SIMON PETROLEUM TECHNOLOGY

WELL: 2/8-12S

Print: 7646 AE	Units: [✓ M] F	Top	Bottom	Scale	TD
Length: 44 FT	Initials:	185	5315	1:500	5300

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY
SPT

COMPLETION LOG

COMPOSITE WELL LOG

WELL: 2/8-12
A.P.I. NO.: 97 577 00753 00

MD-VERSION

COMPANY:	AMOCO NORWAY OIL COMPANY
COUNTRY:	NORWAY
AREA:	NORTH SEA /CENTRAL GRABEN
LICENCE:	006
BLOCK:	2/8
NPD PERMIT NO:	**595**

GROUP INTEREST:

AMOCO:	28.33% (op)
AMERADA:	28.33%
ENTERPRISE	28.33%
NOCO:	15%

GEOGRAPHICAL COORDINATES SURFACE: (derrick coordinates):

LAT: 56°23'48.79"	UTM: 6,250,478.02
LONG: 03°26'15.27"	527,011.41

K.B. ELEVATION:	25m
WATER DEPTH:	68.7m
TOTAL DEPTH:	5300.0m MD RKB 5143.8m TVD RKB -5118.8m TVD SS
BOTTOM HOLE FORMATION:	TRIASSIC

WELL CLASSIFICATION: PRE-SPUD: **DEVIATED EXPLORATION WELL**

DATE ON LOCATION:	**NOV 5, 1988**
SPUD DATE:	**NOV 7, 1988**
DATE T.D. REACHED:	**APRIL 18, 1989**
COMPLETION DATE:	**APRIL 27, 1989**
RIG RELEASE DATE:	**APRIL 27, 1989**

STATUS: P&A. DRY HOLE WITH OIL SHOWS

TESTS: NIL

CORES: 1

RIG:	DYVI STENA
DRILLING CONTRACTOR:	SEATEC
LOGGING CONTRACTOR:	SCHLUMBERGER/TELECO/ GEARHART /SSL
MUD LOGGING CONTRACTOR:	EXLOG
WELLSITE GEOLOGIST	M.SALTNES/H.RESTAD
CONTRACTORS :	(BAROID/SPERRY-SUN)
AMOCO GEOLOGISTS:	F.ØVERDAL/P.E.ØVERLI/ A.ØSTVOLD
COMPILED BY:	F.ØVERDAL
VERTICAL SCALE:	1 : 500

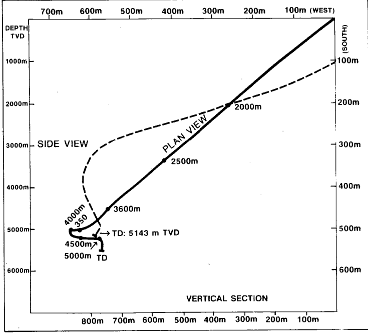
CASING RECORD

30" CASING AT	: 178.0m MD	,178.0m TVD RKB
20" CASING AT	: 904.0m MD	,903.9m TVD RKB
13 3/8" CASING AT	: 2286.0m MD	,2196.4m TVD RKB
11 3/4" LINER AT	: 3360.0m MD	,3210.4m TVD RKB
9 5/8" CASING AT	: 4024.0m MD	,3872.9m TVD RKB
7" LINER AT	: 5003.0m MD	,4848.2m TVD RKB

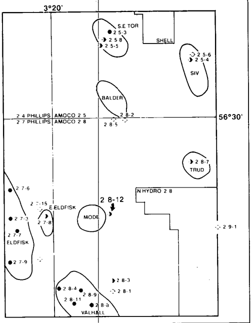
DRILLING FLUID DATA

FLUID TYPE	INTERVAL
Seawater	36"
Seawater	26"
Seawater PAC/PHPA	17 1/2"
Seawater PAC/PHPA.	12 1/4"
Seawater, Low Lime	10 5/8"
Freshwater, Hoestadrill	8 1/2"
Freshwater, Hoestadrill	5 7/8"

WELL PROFILE



WELL LOCATION MAP

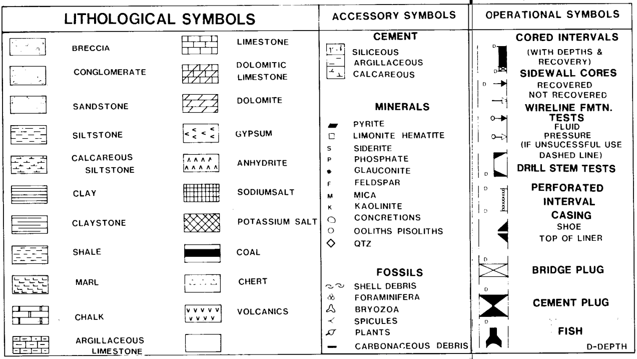


SUMMARY RECORD OF CORES, SIDEWALL CORES, DST'S & RFT'S

OPERATION	TOP DEPTH	BTM. DEPTH	RECOVERY/REMARKS
CORE No 1	**5226m MD**	**5244m MD**	**Recovered: 17.08m/95%**
CST, Run 1	**2878m MD**	**3358m MD**	**60 shots ,Lost : 4, Empty : 5, Recovered : 51**
CST, Run 2	**3397m MD**	**4020m MD**	**30 shots ,Lost : 11, Empty : 3, Recovered : 16**
CST, Run 3	**4035m MD**	**5004m MD**	**60 shots ,Lost : 9, Empty : 24, Recovered : 27**
CST, Run 4	**4113m MD**	**4980m MD**	**30 shots ,Lost : 19, Empty : 3, Recovered : 8**
CST, Run 5	**5010m MD**	**5302m MD**	**45 shots ,Lost : 22, Empty : 16, Recovered : 7**
RFT, Run 1	**3067m MD**	**3309m MD**	**14 stations, 6 tight, 3 supercharged, 1 seal failure, 4 successful press. recordings.**
RFT, Run 2	**3984m MD**	**3988.6m MD**	**4 stations, All tight.**

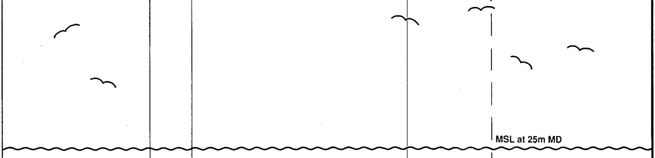
WIRELINE LOGGING PROGRAM

DATE	RUN	LOGS	DEPTH INTERVAL	B.H.T. °F	CIRC TIME HR.	TIME SINCE CIRC HR.
MWD TELECO LOGS:						
10/11-88 - 31/3-89	1-41	GR,RES + DIRECTION	180.0-2297.0m and 3268.0-5000.0mMD	—	—	—
Schlumberger Wireline logs:						
27/12-88	1	ISF/BHC/GR/MSFL	2286.0-3357.0m MD (GR to 103.7)	—	4	10 1/2
28/12-88	1	LDL/CNL/GR/CAL	2286.0-3358.0m MD	185	3	9
29/12-88	1	FMS/GR	3000.0-3359.0m MD	191	3	23 1/2
30/12-88	1	RFT/GR **(14 stations)**	3067.0-3309.0m MD	188	3 1/2	**5 1/2**
30/12-88	1	CST/GR (60 shots,)	2878.0-3358.0m MD	188	3 1/2	**17 1/2**
6/1-89	1	BGT/GR	2283.0-3359.9m MD	—	—	—
4/2-89	2	BHC/GR/CAL	3362.0-3789.0m MD	215	8 1/2	10 1/2
4/2-89	2	DIL/GR/SP	3362.0-3789.0m MD	224	8 1/2	16
9/2-89	3	DIL/BHC/GR/SP	3789.0-4022.5m MD	222	2 1/2	1
10/2-89	2	LDL/CNL/GR/CAL	3362.0-4023.5m MD	234	2 1/2	15
11/2-89	2	RFT/GR (4 stations)	3984.0-3988.6m MD	—	**3 1/2**	**7 1/2**
11/2-89	2	SHDT/GR	**3362.0-4020.0m MD**	—	**3 1/2**	**12**
11/2-89	2	CST/GR (30 shots)	3397.0-4020.0m MD	—	—	—
1/3-89	1	GCT- GYRO SURVEY	100.0 - 4009.0m MD	118	1/2	12
21/3-89	4	DIL/BHC/GR/AMS	4028.0-4765.3m MD	285	3 +	**10**
21/3-89	3	SHDT/GR	4028.0- 4600.0m MD	288	3 +	16 1/2
31/3-89	4	SHDT/GR	4550.0-5004.0m MD	329	5 1/2	**16**
31/3-89	5	DIL/BHC/GR	4765.0-5004.0m MD	332	5 1/2	23
2/4-89	1	ULSEL	4024.0-5003.0m MD	—	**3+**	**14 1/2**
3/4-89	3	CST/GR (60 shots)	4035.0-5004.0m MD	—	—	—
3/4-89	4	CST/GR (30 shots)	4113.0-4980.0m MD	—	—	—
18/4-89	6	DIL/BNC/GR	5005.5-5304.0m MD	335	3	12 1/2
19/4-89	3	**FDC/CNL/GR**	5005.5-5302.0m MD	340	3	21
19/4-89	5	SHDT/GR	5005.5-5300.0m MD	350	3	33 1/2
20/4-89	1	VSP (SSL)	600.0-5296.0m MD	—	3	**45**
21/4-89	5	CST/GR (45 shots)	5010.0-5302.0m MD	—	—	—

