SIMON PETROLEUM TECHNOLOGY **WELL:** 15/12-6S.

Print: 11973 K **Units:** [✓ M] F
Length: 25. FT **Initials:** [illegible]

Top	Bottom	Scale	TD
165.	3055	1:500	3050.

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY SPT

COMPLETION LOG

Partners : **Esso**

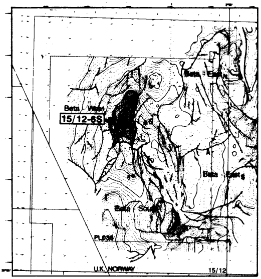
Well : 15/12-6S

COMPLETION LOG
SCALE 1:500

Beta West
Prospect / structure :

COUNTRY : NORWAY
AREA : NORTH SEA
LICENCE : PL 038
COORDINATES : N 58°04'40.30"
E 01°53'25.41"
UTM : N 6 438 063 M ZONE 31, CM 03°, ED50
E 434 553 M
ACCURACY ± 5 M
KB : 23M MSL
WATER DEPTH : 84 M
TOTAL DEPTH : 3050 M MDRKB (DRILLER), 3050.4 M RKB (LOGGER)
DEEPEST FORM.PEN: TRIASSIC
SPUD DATE : 19.08.90 05:30 HRS
TD DATE : 03.10.90 19:35 HRS
RIG RELEASE DATE: 04.11.90 22:10 HRS
WELL STATUS : TEMPORARY PLUGGED
RIG : DEEPSEA BERGEN
CONTRACTOR : ODFJELL DRILLING
PREPARED BY : S. BJERKENES, P. FURMYR, D. ALM,
T.F. KRISTENSEN, J.M. ØSTBY
APPROVED BY : I. JOLMA

Location map 15/12-6S



CASING DATA:

		MDRKB	TVDRKB
30"	AT	167.2M	167.2M
20"	AT	599.2M	599.2M
13 3/8"	AT	1700.0M	1695.7M
9 5/8"	AT	2743.0M	2727.6M
7"LIN TOP	AT	2575.0M	2560.1M
7"LIN	AT	3046.0M	3030.2M

LEAK OFF TESTS:

1.56 S.G.
1.82 S.G.
1.97 S.G.

VELOCITY SURVEY:

TOTALLY 63 LEVELS CHECKED
100 M LEVEL SPACING: 500 - 1500 MMD
50 M LEVEL SPACING: 1500 - 2300 MMD
25 M LEVEL SPACING: 2300 - 3050 MMD

THE SOURCE WAS LOCATED 45 M OFFSET OF THE WELL AND 5 M INTO THE SEA.

CONTRACTOR : SSL

LOGS RUN:

WIRELINE LOG CONTRACTOR : ATLAS WIRELINE SERVICES **MWD CONTRACTOR : ANADRILL**

DIFL/ACL-GR CDL-CNL-GR DIPLOG FMT MWD

1H : 1699.3 - 2756.5 m 1A : 2345.0 - 2756.5 m 1A : 2401.0 - 2755.5 m 1A : 2429.5 - 2470.0 m 5 RUNS 167 - 2560 m
2I : 2742.9 - 3048.7 m 2B*: 2743.0 - 3049.2 m 2B : 2743.0 - 3049.7 m 2B : 2976.0 - 3032.0 m 6 RUNS 2495 - 3019 m (SIDETRACK)

*ZDL/CN-SL

12 Press readings

CBL/VDL SPECTRALOG MLL-DLL-GR SWC-GR

1A : 95 - 1701.5 m
2B : 1450 - 2956.0 m 2A : 1505 - 1848 m 2A : 2742.9 - 3049.2 m 1A : 1951 - 2755 m
2B : 2755.5 - 3047 m

COMMENTS :

THE MWD WAS TWISTED OFF WHEN DRILLING AT 2560 mRKB. THE HOLE WAS PLUGGED BACK AND SIDETRACKED. KICK OFF DEPTH FOR SIDETRACK IS 2495 mRKB.

ATTEMTED 50 SIDEWALL CORES IN TWO RUNS, 4 MISSFIRED IN THE FISRT RUN.

THE WELL IS ONLY LOGGED WITH MWD DOWN TO 1700 mRKB. THE COMPLETION LOG IS A COMBINATION OF THE MWD AND THE ELECTRIC LOG.

ALL LOGS SHOWN ARE FILTERED, EDITED AND SPLICED.

LITHOLOGICAL SYMBOLS

⋯ SAND SANDSTONE	▦ LIMESTONE	~ MARL	FOSSILS GENL	▫ PYRITE	M MICA
☰ SILT SILTSTONE	▦ CHALK	v TUFF	~ SHELL FRAGS	* GLAUCONITE	K KAOLINITE
☰ CLAY CLAYSTONE	▨ DOLOMITE	c COAL	FORAMS	△ CHERT	☐

◔ STAIN ◑ FLUORESCENCE ◕ CUT FLUOR

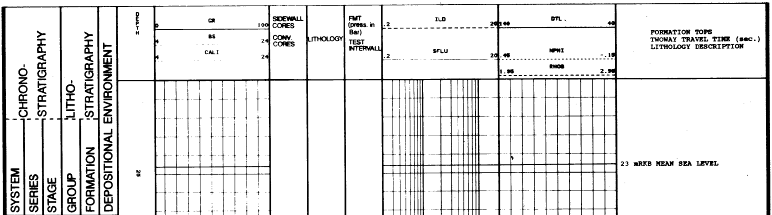
SIDEWALL CORES
○→ REC.
●→ REC. W/SHOWS
→ NO REC.

