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DRILLING AT CASSIAR MINE
1984 ASSESSMENT REPORT FOR THE TISH GROUP
LIARD MINING DIVISION
Claims: Tish, 1, 2, Fred 1-4, Goat 2,
Cirque 3, 4, Mineral Lease M2

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,628

N.T.S.: 104P/5
Latitude: 59°19'N
Longitude: 129°51'W
Author: I.A. Lyn

Owner and Operator:
Brinco Mining Limited

Date: April 1985

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1.0 INTRODUCTION

This report describes the drilling of a 622 m diamond drill hole into the McDame Asbestos deposit at Cassiar. This is part of a continuing programme to define the deposit which was first discovered in 1980. The single intersection of this hole, 200 m from the nearest previous intersection in the McDame deposit, has considerably extended the known deposit.

2.0 LOCATION AND ACCESS

The Cassiar mine is located in northern British Columbia, 80 kilometers south of the Yukon border (Fig. 1). The terrain is mountainous and rugged, the mine being on the crest of a ridge at approximately 6000' elevation. Cassiar town lies on a valley floor 4.5 km south at 3600' elevation. It is linked to Highway 37 by a 14 km access road. The nearest town with scheduled air service is Watson Lake, 157 km by road from Cassiar.

Well maintained private roads connect the town to the pit. The site for Hole 84-1 was southeast of the pit area and a 488 m road was constructed over a waste tip to the drill site by mine personnel.

3.0 PROPERTY DEFINITION

The following claims form the Tish Group (Fig. 2):

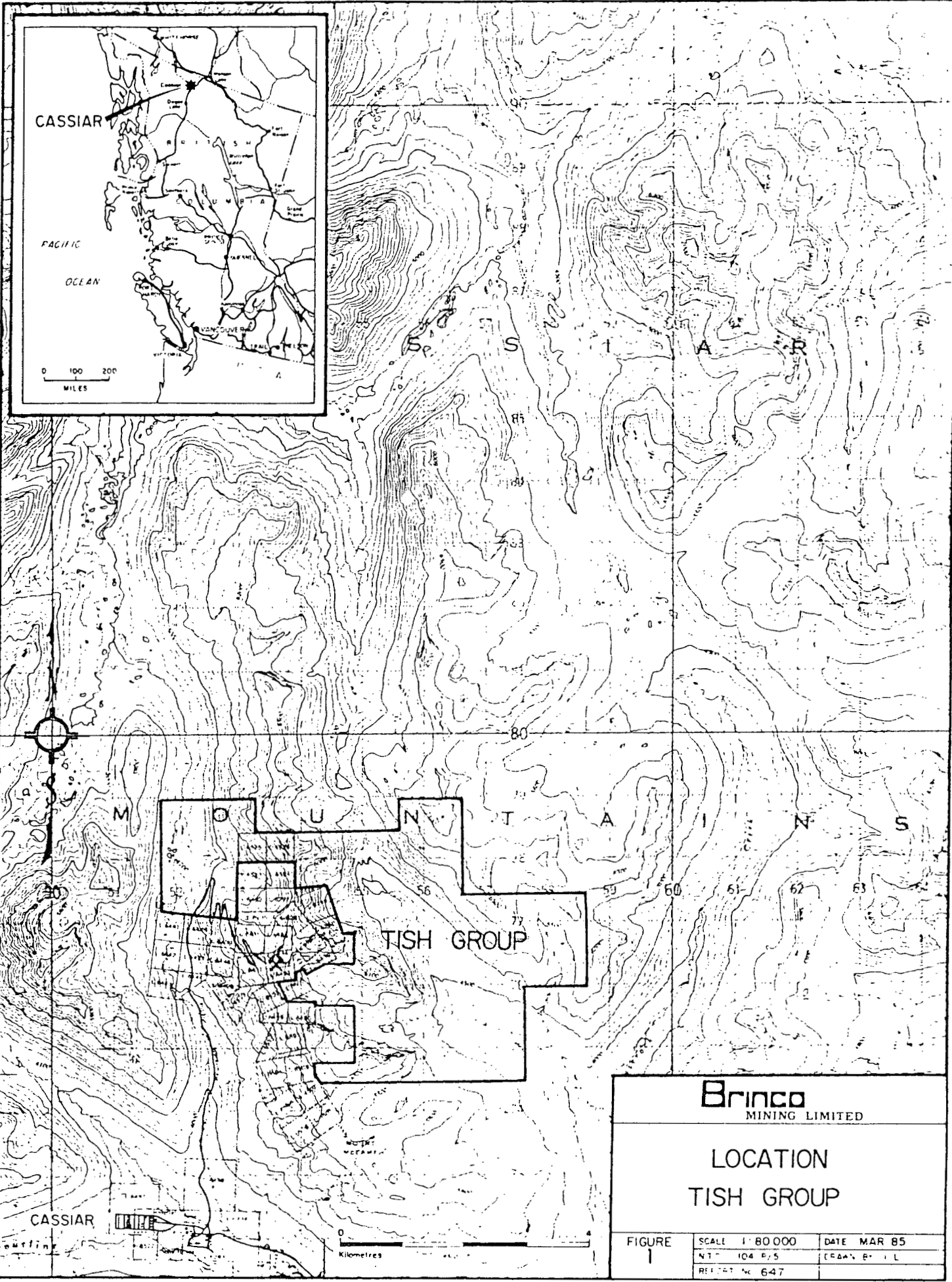
Claim Name	Record No.	Units	Area(ha)	Date Recorded
Tish 1	1341	18	450	August 3, 1984
Tish 2	1342	18	450	August 3, 1984
Fred 1	1291	12	300	May 28, 1980
Fred 2	1292	8	200	May 28, 1980
Fred 3	1293	18	450	May 28, 1980
Fred 4	1294	12	300	May 28, 1980

Crown Granted Mineral Claims:

Claim Name	Lot No.
Goat 2	6502
Cirque 4	6525
Cirque ?	6526

Mineral Leases:

Lease Name	Lot No.	Area(ha)	Date Recorded
M2	3161	242.14	August 23, 1977



CASSIAR

PACIFIC OCEAN

0 100 200
MILES

M O U N T A I N S

TISH GROUP

CASSIAR

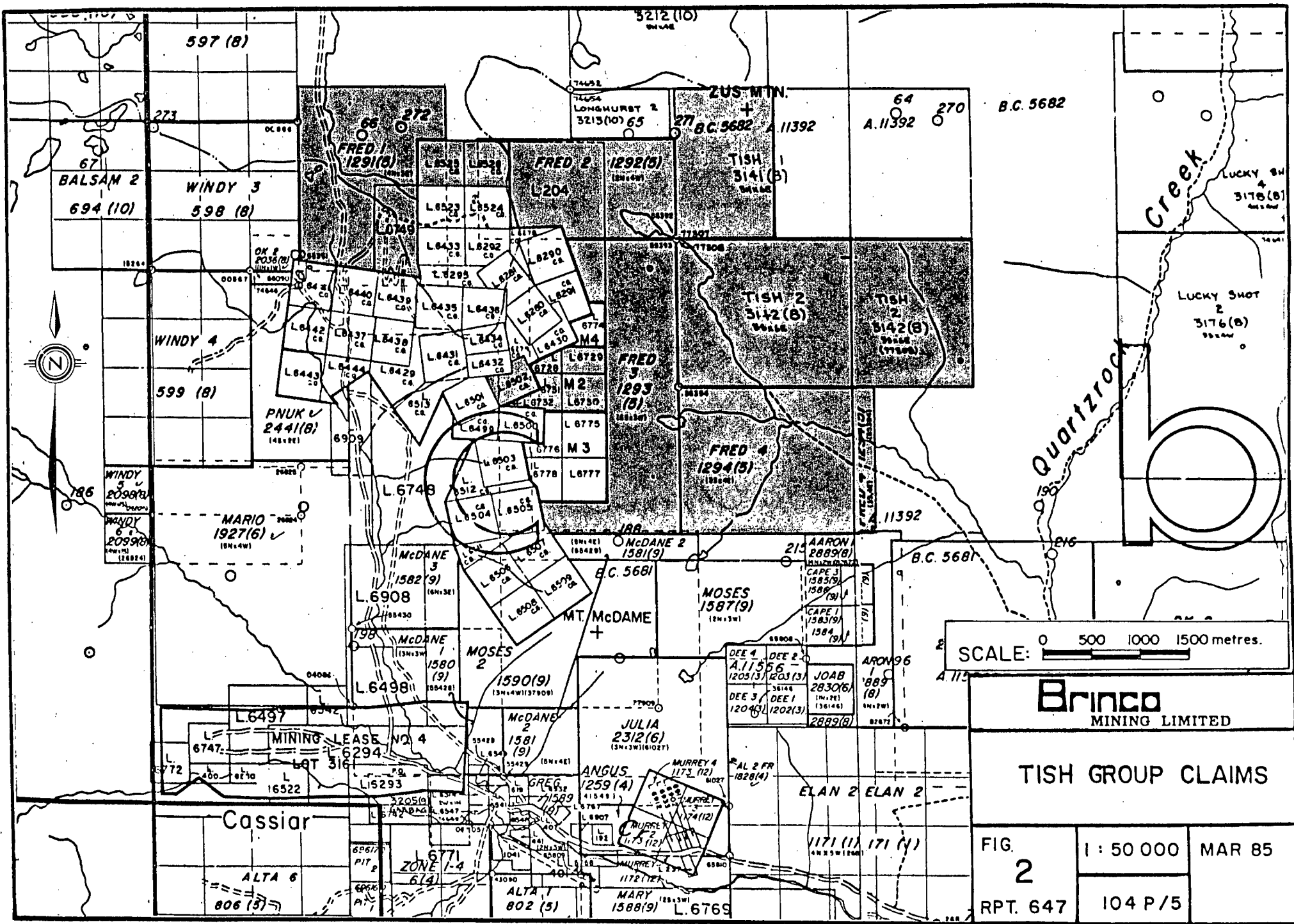


0 4
Kilometres

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MINING LIMITED

LOCATION
TISH GROUP

FIGURE 1	SCALE 1:80 000	DATE MAR 85
	NT 104 P/S	CRDAN P. 1 L
	REF ID No 647	



SCALE: 0 500 1000 1500 metres.

