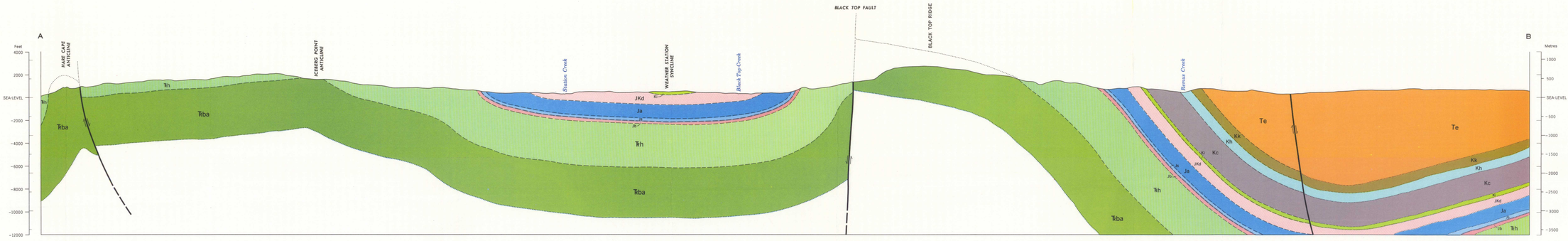
GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES



LEGEND

SEDIMENTARY ROCKS

CENOZOIC

QUATERNARY

Q — *Stream, deltaic, glacial and marine beach sediments (mapped only where underlying bedrock geology cannot be inferred with reasonable certainty)*

TERTIARY

Te — *EUREKA SOUND FORMATION: sandstone, siltstone, conglomerate, shale, minor coal (±8,000')*

MESOZOIC

CRETACEOUS
UPPER CRETACEOUS

Kk — *KANGUK FORMATION: dark coloured shale, minor sandstone, siltstone and mudstone (740')*

Kh — *HASSEL FORMATION: sandstone, minor siltstone and shale (800')*

LOWER CRETACEOUS

Kc — *CHRISTOPHER FORMATION: dark coloured shale, minor siltstone, sandstone, and mudstone (2,200')*

Ki — *ISACHSEN FORMATION: sandstone, minor shale, siltstone and conglomerate (250')*

JURASSIC AND CRETACEOUS
UPPER JURASSIC AND LOWER CRETACEOUS

JKd — *DEER BAY FORMATION: dark coloured shale, minor siltstone, sandstone and mudstone (900')*

JURASSIC
UPPER JURASSIC

Ja — *AWINGAK FORMATION: sandstone, siltstone, minor shale (1,140')*

LOWER, MIDDLE AND UPPER JURASSIC

Js — *SAVIK FORMATION: green sandstone, shale (240'; see note 1)*

LOWER JURASSIC

Jb — *BORDEN ISLAND FORMATION: sandstone (280')*

TRIASSIC
UPPER TRIASSIC

Trh — *HEIBERG FORMATION: sandstone, siltstone, minor shale (4,150')*

MIDDLE AND UPPER TRIASSIC

Trba — *BLAA MOUNTAIN FORMATION: dark coloured shale, siltstone, minor sandstone (4,450'; see note 2)*

INTRUSIVE ROCKS

CRETACEOUS

Gabbro, diabase and basalt dykes (see note 3)

Geological boundary (defined, approximate, assumed)
Bedding (horizontal, inclined, vertical, overturned)
Fault (defined, approximate; solid circle indicates downthrow side where known)
Anticline (defined, approximate; showing apex and plunge of axis)
Syncline (defined, approximate; showing plunge of axis)
Fossil locality
Measured section showing approximate line of traverse
Boundary of Quaternary sediments

Geology by R. Thorsteinsson 1956, 1957 and E.T. Tozer, 1956

Compiled by R. Thorsteinsson

NOTES

1. The Savik Formation in the Slidre Fiord area includes the following units in upward order: (1), calcareous shale, 40 feet thick; (2), green, glauconitic sand and sandstone, 200 feet thick; (3), siltstone and shale, poorly exposed and 190 feet thick. The contact between unit 3 and the overlying Awingak Formation has no appreciable topographic expression, but the contact between units 2 and 3 constitutes a readily mapped junction. Therefore, the upper siltstone and shale unit of the Savik has been included with the Awingak on this map.

2. The thickness of the Blaa Mountain Formation is shown on the structure cross-section to be 4,445 feet. This figure represents an estimate based on a section of the formation that was measured on the north side of Greely Fiord (see locality 102, Greely Fiord West map-area). There, the 4,445 feet of rock includes five gabbro sills totalling 425 feet in thickness.

3. Basic dykes and sills intrude the Blaa Mountain and Heiberg Formations in the Slidre Fiord area. Sills are especially numerous in the Blaa Mountain and attain a thickness of about 400 feet. They are responsible for the topographic prominence of the formation. The larger and more conspicuous dykes are shown on the map but sills have not been mapped. The dykes and sills are considered to be mainly Cretaceous in age.

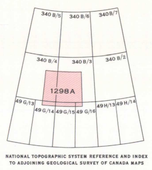
Geological cartography by the Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada, 1970

Trail
Intermittent stream
Contours (interval 25 feet)

Base-map compiled and drawn by the Topographical Survey, Department of Mines and Technical Surveys, 1950, 1951 with revisions by the Geological Survey of Canada

The daily change of the North Magnetic Pole causes the magnetic compass to be very erratic in this area

INDEX MAP



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS

Published, 1971
Copies of this map may be obtained from the Geological Survey of Canada, Ottawa

Printed by the Surveys and Mapping Branch

MAP 1298A
GEOLOGY
SLIDRE FIORD
DISTRICT OF FRANKLIN

Scale 1:50,000
1.25 inches to 1 mile approximately

Miles 1 0 1 2 3 Miles
Kilometres 2 0 2 4 Kilometres

MAP 1298A
SLIDRE FIORD
DISTRICT OF FRANKLIN

1298A