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#7

May 6, 1980

TO: Husky/U. S. Geological Survey

RE: Husky/U.S.G.S.
Seabee #1
Sec. 5, 1S/1W, U.B.M.
North Slope, Alaska

PALYNOLOGY REPORT

A total of 236 samples were processed and analyzed from the subject well. The total consists of 174 ditch cuttings composited mostly into 90' intervals, 61 core samples, and 1 auger sample. The total section examined ranges from 43-15,610' T.D.

Included with this report are Figures 1 and 2 which illustrate the distribution of the ditch samples and the auger and core samples, respectively. A summary of the findings is given below.

43-2370'

Undifferentiated bisaccates (C-A), Araucariacites australis (R), Cicatricosisporites hallei (R), Deltoidospora spp. (R-F), Gleicheniidites senonicus (R-C), Stereisporites spp. (R-F), Taxodiaceae (R-F).

Aptea polymorpha (R-F), Apteodinium reticulatum (R), Batio-ladinium jaegeri (R), Cleistosphaeridium spp. (R),

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43-2370' (con't.)

Cribopteridinium edwardsi (R-F), Cyclonephelium distinctum (R), Genus "W" (R), Luxadinium propatulum (R), Muderongia asymmetrica (R), Odontochitina operculata (R-C), Oligosphaeridium complex (R-C), Palaeopteridinium cretaceum (R-F), Pseudoceratium expositum (R), Spinidinium vestitum (R), Spiniferites ramosus (R).

AGE: Middle to Late Albian (P-M17)

ENVIRONMENT: Marine to Marginal Marine

The P-M17 zonule is defined near the top of this interval by Muderongia asymmetrica and at the base by the last occurrence of Genus "W". Luxadinium propatulum and Spinidinium vestitum are also restricted to this interval.

2370-13,230'

Undifferentiated bisaccates (R-A), Araucariacites australis (R-F), Callialasporites dampieri (R), Cerebropollenites mesozoicus (R), Cyathidites australis (R), Deltoidospora spp. (R), Gleicheniidites senonicus (R), Lycopodiumsporites (R), Osmundacidites spp. (R).

Aptea polymorpha (R), Batioladinium jaegeri (R), Cleistosphaeridium spp. (R), Cribopteridinium edwardsi (R), Cyclonephelium distinctum (R), Gardodinium trabeculosum (R), Odontochitina operculata (R-F), Oligosphaeridium complex (R-F), O. c. (thick wall) (R), Palaeopteridinium cretaceum (R-F), Pseudoceratium retusum (R), Spiniferites ramosus (R).

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2370-13,230' (con't.)

AGE: Aptian to Early Albian (P-M18)

ENVIRONMENT: Marine to Marginal Marine

As previously mentioned for the interval above, the top of the P-M18 zonule is here defined by the base of Genus "W". In the lower portion of this interval, palynomorph recovery was reduced along with several barren samples recorded.

13,230-13,500'

Apiculatisporis sp. (R), Classopollis classoides (R), Exesipollenites tumulus (R), Osmundacidites spp. (R), Stereisporites spp. (R).

Gardodinium trabeculosum (R-F), Indeterminate cysts (R).

AGE: Probable Neocomian (P-M18a)

ENVIRONMENT: Marine to Marginal Marine

The P-M18a zonule is only weakly suggested by frequent occurrences of Gardodinium trabeculosum after a long interval of barren or nearly barren samples.

13,500-15,610'

Undifferentiated bisaccates (R-A), Araucariacites australis (R-F), Callialasporites dampieri (R), Cicatricosisporites australiensis (R), Classopollis classoides (R-F), Deltoidospora spp. (R-C), Exesipollenites tumulus (R-C), Gleicheniidites senonicus (R), Lycopodiumsporites spp. (R), Stereisporites spp. (R), Vitreisporites pallidus (R).

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13,500-15,610' (con't.)

Canningia colliveri (R), Canningia sp. (R), Cleistosphaeridium spp. (R), Gardodinium trabeculosum (R), Gonyaulacysta sp. (R), Lithodinia sp. (R).

AGE: Late Jurassic to Neocomian
(undifferentiated)

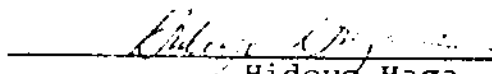
ENVIRONMENT: Marginal Marine

Based on taxa found, the interval listed above must be expanded from Late Jurassic to Neocomian in age. Occurrences of Cicatricosisporites australiensis near the bottom of the well (15,460-15,580') and in Core #7 (14,595') indicate an age no older than Late Jurassic, and probably younger.

Interpreted by:


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