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TISH GROUP CLAIMS

FIG. 2	1 : 50 000	MAR 85
RPT. 647	104 P/5	

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4.0 PREVIOUS HISTORY

Asbestos ore has been mined at Cassiar since 1952. To the end of 1984 approximately 23 million tonnes of asbestos ore has been mined from the open pit to produce 2 million tonnes of fibre. The orebody in the pit is forecast to have approximately 5 years life remaining.

In 1980 a new deposit, called McDame, was discovered at depth southeast of the pit. Drilling in 1981 from an adit delineated part of the deposit (Pennock & Pratt, 1982), but it thickened and was open on its downdip extension. In 1983 airborne and ground magnetic surveys were done to detect the ultramafic body containing the asbestos ore. In 1984 Hole 84-1 was drilled to test the geophysical response.

5.0 PURPOSE OF DRILLING

The magnetic surveys done in 1983 detected a strong response entirely due to the ultramafic host rock in the mine area. They are not being submitted for assessment but in general the results are as follows. The magnetic response extended considerably further southeast than the known extent of the McDame deposit (Fig. 3). Geophysical interpretation of the source was complicated by the effect of topography separating the sensor from the source. Possible interpretations were that there was a single large source, 300 m deep, plunging southeasterly or else that there were two, superimposed smaller sources (Fig. 4).

6.0 DRILL PROGRAMME

A 600 m drill programme was planned to test the magnetic response. This was to be 2 holes if a shallow source was encountered or a single hole if it was deeper. The site for the holes was restricted by the presence of a large coarse rock dump covering a cirque floor between precipitous ridges over the magnetic source. Based on the geophysical interpretation a site was selected on the south side of the dump at the foot of the cliffs, mine coordinates 21472 N, 25916 E, 5886' elevation (Fig. 5). An azimuth of 270° and dip of 78° were predicted to intersect the source at 300 m depth. A 488 m long road was constructed over the dump to the site by mine personnel.

D.W. Coates Ltd. of Richmond, B.C. were contracted to do the drilling.

The hole was drilled from July 21 to August 6. Mud with Alcomer or EZ mud were used as lubricant in the hanging wall rocks and Superpoly and at times Lub Tub (not easily available) used in serpentinite. This gave very clean cutting of the serpentinite with excellent core recovery. The hole was HQ size to 1333 ft. (406 m) and NQ below. Casing was left in the collar. It was stopped at 2042 ft. (622 m) as it was passing through

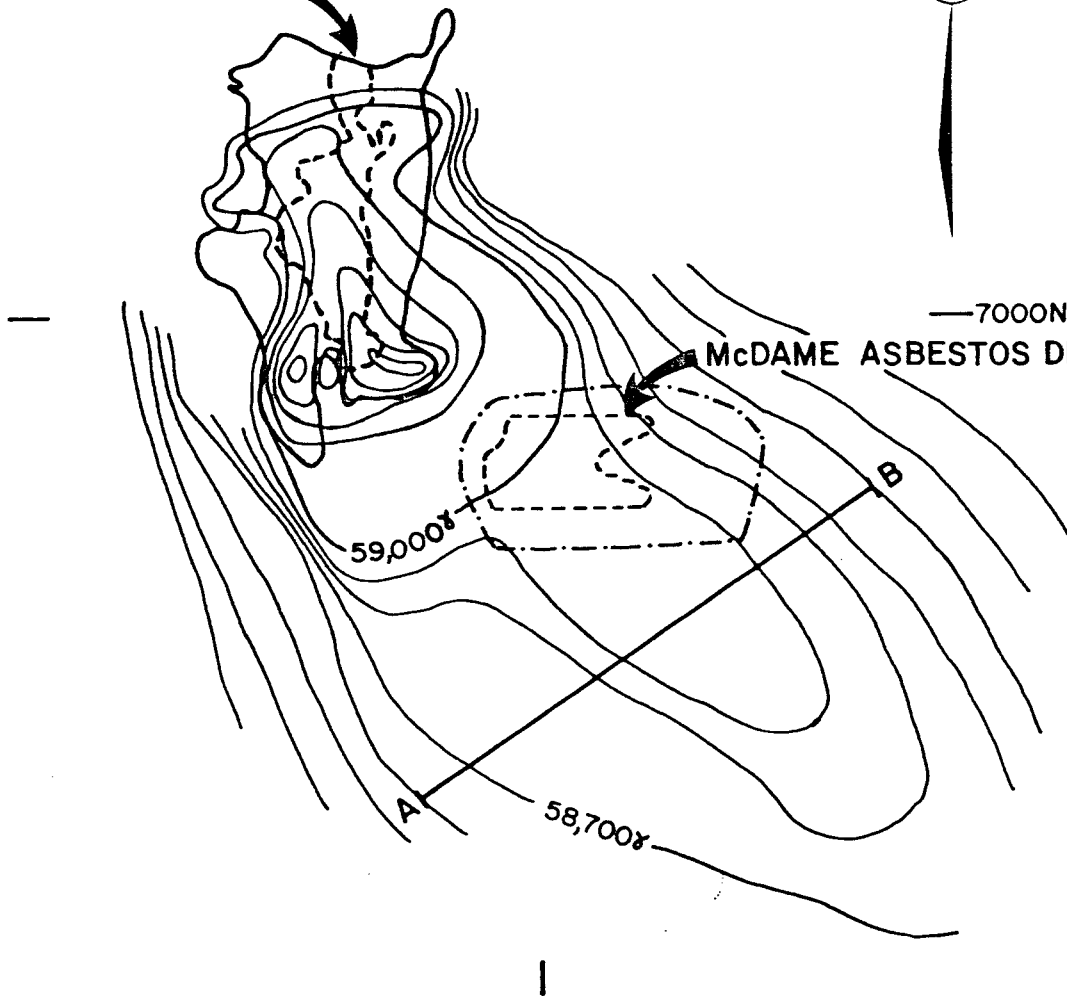
CASSIAR
OREBODY

—7600E



—7000N

McDAME ASBESTOS DEPOSIT



SCALE

0 360metres

NOTE: Contours at 100γ intervals below the 59,000γ contour line, and 1000γ intervals above the 59,000γ contour line.

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DIAGRAM OF
GROUND MAGNETIC RESPONSE

FIG. 3	SCALE 1:6000	DATE MAR 85
	N.T.S. 104 P/5	DRAWN BY: H.H.
	RPT NO. 647	

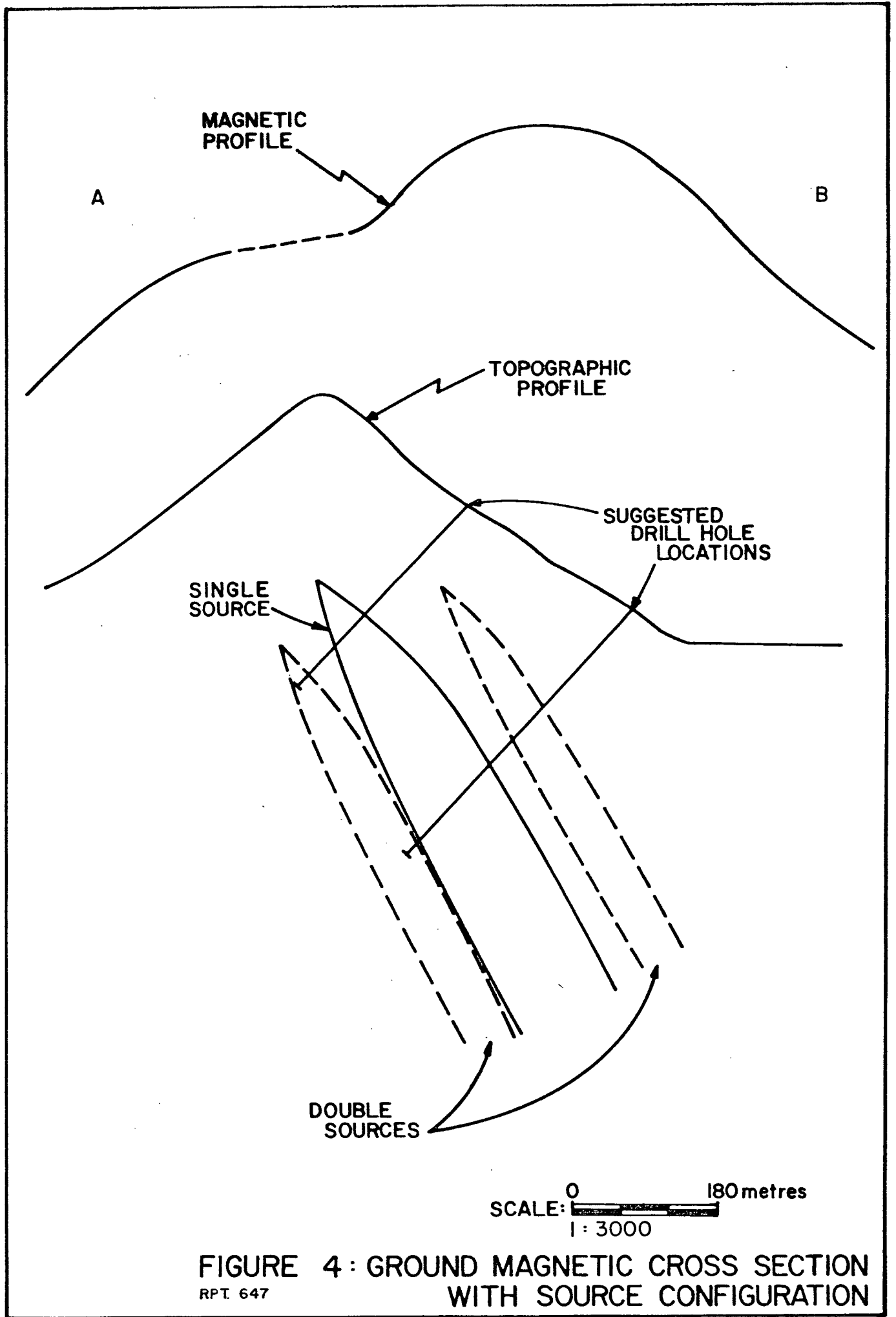


FIGURE 4 : GROUND MAGNETIC CROSS SECTION WITH SOURCE CONFIGURATION

RPT. 647

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soft sheared serpentinite and it was feared the rods might be lost if it penetrated into the footwall graphitic argillites.

