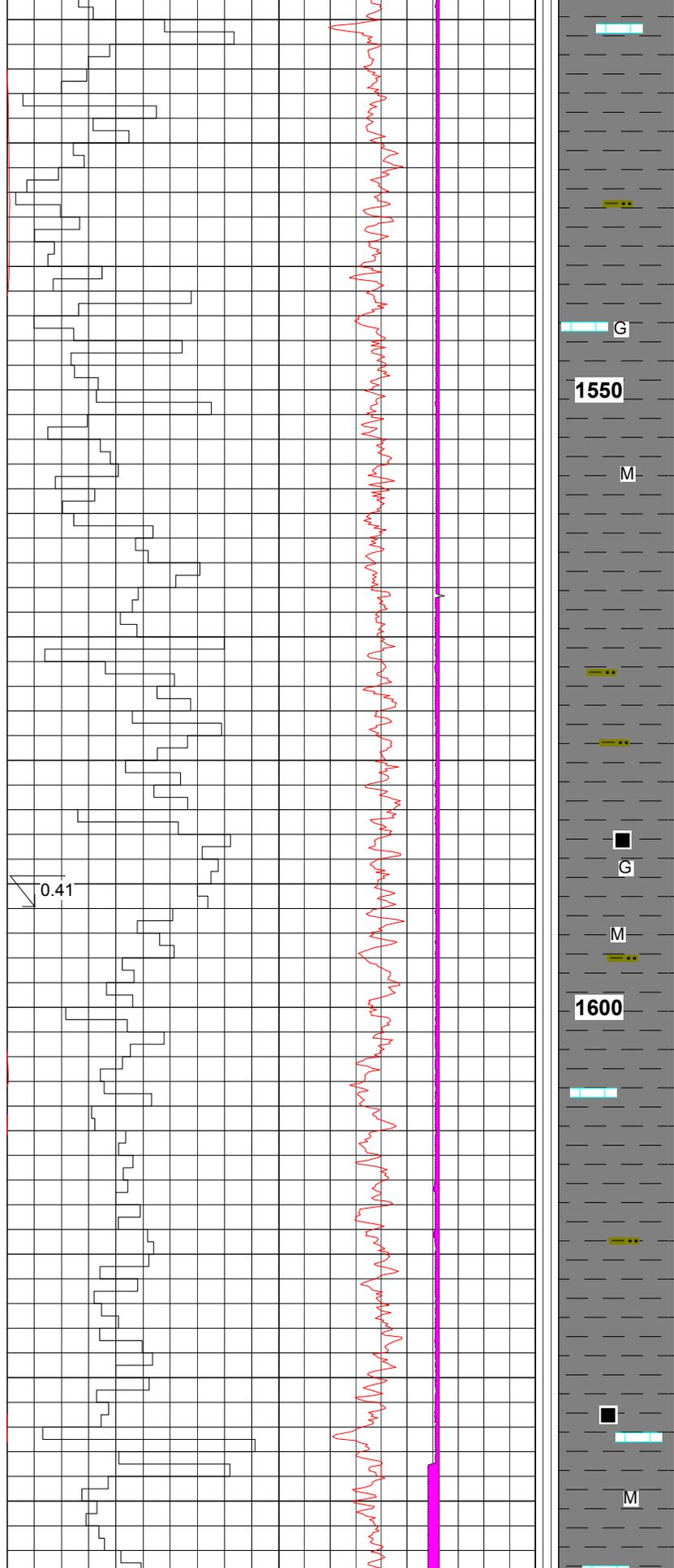
Limstone: mudstone. pale to dark yellowish brown.

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HORDALAND GROUP



firm, cryptocrystalline, slightly argillaceous, no visible porosity. No shows.

Claystone: olive black, firm, subblocky to subplaty, rare micromicas, rare carbonaceous material, non to very slightly calcareous.

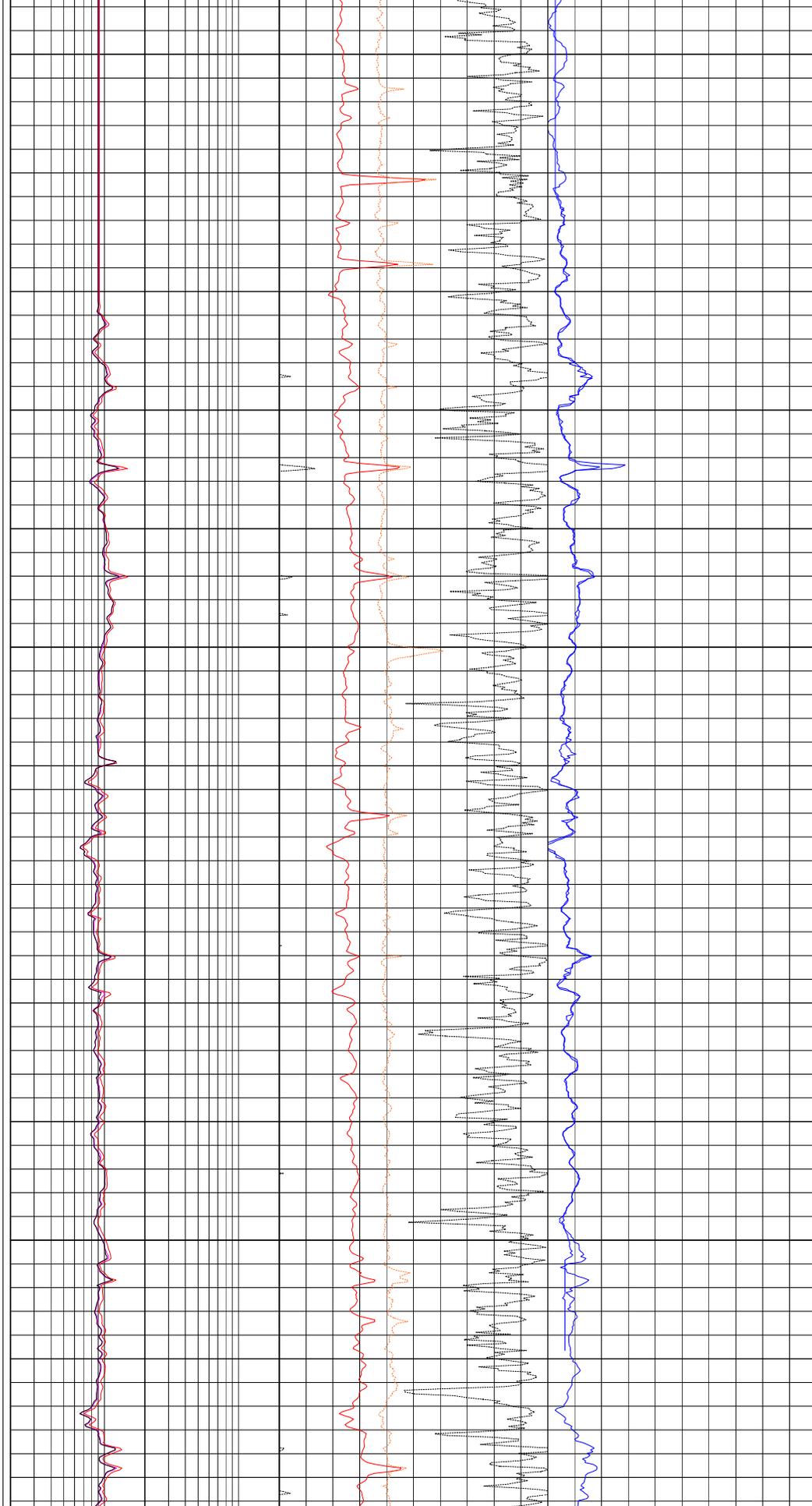
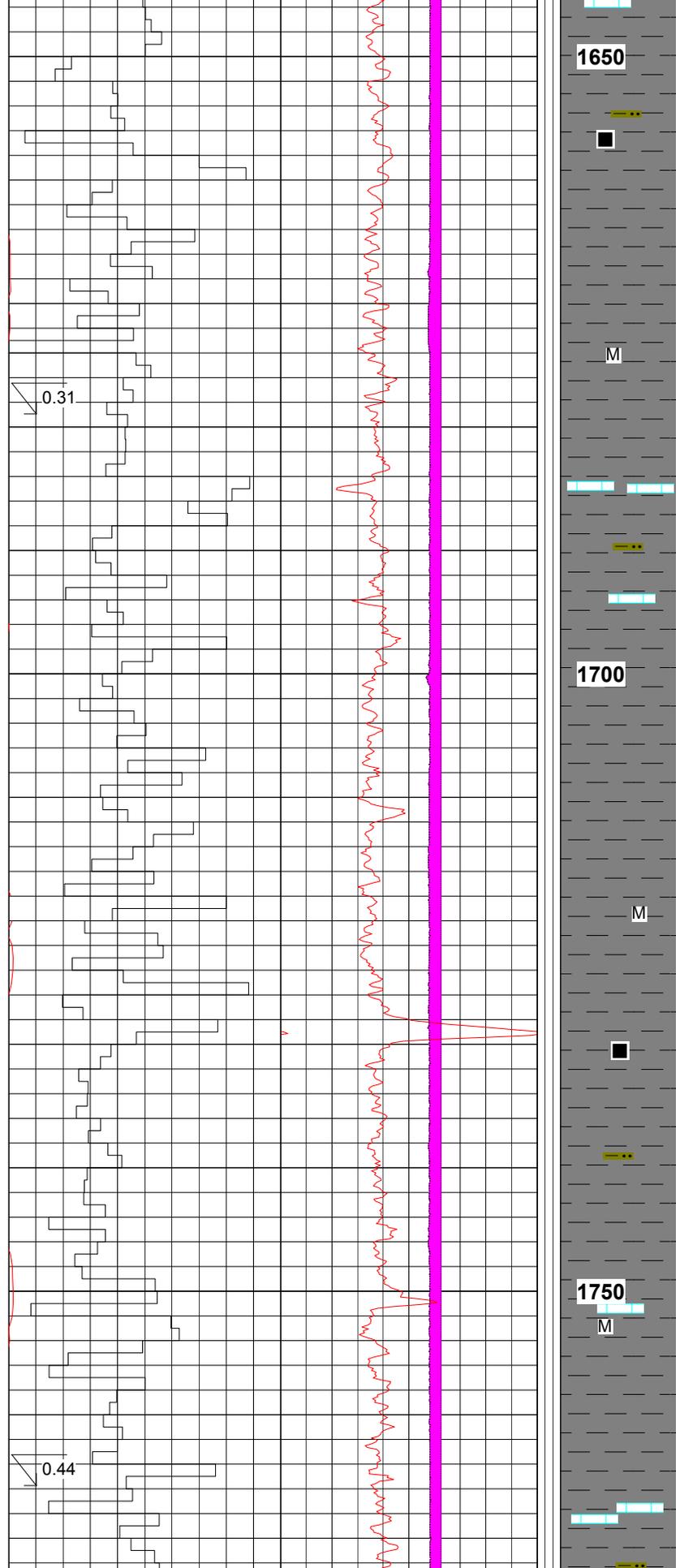


