

ELLEN CLAIMS
SHUTTLE ISLAND
QUEEN CHARLOTTE ISLANDS, B.C.
SKEENA M.D.
NTS 103B/12E

Lat. 52°40'N

Long. 131°42'30"W

LOCATION, ACCESS, TOPOGRAPHY 1] 13]

The property covers most of the northern part of Shuttle Island, which lies between Moresby and Lyell Islands.

The island is about 2.5 m long, by about 300 m wide at its widest and 150 to 200 feet wide in the claim area. Maximum elevations are about 120 metres. The slopes are covered with dense second growth timber, of possible economic value.

Access for the examination was made by helicopter landing on the beaches. For operation and exploration, supplies and equipment would be barged in from Queen Charlotte City.

CLAIM GROUP

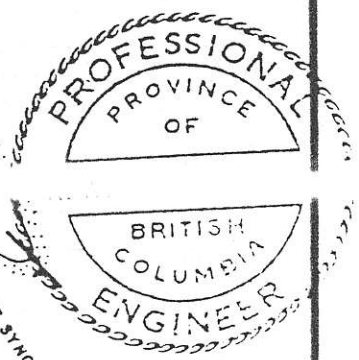
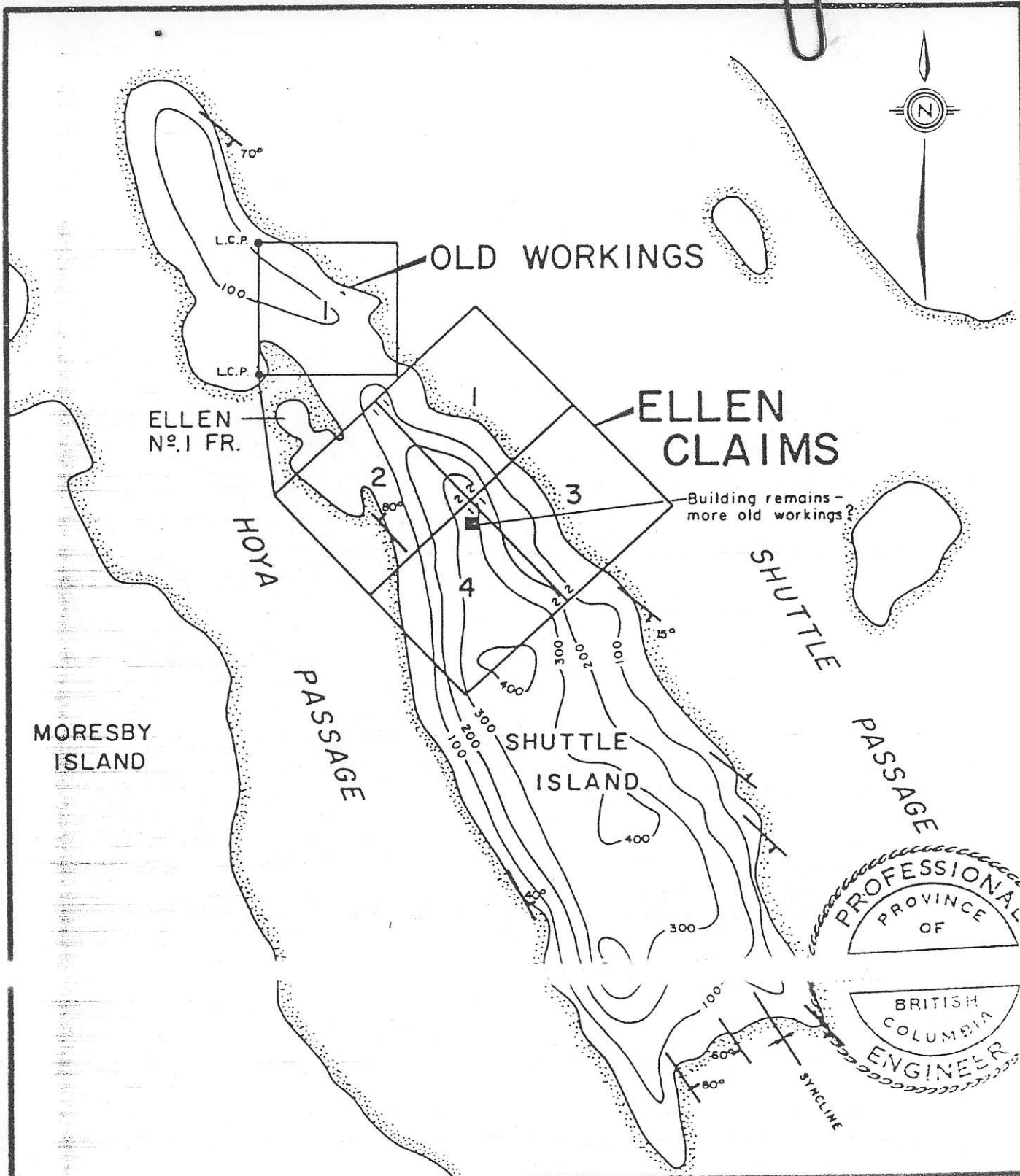
The Group consists of the following claims:

