

5765

DON TULLY ENGINEERING LTD.
SUITE 102-2222 BELLEVUE AVENUE
WEST VANCOUVER, BRITISH COLUMBIA
V7V 1C7

GEOPHYSICAL ASSESSMENT REPORT

ON THE

**BIG BEN FRACTION, YAUCO NO. 2, 4, FRACTION,
GOLD ROCK NO. 1, 3, FRACTION MINERAL CLAIMS
ZEBALLOS RIVER AREA
ALBERNI MINING DIVISION
BRITISH COLUMBIA**

N.L. 50° - 03'

W.L. 126° - 47'

#5765

FOR

**DIANA EXPLORATIONS LTD. (N.P.L.)
3RD FLOOR - 555 HOWE STREET
VANCOUVER, BRITISH COLUMBIA**

| | |
|---------------------------------|----------|
| Department of | |
| Mineral and Petroleum Resources | |
| ASSESSMENT REPORT | |
| BY | NO. 5765 |

DONALD W. TULLY, P.ENG.

JANUARY 15, 1976

WEST VANCOUVER, B. C.

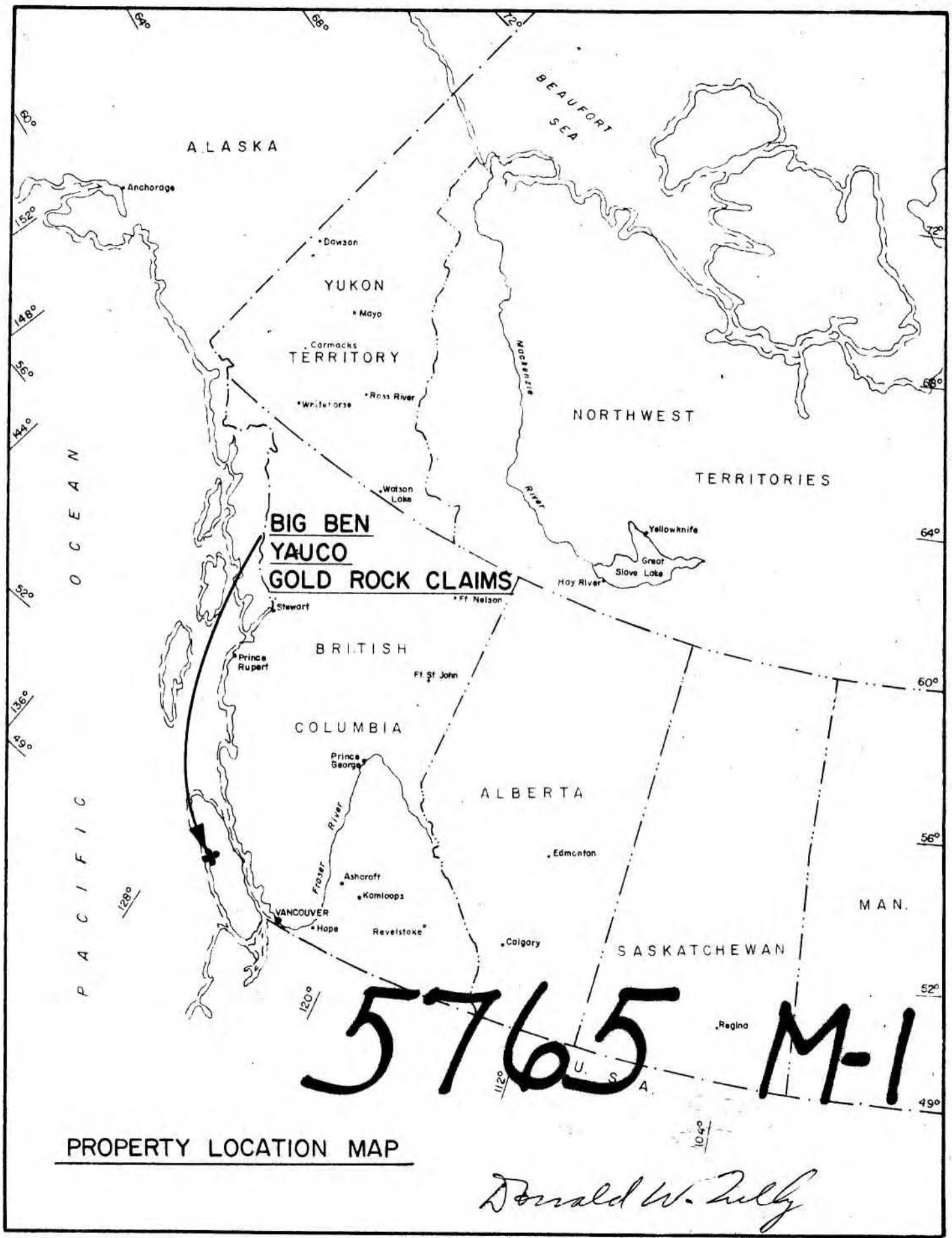


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MAPS

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**BIG BEN
YAUCO
GOLD ROCK CLAIMS**

5765 M-1

PROPERTY LOCATION MAP

Donald W. Zully

INTRODUCTION

The purpose of this assessment report is to summarize the results of a magnetometer geophysical survey over most of the BIG BEN Fraction, YAUCO and GOLD ROCK claims located on the Zeballos River, Vancouver Island, British Columbia. The report was prepared at the request of Diana Explorations Ltd., (N.P.L.), 3rd Floor, 555 Howe Street, Vancouver, British Columbia.

The field work was conducted on December 17, 18, 19, 20 and 21, 1975 with Mr. J. Hunyadi, 726 - 470 Granville Street, Vancouver, British Columbia.