Limestone stringers: mudstone, yellowish grey, moderately hard, cryptocrystalline, argillaceous in part, locally micritic, no visible porosity. No shows.

Claystone: mainly dark greenish grey, also dark olive grey, firm, subblocky to subplaty, rare carbonaceous material, non to very slightly calcareous.

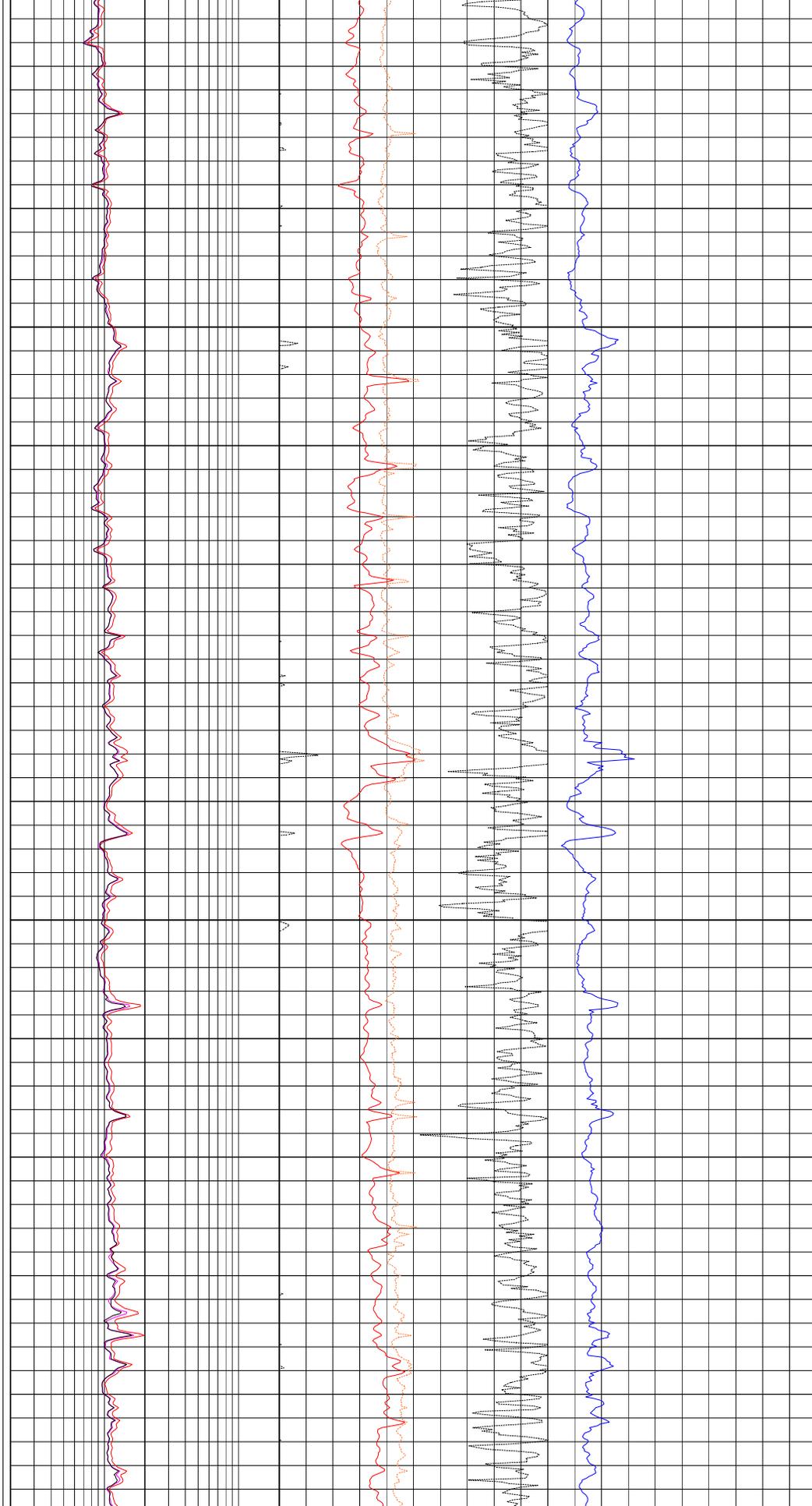
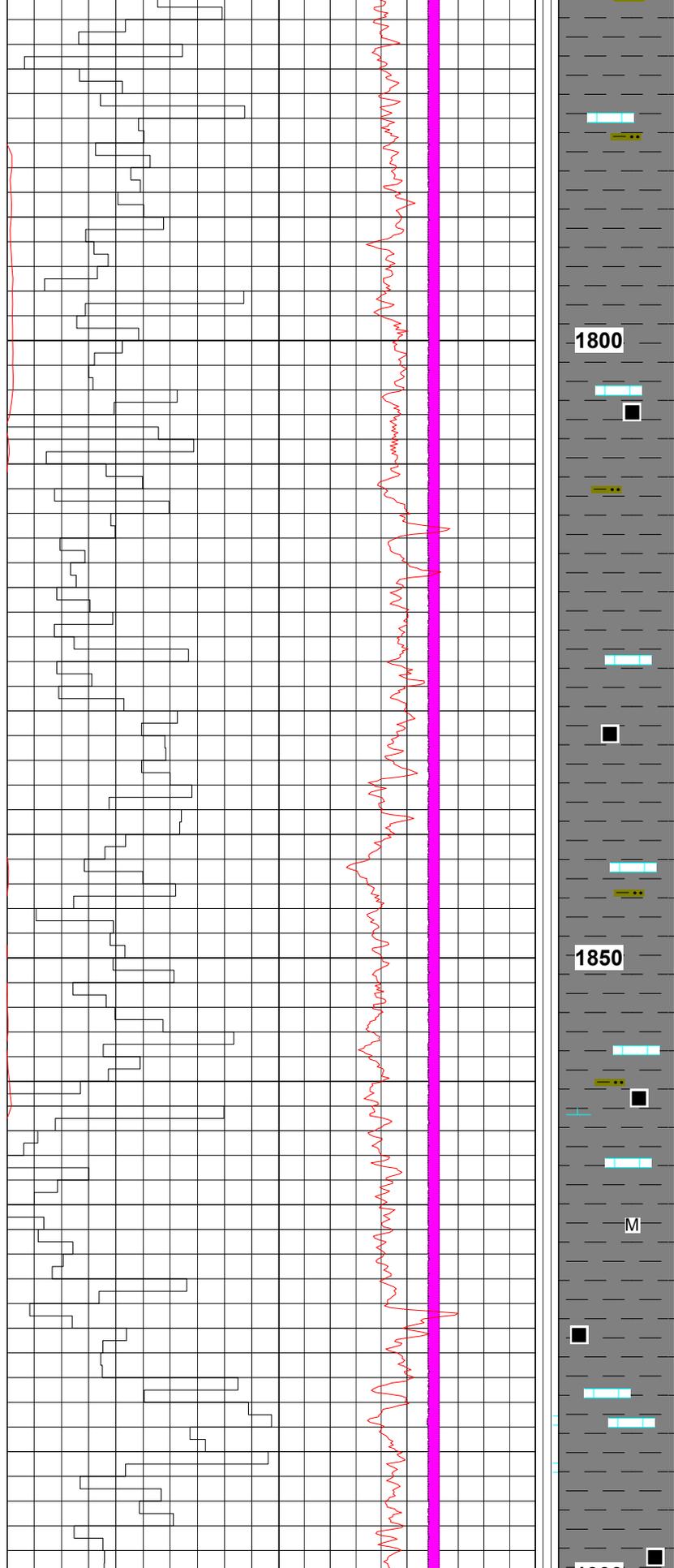
Limestone stringers: mudstone, yellowish grey, moderately hard, cryptocrystalline, argillaceous in part, locally micritic, no visible porosity. No shows.

