SIMON PETROLEUM TECHNOLOGY

WELL: 1/9-2

Print: 1844 M	Units: [✓ M] F	Top	Bottom	Scale	TD
Length: 27 FT	Initials: HC	145	3455	1/500	3459

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY SPT

COMPLETION LOG

Mb.101.1

COMPLETION - M

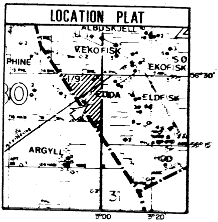
statoil / PHILLIPS, PETROFINA, AGIP

1/9-2

COMPLETION LOG
Scale 1:500

COORDINATES: 56° 23' 52.77" N
02° 55' 34.63" E
K.B.: 24.7m
WATER DEPTH: 75.8m
TOTAL DEPTH: 3459m
DEEPEST FORM. PEN.: Hod Fm. (Coniacian)
SPUD DATE: 1 June, 1977
RIG RELEASE DATE: 12 August, 1977
WELL STATUS: P & A
RIG: Ross Rig
CONTRACTOR: Ross Drilling Co. A/S
GEOLOGISTS: B. Rasmussen, O. Aga, A. Hage, E. Asphaug, E. Lie, S.M. Aasheim
PREPARED BY: S.M. Aasheim

LOCATION PLAT



DATE: 12 Jan., 1978

CASING DATA:
30" at 152.5m
20" at 433m
13 3/8" at 1375m
9 5/8" at 2856m
7" liner at 3458m

VELOCITY SURVEY:
43 checkshots, levels from 550 to 3459m by Schlumberger. Two-way times from seismic calibration log.

LOGS RUN (depths in meters/Schlumberger)

ISF/SONIC, GR-SP	FDC-CAL-GR-CNL	HDT - FIL	DLL-MSFL-CAL-SP-GR	IES-SP	CBL-VDL-GR	
Run 1 153.5 - 436.2 2 432 - 1388.6 3 1325 - 2864 4 2856.6 - 3434 only Sonic-GR	Run 1 432 - 1389.4 2 1377.3 - 2865 3, 1 2856.6 - 3459 Run 1 CNL	Run 1 2856.6 - 3459 only HDT 1 2856.6 - 3459 only FIL	Run 1 2856.6 - 3459	Run 1 2856.6 - 3459	Run 1 125 - 1377.5 only CBL 2 800 - 2829 CBL- VDL 3 2750 - 3397.5 1 2856.6 - 3440 VDL in open hole.	

LITHOLOGIC SYMBOLS

SAND/SANDSTONE	LIMESTONE	^ ^ ^ ANHYDRITE	FORAMINIFERA	▫ ▫ PYRITE	M M MICA
SILT/SILTSTONE	CHALK	or c c c c c COAL/LIGNITE	WOOD FRAGS	* * * GLAUCONITE	STYLOLITES
CLAY/CLAYSTONE	DOLOMITE	V V V TUFF	FOSSILS, GEN'L	△ △ △ CHERT	BURROWS

SHALE
MARL
SALT
SHELL FRAGS
SIDERITE
FRACTURES

SHOW OR STAIN
HYDROCARBON CUT
FLUORESCENCE
GAS SHOW

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

CORES
CORE NO.

DST
①

F.I.T.
1

CASING SHOE/LINER

BIT

SYSTEM
SERIES
STAGE
GROUP
FORMATION

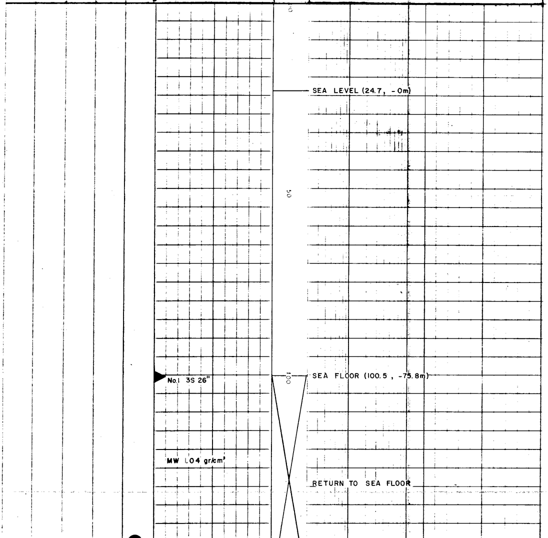
SPONTANEOUS POTENTIAL
millivolts
10

GAMMA RAY
api units
0 100

RESISTIVITY
ohms - m
DEEP INDUCTION R
0.2 10 10 100 1000 2000
SPHERICALLY FOCUSED RESITIVITY R
0.2 10 10 100 1000 2000
COND. (mmho.)
1000 0
2000 0

