SIMON PETROLEUM TECHNOLOGY

WELL: 25/11-4

Print: 2141D	Units: M [✓ F]	Top	Bottom	Scale	TD
Length: 17 FT	Initials: IM	450	6210	1:500	6222

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY

COMPLETION LOG

COMPLETION - 0 D

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PROPRIETARY **EXPLORESSO**

ESSO EXPLORATION NORWAY INC.

COMPLETION LOG

Scale 1:500

Well Name 25/11-4	Status Plugged and abandoned

Area North Sea offshore Norway	Well Classification Extension test	Total Depth 6222 ft.	Deepest Penetration DANIAN
Location Lat.: 59° 09'38,785"N Long.: 02° 23'25,069"E	Date Spudded 15. oct. 1970	Elev. of Datum 33 ft RT	Water Depth 417 ft.
Prepared by ESSO EXPLORATION NORWAY INC.	Date Total Depth Reached 16 Nov. 1970	Casing Data 30" at 587' 20" at 1260' 9 5/8" at 3110'	Rig GLOMAR GRAND ISLE
Date: January, 1971 Revised:	Date Oper. Completed 20 Nov. 1970		Contractor GLOBAL MARINE

LOGS RUN

IES	BHC Sonic-GR	Formation Density		
I. 3108'- 6186'	I. 3108'- 6179' GR only 450'- 3108'	I. 3108'- 6188'		

Seismic check shots

NONE

LITHOLOGIC SYMBOLS
(PROVISIONALLY APPROVED FOR FIELD TESTING)

?	*CLAY (NONFISSILE) - CLAYSTONE < 03mm*
-- --	*CLAY (FISSILE) OR SHALE < 03mm*
∧∧∧∧	*MUDSTONE*
∧∧∧∧	*SILT, COARSE (03-06mm) AND SILSTONE*
·	*SAND (06-2 mm) AND SANDSTONE*
○	*GRANULE BOULDER (> 2mm) AND CONGLOMERATE*
Q	*QUARTZ*
▭	*FELDSPAR*
⟩	*LITHIC OR ROCK FRAGMENTS*
◆	*PYRITE*
ϕ	*SIDERITE*
△	*CHERT*
█	*COAL*
▬	*CARBONACEOUS MATTER*
~	*GLAUCONITE*
'	*PHOSPHATE*
V	*VOLCANIC ASH OR BENTONITE*
⅂	*MICA*
++	*GYPSUM*
+	*ANHYDRITE*
×	*HALITE*
✱	*POTASSIUM OR MAGNESIUM SALTS*

⊞	*LIMESTONE*
⊥	*DOLOMITIC LIMESTONE* ⊥⊥ *VERY DOLOMITIC*
/⊥/	*CALCAREOUS DOLOMITE* ⊥⊥ *VERY CALCAREOUS*
/ /	*DOLOMITE*
∽	*MARL*

SPECIFY TYPE OF CARBONATE BY ADDING TO BASIC LIMESTONE OR DOLOMITE SYMBOL THE APPROPRIATE ABBREVATION AS SHOWN BELOW

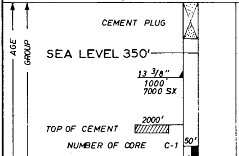
M	*M = MICRITIC LIMESTONE*
G	*G = GRAIN LIMESTONE (FOR GENERAL USE)*
S	*S = SKELETAL LIMESTONE (FRAGMENTED AND NONFRAGMENTED)*
P	*P = PELLETAL LIMESTONE*
F	*F = FRAMEBUILDER LIMESTONE*
ʘ	*ʘ = OOLITIC LIMESTONE*
K	*K = CHALK*
D	*D = DETRITAL LIMESTONE*
L	*L = LUMP LIMESTONE*
m	*m = MICROCRYSTALLINE OR MICROGRAINED < 03mm*

