SIMON PETROLEUM TECHNOLOGY

WELL: 34/2-2

Print: 7553 R	Units: [✓ M] F	Top	Bottom	Scale	TD
Length: 32 FT	Initials: mly	380	4075	1:500	–

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY
SPT

COMPLETION LOG

X7

AF-389

COMPOSITE WELL LOG

WELL: 34/2-2
A.P.I. No:

COMPANY: **AMOCO NORWAY OIL COMPANY**
COUNTRY: **NORWAY**
AREA: **NORTH SEA**
LICENCE: **056**
FIELD: **NEW FIELD**
GROUP INTEREST: **25%**

GEOGRAPHICAL CO-ORDINATES: *SURFACE* *BOT. HOLE*
LAT: **61°46′16.83″ NORTH**
LONG: **02°33′11.38″ EAST**
K.B. ELEVATION: **26m**
WATER DEPTH: **386m**
TOTAL DEPTH: DRILLER: **4074m rkbe**
LOGGER: **4074m rkbe**

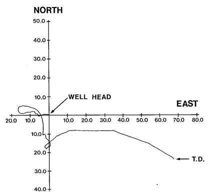
WELL CLASSIFICATION: PRE-SPUD: **WILDCAT**
COMPLETION: **DRY HOLE**
DATE ON LOCATION: **12/11/1980**
SPUD DATE: **12/12/1980**
DATE T.D. REACHED: **14/04/1981**
COMPLETION DATE: **24/04/1981**
RIG RELEASE DATE: **11/05/1981**

RIG: **SEDCO 703**
DRILLING CONTRACTOR: SOUTHEASTERN DRILLING SERV. LTD.
LOGGING CONTRACTOR: SCHLUMBERGER
MUD LOGGING CONTRACTOR: GEARHART GEODATA SERV LTD
AMOCO GEOLOGISTS: **PC,ARE,GH,AJ,HJ,GK.**
COMPILED BY: **ARE.**

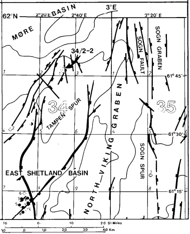
METHOD OF COMPLETION: **P & A**

VERTICAL SCALE: 1:500

WELLBORE SURVEY PLAN VIEW



WELL LOCATION MAP

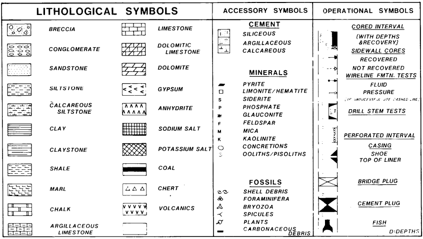


SUMMARY RECORD OF CORES,SIDEWALL CORES,D.S.T'S,R.F.T'S.			
OPERATION	TOP DEPTH	BOT. DEPTH	RECOVERY/REMARKS
Coring	3665m	3677m	Recovered 10,29m (85,75%)
Sidewall cores	2176m	3200m	30 shot,17 recovered.

DRILLING FLUID DATA	
FLUID TYPE	INTERVAL
Spud mud, high viscosity, weighted	SB-30"
Cmc bentonite	30"-20"
Gypsum lignosulfonate mud	20"→TD

WIRELINE LOGGING PROGRAM

DATE	RUN	LOGS	DEPTH INTERVAL M	B.H.T. °F	CIRC TIME HR.	TIME SINCE CIRC HR.
05/02/81	1	ISF-LSS-GR-SP	2021 - 780 (GR TO 374)	95	6.5	6.0
09/02/81	1	CBL-VDL-GR-CCL	2000 - 400	50	3.0	85.0
26/02/81	1	DLL-MSFL-CAL-GR-SP	3201 - 2300	161	2.5	8.0
	1	FDC-CNL-CAL-GR	3201 - 2014	172	2.5	11.0
	2	ISF-LSS-GR	3201 - 2014	178	2.5	16.0
27/02/81	1	HDT-CAL	3200 - 2014	178	2.5	18.5
08/03/81	1	CBL-VDL-GR-CCL	3167 - 1000	213	3.0	108.5
17/04/81	3	ISF-LSS-GR-SP	4070 - 3190	250	8.0	8.0
18/04/81	2	FDC-CNL-CAL-GR	4070 - 3190	250	8.0	11.5
	2	DLL-MSFL-CAL-GR	4070 - 3190	250	8.0	16.0
	2	HDT-CAL	3840 - 3190 (TOOL WOULD	250	8.0	20.5
			NOT PASS 3840)			
23/04/81	3	CBL-VDL-GR-CCL	3190 - 1120	215	6.5	19.0
23/04/81	1	VSP	3313 - 0	218	6.5	22.5



