

CONSULTING MICROPALAEONTOLOGY

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Cable: Micropaleo San Diego

June 17, 1975

TO: Tetra Tech, Inc.

RE: U.S.N. NPR-4  
Iko Bay #1  
16, 21N/16W  
North Slope, Alaska

FINAL MICROPALAEONTOLOGICAL REPORT

The following final micropaleontological report is based on the examination and checklisting of seventy (70) ditch samples, fourteen (14) sidewall core samples, and nine (9) conventional core samples covering the interval 180 feet to 2683 feet. Enclosed you will also find a 1" to 100' faunal distribution log, a faunal checklist and a sketched correlation chart comparing this well with the South Barrow #12 Well. Below is a generalized age summary of the Iko Bay #1 Well.

180-1460'

This interval is characterized by a Verneulinoides borealis Zone fauna. The highest occurrence of Textularia topogorukensis at 540 feet may indicate that we are in the Torok Formation at this point, and at the top of the Textularia topogorukensis Subzone of the Verneulinoides borealis Zone. The faunas characterizing this interval are predominantly shallow (middle to inner shelf), turbid, arenaceous faunas with occasional tongues of clearer water, calcareous faunas of probable equivalent shelf depths.

AGE: Aptian to Albian

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1460-1850'

This interval is characterized by faunas suggestive of the Gaudryina tailleuri Zone, but some of the species range as old as Late Jurassic. The top of the Jurassic may be as high as 1670 feet but the exact top is hard to place since the contact appears to be transitional. Faunas in this interval seem to suggest deposition in varying conditions. Depths were generally inner to middle shelf with overall turbid water conditions, and a few short pulses of relatively clearer water. The bottom conditions appear to have been reducing in nature for considerable periods of time allowing for the accumulation of pyrite, and the depauperate faunas in the lower half of this interval.

AGE: Late Jurassic to Neocomian

1850-2000'

This interval contains a definite Jurassic arenaceous assemblage. It lacks any good evidence for Early Jurassic although this may be due to environmental conditions (i.e. too much turbidity), thus it is considered to be undifferentiated Jurassic age.

AGE: Jurassic (Undifferentiated)

2000-2448'

This interval is dominated by more diverse clearer water shelf faunas. There is a large influx of reported Early Jurassic calcareous forms at the top of this interval. Some rare specimens of Pentacrinus subangularis alaska were recovered from a core between 2410 feet and 2433 feet. This subspecies indicates an Early Jurassic age for the strata at this level.

AGE: Early Jurassic

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2448-2683'

There is only rare foraminiferal evidence to indicate a Triassic age in this well. This is probably due to poor preservation and a lack of any substantial clear water marine intervals. The top of the Shublik Formation is placed at 2540 feet on the basis of lithology, while the first faunal indications for a Triassic age occur up at 2448 feet.

AGE: Triassic

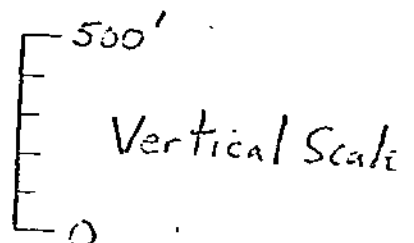
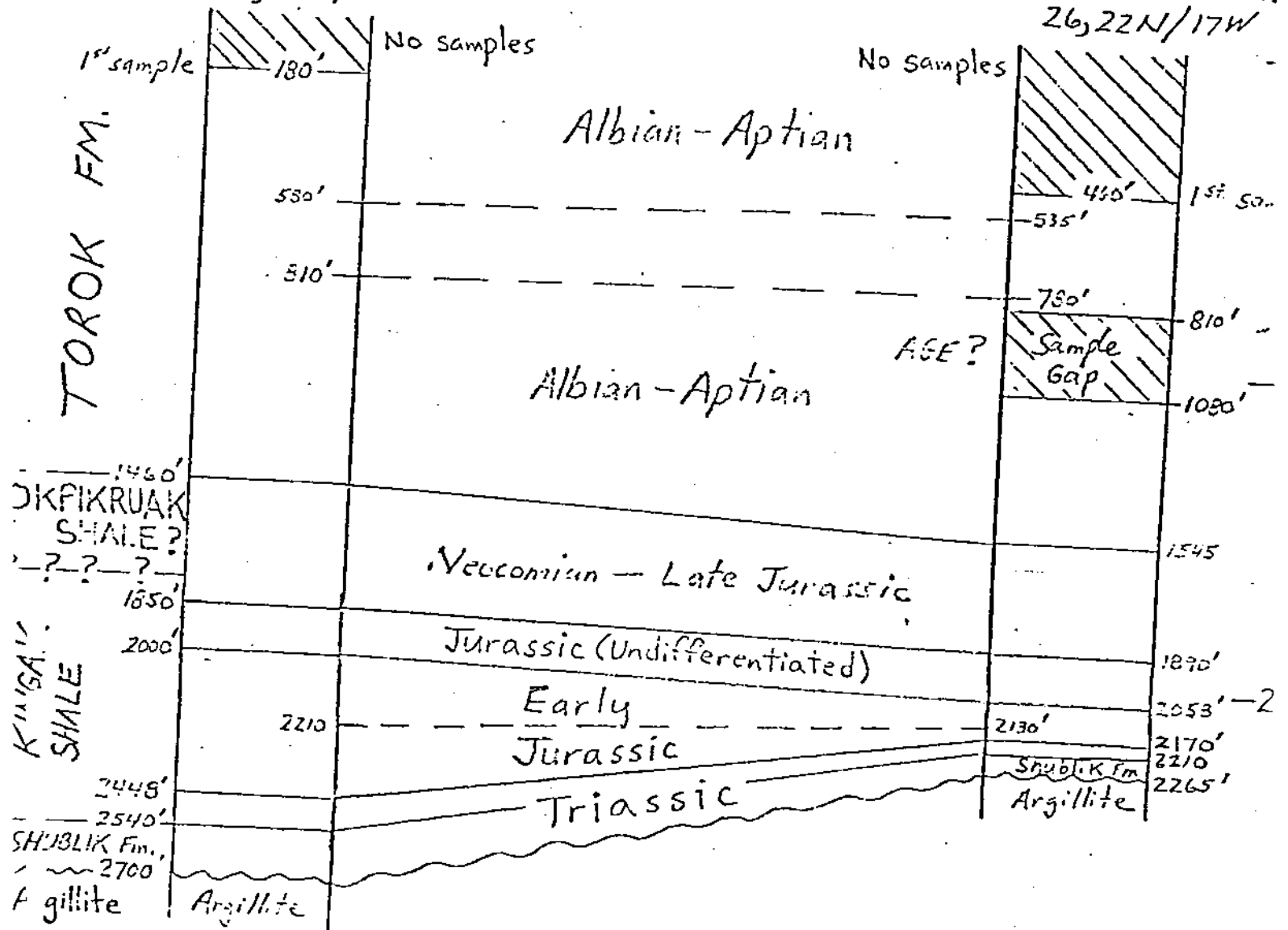
ANDERSON, WILCOXON & ASSOCIATES, INC.



Richard E. Anderson

U.S. Navy  
IKOBAY #1  
16, 21N/16W

U.S. Navy  
S. BARROW #1  
26, 22N/17W



No Horizontal Scale

A.W.A.  
6/17/75