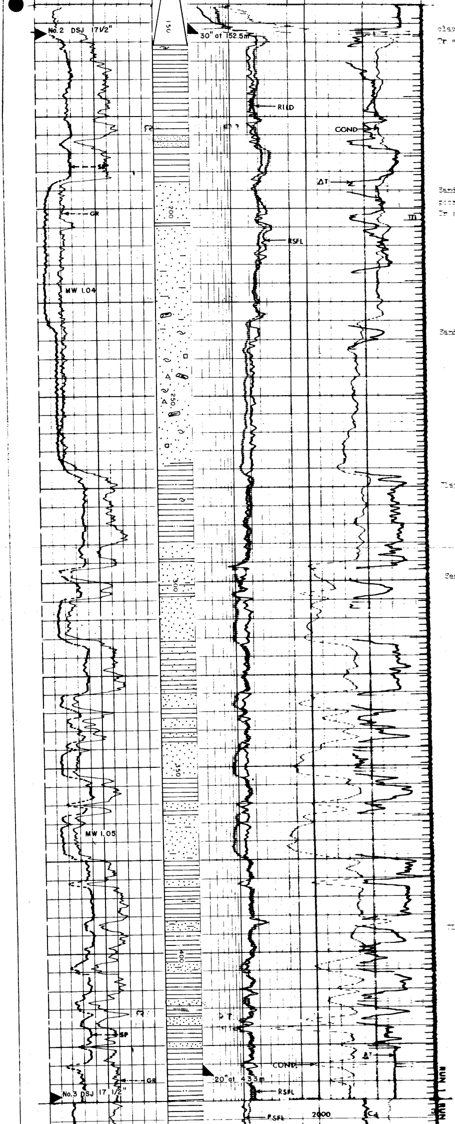
INTERVAL TRANSIT TIME Δ t
microsecond per foot
240 40
FIT
TTI

Two-way times from seismic calibration log



UATERNARY

ISTOCENE- HOLOCENE



clay, md gy, sft, sticky, slty, occ calc
Tr shell frag.

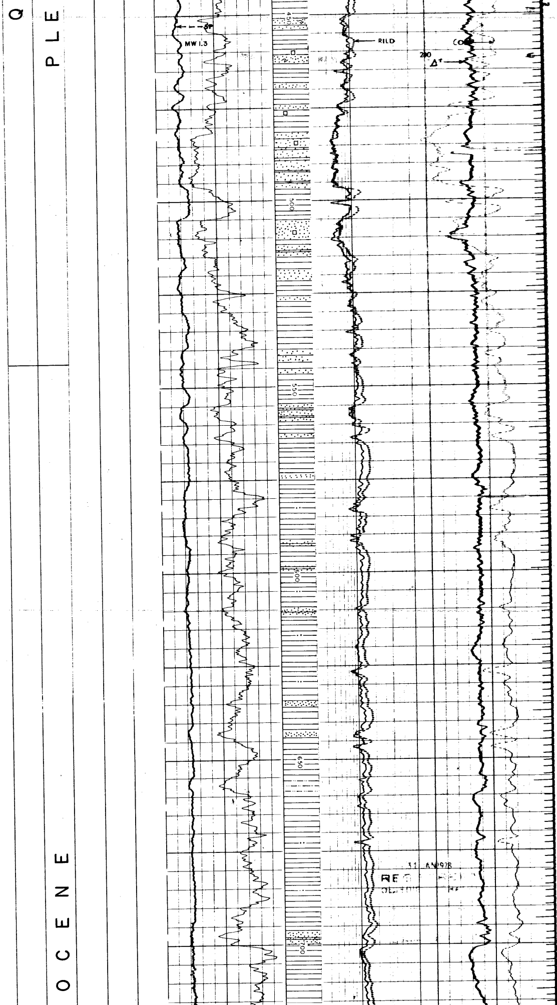
Sand, clr, vf - crs grn, slty, subrnd - sa
poor srt, loose, occ argill
Tr shell and wood frag.

Sand a/a and wh. qtz, vf - crs, fair - poor
srt, subrnd - v rnd, loose
Abund shell and wood frag
Tr pyrite and chert

Clay, md - lt gy, sft, sticky, slty, sl calc
Tr shell frag.

