

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
MINISTRY OF ENERGY AND MINES
GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR: 1995/1996

REPORT #: PAP 95-55

NAME: ROBERT KOMARECHKA

**THE DOLLY MARBLE PROPERTY
- GEOLOGICAL REPORT**



THE DOLLY MARBLE PROPERTY

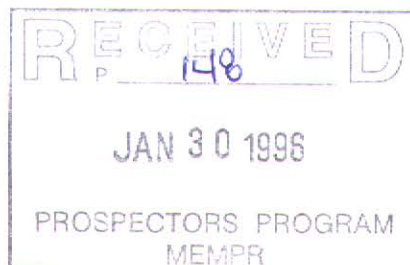
** GEOLOGICAL REPORT **



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January 13, 1995



**BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)**

CEIV
148
JAN 30 1998

B. TECHNICAL REPORT

PROSPECTOR

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations, section 15, 16 and 17.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name ROBERT KOMARECHKA Reference Number 95/96 P148

LOCATION/COMMODITIES

Project Area (as listed in Part A) DOLLY MARBLE MINFILE No. if applicable ?

Location of Project Area NTS BZM/10 Lat 51° 40' Long 118° 35'

Description of Location and Access 100km NORTH OF REVELSTOKE, 4km E OF CONFLUENCE OF GOLDSTREAM & COLUMBIA RIVERS, ACCESS VIA HWY 23, 100km N OF REVELSTOKE, THEN TURN ON GOLDSTREAM MINE ROAD FOR 5km, THEN TURN LEFT ON CANOE TAKE OUT ROAD 4.1 km THEN TURN LEFT UP HILLSIDE ON TO PROPERTY.

Main Commodities Searched For WHITE MARBLE & DIMENSION STONE.

Known Mineral Occurrences in Project Area GOLDSTREAM MINE, TALC, PLACER GOLD, GOLD IN QZZ (OLE BULL - STANMACK)

WORK PERFORMED

1. Conventional Prospecting (area) 5.5 km
2. Geological Mapping (hectares/scale) ~~275 Ha~~ 275 Ha @ 1:5,000 SCALE.
3. Geochemical (type and no. of samples) 15 ROCK SAMPLES + 3 MICRO ROCK SAMPLES
4. Geophysical (type and line km) N/A
5. Physical Work (type and amount) STRIPPING, WASHING, TRAIL BUILDING, DRILLING, BLASTING, PLACER
6. Drilling (no., holes, size, depth in m, total m) 10 HOLES, 1 1/2" Ø, 260 mdp TOTAL BLK SAMPLING.
7. Other (specify) 1.5m SEE RPT. ←

SIGNIFICANT RESULTS

Commodities WHITE DOLOMITIC MARBLE. Claim Name _____

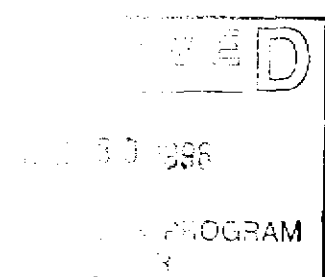
Location (show on map) Lat 51° 40' Long 118° 35' Elevation 2,500'

Best assay/sample type PLACER DOLOMITE - .3% SiO₂, .05% Al₂O₃, .14% Fe₂O₃, 21.75% MgO, 30.27% CaO, .04% Na₂O, <.04% K₂O, <.01% TiO₂, .068% P₂O₅, .01% MnO, .0038% Cr₂O₃

Description of mineralization, host rocks, anomalies 96.38661
ABUNDANT WHITE DOLOMITIC MARBLE + 1 MILLION TONNES
FRACTURING CONDUCTIVE TO SCALING ALONG PARALLEL JOINTING
ANOMALOUS +6% BrO NOTED.

- SEE ATTACHED REPORT.

THE DOLLY MARBLE PROPERTY GEOLOGICAL REPORT



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GEOLOGICAL REPORT on the DOLLY MARBLE PROPERTY

INTRODUCTION

In the fall of 1993, a significant extension of a tectonically thickened, folded, dolomitic marble segment, of the lower Cambrian age, Badshot Formation was encountered. Due to its immense size and brilliant white colour the area was staked. Two years later, this fall, a program was undertaken to ascertain the extent, dimension stone quality and other high value product potential of this marble. This program involved reconnaissance mapping on the Dolly Claims and surrounding area as well as the preparation of a face and removal of a bulk sample. This report outlines this work and the results obtained.

Acknowledgment is given to the British Columbia Government and the Ministry of Energy, Mines and Petroleum Resources for their financial assistance of PAP funding which made this report possible.

TARGET

High brightness and chemically pure white marble suitable for higher end market uses. This material has been found to occur within covered by the Dolly Claim Group.

PROPERTY NAME

The 11 claims comprising this study area have been grouped under the name **The Dolly Claims**. The name the Dolly Marble Property refers to this same area.

LOCATION

The Dolly Marble Property is located about 100 road kilometers north of the city of Revelstoke, B.C. or more exactly, 4 kilometers east of the confluence of the Goldstream and Columbia Rivers. It is located within the Revelstoke Mining Division and is found within the Hoskins Creek map - NTS 82M/10.

ACCESS

Two wheel drive road access to the property is obtained by driving 90 kilometers northward on Highway #23 from the intersection of the Trans Canada highway in Revelstoke, then, turning right on to Bethlehem's

DRIVING DISTANCES
CANADA (1100 Miles) U.S.A. (1000 Miles)
MILES PER HOUR (M.P.H.)



LEGEND

THIS MAP PUBLISHED ANNUALLY BY THE
AMERICAN AUTOMOBILE ASSOCIATION
HEATHROW, FL 32746 1995 EDITION



ROAD TYPES

- Interstate
- Expressway
- Arterial
- State
- County
- Local
- Trail

CONTROLLED ACCESS

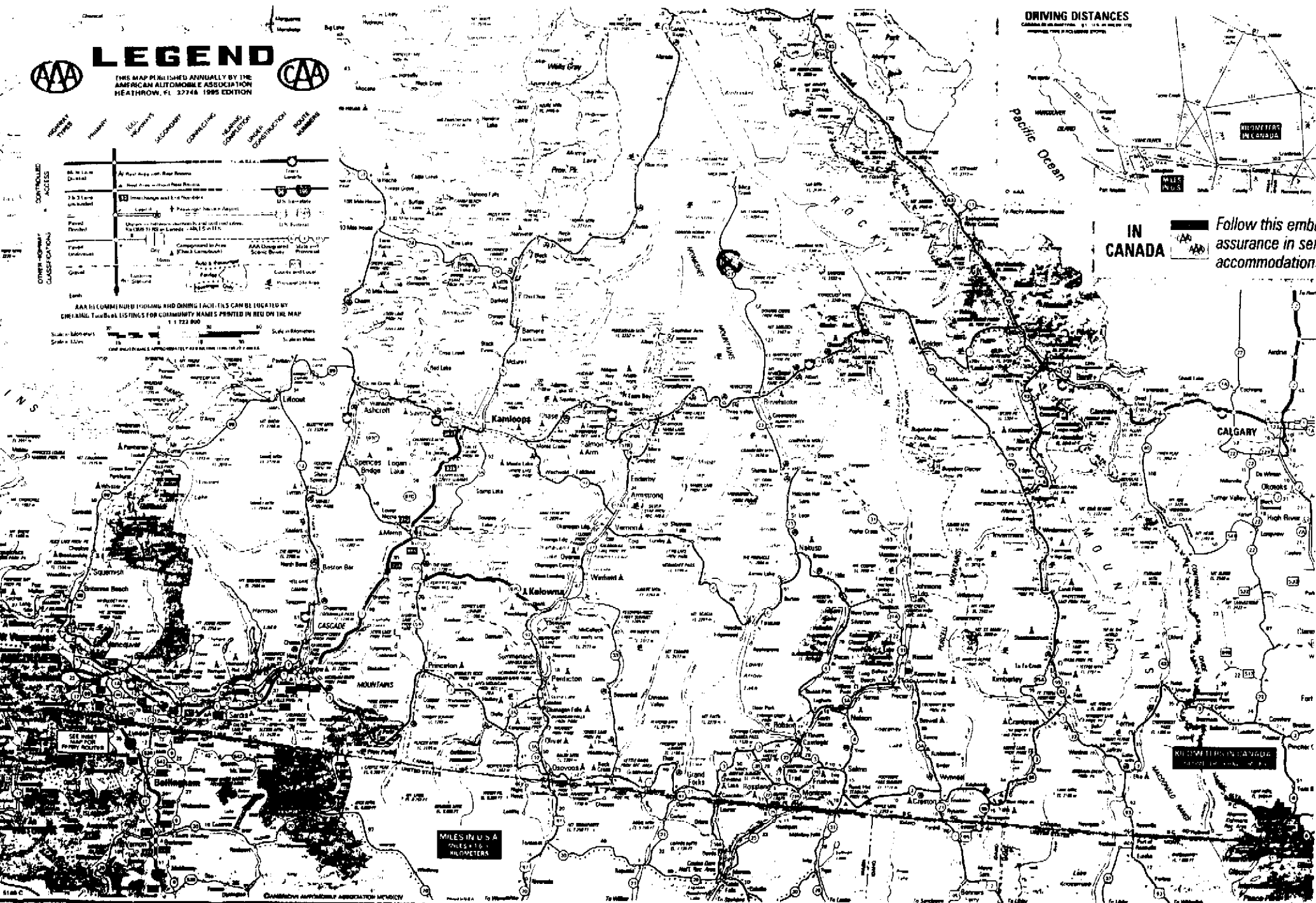
- Controlled Access
- Controlled Access
- Controlled Access
- Controlled Access
- Controlled Access
- Controlled Access

OVERHEAD CLASSIFICATIONS

- Overhead Classification
- Overhead Classification
- Overhead Classification
- Overhead Classification
- Overhead Classification
- Overhead Classification

AAA RECOMMENDED DRIVING ROUTES AND DRIVING FACILITIES CAN BE LOCATED BY CHECKING THE LOCAL LISTINGS FOR COMMUNITY NAMES PRINTED IN RED ON THE MAP

Scale in Kilometers: 0 10 20 30
Scale in Miles: 0 10 20 30



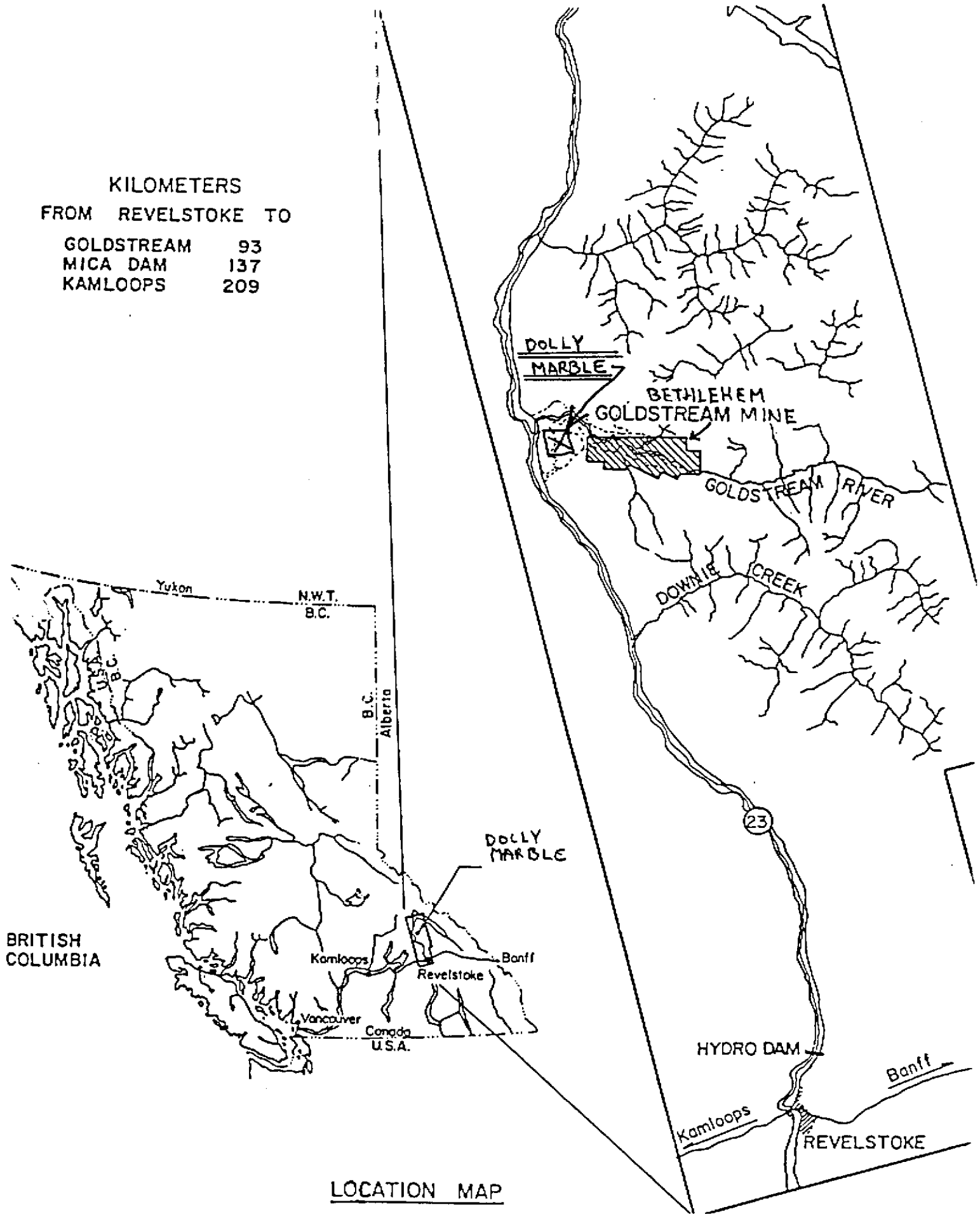
IN CANADA Follow this emblem assurance in service accommodation
CAA AAD

MILES IN U.S.A
KILOMETERS

MILES IN U.S.A
KILOMETERS

KILOMETERS
FROM REVELSTOKE TO

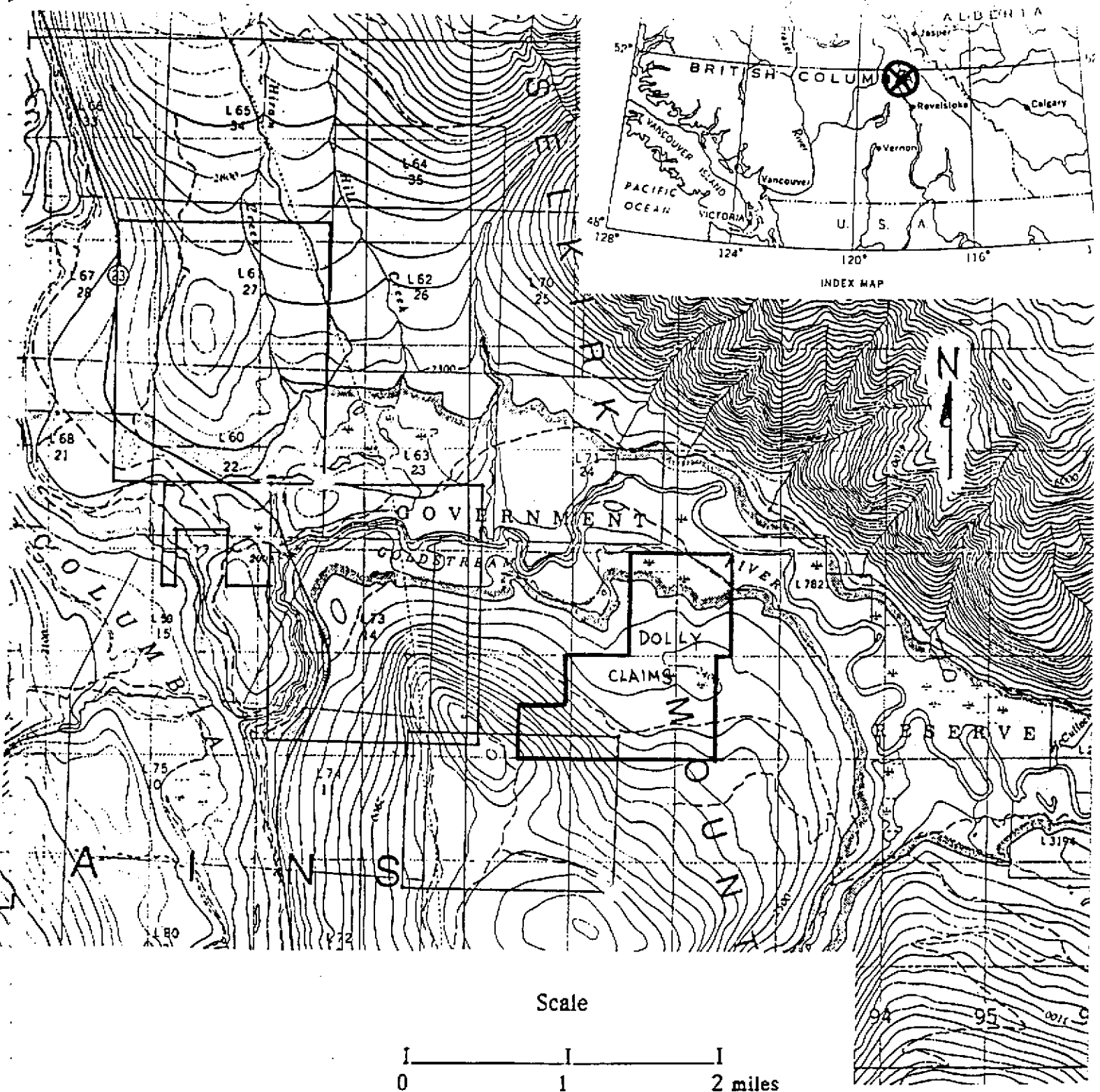
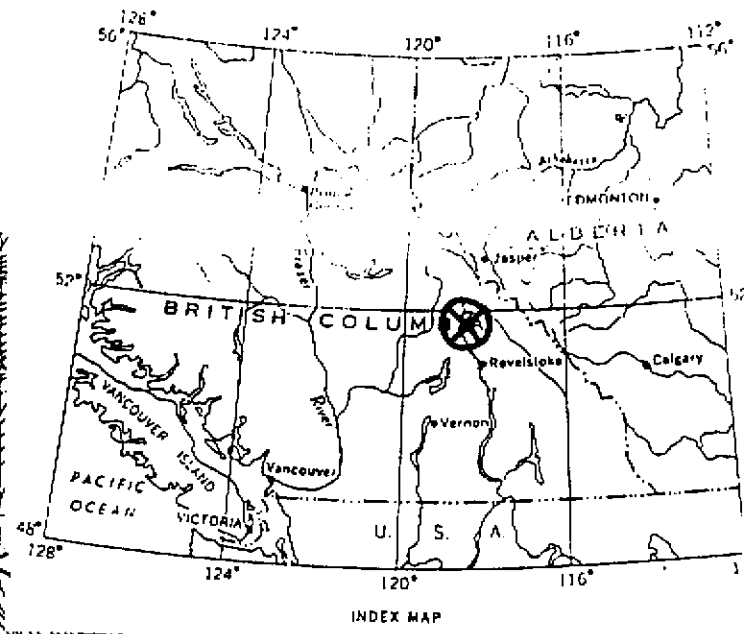
GOLDSTREAM	93
MICA DAM	137
KAMLOOPS	209



LOCATION MAP

FIGURE #1

Map 2 LOCAL Index Map



Reproduced from Hoskins Creek topographical map 82M/10

Map 2
LOCAL
Index Map

Goldstream mine road for about 5 kilometers then turning left along the canoe take out road for 4.1 kilometers where a recently constructed good logging road branches to the left, up the side of the hill, to the property. See attached maps 1, 2, 4 and figure 1.

CLAIM OWNERSHIP & STATUS

This property consists of 11 - 2 post mineral claims recorded in the name of Robert Gerald Komarechka, FMC#114456, of Apt. #1 537 Haig Street, Sudbury, Ontario, P3C 1E2. An unregistered 1/3 interest is held by each of Gord Hurlburt of #43 1815 Varsity Estates Dr. N.W., Calgary, Alberta, T3B 3Y7, Kory Koke of 2612 13th Ave., N.W., Calgary, Alberta, T2N 1L9 and the recorded holder. Adequate assessment work has been carried out on this property to hold all 11 claims into the year 2000. The claims comprising this property are listed below:

Tag #	Tenure #	Claim Name	Units & Type
640701	322588	DOLLY 1	1 unit 2 post mineral claim
640702	322589	DOLLY 2	1 unit 2 post mineral claim
664203	340473	DOLLY 3a	1 unit 2 post mineral claim
640708	322591	DOLLY 4	1 unit 2 post mineral claim
651299	322597	DOLLY 10	1 unit 2 post mineral claim
651300	322598	DOLLY 11	1 unit 2 post mineral claim
651301	322599	DOLLY 12	1 unit 2 post mineral claim
651302	322600	DOLLY 13	1 unit 2 post mineral claim
651303	322601	DOLLY 14	1 unit 2 post mineral claim
651304	322602	DOLLY 15	1 unit 2 post mineral claim
651305	322603	DOLLY 16	1 unit 2 post mineral claim

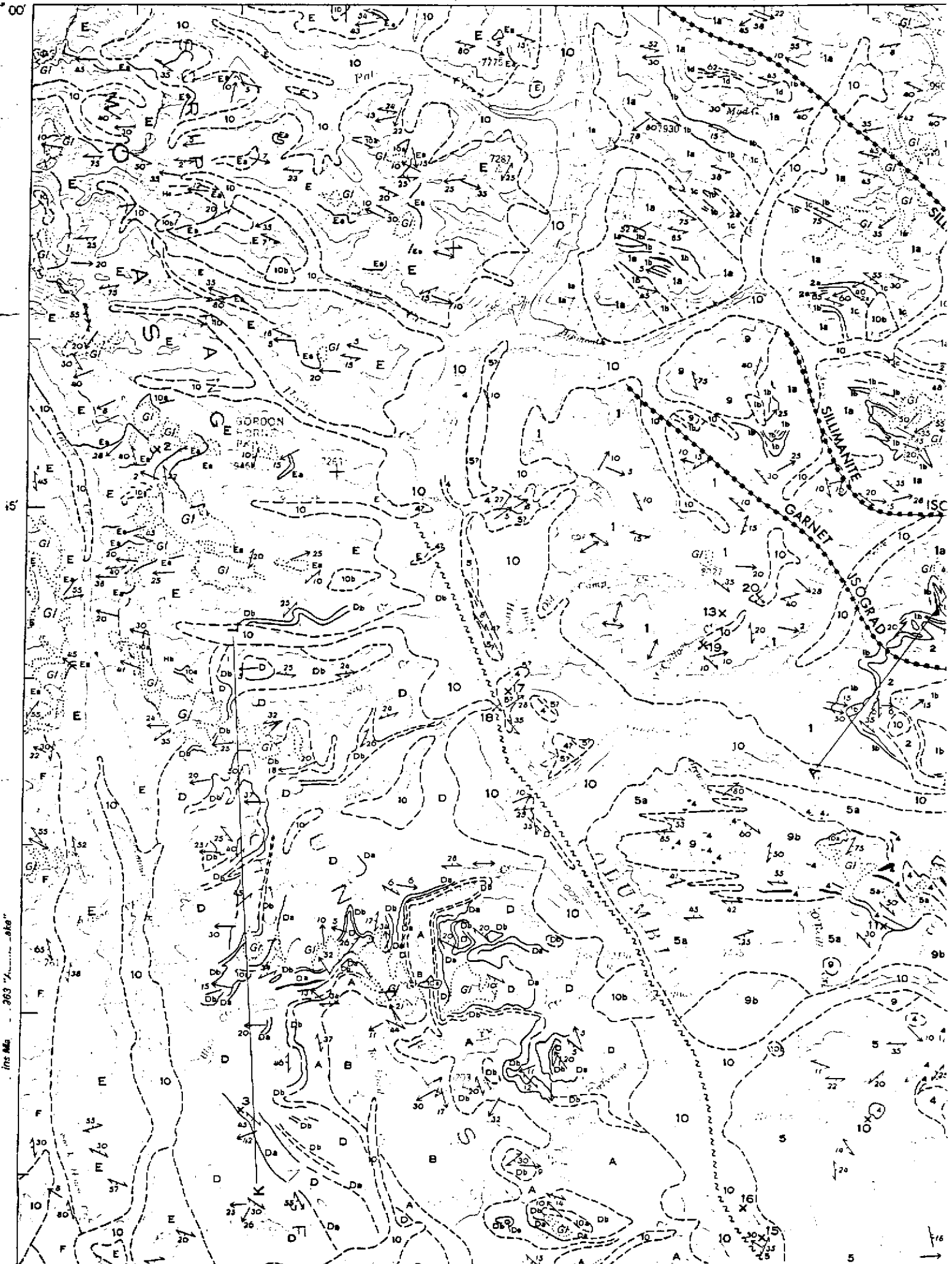
OPTIONS or CONTRACTUAL OBLIGATIONS

No contractual obligations exist on these claims at this time.

