

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

DIAMOND DRILLING REPORT

NEG 3 CLAIM

Fort Steele Mining Division

Cranbrook Area

N.T.S. 82G/5

Lat: 49° 25' 55"

Long: 115° 56' 50"

OWNER

Cominco Ltd.

Kootenay Exploration
1051 Industrial Road No. 2
Cranbrook, B.C.
V1C 4K7

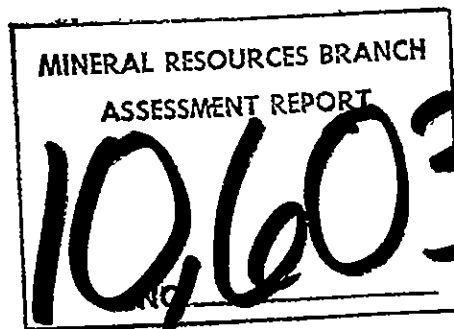
Work Performed during April 1982

Report by:

D.L. Pighin
Geologist

Under the Supervision of:

D. Anderson
Project Geologist



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EXPLORATION

WESTERN DISTRICT

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DRILL LOGS	Attached

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EXPLORATION

WESTERN DISTRICT

DIAMOND DRILLING REPORT

NEG 3 MINERAL CLAIM

Fort Steele Mining Division

1.00 GENERAL STATEMENT

This report described the results and expenditures relating to diamond drilling on the Neg 3 mineral claim.

2.00 INTRODUCTION

2.10 Status of Ownership

The Neg 3 mineral claim is 100% Cominco owned.

2.20 Location and Access

The Neg 3 mineral claim is located 15 km south west of Cranbrook, B.C. Access to the claim can be gained via highway 3/95 and the Lumberton logging road.

The drill hole collars are located at Latitude 49° 25' 55" and Longitude 115° 56' 50".

2.30 General Character of the Area

The Neg 3 claim straddles the Negro creek canyon. The canyon is floored by marsh lands. Elevations range from 1100 meters to 1200 meters. The area hosts stands of mature and immature fir, larch and lodgepole pine.

3.00 DIAMOND DRILLING

Two HQ diamond drill holes totalling 160 meters were drilled from the same drill set. Drill hole N82-1 was drilled at -90° to a depth of 77.13 meters. Drill hole N82-2 was drilled at -60° on bearing of 179° azimuth, to a depth of 83.2 meters. The drill holes were designed to provide geological data relating to the Neg conglomeratic quartzitic wacke occurrence.

D.D.H. N82-1 cored conglomeratic wacke, interbedded wacke and quartzitic wacke. The footwall of the fragmental zone was intersected at 51.4 meters.

D.D.H. N82-2 cored continuous conglomeratic quartzitic wacke to 46.8 meters, intercalated conglomeratic wacke and quartzitic wacke to 71.8 meters. The footwall of the fragmental zone was intersected at 71.8 meters.

No mineralization was intersected in either hole.

The Drill program was under the direction of D.L. Pighin and supervised by D. Anderson.

4.00 CONCLUSIONS

D.D.H. N82-1 and D.D.H. N82-2 drilled on the Neg 3 claim in April of 1982, provided data in regard to the subsurface geology of the Neg conglomeratic quartzitic wacke occurrence.

The core will be stored temporarily at Kootenay Exploration, Cranbrook, B.C. It will be moved later to permanent storage facilities at the Sullivan Mine.

EXHIBIT "A"

STATEMENT OF EXPENDITURES

DIAMOND DRILLING - NEG 3 CLAIM

FORT STEELE MINING DIVISION

Diamond Drilling - Indirect

Salaries

D.L. Pighin (Geologist) Field, planning, logging & supervision - 8 days @ \$175/day	\$ 1,400.00
D.L. Pighin (Geologist) Office, report and map preparation - 2 days @ \$175/day	350.00

Road Access

Henderson Heavy Hauling	366.26
Phillmac Enterprises	114.75
Bearcat Contracting	1,015.88
Fiorentino Bros. Contracting	795.62

Mobilization - Demobilization

Henderson Heavy Hauling	336.00
Bearcat Contracting	1,015.87

Transportation

4x4 ½ Ton - 8 days @ \$25/day	200.00
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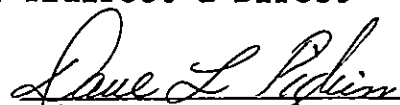
Miscellaneous

Core boxes	295.00
Weld caps on drill hole etc.	93.84
	<hr/>
	\$ 5,983.22

Diamond Drilling - Direct

Longyear Drilling Ltd., 721 Aldford Avenue, Annacis Island, New Westminister, B.C. V3M 5P5	\$23,423.60
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Total Indirect & Direct = \$29,406.82


D.L. PIGHIN, Geologist

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A DIAMOND DRILL PROGRAM

CARRIED OUT ON THE NEG 3 MINERAL CLAIM

CRANBROOK AREA


in the Fort Steele Mining Division of
the Province of British Columbia

More Particularly N.T.S. 82G/5

A F F I D A V I T

I, D.L. Pighin, of the City of Cranbrook, in the Province of British Columbia, make Oath and say:

1. That I am employed as a Geologist by Cominco Ltd. and as such, have a personal knowledge of the facts to which I hereinafter depose:
2. That annexed hereto and marked as Exhibit "A" to this my Affidavit is a true copy of expenditures incurred on a Diamond Drill program, on the Neg 3 Mineral Claim.
3. That the said expenditures were incurred between the 15th day of April, 1982 and the 28th day of April, 1982 for the purpose of mineral exploration on the above noted claim.


D.L. PIGHIN
Geologist

COMINCO LTD.

