

OSPREY MINING & EXPLORATION LTD.

ASSESSMENT WORK REPORT FOR 1984

CLAIMS INCLUDED--Hawk 1-4

Vancouver Mining Division

NTS 92G-14W

49°56'N; 123°24'W

OPERATOR: Osprey Mining & Exploration Ltd.  
6446 Nelson Avenue  
Burnaby, B.C.  
V5H 3J5

OWNER: Slim's Exploration & Mining Ltd.  
2055 Como Lake Avenue  
Coquitlam, B.C.  
V3J 3R4

AUTHORS: Walter Babkirk, Qualified Prospector  
Joseph A. Chamberlain, Ph.D., P.Eng.  
Stephen Colp, Mining Technologist

DATE: November 1984

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,278**

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## INTRODUCTION

### ASHLU GROUP

The Ashlu Group is located in the Vancouver Mining Division on Claim Sheet 92G-14W, about 49°56' latitude and 123°24' longitude, 8 miles up Ashlu Creek from its junction with the Squamish River (Figs. 1 and 2).

The property is accessible via a highway up the Squamish River and an 8 mile logging road up Ashlu Creek, for a total distance of about 28 miles from Squamish.

Owner of the claims that comprise the Ashlu Group are:

|                                    |               |         |
|------------------------------------|---------------|---------|
| SLIM'S EXPLORATION AND MINING LTD. | HAWK 1 - 1524 | UNIT 6  |
|                                    | HAWK 2 - 1543 | UNIT 12 |
|                                    | HAWK 3 - 1578 | UNIT 12 |
|                                    | HAWK 4 - 1579 | UNIT 8  |

The Ashlu Group of mineral claims consists of 38 contiguous units.

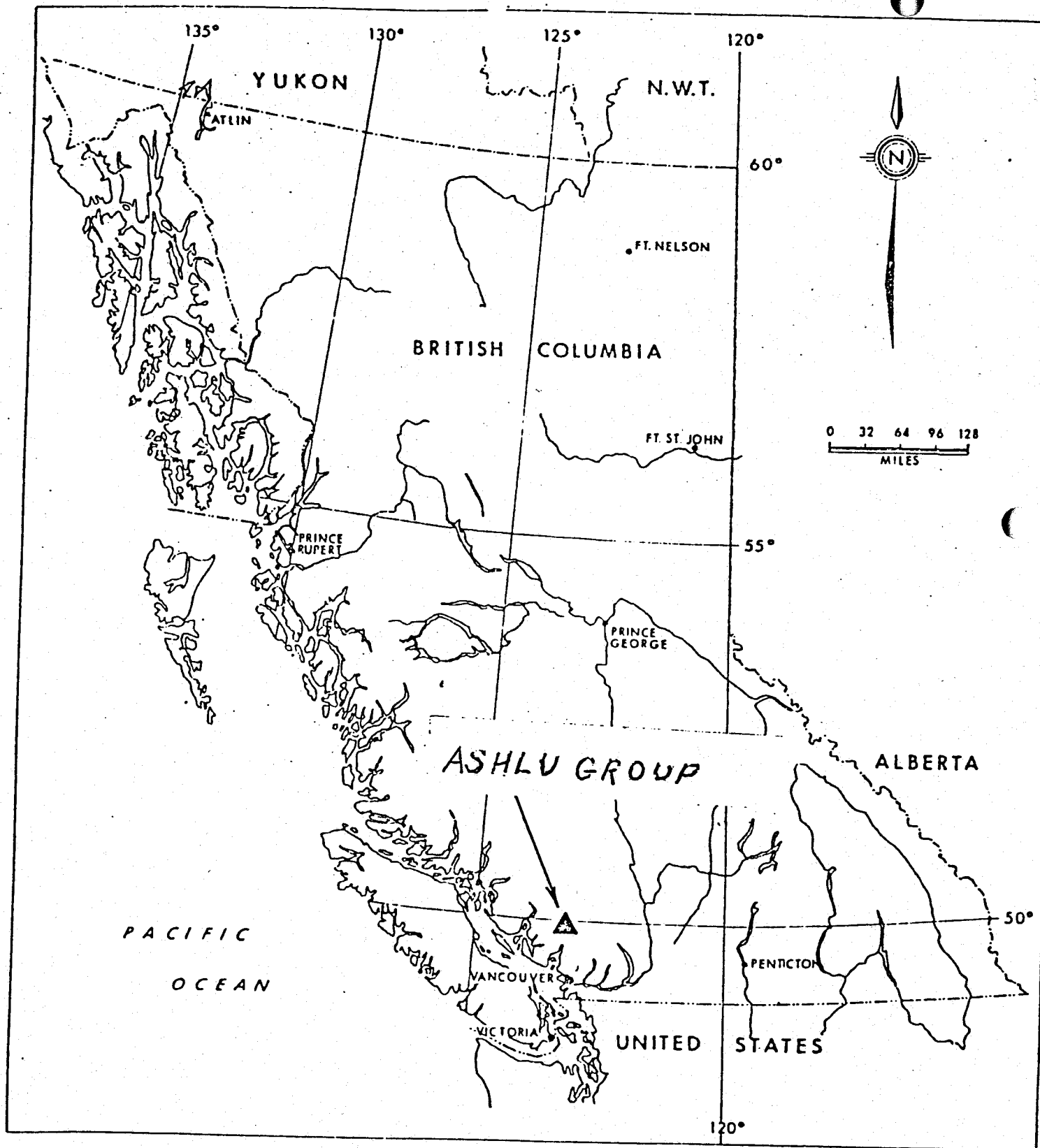
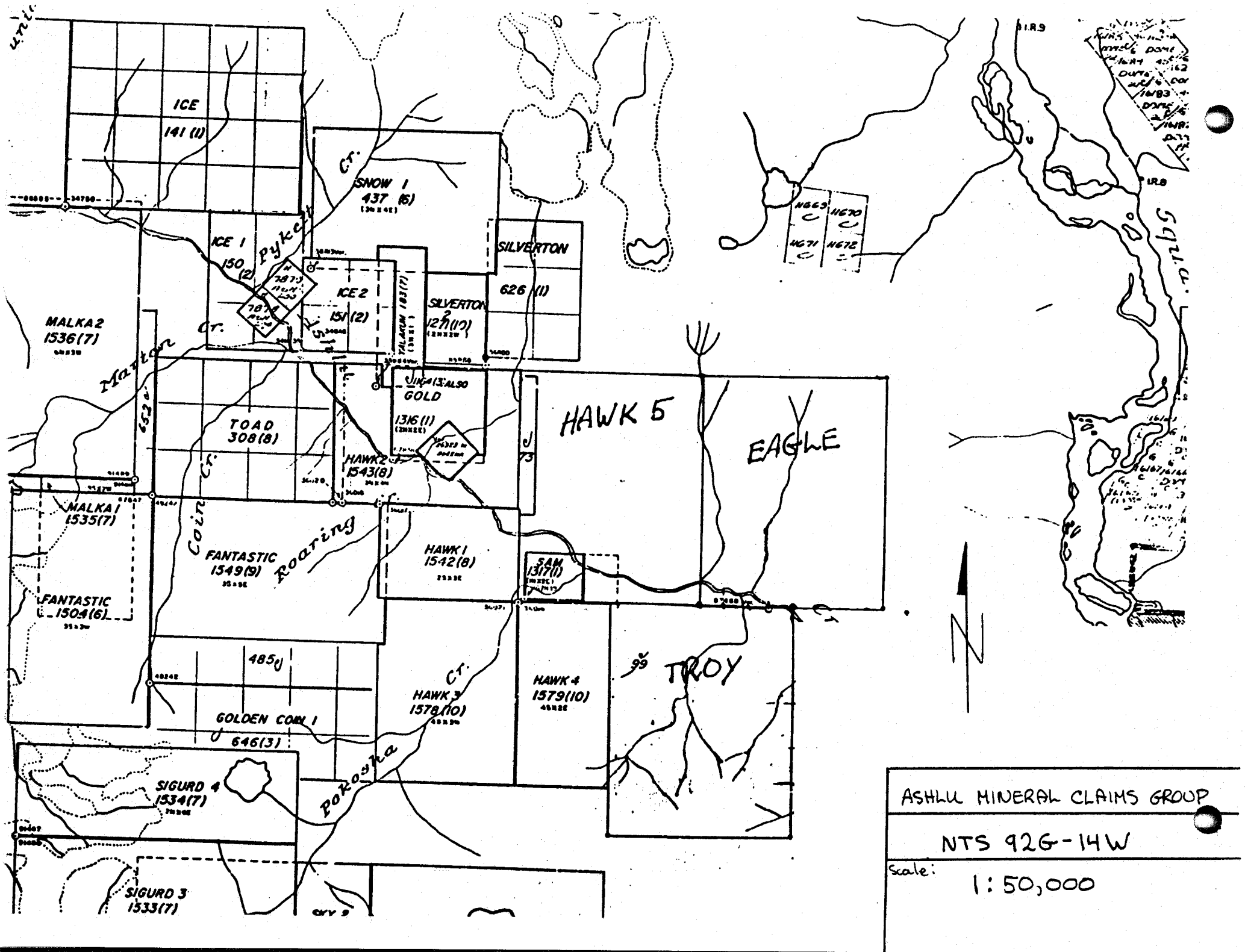


