

DOLMAGE CAMPBELL & ASSOCIATES (1975) LTD.

CONSULTING GEOLOGICAL & MINING ENGINEERS

1000-1055 WEST HASTINGS STREET
VANCOUVER, CANADA V6E 2E9

GEOLOGICAL, GEOPHYSICAL AND DRILLING REPORT

on the

PATHFINDER CLAIM GROUP

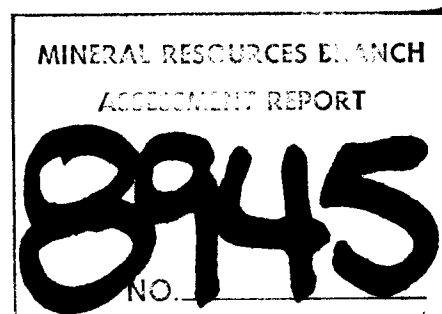
in the
Grand Forks Area, B.C.

GREENWOOD MINING DIVISION
Map Sheet: NTS 82E/1W 1/2
(49° 12'N, 118° 25'W)

Owner of Claims
CONSOLIDATED BOUNDARY EXPLORATION LIMITED

Operator
ARIES RESOURCES INC.

Authors
G.M. Keyte
C.R. Saunders



15 December, 1980

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CONSULTING GEOLOGICAL & MINING ENGINEERS

1000-1055 WEST HASTINGS STREET

VANCOUVER, CANADA V6E 2E9

INTRODUCTION

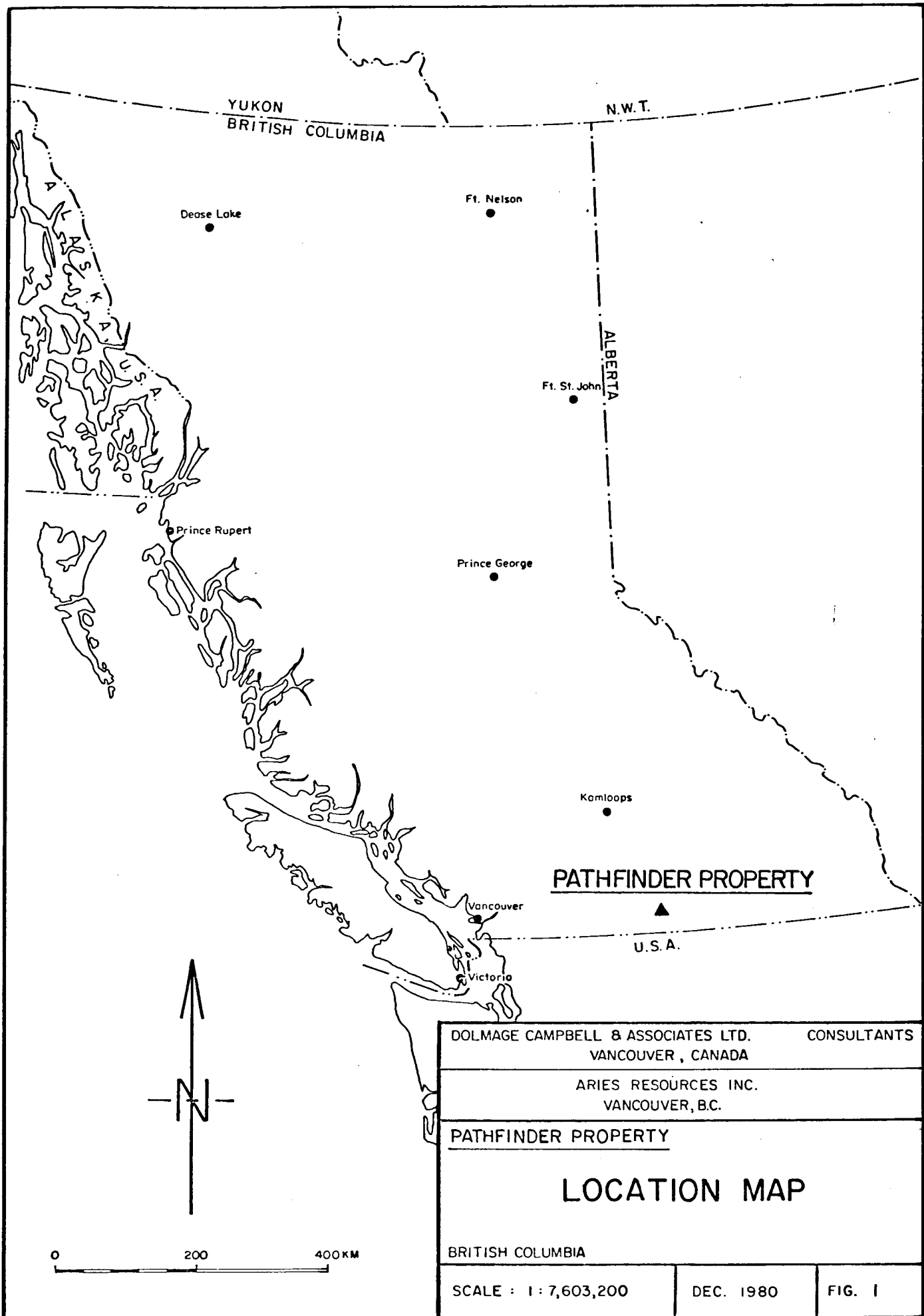
LOCATION (Fig. 1)

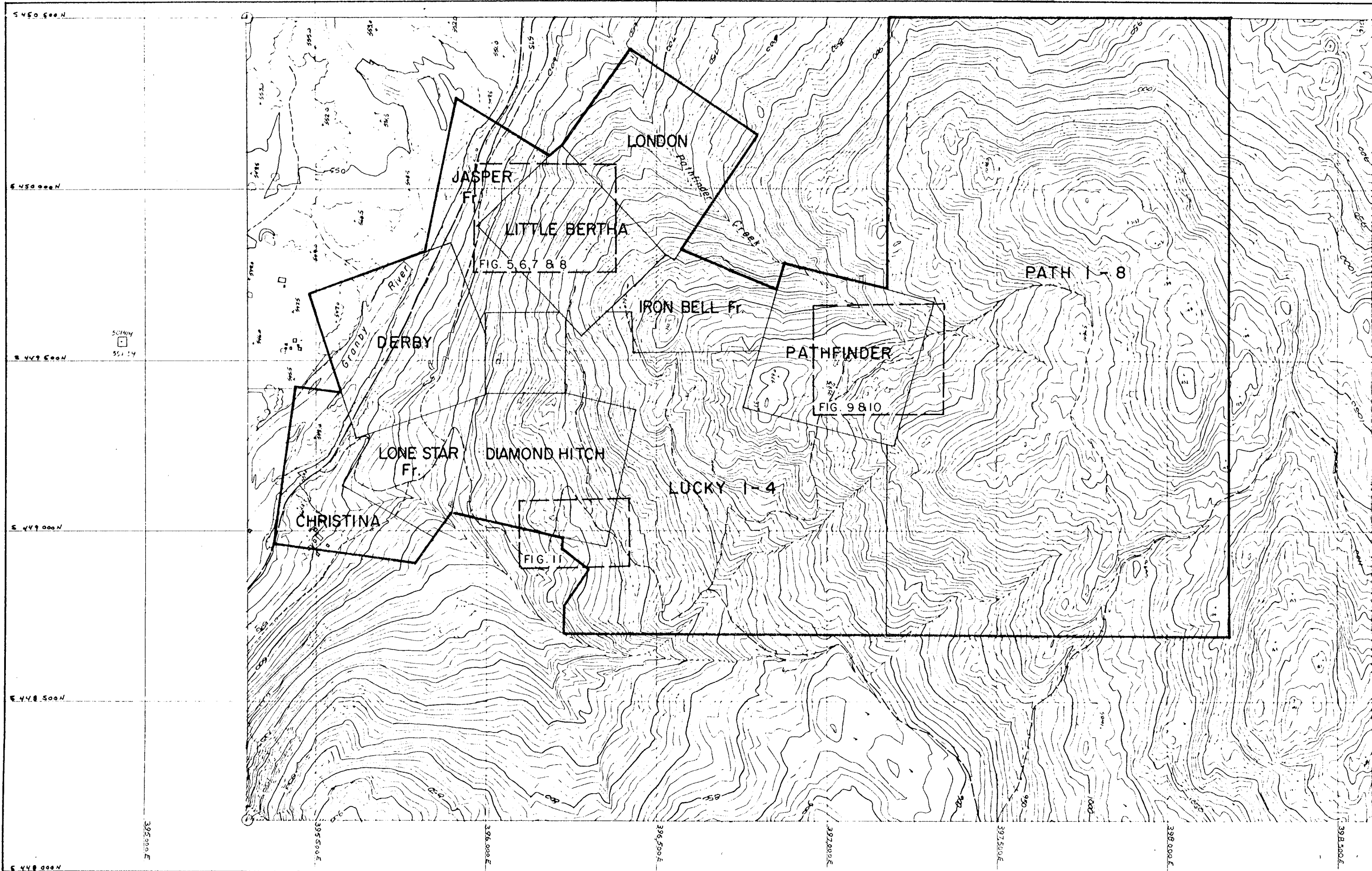
The claims are located 20 kilometres north of Grand Forks, adjacent and to the east of the 'North Fork' highway. They occupy the west-facing slope of the Granby River Valley between elevations of 550 and 1140 metres, as well as some of the plateau to the east, (Fig. 2). The claims are readily accessible by bush roads, built and maintained for exploration, logging and ranching.

PROPERTY (Fig. 2)

The property comprises the following nine reverted Crown granted claims and twelve staked claims:

<u>Claim</u>	<u>Area (ha)</u>	<u>Record No.</u>
<u>Reverted Crown Granted Claims</u>		
Pathfinder	20.91	222
Little Bertha	15.26	1411
London	18.70	1412
Iron Bell Fr.	11.14	1413
Jasper Fr.	11.40	1417
Lone Star Fr.	9.76	1418
Christina	11.28	1419
Derby	20.36	1420
Diamond Hitch	18.58	1422
	<u>137.39 ha.</u>	
<u>Staked Claims</u>		
Lucky #1	20.5	2054
Lucky #2	20.5	2055
Lucky #3	20.5	2056
Lucky #4	20.5	2057
Path #1	20.5	2046
Path #2	20.5	2047
Path #3	20.5	2048





MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8945
NO.



0 600METRES

DOLMAGE CAMPBELL & ASSOCIATES LTD. CONSULTANTS VANCOUVER, CANADA	
ARIES RESOURCES INC. VANCOUVER, B.C.	
PATHFINDER PROPERTY	
INDEX AND CLAIM MAP	
SCALE 1:10,000	DEC. 1980
	FIG. 2

Path #4	20.5	2049
Path #5	20.5	2050
Path #6	20.5	2051
Path #7	20.5	2052
Path #8	20.5	2053
	<u>246.0</u>	ha

Approximate area of all claims is 383 hectares.

