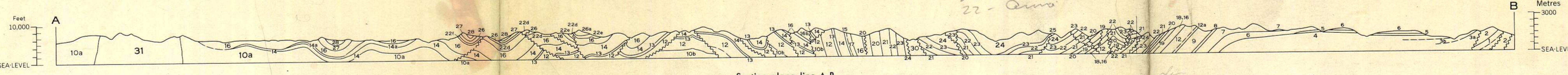
GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES



Section along line A-B

LEGEND

CENOZOIC

PLEISTOCENE AND RECENT

32 Unconsolidated glacial and alluvial deposits

MESOZOIC

CRETACEOUS (?)

31 *Medium-grained biotite-hornblende and hornblende-biotite quartz monzonite and granodiorite; commonly porphyritic in potash feldspar*

CRETACEOUS

30 *Dark grey and black shale, argillite, sandstone, quartz-pebble and cobble conglomerate, highly carbonized plant debris and coal*

PALEOZOIC

CARBONIFEROUS OR PERMIAN

29 *Light grey to buff and locally orange weathering flaggy to thin-bedded dolomite commonly with light coloured chert bands; interbedded sandy dolomite and fine-grained white to tan orthoquartzite; occasional thick beds of very coarse grained light grey weathering bioclastic limestone; appreciable dark shale with thin beds of orthoquartzite and dolomite in the lower part*

DEVONIAN AND (?) MISSISSIPPIAN

28 *Dark grey to black shale and argillite*

UPPER DEVONIAN AND (?) MISSISSIPPIAN

27 *Thick-bedded massive fine- to medium-grained, medium grey to white orthoquartzite; some granule and coarse-grained sand; minor chert-pebble conglomerate and interbedded dark shale*

26 *Dark brown-grey to black shale, argillite, silty shale and brownish siltstone; minor chert-pebble conglomerate, chert arenite and quartzite; near southwest corner of the map-area may include minor Road River Formation,(unit 19c);* **26a**, *silvery blue weathering black shale, argillite, cherty argillite and minor banded chert; lower part is dark reddish brown weathering dark grey shale with occasional bands of chert-pebble conglomerate, fine-grained quartzite and light coloured chert;* **26b**, *brownish weathering dark grey to brown flaggy and platy very fine grained massive sandstone, siltstone and silty argillite, in part calcareous;* **26c**, *dark brown to black shale; minor brownish platy siltstone near the base and thin beds of dark to medium grey fine-grained laminated quartzite in the upper part;* **26d**, *undivided a, b and c*

MIDDLE DEVONIAN

25 *NAHANNI FORMATION: massive, thick-bedded, fine- to medium-grained light grey weathering limestone*

24 *HEADLESS FORMATION: buff-brown weathering argillaceous and silty, commonly dark grey, fine-grained limestone; platy to thin-bedded; in part dark grey weathering with rouge cast; minor intercalated irregularly banded orange weathering dolomite and thin beds of resistant light grey weathering massive fine- to crypto-grained limestone*

23 *LANDRY FORMATION: thin to very thick bedded resistant light grey weathering, medium to light grey and brownish crypto-grained limestone;* **23a**, *massive and thick-bedded bioclastic, locally reefoid medium grey limestone;* **23b**, *medium to dark grey weathering black, very fine- to crypto-grained platy limestone; in part flaggy and thin-bedded; minor black chert; abundant rouge hematite-rich bands and laminations; mainly buff-brown weathering northwest of Godlin Lakes*

22 *ARNICA FORMATION: thin- and thick-bedded dark grey to black commonly laminated dolomite; minor light grey dolomite and light grey to medium grey weathering dark grey to black limestone;* **22a**, *includes much black platy limestone;* **22b**, *medium brown grey and light grey weathering dark grey to black shaly limestone; platy to thin-bedded; occasional beds of massive crinoidal limestone; probably equivalent to 21 and 22;* **22c**, *light grey weathering fine-grained grey dolomite, commonly bioclastic, vuggy and thick-bedded, minor light buff, tan weathering dolomite and light grey weathering thin-bedded limestone, includes equivalents of units 19 to 23;* **22d**, *light grey weathering, thin-bedded, dark grey crypto-grained limestone, in part buff weathering and platy to flaggy, commonly coarse-grained and bioclastic, minor buff weathering dolomite locally at the base, includes equivalents of units 20 to 25;* **22e**, *light tan grey weathering, platy to flaggy, black shaly limestone facies of 22d;* **22f**, *light grey weathering commonly bioclastic limestone includes rocks of Arnica equivalent and probably younger*