FIG. No. 1

REGIONAL LOCATION MAP

ASHLU GROUP  
BRITISH COLUMBIA



ASHLU MINERAL CLAIMS GROUP

NTS 926-14W

Scale: 1:50,000

## HISTORY

The "Gold Coin" group of mineral claims was staked in 1923 by Mr. Fred Pykett and Associates. They had prospected the area for several seasons prior to discovering a well mineralized, gold-quartz vein exposed in the steep gorge of Roaring Creek, a small tributary of Ashlu Creek.

During the next few years, development work consisted of driving a 75 foot drift along the quartz vein at a point some hundred feet plus lower than the outcrop.

In 1934, the property was bonded to the Ashlu Gold Mining Syndicate for further development. By this time, the main adit level had advanced 390 feet with several raises to the surface outcrop and one deep winze reported to be 109 feet down along the vein as of November 1935.

In the period 1932 - 1939, ore mined amounted to 15,047 tons and yielded 6,396 oz. of gold, 7,154 oz. silver and 66,187 lbs. copper. The mine was closed in the fall of 1939 and was not reactivated after the Second World War.

Presently, the mine is owned by Slim's Mining & Exploration Ltd. and is operated by Osprey Mining & Exploration Ltd. The mine is managed by Walter (Slim) Babkirk.

## GEOLOGY

### Regional:

Geological survey of Canada map 42-1963 presents the most recent data compiled regionally. The area is part of the Coast Crystalline Complex, composed of extensive Cretaceous or earlier granodiorite intrusives intertwined with metamorphic rocks as well as unmetamorphosed volcanics and sediments. In some places, these rocks are overlain or cut by Tertiary or later volcanics of various composition. Some granitic rocks also have been determined as belonging to this more recent period.

Granodiorites occupy the largest portion of the Squamish-Ashlu area.

The area in the Ashlu basin between Pokosho and Pykett Creeks contains several copper and gold showings centered on the Hawk claims.

### Local:

The Hawk mineralized structure strikes about N15°E and dips about 25°W.

The structure is bounded by a metamorphic zone which may be as much as 100' wide, lying between granodiorite in both the hanging-wall and the foot-wall. A strong quartz vein, between 3 to 4 feet, wide follows close to the granodiorite hanging-wall.

The metamorphic rock is mostly fine-grained biotitic, occasionally banded, dark rock, which could be a metamorphosed tuff or dyke rock. Contacts with the granodiorite rock are sometimes sharp, sometimes diffused.

At the far south end of the workings, a very straight and tight shear striking N40°W, dip 66°SW is present. The quartz vein is more or less "dispersed" before it reaches this shear.

The quartz vein consists of brittle milky white quartz with pods, streaks and disseminations of sulphides. The gold is apparently related to the sulphides and probably occurs as a telluride. In addition, the quartz vein carries irregularly disseminated scheelite, sometimes in crystals one or two inches in diameter and there is minor chalcopyrite.

It has been concluded that the average grade of the Ashlu vein across an average mining width of about 150 cm, is of the order of 0.4 to 0.5 oz/tonne of gold. Tungsten content is lightly variable and appears to be concentrated in the central portion of the vein.



WORK AND RESULTS OF DIAMOND DRILLING ON HAWK CLAIMS

RECORD # 1542, 1543, 1578 & 1579 for 1983 and 1984

The purpose of this diamond drilling program was to provide further knowledge as to the geological structures at the property, and to find an economical orebody in order to extend our reserves. Actual drilling was performed on the Hawk #1 mineral claim.

A map showing diamond drill hole locations is on page 1 of the appendix.

There were a total of eight holes drilled on the property in the summer and fall of 1984. They were DDH 84-8 to 84-13 and UG #1 and #2. A total of 324 metres of 2.54 cm core was drilled.

Diamond drill hole 84-8 was drilled with intent to extend the vein deposit beyond the workings in the already existing mine. No vein was recovered; however, a zone of approximately 12 feet of core length gave some promising assays.

Refer to assay reports on pages 2-7 in attached appendix.

Two more drill sites were constructed in an easterly direction from drill hole 84-8. These holes, DDH 84-9 to 84-13, were intended to provide further knowledge about the zone in DDH 84-8.

All drill core was logged by a qualified geologist. Log records are on pages 8 to 14 in the appendix.

All core is stored in a locked core shed at the mine site.