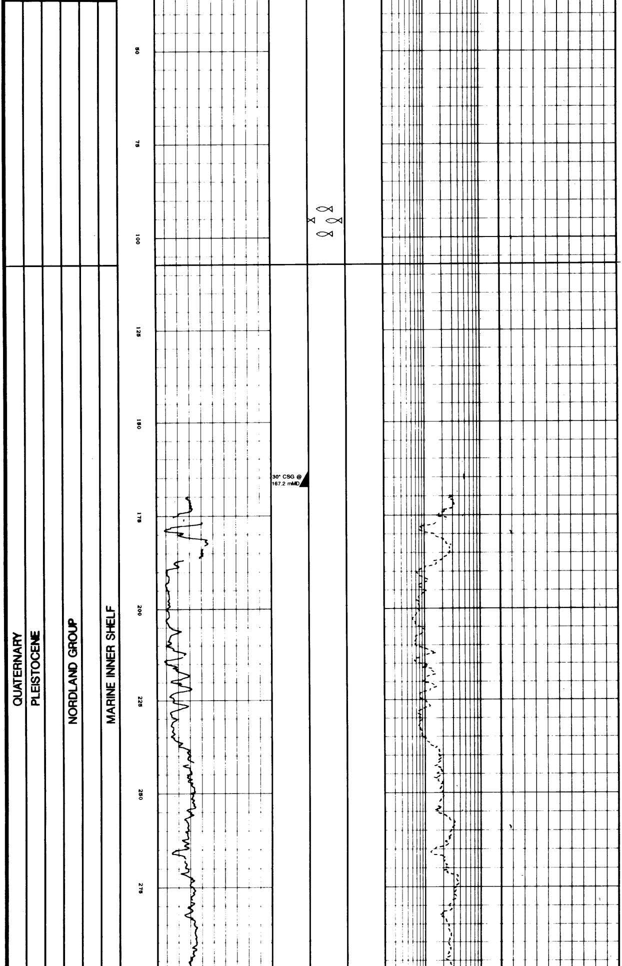
CORES
CORE NO. ▮

DST ①

FMT ←

CASING SHOE/LINER ◢ ◿



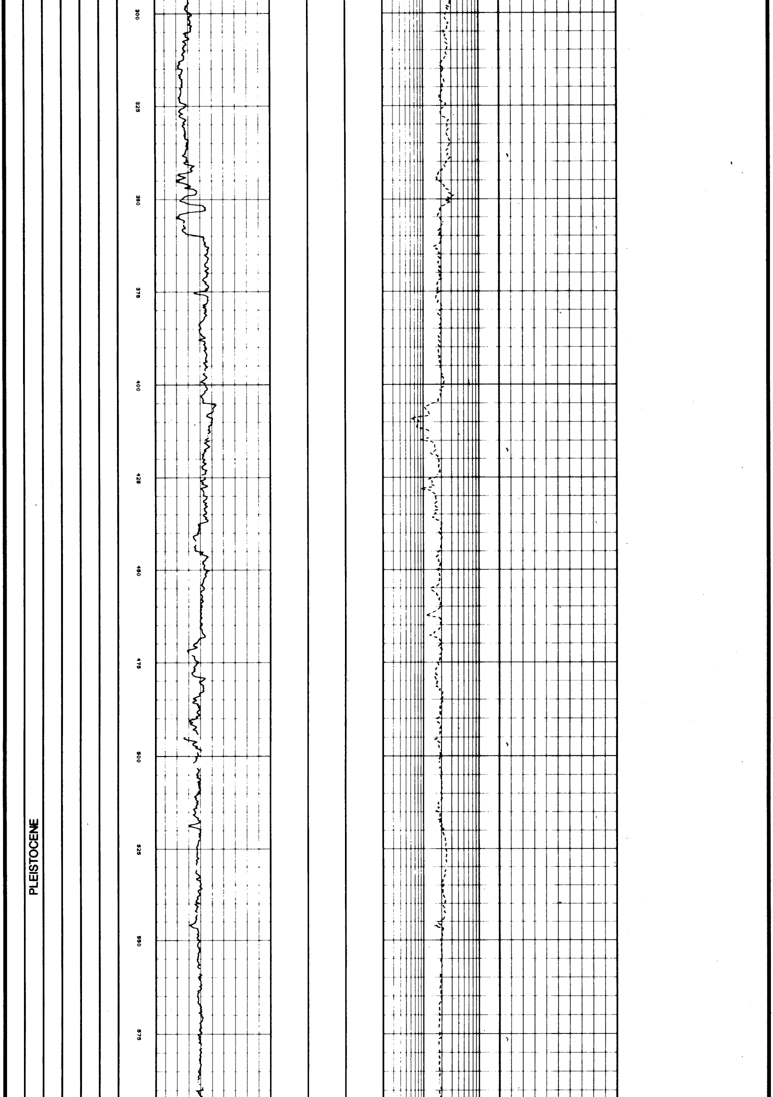


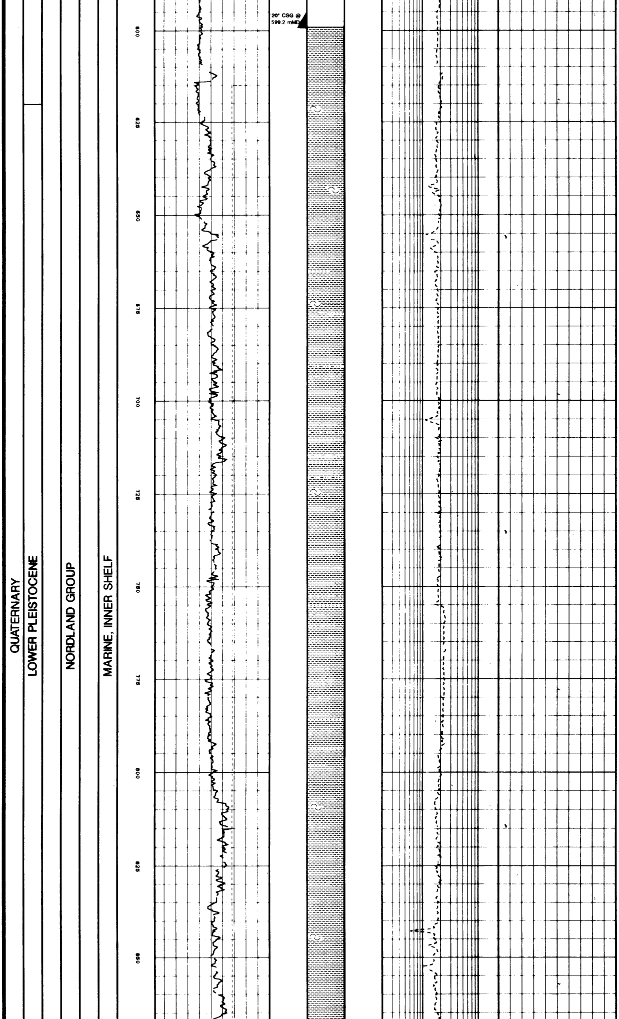
SEAFLOOR @ 107 mMD

DRILLED WITH ALL RETURNS
TO SEAFLOOR

30" CSG @ 167.2 mMD, 167.2 mTVD

LOGGED WITH MWD

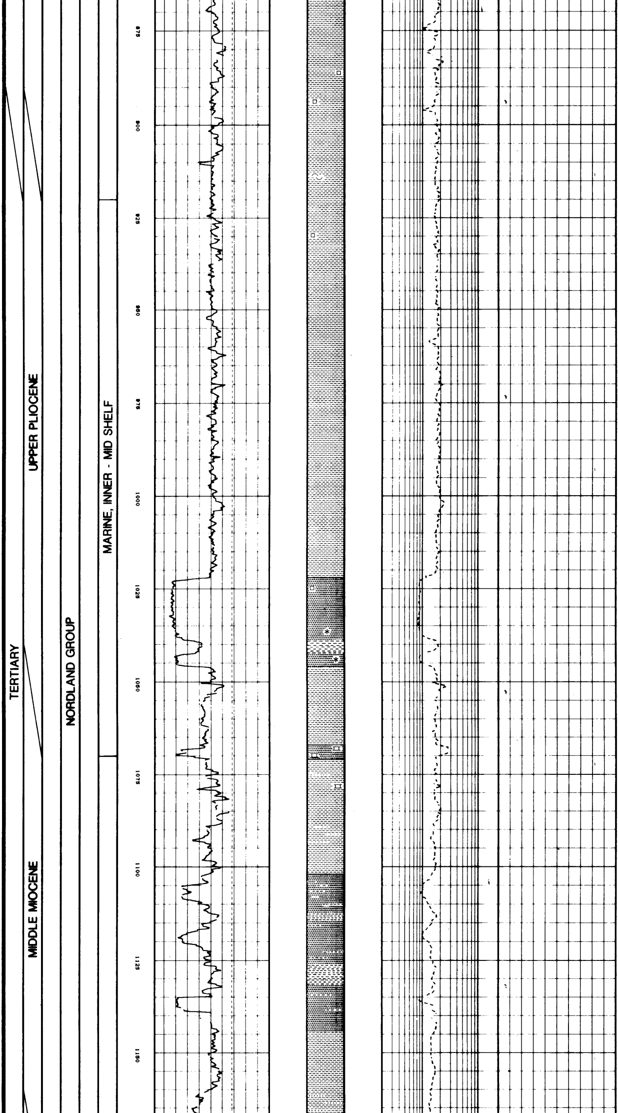




20" CSG @ 599.2 mMD, 599.2 mTVD
LOT = 1.56 g/cm³

CLAY: LT - MED GRY, SFT, STKY, SOL, HYGROT, AMORF, SL CALC, OCC SDY - V SDY, OCC SLTY - V SLTY

