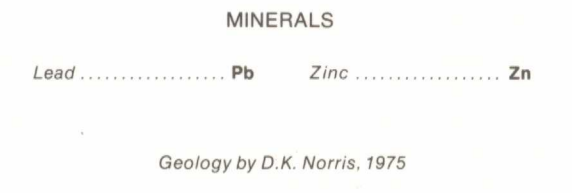
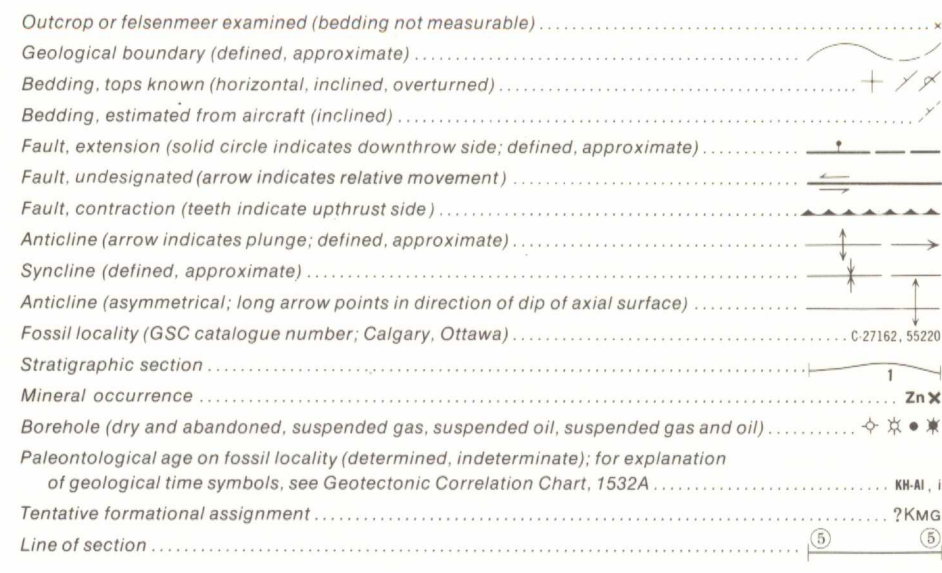