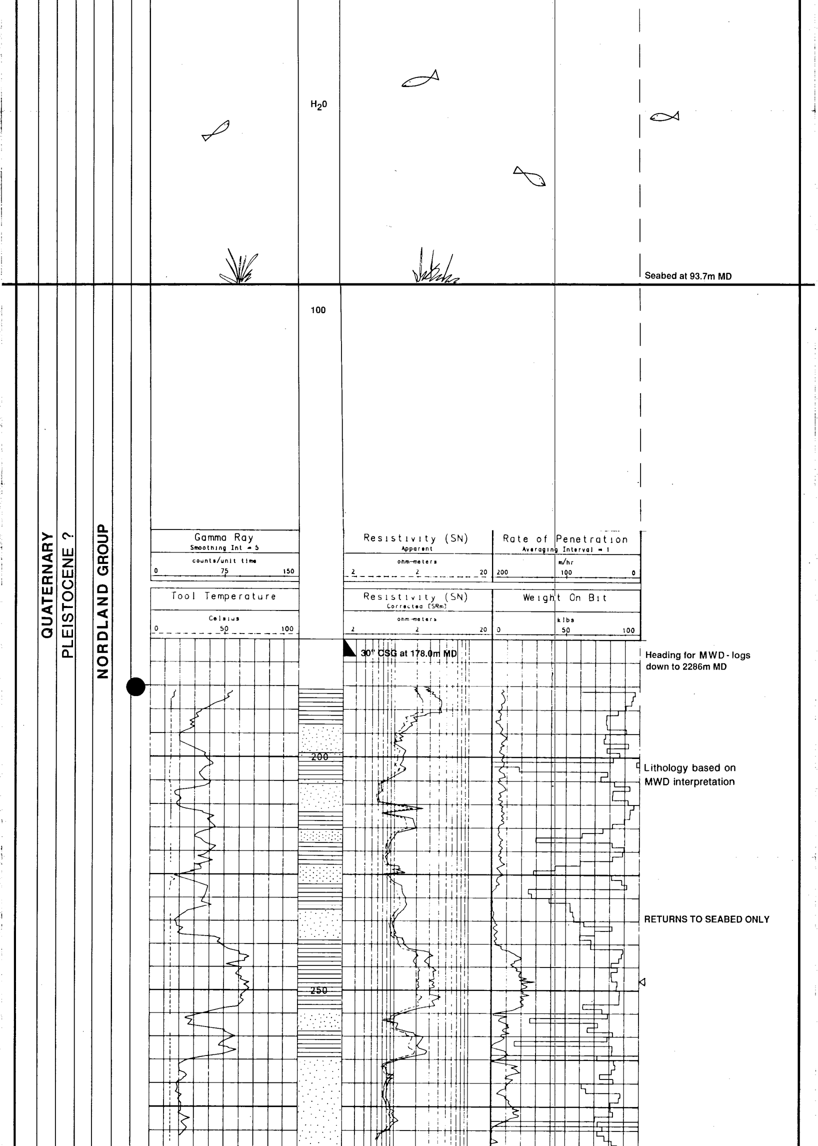


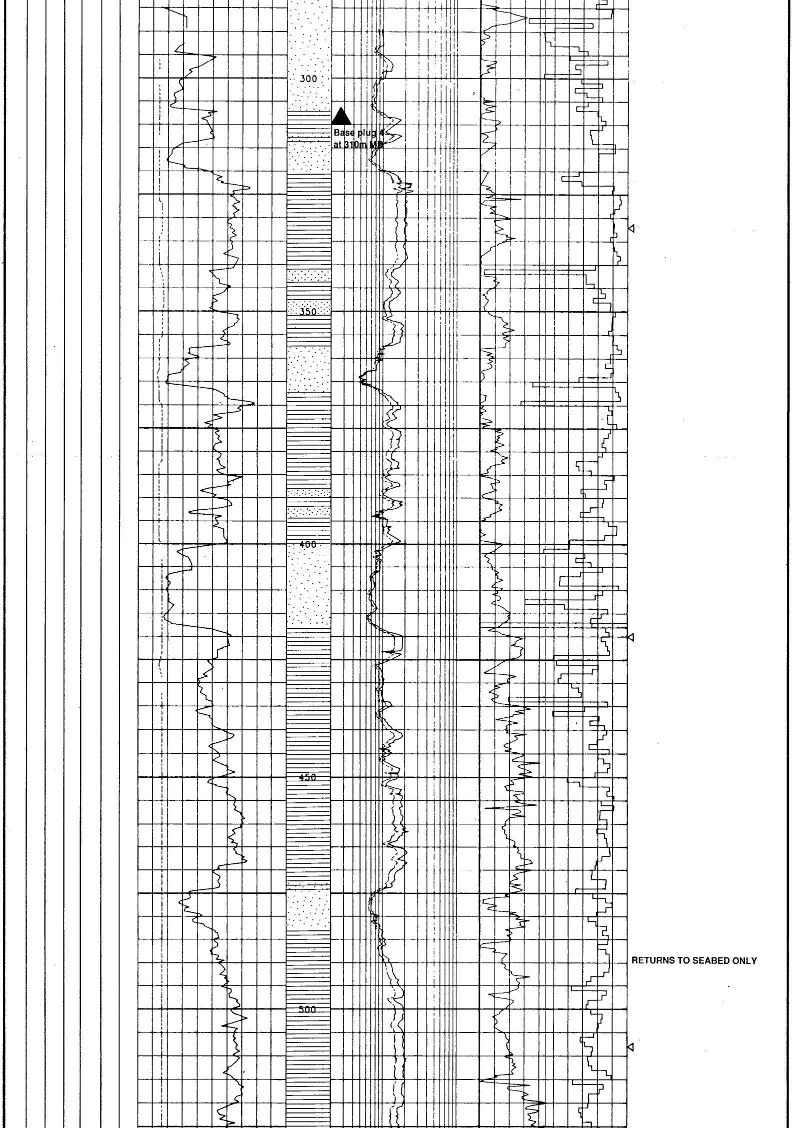
◒ **SHOW OR STAIN** ◓ **HYDROCARBON CUT** ◑ **FLUORESCENCE** ☼ **GAS SHOWN**

SYSTEM	SERIES	STAGE (paleo-dating performed by Paleoservices)	GROUP	FORMATION	MEMBER	GAMMA RAY (API UNITS) SPONTANEOUS POTENTIAL (MV)	DEPTH meters RKB	RESISTIVITY OHMS-M DEEP INDUCTION R_{ild} MEDIUM INDUCTION R_{ilm} SPHERICALLY FOCUSED RESISTIVITY R_{sfl}	INTERVAL TRANSIT TIME ΔT MICROSECONDS PER FOOT (μs/F) TENSION (LBF)	LITHOLOGICAL DESCRIPTION AND REMARKS THIS HEADING IS FOR WIRELINE LOGS BELOW 2286m MD
						GR (API) 0.0 150.0 SP (MV) -80.00 20.00 CALIPER BIT SIZE		ILM/ ILD (OHMM) 20.00 2000. SFLU (OHMM) 20.00 2000. ILM/ ILD (OHMM) 0.2000 20.00 SFLU (OHMM) 0.2000 20.00	DTL (US F) 240.0 140.0 DT (US F) 240.0 140.0 LBF 0.0 10000.0 DTL (US F) 140.0 40.0 DT (US. F) 140.0 40.0	

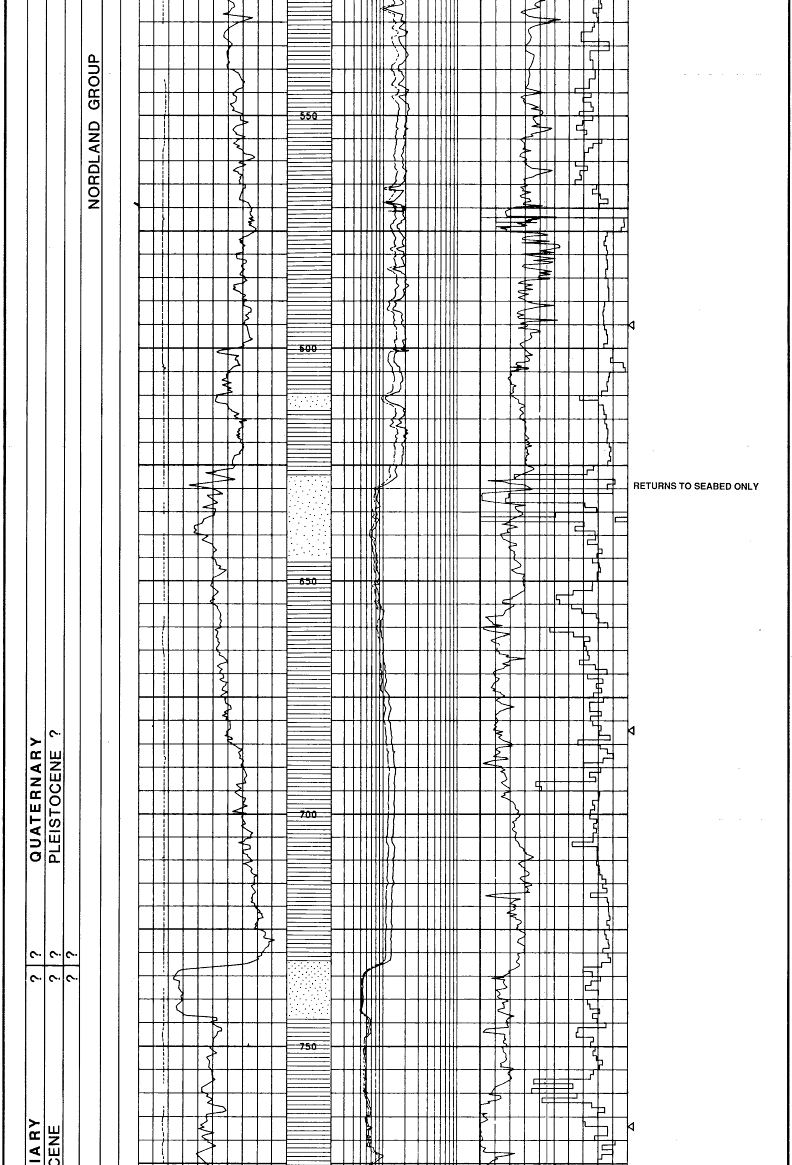


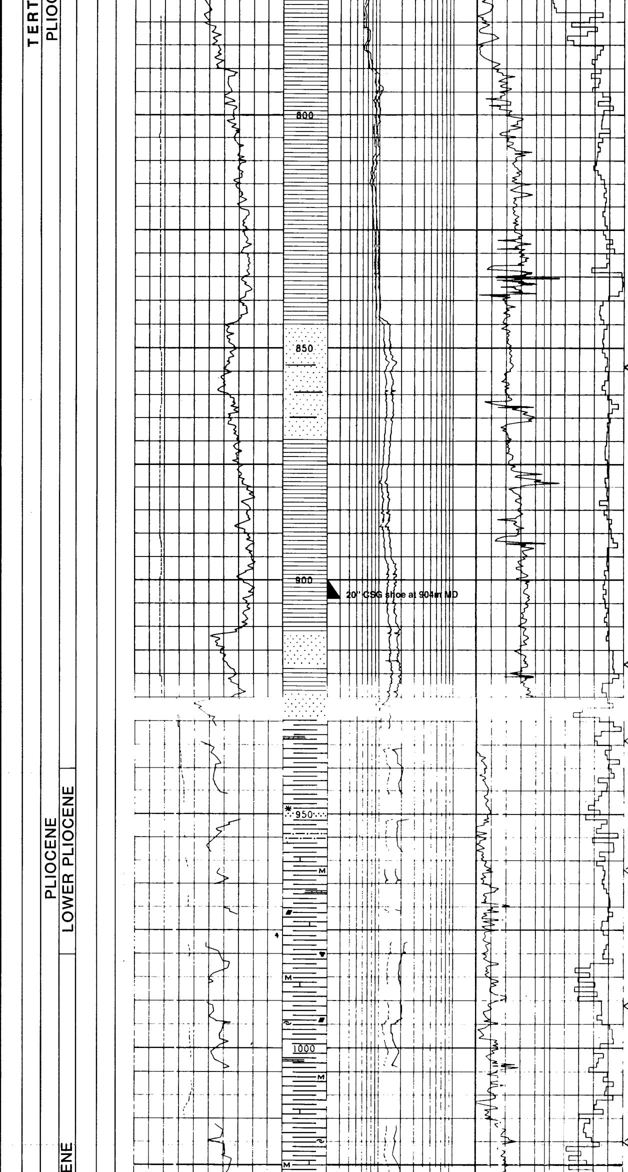
MSL at 25m MD





RETURNS TO SEABED ONLY





RETURNS TO SEABED
DOWN TO 20" CSG SHOE

LOT: 15.1ppg (EMW)

MW: 11.5ppg

CLY CLYST:
OLV GRY-MED OLV GRY, SFT, STKY, AMORPH, SLTY W/DISSEM MICMICA, PYR. CARB MAT, V SL CALC I.P.

TR LST:
V LT GRY-CRM, BLKY, MOD HD-FRI, ARG. MICRITE. PLTY I/P, PROBABLY BIOCLAST ORIGIN

TR SST:
MED-DK GRY, FM, ANG-SBANG, MOD SRTD, MOD-W CALC CMTD, ARG ASSOC W/CARB MAT, GLAUC

SLTST:
DK GRY-DK GRNSH GRY, SFT-FRI, BLKY, ABUND MICMICA, ALSO DISSEM PYR. CARB MAT, SL CALC.