HISTORY

The earliest record of work on the property is in 1895; between then and 1920, shipments of ore were made from the Pathfinder claim and the Little Bertha claim. Approximately, 239 tonnes (264 tons) assaying 3.08 gms/tonne (0.09 oz./ton) gold, 16.80 gms/tonne (0.50 oz./ton) silver and 0.97% copper were mined from the Pathfinder; 904 tonnes (996 tons) assaying 14.74 gms/tonne (0.43 oz./ton) gold and 133.71 gms/tonne (3.9 oz./ton) silver came from the Little Bertha. In subsequent years more exploration in the form of adits, pits and trenches, was done on several areas of the property but without success.

During the 1960's, Alwin Mining Co. Ltd. carried out some work on the property. They did bulldozer trenching, opened some of the old workings, and drilled several core holes. The amount of drilling is not known but it is reported that about twelve holes were drilled, mostly on the Little Bertha claim.

No further significant work was done until 1980 when Aries Resources Inc. optioned the property from Consolidated Boundary Exploration Ltd. and undertook exploration in light of recent, higher prices for gold and silver.

WORK DONE - 1980

In the summer of 1980, Aries Resources Inc. conducted exploration on the pathfinder property for targets considered to be relatively small veins and massive sulphide pods that might carry good values in gold as well as some silver and copper. The exploration work consisted of establishing a flagged grid over about half of the property (135 ha) for geological mapping and geophysical survey control, establishing smaller grids on the Little Bertha and Pathfinder claims, doing geological mapping of surface exposures and accessible underground workings, completing a magnetometer survey, and drilling three core holes on the Pathfinder claim. A topographic map at a scale of 1:5000 based on air photo coverage was obtained and used as a base map for the general property work (geological mapping, magnetometer survey). The more detailed follow-up work was done at a scale of 1:500.

The work was conducted as part of a larger exploration project in the Boundary area and, consequently, was done in somewhat intermittent fashion during the 1980 exploration fieldseason.

The numbers applicable to each type of work done are listed below:

Topographic survey - contour map at a scale of 1:5000 for the entire property, made from air photo coverage made by McElhanney - 383+ ha.

Flagged grids - for geological and geophysical control.

Property	(1:5000)	- 15,000 m
Little Bertha	(1:500)	- 2,050 m
Pathfinder	(1:500)	- 2,100 m

Geological mapping

Property	(1:5000)	- 383 ha
Little Bertha	(1:500)	- 6 ha
Pathfinder	(1:500)	- 6 ha

Magnetometer survey

Property	(1:5000)	- 15,000 m
Little Bertha	(1:500)	- 2,050 m
Pathfinder	(1:500)	- 2,100 m

Diamond drilling - Little Bertha claim; three holes.

80-1	- 110° azimuth, -32° dip,	60.4 m
80-2	- 110° azimuth, - 5° dip,	123.2 m
80-3	- 110° azimuth, - 5° dip,	91.5 m
Total length		<u>275.1 m</u>

Rock samples - surface - 20
drill core - 6

The fieldwork was conducted by G.M. Keyte under the direction of C.R. Saunders, P.Eng. Field assistance for establishing the grids, doing the geophysical surveys, and generally assisting the project geologist was provided by D. Hairsine and I. Wiebe. The diamond drilling was done by Bergeron Drilling and Exploration Ltd. employing a BBS-1 rig and BQ size down-hole equipment.

PROPERTY GEOLOGY

Three map units have been distinguished on the Pathfinder property (Fig. 3). From oldest to youngest they are:

- Unit 1 - Sedimentary and volcanic rocks of the Anarchist Group.
- Unit 2 - Quartz diorite intrusive complex, Nelson Intrusions.
- Unit 3 - Feldspar porphyritic monzonite, Coryell Intrusions.

Map Unit 2 contains many fine grained dacites and andesites which grade into diorite and quartz diorite. It is believed from the field relationships that most of these are fine grained members of the Unit 2 intrusive complex. However it is impossible to distinguish these rocks from true lavas and tuffs and as a result rocks which property belong to Unit 1 may have been included in Unit 2.

UNIT 1

The cherts of this unit are strongly weathered in outcrop due to a consistent content of 2 to 5% pyrite. They are very well bedded, but it is impossible to make any other textural observations without fresh rock exposures. The beds strike uniformly at 100° to 110° and dip steeply to the north. They are associated with andesites which are also pyritic.

The dacites and andesites on the property commonly display white feldspar phenocrysts 1 to 2 mm in size as well as occasional hornblendes. Although the groundmass is often very fine they frequently display heavy chlorite and epidote alteration.

UNIT 2

The quartz diorite complex underlies 80% of the property as a large number of small intrusive bodies. The individual rock types represented include quartz diorite, granodiorite, alaskite, diorite, dacite, andesite and rhyodacite. The rocks vary greatly in appearance, they range from fine to medium grain size and from unaltered to very altered.

On the Little Bertha claim an individual body of granodiorite may be traced over an area of 200 m by 300 m, but this is rare. In general the rock type varies from outcrop to outcrop, contacts presumably being gradational, with the finer grained rocks usually showing a much heavier chlorite-epidote alteration. Evidence for a sill-like shape to many of these small bodies comes from the fact that the boundaries of the chert of Unit 1 are subparallel to its bedding. It may also be assumed from the extreme variation in the degree of alteration of rocks in the unit that later bodies brought about contact alteration of earlier intrusions.

Brownish-white pyritic quartzite found in the Little Bertha No. 3 Adit and at various other localities on the Pathfinder and Little Bertha claims is assumed by evidence of its gradational contacts to be the product of intense silicification of dacitic and dioritic rocks of this unit.

UNIT 3

This unit primarily consists of medium grained monzonite. It contains both white and pink feldspars, one of which is usually porphyritic, 0-3% quartz, a small amount of hornblende, and some magnetite. Rocks containing only pink feldspar were mapped as syenite; fine grained pink equivalents as trachyte.

Rocks of this unit are uniform in appearance and unaltered. They may be distinguished from Unit 2 by the presence of two feldspars, little or no quartz and a much lower mafic content. The contacts of Unit 3 with Unit 2 are sharp and lobate in shape.

Unit 3 would appear to represent a different differentiation series, lower in quartz and higher in alkali metals, than Unit 2.

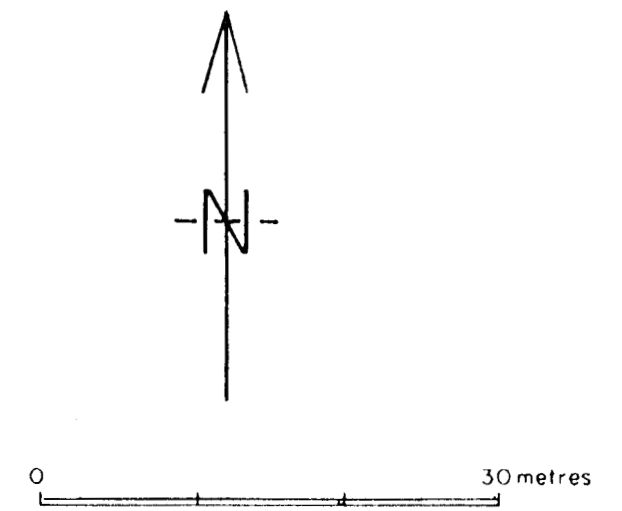
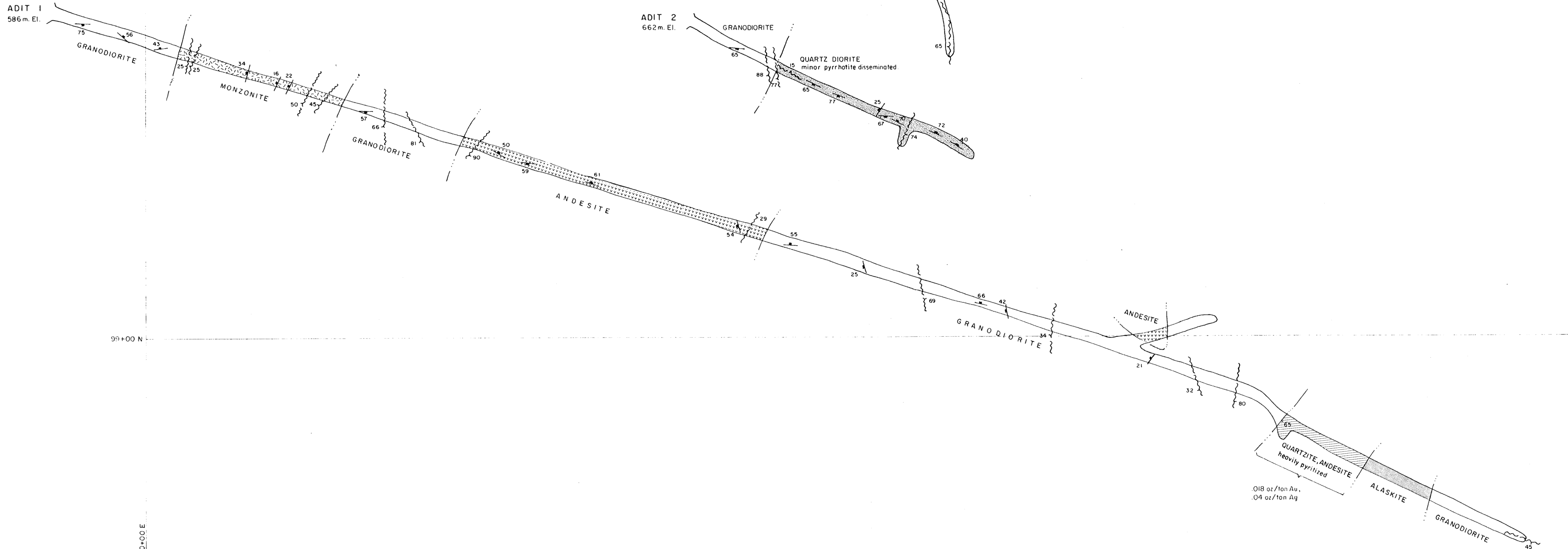
STRUCTURE

Faulting was observed only around the showings and in the adits and is described elsewhere in the report under those headings.

MAGNETOMETER SURVEY

A magnetometer survey was run over the entire grid with a Scintrex MP-2 Portable Proton Precession Magnetometer reading total field, (Fig. 4). The results were corrected for diurnal change by checking in to the base line; any correction less than 20 gammas was ignored. The results were contoured.

Almost no correlation is evident between the magnetometer anomalies and the geology of the property. This is understandable in light of the quite varied nature of the geology and the small size of the known mineral occurrences. However, it should be noted that the magnetism on the property shows a tendency to align along 110° - 120° which is subparallel to the chert beds. This further supports the idea that the small intrusions of Unit 2 have a tendency to be sill-like in shape.