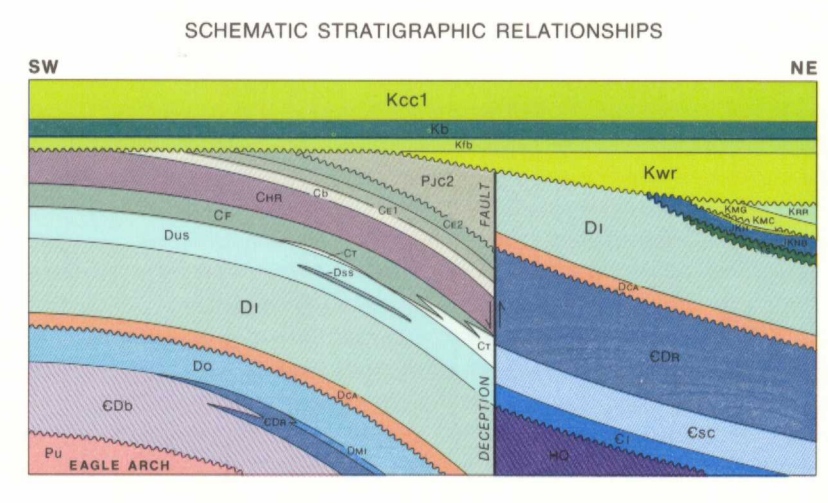
LEGEND

CENOZOIC	QUATERNARY HOLOCENE	
	Qf	Fluvialite silt, sand, and gravel, in part with cover of organic deposits
	Ql	Lacustrine deposits with minor fluvialite deposits; clay, silt, sand, and gravel, mostly with cover of organic deposits
MESOZOIC	CRETACEOUS LOWER AND UPPER CRETACEOUS	
	Kcc1	EAGLE PLAIN FORMATION (Kwr - Kcc1) Sandstone, fine- to medium-grained, light grey; siltstone and shale; alluvial and deltaic
	Kd	Shale, dark grey; siltstone, dark brown; marine
	Ktb	Sandstone, fine grained, light grey; shale, dark grey; marine
	Kwr	Shale, dark grey; siltstone, dark brown; marine
	LOWER CRETACEOUS	
	KRR	RAT RIVER FORMATION: sandstone, pale brownish grey, conglomeratic; shale, dark grey; marine
	KMG	MOUNT GOODENOUGH FORMATION: shale, siltstone, and sandstone; marine
	KMc	MARTIN CREEK FORMATION: sandstone, shale, and coal; marine and nonmarine; may include younger Neocomian clastic rocks on west flank of Richardson Mountains
		Ka1
MESOZOIC	JURASSIC AND CRETACEOUS	
	JURASSIC AND LOWER CRETACEOUS	
	JkN6	NORTH BRANCH FORMATION: sandstone, light grey, conglomeratic, glauconitic; shale and siltstone; marine
	JkH	HUSKY FORMATION: shale, siltstone, and ironstone; marine
	TRIASSIC UPPER TRIASSIC	
	Ts	Sandstone, light grey, fine grained; limestone, light grey; marine
	PERMIAN LOWER PERMIAN	
	Pj2	JUNGLE CREEK FORMATION: sandstone, very fine- to fine-grained, calcareous; dolomite, microcrystalline to fine-crystalline, brownish grey; siltstone, dolomitic
	CARBONIFEROUS UPPER CARBONIFEROUS	
	Ce2	ETTRAIN FORMATION (Ce1-Ce2) Upper part: limestone, light grey, skeletal, resistant; marine
Ce1	Lower part: limestone, light grey, skeletal; dolomite, silty, recessive; marine	
Ce	ETTRAIN FORMATION: undivided (in structure section 4 only)	
Cb	Sandstone, brown weathering; conglomerate; limestone, skeletal; marine	
LOWER AND UPPER CARBONIFEROUS		
Chr	HART RIVER FORMATION: limestone, dolomitic, skeletal-micritic; dolomite, calcareous, silty; marine; includes Chance Sandstone Member; may include Cb at headwaters of Eagle River	
LOWER CARBONIFEROUS		
Ct	TUTTLE FORMATION: conglomerate and sandstone, commonly loosely consolidated, locally carbonaceous; fluvialite	
Cf	FORT LAKE SHALE: shale, greyish black, rusty weathering, nodular; sandstone, light grey, fine grained; marine	
DEVONIAN UPPER DEVONIAN		
Dus	Shale, dark grey, rusty weathering, nodular; sandstone, fine grained; marine	
Ds5	Sandstone, fine grained, light grey; shale, dark grey, rusty weathering; marine	
Di2	IMPERIAL FORMATION (Di1-Di2) Upper part: sandstone, fine grained, lithic, dark grey; siltstone, dark grey	
Di1	Lower part: shale, dark grey, rusty weathering; siltstone, dark grey	
Di	IMPERIAL FORMATION: undivided (in structure section 4 only)	
Dca	CANOL FORMATION: shale, black, siliceous; marine	
LOWER AND MIDDLE DEVONIAN		
Do	OGILVIE FORMATION: limestone, fine grained, dark grey, variably dolomitized; marine; may include Gossage Formation. (Structure section 4 only)	
Dm1	MICHELLE FORMATION: shale, black, calcareous; limestone and dolomite, fine grained; black, orange-brown weathering; marine. (Structure section 4 only)	
CAMBRIAN TO DEVONIAN		
UPPER CAMBRIAN TO LOWER DEVONIAN		
CDr4	ROAD RIVER FORMATION (CDn0-CDn4) Shale and limestone, black, graptolitic; marine	
CDr3	Siltstone, medium grey, platy; limestone, dark grey	
CDr2	Sharpstone breccia, heterogeneous, commonly with limestone and chert clasts; turbiditic	
CDr1	Shale and limestone, black, graptolitic; marine	
CDn0	Shale, black, calcareous; limestone, black; marine	
CDn	ROAD RIVER FORMATION: undivided; may include Michelle Formation	
CDb	Limestone, dolomite, and shale; marine. (Structure section 4 only)	
CAMBRIAN MIDDLE CAMBRIAN		
CSc	SLATS CREEK FORMATION: sandstone, fine grained, medium grey; siltstone, brown weathering; marine	
LOWER CAMBRIAN		
Cl	ILLTYD FORMATION: limestone, fine crystalline, dark grey; marine (Subsurface only)	
HELIKIAN		
Pu	Siltstone, quartzite and dolomite, undivided; marine? (Structure section 4 only)	
APHEBIAN		
Ho	QUARTET GROUP: phyllite, black, feldspathized; breccia, heterolithic. (Structure section 4 only)	