LITHOLOGICAL SYMBOLS

- *BRECCIA*
- *CONGLOMERATE*
- *SANDSTONE*
- *SILTSTONE*
- *CALCAREOUS SILTSTONE*
- *CLAY*
- *CLAYSTONE*
- *SHALE*
- *MARL*
- *CHALK*
- *ARGILLACEOUS LIMESTONE*
- *LIMESTONE*
- *DOLOMITIC LIMESTONE*
- *DOLOMITE*
- *GYPSUM*
- *ANHYDRITE*
- *SODIUM SALT*
- *POTASSIUM SALT*
- *COAL*
- *CHERT*
- *VOLCANICS*

ACCESSORY SYMBOLS

CEMENT
- *SILICEOUS*
- *ARGILLACEOUS*
- *CALCAREOUS*

MINERALS

▬	*PYRITE*
□	*LIMONITE/HEMATITE*
S	*SIDERITE*
P	*PHOSPHATE*
*	*GLAUCONITE*
F	*FELDSPAR*
M	*MICA*
K	*KAOLINITE*
○	*CONCRETIONS*
◎	*OOLITHS/PISOLITHS*

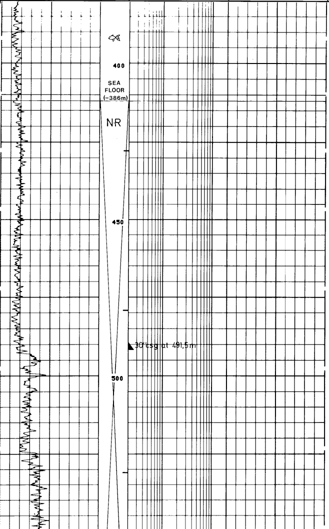
FOSSILS
- *SHELL DEBRIS*
- *FORAMINIFERA*
- *BRYOZOA*
- *SPICULES*
- *PLANTS*
- *CARBONACEOUS DEBRIS*

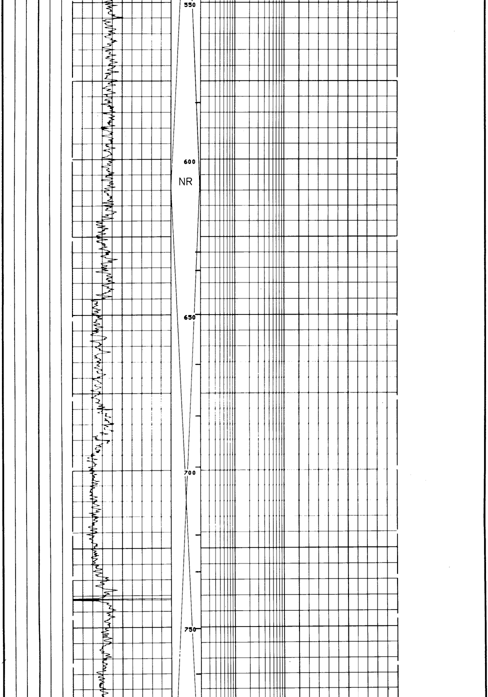
OPERATIONAL SYMBOLS

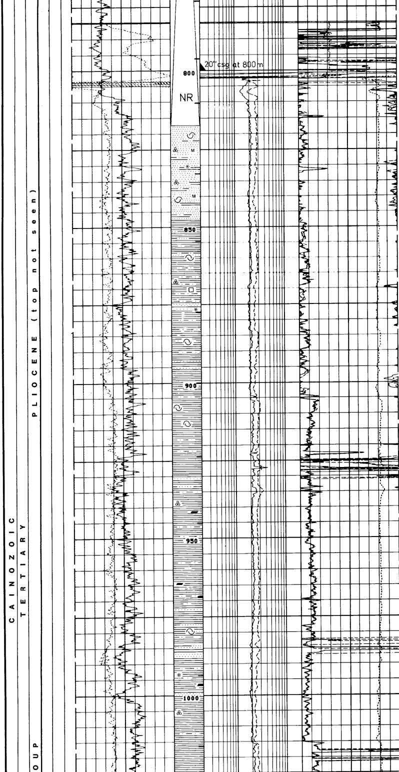
CORED INTERVAL
(WITH DEPTHS &RECOVERY)
SIDEWALL CORES
RECOVERED
NOT RECOVERED
WIRELINE FMTN. TESTS
FLUID
PRESSURE
(IF UNSUCESSFUL USE DASHED LINE)
DRILL STEM TESTS
PERFORATED INTERVAL
CASING
SHOE
TOP OF LINER
BRIDGE PLUG
CEMENT PLUG
FISH
D:DEPTHS

