

BEAR LAKE PORPHYRY COPPER DEPOSIT

860368

BRITISH COLUMBIA

NTS 94-D-2/W

Summary

The Bear Lake porphyry copper, molybdenum deposit is located 150 km. north of Smithers, B.C. in an area of rapidly advancing infrastructure (roads, railroads, power). The Bear Lake property overlies a multiphase intrusive complex varying in composition from monzodiorite to quartz-feldspar porphyry of granitic composition and ranging in age from Late Cretaceous to Tertiary. This intrusive complex intrudes volcanics belonging to the Takla (Triassic) and Hazelton (Jurassic) Groups of rocks.

Porphyry style chalcopyrite and molybdenite mineralization occurs within the monzodiorite and sometimes within the quartz feldspar porphyry dikes usually in association with quartz veins and veinlet filled fracturing within the intrusives. In addition, chalcopyrite and molybdenite has been observed within the hornfelsed envelope of volcanics for some distance away from the intrusive. Of the ten drill holes drilled on the property (1974), the three most southerly located holes returned the following values:

<u>Drill Hole</u>	<u>Intersection</u>	<u>Cu %</u>	<u>Mo %</u>
54303	460 ft.	.23	.05
54308	531 ft.	.27	.061
54304	484 ft.	.19	.035

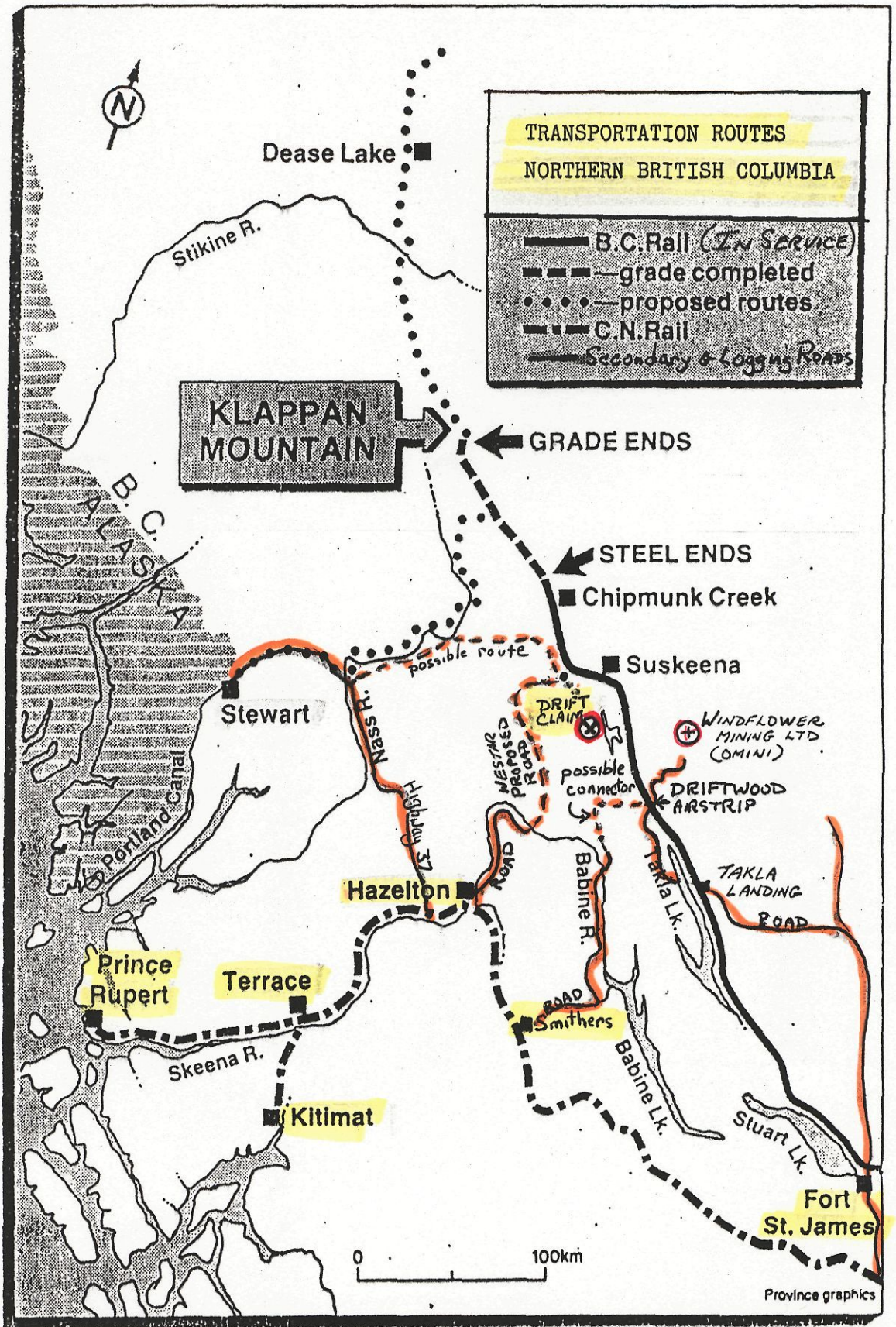
The intrusive which is mapped as extending another 450 meters to the south of the above listed drill holes remains untested. Drill holes 54304 and 54308 are 200 meters apart and if the remaining southern portion (650 meters plus) of the intrusive is found to be mineralized a substantial tonnage of Cu, Mo, ore could be delineated. An area 650 m by 300 meters in width and perhaps 200 meters in depth could easily carry a reserve of 100 million tonnes of an expected grade of perhaps .3% copper or better and .05% Mo. Anomalously high I.P. response (Frequency effect) over the same area with high copper and molybdenum geochemical values from soils appear to confirm the southerly extension of the mineralization. Any extension of the mineralization into the volcanics would also add to the estimated tonnages available.

