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**ESSO PRODUCTION RESEARCH
EUROPEAN**

PALEONTOLOGICAL STUDY OF THE ESSO 25/10-5 WELL,
BETWEEN 1397.5M AND 2007M, OFFSHORE NORWAY

BY

R. JAN DU CHENE AND M. PONS

EPR-E.WA17.81

AUGUST 1981

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001980

Technical Service Report



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SOCIÉTÉ ESSO DE RECHERCHES ET D'EXPLOITATION PÉTROLIÈRES - ESSO REP
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ESSO PRODUCTION RESEARCH - EUROPEAN

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JORGE FERRER
RESEARCH MANAGER

August 27, 1981

Mr. J.N. Thomas
Esso Exploration & Production
Norway Inc.
P.O. 560
4001 Stavanger

Dear John:

Please find enclosed two copies of our report EPR-E.WA17.81, entitled:
"Paleontological study of the Esso 25/10-5 well, between 1397.5m and 2007m,
offshore Norway" by R. Jan du Chêne and M. Pons.

Stratigraphic tops have been determined between the Early Oligocene to Late
Eocene and the Middle to Early Paleocene.

If you need further information, do not hesitate to contact us.

Sincerely yours,

Jorge Ferrer

/pd

cc.: C.L. Evans (attn.: J. Barrier), Esso Europe, London (w/att.)
J.B. Coffman (attn.: J.M. Widmier), EPRCo., Houston (w/att.)

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INTRODUCTION

The paleontological study of the Esso 25/10-5 well is based on SWC samples situated between 1397.5m and 2007m; 26 of them were studied for palynology and 46 for micropaleontology.

The following stratigraphic tops have been determined:

<u>Depth (m)</u>	<u>Age</u>	<u>Palynology</u>	<u>Micropaleontology</u>
1397.5	Early Oligocene to Late Eocene	VII	Arenaceous forams
1443.5	Middle Eocene	V	
1746	Early Eocene	III	
1756.5			<i>Coscinodiscus</i> sp. 1
1858.5	Late Paleocene	II	
1877	Late to Middle Paleocene	IB	<i>Bolivinopsis spectabilis</i>
1949	Middle to Early Paleocene	IA2	<i>Globigerina triloculinoi-</i> <i>des, Globigerina spp., Glo-</i> <i>borotalia pseudobulloides</i>

STRATIGRAPHY

At 1397.5: Early Oligocene to Late Eocene

This SWC sample contains a good dinoflagellate assemblage from palynozone VII with *Areosphaeridium diktyoplokus*, *A. arcuatum*, *Kisselovia coleothrypta*, *Svalbardella* sp. and *Deflandrea phosphoritica*.

The microfauna is represented by *Trochammina globigeriniformis*, *Ammodiscus incertus*, *Haplophragmoides eggeri*, *Karrieriella pokornyi*, *Cyclammina* sp. and *Glomospira charoides*.

At 1443.5: Middle Eocene

The presence of *Wetzeliella pachyderma* indicates the palynozone V for this sample.

In this SWC *Ammobaculites* sp. 11 and *Bathysiphon discreta* are observed.

At 1735.4: indeterminate

This SWC sample shows a very poor assemblage of pollen.

From 1746 to 1851.5m: Early Eocene

This interval is characterized by the presence of *Deflandrea speciosa*, zone III index dinoflagellate.

At 1756.5m appears *Coscinodiscus* sp. 1.

In this unit, besides *Coscinodiscus* sp. 1, we have also observed arenaceous foraminifera, *Coscinodiscus* sp. 2 and *Triceratium* sp. 1.

At 1858.5m: Late Paleocene

Apectodinium hyperacanthum is recorded at 1858.5m and indicates the palynozone II.

The microfauna is represented by rare *Coscinodiscus* sp. 1 and arenaceous foraminifera.

From 1877m to 1946m: Late to Middle Paleocene

Alisocysta circumtabulata defines the palynozone IB.

Bolivinopsis spectabilis appears at 1877m.

In this interval, microfossils are essentially arenaceous foraminifera.

From 1949m to 2007m: Middle to Early Paleocene

The first occurrence of *Palaeoperidinium pyrophorum* is recorded at 1949m. This index dinoflagellate indicates the palynozone 1A2.

At 1949m, we noted *Globigerina triloculinoides*, *G.* spp. and *Globorotalia pseudobulloides*, forms of an Early to Middle Paleocene age.

The arenaceous foraminifera are always present.

RJDC/MP/pd
August 11, 1981

Appendix 1: Palynology

<u>Depth (m)</u>	<u>Index palynomorphs</u>	<u>Palynozone</u>
SWC		
1397.5	<i>Areosphaeridium diktyoplokus</i> , <i>A. arcuatum</i> , <i>D. phosphoritica</i> , <i>Kisselovia coleothrypta</i> , <i>Svalbardella</i> sp.	VII
1443.5	<i>Wetzeliella pachyderma</i> , <i>A. arcuatum</i> abundant reworked palynomorphs from the Early Jurassic	V
1735.4	Very poor, rare pollen	?
1746	<i>Eatonicysta ursulae</i> , <i>Deflandrea</i> <i>speciosa</i> (rare)	III
1749.5	<i>Thalassiphora pelagica</i> abundant <i>D. speciosa</i> (rare) <i>Eatonicysta</i> <i>ursulae</i>	III
1752.5	Abundant disaccate pollen, <i>D. speciosa</i>	III
1756.5	Pollen & spores abundant. Rare dinos.	III
1765.5	Rare dinos: <i>D. speciosa</i>	III
1771	Poor assemblage	
1776	a.a.	
1779.5	Abundant pollen. <i>D. speciosa</i>	III
1785	Abundance of <i>D. speciosa</i> . Disaccate pollen	III
1795.5	Abundance of <i>D. speciosa</i> . Presence of <i>T. delicata</i>	III
1802.5	<i>D. speciosa</i>	III
1820.5	a.a.	III
1850	Abundance of pollen	
1851.5	<i>D. speciosa</i> . Absence of <i>A. hyperacanthum</i>	III
1858.5	<i>A. hyperacanthum</i>	II

<u>Depth (m)</u>	<u>Index palynomorphs</u>	<u>Palynozone</u>
1877	<i>Alisocysta circumtabulata</i>	IB
1903	<i>Alisocysta circumtabulata</i>	IB
1946	<i>Alisocysta circumtabulata</i>	IB
1949	<i>Palaeoperidinium pyrophorum</i>	1A2
1955.5	a.a.	1A2
1958	a.a.	1A2
1967	a.a.	1A2
1976	a.a.	1A2

Appendix 2: List of SWC studied for Micropaleontology

<u>Depth (m)</u>	<u>Depth (m)</u>
1397.5	1798
1405	1802.5
1432	1807.2
1443.5	1812.2
1734	1818.5
1737.4	1820.5
1739	1824
1746	1827.5
1749.5	1839.5
1752.5	1850
1756.5	1851.5
1759.5	1858.5
1762.5	1877
1771	1891
1775	1903
1777	1946
1779.5	1949
1784	1955.5
1785	1958
1791.6	1967
1794.3	1976
1795.6	2007