The core was geologically logged by R.S. Hewton and stored on the mine-site at Cassiar. A fibre log was begun at 1350 ft. (411 m) for the information of the exploration department and the core was read twice in September by mine personnel. The results are very close. Deflection in the hole was measured by 6 acid tests which indicated a lessening of dip by 9° , most occurring in the hanging wall rocks. Horizontal deflection is unknown but expected to be minor.

Magnetic susceptibility readings were taken throughout the hole. There was essentially no response from any rock except for the ultramafic (Table of Readings, Appendix 2).

7.0 RESULTS AND INTERPRETATION

The hole intersected 242 m of serpentinite of which 50 m contained low grades of fibre and 151 m contained high grades of fibre. Asbestos fibre is not amenable to normal methods of valuation based on chemical assays and the following general method was employed.

1. Fibre bearing zones of core are divided into five foot lengths (1.52 meters).
2. In each five foot section the length of every fibre seam is measured in 1/16 inch (1.587 mm) increments.
3. To obtain an estimate of the percent of fibre in each section, the total length of all fibre measured is divided by the length of recovered core, to obtain a Core Reading Grade (CRG). Because the Cassiar orebody is considered a stockwork, all fibre seams are oriented randomly. To account for this randomness a correction factor ($\text{Cosecant } 45^{\circ} = 1.414$) is applied to the CRG ($\text{CRG} \times 1.414$) to give a Corrected Core Reading Grade (CCRG).

Although the intersection of DDH 84-1 is about 200 m southeast of the previously drilled part of the McDame deposit, the homogeneity of the deposit is such that it can be used with confidence to calculate reserves. The engineering staff at Cassiar have calculated reserves using a modified weighting three dimensional block model method with certain confidence limits applied on the drill hole information. Block tonnages calculated within the area of the probable reserves were checked with tonnages for the same areas calculated using grid sections and a good correspondence was established. The intersection of Hole 84-1

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allowed the possible tonnage reserve of the McDame deposit, of greater than 3% CCRG, to be increased by about 30 million tonnes (Carew and Pennock, Oct. 31, 1984). The total approximate reserves are:

	<u>Tonnes</u>
Probable	15,000,000
Possible	<u>46,000,000</u>
TOTAL	61,000,000

These figures are based on limited drill intersections.

8.0 GEOLOGY

The Asbestos bearing serpentinites at Cassiar are part of the Sylvester Group. In the vicinity of the mine the Group consists of a monotonous sequence of interlayered argillites, cherty sediments and greenstones with ultramafics, of oceanic origin. It is considered to be an allochthonous klippe emplaced onto the underlying Devonian and older rocks between the Triassic and mid-Cretaceous periods (Harms, 1985). Before and during emplacement the Group underwent considerable tectonic deformation, primarily thrust type, so that although there is obvious lithologic layering, the layers are discontinuous, pinch and swell, and are not in their original stratigraphic order, making the tracing of units any great distance along strike almost impossible. Despite this, a "package" of layers may be sufficiently distinctive that it can be correlated between two points, although individual layers in the package may come and go. On the basis of this an attempt has been made to correlate the hanging wall argillites and greenstones encountered in Hole 84-1 with outcrop on McDame Mountain as shown in the section Figure 6. It appears that the hanging wall consists of two thrust sheets and these perhaps consist of lesser thrust sheets. It must be realized that the whole hanging wall sequence is considerably deformed and that the recognition of thrusts is very subjective.

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9.0 REFERENCES

Carew, T. and Pennock, M., 1984 - McDame Lens Geological Resource
Statement as of October 31, 1984,
Brinco Mining in-house report

Harms, T., 1985 - Pre-emplacement Thrust Faulting in the Sylvester
Allochthon, Northeast Cry Lake Map Area, British Columbia,
G.S.C. Current Research, Paper 85-1a.

Pennock, M. and Pratt, W., 1982 - Report on Underground Diamond Drilling
for June - December 1981 Beneath the Cassiar Mine,
B.C.D.M. Assessment Report

APPENDIX 1

DRILL LOGS D.D.H. 84-1

PROJECT CASSIAR DRILLING

Page 1

D. D. HOLE No. 84-1

LOCATION 21440N 25870E

R.S. Newlon

HOLE STARTED July 20, 1984

HOLE COMPLETED August 6, 1984

CORE RECOVERY _____ %

DRILLED BY Coaler Diamond Drilling

SURVEY		
Depth	Dip	Asimuth
251' 80°	76° 30'	-
448' 77°	72° 30'	-
745' 77°	72° 30'	-
1007' 75° 30'	70° 36'	-
1332' 76°	71° 12'	-
1639' 69°	69°	-
2023'	69°	-

COLLAR LAT. 21472.25 N

DEP. 25916.39 E

ELEV. 5885.9'

AZIMUTH 270°

DIP. 78°

LENGTH 2042'

HOR. PROJ. _____ VERT. PROJ. _____

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0	17.6	Casing				
17.6	120.9	Argillite Predominantly grey-black soft argillite with local random quartz veins at irregular attitudes 17.6 - 35.4' - beds are brecciated (and boudinaged) giving loney irregular appearance. Beds at 40° to ca. 20.7 - 21.0' - tuff, green colour 35.4 - 46.2' - relatively homogeneous dark grey to black argillite, completely silicified, perhaps some black chert beds, several sandy beds. Beds at 80° 38.5 - 40.9' - quartz vein, grey white, rare argillaceous fragments, several chlorite fragments which may be ghost argillite fragments 40.9 - 41.5' - very fine grained tuff, green, with lenses of quartz, numerous dendritic blobs and reticulate filaments of manganese 46.2 - 49.3' - interbedded silicified argillite and tuff, approximately 70% very fine grained green tuff with reticulate and spotty manganese, beds at 90°, minor epidote - argillite featureless, very silicified 49.3 - 120.9' - grey and black argillite with distinct but completely contorted bedding at 10° to 90° to ca. 11 py on thin fractures and an small patches				

HOLE NO. K4-1

SHEET NO. 2

PROPERTY

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
		53.4' - intense brecciation with numerous quartzite fragments				
		54.2 - 55.1' - numerous quartzite beds, boundinaged, high manganese content, beds at 75'				
		64' - greenstone beds become numerous				
		70' - quartzite becomes dominant				
		68.4' - blotch of pyrrhotite, weakly magnetic, speck of chalcopyrite				
		67-70' - very fine disseminations of pyrrhotite, weakly magnetic, 0.2 on susceptibility meter over one small patch, rest 0.1				
		Chlorite present throughout 49.3 - 120.9' section and most abundant in quartz veins. Locally up to 5% pyrite but average is 1% to 97', almost none past 97'				
		103.0 - 109.0' - white to light grey chert with reticulate network and dendrites of manganese, bedding completely distorted, local brecciation				
		116.5 - 117.3' - breccia zone; very heavily brecciated and rehealed - possible fault, contacts at 50' (upper) and 64' (lower)				
120.9	128.7	Tuff homogeneous, green, medium grained tuff with round quartz grains, some green (sericitized) feldspar crystals, a few of which are subhedral. Black manganese specks throughout. Interbeds of dark grey argillite present.				
128.7	141.7	Argillite very distorted bedding, brecciated, numerous chert fragments, some quartzite beds, pyrite 1% as cubes disseminated throughout 130.4 - 141.7' - grey argillite with internal brecciation grading through to quartzite beds, to tuff by 137' to brecciated quartzite and argillite with some chert by 141.7'. Approx. 1% pyrite throughout.				
141.7	147.0	Breccia Zone Intense breccia with argillite and quartzite beds fractured and healed by quartz, calcite and ankerite(?), 1-5% very fine grained pyrite throughout. 144.5 - 145.5' - crystalline quartz with 50% argillite and quartzite fragments - probably fault zone				