LOGISTICAL CONSIDERATIONS

The Dolly Marble Property is strategically positioned for ease of development. It lies on a well drained gentle slope drained by several small creeks. A good two wheel drive road and numerous 4wd trails provide easy access over most of the property. The majority of the property has also been recently logged facilitating further evaluation of this ground. A power line servicing the nearby Goldstream copper mine crosses the northeast corner of the property just as the road enters the claim group and could supply power to equipment on the site.

The Dolly Claims are located within an Integrated Management Land Use Zone. Such areas, with appropriate approvals, can accommodate intense resource development. As of this year approval for removal of a bulk sampling from this property has been given by the Land Management and

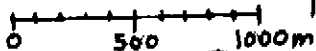


1:250,000

BOMIDE

Map 4 - Local Geology & Claim Status (as of October 1995)

SCALE



BEIGE / LIGHT GRAY
DOLOMITE

Hilman



TIGHT WAP
Reduced
310779
21065 2NX1E

HYDRO. LINE

eam

29945
REQUIRE
670496
682235

RESERVE

218510
111161
320004
219509

GRAY

BANDED MARBLE
DOLOMITIC

DOLLY 1
322594
DOLLY 2
322595
DOLLY 3
322596
DOLLY 4
322597

WHITE CALCINE
DOLOMITIC
BANDED
MARBLE

DOLLY 10 322597	DOLLY 11 322598	DOLLY 12 322599	DOLLY 13 322600	DOLLY 14 322601	DOLLY 15 322602
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WHITE MARBLE

NAME

THE
DOLLY
CLAIMS

RATE
248449 047
2967
1NX1E

GR 4
247887
1526
REDUCED
2NX5E

GR 3
247886
1525
REDUCED

F.A.R.
246497
110335

Policy Branch of the Ministry of Energy, Mines & Petroleum Resources in Kamloops. A cash reclamation security deposit for this work has also been accepted on this property by the Land Management Branch.

The recent announcement of the closure of the Goldstream mine may provide an opportune moment for the acquisition of equipment and logistic facilities for the development of this property now.

REGIONAL, LOCAL & PROPERTY GEOLOGY

Regionally, the Dolly Claims are located within the western portion of the Selkirk Mountains near the contact with the Shuswap Metamorphic Complex. A fault in the bed of the Columbia River divides the Selkirks to the east from the Monashee Mountains in the Shuswap Complex to the west. The rocks in the vicinity of the claims are moderately metamorphosed (greenschist facies) with the metamorphic grade increasing in intensity to the northwest (Wheeler, 1965). Regionally, foliation tends to strike from about 270-360°. Dips vary widely depending on fault block orientation and folding. The original strike of most beds was likely from the northwest to southeast, but up to three phases of deformation (Hoy, 1979) complicates the situation.

The oldest rocks in this area are the Proterozoic and/or Lower Cambrian rocks of the Horsethief Creek Group. Lithology includes dark gray to dark brown slates and phyllites with scattered bands of quartz-mica schist, quartzite and impure marble. Limy and arenaceous bands are common near the top where the contact with the overlying Hamill Group is probably transitional. The recessive nature of this formation and the presence of rotated blocks makes identification and the determination of structural relationships difficult.

Of Lower Cambrian age and overlying the Hamill Group is the Badshot Formation. This is a persistent carbonate unit that parallels the Columbia River for several hundred kilometers as far as the south Kootenays (Wheeler, 1965). In the immediate vicinity of the Dolly Claims it is composed of snow-white to buff dolomitic marble with banded gray-white calcitic marble near its base.

Above the Badshot Formation lies the dark gray, frequently graphitic, slates and phyllites of the Lardeau Group. Schist, quartzite and thin marble stringers are known from this group but are not dominant in the map area. Within the Lardeau Group and near the contact of the Badshot lies a talc magnesite trend of pods associated with minor sulphides.

Locally the major rock type consists of a white dolomitic marble of the Badshot Formation. To the north of the local area, the Badshot narrows to an 800 meter band of darker buff to tan microcrystalline dolomite. In the vicinity of the Dolly Claims the dolomite turns to marble becoming whiter and more dense.

No trace of the southern strike continuation was found for the Badshot more than 1 kilometer to the south of the Dolly Claims. This information,

combined with strike and dip measurements, suggest a fold structure, with the Dolly Claims being staked along the eastern tectonically thickened arm of the Badshot. The western arm of this fold structure occurs along the high tension hydro line and the apex of this folded Badshot Marble lies just to the north of the Dolly Claims. It has also been suggested that this area may represent an allochthon slice of inverted stratigraphy (Read & Brown 1981). The result of these two observations suggest an inverted anticlinal structure. From field measurements it is suggested that the axis of this fold structure plunges to the north (see attached map 4).

From outcrop exposures and ripped up bedrock, made apparent by the recent logging activities in this area, it appears that almost all of the area underlain by the Dolly Claims is white dolomitic marble. This wide width (apparently 1200 meters), and the occasional presence of recrystallized coarse grained marble may suggest a tectonic thickening of the Badshot. There appears to be a variation of marble from east to west across this eastern arm. In the cleared area along the east-west claim boundary of Dolly 1 and Dolly 2 it was found that the more eastern exposures of white marble exhibited discontinuous calcitic bands with a faint fuzzy light gray veiling, while the marble exposures west of this area were an even homogeneous bright white colour exhibiting a very fine grained to microcrystalline texture. Going further westward, along the east-west claim boundary between Dolly 3a and Dolly 4, we find an area of white recrystallized medium grained brecciated dolomitic marble. Finally, westward toward the south claim boundary of Dolly 5 we find banded white and gray calcareous marble. It should be noted that these observations are based on some widely spaced outcrops as overburden cover is extensive and of variable thickness. Numerous angular rocks in the disturbed overburden confirm these general observations along other logged areas, southward up the hill, along strike.

CURRENT EXPLORATION STATUS

The current holders of the Dolly Claims, namely, Gord Hurlburt, Robert Komarechka and Kory Koke, have carried out exploration on the Badshot white dolomitic marbles in this area since 1986 and have held claims off and on along the western flank of the fold structure and northward. Assessment work on these claims (the Or Viejo Group) undertaken in the summer of 1987 and 1988 in the form of geological mapping, line cutting of a grid and geochemical analysis indicated an immense reserve in excess of 25 million tonnes of +98% pure dolomite (Meyer, B. H., 1988). Several samples were also cut and took a high gloss when polished. An initial attempt was made to promote this occurrence but problems (with regard to title of these resources since some land had surface rights previously allocated with old timber grants, the high voltage power line right of ways and confusion regarding the staking of dolomite resources at this time of revision of the act) deterred promotion and further development, with the result these earlier claims were allowed to lapse.

As a result of the above assessment mapping, the existence of a possible fold structure with an eastern limb of white dolomitic marble was anticipated but never verified. In November of 1993 as a result of several

claims lapsing in this area, and the recent interest in dimension stone, this area was examined and found to contain extensive unmapped white dolomitic marble. The observation of this marble was made apparent primarily due to the result of clear cutting in this area. Initially a total of 12 claims were staked in this area to cover the majority of this eastern limb occurring on untitled crown land as confirmed in conversations with Phil Wellock, acting Gold Commissioner in Revelstoke and others. One of these claims, Dolly 5 was subsequently dropped in the fall of 1994 due to the marginal grades of marble occurring in the area. Dolly 3 was also dropped but subsequently staked as Dolly 3a in the fall of 1995.

Surface grab samples collected from the proposed area of bulk testing, shown on Map 5, were given to several carvers for their comments. Work continued during the 1995 field season as described on the next page to further evaluate the dimension stone and other uses of this white high grade dolomitic marble.

1995 PAP GRANT WORK PROGRAM 95/96 P148

Fieldwork in 1995 was conducted on this area during the period from September 20, 1995 to October 20, 1995.

Initially work consisted of field observations of outcrop exposures of the area which, despite examination elsewhere, occurred primarily along roads, trails and draws.

A diamond drill program that had originally been proposed had to be canceled as a result of the drill company not having any personnel available to operate a diamond drill located nearby. Expensive mob and demob charges and a limited budget prevented other drills from being brought in.

It soon became apparent from field observations of the limited rock exposures observed, that there were no obvious sites where fracture density would allow extensive surface quarrying for the production of large sound blocks. It was at this time that the original program was modified, following consent of PAP officials, to exclude surface quarrying of a sound block and to include instead the removal of a bulk sample. The purpose of this work was to produce a face about 12' high to ascertain variations in colour, texture and the fracture density at depth.

On approval of this change a 4wd backhoe was hired to strip the site which was then washed by the author. A local drilling and blasting contractor was then hired to carry out drilling with a plugger supplied by the author and other equipment and blasting supplies obtained from the nearby Goldstream mine.

About ten tonnes of blasted material was extracted, loaded into an end dump with a track excavator and transported to a cement manufacturer in Revelstoke. The market potential of this material is currently being studied for the production of precast panels, landscape stone, stucco and various

miscellaneous aggregate uses as well as various dimension stone and filler applications.

Representative grab samples collected during mapping were also sent out for analysis in November. The results of these analysis are shown in appendix #1.

The market analysis and the results of the bulk sampling are still being evaluated.

GEOLOGICAL OBSERVATIONS

A local geological map of the study area has been prepared (Map 4) showing the extent of the marble and the claim status. Variations in the marble, fracture density and orientation, sample locations and the location of the bulk sample site are shown on the Reconnaissance Geology Map (Map 5).

From these maps, despite limited exposures of outcrop (especially within forested regions), it appears that the Dolly claims are primarily underlain by part of the axis and eastern limb of a fold of the Badshot Formation. This was confirmed not only by surface outcrop observations but by numerous angular rocks of solely marble composition being contained within the soil and exposed by both road building and logging operations. Discussions of soil borings undertaken by Silvatech crews in the southern portion of the Dolly Claims also confirmed the presence of this marble in overburden areas.

To the south of this fold the Badshot formation lies on the steeply northward dipping phyllitic and carbonaceous argillitic Lardeau Formation, while to the north of the northern plunging fold and lying above its synformal (actually an overturned anticline) plunge, is the Horseshoe Formation (minor remnants of rusty brown quartzite, possibly Hamill Formation were also encountered along the Badshot-Horseshoe contact outside the map area). Both of these adjacent formations weather recessively relative to the Badshot.

The contact with the later Lardeau Formation was not observed in outcrop within the study area but appears to be rather abrupt. In some areas here is a tendency for the Badshot to develop a yellow to brown weathered iron carbonate near the contact. One spring occurring along this contact was found to be precipitating copious quantities of some reddish brown iron precipitate (possibly FeOH).

The lower Badshot Formation towards the contact with the earlier Horseshoe Formation becomes a banded gray and white calcitic marble with frequent inclusions of schistose and phyllitic rocks. This rock tends to weather recessively and generally appears to be unsuitable for most higher valued dimension stone and aggregate purposes due to presence of phyllitic and quartzite rich bands.

The Upper Badshot Formation on the Dolly Claims, which is the object of this study, is for the most part, a white dolomitic marble, however the following variations exist.

Adjacent to the banded gray calcitic lower Badshot on claim Dolly 3a we have a highly brecciated mottled grayish white dolomitic marble. This brecciation was highly fragmented with fragments ranging in size from 1/4" to several inches in size. On tracing its extent southward it would appear that this breccia zone may represent a structure parallel to the apex of the fold structure. In several locations a trace of a dull dark gray acicular submetallic mineral was found interstitial to the dolomitic breccia fragments. On weathering this mineral developed a sulphur yellow colour.

Going eastward from this location across the eastern limb of the fold we encounter a very fine grained, massive, brilliantly white, dolomitic marble. It is this rock type that is perhaps the most intriguing and was the object of the bulk sample. This marble variety is also the most common variety found throughout the Dolly Claims, apparently representing more than 75% of the land area of these claims.

Generally in the areas of exposed outcrop there appeared to be limited areas of unfractured areas suitable for the production of large dimension stone blocks, however the fractures that did exist were frequently well defined along specific local directions. Two major orientation of steeply dipping conjugate fractures were noted within this area. In some areas one set was prominent while the other predominated in other locations. The direction of draws and their major direction changes correspond to the predominance of one fracture set over the other in different areas.

Also found within the above zone are some local areas of brecciation. These lensoid areas of brecciation (generally only a few meters wide and possibly tens of meters long) appear to run more or less parallel to the axis of the assumed fold structure. This brecciation consists of fragments about 1 cm in size and smaller and in appearance resembles a white terrazzo. Compositionally both matrix and fragments are dolomitic with some areas of the matrix being more calcitic. This breccia generally weathers recessively and was easily eroded just by the washing. Occasionally a bright orange hematitic stain was found infilling some fractures less than 1/16" thick. Unusual high barium contents (up to 6.3%) has been noted in some samples found in the vicinity of these areas.

The last unit along the eastern side of the limb consists of intercalated irregular wispy bands of calcite and dolomite. This unit becomes progressively calcitic going eastward until the contact is reached where substantial thick bands of white calcitic marble are found. Frequently this mixed calcitic-dolomitic unit contains faint gray veiling more or less parallel to the strike of the formation. The presence of calcite was determined in the field by its strong effervescent reaction to a 10% HCl solution, its coarser crystalline structure and its unique recessive rhombohedral weathering pattern on exposed surfaces. This unit appears to be the soundest for the production of large blocks, however extensive overburden, compositional and textural variations prevented adequate evaluation.

A general observation was that while the dolomitic marble deformed in a brittle manner along preferred planes in response to strain, the calcitic marbles deformed plastically with only minor fracturing.

Representative sample types of the above rocks were collected and described in appendix 2 their assay results are shown in appendix 1. It should be noted that these samples are representative of type not content. The majority of rocks on this property were of the white uniform nondescript dolomitic marble with MgO contents in the 20-21% range.

RESULTS OF BULK SAMPLING

As a result of the preparation of a face about 3m high and 5.5m wide and the production of 220 tonnes of fragments from a blast, the following was observed:

1) On the face of the blast a minor group of faint light gray diffuse bands up to 20 centimeters wide were observed. These bands were noted on surface at this site and did not appear to be observed elsewhere in the bright white unit. It is believed these darker bands may be related to the presence of minor carbon in the form of graphite. Despite the presence of these occasional off-white bands the blasted dolomite aggregate still retained a bright white colour.

2) Two sets of conjugate fractures were observed at this location. The prominent fractures in this area strike at 33° and dip at 70°E while the secondary set of fractures were relatively obscure striking at 158° and dipping 80°W. Fractures observed on surface were reduced in number with depth, those still present at depth exhibiting the same orientation as on surface. For example for the first 5' down open fractures were parallel at 2-6" apart. From a 5'-10' depth fractures were less frequent. While below 10' fractures were hairline and occurred at an average 1' 6" apart. Often these hairline fractures were sealed with orange calcite (hematitic stained). It is interesting to note that the fracture planes are generally hairline cracks exhibiting smooth planar faces varying from 0.1 meter apart in some areas on surface to over 1 meter apart. These smooth fracture surfaces could facilitate the production of ashlar, lintels, patio stones etc. (see photos).

3) Some brecciated samples taken from a nearby zone at this site (see appendix #1) indicate an anomalous high concentration of barium (over 6%).

The technical and procedural details of the drilling and blasting are outlined in the technical blasting report in appendix 3. Photos of the site preparation, stripping and blast and results are shown in the photo album in the back pocket.

CONCLUSION

Although limited outcrop exposure did not reveal any extensive areas of sound material suitable for the production of large blocks of dimension stone this does not preclude the possibility that such sites may exist in overburden covered areas.

From the work conducted to date, a substantial area (covering approximately 175 Ha on the Dolly Claims) of bright white dolomitic, exists, to consider the viability of production of some forms of dimension stone, fillers and possibly aggregate. The predominance of smooth parallel planar fracture planes in the brilliantly white dolomitic marble would facilitate the economic removal of this material which could have application for exterior building cladding such as ashlar, flagstone and lintels. Landscape stone and patio blocks are some other dimension stone applications. The production of a white aggregate for terrazzo, stucco, agglomerated tiles, split concrete blocks and precast concrete are other possibilities.

Other high value markets to be investigated for the whitest material found in this area could include fillers for plastics, and cultured marble.

The high concentration of magnesium in this marble and its great extent, as well as recent Japanese patents in the extraction of MgO and CaO from Dolomite (see the Industrial Mineral Magazine article in appendix 4, and the availability of relatively cheap hydroelectricity generated nearby, may offer advantages for the production of magnesium metal and chemically precipitated CaCO₃.

Agricultural and acid mine waste neutralization are some other uses for lower grades of dolomite (see article in appendix 4).

The existence of barite anomalies associated with several highly brecciated areas on this property may suggest the possibility of Mississippian Valley Type Mineralization nearby.

Further evaluation of this property is recommended in the form of diamond drilling with infill percussion drilling and chip analysis to confirm uniformity, fracture density, brightness, chemical purity and tonnage at depth. Additional bulk sampling and further testing for specific end uses would also be required.

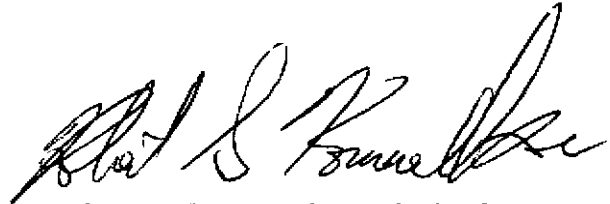
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CERTIFICATE

I, Robert G. Komarechka, of the City of Sudbury, in the Province of Ontario hereby certify as follows:

1. That I am a consulting geologist currently residing in Sudbury.
2. That I am a graduate, B.Sc., Geology major, of Laurentian University of Sudbury, Ontario, a registered professional geologist in the Province of Alberta affiliated with the Canadian Council of Professional Engineers, and that I have been practicing my profession for thirteen years.
3. That I have an interest in the properties.
4. That this report is based on a personal review of provincial, federal and some assessment reports as well as interpretation of field observations undertaken over the fall of 1995.



Robert G. Komarechka P. Geol.

Dated at Sudbury, Ontario, this 13th day of January, 1996.

APPENDICES

APPENDIX 1
Assay Results



WHOLE ROCK ICP ANALYSIS

Robert Komarechka File # 95-4216

Apt. #1 - 537 Haig St., Sudbury ON P3C 1E2



SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Mi	Sr	Zr	Y	Nb	Sc	LOI	SUM
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
01	.62	.15	.14	21.24	29.94	.06	<.04	<.01	.07	.02	.004	10	10	72	<10	<10	<10	<10	46.4	98.69
02	.30	.05	.14	21.75	30.27	.04	<.04	<.01	.06	.01	.003	154	<10	159	<10	<10	<10	<10	46.3	98.99
03	2.21	.63	.35	20.28	28.80	.06	.17	.01	.13	.02	.009	119	<10	80	<10	<10	<10	<10	45.3	98.00
04	2.14	.61	.27	8.79	43.12	.14	.06	.03	.07	<.01	.005	30	<10	174	22	<10	<10	<10	43.3	98.57
05	.79	.21	.11	2.24	52.67	.05	<.04	<.01	.04	.01	.004	75	11	1133	<10	<10	<10	<10	43.2	99.50
06	.36	.09	.17	20.74	31.31	.06	<.04	<.01	.09	.01	.008	9	21	149	<10	<10	<10	<10	46.4	99.28
07B	.98	.23	.30	19.99	31.03	.11	.04	.01	.08	.01	.005	715	<10	131	<10	<10	<10	<10	45.7	98.62
07G	.38	.08	.14	21.52	30.78	.07	<.04	<.01	.10	.01	.006	98	<10	79	<10	<10	<10	<10	46.5	99.63
07W	.34	.07	.12	18.86	30.75	.06	<.04	<.01	.08	.01	.007	17777	15	164	<10	<10	<10	<10	45.3	98.66
07X	.42	.09	.08	12.57	34.74	.08	<.04	<.01	.01	.01	.008	62863	<10	387	<10	<10	<10	<10	40.8	99.57
07VG	1.02	.25	.22	18.45	32.89	.12	.04	<.01	.09	.01	.006	8694	10	131	<10	<10	<10	<10	45.0	99.59
08	.51	.11	.16	21.67	30.37	.08	<.04	<.01	.11	.01	.008	2495	<10	262	<10	<10	<10	<10	46.1	99.62
09	.54	.09	.15	21.25	29.85	.09	<.04	<.01	.11	.01	.005	812	11	135	<10	<10	<10	<10	46.4	98.68
D10	.45	.08	.20	21.21	30.46	.09	<.04	<.01	.09	.02	.005	1401	<10	121	<10	<10	<10	<10	46.3	99.18
D11	.28	.04	.25	21.55	30.11	.10	<.04	<.01	.08	.03	.005	426	<10	59	<10	<10	<10	<10	46.7	99.25
RE D11	.28	.05	.25	21.42	29.91	.09	<.04	<.01	.09	.03	.005	425	<10	59	13	<10	<10	<10	46.7	98.93
RRC D11	.28	.05	.23	20.65	29.91	.10	<.04	<.01	.10	.03	.006	4536	<10	84	<10	<10	<10	<10	46.5	98.67
D11	2.33	.45	.08	8.86	43.70	.09	.04	.01	.07	.01	.004	05	22	223	<10	<10	<10	<10	43.6	98.98
STANDARD SO-15	48.37	12.71	7.18	7.20	5.85	2.39	2.16	1.60	2.87	1.38	1.046	2193	94	385	763	18	17	<10	5.9	99.20

.200 GRAM SAMPLES ARE FUSED WITH 1.2 GRAM OF LiBO2 AND ARE DISSOLVED IN 100 MLS 5X HNO3. Ba IS SUM AS BaSO4 AND OTHER METALS ARE SUM AS OXIDES.
 - SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRC' are Reject Reruns.

