

CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES

Geological Survey of Canada



GEOLOGICAL MAPS OF YUKON TERRITORY AND NORTHWEST TERRITORIES:  
BLOW RIVER (117A), DAVIDSON MOUNTAINS (117B), DEMARCATIION POINT (117C)  
AND HERSCHEL ISLAND (117D)

by

D.K. Norris

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117 A, B (part), C (part), D

Blow River, Davidson Mountain, Demarcation Point, Herschel Island

D. K. Norris, 1977

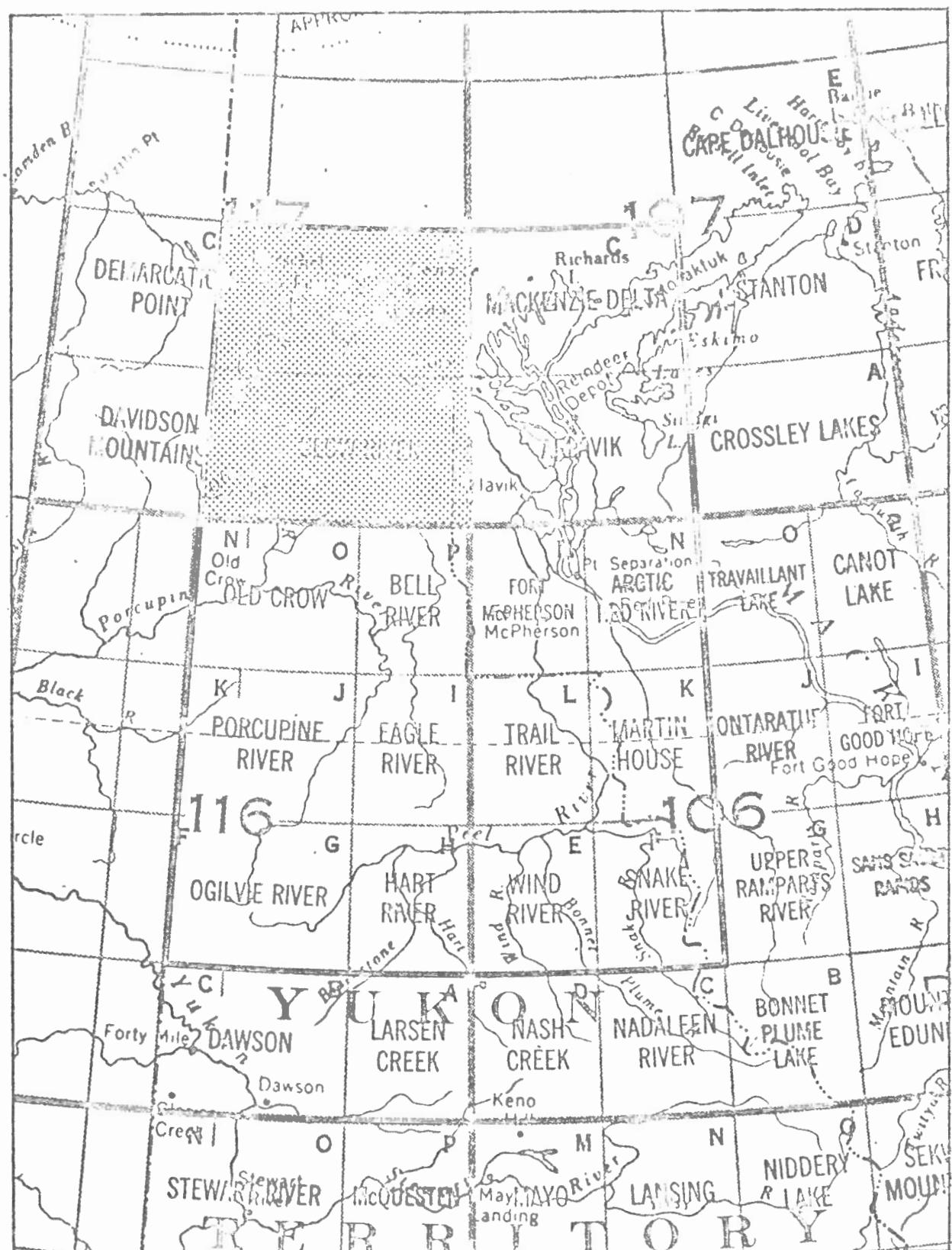
Acknowledgments

Geological synthesis based on field observations and/or paleontological determinations made by the following geologists, industry geological departments and university professors, listed alphabetically, with corresponding years of field activity where applicable: Geological Survey of Canada - E.W. Bamber, 1962; W.A. Bell; W.W. Brideaux; T.P. Chamney; L.D. Dyke, 1971, 1973; H. Frebold; W.S. Hopkins; O.L. Hughes, 