



elf norge a/s

P.O. BOX 168 N-4001 STAVANGER  
7 RUE NELATON 75739 PARIS CEDEX 15

TEL.: 31040  
TELEX: 33174  
TEL.: 578.61.00

Stavanger, 11th July 1973

OUR REF: JR/bf  
73/170

YOUR REF:

**FORTROLIG**  
i h.t. Beskyttelsesinstruksen,  
jfr. offentlighetslovens  
§ ..... nr. ....

STATENS OLJEDIREKTORAT  
Lagårdsveien 80  
4000 STAVANGER

STATENS OLJEDIREKTORAT  
002007 \*12.JUL73  
BEH.AV: .....  
ARKIV DATO: .....

Dear Sirs,

Please find enclosed our program for the well 3/7-1 -  
and the results of the soil survey we made on this location in May 1973.

Yours very truly,

  
J. RENOUX

Enclosures - 1 application  
1 CG DORIS report  
1 Norges Geotekniske Institutt report



# elf norge a/s

P.O. BOX 168 N-4001 STAVANGER  
7 RUE NELATON 75739 PARIS CEDEX 15

TEL.: 31040  
TELEX: 33174  
TEL.: 578 61.00

Stavanger, 11th July 1973

OUR REF: 73/152  
PLR/MCB/bf

YOUR REF:

STATENS OLJEDIREKTORAT  
Lagårdsveien 80  
4000 STAVANGER

STATENS OLJEDIREKTORAT
002007 *12.JUL73
BEH.AV: _____
ARKIV DATO: _____

CONFIDENTIAL

Dear Sirs,

Pursuant to Sections 35 and 39 of the Royal Decree of April 9th, 1965, and Section 6 of the Royal Decree of August 25th, 1967, ELF NORGE A/S acting as operator for the French-Norwegian Group and the Amoco/Noco Group, is requesting your approval for one well we intend to drill on the Norwegian Continental Shelf.

a) Location - Block 3/7 (Licence 023)

X: 04° 00' 00" E + e

Y: 56° 27' 37" N

b) Drilling Platform - OCEAN TIDE

c) Water depth - 64 m - RKB - Sea bottom = 84 m

d) Bottom survey: bottom survey has been carried out. Kullenberg cores have been done - 4 of them have been tested by Norges Geotekniske Institutt -

e) Estimated total depth: 3500 meters

f) Expected geological data: See appendix 1/5000.

The main objectives are Jurassic and Permian sandstones and secondary objects Danian Upper Cretaceous limestones.

g) Drilling program

1) Casing program

<u>Hole</u>	<u>Casing</u>	<u>Weight</u>	<u>Grade</u>	<u>Setting depth RKE</u>
36"	30"	1"	B	115 m
26"	20"	94	X 52	530 m
17"1/2	13"3/8	68	K 55	1440 m
12"1/4	9"5/8	47	N 80	2640 m
8"1/2	7" (1)			3300/3500 m

(1) if any production test

2) Cementing program

- conducting pipe 30": Drilled after predrilling
- casing 20" - cemented up to sea bottom - 80 T class B
- Casing 13"3/8: cemented up to 200 m into 20" csg-  
class B cement - 90 tons
- casing 9"5/8: cemented up to 200 m into 13"3/8 csg-  
50 T class D

3) Mud program

- 36" : drilled with sea-water - no returns
- 26 and 17"1/2: sea-water based mud  
density 1,10 - 1,30 according to formation pressure  
viscosity 55 - 100  
water loss 10 - 15
- 12"1/4 : Same mud  
density 1,30 - 1,50  
viscosity 45 - 50  
water loss 5
- 8"1/2: sea water based mud  
density 1,50 - 1,65  
viscosity 45 - 55  
water loss less than 5

h) Blow out preventers

- 20" BOP stack - 2000 PSI                      Cameron
- 13"5/8 BOP stack - 10.000 PSI
- Well head and mud line suspension Gray -

i) Logging program

Basic runs (minimum program)

- Resistivity log
- Sonic log
- Radioactivity log
- Caliper
- Dipmeter

In addition, for reservoir rocks:

- Neutron
- Microlog and Microlaterolog
- Formation density compensated

j) Coring program

Cores would be possible in each reservoir rocks.  
Side wall cores will be taken in Lower Tertiary and Mesozoic formations.

k) Sample program

Samples will be normally caught at 20' minimum intervals, reduced to 10' and finally 5' as drilling rates declines.

l) Testing program

Conventional tests through perforations in casing will be run, if warranted by log analysis.

m) Contractors and Sub-contractors

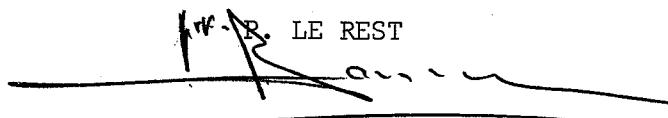
Contractor - ODECO

Sub-contractors:

Logging	- Schlumberger
Cementing	- Dowell Schlumberger
Helicopters	- Helikopter Service
/ Divers	- THREE X /
Mud logging	- Corelab
Mud engineering	- Milchem

In case this forecast would be modified, we will report immediately.

Yours sincerely,  
ELF NORGE A/S

  
R. LE REST