IGNEOUS ROCKS

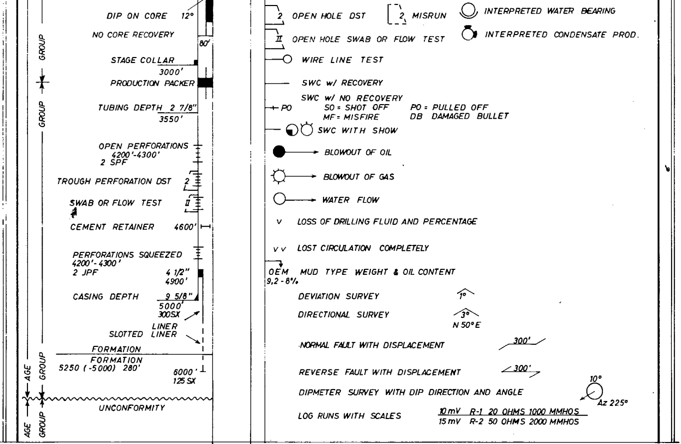
∴	*IGNEOUS ROCKS IN GENERAL (WRITE OUT THE NAME WHERE THE SPECIFIC TYPE IS KNOWN)*

METAMORPHIC ROCKS

▨	*METAMORPHIC ROCKS IN GENERAL (WRITE OUT THE NAME WHERE THE SPECIFIC TYPE IS KNOWN)*


AGE
GROUP
CEMENT PLUG
SEA LEVEL 350'
13 3/8"
1000
7000 SX
2000'
TOP OF CEMENT
NUMBER OF CORE
C-1
50'

◔	*SHOW OR STAIN*	●	*OIL PRODUCTION*
◕	*HYDROCARBON CUT*	☼	*GAS PRODUCTION*
◐	*FLUORESCENCE*	✪	*CONDENSATE PRODUCTION*
☼	*GAS SHOW*	○	*WATER PRODUCTION*
	ABOVE SYMBOLS MAY BE COMBINED	◒	*INTERPRETED OIL PRODUCTIVE*
∏	*DEVIATED OR SIDETRACKED HOLE*	☼	*INTERPRETED GAS PRODUCTIVE*


DIP ON CORE 12°
NO CORE RECOVERY
80'
GROUP
STAGE COLLAR
3000'
PRODUCTION PACKER
GROUP
TUBING DEPTH 2 7/8"
3550'
OPEN PERFORATIONS
4200'-4300'
2 SPF
TROUGH PERFORATION DST 2
SWAB OR FLOW TEST II
CEMENT RETAINER 4600'
PERFORATIONS SQUEEZED
4200'-4300'
2 JPF
4 1/2"
4900'
CASING DEPTH 9 5/8"
5000'
300SX
LINER
SLOTTED LINER
FORMATION
FORMATION
5250 (-5000) 280'
6000'
125 SX
AGE
GROUP
UNCONFORMITY
AGE
GROUP
2 OPEN HOLE DST
2 MISRUN
INTERPRETED WATER BEARING
II OPEN HOLE SWAB OR FLOW TEST
INTERPRETED CONDENSATE PROD.
WIRE LINE TEST
SWC w/ RECOVERY
SWC w/ NO RECOVERY
PO
SO = SHOT OFF
MF = MISFIRE
PO = PULLED OFF
DB DAMAGED BULLET
SWC WITH SHOW
BLOWOUT OF OIL
BLOWOUT OF GAS
WATER FLOW
V LOSS OF DRILLING FLUID AND PERCENTAGE
V V LOST CIRCULATION COMPLETELY
OEM MUD TYPE WEIGHT & OIL CONTENT
9,2 - 8%
DEVIATION SURVEY
1°
DIRECTIONAL SURVEY
3°
N 50° E
NORMAL FAULT WITH DISPLACEMENT
300'
REVERSE FAULT WITH DISPLACEMENT
300'
DIPMETER SURVEY WITH DIP DIRECTION AND ANGLE
10°
Az 225°
LOG RUNS WITH SCALES
10 mV R-1 20 OHMS 1000 MMHOS
15 mV R-2 50 OHMS 2000 MMHOS

SCHLUMBERGER INDUCTION-ELECTRICAL LOG

COUNTY Norway
FIELD or LOCATION Wildcat
WELL 25/11 - 4
COMPANY Esso Exploratio

COMPANY ESSO EXPLORATION NORWAY, INC.
WELL 25/11 - 4
FIELD WILDCAT
COUNTY NORWAY STATE NORTH SEA

LOCATION 59° 09' 38.705" N
02° 23' 25.069" E
Sec. Twp. Rge.

