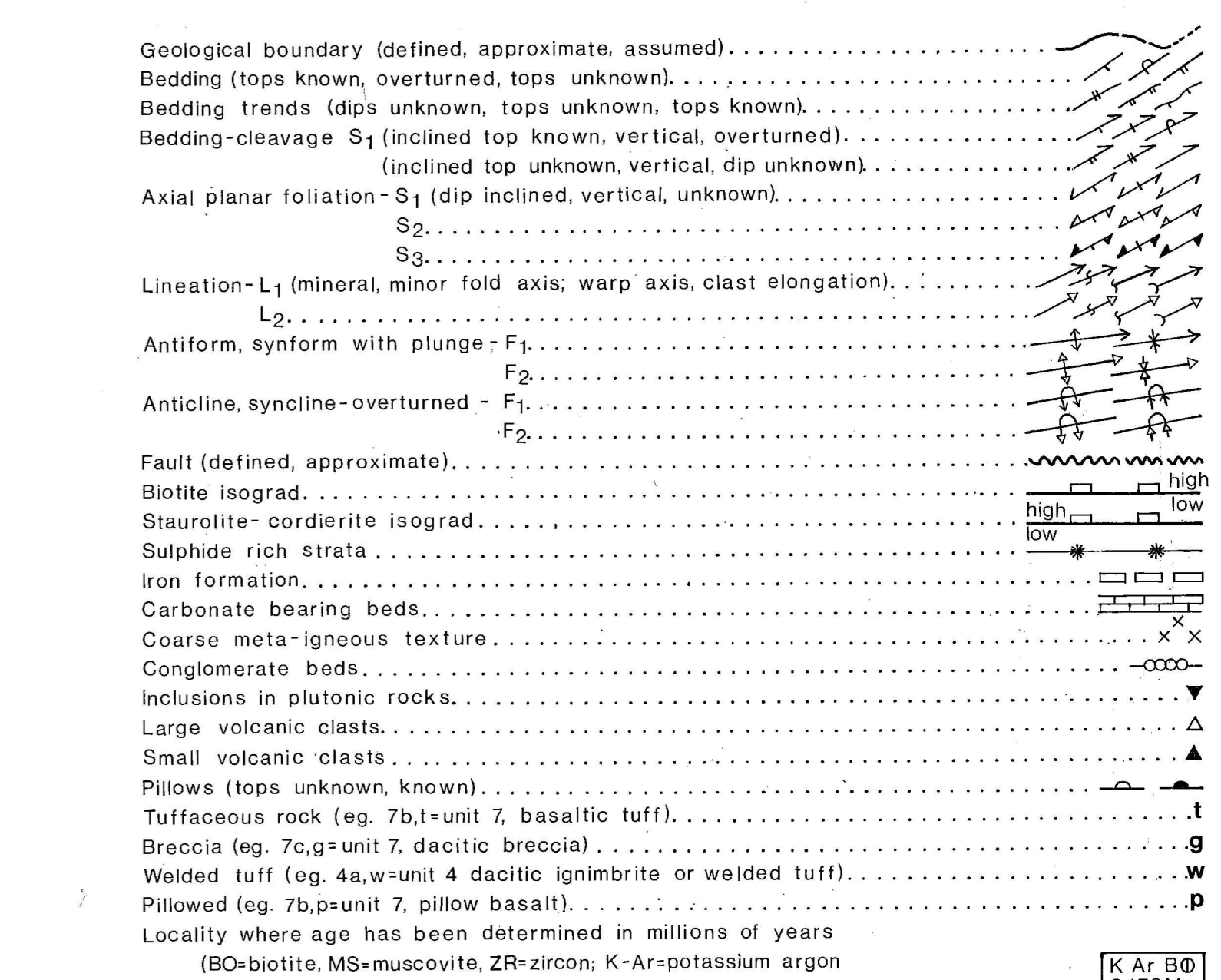


- QUATERNARY**
 Sand and gravel; esker, indicating probable direction of flow, glacial outwash, gorge.
- HELIKIAN**
 13 MACKENZIE DIABASE: gabbro dykes.
- 12** Gabbro sill.
- APHEBIAN**
GOULBURN GROUP
 11b BURNSIDE FORMATION.
 11a WESTERN RIVER FORMATION: 11a-1 Lower Argillite Member; 11a-2 Red siltstone and Argillite Member; 11a-3 Quartzite Member; 11a-4 Upper Argillite Member.
- 10** DIABASE; 10m Malley diabase.
- REGAN INTRUSIVE SUITE**
 9p Granite pegmatite.
 9gt Granite.
 9gd Leucogranodiorite.
 9mgd Melanogranodiorite.
 9gd Granodiorite, undifferentiated.
 9tn Tonalite.
 9dt Diorite, quartz diorite.
- MARA RIVER COMPLEX**
 Migmatite and granitoid gneiss derived from units 1-7: 2M, migmatite derived from unit 1; 2Mg, migmatite derived from units 2, 3, 4; 3M, migmatite derived from unit 6.
 8 Undifferentiated granitoid rocks and gneiss, which may include unrecognized unit 9: 8p, pegmatite; 8gt, granite; 8gd, granodiorite; 8m, tonalite; 8dt, diorite, quartz diorite.
- YELLOWKNIFE SUPERGROUP**
BACK GROUP
 7a, massive and pillowed andesite, porphyritic andesite and andesitic tuff; 7b, basalt flows, pillow lavas, breccia and tuff; 7c, massive dacite flows, breccia and tuff; 7d, synvolcanic intrusions of gabbro.
- BEECHEY LAKE GROUP**
 6, Undifferentiated greywacke, mudstone, carbonaceous shale, greywacke; 6b, mudstone; 6c, carbonaceous mudstone; 6d, porphyroblast gneiss and schist derived from 6a-6c; 6e, locally migmatitic rocks derived from 6a-6c.
- HACKETT RIVER GROUP**
 5, Metamorphosed and deformed equivalents of units 3 and 4: 5a, dacite; 5b, andesite and/or basalt; 5c, migmatite.
- IGNERIT FORMATION:** felsic and basic flows, fragmental volcanics, volcanic sediments, iron formation, chert, sulphide rich zones; 4a, dacite, dacitic tuff; 4b, andesite, basalt, basic tuff; 4c, carbonate with dacitic fragmental rocks.
- 3** NAUNA FORMATION: andesite, basalt and dacite flows, and fragmental rocks; 3a, dacite flows and fragmental volcanics; 3b, andesite and basalt flows and fragmental volcanics; 3c, felsic synvolcanic intrusions; 3d, basic synvolcanic intrusions.
- 2** SIORAK FORMATION: biotite-chlorite schist, sericitic schist, mafic amphibole gneiss and quartzofeldspathic gneiss derived from volcanogenic sediments.
- HANIMOR GRANITOID COMPLEX**
 1 Tonalite, trondhjemite, dioritic gneiss and massive granodiorite and pegmatite; 1M, migmatite rock, may include synvolcanic intrusions.