HOLE NO. 89-1
SHEET NO. 1

PROPERTY _____

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
147.0	201.1	<p>Argillite Interbedded grey and black argillite with interbeds of chert, quartzite, and tuff.</p> <p>147.0 - 153.1' - dark grey argillite with quartzite interbeds, chloritized, 12 disseminated pyrite</p> <p>153.1 - 173.5' - homogeneous grey argillite interbedded green tuff brecciated and boudinaged beds, 12 py with concentrations to 52 over 3-5 cm. Occasional quartz-calcite stringers at 10⁰.</p> <p>173.5 - 182.7 - black argillite interbedded with grey quartzite and some green tuff, very silicified, some chert beds, random quartz veins with chlorite, manganese lattice in chert-silica zones, also specks of manganese.</p> <p>189.3 - 201.1' - homogeneous grey argillite with green tuff interbeds with argillite predominant near top, tuff more abundant near lower contact, manganese network throughout. Upper contact 45⁰, lower 70⁰.</p>				
201.1	208.0	<p>Tuff green, medium grained, rounded quartz comprises 60% of unit, manganese specks and lattice network throughout, several black argillaceous bands to 10 cm thick with distorted bedding and fragments of quartzite</p>				
207.0	212.5	<p>Argillite grey argillite with quartzite and some chert, heavily mottled, boudinaged, bedding irregular at 70⁰</p>				
212.5	221.6	<p>Tuff or Flow 212.5 - 217.0' - green tuff (or flow), medium grained rounded quartz grains, black rounded to tabular grains and amorphous green grains - probably silicified feldspars, 10% argillaceous material in irregular beds</p> <p>217.0 - 221.6' - fine grained light grey-green tuff, bedding thin and irregular at 65⁰</p>				
221.6	335.1	<p>Argillite 221.6 - 239.6' - mottled grey argillite with quartzite and light grey interbeds, boudinaged, some chert</p> <p>239.6 - 269.0' - grey argillite with coarse tuff interbeds, breccia, often melding together. Beds very indistinct and at 0 to 90⁰, beds often faulted.</p>				

PROPERTY

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
		269.0 - 298.5' - as above with less tuff, more chert with dendritic manganese such as at 287.5-298.5'. Chert zones are separated by siliceous argillite, bedding very irregular and indistinct, usually around 60°				
		298.5 - 300.2' - breccia zone with multi-sized fragments to 0.1'				
		300.2 - 326.5' - evenly, thinly bedded argillite with grey sandy beds, no chert, bedding undulates and is wispy but not mottled, usually at 50-55°				
		326.5 - 335.1' - very fine grained black argillite, thin bedded, few sandy interbeds to 1 cm thick, core badly broken, beds at approximately 65°, thin pyrite seams on fractures				
335.1	344.6	Tuff				
		335.1 - 343.0' - medium grained (flow?) with quartz and sericitized feldspar, approximately 5% pyrite as disseminated specks, NOTE: calcite is present in all units throughout hole, principally on fractures, but is less common in chert or siliceous units and most common in tuff.				
		343.0 - 344.6' - fine grained tuff, interbeds of argillite, represents contact zone, beds at 60 to 90° and are very distorted.				
344.6	388.7	Argillite				
		- thinly bedded with chert, quartzitic and rare green tuff interbeds, bedding very distorted, generally at 62°				
		- chert uncommon, generally light grey, and forms lensy or boudinaged beds				
		- quartzite beds most commonly separated by thin argillite				
		355.3 - 373.9' - quartzite less frequent, argillite and chert beds common, no tuff, chert more abundant and still lensy, bedding 10-90°, pyrite throughout.				
		356.7 - 0.3' thick zone of chert with specks and dendrites of manganese				
		373.9 - 388.7' - shaley argillite with decreased chert beds and some quartzite beds, less boudinaging, less bedding distortion, beds at 60 to 65°				

PROPERTY

HOLE NO. 89-1

SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
388.7	391.2	Volcanic Flow (?) - upper and lower contacts at 65°, may not be a flow, fine argillite laminations at lower contact are not disturbed and show no reaction rims, probable tuffaceous material in argillite below lower contact; 0.3' below lower contact is band of tuff/chert - upper contact passes from coarse tuff to tuff to chert to argillite in 0.2'				
391.2	396.0	Argillite black argillite with occasional chert lenses and some quartzitic beds, bedding irregular at 60°, Zz disseminated and fracture filled pyrite throughout				
396.0	401.0	Brecciated argillite with greenstone (tuff) beds.				
401.0	412.0	Argillite & chert - grey, with narrow tuff beds, blotches of pyrite throughout to over 102 over 2 cm - unit is brecciated with fragments displaced, as though faulted - tuff fragments increase towards bottom, contact with unit below is gradational, quartz veins at 0 to 10" - 402' - pyrrhotite, weakly magnetic, susceptibility meter 0.1				
412.0	422.4	Tuff - fine grained, grey-green, pyrite on fractures, random veinlets of manganese, some quartz veins to 3 mm thick with reticulate manganese within (late stage quartz veinlets with manganese selvage at 0-10" from 412-413). Pyrite on fractures at 45° manganese random but commonly at 45°, also fractures at 0-10" with nothing or calcite				
422.4	512.0	Volcanic Flow - coarse grained, quartz and feldspar crystals, feldspar now green - probably sericitized, Zz pyrite in fractures and disseminated, quartz chlorite veins at 0-10" 458.0 - 454.9' - lath-like crystals have hard green core with white soft envelope - partially sericitized feldspar 472' - few grains of pyrrhotite, weakly magnetic, susceptibility meter 0.1 499' - argillite and tuff interbeds begin - argillite becomes more abundant at depth, last coarse greenstone at 512' - argillaceous beds are distorted and brecciated				

PROPERTY.

HOLE NO. 84-1

SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
512.0	533.3	Tuff - fine to medium grained, no distinct bedding, grey-green, manganese reticulate lattice work throughout, frequent grey-black quartz veins at random angles, numerous chlorite veins and patches and sometimes amorphous masses with stringy pseudo bedding - black chert bands at 80-85° are well defined at 518' and 523' - specks of pyrite and fracture filling throughout - lower contact gradational with increase in argillaceous material				
533.3	541.1	Argillite - black, abundant chert beds, lensey, 1% pyrite on average but sections to 5%, quartz veins at 10-20°, bedding obscure, brecciated, black lattice manganese in chert-rich beds				
541.1	661.7	Tuff - fine grained as 512.0-533.3', homogeneous green veined with black which is mostly cherty argillite, chlorite (minor) and manganese. Quartz chlorite veins are common, often with quartz selvage. Thicker cherty argillite at 590-592', 621.7-622.9' and 635.2-636.4'. Dendritic manganese at 625.6-627.0'. Quartz chlorite at 627-628' 630.5 - 631.1 - Rhodochrosite veinlet				
661.7	667.0	Contact Zone - Interbedded tuff and argillite (green and black) with minor grey chert				
667.0	701.5	Argillite - thin bedded at 65-70°, black, numerous quartz veins to 5 mm thick at 15°, fine grained light grey quartzite becomes more dominant after 677'. Quartzite is 50% from 677-692', 90% from 692-699' and 5% from 699-701.5'				
701.5	719.3	Tuff - as 512.0-533.3', very siliceous - probably chert, upper contact at 62°, lower at 70°, 5% disseminated pyrite, quartz veins at 15°, black chert with manganese(?) network, no chlorite, black lattice work throughout				
719.3	760.3	Argillite				

PROPERTY

HOLE NO. 84-1

SHEET NO. 7

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
		<ul style="list-style-type: none"> - Interbedded argillite and quartzite at 70-73⁰, no quartz veining just a few tension gashes healed with quartz-calcite, 1% pyrite disseminated and fracture filling 727' - calcite content drops to almost 0 after 727' 738' - quartzite dominates, 2 cm thick beds with 1-2 mm beds of argillite between, beds are lensy 755' - argillite content increases, quartz veins 1 cm thick at 15⁰ 				
760.3	772.0	Fault Zone <ul style="list-style-type: none"> - rubble of black argillaceous material with remnant quartzite beds; probably interbedded quartzite and argillite - quartz veins random 				
772.0	779.2	Argillite <ul style="list-style-type: none"> - grey and black interbedded, 60% quartzite, 40% argillite, beds at 52⁰, thinly bedded, core broken 				
779.2	784.0	Breccia Zone (Fault?) <ul style="list-style-type: none"> - healed and broken breccia with some remnant argillite quartzite beds at 50⁰ 				
784.0	787.0	Fault Zone <ul style="list-style-type: none"> - argillite rubble 				
787.0	810.2	Argillite <ul style="list-style-type: none"> - grey, mottled or lensy chert beds near top, consistent beds at 75⁰ by 789', 2 cm thick with thin black argillaceous partings, pyrite on fractures throughout and also disseminated on bedding planes, lower contact at 80⁰ - thin (1 mm) chert beds often with pyrite, quartz veins at 0-10⁰ 				
810.2	826.4	Argillite <ul style="list-style-type: none"> - buffaceous, thin beds of argillite, chert beds lensy (pinch and swell), pyrite lenses in coarser quartzite beds, beds at 75⁰, quartz veins at 5-15⁰ - frequently with chlorite - grey argillite beds to 3 cm thick, black shaley interbeds to 1 cm thick 				
826.4	832.5	Tuff <ul style="list-style-type: none"> - green, with chert interbeds, local coarse grained beds lower contact with argillite gradational 				

HOLE NO. 84-1

SHEET NO. 8

PROPERTY

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
832.5	953.5	<p>Argillite</p> <p>- thinly evenly bedded at 70^o, grey and black argillite, pyrite common on black argillite interbeds, no calcite, quartz beds or veins parallel to bedding, some grey argillite beds are quartzite (10%), quartz veinlets have creamy white, soft mineral - probably ankerite which is 10-20% of quartz vein</p> <p>841.7 - 849.2' - numerous thin quartz veins at 25^o</p> <p>865.8 - 878.3' - intense quartz carbonate veining, beds broken and distorted, possible fault zone, chlorite common in vuggy quartz veins</p> <p>886.3 - 886.5' - tuff bed, upper contact at 75^o, lower at 65^o</p> <p>887.0 - 892.0' - bedding indistinct, grey argillite beds (nodular) predominate, bedding thinner</p> <p>905.2 - 924.0' - black argillite with dark grey interbeds, bedding homogeneous, very few quartzite beds, minor quartz veining, rare green tuff beds, 920' - chert beds</p> <p>924.0 - 941.2' - argillite and tuff interbeds, tuff cut by dendritic manganese, poorly defined argillite beds at 70^o</p> <p>941.2 - 953.5' - interbedded black and grey argillite with some quartzite and some chert beds, evenly bedded, sometimes brecciated, sometimes lensey, light grey argillites to 2 cm, bedding at 70 to 90^o</p> <p>953.5' - gradational contact with unit becoming more tuffaceous (green coloured)</p>				
953.5	999.0	<p>Tuff</p> <p>- light and dark green interbeds at 80^o up to 3 cm thick with chert beds every 0.5 m or so, abundant quartz manganese stringers at 45^o, manganese disseminated in quartz, calcite present in fractures and quartz stringers at 5-10^o</p> <p>963.0 - 967.5' - coarse grained with abundant chlorite</p> <p>984.0 - 989.5' - coarse grained with chlorite; quartz-calcite vein at 0^o</p> <p>985.0-985.8' - quartz rhodonite vein at 10^o, chlorite abundant</p> <p>994.0' - chert beds become common</p> <p>996.0' - argillaceous beds interbedded with tuff at 65^o</p>				
999.0	1070.7	<p>Argillite</p> <p>- dark and grey thinly bedded argillite at 75-80^o; occasional chert and tuff; beds contorted, sometimes folded, no calcite</p>				