Other Services:
BHC-GR, FDC,
CST

Permanent Datum: MSL, Elev. 0
Log Measured From RT, 33 Ft. Above Perm. Datum
Drilling Measured From RT

Elev.: K.B. 34.5
D.F. 33.0
G.L. -450.0

Date	16. Nov.70		
Run No.	One 1/500		
Depth—Driller	6220		
Depth—Logger	6187		
Btm. Log Interval	6186		
Top Log Interval	3108		
Casing—Driller	9 5/8 @ 3110	@	@
Casing—Logger	3108		
Bit Size	8-1/2"		
Type Fluid in Hole	FreshWater XP20Spersene		
Dens. | Visc.	11.2 | 56	|	|
pH | Fluid Loss	11.5 | 4.2 ml	| ml	| ml
Source of Sample	Circulation		
Rm @ Meas. Temp.	1.50 @ 75 °F	@ °F	@ °F
Rmf @ Meas. Temp.	0.79 @ 75 °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.7 @ 75 °F	@ °F	@ °F
Source: Rmf | Rmc	Press | Press	|	|
Rm @ BHT	0.7 @ 160 °F	@ °F	@ °F
Time Since Circ.	12 hrs.		
Max. Rec. Temp.	160 °F	°F	°F
Equip. | Location	2079 | NRY	|	|
Recorded By	P.Donnez		
Witnessed By	R.Nichols		

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

REMARKS

Changes in Mud Type or Additional Samples		
Date | Sample No.	|	|
Depth—Driller		
Type Fluid in Hole		
Dens. | Visc.	|	|
ph | Fluid Loss	| ml	| ml
Source of Sample		
Rm @ Meas. Temp.	@ °F	@ °F
Rmf @ Meas. Temp.	@ °F	@ °F
Rmc @ Meas. Temp.	@ °F	@ °F
Source: Rmf | Rmc	|	|
Rm @ BHT	@ °F	@ °F
Rmf @ BHT	@ °F	@ °F
Rmc @ BHT	@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down Hole