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Claystone: alternating dark greenish grey and dark olive grey, firm, subblocky to subplaty, rare carbonaceous material, non to very slightly calcareous.

Limestone stringers: mudstone, yellowish grey, moderately hard, cryptocrystalline, argillaceous in part, micritic in part, no visible porosity. No shows.



Claystone: greenish black, firm, subblocky to subplaty, rare carbonaceous material, slightly to locally moderately calcareous.

Limestone: mudstone, olive grey to light olive grey, also dusky to pale yellowish brown, minor very light grey to yellowish orange, firm, cryptocrystalline, slightly argillaceous, no visible porosity. No shows.

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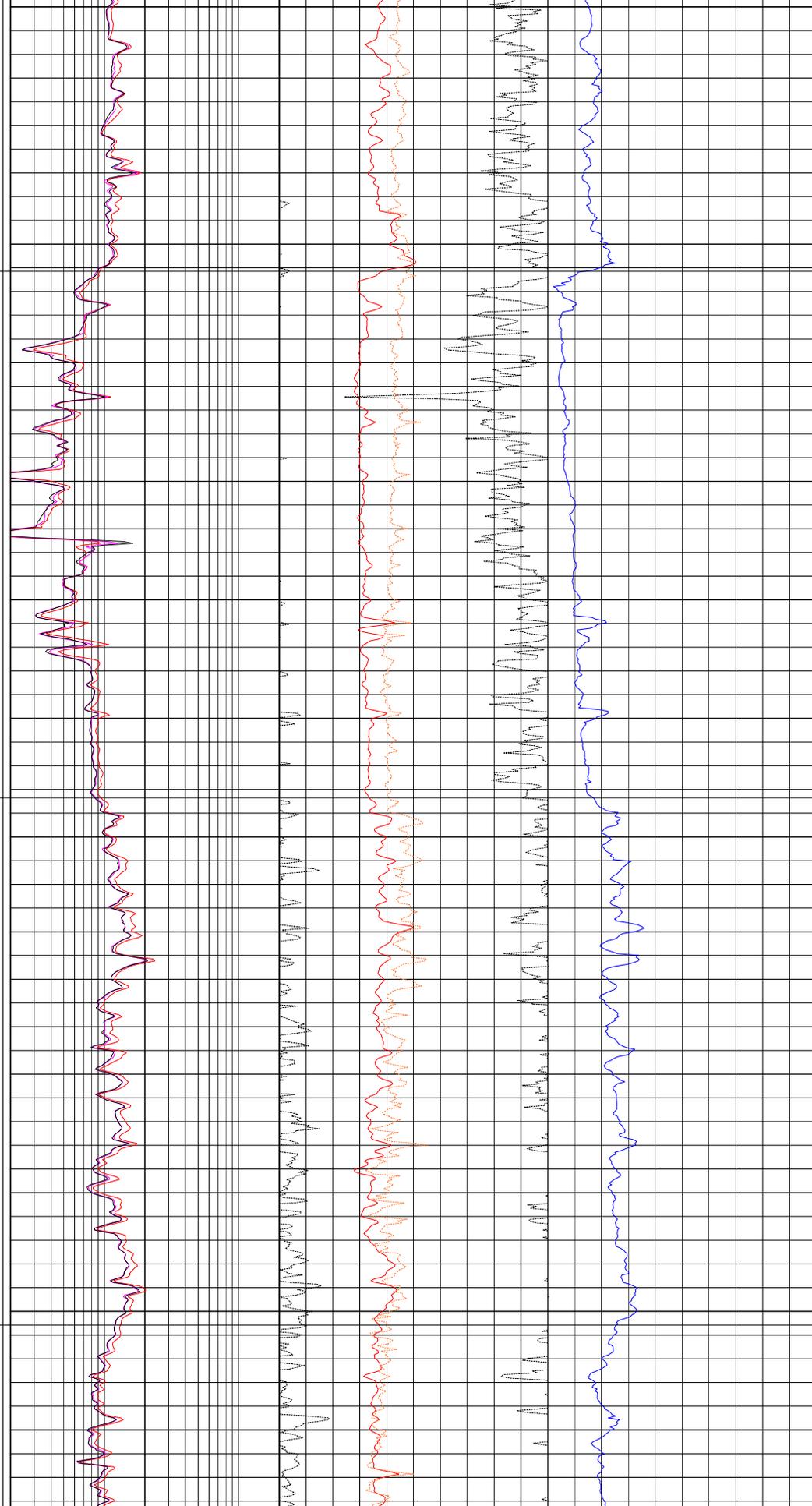
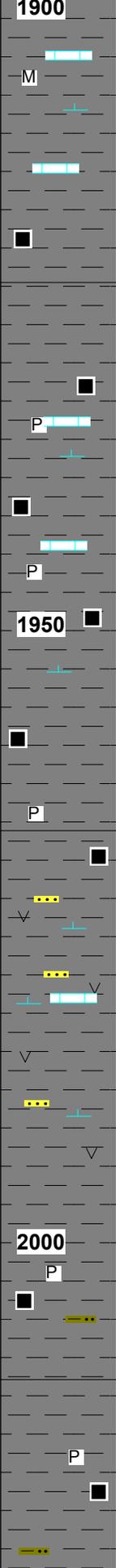
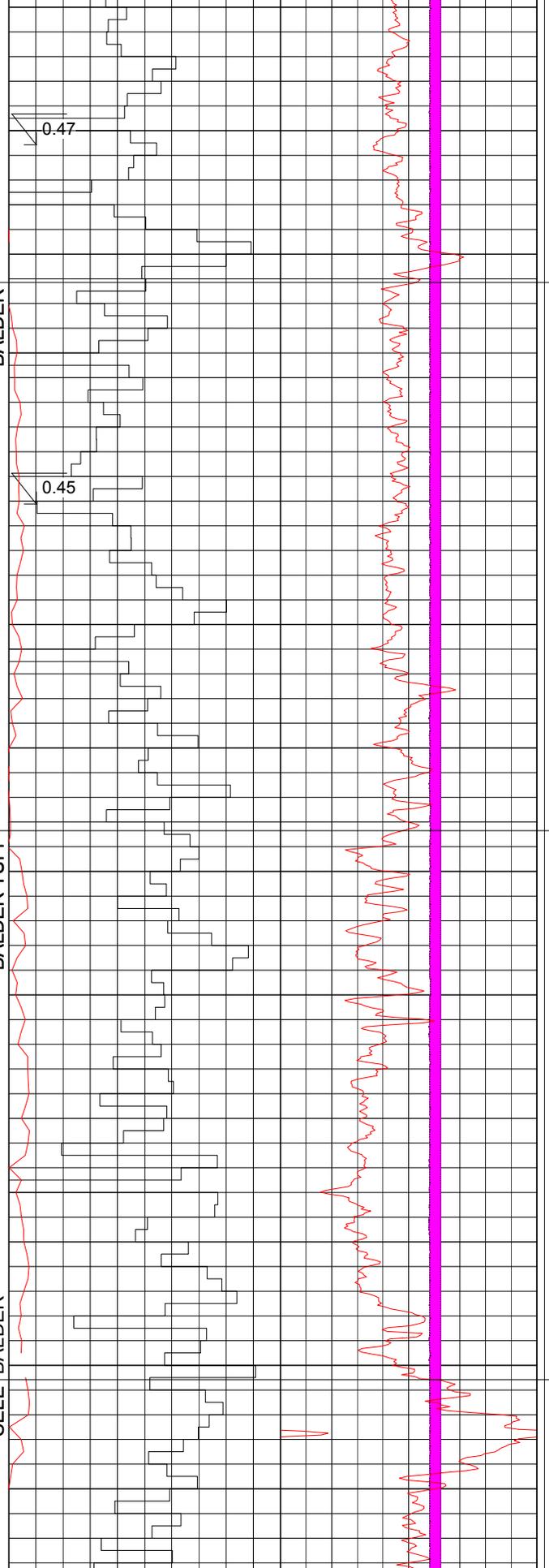
ROGALAND GROUP HORDALAND GROUP