The following is a list of British Columbia copper producers indicating their published reserves

Gibraltar (year end 1990)	180 million tons	.313% Cu,	.009% Mo.
Princeton Mining (year end 1989)	47.5 million tons	.45% Cu	
Afton Mining (year end 1989)	23.4 million tonnes	.46% Cu,	.011 oz. Au
Highland Valley Copper (year end 1989)	776.5 million tonnes	.41% Cu,	.0072 % Mo.

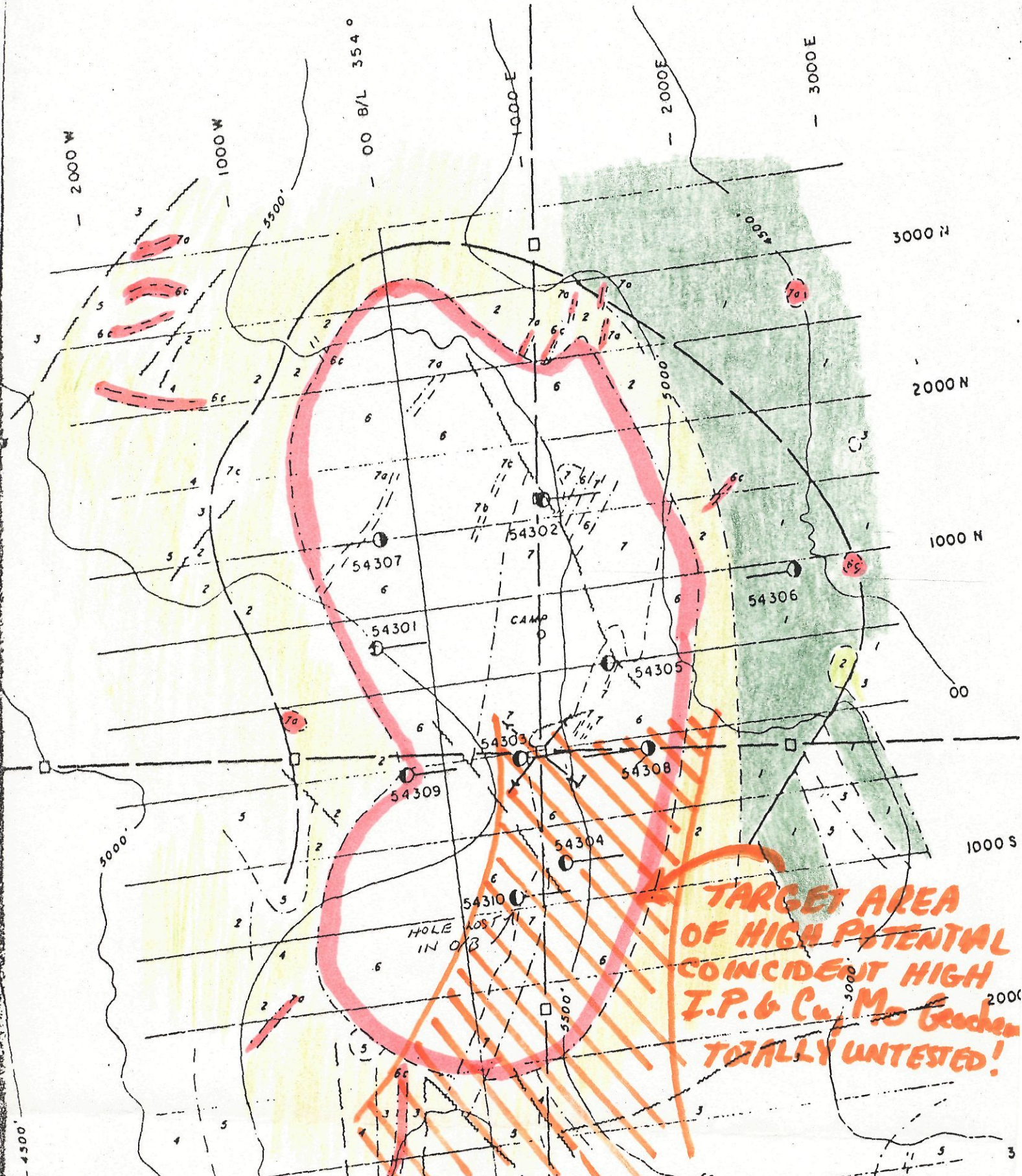
In consideration of the above and because of the very limited testing previously carried out on the Bear Lake Porphyry (10 drill holes), further drill testing is recommended on this well mineralized porphyry system.

