

A-DIAGNOSTIC MINERALS

Mineral zone	Rounded luminae	Prismatic	Epitaxial	Augite	Zoned zircon	Elongated zircon	Botryoidal hornblende	Augite	Fractured garnet	Fractured garnet	Rounded
Pattern key	Not shown on section	Not shown on section	Not shown on section	Not shown on section	Not shown on section	Not shown on section	Not shown on section	Not shown on section	Not shown on section	Not shown on section	Not shown on section
Endite/zoisite	0-70%	0-40%	0-40%								
Horblende	0-30%	0-30%	0-30%								
Tourmaline	0-20%	0-20%	0-20%								
Zircon	0-20%	0-20%	0-20%								
Garnet	0-20%	0-20%	0-20%								
Andalusite	0-20%	0-20%	0-20%								
Kyanite	0-20%	0-20%	0-20%								
Chloritoid	0-20%	0-20%	0-20%								
Formation	Shublik	Kincaid	Opikavuk	Torok	Tuina member	Topogruk member	Sabine member	Tuina member	Sentinel Hill member	Saganavikok	Gubik
Age	Shublik	Jurassic									

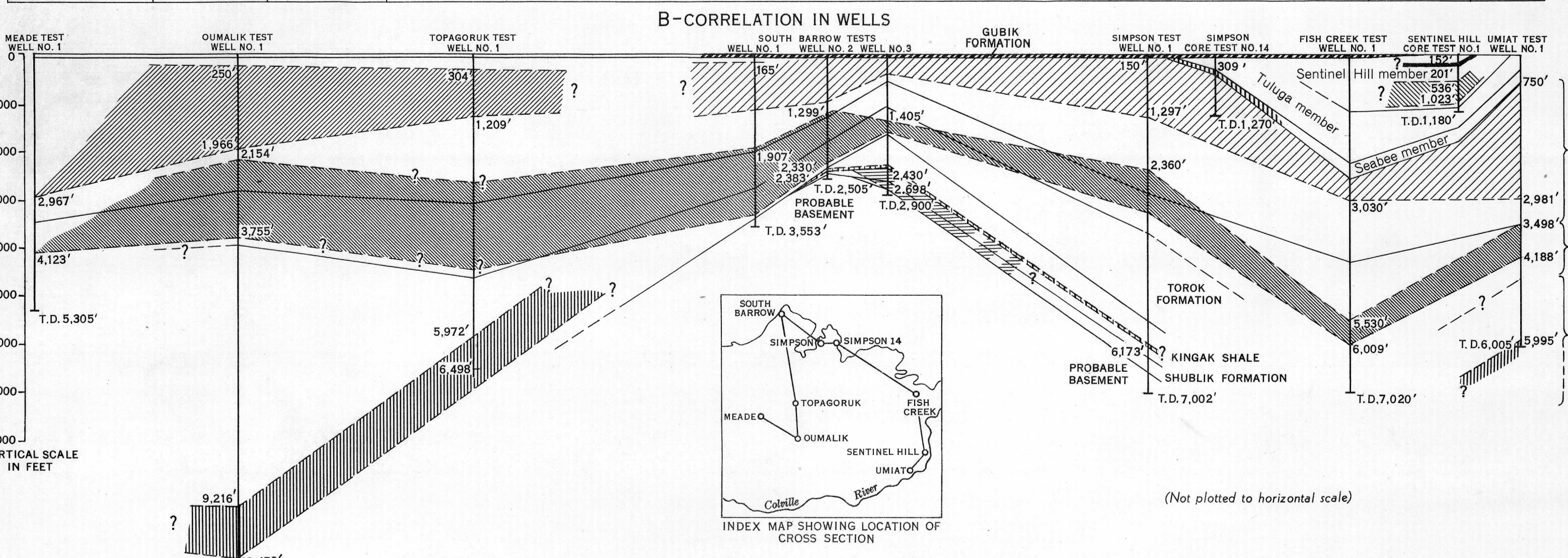


FIGURE 19.—STRATIGRAPHIC RELATIONSHIPS OF HEAVY-MINERAL ZONES

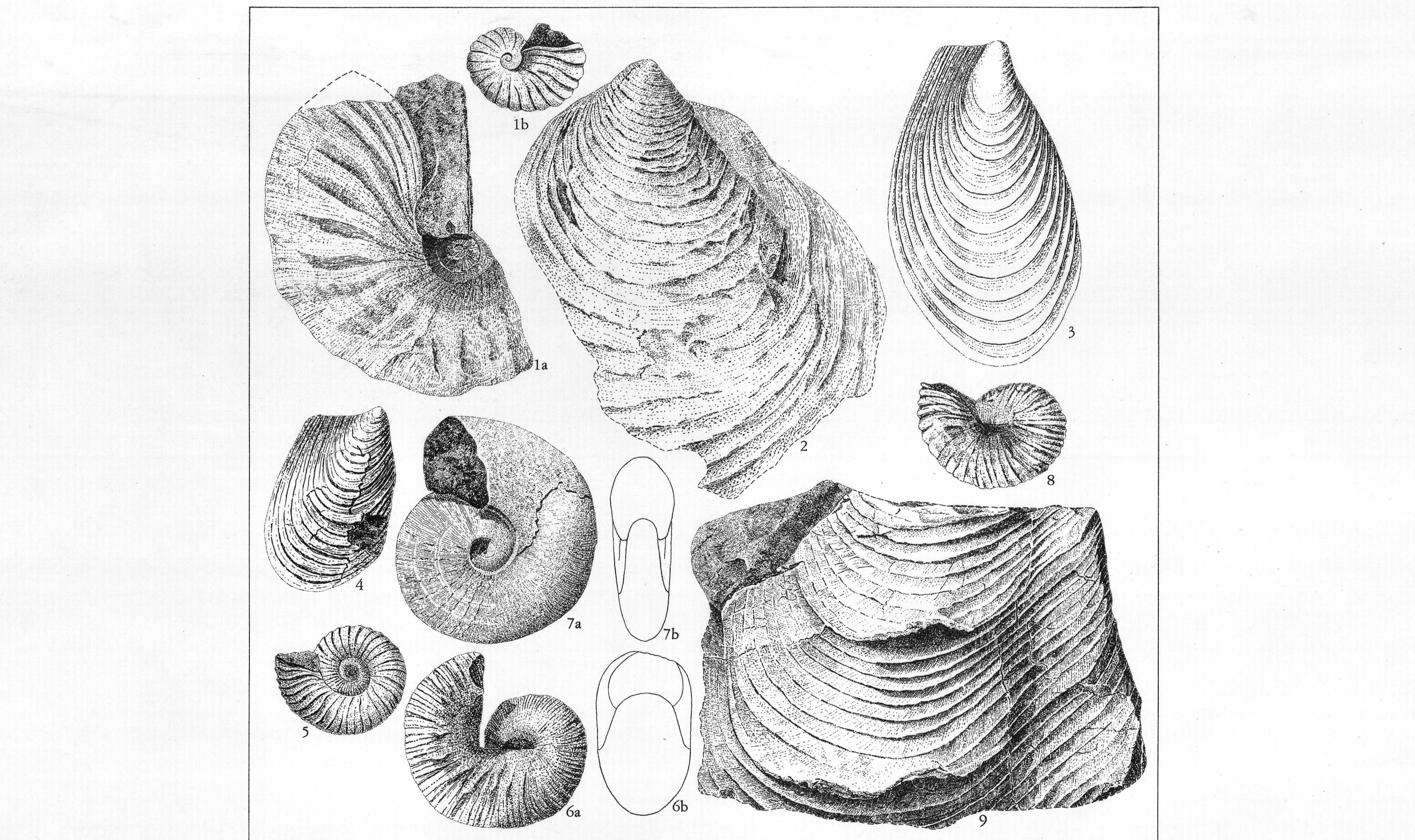


FIGURE 20.—CRETACEOUS INDEX FOSSILS OF NORTHERN ALASKA

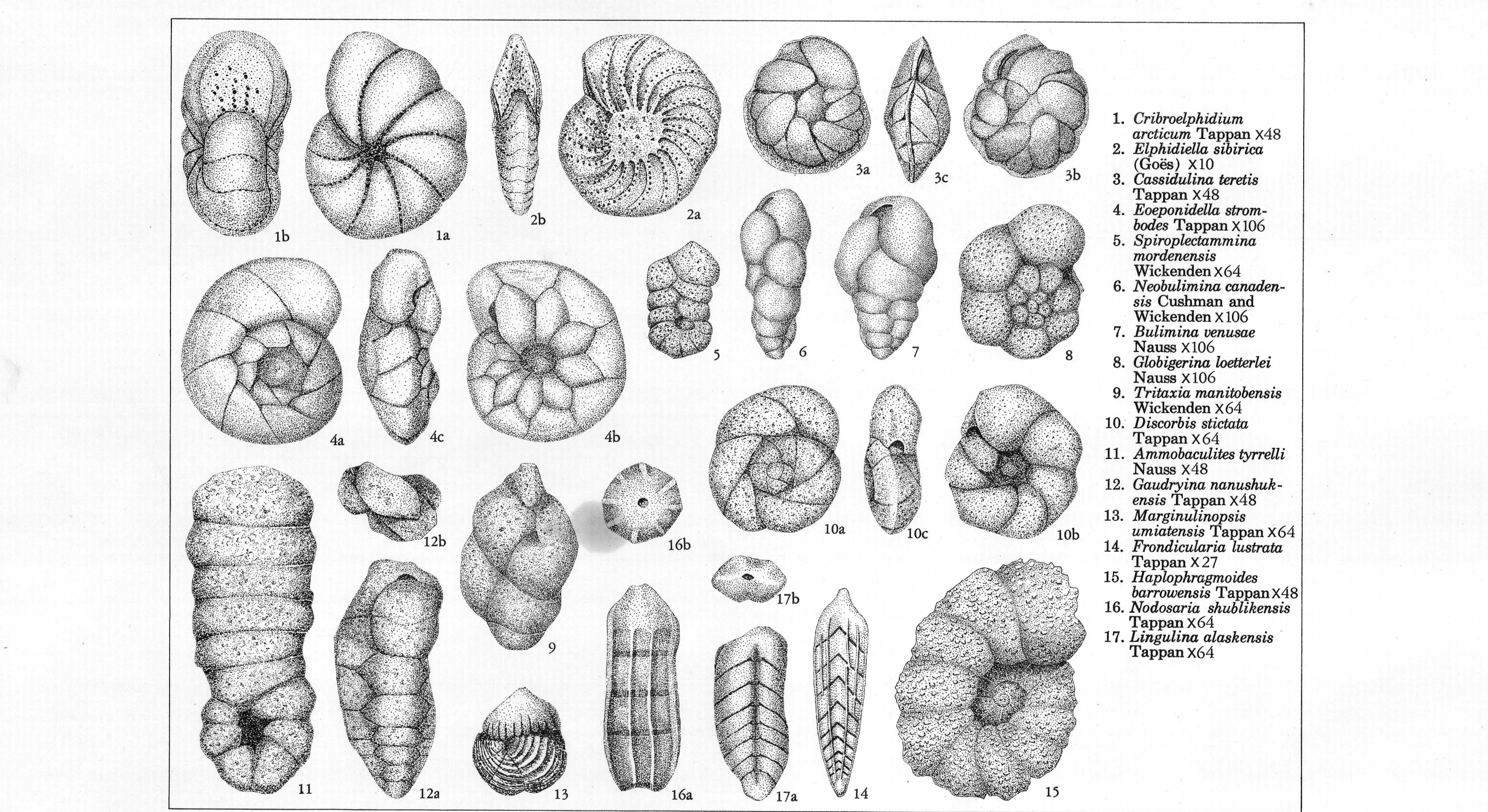


FIGURE 21.—INDEX FORAMINIFERA OF NORTHERN ALASKA

INTRODUCTION

The geologic history of the northern Alaska region was originally described by Jeffreys (1914) and was referred to the Pennsylvania. In the early 1930's, the geologic history of the northern Alaska region was described by Jeffreys and others. The geologic history of the northern Alaska region was described by Jeffreys and others. The geologic history of the northern Alaska region was described by Jeffreys and others.

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