GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

103°00′ 50′ 40′ 30′ 20′ 10′ 102°00′ 50′ 40′ 30′ 20′ 10′ 101°00′ 50′ 40′ 30′ 20′ 10′ 100°00′

78°00′ 50′ 40′ 77°30′

DANISH STRAIT

MACLEAN STRAIT

KING CHRISTIAN ISLAND

Wallis River

Scallion Point

Sutherland Point

Bardin Point

Cape Abernethy

ELLEF RINGNES ISLAND 150±

Kcl Kcu Kh Ki JKd Qal Qg

370± 330± 540± 39±

1 Panarctic King Christian D-18
2 Panarctic King Christian D-18A
3 Panarctic Tenneco et al. King Christian N-06
4 Dome Arctic Ventures Wallis K-62
5 Dome Arctic Ventures Sutherland 0-23

A B

Diagrammatic cross-section along A-B

MACLEAN STRAIT — KING CHRISTIAN N-06 (Projected 1.8 miles northwest) — DANISH STRAIT

Feet: 10000, 5000, SEA-LEVEL, −5000, −10000, −15000

Metres: 3000, 2000, 1000, SEA-LEVEL, −1000, −2000, −3000, −4000

Kh, Kcu, Kcl, Ki, JKd, ŦJhb, Ŧhl, Jsl, Jsj, Jsu, Jr, Ŧba/?Ŧbl

T.D. 11020′

LEGEND

CENOZOIC

QUATERNARY

Qal — *Alluvium: gravel, sand, silt, clay*

Qg — *Glacial-fluvial gravel*

MESOZOIC

CRETACEOUS
LOWER AND (?) UPPER CRETACEOUS

Kh — *HASSEL FORMATION: sandstone; minor siltstone, shale, coal*

LOWER CRETACEOUS

Kcl / Kcu — *CHRISTOPHER FORMATION:* Kcl, *dark green-grey, concretionary shale; glauconitic sandstone at top;* Kcu, *dark grey shale; minor concretions*

Ki — *ISACHSEN FORMATION: sandstone, siltstone, shale; minor pebble conglomerate; minor coal*

JURASSIC AND CRETACEOUS
UPPER JURASSIC AND LOWER CRETACEOUS

JKd — *DEER BAY FORMATION: dark grey, silty shale; very thin beds of sandstone toward top*

SUBSURFACE ONLY (STRUCTURE CROSS-SECTION)

MESOZOIC

JURASSIC
UPPER JURASSIC

Jr — *RINGNES FORMATION: black, silty shale; minor siltstone, sandstone*

LOWER, MIDDLE AND (?) UPPER JURASSIC

Jsu — *SAVIK FORMATION:* Jsu, *Upper Shale Member: black shale;*
Jsj — Jsj, *Jaeger Member: partly glauconitic sandstone;*
Jsl — Jsl, *Lower Shale Member: grey shale*

TRIASSIC AND JURASSIC
UPPER TRIASSIC AND LOWER JURASSIC

ŦJhb — *HEIBERG FORMATION (Upper Member) AND BORDEN ISLAND FORMATION (Undivided): quartzose sandstone; partly coaly*

TRIASSIC
UPPER TRIASSIC

Ŧhl — *HEIBERG FORMATION (Lower Member): sandstone, siltstone, shale*

LOWER (?), MIDDLE AND UPPER TRIASSIC

Ŧba/?Ŧbl — *BLAA MOUNTAIN FORMATION AND (?) BLIND FIORD FORMATIONS: shale and siltstone; mafic intrusions*

Geological boundary (defined, approximate, assumed)
Intraformational boundary (approximate, assumed)
Bedding (inclined)
Bedding (from aerial photographs or observed from aircraft)
Fault (defined, solid circle indicates downthrow side)
Anticline (defined, approximate; arrow indicates plunge)
Syncline (approximate; arrow indicates plunge)

Geology by H.R. Balkwill and K.J. Roy, 1973

To accompany Memoir 386 by H.R. Balkwill and K.J. Roy

WELL LOCATIONS

Panarctic King Christian D-18 1
Panarctic King Christian D-18A 2
Panarctic Tenneco et al. King Christian N-06 3
Dome Arctic Ventures Wallis K-62 4
Dome Arctic Ventures Sutherland 0-23 5

Geological cartography by B.H. Ortman, Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Horizontal control point
Intermittent stream
Dry river bed with channel
Contours (interval 100 feet) 500
Sand or gravel
Height in feet above mean sea-level 150±

Base-map cartography by the Institute of Sedimentary and Petroleum Geology from part of 1/250,000 scale map King Christian Island 69C published by the Army Survey Establishment, R.C.E. in 1965

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

Copies of this map may be obtained from the Geological Survey of Canada:
601 Booth Street, Ottawa, Ontario K1A 0E8
3303 - 33rd Street N.W., Calgary, Alberta T2L 2A7

Printed by the Surveys and Mapping Branch, 1976

INDEX MAP

MAP 1445A

GEOLOGY

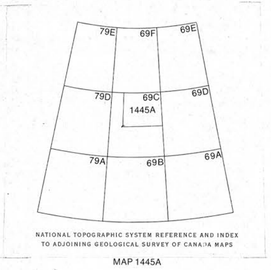
SURFACE BEDROCK GEOLOGY, KING CHRISTIAN ISLAND

DISTRICT OF FRANKLIN

Scale 1:125,000

Kilometres 3 0 3 6 9 Kilometres
Miles 2 0 2 4 Miles

Transverse Mercator Projection



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

MAP 1445A
SURFACE BEDROCK GEOLOGY, KING CHRISTIAN ISLAND
DISTRICT OF FRANKLIN