DATE RECEIVED: OCT 20 1995 DATE REPORT MAILED: Nov 16/95 SIGNED BY: *C. Leong* TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

AA

AA

GEOCHEMICAL ANALYSIS CERTIFICATE

Robert Komarechka File # 95-4216R

Apr. #1 - 537 Main St., Sudbury ON P3C 1E2

PHONE (404) 253-3158 FAX (404) 253-1718

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	M	Zr	Sn	Y	Mb	Be	Sc		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D1	<2	2	<5	3	<5	<2	<2	137	.10	<5	20	<4	<2	63	<.4	<5	<5	9	21.10	.005	2	3	11.13	5<.01	.05	.02	<.01	<4	<2	2	<2	2	<1	<1	<1		
D2	<2	<2	<5	2	<5	<2	<2	89	.07	<5	16	<4	2	140	<.4	<5	<5	2	21.37	.010	<2	<2	11.44	150<.01	.01	.01	<.01	<4	<2	2	<2	<2	<1	<1	<1		
D3	<2	5	6	5	<5	<2	<2	132	.24	5	14	<4	<2	72	<.4	<5	<5	3	20.88	.024	<2	9	11.01	118<.01	.30	.02	.13	<4	<2	<2	2	<2	<1	<1	<1		
D4	<2	4	<5	4	.5	3	<2	31	.11	<5	16	<4	<2	147	<.4	<5	<5	2	32.32	.013	4	3	4.58	17<.01	.26	.07	.03	<4	<2	<2	3	<2	<1	<1	<1		
D5	<2	2	<5	5	<5	<2	<2	66	.04	<5	14	<4	<2	907	<.4	<5	<5	2	38.23	.007	6	<2	1.05	67<.01	.08	.01	.02	<4	<2	<2	3	<2	<1	<1	<1		
D6	<2	<2	<5	6	<5	<2	<2	71	.09	<5	22	<4	2	126	<.4	<5	<5	2	21.20	.009	<2	<2	10.58	8<.01	.03	<.01	<.01	<4	<2	<2	<2	<2	<1	<1	<1		
D7B	<2	9	<5	6	<5	<2	<2	65	.11	<5	18	<4	2	111	<.4	<5	<5	2	20.90	.010	<2	<2	10.36	228<.01	.04	.01	<.01	<4	<2	<2	<2	<2	<1	<1	<1		
D7G	<2	2	<5	8	<5	3	<2	68	.06	<5	19	<4	2	65	<.4	<5	<5	<2	20.27	.013	<2	<2	10.81	55<.01	.02	.01	<.01	<4	<2	<2	<2	<2	<1	<1	<1		
D7W	<2	3	<5	5	<5	<2	<2	49	.08	<5	20	<4	<2	131	<.4	6	<5	<2	20.51	.008	<2	<2	9.78	6513<.01	.03	<.01	.01	<4	<2	<2	<2	<2	<1	<1	<1		
D7X	<2	3	<5	2	<5	<2	<2	42	.04	<5	21	<4	<2	253	<.4	8	<5	<2	23.14	.006	<2	<2	6.47	7371<.01	.03	<.01	.01	<4	<2	<2	2	<2	<1	<1	<1		
D7VG	<2	13	<5	6	<5	<2	<2	67	.13	<5	16	<4	2	104	<.4	<5	<5	2	21.45	.016	2	3	9.46	5447<.01	.11	.03	.02	<4	<2	<2	2	<2	<1	<1	<1		
D8	<2	4	8	29	<5	<2	<2	92	.09	<5	12	<4	<2	224	<.4	<5	<5	<2	20.25	.010	<2	<2	10.96	2266<.01	.04	.01	.01	<4	<2	<2	<2	<2	<1	<1	<1		
D9	<2	7	13	25	<5	<2	<2	71	.09	<5	15	<4	2	123	<.4	<5	<5	<2	20.10	.008	<2	<2	10.92	851<.01	.04	.01	<.01	<4	<2	<2	<2	<2	<1	<1	<1		
D10	<2	5	8	13	<5	<2	<2	141	.10	<5	15	<4	<2	97	<.4	<5	<5	<2	19.96	.008	<2	2	10.72	711<.01	.03	.01	.01	<4	<2	2	<2	<2	<1	<1	<1		
D11	<2	8	<5	9	<5	<2	<2	203	.14	<5	15	<4	<2	50	<.4	<5	<5	6	19.40	.008	<2	2	10.71	381<.01	.01	.01	<.01	<4	<2	2	<2	<2	<1	<1	<1		
RE D11	<2	8	<5	11	<5	<2	<2	202	.14	<5	14	<4	<2	51	<.4	<5	<5	3	19.54	.008	<2	2	10.81	379<.01	.01	.01	<.01	<4	<2	2	<2	<2	<1	<1	<1		
RRE D11	<2	4	<5	9	<5	<2	<2	173	.12	<5	16	<4	<2	72	<.4	<5	<5	3	19.81	.008	<2	<2	10.56	4118<.01	.02	.01	<.01	<4	<2	<2	<2	<2	<1	<1	<1		
DU 1	<2	2	<5	2	<5	<2	<2	24	.04	<5	12	<4	<2	181	<.4	8	<5	2	30.06	.002	4	<2	4.38	75<.01	.06	.02	.03	<4	<2	<2	2	<2	<1	<1	<1		
STANDARD CT	21	54	37	128	5.7	75	31	1128	4.41	29	27	5	43	234	16.8	15	14	106	1.21	.115	39	102	1.22	909	.33	7.03	1.63	1.93	22	56	17	11	11	1	15		

ICP - .250 GRAM SAMPLE IS DIGESTED WITH 10ML HClO₄-HNO₃-HCl-HF AT 200 DEG. C TO FUMING AND IS DILUTED TO 10 ML WITH DILUTED AQUA REGIA. THIS LEACH IS PARTIAL FOR MAGNETITE, CHROMITE, BARITE, OXIDES OF AL, ZR & MN AND MASSIVE SULFIDE SAMPLES. AS, CR, SB, AU SUBJECT TO LOSS BY VOLATILIZATION DURING HClO₄ FUMING.

- SAMPLE TYPE: ROCK PULP Samples beginning 'RE' are Retuns and 'RRE' are Reject Retuns.

DATE RECEIVED: JAN 9 1996 DATE REPORT MAILED: *Jan 12/96* SIGNED BY: *C. Leong* .D. TOYE, C. LEONG, J. VANG; CERTIFIED B.C. ASSAYERS

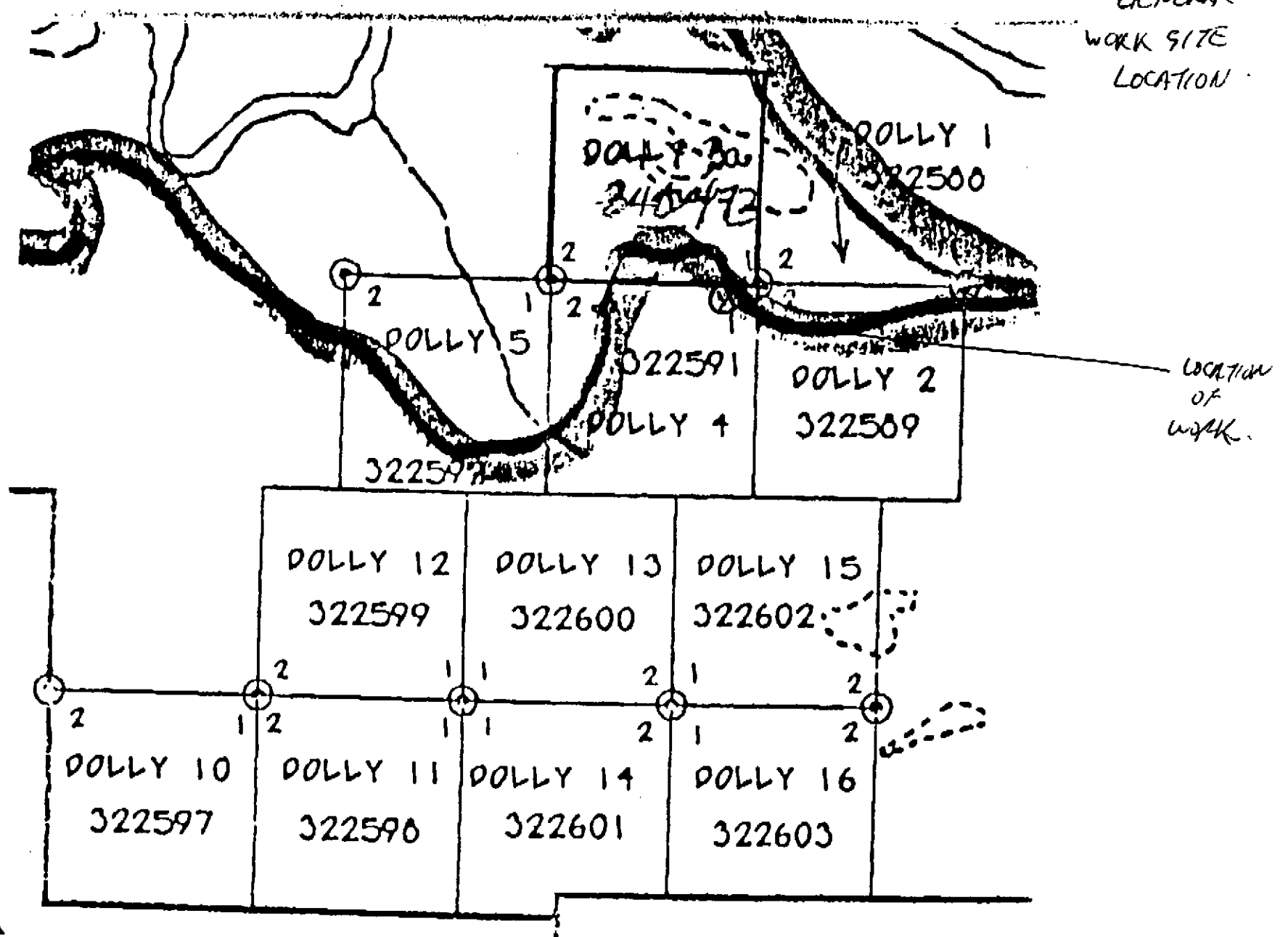
** TOTAL PAGE .002 **

APPENDIX 2
Sample Descriptions

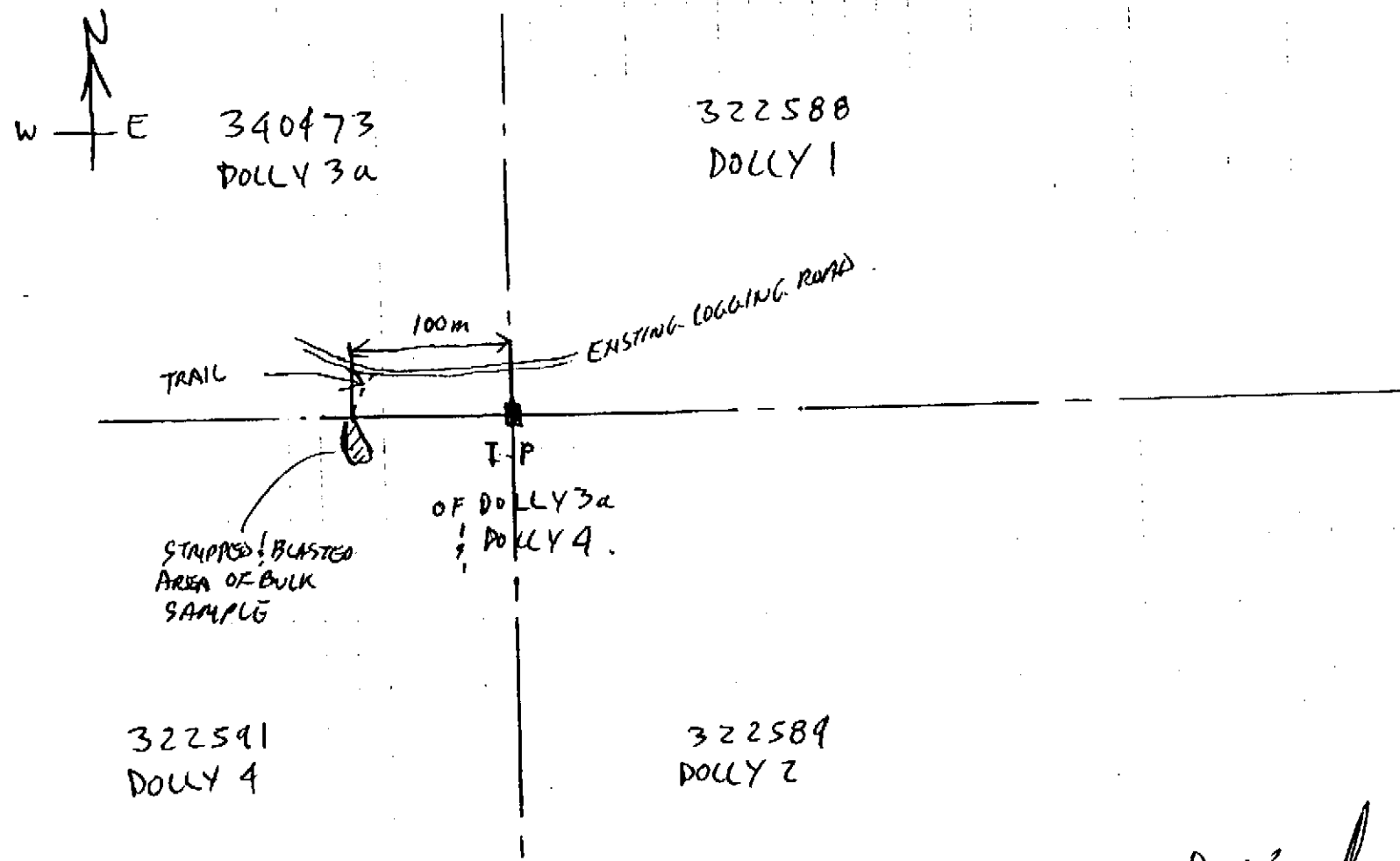
SAMPLE DESCRIPTIONS

- D1 - Dolomitic Marble - cream tan white, very finely crystalline, massive.
- D2 - Dolomitic Marble - cream white, very finely crystalline, massive, as above but with whiter colour, also some white calcite veining nearby.
- D3 - Dolomitic Marble - light grayish white with white, mixed very finely crystalline and medium crystalline, massive, trace muscovite, arcuate surfaces on medium sized crystal cleavage surfaces, trace hemitite.
- D4 - Calcitic Marble mixed with some Dolomitic Marble - white, with faint light grey streaks, very fine crystalline, massive.
- D5 - Calcitic Marble - white, medium crystalline, massive.
- D6 - Dolomitic Marble - cream white, very finely crystalline, massive.
- D7B - Breccia - terrazzo-like, cream white, fragments, up to 1/2" in size, composed of very finely crystalline, angular, massive, dolomitic marble, cemented in part with calcite, very crumbly, minor orange hematitic stained veinlets. Assay shows anomalous barite.
- D7G - Dolomitic Marble - slightly grey, very finely crystalline, massive.
- D7VG - Dolomitic Marble - medium gray, very finely crystalline, massive. This was the darkest gray sample found within one of the diffuse gray bands found within the bulk sample.
- D7W - Dolomitic Marble - very white, very finely crystalline, massive, trace hemitite, assay shows 1.8% BaO.
- D7X - Dolomitic Marble - as in D5 & D6 but with numerous coarsely crystalline, calcite veins and pin point, very soft, caramel brown crystals, possibly barite, assay shows 6.3% BaO..
- D8 - Dolomitic Marble - slightly cream white, very finely crystalline, massive, trace hemitite, assay shows 0.2% BaO.
- D9 - Brecciated Dolomitic Marble - terrazzo brecciation as in 7B but more competent possible cemented with dolomite.
- D10 - Dolomitic Marble - white, with very fine crystalline to medium crystalline, with arcuate surfaces have numerous irregular brown veinlets, assays show 0.1% dolomite.
- D11 - Dolomitic Marble - cream white with fuzzy light gray mottling, occasionally with medium crystalline arcuate crystal cleavage surface.
- ~~DW-1 - Dolomitic Marble - medium gray, graphitic, calcitic marble, with undulous boudinaged bedding, dark grey on fresh surfaces.~~

GENERAL
WORK SITE
LOCATION



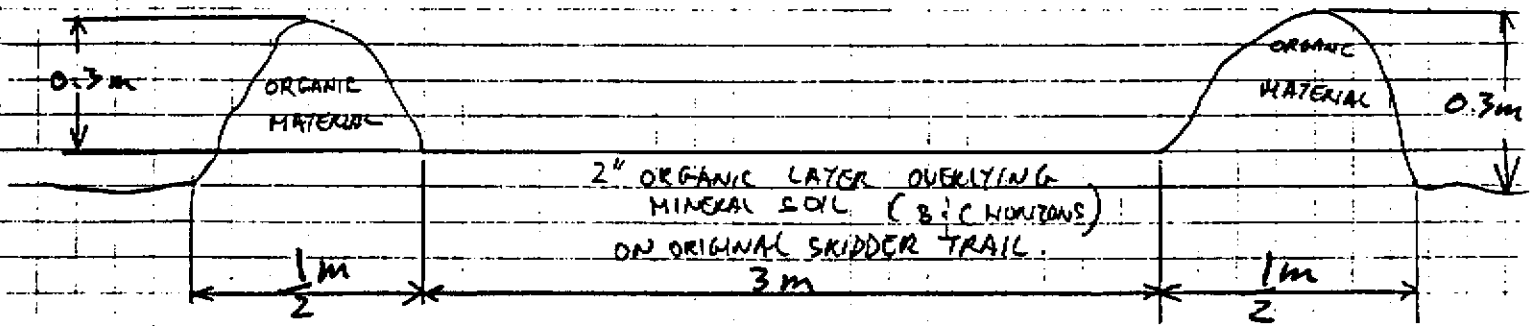
WORK SITE LOCATION



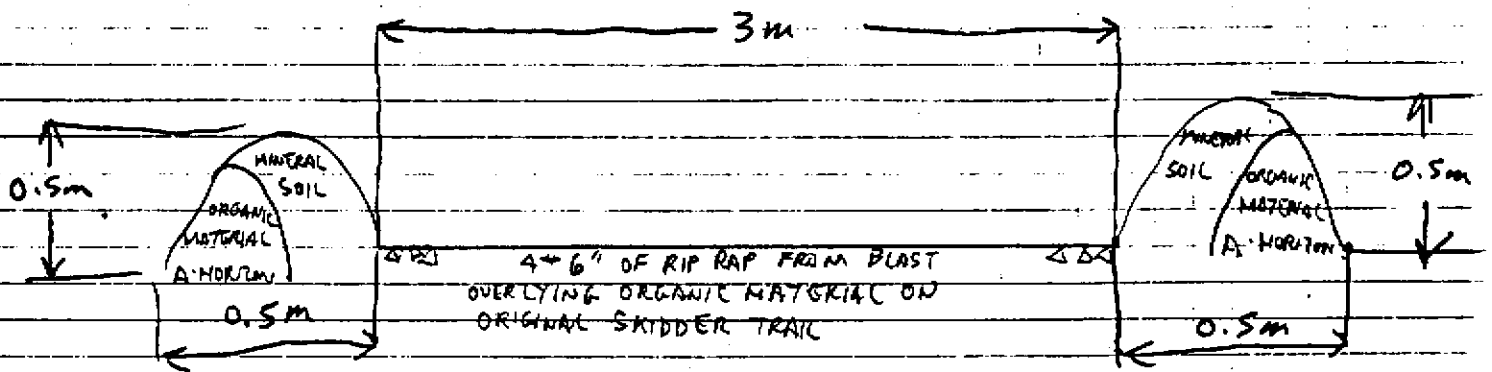
RS Kumar P. Geol.
OCT 19, 1995.

TRAIL CONSTRUCTION DETAILS

LOWER PART OF TRAIL - LEVEL GROUND - CROSS SECTION



UPPER PART OF TRAIL $\approx 15^\circ$ ANGLE SLOPE - CROSS SECTION



NOTE: THE ABOVE TRAIL WAS CONSTRUCTED ON AN EXISTING SKIDDER TRAIL. SOFT ORGANIC MATERIAL WAS PUSHED ASIDE ALONG THE TRAIL FOR LATER REHAB OF THE SURFACE AND ALSO TO PERMIT A SOLID BASE FOR BULK SAMPLE REMOVAL.

ON THE STEEPER UPPER SECTION (15°) RIP RAP FROM THE BULK SAMPLE BLAST WAS SPREAD OVER THE ORGANIC MATERIAL TO PREVENT EROSION AND TO ALLOW A SOLID BASE FOR BULK SAMPLE REMOVAL. THE MATERIAL ALONGSIDE THIS UPPER SECTION CAME FROM THE BULK SAMPLE AREA AND WAS PILED TO FACILITATE REHABILITATION.

CROSS DRAINAGE DITCHING WAS ALSO UNDERTAKEN WHEN WATER FLOW WAS ENCOUNTERED. (NOTE: 11cm OF RAIN OCCURRED THE NIGHT BEFORE).

AS THIS AREA WAS LOGGED IN 1992 (3 YEARS AGO) NO TREE WEEDED TO BE CUT.

APPENDIX 4

Selected Recent References

costs and an easily and quickly adjusted discharge opening. The crushers can be used in either open or closed circuits, and are suitable for both wet and dry processes. At present, there are two Rhodax models available: the Rhodax 300, with a cone diameter of 300mm, and the Rhodax 1000, with a cone diameter of 1000mm. FCB plans to make larger models available in the future.

The shape of the crushing chamber, means that by altering the setting on the Rhodax 1000, it is possible to choose between either granulated or relatively fine products. This gives a setting range of 20-40mm at a power rating of 200kW. Overall capacity is 200 tph, with a maximum feed size of 210-250mm.

Krupp kiln for Alsen-Breitenburg

Krupp Polysius AG of Beckum, Germany, has been commissioned by Alsen-Breitenburg-und Kalkwerke GmbH of Lägerdorf, to build a 2,500 tpd kiln line for its cement production operation. Construction is expected to commence at the start of 1995, with an anticipated commission date early in 1996. The new system replaces the less cost efficient and less environmentally compatible Lepol kiln, which has been in operation at the company for over 20 years.

The main feature of the new installation is the recently developed Polro two-roller-stand kiln, which is 65 metres long and 4.8 metres in diameter. The new design kiln is driven directly by the self-aligning rollers upon which it is supported. This does away with the need for pinion and girth gear and saves on operating and maintenance costs as well as

improving operating behaviour.

Other aspects of the kiln line include a Dopol '90 three stage cyclone preheater and a Prepol calciner and emission-reducing MSC multi-stage combustion system, through which the ground, dried and dedusted raw material is fed. As an environmental benefit, residual materials from other production processes can be used to replace some of the natural raw materials and fuels consumed.


Patent Abstracts

Recovering magnesium from dolomite

Magnesium oxide is recovered from dolomite in a process developed by Musashi Institute of Technology (Tokyo). The process yields MgO with a purity of 96-97% and is scheduled to be piloted next year at a dolomite mine in Kuzuu, Tochigi Prefecture.

Dolomite ($\text{CaMg}(\text{CO}_3)_2$) is first calcined at 1,000°C to give CaO and MgO. The resulting

chunks are then fed into a reactor filled with water whereby the CaO is slaked to calcium hydroxide. This exothermic reaction breaks up the chunks of calcined dolomite, and most of the $\text{Ca}(\text{OH})_2$ dissolves, leaving a fine dispersion of MgO suspended in the solution. A strongly acidic cation-exchange resin (a sulphonate) is then added to the tank where it preferentially adsorbs the calcium ions. The MgO powder, comprising particles with diameters of 20-30nm, can then be separated from the Ca-containing resin beads, with typical diameters of 0.5mm, using a sieve. In tests, 15kg of resin are needed to treat 300 grammes of dolomite.