## PHYSICAL WORK ON HAWK MINERAL CLAIMS

During the course of July and August 1984, five exploration pits were dug. The purpose of these pits was to obtain a better idea of size and uniformity of small outcrops on the property. The locations of these pits is shown on a map on page 15 of the appendix.

Pit dimensions and volumes removed are as follows:

|             | <u>Dimensions</u>   |
|-------------|---|
| Exp. Pit #1 | Width = 3.05 m<br>Length = 3.65 m<br>Depth = 3.65 m<br><br>Total volume removed = 40.6 m <sup>3</sup> |
| Exp. Pit #2 | Width = 8.23 m<br>Length = 4.88 m<br>Depth = 1.22 m<br><br>Total volume removed = 49.0 m <sup>3</sup> |
| Exp. Pit #3 | Width = 1 m<br>Length = 1 m<br>Depth = 1 m<br><br>Total volume removed = 1 m <sup>3</sup>             |
| Exp. Pit #4 | Width = 6.1 m<br>Length = 2.0 m<br>Depth = 1.8 m<br><br>Total volume removed = 22.0 m <sup>3</sup>    |
| Exp. Pit #5 | Width = 1.0 m<br>Length = 1.0 m<br>Depth = 1.0 m<br><br>Total volume removed = 1.0 m <sup>3</sup>     |

WORK PROGRAM FOR 1984 - STATEMENT OF COSTS

A. PITS & CONSTRUCTION OF ROADS AND TRAILS

|                                |                  |              |
|--------------------------------|------------------|--------------|
| Cat by hour                    | 20 hrs. @ \$50   | \$ 1,000     |
| Scoop tram                     | 23 hrs. @ \$50   | 1,150        |
| Pits                           | 50 hrs. @ \$50   | 2,500        |
| Cases of dynamite 70%          | 3 @ \$100        | 300          |
| Caps                           | 50 caps @ \$2    | 100          |
| Prima cord                     | 1 roll @ \$19    | 19           |
| Jack hammer                    | 30 days @ \$35   | 1,050        |
| Labour (30 days)               | 2 men @ \$10/hr. | 4,800        |
| Road grader                    | 12 hrs. @ \$60   | 720          |
| Office overhead - 25% \$15,000 |                  | <u>3,750</u> |
|                                |                  | 15,389       |

B. DIAMOND DRILLING

1. Above Ground Drilling - 305 metres

|  |                        |            |
|--|------------------------|------------|
| 16 weeks drilling  | 3 men @ \$13/hr.       | 29,952     |
| Tractor air compressor   | 10 days @ \$35         | 350        |
| Four wheel drive (2)   | 5 mos. @ \$800 ea./mo. | 8,000      |
| Mileage to and from work   | 200 km x 2 x 25¢       | 100        |
| 1,000' 3/4" plastic pipe   | @ 30¢/ft.              | 300        |
| 10 fittings  | @ \$1.50               | 15         |
| 100' aluminum drill rod  |                        | 570        |
| Rod grease   |                        | 30         |
| Lumber for drill site  |                        | 200        |
| Core boxes   | 40 @ \$12.50/ea.       | 500        |
| Sac drill mud  | 10 @ \$9.80 ea.        | 98         |
| 54' casing   | @ \$12/ft.             | 648        |
| Survey   | 10 hrs. @ \$25/hr.     | 250        |
| Allowance for living in camp   | 3 men @ \$30/day/man   | 9,000      |
| Chopper to and from work site<br>for supplies and haul out<br>core and men |                        | <u>685</u> |
|  |                        | 50,698     |

2. Underground Drilling - 19 metres

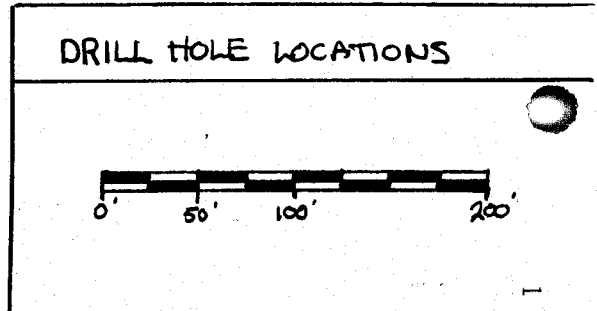
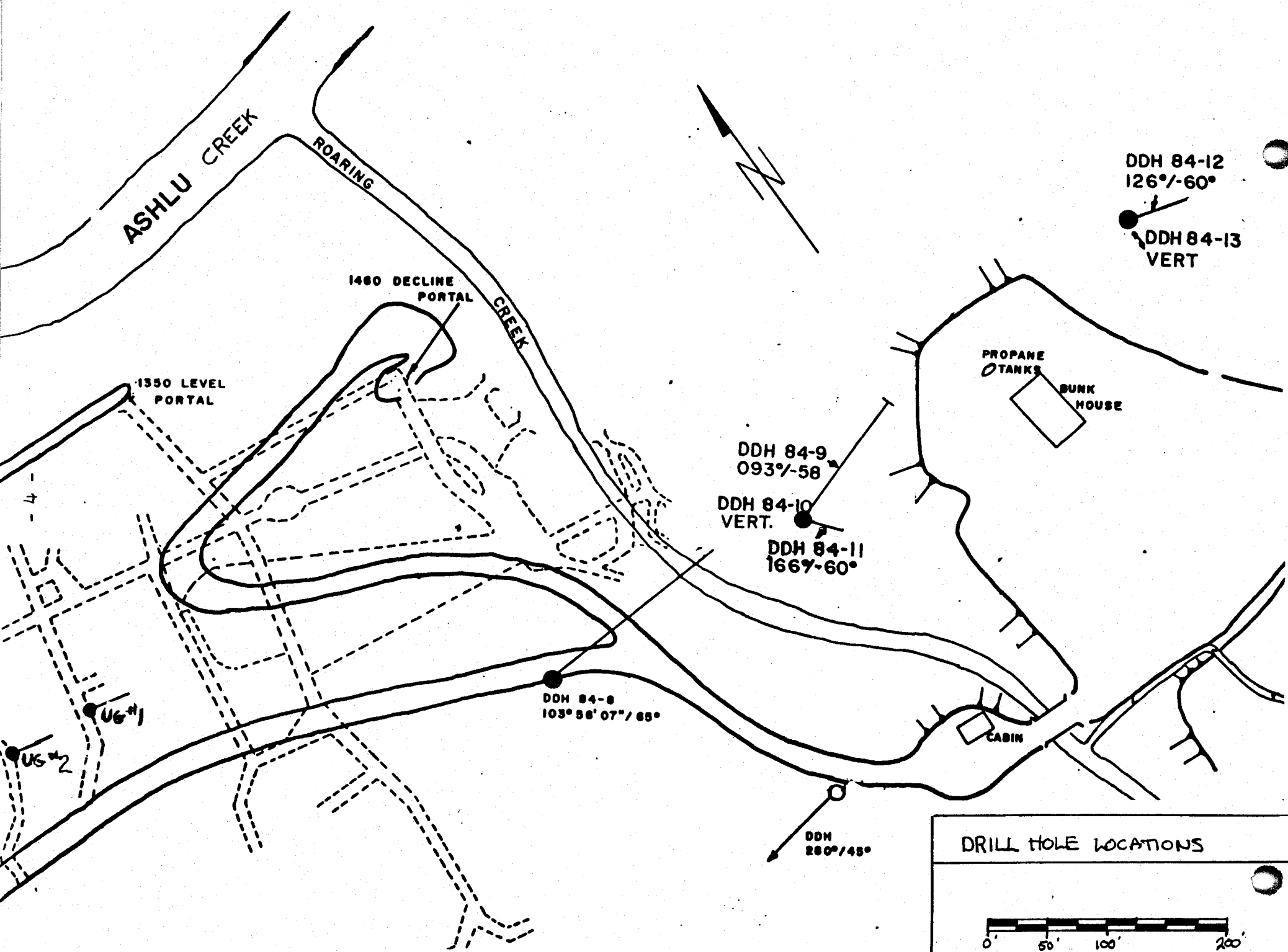
|   |                       |               |
|---|-----------------------|---------------|
| Air compressor  | 3 days @ \$300        | 900           |
| Fuel for air compressor                               | 288x4 litres @ 47.09¢ | 542           |
| Light plant for air                                   | 3 days @ \$200/day    | 600           |
| Fuel for light plan                                   | 144x4 litres @ 47.09¢ | 271           |
| Labour for underground air and water lines for 6 days |                       |               |
| - 1 shift boss  | 1x6x8x\$19.50         | 936           |
| - 2 miners  | 2x6x8x\$14.50         | 1,392         |
| Two men, one shift boss to remove lines               |                       |               |
| - 1 shift boss  | 1x2x8x\$19.50         | 312           |
| - 2 men   | 2x2x8x\$14.50         | 464           |
| 6 days water  | @ \$25/day            | 150           |
| Air line rental                                       |                       | <u>150</u>    |
|   |                       | 5,717         |
| Office overhead - 70% of \$15,000                     |                       | <u>11,250</u> |