TR FREE PYR

TR LST:
V LT GRY-CRM, PLTY, MICRITE, FOSS FRAGS, ALSO CLR, WH, XLN, CALCITE

TR PYRITISED WORM TUBES, FORAMS

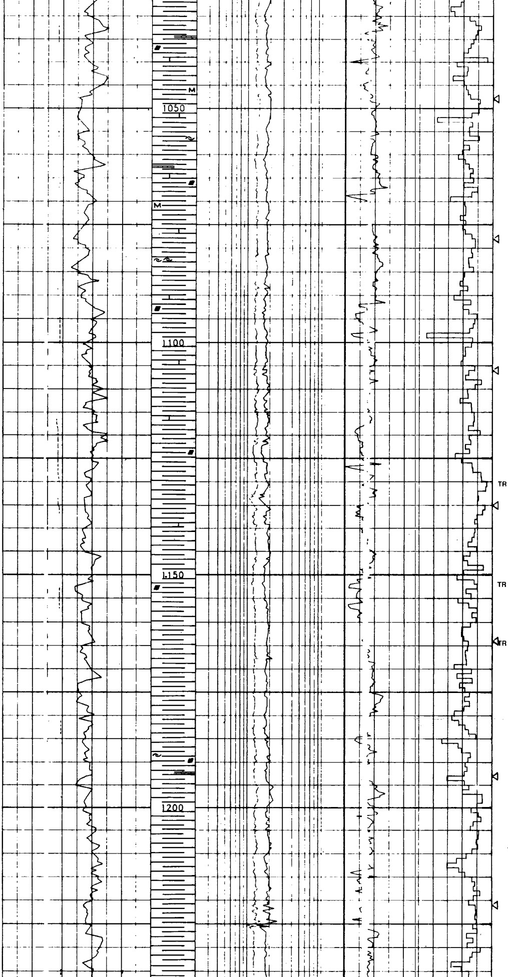
CLY CLYST:
OLV GRY-MED OLV GRY, SFT, STKY, AMORPH, SL SLTY DISSEM PYR, CARB MAT, MICMICA, CALC-CALC

TERTIARY

LOWER PLIOCENE - UPPER MIOC

NORDLAND GR OUP

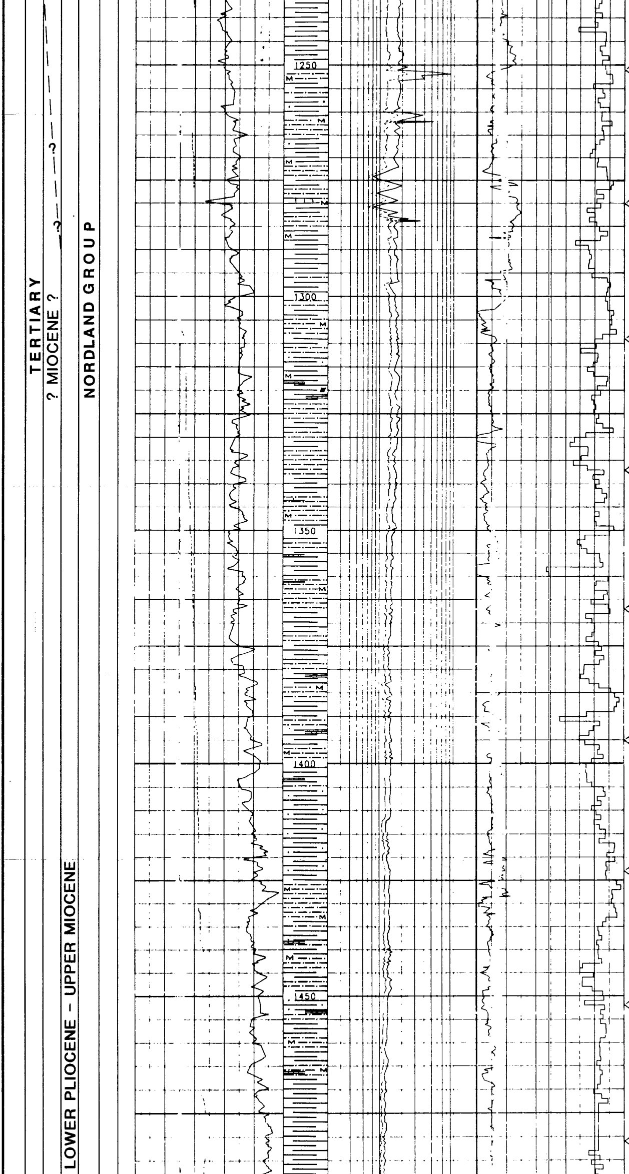
? PLIOCENE ?



TR LST:
V LT GRY-CRM, MICRITIC, PLTY, FOSS FRAGS, ALSO CLR, XLN, SPARITE AND DK BRN, HD, SLTY, BLKY VARIETY.

TR SHELL DEBRIS:
CRM-V LT GRY, PLTY, ARG, MICRITE.

TR FREE PYRITE



CLY/CLYST:

DK GRN GRY-DK OLV GRY, AMORPH, SFT, STKY, HYD, LOC SLTY. PREDOM NON CALC,OCC SL CALC. CLYST BCMG MORE SLTY FROM 1250M GRDG TO SLTST.

CLYST/SLTY CLYST:

DK GRN GRY-DK OLV GRY, FRI-MOD HD, BLKY, MICMICA, SCAT CARB SPKS, SLTY GRDG TO SLTST, NON CALC WHERE SLTY, SL-NON CALC WHERE MORE ARG+SFT.

TR BIOTITE:

LARGE, FREE XTALS.

SLTY CLYST:

DK GRN GRY-DK OLV GRY, FRI-MOD HD, BLKY, MICMICA, SCAT CARB SPKS, V SLTY GRDG TO SLTST, NON CALC, RR SL CALC.

TR BIOTITE XTALS, PYRITISED WORM TUBES.

TR DOL:

CRM-V LT GRY W/SCAT BLK SPKS (DISSEM PYR), MOD HD-FRI, ARG, BLKY, MICXLN.

TR LST:

CLR, ORNG BRN, XLN CALCITE, W/PYR COATING XTAL FACES

CLYST:

DK OLV GRY-DK GRN GRY, INCR AMNT OF SFT, STKY, AMORPH CLYST: REST A/A

TR LST:

CRM-V LT GRY, SFT-MOD HD, BLKY-AMORPH, MICRITE, SLTY, ARG.

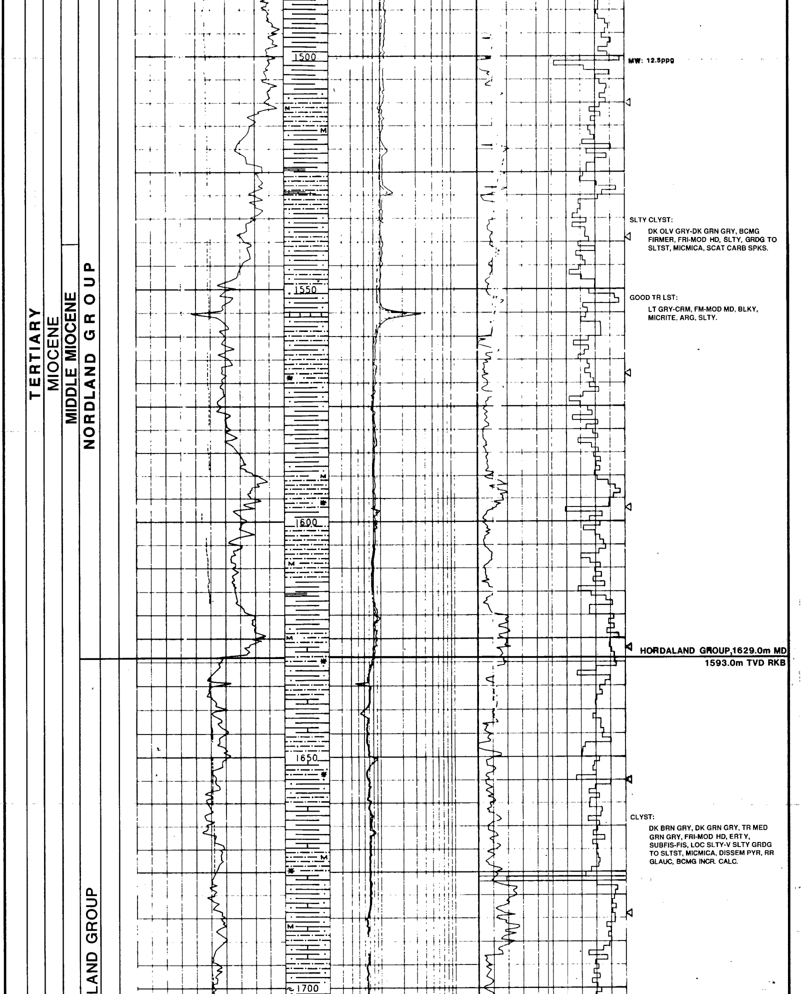
TR BIOTITE XTALS, DOL

CLYST:

DK OLV GRY-DK GRN GRY, FRI, ERTHY, BLKY, V SLTY, MICMICA, SCAT CARB SPKS, GRDG TO SLTST.

TR DOL:

CRM-LT BRN, MOD HD-HD, MICXLN, ARG, BLKY, SLTY.



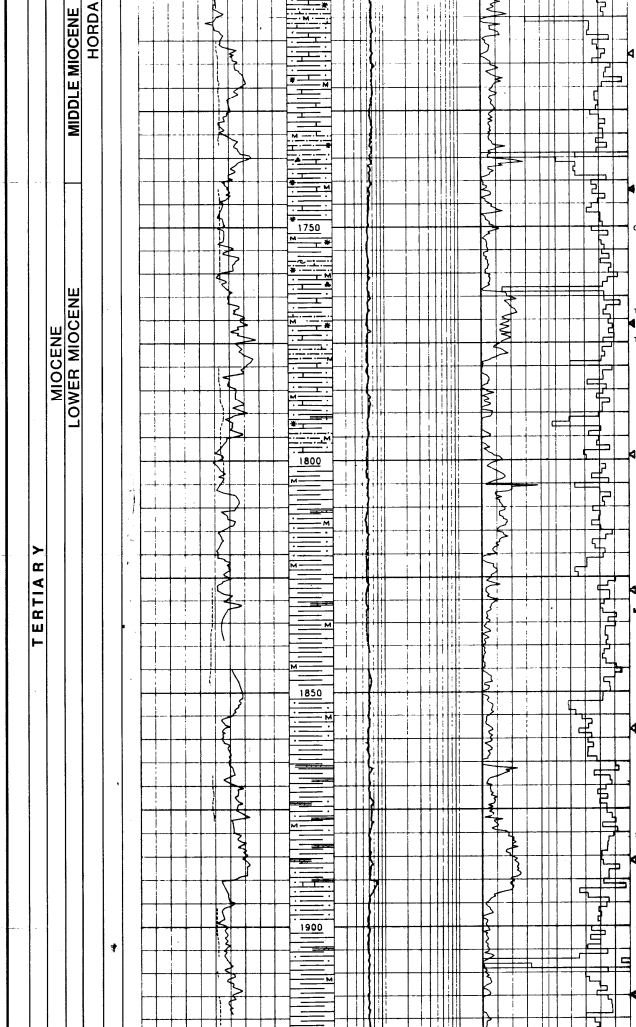
MW: 12.5ppg

SLTY CLYST:
DK OLV GRY-DK GRN GRY, BCMG FIRMER, FRI-MOD HD, SLTY, GRDG TO SLTST, MICMICA, SCAT CARB SPKS.

GOOD TR LST:
LT GRY-CRM, FM-MOD MD, BLKY, MICRITE, ARG, SLTY.

HORDALAND GROUP,1629.0m MD
1593.0m TVD RKB

CLYST:
DK BRN GRY, DK GRN GRY, TR MED GRN GRY, FRI-MOD HD, ERTY, SUBFIS-FIS, LOC SLTY-V SLTY GRDG TO SLTST, MICMICA, DISSEM PYR, RR GLAUC, BCMG INCR. CALC.



CLYST:

PREDOM DK BRN GRY, ALSO DK GRN GRY, TR MEDIUM GRN GRY, FRI-MOD HD, ERTY, SUBFIS–FIS, LOC SLTY–V SLTY GRDG TO SLTST W/SCAT CARB MAT. MICMICA, DK GRN GRY VARIETY W/OCC GLAUC, DISSEM PYR I/P, RR PYR LAMINAE. ALL VARIETIES CALC-V CALC

TR SHELL DEBRIS:

CLR-PA ORNG. XLN CALCITE.

TR FORAMS, TR XLN CALCITE.