- LEGEND**
- GEOLOGICAL CONTACT
 - 65 FAULT WITH DIP OR STRIKE
 - 42 BEDDING

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DOLMAGE CAMPBELL & ASSOCIATES LTD. CONSULTANTS VANCOUVER, CANADA	
ARIES RESOURCES INC. VANCOUVER, B.C.	
PATHFINDER PROPERTY	
LITTLE BERTHA ADITS GEOLOGY	
SCALE 1:500	NOV. 1980
	FIG. 6

MINERAL SHOWINGS

All of the mineral showings on the property had previously been mined or explored; no new showings were located. Most of the workings are quite old (greater than 40 years) and consist of pits, trenches, adits and short shafts. Except for a few isolated small pits, all of the old workings and mineral showings occur in three areas: Little Bertha, Pathfinder and Diamond Hitch.

LITTLE BERTHA

Surface and Underground Geology

The 1966 Minister of Mines report states that by 1920, 996 tons (904 tonnes) of ore had been mined from the Little Bertha vein, assaying 0.43 oz./t (14.7 gms./tonne) Au and 3.9 oz./t (133.7 gms./tonne) Ag. The only place from which this could have come is a line of workings (glory hole stoping) trending 0° to 30° above the Little Bertha No. 1 Adit, (Fig. 5). Vein quartz with about 5% pyrite is present on the No. 1 Adit dump. It assays 0.67 oz./t Au and 6.9 oz./t Ag.

A vein-fault zone 1-2 metres wide with an attitude of $10^{\circ}/65^{\circ}$ E changing to $30^{\circ}/70^{\circ}$ E on the southern part of the vein occurs in the glory hole workings. This fault contains quartz and minor iron minerals (pyrite and hematite) and, while exhibiting good evidence of fracturing, showed no signs of wall alteration. The host rock is a fresh, pale grey, medium grained granodiorite.

Only two small dumps are present below this line of workings, but a large dump remains below the No. 1 Adit. Thus it seems likely that the ore was mined through to surface from a drift off the adit. No. 2 and No. 3 adits did not intersect any quartz vein material, but in any case No. 2 Adit would not have extended far enough to intersect a vein dipping east at 65° to 70° .

Nevertheless a system of faults is present in the adits that are sub-parallel to the vein, (Fig. 6). Faulting also occurs in other orientations.

Geophysical Survey

A magnetometer survey over the area at ten metre interval line spacing failed to reveal any continuous anomalies, (Fig. 7).

Diamond Drilling

Three diamond drill holes were drilled beneath the mined-out areas of the vein from two existing roads, (Fig. 8). All were continued well past the projection of the vein but no faulting or vein material was found in any of them. It is thus concluded that the Little Bertha vein was of good grade but of very limited extent.

It also should be noted that the rock types in the diamond drill holes exhibit good correlation with the surface geology. The granodiorite, dacite, pink feldspar porphyritic monzonite and white feldspar porphyritic monzonite may all be correlated with surface geology, implying a general north-south strike and moderate westerly dip for the contacts between these rock types. The andesite and diorite in drill hole 80-3 were not identifiable with rocks in outcrop but may have some relationship with units mapped in No. 3 Adit.

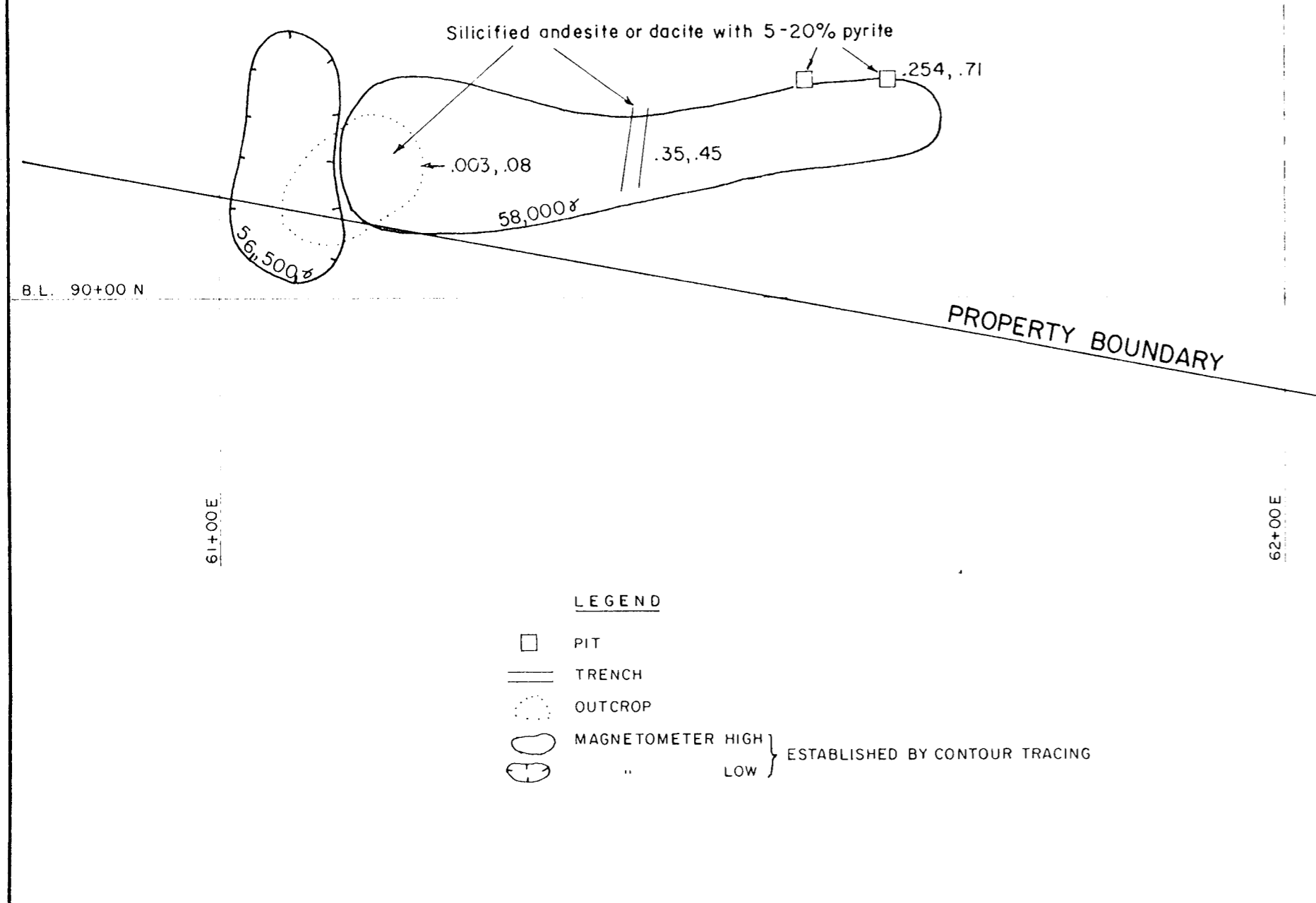
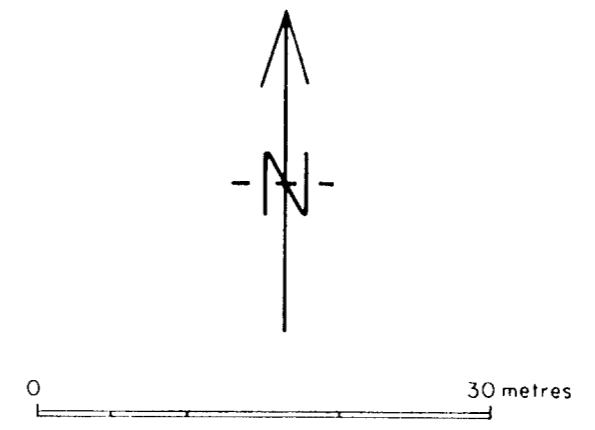
PATHFINDER

By 1905, 264 tons (239 tonnes) of ore averaging 0.09 oz./ton (3.08 gms./tonne) gold, 0.49 oz./ton (16.8 gms./tonne) silver, and 0.97% copper had been mined from the Pathfinder claim. Presumably it came from the Pathfinder shaft which is located in the mineralized area on the claim. Detailed geological mapping and a magnetometer survey, (Figs. 9, 10), were completed over the mineralized area. The results of these surveys indicate strong linear magnetic anomalies (lows and highs) associated with all of the known showings. These magnetic features do not occur as parallel zones and are not over 30 metres in length, thus suggesting that they represent erratically emplaced massive sulphide mineralization (pyrrhotite) such as is common elsewhere in the Boundary area. The possibility for continuity, and thus potential for appreciable tonnage, is quite remote with this type of mineral occurrence.

The surface showings all consist of massive pyrrhotite with minor quartz and chalcopyrite. The results of five assays taken in 1980 are as follows:

<u>Sample No.</u>	<u>Approx. Width (m)</u>	<u>Au (oz./t)</u>	<u>Ag (oz.t)</u>	<u>Cu (%)</u>
3225	2	0.034	0.25	0.52
3226	1-2	0.070	0.25	0.29
3227	1-1.5	0.028	0.22	0.95
3228	2	0.032	0.28	0.41
2329	1-2	0.030	0.50	0.65

Two of these zones were also located in the adit. One is essentially a barren fault for most of its strike length, opening out into a pod of massive pyrrhotite immediately below a surface pit.



Massive pyrrhotite
 .332, .17 minor quartz

- LEGEND**
- PIT
 - ==== TRENCH
 - OUTCROP
 - MAGNETOMETER HIGH } ESTABLISHED BY CONTOUR TRACING
 - " LOW }

MINERAL RESOURCES BRANCH
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8945
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DOLMAGE CAMPBELL & ASSOCIATES LTD CONSULTANTS VANCOUVER, CANADA		
ARIES RESOURCES INC. VANCOUVER, B.C.		
PATHFINDER PROPERTY		
DIAMOND HITCH SHOWING		
SCALE: 1:500	DEC. 1980	FIG. 11

It may be concluded that these showings are discontinuous and of no economic value.

DIAMOND HITCH

Between sections 61+00 E and 63+00 E and close to the baseline are several old pits in an area otherwise essentially devoid of rock outcrop (Fig. 11). Two pits, a trench, and one of the few natural rock exposures in the vicinity are aligned along an east-west trend between sections 61+00 E and 62+00 E. They consist of silicified andesite or dacite containing 5-20% pyrite. A small but high magnetometer anomaly is coincident with these exposures. Three samples were taken for which the gold assays are 0.003, 0.351 and 0.254 oz./ton.

A single pit near section 63+00 E and the baseline contains massive pyrrhotite and minor quartz; the mineralization and poor exposure mask the rock type. One sample assayed 0.332 oz./ton gold. Although this pit is on the same general trend as the group of exposures to the west, the nature of the mineralization in the Pathfinder area (massive but erratic and discontinuous pods of sulphides) preclude the assumption that it is on the same structure or mineralized body.