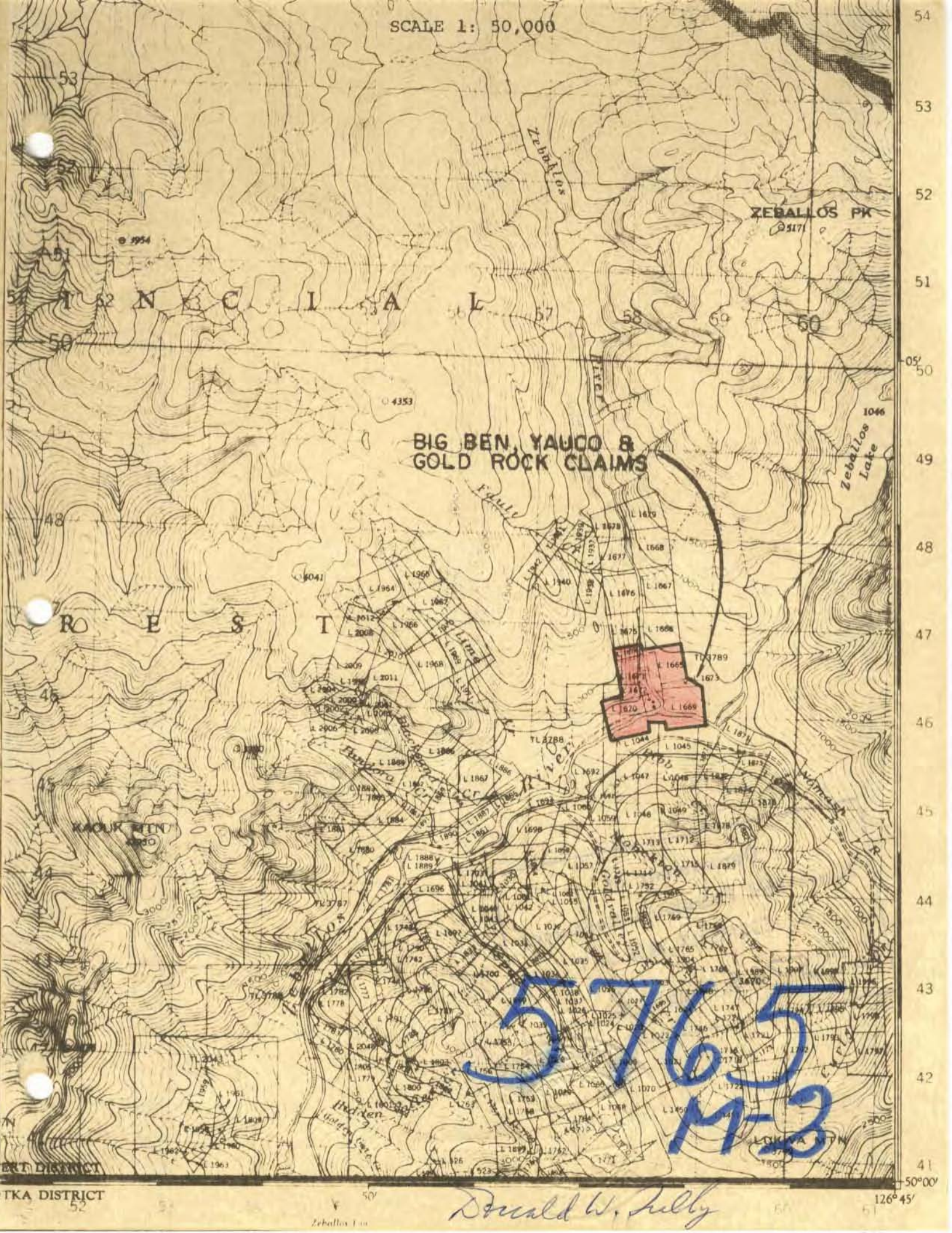
SUMMARY AND CONCLUSIONS

North of the claim group high-grade gold-bearing quartz veins occur along fissure-filled fractures associated with fault zones in the Zeballos area. Chalcopyrite, pyrrhotite, minor sphalerite, pyrite and galena accompany the precious metals in the veins.

One-half mile south of the claim group on Bibb Creek the former Central Zeballos gold property produced gold in the period 1938 - 1942.

A strong north-south fault occurs in the valley of the Zeballos River which traverses the claim group along a general north-south strike.

North-northwest trending magnetic anomalies were recorded from the results of the magnetometer survey. These anomalies may be due to a north-south fault pattern that is



BIG BEN, YAUCO & GOLD ROCK CLAIMS

ZEBALLOS PK

5171

Zeballos Lake

5765
M-3

believed to follow the valley of the Zeballos River north of the junction with Nomash Creek. Gold vein structures in the adjoining claim areas follow a general northwest trend.

Total local magnetic relief over the claim group was 1240 gammas.

PROPERTY - LOCATION, ACCESS, TOPOGRAPHY

The property comprises seven full and fractional mineral claims located at the confluence of the Zeballos River and Nomash Creek and the west side of Vancouver Island.

Road access southward from mileage 17 west of the Town of Woss on the Gold River - Port Hardy road is suitable for car travel.

Access is best by car from the Town of Zeballos at tidewater some five miles distant to the south on fair gravel road.

The claims are situated on the west side of Haihte Range and southwest of Zeballos Lake about elevation 400 - 900 feet above sea-level. Steep topography lies west of the Zeballos River on the claim group. Snow conditions prevailed during the geo-physical survey.

Rainfall is abundant and the climate is moderate in this part of Vancouver Island.

Gravel overburden covers much of the claim group in the valley of the Zeballos River.

LAND USE - ENVIRONMENT

Land use map 92L is available for the area of the claim group.

A study of existing topographic maps suggests the multiple land use potential is related generally to timber, fishing and mineral.

Second-growth timber potential is considered minimal at the present time over the claim group.

Sport fishing along the Zeballos River and the creeks in the headwaters area is believed to have important potential to tourism.