\$67,665

C. LOGGING OF CORE AND ASSAYING BY GEOLOGIST

|                                  |                 |
|----------------------------------|-----------------|
| Logging of core and assaying     | \$ 1,500        |
| Office overhead - 5% of \$15,000 | 750             |
| Geologist                        | <u>1,608</u>    |
|                                  | <u>\$ 3,858</u> |

APPENDIX





**DOLMAGE CAMPBELL & ASSOCIATES (1975) LTD.**  
CONSULTING ENGINEERS

SUITE 1000-1055 W. HASTINGS STREET  
VANCOUVER, CANADA V6E 2E9  
TELEPHONE (604) 681-2345  
TELEX 04-54461

October 12, 1984

Mr. Herb Schnelle, President  
Osprey Mining and Exploration Ltd.  
6446 Nelson Avenue  
Burnaby, B.C.  
V5H 3J5

Dear Mr. Schnelle:


Additional assays from your drill hole 84-8 are given below:

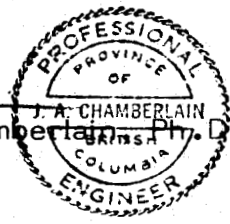
| Sample No. | Footage |     | Ag oz/T | Au oz/T |
|------------|---------|-----|---------|---------|
|            | From    | To  |         |         |
| 6204       | 210     | 215 | 0.05    | 0.005   |
| 6205       | 196.2   | 210 | 0.02    | 0.003   |

These results confirm that the interesting values previously noted from 215' to 227' do not extend above or below this zone. It now remains to re-examine the split core from 215' to 227' more closely in an attempt to pin down the actual gold occurrences.

All five rejects from the sampling of DDH 84-8 are now on hand in our offices.

Sincerely yours,  
DOLMAGE CAMPBELL & ASSOC. (1975) LTD.

  
Joseph A. Chamberlain, Ph.D., P.Eng.



JAC:cjm  
enclosure





# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1

Telephone: (604) 984-0221  
Telex: 043-52597

## CERTIFICATE OF ASSAY

TO : DOLMAGE CAMPBELL & ASSOCIATES LTD.

1000 - 1055 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 2E9

CERT. # : A8416519-001-A  
INVOICE # : I8416519  
DATE : 9-OCT-84  
P.O. # : NONE  
ELDEN 1641

ATTN: J.A. CHAMBERLAIN

| Sample description | Prep code | Ag FA oz/T | Au FA oz/T |    |    |    |    |
|--------------------|-----------|------------|------------|----|----|----|----|
| 6204               | 207       | 0.05       | 0.005      | -- | -- | -- | -- |
| 6205               | 207       | 0.02       | 0.003      | -- | -- | -- | -- |

.....  
Registered Assayer, Province of British Columbia





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212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1  
Telephone: (604) 984-0221  
Telex: 043-52597

## CERTIFICATE OF ASSAY

TO : OSPREY MINING & EXPLORATION LTD.

6446 NELSON ST.  
VANCOUVER, B.C.  
V5H 3J5

CERT. # : A8417955-001-A  
INVOICE # : 18417955  
DATE : 23-NOV-84  
P.O. # : NONE

| Sample description | Prep code | Ag FA oz/T | Au FA oz/T |    |    |    |    |
|--------------------|-----------|------------|------------|----|----|----|----|
| DDH 84-9 65'-67'   | 207       | 0.24       | <0.003     | -- | -- | -- | -- |
| DDH9 77'8"-87'0"   | 207       | 0.26       | <0.003     | -- | -- | -- | -- |
| DDH9 162'-167'     | 207       | 0.14       | <0.003     | -- | -- | -- | -- |
| DDH9 172'-174'     | 207       | 0.14       | <0.003     | -- | -- | -- | -- |
| DDH10 74'-76'4"    | 207       | 0.45       | 0.010      | -- | -- | -- | -- |
| DDH12 41'4"-44'4"  | 207       | 0.22       | <0.003     | -- | -- | -- | -- |

*Sen Amador*

Registered Assayer, Province of British Columbia





**DOLMAGE CAMPBELL & ASSOCIATES (1975) LTD.**  
CONSULTING ENGINEERS

SUITE 1000-1055 W. HASTINGS STREET  
VANCOUVER, CANADA V6E 2E9  
TELEPHONE (604) 681-2345  
TELEX 04-54461

September 19, 1984

Mr. Herb Schnelle, President  
Osprey Mining and Exploration Ltd.  
6446 Nelson Avenue  
Burnaby, B.C.  
V5H 3J5

Dear Mr. Schnelle:

Enclosed is a geological log and assay results of your diamond drill hole 84-8.