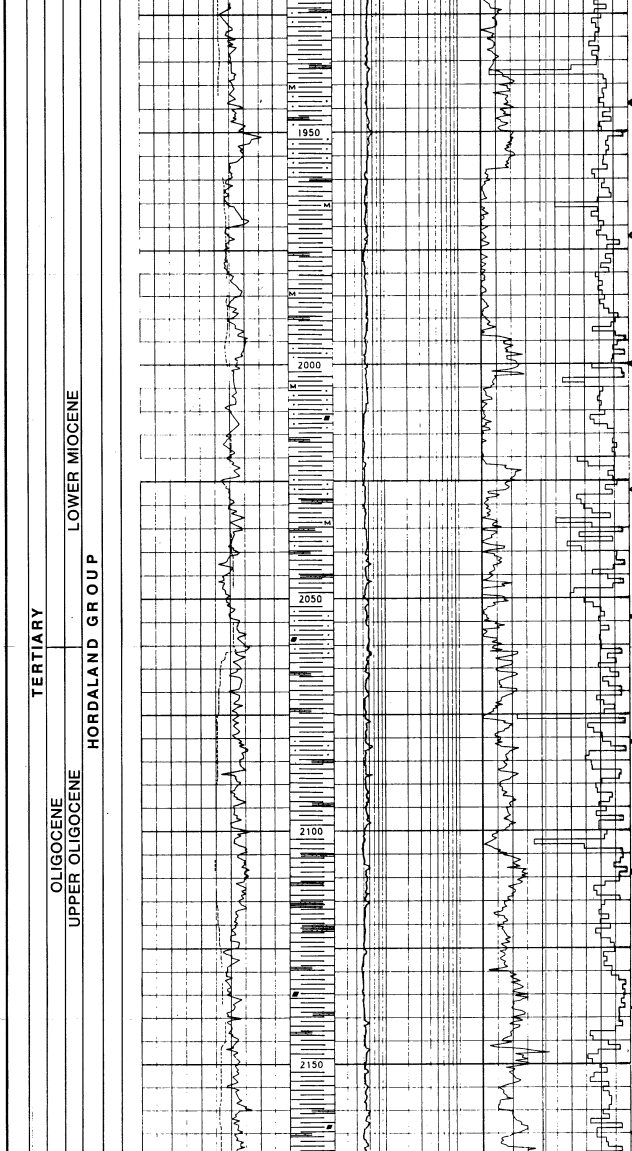
MW: 13.0ppg

GOOD TR LST:

DK BRN GRY, RR DK GRN GRY, FRI-MOD HD, ERTY–WAXY TEXTURE, SUBFIS-FIS, SLTY W/MICMICA, CARB MAT, LAMINATED I/P, OCC DISSEM PYR, NON CALC.

CLYST:

DK BRN GRY, FRI-MOD HD, ERTY-WAXY TEXTURE, SUBFIS-FIS, SLTY W/MICMICA, CARB, RR DISSEM PYR, NON CALC.



CLYST:

BK BRN GRY, MOD HD–FRI I/P, ERTY–WAXY TEXTURE, SUBFIS-FIS BRK, SLTY W/MICMICA, CARB, OCC DISS PYR, NON CALC.

CLYST:

DK BRN GRY, MOD HD–FRI I/P, ERTY-WAXY TEXTURE, SUBFIS-FIS BRK, SLTY W/MICMICA, CARB, OCC DISS PYR, NON CALC.

TR LST:

WH, CLR, XLN, CALCITE, ALSO LT BRN, HD, ANG BRK, ARG.

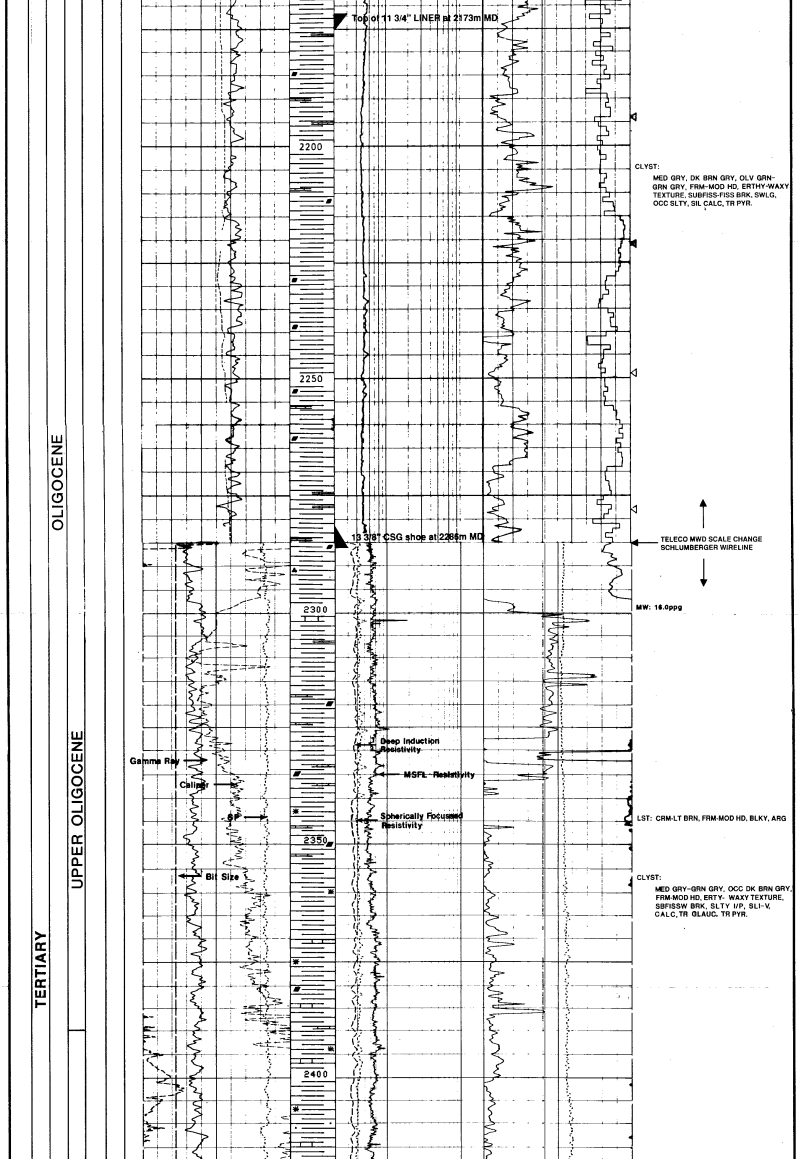
MW: 13.3ppg

CLYST:

DK BRN GRY, MOD HD–FRI, ERTHY-WAXY TEXTURE, SLTY, SUBFISS BRK, NON–SLI CALC,SWLG, ALSO OLV GRN-GRN GRY, MOD HD, WAXY, SUBFISS-FISS, NON CALC, OCC DISS PYR & PYR NODS.

TR LST:

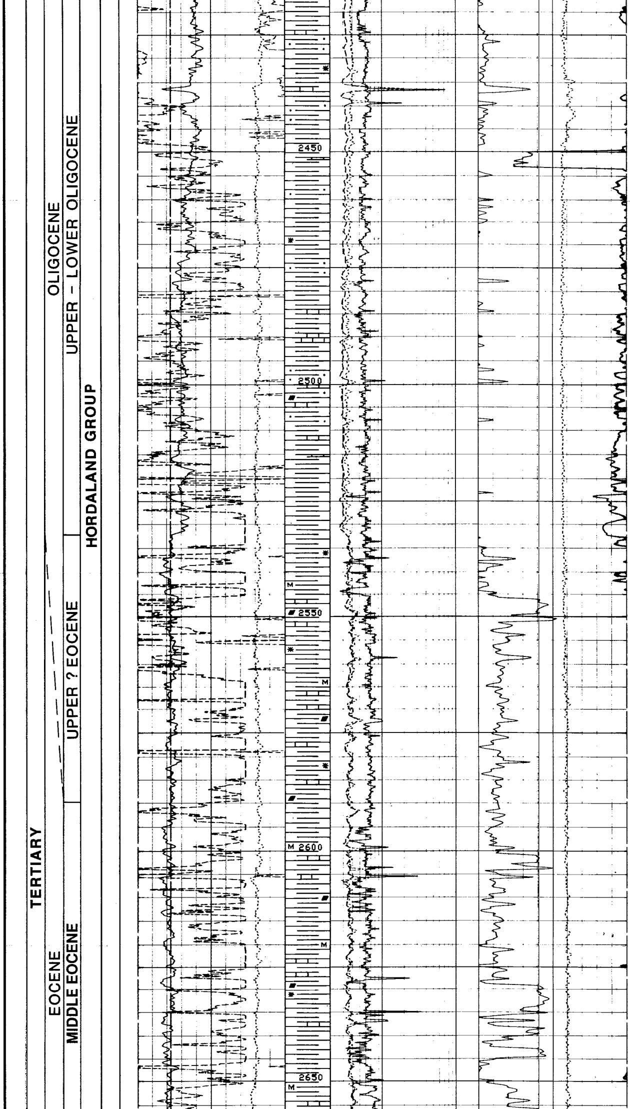
WH, HD. BLKY, OCC ARG, ALSO LT BRN, ARG, HD. BLKY-SUBFISS BRK.



CLYST:
MED GRY, DK BRN GRY, OLV GRN-GRN GRY, FRM-MOD HD, ERTHY-WAXY TEXTURE, SUBFISS-FISS BRK, SWLG, OCC SLTY, SIL CALC, TR PYR.

LST: CRM-LT BRN, FRM-MOD HD, BLKY, ARG

CLYST:
MED GRY-GRN GRY, OCC DK BRN GRY, FRM-MOD HD, ERTY- WAXY TEXTURE, SBFISSW BRK, SLTY I/P, SLI-V, CALC, TR GLAUC, TR PYR.



CLST:

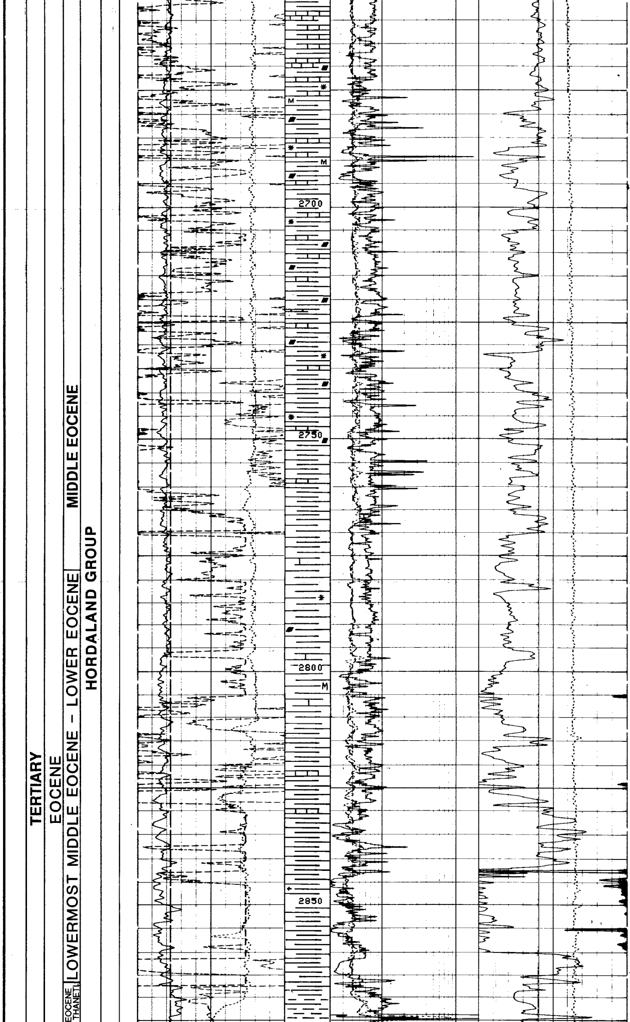
LT BLUISH GRY-OLV GRN, MED GRY, MED BRN GRY, FRM-MOD HD, SUBFISS BRK, ERTY- WAXY TEXTURE, SLI SLTY, GLAUC, TR PYR NODS, TR MICMICA, NON-SLI CALC.

TR LST:

WH-LT BRN, SFT-FRM, OCC HD, BLKY, ARG.

MW: 13.5ppg

LST: WH, FRM-MOD HD, BLKY, XLN, ALSO LT BRN, HD, BLKY-SPLTY, MICMICA.



CLYST:

OLV GRN–MED GRN, BRN GRY, FRM–MOD HD, ERTY- WAXY TEXTURE, BLKY-SUBFISS BRK, SLI SLTY, TR GLAUC, PYR, SLI-NON CALC.

CLYST:

A/A W/INCR AMOUNT OF PYR NODS & DISSEM PYR.

TR DOL:

LT GRY-GRY, V.HD, BLKY.