Name	Units	Record No.	Expiry Date
Ellen	1	1025	August 8, 1980
Ellen 1-4 incl.	4	1091-94 incl.	February 22, 1981
Ellen Fraction	1	Staked April 23, 1980	April ? 1981

L.C. Posts examined fulfilled the requirements of the Mining Act

13] Claim and Topographic Map,
Ellen Claims, 1:20,000

[Follows page 7]



 BEDDING INCLINATION after ASB Bulletin 54

Topographic contour interval = 100'

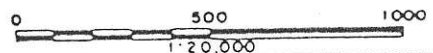
TO ACCOMPANY A REPORT BY:
A.F. ROBERTS, P. ENG. JUNE 6/80

CHARLOTTE JOINT VENTURE

ELLEN CLAIMS
SHUTTLE ISLAND Q.C.I
SKEENA M.D.

LOCATION MAP

by R. WOOLVERTON P.Eng. T.M.C. APR, 1980



NTS. 103-B-12 E

The exact location and the amount of ground covered can only be determined by a legal survey.

HISTORY 6] 8]

It was discovered about 1917-1918 by loggers taking out "airplane spruce", and worked over the next three years. It is reported that 50 tons produced 18 ozs of gold.

There was placer gold recovered from the beaches below the adits. The remains of that operation are still on the property.

GEOLOGY 12] 14] 15] 16] 17]

The property is covered by rocks of the lower Kar-mutsen Formation, consisting of greenstone, limestone, and argillite.

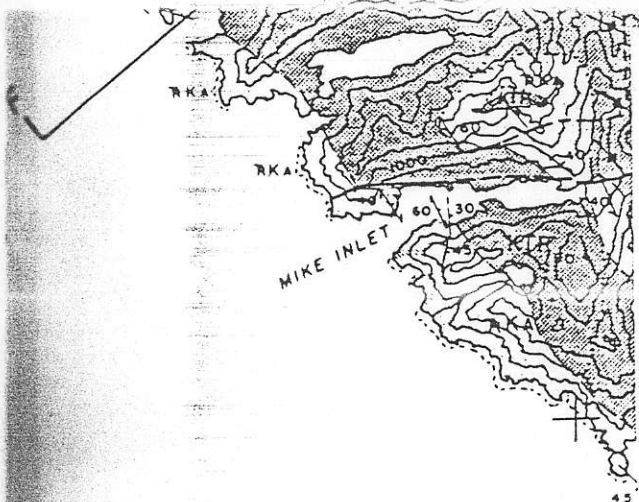
Limestone was seen on both sides of the island along the beach, overlain by greenstones.

The general geology map indicates an overturned syncline running lengthwise through the island.

The mapping also indicates major faulting paralleling the island, and there is a suggestion that the island lies in a major shear.

The magnetometer survey shows a moderate relief of only 500 gamma maximum, the contours roughly paralleling the island.

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- | | | |
|-----|---|------------------|
| 14] | General Geology Map, Ellen Claims, Bull. 54, 1:125,000, with Legend | [Follows page 8] |
| 15] | Geology map, R. Wolverton, Ellen Claims, 1:800 | [Follows page 8] |
| 16] | Airborne Magnetometer Survey, Ellen Claims, 1:20,000 | [Follows page 9] |
| 17] | Transit survey of old mine, Ellen Claims, Wolverton, 2.5 cm = 35 m | [Follows page 9] |



CHARLOTTE JOINT VENTURE
 VANCOUVER, B. C.
 GENERAL GEOLOGY MAP
 FROM B. C. DEPT. MINES BULLETIN 54
 ELLEN CLAIMS Q. C. I.
 SKEENA M. D. 103-B-12 E

DRAWN BY: A.F. ROBERTS
 SCALE: 1:125,000

FOR LEGEND SEE NEXT PAGE

TO ACCOMPANY A REPORT BY A. F. ROBERTS, P. ENG.
 DATED: JUNE 6, 1980.

