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**GEOLOGY • GEOPHYSICS  
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GEOLOGICAL AND GEOCHEMICAL

ASSESSMENT REPORT

on the

GOLDEN CACHE PROPERTY

Lillooet Mining Division

Lat.  $50^{\circ} 39' N$

Long.  $122^{\circ} 05' W$

N.T.S. 92 J/9E

for

ORMONT EXPLORATION LTD.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

by

Lionel T. [unclear]

and

Donald G. Allen, P. Eng.

**12,571**

December 31, 1983

Vancouver, B. C.

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SUMMARY

Ormont Exploration Ltd. holds the Golden Cache property comprising 18 claims and claim units in the Cayoosh Creek area of southwestern British Columbia. The property is situated 10 kilometres southwest of Lillooet and is accessible by road. The property, formerly known as the Golden Cache, Ample, and Bonanza-Cache, was first worked in 1896 and was equipped with a 10 ton per day stamp mill. Production from a quartz vein on the Golden Cache showing between 1897 and 1901 totalled 2789 tonnes of ore containing 22,611 grams of gold.

The property is underlain by Triassic metasedimentary rocks (phyllite, biotite schist, chlorite schist) of the Bridge River Group. Stocks, sills and dikes of porphyritic granite, felsite and quartz-feldspar porphyry outcrop on the western part of the property. Gold-bearing quartz veins (Excelsior, Golden Cache showings and veins on cliff on Surprise claim) strike northwesterly and dip gently at 10 to 30° to the southwest and northeast, parallel to bedding and foliation of the metasediments. The veins carry minor amounts of pyrite and free gold.

During the period October 22 to 31, 1983, the known showings were examined and sampled and geochemical soil sampling undertaken to locate any other possible zones of interest.

## CONCLUSION

The geochemical sampling has outlined three low order anomalies in the vicinity of old workings. The mapping, while only partial, identified the chloritic-schist as host rock favourable for development of quartz vein systems. The contact area between intrusive and sedimentary rock is also favourable for development of additional veins.

A detailed study of the structural geology involved in the sediment foldings and the associated quartz veins might help in finding new targets where thick quartz veins and sulphide concentration might occur. Veins might be present in gully covered by rock fragments.

Exploration potential on the known showings appears to be limited. Some further exploration is warranted on the Maude claim.

## RECOMMENDATION

No further work is recommended at this time. However, should it be possible to enlarge claim holdings on the south side of Cayoosh Creek, then further work would be warranted in the vicinity of showings on the Maude claim.

## INTRODUCTION

Ormont Exploration Ltd. holds title to eighteen claims and claim units in the Cayoosh Creek area near Lillooet, B.C. The property is referred to in various government reports as the Golden Cache, Ample and Bonanza Cache. For the purpose of this report, it will be referred to as the former. The property was first worked in 1896 and was equipped with a ten ton per day stamp mill. Production from 1897 to 1901 totalled 2,789 tonnes of ore containing 22,611 grams of gold (average 0.24 ounces per ton). Some development work and drilling were carried out in 1932-1935 and 1947.

During the period of October 22 to 31, 1983, a program of geochemical sampling and geological mapping was carried out on the property. The work was done by L. Tanguay, S. Travis and J. Travis.

The soil sampling program was carried out over poorly exposed outcrop areas at 100 metre intervals on lines spaced 100 metres apart (Figure 5). Detailed sampling was also carried out locally on 25- and 50- metre centres. A total of 285 soil samples were collected and each was analyzed for gold by standard atomic absorption techniques by Rossbacher Laboratory Ltd. Results are tabulated in Appendix I and anomalous values plotted on Figure 5.

A good portion of the exposed bedrock is found on a steep

ridge with a slope ranging from  $30^{\circ}$  to near vertical. The mapping on these steep hills is perilous and the gully often offers the only access for mapping purposes.

About 50% of the property was mapped and the old workings were visited and sampled. About 120 rock samples were collected and 54 were analyzed for gold. Sample descriptions are presented in Table I.

A fractional claim of wedge slope was staked to cover the property between Lost 370 and 372.

#### LOCATION, ACCESS, PHYSIOGRAPHY

The Golden Cache property is situated fourteen kilometres southwest of Lillooet, B.C. (Figures 1 and 2). Most of the claims lie on the north side of Cayoosh Creek between elevations 1700 and 5500 feet. Slopes range from extremely steep, locally on the south facing slopes above Cayoosh Creek, to moderate on the ridge on the north side of the claim group.

The property is accessible by good gravel road which passes on the south side of Cayoosh Creek, about a fifteen minute drive from Lillooet. A bridge across the creek near the legal corner post of the Gold Stripe claim provides access to the northern part of the claim group.

Slopes are covered with a light growth of Jack pine, Douglas fir and poplar.