1962; J.A. Jeletzky; E.W. Mountjoy, 1962; W.W. Nassichuk; B.S. Norford, 1962; A.W. Norris, 1962, 1970; D.K. Norris, 1962, 1969, 1970, 1971, 1972, 1973, 1975; A.E.H. Pedder; T.P. Poulton; R.A. Price, 1962; R.M. Procter, 1962; G.C. Taylor, 1962; E.T. Tozer; T.T. Uyeno; F.G. Young, 1970, 1971; R.K. Wanless. Industry geological departments - Texaco Exploration Canada Ltd., 1961; Triad Oil Company Ltd., 1959; Union Oil Company of Canada Ltd., 1969. University of Alberta - W.N. Stewart; University of Montreal - B.L. Mamet; University of Toronto - J.B. Waterhouse.

Schedule of Wells

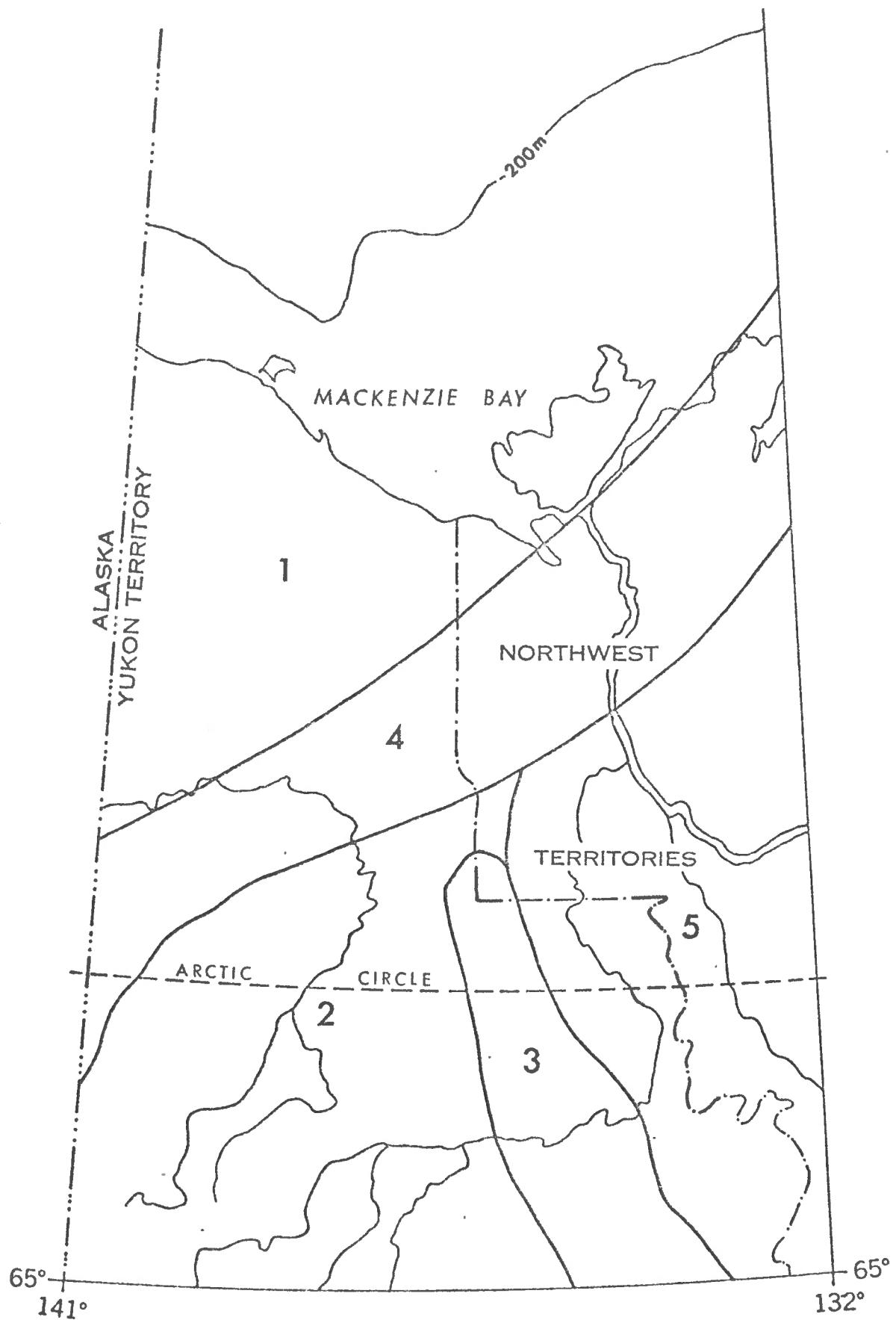
Name	Total Depth (metres)	Spudding Date	Status
1. IOE Blow River YT E-47	4,267	8/5/70	dry & abandoned
2. IOE Spring River YT N-58	2,133	7/1/71	dry & abandoned
3. Pacific Imp et al Roland Bay YT L-41	2,752	22/12/72	dry & abandoned
4. Chevron Canada Pex et al Fish River B-60	3,502	21/6/77	dry & abandoned