Sand, clr to wh, vf - f, fair srt, subrnd,
loose - friable in parts,
interbed w/clay a/a

Clay a/a v slty, w occ sd stringers



Clay a/a interbedded w/ sand stringers,
vf - [illegible] loose, poor srt, [illegible]
clear-wh, [illegible] grains, [illegible]
Tr shell frag
Tr [illegible]

B.G. [illegible] units

B.G. 51 units

B.G. [illegible] units
Clay a/a interbedded w/ sd a/a

B.G. 90 units

Clay, lt gy, sft, stky, slty, sl calc,
occ thin stringers of sand,
v f - f, loose

B.G. 90 units

sd stringer, clr - wh, vf - f,
loose, subrnd

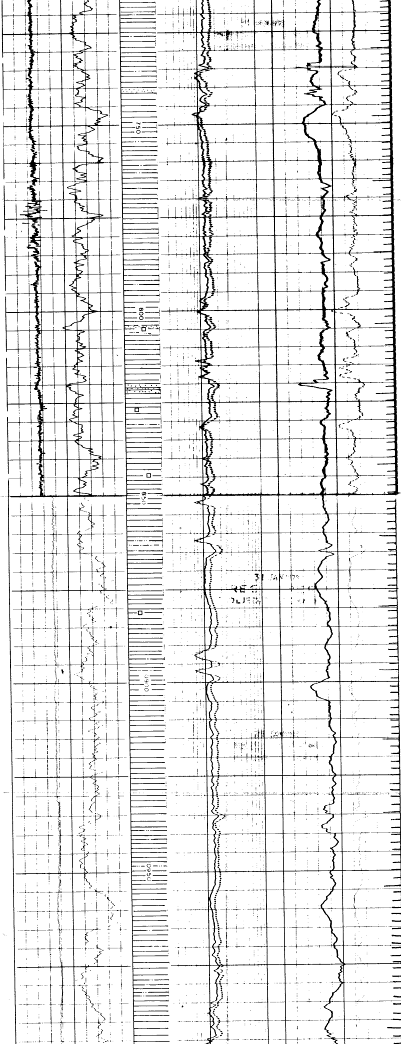
Clay a/a

TERTIARY

PLI

PER MIOCENE

NORDLAND GROUP



PLIOCENE 785 m

UPPER MIOCENE -760 m

0,816 sec

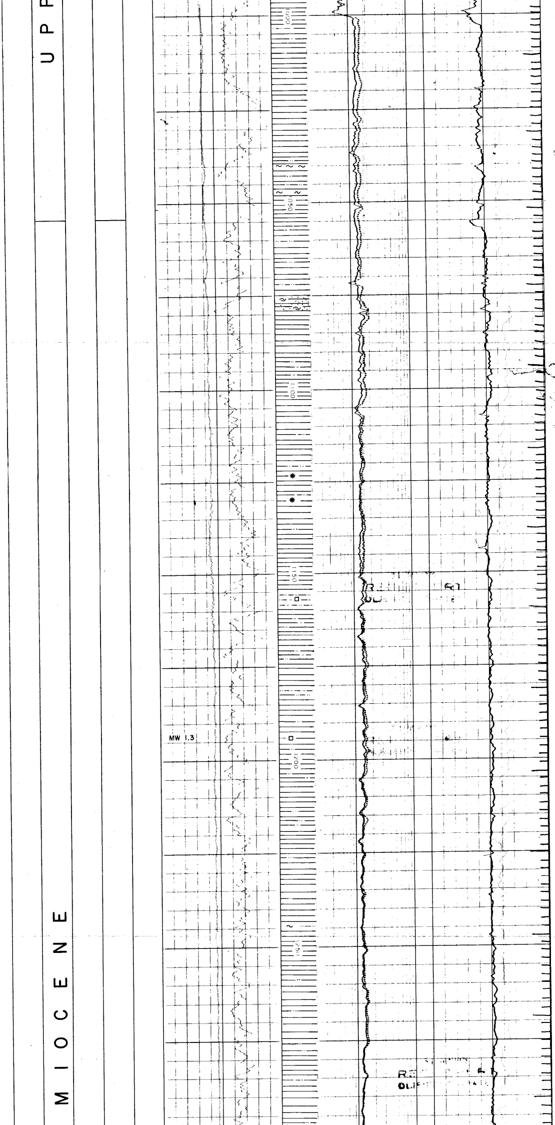
Clay a/a
Tr sand stringers vf
Tr pyrite

B.G. 250 units

Clay a/a

Clay a/a v slty

B.G. 950 units



B.G. 52 units

Clay, lt gy, sft, sticky, slty,