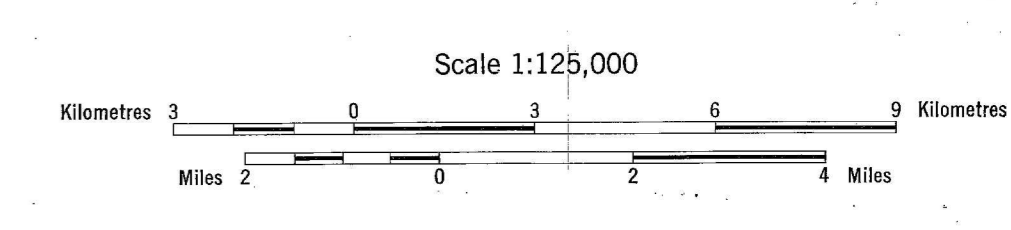
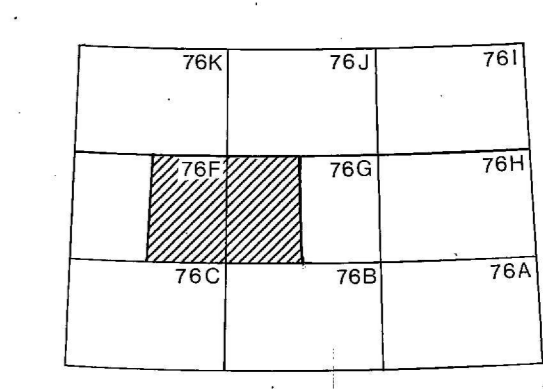
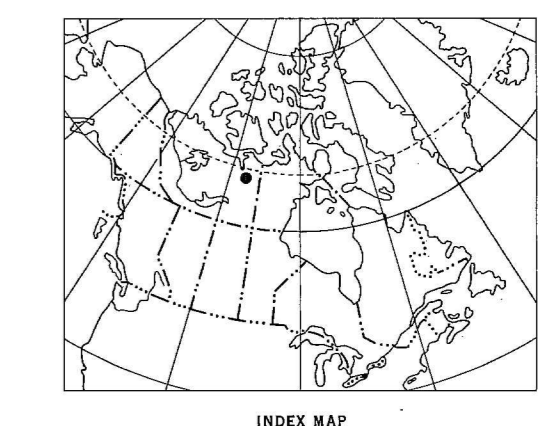


MINERAL OCCURRENCES

Andalusite	AN	Gold	Au
Anthophyllite	AY	Kyanite	KY
Biotite	BO	Microcline	MC
Calcite-Dolomite	CC	Pyrite	PY
Chlorite	CL	Sillimanite	SL
Cordierite	CD	Sphalerite	Zn
Garnet	GR	Staurolite	ST

Notes: Geology compiled by R. A. Frith, 1981, from field work by R. A. Frith, J. D. Hill, J. Percival and J. Oster carried out during 1976 and 1978 and from previous compilations by:
 a) Wilton, H.P. (1972) geology of Bathurst-Norsemans region (half mile to the inch unpublished map).
 b) Padgham, W.A. and Ronayne, E.A. (1974-1975) geology of 76G-5, 76G-12 and 76G-13 (half mile to the inch, Department of Indian and Northern Development, published maps).
 c) Jefferson, W.A. (1976) geology of 76F-9, 76F-15 and 76F-16 (half mile to the inch, Department of Indian and Northern Development, published maps).
 d) Roscoe, S.M. (1976) geology of the Yava deposit region (1:50,000 and 1:6,000 maps, unpublished).
 e) Lambert, M.B. (1977) geology of the Back River caldera complex (1:25,000 unpublished field map).
 f) Wright, G.M. (1987) Helicopter reconnaissance mapping of the eastern District of Mackenzie (8 miles to the inch published map, Geological Survey of Canada Map 17-1986).
 g) Fraser, J.A. (1984) Helicopter reconnaissance mapping of the northeastern District of Mackenzie (8 miles to the inch published map, Geological Survey of Canada Map 45-1983).
 h) Tremblay, L.P. (1971) geology of the Beechey Lake map area (1:25,000 map with detail mainly on the Goulburn Group, Geological Survey of Canada map 1267A).

Classification of plutonic rocks is after Streckeisen, 1975 (Earth Science reviews 12, pp 1-33) and volcanic rocks after Streckeisen, 1975 (Geology 3, pp 331-335).



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