HOLE NO. B4-1

SHEET NO. 9

PROPERTY

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
		1041.0-1045.0' - quartz-carbonate veins to 2 mm thick at 45 ⁰ 1054.0-1059.0' - core very broken 1063.3-1070.7' - gradational increase in tuff content in argillite and several siliceous tuff beds with pyrite; argillite is evenly bedded at 60 ⁰				
1070.7	1119.3	Tuff green tuff beds begin in dark grey evenly bedded argillite, beds at 70 ⁰ , quartz-carbonate veins at 45 ⁰ , manganese lattice throughout tuff, minor calcite 1089.9' - green tuff dominant with lensy chert beds and black argillaceous partings; pyrite is common on quartz veins or in chert beds 1101.8-1115.0' - coarse grained tuff with abundant chlorite, sparse blotches of weakly magnetic pyrrhotite (102), calcite common on fractures 1115.0-1119.3' - gradational decrease in tuff content, more argillite near bottom				
1119.3	1141.0	Argillite thinly evenly bedded dark grey argillite with interbeds of quartzite and chert at 60 ⁰ . Quartz veins with 202 chlorite at 60 ⁰ are vuggy. Veins also at 5, 15 ⁰				
1141.0	1169.0	Chert and Tuff medium grained tuff, brown coloured, mixed with grey and black chert with reticulate hairline veining. Quartz veins comprise 45% of core from 1141.8-1146.6'. Pyrite to 102 in quartz veins, also 12 pyrrhotite. Calcite veining common after 1158'. Quartz veins at 10 ⁰ .				
1169.0	1184.2	Tuff fine grained tuff, green, with chert beds throughout, occasional chlorite veins to 1182' where they become common. Core broken with numerous rubble sections. Quartz veins at 20 ⁰ , 40 ⁰				
1184.2	1215.5	Volcanic altered coarse grained volcanic with dark green crystals (chlorite?) in light green fine grained matrix. Thick sections with 502 or more of dark mineral. Quartz veins present.				

HOLE NO. 104-1

SHEET NO. 10

PROPERTY _____

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
1215.5	1237.4	Tuff Fine grained, brown silicified, tuff with green (chloritic) partings and interbedded chert. Part of alteration zone that is green at top becoming brown at 1232'. Bedding at 70°.				
1237.4	1247.5	Alteration Zone Beginning of ultrabasic. Rock is dark green, talcy with tuffaceous beds near contact. By 1241' rock has appearance of ultrabasic but is either non-magnetic or weakly magnetic. Green mineral (serpentine?) with fibrous appearance abundant on fracture planes.				
1247.5		Ultrabasic Very dark green to black, fine to medium grained, <u>very</u> fractured, very magnetic, calcite veinlets present, fractures contain dark green mineral (serpentine?) in fibrous form on fractures. Jointing prominent at 10-20°, 40-45°, 60-70° but also present at virtually every other direction. 1255' - calcite no longer present, serpentine becomes significant 1260' - first fibre veins, 1/16" long, rare 1270' - core very broken 1285' - fibre veins become more abundant, still 1/16" or less, irregular pattern, fish scale(?) serpentine still present - veins of fine grained black material, magnetite-rich - occasional bastite noted 1298' - example of magnetite vein - hornetall type, core very broken to 1353', occasional ribbon fibre vein present 1366' - fibre becomes abundant, no fibrous serpentine, fibre veins random, no calcite; numerous fibre veins less than 1/10" are present. 1478-1493' - less fibre, serpentine present again 1492-1530' - ultrabasic is paler green with well defined magnetite zones, some dark green sections, bastites not noticeable 1526-1530.5' - very broken core, shear zone 1530' - abundant very long fibre				

HOLE NO. 84 - 1

PROPERTY

SHEET NO.

FOOTAGE		DESCRIPTION	SAMPLING				Broken from	Core to	Fault Broken From	Zones and Soft to
FROM	TO		SPL. NO.	FROM	TO	FEET				
		Continuing from 1544' logged by I.L.								
		Serpentinite, with fiber, variable brunswick green, generally light; mottled, turbid and tartan patterns with dark magnetite veinlets; medium grained with bastites generally 2 - 3 mm.					1568.5 1576.2	1570.2 1579.5		
		Sumceptibility generally 2 to 4, lesser zones of about 1' up to 10 - 15, rare short sections of about 3" up to 30 - 40 -- do not correlate well with visible magnetite. Some Chrysolite veins have high sumceptibility due to magnetite partings, others are of ordinary sumceptibility					1629	1631	1608	1610.5
		1800 - 1860 Generally dark green, very slight mottling; bastites up to 3 mm, about 5%; Dark magnetite clots about same size range, about 3%. Ambestos veins sharp and straight, often with partings, often several in large veins.					1793 1800	1794.5 1802	1642 1647 1668.2	1643 1649.5 1677
		1860 - 1925 Dark brunswick green (lighter than 1800) with more color variation, tartan in places. Ambestos veinlets more lensoid and irregular short partings in serperntinite.					1743 1749	1749 1752	1743 1752 1761.2 1784.7 1789	1749 1754 1762 1885.1 1793
		1925 - 1960 Dark green, fairly uniform with scattered thin (<2mm), scattered magnetite veinlets.					1834 1836.5 1846	1835.3 1837.2 1847	1802 1832.2 1835.3	1804 1834 1836.5
		1960 - 1990 Gradually becomes slightly lighter green, more mottled, core more broken, asbestos veinlets back to normal percentages.					1867 1873	1868 1879	1848	1855.1
		1929 - 1944 Sparse Ambestos veinlets -- short, thin, <1mm scattered veinlets, rock massive, few fractures.					1890 1896 1902	1892 1899 1904	1882 1885 1892	1883 1889 1894
							1923 1946 1983	1925 1947 1985	1911 1915 1919	1913 1916 1923
									1988	1994

PROPERTY

HOLE NO.

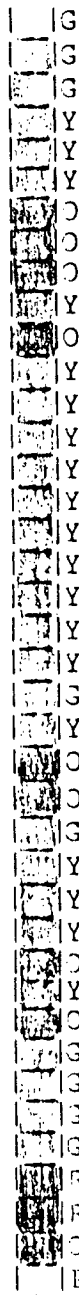
SHEET NO.

FOOTAGE		DESCRIPTION	SAMPLING				Broken From	Core to	Broken Fault From	and Soft Zones to																											
FROM	TO		SPL. NO.	FROM	TO	FEET																															
		<p>1990 - 2042 Lighter yet but variable color, some tartan. Extensively broken and sheared sections cored reasonable well but broken when put in boxes. Little fiber remains in sheared sections and that is usually soft and easily broken, perhaps talcy. Little fiber apparent below 2023'</p> <p>2042 End of hole. Due to possibility of rods getting stuck.</p> <p>ACID TESTS</p> <table border="1"> <thead> <tr> <th>DEPTH COLLAR</th> <th>READ ANGLE</th> <th>CORRECTED ANGLE</th> </tr> </thead> <tbody> <tr> <td>0'</td> <td>78°</td> <td>--- Brunton</td> </tr> <tr> <td>251'</td> <td>80°</td> <td>76° 30'</td> </tr> <tr> <td>450'</td> <td>77°</td> <td>72° 30'</td> </tr> <tr> <td>745'</td> <td>77°</td> <td>72° 30'</td> </tr> <tr> <td>1007'</td> <td>75.5°</td> <td>70° 30'</td> </tr> <tr> <td>1332'</td> <td>76°</td> <td>71° 15'</td> </tr> <tr> <td>1639'</td> <td>74.5°</td> <td>69° 20'</td> </tr> <tr> <td>2023'</td> <td>74.5°</td> <td>69° 20'</td> </tr> </tbody> </table>	DEPTH COLLAR	READ ANGLE	CORRECTED ANGLE	0'	78°	--- Brunton	251'	80°	76° 30'	450'	77°	72° 30'	745'	77°	72° 30'	1007'	75.5°	70° 30'	1332'	76°	71° 15'	1639'	74.5°	69° 20'	2023'	74.5°	69° 20'					<p>1994 2001 2010</p> <p>2037</p>	<p>1996 2006 2014</p> <p>2041</p>	<p>1996 2006</p> <p>2019 2022</p> <p>2041</p>	<p>2001 2010</p> <p>2021.5 2037</p> <p>2042</p>
DEPTH COLLAR	READ ANGLE	CORRECTED ANGLE																																			
0'	78°	--- Brunton																																			
251'	80°	76° 30'																																			
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1332'	76°	71° 15'																																			
1639'	74.5°	69° 20'																																			
2023'	74.5°	69° 20'																																			