The possibilities for significant amounts of ore grade mineralization are remote for this area of the Pathfinder property. More likely there are a few hundred to perhaps a few thousand tonnes averaging 0.25 oz./tonne or less. Another detracting factor is the location of the mineralized exposures near the southern boundary of the property.

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VANCOUVER, CANADA V6E 2E9

CONCLUSIONS

Three areas of mineralization are present on the Pathfinder property, two comprising gold in massive sulphide pods, and one a vein-fault containing some quartz, pyrite and minor gold.

The vein-fault zone, the Little Bertha, has been proven by diamond drilling and by surface and underground geological mapping to have no lateral or down-dip economic potential.

On the Pathfinder claim, the gold mineralization occurs in erratically emplaced and discontinuous massive sulphide bodies with little potential for continuity or significant tonnage.

Mineralization on the Diamond Hitch claim is considered to be similar to that on the Pathfinder and thus the same conclusions apply.

Respectfully submitted,

DOLMAGE CAMPBELL & ASSOCIATES (1975) LTD.



C.R. Saunders, P.Eng.



EN G.M. Keyte

APPENDIX No. I

ASSAY CERTIFICATES

AND

SAMPLE RECORD



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: 984-0221
 AREA CODE: 604
 TELEX: 04-352597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

CERTIFICATE NO. 70075

TO: Dolmage Campbell & Associates Ltd.,
 Ste. 1000 - 1055 W. Hastings St.,
 Vancouver, B.C.
 V6E 2E9

INVOICE NO. 39297

RECEIVED Sept. 10/80

ATTN:

ANALYSED Oct. 2/80

SAMPLE NO. :	% Cu	% Zn	% W03	oz/ton Ag	oz/ton Au
3203				0.17	0.332
3204				0.22	0.180
3205				6.35	0.670
3206				0.42	0.030
3207				0.06	0.020
3208				0.62	0.056

B. L. Swales
 REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

CERTIFICATE NO. 70287

TO: Dolmage Campbell & Associates Ltd.,
Ste. 1000 - 1055 W. Hastings St.,
Vancouver, B.C.
V6E 2E9

INVOICE NO. 40023

RECEIVED Sept. 29/80

ANALYSED Oct. 29/80

ATTN:

SAMPLE NO. :	% Cu	% Pb	oz/ton Ag	oz/ton Au
3209			0.04	0.018



MEMBER
CANADIAN TESTING
ASSOCIATION

R. Swaites
REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TD : Dolmage Campbell & Associates Ltd.,
Ste. 1000 - 1055 W. Hastings St.,
Vancouver, B.C.
V6E 2E9

CERT. # : A8010800-001-A
INVOICE # : 40389
DATE : 12-NGV-80
P.O. # : NONE

Sample description	Prep code	Cu percent	Ag oz/t	Au oz/t			
3224	207	--	0.04	<0.003	--	--	--
3225	207	0.52	0.25	0.034	--	--	--
3226	207	0.29	0.25	0.070	--	--	--
3227	207	0.95	0.22	0.028	--	--	--
3228	207	0.41	0.28	0.032	--	--	--
3229	207	0.65	0.50	0.030	--	--	--
3230	207	--	0.23	0.012	--	--	--
3231	207	--	0.10	<0.003	--	--	--
3232	207	--	0.08	<0.003	--	--	--
3233	207	--	0.04	<0.003	--	--	--
3234	207	--	0.04	<0.003	--	--	--
3235	207	--	0.02	<0.003	--	--	--
3236	207	--	0.04	<0.003	--	--	--
3237	207	--	0.01	<0.003	--	--	--
3238	207	--	0.01	<0.003	--	--	--
3239	207	--	0.01	<0.003	--	--	--

W. Swaites

Registered Assayer, Province of British Columbia





CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TO : Dolmage Campbell & Associates Ltd.,
Ste. 1000 - 1055 W. Hastings St.,
Vancouver, B.C.
V6E 2E9

CERT. # : A8011049-001-A
INVOICE # : 41036
DATE : 09-DEC-80
P.C. # : NONE

Sample description	Prep code	Cu percent	Ni percent	Ag oz/t	Au oz/t		
--------------------	-----------	------------	------------	---------	---------	--	--

6928	207	--	--	0.71	0.254	--	--
6929	207	--	--	0.45	0.351	--	--
6930	207	--	--	0.08	0.003	--	--

H. Swaites

Registered Assayer, Province of British Columbia



MEMBER
CANADIAN TESTING
ASSOCIATION

SAMPLE RECORD - DOLMAGE CAMPBELL & ASSOCIATES LTD.

DATE Oct., Nov., 1980 COMPANY ARIES RESOURCES INC. PROJECT PATHFINDER PROPERTY

SAMPLE NUMBER	TYPE	LOCATION	FROM TO		DESCRIPTION	SAMPLE WIDTH	TRUE WIDTH	g/tm ASSAY		
								Ag	Au	Cu%
3203	G	6.L./63+00E	Diamond	Hitch	Mossine pyrrhotite, minor pyrite	2 m		0.17	0.332	
04	✓	89+00N, 64+00E				2 m		0.22	0.180	
05	✓	Main dump	Little	Bertha	Quartz and pyrite	-		6.35	0.670	
06	-	97+50N, 60+00E	Pathfinder		Quartz, pyrite and galena from dump	0.3 m		0.42	0.030	
07	✓	95+00N, 59+00E			Mossine pyrrhotite	3 m		0.06	0.020	
08	✓	93+50N, 60+00E	Little	Bertha	Quartz and galena	-		0.62	0.056	
09	✓	Lower adit	Pathfinder	392	Silicified, pyritized (5%) andesite	6 m		0.04	0.018	
3224	G	95+10N, 70+75E			Pyritized and silicified andesite	10 m		0.04	<0.003	
25	-	95+00N, 70+85E			Mossine pyrrhotite, some chalcopyrite	2 m		0.25	0.034	0.52
26	✓	94+95N, 70+95E				1-2 m		0.25	0.070	0.29
27	-	94+95N, 71+80E			Mossine pyrrhotite, some quartz	1-1.5 m		0.22	0.028	0.95
28	-	95+10N,				2 m		0.28	0.032	0.41
29	-	95+20N, 72+40E			Mossine pyrrhotite	1-2 m		0.50	0.030	0.65
3230	✓	95+20N, 72+40E			Quartz and pyrite	0.2 m		0.23	0.012	
31	✓	94+10N, 72+30E			Silicified, pyritized quartz diorite	2 m		0.10	<0.003	
32	✓	94+05N, 72+40E			Quartz diorite plus 5% pyrite	2 m		0.08	<0.003	
33	✓	95+00N, 79+00E			Diorite with 5% pyrite	-		0.04	<0.003	
3234	Co.	80-1	21.5	22.1	Chloritized granodiorite	0.6 m		0.04	<0.003	
35	✓	80-2	88.4	88.9		0.5 m		0.02	<0.003	
36	✓	-2	88.9	90.0	Andesite in granodiorite, 3% pyrite	1.1 m		0.04	<0.003	
37	✓	-2	90.0	91.1		1.1 m		0.01	<0.003	
38	✓	-2	91.1	92.2		1.1 m		0.01	<0.003	
39	✓	80-3	38.3	39.4	Chloritized granodiorite with pyrite	1.1 m		0.01	<0.003	
6928	G	90+20N, 61+70E	Diamond	Hitch	20% pyrrhotite in silicified diorite	1 m		0.71	0.254	
29	-	90+15N, 61+50E			Silicified diorite with 10% pyrrhotite	2 m		0.45	0.351	
30	✓	90+25N, 61+20E			Silicified diorite, 5% pyrrhotite	2 m		0.08	0.003	

APPENDIX No. II

DRILL HOLE LOGS

Aries Resources Inc.

(UTM)
 Coord. 99+68 N
 61+50 E
 Elev. 677 m
 Core Size BQ

DRILL RECORD — DOLMAGE, CAMPBELL & ASSOCIATES LTD.

Length: 60.4 m Project : PATHFINDER
 Azimuth: 110° Location: West of Little Bertha Workings
 Dip: -30° Purpose: Explore Little Bertha Vein

Hole No.: 80-1
 Date: Sept., 1980
 Logged By: G.K.

DEPTH (metres)		ROCK TYPE	DESCRIPTION	CORE LOSS		
FROM	TO			FROM	TO	LOST
0	2.4	CASING				
2.4	57.8	GRANODIORITE	Medium grey, hard, competent, medium grained (3 mm), poorly jointed. Usual mineralogy is white feldspar, quartz, hornblende and minor biotite. Some pink feldspar is present locally; some sections are poor in quartz. Minor chloritic alteration occurs along fractures, very minor pyrite occurs as patches, very minor quartz veining. (2.4 - 3.5) Very broken. (15.0 - 18.7) About 60% of this section is fine grained; minor disseminated pyrite.			
57.8	60.4	DACITE	Pale grey, hard, competent, very fine grained, porphyritic feldspar, poorly jointed. Contact sharp @ approximately 30°.			
	60.4	END OF HOLE				
Note: No significant veining or mineralization was intersected in this hole.						
<u>ASSAYS</u>						
	From	To	Width	Au (oz./ton)	Ag (oz./ton)	
	21.5	22.1	0.6	<0.003	0.04	

Project PATHFINDER
 Hole No. 80-1

Aries Resources Inc.

(UTM)
 Coord. 99+30 N
 61+05 E
 Elev. 665 m
 Core Size BQ

DRILL RECORD — DOLMAGE, CAMPBELL & ASSOCIATES LTD.
 Length: 123.2 Project : PATHFINDER
 Azimuth: 110° Location: West of Little Bertha Workings
 Dip: -50° Purpose: Explore Little Bertha Vein

Hole No.: 80-2
 Date: Sept., 1980
 Logged By: G.K.

DEPTH (metres)		ROCK TYPE	DESCRIPTION	CORE LOSS		
FROM	TO			FROM	TO	LOST
0	86.4	GRANODIORITE	<p>Medium grey, hard, competent, medium grained, occasionally fine grained, moderately well jointed. Usual mineralogy is white feldspar, quartz, hornblende and minor biotite. Occasional pink feldspar, some sections poor in quartz. Minor chloritic alteration along fractures, very minor pyrite as patches, very minor quartz veining.</p> <p>(0 - 2.3) Broken. (17.2 - 19.6) Fine grained, some disseminated pyrite. (71.2 - 71.9) Dacite dike, very fine grained, medium grey, hard; contacts sharp. (83.1 - 86.4) Increasing amounts of fine grained dacitic material, chloritization, some quartz invasion and patches of pyrite.</p>	55.6	56.1	0.5
86.4	99.8	DACITE	<p>Approximately 70% dacite, 30% granodiorite (as above). Medium grey, hard, competent, fine to medium grained, poorly jointed, minor chlorite and quartz veinlets, some disseminated pyrite and pyrrhotite. Contact with granodiorite poorly defined.</p>			
99.8	123.2	MONZONITE	<p>Pale greyish pink, fine to medium grained, porphyritic pink feldspar, hard, competent, poorly jointed, fresh, cut by minor dacite and granodiorite dykes. Both contacts sharp.</p> <p>(114.6 - 115.4) Medium green dacite dyke, very fine grained and hard. (115.9 - 116.5) Medium grained granodiorite dyke cut by chlorite and quartz veinlets, minor pyrite. (117.0 - 117.8) As 115.9-116.5.</p>			
	123.2	END OF HOLE	<p>Note: No significant veining or mineralization was intersected in this drill hole.</p>			
		ASSAYS				
		From	To	Length	Au (oz./ton)	Ag (oz./ton)
		88.4	92.2	3.8	<.003	0.02

Project PATHFINDER

Hole No. 80-2

Aries Resources Inc.