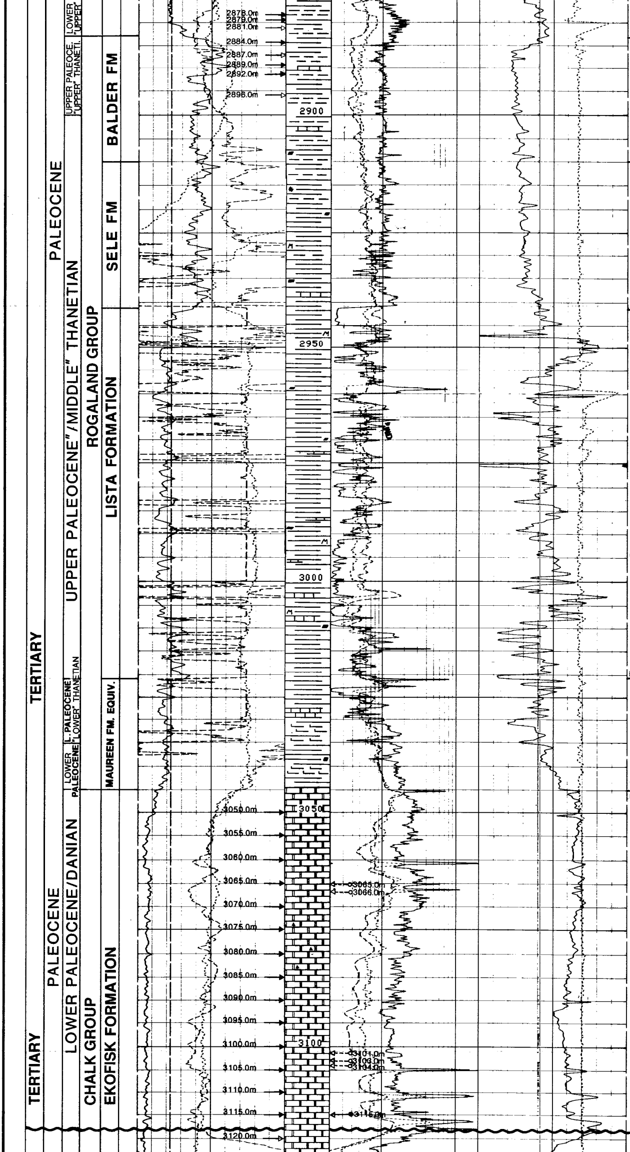
LST: WH-CRM, LT GRY-LT BRN, FRM-MOD BLKY, ARG, OCC GRDNG TO MARL.

CLYST:

VARICOLORED, GRN–OLV GRN, GRN GRY–MED GRY, DK BRN GRY, FRM-HOD HD, EARTHY-WAXY TEXTURE, SUBFISS-FISS BRK,ABDT DISSEM PYR & PYR NODS,SLI SLTY, NON-SL CALC.

CLYST/SH:

RD BRN, MOD HD, ERTY, SUBFISS-FISS BRK, NON CALC, ALSO PA BLU-GREEN, GRY & BRN GRY, FRM–MOD HD, ERTY- WAXY TEXTURE, SUBFISS-FISS, NON CALC.



LST: CRM-LT BRN FRM-MOD HD, BLKY, OCC BLK/WH LAM, FRI-FRM, ARG, GRDG TO MARL.

ROGALAND GROUP 2883.0m MD

BALDER FM 2747.0m TVD RKB

TR CALCITE:
CLR, HD, ANG, XLN.

NO TUFF DESCRIBED

CLYST/SHALE:
PRED. MED GRY-BRN GRY, ALSO RD BRN, PA BLU-GREEN, FRM-MOD HD, SUBFISS-FISS BRK, NON CALC, TR PYR NODS.

SELE FM 2910.5m MD

2773.1m TVD RKB

CLYST:
GRN GRY-MED GRY, PA BLU GRY, SFT-MOD HD, WAXY TEXTURE, BLKY-SUBFISS BRK, NON CALC, TR PYR NODS, MICMICA.

LISTA FM 2942.0m MD

2803.0m TVD RKB

MW: 13.5ppg

CLYST:
PRED GRN GRY-MED GRY, ALSO PA BLU GRY, SFT-MOD HD, WAXY TEXT, BLKY-SUBFISS BRK, NON CALC.

TR LST:
WH-CRM-LT BRN, FRM-MOD HD, MICROXLN, OCC ARG.

CLYST:
RD BRN, LT GRN GRY-MED GRY, OCC BRN GRY, FRM-MOD HD, WAXY, BLKY-SUBFISS, OCC FISS BRK, NON CALC, MICROMICA, DISSEM PYR & PYR NODS, OCC SLI SLTY.

MAUREEN FM EQUIV. 3021.0m MD

2878.7m TVD RKB

LST: WH-LT BRN, FRM-MOD HD, BLKY, MICROXLN, OCC ARG.

CLYST:
GRN GRY-MED GRY, A/A, ALSO V.L.T. GRY, SFT-FRM, BLKY, V.CALC.

CHALK GROUP 3045.0m MD

EKOFISK FM 2901.7m TVD RKB

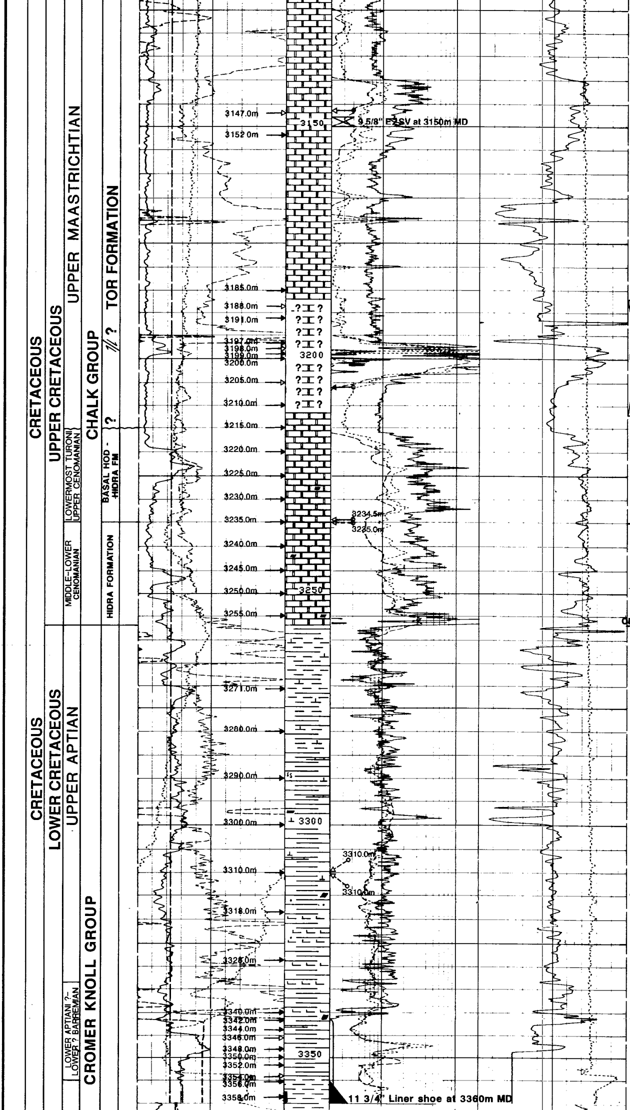
LST/CHALK:
WH-LT GRY, FRM-MOD HD, BLKY, TR CALCITE.

60°

LST/CHALK:
WH W/LT BRN TAN, FRM-MOD HD, BLKY-ANG BRK, CLAY SEAMS, OCC PYR, OCC CHERT FILL IN VUGS, POOR VIS POR, FEWPIECES W/DULL GOLD FLUOR, WEAK, SLOW WH CUT.

TOR FM 3118.0m MD

2972.3m TVD RKB



CHALK:
WH, OCC LT GRY, MOD HD, ANG-CONCH BRK, CMT FILL IN VUGS, DISSEM PYR, POOR VIS POR.

CHALK:
WH, OCC LT GRY, FRM-MOD HD,FRI-ANG, DISSEM PYR, TR CALCITE. STYLOLITES

GUNK SQUEEZE AFFECTING LOGS ?

MW: 13.5ppg

L S

LOST CIRCULATION
NO RETURNS

FAULT ZONE

HOD/FAULT 3200.0m MD
3052.5m TVD RKB

CHALK:
WH, V. LT GRY, PNKSH GRY MOD HP BLKY, ANG FRAC, CHALKY TEXTURE W/VF XLN CALCITE, RR DISS PYR.

CALCITE:
CLR, V. LT GRY, XLN, HD, FORMING GRANULAR–SUCRITIC MASSES, NO SHOWS

HIDRA FM 3235.0m MD
3087.1m TVD RKB

CHALK:
V.LT GRY-WH, HD, BLKY, ANG FRAC, CHALKY TEXTURE, W/VF XLN CALCITE XTLS, RR SHOWS, RR DISS PYR, OCC PYR NODS.

CROMER KNOLL GROUP 3257.0m MD
VALHALL FM 3108.8m TVD RKB
TR OIL STAIN SPOTS ON CHALK CUTTINGS, YEL FLU, IMM STRONG WHITE CUT.

MARLY CLYST:
MED-DK GRY, FRM-MOD HD, BLKY, OCC SUBFISS BRK, V.CALC, SLI SLTY

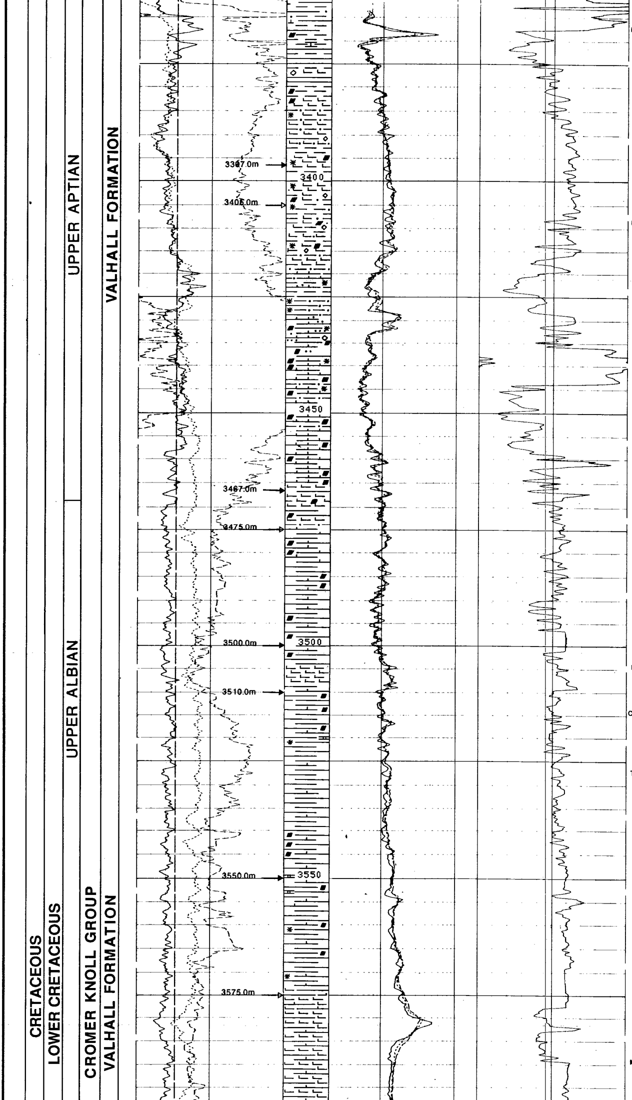
MW: 13.4ppg

CLYST:
DK GRNSH GRY, MED DK-DK GRY, V.LT GRY, FRM-MOD HD, BLKY, SUBFISS BRK, WAXY TEXTURE, OCC ERTY & SLTY, NON-MOD CALC. V.LT. GRY VAR, GRDNG TO MARL.

MW: 13.3ppg

CLYST/SHALE:
BLK, OLV BRN, MED DK–DK GRY, SUB-FISS-FISS BRK, FRM-MOD HD, WAXY TEXTURE, SLI-NON CALC, SPLTRY.

TR SLST:



MED-DK BRN, ERTHY, SFT-FRI, CALC YEL FLUOR, SLOW WH CUT.