◔ SHOW OR STAIN ◑ HYDROCARBON CUT ◕ FLUORESCENCE ☼ GAS SHOW

SYSTEM	SERIES	STAGE (paleo-dating by Robertson Research Ltd.)	GROUP	FORMATION	MEMBER	SPONTANEOUS POTENTIAL MILLIVOLTS GAMMA RAY API UNITS		RESISTIVITY OHMS - M DEEP INDUCTION R_{ild} SPHERICALLY FOCUSED RESISTIVITY R_{sfl}	INTERVAL TRANSIT TIME ΔT MICROSECONDS PER FOOT CONDUCTIVITY MILLI - MOHS / METRE	LITHOLOGICAL DESCRIPTION AND REMARKS
									DTL (µS/F) 240.0 140.0 DT (µS/F) 240.0 140.0 CILD (MM/M) 2000. 0.0 DTL (µS/F) 140.0 40.00 DT (µS/F) 140.0 40.00	
						GR (GAPI) 0.0 100.0 SP (MV) - 80.00 20.00		ILD (OHMM) 20.00 2000. SFLU (OHMM) 20.00 2000. ILD (OHMM) 0.2000 20.00 SFLU (OHMM) 0.2000 20.00		







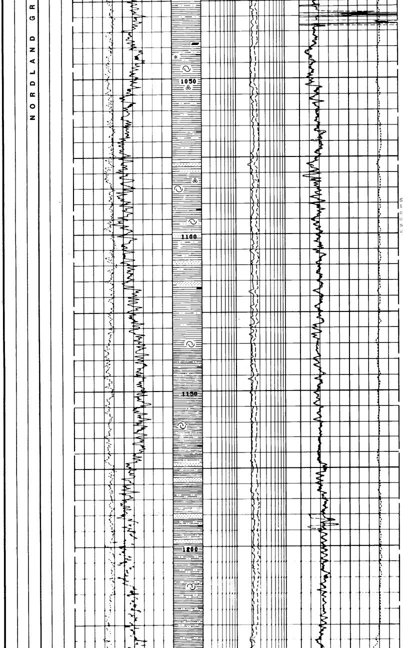
Sand, clr-wh, f.c gn, p srt, ang-sb rnd, lse gns, tr. biot, chlor, shell frags

Silt, dk-lt gry, blky-sub fiss, mod hd, calc and

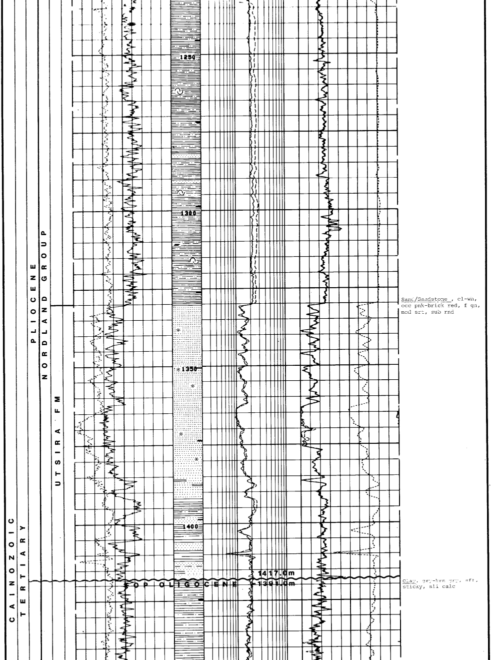
Clay, dk-lt gry, sft-mod hd, non calc, w/shell frags