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



Geographic map of northern Yukon Territory and adjacent District of Mackenzie with the Operation Porcupine project area outlined and with Blow River (117A), Davidson Mountains (117B E/2), Demarcation Point (117C E/2) and Herschel Island (117D) Map-Areas identified.

Index map of the Operation Porcupine project area in northern Yukon Territory and adjacent District of Mackenzie, showing the five regions represented by the stratigraphic columns in the Composite Legend.



## Symbols

	Geological boundary
	Anticline, symmetrical, asymmetrical, overturned
	Syncline, symmetrical, asymmetrical, overturned
	Fault, contraction, teeth on upthrown side
	Fault, extension, solid circle on downthrown side
	Fault, transcurrent with inferred relative horizontal movement
	Location of boundaries, folds and faults is approximate; where assumed, line is broken; where concealed, dots alternate with dashes. For asymmetrical folds the long arrow points in direction of dip of axial surface.
	Bedding attitude; measured, estimated from aircraft
	Foliation attitude
	Lineament; sense of displacement, if any, unknown
	Facies change; approximate trace of interface
x	Outcrop or felsenmeer examined; no bedding attitude obtainable
55135	Fossil occurrence with GSC (or other) locality number
PeMi	Paleontological age
465 my	Apparent radiometric age
?Pjc2	Tentative formational assignment
01 02 03	Borehole; abandoned, suspended gas, suspended oil; number indicates order of drilling in each map area from spudding date
•	Pingo (NTS Map-Areas 107B and C only)
←Cu	Prospect, with mineral type
	Esker, ridges within esker complexes
	Drumlins and drumlinoid ridges; ice direction inferred, not inferred
116H5	Stratigraphic section; locus with GSC identification by NTS Map-Area
A ————— B	Line of structure section
m, nm	Lithotope; marine, non-marine
	Rock units not in contact (Composite Legend only)