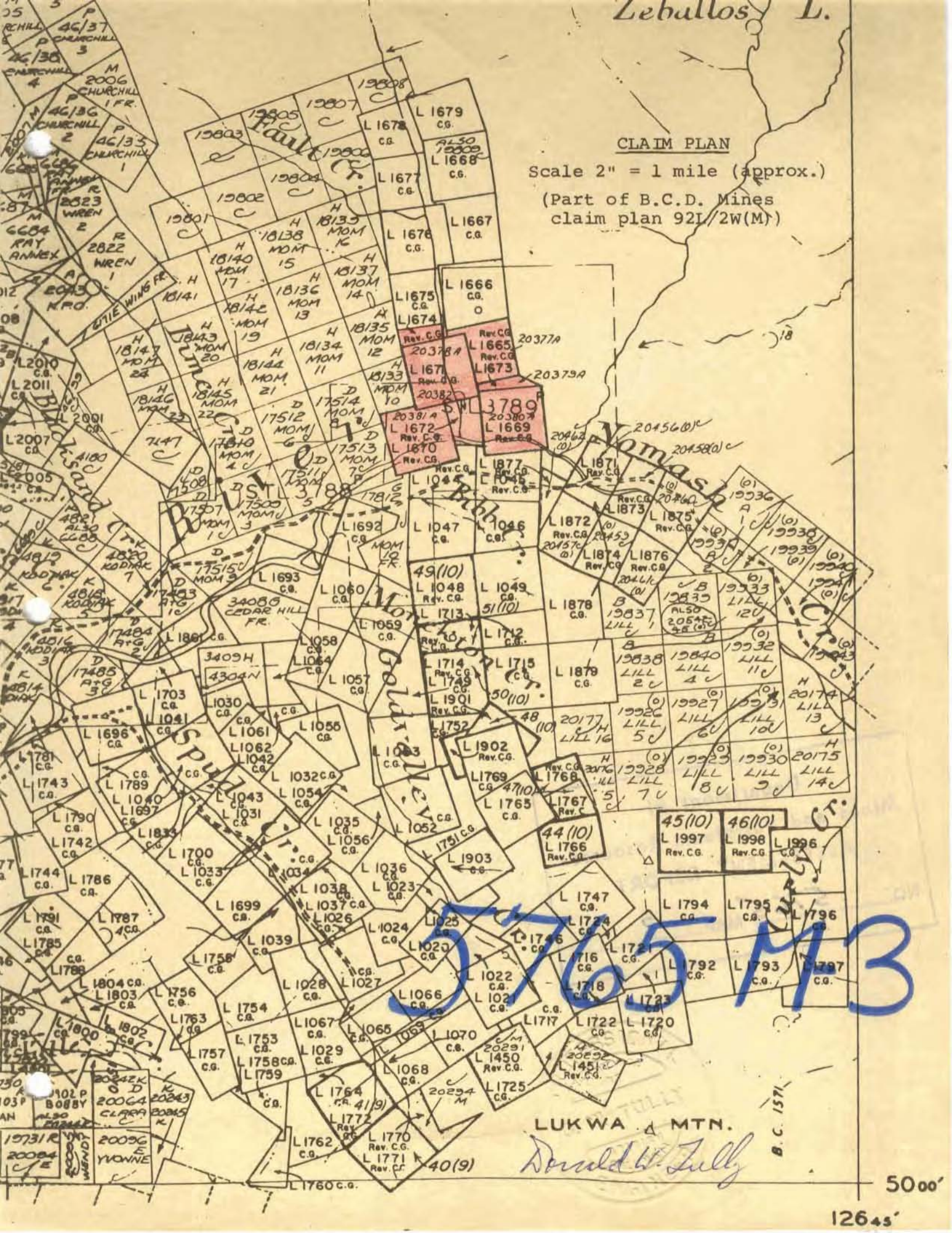
Vein-type mineral potential is considered good but as yet relatively unexplored due to overburden depth along the valley of the Zeballos River.

CLAIMS

The seven reverted Crown Grant mineral claims are shown on British Columbia Department of Mines and Petroleum Resources claim map 92L-2W(M) in the Alberni Mining Division.

Information from the Mining Recorder's Office at Port Alberni on January 7, 1976 was as follows:

| <u>CLAIM NAME</u> | <u>RECORD #</u> | <u>EXPIRY DATE</u> | <u>RECORDED HOLDER</u> |
|-------------------|-----------------|--------------------|----------------------------------|
| YAUCO No. 2 | 20378 | Jan. 31/76 | Diana Explorations Ltd. (N.P.L.) |
| YAUCO No. 4 | 20377 | " | " |
| YAUCO Fraction | 20379 | " | " |



CLAIM PLAN

Scale 2" = 1 mile (approx.)
(Part of B.C.D. Mines
claim plan 92I/2W(M))

LUKWA & MTN.
Donald H. Tully
B.C. 1571

5000'

12645'

| <u>CLAIM NAME</u> | <u>RECORD #</u> | <u>EXPIRY DATE</u> | <u>RECORDED HOLDER</u> |
|-------------------|-----------------|--------------------|----------------------------------|
| GOLD ROCK Fr. | 20382 | Jan. 31/76 | Diana Explorations Ltd. (N.P.L.) |
| GOLD ROCK No. 1 | 20381 | " | " |
| GOLD ROCK No. 3 | 20380 | " | " |
| BIG BEN Fraction | 20445 | Feb. 19/76 | George O'Brien |

HISTORY - PREVIOUS DEVELOPMENT - REFERENCES

The present claim group is part of the south part of the former King Midas No. 1 property which was staked in 1926.

