

ANDERSON, WARREN & ASSOCIATES, INC.

CONSULTING MICROPALAEONTOLOGY

11526 Sorrento Valley Road Suite G

San Diego, California 92121

(714) 755-1524

Cable: Micropaleo San Diego

#15

March 26, 1980

TO: Husky/U.S.G.S.

RE: Husky/USGS, NPRA
Ikpikpuk #1
Sec. 25, 13N/19W, U.B.M.
North Slope, Alaska

ADDENDUM TO FORAMINIFERA REPORT

The following micropaleontological report is based on the examination and checklisting of 44 thin sectioned ditch samples, and 8 thin sectioned conventional core samples covering the interval 14,210 to 15,480 feet. Two checklists and a faunal distribution log are enclosed for your convenience.

Standard techniques were employed in processing the material. All samples were boiled in Quaternary-O and washed over 20 and 200 mesh screens.

Frequency symbols used in this report correspond to the following numerical values: R = rare (1-5); F = frequent (6-32); C = common (33-99); A = abundant (100-199); and FL = flood (200+).

14,210-14,850'

This interval is similar to the overlying basal unit of the earlier report and so the top of the Lower Limy Unit lies at 14,000 feet. Occurrences of Neoarchaediscus incertus,

RE: Husky/USGS - Ikpikpuk #1 (addendum), North Slope

14,210-14,850' (con't.)

Archaediscus chernousovensis, A. krestovnikovi, Asphaltina sp., and frequent to common coral wall debris suggest that these packstones are probably Zone 14 to Zone 16 in age. These carbonates represent a low energy shoaling shelf environment.

AGE: Late Mississippian

ENVIRONMENT: Shoaling Shelf (Low Energy Conditions)

14,850-15,480' T.D.

This unit is picked primarily on the basis of a lithologic change to red shales and siltstones at 14,850 feet. Faunas occurring down to at least 15,020 feet, and possibly as low as 15,200 feet suggest that the strata are still of Late Mississippian (Zone 14 to Zone 16) age down to 15,200 feet. The abundance of quartzite and coal below 15,310 feet is suggestive of the Kekiktuk Fm. Argillitic shale found in samples below 15,400 feet appears to represent stringers within the Kekiktuk Fm. quartzites, but in some places the "Argillite" basement may be no more than an argillitic shale and this possibility should be considered.

AGE: Late Mississippian (14,850-15,200')
Probable Mississippian (15,200-15,480')

ENVIRONMENT: Nonmarine to Inner Neritic
(14,850-15,200')
Indeterminate (15,200-15,480')

Interpreted by: ANDERSON, WARREN & ASSOCIATES, INC.

Michael B. Mickey
M. B. Mickey

Richard E. Anderson
Richard E. Anderson