LEGEND

STRATIFIED ROCKS

QUATERNARY

- Q** Recent alluvium, Pleistocene till, marine drift, and outwash sands
- Q-S Quaternary overlying Skonun Formation
- Q-M Quaternary overlying Masset Formation

TERTIARY OR QUATERNARY

- TOT** TOW HILL SILLS: olivine basalt

TERTIARY

MIO-PLIOCENE

- TS** SKONUN FORMATION: sands, mudstone, sandstone, conglomerate, and lignite

PALEOCENE-EOCENE ?

- TM** MASSET FORMATION: subaerial basalt flows and breccias, rhyolite ash flows, lesser dacite
- TM- Undivided Masset Formation
- Divided Tartu Facies
- TMc- Basalt member
- TMb- Rhyolite member
- TMa- Mixed member
- Hypabyssal Equivalents
- TMd- Feldspar porphyry
- TMe- Gabbro-diorite

CRETACEOUS

QUEEN CHARLOTTE GROUP (KS, KHa, KHA)

- KS** SKIDEGATE FORMATION: shaly siltstone, feldspathic sandstone, calcareous siltstone

- KH** HONNA FORMATION: conglomerate with granitic cobbles, arkosic grits, minor shale

ALBIAN-TURONIAN

- KHA** HAIDA FORMATION: green glauconitic and grey sandstone, grey silty shale and siltstone, buff calcareous siltstone

NEOCOMIAN

- KL** LONGARM FORMATION: dark grey calcareous siltstone and fine lithic greywacke, angular fine conglomerate, minor volcanic rocks

VANCOUVER GROUP (KA, KU, JKU, JM, JY)

JURASSIC

BAJOCIAN-CALLOVIAN

- JY** YAKOUN FORMATION: porphyritic andesite agglomerate and flows, calcareous scoriaeous lapilli tuff, volcanic sandstone and conglomerate, minor tuffaceous shale, coal

PLIENSCHACHIAN-TOARCIAN

- JM** MAUDE FORMATION: grey blocky argillite and shale, grey green lithic sandstone

JURASSIC AND TRIASSIC

- JKU** KUNGA FORMATION: massive grey limestone, flaggy black limestone, flaggy black argillite-undivided

- JKU** Flaggy black argillite member, minor limestone

- JKU₂** Flaggy black limestone member, minor argillite

- JKU** Limestone members-undivided

- JKU₁** Massive grey limestone member

TRIASSIC

KARNIAN AND OLDER

- KA** KARMUTSEN FORMATION: basalt massive flows, pillow lavas, pillow breccia and tuff, related sills, minor interlava limestone, volcanic sandstone and shale, amphibolitized equivalents

PLUTONIC ROCKS

CRETACEOUS AND TERTIARY

- KTP** POST-TECTONIC PLUTONS: quartz monzonite, granite, granodiorite, quartz diorite

JURASSIC ?

- JS** SYNTECTONIC PLUTONS: hornblende diorite, quartz diorite

- JSM** MIGMATITE: mixed hornblende diorite and amphibolite

As with the Early Bird, it is believed that the narrow veins, [two 20 cm veins], carrying the gold are the top of an epithermal deposit.

Previous work only cleaned out the one ore shoot, which did not reach the upper adit. The water filled shaft at the end of the adit, about 6 metres deep shows an apparent drift extending to the southwest.

No exploration work has been done since the vein was stoped out.

CONCLUSION

On the theory that the narrow veins are the top of an epithermal deposit, there is a good chance of finding other ore shoots at depth and along strike, and possibly other parallel veins.

The property is considered a good geological bet.