(UTM)
 Coord. 98-91 N
 60+92 E
 Elev. 662 m
 Core Size BQ

DRILL RECORD — DOLMAGE, CAMPBELL & ASSOCIATES LTD.

Length: 91.5 m Project : PATHFINDER
 Azimuth: 110° Location: West of Little Bertha Workings
 Dip: -5° Purpose: Explore Little Bertha Vein

Hole No.: 80-3
 Date: Sept., 1980
 Logged By: G.K.

DEPTH (metres)		ROCK TYPE	DESCRIPTION	CORE LOSS		
FROM	TO			FROM	TO	LOST
0	0.1	CASING				
0.1	22.6	GRANODIORITE	Medium grey, hard, competent, medium grained, poorly jointed. Contains white feldspar, quartz, hornblende, minor biotite, occasional minor pink feldspar. Quartz content variable. Minor chlorite and quartz as stringers, very minor pyrite as patches. (0.1 - 4.0) Very broken. (4.0 - 9.0) Broken.			
22.6	25.4	MONZONITE	Pale pinkish grey, hard, competent, fine grained, white feldspar porphyritic, poorly jointed, fresh. Contacts sharp.			
25.4	55.1	GRANODIORITE	As 0.1 - 22.6. (51.9 - 53.1) Monzonite as 22.6 - 25.4.			
55.1	64.0	ANDESITE	Dark grey, hard, competent, fine grained, poorly jointed. Pale feldspar and hornblende occasionally porphyritic, minor chloritic alteration.			
64.0	79.8	MONZONITE	Pale greyish pink, fine to medium grained, porphyritic pink feldspar; hard competent, poorly jointed, fresh. Contacts sharp. (78.7 - 79.8) Greyish green phase, porphyritic pink feldspar, hard.			
79.8	91.5	DIORITE	Dark grey, hard, competent, medium grained, poorly jointed, contains pale grey feldspar, hornblende and very minor quartz. Some chloritization as veinlets.			
	91.5	END OF HOLE				
			Note: No significant veining or mineralization was intersected in this drill hole.			
			ASSAYS			
		From	To	Width	Au (oz./ton)	Ag (oz./ton)
		38.3	39.4	1.1	<.003	0.01

Project PATHFINDER Hole No. 80-3

APPENDIX No. III

QUALIFICATIONS

OF

G.M. KEYTE

STATEMENT OF QUALIFICATIONS

GEOFFREY M. KEYTE

Citizenship - Canadian

Education - Bachelor of Science (Geology), Imperial College, London, England, 1969.

Experience - Field and project geologist for a number of companies, mostly in British Columbia; a partial listing follows:

1968 (Student) - Patino Mining Company, Spain; massive sulphides.

1969-1971 - Teacher, Malawi, Central Africa.

1973 - John S. Vincent Ltd., B.C.; nickel exploration.

1974 - Atled Exploration, B.C., work on gold, copper, lead-zinc properties.

1975 - Serem Ltd., N.W.T.; lead-zinc properties.

1977 - Teck Corp. Ltd., B.C.; coal.

1978-1979 - Tournigan Mining Explorations Ltd., B.C.; work on several properties, gold-silver vein type, volcanogenic copper; also lead, zinc, barite.

1979 - Dolmage Campbell & Assoc. Ltd., B.C.; coal.

APPENDIX No. IV

STATEMENT OF COSTS

STATEMENT OF COSTS - MARCH-DECEMBER, 1980WAGES

G. Keyte - Geologist	35 1/2 days @ \$225./day	\$7,987.50	
I. Wiebe - Helper	18 days @ \$ 80./day	1,440.00	
D. Hairsine - Helper	25 days @ \$ 75./day	<u>1,875.00</u>	\$11,300.

MAINTENANCE

40 man days @ \$36./man day		<u>1,440.00</u>	1,400.
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TRANSPORTATION

Blazer - 1 month @ \$338./month		338.00	
4 x 4 - 1 month @ \$875./month		<u>875.00</u>	1,200.

DRILLING, SITE PREPARATION

3 holes, 275.1 m		28,569.10	
Drill sites		<u>600.00</u>	29,100.

ASSAYING

26 samples		<u>256.54</u>	200.
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EQUIPMENT

Transit Rental, 1 week @ \$125./week		125.00	
Magnetometer Rental, 2 weeks @ \$125./week		<u>250.00</u>	300.

TOPOGRAPHIC MAP

Produced from airphotos		<u>1,150.00</u>	1,100.
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SUPERVISION

C.R. Saunders, P.Eng. - 5 days @ \$300.		<u>1,500.00</u>	1,500.
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REPORT

Data compilation, writing, draughting, typing, reproductions etc.			2,000.
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ADMINISTRATION

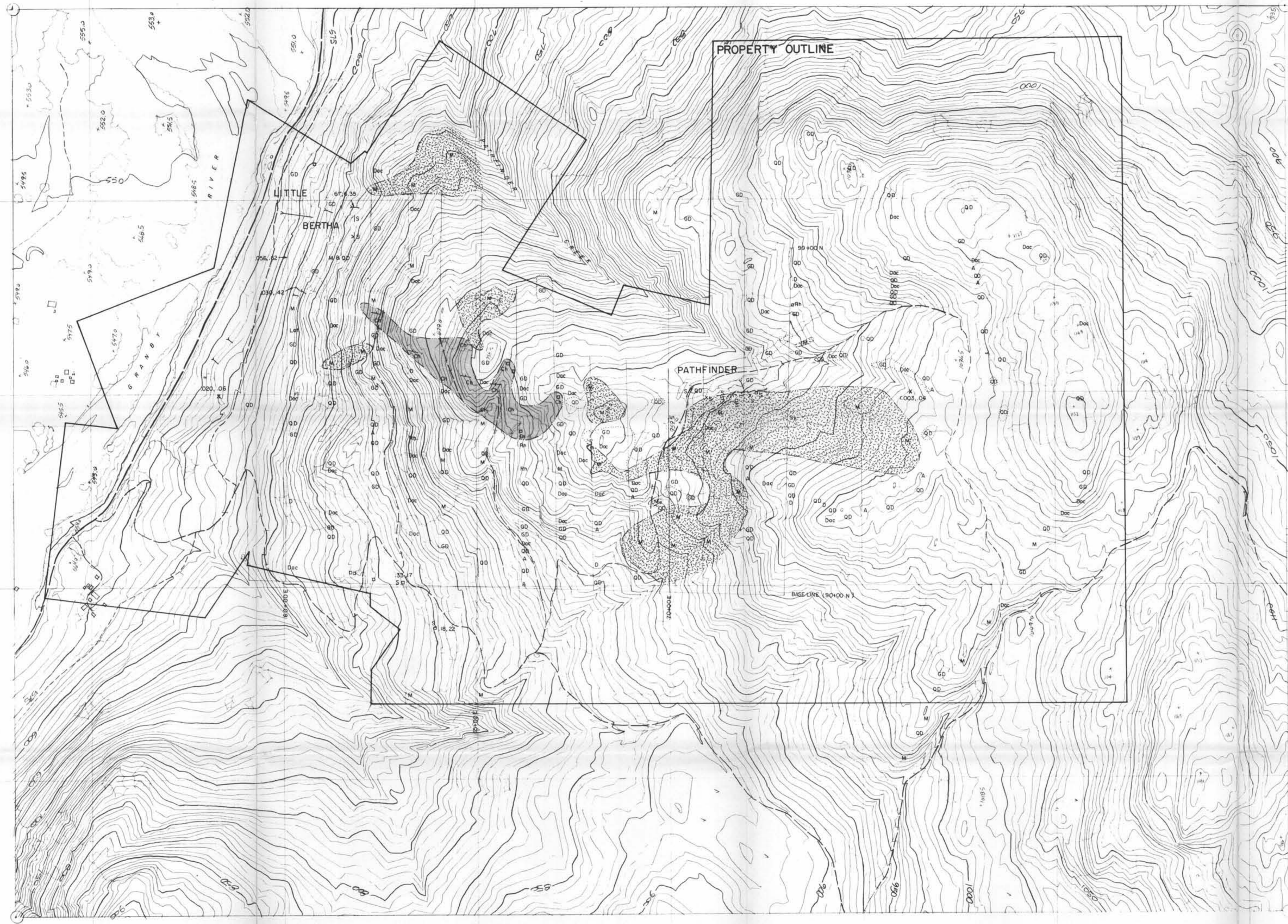
8% of other costs		<u>3,848.00</u>	<u>3,800.</u>
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TOTAL PROJECT COSTS

\$51,900.

Note: Costs rounded down to nearest \$100.00.

S 450 500 N
 S 450 000 N
 S 449 500 N
 S 449 000 N
 S 448 500 N
 S 448 000 N



LEGEND

- GEOLOGICAL CONTACT
 - OUTCROP BOUNDARY
 - ≡ TRENCH
 - ADIT
 - PIT OR SHAFT
 - x MINERALIZATION
 - .33, .17 Au (oz/ton), Ag (oz/ton)
 - S SULPHIDES
- UNIT 1: CH CHERT
- UNIT 2: GD GRANDIORITE
 QD QUARTZ DIORITE
 D DIORITE
 Dac DACITE
 A ALASKITE
 Rh RHYODACITE
 M MONZONITE
- UNIT 3: Lat LATITE
 Sy SYENITE



Scale and elevation datum based on limited ground control resulting in good relative, but uncertain absolute map accuracy.
 Compiled from aerial photography at an approximate scale of 1:50,000 flown in 1979.

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
8945
 NO.