TR of SHELL FRAGS



TR of PYR, SHELL FRAGS

CLAYSTONE: OLV GRY, SFT - FRM, V SL SUBFISS

SAND: CLR QTZ, FN - MED, SUBRND, OCC SUBANG, LSE, W SRTD, OCC CALC CMT, FRI

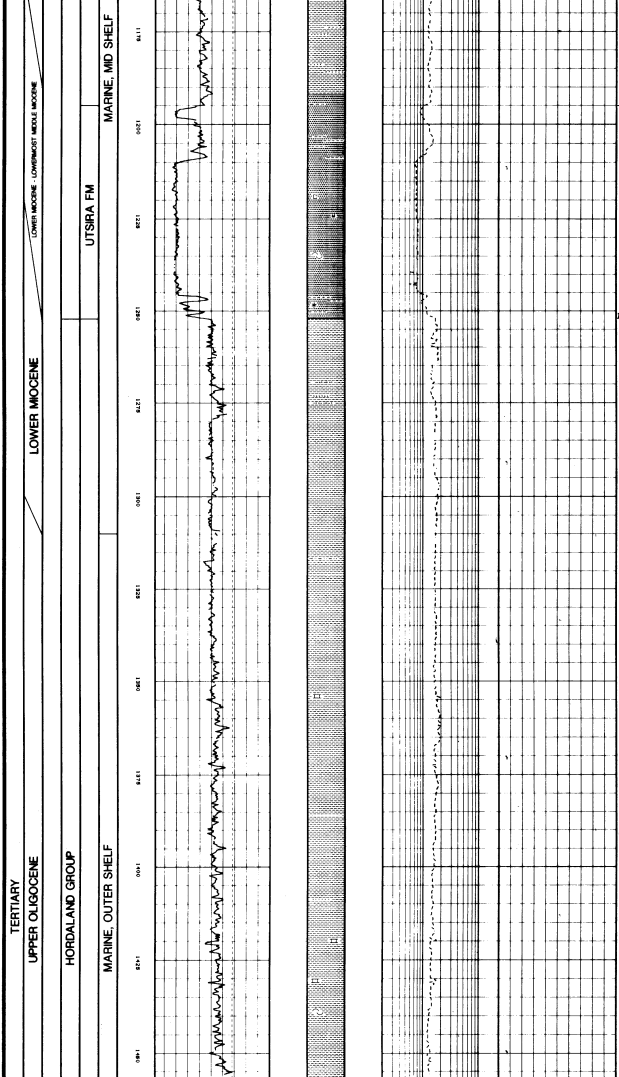
CLAYSTONE: OLV GRY, SFT - FRM, MICROMIC, CALC, V SL SUBFISS

TR of PYR, GLAUC

LIMESTONE: WH, FRM, MICRITIC

SAND: LT GRY, V FN, FRI - MOD HD, W SRTD, CALC CMT

CLAYSTONE: OLV GRY, BRN GRY - DSKY YEL BRN, FRM, BLKY, SUBFISS, SL MICROMIC, NON CALC



TOP UTSIRA FM 1195 mMD,
1191.4 mTVD, (-1171.4 mMSL)
(0.6133 sec)

SAND: CLR QTZ, FN - MED, RLY CRS, SUBRND, LSE, MOD - W SRTD

CLAYSTONE: A/A

SAND: CLR - YEL, OCC PNK QTZ, MED - CRS, SUBRND, OCC RND, LSE, MOD - W SPHER, W SRTD

BASE UTSIRA FM 1252 mMD,
1251.2 mTVD, (-1228.2 mMSL)
(0.6412 sec)

CLAYSTONE: DSKY BRN, RD BRN, MED BRN, SFT - FRM, OCC BLKY, SL SOL + AMORF I/P, SL MICROMIC, NON - SL CALC, SLTY I/P, OCC SUBFISS