UNDIFFERENTIATED EOCENE

BALDER

BALDER TUFF

SELE BALDER



**Balder**  
**1922.3m MD / -1897.5m TVDSS**

Claystone: olive black to olive grey, subblocky, firm, locally slightly silty, rare to trace micropyrite, rare to trace carbonaceous material, non to very slightly calcareous.

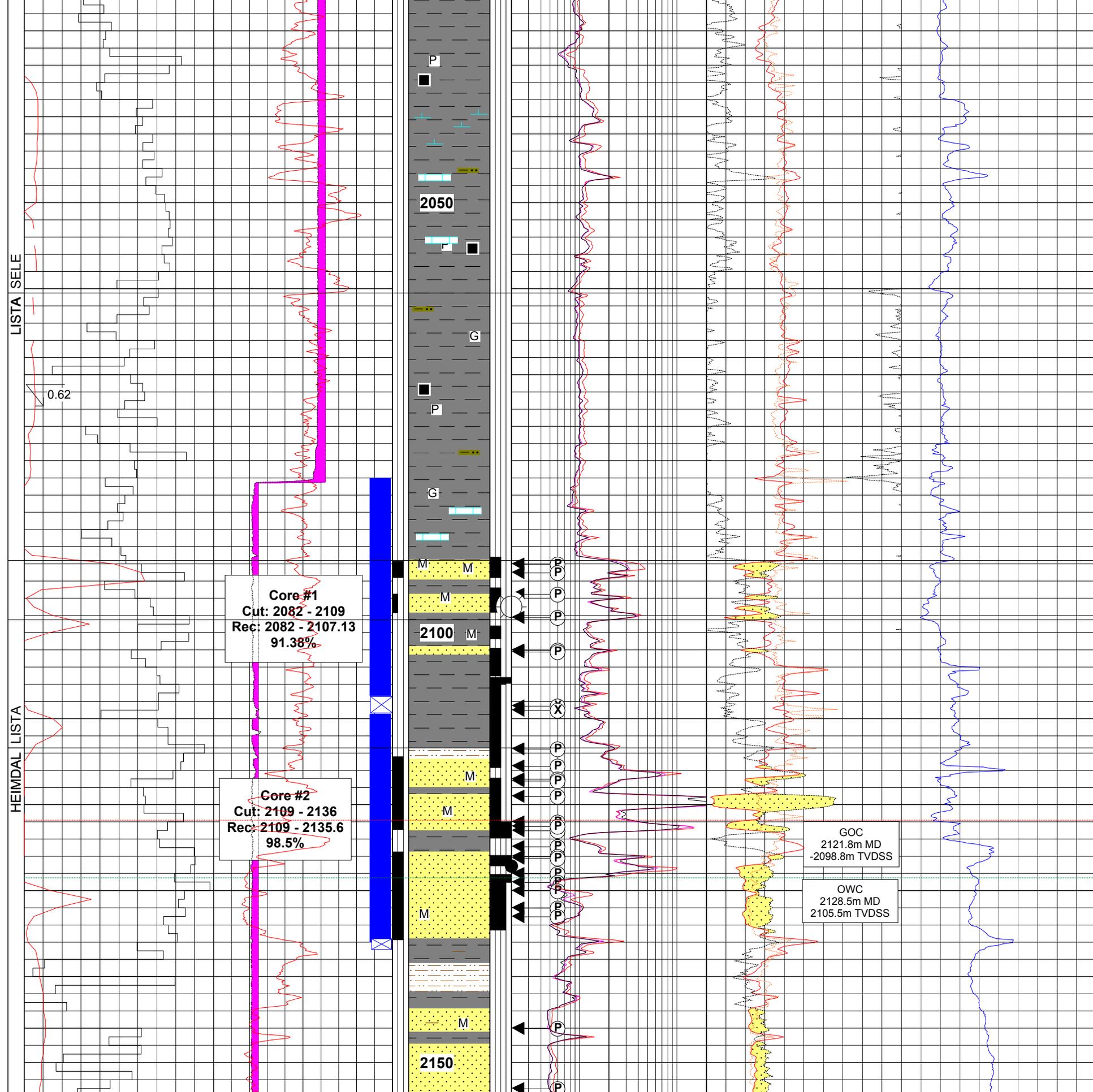
**Balder Tuff**  
**1966.7m MD / -1943.6m TVDSS**

Tuffaceous Claystone: medium grey to medium dark grey, minor medium blueish grey, locally black and white speckled, firm, subblocky, locally grading argillaceous and tuffaceous Limestone, locally silty to very fine sandy, non to very slightly calcareous.

Claystone: olive grey to olive black, firm, subblocky, locally slightly silty, micropyritic and rarely carbonaceous, non calcareous.

**Sele**  
**2011.2m MD / -1988.1m TVDSS**

Claystone: olive grey to olive black, firm, subblocky, locally slightly silty, rarely micropyritic, carbonaceous in part, non calcareous.



Trace Limestone: mudstone, light olive grey, firm, cryptocrystalline, argillaceous, locally grading calcareous Claystone, rare carbonaceous material, no visible porosity. No shows.

**Lista**  
**2060.5m MD / -2037.4m TVDSS**

Claystone: dark grey to greyish black, firm, subblocky, carbonaceous in part, rare Glauconite, non calcareous,

Trace Limestone: pale to dark yellowish brown, blocky, firm, argillaceous, locally very fine sandy, rare Glauconite, cryptocrystalline.

**Intra-Lista Sand**  
**2091.6m MD / -2068.5m TVDSS to**  
**2098.5m MD / -2075.4m TVDSS**

Sandstone: light olive grey to olive grey, clear to translucent Quartz, very fine to fine, angular to subrounded, well sorted, trace Mica, rare Glauconite, rare carbonaceous material, very fine millimeter lamina.

Shows on Sandstone 2082m - 2122m: very faint petroleum odour, very dull blue white direct fluorescence, very slow streaming dull blue white fluorescent cut, dull blue white fluorescent residue.

Shows on Sandstone 2105.5m: moderate petroleum odour, faint light brow oil stain, bright yellow direct fluorescence, slow streaming dull blue white fluorescent cut, dull yellow white fluorescent residue.

