

ASSESSMENT REPORTS

060524

MAP No. 105-D-10

TYPE OF WORK:

Geol, IDH

REPORT FILED UNDER

Whitehorse Copper Mines Ltd.

DATE PERFORMED

1973

DATE FILED: June, 1973.

LOCATION - LAT.

60° 34'N

Whitehorse Area, Yukon

LONG.

134° 56'W

CLAIM Nos.

Black Cub South Zone

JIM Co. JIM 11-14 Y 85339-342 Lot 550, 554-5, 561

WORK DONE BY

D. Tenny and V.V. Jutronich P.Eng.

WORK DONE FOR

Whitehorse Copper Ms. I.

REMARKS

Geology, DDH sections and cross sections of the Black Cub South

open pit which produced 200,000 tons of 1.3% Cu in 1970-71 from magnetite serpentine skarn deposit. The mineralization occurs within

400 feet of diorite to the NE and NW.

WHITEHORSE COPPER MINES LTD.

Appendix "A" to the application of Whitehorse Copper Mines Ltd. executed on July 11, 1973  
Appendix "B" to the application of Whitehorse Copper Mines Ltd. executed on July 11, 1973

BLACK CUB SOUTH

The Black Cub South zone is located seven miles southeast of McCrae from which it is accessible by a good haulage road.

The property is held solely by Whitehorse Copper Mines Ltd. as claims Jim 11 to 14 (Y 85337 to 85342) and surface lease #1.

Two hundred thousand tons of ore grading 1.36 Cu were mined by open pit mining during 1970 - 71. Bornite and chalcocopyrite occur in a magnetite serpentine skarn which is part of a skarn, limestone, quartzite, greywacke, sequence striking southeasterly and dipping to the southwest. The mineralization occurs within four hundred feet of diorite to the northeast and northwest.

Two holes have been proposed to locate and test the favourable diorite-sediments contact at depth.

<u>Section</u>	<u>Depart</u>	<u>Bearing</u>	<u>Dip</u>	<u>Length</u>
34 + 00 E	22 + 20 N	N	45°	480'
34 + 00 E	18 + 00 N	N	62½°	725'

The area is mainly overburden covered and the length of the holes may vary depending on the depth at which diorite is reached. Hole #2 will be contingent on hole #1.

