SIMON PETROLEUM TECHNOLOGY

WELL: 16/2-1

Print: 1897 F	Units: M [✓ F]	Top	Bottom	Scale	TD
Length: 17 FT	Initials: JDT	440	6280	1:500	6268

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY SPT

COMPLETION LOG

2/57

F

PROPRIETARY EXPLORESSO

Well Name Esso Exploration Norway Inc. 16/2-1	Completion Status Plugged & Abandoned

Area NORTH SEA Offshore Norway	Field NFWC	Total Depth Drillers: 6252 ft Wire Line: 6267 ft	Deepest Penetration Basement (Granite , Gneiss)
Location Lat: 58° 53' 35·4"N Long: 02° 21' 32·3"E	Date Spudded 11 JULY, 1967	Elevation of Datum 85 ft 26 m	Depth of Water 372 ft 113 m
Prepared by: ESSO EXPLORATION INC. NORTH SEA STUDY GROUP Date: AUG.1967 A.R. ELDER Revision: MAR. 1969 A.R.E.	Date Total Depth Reached 2 AUG, 1967 Data operations completed 9 AUG, 1967	Casing Data 30" a 538 ft 20" a 611 ft. 13⅜" a 1192 ft. 9⅝" a 3643 ft.	Rig OCEAN TRAVELER Contractor ODECO

NOTE:

Lithology adjusted to Gamma Ray

LOGS RUN

I-ES	L. L.	GR-N	GR	MLL
1197 - 3659 3652 - 6266	1197 - 3655 3652 - 6262			1197 - 3663 3652 - 6267

Cal-Sonic	GR-Sonic	Cont.DipMeter	Section Gauge	Density Log
	460 - 1257 1197 - 3653 3652 - 6257	1197 - 3657		1197 - 3663 3652 - 6266

LITHOLOGIC SYMBOLS

PROVISIONALLY APPROVED FOR FIELD TESTING

CLAY, NONFISSILE, CLAYSTONE <.03mm

CLAY, FISSILE, OR SHALE <.03mm

MUDSTONE

SILT, COURSE .03-.06mm, AND SILTSTONE

SAND .06-2mm AND SANDSTONE

GRANULE, BOULDER >2mm AND CONGLOMERATE

QUARTZ

FELDSPAR

[illegible]

PYRITE

CHERT

COAL

CARBONACEOUS [illegible]

PHOSPHATE

VOLCANICS [illegible]

MICA

GYPSUM

ANHYDRITE

LIMESTONE

DOLOMITIC LIMESTONE OR VERY DOLOMITIC

CALCAREOUS DOLOMITE OR VERY CALCAREOUS

DOLOMITE

MARL

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

M MICRITIC LIMESTONE

GRAIN LIMESTONE (FOR GENERAL USE)

SKELETAL LIMESTONE, FRAGMENTED AND NONFRAGMENTED

P PELLETAL LIMESTONE

FRAMEBUILDER LIMESTONE

[illegible] LIMESTONE

K [illegible]

D DETRITAL LIMESTONE

LIMESTONE

MICROCRYSTALLINE OR MICROGRAINED <.03mm

[illegible] WRITE OUT THE NAME WHERE THE SPECIFIC TYPE IS KNOWN

METAMORPHIC ROCK

[illegible] WRITE OUT THE NAME WHERE THE SPECIFIC TYPE IS KNOWN

SHOW OF STAIN

OIL PRODUCTION

GAS PRODUCTION

CONDENSATE PRODUCTION

WATER PRODUCTION

SYMBOLS MAY BE COMBINED

INTERPRETED OIL PRODUCTIVE

INTERPRETED GAS PRODUCTIVE

INTERPRETED WATER BEARING

INTERPRETED CONDENSATE PRODUCTIVE

CORE RECOVERY

SWC WITH NO RECOVERY, SHOT OFF, OR MISFIRE

SWC WITH SHOW

BLOWOUT OF OIL

BLOWOUT OF GAS

WATER FLOW

LOST CIRCULATION

NORMAL FAULT WITH DISPLACEMENT

REVERSE FAULT WITH DISPLACEMENT

DIPMETER SURVEY WITH DIP DIRECTION AND ANGLE

[illegible] WITH SCALES

SCHLUMBERGER

BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

COMPANY	[illegible]
WELL	[illegible]
FIELD	[illegible]
COUNTRY	[illegible]
STATE	[illegible]