The ion-exchange resin can be regenerated around 450-500 times, using 10% hydrochloric or sulphuric acid. The resulting calcium is recovered from solution as a fine powder via evaporation. Although cost analyses have yet to be carried out, the new route is expected to be much cheaper because dolomite typically contains 20% MgO, compared with 0.2% in seawater from which MgO is commonly recovered. 

Fluorspar 1995

22-23 May 1995

Coppid Beech Hotel
Nr Bracknell, UK

see p.54 for more details

Announcing International Bauxite and Alumina Markets

Sheraton Bal Harbour, Miami, USA 2-4 April 1995


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Industrial Minerals and Metal Bulletin join together to bring you a long awaited meeting on bauxite and alumina. This two day event will focus on both the metallurgical and non-metallurgical sectors and is not to be missed.

Subjects for discussion will focus on supply and demand in both metallurgical and non-metallurgical sectors, trends, specifications and future prospects for the industry. *The non-metallurgical section of this conference will provide an overview of bauxite supply and developing sources, and will address the market outlook, trends and specifications for refractory, abrasive and chemical grade aluminas.*

All delegates can enjoy the hospitality of Industrial Minerals and Metal Bulletin at the Cocktail Reception held between the two days of seminars.

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BURNING QUESTION: HOW TO CLEAN UP COAL'S ACT

At stake is who will get \$525 million in federal R&D funds

Most years, the Energy Dept. doles out support for energy research—a few million dollars here and several million there—and hardly anyone ever squawks. But this year the agency will need the wisdom of Solomon to avert a barrage of criticism.

Perhaps as soon as this month, Energy will announce how it plans to divvy up the kitty for research on ways to clean up coal's act. Up for grabs is a staggering \$525 million, the first big dip into the five-year, \$2.5 billion clean-coal program created by the Reagan Administration last year to placate Canada, which blames emissions from Midwest power plants for an alarming increase in acid rain.

No one disputes the critical need to find ways to render coal gentler on the environment. But the various parties disagree vehemently over priorities. The utility and coal industries want to plow most of the money into so-called repowering technologies: new methods of generating power from coal that would not only reduce air pollution but also boost power-plant efficiency. The hitch is that they won't be ready for a decade or so.

That's too long for environmentalists and some members of Congress. They demand quicker action on acid rain. And concerns over the greenhouse effect and its threat to the global climate can only compound their sense of urgency. New combustion techniques are important for the long term, admits Representative Philip R. Sharp (D-Ind.), chairman of the House energy & power subcommittee, "but we want to make sure they are doing something with retrofit technologies, too."

TICKED OFF. The environmentalist agenda calls for major funding of new pollution-control equipment that could be installed on existing generators. Within just three years, proponents assert, such retrofit hardware could be curbing the sulfur and nitrogen emissions that contribute to acid rain. For example, one approach injects sulfur-absorbing limestone into furnaces. It promises to trim

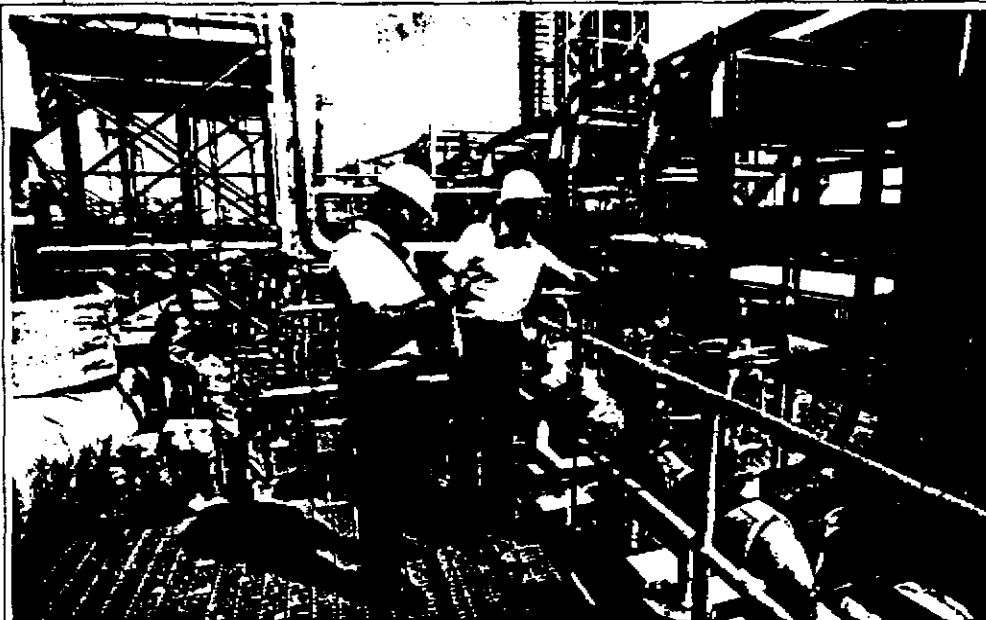
sulfur dioxide by up to 60%. The concept is being tested by McDermott Inc.'s Babcock & Wilcox Co. and the Environmental Protection Agency.

Although Energy is supporting that work with an \$8 million grant, environmentalists are ticked off that most of last year's initial round of contracts went to repowering projects. To John L. McCormick of Greenpeace, focusing on

The utilities and coal companies successfully fended off recent calls for more stringent controls, but once President Reagan departs and Senator Robert C. Byrd (D-W. Va.) steps down as majority leader, the likelihood of expensive new regulations will increase. But utilities will point to an Energy Dept. study last year. It concluded that repowering technologies could, by 2010, reduce acid-rain-related emissions further and at substantially less cost than better smokestack controls.

One front-running candidate is the prototype plant operated by Southern California Edison Co. It converts coal into a synthetic gas that is then used to fuel a gas-fired steam turbine. Energy researchers estimate the process could slash sulfur-dioxide emissions by 95% to 99% and nitrogen oxide by up to 40%.

American Electric Power is pioneering



TURNING COAL INTO GAS: GASIFICATION MAY LET UTILITIES CUT SULFUR-DIOXIDE EMISSIONS BY 95%

new power-generation methods at the expense of pollution-abatement research subverts the intent of the clean-coal program. "Suddenly," he says, "repowering is the tail that's wagging the dog."

To reduce sulfur and nitrogen emissions over the past decade, the utilities have already spent more than \$60 billion on scrubbers, which clean combustion gases before they are vented. Perversely, because scrubbers cause an 8% to 17% dip in efficiency, utilities must burn more coal to produce the same output—and that spews out more carbon dioxide. Before this, utilities haven't even thought about limiting carbon dioxide emissions. "The idea of scrubbing for carbon dioxide is a new one," says W. S. "Pete" White, chairman of American Electric Power Co. in Columbus, Ohio,

an approach based on a new "fluidized-bed" furnace. A hot bed of limestone or dolomite is suspended on a cushion of pressurized air, and the coal is injected onto this fluidized bed. Because limestone and dolomite combine readily with sulfur, less sulfur dioxide is formed. AEP maintains that the technology could reduce sulfur emissions by as much as 95%—vs. 90% with scrubbers—and do it more cheaply.

When it comes time to hand out the money, Energy may figure the expedient decision is to slice it down the middle. But unless the greenhouse issue cools off before the next round of funding comes along, things could get dicier. And carbon dioxide emissions may pose the toughest challenge yet.

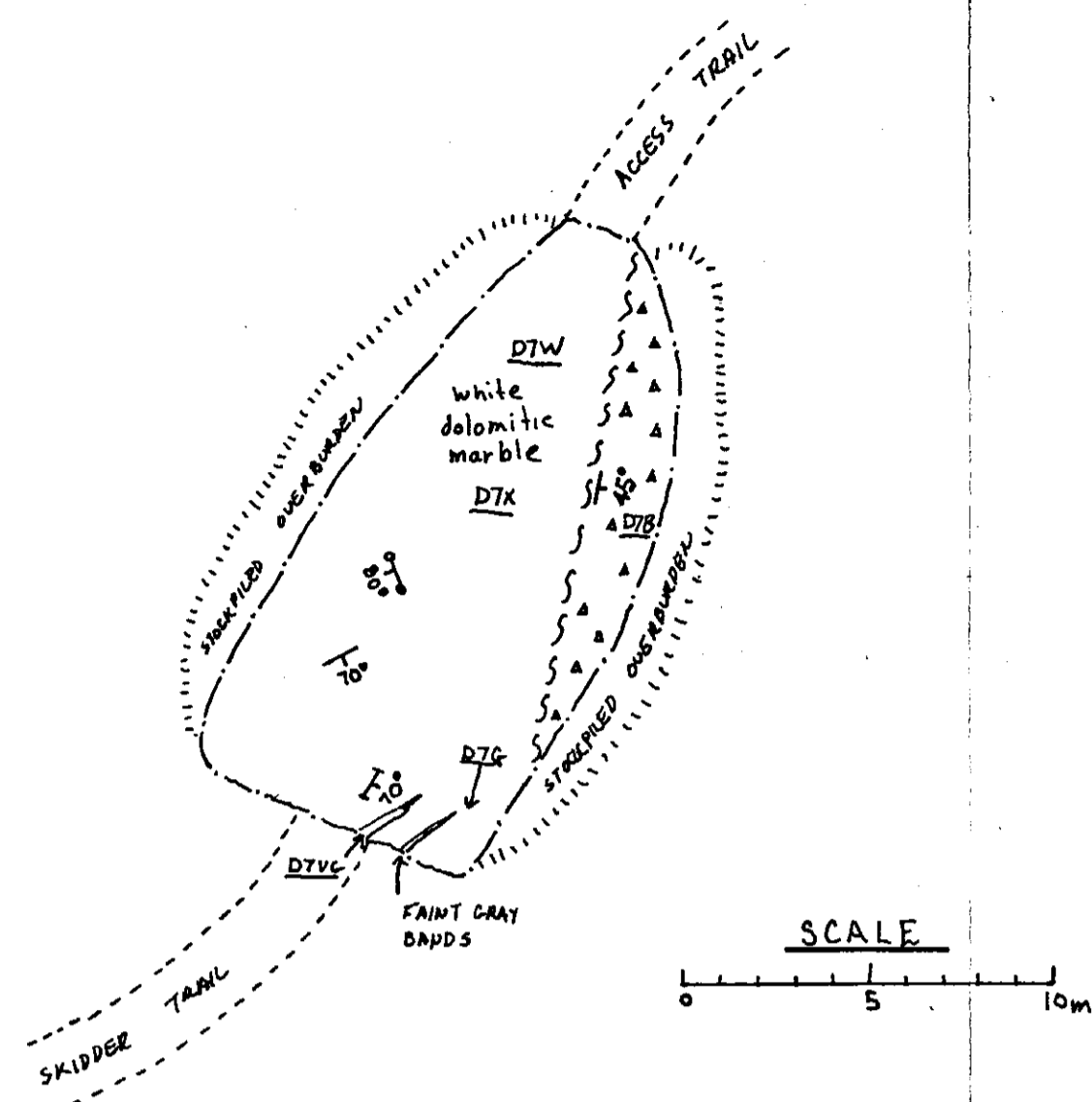
By Dennis Melamed in Washington

APPENDIX 5
Photo Descriptions

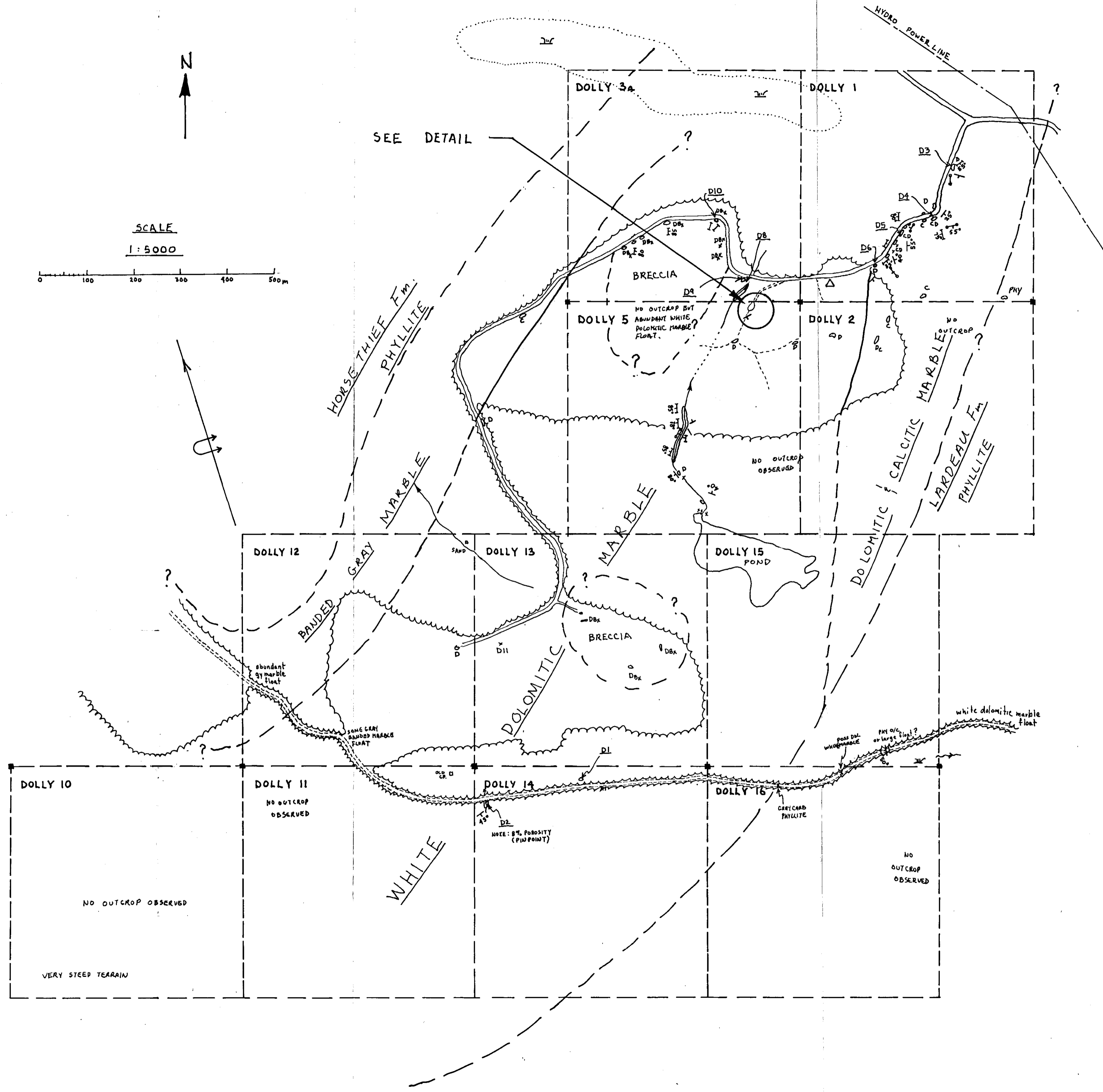
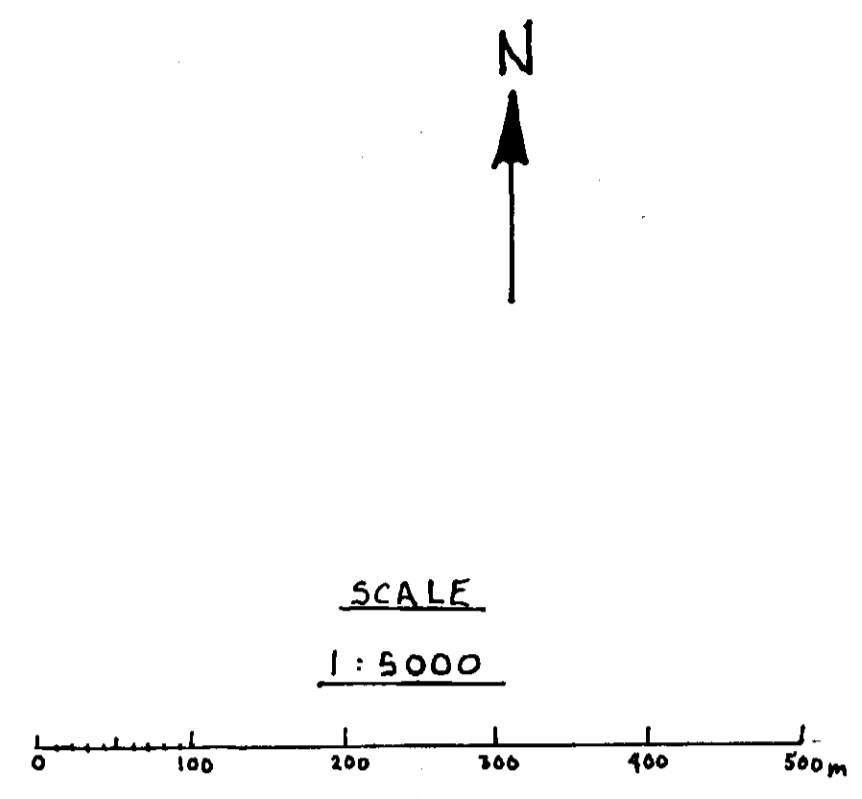
PHOTO DESCRIPTIONS

- Cover Page View of white dolomitic marble remaining near the face after removal of the bulk sample
- Frontpiece View from the face looking towards the access road with blasted white dolomitic marble in the foreground. Picture was taken after the removal of the 10 ton bulk sample.
- Photo 1 View from proposed work site looking toward the access road showing existing skidder trail.
- Photo 2 View from proposed work site looking further along access road. Note turnaround for large trucks.
- Photo 3 View from proposed work site looking east, showing logged area on hillside. All this area is underlain by white dolomitic marble. Note numerous skidder trails.
- Photo 4 View from road up towards proposed work site.
- Photo 5 & 6 4WD CAT 426 removing organic layer on skidder trail.
- Photo 7
8 & 9 Removal of organic soil begins on bulk sample site outlined by red flagging.
- Photo 10 Removal of mineral soil and loose rock.
- Photo 11 Looking uphill at site after stripping.
- Photo 12 Looking towards access road from site after washing outcrop.
- Photo 13 Looking from road at site after washing outcrop.
- Photo 14 Loading of holes prior to blasting.
- Photo 15 The blast.
- Photo 16 Results of blast, good fragmentation, throw of material maintained on skidder road and stripped area.
- Photo 17 Close-up view of blasted material after being washed by rain.
- Photo 18 Secondary blast at the face of bootleg hole, over sized material on right due to misfire of hole, Note parallel jointing on face.
- Photo 19 Face after bulk sample removal & scaling of face showing remaining material on site.

- Photo 20 Photo of site after completion of work showing white aggregate on trail & cross ditching.
- Photo 21 Photo from face towards road showing white dolomitic marble in foreground.
- Photo 22 View on top of hill about 1.5km south of bulk sample site, showing white dolomitic marble in foreground & the Goldstream Mine Tailings Pond in the distance.
- Photo 23 Looking down access road towards NE corner of Dolly 1 claim, white calcitic banded marble in the foreground. Note powerlines barely visible in the trees at the base of hill.
- Photo 24 Another view from the face looking north with white dolomitic marble in the foreground.



DETAIL OF BULK SAMPLE AREA
AFTER STRIPPING
SCALE 1:200

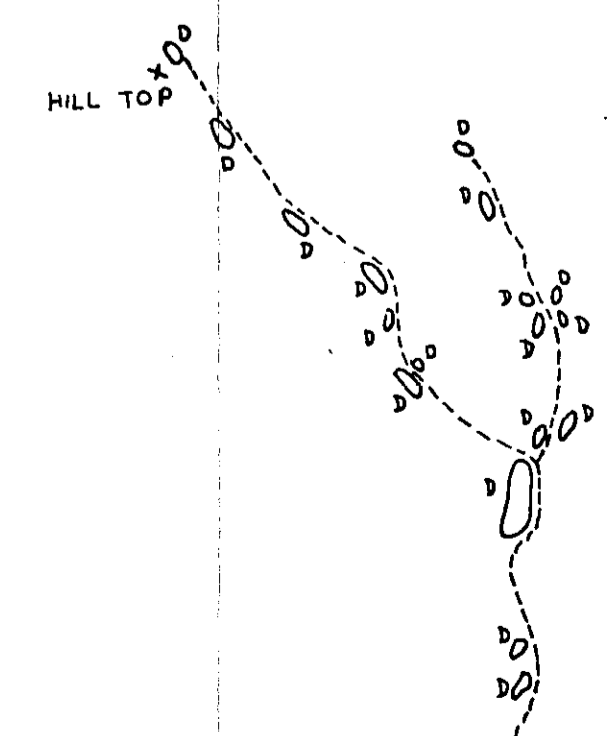
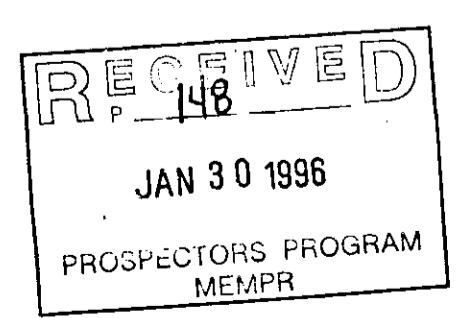


LEGEND

- ROCK TYPES**
- D - WHITE DOLOMITIC MARBLE
 - C - CALCITIC MARBLE
 - DC - WHITE DOLOMITIC & CALCITIC MARBLE
 - DBx - BRECCIATED MARBLE
 - PHY - PHYLLITE
- SYMBOLS**
- DTW - SAMPLE NUMBER
 - A - BEDDING
 - J - PRINCIPAL JOINTING
 - S - SECONDARY JOINTING
 - SW - SWAMP
 - x - SMALL OUTCROP OR LARGE BOULDER
 - - CLAIM POST CURRENT, OLD
 - △ - TREE FARM ID. POST
- ROADS**
- || - 2WD ROAD
 - - 4WD ROAD
 - - - - TRAIL
- OTHER**
- - - - EDGE OF FOREST
 - - - - GEOLGIC CONTACT KNOWN, INFERRED

MAP 5 - DOLLY CLAIMS
RECON. GEOLOGY, SAMPLE & BULK SAMPLE LOCATIONS

Prepared by: Bob Komarechka of
BEDROCK CONSULTING
January 14, 1995



Area #2 The Scrip Ck. Dunite Occurrence

CONTENTS

Introduction	2
Location & Access	2
Description of Activities	2
Geological Observations	3
Conclusion	3
Maps - Local Index Map #2-1	2-i
- Geological Sketch Map #2-2	3-i

The Scrip Ck Dunite Occurrence

INTRODUCTION

This report outlines the work performed on an alleged occurrence of dunite occurring in marble (shown as map unit Ha on enclosed index map - G.S.C. map #12-1964, accompanying G.S.C. paper 64-32). Unfortunately no dunite was found in this area, however a report of the geology encountered is presented.