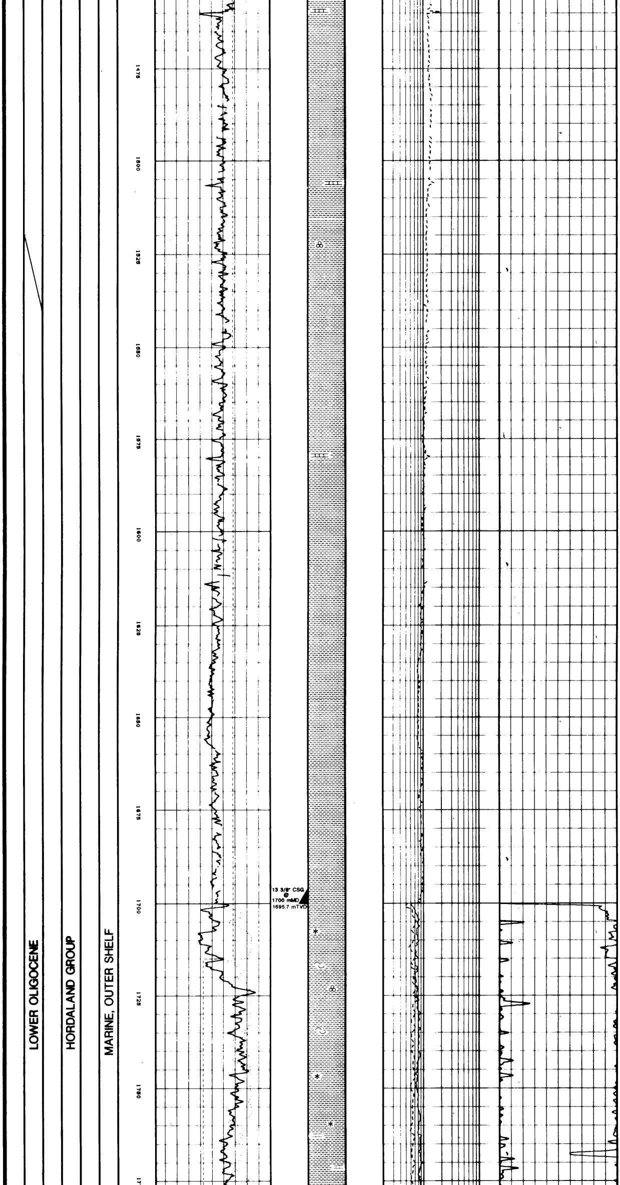
CLAYSTONE: MED - DK BRN, SFT, STKY, SOL, HYGROT, AMORF, NON CALC

SAND: CLR QTZ, V FN, SUBRND, LSE

LIMESTONE: DK BRN, V HD, BLKY, DENS

TR of FOSS FRAGS

CLAYSTONE: DSKY BRN, FRM, SL SUBFISS, SL CALC, MICROMIC, SDY I/P



LIMESTONE: A/A, ALSO LT GRY,
HD, MICRONIC, BLKY

LIMESTONE: OLV GRY - YEL BRN,
V HD, BLKY, DENSE

TR of FORAMS

CLAYSTONE: DK YEL BRN - DSKY
YEL BRN, SFT - FRM, SOL
I/P, AMORF, SL MICROMIC,
SLTY - SDY, NON CALC -
CALC

13 3/8" CSG @ 1700 mMD,
1695.7 mTVD
LOT = 1.82 g/cm³

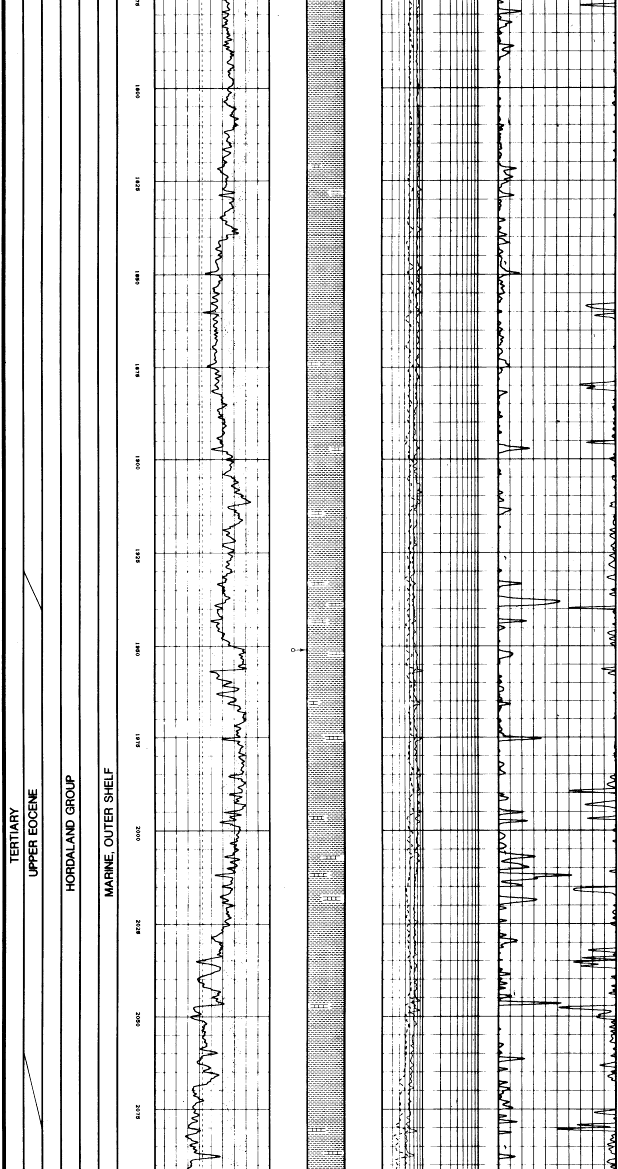
CLAYSTONE: DK YEL BRN, FRM,
BLKY, SL MICROMIC, NON -
SL CALC, SL SLTY I/P,
SUBFISS I/P