G. Ryznar, PEng.



4W)

BEAR
(5N)



**TARGET AREA
OF HIGH POTENTIAL
COINCIDENT HIGH
I.P. & Cu Mo Grades
TOTALLY UNTESTED!**

Canadian Nickel Company Limited

Copper Cliff, Ontario
POM 1NO

GEOLOGY MAP

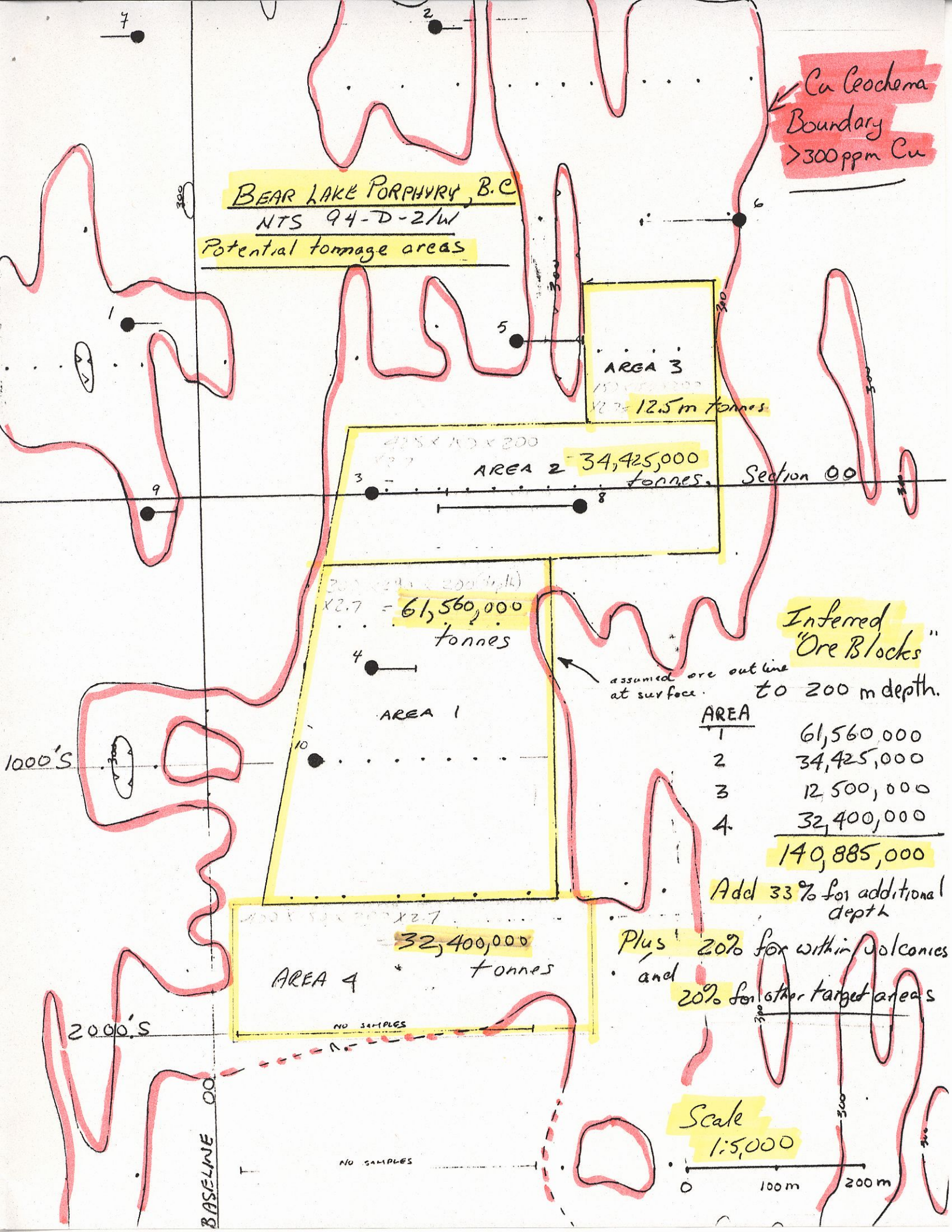
TERTIARY & UPPER CRETACEOUS 6. Intrusives
JURASSIC 2. HAZELTON VOLC.
TRIASSIC 1. TAKLA BASALS

SHEET
FIGURE
1

Project: BEAR 1-4 CLAIMS FORMER NOW DRIFT CLAIM.		Area: OMINECA MINING DIVISION B.C.	
Supervisor: E J DEBICKI	Instrument:	Survey date:	
Compiled by: P. PETO, R. ARTHUR	Drawn by: D. WALSH	Date drawn: May 28, 1982	Revised: Nov. 19, 1982
Scale: 1 : 10,000	Scale 1:10,000 0 100m. 200 300m.	N.T.S. 94 D 2W	

Cu Geochem Boundary
 >300 ppm Cu

BEAR LAKE PORPHYRY, B.C.
NTS 94-D-2/W
 Potential tonnage areas



AREA 3
 175 x 200
 X2.7 = 12,500 tonnes

425 x 100 x 200
 X2.7 = 34,425,000 tonnes

300 x 200 x 200 (4pk)
 X2.7 = 61,560,000 tonnes

400 x 200 x 200 X2.7
 = 32,400,000 tonnes

Section 00

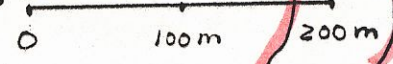
Inferred "Ore Blocks"
 assumed ore outline at surface to 200 m depth.

AREA	Tonnage
1	61,560,000
2	34,425,000
3	12,500,000
4	32,400,000
<hr/>	
	140,885,000