BRIGHT-DULL ORNG/YEL FLUOR IN CHALK/LT GRY MARL, SLOW WH BLU CLOUDY CUT.

SHALE:

DK GY, BLK, MOD HD, V FISS, WAXY TEXT, N CALC.

MARL:

LT-MED GY, SFT, ARG, STKY, OCC ?

LOT at 11 3/4" liner shoe:
16.6ppg (EMW)

MW: 14.2ppg

MARL:

RD-BRN, BRICK RD, SFT-V SFT, SL STKY, AMOR, V CALC.

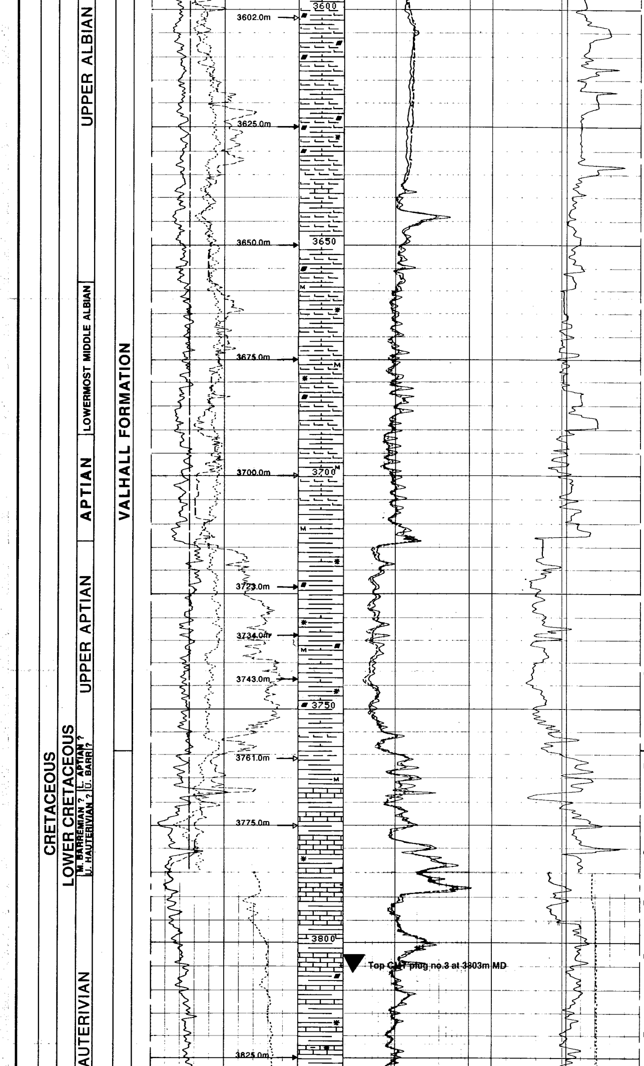
CLYST:

LT-MD GRY, OCC DK GRY, FRM, BLKY, OCC SBFISS, CALC, ALSO RD BRN, SFT, AMOR, SL STKY, V CALC, GRDG TO MARL.

TR LST:

LT GRY-V LT GRY, HD, BLKY, MXLN

MW: 15.5ppg



Poor dip quality above 3640m

MARL:

V.LT. GRY-LT, GRY, FRM-MOD HD, BLKY, GRDNG TO ARG LST, BRIGHT YEL FLUOR, WEAK SLOW GRY WH CLDY CUT, IMM WH CUT WHEN CRUSHED.

CALC CLYST:

LT-MED GRY, OCC DK GRY, FRM-MOD HD, BLKY-SBFISS, V.CALC, GRDNG TO MARL, OCC LAMINATED W/LT & MED DK STREAKS, TR PYR NODS, RR GLAUC, RR BIOTITE.

20°

TR CALC SHALE:

DK GRY–GRY BLK, OCC DK BRN BLK, FRM-MOD MD, FISS, SPLTRY, CALC-V.CALC.

CALC CLYST:

VARICOL, RD BRN–BRICK RD, LT–MED GRY,LT BRNISH BRY, DK GRY, GEN FRM-MOD HD, BLKY, SBFISS BRK, GEN V.CALC,TR PYR NODS, TR BIOTITE.

CLYST:

DK BRN–DK BRN BLK, SFT–FRM, BLKY, ERTHY, SLI SLTY, CALC-V.CALC, MMIC, MPYR, NO FLUOR BUT MOD-GOOD SLOW LT BLUEWH DIFFUSE STREAM-CLDY CUT.

"TUXEN FM" 3759.0m MD

3608.0m TVD RKB

LST: WH–OFF WH–LT GRY BRN, SFT–FRM, BLKY-FRI,GLAUC INCLUSIONS, MPYR.

MW: 16.0ppg

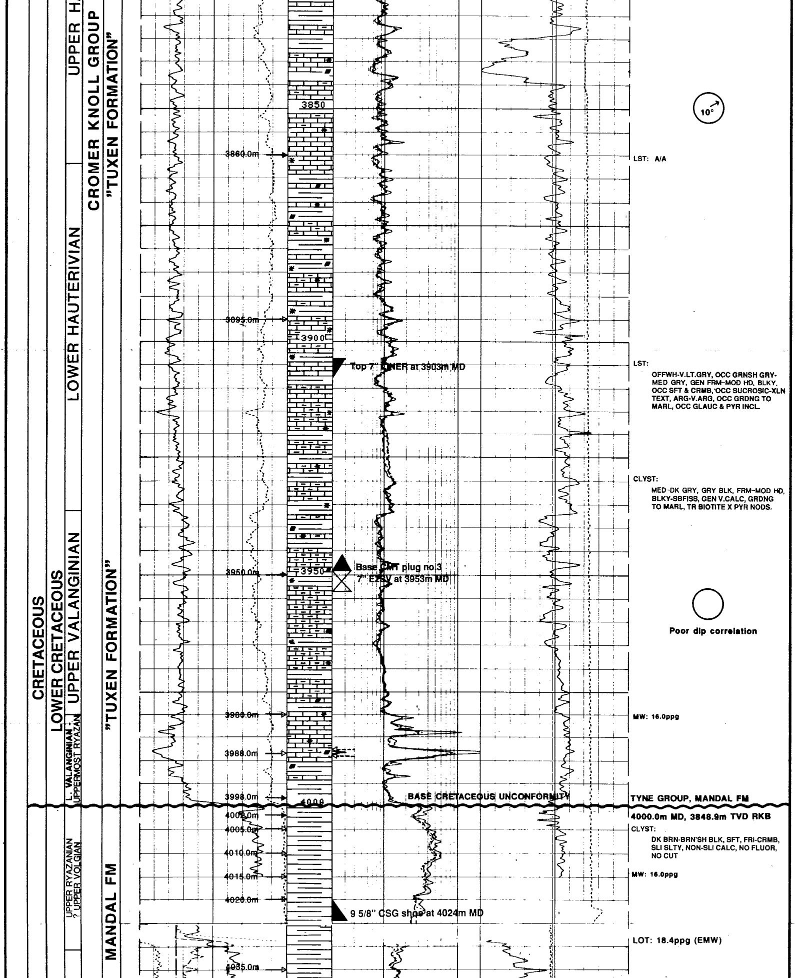
CLYST:

MED– DK GRY, OCC BLK, FRM, ERTHY-WAXY, SLI CALC, BLKY-SBFISS, HYDROPH. ALSO RD BRN, FRM, ERTHY, V.CALC, BLKY, OCC SFT, N.HYDROPH.

MW: 16.3ppg

MW; 16.0ppg

LST: A/A



LST: A/A

LST:

OFFWH-V.LT.GRY, OCC GRNSH GRY-MED GRY, GEN FRM-MOD HD, BLKY, OCC SFT & CRMB, OCC SUCROSIC-XLN TEXT, ARG-V.ARG, OCC GRDNG TO MARL, OCC GLAUC & PYR INCL.

CLYST:

MED-DK GRY, GRY BLK, FRM-MOD HD, BLKY-SBFISS, GEN V.CALC, GRDNG TO MARL, TR BIOTITE X PYR NODS.

MW: 16.0ppg

TYNE GROUP, MANDAL FM

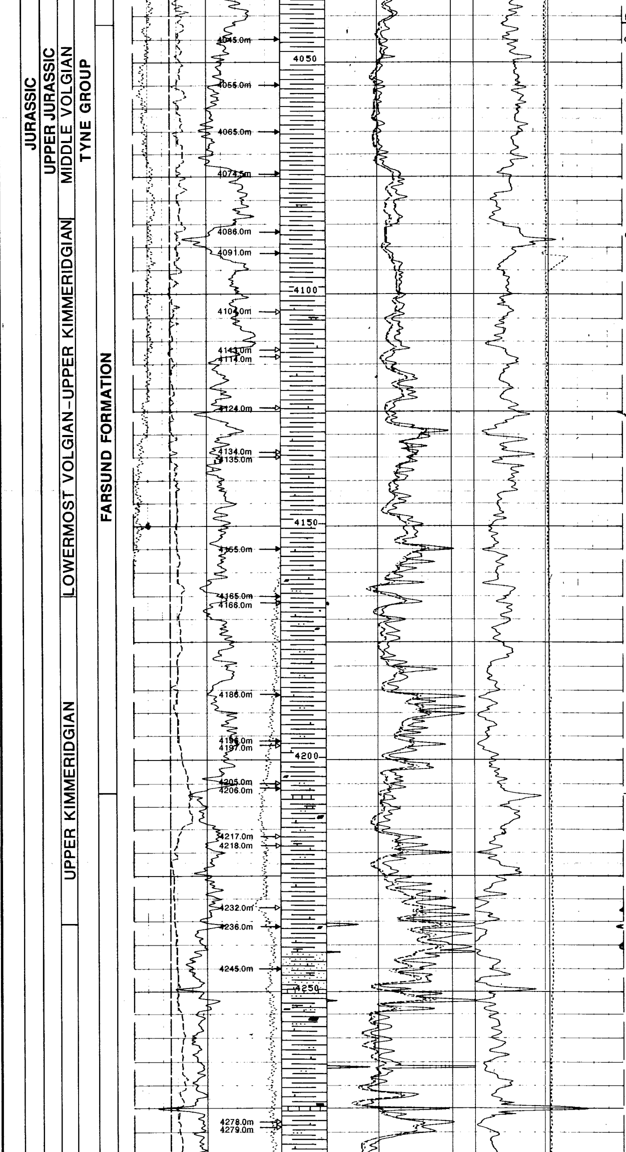
4000.0m MD, 3848.9m TVD RKB

CLYST:

DK BRN-BRN'SH BLK, SFT, FRI-CRMB, SLI SLTY, NON-SLI CALC, NO FLUOR, NO CUT

MW: 16.0ppg

LOT: 18.4ppg (EMW)



FARSUND FM 4042.0m MD
3890.9m TVD RKB

CLYST:
GRY-DK GRY-GRY BLK, OCC SL BRN GRY, FRM, GEN BLKY, OCC SBFISS, WAXY LUSTER, N HYDROPH, N CALC.

TR LST:
LT BRNSH WH-MOD YEL BRN, SFT, FRI, SLTY 1/P, OCC ARG-GRDG MARL. ALSO V LT GRY, HD, BLKY, MICROXLN.

4-20°

Scattered dips

CLYST:
MED-DK GRY, GEN FRM, SB BLKY, SBFISS, ALSO SFT, AMOR, STKY, GEN N-CALC, OCC CALC-V CALC, GRDG TO MARL, N SWLG.

MW: 16.0ppg

CLYST:
DK GRY-GRY, SFT, AMOR, SL STKY, ALSO FRM, BLKY, SBFISS I/P, CALC, SL SLTY, WAXY-EARTHY LUSTER.