sl calc
Tr marl, lt brn sft

UPPER MIOCENE	1054 m	1,096 sec.
MIDDLE MIOCENE	-1029 m	

Clay a/a, slty - v slty, occ sdy
Tr shell frags

B.G. 50 units

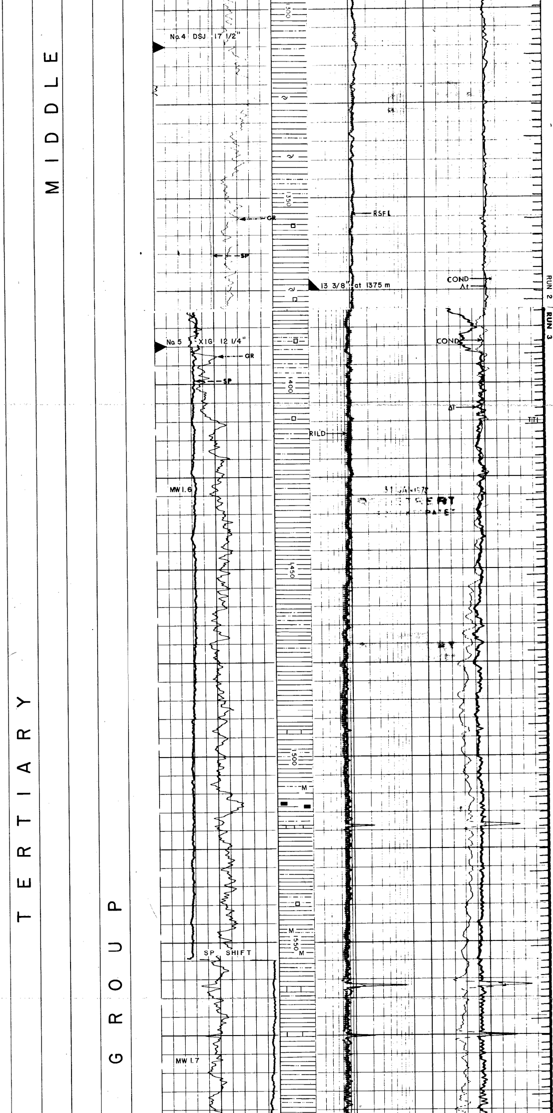
Clay a/a Tr glauconite

Clay a/a sl more slty occ sdy

B.G. 30 units

Tr pyrite

Clay a/a
Tr marl, brn, sft



Clay, lt - md gy, sft, sl slty, sl calc
Tr shell frags

Tr pyrite

B.G. 25 units

Clay a/a, occ v slty
Tr pyrite

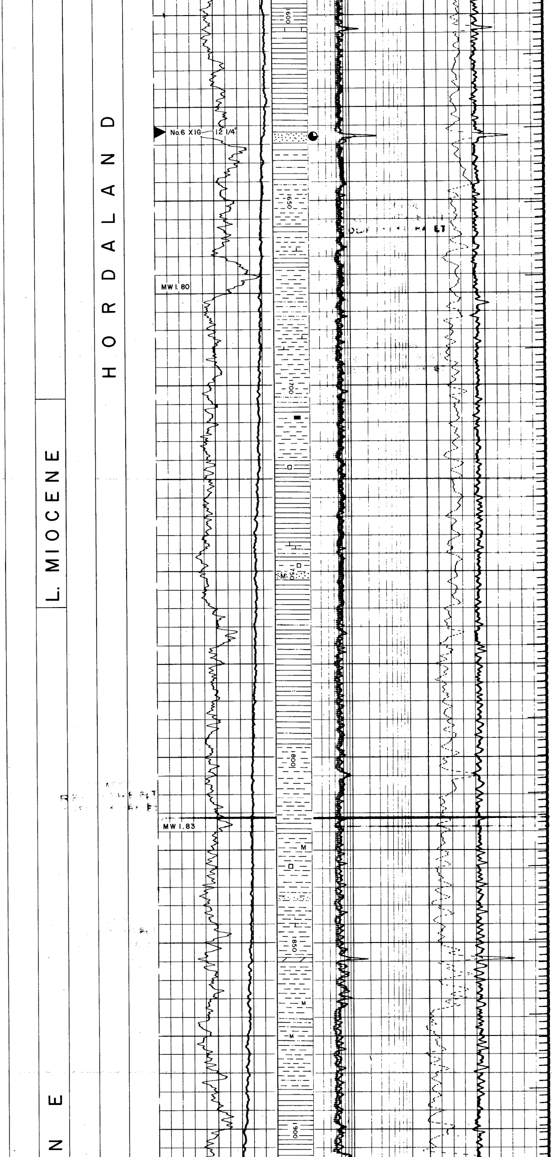
Clay a/a

Clay - clayst, lt-md gy, sft - firm
sl-v slty, sl micaceous
Tr lignite

Limestone stringer

Clay - clayst a/a occ w/thin
limestone streaks, lt gy,
wh in parts, hd

Limestone stringer, lt gy - wh, hd



Clay a/a

B.G. 850 units

Sand stringer, vf - md grn,.qtz,
dull - lt yel, firm. Oil show
dull yel fluor
fast lt blue-milky cut
lt brn res-cut

Shale, lt-md gy - grn gy, mod hd,