SAND: CLR - MLKY WH QTZ, MED -
CRS, SUBRND, LSE

TR of GLAU, FORAMS, SHELL FRAGS

LIMESTONE: LT BRN - GRY ORNG -
V PA ORNG, FRM - MOD HD,
BLKY, CRYPTOXLN MUDST, OCC
DOL, HD

CLAYSTONE: DK YEL BRN,
MOD BRN, A/A



CLAYSTONE: A/A

LIMESTONE: A/A, OCC MED BRN, MOD HD, BLKY - FLKY, ARG

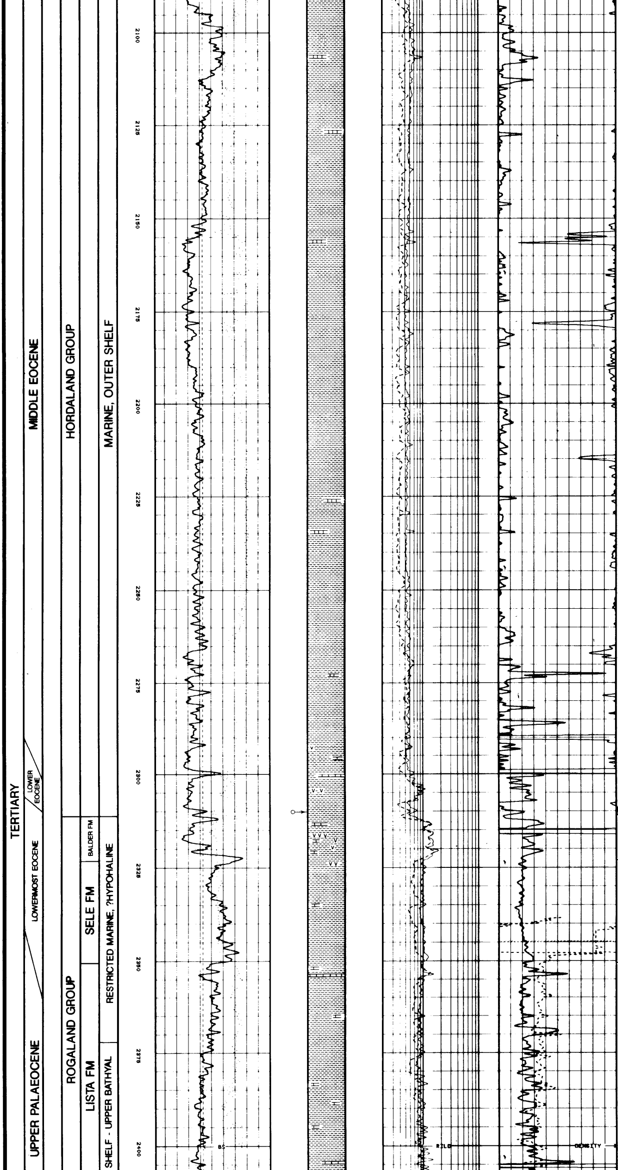
TR of MICROFOSS

CLAYSTONE: A/A

LIMESTONE: A/A, ALSO DK RD BRN, TRNSP, MOD HD, BRIT, BLKY, XLN

TR of MICROFOSS, FORAMS

CLAYSTONE: GN GRY - DK GN GRY, OLV GRY - LT OLV GRY, FRM, BLKY, SL MICROMIC, NON CALC, OCC SUBFISS



CLAYSTONE: MED BL GRY - GN GRY, DK GRY - MED DK GRY, FRM, SUBFISS, SPLIN - BLKY, MICROMIC, NON CALC

LIMESTONE: WH, FRM - MOD HD, XLN, OCC GRY WH, FRM, V ARG

CLAYSTONE: MED BL GRY, LT - MED GRY, OCC TF, FRM, SUBFISS I/P, SL PYR I/P

LIMESTONE: WH - LT YEL WH, LT BRN, FRM, SL ARG, XLN I/P

CLAYSTONE: DSKY YEL BRN, DK YEL BRN, BL GRY, LT GRY, I/P MOTT/VGT, I/P BND, FRM - MOD HD, MICROMIC, MICROPYR I/P, SUBFISS - BLKY, OCC TF, NON CALC

TOP BALDER FM. 2311 mMD.
2298.5 mTVD, (-2275.5 mMSL)
(1.1354 sec)

CLAYSTONE: MULTICOL, A/A
LIMESTONE: PA YEL BRN, MOD HD, XLN
TUFF: BL GRY, LT GRY, MOTT, FRM, OCC BLK SPKS, OCC V FN DISSEM PYR, NON CALC

TOP SELE FM. 2323 mMD.
2310.4 mTVD, (-2287.4 mMSL)
(1.1407 sec)

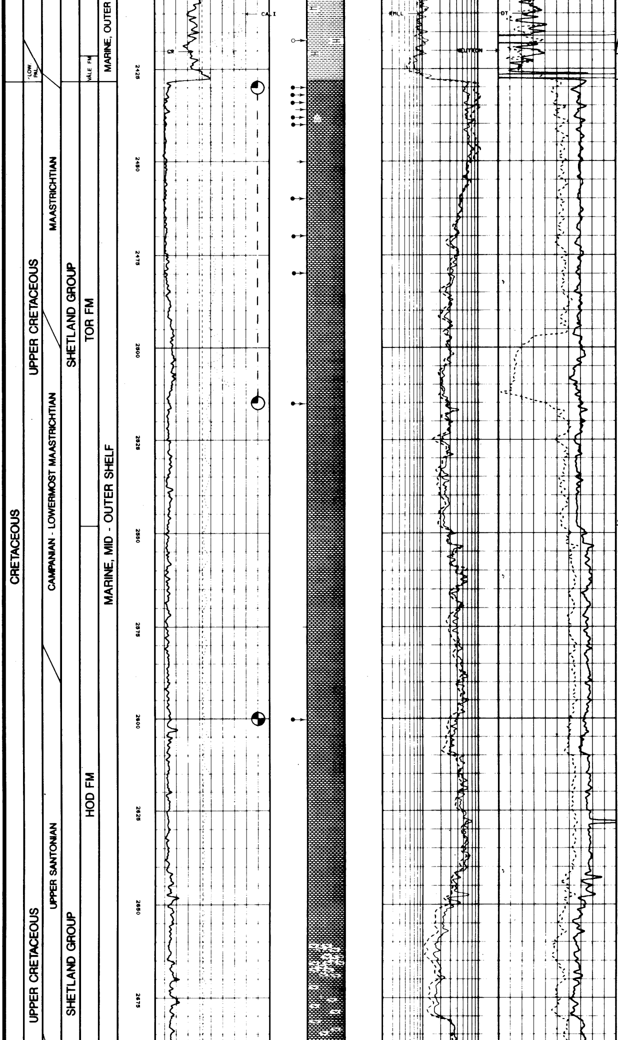
CLAYSTONE: MED GRY - OLV GRY, FRM, BLKY - SPLIN, SUBFISS, NON CALC
TUFF: A/A
LIMESTONE: A/A

TOP LISTA FM. 2350.5 mMD.
2337.5 mTVD, (-2314.5 mMSL)
(1.1518 sec)

CLAYSTONE: OLV GRY - MED GRY, OCC GN GRY, OCC BRN GRY, BLKY, OCC SUBFISS AND SL SPLIN, FRM, SL MICROMIC, NON CALC, OCC BND/MOTT AND SL TF

LIMESTONE: V PA ORNG, OCC LT BRN, FRM, BLKY, MUDST TEX, OCC CHKY TEX

CLAYSTONE: MORE MOD BRN, BRN GRY, ELSE A/A



TOP VÅLE FM. 2421 mMD.
2407.4 mTVD, (-2384.4 mMSL)
(1.1789 sec)