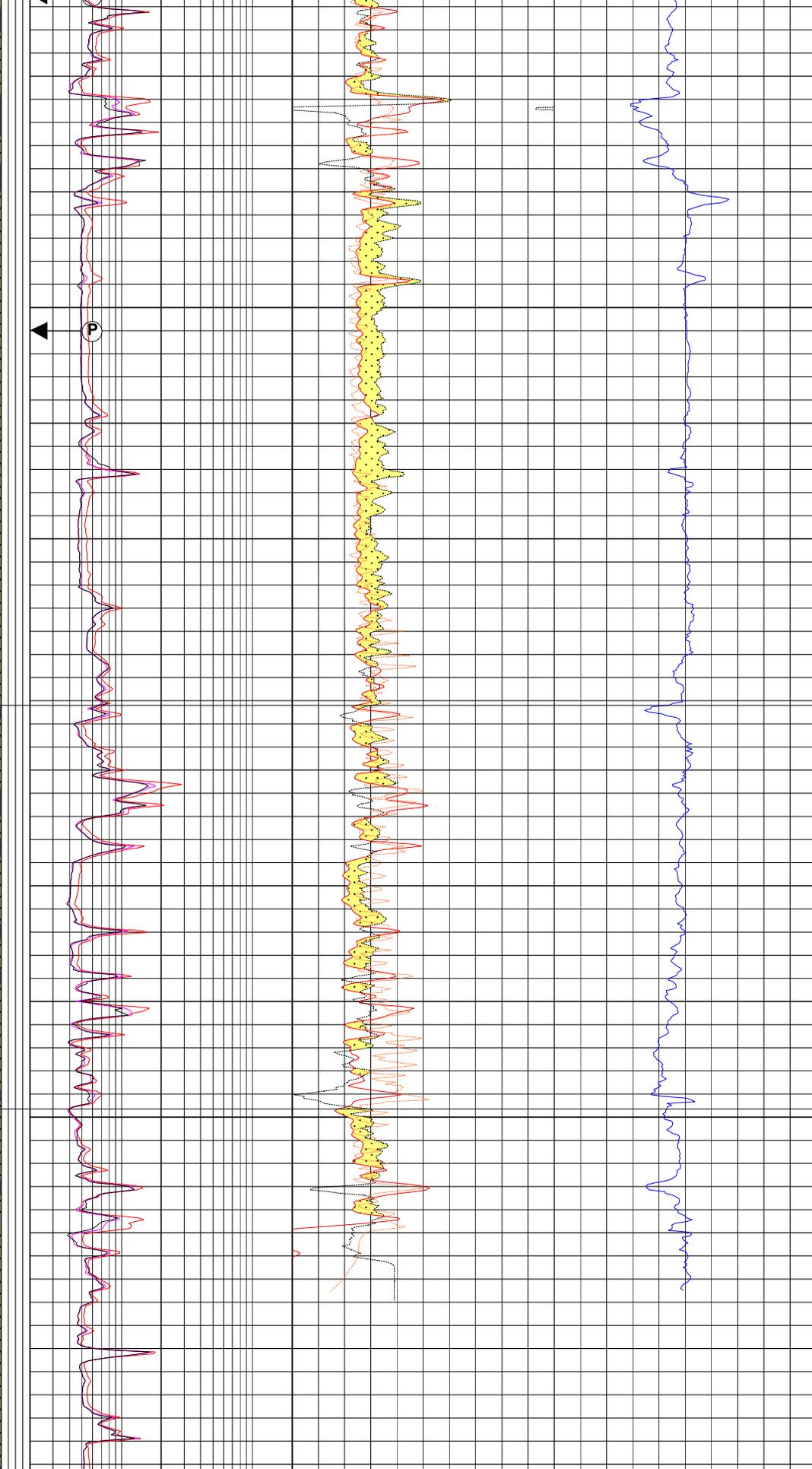
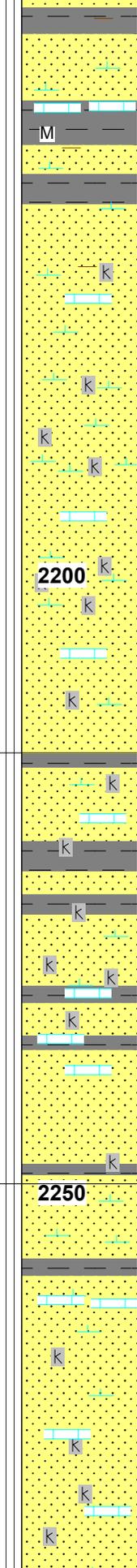
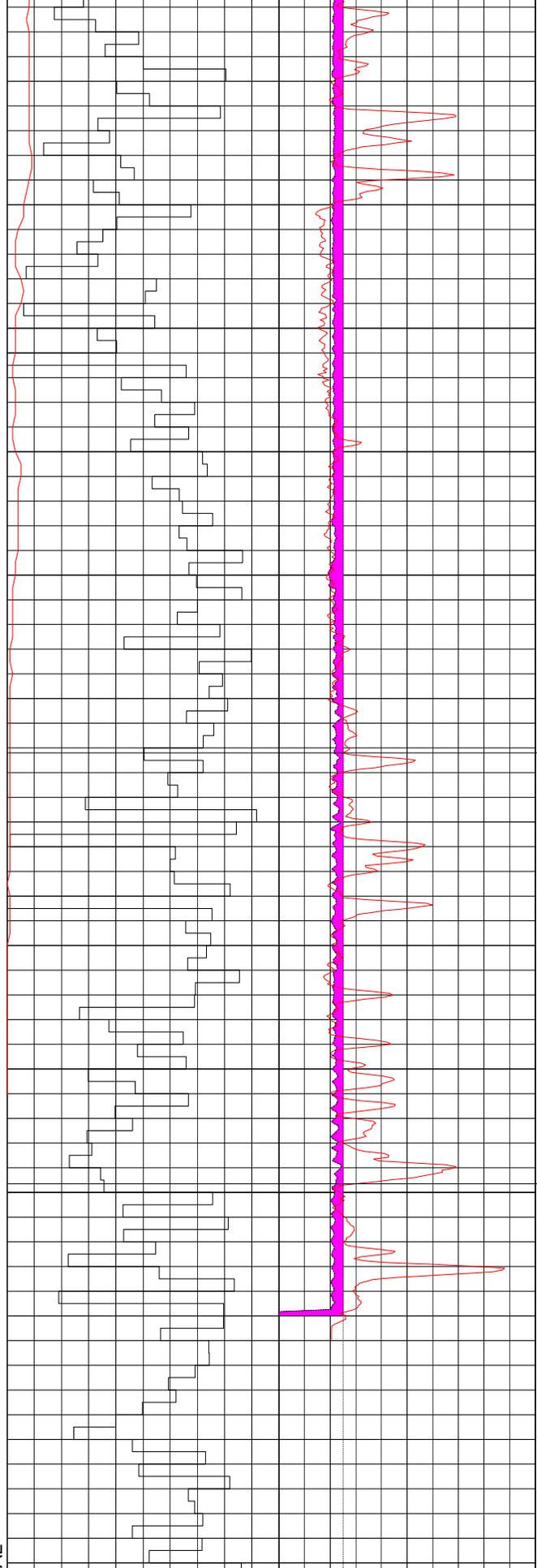
**Heimdal, Z1**  
**2113.4m MD / -2090.4m TVDSS**

Sandstone: generally pale to dark yellowish brown, locally light olive grey to olive grey Quartz, very fine to very coarse, predominantly fine to coarse, friable, trace silic cement, locally trace Mica, generally fair visible porosity.

Shows on Sandstone 2122m - 2129m: moderate petroleum odour, light brown oilstain, bright yellow direct fluorescence, instantaneous blue white fluorescent cut, bright blue white fluorescent residue.

Show on Sandstone 2129m to 2134m: faint to moderate petroleum odour, no to locally light brown oil stain, dull to bright yellow direct fluorescence, instantaneous dull to pale blue white to pinkish fluorescent, cut, dull to pale greenish fluorescent residue.

Sandstone: medium grey aggregates with clear to translucent Quartz, very fine to medium, becoming fine



to very coarse, subangular to subrounded, moderate to well sorted, friable, trace argillaceous matrix, trace silicic cement, trace Mica, fair visible porosity. No shows.

Sandstone: medium grey aggregates with clear to translucent Quartz, predominantly medium to coarse, subangular to subrounded, moderately sorted, good trace argillaceous and kaolinic matrix, good trace silicic and calcareous cement, fair to good visible porosity. No shows.

Sandstone: as above with locally very abundant kaolinic matrix/cement and very calcareous cement in part.

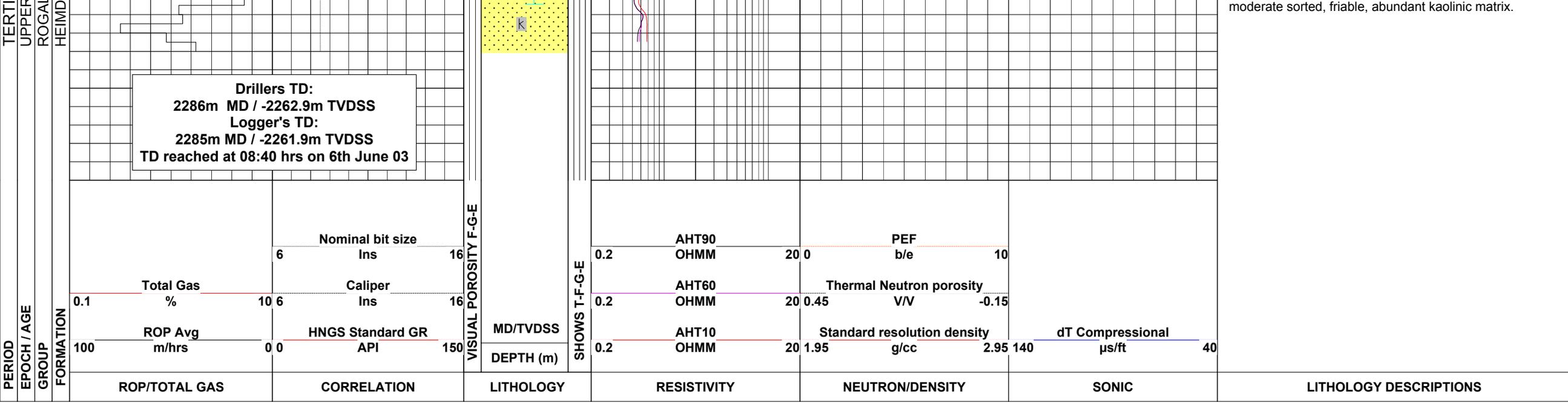
**Heimdal Z2**  
**2214.4m MD / -2191.4m TVDSS**

Sandstone: medium grey aggregates with clear to translucent Quartz, predominantly medium to coarse, subangular to subrounded, moderately sorted, good trace argillaceous and kaolinic matrix, good trace silicic and calcareous cement, fair to good visible porosity. No shows.