Records show the King Midas property shipped one ton of ore. It contained five ounces of gold and one ounce of silver. This production was reported from narrow gold-quartz veins carrying chalcopryrite and pyrrhotite.

Adits on separate veins are reported on the King Midas property. On one of these, the Main Vein, a 16-foot winze is reported and lateral development totalling 187 feet. Some of the workings described by H. C. Gunning on the Marks property in G.S.C. Summary Report 1932, Part A II, pages 39-42, probably occur just north of the present claim group.

During the period 1926 - 1948, thirteen lode-gold vein type mines in the Zeballos Camp produced a total of 287,811 ounces of gold.

Placer gold in the Zeballos River is mentioned in G.S.C. Summary Report 1932, Part A II.

The following publications have information pertinent to the claim group:

1. Annual Report of the Minister of Mines, B. C., 1938, Part F, page 53;
2. Annual Report of the Minister of Mines, B. C., 1932, page 205;
3. Geological Survey of Canada Memoir 272, pages 42, 47, 59;
4. Geological Survey of Canada Summary Report 1932, Part A II, pages 36-47;
5. Geological Survey of Canada Map 1028A, Scale 1 inch = 1 mile;
6. Geological Survey of Canada Paper 74-8, page 58;
7. Geophysical Assessment Report on the BIG BEN, YOUCO and GOLD ROCK Mineral Claims by Donald W. Tully, P.Eng., February 15, 1975.

GEOLOGICAL SETTING

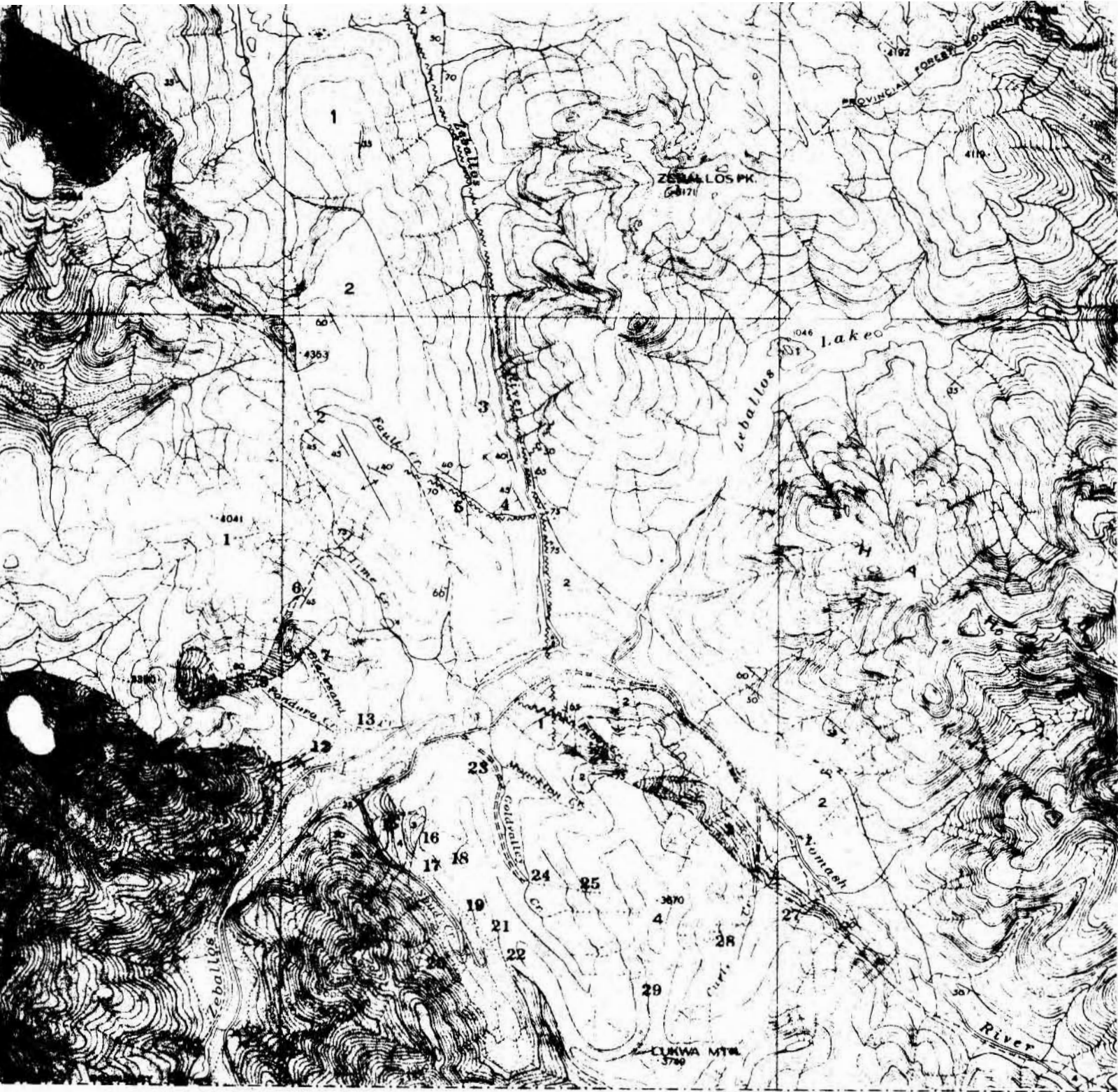
Karmutsen volcanics, mostly basaltic in nature, occupy the west part of the claims.