21 *SOMBRE FORMATION: light and medium grey banded dolomite;* **21a**, *dark grey weathering dolomite*

SILURIAN AND DEVONIAN

20 *DELORME FORMATION: buff to orange weathering well bedded, buff, light grey, brownish grey and dark grey, commonly very fine grained dolomite; minor light grey to white limestone;* **20a**, *dark brown, tan weathering shaly limestone;* **20b**, *platy to flaggy wavy banded blue-grey silty limestone with irregular tan-buff mottling and occasional thin beds of buff weathering dolomite;* **20c**, *light grey and buff weathering massive, porous limestone breccia, probably correlative to Camsell Formation*

ORDOVICIAN AND SILURIAN

UPPER ORDOVICIAN AND SILURIAN

19 *WHITTAKER FORMATION: thick-bedded black coarse-grained dolomite and interbedded medium to light grey weathering commonly laminated dolomite; nodules and irregular bands of black chert;* **19a**, *medium grey weathering platy and flaggy dark grey argillaceous limestone with minor chert bands and thin shaly members;* **19b**, *mainly dark shaly limestone with light and dark dolomite and banded chert in the lower part;* **19c**, *platy to fissile silvery grey to tan weathering black graptolitic shaly limestone and limy shale, correlative to Road River Formation;* **19d**, *orange and brown weathering dolomite-cemented sandstone, silty and sandy laminated dolomite and dolomitic siltstone, green and purple chert pebble conglomerate; green-grey and mauve silty and pebbly dolomite; light grey and buff weathering light grey to black platy dolomites and limestone; purple shale*

ORDOVICIAN

MIDDLE ORDOVICIAN

18 *SUNBLOOD FORMATION: mainly buff and light grey weathering platy, flaggy and rarely thin-bedded dolomite and limestone; commonly irregularly intercalated and mottled weathering yellow, rouge and grey; locally has interbedded light and dark grey and rarely black finely crystalline and white coarsely crystalline dolomite at the base; occasional thick beds of light blue-grey limestone*

CAMBRIAN AND ORDOVICIAN

UPPER CAMBRIAN AND ORDOVICIAN

17 *Mainly flaggy, resistant, buff to orange weathering regular and wavy banded silty dolomite and buff to blue grey weathering silty limestone, occasional thin beds of orange weathering silty dolomite, platy rouge weathering dark grey to black limestone and light grey crypto-grained limestone*

CAMBRIAN AND LATER

MIDDLE CAMBRIAN AND LATER

16 *Recessive, black, locally graptolitic calcareous shales and commonly buff-tan weathering shaly limestone, in part flaggy and thin-bedded, includes unit 15, Road River Formation and shale facies of carbonate units 17 to 25;* **16a**, *mainly Road River Formation and younger;* **16b**, *flaggy and thin-bedded shaly limestone*

CAMBRIAN

MIDDLE CAMBRIAN

15 *Recessive dark grey to brown grey weathering laminated platy calcareous shale and silty argillaceous dark grey fine- to crypto-grained limestone; minor thin beds of light brown to bluish grey weathering platy dark crypto-grained limestones and occasional bands of buff dolomite*

LOWER CAMBRIAN

14 *SEKWI FORMATION: bright orange and buff weathering dolomite, sandy dolomite and dolomite-cemented sandstone, grey to buff weathering nodular and wavy banded, commonly silty, limestone, oolitic and bioclastic light grey limestone and minor variegated shale;* **14a**, *light grey dolomite*

13 *Dark brown weathering, thin-bedded argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse-grained white to light grey orthoquartzite*

CAMBRIAN AND EARLIER

12 *Light grey, white and pink thick-bedded medium- to coarse-grained orthoquartzite; minor brown to green-brown platy siltstone, silty shale and thin-bedded fine-grained quartzite;* **12a**, *interbedded quartzite siltstone and shale;* **12b**, *interbedded siltstone, shale and minor quartzite*

11 *Buff weathering thick-bedded dolomite; in part oolitic and sandy; minor dolomite-cemented sandstone*

PROTEROZOIC

10 **10a**, *dark grey to brown and minor green silty slate, slate and phyllite commonly banded and laminated grey and greenish grey and deep red-brown weathering; occasional bands of laminated siltstone and thin beds of platy to flaggy brown fine-grained quartzitic sandstone; contains a thick member of orange weathering dolomitic shale near top of unit where it grades eastward to quartzite of unit 12;* **10b**, *dark grey, brown and green well banded and laminated platy to thin-bedded siltstone and shale; minor argillaceous sandstone; east of Sekwi Mountain has thick member of medium blue grey weathering platy dark grey limestone and buff to grey dolomite*