Location
58° 53' 30·6"N
02° 21' 21·0"E

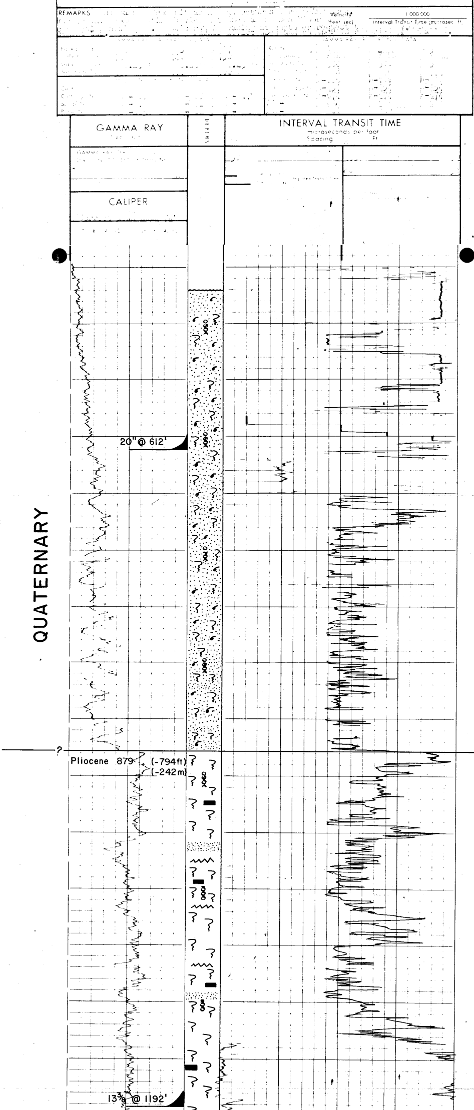
Other Services [illegible]

Ref. No

Permanent Datum [illegible] Elev.
Log Measured From [illegible] Ft. Above Perm. Datum
Drilling Measured From [illegible] Ft. Above Perm. Datum

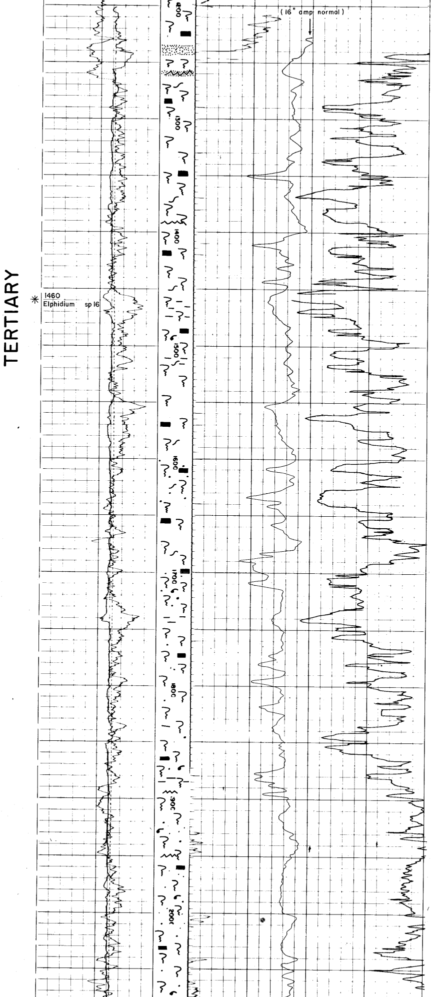
Elev. K.B.
D.F.
G.L.