ORMONT EXPLORATION LTD.  
GOLDEN CACHE PROPERTY  
LOCATION MAP

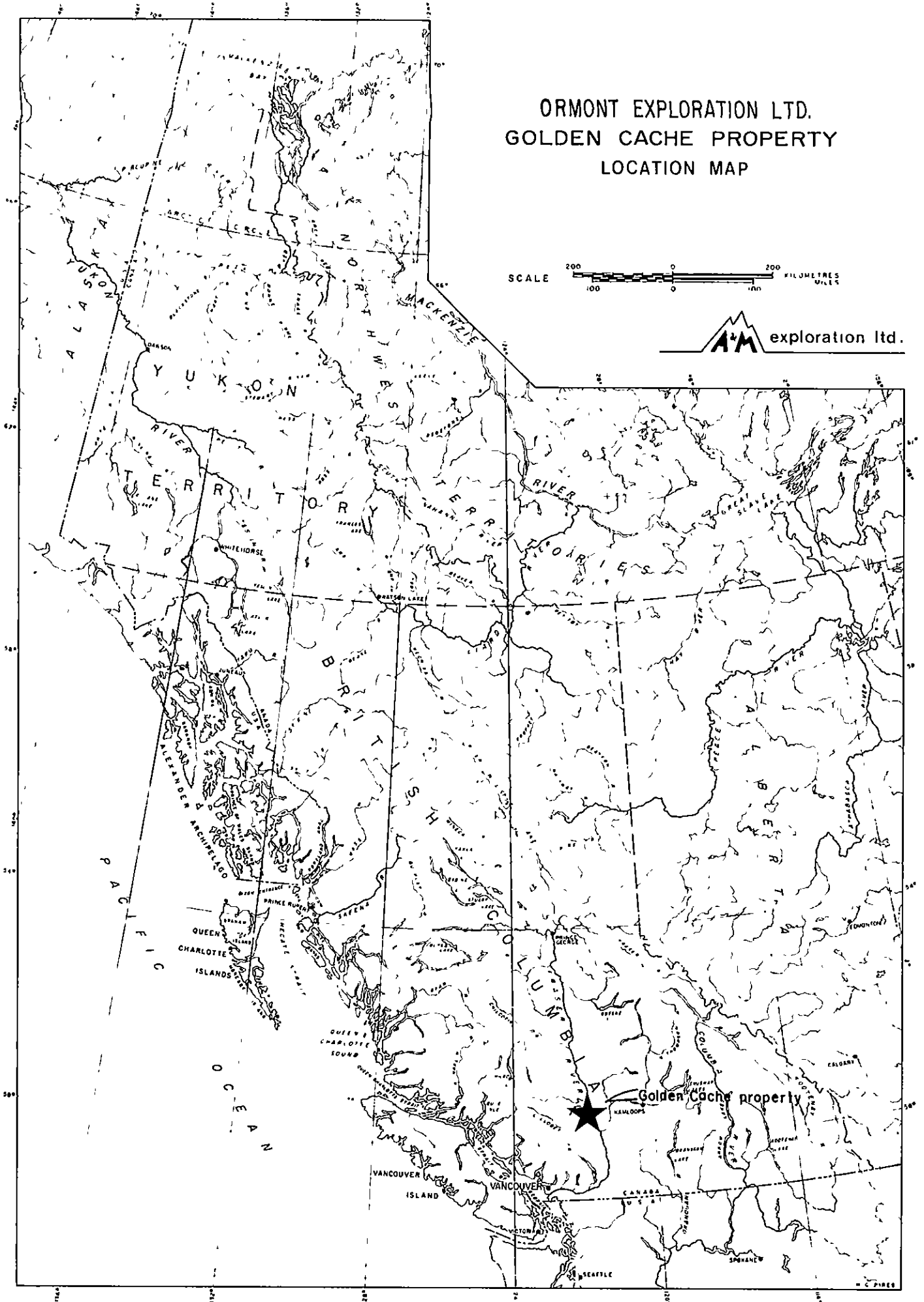
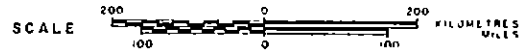
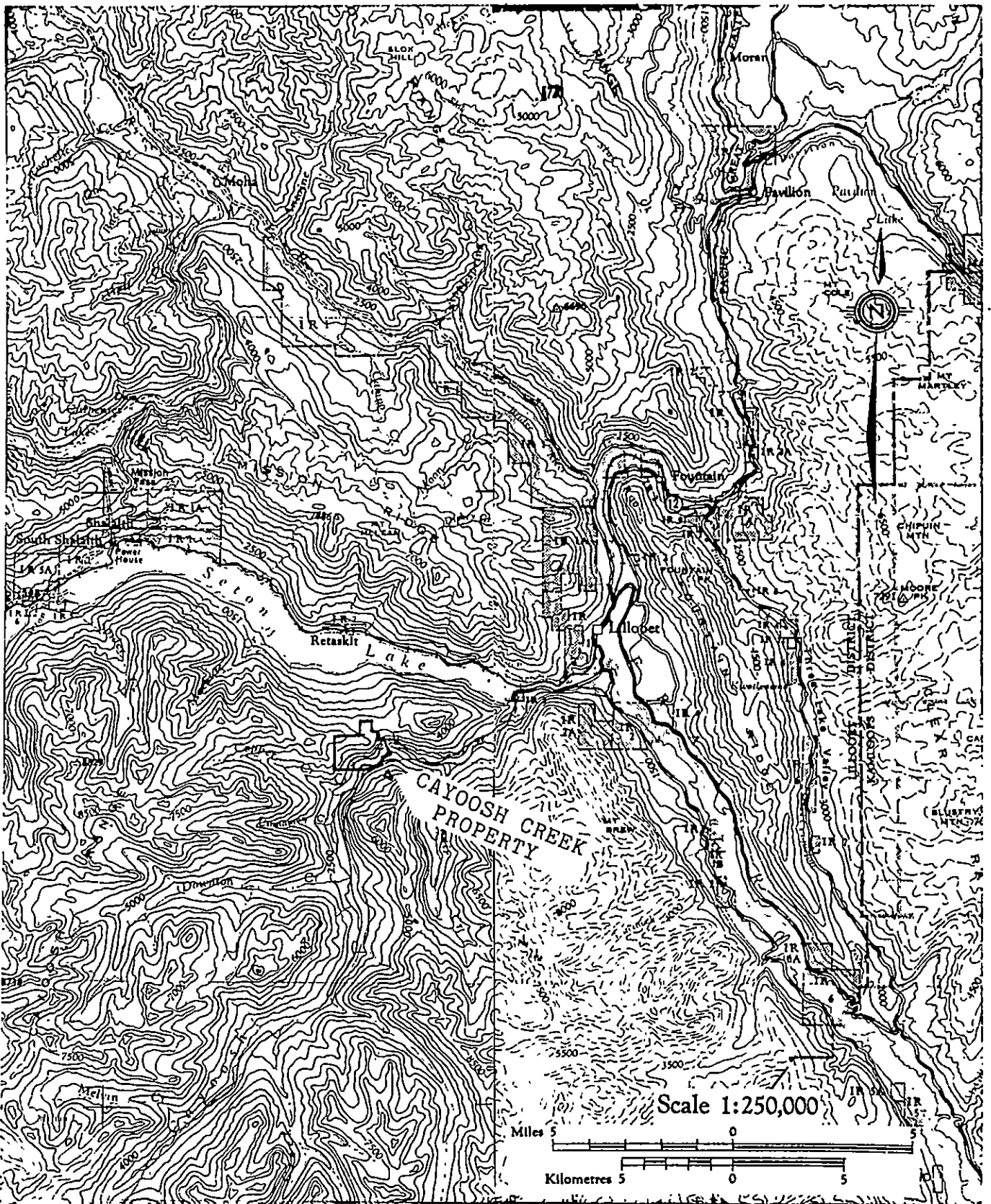


FIGURE - 1



ORMONT EXPLORATION LTD.

N.T.S. 92 I, J

**ACCESS MAP**  
CAYOOSH CREEK PROPERTY

Lillooet Mining District - British Columbia

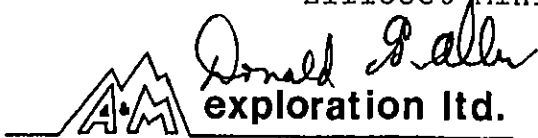


Figure 2



### CLAIM OWNERSHIP

The Golden Cache group of claims are held in the name of Ormont Exploration Ltd. Claim data are as follows

(Figure 3):

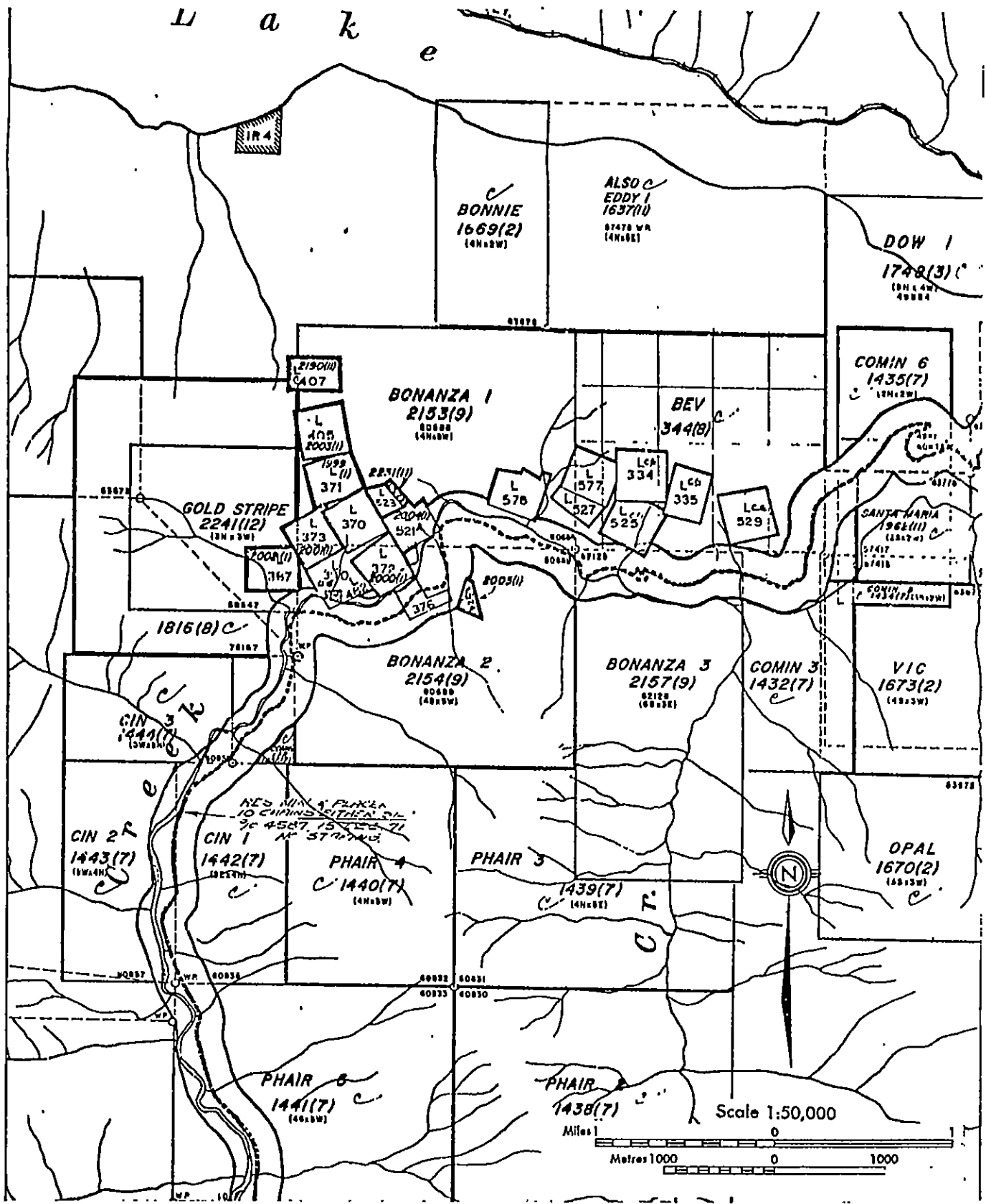
<u>Claim Name</u>	<u>Type</u>	<u>Lot No.</u>	<u>Rec. No.</u>	<u>Expiry Date*</u>
North Star	Rev. Crown Grant	371	1999	Jan. 25, 1987
Ruby	" " "	372	2000	" " "
Golden Stripe	" " "	373	2001	" " "
Excelsior	" " "	387	2002	" " "
Blue Pete	" " "	405	2003	" " "
Surprise	" " "	521	2004	" " "
Maude	" " "	524	2005	" " "
Golden Eagle	Crown Grant	370		
Mineral Point	" "	390		
Gold Stripe	M.G.S. (9 units)		2241	Dec. 22, 1986
Cayo Fr.	" (1 unit)		2660	Nov. 22, 1987

\*After applying work represented by this report.