signed

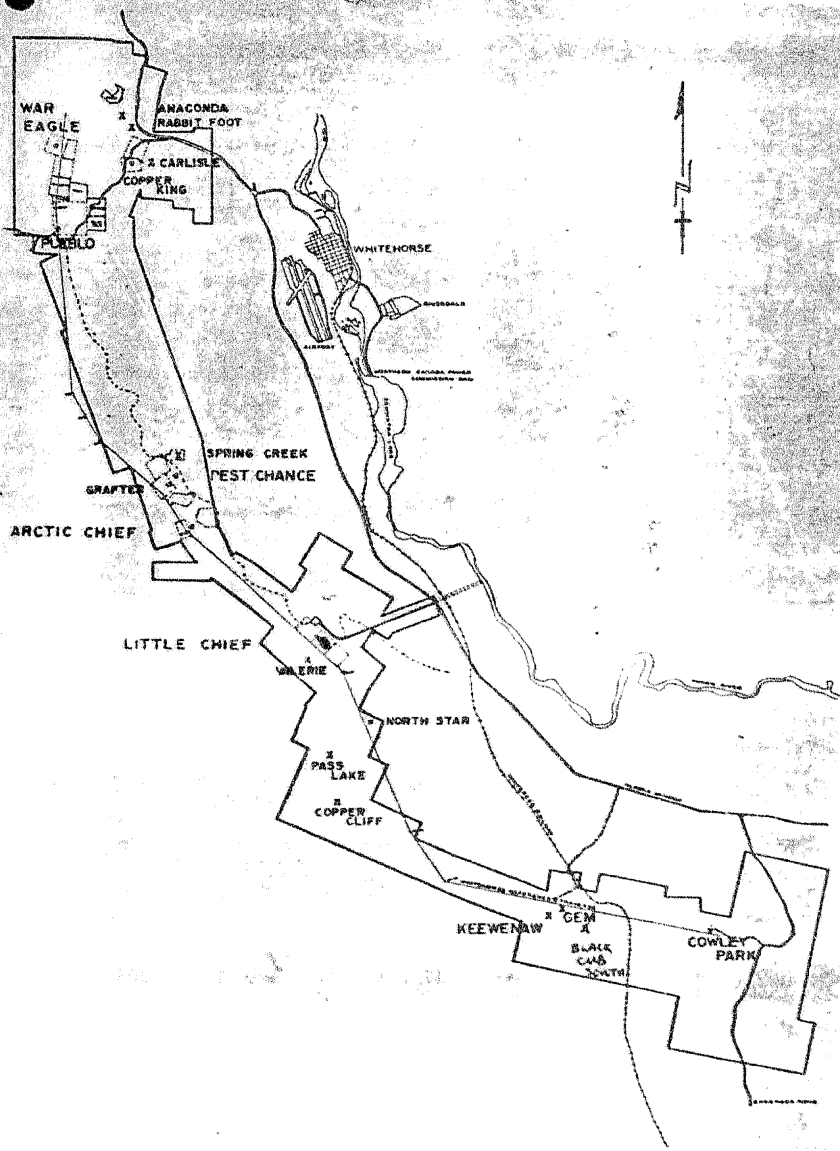
D. Tenney  
D. Tenney  
Chief Geologist

signed

V.V. Strenick  
V.V. Strenick, P. Eng.  
General Manager

June 1<sup>st</sup>, 1973

Appendix 'A' to the  
 application of Whitehorse  
 Copper Mines Ltd. executed  
 on July 11, 1973



NEW IMPERIAL MINES LTD.  
 MINES CLASS LOCATIONS PLAN  
 SCALE: 1" = 1 MILE  
 DATE: 1973

RETAILS

JIM No. 11 M.C.  
Y 85339  
LOT 550

JIM No  
Appendix "A" to the  
application of Whitehorse  
Copper Mines Ltd. executed  
on July 11, 1973