DOLMAGE CAMPBELL & ASSOCIATES LTD. VANCOUVER, CANADA		CONSULTANTS
ARIES RESOURCES INC. VANCOUVER, B.C.		
PATHFINDER PROPERTY		
PROPERTY GEOLOGY		
SCALE 1:5000	OCT. 1980	FIG. 3

315000 E

316000 E

317000 E

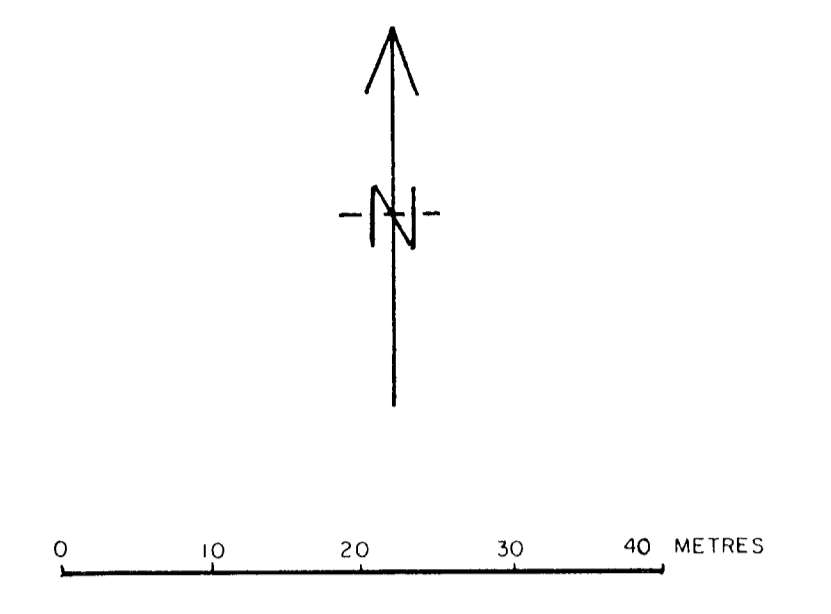
318000 E

319000 E

320000 E

321000 E

322000 E



- LEGEND**
- Road, cut, trench
 - Dump
 - Fault with dip & strike
 - Outcrop
 - Geological contact inferred
 - Diamond drill hole
 - Underground workings
 - 67,6.3 Au (oz/ton), Ag (oz/ton)
- UNIT 2 - dacite
 granodiorite
 UNIT 3 - monzonite

MILLER & BURNES BRANCH
 ASSESSMENT REPORT
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ARIES RESOURCES INC. VANCOUVER, B.C.		
PATHFINDER PROPERTY		
LITTLE BERTHA WORKINGS GEOLOGY		
SCALE 1:500	DEC. 1980	FIG. 5

100+50 N

100+00 N

99+50 N

99+00 N

98+50 N

98+00 N

60+00 E

61+00 E

62+00 E

63+00 E

GAMMAS

800

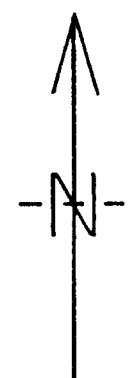
600

400

200

57 000

56 800

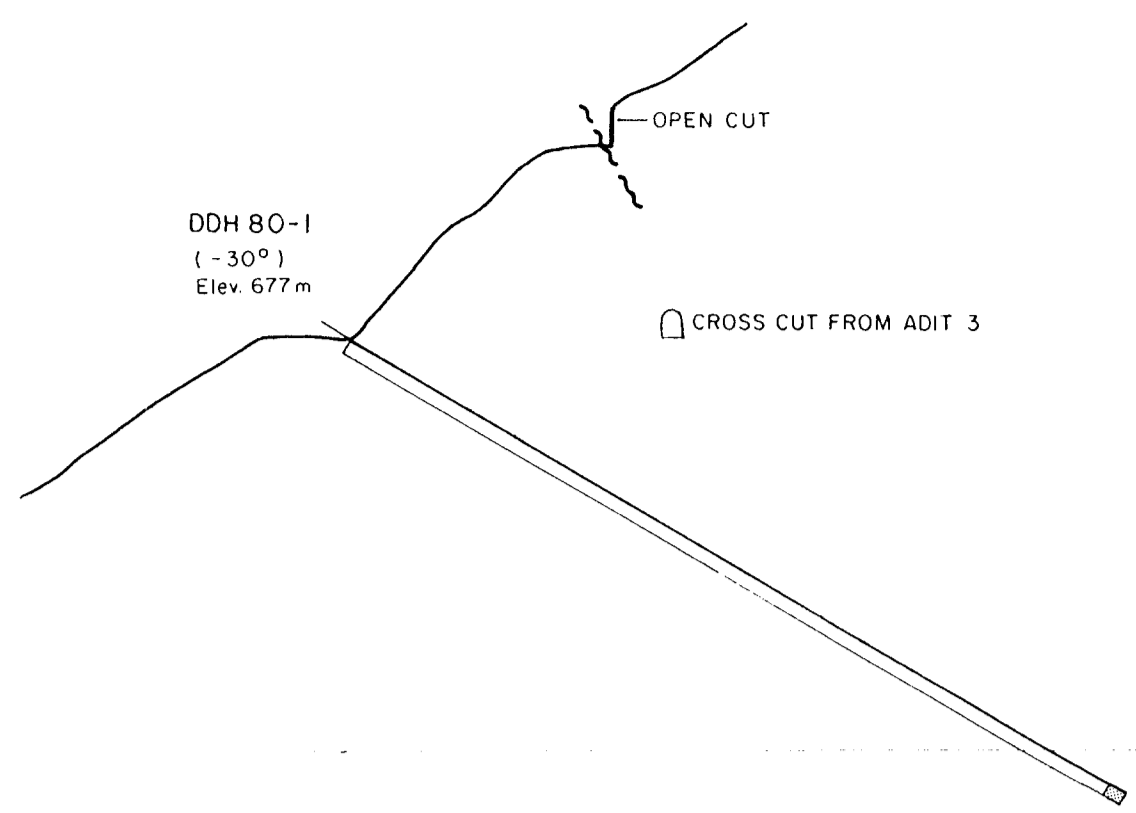


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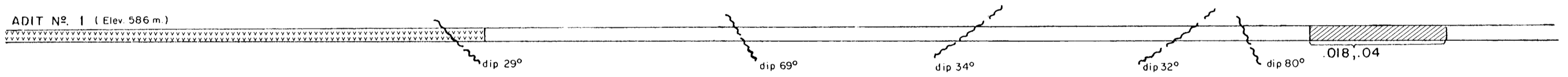
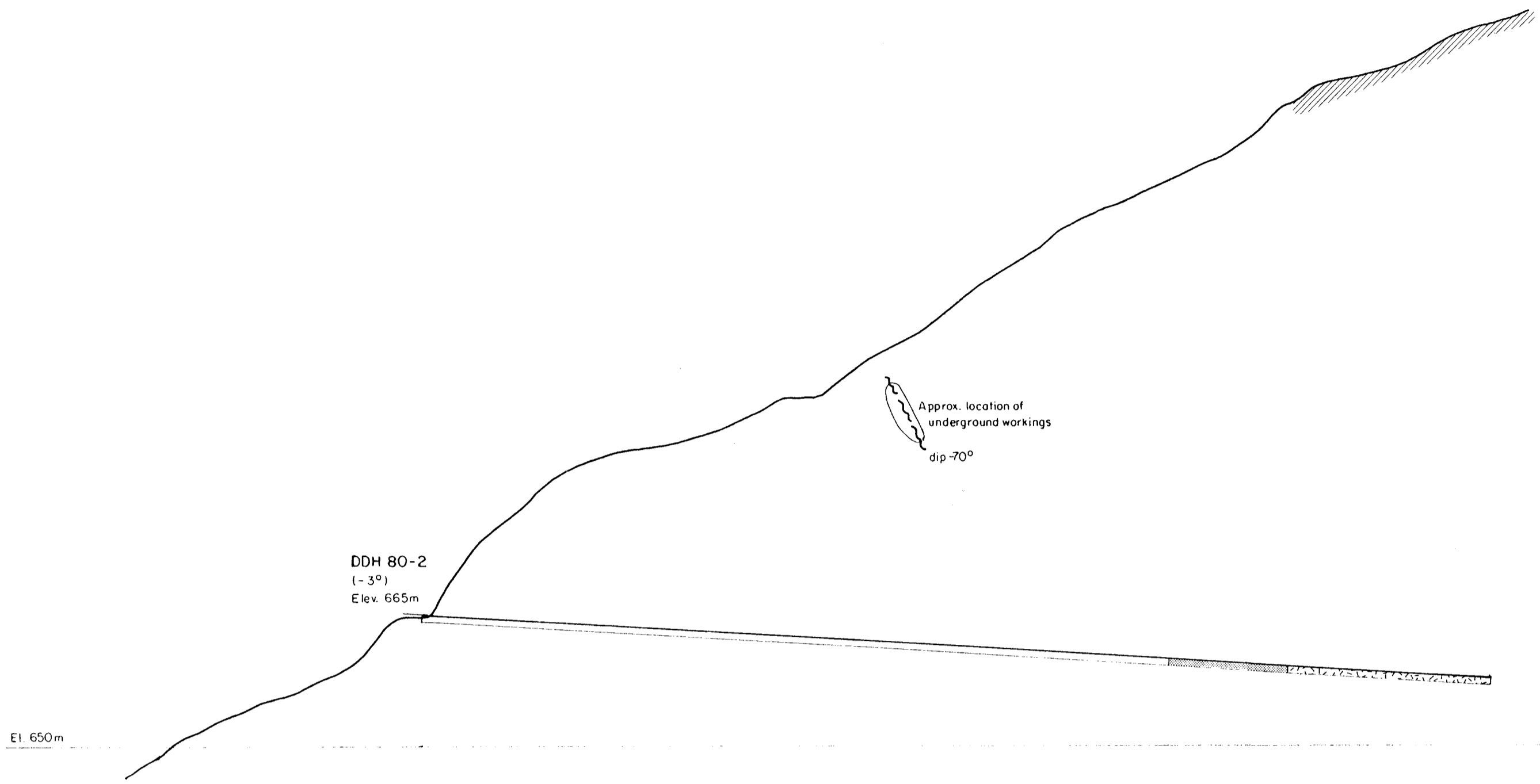
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VANCOUVER, CANADA
ARIES RESOURCES INC.
VANCOUVER, B.C.