LOCATION & ACCESS

The area of investigation is located in the northwest corner of NTS sheet 82M E in the general area of the Big Bend of the Columbia River (Seymour Arm, East Half). The area is found at a longitude of 118° 53' and latitude of 51° 54'. Geographically it is located in mountainous terrain of the Script range of the Monashee Mountains at the headwaters of the north arm of Script Creek at an elevation of 6,000'. (see attached map 2-1

This area is approximately 72 air miles NW of the town of Revelstoke. Access to the site was obtained by traveling by road north of Revelstoke for 113 kilometers to an airstrip at the mouth of the Bigmouth River. A helicopter from Revelstoke was boarded at this site and conveyed the author and his assistant (Erich Unterberger of SS1, Site 9, Comp23, Revelstoke British Columbia, VOE 2S0) 19 kilometers WNW to an elevation of 6,500' at the headwaters of the north arm of Script Creek.

DESCRIPTION OF ACTIVITIES

The flight to, and examination of, this site occurred on October 5, 1995. The author and his assistant Erich, an amateur prospector and experienced high alpine guide for both the Selkirk and the Purcell Mountains, inspected the surrounding terrain en route to this site and noted what appeared to be a large dark layer of mafic rock at the dunite location described by the G.S.C. After being dropped off at a nearby level area we proceeded to the site of the dark rock. Due to negative observation the evaluation of this site consisted of only a



one day sojourn and was curtailed. The helicopter was radioed and pickup occurred at the end of the day.

GEOLOGICAL OBSERVATIONS

Observations of the dark rock band revealed it was an amphibolitic band within surrounding paragneiss. The strike of this dark band was followed to the west until it reached the height of land from where it disappeared down a steep slope covered with snow. Nowhere along its length was it in direct contact with any marble. Compositionally this rock consisted of primarily of a black to dark olive green amphibolite with minor plagioclase and some quartz. At its contact with the surrounding paragneiss there occurred some minor red subhedral <1/8" diameter garnets (probably almandine).

The surrounding paragneiss consisted of quartz with biotite bands and some lenticular pegmatoidal sweats. These pegmatites were of a simple type consisting of coarsely crystalline quartz, plagioclase and muscovite.

About 300 meters north of the contact of the paragneiss with the amphibolite band there occurred a calcsilicate gneiss. This gneiss consisted of several cream white very coarsely crystalline bands of marble within paragneiss. In some of the more coarsely crystalline bands closer to the amphibolite band, tiny pinhead sized green and yellow crystal of diopside and chondrodite were observed.

No economic minerals or gemstones were observed in the study area.

CONCLUSION

No dunite was observed at the site labeled as map unit Ha on G.S.C. map #12-1964. Nor was any chrome grossularites (tsvarites) or skarn Mineralization observed. The area of study consisted of paragneiss, containing calcsilicates and a prominent amphibolite band. It would appear that this amphibolite band was incorrectly mapped as dunite.

M

5200

NORTH ARM OF SCRIP CR

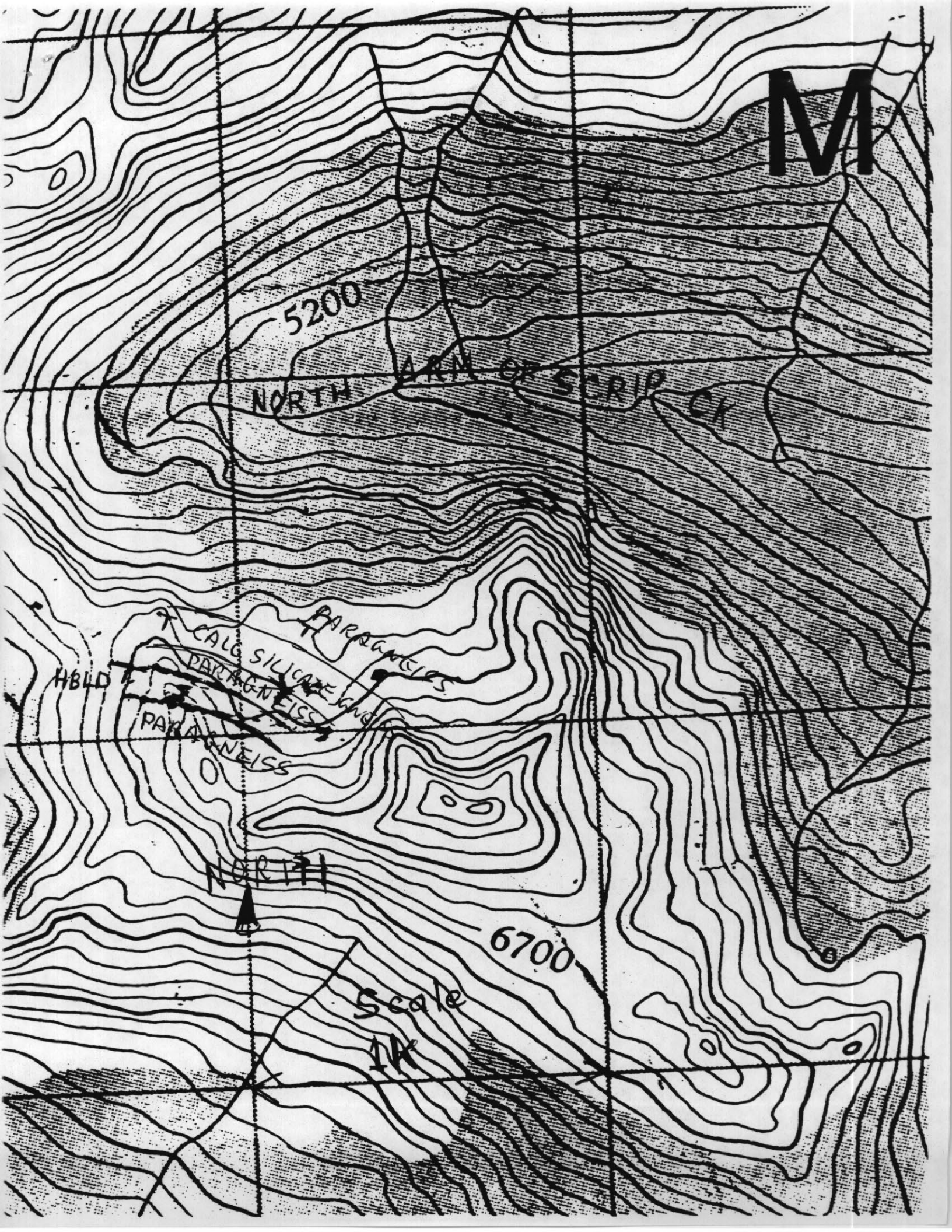
HBLD

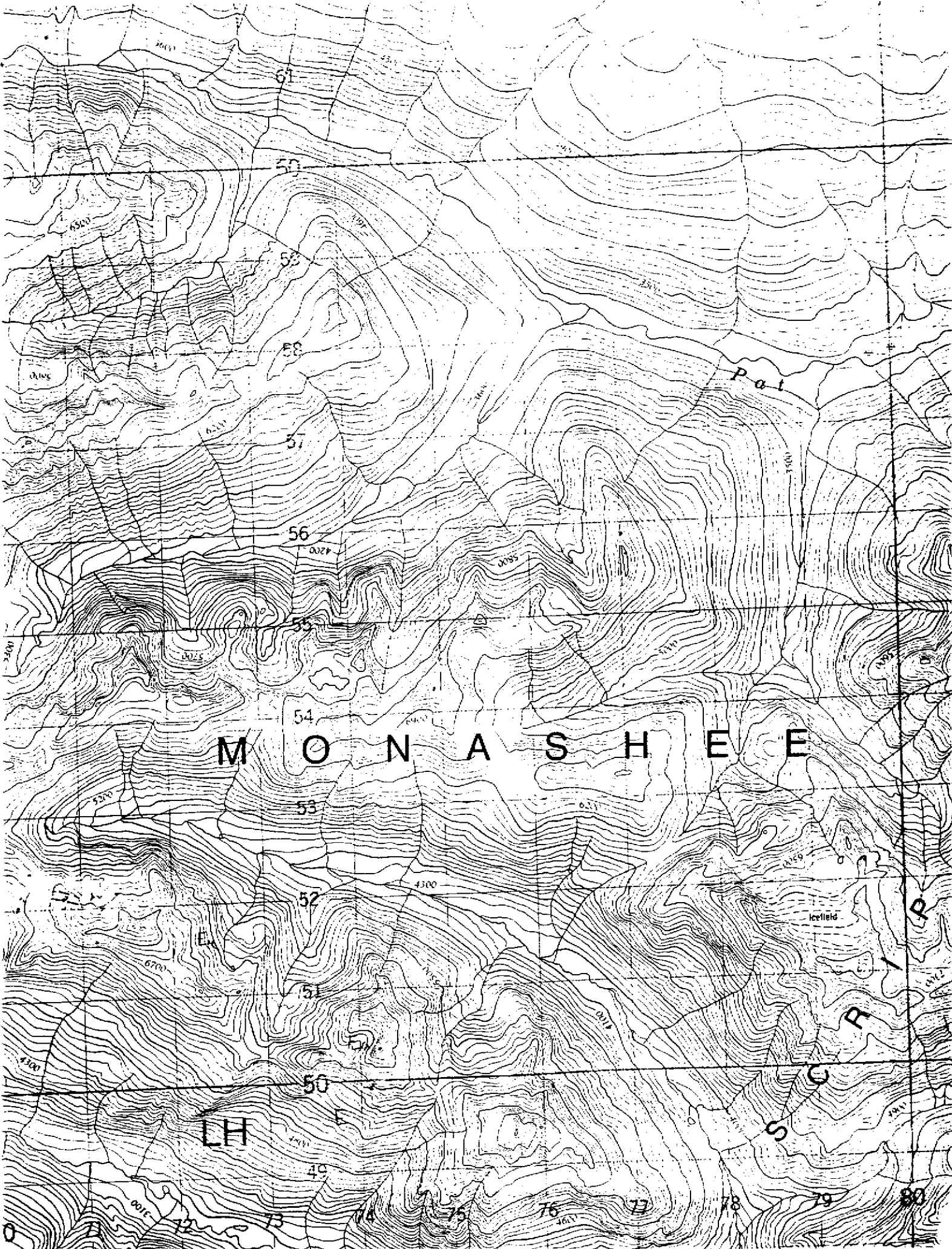
PARAGNEISS
CALC SILICATE SAND
PARAGNEISS
PARAGNEISS

NORTH

6700

Scale
1:1





MONASHEE

Pat

icefield

LH

R

S

C

R

R

80

79

78

77

76

75

74

73

72

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6000

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6400

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5300

6700

4300

4300

6200

5700

6000

5000

2300

5400

4900

5000

5000

6000

5000

5000

4600

6000

5000

4600

**BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)**

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations, section 15, 16 and 17.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name ROBERT KOMARECHKA Reference Number 95/96 P148

LOCATION/COMMODITIES

Project Area (as listed in Part A) DOWNIE CREEK MINFILE No. if applicable ?

Location of Project Area NTS E 1/2 B2M8 Lat 51° 25' Long 118° 05'

Description of Location and Access ABOUT 25km UP DOWNIE CK FROM ITS MOUTH.

58 km ON HWY 23 NORTH OF REELSTOKE THEN TURN RIGHT ALONG THE
DOWNIE CREEK LOGGING ROAD^{21km}. AN EXTENSIVE MARBLE BAND ABOUT 10km LONG

Main Commodities Searched For MARBLE X 1km WIDE ISLAND

Known Mineral Occurrences in Project Area DOLLY MARBLE MONTGOMERY (COPPER) KEYSTONE (PbZn)
STANDARD (Cu), A 1/2 E (Pb, Zn), ROSEBERRY (Au), MASTODON (PbZn), J & L (PbZn)

WORK PERFORMED	
1. Conventional Prospecting (area)	<u>ABOUT 20km² ALONG ROAD, TRAILS, SHORT TREKS</u>
2. Geological Mapping (hectares/scale)	<u></u>
3. Geochemical (type and no. of samples)	<u>10 ROCK SAMPLES.</u>
4. Geophysical (type and line km)	<u>N/A</u>
5. Physical Work (type and amount)	<u>LOTS OF STEEP HIKING.</u>
6. Drilling (no., holes, size, depth in m, total m)	<u>N/A</u>
7. Other (specify)	<u></u>

SIGNIFICANT RESULTS Cu, DOLOMITIC AMBER COLOURED CALCITIC
Commodities WHITE, GRAY, YELLOW; CALCITIC MARBLE, ONYX Claim Name N/A.

Location (show on map) Lat 51°-25' Long 118° 05' Elevation 3,000 - 6,000'

Best assay/sample type ~~0.56% Cu~~ 0.56% Cu, MARBLE NOT EVALUATED
BUT SOME FLOAT OF BRIGHT WHITE CALCITIC MARBLE PROB 99% CaCO₃

Description of mineralization, host rocks, anomalies SIGNIFICANT AZURITE STN, MALACHITE & CHALCOPYRITE IN QUARTZ BOULDER, CARAMEL COLOURED ONYX & MULTI-COLOURED MARBLES BOTH CALCITIC & DOLOMITIC IN HUGE QUANTITY + 1 BILLION TONNES. INSUFFICIENT TIME TO EVALUATE.

Area #3 - Downie Creek Area

CONTENTS

Introduction	2
Location & Access	2
Description of Activities	2
Geological Observations	2
Conclusion	5
Maps - Geological Location Map #3-1	2-i
- Reconnaissance Downie Ck. Map #3-2	3-ii
- Hwy 23 - Keystone Ck. Map #3-3	3-iii
Appendices	
- Appendix 1- Assays	
- Appendix 2- Sample Descriptions	
- Appendix 3- Photo Descriptions	

INTRODUCTION

As a result of discussions with a SilvaTech crew regarding the presence of marble near a recently constructed road in the Downie Creek area and confirmation on geological maps of the presence of the Badshot formation in this area, a request was made and approved by PAP officials to include in this grant a preliminary reconnaissance of this area to ascertain the potential for the production of large blocks of dimension stone. This report discusses the results of this examination and other mineralisation encountered.

LOCATION & ACCESS

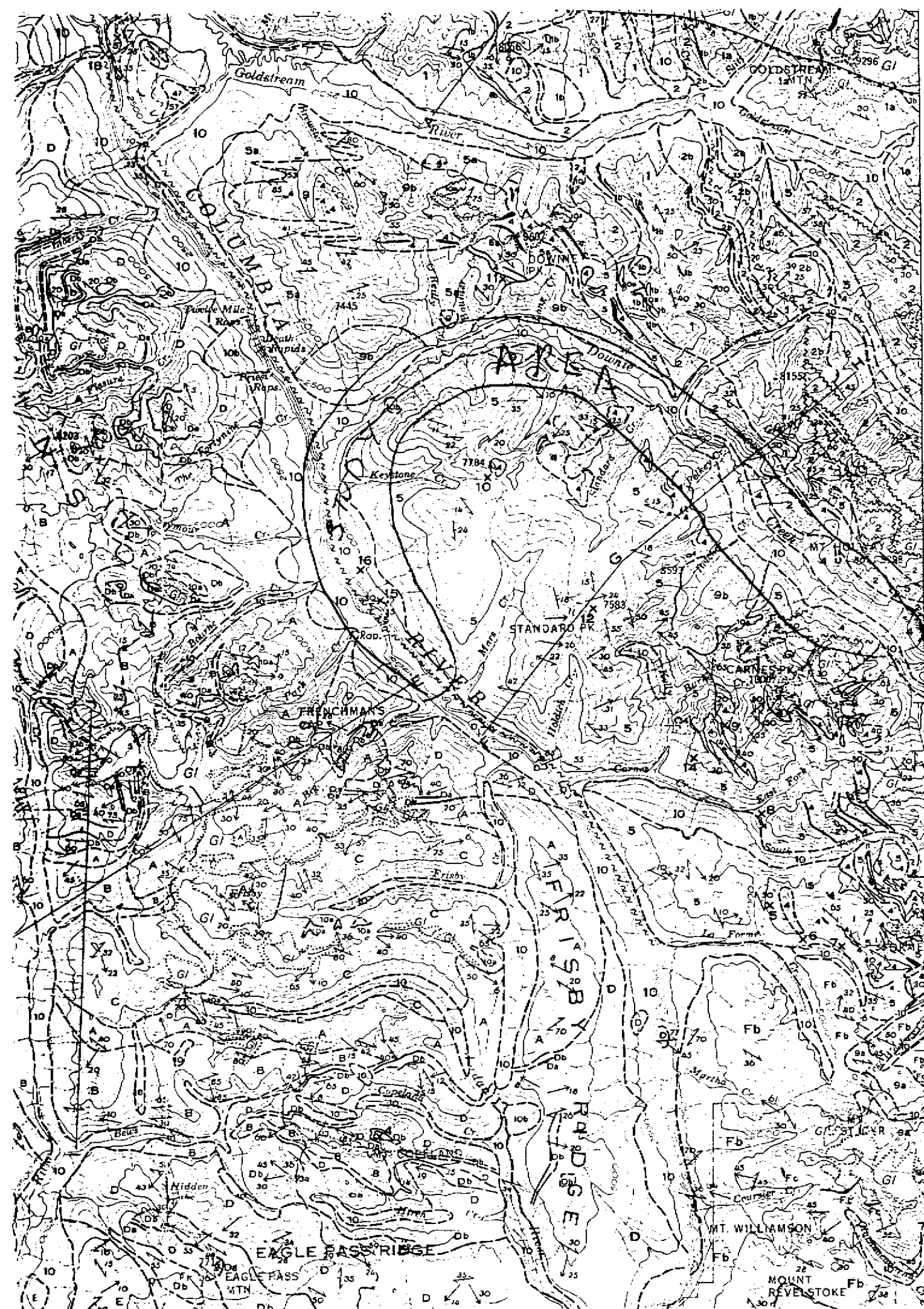
The area of study is a general area located along Downie Creek as shown in location map 3-1. Access to the area can be obtained by driving northward from Revelstoke about 58 km. along highway 23 then eastward along the Downie Creek logging road about 22 km. upstream along Downie Creek. An extensive marble band continues eastward from this area to the end of this road at 30 kilometers and beyond for several kilometers.

DESCRIPTION OF ACTIVITIES

Two days were spent examining the Downie Creek area. The first day consisted of prospecting outcrops along the Downie Creek logging road with several short hiking excursions noting the occurrence and description of any marble or other unusual mineralisation. This information is shown on map 3-2. The second day rained heavily and was optimised with an examination of several gossans and malachite stains along highway 23 south of the mouth of Downie Creek. Several samples were collected from this area and sent for assaying. See map #3-3 for these locations and the appendix for the sample analysis.

GEOLOGICAL OBSERVATIONS

As a result of the first days examination of the rocks along the Downie creek road it was observed that extensive quantities of both calcitic and dolomitic marble exist within the upper reaches of this creek. In some cases these marbles are very white. Other colours



MAP
3-1



Adjuncts Map 43-1962 "Rogers Pass"

NOTE: MAP
TAKEN
FROM GSC
MAP 12-1966

SCALE
1:253,440
1" = 4 MILES

SEE
DOLLY
MARBLE
REPORT
FOR
INDEX TO
THIS MAP

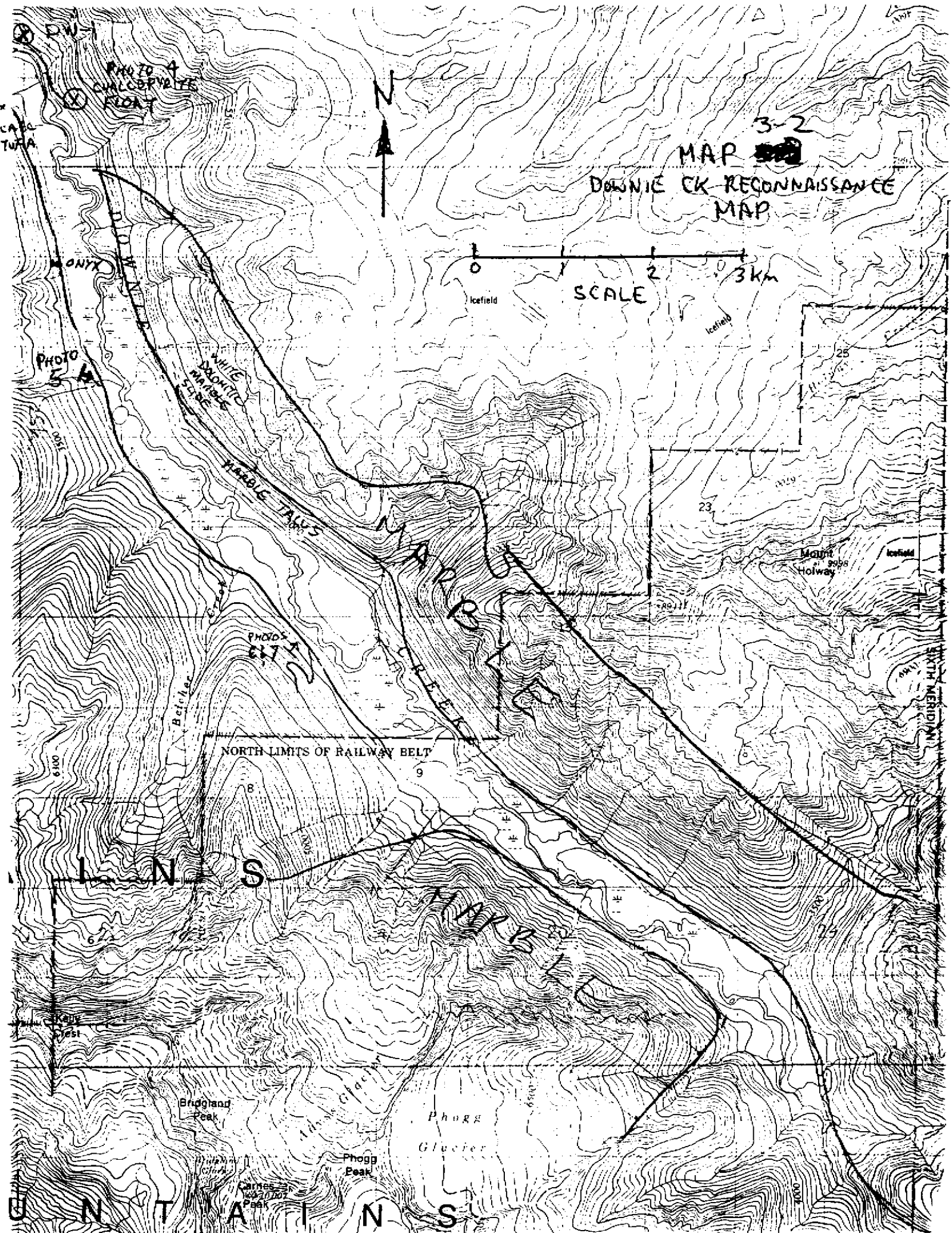
15

include very dark gray (frequently graphitic), medium to light gray, banded gray and white and also some tan to gold veiled varieties. Also encountered were calc tufa and a honey coloured calcitic onyx. The locations of these varieties are shown on the attached map #3-2.