JIM No. 13 M.C.  
Y 85341  
LOT 554

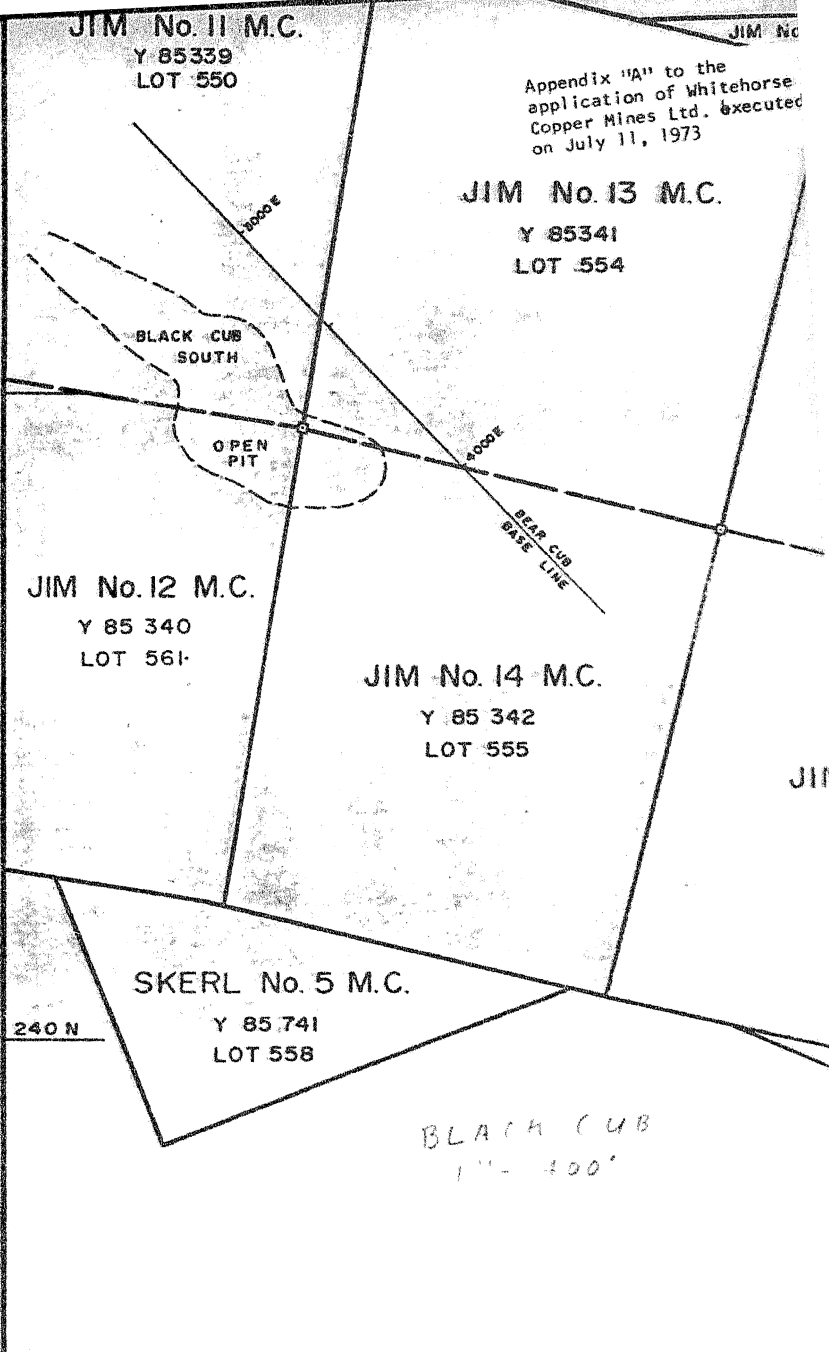
JIM No. 12 M.C.  
Y 85 340  
LOT 561

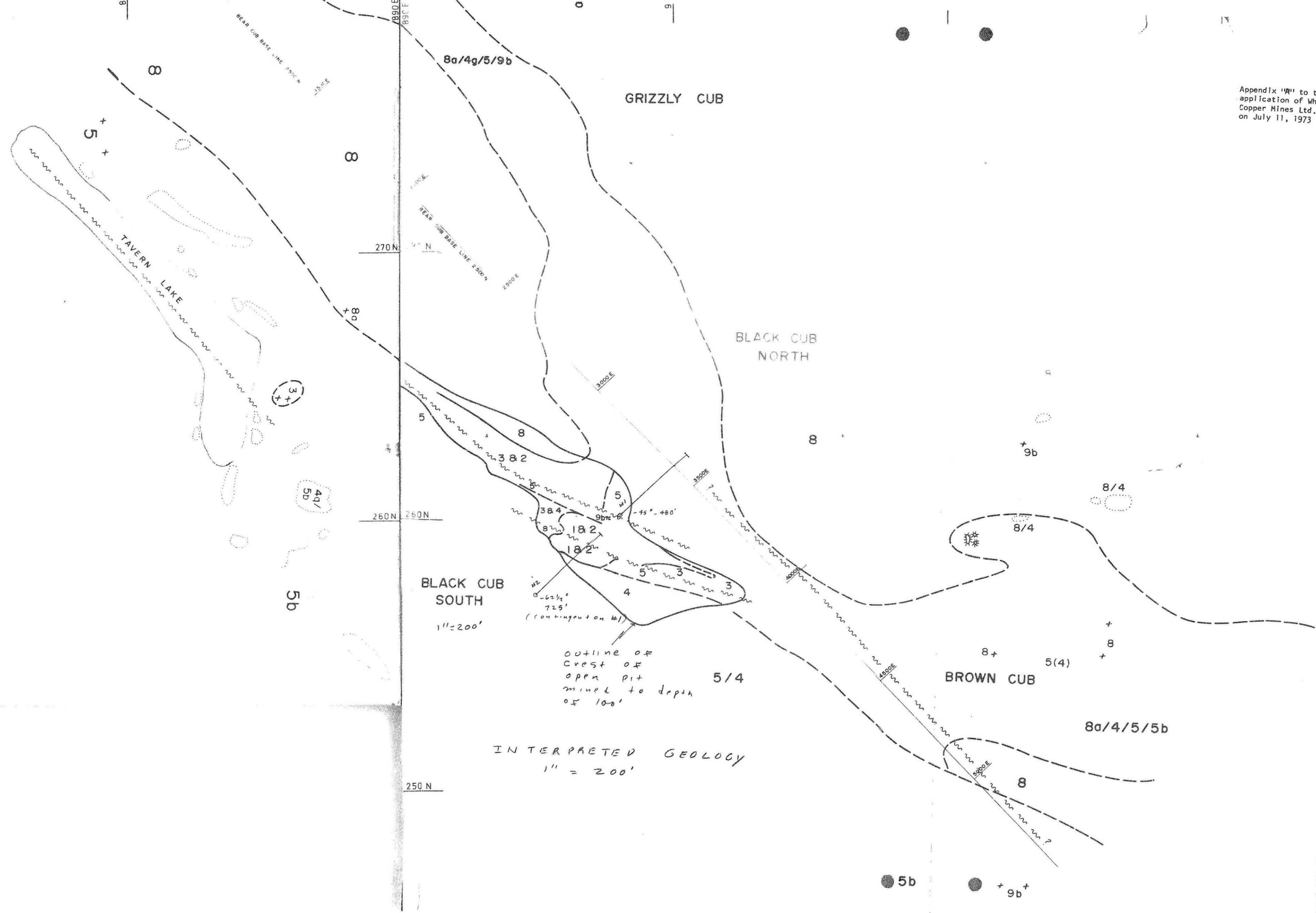
JIM No. 14 M.C.  
Y 85 342  
LOT 555

SKERL No. 5 M.C.  