9 *Dark brown and brown-grey weathering silty shale, argillite and minor laminated brown siltstone, some thin sandy and pebbly beds in lower part*

8 *Reddish orange to yellow weathering commonly sandy dolomite; cream to buff medium- to fine-grained; in part well laminated or banded and flaggy; commonly with fragments of blue grey banded limestone; has a distinct thin upper member of vivid buff-yellow weathering, buff crypto-grained dolomite*

7 *UPPER RAPITAN GROUP: green-grey to dark grey shale, weathers dark green to brownish grey; minor light grey siltstone and very fine grained light green-grey to brown sandstone; upper part has laminations and bands of buff-orange to brown weathering dolomitic limestone; middle part has more sand and weathers orangish brown*

6 *MIDDLE RAPITAN GROUP: brown to orange-brown weathering light green-grey to dark grey conglomeratic silty and sandy mudstone; pebbles, cobbles and boulders of carbonate, greenstone, sandstone, chert, mudstone, igneous and metamorphic rocks*

5 *LOWER RAPITAN GROUP: dark purple brown weathering maroon mudstone, minor pebbles and cobbles of limestone, green mudstone, sandstone and chert; interbeds of green-grey sandy mudstone-matrix-conglomerate*

4 *Light grey limestone, minor light grey and buff weathering dolomite*

3 **3a**, *mainly light grey to medium grey weathering, light grey platy fine-grained limestone;* **3b**, *dark grey weathering, dark grey commonly finely laminated platy fine-grained limestone*

2 *Mostly thin-bedded and flaggy light grey to buff weathering fine-grained dolomite, minor laminated and massive orange weathering light grey to white very fine grained dolomite; very minor pale green, tan, brown, dark grey and purple shale and argillite; upper part is mainly orange weathering stromatolitic dolomite and massive vuggy light grey to buff craggy weathering fine-grained dolomite*

1 *Thin-bedded and banded green argillite, green to tan silty shale, laminated and massive buff to red-orange weathering dolomite, purple argillite, finely-laminated light and dark green siltstone and argillite, rusty red weathering pale green and pink fine-grained quartzite*

Geological boundary (defined, approximate and assumed)

Drift boundary

Bedding (horizontal, inclined, vertical, overturned)

Fault (defined, approximate and assumed); solid circle indicates downthrow side

Thrust fault (defined, approximate and assumed; arrow indicates direction of dip

Anticline (defined, approximate) arrow indicates direction of plunge

Syncline (defined, approximate) arrow indicates direction of plunge

Anticline, syncline (overturned)

Geology by S.L. Blusson 1966, 1967

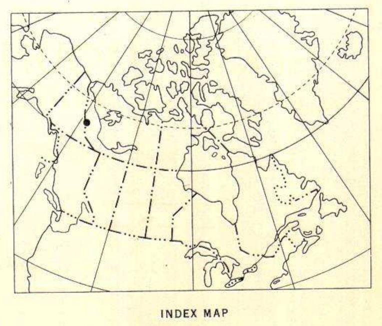
Geological cartography by the Geological Survey of Canada

Base-map at the same scale published by the Surveys and Mapping Branch in 1954

Copies of the topographical edition of this map may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa

Approximate magnetic declination 1971 35°17′ East, decreasing 5.3′ annually

Elevations in feet above mean sea-level



GEOLOGY

SEKWI MOUNTAIN

NORTHWEST TERRITORIES - YUKON TERRITORY

Scale 1:250,000

Miles 4 0 4 8 12 Miles

Kilometres 6 0 6 12 18 Kilometres

Univerval Transverse Mercator Projection

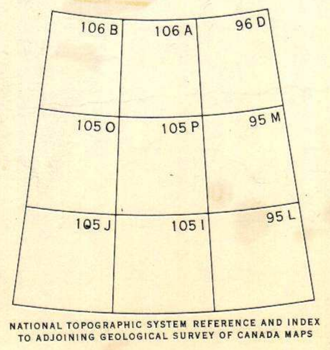
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

inches 0 1 2

0 1 2 3 4 5 centimetres

YUKON GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.



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

OPEN FILE
130
GEOLOGICAL SURVEY
OTTAWA

015572

SEKWI MOUNTAIN
NORTHWEST TERRITORIES - YUKON TERRITORY

PROSPECTS
1. ELL
2. MEHITABEL
3. SEKWI
4. NATLA = NITE
5. SCAT
6. BACKBONE
7. TEE, LIN
8. LAN, DN
9. DEE
10. WEATHER

105 - P