

ANDERSON, WARREN & ASSOCIATES, INC.

CONSULTING MICROPALAEONTOLOGY

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Copy 7

May 10, 1977

see also: S.W. cores (1978)

TO: Tetra Tech, Inc.

RE: Husky/U.S.N.
W. T. Foran #1
Sec. 13, 17N/2W
North Slope, Alaska

PALYNOLOGY REPORT

A total of 93 ditch and two (2) sidewall core samples were processed and analyzed for palynological age determinations. The ditch samples consisted of 90 foot composites taken from the interval 500 feet to the total depth of 8864 feet.

500-590'

Betulaceae (F), Alnus (F), Juglans (R), Carya (R), Onagraceae (R), Tilia (R), Momipites (R).

Wetzeliella articulata (single), Odontochitina operculata (single, reworked).

AGE: Probable Eocene

ENVIRONMENT: Marine

590-1490'

Betulaceae (F), Paraalnipollenites confusus (R-F).

Rare, scattered, reworked Cretaceous dinocysts: Broomea jaegeri, Australiella cooksoni, A. granulifera, and Oligosphaeridium complex.

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590-1490' (con't.)

AGE: Paleocene

ENVIRONMENT: Nonmarine

1490-1850'

Aquilapollenites magnus (R), A. quadricretae (R), Wodehousia jacutense (R), Cranwellia striata (R).

Deflandrea biapertura (R-F).

AGE: Maestrichtian

ENVIRONMENT: Marginal Marine

1850-2120'

Taxodiaceae (A), Aquilapollenites trialatus (single specimen at top of interval).

Odontochitina operculata (C), Australiella cooksoni (R), A. granulifera (R-C), A. spectabilis (F-A), Deflandrea amphiatata (R-F), D. ditissima (R-C), Hystrichosphaeridium difficile (F-C), Hexagonifera chlamydata (R-C), Palaeoperidinium basilium (R-F).

AGE: Santonian-Campanian

ENVIRONMENT: Marine

2120-3020'

Osmundacidites sp. (R), Gleicheniidites senonicus (R-F).

Odontochitina operculata (R-F), Cribroperidinium edwardsi (R-F), Gonyaulacysta cf. tenuiceras (R),

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2120-3020' (con't.)

Nelsoniella aceras (F, at top of interval), Silicisphaera ferox (R). Australiella/Deflandrea spp. appear less consistent and less frequent than above.

AGE: Probable ?Turonian-?Coniacian
 ENVIRONMENT: Marine to Marginal Marine

3020-4010'

Odontochitina operculata (F-C), Cyclonephelium membrani-
 phorum/compactum (C), Cribroperidinium edwardsi (F-C),
 Pseudoceratium cf. dettmannae (C at 3110-3200'), P. cf.
 expositum (R, sporadic).

AGE: Cenomanian
 ENVIRONMENT: Marine

4010-5800'

Osmundacidites sp. (R-F), Gleicheniidites senonicus (R-F),
 Trilobosporites apiverrucatus (R, scattered).

Odontochitina operculata (R-C), Cyclonephelium distinctum
 (R-F), C. membraniphorum/compactum (R-C), Cribroperidinium
 edwardsi (R-C), Hystrichodinium pulchrum (R), Pseudocera-
 tium spp. (R), Astrocysta cretacea (F), Luxadinium propa-
 tulum (R), Spinidinium vestitum (R, sporadic), Oligosphaeri-
 dium complex (R-F).

AGE: Albian
 ENVIRONMENT: Marine

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5800-7330'

Osmundacidites sp. (R), Gleicheniidites senonicus (R-F),
Callialasporites trilobatus (R, sporadic).

Odontochitina operculata (R-F), Cribroperidinium edwardsi
(R-F), Astrocysta cretacea (R-F), Oligosphaeridium complex
(R-F).

AGE: Aptian-Early Albian

ENVIRONMENT: Marine to Marginal Marine

Based principally on the absence of Luxadinium propatulum
and Spinidinium vestitum, this interval is assigned an
Aptian to Early Albian age.

The interval below approximately 6600 feet reflects rela-
tively poor marine conditions.

7330-7551'

Odontochitina operculata (R-C), O. sp. 1 (R), Broomea jaegeri
(R), Oligosphaeridium complex (A), Gardodinium eisenacki (F),
Astrocysta cretacea (F), Canningia colliveri (R), Cyclonephe-
lium distinctum (R), Muderongia simplex (F), Pareodinia
ceratophora (R).

AGE: Neocomian

ENVIRONMENT: Marine

7551-7610'

The sidewall core at 7551 feet contained Vitreisporites
pallidus (R), and Micrhystridium spp. (F).

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7551-7610' (con't.)

AGE: Indeterminate
ENVIRONMENT: Very Marginal Marine

7610-8240'

Taeniaesporites sp. (R-F), Striatites richteri (F-C),
Lueckisporites sp. (R, sporadic); rare occurrences near
base of interval: Kraeselisporites spinosus, Klausipol-
lenites staplini, ?Lundbladisporea sp.

Micrhystridium spp. (A).

AGE: Permian-Triassic
ENVIRONMENT: Very Marginal Marine to Nonmarine

8240-8510'

No indigenous palynomorphs.

AGE: Indeterminate
ENVIRONMENT: Indeterminate

8510-8780'

A single specimen of Tripartites vetustus was recovered at
the top of this interval. If this specimen is not re-
worked, it indicates the presence of Mississippian strata.

AGE: Probable Mississippian
ENVIRONMENT: No evidence of Marine

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8780-8864' T.D.

No indigenous palynomorphs. Mainly black organic fragments. Poor recoveries.

AGE: Indeterminate

ENVIRONMENT: Indeterminate

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Hideyo Haga