RUN No. / Depth Scale	[illegible]	[illegible]	[illegible]
Date	[illegible]	[illegible]	[illegible]
First Reading	[illegible]	[illegible]	[illegible]
Last Reading	[illegible]	[illegible]	[illegible]
Interval Measured	[illegible]	[illegible]	[illegible]
Casing Schlumberger	[illegible]	[illegible]	[illegible]
Casing Driller	[illegible]	[illegible]	[illegible]
Depth Reached	1204	[illegible]	[illegible]
Bottom Driller	[illegible]	[illegible]	[illegible]
Mud Nature	[illegible]	[illegible]	[illegible]
Density / Viscosity	[illegible]	[illegible]	[illegible]
Mud Resistivity	[illegible]	[illegible]	[illegible]
Mud Resistivity @ BHT	[illegible]	[illegible]	[illegible]
pH / Fluid Loss	[illegible]	[illegible]	[illegible]
Source of Sample	[illegible]	[illegible]	[illegible]
Rmf	[illegible]	[illegible]	[illegible]
Rmc	[illegible]	[illegible]	[illegible]
Bit Size 1	12-1/4 To 1250	[illegible]	[illegible]
2		[illegible]	[illegible]
Casing Size	[illegible]	[illegible]	[illegible]
Operating Rig Time	[illegible]	[illegible]	[illegible]
Truck No	2034	[illegible]	[illegible]
Recorded By	J. ROSS	[illegible]	[illegible]
Witness	J. VOGEL	[illegible]	[illegible]



470 - 1250
No returns ;
prob. loose sd. gravel, & shells wi. interbedded Clay down to 878'

No Returns to 1250'
from 878' - 1265
probably Clay, lt. gray, plastic, sticky, carb., wi trc. coal, local silty or sandy streaks.

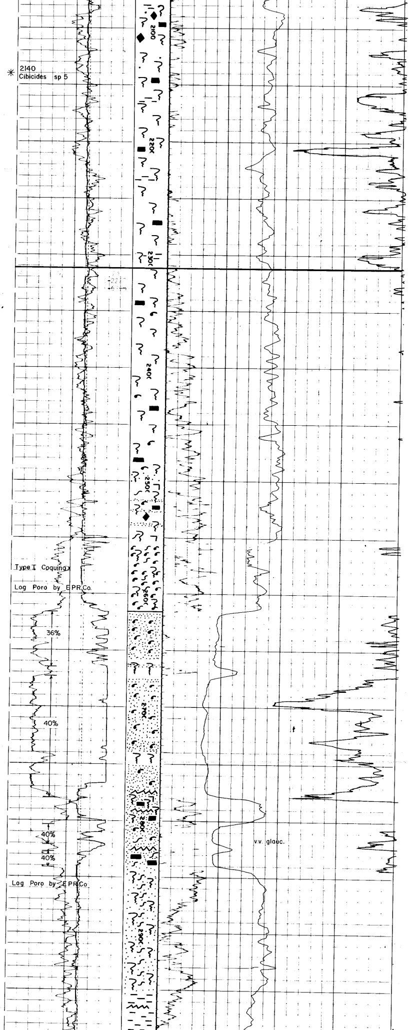


1265 - 1600
Clay, lt gray, plastic,
sticky, glauc, carb,
trc. coal, sli silty
streaks.

trc. sh. brn. silty,
megafossil frags.

1600 - 1730
Clay, lt gray, plastic,
sticky, Sli. carb. lam,
sli. glauc, sli. silty
- sdy, (m. grains,
rounded qtz.)

1730 - 2140
Clay, lt. gray, plastic,
sticky, sli. carb. sli
silty- sdy, Tr. sh,
brn.-gray, carb.



trc. pyr.

2140 - 2490
Clay, as above, but no sand or silt
Tr. sh. brn, carb.

2490 - 2554
Clay, as above, sli. silty-sdy, sli glauc. Trc. mica pyr, & megafossils

2554 - 2613
Coquina, uncemented fossil frags., glauc. common, Prob. clay mtx.