### HISTORY

History of mining in the Cayoosh Creek area dates back to 1886 when placer gold was discovered and worked by Chinese miners. Mineral claims were first staked in 1887. The Golden Cache property, the only known producer in the area, was worked in 1896 and equipped with a 10 ton per day stamp mill. Production amounted to 2789 tonnes. Although grades

L a k e



N.T.S. 92 J/9E

ORMONT EXPLORATION LTD.  
**CLAIM MAP**  
 GOLDEN CACHE PROPERTY

Lillooet Mining Division - British Columbia

*Donald G. Orr*  
 exploration ltd.

were low, spectacular specimens of free gold were reported. Underground development was carried out on the Excelsior claim in 1897 on a quartz vein from which assays ranging from trace to \$177 per ton in gold are reported (1987 Ministry of Mines Ann. Rept., p. 556). Sporadic development was continued in the early 1900's and 1930's. Diamond drilling, totalling 1,015 feet in three holes, is reported to have been carried out on the Golden Cache in 1935 and 490 feet in two holes, presumably on the Excelsior, in 1947. Exact locations of holes and results are not known.

#### REGIONAL GEOLOGY

The Cayoosh Creek area is in the Pemberton map area (92 J, East Half), the geology of which has been described by Roddick and Hutchinson. The area lies off the east flank of the Coast Plutonic Complex. According to Roddick and Hutchinson, oldest rocks in the area are sedimentary rocks of the Bridge River Group, which are exposed in a broad northwest-trending antiform. This antiform is 50 kilometres wide and is bounded on the southwest by a series of granodiorite to quartz plutons, and on the northeast by the Yalakom fault.

## PROPERTY GEOLOGY

### Sedimentary rocks

The Golden Cache property is underlain mainly by metasedimentary rocks of the Bridge River Group of Middle Triassic and possibly older age (Figure 4). Regionally the group consists of thick sequence of thin bedded chert, cherty argillite and argillite, intercalated with altered basaltic flows and minor limestone that have been metamorphosed to pumpellyite-prehnite facies.

On the property, higher grade metamorphics were observed. The sedimentary rocks, phyllite and schist, were identified by their composition or degree of metamorphism. The original rocks were probably rhyolitic, basaltic, and andesitic volcanic rocks which have been converted to chloritic, chloritic-talc and graphitic schists.

The general strike on the property is northwesterly and dips northeast or southwest conforming to the local folding.

### Intrusive rocks

Extensive outcrops of quartz-feldspar porphyry occur along the west part of the property. Numerous dikes and sills of felsite and quartz porphyry are common in the north part. Presumably, they are offshoots of porphyritic granite occurring to the south of the Gold Stripe claim. They may also be

of regional extent in that they are found many kilometres to the north in the Lillooet area and to the south along upper Cayoosh Creek. The intrusive rocks are locally fractured and sheared.

#### MINERALIZATION

The mineralization found on the property is associated with quartz veins. The quartz veins are irregularly distributed and are conformable with schistosity. They are most abundant in the eastern part of the property where higher grade metamorphic rocks varying from chlorite to chlorite-talc schist are present. The three known showings (Golden Cache, Excelsior and Bonanza-Cache) occur in this type of host rock.

The quartz veins are lens-shaped and usually limited to a few centimetres wide by a few metres long. The veins usually consist of parallel veinlets mixed with the host rock in variable proportion. The quartz is milky white, locally coloured by iron oxide and locally contains disseminated pyrite and arsenopyrite. Visible gold has been reported but none was seen by the writer.

Some quartz veins were found close to intrusive-schist contact and the best assay returned 50 ppb (AT 66).

### Golden Cache Workings

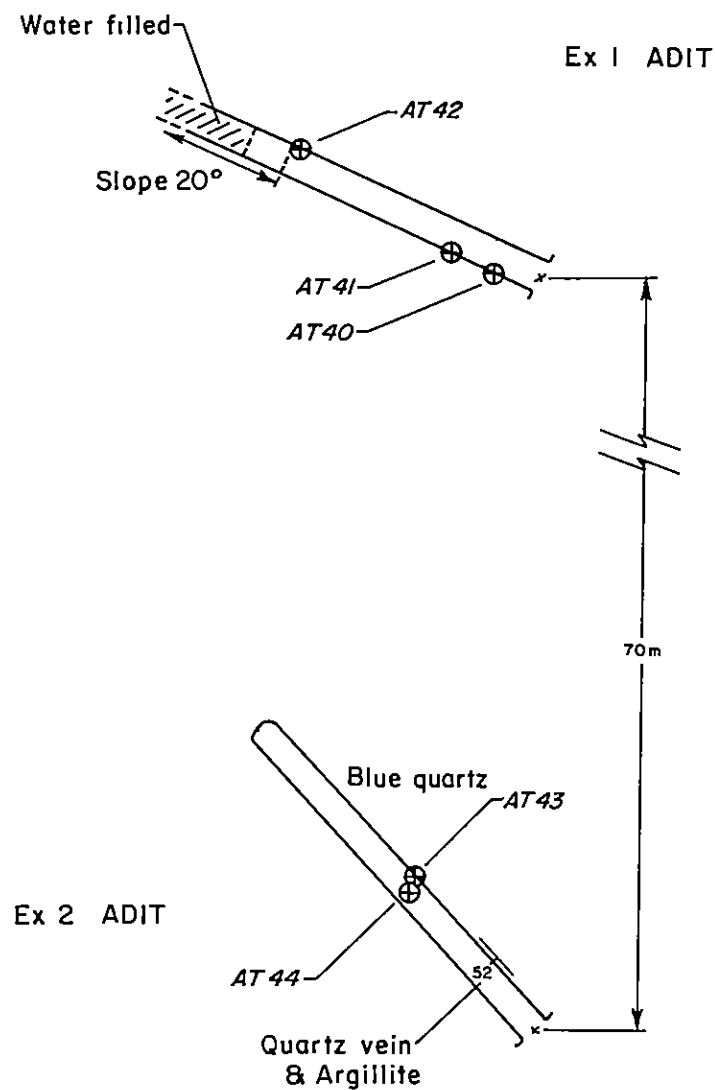
The Golden Cache workings consist of five adits driven into the face of a perpendicular cliff (Figure 6). The adits were sunk through a lens body of quartz being up to three metres in thickness and narrowing down along strike to narrow quartz stringers. The stringers can be followed for about 70 metres.

The main quartz body has a northwest general direction and dips  $17^{\circ}$  east. The first three adits are joined together and a stope was developed. The main body was mined out but a 60 cm vein still remains on the back.

The quartz material is iron-stained and usually barren. It locally contains minor amounts of disseminated pyrite and arsenopyrite. The host rock, chlorite-talc schist, shows at one location disseminated pyrite. Seven channel samples and one grab sample were collected and the assays found to range from 50 to 6900 ppb Au (0.21 oz./ton).

At the base of the cliff, 200 feet below the stope, a 52-metre long adit was driven in a chlorite schist. Very few quartz stringers are visible and no mineralization was observed. Three samples of quartz veins returned assays from 10 to 20 ppb.

About 100 metres southeast from the lower adit at the base of a cliff, a two-metre deep adit was sunk in well-folded chloritic schist. It contains numerous small quartz lenses and stringers along the schistosity. The quartz is barren and iron-stained. A channel sample shows only 10 ppb gold.