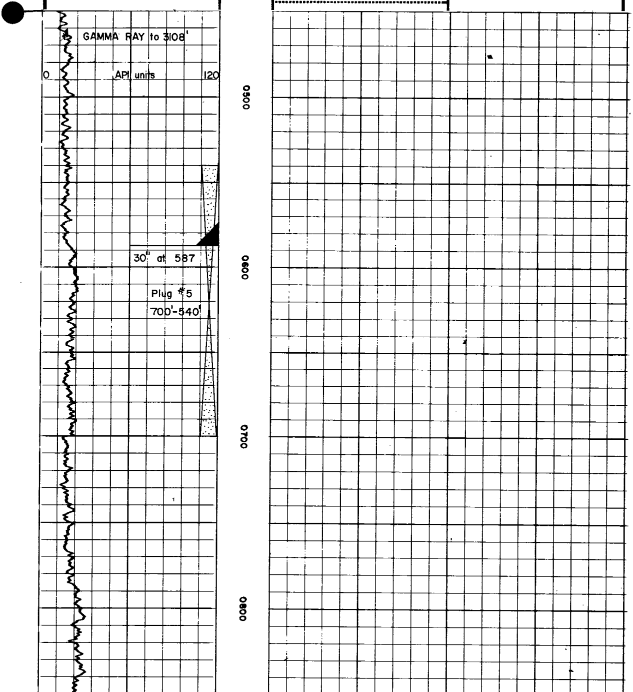
Equipment Data

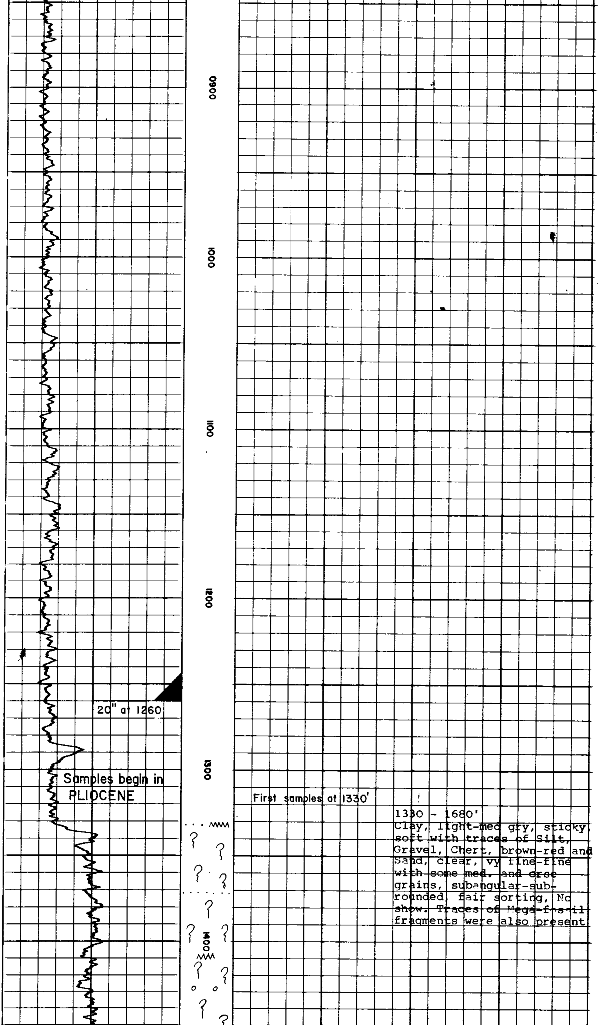
Run No.	Tool Type	Tool Position	Other
1	6FF 40	Stand off	

C.D.:	- S.O.:	1-½"
Equip. Used:	CART. No.	IRC-FB 283
	PANEL No.	IRP-F 396, IAP-DP 11A
	SONDE No.	IRS-M 691
	IAP No.	DP 11A
	SBR =	1

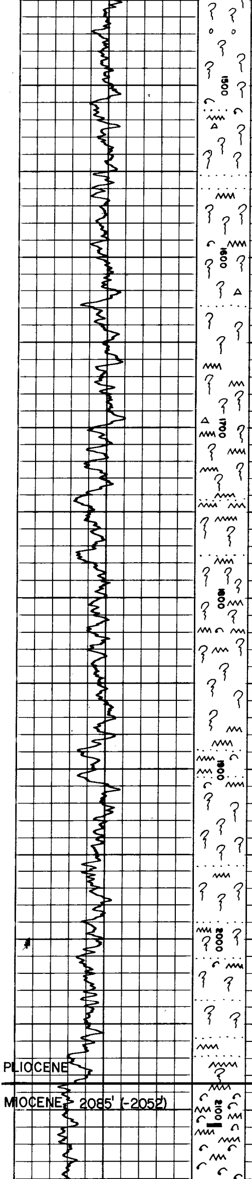
SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos/m = $\frac{1000}{\text{ohms. m}^2/\text{m}}$
10 — |<->| +		6FF40 INDUCTION 2000 0 4000 2000

RESISTIVITY -ohms. m²/m
A - 16" - M SHORT NORMAL 0 10
INDUCTION 0 10





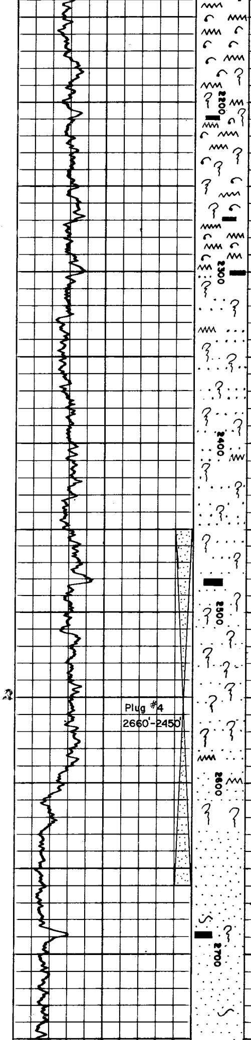
1330 - 1680'
Clay, light-med gry, sticky, soft with traces of Silt, Gravel, Chert, brown-red and Sand, clear, vy fine-fine with some med. and crse grains, subangular-subrounded, fair sorting, No show. Traces of Mega-fossil fragments were also present



1680 - 1770
Clay, as above, with Silt-Siltstone, buff, very argillaceous, soft.