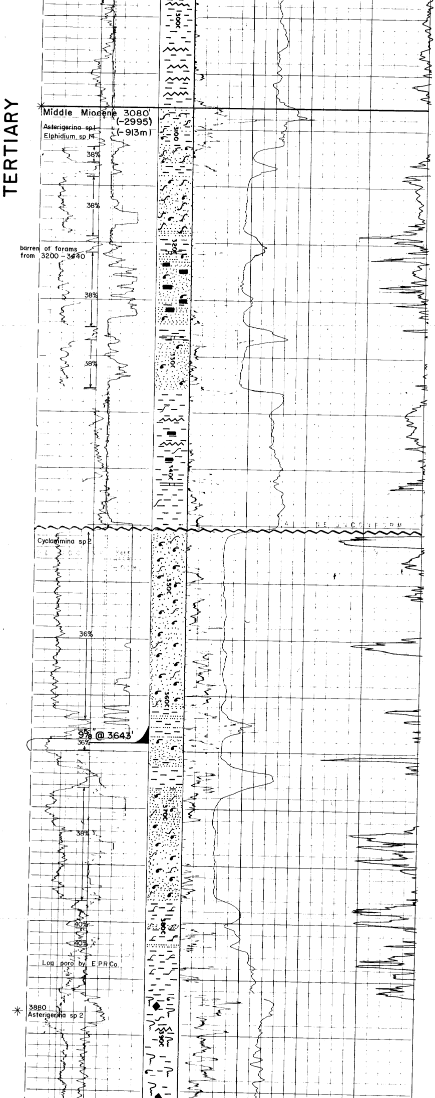
2613 - 2674
Ss. lt. gray, f-m gr, loose, with v. abun. shell debris

2674 - 2750
Ss. lt. gray. f. - crs. gr. loose, abun. shell debris

2750 - 2841
Ss. clear, f. gr. @ top grading to Ss. lt. gray, silty, clayey, sli. mica, carb.

2841 - 2950
Clay, lt gray, sli calc, very very glauc, sdy-silty, megafossil frags common.

2950 - 3080
Sh. lt. brn. to greenish gray silty.



3080 - 3116
Ss. clear, silty - f. gr,
prob. shaley mtx.

3116 - 3340
Ss. clear, f. - m. gr. loose
qtz. gr,
megafossil frags common.
Sh. interbeds, lt. brn.-
green gray.

3195—3210
Clay, med gray, trc.
v. thin Ls lam

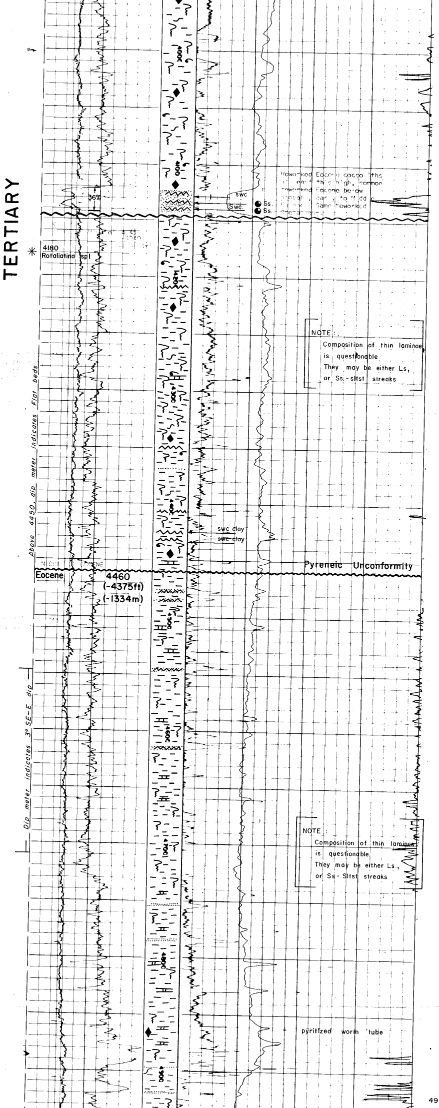
3340 - 3456
Sh, mainly pale red brn,
some greenish gray,
carb, silty, sli glauc.

3456 - 3780
Ss. clear, loose f - m. gr,
v. abun. megafossil frags.
(thin shelled pelecypods)
common — aban glauc

Sh. interbeds probably
pale red brn. - greenish
gray.

3780 - 3865
Sh. brownish gray @
top. lt. greenish gray
@ base thin Ss. lam,
prob. f. - m. gr.
v. abun glauc

3865 - 4120
Sh. clayey, m. gray,
silty trc. pyr, glauc &
fossil frags.



NOTE:
Composition of thin laminae is questionable
They may be either Ls, or Ss.-sltst streaks

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Composition of thin laminae is questionable.
They may be either Ls., or Ss-Sltst streaks

4120 - 4142
Siltstone - Ss. silt. f.gr, friable clayey mtx. gd. poro. gd. fl, gd cut.