Clay, gry, sticky, lse, calc, w/shell frags

Silt, lt gry, blky-sub fiss, mod hd, calc, w/ shell frags

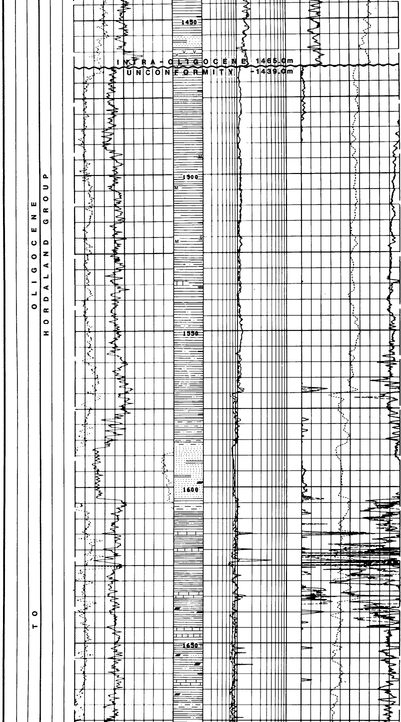


Samples recovered on bit include pebbles of dk grn chloritic Shale, dk grn quartzose Sandstone, dk siliceous metamorphic rock w/ garnet and pyrite



Sand/Sandstone , cl-wh, occ pnk-brick red, f gn, mod srt, sub rnd

Clay, gry-brn gry, sft, sticky, sli calc



Clay, gry-brn gry, sft, sticky, calc w/minor intbds of Sandstone

Sandstone, cl-grn, pink-brick red, f-m gn, mod-w srt, sub rnd w/occ rock frags

Tuff, dk grn-blk, mot w/ wh specks, f gn, w srt, mod hd.

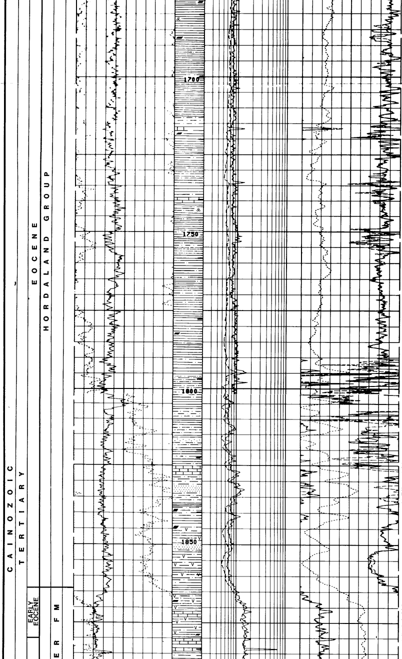
Tr. Limestone, wh-lt brn, microxln, mod hd.

Tr. Siltstone, brn-grn, blky-sub fiss, mod hd, grd to Claystone A/A

Sandstone, cl-wh, occ pink, m-c gn, w srt, rnd-w rnd, mod hd, occ frags twinned feldspar xtal & pyr.

Clay/Claystone, grn-lt grn, occ lt brn, blky, mod hd, non calc-v calc, pyr.

Limestone, brn-occ wh, microxln, hd, no vis por.



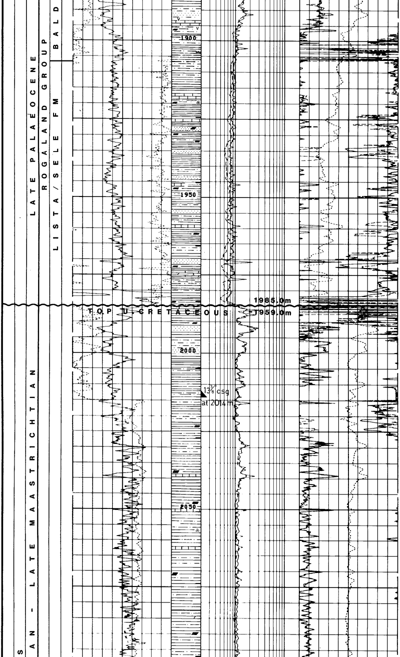
Clay, lt brn-gry, sft, occ calc, tr pyr & occ foss frags-forams

Limestone, wh, microxln, hd, no vis por.

Sandstone, cl-wh, f gn, mod srt, rnd, mod hd, poor vis por

Clay/Claystone, gry-grn, earthy lstr, mod hd-sft, calc, occ grd to silt.