As you will note from the log, the typical rocks are quartz diorites and andesites, with local variations. The following observations are made:

1. No evidence of the quartz vein was noted in the drill core.
2. One section of disseminated pyrite with minor pyrrhotite and chalcopyrite from 215 to 236 feet was split. Assay results are as follows:

| Footage |       | Cu %  | Ag oz/T | Au oz/T |
|---------|-------|-------|---------|---------|
| From    | To    |       |         |         |
| 215     | 227   | <0.01 | 0.03    | 0.154   |
| 227     | 229.6 | <0.01 | 0.22    | <0.003  |
| 229.6   | 236.2 | <0.01 | 0.10    | <0.003  |

The gold and silver were fire-assayed and it appears that the section from 215 to 227 feet is carrying significant gold. A short core interval above 215 feet should now be assayed to "close off" this mineralization, as mentioned on the phone.

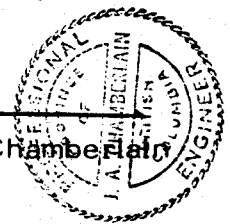
I have instructed the assay lab to return sample rejects to this office. The assay pulps will be kept at the lab for one year free of charge.

The split core from the zone of interest (215 to 227 feet) should be re-examined in detail in an effort to pin down the gold occurrence. It is

possible that this mineralization is the indicator of a new ore zone lying 100 feet or so beneath the main Ashlu vein structure.

Sincerely yours,  
DOLMAGE CAMPBELL & ASSOC. (1975) LTD.

Joseph A. Chamberlain



JAC:cjm  
enclosures



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212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1

Telephone: (604) 984-0221  
Telex: 043-52597

## CERTIFICATE OF ASSAY

TO : DOLMAGE CAMPBELL & ASSOCIATES LTD.

1000 - 1055 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6E 2E9

CERT. # : A8415857-001-A  
INVOICE # : I8415857  
DATE : 16-SEP-84  
P.C. # : NONE  
ELDEN 1608

ATTN: J. A. CHAMBERLAIN

| Sample description | Prep code | Cu %  | Ag FA oz/T | Au FA oz/T |    |    |    |
|--------------------|-----------|-------|------------|------------|----|----|----|
| 6201               | 207       | <0.01 | 0.03       | 0.154      | -- | -- | -- |
| 6202               | 207       | <0.01 | 0.22       | <0.003     | -- | -- | -- |
| 6203               | 207       | <0.01 | 0.10       | <0.003     | -- | -- | -- |

*Stan Moncini*

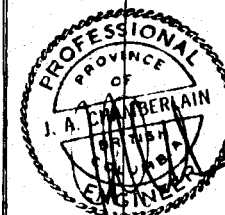
.....  
Registered Assayer, Province of British Columbia



DRILL RECORD — DOLMAGE, CAMPBELL & ASSOCIATES LTD.

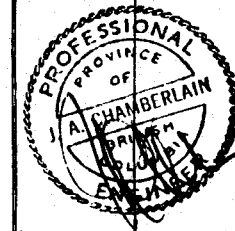
Coord.: Length: 400.8' Project: Ashlu Mine Exploration Hole No.: 84-8  
 Elev.: Azimuth: 103° Location: Mine Area Date: September 7, 1984  
 Core Size: 1" diam. Dip: 67° Purpose: Explor. for extensions of main vein. Logged By: J.A. Chamberlain

| DEPTH (metres) |     | ROCK TYPE           | DESCRIPTION  | CORE LOSS |    |      |
|----------------|-----|---------------------|--|-----------|----|------|
| FROM           | TO  |                     |  | FROM      | TO | LOST |
| 0              | 2   | Boulder over-burden | DIORITE, fg to mg. Dissem py & cp up to 0.5%.  |           |    |      |
| 2              | 20  | Boulder over-burden | QTZ DIORITE, cg, biotite 10-15%. Rare scattered py less than 0.5%.   |           |    |      |
| 20             | 24  | Boulder over-burden | ANDESITE, f g, blocky, very rare dissem py less than 0.1%.   |           |    |      |
| 24             | 33  | Boulder over-burden | QTZ DIORITE, cg, biotite 15%.  |           |    |      |
| 33             | 45  | ANDESITE            | f g, grn-grey, banded locally at 30° to core axis, parallel to sharp QD contacts. Ground core at 33'. Very rare blebs cp. Contains 25% QD stringers, bands.  |           |    |      |
| 45             | 58  | ANDESITE            | f g, grn-grey, vaguely banded 20 to 60°, contorted in places. Rare pyrrhotite coatings on chlorite-filled fractures. Contact with lower QD appears to be 70° to core axis.   |           |    |      |
| 58             | 72  | QUARTZ DIORITE      | cg pale grey, biotite 5-10%. Andesite "bands" up to 6" at 40 to 60° to core axis. Local clots of chlorite up to 3/8" diam. Very rare dissem py. Core recovery moderately good (90%).   |           |    |      |
| 72             | 139 | META DIORITE        | grey, fg to mg weakly, banded, siliceous, containing zones up to 2' of andesite. The MD is locally phyllitic with streaks of chlorite plus threads of probable epidote locally. No significant sulps. Vague banding at upper part of this section is 20 to 30° to ca, steepening to 45° toward base. Contortions also present. Some lost core 5-10%. |           |    |      |
| 139            | 147 | META ANDESITE       | grn-grey, fg, streaking of chlor-epidote 20 to 30° to ca. At 146' a few scarlet streaks in pale felds (?). No significant structure; qtz str 1/2" at 142'. Some lost core 5-10%.   |           |    |      |
| 147            | 167 | DIORITE             | mg, dark grey, 40 to 60% mafics, bio-hybl, with local weakly gneissic aspect.  |           |    |      |