RECOMMENDATIONS

Under the conditions existing on the island, it will be necessary to do considerable trenching and stripping

Phase I

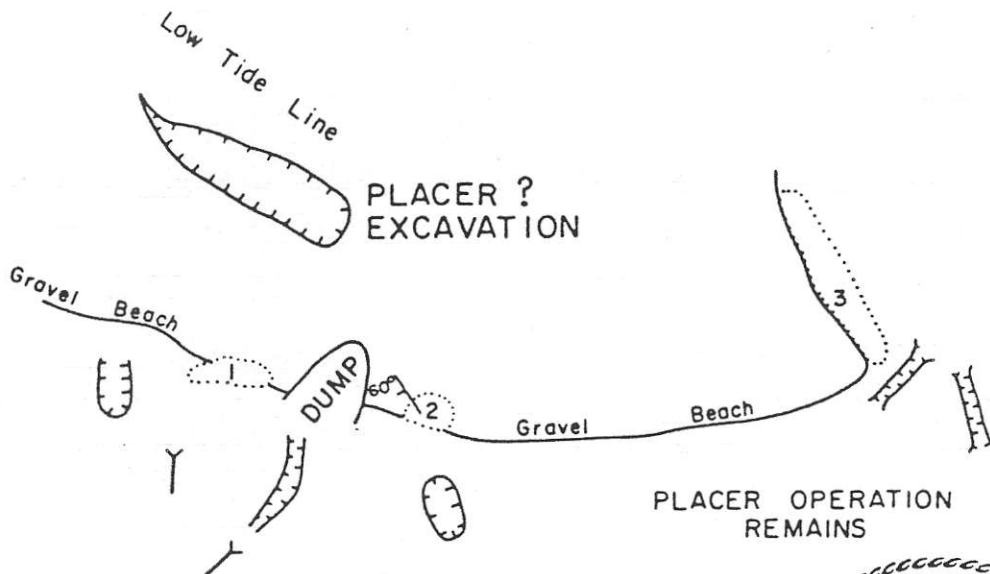
Geological mapping, stripping, trenching, sampling.

Phase II

Diamond drill to depth below the old adits, and along strike, guided by the mapping of Phase I.







SHUTTLE
PASSAGE



PLACER OPERATION
REMAINS



LEGEND:

-  Bedding (inclined)
-  Outcrop
-  Excavation
-  Adit

KARMUTSEN FORMATION	1	Greenstone
	2	Limestone
	3	Argillite

TO ACCOMPANY A REPORT BY:
A.F. ROBERTS, P. ENG. JUNE 6/80

CHARLOTTE JOINT VENTURE

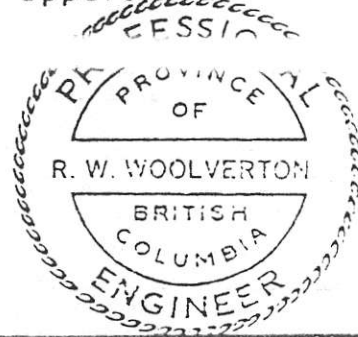
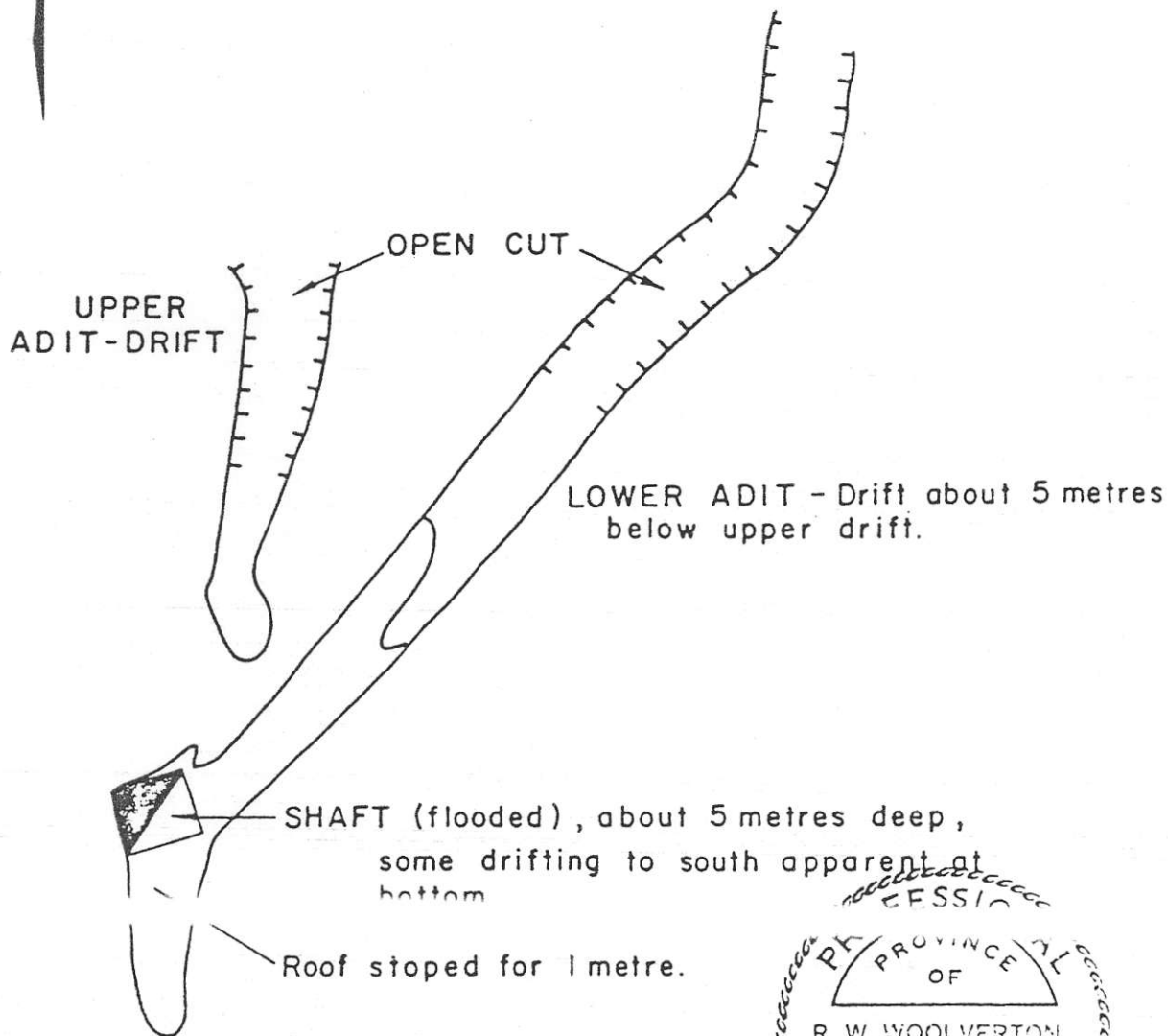
ELLEN CLAIMS
SHUTTLE ISLAND Q.C.I.
SKEENA M.D.

