Prospecting and Sampling Report on the MEAD Claim Nanaimo Mining Division

NTS 92-L-12

50°41'N

127°48'W

September, 1984

D. B. Petersen

Owner:

E. Alionis

Operator: Daiwan Engineering Ltd.

GEOLOGICAL BRANCH ASSESSMENT REPORT

12,852

Table of Contents

		Page
1.	Introduction	1,
2.	Location and Access	1,
3.	Topography and Vegetation	1,
4.	Local Geology	1/
5.	Claim Geology	4,
6.	Previous Work Done	4,
7.	Work Done in 1984	5 /
8.	Results of Work Done in 1984	5,
9.	Discussion	6,
10.	Conclusions	7 /
11.	Recommendations	7 /
12.	Cost Statement	7/
13.	Title	8 /
14.	References	9 /
15.	Affidavit	10 ,
APPENDIX I	Analyses	
	Illustrations	
Figure 1 -	"Location Map"	2 /
Figure 2 -	"Preliminary Geological Map"	3 /
Figure 3 -	"Compilation Map"	In Pocket /

1. Introduction

This report describes the work that was done on the area now covered by the MEAD claim prior to 1984, and the work that was performed in July and August, 1984.

The report is being submitted as an assessment report to cover 3 years of work.

Location and Access

The MEAD claim is located immediately South of the East end of Nahwitti Lake, 29km West of Port Hardy. NTS is 92-L-12. Geographic co-ordinates are 50°41'N 127°48'W. See Fig. 1, "Location Map".

Access is by gravel road that leads from Port Hardy to Holberg and by logging roads and trails that branch Southwards through the property.