EXCELSIOR MINE



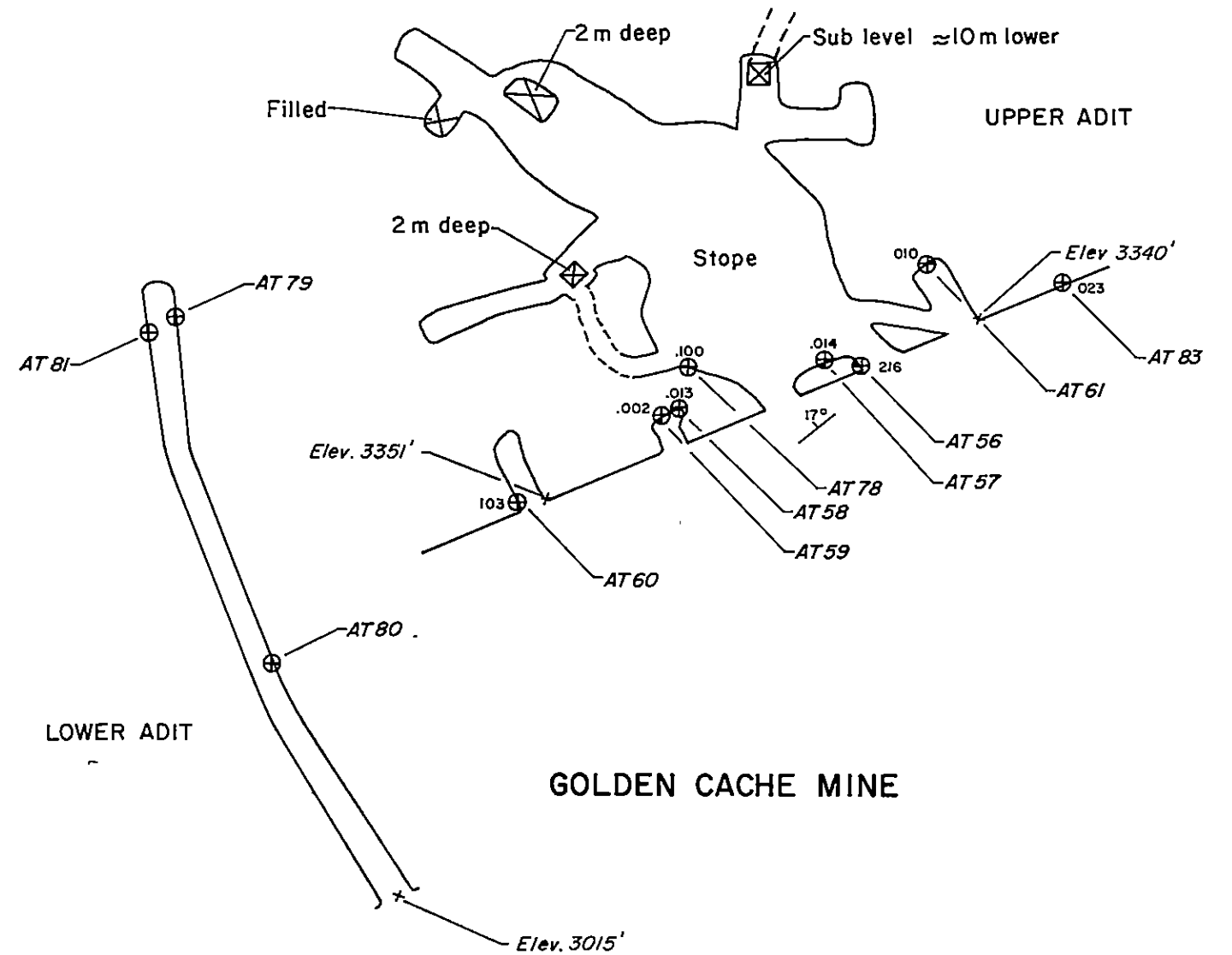
5 0 5m

SCALE 1 : 500

**LEGEND**

- Hole
- Rock sample site, sample number oz/ton Au

NOTE: Only gold values  $\geq .002$  oz/ton plotted.



GOLDEN CACHE MINE

ORMONT EXPLORATION LTD  
GOLDEN CACHE PROPERTY

**SKETCHMAP OF UNDERGROUND WORKINGS  
AND SAMPLE SITES**

*Donald G. Allen*  
**exploration ltd.**

Nov. 17, 1983

Figure 6

Table 1

<u>SAMPLE NO.</u>	<u>ROCK DESCRIPTION</u>	<u>Au ppb</u>
AT 1	Rhyolitic schist cut by very fine quartz veinlets.	
AT 2	Silicified gray-black rhyolitic schist.	
AT 3	Sheared silicified black rhyolitic schist. Malachite stain.	
AT 4	Quartz lens mineralized with 4-10% fine disseminated and globular pyrite. The host rock is a well sheared graphitic schist.	10
AT 5	Grayish-green diorite dike, 13 metres wide. 2% phlogopite. Iron stained on fractures.	
AT 6	Quartz-feldspar porphyry.	
AT 7	Felsite intrusion, oxidized on surface.	
AT 8	Rhyolitic phyllite.	
AT 9	Rhyolitic schist.	
AT 10	Yellow-white diorite sill.	
AT 11	Brown diorite, 1-3% fine disseminated pyrite.	10
AT 12	Quartz feldspar porphyry.	
AT 13	Green quartz feldspar porphyry.	
AT 14	Green quartz feldspar porphyry mineralized with 1% disseminated pyrite.	
AT 15	Quartz-feldspar porphyry.	
AT 16	Rhyolitic schist.	
AT 17	Silicified rhyolitic schist. Graphite development along shearing.	
AT 18	Blue quartz lens mineralized with very fine pyrite. 20 cm x 2-4 cm wide.	50
AT 19	Quartz veinlets sampled. Host rock is a rhyolitic schist. Numerous slip planes.	
AT 20	Blue quartz lens in a rhyolitic phyllite. 2-3% fine disseminated pyrite.	10
AT 21	Altered quartz feldspar porphyry. Composed of 30% quartz, 30% feldspar.	
AT 22	Quartz-feldspar porphyry.	
AT 23	Well sheared rhyolitic phyllite.	
AT 24	Andesitic to rhyolitic schist.	
AT 25	Greenish blue quartz porphyry, 35% quartz.	
AT 26	Quartz porphyry.	
AT 27	Quartz porphyry.	
AT 28	White felsite.	
AT 29	Andesitic schist.	
AT 30	Sheared and silicified rhyolitic schist.	
AT 31	Small lenses of massive pyrite found in quartz veinlets at the contact between a felsite intrusion and andesitic phyllite.	50
AT 32	Rhyolitic schist.	
AT 33	Sheared chloritic schist. Presence of quartz lenses.	
AT 34	Felsite dike, 3 metres high and 10 metres wide.	
AT 35	Andesitic schist.	