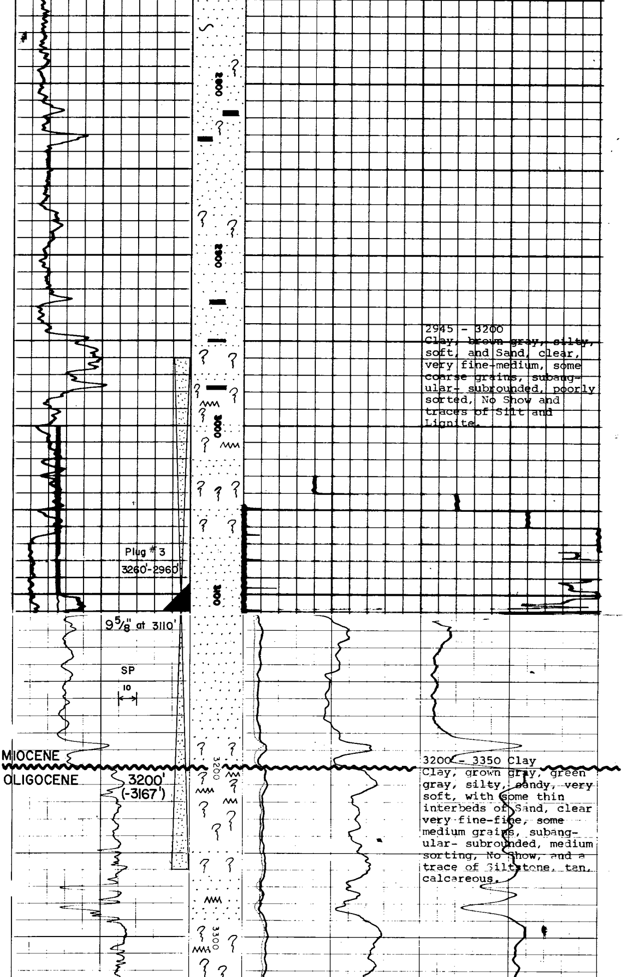
1770 - 2080
Clay, as above, with traces of Sand, Silt-Siltstone, and Megafossil fragments.

2080 - 2300
Coquina (Megafossil fragments) with Clay, as above, and Silt-Siltstone, medium gray, very argillaceous, soft, trace of Lignite.



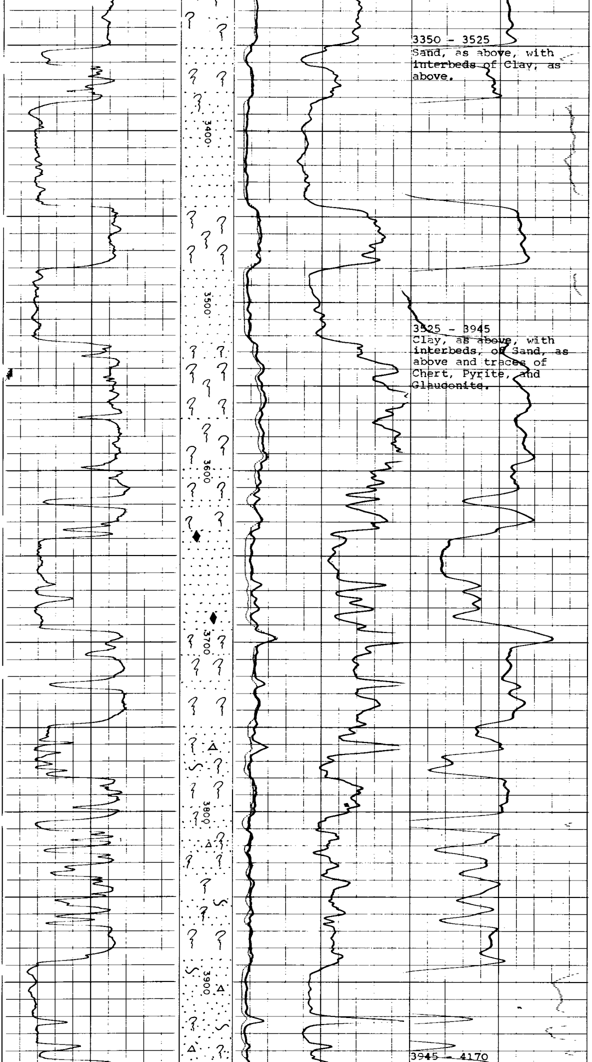
2300 - 2605
Clay, green gray, silty, soft with Sand, clear, very fine-fine, quartz, subangular, well sorted, No Show.
Traces of Lignite and Silt.