**Heimdal Z3**  
**2249.3m MD / -2226.2m TVDSS**

Sandstone: medium grey aggregates with clear to translucent Quartz, predominantly medium to coarse, subangular to subrounded, moderately sorted, good trace argillaceous and kaolinic matrix, very calcareous cement, fair to good visible porosity. No shows.

Sandstone: light grey, clear to translucent Quartz, very fine to medium, predominantly very fine to fine, becoming predominatly medium to coarse, subangular.



moderate sorted, friable, abundant kaolinic matrix.

**MDT PRESSURE WORK SHEET**

PreTest Chamber Size: 20 cc, variable					Geologist: Sigvart Bjerkenes			
Probe Type: Large					Engineer: Brett Mitchell / Steve Allan (MDTech)			
Quartz Pressure Gauge serial no: 2541					Ref Log(s): GR/Pex, Run 1A			
#	Depth BRT (m)	Depth TVDSS (m)	Hydro-static before (bara)	Hydro-static after (bara)	Final shut-in press (psia) (bara)		Comments 1) Drawdown: 20cc	
						Draw-down Perm (md/cp)		
1	2092	2068.9	268.103	267.944		204.721	55.8	Good test
2	2093	2069.9	268.048	267.944		204.692	35.7	Good test
3	2095.5	2072.4	268.307	268.185		204.684	21.9	Good test
4	2097	2073.9	268.414	268.317		204.682	219.4	Good test
5	2098.2	2075.1	268.489	268.398		204.688	119.7	Good test
6	2102	2078.9	268.992	268.895				Dry Test
7	2102.2	2079.1	268.94	268.822		204.771	0.5	Good test
8	2108.5	2085.4	269.841	269.696				Lost Seal
9	2109	2085.9	269.764	269.674				Dry Test
10	2113.5	2090.4	270.389	270.273		201.538	713.2	Good test
11	2115.5	2092.4	270.6	270.512		201.572	581.5	Good test
12	2117	2093.9	270.764	270.682		201.733	1.2	Good test
13	2117.2	2094.1	270.755	270.698		201.597	59.6	Good test
14	2119	2095.9	270.999	270.933		201.628	1845.7	Good test
15	2120	2096.9	271.103	271.058		201.645	5094.2	Good test
16	2122	2098.9	271.398	271.339		201.7	553.9	Good test
17	2123	2099.9	271.503	271.454				Dry Test
18	2122.5	2099.4	271.426	271.379		201.73	588.5	Good test
19	2126	2102.9	271.961	271.893				Dry Test
20	2126.2	2103.1	271.904	271.843		202.073	6.8	Good test
21	2127.2	2104.1	272.025	271.98		202.186	983.8	Good test
22	2128	2104.9	272.114	272.082		202.242	1034.9	Good test
23	2129	2105.9	272.249	272.205		202.337	987.5	Good test
24	2130	2106.9	272.376	272.331		202.464	12.4	Good test
25	2132	2108.9	272.666	272.605		202.636	1223.9	Good test
26	2133	2109.9	272.777	272.733		202.745	1174.2	Good test
27	2146	2122.9	274.712	274.588		204.046	562	Good test

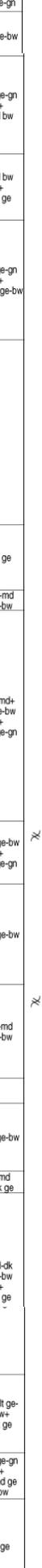
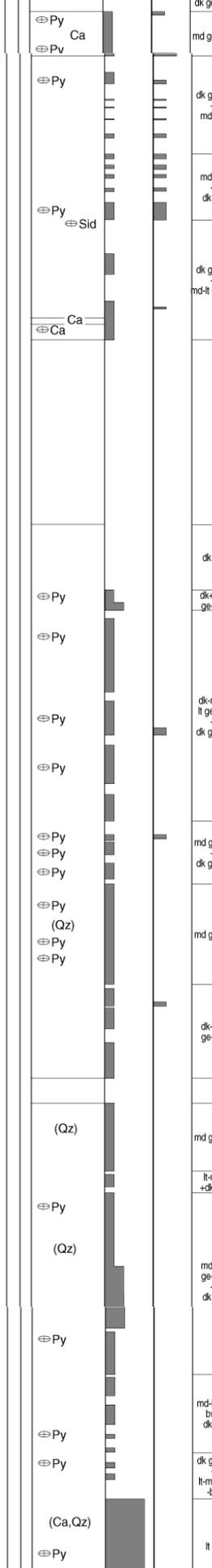
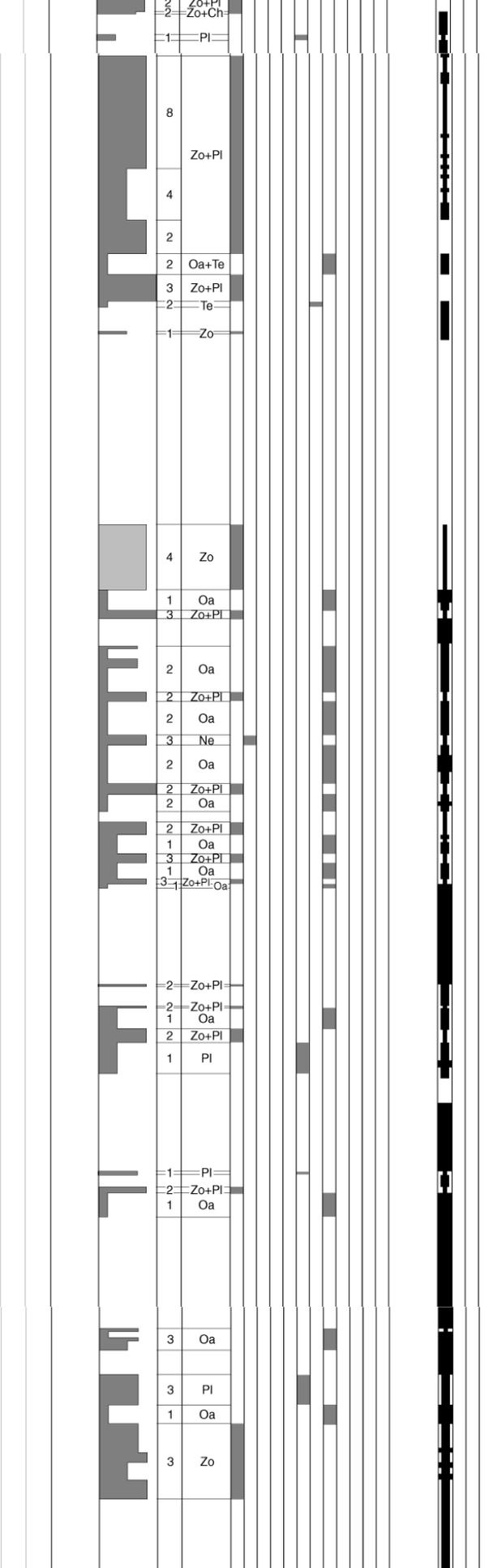
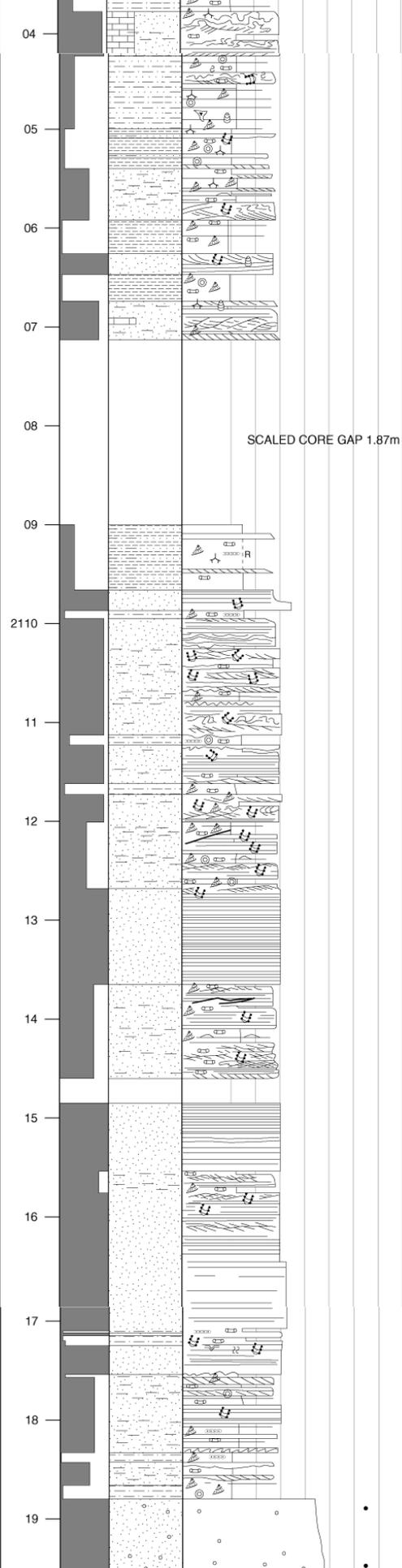
AGE / GROUP FORMATION	DEPTH (m MD)	DEPTH (m TVDSS)	AVT (m)	UTM (mE)	UTM (mN)
<b>Undifferentiated Miocene Nordland Group</b>					
Utsira	385.0	-362.0	391.9	446975.9	6597877.6
Base Utsira	777.0	-753.9		446975.2	6597878.2
<b>Undifferentiated Eocene Hordaland Group</b>					
Grid Sands	1219.0	-1196.0	86.3	446978.2	6597881.5
Base Grid Sands	1305.3	-1282.3	-	446978.5	6597882.0
<b>Rogaland Group</b>					
Balder	1922.3	-1899.2	88.9	446982.2	6597883.5
Balder Tuff	1966.7	-1943.6	44.5	446982.5	6597883.5
Sele	2011.2	-1988.1	49.3	446982.8	6597884.0
<b>Upper Paleocene</b>					
Lista	2060.5	-2037.4	53.0	446983.1	6597884.5
Intra-Lista Sand	2091.6	-2068.5	6.9	446983.3	6597884.5
Base Intra-Lista Sand	2098.5	-2075.4	-	446983.4	6597884.5
Heimdal Sandstone	2113.4	-2090.4	172.5+	446983.5	6597884.5
Z1			101.0		
Z2	2214.4	-2191.4	34.8	446984.3	6597884.5
Z3	2249.3	-2226.2	36.7+	446984.6	6597885.6
T.D. (Driller)	2286.0	-2262.9		446985.0	6597885.6
(Logger, did not tag TD)	2285.0	-2261.9		446985.0	6597885.6

