

**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 FJORD FORMATION (southern Cameron Island only)  
 GREAT BEAR CAPE FORMATION (northeastern Helena Island only)  
 BELCHER CHANNEL FORMATION (northeastern Helena Island only)

**CARBONIFEROUS AND (?) PERMIAN**  
 CAWNON FJORD FORMATION (northeastern Bathurst Island, eastern Helena Island and adjacent small islands)

**DEVONIAN**  
**UPPER DEVONIAN**  
 PARRY ISLANDS FORMATION (five members)  
 undivided

**MIDDLE DEVONIAN**  
 BEVERLEY INLET FORMATION (upper and lower units)  
 undivided  
 HECLA BAY FORMATION (upper and lower parts)  
 undivided  
 BIRD FJORD FORMATION  
 CAPE DE BRAY FORMATION

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

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

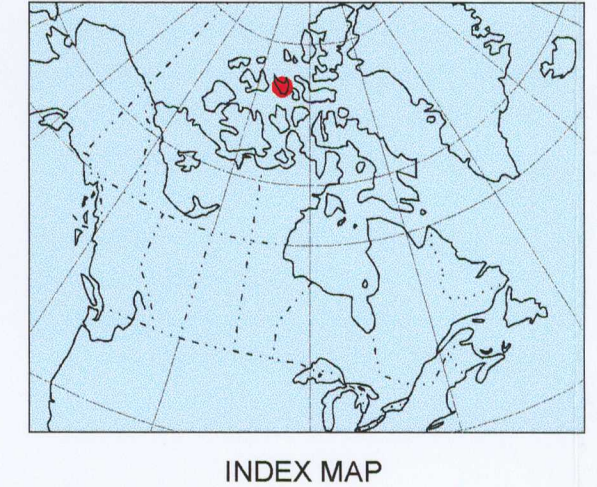
**SILURIAN AND DEVONIAN**  
 UPPER SILURIAN AND LOWER DEVONIAN  
 BATHURST ISLAND beds and STUART BAY beds (3 mapped facies)  
 Proximal submarine fan, conglomerate, sandstone facies  
 Slope carbonate, olistrome facies  
 Submarine fan siltstone, sandstone facies (includes undivided Bathurst Island 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 FJORD FORMATION  
 Dolostone and limestone  
 Evaporites

**Exploration wells**  
 1. Caledonian River J-34  
 2. Allison River N-12  
 3. Young Inlet D-21  
 4. Hotspur J-20  
 5. Bent Horn N-72  
 6. Robert Harbour K-07  
 7. Cape Fleelwood 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

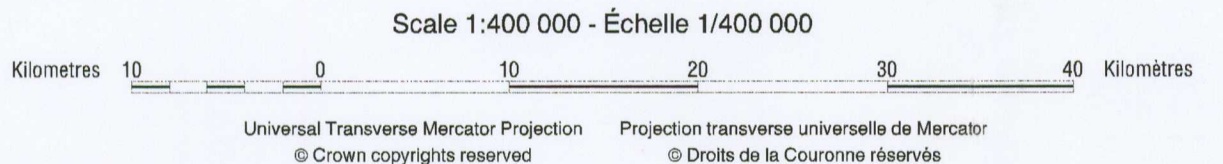


Fault, thrust: approximate, assumed  
 Fault, normal: approximate, assumed  
 Fault, undetermined: approximate, assumed  
 Mineral occurrence (sphalerite, galena, barite, bitumen) X ZN, PB, BARITE, BITUMEN  
 Exploratory well: oil well; abandoned well

Copies of this map are available from:  
 Publications Office  
 Geological Survey of Canada  
 3503-50th Street, N.W.  
 Calgary, Alberta T2L 2A7  
 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



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.B1-B40, scale 1:400,000

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