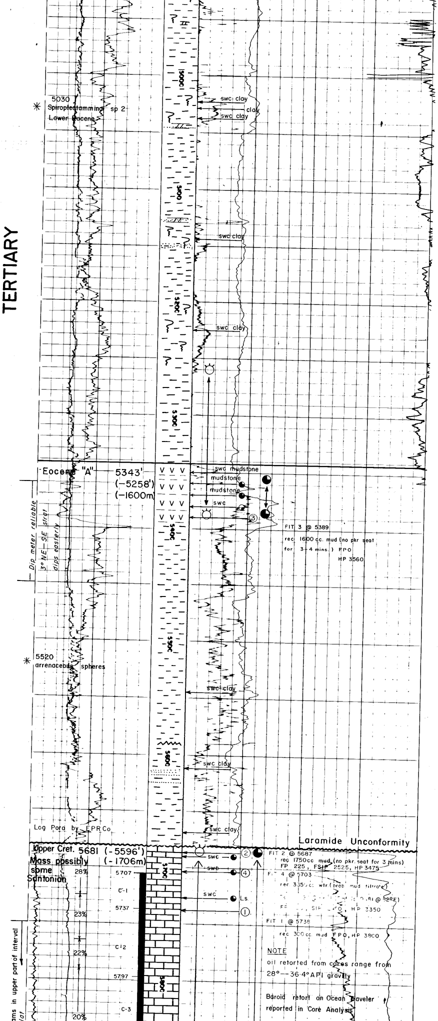
4142 - 4460
Sh. clayey, m.gray silty, as above.
occ. v. thin lam. of silt, brownish gray & Ls., cream - tan, dense.

local v. thin lam. of Ss, white, f. gr, hard.

trc. foram & crinoid stem

4460 - 4965
Sh. greenish gray, silty, mica, v. thin lam. of Ss, f. gr, hard, & Ls., tan, dense.

4920–5130



sh., brownish gray & med greenish gray, non calc, occ. v. thin Dol. lam

5130–5260

Trc. [illegible]
grad [illegible]

5343 – 5395
V. thin lam. of
Tuff
pasty mtx, ft. irreg.
lt. brn oil stn. dull fl.
majority of cuttings
white & NS

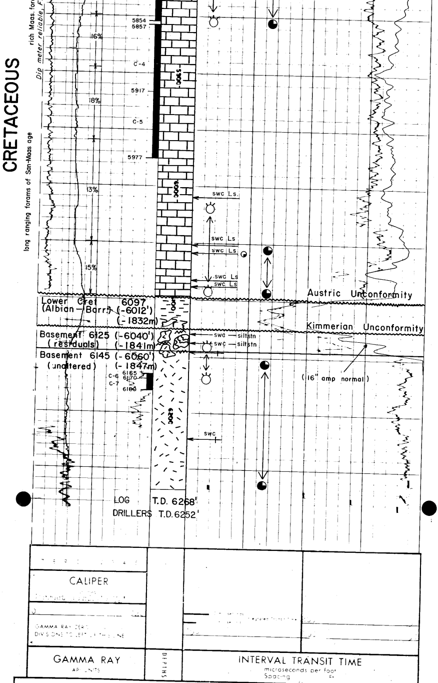
5400–5460
Clay – avacado green,
non calc.

5460–5500
sh., lt olive gray, firm,
brittle, fissile.

5500–5681
interlaminated sh., pale green gray, red brn, & avacado green, firm, brittle.

thin streaks Ss., f. gr.
pasty mtx.

5681 - 6097
Ls, tan-grayish white,
mct - finely xln, hard,
stylolitic, wi. greenish
gray sh. lam.
uniform oil stn @ top
good fl. & cut. high
poro., low perm.



below 5850,
Ls, becomes chalky, oil
shows become streaky,
then NO show.

6099–6110
sh., yellow brn
6110–6125
Marl., pale red brn, v. calc.
wi. calcite conc.
6125 - 6145
Residual basement soils
& boulders of gneiss
6145 – 6268 T.D.
Gneiss - Granite, pink-
tan, coarsely xln,
complexely fractured,
wi. dead oil stn. in fracs,
sli. fl. & cut.

COMPANY
WELL
FIELD
COUNTRY
STATE
SCHL F.R
SCHL T.D
DRLR T.D.