AT 36	Altered quartz porphyry.	
AT 37	Milky white quartz veins in chlorite schist. Veins range from 10 to 40 cm. wide. Sample taken 15 metres north of northeast Excelsior adit.	
AT 38	Grab sample of a quartz vein close to the adit.	
AT 39	Iron stained quartz vein, 5 metres northeast of adit EX:1	10
AT 40	Channel sample across 1.2 metres wide quartz vein, 3 metres into adit.	10
AT 41	Channel sample across 60 cm. wide quartz vein, 6 metres into adit.	10
AT 42	Channel sample across 1.3 metres wide quartz-veined chlorite schist - 50% quartz. Some disseminated pyrite.	10
AT 43	Channel sample across 60 cm. wide quartz-veined chlorite schist - 60% quartz, 13 metres into adit.	10
AT 44	Chip sample across 20 cm wide quartz vein from the ceiling, 13 metres into adit.	10
AT 45	Chlorite talc schist.	
AT 47	Quartz vein sample from a 1 metre x 50 cm. irregular quartz vein. Specks of granular pyrite seen.	10
AT 48	Large quartz-sericite boulder, 2 metres x 1.5 metres close to the old mill.	
AT 49	Chlorite schist and quartz lenses. Oxidized on surface. Pyrite in the seams.	
AT 50	Quartz sample from Golden Cache dump. Disseminated pyrite and arsenopyrite.	
AT 51	Felsite dike, 10 metres wide.	
AT 52	Altered felsite dike.	
AT 53	Felsite dike.	
AT 54	Felsite dike, 5 metres wide x 10 metres.	
AT 55	Float of iron-stained quartz material. Quartz lens and veinlet occur sporadically in the chlorite-talc schist.	
AT 56	Channel sample across 60 cm quartz vein near the portal.	6900
AT 57	Channel sample across 1.3 metres quartz vein.	450
AT 58	Channel sample across 1.2 metres quartz vein. White and blue quartz.	420
AT 59	Sample of blue quartz from same vein as AT 58 location.	50
AT 60	Channel sample across 1.1 metres, quartz veined chlorite schist. 40% quartz 1 metre into adit.	3300
AT 61	Channel sample across 1.0 metres, quartz veined chlorite schist - 30% quartz. At the end of adit quartz veinlets are 0.5-15 cm wide.	330
AT 63	Rhyolite schist.	
AT 64	Quartz porphyry dike. Outcrop over 5 x 10 metres. Quartz grains to 4 mm.	
AT 65	Fine felsic intrusion, 6 metres wide.	
AT 66	Small quartz veinlets ranging from 1-2 cm. over 1.5 metres wide.	30
AT 67	Rhyolitic schist, siliceous and graphitic.	
AT 68	Sheared quartz porphyry in contact with a rhyolitic schist. Contact dips 75° West. Graphite developed on slip plane.	
AT 69	Chip sample across 3 metres of quartz veined rhyolitic schist at the contact with quartz porphyry - 15% quartz.	10

AT 70	Basaltic schist. Altered on surface - gives white colouration.	
AT 71A	Small 5 cm quartz veinlet among basaltic schist. Presence of arsenopyrite along seams. The quartz veinlets occur over a width of 10 metres. Chip sample includes vein material only.	10
AT 71B	Grab sample of quartz veinlet mineralized with arsenopyrite.	20
AT 72	50 cm quartz veins with arsenopyrite along seams. 15% basaltic schist,	10
AT 73	Chip sample across 1 meter of a quartz lens with a length of 6 m x 40 cm wide average.	10
AT 74	Chip sample of irregular 50 cm quartz vein.	10
AT 75	Quartz lens 50 cm wide.	
AT 76	Chip sample of a 1.5 m irregular quartz vein.	10
AT 77	Slightly silicified chloritic schist.	
AT 78	Channel sample across 1.08 m of a quartz-talc schist. The sample was taken along the wall, 2 metres above the ground. Contains disseminated crystallized pyrite in the quartz and in the schist.	3200
AT 79	1.26 metres wide chip sample across quartz-veined chlorite schist - 20% quartz.	20
AT 80	1.2 meter wide chip sample across quartz-veined chlorite schist - 25% quartz.	10
AT 81	Siliceous concretions running through the	10
AT 83	80 cm. chip sample across quartz-veined chlorite schists - 65% quartz.	720
AT 84	Rhyolitic schist well folded.	
AT 85	Feldspar porphyry - 15% quartz.	
AT 86	Cherty-feldspar porphyry.	
AT 89	Graphitic schist, well folded.	
AT 90A	Quartz porphyry. Maximum quartz size is 2 cm.	
AT 90B	Chloritic schist with 1-2% disseminated pyrite. Malachite alteration.	100
AT 92	Chip sample of a well folded chlorite schist containing 10-15% quartz stringers (1-5 cm), 1 meter into adit.	10
AT 97	Chip sample across 90 cm of quartz-veined chlorite schist - 50% quartz. Quartz veinlets vary from 2-15 cm. Disseminated pyrite.	10
AT 98	Chlorite schist well folded. Numerous quartz veinlet among the rock.	10
AT 99	Chip sample across 0.5 metres of quartz-veined chlorite schist - 30% quartz. The quartz veins vary from 5-50 cm.	10
AT 100	Chip sample across 1.5 metres of an irregular quartz veined chlorite schist - 60% quartz.	20
AT 101	Chip sample across 50 cm. of a quartz vein.	10
AT 102	Channel sample across 1 meter wide quartz vein, one meter into the adit.	2180
AT 103	Quartz vein materials from dump.	1260
AT 104	Host rock - chloritic schist.	
AT 105	Channel sample across 60 cm wide quartz vein.	50
AT 106	Channel sample across 40 cm wide quartz vein. Some disseminated pyrite.	10
AT 107	Silicified talc schist channel sample across a one metre shear zone between diorite and chlorite schist.	10

AT 108	Green diorite - 17% disseminated pyrite.	
AT 109	Green diorite talc alteration.	10
AT 110	Channel sample across 1.6 meters of quartz-veined chlorite schist - 40% quartz.	1200

### Excelsior Workings

The Excelsior showing occurs in chlorite to chlorite-talc schist. Quartz veins and stringers, however, seen through the whole formation are concentrated in numbers and thicknesses at the portal of the north adit.

The north adit runs horizontal for the first 19 metres then dips  $20^{\circ}$  or more (Figure 6). The extent of the underground development could not be determined due to flooding. The adit is reported to be 50 metres in total length. Quartz veins and stringers are lens shaped and contain trace amounts of pyrite. The thicknesses of the veins are up to 1.5 metres, being conformable with the schistosity of the host rock in accordance with the folding. The general trend of the formation is to the northwest. The west wall of the adit shows, at the portal, a flat lying 40 to 120 cm thick lens (dipping horizontally). Two channel samples of the vein returned 10 ppb. Other veins seen on the roof dip  $30^{\circ}$  south.

A second adit 70 metres south from the preceding is 27 metres long. It exposes the same host rock but only scattered irregular quartz veins are visible. Blue quartz and iron stains were observed but no sulphide. No gold values were obtained from two collected samples.

### Maude Workings

The property formerly named Bonanza-Cache is located on

the south side of Cayoosh Creek and consist of one claim staked over a ridge.

The rock is well exposed and is composed of chlorite schist and diorite. The schist shows a well developed northwesterly-trending schistosity, and numerous quartz veins and lenses occur conformable to schistosity.

Old underground workings are present at the top of the ridge about 300 metres above the road. A 15-metre shaft joined to a five-metre long adit, five metres below the collar, connect to the surface. The shaft was sunk on the widest section of a quartz lens dipping  $80^{\circ}$  southwest on surface but changing to  $30^{\circ}$  west in the adit due to local folding.

The vein strikes northwesterly and can be traced on surface for 25 metres where it pinches out to a few centimetres. The host rock is a chlorite schist. The vein material consists of milky white to yellowish quartz mineralized with rare disseminated pyrite. A one-metre channel sample of the vein in the adit on a grab sample from the dump assayed respectively 2180 and 1260 ppb Au (0.065 and 0.039 oz/ton).

A short adit, two metres long, trending west, lies 100 metres lower in elevation from the shaft. The adit exposes a 1.6 metre wide quartz-veined schist (40% quartz).

GEOCHEMICAL SURVEY

Geochemical soil and rock sampling was undertaken to cover most of the accessible parts of the Golden Cache property. Soil material consisted mainly of talus fines taken at depths of up to 25 centimetres (B Horizon). Soil was placed in paper sample bags and shipped to Rossbacher Laboratory Ltd. for gold analyses by standard atomic absorption techniques. Rock samples were taken from fresh outcrops along roads and from old pits and underground workings and also analyzed for gold by atomic absorption methods.

Sample sites are plotted on Figure 5 and all gold values above 20 parts per billion are plotted.

The geochemical sampling program determined the presence of three significant anomalies. They are all located in the vicinity of old workings.

The Excelsior anomaly trends north-south and lies downhill from the two adits. The source of the anomaly could be the quartz veins uphill from the sample. At 100 metres downhill and perpendicular to the ridge, a weaker trend is observed. It might represent the downhill dispersion of the material dumped from the adits. But gold mineralized veins could be present and more prospecting and geochemical sampling is warranted.

A second anomaly was found on the hill southeast of Golden Cache adits. The anomalous area is about 200 metres

in diameter and will merit more prospecting.

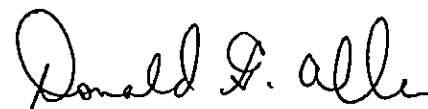
Along the steep face of this hill, at about 100 feet above the Cayoosh Creek, a series of flat lying quartz veins were observed. The thickness of the veins ranges from about 60 to 100 centimetres and extend for 100 to 200 metres. Access for sampling is impossible.

