LEGEND		SUNVE CONTROL OF THE PROPERTY	
PLEISTOCENE AND RECENT		GEOLOGICAL SURVEY OF CANADA	
Sand, gravel	PRELIMINARY SERIES  113°00′ 45′ 30′	DEPARTMENT OF ENERGY, MINES AND RESOURCES  15' 112°00' 45	30′ 15′ 111°00′
12 Diabase, gabbro (sills, dykes)	66° 00′ Unmapped Ad 1500 1694	Aa	112 112 12 12 12 12 12 11 12 66° 00'
GOULBURN GROUP (8-11)	12/1 Ba 2g 12 12 12 12 12 12 12 12 12 12 12	1000 Aa 1000 Aa	12° C 8 12 12 12 12 12 12 12 12
Includes units 8, 9, and 10 and younger rocks at the north end of Contwoyto Lake	C (705	Aa 12 45 12	12 12 12 12 11 12 12
Purple, buff, pink, white, or greenish quartzite with local thin quartz jasper pebble conglomerate; minor carbonate; interbedded greenish greywacke and	Ba 2g Rupus B	12 12 Aa X Ab	12 C 12 12 12 12 12 12 12 12 12 12 12 12 12
argillite near the top	Ad ROCK	CINGHORSE 1200 1200 C	Ac Ab 12 11 11 12 12 12 12 12 11
Purple to green argillite, concretionary with minor carbonate near the top	12 Ad 8 8 13 (6) 12 13 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	1479 (a) 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10	12 12 12 12 12 12 12 12 12 12 12 12 12 1
Interbedded yellow-green argillite and white, green, or brown, mottled quartzite; local conglomerate with carbonate cement near the base, minor carbonate rocks	Ad 12 C 1 12 C 1 (0)	9	Aa X 7 W O 11 66a
7 Intermediate aphanitic dyke		12 10 10 10 10 10 10 10 10 10 10 10 10 10	12 12 Aa 11 11 11 11 11 11 11 11 11 11 11 11 11
YELLOWKNIFE GROUP		LAKE 10 12 57 9 9 1 1586 12 12 12 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15	C X 88 A8 12 A8 36 A8 36 A8 36 A8 36 A8 36 A8
6a, schist, greywacke, phyllite with minor greenschist and amphibolite (may include some unit 2 near Kaye Lake);	1713: 50	Ac 655 12 1600 112 : Ab 660 A	1500 83 Ac
6b, slate, argillite, greywacke, siltstone with minor greenschist, quartzite and carbonate rocks	12 Rapidi 12	C 601 AC 12 12 12 1585 12	162 1523 147 20 55 12 12 12 12 12 13 12 13 12 13 12 13 12 13 13 12 13 13 13 13 13 13 13 13 13 13 13 13 13
3a, schist, greywacke, phyllite with minor greenschist; interlensed amphibolite accompanied by gossan;	45' Ba 12 1433 Ac	Ac Ba 12 C Aa Aa Aa Aa	12 Aa 3a 12 3b 12 Ab 12
3b, slate, argillite, greywacke, siltstone with minor greenschist;  Amphibolite, gabbro,	65 Ad 1558: 2075 m.y. Ac . Ac . X  C A 7/12  Ba AC	155 C X 75 N Ac	3a B Concession 12 3a 12 12 × 12 × 12 × 12 × 12 × 12 × 12 ×
by gossan equivalent to 2)	70 Ac 600 X Fuz 93	Ac 3a 12 Ac 85 Ba Ac Ba X Ba	Ba 12 15272 12
2 2a, amphibolite, some pillowed basic volcanic rocks and quartz- amphibole and quartz-biotite 4 Conglomerate composed chiefly of granitic and quartzite boulders,	Unmapped Lake Ac 12 12 1550 2350 m.	785 3a	Ba 3b 188 12 12 11 12 11 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13
gneiss, minor agglomerate; cobbles and pebbles in 2b, quartz-biotite and quartz- a soft green schistose amphibole gneiss, some marble matrix	Ab 1390: AB C Ac 3a	13 12 3 80 V	6a 857 2b 12