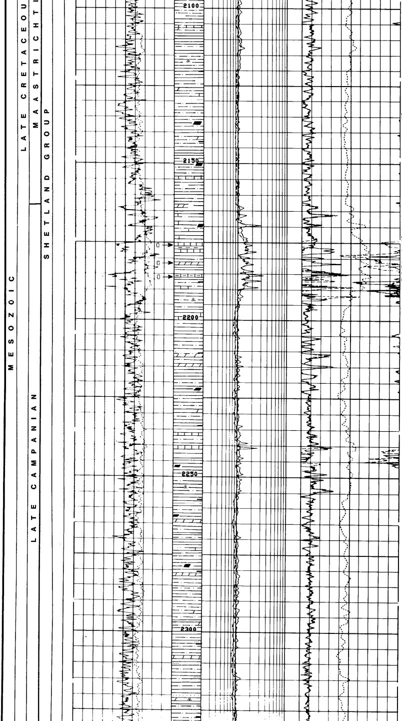
Tuff, blk, dk gry-olive grn, w/buff mot, lam, silt gn size, sub ang, sft-frm, occ calc w/thin strgs of **Limestone**, buff-wh, micro-xln, hd, occ shell frags.



Clay/Claystone, gry-grn, occ bly grn, earthy lstr, mod hd, occ fri, non calc; Limestone, wh-lt brn, microxln, hd & Sandstone, cl-wh, f-m gn, occ c gn, p srt, mod rnd, hd-mod hd, gry-grn mtrx, often mtrx sptd text, non calc cmnt, abdt pyr, tr glauc forams

Limestone, gry-grn gry & wh, microxln, mod hd-hd, no vis por

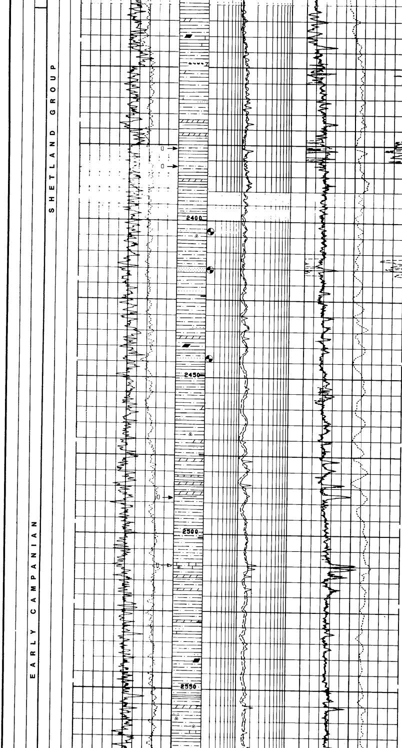
Claystone, m gry, mod srt, blky, calc-sli calc, abdt pyr, tr glauc, loc grds to Siltstone, blk-m gry, m gn, mod hd, non-sli calc, pyr.



Claystone, a/a, bcms more silty & mmic.

Clay, gry grn-v lt gry, sft-frm, stky-plas, v-mod calc, occ mrly, tr. pyr.

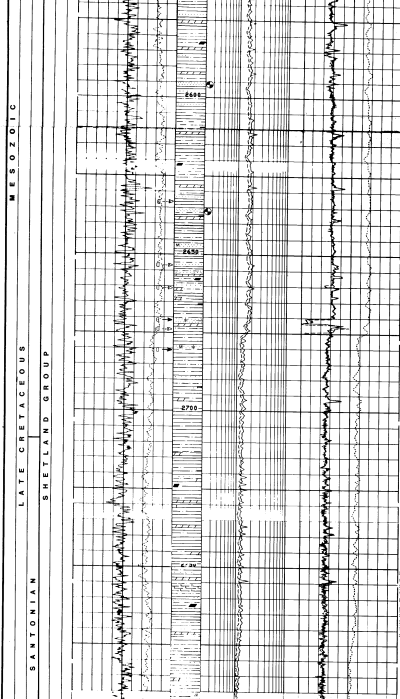
Limestone, wh-lt brn, microxln, hd argill, and occ Dolomite, gry-brn, microxln, hd, argill.



Siltstone, lt-m gry, frm, mod hd, non calc, mmic, tr glauc,
Claystone, dk-lt gry, sft, stky-plas, v sli calc-non calc, tr mmic & pyr, occ c silt qtz gns, tr glauc & thin bands of
Dolomite, buff, xln-micro-xln, blky, hd.