2605 - 2945
Sand, clear, very fine-coarse, subrounded, poorly sorted, No Show, with Clay, medium gray, silty, soft, and traces of Lignite and Glauconite.



2945 - 3200
Clay, brown gray, silty, soft, and Sand, clear, very fine-medium, some coarse grains, subangular- subrounded, poorly sorted, No Show and traces of Silt and Lignite.

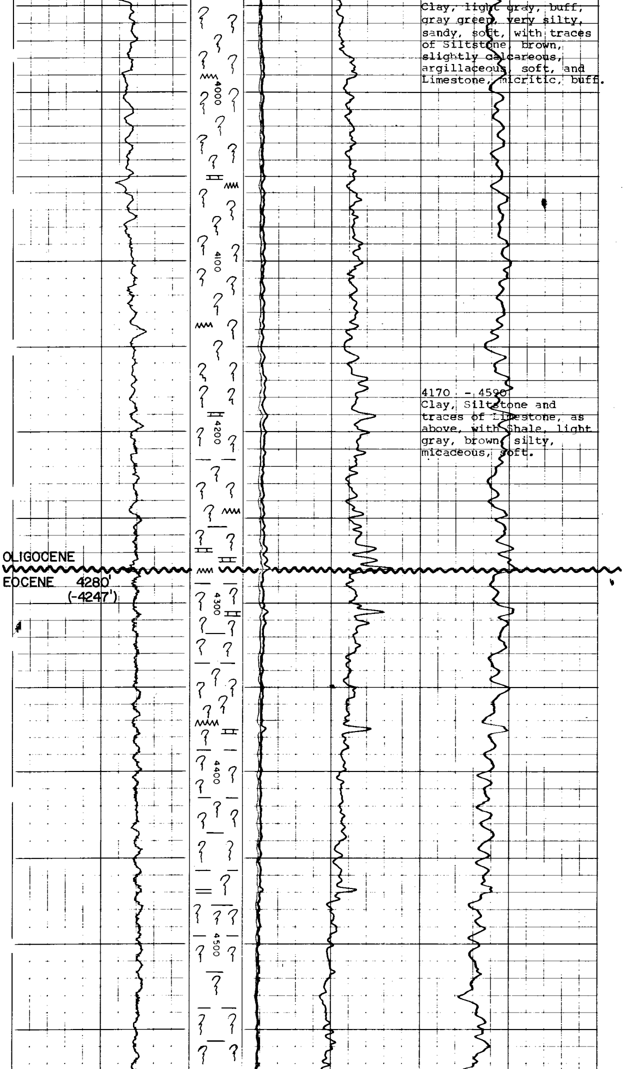
3200 - 3350 Clay
Clay, grown gray, green gray, silty, sandy, very soft, with some thin interbeds of Sand, clear very fine-fine, some medium grains, subangular- subrounded, medium sorting, No Show, and a trace of Siltstone, tan, calcareous.



3350 - 3525
Sand, as above, with interbeds of Clay, as above.

