

**QUATERNARY**  
**Q** Fluvial, deltaic, glacial, interglacial and raised beach deposits

**PALEOGENE**  
**Eocene**  
 Freemans Cove Igneous Suite

**SVERDRUP BASIN**

**CRETACEOUS**  
**KANGUK FORMATION** (tiny outliers)  
**ISACHSEN FORMATION** (tiny outliers)

**JURASSIC**  
**AWINGAK FORMATION** (northwestern Cameron Island only).  
**RINGNES AND SANDY POINT FORMATIONS** (northwestern Cameron Island only).

**TRIASSIC**  
**PAT BAY FORMATION** (northern Cameron Island only).  
**BJORNE FORMATION** (Cameron Island only).

**PERMIAN**  
**TROLD FIORD FORMATION** (southern Cameron Island only).  
**GREAT BEAR CAPE FORMATION** (northeastern Helena Island only).  
**BELCHER CHANNEL FORMATION** (northeastern Helena Island only).

**CARBONIFEROUS AND (?)PERMIAN**  
**CANWON FIORD FORMATION** (northeastern Bathurst Island, eastern Helena Island and adjacent small islands).

**Exploration wells**

1. Caledonian River J-34
2. Allison River N-12
3. Young Inlet D-21
4. Holspur J-20
5. Bent Horn N-72
6. Robert Harbour K-07
7. Cape Fleetwood M-21
8. West Bent Horn C-44
9. Bent Horn F-72; F-72A
10. West Bent Horn E-43
11. Key Point O-51
12. Charles Point G-07
13. West Bent Horn I-01; I-01A
14. West Bent Horn M-12
15. Sophie Point G-19
16. Bent Horn A-57
17. Stokes Range J-11
18. West Bent Horn A-02
19. West Bent Horn G-02

**Mineral deposits, occurrences**

- A. Truro Island (sphalerite, galena)
- B. Markham Point (sphalerite, galena)
- C. Bass Point (sphalerite, galena)
- D. Cheyne River (smithsonite)
- E. Moses Robinson River (smithsonite)
- F. Polar Bear Pass (barite)
- G. Caledonian River (barite)
- H. Polaris Mine (sphalerite, galena) off map

**PARRY ISLANDS AND CORNWALLIS FOLD BELTS**

**DEVONIAN**  
**UPPER DEVONIAN**  
 PARRY ISLANDS FORMATION (five members)  
 undivided  
 BEVERLEY INLET FORMATION (upper and lower units)  
 undivided

**MIDDLE DEVONIAN**  
 HECLA BAY FORMATION (upper and lower parts)  
 undivided  
 BIRD FIORD FORMATION  
 CAPE DE BRAY FORMATION

**LOWER AND MIDDLE DEVONIAN**  
 BLUE FIORD beds (three members)  
 undivided  
 EIDS beds (three members)  
 undivided

**LOWER DEVONIAN**  
 DISAPPOINTMENT BAY FORMATION  
 Unnamed formation  
 PRINCE ALFRED FORMATION  
 GOOSE FIORD FORMATION

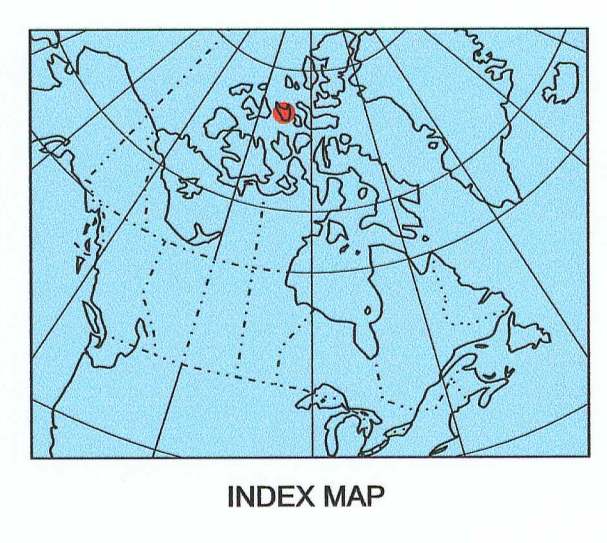
**SILURIAN AND DEVONIAN**  
**UPPER SILURIAN AND LOWER DEVONIAN**  
 BATHURST ISLAND beds and STUART BAY beds (3 mapped facies)  
 Proximal submarine fan, conglomerate, sandstone facies  
 Slope carbonate, olistrome facies  
 Submarine fan siltstone, sandstone facies  
 Includes undivided Bathurst Island and Stuart Bay beds

**DEVON ISLAND FORMATION**

**ORDOVICIAN AND SILURIAN**  
**UPPER ORDOVICIAN TO UPPER SILURIAN**  
 CAPE PHILLIPS FORMATION

**ORDOVICIAN**  
**MIDDLE AND UPPER ORDOVICIAN**  
 THUMB MOUNTAIN AND IRENE BAY FORMATIONS

**MIDDLE ORDOVICIAN**  
 BAY FIORD FORMATION  
 Dolostone and limestone  
 Evaporites



Fault, thrust: approximate, assumed  
 Fault, normal: approximate, assumed  
 Fault, undetermined: approximate, assumed  
 Mineral occurrence: (sphalerite, galena; barite; bitumen) X ZN, PB, BARITE, BITUMEN  
 Exploratory well: oil well; abandoned well

Copies of this map are available from:  
 Publications Office  
 Geological Survey of Canada  
 3303-33rd Street, N.W.  
 Calgary, Alberta T2L 0A7  
 Phone: 403/292-7030  
 Email: gsc\_calgary@gsc.nrcan.gc.ca

Although every effort has been made to ensure accuracy, this Open File Report has not been edited for conformity with Geological Survey of Canada Standards.

OPEN FILE 3714  
 Figure 1 in Harrison and DeFreitas (1999)  
**SIMPLIFIED BEDROCK GEOLOGY**  
**BATHURST ISLAND AREA**  
 NUNAVUT  
 Scale 1:400 000 - Échelle 1/400 000  
 Kilometres 0 10 20 30 40 Kilomètres  
 Universal Transverse Mercator Projection / Projection transversale universelle de Mercator  
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Recommended citation:  
 Harrison, J.C. and De Freitas, T.  
 1999: Simplified bedrock geology Bathurst Island area, Figure 1 in  
 Overview of bedrock geology, Geological Survey of Canada  
 Open File 3714, p.51-540, scale 1:400,000

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