Y 85.741  
LOT 558

240 N

BLACK CUB  
1" = 100'





BLACK CUB SOUTH

1" = 200'

outline of crest of open pit mined to depth of 100'

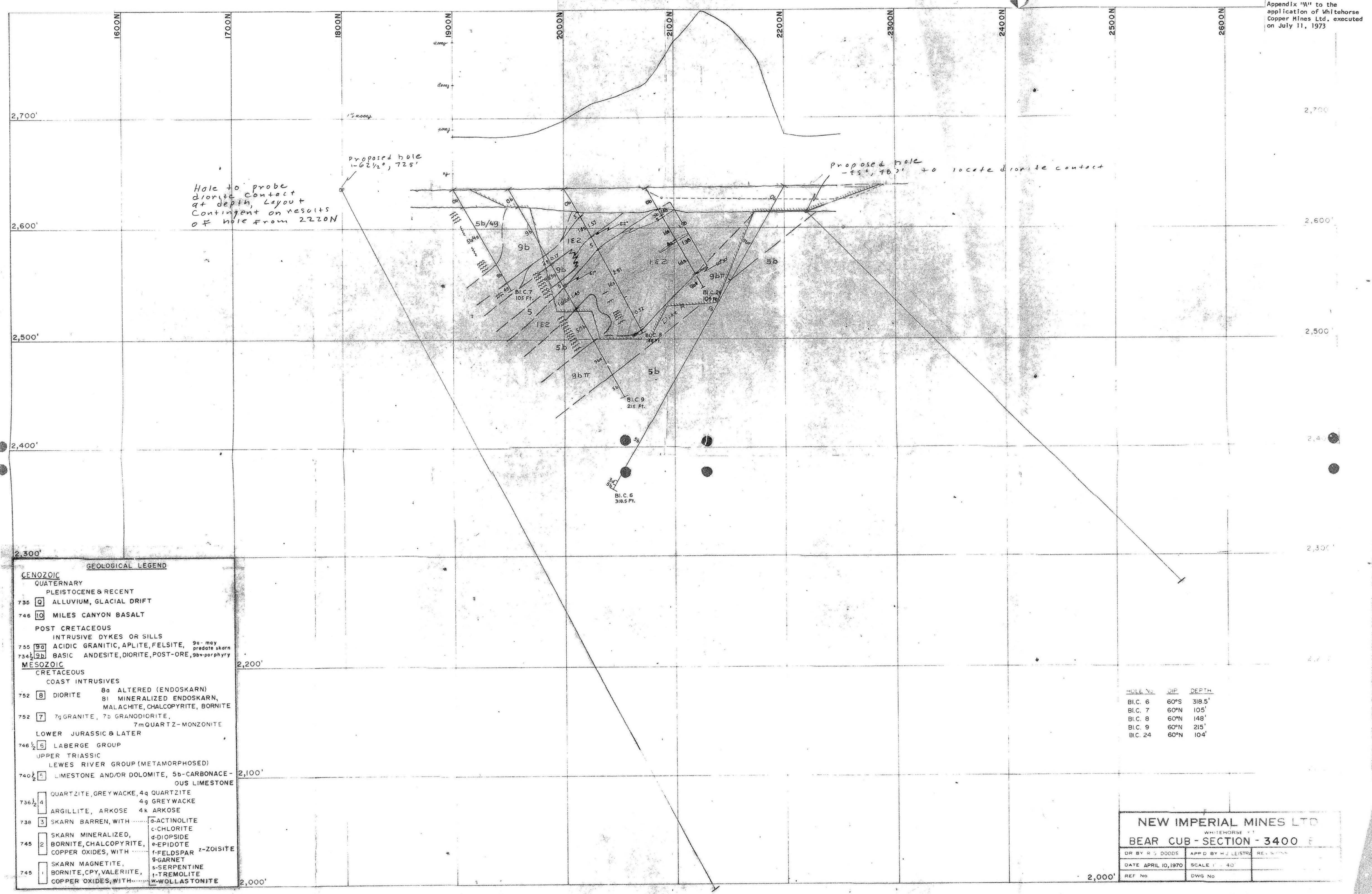
INTERPRETED GEOLOGY  
1" = 200'