OLD WORKINGS

by R. WOOLVERTON P.Eng. r.w.e APR, 1980



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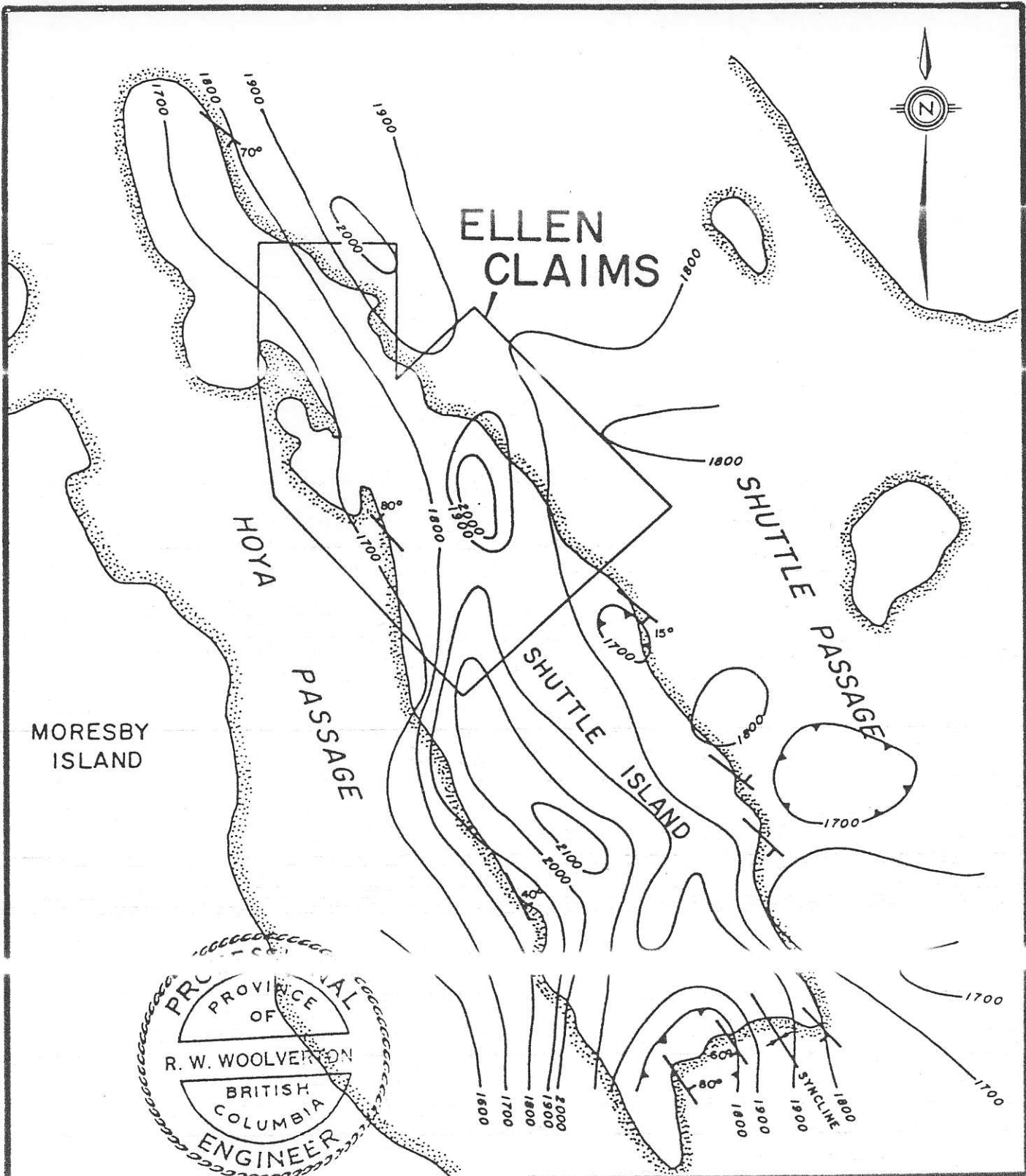
CHARLOTTE JOINT VENTURE

ELLEN CLAIMS
 SHUTTLE ISLAND Q.C.I.
 SKEENA M.D.
 TRANSIT SURVEY OF
 OLD MINE

by R. WOOLVERTON P. Eng. r.w.r. APR, 1980



NTS. 103-B-12 E



MORESBY ISLAND

HOYA


PASSAGE

ELLEN CLAIMS

SHUTTLE ISLAND

SHUTTLE PASSAGE

PROVINCIAL
 PROVINCE OF
 R. W. WOOLVERTON
 BRITISH COLUMBIA
 ENGINEER

 BEDDING INCLINATION after
 ASB Bulletin 54

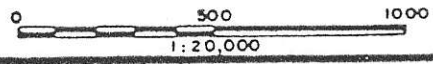
Magnetic intensity in gammas
 plus 55,000 equals actual intensity.

TO ACCOMPANY A REPORT BY:
 A.F. ROBERTS, P. ENG. JUNE 6/80

CHARLOTTE JOINT VENTURE

ELLEN CLAIMS
 SHUTTLE ISLAND Q.C.I.
 SKEENA M.D.
 AIRBORNE

MAGNETOMETER SURVEY
 by R. WOOLVERTON P.Eng. r.w.c. APR, 1980



NTS 103-B-12 E

ESTIMATED COSTS

Phase I

Seaborne mobilization, demobilization, rentals, camp, etc. from Queen Charlotte City	\$ 15,000.00
Helicopter servicing from Sandspit 30 hours @ \$375.00/hour	11,250.00
Camp, board, room 3 men, 30 days, \$50.00/day	4,500.00
Back hoe rental, 200 hours @ \$95.00/hour	19,000.00
Assaying - 100 @ \$8.75	875.00
Trace metal assays - 100 @ \$4.75, 3 metals	475.00
Engineering, supervision, reports, etc.	<u>5,000.00</u>
Sub-total	56,100.00
15% contingencies	<u>8,415.00</u>
Total	<u><u>\$64,515.00</u></u>
Say -	<u><u>\$65,000.00</u></u>

Phase II

If justified by Phase I, Phase II will consist of diamond drilling at least 1,000 metres at \$100.00/metre, with camp and assaying, is estimated at

\$150,000.00