East of the Zeballos River, Quatsino limestone occurs with minor horizons of intercalated volcanics.

Just south of the claim group a large mass of Coast Intrusion, consisting of quartz monzonite and diorite, trends northwest through the region.

A table of formations is as follows:

| | |
|---------------------|---|
| JURASSIC/CRETACEOUS | - Quartz monzonite and diorite (Coast Intrusion) |
| UPPER TRIASSIC | - Quatsino limestone |
| | - Karmutsen volcanics |



50'

45'

5765

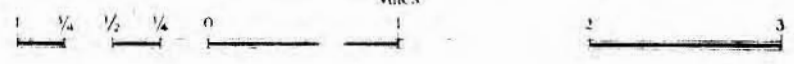
WOSS LAKE

M4

VANCOUVER ISLAND
BRITISH COLUMBIA

Scale: One Inch to One Mile = $\frac{1}{63,360}$
Miles

Donald W. Kelly



Structurally the Karmutsen trends northwest and dips southward.

The Quatsino strikes northerly and dips westward.

A north-south trending fault, postulated in the valley of the Zeballos River, appears to mark the contact between the Karmutsen and the Quatsino formations. Shearing along the Woss - Zeballos road on the claim group substantiates this conclusion.

MINERALIZATION

Most of the mineralization is probably related to phases of the Coast Intrusion complex in association with the Karmutsen volcanics.

The strike of the gold-bearing veins in the Zeballos area is generally northwest tangential to the main north-south fault along the Zeballos River valley.

There is no known mineralization on the claim group.

MAGNETOMETER SURVEY

The magnetometer survey was conducted during the period December 17, 18, 19, 20 and 21, 1975, by J. Hunyadi and the writer.

CONTROL:

Survey control was established by compass and chain. A baseline was run true east-west across the southern end of the

property and stations established at 50 meter intervals. Lines were run true north-south by compass and chain from the baseline and stations established at 50 meter intervals along the lines. The stations were marked by flagging and magnetometer readings taken at each. Tie-in was made for each north-south line at the baseline and adjusted accordingly on the survey grid plotted on the plan on scale 1 cm = 25 meters accompanying this report.

Magnetic variation is about 23 degrees east of north in the Zeballos area.

INSTRUMENT AND METHOD:

The magnetometer used was a Coni-Mag instrument, Model G1, Serial No. 00105, rented from Coniagas Research Inc., Suite 1001, 11 Adelaide Street West, Toronto, Ontario, M5H 1L9.

This instrument is a digital reading, self-leveling and self-orienting in the plane of the magnetic meridian and reads in total magnetic intensity of the earth's magnetic field.