Add 33% for additional depth

Plus 20% for within volcanics
 and 20% for other target areas

Scale
 1:5,000



BASELINE 00

NO SAMPLES

NO SAMPLES

1000'S

2000'S

300

300

300

300

7

2

5

6

1

9

3

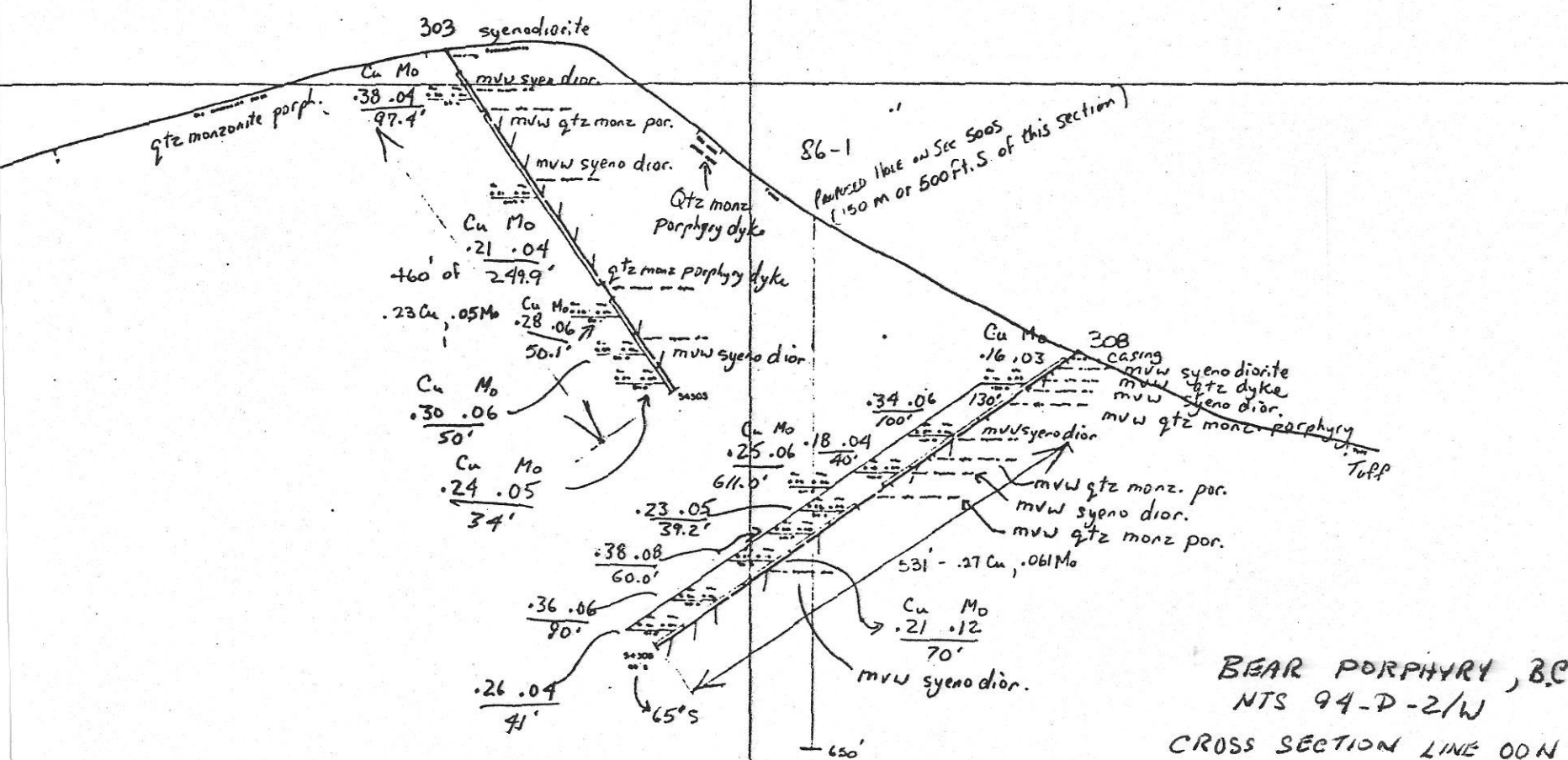
8

4

10

AREA 1

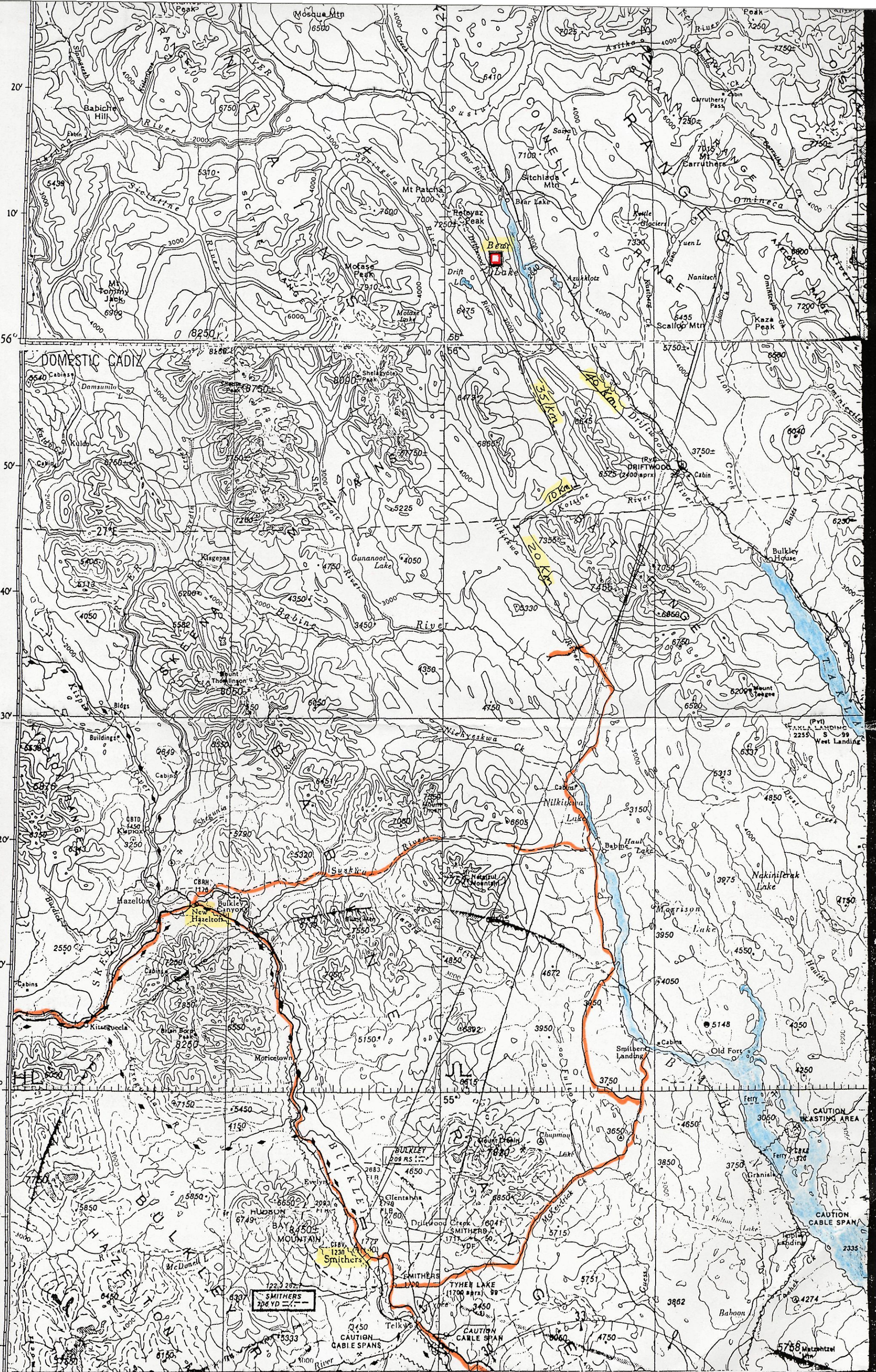
assumed ore outline at surface to 200 m depth.



BEAR PORPHYRY, B.C.
 NTS 94-D-2/W
 CROSS SECTION LINE 00N
 DRILL HOLES 54303, 54308

Hole #8
 284% Cu .065% Mo
 471'

Scale 1" = 200'
 0 200'

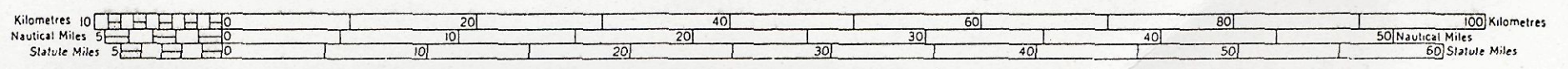


(Joins Prince Rupert-Stewart 103 N.E.)

ELEVATIONS IN FEET

(Joins Ocean Falls-Ootsa Lake 93 S.W.)

ELEVATIONS IN FEET



SCALE 1:500,000