micromic, occ sl calc

Shale a/a

MIDDLE MIOCENE 1704 m 1,717 sec
LOWER MIOCENE -1679 m

Tr lignite
Shale a/a interbed w/clay a/a

T.G. 2000 units at 1718 m

Tr limestone, wh - lt brn; hd

Sand stringer, vf, qtz grn, slty
clear-wh, surnd rnd, micac

LOWER MIOCENE 1760 m 1,778 sec.
OLIGOCENE -1735 m

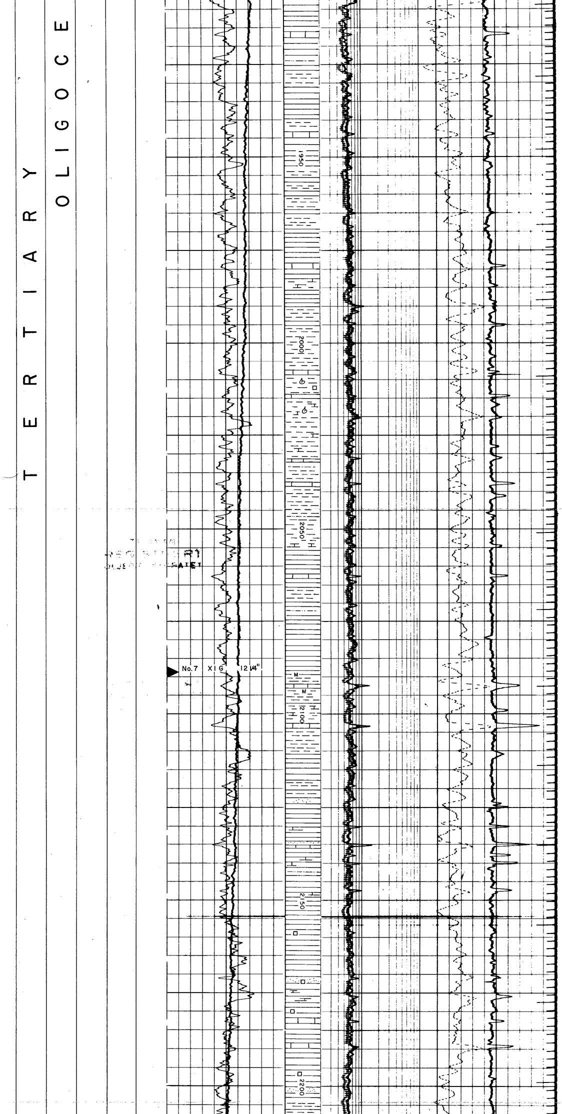
Clay - clayst, lt brn - lt gy,
sticky, slty, sft firm,
non calc, micromic

Shale, lt grn, occ slty, micac,firm
Tr pyrite

Sand stringer, vf, v slty, subrnd-
rnd qtz grains

Dolomite, lt yl brn, hd, mass

Shale a/a, partly v micac , slty



Clay - claystone interbed w/shale
a/a and occ thin limestone
stringers

Shale a/a and med gy, micromic,
firm, sl calc
Tr fossil frags
Tr pyrite

Limestone stringers

Clay - clayst w/limestone
stringers a/a

Shale, dk gy - dk brn, firm, slty
v micac, sl calc
limestone stringers, wh yl brn