Project Ashlu Mine Exploration Hole No. 84-8

| DEPTH (m.) |       | ROCK TYPE      | DESCRIPTION  | CORE LOSS             |                     |      |
|------------|-------|----------------|--|-----------------------|---------------------|------|
| FROM       | TO    |                |  | FROM                  | TO                  | LOST |
| 171.5      | 171.5 | QUARTZ DIORITE | pale grey, cg, 10% mafics as previous QD. Broken core 3" at 171.5. Fresh, no sulps.  |                       |                     |      |
| 186.5      | 186.5 | META ANDESITE  | dk grey, fg, biotite 60% (t). Local rare dissem py. Zones of QD up to 10" dipping at 60° to ca. Wvgs at 178' lined with quartz. Few py cubes.                          |                       |                     |      |
| 193        | 193   | QUARTZ DIORITE | pale purplish grey, cg to mg, very weak gneiss aspect. No significant sulps.   |                       |                     |      |
| 196.2      | 196.2 | ANDESITE       | med grn-grey f.g. 1" vein qtz at 195'. No sulps.   |                       |                     |      |
| 210        | 210   | QUARTZ DIORITE | pale grey, few distinct mafics; this is different species from distinctly grained QD in previous sections. No significant sulps.                                       |                       |                     |      |
| 227        | 227   | ANDESITE       | dk grey, fg. high % mafics (hnb1-bio). Fresh looking rock, contains dissem sulps (2%) mainly py but also cp.   | ASSAY<br>215          | Cu, Ag, Au<br>227   |      |
| 236.2      | 236.2 | MIGMATITE      | Mixed andesite - QD with dissem sulps, mainly py and po. Local minor dissem cp. Sulps up to 2% over 1 ft. Rock appears fresh, no significant structure. Good recovery. | ASSAY<br>227<br>229.6 | Cu, Ag, Au<br>229.6 |      |
| 330.9      | 330.9 | QUARTZ DIORITE | Pale grey, cg, contains patchew (inclusions) of andesite constituting 20% of core. Cts seem to be 50 to 70° to ca. Local andesitic sections up to 1.8' in length.      |                       |                     |      |
| 345        | 345   | QUARTZ DIORITE | Pale grey, cg, contain 10% mafics, mainly biot. Rock is uniform, clean and unaltered in appearance. Very good recovery, no appreciable sulps or structure.             |                       |                     |      |
| 380        | 380   | MIGMATITE      | Roughly 50:50 mixture of QD and andesite. Scattered very minor py. Good recovery. Broken core 4" at 366.5.   |                       |                     |      |
| 395        | 395   | META DIORITE   | mg to fg, locally phyllitic, banding 10 to 30° to ca. Minor py (less than 0.5%).   |                       |                     |      |
| 400.8      | 400.8 | QUARTZ DIORITE | pale, cg, becoming weakly gneissic in last 2 feet of core. No sulps.<br><u>END OF HOLE</u>   |                       |                     |      |



Project Ashlu Mine Exploration  
 Hole No. 84-8  
 Page 2 of 2

DRILL RECORD — DOLMAGE, CAMPBELL & ASSOCIATES LTD.

Coord.:

Elev.:

Core Size: 1" diam

Length: 227'

Azimuth: 093°

Dip: -58°

Project: Ashlu Mine

Location: "Main Area"

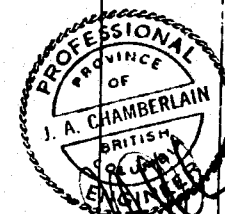
Purpose: Exploration for vein extension.

Hole No.: 84-9

Date: November 6, 1984

Logged By: J.A. Chamberlain

| DEPTH (metres) |     | ROCK TYPE      | DESCRIPTION   | CORE LOSS |    |      |
|----------------|-----|----------------|---|-----------|----|------|
| FROM           | TO  |                |   | FROM      | TO | LOST |
| 0              | 30  | QUARTZ DIORITE | Med. grey m.g. with brown oxidized zones (weathering). Zones up to 1 ft. of andesite. No sulps or vein structures. At 28 to 30, leached zone has 5% vugs.   |           |    |      |
| 30             | 107 | ANDESITE       | Med. grey, f.g. homogeneous section, occasional 1/8" calcite-filled stringers. Sulphides present in very local mafic-rich zones. Py, cp, po all observed.<br>65 to 67' dissem py in andesite : <u>sample</u><br>77.8 to 87' dissem py in andesite : <u>sample</u>   |           |    |      |
| 107            | 150 | QUARTZ DIORITE | Mixed zones of m.g. to f.g. with local chlorite clots of 1" or so in diam associated with po, cp and py, but mainly po at 109', 123', 124', 139' which should be assayed later if other results encouraging.  |           |    |      |
| 150            | 209 | META ANDESITE  | Med. grey f.g. fairly uniform, scattered py fairly abundant in places, but no alteration or veining. Andesite is locally basaltic.<br>162' to 167' dissem py - <u>sample</u><br>170' to 172' includes 2" qtz vein with py - <u>sample</u><br>200.9' to 206.6' (Previously split by Steve Colt: if this section shows any values, assay adjacent, split sections.) - <u>sample</u> |           |    |      |
| 209            | 227 | QUARTZ DIORITE | Pale grey, m.g. to c.g. with local basaltic sections showing sharp, intrusive contacts. No sulps or structures of note.<br><br>E.O.H.   |           |    |      |



Project

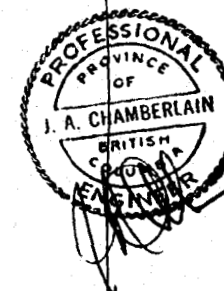
Hole No



DRILL RECORD — DOLMAGE, CAMPBELL & ASSOCIATES LTD.

Coord.: \_\_\_\_\_ Hole No.: 84-10  
 Elev.: \_\_\_\_\_ Length: 210' Project: Ashlu Mine Date: November 6, 1984  
 Core Size: 1" diam Azimuth: - Location: "Main Area" Logged By: J.A. Chamberlain  
 Dip: Vertical Purpose: Exploration for vein extension.

| DEPTH (metres) |      | ROCK TYPE      | DESCRIPTION   | CORE LOSS |    |      |
|----------------|------|----------------|---|-----------|----|------|
| FROM           | TO   |                |   | FROM      | TO | LOST |
| 0              | 11.2 | QUARTZ DIORITE | Med. grey, fractured, locally weathered. M.g. to f.g., variable textures.   |           |    |      |
| 11.2           | 15.8 | ANDESITE       | Green-grey f.g. andesite and andesite fragments in quartz diorite matrix. Old, healed breccia. No sulps.  |           |    |      |
| 15.8           | 28.0 | QUARTZ DIORITE | Med. grey, m.g. Locally broken core but no significant structures. No sulps.  |           |    |      |
| 28.0           | 87   | META ANDESITE  | Dark to med. grey, f.g. with local stringers of white quartz on fine irreg. fractures. Pyrite zone as listed below:<br>74' - 76.5' dissem pyrite and pyrite coatings on fractures - <u>sample</u> |           |    |      |
| 87             | 94   | QUARTZ DIORITE | Med. grey, m.g. with local zones of andesite (or meta andesite) up to 1 ft. Sharp, irregular contacts. The andesite zones probably represent inclusions in the Q.D. Rare py.                      |           |    |      |
| 94             | 109  | META ANDESITE  | Med. grey, f.g. uniform textured rock. Has "lamprophyric" appearance. Composed of 50% fine biotite. Rare pyrite, less than 0.5%.  |           |    |      |
| 109            | 125  | QUARTZ DIORITE | Med. grey, m.g., clean, fairly homogeneous section. No sulps.   |           |    |      |
| 125            | 135  | QUARTZ DIORITE | Med. grey, m.g. with many 1' sections of meta andesite as 94-109'.  |           |    |      |
| 135            | 151  | QUARTZ DIORITE | as 109' to 125'.  |           |    |      |
| 151            | 157  | META ANDESITE  | as 94' to 109'.   |           |    |      |
| 157            | 163  | QUARTZ DIORITE | as 109' to 125'.  |           |    |      |
| 163            | 186  | ANDESITE       | Dark grn andesite which is more typical of this area. Local stringers of QD but over 90% volcanic. No sulps or significant structures.  |           |    |      |
| 186            | 210  | QUARTZ DIORITE | Pale grey m.g. to c.g., with 20% of rock andesite as inclusions or bands. 208 to 210 broken andesite. No sulps.   |           |    |      |



Project

DRILL RECORD — DOLMAGE, CAMPBELL & ASSOCIATES LTD.