Sandstone, gry-lt brn, v f gn, p srt, sub rnd, sli consol, non calc, tr glauc poor vis por, Show, pale wh-mod bright pale yel fluo, slow streaming pale wh cut & crush cut

Claystone, lt-md gry, sft, stky, lumpy, occ frm & sub fiss, v silty with occ qtz gns, non-v sli calc, occ tr glauc, tr forams.
Dolomite, tan, xln-micro-xln, blky, hd, w/trace
Limestone, wh-gry, crypto-xln-micritic, frm-sft, blky-lmpy, occ arg; and
Siltstone cl-amb, c gn, p-w srt, mod-w rnd, occ fri, poor vis por.



Clay/Claystone.
Siltstone A/A

Sandstone, lt gry, v f gn, mod srt, sub rnd, wh non calc cmnt, poss kaolin, tr glauc, tr lith frags. Show, dull yel fluo, mlky wh crush cut fluo.

Claystone, m-dk gry, blky, frm, occ sub fiss, non calc, with Tr. Sandstone, lt brn, v f gn, w srt, sub rnd, indur-fri, poor vis por.

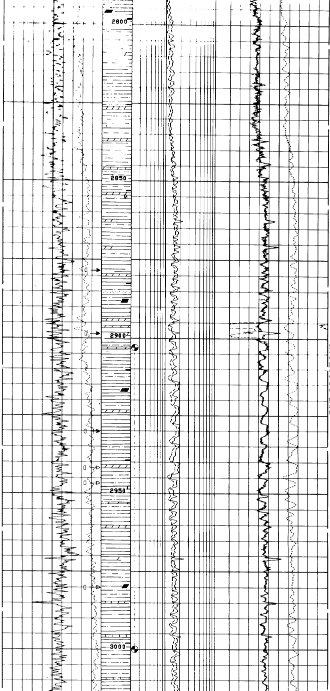
Dolomite, tan-buff, cryptoxln, frm, hd and Tr. Limestone, lt pink-lt gry, micritic, sft, w/calcite xtals.

Marl, argillaceous limestone, lt brn, lumpy, sft

LATE CRETACEOUS

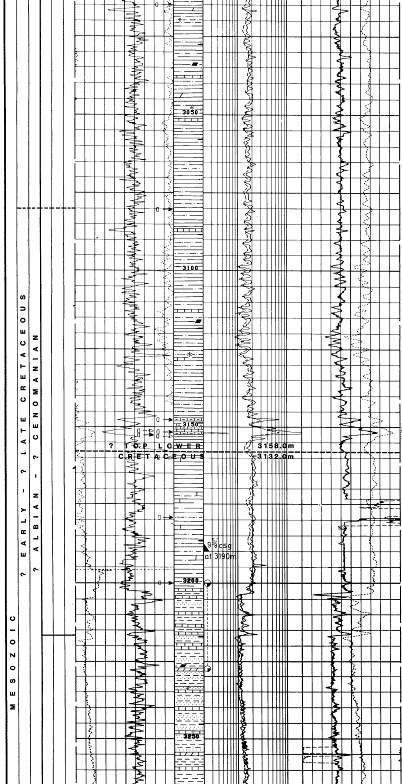
TURONIAN - CONIACIAN

SHETLAND GROUP



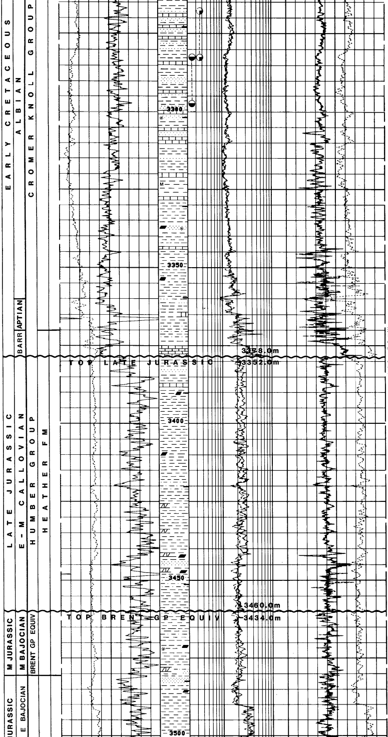
Claystone, lt-m gry, sft-frm, lumpy-blky, non calc, occ grds to Siltstone, lt-m gry, blky-sub fiss, m-c gn, w/occ v f sst lams, tr. Show, dull yel fluo, milky wh crush cut.