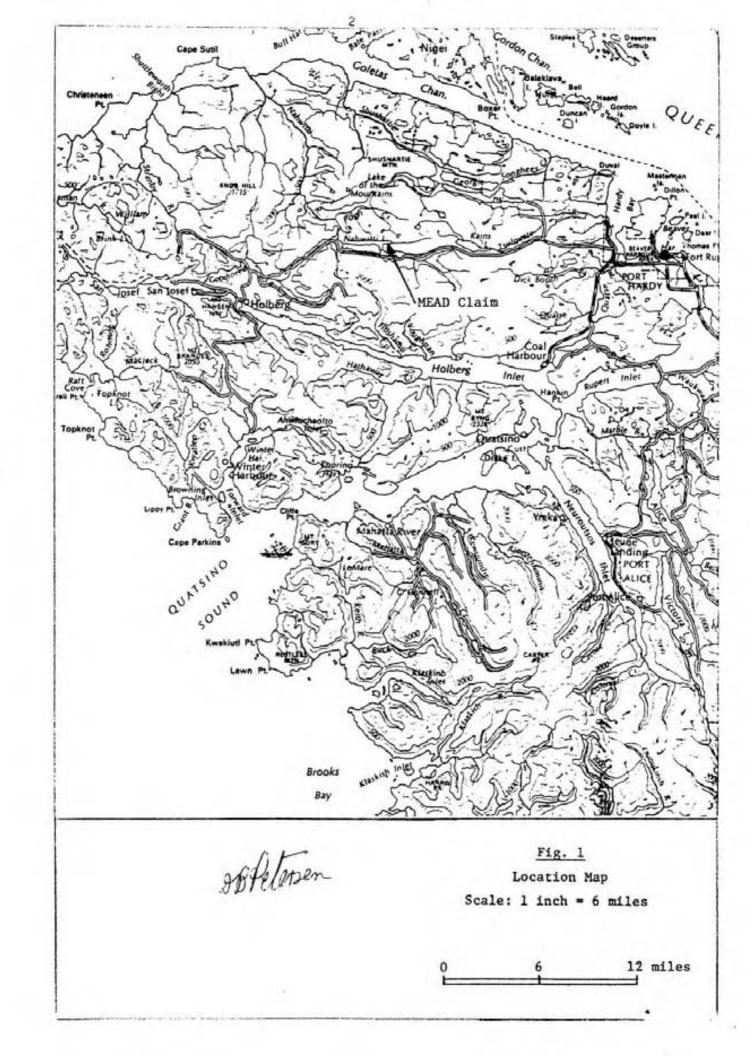
Topography and Vegetation

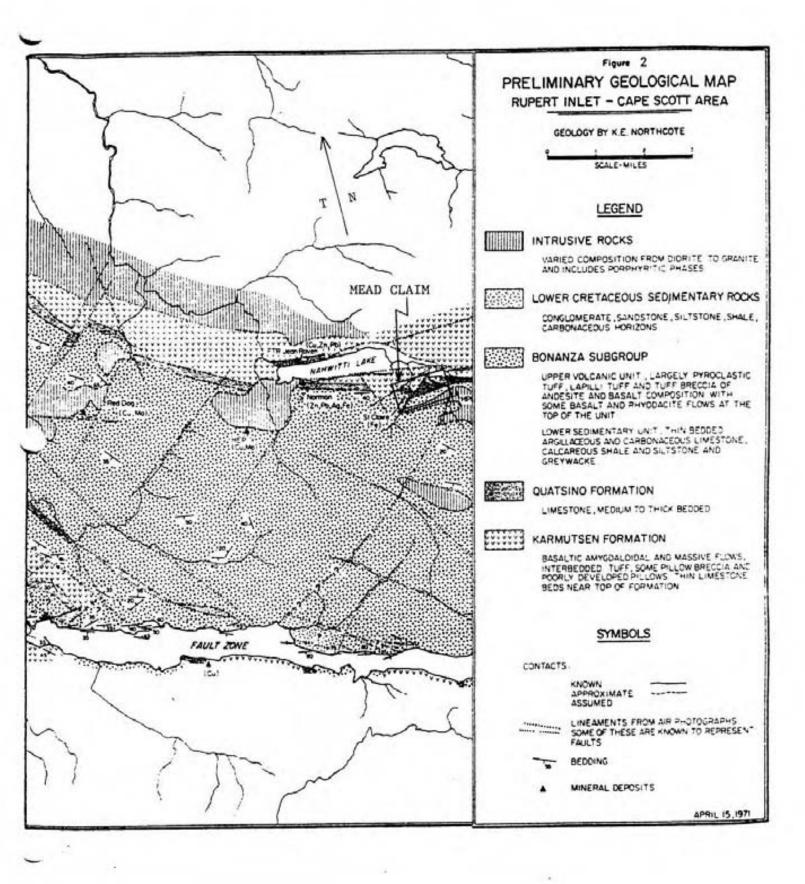
The claim is underlain by two moderately steep hills. Elevations vary between 200m and 550m.

Stands of cedar cover the claim except in the Western part where logging has taken place.

4. Local Geology

The Nahwitti Lake region has been mapped by Northcote (1970). The area is underlain by volcanics and sediments of the Upper Triassic to Jurassic Vancouver Group. These rocks are intruded by late Jurassic to Tertiary quartz-diorites and andesitic sills and dykes. See Fig. 2, "Preliminary Geological Map".





Local Geology (Cont'd)

Northcote divides the Vancouver Group as follows:

Bonanza Sub-Group: andesitic flows and breccias, felsitic tuffs,

greywacke, shale, argillaceous and calcareous

shales, and argillaceous limestone.

Quatsino Formation:

limestone.

Karmutsen Formation:

massive to amygdaloidal flows, breccias, pillow

lavas and tuffs of andesitic to basaltic com-

position, thin limestone beds.

There is extensive block faulting in the area, and lack of exposure of rocks makes the tracing of units difficult.

Claim Geology

Mapping by Rote (1973) and Philp (1980) showed that exposures are virtually confined to creek beds and cuts on logging roads.

The rocks consist of Karmutsen and Bonanza volcanics and intervening

Quatsino limestones. Skarn zones which are garnet and/or magnetite bearing
occur in proximity to diorite intrusives of the Coast Complex.

6. Previous Work Done

According to Morgan (1979), the earliest documented work was in the 1930's when the H.P.H. claim was staked to cover mineralization to the East of the MEAD claim. Several mining companies conducted geological mapping, shaft sinking, and Giant Explorations carried out a geochemical survey, geological mapping magnetometry, E.M. and diamond drilling over its holdings covering same 8km of strike length South of Nahwitti Lake. Results of the diamond drilling are not available.

7. Work Done in 1984

Work done in 1984 included prospecting the logging trails and the creeks for mineralization, and chip sampling the mineralized areas.

R. Philp, P. Eng., (23 July) made a technical assessment of the property, Z. Philp (23 July) and M. Mora (23 July) spent 2 man-days prospecting the claim for sulphide mineralization under the direct supervision of R. Philp. D. Petersen (13 August) and E. Alionis (13 August) spent 2 man-days chip sampling the mineralized zones.

The mineralized zones and sample locations are shown plotted on Fig. 3 "Compilation Map". The results of the sampling are shown in Section 8, below.

The chip sampling was performed by the writer and by E. Alionis, who used a chisel and hammer to take acorn-sized chips spaced 10cm apart. The numbered samples were sent to Acme Analytical Labs in Vancouver for analysis for Ag, As, Cu, Pb, and Zn by means of I.C.P. analysis. Au analysis was done by A.A.

8. Results of Work Done in 1984

The results of the chip sampling are shown below:

Sample No.	Length m	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb
8426558	Skarn float	2647	87	664	26.0	83	90
8426559	8.5	744	39	288	5.3	26	25
8426660	3.4	239	3	52	.6	2	5

8. Results of Work Done in 1984 (Cont'd)

No.	Length	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb
8426661	1.5	3459	17	4656	.9	152	5
8426662	7.7	142	1	26	.1	17	5
8426663	8.0	71	4	51	.1	21	5
8426664	0.25	2827	21	116	3.7	62	5
8426665	5.0	442	1	509	.1	14	5

9. Discussion

The results show that the highest mineral values (samples 558, 661 and 664) are present in skarns and that the latter two samples are close to the Pb and Zn geochemical anomaly outlined in the report by Rote (1973). See Fig. 3, "Compilation Map".

