Amoco Production Company

Surface Log

Name DEACON ROCK WEST SECTION (= DW)

COUNTY Porcupine Ev. Area **STATE** Alaska

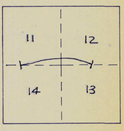
LOCATION °N °W Sec. 11 TWN 25N RNG 21E

MEASURED BY DeKeyser, Taylor, Hankinson **DATE** 7-21-72

INTERVAL

REMARKS 1. Section measured along N bank of Porcupine River beginning at Deacon Rock and proceeding W, up-section

2. Distances represent only positions along shoreline and not actual rock thicknesses (reduce all thicknesses by 1/2 for dip).



Samples 8351 and 8352 about 1000' west of 8790, at sta 65

Light gray, sandy, dolomitic ls.

DW 8790L — Light gray, sandy, dolomitic ls., partly brecciated

Very light gray, sandy, dolomitic ls.

DW 8789L — Very light gray, sandy, dolomitic ls.

Light gray, sandy, dolomitic ls., with strange mottled appearance in several beds

DW 8788 F,L — Light gray, sandy, dolomitic ls., locally brecciated

DW 8787 L — Light gray, slightly dolomitic micrite

Light gray micrite, laminar fenestrae, stylolites, probable stromatolites; very slightly dolomitic

Light gray, stromatolitic and laminar fenestrate micrite with beds of oolitically-coated pellets; indicates very shallow sub-tidal to supratidal with probable restricted circulation, based on absence of normal marine fauna.

subtidal

Indef. DW 8786 ●,L — Stromatolites, oolites (may correlate with section at Oolite Creek).

Light gray micrite

DW 8785 L — Brecciated, clasts of light gray, stromatolitic ls. in light brown, dolomitic matriz

DW 8784 L — Medium gray, sandy, dolomitic ls.
Light gmy, slightly dolomitic micrite with laminar fenestrae

DW 8783 ●,L — Light gray, slightly dolomitic micrite with abund't. stylolites and possible laminar fenestrae, fecal pellets

Light gray, slightly dolomitic micrite, weathering gray with light brn mottli

DW 8782 L — Possible algal stromatolites, light gry with tan banding (Polaroid DW-1)

Supratida

Possible algal stromatolites, light gray with tan banding (Polaroid DW-1)

Indef. DW8781 ●,L — Stromatolites

Prob.Ord. DW8780 Oil (?) — Fluid sample from possible seep; oily film seen on water and gas bubbles rising to surface of water nearby. Intensely brecciated zone, with clasts of slightly dolomitic micrite similar to some observed in DR section upstream

Lgt.gry to tan, lgt brn-weathering, med-crystalline dolomite (Deacon Rock)

DW 8779 L