



	BURTON		ANDRESE
①	GEHO B	②	DROLYN 2
	ZANG		MALVIK
	ENGLEHORN		MILLER
			SKAR
			FOTLAND
③	January 22, 1980		WELL FILE 214-9

R. P. S. BURTON
 W. P. S. BURTON

INTER-OFFICE CORRESPONDENCE / SUBJECT:
 BARTLESVILLE, OKLAHOMA

Palynostratigraphy, Albuskjell
 2/4-9X, Norwegian North Sea

J. P. S. Burton
 Stavanger Office
 BNOR-574

Thirty-two ditch-cuttings samples (90', 60' and 30' composites) from the interval 9310'-11510' in the Albuskjell 2/4-9X were examined for palynological age determinations.

Palynological recovery from the interval 9310'-10540' is very good to adequate. In the underlying sequence (10540'-11150'), only one sample proved palynologically productive.

A synthesis of the results is as follows:

- 9310'-9670' Middle Eocene
- 9670'-9850' Early Eocene
- 9850'-9940' Early Eocene-Late Palaeocene
- 9940'-10450' Late Palaeocene
- 10450'-10540' Early Palaeocene (Late Danian)
- 10540'-11330' barren, age indeterminate
- 11330'-11360' Early Maastrichtian
- 11360'-11510' barren, age indeterminate

The interval 9310' to 9670' yields rich dinoflagellate assemblages containing several species indicative of a Middle Eocene age (Homotryblum oceanicum zone).

The presence of Homotryblum pallidum at 9670'-9760' suggests Early Eocene. The underlying sample (9760'-9850') yields a characteristic late Early Eocene dinoflagellate assemblage (Wetzeliella pachyderma zone).

The sample from 9850'-9940' yields mixed Early Eocene and uppermost Late Palaeocene elements; this interval probably includes the Eocene/Palaeocene boundary.

The late Palaeocene Apectodinium hyperacanthum zone is first recorded from 9940'-10030'; the Deflandrea speciosa zone (also Late Palaeocene) is first located at 10120'-10210'.

Danian dinoflagellate markers (including Cordosphaeridium inodes longipes) first occur at 10450'-10540'. The assemblage recovered from this sample suggests the Late Danian Hafniasphaera cryptovesiculata zone.

The samples prepared from the interval 10540' to 11330 are barren of palynomorphs.

The presence of Kalyptea aceras (sensu Wilson) and Trichodinium castanea at 11330'-11360' indicates Early Maastrichtian.

The remainder of the section examined (11360' to 11510') is barren of palynomorphs.



Lucy I. Costa

Approved


D. W. Dalrymple
H. A. Kuehnert

LIC:pa

cc: D. Morris
C. D. Wilkinson
J. R. Davis
J. Keany