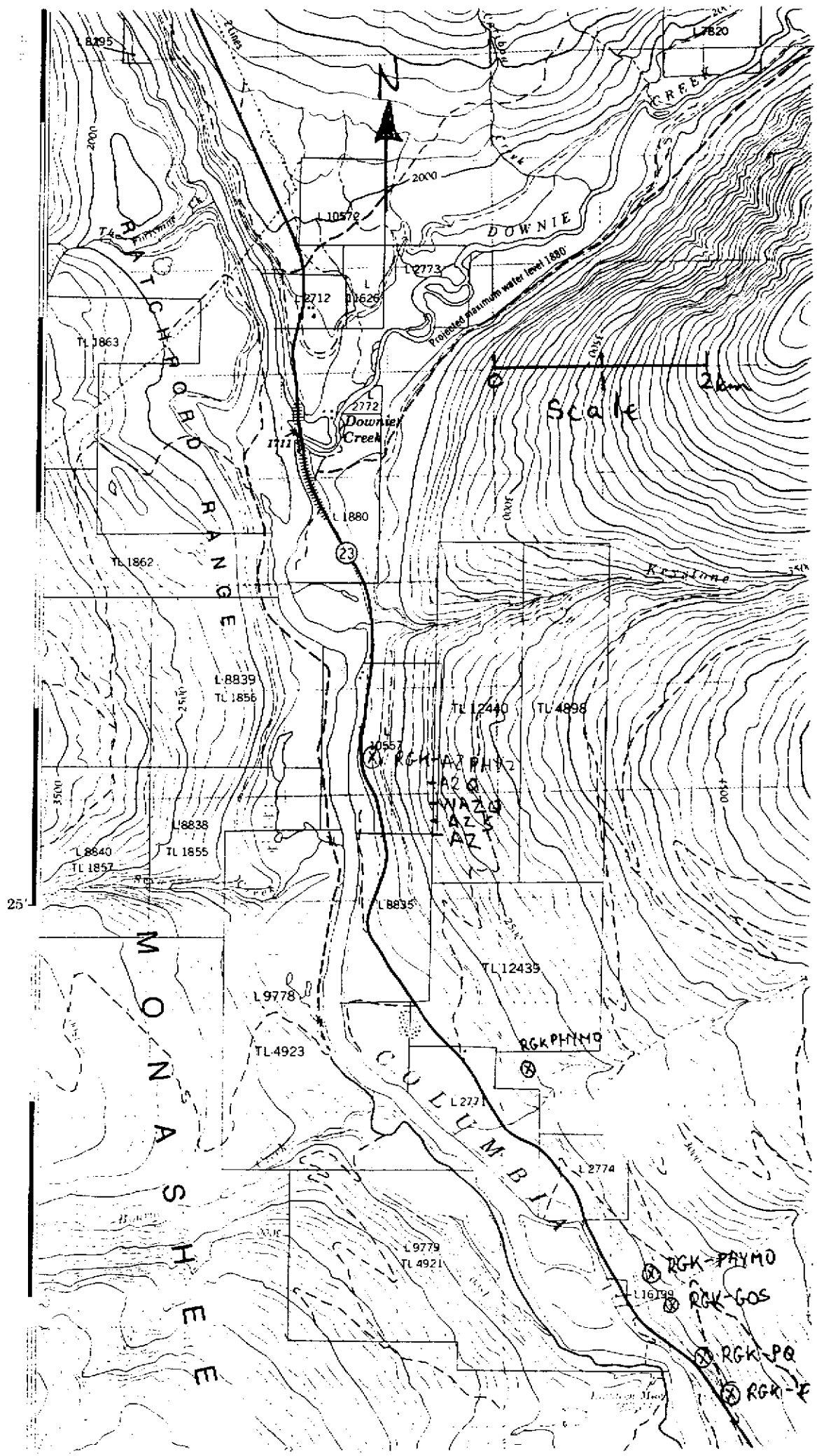
The first occurrence of marble occurred on the south side of Downie Creek just before the bridge crossing @ 22 km. The marble here was an impure medium to dark gray graphitic calcitic variety with numerous phyllitic bands. Crossing the bridge to the north, the Hamil Fm. quartzites were encountered with the marble not reappearing until one kilometers eastward thereafter. The marble at this area (float) appeared as large (6'+ diameter) boulders along a small creek and consisted of highly graphitic dark gray marble with undulose layers of lighter gray marble. This marble was so graphitic as to leave black smudges of graphite on your hands when handled. For the next 700 meters eastward along the road, primarily from observations of the float, it appeared that the underlying rock was primarily silver gray phyllites. For the next 600 meters beyond this 1/2" to 6" layers of cream white marble within the phyllite were evident. At 24.5 km from highway #23 the road ended with no bedrock apparent. A high prominent scarp on a steep slope about one mile north of the road in this area may have been marble. A boulder of about 1 ft³ consisting of milky quartz with about 15% chalcopryrite and malachite was found at this site. A subsequent search of this area failed to reveal its source or any outcrop. Photo #4 shows this float.

Further eastward about 1 kilometer beyond the road and north of Downie Creek, several white scree slopes along a monumental cliff both consisting of marble were observed and extended for at least another 6 kilometers eastward. The prominence (2,300' elevation) of this resistant ridge in this glaciated terrain suggests that the marble present in this area could be very competent and suitable for the production of large blocks. Photos 5,6 & 7 in appendix 2 show this area. Limited time for access prevented further examination of this intriguing occurrence.

Heading back westward, along the road at mileage 22.3 kilometers, a recently constructed north trending logging road up the mountain was investigated for outcrop. The only rock encountered were occasional outcrops of phyllite.



MAP 3-3



At the bridge at mileage 22 km, the road eastward along the south side of Downie Creek was examined for outcrop. Near the bridge, along the south side, abundant float of gray graphitic calcitic marble occurred as well as some banded outcrops (gray calcitic marble bands less than 1 meter wide) within a phyllite. Marble in bands of various widths (becoming progressively less graphitic going eastward) were encountered until 23.5 kilometers. At 24.5 kilometers the rock became primarily a phyllite. Minor calc tufa was noted at 22.5 along a small stream. An occurrence of honey colored botroidal marl was observed cementing surficial rocks at 23.4 km. Limited exposure was available only along the roadway where it cut into the side of a small knoll. At 28.3 km numerous float of white calcitic marble were encountered although no outcrop was located. The road ended at 29.7 km near the base of a slide about 1 kilometer ahead. Numerous white marble fragments were observed in this slide. Oncoming darkness prevented further examination of the marbles further up the mountain.

The following day, October 8, 1995, in heavy rain, an examination was made of some gossans and azurite stains noted along highway 23 south of the turnoff for the Downie Creek. This area had been previously observed, while travelling en route to Revelstoke for equipment rental, but was not studied. It seemed that the azurite staining had been much more prominent just a few days earlier but was hardly noticeable now.

On examination of the azurite stain it was observed that the azurite had leached out of a quartzite bed and that it was being washed away by the rain. Apparently, in addition to azurite, anhydrite was also being precipitated and because anhydrite was soluble, the azurite never had a chance to build up. Attached photos #1,2 & 3 in appendix 2 show this particular site. Samples from this site are noted as AZ on the attached sample location map 3-3.

Several other areas of pyrite, molybdenite and chalcopryrite were also encountered in this general area. These areas were sampled by the author, crushed at the Goldstream Mine, and sent for assay to Eco-Tech Laboratories Ltd. The results of these assays are attached in appendix 1, while the description of these samples are shown in appendix 3.

CONCLUSION

Substantial amounts of several marble varieties, both calcitic and dolomitic, were encountered in the upper reaches of Downie Creek, some of these appear to be of high chemical purity. The degree of competence of this material for the production of large blocks has not been determined due to the great extent of this marble and the time available for its examination, however the prominence of some of these outcrops (especially the calcitic varieties) suggests this area could have potential for the production of large blocks. The relatively large areas of bare rock exposed by recent glaciation would greatly facilitate the evaluation of fractures in these marbles.

The occurrence of copper in this area has been identified both in outcrop (along highway 23) and in significant quantity in float (along the north side of Downie Creek). Both these areas should be followed up for further evaluation.

APPENDIX 1
Assay Results

18-Oct-95

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 8T4

Phone: 604-573-5700
Fax : 604-573-4557

FEED FAX THIS END

FAX

On receipt please
To: _____
Dept/Contact: _____
Fax No.: Bob
No. of Pages: Komarechko
From: Sandy
Date: Jan 26/96
Company: _____
Fax No.: _____
Comments: _____
Page 13

BETHLEHEM RESOURCES CORP. AK 95-968
P.O. BOX 2970
REVELSTOKE, BC
VOE 2S0


ATTENTION: STEVE ROBERTSON

12 Rock samples received Oct. 16, 1995
PROJECT #: RGK
SHIPMENT #: None given
Samples submitted by: Steve Robertson

Values in ppm unless otherwise reported

Et #	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn	
RGKAZ 1	109528	5	0.6	0.51	<5	35	<5	0.08	<1	10	158	507	1.30	10	0.47	344	13	0.03	12	110	18	<5	<20	5	<0.1	<10	4	<10	8	31	
AZS 2	109529	10	2.8	0.89	<5	90	15	0.10	1	208	79	743	>15	<10	0.41	119	24	<0.1	58	230	20	<5	<20	8	<0.1	<10	8	<10	<1	45	
AZQ 3	109530	5	<2	1.03	<5	40	<5	0.44	2	16	152	529	3.03	<10	1.17	250	8	0.04	15	730	80	5	<20	18	0.05	<10	23	<10	<1	322	
AZPHY24	109531	10	0.8	0.44	<5	45	<5	0.19	<1	14	255	1829	1.85	30	0.28	673	30	0.03	16	80	44	<5	<20	8	<0.1	<10	3	<10	13	50	
PHY 45	109532	5	2.6	1.77	<5	75	<5	0.10	<1	14	176	5646	4.62	<10	1.12	338	13	0.01	38	80	24	<5	<20	7	<0.1	<10	18	<10	<1	109	
PYM 6	109533	5	2.0	0.23	<5	40	<5	1.41	<1	50	238	318	6.02	<10	0.61	519	2685	0.05	51	180	70	<5	<20	91	<0.1	<10	4	<10	<1	46	
GOS-17	109534	5	11.4	0.19	<5	125	<5	0.19	6	51	54	1350	>15	<10	<0.1	3	31	<0.1	312	810	370	<5	<20	15	<0.1	<10	7	<10	<1	201	
NAZPHY 8	109535	5	0.4	0.35	<5	45	<5	0.17	<1	7	154	172	1.40	<10	0.28	101	9	0.01	11	50	18	<5	<20	8	<0.1	<10	2	<10	<1	23	
PG 9	109536	5	7.2	0.25	275	80	40	0.41	<1	20	178	103	>15	<10	0.05	128	23	<0.1	58	490	240	<5	<20	16	<0.1	<10	10	<10	<1	96	
GOS 10	109537	5	0.4	0.29	<5	50	<5	13.10	1	24	49	182	4.58	<10	1.10	340	5	<0.1	43	900	22	<5	<20	343	<0.1	<10	5	<10	6	106	
SEW 11	109538	5	0.4	3.99	<5	80	<5	1.78	<1	18	146	106	4.81	<10	1.74	139	7	0.14	39	1140	64	10	<20	118	0.06	<10	31	<10	7	94	
SEW 12	109539	5	0.4	1.53	<5	55	<5	0.29	<1	26	311	105	5.69	<10	1.22	224	13	0.02	51	180	32	<5	<20	15	0.03	<10	21	<10	<1	79	
QC/DATA:																															
Repeat:																															
1	109528	5	0.4	0.51	<5	30	<5	0.08	<1	9	149	501	1.29	10	0.47	340	12	0.03	12	110	16	<5	<20	2	<0.1	<10	4	<10	8	30	
10	109537	5	0.4	0.30	<5	55	<5	14.20	1	26	54	183	5.00	<10	1.21	372	6	<0.1	50	1010	22	<5	<20	373	<0.1	<10	5	<10	6	118	
Standard:																															
GEO'95		140	1.2	1.81	70	170	<5	1.66	<1	18	58	82	3.96	<10	0.95	624	<1	0.01	24	610	22	5	<20	54	0.08	<10	72	<10	4	72	

d/968
XLS/95Bethlehem


ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

CERTIFICATE OF ANALYSIS AK 95-966

BETHLEHEM RESOURCES CORP.
P.O. Box
REVELSTOKE, B.C.
VOE 260

18-Oct-95

ATTENTION: STEVE ROBERTSON

12 ROCK samples received October 16, 1995
PROJECT #: RGK
Samples submitted by: Steve Robertson

ET #.	Tag #		Au (ppb)
1	109528	RGK-AZ	5
2	109529	RGK-AZS	10
3	109530	RGK-AZO	5
4	109531	RGK-AZPHY2	10
5	109532	RGK-PHY1	5
6	109533	RGK-PYMO	5
7	109534	RGK-GOS-1	5
8	109535	RGK-NAZPHY	5
9	109538	RGK-PQ	5
10	109537	RGK-GLARB	5
11	109538	RGK-SERUM	5
12	109539	RGK-SERAD	5

QC DATA:

Repeat:

1	109528	5
10	109537	5

Standard:

GEO95 140

FEED FAX THIS END

FAX	
To:	Steve Robertson
Dept:	
Fax No.:	
No. of Pages:	1
From:	Sandy
Date:	Oct 19
Company:	
Fax No.:	
Comments:	
<small>Page 1 of 1</small>	<small>Max pag 7803E</small>



WHOLE ROCK ICP ANALYSIS



Robert Komarechka File # 95-4216

Apt. #1 - 537 Main St., Sudbury ON P3G 1E2

SAMPLE#	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	Ba ppm	Ni ppm	Sr ppm	Zr ppm	Y ppm	Nb ppm	Sc ppm	LOI %	SUM %
01	.62	.15	.14	21.24	29.94	.06	<.04	<.01	.07	.02	.004	10	10	72	<10	<10	<10	<10	46.4	98.69
02	.30	.05	.14	21.75	30.27	.04	<.04	<.01	.06	.01	.003	154	<10	159	<10	<10	<10	<10	46.3	98.99
03	2.21	.63	.35	20.28	28.80	.06	.17	.01	.13	.02	.009	119	<10	80	<10	<10	<10	<10	45.3	98.00
04	2.14	.61	.27	8.79	43.12	.14	.06	.03	.07	<.01	.005	30	<10	174	22	<10	<10	<10	43.3	98.57
05	.79	.21	.11	2.24	52.67	.05	<.04	<.01	.04	.01	.004	75	11	1133	<10	<10	<10	<10	43.2	99.50
06	.36	.09	.17	20.74	31.31	.06	<.04	<.01	.09	.01	.008	9	21	149	<10	<10	<10	<10	46.4	99.28
07B	.98	.23	.30	19.99	31.03	.11	.04	.01	.08	.01	.005	715	<10	131	<10	<10	<10	<10	45.7	98.62
07G	.38	.08	.14	21.52	30.78	.07	<.04	<.01	.10	.01	.006	98	<10	79	<10	<10	<10	<10	46.5	99.63
07V	.34	.07	.12	18.86	30.75	.06	<.04	<.01	.08	.01	.007	17777	15	164	<10	<10	<10	<10	45.3	98.66
07X	.42	.09	.08	12.57	34.74	.08	<.04	<.01	.01	.01	.008	62863	<10	387	<10	<10	<10	<10	40.8	99.57
07YG	1.02	.25	.22	18.45	32.80	.12	.04	<.01	.09	.01	.006	8694	10	131	<10	<10	<10	<10	45.0	99.59
08	.51	.11	.16	21.67	30.37	.08	<.04	<.01	.11	.01	.008	2495	<10	262	<10	<10	<10	<10	46.1	99.62
09	.54	.09	.15	21.25	29.85	.09	<.04	<.01	.11	.01	.005	812	11	135	<10	<10	<10	<10	46.4	98.68
010	.45	.08	.20	21.21	30.46	.09	<.04	<.01	.09	.02	.005	1401	<10	121	<10	<10	<10	<10	46.3	99.18
011	.28	.04	.25	21.55	30.11	.10	<.04	<.01	.08	.03	.005	426	<10	59	<10	<10	<10	<10	46.7	99.25
RE 011	.28	.05	.25	21.42	29.91	.09	<.04	<.01	.09	.03	.005	425	<10	59	13	<10	<10	<10	46.7	98.93
RRE 011	.28	.05	.23	20.45	29.91	.10	<.04	<.01	.10	.03	.006	4536	<10	84	<10	<10	<10	<10	46.5	98.67
DW-1	2.33	.15	.08	8.86	43.70	.09	.04	.01	.07	<.01	.004	95	22	223	<10	<10	<10	<10	43.6	98.98
STANDARD SO-15	48.37	12.71	7.18	7.20	5.85	2.39	2.16	1.60	2.87	1.38	1.046	2193	94	385	763	18	17	<10	5.9	99.20

.200 GRAM SAMPLES ARE FUSED WITH 1.2 GRAM OF LiBO2 AND ARE DISSOLVED IN 100 MLS 5% HNO3. Ba IS SUM AS BaSO4 AND OTHER METALS ARE SUM AS OXIDES.

- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 20 1995 DATE REPORT MAILED: Nov 16/95 SIGNED BY: *C. Leong* TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE

Robert Komarschka File # 95-4216R

Apts #1 - 537 Hald St., Sudbury ON P3C 1E2



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	Al	Na	K	U	Zr	Sn	Y	Nb	Be	Sc
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D1	<2	2	<5	3	<.5	<2	<2	137	.10	<5	20	<4	<2	63	<.4	<5	<5	9	21.10	.005	2	3	11.13	5<.01	.05	.02	<.01	<4	<2	2	<2	2	<1	<1	<1
D2	<2	<2	<5	2	<.5	<2	<2	89	.07	<5	16	<4	2	140	<.4	<5	<5	2	21.37	.010	<2	<2	11.44	150<.01	.01	.01	<.01	<4	<2	2	<2	<2	<1	<1	<1
D3	<2	5	6	5	<.5	<2	<2	132	.24	5	14	<4	<2	72	<.4	<5	<5	3	20.88	.024	<2	9	11.01	118<.01	.30	.02	.13	<4	<2	2	<2	2	<2	<1	<1
D4	<2	4	<5	4	.5	3	<2	31	.11	<5	16	<4	<2	147	<.4	<5	<5	2	32.32	.013	4	3	4.58	17<.01	.26	.07	.03	<4	<2	2	<2	2	<2	<1	<1
D5	<2	2	<5	5	<.5	<2	<2	66	.04	<5	14	<4	<2	907	<.4	<5	<5	2	38.23	.007	4	<2	1.05	67<.01	.08	.01	.02	<4	<2	3	<2	3	<2	<1	<1
D6	<2	<2	<5	6	<.5	<2	<2	71	.09	<5	22	<4	2	126	<.4	<5	<5	2	21.20	.009	<2	<2	10.58	8<.01	.03	<.01	<.01	<4	<2	2	<2	2	<2	<1	<1
D7B	<2	9	<5	6	<.5	<2	<2	65	.11	<5	18	<4	2	111	<.4	<5	<5	2	20.90	.010	<2	<2	10.36	228<.01	.04	<.01	<.01	<4	<2	2	<2	2	<2	<1	<1
D7G	<2	2	<5	8	<.5	3	<2	68	.06	<5	19	<4	2	65	<.4	<5	<5	<2	20.27	.013	<2	<2	10.81	55<.01	.02	.01	<.01	<4	<2	2	<2	2	<2	<1	<1
D7W	<2	3	<5	5	<.5	<2	<2	49	.08	<5	20	<4	<2	131	<.4	4	<5	<2	20.51	.008	<2	<2	9.78	6513<.01	.03	<.01	.01	<4	<2	2	<2	2	<2	<1	<1
D7X	<2	3	<5	2	<.5	<2	<2	42	.04	<5	21	<4	<2	253	<.4	8	<5	2	23.14	.006	<2	<2	6.47	7571<.01	.03	<.01	.01	<4	<2	2	<2	2	<2	<1	<1
D7VG	<2	13	<5	6	<.5	<2	<2	67	.12	<5	16	<4	2	104	<.4	<5	<5	2	21.45	.016	2	3	9.46	5447<.01	.11	.03	.02	<4	<2	2	<2	2	<2	<1	<1
D8	<2	4	8	29	<.5	<2	<2	92	.09	<5	12	<4	<2	224	<.4	<5	<5	<2	20.25	.010	<2	<2	10.94	2266<.01	.04	.01	.01	<4	<2	2	<2	2	<2	<1	<1
D9	<2	7	13	25	<.5	<2	<2	71	.09	<5	15	<4	2	123	<.4	<5	<5	<2	20.10	.008	<2	<2	10.92	851<.01	.04	.01	<.01	<4	<2	2	<2	2	<2	<1	<1
D10	<2	5	8	13	<.5	<2	<2	141	.10	<5	15	<4	<2	97	<.4	<5	<5	<2	19.96	.008	<2	2	10.72	711<.01	.03	.01	.01	<4	<2	2	<2	2	<2	<1	<1
D11	<2	8	<5	9	<.5	<2	<2	203	.14	<5	15	<4	<2	50	<.4	<5	<5	4	19.40	.008	<2	2	10.71	381<.01	.01	.01	<.01	<4	<2	2	<2	2	<2	<1	<1
RE D11	<2	8	<5	11	<.5	<2	<2	202	.14	<5	14	<4	<2	51	<.4	<5	<5	3	19.54	.008	<2	2	10.81	379<.01	.01	.01	<.01	<4	<2	2	<2	2	<2	<1	<1
RRE D11	<2	6	<5	9	<.5	<2	<2	173	.12	<5	16	<4	<2	72	<.4	<5	<5	3	19.81	.008	<2	<2	10.56	4118<.01	.02	.01	<.01	<4	<2	2	<2	2	<2	<1	<1
DW-1	<2	2	<5	2	<.5	<2	<2	24	.04	<5	12	<4	<2	181	<.4	8	<5	2	30.06	.002	4	<2	4.38	75<.01	.06	.02	.01	<4	<2	2	<2	2	<2	<1	<1
STANDARD CT	21	54	37	128	5.7	75	31	1128	4.41	29	27	5	43	234	16.8	15	14	106	1.21	.115	39	102	1.22	909	.33	7.03	1.63	1.93	22	54	17	11	11	1	15

ICP - .250 GRAM SAMPLE IS DIGESTED WITH 10ML HClO4-HNO3-HCl-HF AT 200 DEG. C TO FUMING AND IS DILUTED TO 10 ML WITH DILUTED AQUA REGIA. THIS LEACH IS PARTIAL FOR MAGNETITE, CHROMITE, BARITE, OXIDES OF AL, ZR & MN AND MASSIVE SULFIDE SAMPLES. AS, CR, SB, AU SUBJECT TO LOSS BY VOLATILIZATION DURING HClO4 FUMING.

- SAMPLE TYPE: ROCK PULP Samples beginning 'RE' are Retruns and 'RRE' are Reject Retruns.

DATE RECEIVED: JAN 9 1996 DATE REPORT MAILED: *Jan 12/96* SIGNED BY: *C. Leong* .O.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

** TOTAL PAGE .002 **

APPENDIX 2
Sample Descriptions

HWY 23- KEYSTONE RIVER LOCATION

In the course of travelling to Revelstoke from the Dolly Claims for equipment rental some azurite staining in the area of the Downie Creek - Keystone River was noted. As this area was not staked samples of these rocks and adjacent sulphide rich rocks were collected, prepared by the Goldstream Mine, and sent for assay to Eco-Tech Laboratories Ltd.

The sample locations are shown on maps 3-2 and 3-3 while the descriptions of each sample is given below.