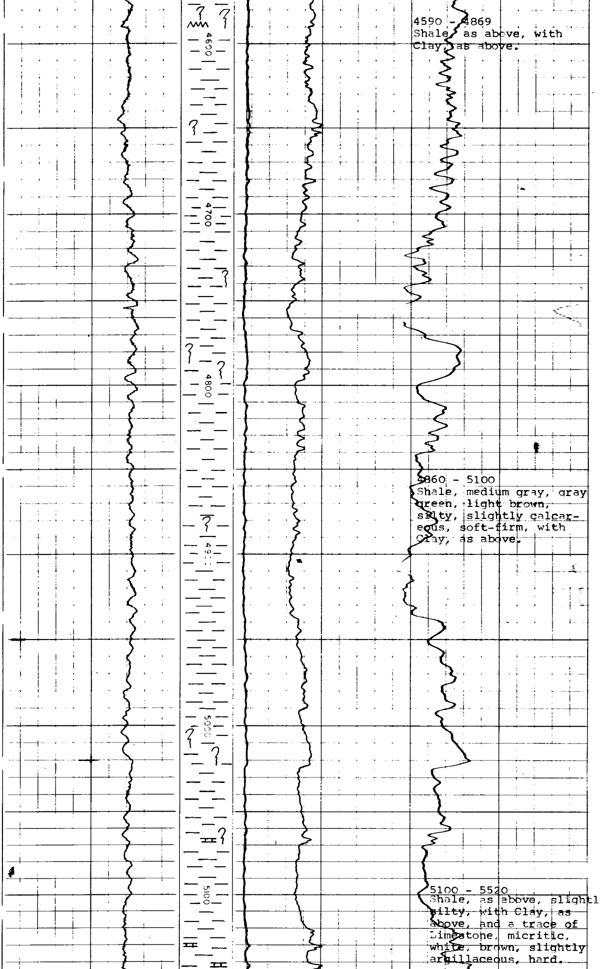
3525 - 3945
Clay, as above, with interbeds, of Sand, as above and traces of Chert, Pyrite, and Glaudonite.

3945 - 4170



Clay, light gray, buff, gray green, very silty, sandy, soft, with traces of Siltstone, brown, slightly calcareous, argillaceous, soft, and Limestone, micritic, buff.

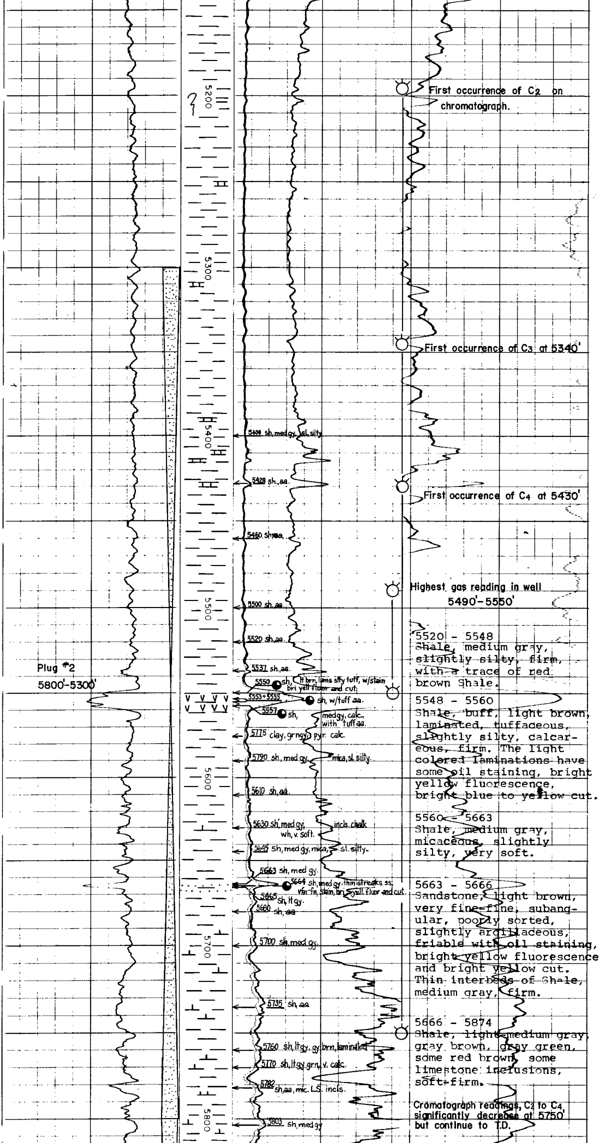
4170 - 4590
Clay, Siltstone and traces of Limestone, as above, with Shale, light gray, brown, silty, micaceous, soft.



4590 - 4869
Shale, as above, with Clay, as above.

4860 - 5100
Shale, medium gray, gray green, light brown, silty, slightly calcareous, soft-firm, with Clay, as above.

5100 - 5520
Shale, as above, slightly silty, with Clay, as above, and a trace of Limestone, micritic, white, brown, slightly argillaceous, hard.