Dolomite, tan-buff, crypto xln-microxln, occ gran, hd, tr argill cont.



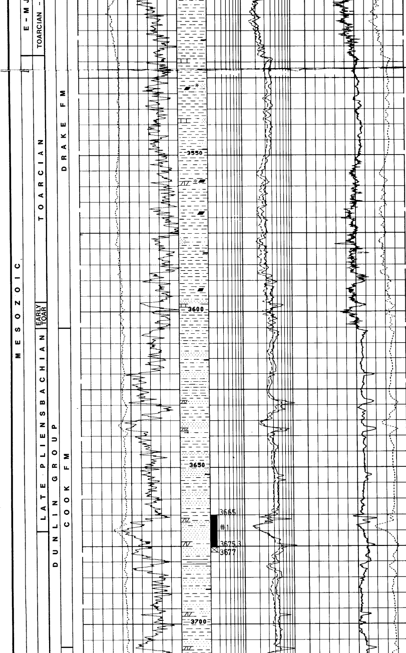
__Limestone__, lt gry-lt pink, mot, frm-mod hd, crypto-xln-microxln, argill.

__Shale__, dk gry, w/lt gry lams, earthy, mod hd, sub fiss-fiss, calc with thin intbds of __Limestone__, lt gry, cryptoxln, hd, blky, tr of calcite and thin intbds of __Sand__, pink-wh yel, v f gn, lse qtz gns, mod rnd, mod srtd, Tr. __Shows__, no stain, nil-v. poor yel fluo, pale wh crush cut.



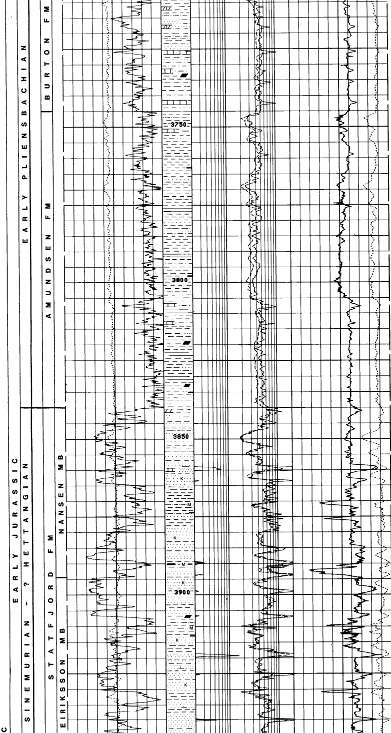
Siltstone, lt gry-grn, subfiss, mod hd, greasy, occ biot frags; Shale, gry-red brn, subfiss-fiss, mod hd-sft, calc, occ pyr, and Limestone, wh, microxln, mod hd, no vis por

Shale, m gry-red brn, sub fiss, mod frm-sft, occ calc, occ pyr w/thin stringers of Siltstone, dk gry-blk, waxy, subfiss-sub blky, mod hd, mmic, non calc & occ Dolomitic Limestone, lt gry-brn, microxln, hd, brit, no vis por, Tr. Sandstone, dk brn, m f gn, mod srt, sub ang, sli dolic mtrx, arg mat, no vis por



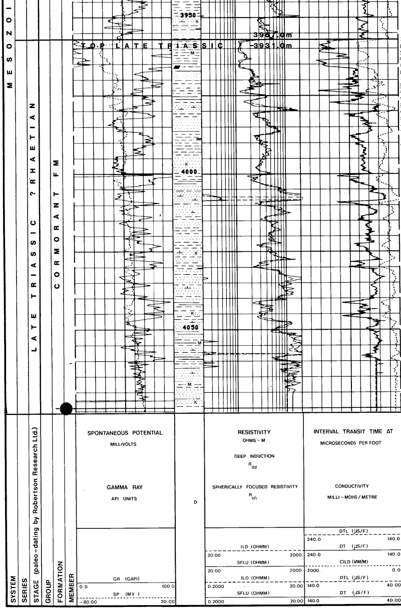
Shale, gry, subfiss-fiss, hd, occ mmic, glauc, pyr, w/thin bands of Limestone brn, microxln, hd, little clastic cont, no foss, tr beefy calcite, no vis por, Silstone, v dk gry, med gn, sub fiss-sub blky, mod hd, mmic, non calc, with tr Sandstone, brn, m-f gn, mod srt, sub ang, non calc cmnt, contains ltl arg mat.