Clay, med brn sft, stky, v slty
interbed w/shale a/a
limestone stringers a/a

Clay a/a, lt grn in parts
Tr pyrite

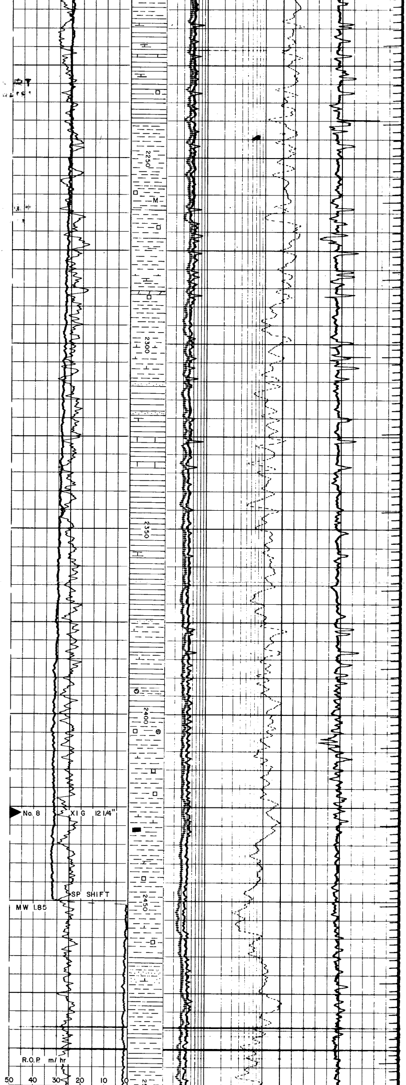
Thin sand stringers, vf - med ,
loose, wh-clr, qtz

Tr pyrite

TERTIARY

EOCENE

HORDALAND GROUP



Clay - claystone, dk gy - brn, sft, firm, sl calc, slty, pyritic
occ limestone streaks

Shale, dk gy - blk, firm, slty sl calc, mic

OLIGOCENE	2265 m	2,280 sec.
EOCENE	-2230 m	

Tr dolomite, med gy, hd

Clay - claystone, dk brn, firm, sl calc, slty

Limestone stringers

Tr siderite

Shale, med gy - dk gy, sl calc, firm, pyritic
Tr siderite, dk brn, hd

Tr lignite

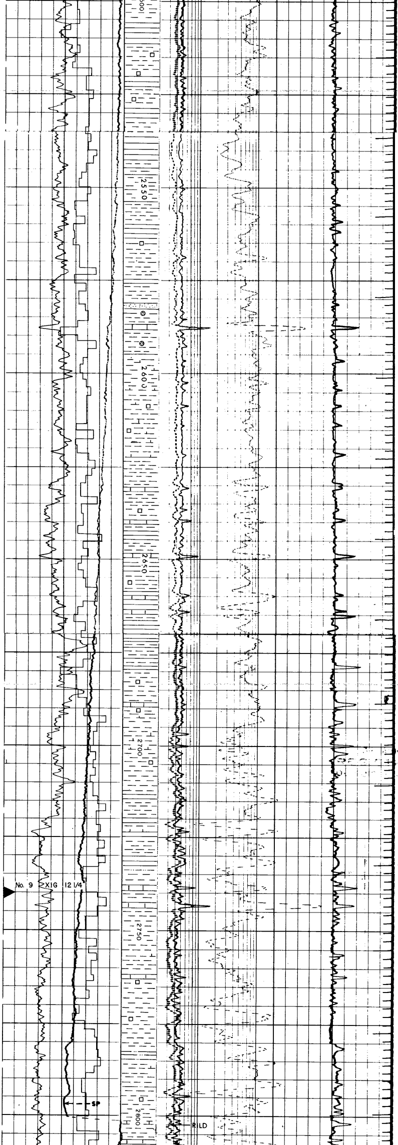
Tr dolomite, lt brn-yl brn, firm

Shale a/a w/thin sand stringers, wh-clear, v f-f, loose, slty, subrnd-rnd

Clay, pale yel brn, sft, stky, slty interbed w shale, lt gy-med gy, grn gy, firm, in parts sl calc

ENE

DALAND GROUP



Tr pyrite

Sand stringer , wh, clear vf - f

Limestone, wh - lt gy, firm siderite, brn, mod

Clay, lt gy-pale yl brn, stky, sft slty, sl calc interbed w/shale lt-med gy-grn-gy, firm-mod hd and limestone stringer, wh-buff, firm