FIBRE LOG

BOREHOLE No. 1 / 841

From	To	Rec'd	1's	2's	3's	4's	5's	6's	8's	10's	12's	14's	15's	13+'s	Core/S	CCRG
1355	1355	0	5	5.0	2										45	0.80
	5	10	5.0	1											45	0.14
1365	1365	10	15	5.0	2										45	0.80
1365 - 1370	15	20	4.0	8	6	3									45	2.21
	20	25	5.0	7	7		4								45	2.64
	25	30	5.0	8	4	2									45	1.99
	30	35	5.0	13	6	3									45	4.13
	35	40	5.0	19	8										45	3.97
	40	45	5.0	14	7	3									45	4.35
	45	50	4.3	15	3										15	2.74
1400 - 1405	50	55	5.0	13	7			6							45	3.83
	55	60	5.0	10	7	3									45	2.87
	60	65	5.0	11	4										45	2.14
	65	70	5.0	14	5										45	2.80
	70	75	5.0	13	3										15	2.23
	75	80	5.0	10	4										45	2.06
	80	85	5.0	5	5	3									45	1.99
	85	90	5.0	13	6	2									45	2.91
	90	95	5.0	11	7	2									15	2.87
	95	100	5.0	8	2	3									45	1.01
	100	105	5.0	6	1										45	1.03
	105	110	3.6	4											15	0.61
	110	115	5.0	10	5	2	2								45	2.73
	115	120	5.0	12	12	3									45	3.97
	120	125	5.0	16	5	3									45	3.51
	125	130	4.8	1											45	0.16
	130	135	4.8	3											45	1.89
	135	140	5.0	10	3	3									15	2.95
	140	145	5.0	7	3										15	1.47
	145	150	5.0	5	11	2	5		5						45	4.91
1500 - 1505	150	155	5.0	11	5	2	2								45	2.94
1510	155	160	5.0	9	7		5	3	3						15	1.06
	160	165	5.0	3											15	0.44
1520	165	170	5.0	6	1										45	0.95
	170	175	5.0	1											15	0.14
-1530	175	180	4.6		2										45	0.33
1520 - 1535	180	185	4.8	16	15	15	13	3	5	17					45	12.23
	185	190	4.8	16	21	3	5	5	3						15	3.50
	190	195	4.8	15	11										15	3.92
	195	200	5.0	23	13	3	2								15	5.85



1365-1530
Avg 2.37%

200	205	5.0	10	22	3	14	8		4
205	210	5.0	16	14	17	2			
210	215	4.8	14	13	6	5		13	
215	220	4.2	7	2	5	5			
220	225	5.0	13	7	9	8	3		
225	230	5.0	15	14	6		3		
230	235	4.8	11	14	15	13	3	9	
235	240	4.6	14	15	10	4	3	10	4
240	245	5.0	18	13	12				
245	250	5.0	16	14	8	6	5	12	4
1600-1605	250	255	5.0	13	8	5	4	3	
255	260	5.0	12	21	6	2	5		
260	265	5.0	6	11	11	4		9	
265	270	5.0	21	12	9	10	8	6	
270	275	5.0	7	10	23	10	3	3	
275	280	5.0	14	15	11	2			
280	285	5.0	17	25	3	4	3	3	4
285	290	5.0	23	14		2	3	9	
290	295	5.0	16	15	8	2			
295	300	5.0	10	11	5	2	5		
300	305	4.2	33	25	17	7	4	7	5
305	310	5.0	18	17	14	3	8	24	3
310	315	5.0	7	12	6		3		8
315	320	4.5	8	6	3	7			
320	325	4.1	1	2	4				
325	330	3.9	9	1	4				
330	335	5.0	21	6	2	4			
335	340	4.9	9	6					
340	345	4.9	17	8	2	6			
345	350	5.0	12	10	6	2	5		8
1700-1705	350	355	4.3	22	10	7	7	3	5
355	360	5.0	13	12	6	10		3	16
360	365	5.0	20	21	2	4	3	13	4
365	370	5.0	17	23	3	4		6	
370	375	5.0	17	25	23	6			
375	380	5.0	23	23	12	4			
380	385	5.0	13	15	17	10		6	
385	390	5.0	16	30	14	8	8	12	
390	395	4.9	9	6	5				
395	400	4.5	20	13	17	4	9	7	

45	8.34	R
45	7.14	R
45	7.52	R
45	2.72	Y
45	5.81	P
45	5.53	P
45	11.27	R
45	3.90	R
45	6.84	P
45	9.50	R
45	4.71	O
45	6.70	P
45	7.74	R
45	9.57	R
45	3.10	R
45	6.11	P
45	9.50	R
45	7.44	R
45	5.97	P
45	4.79	O
45	14.21	R
45	15.51	R
45	5.16	P
45	3.95	O
45	1.07	Y
45	1.93	Y
45	4.71	O
45	2.25	Y
45	4.81	O
45	6.84	P
45	7.96	R
45	10.61	R
45	10.47	R
45	3.47	R
45	10.98	R
45	9.14	R
45	3.91	R
45	12.81	R
45	2.85	Y
45	10.22	R

400	405	4.7	10	9	2	2	3												
405	410	5.0	17	20	17	6	8												
410	415	5.0	19	19	6			6											
415	420	5.0	12	9	11	8	3	12											
420	425	5.0	15	11	6	8	5	6											
425	430	4.9	24	16	12	12	3												
430	435	5.0	22	9	5		3	3											
435	440	5.0	18	10	9	4	3	5											
440	445	4.7	19	14	3														
445	450	4.1	16	15	4														
1800-1805	450	4.2	17	12	14	5			10										
455	460	5.0	22	20	17	4		12											
460	465	5.0	21	13	20	6	3												
465	470	4.3	28	12	3	5													
470	475	5.0	17	20	14	10		3	4										
475	480	5.0	26	25	21	22	15	15											
480	485	4.0	23	26	14	10	10	4											
485	490	4.3	30	35	9	9	12	3	5	6	14								
490	495	4.4	19	11	7														
495	500	4.8	34	22	9	10	3	3											
500	505	2.0	13	13	8														
505	510	4.8	24	20	13	10	5												
510	515	5.0	16	11	6	6	3	3											
515	520	5.0	23	11	8	6													
520	525	5.0	11	7	5	4	5												
525	530	5.0	11	8															
530	535	4.0	11	14	10	10	5	8											
535	540	4.8	17	15	3	8	5	13											
540	545	4.8	18	25	18	13	3	13											
545	550	4.8	20	20	9	19		3	4										
550	555	4.7	15	12	12	2													
1900-1905	555	4.7	14	17	9	4	9	10		11									
560	565	4.4	11	22	7	16		10											
565	570	5.0	11	13	11	6	3	9											
570	575	4.6	3	2	5	9	11	13	9	5									
575	580	5.0	7	9	3		3												
580	585	5.0	1																
585	590	5.0	2	4	3														
590	595	4.7	4	3		4													
595	600	3.7	16	12	15	3		4											

45	3.52	O
45	9.37	R
45	7.37	R
45	7.96	R
45	7.51	R
45	9.91	R
45	5.97	P
45	7.23	R
45	5.25	P
45	5.03	P
45	3.33	R
45	10.90	R
45	9.07	R
45	7.71	R
45	9.94	R
45	13.27	R
45	12.52	R
45	17.99	R
45	5.53	P
45	12.05	R
45	4.61	O
45	10.59	R
45	6.49	P
45	6.92	P
45	4.54	O
45	2.80	Y
45	8.57	R
45	8.82	R
45	12.88	R
45	11.05	R
45	5.80	P
45	10.49	R
45	9.63	R
45	7.59	R
45	8.40	R
45	3.17	O
45	0.14	G
45	1.93	Y
45	1.64	Y
45	7.27	R

2	600	605	5.0	9	8	6		3	6	4
	605	610	5.0	6	3	3				
	610	615	5.0	12	14	11	6	5	3	
	615	620	4.9	9	16	11	8	15	3	3
	620	625	5.0	7	15	11	2	5	3	
	625	630	5.0	17	17	11	4	13		4
	630	635	3.1	16	26	10	5		5	13
	635	640	4.5	9	3	13	4	3	7	
	640	645	4.5							
	645	650	4.4	7	8					
2000-2005	650	655	5.0	4	7	5	4			
	655	660	4.3	10	14	3	9			
	660	665	5.0	17	21	3	4			3
	665	670	5.0	15	12	2	4			
	670	675	4.4	9	9	3	7			
	675	680	4.1		2					
	680	685	4.1			7				
	685	690	4.5	9	9	3				
2040-2042	690	692	2.0	5	3					

45	5.16	P
45	1.70	Y
45	7.87	R
45	10.45	R
45	6.13	P
45	9.50	R
45	11.05	R
45	6.79	P
0	0.00	G
45	2.09	Y
45	3.10	O
45	5.49	P
15	7.81	R
45	4.79	O
45	4.19	O
45	0.95	G
45	1.07	Y
45	3.03	O
45	1.10	Y