and calc-silicate rocks; 2c, schist, amphibolite (may be	330V 125 AB 1355 AB 1355 75	LeAnn   6a   1500 80   6a   Ac   6a	1654 60 2d 450 C 1a 6a? 6a? (6a)
in part equivalent to unit 6); 2d, interlensed greenstone and acid volcanic rocks, tuff, quartz-	Ab 60 38 Ac 88 65 X	6a ×80 85 12	85 2d s 12 80 80 80 80 80 12 33 Bc 12 33 Bc 12 33 33 Bc 12 33 33 33 33 33 33 33 33 33 33 33 33 33
amphibole and quartz-biotite gneiss, minor agglomerate; 2e, diorite gneiss; some	Ba 80 6a 12 70 85	6a / 2b 80	85 6a 2b 1a 12 2f
amphibolite and diorite; 2f, anthophyllite-cordierite-	1b 75 1b × 6a 12	75 m 1800 2a 65 2d 2d - 1700 70 m 2b 65	2b 75 30 25 12 12 12 12 12 12 12 12 12 12 12 12 12
garnet gneiss, amphibolite, some garnetiferous granitoid gneiss in part with amphibole	3a 12 12 80 121 80	2a 2b 2/3 6a 40 6a 2d 2d	1a
and carbonate; 2g, pillowed basic volcanic rocks, green- stone; some greenschist;	10 3a 41350 41350 4350 4350 4350 4350 4350 4350 4350 4	SS AC CONTRACTOR OF THE PROPERTY OF THE PROPER	Ae 1a 12 C 80 AB 12 C 12 A 12 C 12 A 12 A 12 C 12 A 12 A
minor felsite?, quartzite and biotite schist	30' 10 10 10 10 10 10 10 10 10 10 10 10 10	2a 12 12 1528 12 1528 2d 75 2 1a	2 60 Ab
SILICEOUS GNEISSES - PRE-YELLOWKNIFE GROUP (?)  1 la, eastern unit; leucocratic biotite-quartz and some	80 6a 75 12 75 Acc 2a 12	2b 25 75 1600 75 75 1600 75 75	2b 05 1 6a?
amphibole-quartz gneiss, granitic gneiss, granite, quartz monzonite, minor calc-silicate rocks; 1b, western unit; quartzite, dark siltstone, banded siliceous rocks, phyllite,	1b) 3a (50 Khye) 6a (6a (6a (6a (6a (6a (6a (6a (6a (6a	Aso 758 Aso Ba Olga:	1800 C Ac Ac
some slate, argillite, gneiss, schist and amphibolite	1400 12 2a 2a 6a N L C	Ad 1 1a 70	12 1 25 12 1 12 1 12 1 12 1 12 1 12 1 1
PLUTONIC ROCKS  Hybrid rocks; Aa, granitic rocks containing few to many	6a / 79 / 79 / 79 / 79 / 79 / 79 / 79 / 7	6b 15t. And	Ad
A schlieren, inclusions or bands of biotite schist or gneiss (with garnet amphibolite gossan remnants in the north only); Ab, lit-par-lit gneiss; Ac, schist and gneiss containing	68	1300: 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C C C C C C C C C C C C C C C C C C C
numerous pegmatite or quartz monzonite dykes; Ad, south of Olga Lake chiefly diorite, granodiorite, amphibolite, some greenstone and hornblende gneiss intruded by leucocratic	1b 12 2c Ac 35 6a	Aa 1400	12 12 2d 2d 600
granitic rocks; elsewhere includes in addition some felsite? quartzite, and greenschist intruded by leucocratic granitic	1b 3a × 75./ 6a 6a 6a	65 85 2e 1a Ad Rapids	Ab 797 Ab 1700 Ab Ab Ab
rocks; Ae, greenstone and quartz biotite gneiss intruded by quartz monzonite; Af, sheared mesocratic chloritic rock	6a Ac Ac 70 70 70 70 70 70 70 70 70 70 70 70 70	6a 6a 685 Aa 20 20 1a	Ad 1600 (C) (Ab) (700)
Melanocratic Plutonic rocks; Ba, hornblende diorite, hornblende-biotite granodiorite, hornblendite, some altered gabbro and pyroxenite; Bb, coarse-grained	Ac 6a	Ga C C Aa 26 Ad	A PORT OF THE PROPERTY OF THE
hornblende syenite; Bc, biotite- and hornblende- biotite-augen-gneiss	6a Ac 12 12 Manufulus Ac 12 12 Ac 12	12 70 12 6a 55 70	Año