Tr pyrite

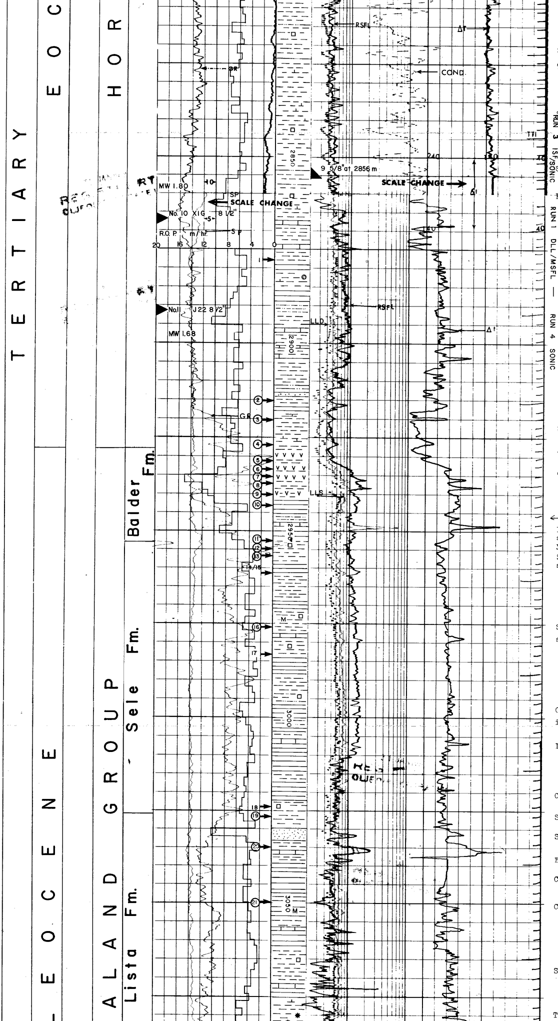
Limestone stringers, wh-tan, firm mod hd

Shale, lt- dk gy, grn gy, firm, mod hd, sl calc, occ interbed w/clayst, pale yel brn, lt gy, firm

Tr pyrite

Shale a/a interbed w/clay-clayst a/a, occ thin limestone streaks wh-lt gy buff, sft-mod hd

Shale a/a, sl slty



Shale a/a, occ sl slty

Tr limestone, lt grn- gy - buff
occ wh, firm

Shale a/a and thin limestone
streaks a/a, pale yel weak cut
no fluor

Shale a/a sl slty, v weak cut

B.G. 55 units

Shale, med-lt gy, grn gy, blue gy,
lt brn, firm-hd, slty

Tr limestone, wh-buff, firm

Lost circ at 2866 m

Shale a/a interbed w/clay, lt-
med gy sft, sticky and thin
limestone stringers, wh buff,
firm,

Tr siderite

Shale, lt-med gy, firm-hd, slty,
occ grn gy, firm, sl calc

Thin sand stringer, clear, vf-med,
subang -subrnd

Shale, dk-med gy firm, slty, sl calc

EOCENE 2928 m
PALEOCENE -[illegible] m
2,897 sec.

Tuff, lt gy, lt blue, firm, non
calc, wh & lt brn spots inter-
bed, thin shale laminae,
dk gy, hd