CLAYSTONE: MED GRY, OLV GRY, MOD RD BRN, ELSE A/A

TOP TOR FM. 2428 mMD.
2414.4 mTVD, (-2391.4 mMSL)
(1.1811 sec)

CHALKY LIMESTONE: WH, OFF-WH, OCC PA PNK, OCC V LT GRY - BL WH AND SL ARG, MOD HD - FRM, BLKY, CRYPTOXLN MUDST, OCC MOD HD AND MICROXLN

SIDETRACKED FROM 2495 m

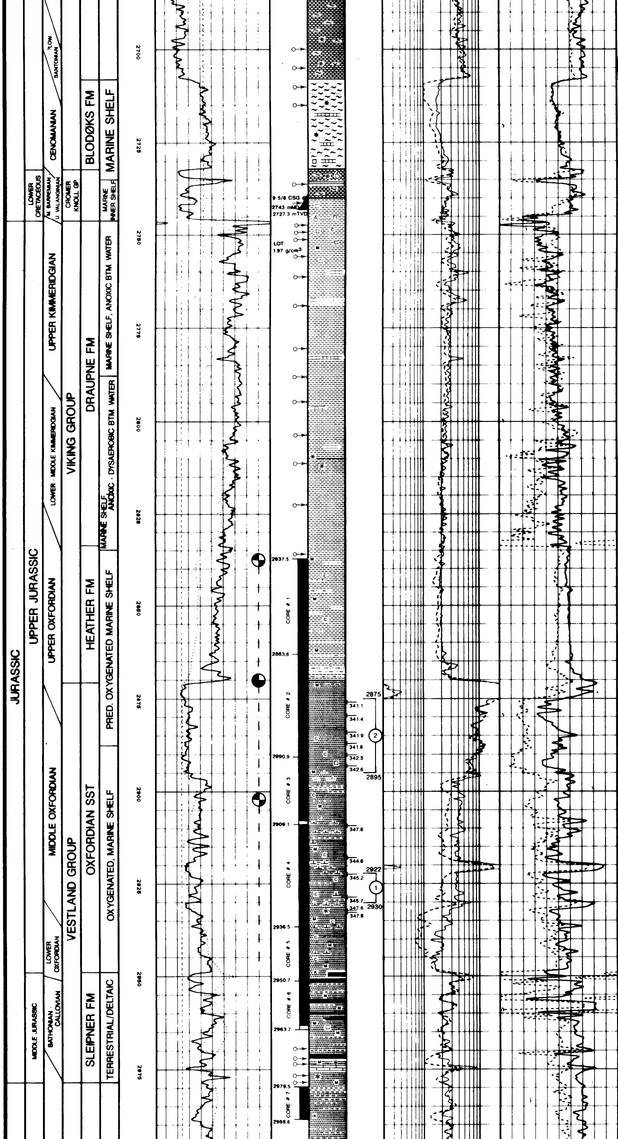
TOP HOD FM. 2548 mMD.
2533.3 mTVD, (-2510.3 mMSL)
(1.2109 sec)

CHALKY LIMESTONE: WH, OFF-WH, OCC PA PNK, OCC V LT GRY - BL WH, FRM - MOD HD, BLKY, CRYPTOXLN MUDST, OCC SL ARG

MARL: LT GRY, PNK GRY, SFT, AMOR, SL STKY, SL SLTY - V FN SDY, BLK SPKS

LIMESTONE: OFF-WH, PNK GRY, PA PNK, OCC V LT GRY - BL WH, FRM - SFT, BLKY - AMOR, PRED MICROXLN WKST, OCC V AREN/SUC AND MICROGLAU, ALSO MICROMIC, OCC ARG GRAD TO MRL

MARL: GEN V AREN AND MICROGLAU, MED LT GRY, OCC MED - DK GRY RLY MOD BRN, SFT, AMOR, SL STKY, MICROMIC



TOP BLODOKS FM. 2700 mMD.
2692.6 mTVD, (-2669.6 mMSL)
(1.2479 sec)

MARL: PRED LT GRY, LT OLV GRY, GN GRY, LESS RD BRN, GEN V AREN/SDY, LESS AREN WHEN RD BRN, V MICROGLAU WHEN GRN GRY, SFT - FRM, BLKY - AMOR, MICROMIC I/P

LIMESTONE: OFF-WH, V LT GRY, PNK GRY, PA PNK, FRM - SFT, OCC MOD HD, BLKY - AMOR, OCC AREN/SDY AND MICROGLAU, OCC CHKY, OCC ARG GRAD MRL

TR of GLAU

TOP CROMER KNOLL GP. 2732 mMD.
2716.6 mTVD, (-2693.6 mMSL)
(1.2553 sec)

CLAYSTONE/SHALE: GRY BLK, OCC DSKY RD AND GRY RD, FRM - MOD HD, SUBFISS - BLKY, OCC FISS, NON CALC - CALC, SL MICROMIC

MARL AND LIMESTONE: A/A

TR of PYR, MICROFOSS

9⅝ CSG @ 2743 mMD, 2727.6 mTVD

TOP DRAUPNE FM. 2746 mMD.
2730.6 mTVD, (-2707.6 mMSL)
(1.2591 sec)

CLAYSTONE: OLV BLK, DK BRN GRY - DSKY YEL BRN, BRN GRY - D GRY, FRM - MOD HD, SLTY - I/P V SLTY - OCC GRAD TO SLTST, SDY I/P, SL - V CARB, MICROPYR - V MICROPYR, MICROMIC I/P, PRED NON CALC, OCC SL - MOD CALC