- SLM confirmation of drillers depth made before wireline logging.
- Formation tops based on correlation with offset wells, principally 25/4-3, 25/4-7 and 24/6-2,
- TVDSS values calculated using the Minimum Curvature method.
- Formation picks for Nordland Group Utsira formation based on GR response (behind casing) only,





PALAEOCENE  
HEIMDAL SANDSTONE MEMBER



04  
05  
06  
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2110  
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8  
9  
1  
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3

PS

md(Sr)  
Mb (Sr)  
Cb (Sr)  
SMs  
Cb (Sr)  
Stb  
Cb  
SMs  
Cb/Sr  
Stb  
Mb  
SMs  
B3  
Mb(Sr)  
SMs  
Mb(Sr)  
SMs  
Sp  
A3  
SMs  
Sp  
SMs  
A3  
Sp  
Mb  
Sp  
SMs  
B3  
Mb  
SMs  
Mb  
Sm  
A2

Broadly cleaning upward succession, comprising intercalated lower dm- to cm-scale sandstones, siltstones and claystones. The sandstones are light to mid brownish grey, micaceous, generally sparsely to weakly bioturbated, slightly silty, typically very fine grained sandstones, the uppermost unit being 'clean' and mid fine grained. They display current ripple lamination to planar stratification and common later slumping and are colonised by *Ophiomorpha annulata*, with local *Teichichnus* and escape burrows. One bed at 2103.78-2104.26m displays pervasive calcite cementation. Visual porosity is generally very low. Weak hydrocarbons staining is common. Sandstones are intercalated with siltstones towards the top of the succession and with claystones lower down. These are dark greenish grey deposits which are intensely bioturbated, with dominant *Zoophycos* and *Planolites* and subordinate *Nereites*, *Chondrites* and *Schaubylindrichnus*. Pyrite nodules occur locally.

Generally thinning and fining upward succession of upper dm- to cm-scale sandstones with minor intercalated siltstones, above a basal silt-prone interval. The sandstones are light brownish grey, well sorted, locally highly micaceous, locally weakly bioturbated, silty to 'clean', very fine to lower fine grained sandstones. Thinner units display ripple lamination and planar stratification, with minor slumping, whilst thicker units are generally planar stratified. *Ophiomorpha annulata* is common in the thinner sandstones, the tops of some beds displaying *Zoophycos*. Mud grains and mica are very common in the thicker units, which generally lack bioturbation. The sandstones are weakly quartz cemented with low porosity at best, showing isolated patches of weak hydrocarbons staining. Local silt-lined, closed, displacive fractures isolate thin hydrocarbons-stained beds, showing cm-scale normal off-sets. The intercalated siltstones are dark greenish grey and intensely to completely bioturbated, with dominant *Zoophycos* and subordinate *Planolites*, *Nereites* and *Schaubylindrichnus*. Pyrite nodules occur throughout.