A large geochemical anomaly was found on the Maude claim. Very high values, up to 860 ppb, were obtained and more detailed prospecting and soil sampling is also warranted.

Rock geochemical anomalies are mainly restricted to the old workings. However, a chlorite schist southwest of Golden Cache mineralized with 1-2% pyrite and malachite stain assayed 100 ppb. The sample is close to sample site AS 06 (180 ppb) which is about 30 metres downhill from an unaccessible quartz vein observed on a cliff face.



Lionel Tanguay

  
Donald G. Allen

## REFERENCES

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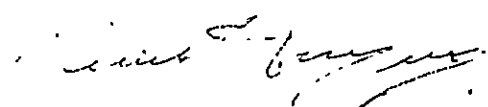


CERTIFICATE

I, Lionel Tanguay, certify that:

1. I am a Consulting Geologist, resident at #302 - 4926 48th Avenue, Ladner, British Columbia.
2. I am a graduate of Laval University with a degree in Geology (B.A.Sc., 1978).
3. I have been practising my profession since 1978.
4. I am a member of the Quebec Geologists Association.
5. This report is based mainly on information listed under References and fieldwork carried out on the property during the period of October 22 to October 31, 1983.
6. I hold no interest, nor do I expect to receive any, in Ormont Exploration Ltd.

Ladner, B. C.

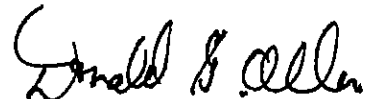
  
Lionel Tanguay  
Geologist

CERTIFICATE

I, Donald G. Allen certify that:

1. I am a Consulting Geological Engineer, resident at 4570 Hoskins Road, North Vancouver, B.C.
2. I am a graduate of the University of British Columbia with degrees in Geological Engineering. (B.A.Sc., 1964; M.A.Sc., 1966)
3. I have been practising my profession since 1964.
4. I am a member in good standing of the Association of Professional Engineers of British Columbia.
5. This report is based on an examination of the property carried out personally on May 14, 1981 and April 29, 1983 and on information from government reports.
6. I hold no interest, nor do I expect to receive any, in the Golden Cache group of claims or in Ormont Exploration Ltd.
7. I consent to the use of this report in a Statement of Material Facts or in a Prospectus by Ormont Exploration Ltd.

North Vancouver, B.C.  
May 14, 1983



Donald G. Allen,  
P. Eng. (B.C.)

APPENDIX I  
ANALYTICAL RESULTS

# Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

## CERTIFICATE OF ANALYSIS

**A & M EXPLORATION LTD.**

TO:

1775 HOCKING ROAD

CERTIFICATE NO. **83539-1**

INVOICE NO. **4006**

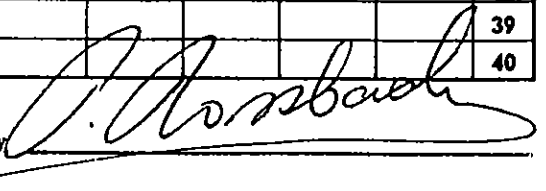
DATE ANALYSED **83/11/09**

PROJECT **83-200**

No.	Sample	pH										No.
				<sup>ppb</sup> Au								
01	AT-40			10								01
02	41			10								02
03	42			10								03
04	43			10								04
05	44			10								05
06	56			6900	0.220% dz/y.							06
07	57			450								07
08	58			420								08
09	59			50								09
10	AT-60			3300								10
11	61			330								11
12	66			30								12
13	69			10								13
14	71A			10								14
15	71B			20								15
16	72			10								16
17	73			10								17
18	74			10								18
19	76			10								19
20	AT-78			3200								20
21	79			20								21
22	80			10								22
23	81			10								23
24	83			720								24
25	90B			100								25
26	92			10								26
27	97			10								27
28	98			10								28
29	100			20								29
30	AT-101			10								30
31	102			2180								31
32	103			1260								32
33	105			50								33
34	106			10								34
35	107			10								35
36	109			10								36
37	AT-110			1200								37
38												38
39												39
40												40

VALUES IN PPM, UNLESS NOTED OTHERWISE.

Certified by



# Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

## CERTIFICATE OF ANALYSIS

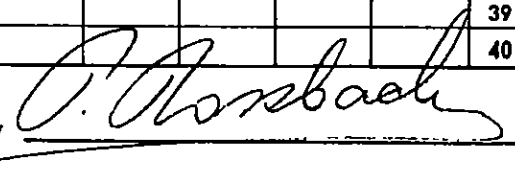
TO: **A & M EXPLORATION LTD.**

CERTIFICATE NO. **83542-1**  
INVOICE NO. **4006**  
DATE ANALYSED **83/11/09**  
PROJECT **200**

No.	Sample	pH		ppb Au							No.
01	TS - 01			10							01
02	02			10							02
03	03			10							03
04	04			10							04
05	05			10							05
06	06			10							06
07	07			10							07
08	08			10							08
09	09			10							09
10	TS - 10			10							10
11	11			10							11
12	12			10							12
13	13			10							13
14	14			10							14
15	15			10							15
16	16			10							16
17	17			10							17
18	18			10							18
19	19			10							19
20	TS - 20			10							20
21	21			10							21
22	22			10							22
23	23			10							23
24	24			10							24
25	25			10							25
26	26			10							26
27	27			10							27
28	28			10							28
29	29			10							29
30	TS - 30			10							30
31	31			10							31
32	32A			10							32
33	32B			10							33
34	33			10							34
35	34			10							35
36	35			10							36
37	36			10							37
38	37			10							38
39	TS - 38			10							39
40											40

VALUES IN PPM, UNLESS NOTED OTHERWISE.

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# Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

## CERTIFICATE OF ANALYSIS

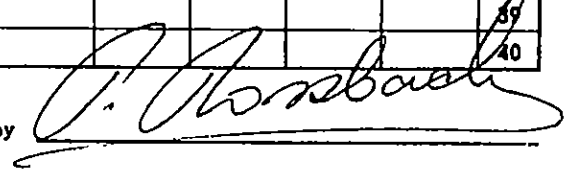
CERTIFICATE NO. 83542-2  
INVOICE NO. 4006  
DATE ANALYSED 83/11/08  
PROJECT 200

TO: **A & M EXPLORATION LTD.**

No.	Sample	pH											No.
					ppb								
					Au								
01	TS - 39				10								01
02	40				10								02
03	41				10								03
04	42				10								04
05	43				10								05
06	44				10								06
07	45				10								07
08	46				10								08
09	47				10								09
10	TS - 48				10								10
11	49				10								11
12	50				10								12
13	51				10								13
14	52				10								14
15	53				10								15
16	54				10								16
17	55				10								17
18	56				10								18
19	57				10								19
20	TS - 58				10								20
21	59				10								21
22	60				10								22
23	61				30								23
24	62				10								24
25	63				10								25
26	64				10								26
27	65				10								27
28	66				10								28
29	67				10								29
30	TS - 68				10								30
31	69				20								31
32	70				20								32
33	71				10								33
34	72				10								34
35	73				10								35
36	74				10								36
37	75				10								37
38	76				10								38
39	TS - 77				10								39
40													40

VALUES IN PPM, UNLESS NOTED OTHERWISE.

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# Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

## CERTIFICATE OF ANALYSIS

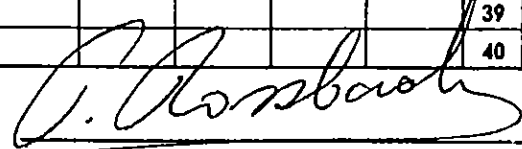
TO: **A & M EXPLORATION LTD**

CERTIFICATE NO. **83542-3**  
INVOICE NO. **4006**  
DATE ANALYSED **83/11/08**  
PROJECT **200**

No.	Sample	pH	ppb Au										No.
01	TS- 78		10										01
02	79		10										02
03	80		10										03
04	81		10										04
05	82		10										05
06	83		10										06
07	84		20										07
08	85		10										08
09	86		170										09
10	TS- 87		20										10
11	88		50										11
12	89		30										12
13	90		10										13
14	91		10										14
15	92		10										15
16	93		10										16
17	94		10										17
18	95		30										18
19	96		10										19
20	TS- 97		20										20
21	98		10										21
22	99		10										22
23	100		50										23
24	101		40										24
25	102		10										25
26	103		20										26
27	104		20										27
28	105		20										28
29	106		40										29
30	TS- 107		10										30
31	108		30										31
32	109		10										32
33	110		10										33
34	111		20										34
35	112		20										35
36	113		10										36
37	114		30										37
38	115		10										38
39	TS- 116		10										39
40													40

VALUES IN PPM, UNLESS NOTED OTHERWISE.