1530-2025 1365-2025
 Avg 7.34% Avg 6.10%

APPENDIX 2

MAGNETIC SUSCEPTIBILITY READINGS FOR DDH 84-1

MAGNETIC SUSCEPTIBILITY READING FOR 84-1

FOOTAGE	READING	FOOTAGE	READING	FOOTAGE	READING	FOOTAGE	READING	FOOTAGE	READING
23.0	0.0	334.0	0.2	717.0	0.0	1037.0	0.0	1349.0	3.1
28.0	0.0	336.0	0.4	727.0	0.0	1047.0	0.0	1352.0	3.6
34.0	0.0	339.0	0.2	735.0	0.0	1057.0	0.0	1358.0	8.3
44.0	0.0	344.5	0.1	745.0	0.0	1067.0	0.0	1365.0	7.5
54.0	0.0	352.0	0.0	755.0	0.0	1077.0	0.1	1375.0	8.2
64.0	0.0	361.0	0.0	765.0	0.0	1087.0	0.0	1385.0	4.4
74.0	0.0	371.0	0.0	771.0	0.0	1097.0	0.0	1395.0	8.0
79.0	0.0	381.0	0.1	777.0	0.0	1104.0	0.3	1405.0	5.0
82.0	0.0	391.0	0.1	786.0	0.0	1105.0	0.3	1415.0	9.1
91.5	0.1	400.5	0.0	794.0	0.0	1106.0	0.3	1425.0	6.5
95.0	0.0	410.5	0.0	804.0	0.0	1107.0	0.3	1433.0	4.3
97.0	0.0	414.0	0.0	814.0	0.0	1108.0	0.3	1443.0	5.0
103.0	0.0	424.5	0.1	824.0	0.1	1117.0	0.0	1453.0	2.4
109.0	0.0	435.0	0.0	831.0	0.0	1120.0	0.1	1463.0	11.3
117.0	0.0	445.0	0.0	836.0	0.0	1122.0	0.0	1473.0	8.0
127.0	0.0	448.0	0.0	837.0	0.1	1127.0	0.0	1483.0	3.1
137.0	0.0	457.0	0.1	847.0	0.1	1137.0	0.0	1492.0	4.5
147.0	0.0	467.0	0.0	852.0	0.0	1147.0	0.1	1497.0	2.7
154.0	0.0	474.5	0.0	857.0	0.1	1157.0	0.0	1507.0	5.7
164.0	0.0	476.5	0.0	862.0	0.0	1164.0	0.0	1515.0	2.7
173.0	0.1	487.0	0.1	867.0	0.1	1168.0	0.0	1523.0	3.1
177.0	0.0	497.0	0.1	877.0	0.1	1174.0	0.0	1530.0	4.6
187.0	0.0	507.0	0.0	887.0	0.0	1180.0	0.0	1535.0	10.5
197.0	0.0	517.0	0.0	897.0	0.0	1187.0	0.0	1540.0	8.0
207.0	0.0	527.0	0.0	907.0	0.0	1197.0	0.1	1547.0	
217.0	0.0	537.0	0.0	915.0	0.0	1207.0	0.1	1553.0	
223.0	0.0	547.0	0.0	919.0	0.0	1217.0	0.1	1563.0	
228.0	0.0	557.0	0.0	920.0	0.1	1227.0	0.0	1570.0	
232.0	0.1	559.5	0.0	923.0	0.0	1237.0	0.1	1579.5	
237.0	0.0	567.0	0.0	925.0	0.1	1246.0	0.6	1590.0	3.0
241.0	0.0	577.0	0.0	932.0	0.0	1255.0	4.6	1598.0	3.5
251.0	0.0	587.0	0.0	940.0	0.1	1265.0	6.4	1605.0	3.0
257.0	0.0	597.0	0.0	947.0	0.0	1273.0	3.8	1610.0	4.6
267.0	0.0	607.0	0.0	952.0	0.1	1277.0	8.3	1617.0	4.0
274.0	0.0	617.0	0.1	955.0	0.1	1284.0	5.2	1625.0	10.5
279.0	0.0	627.0	0.1	957.0	0.1	1294.0	5.5	1633.0	5.0
287.0	0.0	637.0	0.1	959.0	0.1	1297.0	2.8	1642.0	7.0
297.0	0.0	647.0	0.0	967.0	0.0	1303.0	4.8	1648.0	4.2
303.0	0.1	657.0	0.0	972.0	0.1	1306.0	6.0	1656.0	2.8
303.0	0.0	667.0	0.1	977.0	0.0	1312.0	5.6	1666.0	2.7
303.0	0.0	672.0	0.0	987.0	0.0	1321.0	5.5	1666.0	4.5
310.0	0.0	677.0	0.1	997.0	0.0	1326.0	4.5	1672.0	5.3
317.0	0.0	687.0	0.1	1007.0	0.0	1333.0	5.3	1672.0	5.0
327.0	0.0	697.0	0.0	1017.0	0.0	1341.5	4.3	1676.0	2.2
334.4	0.1	707.0	0.0	1027.0	0.0	1345.0	4.1	1676.0	1.0
								1685.0	4.5

APPENDIX 3

ITEMISED COST STATEMENT

APPENDIX 3

ITEMISED COST STATEMENT

Diamond Drilling

Drilling Costs - 406 m HQ, 216 m BQ, sliding rate scale	\$46,499.65
Materials	7,456.51
Reaming and hole stabilization	1,676.40
Standby	447.00
Casing left in hole	765.79
Mobilization/Demobilization	7,230.00
Drillers food and accommodation - 68 man-days @ \$52/man-day	3,536.00
Helicopter - 3.7 hrs. @ \$527.50/hr.	1,951.75

Support

Supervision - July 23 - Aug. 3/84 - 12 days @ \$300/day	3,600.00
Geologist - July 20 - Aug. 12/84 - 24 days @ \$145/day	3,480.00
Technician - July 25 - July 27/84 - 3 days @ \$129/day	387.00
Assistant - Aug. 9 - Aug. 10/84 - 2 days @ \$ 65/day	130.00
Food and accommodation - 41 man-days @ \$52/man-day	2,132.00
Vehicle - Chargeout, 24 days @ \$35/day	840.00
Fuel and repairs @ \$18/dy	432.00
Travel - 2 men, Vancouver-Cassiar Return	1,000.00

TOTAL \$90,217.15

APPENDIX 4

STATEMENTS OF QUALITICATIONS,
R.S. HEWTON and I.A. LYN

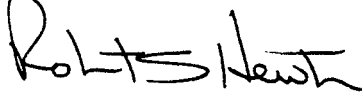
STATEMENT OF QUALIFICATIONS

I, Robert S. Hewton of West Vancouver, British Columbia, hereby certify that:

- 1) I am a geologist residing at 2709 Marine Drive, West Vancouver, B.C. and am currently employed by Brinco Mining Limited of #704 - 602 West Hastings Street, Vancouver, B.C. V6B 1P2.
- 2) I graduated from McMaster University, Hamilton, Ontario with a B.Sc. in geology in 1969 and have practised my profession since.
- 3) I am currently registered with the Association of Professional Engineers for the Province of British Columbia, registered with the Association of Professional Engineers of Yukon Territory, and a Fellow of the Geological Association of Canada.
- 4) Work on the property was done by me or under my direct supervision.

Respectfully,

BRINCO MINING LIMITED

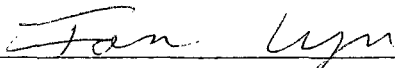


R.S. Hewton, P.Eng.

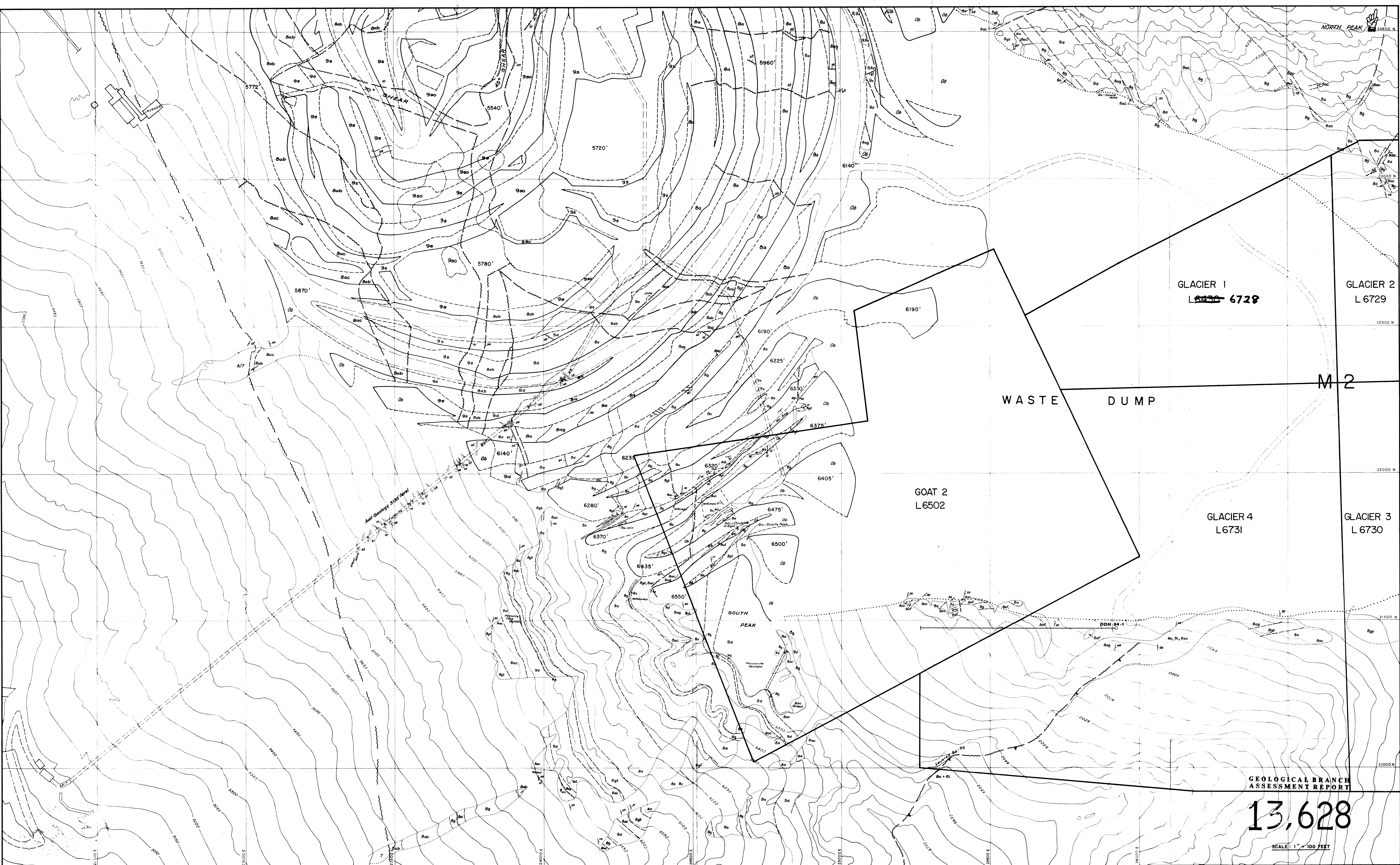
STATEMENT OF QUALIFICATIONS

I, Ian A. Lyn, of 32B West 11th Avenue, Vancouver, B.C. hereby certify that:

- 1) I received a Bachelor of Science degree in geology from the University of Toronto in 1978.
- 2) I am a member of the Canadian Institute of Mining and Metallurgy, and Associate of the Geological Association of Canada.
- 3) I have been employed by Brinco Mining Limited since 1978.