Coord.:

Hole No.: 84-11

Elev.:

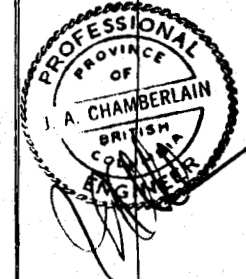
Date: November 6, 1984

Core Size: 1" diam

Length: Project: Ashlu Mine  
 Azimuth: 166° Location: "Main Area" (same collar 84-9,84-10)  
 Dip: (-)60° Purpose: Exploration for vein extension.

Logged By:

| DEPTH (metres) |    | ROCK TYPE | DESCRIPTION   | CORE LOSS |    |      |
|----------------|----|-----------|---|-----------|----|------|
| FROM           | TO |           |   | FROM      | TO | LOST |
| 0              | -  |           | Zone of very poor core recovery. No core saved. None seen by J.A.C. |           |    |      |



Project

FILE NO.

DRILL RECORD — DOLMAGE, CAMPBELL & ASSOCIATES LTD.

Coord.:

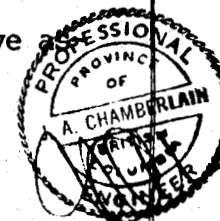
Length: 102'  
Azimuth: 126°  
Dip: (-)60°

Project: Ashlu Mine  
Location: "Main Area"  
Purpose: Exploration for vein extension.

Hole No.: 84-12  
Date: November 6, 1984  
Logged By: J.A. Chamberlain

Elev.:  
Core Size: 1" diam

| DEPTH (metres) |      | ROCK TYPE          | DESCRIPTION   | CORE LOSS |    |      |
|----------------|------|--------------------|---|-----------|----|------|
| FROM           | TO   |                    |   | FROM      | TO | LOST |
| 0              | 15.5 | SILICIFICATION     | Grey-white, probably silicified diorite, 80% quartz with streaks of chlorite. Rare cubes of pyrite locally associated with mafic streaks. Good recovery. No significant structures.   |           |    |      |
| 15.5           | 18   | QUARTZ DIORITE     | Pale grey, m.g., clean appearance. No structures of note. Gradational contacts.   |           |    |      |
| 18             | 24   | SILICIFIED DIORITE | Pale grey silicified equivalent of 15.5 to 18. Biotite clots 4" at 23'. No sulps. Broken core locally, but no structure of note.  |           |    |      |
| 24             | 26.8 | QUARTZ DIORITE     | Pale grey, m.g., quartz-felds with 10% biotite.   |           |    |      |
| 26.8           | 31.8 | ANDESITE           | Pale grey, f.g., silicified. Hair fractures at 45° to c.a. filled with chlorite. No sulps.  |           |    |      |
| 31.8           | 76   | QUARTZ DIORITE     | Pale to med. grey, m.g. to f.g., variable textures but difficult to separate as distinct rock species. Pyrite concentrations disseminated in chlorite zones as follows:<br>41.8' 10% dissem py over 3" } <u>sample</u> 41.5'-45.0' (3.5')<br>43' 10% dissem py over 4" or 3% over 1' }<br>46.8' 2% dissem py over 2" } <u>sample</u> 45.0'-47.5' (2.5') |           |    |      |
| 76             | 78   | BRECCIA            | Diorite inclusions in chlorite matrix. Well healed, old structure, unrelated to mineralization.   |           |    |      |
| 78             | 88   | META ANDESITE      | Pale grey to green variable f.g. textures. No sulps.  |           |    |      |
| 88             | 102  | META DIORITE       | Similar to 78-88 but somewhat coarser grained with intrusive aspect. No sulps.<br><br>E.O.H.  |           |    |      |



Hole

Hole

DRILL RECORD — DOLMAGE, CAMPBELL & ASSOCIATES LTD.

Coord.:

Hole No.: 84-13

Length: 74'5"

Project: Ashlu

Date: November 6, 1984

Elev.:

Azimuth: -

Location: (East of bunk house.)