Certified by







# Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 83542-5  
INVOICE NO. 4006  
DATE ANALYSED 83/11/04  
PROJECT 200

TO: A & M EXPLORATION LTD.

-40  
MESH

No.	Sample	pH	Mo	Cu	PPB Au							No.
01	20055 235				10							01
02	236				10							02
03	237				10							03
04	238				10							04
05	239				10							05
06	240				10							06
07	241				10							07
08	242				10							08
09	243				10							09
10	20055 244				10							10
11	245				10							11
12	246				10							12
13	247				10							13
14	248				10							14
15	249				10							15
16	250				10							16
17	251				10							17
18	252				50							18
19	253				10							19
20	20055 254				10							20
21	255				10							21
22	256				10							22
23	257				10							23
24	258				10							24
25	259				10							25
26	260				10							26
27	261				10							27
28	262				10							28
29	263				10							29
30	20055 264				10							30
31	265				10							31
32	266				10							32
33	267				10							33
34	268				10							34
35	269				10							35
36	270				10							36
37	271				10							37
38	272				10							38
39	20055 273				10							39
40												40

VALUES IN PPM, UNLESS NOTED OTHERWISE.

Certified by

*P. Kossbacher*

# Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

## CERTIFICATE OF ANALYSIS

BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

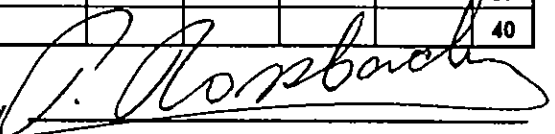
CERTIFICATE NO. 83542-6  
INVOICE NO. 4006  
DATE ANALYSED 83/11/05  
PROJECT 200

TO: **A & M EXPLORATION LTD.**

No.	Sample	pH											No.
					100								
					Au								
01	260-SS-276				10								01
02	277				10								02
03	278				10								03
04	279				10								04
05	280				10								05
06	281				10								06
07	282				10								07
08	283				10								08
09	284				10								09
10	200-SS-285				10								10
11	286				10								11
12	287				10								12
13	288				10								13
14	289				10								14
15	290				10								15
16	291				10								16
17	292				10								17
18	293				10								18
19	294				10								19
20	200-SS-295				10								20
21	296				10								21
22	297				10								22
23	298				10								23
24	299				10								24
25	300				10								25
26	301				10								26
27	302				10								27
28	303				10								28
29	304				10								29
30	200-SS-305				10								30
31	306				10								31
32	307				10								32
33	308				10								33
34	309				10								34
35	310				10								35
36	311				10								36
37	312				10								37
38	313				10								38
39	200-SS 314				10								39
40													40

VALUES IN PPM, UNLESS NOTED OTHERWISE.

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# Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

## CERTIFICATE OF ANALYSIS

BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

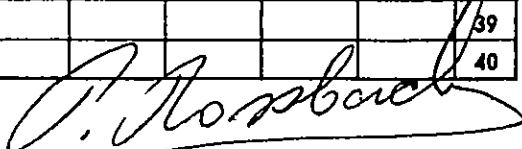
CERTIFICATE NO. **83542-7**  
INVOICE NO. **4006**  
DATE ANALYSED **83/11/05**  
PROJECT **200**

TO: **A & M EXPLORATION LTD.**

No.	Sample	pH			PPM Au						No.
01	200-SS-315				10						01
02	316				10						02
03	317				10						03
04	318				10						04
05	319				10						05
06	320				10						06
07	321				10						07
08	322				10						08
09	323				10						09
10	200-SS-324				10						10
11	325				10						11
12	326				10						12
13	327				10						13
14	328				10						14
15	329				70						15
16	330				10						16
17	331				10						17
18	332				10						18
19	333				10						19
20	200-SS-334				130						20
21	335				10						21
22	336				10						22
23	337				10						23
24	338				30						24
25	339				10						25
26	340				10						26
27	341				30						27
28	342				20						28
29	343				250						29
30	200-SS-344				10						30
31	345				10						31
32	346				10						32
33	347				10						33
34	348				10						34
35	349				10						35
36	350				10						36
37	351				10						37
38	352				10						38
39	200SS 353				10						39
40											40

VALUES IN PPM, UNLESS NOTED OTHERWISE.

Certified by







APPENDIX II  
AFFIDAVIT OF EXPENSES

AFFIDAVIT OF EXPENSES

This will certify that geochemcial surveys and geological mapping were carried out during the period October 22 to 31, 1983, on the Cayoosh Creek property of Ormont Exploration Ltd., in the Lillooet Mining Division, British Columbia, to the value of the following:

MOBILIZATION AND FIELDWORK

Salaries

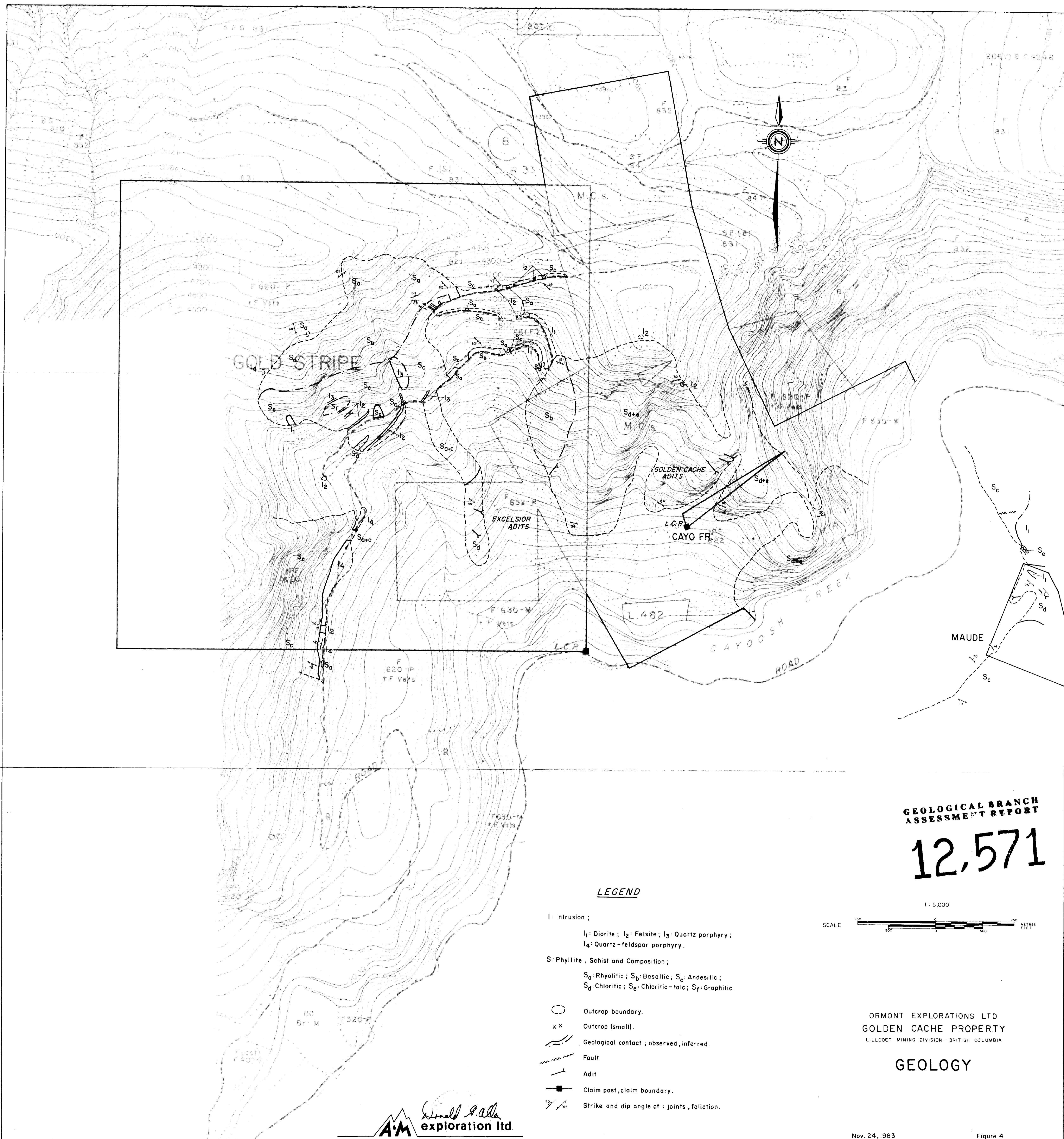
L. Tanguay	12 days @ \$200	\$ 2,400.00
S. Travis	12 days @ \$100	1,200.00
J. Travis	12 days @ \$100	1,200.00
Room and board		1,425.25
Vehicle rental and expenses		556.50
Geochemical analyses		1,450.35
Telephone		16.25
	subtotal	<u>\$ 8,248.35</u>