PATHFINDER PROPERTY
**MAGNETOMETER PROFILES
LITTLE BERTHA WORKINGS**

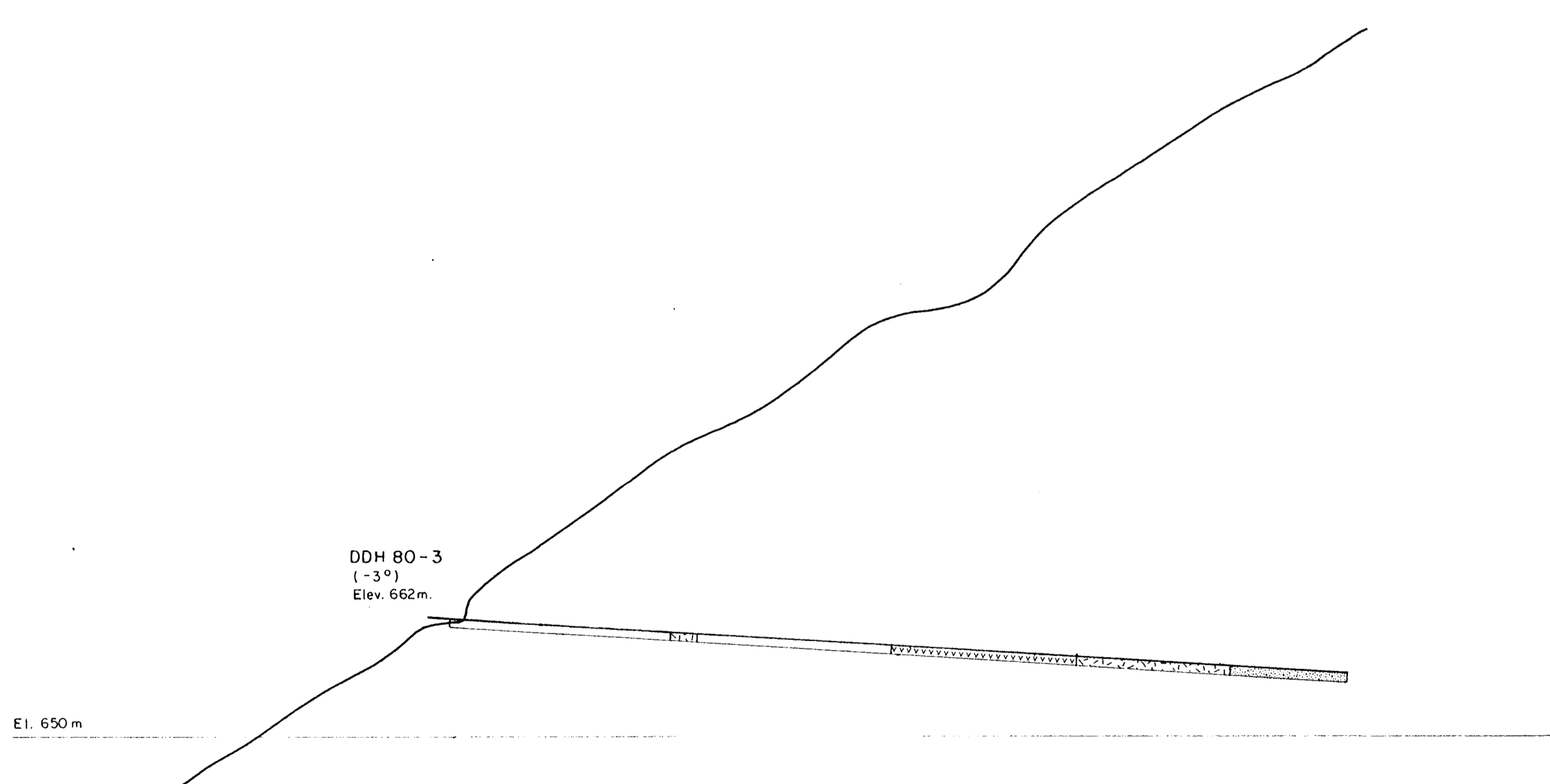
SCALE 1:500 DEC. 1980 FIG. 7



SECTION A-A'



SECTION B-B'



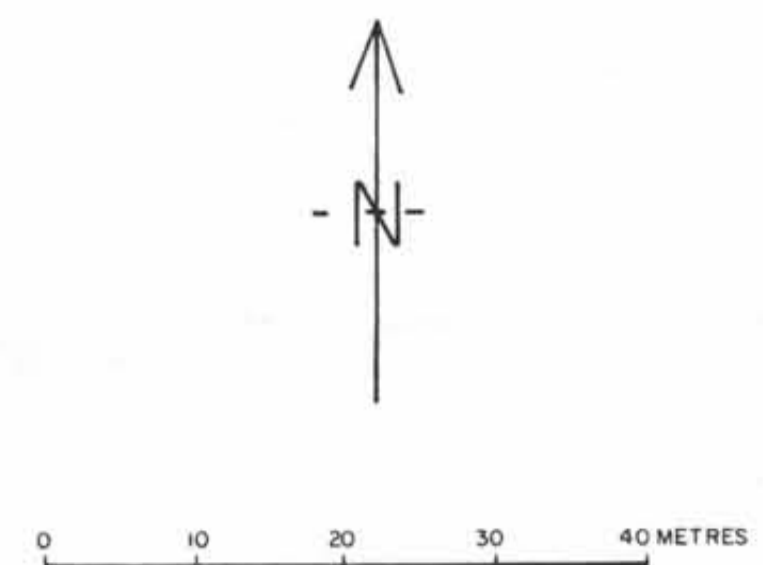
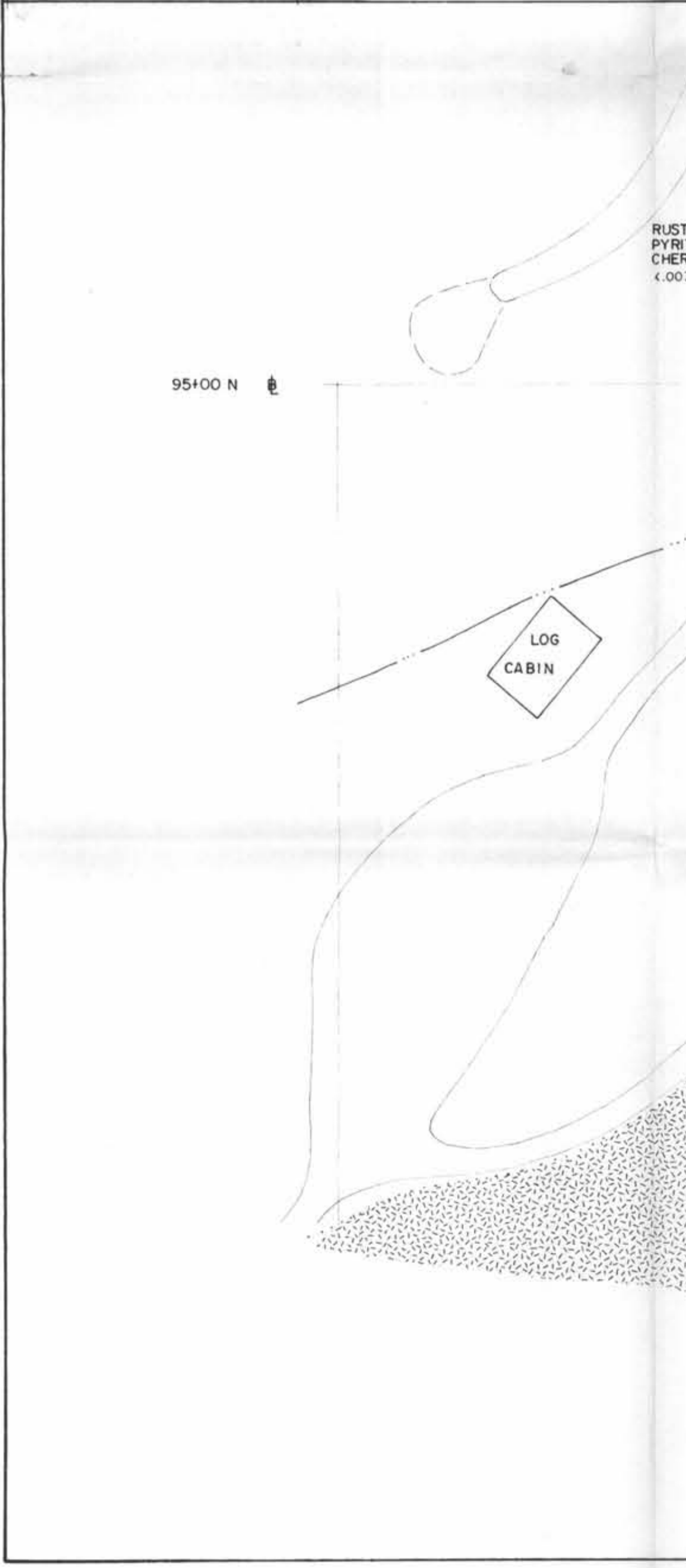
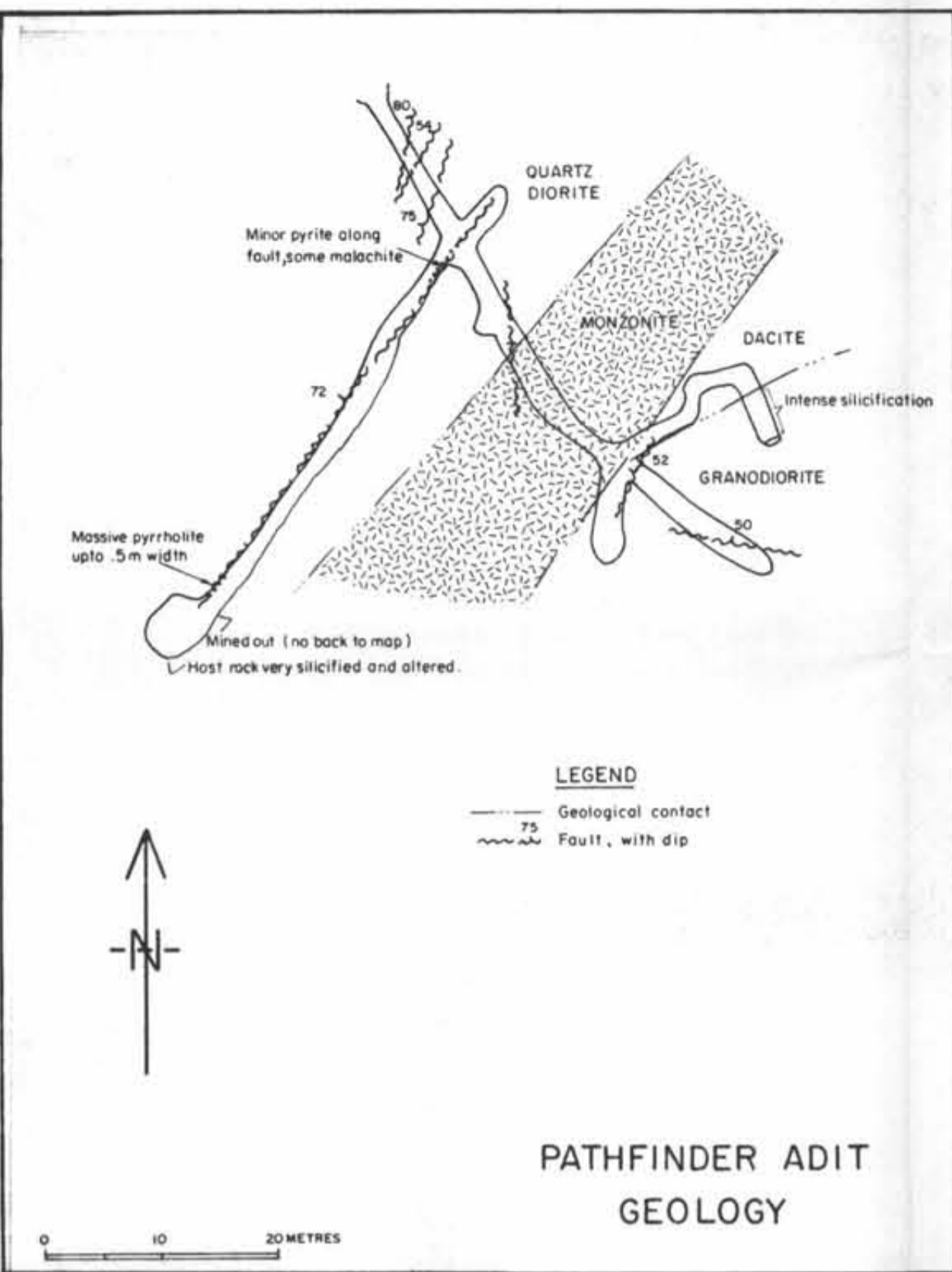
SECTION C-C'

- LEGEND**
- Andesite
 - Quartzite
 - Granodiorite
 - Alaskite
 - Diorite
 - Dacite
 - Monzonite
 - Fault
- 018,04 Au (oz/ton), Ag (oz/ton)

MINERAL RESOURCES BRANCH
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8945
NO.