Readings were taken at each 50 meter interval over the control grid with the operator positioned facing west at each station.

Base station tie-in readings were taken at the close of each traverse. Readings were also taken at zero on the baseline at the beginning and end of each survey-day and the adjusted figures plotted on the plan accompanying this report.

RESULTS AND INTERPRETATION:

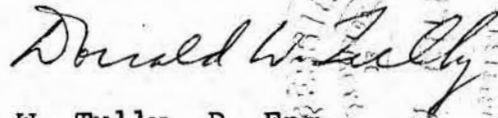
The total magnetic relief over the survey area was 1240 gammas.

Magnetic intensity tends to increase towards the south end of the property.

A distinctive linear magnetic low traverses slightly north of west across claims 20445, 20378, 20382, in the valley of the Zeballos River. A study of the magnetics and the geological plan G.S.C. 1028A suggests this anomalous linear low is a reflection of a major fault zone which may dip steeply to the east. There is another magnetic low branching southeastward from this north-northwest anomaly in the area of the common boundary of claims 20378 and 20382.

A magnetic low of a lineal nature trends slightly north of west along the east boundary of the claim group at claims 20379 and 20380.

Respectfully submitted,



Donald W. Tully

Donald W. Tully, P. Eng.

January 15, 1976

I, DONALD WILLIAM TULLY, MAKE OATH AND SAY as follows that, on the dates herein specified, I incurred the following costs during the survey and compilation of the work on the BIG BEN Fraction, YAUCO No. 2, 4, Fraction and GOLD ROCK No. 1, 3, Fraction mineral claims.

TIME - COST DISTRIBUTION

| | | | |
|------------------|---|--|----------------------------|
| Dec. 17-21, 1975 | - | D. W. Tully & J. Hunyadi - field work, grid layout and magnetometer readings | \$ 800.00 |
| Dec. 17-21, 1975 | - | Magnetometer rental costs | 193.15 |
| Dec. 17-21, 1975 | - | Field supplies, travel and accommodation | 294.28 |
| Jan. 15, 1976 | - | Report and map preparation | <u>450.00</u> |
| | | TOTAL..... | <u>\$1,737.43</u> ===== |

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act".

DECLARED before me at the City)
of Vancouver, in the Province)
of British Columbia, this 19)
day of January, 1976.)

S. Jeanotte
Sub-Mining Recorder)

Donald W. Tully
DONALD WILLIAM TULLY

CERTIFICATE

I, DONALD WILLIAM TULLY, of the Municipality of West Vancouver, in the Province of British Columbia, hereby certify as follows:

1. I am a Consulting Geologist with an office at Suite 102, 2222 Bellevue Avenue, West Vancouver, British Columbia.
2. I am a registered Professional Engineer in the Provinces of British Columbia and Ontario.
3. I graduated with a degree of Bachelor of Science, Honours Geology, from McGill University in 1943.
4. I have practiced my profession for thirty years.
5. I have no direct, indirect or contingent interest in the claims located in the Alberni Mining Division, Vancouver Island, British Columbia, nor in the securities of DIANA EXPLORATIONS LTD. (N.P.L.), nor do I intend to receive any interest.
6. This report dated January 15, 1976, is based on a personal knowledge of the area from field work over the property on December 17, 18, 19, 20 and 21, 1975, with Mr. J. Hunyadi.

DATED at West Vancouver, British Columbia, this 15th day of January, 1976.