C Leucocratic Plutonic rocks; biotite-quartz monzonite, biotite granodiorite, minor granite	15 2 2 2 60	Aa Aa	1500
	2660 m.y.  Aa  757  707  707  707  707  707  707  70	65 66 80 X X X X	Ab Ab
Geological boundary (defined or approximate, assumed)	28 W2 12 12 80 18 85 80 80 80 80 80 80 80 80 80 80 80 80 80	12 6a 6a 90 70 Ab 85 6a Ab 85 6a	TABLE OF THE PROPERTY OF THE P
Bedding, tops known (inclined, vertical, overturned, tops determined from pillow lava)	Ad 2g 2g 66 60 60 65 60 60 60 60 60 60 60 60 60 60 60 60 60	6a 35 57 Ab 70 Ab	
Bedding, tops unknown (horizontal, inclined, vertical, dip unknown) + / / / Schistosity, gneissosity, foliation (inclined, vertical, dip unknown) / / /	35 55 A A A A A A A A A A A A A A A A A	980 6a 6a 65 12 70 12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	C C C C C C C C C C C C C C C C C C C
Fault (approximate, assumed)	Ad Ad Ad Ad Ad Ad	1229 70 30 × 70 × 70 × 70 × 70 × 70 × 70 × 70	1468 2
Anticline (approximate)	C Ac Ac Ac Ac Ac Ac Ac	6a (12) (12) (13) (14) (15) (14) (15) (15) (15) (15) (15) (15) (15) (15	Ab
Glacial striae (direction of ice-movement known, unknown)	Ad 12 28 6a	12 Ab 12 12 12 12 12 12 12 12 12 12 12 12 12	AL CONTRACTOR AND
Mineralized zone	50 75 75 75 75 75 75 75 75 75 75 75 75 75	Ab 12 0 66 7 Ab 137	Ab T-
Mineralized float×		15 Ab 172 10 10 10 10 10 10 10 10 10 10 10 10 10	C C
MINERALS Arsenopyrite asp	Ad 122 125 6a	1a 2 Ab 1 12 759 759 759 759 759 759 759 759 759 759	1369± 1369±
Chalcopyrite cp	65° 00′ Ad 35 × 170 1	Ab	65° oc
Gold Au	113° 00′ 45′ Adjoins Map 16-1958, "Fort Enterprise		5' Adjoins Map 977A, "Lac de Gras" 15' Ill' 00' Printed by the Surveys and Mapping Branch
Geology by H. H. Bostock, 1964, 1965, and L. P. Tremblay, 1964, 1965 on latitude 65°30' N to 66°00' N and longitude 111°00' W to 111°30' W	Published 1967, the Centennial of Canadian Confederation	MAP 8-1966 PAPER 66-24 GEOLOGY	MAP LIBRARY   CARTOTREQUE  Printed by the Surveys and Mapping Branch Copies of this map may be obtained from the Director, Geological Survey of Canada, Ottawa
To accompany GSC Paper 66-24 by H. H. Bostock		ITCHEN LAKE	ESIC CIST 3401 861 76K
Geological cartography by the Geological Survey of Canada, 1966	The state of the	DISTRICT OF MACKENZIE	OCT 8 1996 , C5 86H 76E 76F
Base-map from 1/250,000 scale maps (Point Lake, East Half and	The state of the s	Scale 1:253,440  1 inch to 4 miles  Miles 4  0  4  8	Earth Sciences Secteur des sciences  1956  12 Mil Sector de la Terre  86 A 76 D 76 C
Contwoyto Lake, West Half) compiled and drawn by the Army Survey Establishment, R. C. E., 1959-60 and 1963 respectively			12 Milbector de la lerre  On VSC  86 A 76 D 76 C
Geographical names subject to revision	And I have been a second	Magnetic declination 1966 varies from 35° 25' easterly	OF ENERGY MALL NATIONAL TOPOGRAPHIC SYSTEM REFERENCE
		at centre of west edge to 33°40' easterly at centre of east edge. Mean annual change 8.5' westerly	GEOGRAPHICAL DISTRICT OF MACKENZIE
612-Cao. C	INDEX MAP		FEB 29 1968