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May 16, 1977

see also: S.W. cores (1978)

TO: Tetra Tech, Inc.

RE: Husky/U.S.N.  
West Fish Creek #1  
Sec. 11, 11N/1W  
North Slope, Alaska

PALYNOLOGY REPORT

A total of 122 samples were processed and examined for palynological age determinations. The samples were ditch composites of 90-foot intervals except near the Jurassic/Cretaceous boundary where 30-foot samples were examined. The total interval studied was from 500 feet down to the total depth of 11,420 feet.

500-770'

Australiella spectabilis (C), A. sverdrupiana (R-C), A. granulifera (R-F), Diconodinium arcticum (R), Odontochitina operculata (F-C), Hexagonifera chlamydata (R), Palaeoperidinium basilium (R), Deflandrea ditissima (F).

AGE: Late Cretaceous (Santonian-Campanian)  
ENVIRONMENT: Marine

770-1670'

Gleicheniidites senonicus (R-F), Vitreisporites pallidus (R-F).

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770-1670' (con't.)

Australiella/Deflandrea spp. (R), Palaeoperidinium basilum (R-F), Odontochitina operculata (R), Cyclonephelium distinctum (R), Cribroperidinium edwardsi (R).

AGE: Late Cretaceous (?Turonian-  
?Coniacian)

ENVIRONMENT: Nonmarine to Marginal Marine

1670-2840'

Gleicheniidites senonicus (R-F), Vitreisporites pallidus (R).

Palaeoperidinium basilum (R-C), Odontochitina operculata (R-C), Oligosphaeridium complex (R), Cyclonephelium distinctum (R), Cribroperidinium edwardsi (R-F), Broomea jaegeri (R, scattered), Pseudoceratium cf. dettmannae (R, near top of interval).

AGE: Late Cretaceous (Cenomanian)

ENVIRONMENT: Marine to Marginal Marine below  
approximately 2400 feet

2840-4420'

Gleicheniidites senonicus (R), Classopollis classoides (R), Trilobosporites apiverrucatus (R, scattered); reworked Triassic grains (R, scattered).

Odontochitina operculata (R-F), Oligosphaeridium complex (R-F), Cyclonephelium distinctum (R), Cribroperidinium edwardsi (R), Broomea jaegeri (R), Astrocysta cretacea (F-C).

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2840-4420' (con't.)

Luxadinium propatulum (R-F), Spinidium vestitum (R),  
Herendeenia pisciformis (reworked, R, scattered).

AGE: Early Cretaceous (Albian)

ENVIRONMENT: Marine

4420-7260'

Classopollis classoides (R), Densosporos (R, reworked).

Odontochitina operculata (R-F), Oligosphaeridium complex  
(R), Cyclonephelium distinctum (R), C. compactum/membrani-  
phorum (R), Broomea jaegeri (R-F), Astrocysta cretacea  
(R-F), Gardodinium eisenacki (R); scattered specimens of  
reworked Jurassic and Triassic dinocysts.

AGE: Early Cretaceous (Aptian-Early Albian)

ENVIRONMENT: Marine

This interval is characterized by the absence of Luxadinium  
and Spinidium as well as the consistent occurrence of  
Gardodinium eisenacki. As observed in other wells of the  
region, this interval may range as young as Early Albian  
and as old as Aptian in age.

7260-7290'

Oligosphaeridium complex (C), Cyclonephelium distinctum (R),  
Astrocysta cretacea (R), Gardodinium eisenacki (A).

AGE: Early Cretaceous (Neocomian)

ENVIRONMENT: Marine

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7290-7860'

*Classopollis classoides* (F), *Cerebropollenites mesozoicus* (R).

*Sirmiodinium grossi* (R), *Psaligonyaulax apatela* (R), *Gonyaulacysta jurassica* (R), *G. cladophora* (R), *Endoscrinium galeritum* (R-F).

AGE: Late Jurassic (Kimmeridgian)

ENVIRONMENT: Marine

The presence of *Endoscrinium galeritum* below 7680 feet indicates that the lower one-third of this interval may be assigned an Early Kimmeridgian age.

7860-8940'

*Classopollis classoides* (R-F), striated bisaccates (R, reworked).

*Pareodinia ceratophora* (R), *P. cf. verrucosum* (R-F), *Sirmiodinium grossi* (R-F), *Gonyaulacysta cladophora* (F-C), *Endoscrinium galeritum* (R-F), *Nannoceratopsis pellucida* (F-C).

AGE: Late Jurassic (Oxfordian)

ENVIRONMENT: Marine

8940-9210'

Striated bisaccates (R, reworked).

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8940-9210' (con't.)

Nannoceratopsis gracilis (R), N. pellucida (R-F); undescribed microplankton cysts JRD-1, JRD-2, JRD-3 (R).

AGE: Early-Middle Jurassic (Late Pliensbachian-Callovian)

ENVIRONMENT: Marine

9210-9480'

Essentially barren of palynomorphs.

AGE: Indeterminate

ENVIRONMENT: Indeterminate

9480-10,470'

Undifferentiated striate bisaccates (R-F), Taeniaesporites sp. (R-F), Striatites richteri (R), Lueckisporites sp. (R), Klausipollenites staplinii (R), Krauselisporites spinosus (R), ?Lundbladisporea sp. (R), verrucate spores (F).

AGE: Permian-Triassic

ENVIRONMENT: Nonmarine

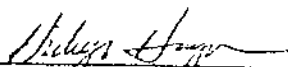
10,470-11,420' T.D.

No indigenous palynomorphs.

AGE: Indeterminate

ENVIRONMENT: Indeterminate

ANDERSON, WARREN & ASSOCIATES, INC.

  
Hideyo Haga