Sandstone, wh-gry, predom f-m gn, mod srt, subang-subrnd, fri, gn supported, no vis cmnt, non calc, tr calc frags, tr mica, tr blk specks poss carb mat, loc grds to c gn siltstone More prly srt & subang at base with amorph non calc wh mtrx, poss kaolin. Microrip, small planar & trough xbeds, bioturbated, w/tr foss.



Sandstone, wh-v lt gry, occ lt brn, clr qtz, f-m gn, mod srt, subang-ang, occ qtz o/growth, non calc-tr calc mtrx, wh amorph mtrx poss kaolin. Tr lith frags & tr glauc, pr vis por, No Shows

Shale, lt-m gry, occ dk gry, subfiss, mod hd, non-sli calc, occ mmic, occ grds to siltstone & Coal, blk, vitreons-waxy, low grade.



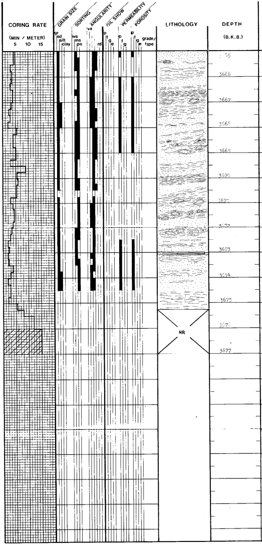
Inthd Siltstone, red brn-purple, occ lt grn-dull yel patches, subfiss-blky, mod hd, non calc, tr mmic & Claystone, red brn-deep purple, blky, sft, calc, occ dolic, tr pyr and Sand(stone), gen lse qtz gns, lt yel-gry-clr, mod-w srt, subrnd-subang, w/ Sandstone lt gry-cl, occ orng, w srt, subrnd-subang, mod hd, non calc wh mtrx, amorph, poss kaolin, poor vis por, No Shows, & Shale red brn-purple, gry-grn gry, waxy, subfiss, mod hd, non-tr calc, occ sli dolic, tr calc veining.

LITHOLOGICAL DESCRIPTION AND REMARKS

AMOCO NORWAY OIL COMPANY

NORTH SEA BLOCK [illegible] WELL No. 34/2-2
FIELD
FORMATION NAME
TOP BOTTOM
CORE No. 1 CUT FROM 3655 TO 3677
RECOVERED 10.29 m. ON 4/4/81

CORE LOG



DESCRIPTION

SANDSTONE,white-grey sandstone,white-grey grains,predom fine-occ medium grained,subang-sub rounded,friable,grain supported,no vis cement,non calcareous,tr calcareous fragments,tr mica,tr black specks(subfiss,soft, fibrous,poss carbonaceous matter),NO VIS OIL STAIN,N[illegible] ODOUR SMELLS, NO FLUORESCENCE,NO CUT,NO CRUSH CUT.

SHALE,mid-dark grey,fissile,firm,non calcareous,tr calcareous fragments, micromicaceous,loc becomes coarser(fine silt grain size).

STRUCTURES;thin ripple laminations of shale with thin sand laminae;shale drapes over small(2-5mm)sand lenses.

SANDSTONE,gen A/A,with white matrix,amorphous,non calcareous,soft,(poss clay mineral),tr calcareous fragments.

20 degree dip surface.

Small lenticular sand bodies,occ well rounded,within shale laminae.

Small scale planar cross bedding,with occ larger(3cm) rounded sandstone nodules cross cutting beds.

SHALE,becomes more fissile;decrease in SANDSTONE content.

SHALE,highly fissile,micromicaceous.Increase in pump pressure,700 to 1040 psi.

20 degree dip surface.

Predominantly sandstone with stringers of shale-planar laminae.

SANDSTONE lenses within SHALE laminae.

SANDSTONE,gen A/A,but finer grain size,grading to coarse silt size.

SHALE/CLAYSTONE,mid grey,earthy-greasy lustre,moderately soft,non calcareous,blocky-sub fissile,tr micromicaceous.

Increase in shale content,corresponds with observed "core wobble".

SHALE/CLAYSTONE,gen A/A,less micromicaceous.

25 lbs overpull when pulling out of hole.