RGK-AZ	Phyllitic (sericitic) laminated quartzite with interstitial pyrite & chalcopyrite, light green colour. Note washed off samples & blue stain was removed, possible reduction in Cu content?
RGK-AZQ	quartzite/mineral musc., having abundant jarosite staining & 4% pyrite
RGK-NAZQ	Phyllitic (sericitic) laminated quartzite with interstitial pyrite & minor chalcopyrite, light gray colour.- No azurite staining, but jarosite stain.
RGK-AZS	sheared quartz, granite clot/ massive pyrite located at south end of outcrop near bushes.
RGK-PQ	quartzite/abundant 20% pyrite & possible arsenopyrite located at turn off for Nisson Forest Road
RGK-PHYMO	standard Basin turnoff (Keystone Lake Rd)
RGK-AZPHY2	same RGK-AZ but unwashed fines.
RGK-PHY-1	malachite stain on phyllite - most southern sample located near quartz veins
RGK-GOS	heavy gossan with possible chalcocite & bornite

DOWNIE CREEK SAMPLE

DW-1

graphitic calcitic marble, medium gray to black,
with undulose boudinaged bedding, dark gray to
black on fresh surfaces.

APPENDIX 3
Photo Descriptions



Photo #1- Taken along highway 23 at the AZ sample locations see map 3-3, note azurite staining within recess of crack.

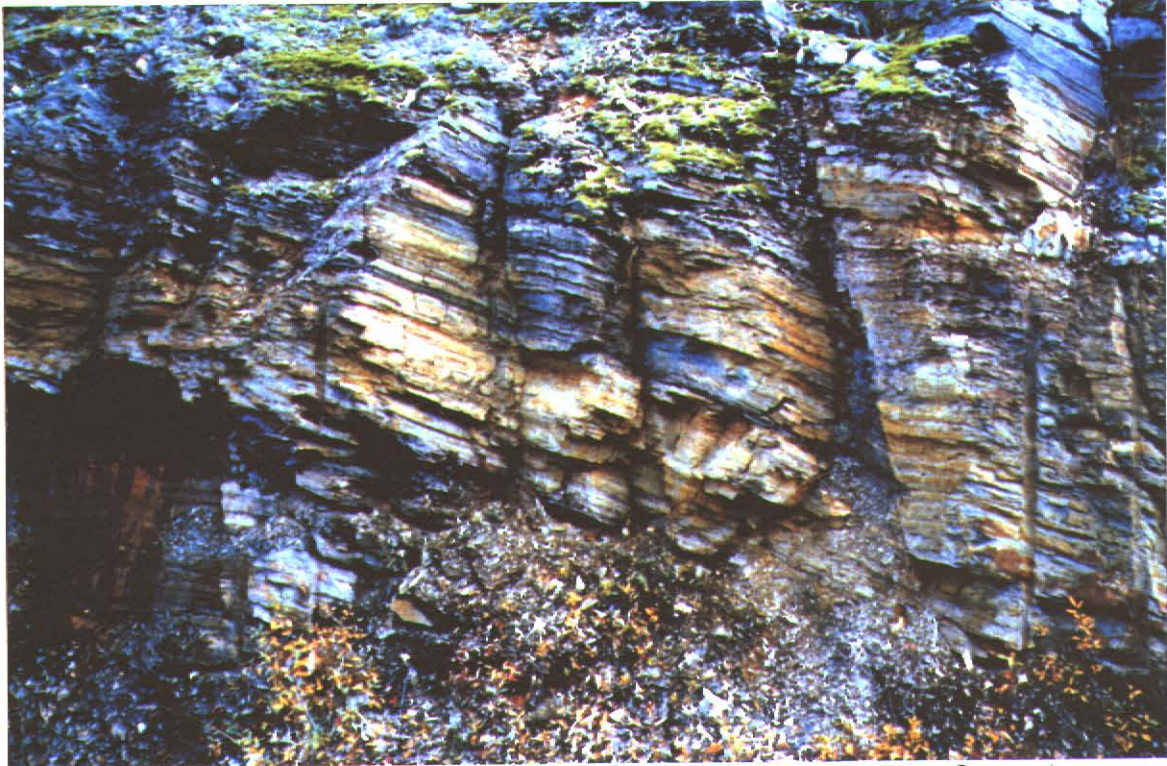


Photo #2- Location near photo #1 showing continuity of azurite leach along jarosite - limonite? stained sericitic quartzite



Photo #3- Same location as photo 2 showing close up of azurite staining



Photo #4- Located at east end of logging road on N side of Downie Ck. see map 3-2. Quartz float containing pyrite, chalcopyrite and malachite.



Photo #5- Looking northward across Downie Creek showing slide of apparent white marble. See map 3-2 for location. This site was not accessed.



Photo #6- Prominent cliff face at east end of photo 5, believed to be comprised of marble. This site was not visited.



Photo #7- View of same prominent cliff as shown earlier showing lower section and talus slope

ADDENDUM - Miscellaneous Samples

During the course of undertaking work on the dolly claims while in search of local contractors with equipment nearby (to minimize float charges) several interesting rusty zones along the south side of the Goldstream River near the logging road were encountered which were subsequently sampled and assayed. The results of these samples are attached along with a map showing their location.

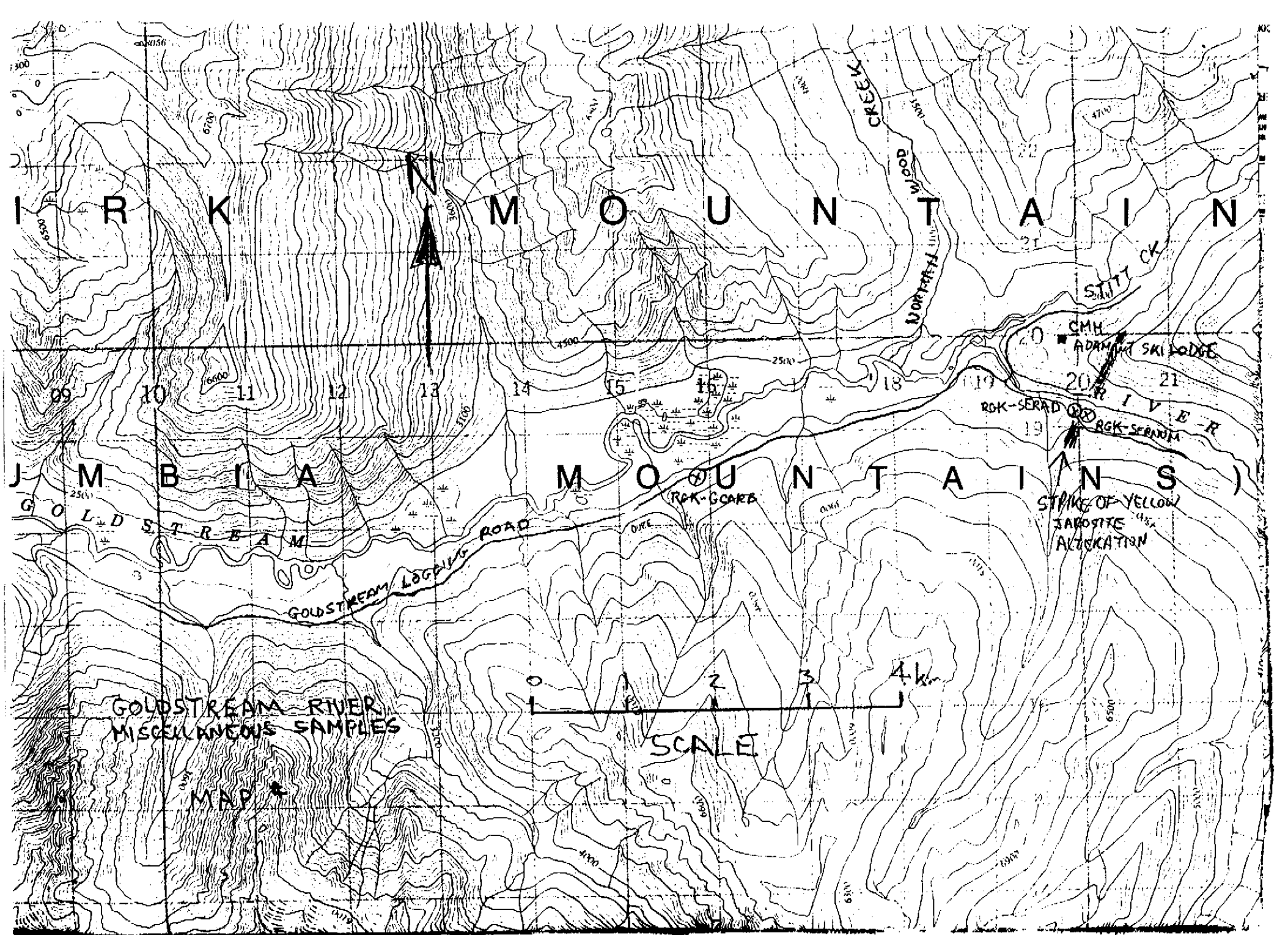
No values of significance were found in any of these samples.

SAMPLE DESCRIPTION

RGK-GCARB - Rusty orange-yellow weathering carbonate matrix with minor pyrite and mariposite.

RGK-SERNUM - Muscovite quartzose schist with abundant yellow jarosite & sericite alteration.

RGK-SERAD - Muscovite quartzite with pyrite



CERTIFICATE OF ANALYSIS AK 95-966

BETHLEHEM RESOURCES CORP.
 P.O. Box
 REVELSTOKE, B.C.
 V0E 2S0

18-Oct-95

ATTENTION: STEVE ROBERTSON

12 ROCK samples received October 16, 1995
 PROJECT #: RGK
 Samples submitted by: Steve Robertson

ET #.	Tag #		Au (ppb)
1	109528	RGK-AZ	5
2	109529	RGK-AZ5	10
3	109530	RGK-AZ0	5
4	109531	RGK-AZPHY2	10
5	109532	RGK-PHY1	5
6	109533	RGK-PYMO	5
7	109534	RGK-GOS-1	5
8	109535	RGK-NAZPHY	5
9	109536	RGK-PQ	5
10	109537	RGK-C-LARB	5
11	109538	RGK-SERNM	5
12	109539	RGK-SERAD	5

QC DATA:

Repeat:

1	109528	5
10	109537	5

Standard:

GEO95 140

~~ECO-TECH LAB.~~
 FEED FAX THIS END

FAX

To: Steve Robertson

Dept: _____

Fax No.: _____

No. of Pages: 1

From: Sandy

Date: Oct 19

Company: _____

Fax No.: _____

Comments: _____

Faxpak™ fax pad 7402E

19-Oct-95

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

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To: _____
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 No. of Pages: *Kovarschko*
 From: *Sandy*
 Date: *19 Oct 1995*
 Company: _____
 Fax No.: _____
 Comments: _____
 Price: _____
 (in 1000's)

BETHLEHEM RESOURCES CORP. AK 95-968
P.O. BOX 2970
REVELSTOKE, BC
VOE 2S0

ATTENTION: STEVE ROBERTSON

12 Rock samples received Oct. 16, 1995
PROJECT #: RGK
SHIPMENT #: None given
Samples submitted by: Steve Robertson

Values in ppm unless otherwise reported

Et #	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
RGK-AZ 1	109528	5	0.6	0.51	<5	35	<5	0.08	<1	10	158	507	1.30	10	0.47	344	13	0.03	12	110	18	<5	<20	5	<0.1	<10	4	<10	8	31
-AZS 2	109529	10	2.8	0.69	<5	90	15	0.10	1	206	79	743	>15	<10	0.41	119	24	<0.1	58	230	20	<5	<20	6	<0.1	<10	9	<10	<1	45
-AZQ 3	109530	5	<2	1.03	<5	40	<5	0.44	2	16	152	529	3.03	<10	1.17	250	8	0.04	15	730	80	<5	<20	18	0.05	<10	23	<10	<1	322
-AZPHY 24	109531	10	0.8	0.44	<5	45	<5	0.19	<1	14	255	1629	1.85	30	0.28	873	30	0.03	15	80	44	<5	<20	8	<0.1	<10	3	<10	13	50
-PHY 5	109532	5	2.6	1.77	<5	75	<5	0.10	<1	14	178	5648	4.02	<10	1.12	358	13	0.01	38	80	24	<5	<20	7	<0.1	<10	18	<10	<1	109
-PYM 6	109533	6	2.0	0.23	<5	40	<5	1.41	<1	50	238	316	6.02	<10	0.61	619	2685	0.05	51	180	70	<5	<20	91	<0.1	<10	4	<10	<1	46
GDS-1 7	109534	5	11.4	0.48	<5	125	<5	0.18	6	51	54	1350	>15	<10	<0.1	3	31	<0.1	312	810	370	<5	<20	15	<0.1	<10	7	<10	<1	201
MAZPH 8	109535	5	0.4	0.35	<5	45	<5	0.17	<1	7	154	172	1.40	<10	0.26	101	9	0.01	11	50	18	<5	<20	8	<0.1	<10	2	<10	<1	23
PA 9	109536	5	7.2	0.25	275	80	40	0.41	<1	20	176	103	>15	<10	0.05	128	23	<0.1	58	490	240	<5	<20	16	<0.1	<10	10	<10	<1	96
GCAMB 10	109537	5	0.4	0.29	<5	50	<5	13.10	1	24	49	162	4.58	<10	1.10	340	5	<0.1	43	900	22	<5	<20	343	<0.1	<10	5	<10	6	108
SEANM 11	109538	5	0.4	3.99	<5	80	<5	1.78	<1	18	148	106	4.81	<10	1.74	139	7	0.14	39	1140	64	10	<20	118	0.06	<10	31	<10	7	94
SEAD 12	109539	5	0.4	1.53	<5	55	<5	0.29	<1	26	311	105	5.89	<10	1.22	224	13	0.02	51	180	32	<5	<20	15	0.03	<10	21	<10	<1	79
QC/DATA:																														
Repeat:																														
1	109528	5	0.4	0.51	<5	30	<5	0.08	<1	9	149	501	1.29	10	0.47	340	12	0.03	12	110	18	<5	<20	2	<0.1	<10	4	<10	6	30
10	109537	5	0.4	0.30	<5	55	<5	14.20	1	26	54	183	5.00	<10	1.21	372	8	<0.1	50	1010	22	<5	<20	373	<0.1	<10	5	<10	6	118
Standard:																														
GEO95		140	1.2	1.61	70	170	<5	1.66	<1	18	58	82	3.96	<10	0.95	624	<1	0.01	24	610	22	5	<20	54	0.08	<10	72	<10	4	72

[Signature]
ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

ATTACHMENT 'A'

SUMMARY REPORT on the MARBLE EVALUATION of the DOLLY CLAIMS

TARGET - Carving and dimension stone grade white marble occurring within a tectonically thickened folded metamorphosed high purity dolomitic segment of the lower Cambrian age, Badshot Formation.

PROPERTY NAME - The Dolly Marble Property

LOCATION - The Dolly Marble Property is located about 100 road kilometers north of the city of Revelstoke, B.C. or more exactly, 4 kilometers east of the confluence of the Goldstream and Columbia Rivers. It is located within the Revelstoke Mining Division and is found within the Hoskins Creek map - NTS 82M/10.

ACCESS - Access to the property is obtained by driving 90 kilometers northward on Highway #23 from the intersection of the Trans Canada highway in Revelstoke then turning right on to Bethlehem's Goldstream mine road for about 5 kilometers then turning left along the canoe take out road for 4.1 kilometers where a recently constructed good logging road branches to the left, up the side of the hill, to the property. See attached map of (n).

CLAIM OWNERSHIP - This program will be performed on 12 - 2 post mineral claims recorded in the name of Robert Gerald Komarechka, FMC#114456, of Apt. #1 537 Haig Street, Sudbury, Ontario, P3C 1E2. An unregistered 1/3 interest is held by each of Gord Hurlburt of #43 1815 Varsity Estates Dr. N.W., Calgary, Alberta, T3B 3Y7, Kory Koke of 2612 13th Ave., N.W., Calgary, Alberta, T2N 1L9 and the recorded holder. These claims are listed below:

Claim Number	Claim Name	Units & Type
640701	DOLLY 1	1 unit 2 post minineral claim
640702	DOLLY 2	1 unit 2 post minineral claim
640703	DOLLY 3	1 unit 2 post minineral claim
640704	DOLLY 5	1 unit 2 post minineral claim
640708	DOLLY 4	1 unit 2 post minineral claim
651299	DOLLY 10	1 unit 2 post minineral claim
651300	DOLLY 11	1 unit 2 post minineral claim
651301	DOLLY 12	1 unit 2 post minineral claim
651302	DOLLY 13	1 unit 2 post minineral claim
651303	DOLLY 14	1 unit 2 post minineral claim
651304	DOLLY 15	1 unit 2 post minineral claim
651305	DOLLY 16	1 unit 2 post minineral claim

OPTIONS or CONTRACTUAL OBLIGATIONS - No contractual obligations exist on these claims at this time. Discussions are currently being conducted regarding a potential option agreement on this property with several prospective firms.

REGIONAL, LOCAL & PROPERTY GEOLOGY - Regionally, the Dolly Claims are located within the western portion of the Selkirk Mountains near the contact with the Shuswap Metamorphic Complex. A fault in the bed of the Columbia River divides

the Selkirks to the east from the Monashee Mountains in the Shuswap Complex to the west. The rocks in the vicinity of the claims are moderately metamorphosed (greenschist facies) with the metamorphic grade increasing in intensity to the northwest (Wheeler, 1965). Regionally, foliation tends to strike from about 270-360°. Dips vary widely depending on fault blocks orientation and folding. The original strike of most beds was likely from the northwest to southeast, but up to three phases of deformation (Hoy, 1979) complicates the situation.

The oldest rocks in this area are the Proterozoic and/or Lower Cambrian rocks of the Horsethief Creek Group. Lithology includes dark grey to dark brown slates and phyllites with scattered bands of quartz-mica schist, quartzite and impure marble. Limy and arenaceous bands are common near the top where the contact with the overlying Hamill Group is probably transitional. The recessive nature of this formation and the presence of rotated blocks makes identification and the determination of structural relationships difficult.

Of Lower Cambrian age and overlying the Hamill Group is the Badshot Formation. This is a persistent carbonate unit that parallels the Columbia River for several hundred kilometers as far as the south Kootenays (Wheeler, 1965). In the immediate vicinity of the Dolly Claims it is composed of snow-white to buff dolomitic marble with banded gray-white calcitic marble near its base.

Above the Badshot Formation lies the dark grey frequently graphitic slates and phyllites of the Lardeau Group. Schist, quartzite and thin marble stringers are known from this group but are not dominant in the map area. Within the Lardeau Group and near the contact of the Badshot lies a talc magnesite trend of pods associated with minor sulphides.

Locally the major rock type consists of a white dolomitic marble of the Badshot Formation. To the north of the local area the Badshot narrows to a 800 meter band of darker buff to tan microcrystalline dolomite. In the vicinity of the Dolly Claims the dolomite turns to marble becoming whiter and more dense.

No trace of the southern strike continuation was found for the Badshot more than 1 kilometer to the south of the Dolly Claims. This information, combined with strike and dip measurements, suggest a fold structure with the Dolly Claims being staked along the eastern tectonically thickened arm of the Badshot. The western arm of this fold structure occurs along the high tension hydro line and the apex of this folded Badshot Marble lies just to the north of the Dolly Claims. It has also been suggested that this area may represent an allochthon slice of inverted stratigraphy (Read & Brown 1981). The result of these two observations suggest an inverted anticlinal structure. From field measurements it is suggested that the axis of this fold structure plunges to the north.

From outcrop exposures and ripped up bedrock, made apparent by the recent logging activities in this area, it appears that almost all of the area underlain by the Dolly Claims is primarily dolomitic white marble. This wide width (apparently 1200 meters), and the occasional presence of recrystallized coarse grained marble may suggest a tectonic thickening of the Badshot. There appears to be a variation of marble from east to west across this eastern arm. In the cleared area along the east-west claim boundary of Dolly 1 and Dolly 2 it was found that the more eastern exposures of white marble exhibited a faint fuzzy light grey veiling while the marble exposures to the west of this boundary were an even homogeneous white colour exhibiting a very fine grained to microcrystalline texture. Going further westward along the east-west claim boundary between Dolly 3 and Dolly 4 we find a local area of brilliantly white recrystallized medium grained marble. Finally, westward toward the south claim boundary of Dolly 5 we find banded white and gray calcareous marble. It should be noted that these observations are based on some widely spaced outcrops as overburden cover is extensive and of variable thickness.

Numerous angular rocks in the disturbed overburden confirm these general observations along other logged areas, southward up the hill, along strike.

CURRENT EXPLORATION STATUS - The current holders of the Dolly Claims, namely, Gord Hurlburt, Robert Komarechka and Kory Koke, have carried out exploration on the Badshot white dolomitic marbles in this area since 1986 and have held claims off and on along the western flank of the fold structure and northward. Assessment work on these claims (the Oro Viejo Group) undertaken in the summer of 1987 and 1988 in the form of geological mapping, line cutting of a grid and geochemical analysis indicated an immense reserve in excess of 25 million tonnes of *98% pure dolomite (Meyer, B. H., 1988). Several samples were also cut and took a high gloss when polished. An initial attempt was made to promote this occurrence for its mineral filler potential but distance to market proved a deterrent. Problems with regard to title of these resources (some land had surface rights previously allocated, recreational development restrictions, powerline right of ways and confusion regarding the staking of dolomite resources at this time of revision of the act) deterred promotion and further development, with the result the claims were allowed to lapse.

As a result of the above mapping, the existence of a possible fold structure with an eastern limb of white dolomitic marble was anticipated but never verified. In November of 1993 as a result of several claims lapsing in this area, and the recent interest in dimension stone, this area was examined and found to contain extensive unmapped white dolomitic marble. The observation of this marble was made apparent primarily due to the result of clearcutting in this area. A total of 12 claims were staked in this area to cover the majority of this eastern limb occurring on untitled crown land as confirmed in conversations with Phil Wellock, acting Gold Commissioner in Revelstoke and others

Surface grab samples collected from this area were given to several carvers for their comments. Samples were also shown to several marble dimension stone producers who indicated the possibility of some involvement. Communications are currently continuing with these marble producers.

RECOMMENDED WORK PROGRAM - The recommended work program could consist of two phases. Positive results of each phase will justify the next.

Phase #1 - Consisting of linecutting a baseline along strike (more or less north-south) with lines at 90° to the strike 100 meters apart and locating stations 25 meters apart, followed by a gradient magnetometer survey, mapping and locating at least one diamond drill fence across the strike of this marble. The diamond drill program would recover core to be examined to determine the variations in texture across the marble bed and to determine the fracture density and orientation at depth. This information is required to determine the marketability of the stone and to determine the most suitable orientation of a quarry face to maximize block size extraction. It is anticipated that the diamond drill holes would be drilled on a westward bearing dipping about 45° and drilled to a depth of 144 meters. This would require about 12 holes to completely section the width of this bed for each fence giving a total footage of $(12 \times 144 \times 3.28) = 5670$ feet. As positive results are received from the drill program, phase #2 will be undertaken.

Phase #2 - Will consist of stripping at least one area with the intention of preparing a small quarry face for the production of some blocks for carving, ASTM testing purposes and production of some tiles for market acceptance. No more than 1,000 tonnes would be removed from any claim.

Pending results of phase 2, ASTM testing and market acceptability, a decision may be made as to whether to maintain the quarry strictly as a carving stone

quarry, drill off another fence and evaluate alternate quarry test sites or consider application under the Land Tenure Act for commercial production of dimension stone.

ESTIMATED STARTING DATE OF PROGRAM - Once funding is secured and permits approved it is hoped that work would start at least by August 1994.

ESTIMATED COMPLETION DATE OF PROGRAM - It is intended that the field work for this program will be completed by November 1, 1995. The results from the ASTM tests and market response should be available by January.