SAND: CLR - TRNSL - MLKY WH, OCC YEL QTZ, V FN - FN, OCC MED, MOD SRTD, SUBANG - SUBRND, LSE, MSTLY DISPERSED IN THE CLYST

LIMESTONE: LT BRN GRY, OCC OFF-WH, ARG, SDY I/P, MICR, BLKY, ALSO TRNSL W - TRNSL GRY BRN - YEL BRN, XLN, BLKY, I/P CLR - L YEL BRN CALCITE

CLAYSTONE: MED LT GRY - LT BRN GRY, OCC LT GN GRY - BL GRY, FRM, TR GLAU, I/P SLTY - SDY, OCC V SDY GRAD TO SST

SANDSTONE: LT GRY BRN, CLR - V LT BRN QTZ, V FN, MOD SRTD, SUBANG, PRED CALC CMT, I/P GRAD TO AREN LST, MOD HD

DOLOMITE: MOD BRN, HD, XLN

TOP HEATHER FM. 2834 mMD.
2818.5 mTVD, (-2795.5 mMSL)
(1.2867 sec)

CLAYSTONE: MED DK GRY, MOD HD, SUBFISS - BLKY, SLTY, SDY, MICAC, SL MICROPYR, CARB, NON CALC

SILTSTONE: MED DK GRY, V ARG & V SDY, I/P GRAD TO V F SST, HD, V CARB & MICAC, NON CALC

SANDSTONE: MED GRY - MED DK GRY, CLR - SMKY QTZ, V FN - MED, SUBANG - SUBRND, P SRTD, ARG - SLTY MTRX, MOD - W SIL CMT, HD, MICAC & CARB, PR - V PR VIS POR

TOP OXFORDIAN SST. 2870.5 mMD.
2854.9 mTVD, (-2831.9 mMSL)
(1.2966 sec)

SANDSTONE: PA - DK YEL BRN, OCC DSKY YEL BRN, CLR - SMKY QTZ, PRED MED, ALSO V FN - V CRS, SUBANG - SUBRND, CRS FRAG I/P RND, MOD - OCC PR SRTD, SL - I/P MOD ARG & SLTY MTRX, WK - I/P MOD SIL CMT, FRI - I/P MOD HD, TR - OCC ABUN CARB GRNS & FRAGS, TR MICA, FAIR - GD VIS POR, OIL STAINED

SANDSTONE: V FN - MED, OCC MED - V CRS, ELSE A/A, OCC MED LT - MED GRY, W CALC/DOL CMT, V HD, NO VIS POR, NO OIL STAIN

SANDSTONE: SIL CMT, CALC/DOL CMT, ELSE A/A

SANDSTONE: V FN - FN, OCC MED, SUBANG, W SIL CMT, NO - PR VIS POR, SL MICAC

TOP SLEIPNER FM. 2949 mMD.
2933.3 mTVD, (-2910.3 mMSL)
(1.3195 sec)

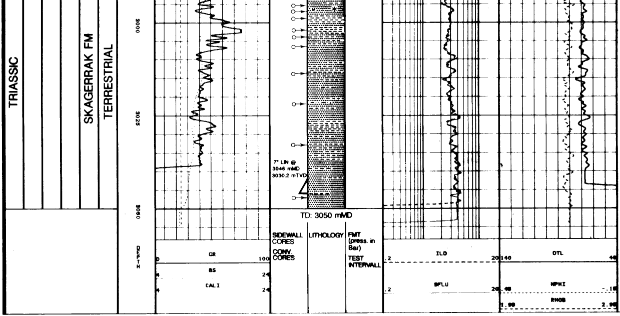
COAL: BLK - BRN BLK, ARG & I/P EARTHY, SHINY, I/P BRTL

CLAYSTONE: MOD BRN - GRYSH RD, V SLTY & SDY, GRAD TO SST, SFT - I/P FRM, CARB I/P, NON CALC

SILTSTONE: BRN BLK, V ARG, V CARB, COAL FRAGS, HD, SL MICAC, NO VIS POR

SANDSTONE: LT GRY, CLR - MLKY WH QTZ, FN, OCC V FN - CRS, SUBANG - SUBRND, PR SRTD, KAOL MTRX, W SIL CMT, W HD, NO VIS POR, OCC MED GRY, OCC GRAD QTZIT

TOP SKAGERRAK FM 2978.5 mMD.
2962.8 mTVD, (-2939.8 mMSL)
(1.3279 sec)



SANDSTONE: LT OLV GRY, CLR - SMKY - TRNSL QTZ, WH - PNK - TRNSP LT BRN, V FN - FN, I/P FN - MED, SUBANG - SUBRND, PR MOD SRTD, LSE, I/P SL DOL/CALC CMT, W SIL CMT & MOD HD - HD, OCC KAOL, SLT MTRX, SL CARB, NO - V PR VIS POR

CLAYSTONE: MOD BRN, DK RD BRN, DK BRN GRY, FRM - MOD HD, BLKY, CARB, MICROMIC, NON - V SL CALC, OCC CALC, OCC SLTY - SDY, I/P GRAD TO SLTST

SILTSTONE: WH - LT BRN, FRI - MOD HD, SDY, V KAOL CMT, SL CALC I/P, ARG

7" LIN @ 3046 mMD, 3030.2 mTVD

TD: 3050 mMD, 3034.2 mTVD,
(-3011.2 mMSL)
(1.3438 sec)

TD LOGGER: 3050.4 mMD