BROWN CUB

8a/4/5/5b

5b

9b



Hole to probe diorite contact at depth. Layout contingent on results of hole from 2220N

Proposed hole - 15°N, 70° E to locate diorite contact

**GEOLOGICAL LEGEND**

**CENOZOIC**

QUATERNARY

PLEISTOCENE & RECENT

735 [Q] ALLUVIUM, GLACIAL DRIFT

746 [B] MILES CANYON BASALT

POST CRETACEOUS

INTRUSIVE DYKES OR SILLS

755 [9a] ACIDIC GRANITIC, APLITE, FELSITE, 9a - may predate skarn

734 [9b] BASIC ANDESITE, DIORITE, POST-ORE, 9b - porphyry

**MESOZOIC**

CRETACEOUS

COAST INTRUSIVES

752 [8] DIORITE 8a ALTERED (ENDOSKARN)  
8b MINERALIZED ENDOSKARN, MALACHITE, CHALCOPYRITE, BORNITE

752 [7] 7g GRANITE, 7d GRANODIORITE, 7m QUARTZ-MONZONITE

LOWER JURASSIC & LATER

746 1/2 [5] LABERGE GROUP

UPPER TRIASSIC

LEWES RIVER GROUP (METAMORPHOSED)

740 1/2 [5] LIMESTONE AND/OR DOLOMITE, 5b-CARBONACEOUS LIMESTONE

736 1/2 [4] QUARTZITE, GREYWACKE, 4q QUARTZITE  
4g GREYWACKE  
ARGILLITE, ARKOSE 4k ARKOSE

738 [3] SKARN BARREN, WITH 3a-ACTINOLITE  
3c-CHLORITE

745 [2] SKARN MINERALIZED, BORNITE, CHALCOPYRITE, COPPER OXIDES, WITH 2a-EPIDOTE  
2b-FELDSPAR  
2c-ZOISITE

745 [1] SKARN MAGNETITE, BORNITE, CPY, VALERITE, COPPER OXIDES, WITH 1a-SERPENTINE  
1b-TREMOLITE  
1c-WOLLASTONITE

HOLE No.	DIP	DEPTH
B.I.C. 6	60°S	318.5'
B.I.C. 7	60°N	105'
B.I.C. 8	60°N	148'
B.I.C. 9	60°N	215'
B.I.C. 24	60°N	104'

**NEW IMPERIAL MINES LTD**  
WHITEHORSE Y.T.

**BEAR CUB - SECTION - 3400 E**

DR BY R.S. DODDS	APP'D BY H.J. LEISTRUP	REV. 1/73
DATE APRIL 10, 1970	SCALE 1" = 40'	
REF No.	DWG No.	