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 2. Engleton o.k
 3. 2/7-12 well file
 4. 2/7-13 well file
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P. S. BURTON

July 23, 1979

INTER-OFFICE CORRESPONDENCE / SUBJECT:
BARTLESVILLE, OKLAHOMA

Transmittal of Report, Gamma-2/7-12
and 2/7-13 Wells, Norway, North Sea

J. P. S. Burton
Stavanger Office

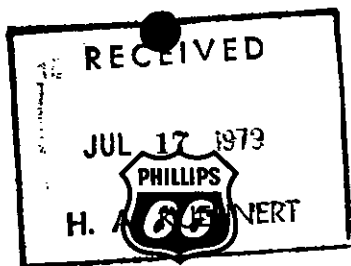
Enclosed herewith please find a report by John Keany on the nanno-fossil age dating of the subject wells.

Please note that K. Lyons has advised us that at least part of the section drilled in the 2/7-13 well consisted of steeply dipping strata; thus, thickness estimations based on measured depths - as in the present report - must be corrected for this dip. In particular, the 750' thickness for the Maastrichtian mentioned by Keany will have a true thickness considerably less than 750 feet.

H. A. Kuehnert
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HAK:DWD:kp

cc: w/attach.
C. D. Wilkinson
D. A. Morris
J. R. Davis
J. Keany



July 11, 1979

INTER-OFFICE CORRESPONDENCE / SUBJECT:
BARTLESVILLE, OKLAHOMA

Calcareous Nannofossil Biostratigraphy
for the Gamma 2/7-12 and 2/7-13 Wells
Kea-011-79

Mr. H. A. Kuehnert
246 FPB

Suites of fifty sidewall cores from the 2/7-12 well and forty-five sidewall cores from the 2/7-13 well on the Gamma structure were examined for calcareous nannofossil distributions. The 2/7-12 well, located on the structural crest, penetrated salt at 5535 ft. without any indication of chalk. A majority of the shale samples from this well were barren of calcareous nannofossils, although a few isolated samples yielded poorly preserved assemblages which allowed only tentative dating. The shales were better suited for palynology and a detailed palynostratigraphy for the well was produced for the Task Force by L. Costa. Micropaleontological results are as follows:

- 4800 Ft. - Upper Middle Miocene
- 4832-5335 Ft. - Miocene
- 5402 Ft. - Lower Miocene. (This determination was based on a very poorly preserved nannofossil assemblage. Palynology suggests the interval is Eocene.)
- 5430-5500 Ft. - Barren of Nannofossils
- 5505 Ft. - Salt
- 5510 Ft. - Barren Shale
- 5535-5720 Ft. - Salt

The 2/7-13 well, on the eastern flank of the Gamma structure, did penetrate chalk and provided adequate samples for calcareous nannofossil determinations.

- 8,908-9,176 Ft. - Danian - Zone A
- 9,176-9,924 Ft. - Maastrichtian - Zone B
- 9,972-10,065 Ft. - Campanian-Santonian - Zone C
- 10,065-10,284 Ft. - Santonian-Turonian - Zone D
- 10,333-10,640 Ft. - Turonian-Cenomanian - Zone E
- 10,734-11,050 Ft. - Albian - Zone F
- 11,070 Ft. - Shale - Barren of Nannofossils

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Although there are obviously no correlations possible between these two Gamma wells, the chalk section from the 2/7-13 well will be incorporated into future regional studies of the Ekofisk Task Force. Of particular interest is the relatively thick Maastrichtian section (approximately 750') which is comparable to those found in the Ekofisk field and approximately twice as thick as those on eastern flank of the Eldfisk field. Additional wells from the Edda and Eldfisk fields and from the flank of the Valhall structure will be examined in order to construct a regional cross-section for the chalk sequence.

John Keany
John Keany

JK:kks

cc: R&D Records - RC
B. M. Thompson
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