HAUGESUND FM 4207.0m MD
4055.8m TVD RKB

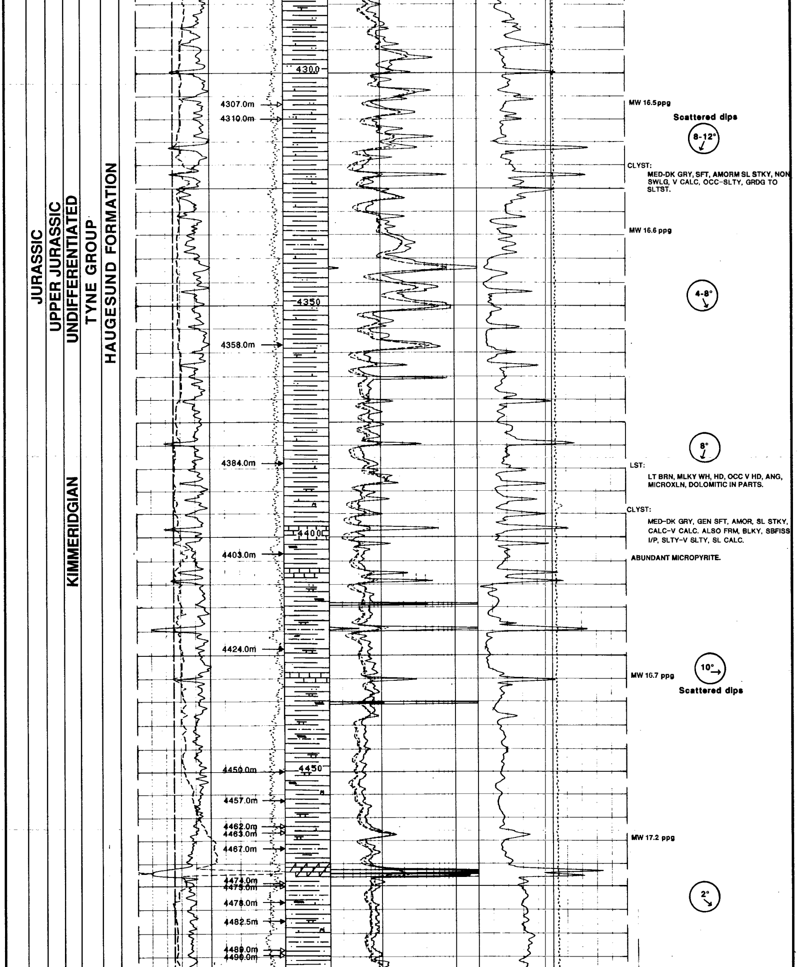
2°

CLYST:
MED DK GRY, SFT, AMOR, CALC, V CALC I/P, SLTY, OCC V SLTY.

TR SST:
V LT BRN, DRTY WH, VF-F, FRI, W SRTD, CALCITE CMT, ABUNDANT MICROPYRITE. FAIR PA BLUE FLUOR IN UNWASHED SAMPLE, BRIGHT BLUE FAIR/POOR CUT.

10°

MW: 16.4ppg



MW 16.5ppg

CLYST:
MED-DK GRY, SFT, AMORM SL STKY, NON SWLG, V CALC, OCC-SLTY, GRDG TO SLTST.

MW 16.6 ppg

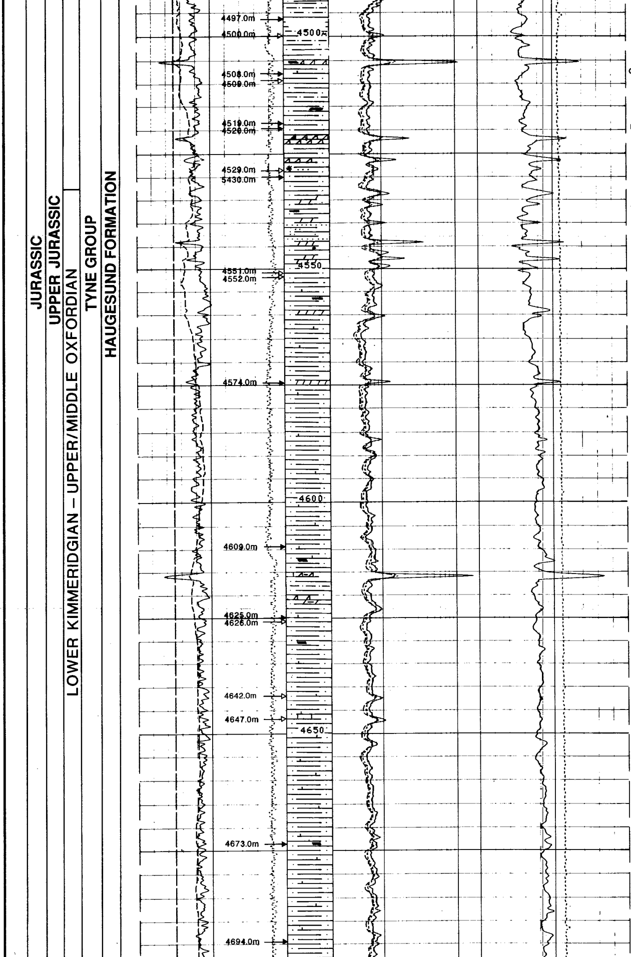
LST:
LT BRN, MLKY WH, HD, OCC V HD, ANG, MICROXLN, DOLOMITIC IN PARTS.

CLYST:
MED-DK GRY, GEN SFT, AMOR, SL STKY, CALC-V CALC. ALSO FRM, BLKY, SBFISS I/P, SLTY-V SLTY, SL CALC.

ABUNDANT MICROPYRITE.

MW 16.7 ppg

MW 17.2 ppg



1-2°

CLYST:
DK GRY-GRY,FRM,BLKY,SLTY,EARTHY,SL CALC,MICROPYRITE I/P,ALSO DK GRY-GRY BRN,FRM-HD,BLKY,DOLOMITIC.

DOLOMITE:
DK GRY BRN, HD, ANG, XLN, OCC MLKY WH AND CLEAN, GRDG TO LST.

TR SST:
GRY BRN-GRY'SH WH, VF ANG, MOD SRTD HD, GLAUCONITIC, DOLO/CALCITE CMTD.

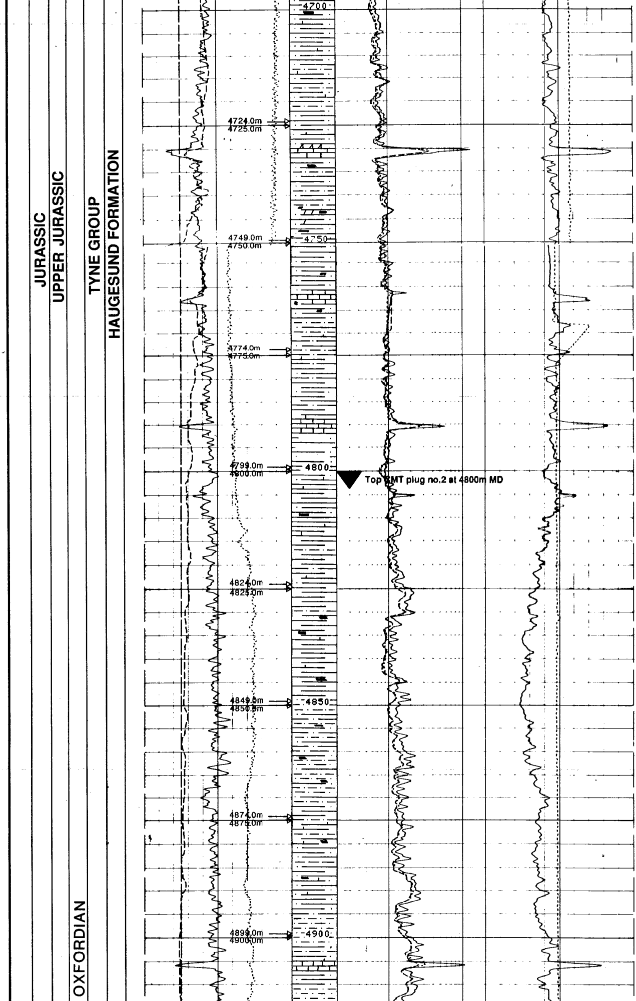
4°

MW 17.4 ppg

CLYST:
GEN DK GRY, FRM, BLKY-SBFISS, SL -MOD CALC, ALSO MED GRY, SFT, SLTY, BLKY, MOD CALC.

10°

SLST:
LT GRY-BRN'SH GRY, SFT, STKY, OCC FRI, SLI-MOD CALC, OCC GRDNG TO VF SST.



LST:

WH-CLR, FRM, BLKY-ANG, CLEAN, XLN, OIL STAINED XLN FACES, DK DRUSYCRYSTAL GROWTH
FAIR-GOOD FLUO, IMM, STR, WH-YELL CUT.

TR FORAMS

TR PYR NODS

MW: 17.4ppg

LST:

LT GRY, FRM, AMOR, ARG, I/P, V ARG. GRDG MARL; V/DULL YEL FLUOR, MOD BLUE CUT.

CLYST:

MED-DK GRY, FRM, SB BLKY, SL CALC, SL SLTY I/P

12°

WEAK-FLUO, SLOW STREAM LT BLUE CUT IN SLTST.

CLYST:

MED-DK GRY, SFT-FRM, AMOR, SBBLKY, GEN N CALC, OCC SL CALC, N SWLG.

SLTST:

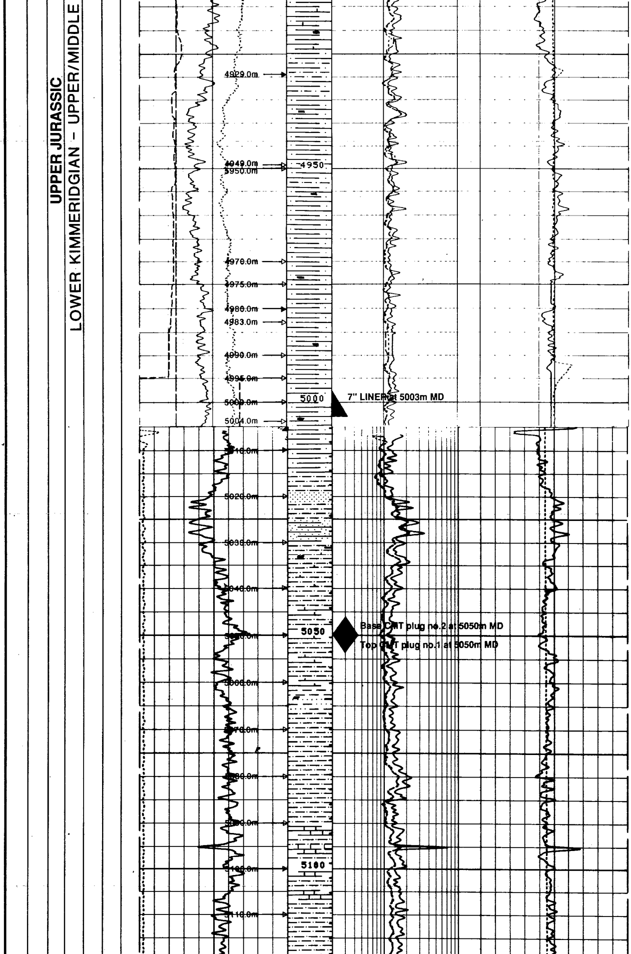
MED GRY, FRM, FRI, SL CALC-V CALC.

TR LST/ CALCITE:

BRN-YEL FLAKES OF CALCITE, FRACTURE FILLING LOOK, OCC PERF CRYST OF CALCITE.

SLTST:

LT BRNSH-GRY, FRM, SB BLKY, N CALC-SL CALC,
DULL TO BRIGHT YEL FLUO, FAST BRIGHT BLUE CUT IN LST, SLOW BLUE CUT IN SNDY SLTST.



MW: 17.4ppg

CLYST:
MED-DK GRY, MOD HD, OCC HD, SBFISS-SBBLKY, N CALC, N SWLG, OCC MMIC AND MPYR, GEN SLTY.

TR SLTST:
MED GRY, FRM, FRI, ARG-ARG-GRDG TO SLTY CLYST, N-SL CALC, MPYR.

MW: 17.4ppg

FIT: 20.0ppg (EMW)
(No leak off)

MW: 17.4ppg

SNDY SLST:
LT GRY-LT BRN, FRM-MOD HD, FRI-BLKY, SLI CALC, SBRND, VF, QTZ.

CLYST:
GRY-LT BRN, FRM-MOD HD, SB-BLKY-SBFISS, CALC, SLTY.