Ian A. Lyn



Legend

Ob overburden

ALLOCHTHONOUS
DEVONIAN - MISSISSIPPIAN

9 Ultramafite, unfoliated
9a Serpentine
9a0 Serpentine with asbestos ore
9a Diarite gabbro
9a Alteration zone around serpentinite
8 Sylvester Group, unfoliated
8a Argillite
8ab Argillite, black, graphic, relatively soft
8ac Argillite with ribbon cherts
8af Argillite with greenstone fragments
8ag Argillite with greenstone tuff beds

AUTOCHTHONOUS

7 Mc Dams Group, Limestone, Dolomite
6 Sanjia Group, Dolomite, Quartzite
5 Kechika Group, Black argillite

8aL Liny argillite
8g Greenstone
8gf Greenstone flow
8gc Cherty Greenstone
8gt Greenstone tuff
8gp Greenstone pillowed
8L Limestone; thin beds, replaced by chert
8Qc Quartz-carbonate Alteration Zones

SYMBOLS

○ Outcrop
⚡ Beating
~ Fault with dip
— Contact
— Road
— Toe of slope
— Draw of slope
— Claim line from mine plans

NOTE: Pit geology from mine maps

GEOLOGICAL BRANCH
ASSESSMENT REPORT

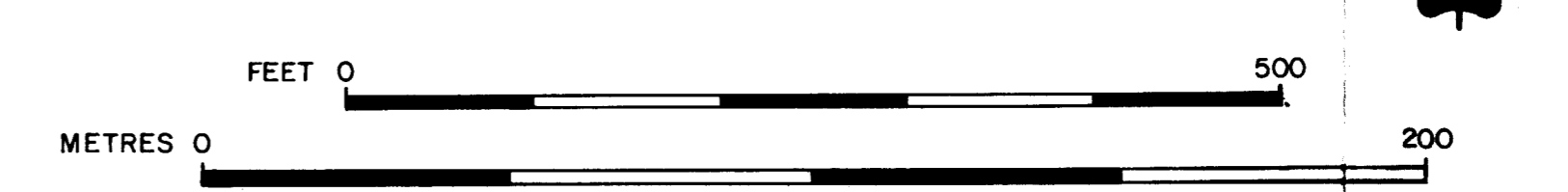
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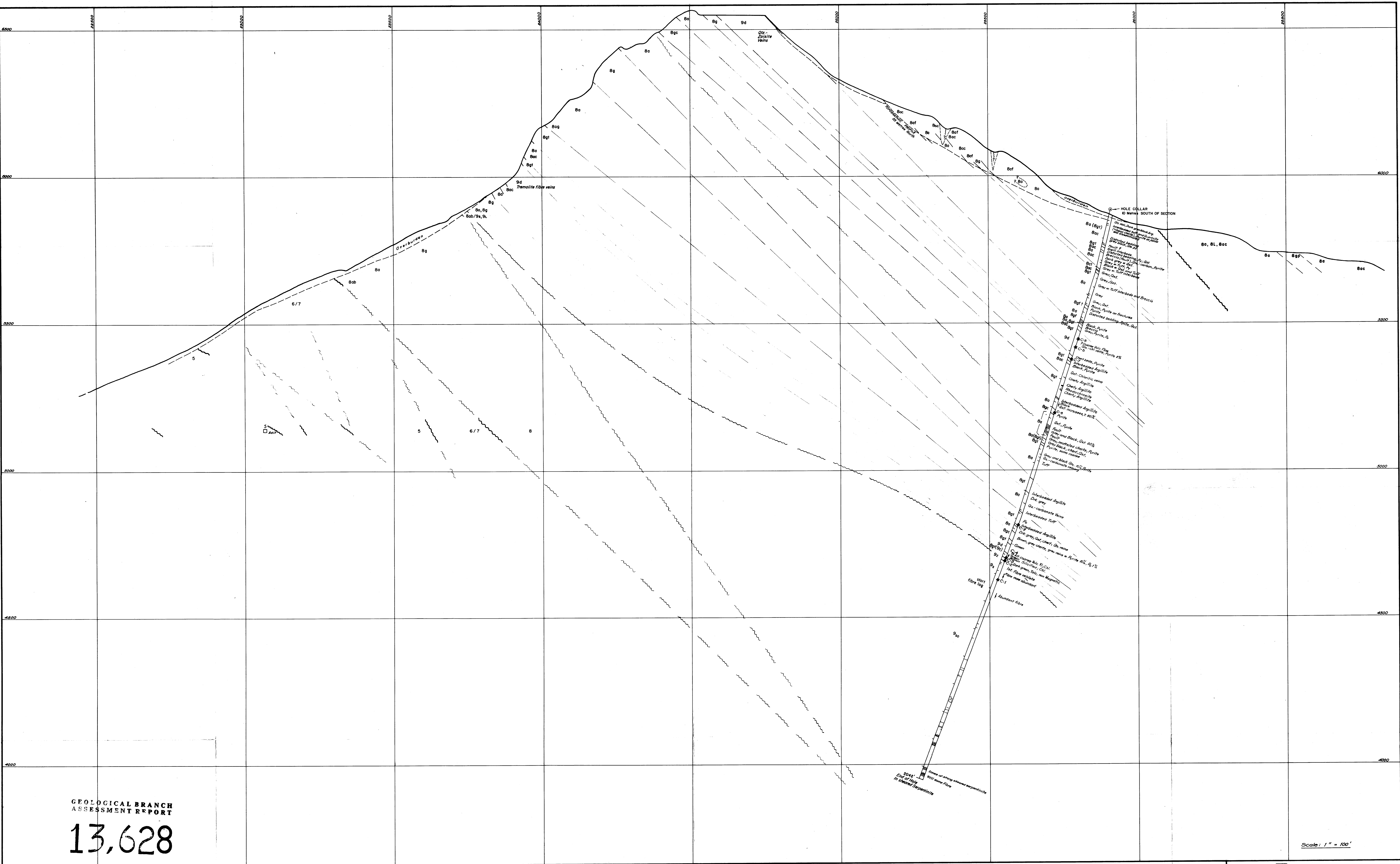
SCALE: 1" = 100 FEET

Brinco
MINING LIMITED

CASSIAR - McDAME
SOUTH PEAK GEOLOGY

DRAWN BY: I.L.	DATE: 1 DECEMBER 1984	FIGURE 5
TRACED BY: C.D.	N.T.S. 104 P/5	
CHECKED BY:	APPROVED BY:	





GEOLOGICAL BRANCH
ASSESSMENT REPORT
13,628

Scale: 1" = 100'

LEGEND DEVONIAN-MISSISSIPPIAN SYLVESTER ALLOCHTHON 9 ULTRAMAFITE, UNDIFFERENTIATED 9s SERPENTINITE 9so SERPENTINITE WITH ASBESTOS ORE 9d DIORITE / GABBRO 9z ALTERATION ZONE AROUND SERPENTINITE		8 SYLVESTER GROUP UNDIFFERENTIATED 8d ARGILLITE 8ab ARGILLITE, BLACK, GRAPHITIC, RELATIVELY SOFT 8ac ARGILLITE WITH RIBBON CHERT (QUARTZITE ?) 8al LIMY ARGILLITE		8ag ARGILLITE WITH GREENSTONE TUFF BEDS 8af ARGILLITE WITH GREENSTONE FRAGMENTS 8g GREENSTONE 8gt GREENSTONE TUFF 8gf GREENSTONE FLOW		8gc CHERTY GREENSTONE 8L LIMESTONE AUTOCHTHONOUS PLATFORM DEVONIAN 7 MIDAME GROUP, LIMESTONE, GREY-BLACK, FETID; BLACK DOLOSTONE; SPAGHETTI CHALK		ORDOVICIAN, SILURIAN, DEVONIAN (?) 6 SANDPILE GROUP, INTERBEDDED QUARTZITE, DOLOSTONE, MINOR PHYLLITE CAMBRIAN - ORDOVICIAN KECHIKA GROUP 5 THIN BEDDED BLACK SHALES, VOLCANIC, ARGILLITES and LIMESTONE		DIAMOND DRILL HOLE Lithologies Comments CONTACT DIP OF CORE INTERVAL DIVISION FAULT SHEAR ZONE BRECCIA * PETROGRAPHIC SAMPLE		Qtz - QUARTZ Qtz - QUARTZITE Chl - CHLORITE Py - PYRRHOTITE	
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Brinco
MINING LIMITED

CASSIAR - McDAME
SECTION 21500 N
DDH 84-1

DRAWN BY: I.L. DATE: DECEMBER 1984
 TRACED BY: C.O. H.T.S. 104 P/5
 CHECKED BY: I.L. APPROVED BY:

FIGURE 6