- SCHEDULE OF WELLS
1. Western Minerals Chance No. 1, T.D. 2636 m
 2. Socony Mobil WM E. Porcupine R. YT K-56, 2591 m
 3. Socony Mobil WM Chance YT G-8, T.D. 1579 m
 4. Socony Mobil WM Ellen YT C-24, T.D. 2174 m
 5. Socony Mobil WM S. Tuttle YT N-5, T.D. 3513 m
 6. Socony Mobil WM W. Parkin YT D-51, T.D. 1509 m
 7. Socony Mobil WM Birch YT B-34, T.D. 1650 m
 8. Canoe River Chance YT J-19, T.D. 1446 m
 9. Canoe River E. Chance C-18, T.D. 1541 m
 10. SOBC WM Schaeffer Ck. YT O-22, T.D. 3162 m
 11. SOBC WM E. Porcupine YT I-13, T.D. 2440 m
 12. Chevron SOBC WM W. Parkin YT C-33, T.D. 1257 m
 13. Chevron SOBC WM E. Pine Ck. YT O-78, T.D. 948 m
 14. Chevron SOBC WM N. Parkin YT D-61, T.D. 3353 m
 15. Chevron SOBC WM Birch YT E-53, T.D. 684 m
 16. Chevron SOBC WM E. Porcupine YT F-18, T.D. 2051 m
- Note: Well listing is chronological in order of spudding date

ACKNOWLEDGMENTS
 Geological synthesis based on field observations and/or paleontological determinations made by the following geologists, listed alphabetically, with years of field activity where applicable: Geological Survey of Canada - E.W. Bamber, 1962; W.A. Bell, W.W. Bréard, M.J. Copeland, G.L. Hughes, 1962; J.A. Jelezky, D.C. McGregor, E.W. Mountjoy, 1962; B.S. Norford, 1962; D.K. Norris, 1962, 1973; R.A. Price, 1962; G.R. Turnquist, 1962; Industry - Chevron Standard Co. Ltd., 1962; Imperial Oil Co. Ltd., 1961; Western Minerals Co. Ltd., 1961; The Open University - D.E. Jackson; University of Toronto - J.B. Waterhouse.



Geological cartography by M.D. Wallace, Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada

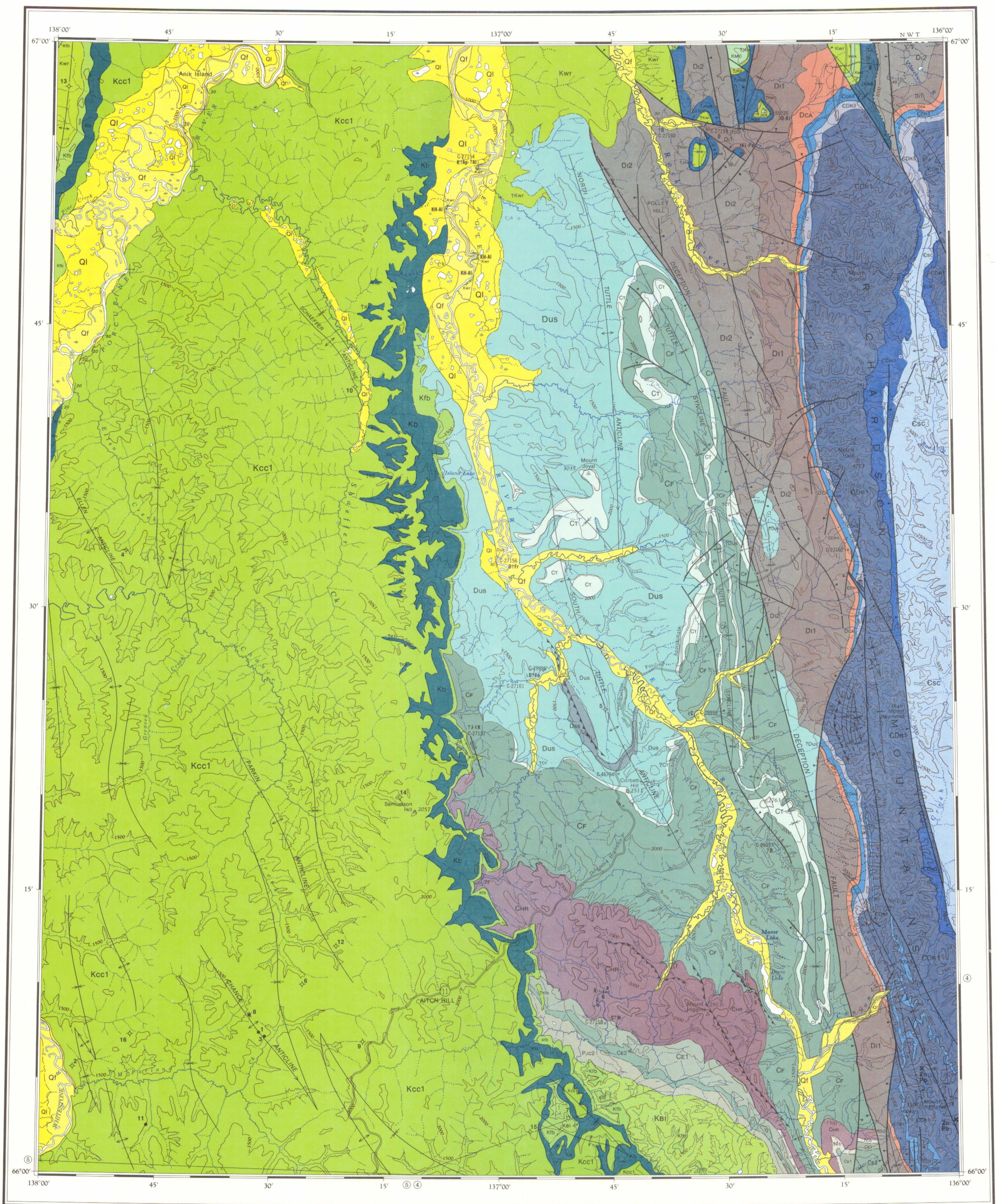
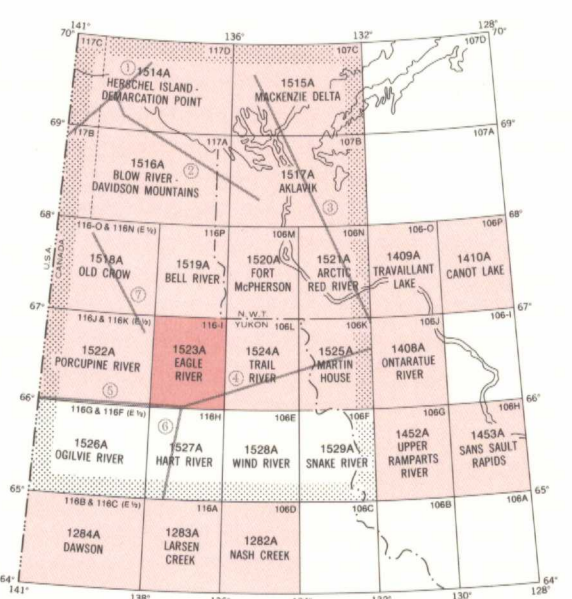
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base map at the same scale published by the Surveys and Mapping Branch in 1974