HEMIPELAGIC MUDS WITH MINOR (OVERBANK) DILUTE SANDY TURBIDITES

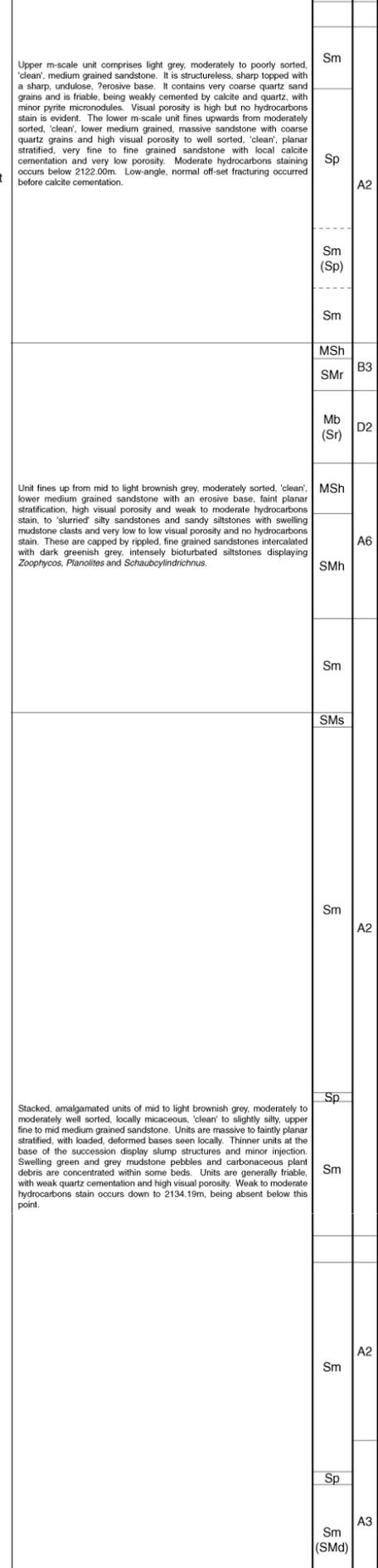
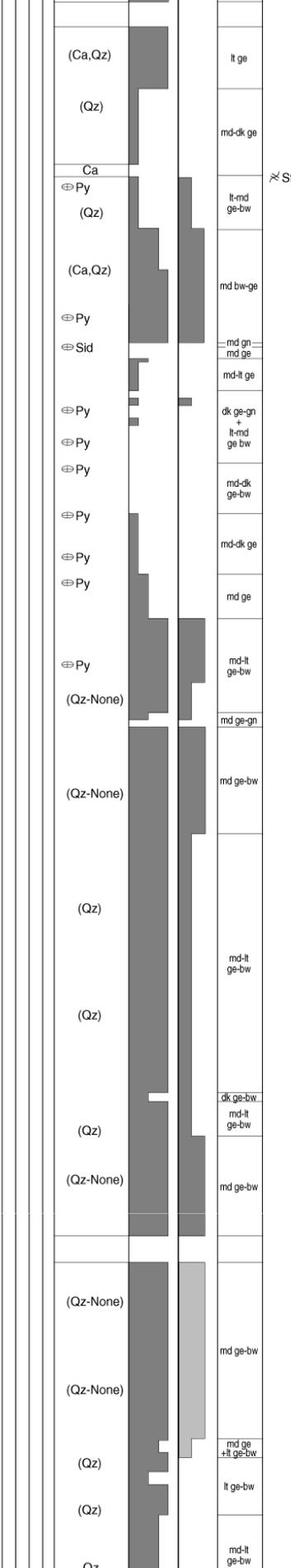
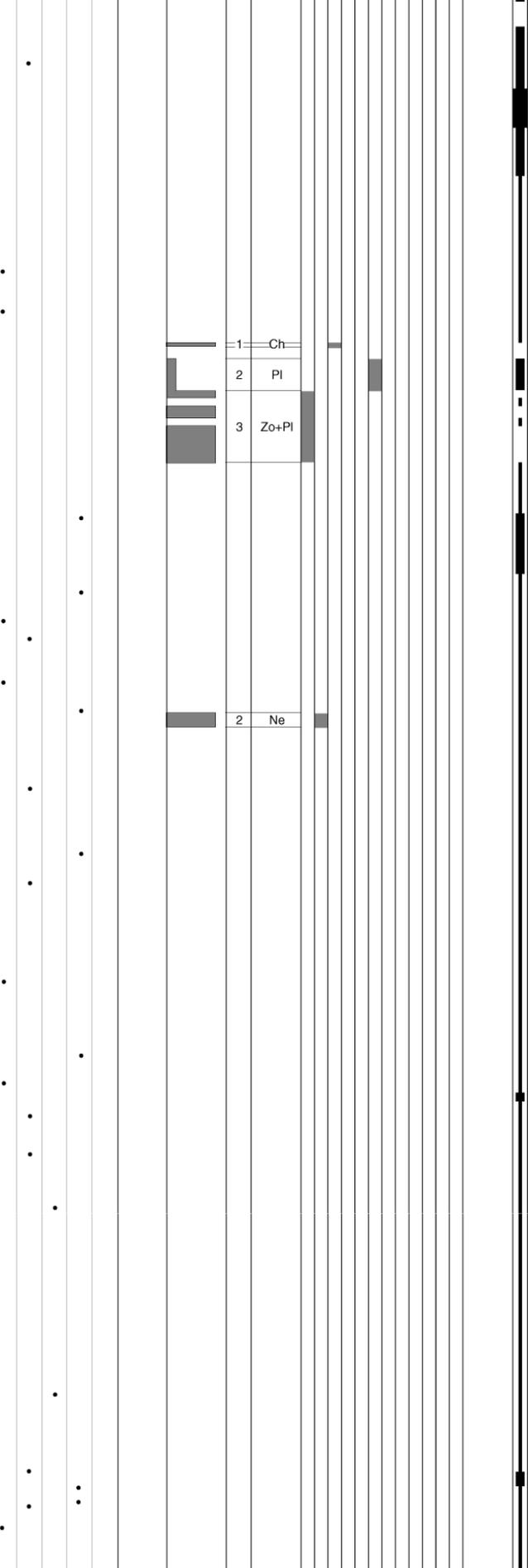
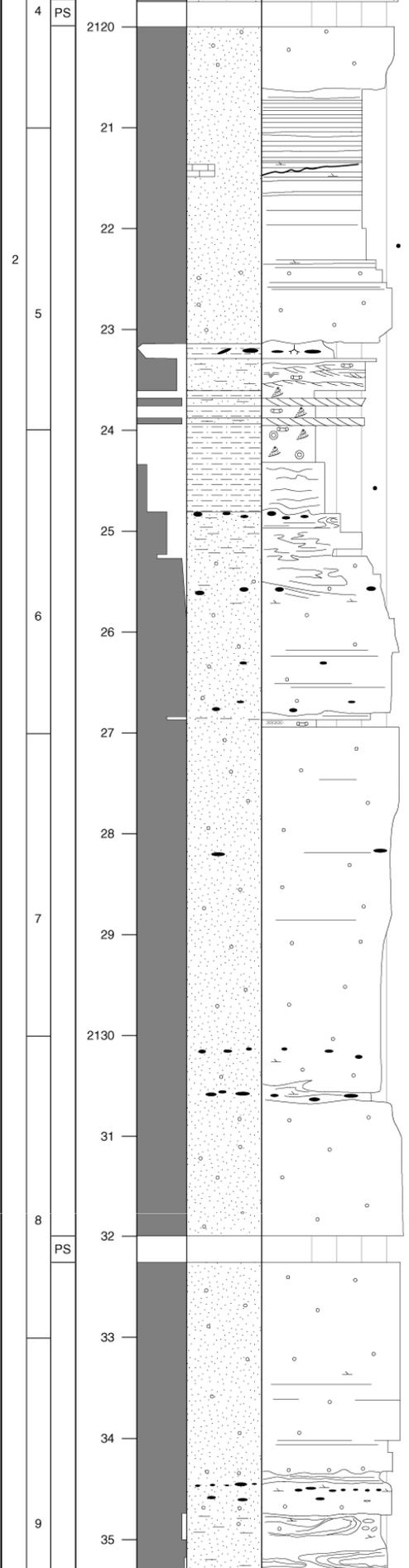
(PROBABLY CAVED)

MAINLY (OVERBANK?) DILUTE SANDY TURBIDITES WITH MINOR HEMIPELAGICS

LOW-DENSITY SANDY TURBIDITES (POSSIBLE CREVASSE-SPLAY RELATED TO NEARBY CHANNEL SYSTEM) WITH VERY MINOR HEMIPELAGICS

CHANNEL ABANDONED ?INJECTED

INJECTED OR CHANNEL-FILL



SUBJECT TO RAPID DUMPING DUE TO FLOW-STRIPPING (FOLLOWED BY AVULSION)

Upper m-scale unit comprises light grey, moderately to poorly sorted, 'clean', medium grained sandstone. It is structureless, sharp topped with a sharp, undulose, erosive base. It contains very coarse quartz sand grains and is friable, being weakly cemented by calcite and quartz, with minor pyrite micronodules. Visual porosity is high but no hydrocarbons stain is evident. The lower m-scale unit fines upwards from moderately sorted, 'clean', lower medium grained, massive sandstone with coarse quartz grains and high visual porosity to well sorted, 'clean', planar stratified, very fine to fine grained sandstone with local calcite cementation and very low porosity. Moderate hydrocarbons staining occurs below 2122.00m. Low-angle, normal off-set fracturing occurred before calcite cementation.

Unit fines up from mid to light brownish grey, moderately sorted, 'clean', lower medium grained sandstone with an erosive base, faint planar stratification, high visual porosity and weak to moderate hydrocarbons stain, to 'slurried' silty sandstones and sandy siltstones with swelling mudstone clasts and very low to low visual porosity and no hydrocarbons stain. These are capped by rippled, fine grained sandstones intercalated with dark greenish grey, intensely bioturbated siltstones displaying *Zoophycos*, *Planolites* and *Schaubcylichtrichnus*.

Stacked, amalgamated units of mid to light brownish grey, moderately to moderately well sorted, locally micaceous, 'clean' to slightly silty, upper fine to mid medium grained sandstone. Units are massive to faintly planar stratified, with loaded, deformed bases seen locally. Thinner units at the base of the succession display slump structures and minor injection. Swelling green and grey mudstone pebbles and carbonaceous plant debris are concentrated within some beds. Units are generally friable, with weak quartz cementation and high visual porosity. Weak to moderate hydrocarbons stain occurs down to 2134.19m, being absent below this point.

COMPLETE CHANNEL-FILL DEPOSIT INCLUDING THICK TAIL OF DILUTE SAND  
?GAS/OIL CONTACT 2122.0m

COMPLETE CHANNEL-FILL AND OVERBANK SUCCESSION WITH HEMIPELAGICS AT THE TOP

AMALGAMATED HIGH-DENSITY SANDY TURBIDITES (PROBABLY CHANNEL-FILLS)

Sm

Sp

A2

Sm (Sp)

Sm

MSh

B3

SMr

Mb (Sr)

D2

MSh

A6

SMh

Sm

SMs

Sm

A2

Sp

Sm

A2

Sm

A2

Sp

Sm (SMd)

A3