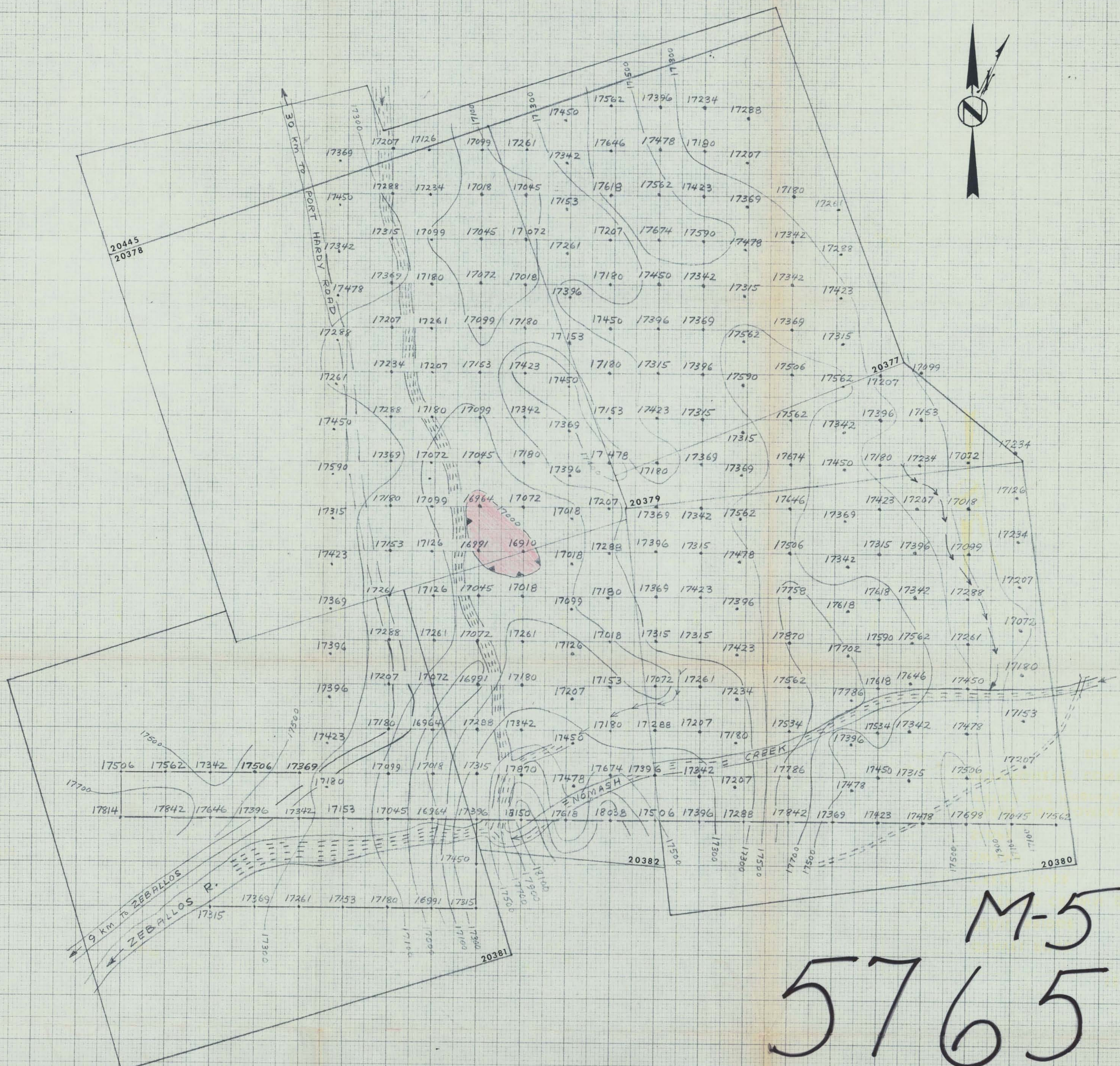
Donald W. Tully

Donald W. Tully, P.Eng.
Consulting Geologist

400 W 350 300 250 200 150 100 50 W 0 50 E 100 150 200 250 300 350 400 450 500 550 600 650 E



800 N
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50 N
BASELINE
50 S
100



LEGEND

- GRAVEL ROAD
- TRAIL, BRIDGE
- 20380 REVERTED CROWN GRANTED CLAIM
- CREEK, RIVER
- SWAMP
- 17180 SLOPE
- 17180 CHAIN AND COMPASS SURVEY LINE station and magnetometer reading
- 17100 ISOMAGNETIC CONTOUR LINE, INTERVAL 200 GAMMAS
- " DEPRESSION CONTOUR

DIANA EXPLORATIONS LTD.
N.P.L.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

PLAN OF
MAGNETOMETER SURVEY NO. 5765 MAP 5
AND READINGS

BIG BEN, YAUCO & GOLD ROCK CLAIMS
PORT ALBERNI M. D.
ZEBALLOS, B.C.

JANUARY 15, 1976

SCALE: 1cm = 25m
DONALD W. TULLY, P.ENG. *Donald W. Tully*