Geological Time Symbols - Operation Porcupine

Period	Symbol	Age/Epoch	Symbol	Age/Epoch	Symbol	Age/Epoch	Symbol
Quaternary	Q	Holocene	Ho				
		Pleistocene	QP				
Tertiary	T	Pliocene	TP1				
		Miocene	TM				
		Oligocene	TO				
		Eocene	TE				
		Paleocene	TPa				
Cretaceous	K	Maastrichtian	KM				
		Campanian	KCa	Santonian	KSe		
		Santonian	KSa				
		Coniacian	KCo				
		Turonian	KT				
		Cenomanian	KCe				
		Albian	KA1				
		Aptian	KAp				
		Barremian	KBa				
		Hauterivian	KH	Neocomian	KN		
		Valanginian	KV				
		Berriasian	KBe				
Jurassic	J	Portlandian	JPo	Tithonian	JTi	Volgian	JV
		Kimmeridgian	JKi				
		Oxfordian	JO				
		Callovian	JC				
		Bathonian	JBt				
		Bajocian	JBj				
		Toarcian	JTo				
		Sinemurian	JS				
		Hettangian	JH				
Triassic	R	Rhaetian	RR				
		Norian	RN				
		Karnian	RK				
		Ladinian	RL				
		Anisian	RA				
		Spathian	RSp				
		Smithian	RSm				
		Dienonian	RD				
		Griesbachian	RG				
Permian	P	Dzhulfian	PD	Ochoan	PO		
		Kazanian	PKa	Guadalupian	PG		
		Ufimian	PU				
		Kungurian	PKu				
		Artinskian	PAr	Leonardian	PL		
		Sakmarian	PS	Wolfcampian	PW		
		Asselian	PAs				

Period	Symbol	Age/Epoch	Symbol	Age/Epoch	Symbol	Age/Epoch	Symbol
Pennsylvanian	Pe	Virgilian	PeV	Orenbergian	CO		
		Missourian	PeMi	Gzhelian	CG		
		Desmoinesian	PeD	Moscovian	CM		
		Atokan	PeA	Bashkirian	CB		
		Morrowan	PeMo	Namurian	CN		
Mississippian	M	Chesteran	MC	Visean	CV		
		Merameccian	MM	Tournasian	CT		
		Osagian	MO				
		Kinderhookian	MK				
Devonian	D	Famennian	DFa				
		Frasnian	DFr				
		Givetian	DGi				
		Eifelian	DEi				
		Emsian	DEM				
		Siegenian	DS				
		Gedinnian	DGe				
Silurian	S	Pridolian	SP				
		Ludlovian	SLu				
		Wenlockian	SW				
		Llandoveryan	SL1				
Ordovician	O	Ashgillian	OAs	Richmondian	OR		
				Maysvillian	OMy	Cincinnatian	OCi
		Caradocian	OCr	Edenian	OE		
				Barneveld	OB		
		Llandeilian	OLD	Wilderness	OW1	Mohawkian	OMk
				Porterfield	CP		
		Llanvirnian	OLv	Ashby	OAb		
				Marmor	OMm	Chazyan	OCh
		Arenigian	OAr				
		Tremadocian	OT	Whiterock	OWk		
Cambrian	C	Trempealeauan	CT			Canadian	OCa
		Franconian	CF				
		Dresbachian	CD				
		Albertan	CA1				
		Waucoban	CW				

499 GEOLOGICAL MAPS OF YUKON TERRITORY AND NORTHWEST  
TERRITORIES COMPILED BY D.K. NORRIS

This is an unedited geological synthesis of those parts of Yukon Territory and Northwest Territories covered by Blow River (117A), Davidson Mountains (117B), Demarcation Point (117C), and Herschel Island (117D) map-areas, with a composite legend, compiled at a scale of 1:250 000. Geology is based on field work by officers of the Geological Survey of Canada and of oil company and university geological departments between 1961 and 1975. The file consists of the four maps and seven pages of text comprising acknowledgments, two index maps, schedule of wells, table of geological symbols, table of abbreviations of geological time terms and a revised correlation table.

The items are available for viewing at all the Geological Survey of Canada libraries by appointment with the librarians. Copies may be obtained at the user's expense by application to Riley's Data Share International Limited, 631 - 8th Avenue S.W., Calgary, Alberta, T2P 0W9.