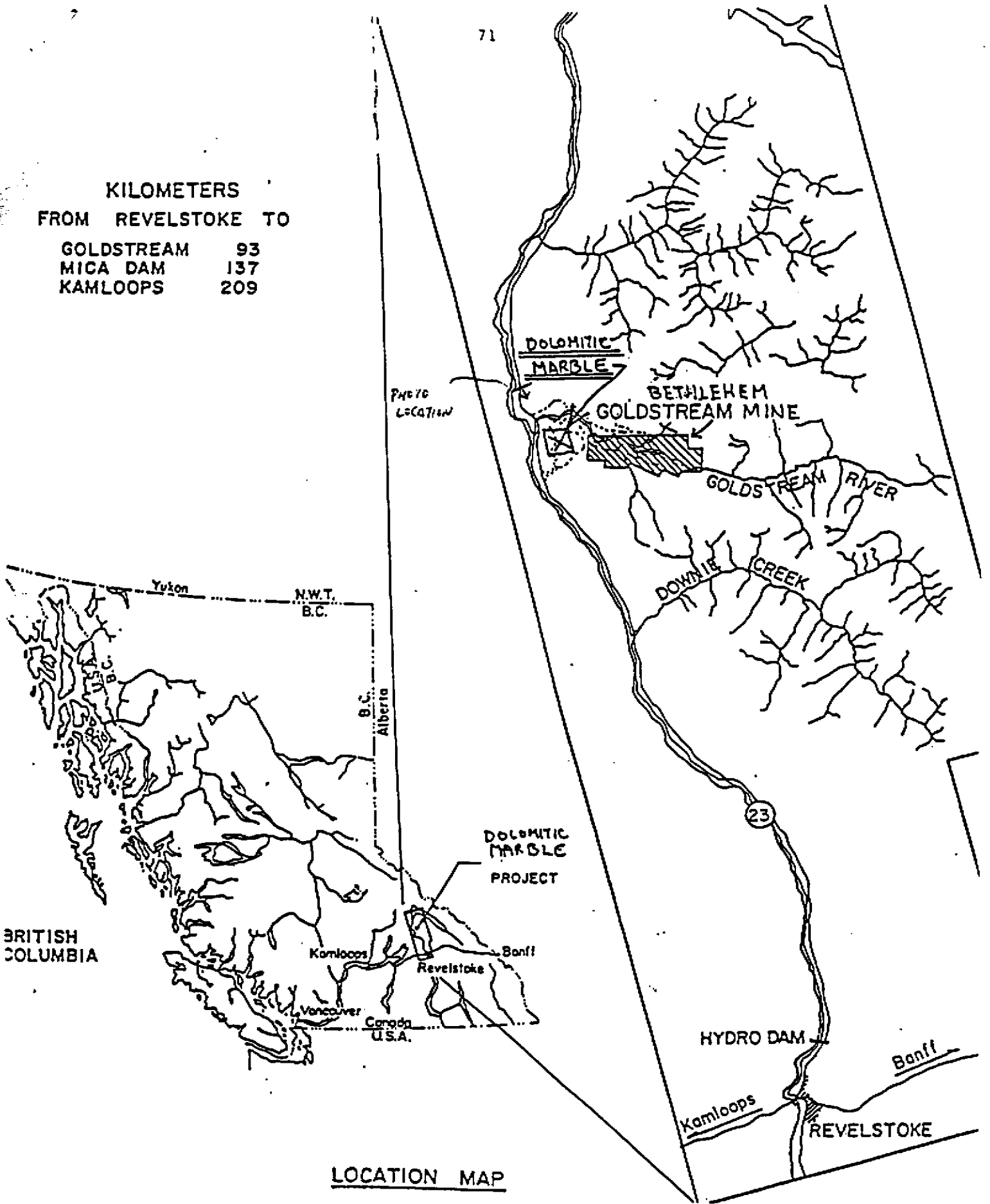
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71

KILOMETERS
FROM REVELSTOKE TO

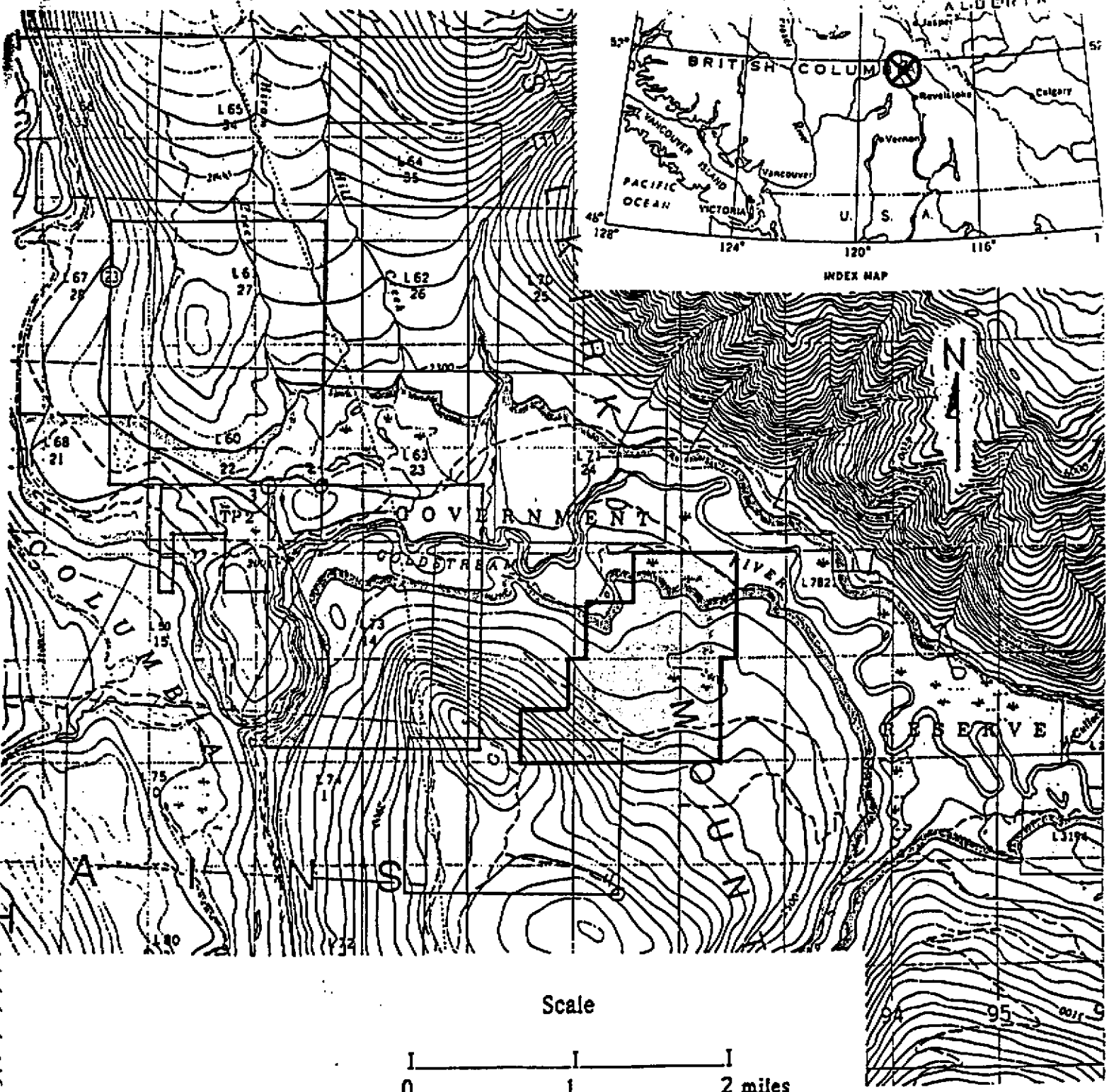
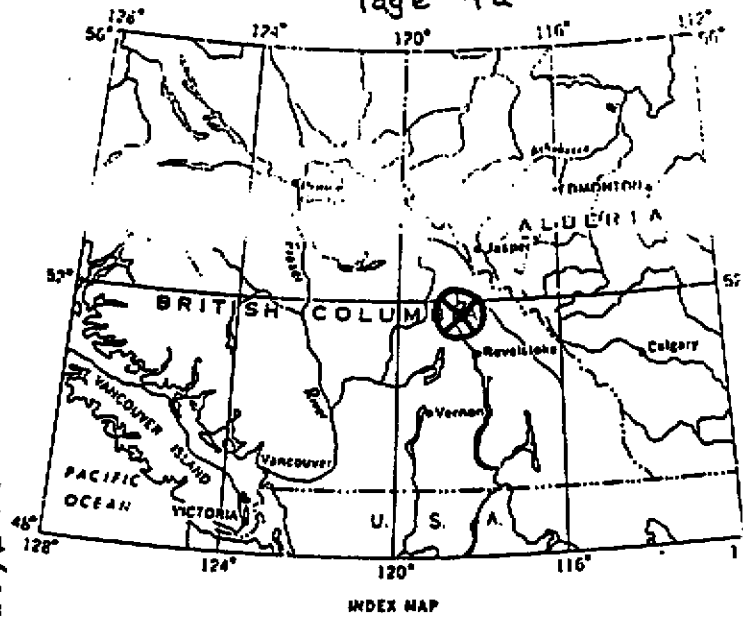
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MICA DAM	137
KAMLOOPS	209



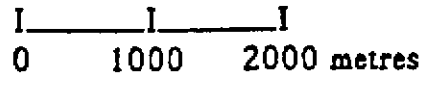
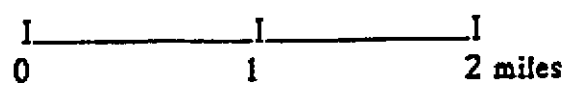
LOCATION MAP

FIGURE #1

Map 1 Index Map

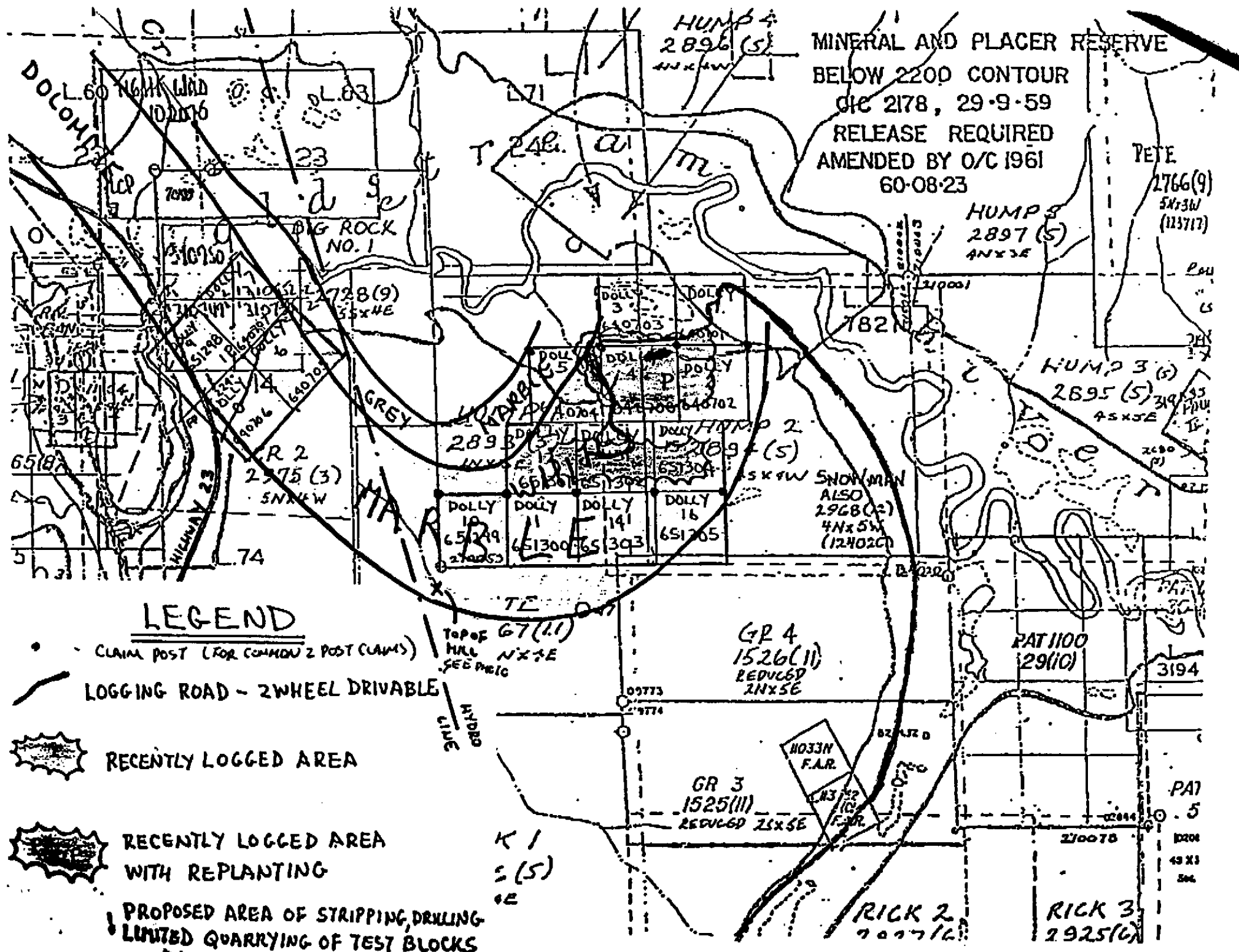


Scale



Reproduced from Hoskins Creek topographical map 82M/10

Map 1
Index Map



MINERAL AND PLACER RESERVE
 BELOW 2200 CONTOUR
 GIC 2178, 29-9-59
 RELEASE REQUIRED
 AMENDED BY O/C 1961
 60-08-23

YETE
 2766(9)
 5X3W
 (113717)

HUMP 5
 2897 (S)
 4N X 3E

HUMP 3 (S)
 2895 (S)
 4S X 5E

SNOWMAN
 ALSO
 2968 (C)
 4N X 5W
 (12402C)

GR 4
 1526 (II)
 REDUCED
 2N X 5E

GR 3
 1525 (III)
 REDUCED 2S X 5E

RICK 2
 7027 (C)

RICK 3
 2925 (C)

LEGEND

- CLAIM POST (FOR COMMON 2 POST CLAIMS)
- LOGGING ROAD - 2WHEEL DRIVABLE
- ▨ RECENTLY LOGGED AREA
- ▨ RECENTLY LOGGED AREA WITH REPLANTING
- ▨ PROPOSED AREA OF STRIPPING, DRILLING, LIMITED QUARRYING OF TEST BLOCKS

TOP OF HILL
 67 (II)
 N X 3E
 SEE PAGE

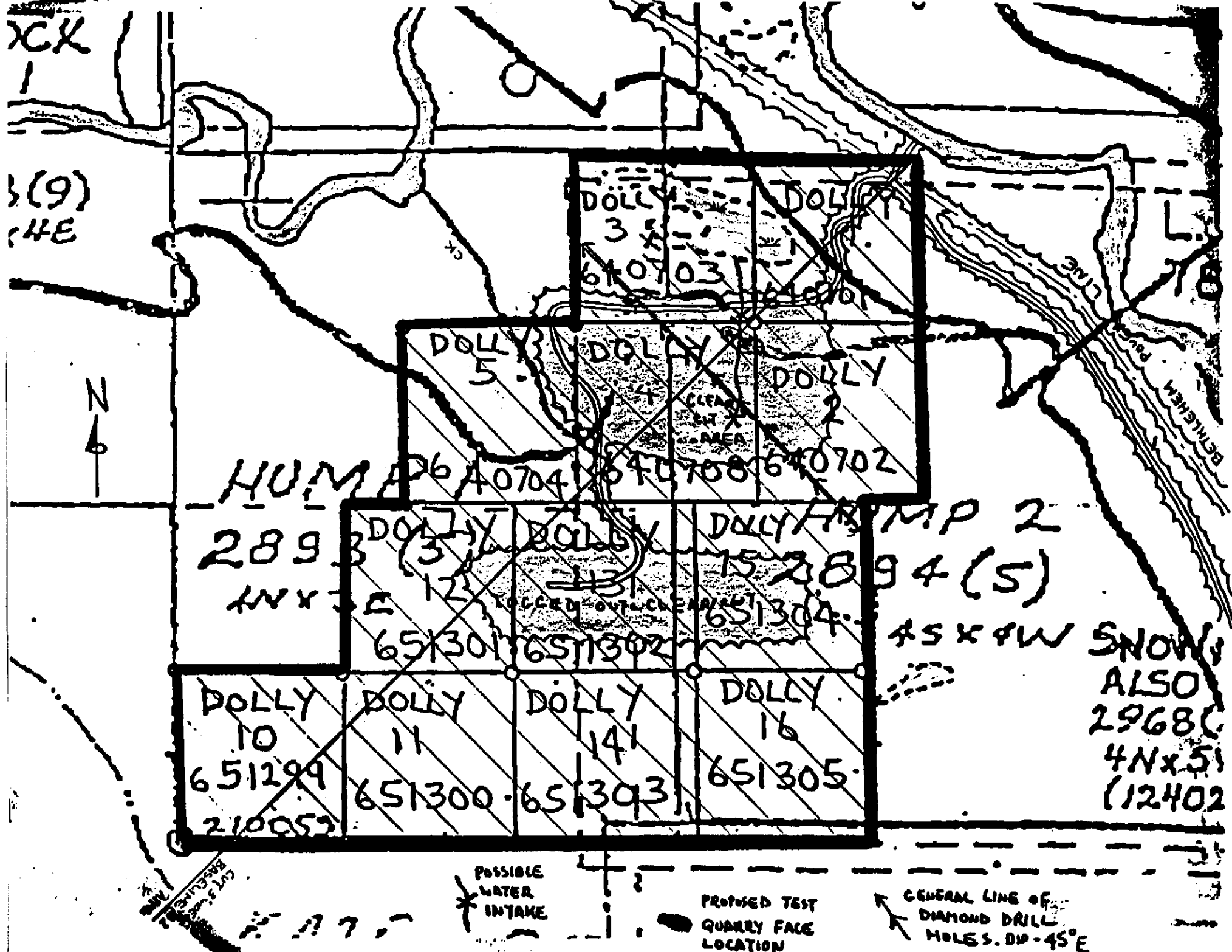
HYDRO
 LINE

K 1
 2 (S)
 02

1033N
 F.A.R.

1033
 F.A.R.

PAT
 5
 1200
 43 X 3
 504



INFO TAKEN FROM:

OPEN FILE REPORT
PREPARED FOR THE

B.C. GEOLOGICAL SURVEY TITLED

LIMESTONE; DOLOMITE

RESOURCES OF BRITISH COLUMBIA

BY PETER S FISCHL

APRIL 29, 1991

0.92 per cent Fe_2O_3 (McCammon 1964). The dolomite is trucked to the company's plant in Sirdar where it is crushed, ground and screened to produce a variety of sized products for use in fillers, for decorative and architectural purposes and for agricultural lime.

A second deposit of dolomite on the east side of the Columbia River, 78 kilometres north-northwest of Revelstoke, was mapped and sampled by R.G. Komarechka in 1987. The dolomite is snow-white, microcrystalline, earthy to chalky and massive. The deposit contains a zone of high-purity dolomite (95-99 per cent dolomite), which strikes north-northwest for 4 kilometres with a width of 500 metres in the north and over 1500 metres in the south. Of 27 samples collected over a 7.3 kilometres strike length 19 contained greater than 21 per cent MgO and seventeen contained less than 0.10 per cent SiO_2 (Komarechka 1987).

The Reeves limestone comprises the basal carbonate member of the Laib Formation, a succession of phyllite, schist, quartzite and limestone exposed in three belts extending northeastward from the U.S. border, south of the Pend d'Oreille River and east of the Salmo River, for lengths of up to 40 kilometres (Figure 2). The more significant limestone occurrences are all in the western most belt, where the Reeves member is 90 to 107 metres in thickness. The limestone is grey and white banded to black and white banded to a more uniform grey or white, fine to medium-grained, with minor quartz and muscovite. The limestone is locally altered to buff-weathering, black to light grey, faintly banded to massive and fine-grained dolomite. Dolomite masses are frequently associated with sulphide mineralization in the western belt.

Table 1

Dolomite Geochemical Analysis

Jobs: 87-260

Sample Number	SiO2 -X-	Al2O3 -X-	CaO -X-	MgO -X-	Na2O -X-	K2O -X-	Fe2O3 -X-	MnO -X-	TiO2 -X-	LOI -X-	Total -X-
1	0.19	0.06	30.08	21.72	0.009	0.004	0.13	0.008	0.02	47.00	99.21
2	0.06	0.02	30.64	21.22	0.003	0.001	0.16	0.008	0.02	47.15	99.28
3	0.04	0.02	30.22	21.55	0.003	0.001	0.17	0.008	0.02	47.15	99.18
3a	0.09	0.02	30.08	21.72	0.007	0.001	0.10	0.006	0.02	46.95	98.98
4	0.09	0.06	30.36	21.55	0.005	0.004	0.17	0.010	0.02	46.90	99.16
5	0.09	0.06	29.94	21.72	0.004	0.002	0.16	0.008	0.02	47.00	98.99
6	0.96	0.30	49.66	4.59	0.012	0.040	0.19	0.012	0.03	43.75	99.55
6a	1.16	0.43	42.25	10.50	0.009	0.057	0.39	0.023	0.03	44.65	99.49
7	0.06	0.04	30.50	21.39	0.004	0.001	0.09	0.006	0.02	46.90	99.00
8	2.80	0.81	40.71	10.59	0.100	0.013	0.60	0.039	0.03	43.30	99.01
9	4.06	1.28	43.37	7.53	0.066	0.308	0.53	0.021	0.07	42.25	99.49
10	0.09	0.06	30.36	21.55	0.007	0.001	0.13	0.006	0.02	46.95	99.16
11	0.06	0.04	30.50	21.22	0.011	0.001	0.33	0.090	0.02	46.85	99.12
12	0.09	0.06	34.28	18.07	0.005	0.002	0.19	0.057	0.02	46.50	99.26
13	0.11	0.04	30.22	21.55	0.007	0.001	0.13	0.021	0.02	47.10	99.19
14	0.06	0.04	30.50	21.39	0.015	0.004	0.11	0.019	0.02	47.05	99.21
15	0.17	0.06	30.22	21.55	0.007	0.002	0.11	0.009	0.02	47.00	99.15
15a	0.19	0.08	30.64	21.22	0.011	0.001	0.14	0.013	0.02	46.85	99.16
16	0.06	0.04	31.06	20.89	0.009	0.006	0.16	0.034	0.02	46.95	99.22
17	0.28	0.15	49.10	5.41	0.016	0.022	0.10	0.014	0.02	44.00	99.11
18	0.06	0.06	30.64	21.22	0.005	0.001	0.26	0.044	0.02	46.90	99.21
19	0.04	0.04	30.22	21.55	0.003	0.001	0.16	0.041	0.02	46.95	99.02
20	0.05	0.04	30.22	21.55	0.003	0.002	0.20	0.014	0.02	47.05	99.16
21	0.24	0.11	48.69	5.99	0.005	0.006	0.19	0.026	0.02	44.00	99.16
22	0.04	0.04	30.50	21.39	0.012	0.001	0.27	0.049	0.02	47.00	99.32
23	0.06	0.04	30.78	21.06	0.003	0.001	0.29	0.048	0.02	46.90	99.19
24	0.04	0.04	31.62	20.39	0.003	0.001	0.11	0.027	0.02	46.60	98.85

Sample Number	Cu ppm	Ag ppm
9	4	<0.1
11	3	<0.1