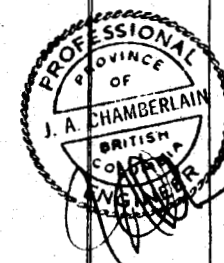
Logged By: J.A. Chamberlain

Core Size: 1" diam

Dip: vertical

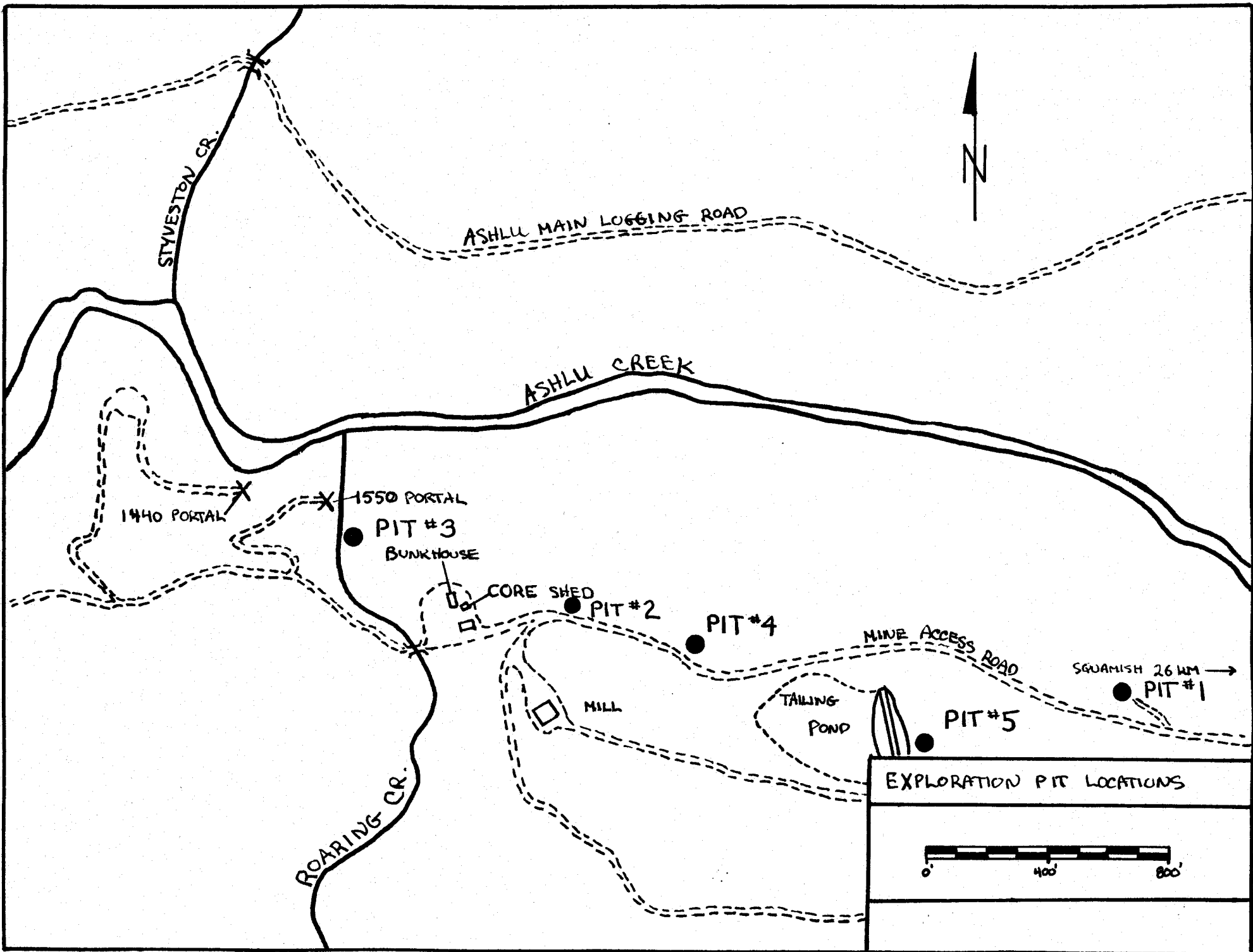
Purpose: Exploration for vein extension.

| DEPTH (metres) |      | ROCK TYPE      | DESCRIPTION  | CORE LOSS |    |      |
|----------------|------|----------------|--|-----------|----|------|
| FROM           | TO   |                |  | FROM      | TO | LOST |
| 0              | 74.5 | QUARTZ DIORITE | <p>Medium grey, fairly homogeneous aspect. Hard, competent, excellent recovery. Hairline fractures commonly at 45° to c.a., but not abundant (generally at 4 to 8" intervals). Mafic mineral mainly biotite, about 15%. Sulphides very scarce. Best py at 6' along one fracture. Nothing worth assaying.</p> <p>E.O.H.</p> |           |    |      |



Project

Hole No.



JOSEPH A. CHAMBERLAIN, Ph.D., P. Eng.

Director

**Born**

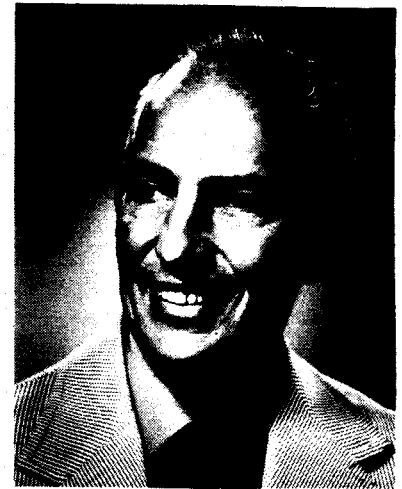
British Columbia, 1926

**Education**

1955 Bachelor's degree in Geological Sciences, University of British Columbia

1957 M.Sc. in Structural Geology, Harvard University

1958 Ph.D. in Structural and Economic Geology, Harvard University



**Professional Affiliations**

Association of Professional Engineers of the province of British Columbia

Canadian Institute of Mining and Metallurgy

Society of Economic Geologists

Geological Association of Canada

American Institute of Mining Engineers

Vancouver Geotechnical Society

**EXPERIENCE SUMMARY**

Dr. Chamberlain is a geologist with over twenty-five years experience in mineral exploration, research and engineering projects. He has particular broad expertise on base metal deposits, is an expert on nickel deposits, and is eminently qualified in ore and petrographic microscopy.

His early career as exploration and mine geologist for various mining companies was followed by ten years as Research Scientist with the Geological Survey of Canada where he was in charge of research on uranium and nickel deposits in Canada. During this period, he published seventeen scientific papers, many of which were concerned with mineralogical exploration guides to ore deposits.

In 1968, Dr. Chamberlain became an Associate of Dolmage Campbell. On-going assignments included geological and structural studies on ultramafic deposits in Spain, nickel deposits in New Caledonia, South Africa, United States and Canada, and tungsten deposits in Thailand. While consulting, Dr. Chamberlain accepted a half-time Professorship at the University of British Columbia to teach ore mineralogy and ore microscopy.

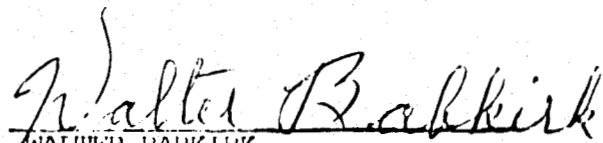
In 1973, Placer Development Ltd. offered him the position of Vice President of Exploration for Marcopper Mining Corporation. Based in Manila, Dr. Chamberlain was in charge of exploration in Southeast Asia for five years. In 1979, he returned to Canada and became a Principal of Dolmage Campbell. He has consulted on and managed a wide variety of exploration and engineering projects, including alignment and portal exploration for B.C. Railway's Tumbler Ridge tunnels and geological reconnaissance on river basin development for B.C. Hydro. Dr. Chamberlain acted as Expert Witness at the Royal Commission of Enquiry into Uranium Mining in British Columbia and is registered with the Asia Development Bank as Independent Consultant for Southeast Asia.

STATEMENT OF QUALIFICATIONS

I, WALTER BABKIRK, of 2055 Como Lake Avenue, in the Municipality of Coquitlam, in the Province of British Columbia, HEREBY CERTIFY the following qualifications:

I have been a full time Prospector for the past 11 years in British Columbia.

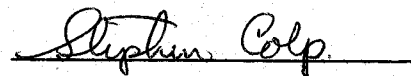
I passed the Rock and Minerals Test in 1968 with D. H. RAE and have been on the grubstake until the year 1978 with the Government Grubstake Program.

  
WALTER BABKIRK  
Qualified Prospector

STATEMENT OF QUALIFICATIONS

I, STEPHEN COLP, of 307 - 144 West 21st Street, North Vancouver, in the Province of British Columbia, HEREBY CERTIFY that:

1. I graduated in 1984 from British Columbia Institute of Technology in the Mining Engineering Technology Program.
2. I have been employed by Osprey Mining & Exploration Ltd. since 1984.



Stephen Colp  
Mining Technologist