0 30 metres

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ARIES RESOURCES INC. VANCOUVER, B.C.	
PATHFINDER PROPERTY	
DRILL HOLE PLOTS LITTLE BERTHA WORKINGS	
SCALE 1:500	DEC. 1980
	FIG. 8



- LEGEND**
- Road, cut, trench
 - Pit, shaft
 - Dump
 - Outcrop
 - Geological contact inferred
 - Magnetic anomaly
 - X Massive sulphides as boulders, broken outcrop
 - Massive sulphides in outcrop
 - <.003, .02, 1.3 Au (oz/ton), Ag (oz/ton), Cu (%)
 - UNIT 2: Granodiorite
Quartz diorite
 - ▨ UNIT 3: Pink feldspar porphyritic monzonite

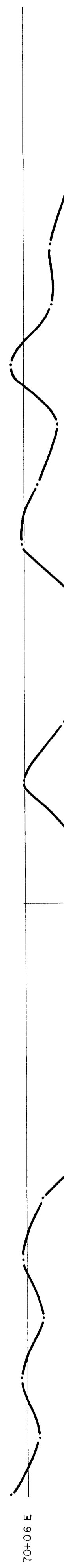
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
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DOLMAGE CAMPBELL & ASSOCIATES LTD. VANCOUVER, CANADA		CONSULTANTS
ARIES RESOURCES INC. VANCOUVER, B.C.		
PATHFINDER PROPERTY		
PATHFINDER SHOWINGS GEOLOGY		
SCALE 1:500	DEC. 1980	FIG. 9

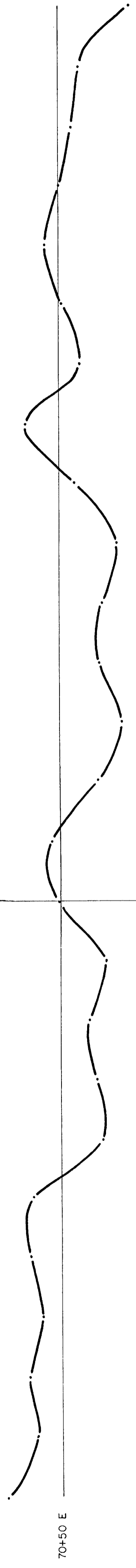
96+00 N

95+00 N

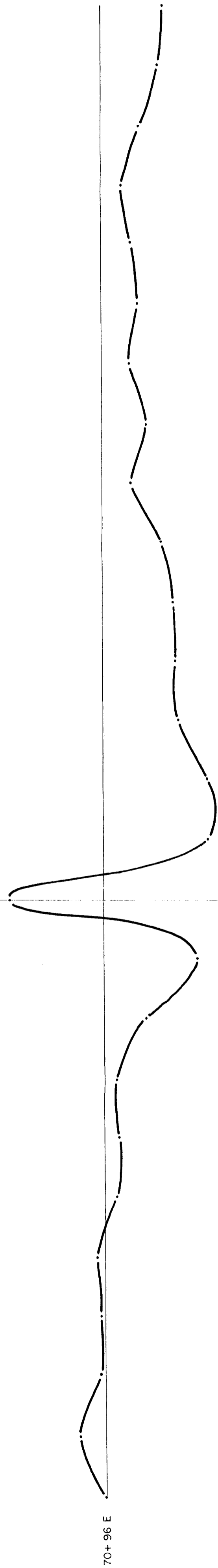
94+00 N



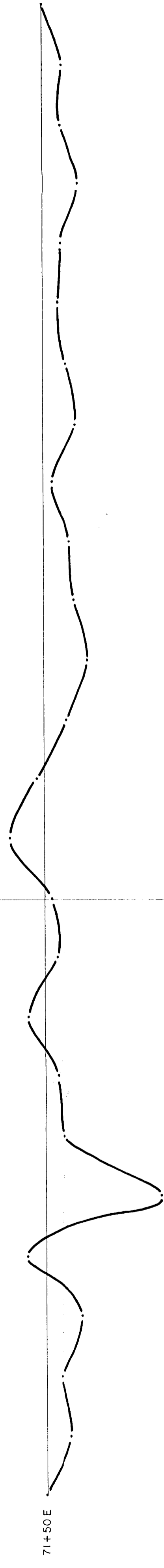
70+06 E



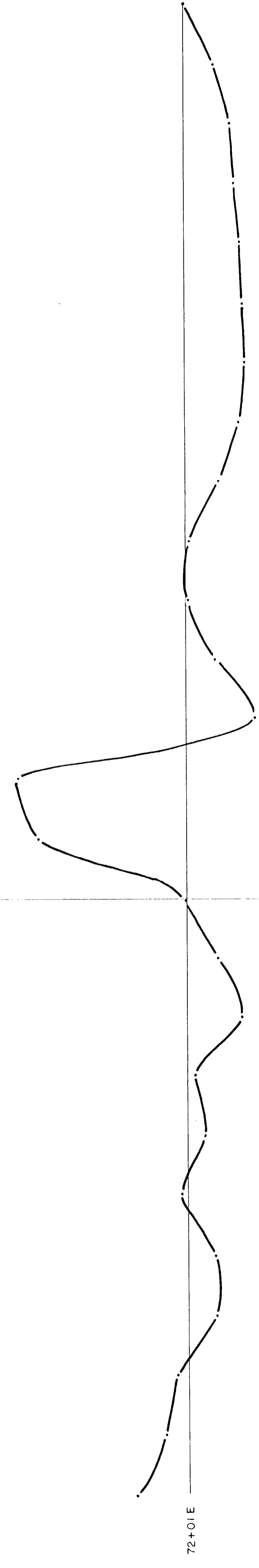
70+50 E



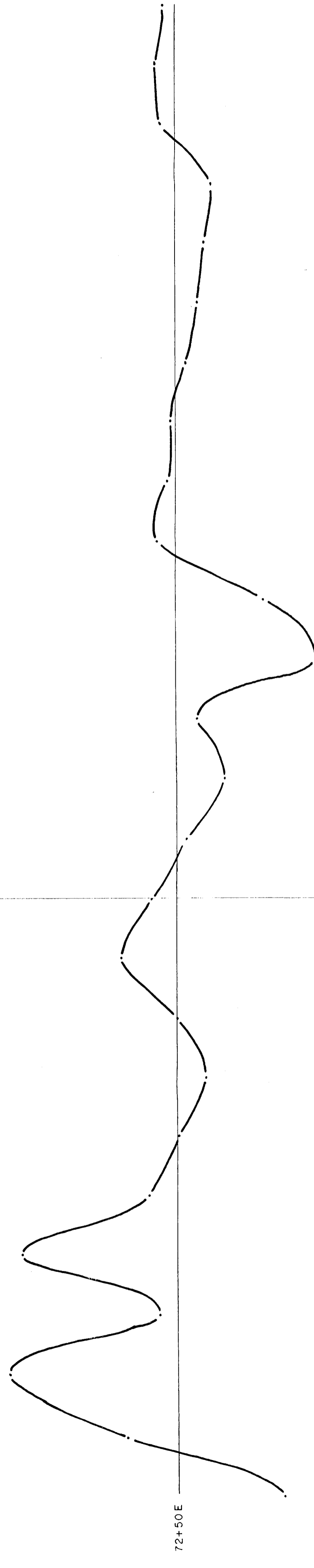
70+96 E



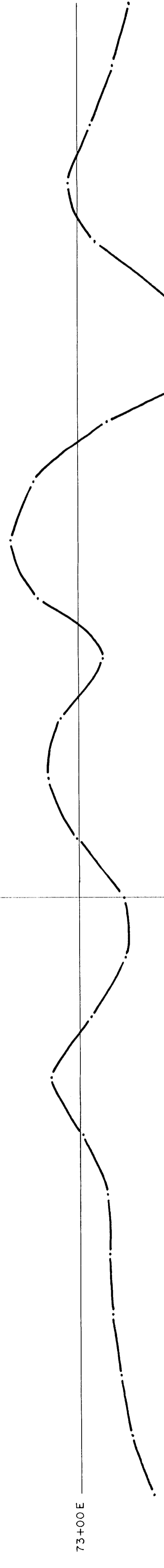
71+50 E



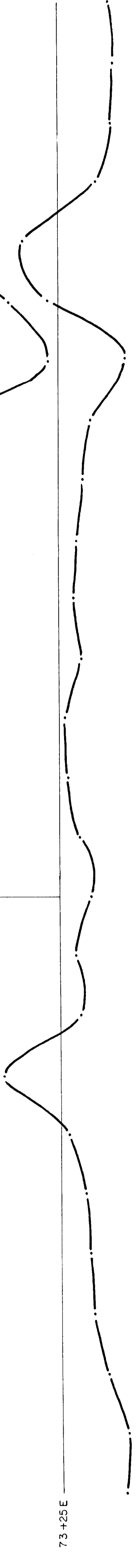
72+01 E



72+50 E

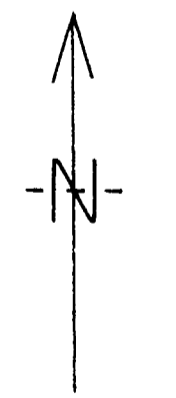


73+00 E



73+25 E

GAMMAS
 800
 700
 600
 57,500
 400
 300
 200



0 40 METRES

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
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 NO.

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 VANCOUVER, CANADA
 ARIES RESOURCES INC.
 VANCOUVER, B.C.
 PATHFINDER PROPERTY
**MAGNETOMETER PROFILES
 PATHFINDER SHOWINGS**
 SCALE 1:500 NOV. 1980 FIG. 10