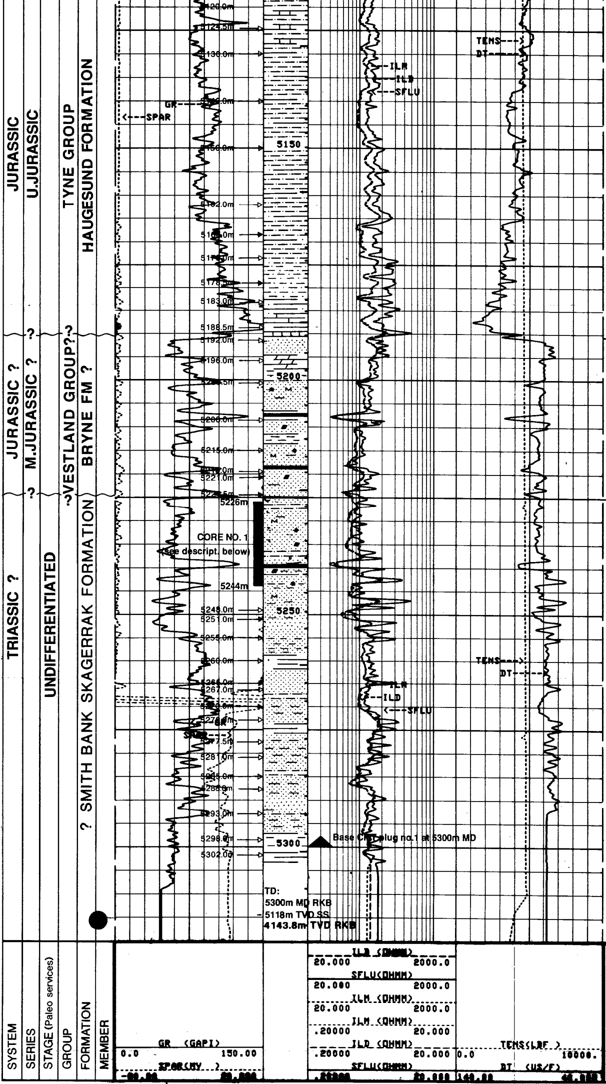
TR PYR NODS

TR LST:
BUFF-LT YEL BRN-WH, FRM-HD, BLKY SLTY, ARG, OCC GRDNG TO MARL.

↗ 18°

SNDY SLST:
LT-MED GRY, FRM-FRI, BLKY-SUCROSIC, SLI CALC, VF, SBRND, QTZ GRNS,

LST: V LT GRY-LT GRY, SFT-FRM, ARG, GRDNG TO MARL.



SLST:
DK GRY-GRY, FRM-FRI, BLKY, NON-SLI CALC, GRDNG TO VF SST I/P, GRDNG TO SLTY CLYST I/P.

CLYST:
DK GRY, FRM-MOD HD, BLKY-SBFISS, NON CALC, NON SWLG.

SLST:
GRY-LT GRY, FRM, SLI-NON CALC, SWLG, GEN MUDDY.

MW: 17.4ppg

SLST:
DK GRY-GRY, FRM, BLKY-SBFISS, NON CALC, NON SWLG, GRDNG TO SLTY CLST.

VESTLAND GROUP ? 5191.0m MD

BRYNE FM ? 5035.7m TVD RKB

SST: V LT GRY-WH, VF-F, MOD-WELL SRTD, SBROUNDED, GEN CALC CMT, OCC SILIC.

DOL: LT BLU' SH GRY, HD, OCC V HD, BLKY, LAMIN.

↗ 18°

Scattered dips

SST: V LT GRY, WH, VF-F, OCC MED GRND, MOD HD, OCC FRI, GEN WELL SRTD, SBROUND, WELL CMTD, GEN SILICA CMT, OCC CALC CMT, MICA, GLAUC, POOR-NO VIS POR.

TRIASSIC GROUP ? 5225.0m MD
5069.5m TVD RKB

↗ 20°

SST: V LT GRN-WH, CLR QTZ GRNS, HD-V HD, F-VF ALSO MED GRND, OCC CRS, WELL-MOD SRTD, SBANG-ANG, GEN SILICA CMT, OCC CALCITE CMT, FREQ GLAUC & MUSC MICA, RR PYR NODS, NO VIS POR-TIGHT.
NO FLUOR, NO CUT.

SLTST:
PA GRY' SH BRN, FRM-MOD HD, N CALC, V HOMOG, V MICACEOUS.

SST: V LT GRY GRN, PA GRN, CLR-WH QTZ, HD, GEN F-MED, OCC VF-CRS, SBANG-SBRND, MOD SRTD, GEN SILICA CMT-OCC CALCITE CMT, WELL CMTD, RR GLAUC, COM PYR NODS.

CLYST:
MED-LT BRN' SH RD SFT, OCC FRM, AMOR, OCC SBBLKY, GEN CALC, SLTY I/P.

MW 17.4 ppg

SST: MED-LT BRN' SH RD, VF-F, OCC MED GRND, MED HD-FRI, SBRND, MOD SRTD, CALCITE CMTD, LM VIS POR.

↗ 20°

LITHOLOGICAL DESCRIPTION AND REMARKS

Amoco Norway Oil Company

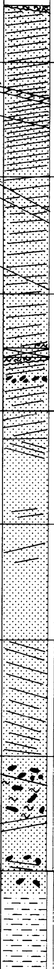
Sheet 1 To 5
Date: 17/4-89

Core Description Sheet

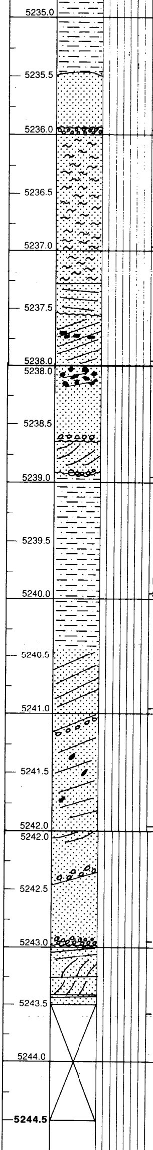
Well No.: 2/8-12 **Core No.: 1**

Cored From: 5226.5m **To:** 5244.5m **Length:** 18.0m **Rec:** 17.08m 95 %

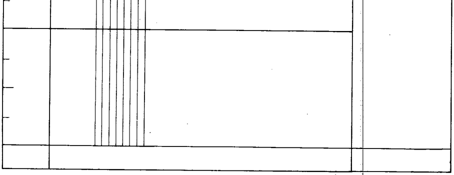
Geologist: A.ØSTVOLD/H.RESTAD **Approx Hole Angle:** 8.2°



Depth	Lith.	Ø P F G	SHOWS P F G	Description	Shows & Remarks
5226.0					
5226.5				SST: QTZ,V LT GRN GRY-WH-CLR,OCC V LT BRN GRY,HD, F GRND,LOCALLY GRDNG TO SLTST, GEN WELL SRTD, SBANG-ANG,MOD-WELL CMTD W/SILICA CMT,NON-SL CALC,COM GLAUC, OCC PYR NODS, OCC MUSC MICA, NO VIS POR (TIGHT)	NO FLUOR, NO CUT
5227.0					**Ø:14.7%**
5227.5				SST: QTZ, V LT GRN-WH, CLR QTZ GRNS, HD,F GRND, WELL SRTD, SBANG-ANG. MOD-WELL CMTD W/SILICA & SOME CALCITE CMT,SL CALC,FREQ GLAUC GRNS,ABDNT MUSC MICA FLAKES, RR PYR NODS, NO VIS POR (TIGHT)	A/A
5228.0					**Ø:14.6%**
5228.5				SST: A/A	A/A
5229.0					**Ø:12.7%**
5229.5				SST: QTZ, V LT GRN-WH, CLR QTZ, HD F GRND, LOCALLY GRDNG TO VF & SILT SIZED GRAINS IN PATCHES, GEN MOD SRTD, POORLY SRTD I/P, WELL CMTD W/SILICA CMT, NON CALC, ABDNT GLAUC GRNS CONCENTRATED IN PATCHES, FREQ MUSC MICA, OCC PYR NODS, NO VIS POR (TIGHT)	A/A
5230.0					**Ø:15.8%**
5230.0					
5230.5				**Change in dip (core rotation ?)** SST: QTZ,V LT GRN GRY-WH, CLR QTZ, HD F GRND, WELL SRTD, SBANG-ANG, WELL CMTD W/SILICA CMT, NON CALC, FREQ GLAUC GRNS, MUSC MICA & PYR NODS, NO VIS POR (TIGHT)	A/A
5231.0					**Ø:14.5%**
5231.5				SST: A/A	A/A
5232.0					**Ø:14.4%**
5232.5				SST: A/A, FAINT GLAUC THIN BANDS	A/A
5233.0					**Ø:13.2%**
5233.5				SST: QTZ, V LT GRN GRY-WH, CLR QTZ, HD,GEN F GRND-OCC VF GRND, RR V COARSE EUHEDRAL QTZ XALS. WELL-MOD SRTD, SBANG-ANG. SILICA CMTD, NON CALC, FREQ GLAUC & MUSC MICA. RR PYR NODS. NO VIS POR (TIGHT)	A/A
5233.95				SST: A/A. BUT LOCALLY GRDNG TO SLTST. MOD SRTD I/P	A/A
5234.0					**Ø:10.5%**
5234.5					NO FLUOR, NO CUT.



5235.0	SLTST: PALE-GRY'SH BRN, FRM-MOD HD,V HOMOG, N CALC, MICACEOUS.	**Ø:13.3%** G
5235.9	**Erosion contact at 5235.9m**	
5236.0	SST: QTZ,GRN`SH GRY,GRY WH, CLR QTZ. HD-VHD, F-MED GRND, MOD SRTD, SBANG, CALC CMT, FREQ GLAUC & MUSC MICA. NO VIS POR. RR PYR NODS.	A/A **Ø:7.1%**
5237.0	SST: QTZ, GRN`SH GRY, GRY WH, CLR QTZ, HD-VHD, F-MED GRND, OCC CRS BRNS. MOD SRTD, SBANG, SILICA CMT, /MATRIX SUPP/, FREQ GLAUC & V MUSC MICA RICN. NO VIS POR.	A/A **Ø:12.7%**
5238.0	SST: A/A	A/A **Ø:4.7%**
5238.0	**Mudstone clasts**	
5239.0	SLTST: PALE-GRY`SH BRN, FRM-MOD HD. V HOMOG, N CALC, V MICACEOUS. TR OF SBANG F-MED QTZ GRNS.	NO FLUOR, NO CUT.
5238.95	**Erosional contact at 5238.95m**	
5240.0	SST/SLTST: QTZ,GRN`SH GRY GRY WH,CLR QTZ HD-V HD, F-MED GRND, MOD SRTD, SBRND-SBANG, WELL CMTD W/ SILICA CMT, CALCITE/DOLOMITE CMT I/P, FREQ GLAUC & MUSC MICA NO VIS POR.	**Ø:9.6%** A/A
5241.0	SST: QTZ, GRN`SH GRY,GRY WH, CLR QTZ. HD, DOM MED GRND, OCC F GRNS, MOD SRTD, SBRND-SBANG, WELL CMTD W/SILICA CMT - CALCITE/ DOLOMITE CMT I/P. FREQ GLAUC &MUSC MICA RICH. NO VIS POR. RR PYR NOD.	**Ø:10.6%** A/A
5242.0	SST: A/A	**Ø:12.0%** A/A
5243.0	**Erosional contact at 5243.0m**	
5243.0	SST: QTZ, GRN`SH GY, GY WH, CLR/CLSS QTZ, HD-V HD, MED GRN, OCC F-CRS GRND, MOD SRTD, SBRND, WELL CMTD W/SILICA CMT, FREQ GLAUC NO VIS POR.	**Ø:7.1%** NO FLUOR, NO CUT
5243.5	SST: QTZ, LT GY-WN, TRANSLUCENT, PA BRN`SH, QTZ GRNS, HD,VHD, F-MED GRND, WELL SRTD, SBANG-ANG, CALCITE & SILICA CMT, W CMTD. CALC I/P, RR GLAUC. NO VIS POR.	V WEAK DK GRY-DK VIOLET FLUOR. NO CUT.



Scale 1:20