5520 - 5548
Shale, medium gray, slightly silty, firm, with a trace of red brown Shale.

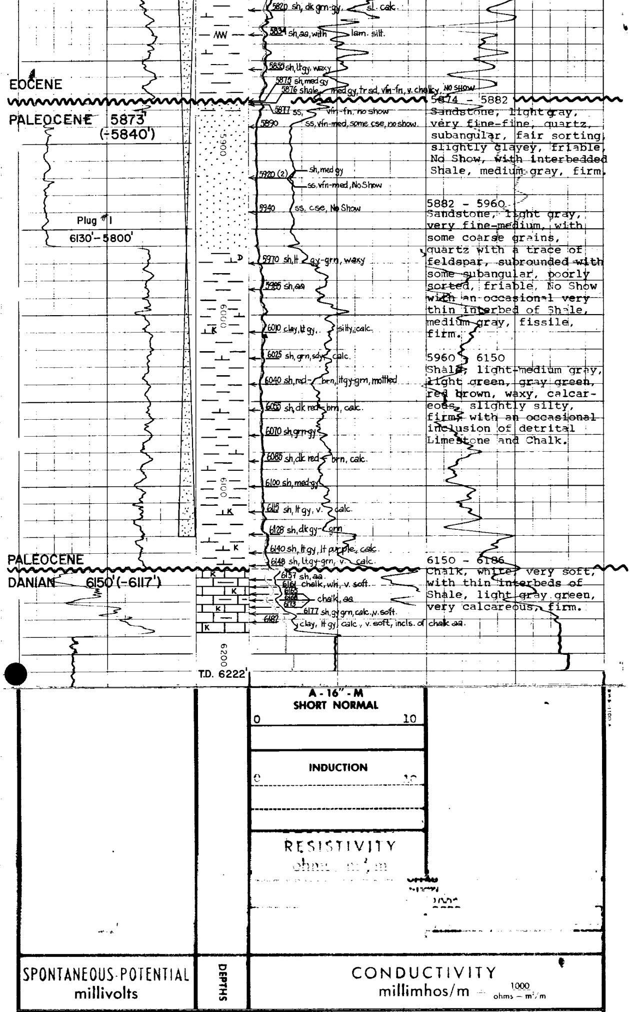
5548 - 5560
Shale, buff, light brown, laminated, tuffaceous, slightly silty, calcareous, firm. The light colored laminations have some oil staining, bright yellow fluorescence, bright blue to yellow cut.

5560 - 5663
Shale, medium gray, micaceous, slightly silty, very soft.

5663 - 5666
Sandstone, light brown, very fine-fine, subangular, poorly sorted, slightly argillaceous, friable with oil staining, bright yellow fluorescence, and bright yellow cut. Thin interbeds of Shale, medium gray, firm.

5666 - 5874
Shale, light-medium gray, gray brown, gray green, some red brown, some limestone inclusions, soft-firm.

Cromatograph readings, C_2 to C_4, significantly decrease at 5750' but continue to T.D.



5874 - 5882
Sandstone, light gray, very fine-fine, quartz, subangular, fair sorting, slightly clayey, friable, No Show, with interbedded Shale, medium gray, firm.

5882 - 5960
Sandstone, light gray, very fine-medium, with some coarse grains, quartz with a trace of feldspar, subrounded with some subangular, poorly sorted, friable, No Show with an occasional very thin interbed of Shale, medium gray, fissile, firm.

5960 - 6150
Shale, light-medium gray, light green, gray green, red brown, waxy, calcareous, slightly silty, firm, with an occasional inclusion of detrital Limestone and Chalk.

6150 - 6186
Chalk, white, very soft, with thin interbeds of Shale, light gray green, very calcareous, firm.

COMPANY ESSO EXPLORATION NORWAY, INC.

WELL 25/11 - 4

FIELD WILDCAT

COUNTY NORWAY STATE NORTH SEA

SWS FR 6150

SWS TD 6187

DRLR TD 6220

Elev:

KB 34.5

DF 33.0

GL-450.0

NO CONVENTIONAL CORES TAKEN

No Formation Interval Tests taken

Only recovered Sidewall Cores shown