Clay-clayst, blue gy
lt-med gy, firm, sl
calc, occ blk, non
calc

Limestone
stringer,
yel brn, hd

Shale, dk-med gy, slty, firm
sl calc, occ blk, non calc

Shale, lt-med gy, wh in parts,
slty, micac, firm, hd, non calc

Clay, lt gy, sft, stky, non calc
interbed w/shale a/a, slty

Limestone stringer, wh-lt yel-
brn, firm

Clay a/a

Shale med gy a/a, non calc

Sand, clear-wh, med, subang
loose-friable, sl calc

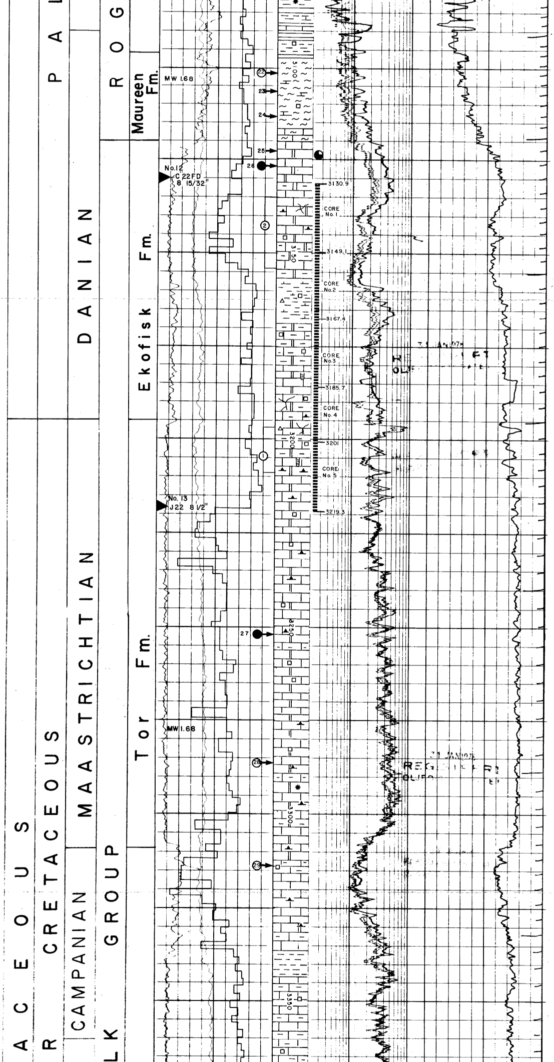
B.G. 40 units

Clay a/a and rd brn, sft, partly
slty, sl calc-calc

Clay, rd brn, sft, stky w/some
hd conc, dk-med gy-brn, non calc,
micac

Shale, lt grn, lt-med gy, brn red-
brn, firm, slty in parts, gry
and brn lamina

Tr glauconite



Shale a/a interbed w/clay a/a

	3090 m	3,031 sec.
DANIAN	-3065 m	

Tr pyrite

Marl, lt gy-med gy, firm,occ slty

Marl a/a, partly chalky

	3120 m	3,052 sec.
	-3095 m	

Limestone, lt gy-wh, brn in parts mod hd-firm, chalky in parts,arg v weak dull yel fluor, no to v weak cut

FOR DETAILS, SEE CORE DESCRIPTIONS

Chalky limestone, lt brn buff, micritic, hd, partly argill,occ thin shale stringers, lt-med gy w/brn laminae, lt yl fluor med str, lt bluish cut

Tr stylolite
Tr pyrite
Tr chert nodules

Limestone a/a in parts bioturbated burrows

Minor fractures

DANIAN	3195 m	3,091 sec
MAASTRICHTIAN	-3170 m	

Limestone, chalky, v lt gy-buff, some lt brn stain, hd, micritic argill, bioturb. in parts fractured, occ stylolites Poor - no fluor or cut

Tr pyrite concretions

Limestone, chalky, lt gy, lt brn, hd argill, pale yel fluor, slow yel cut

Limestone a/a massive w/stylolites

Limestone a/a occ wh, hd, no shows

Tr glauconite

MAASTRICHTIAN	3308 m	3,142 sec
CAMPANIAN	-3283 m	

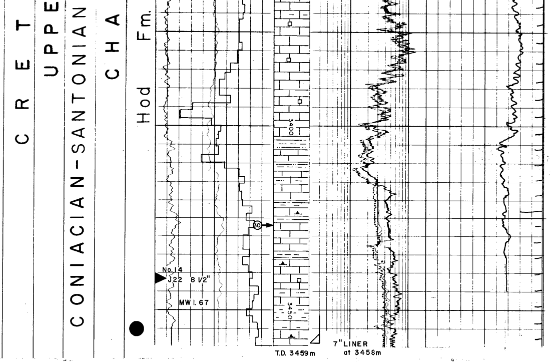
Limestone, wh-lt gy, hd, homogeneous no shows

Shale, med-dk gy, mod hd, non calc

Limestone, wh-v lt gy, occ buff, mod hd-hd slty, homogenous, weak fluor, hazy-poor cut

Limestone a/a, no shows

CAMPANIAN	3361 m
SANTONIAN	-3336 m



Tr pyrite

Limestone, wh-buff, mod hd-hd, slty homogenous, interbed w/shale, med gy, mod hd-hd, v slty, non calc

Limestone, lt-med gy, wh in parts, hd, v argill ———— 3,196 sec

Shale, dk grn gy-med dk gy, firm-mod hd, non calc, occ sl slty, interbed w/limestone, wh-buff and occ slty. Tr of stylolites
No shows

31 JAN 1978
REGISTRERT
[illegible]

1/9-2

DST 1: 3197 - 3209 m (RKB)
Approx. 60 bbl/d of water and acid after acid stimulation
Oil: 2 - 10%. Gravity: 34,0° API

DST 2: 3130 - 3154 m (RKB)
Approx. 96 bbl/d of water and acid after the retest procedure.
Oil: 2 - 17%. The smallest value probably most representative.
Gravity: 35,2 - 35.7° API

FOR DETAILS, SEE COMPLETION REPORT