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

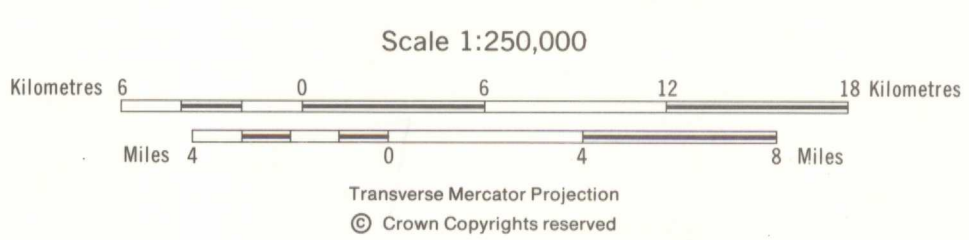
Magnetic declination 1981 varies from 35°16.0' easterly at centre of west edge to 35°48.8' easterly at centre of east edge. Mean annual change 6.0' westerly

Elevations in feet above mean sea level

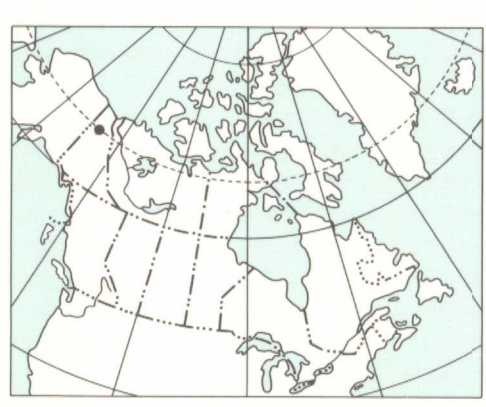


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MAP 1523A
 GEOLOGY
EAGLE RIVER
 YUKON TERRITORY



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THE STRUCTURE SECTION DIAGRAM AND GEOTECTONIC CORRELATION CHART FOR THE AREA COVERED BY MAPS 1514A TO 1529A ARE AVAILABLE SEPARATELY AS SHEETS 1530A AND 1532A

1523A