REPORT PREPARATION AND DRAUGHTING

Salaries

L. Tanguay	4 days @ \$200	\$ 800.00
S. Travis	13.4 days @ \$100	1,340.00
D.G. Allen	.5 days @ \$350	175.00
Maps, photocopying		120.20
Typing, compilation	16 hours @ \$15	240.00
	subtotal	<u>\$ 2,675.20</u>
	TOTAL	\$10,923.55

*Donald G. Allen*



GOLD STRIPE

GOLDEN CACHE ADITS

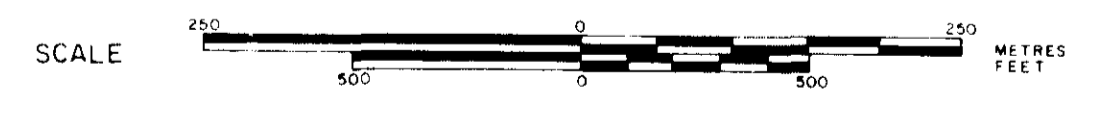
EXCELSIOR ADITS

CAYO FR

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,571

1:5,000



**LEGEND**

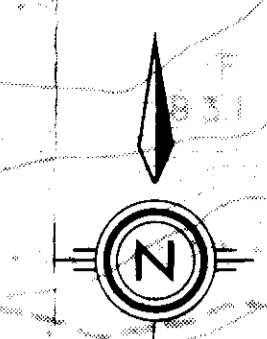
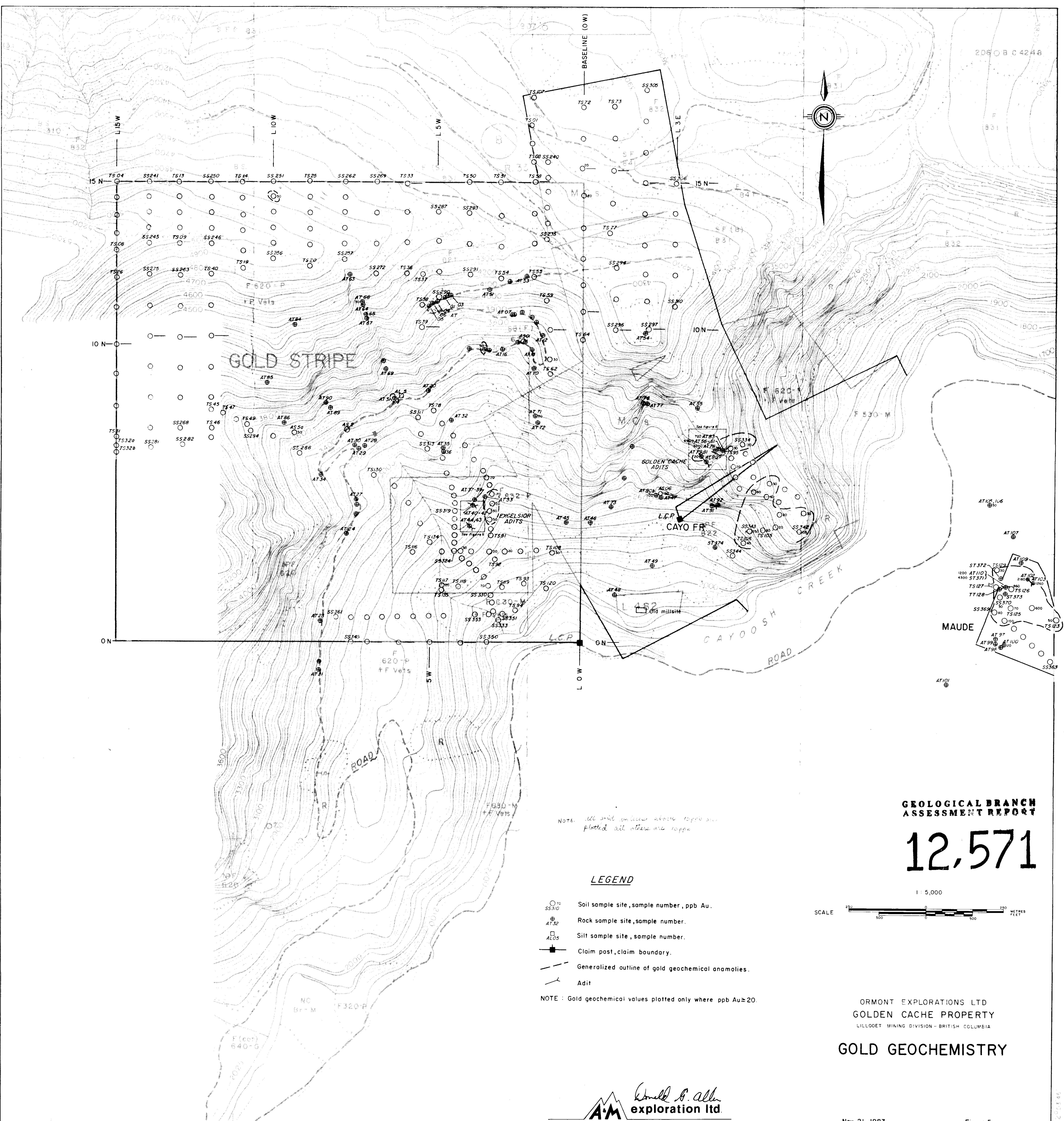
- I: Intrusion ;
  - I<sub>1</sub>: Diorite ; I<sub>2</sub>: Felsite ; I<sub>3</sub>: Quartz porphyry ;
  - I<sub>4</sub>: Quartz-feldspar porphyry .
- S: Phyllite , Schist and Composition ;
  - S<sub>0</sub>: Rhyolitic ; S<sub>1</sub>: Basaltic ; S<sub>2</sub>: Andesitic ;
  - S<sub>3</sub>: Chloritic ; S<sub>4</sub>: Chloritic-talc ; S<sub>5</sub>: Graphitic .
- Outcrop boundary .
- Outcrop (small) .
- Geological contact ; observed, inferred .
- Fault
- Adit
- Claim post, claim boundary .
- Strike and dip angle of : joints , foliation .

ORMONT EXPLORATIONS LTD  
GOLDEN CACHE PROPERTY  
LILLOET MINING DIVISION - BRITISH COLUMBIA

**GEOLOGY**







**GOLD STRIPE**

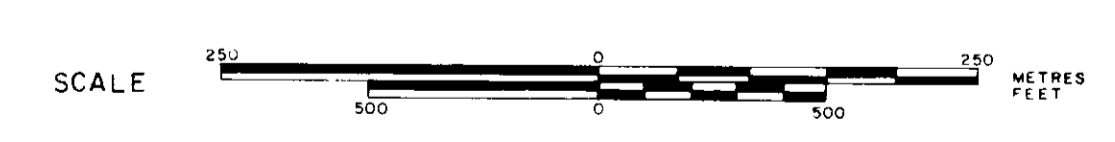
**CAYO FR**

**CAYOOSH CREEK**  
**ROAD**

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**12,571**

1 : 5,000



NOTE: All soil values above 10ppb are plotted all others are 10ppb

**LEGEND**

- <sup>70</sup>  
SS310 Soil sample site, sample number, ppb Au.
- ⊕ AT32 Rock sample site, sample number.
- AL05 Silt sample site, sample number.
- Claim post, claim boundary.
- - - Generalized outline of gold geochemical anomalies.
- Adit

NOTE : Gold geochemical values plotted only where ppb Au ≥ 20.

ORMONT EXPLORATIONS LTD  
GOLDEN CACHE PROPERTY  
LILLOOET MINING DIVISION - BRITISH COLUMBIA

**GOLD GEOCHEMISTRY**