This survey was conducted by Giant Explorations over a grid that measured 2200 feet East-West by 1500 feet North-South. North-South lines were spaced 200 feet apart with sample spacing of 100 feet along the lines. The samples were analyzed for lead and zinc. The results show that a coincident lead and zinc anomaly is present that strikes approximately East-West and is open on both ends of the grid. Copper values over the anomaly were spotty. The lead anomaly is some 200 feet (60m) wide with values varying between 40 and 310ppm Pb. Background values appear to be less than 30ppm. A high incidence of samples outside the anomaly were not analyzed because of the presence of organic material. Magnetometry over the grid showed little to no relief. Geological mapping showed the area to be underlain by sparse, small outcrops of limestone (Rote, 1973).

10. Conclusions

As a result of the 1984 programme and study of reports, it is concluded that:

- the best potential for mineralization on the claim appears to be in the skarn zones.
- a previous geochemical survey outlined a consistent lead and zinc anomaly in an area of general overburden cover.

11. Recommendations

It is recommended that a detailed geochemical survey be run in the area of the lead and zinc anomaly, with extension to the West.

12. Cost Statement

The following costs were incurred in the 1984 programme:

Labour			
R. Philp	23 July	1 day @ \$ 350	
Z. Philp	23 July	1 day @ \$ 115	
M. Mora	23 July	1 day @ \$ 115	
D. Petersen	13 August	1 day @ \$ 250	
E. Alionis	13 August	1 day @ \$ 115	\$ 945
Transport			
Truck rental	2 days @ \$ 40	\$ 80	
Gasoline		28	
Travel		662	770
Meals and Accomm	odation		299
Supplies			37
Analyses	8@\$9		72

12. Cost Statement (Cont'd)

Reporting

D. Petersen	*	2 days @ \$ 250	\$ 500	
Typing		2 hrs. @ \$ 15	30	
Printing			15	\$ 545
				\$ 2,668

13. Title

Particulars of the MEAD claim are as follows:

Name of Claim	No. of Units	Record No.	Date of Record
MEAD	8	1521	17 August, 1983

osfetenen

14. References

Morgan, D.R., 1979, A Geological Report on the BIG JOE Claim Group.

Northcote, K.E., 1970, Rupert Inlet - Cape Scott Map Area; G.E.M.

p. 254-258.

Philp, R.H.D., 1980, Geological Report on the PATO Claim (8 units).

Rote, I.S., 1973, Geophysical, Geochemical and Geological Report on the

TAXI 1 Group; B.C.D.M. Assessment Report #4472.

DOMINION OF CANADA:

PROVINCE OF BRITISH COLUMBIA.

TO WIT:

In the Matter of the prospecting and rock sampling survey conducted on the MEAD claim.

I. David B. Petersen,

of Daiwan Engineering Ltd., #1010 - 409 Granville Street, Vancouver, B. C. V6C 1W9 in the Province of British Columbia, do solemnly declare that the following personnel were employed and costs incurred in conducting the survey:

PERSONNEL

R. Philp - Geologist	1 day @ \$ 350		
Z. Philp - Prospector	1 day @ \$ 115		
M. Mora - Prospector	1 day @ \$ 115		1.27
D. Petersen - Geologist	1 day @ \$ 250		
E. Alionis - Helper	1 day @ \$ 115		\$ 945
	(20%)		
FIELD COSTS			
Truck Rental	\$. 80	0.50	
Gasoline	28	¥1	
Travel	662		
Meals and Accommodation	299		
Supplies	37		
Analyses '	72		1,178
		•	
		7 *	
REPORTING		91	
SAUSE CONTRACTOR OF THE SAUSE			
Labour and Drafting	\$ 500		3.5 G
Typing	30		
Printing	15		545
		TOTAL	\$ 2,668

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

of

Koweswell, in the

Province of British Columbia, this

leloler 1984.0.

day of

L. Britt Calmating

DB. Petersen

A Commissioner for Lating Affidavity for British Columbia of A Notary Public in and for the Province of British Columbia.

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APPENDIX I

ACME ANALYTICAL LABORATORIES LTD. 852 E.HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

AUG 14 1984 DATE RECEIVED:

ANALYSTS

PAGE

GEOCHEMICAL ICP

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HM03-H20 AT 95 DEG. C FOR DNE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.MA.K.M.SI.ZR.CE.SM.Y.MB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1-6 SOIL P7-80IL 1-ROCK

A DEAN TOYE. CERTIFIED B.C. ASSAYER ASSAYER:

119

STD S-1/AU-0.5

112

180

32.0

115

510