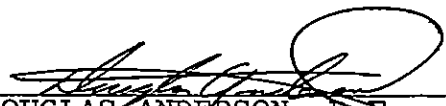
EXPLORATION

WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

D.L. PIGHIN has personally conducted many types of mineral exploration work for Cominco Ltd. over the last sixteen years.

I consider him well qualified to prepare this report.


DOUGLAS ANDERSON, P.Eng.
Project Geologist

Report by: David F. Pighin
D.L. PIGHIN
Geologist

Endorsed by: [Signature]
D. ANDERSON, P.Eng.

Approved for
Release by: John Hamilton
J.M. HAMILTON, P.Eng.
Chief Geologist
Kimberley

cc: Mining Recorder (2 copies) ✓
Western District, Exploration
Kootenay Exploration

Drill Hole Record



Property	NEG	District	Fort Steele	Hole No	DDH N82-1
Commenced	April 16, 1982	Location	NEG 3	Tests at	Nil
Completed	April 19, 1982	Core Size	HQ	Corr. Dip	Nil
Co-ordinates	Lat: 49° 25' 55" Long: 115° 56' 50"		True Brq	-	
Objective	Provide geological data re: the Neg conglomeratic wacke.			% Recov	90%
				Date	April 1982

Claim
NEG 3

T Brq.

Collar Dip
Vertical

Elev 1170 meters

Length
77.13 meters

Footage From To	Description	Sample No.	Length	Analysis
0 - 10m	Casing			
10 - 12.5	Conglomeratic Quartzitic Wacke: clast size 1 cm to 4 cm sharply angular, mainly wacke, 50% matrix tourmalinized 10.36-10.8.			
12.5 - 13.95	Quartzitic Wacke: generally massive, rare thin bedded wacke interbed, bedding to core 82°			
13.95 - 16.5	Conglomeratic Quartzitic Wacke: 1 cm. to 1.5 cm clasts, mainly sharply angular wacke clasts, 25% matrix, clast long axis 85° to core. Some marker clasts matched to Monroe marker at 14.2, marker clasts occur.			
16.5 - 29.0	Quartzitic Wacke; mainly thick to very thick bedded rare thin interbeds of thinly parallel laminated wacke commonly slump structured. Bedding to core 82°			
29.0 - 37.1	Conglomeratic Quartzitic Wacke: wacke clast 1-5 cm mainly irregular shaped, sharply angular, random orientation, generally 75% matrix.			
37.1 - 37.9	Quartzitic Wacke: thick bedded medium grained, contacts gradational.			

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Drill Hole Record



Page 2

Property	District	Hole No	DDH N82-1
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert Comp
Co-ordinates	True Brq	Logged by	
Objective	% Recov	Date	

Claim

T Brq.

Collar Dip

Elev.

Length

Footage From To	Description	Sample No.	Length	Analysis
37.9 - 38.5	Conglomeratic Quartzitic Wacke: wacke clasts 1 cm to 4 cm, sharply angular. Badly broken core.			
38.5 - 39.0	Quartzitic Wacke; thick bedded, medium grained, contact gradational.			
39.0 - 39.3	Conglomeratic Wacke: wacke clasts 1 cm to 5 cm sharply angular irregular shaped random orientation, base contact sharp flat.			
39.3 - 39.5	Wacke, thin bedded, thinly parallel laminated contacts sharp flat. Bedding to core 85°.			
39.5 - 40.4	Quartzitic Wacke; thick bedded, medium grained. Upper and lower contacts slump structured.			
40.4 - 42.0	Conglomeratic Quartzitic Wacke, clasts 1 cm to plus 10 cm, sharply angular tabular, long axis orientation 40° to core, 10% matrix. Soft sed. brecciation of wacke beds by sand injection.			
42.0 - 42.6	Wacke; thin bedded, thin parallel laminated, sharp flat contact. Bedding to core 80°.			

211-843

Scale

Colour Print
& Dies

Drill Hole Record



Property	NEG	District	Fort Steele	Hole No	DDH N82-2
Commenced	April 19, 1982	Location	NEG 3	Tests at	Nil
Completed	April 25, 1982	Core Size	HQ	Corr. Dip	60°
Co-ordinates	Lat: 49° 25' 55" Long: 115° 56' 50"		True Brg	179° Azimuth	Logged by D.L. Pighin
Objective	Provide geological data Re: Neg conglomeratic wacke			% Recov	90%
				Date	April 1982

Footage From To	Description	Sample No.	Length	Analysis			
0 - 10.6	Casing						
10.6 - 14.2	Conglomeratic Quartzitic Wacke; clast size .1 - 6 cm, mainly tabular sharply angular wacke clasts, 50% matrix, clast long axis to core 28°.						
14.2 - 14.4	Wacke; thin bedded, thinly parallel laminated contact sharp - undulating, intruded by numerous small clastic dykes. Bedding to core 47°.						
14.4 - 16.5	Conglomeratic Quartzitic Wacke; clasts size .1 to 6 cm, sharply angular tabular wacke clasts, 75% matrix clast long axis 40° to core.						
16.5 - 18.8	Conglomeratic Quartzitic Wacke; clasts size .1 to 8 cm, sharply angular tabular wacke clasts (mainly marker material) 50% matrix. Long axis generally 60° to core.						
18.8 - 23.0	Conglomeratic Quartzitic Wacke; clasts size .1 to 4 cm, abundant small clasts, sharply angular wacke types generally tabular, long axis 31° to core, 75% matrix 19.4 to 19.5 tourmalinized.						
23.0 - 23.5	Conglomeratic Quartzitic Wacke; clast .1 to 3 cm, rounded and sharply angular wacke clasts, 50% matrix, random orientation 23.0 to 23.5 tourmalinized.						

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Scale

Colour Print
& Dies

Drill Hole Record



Page 2

Property	District	Hole No.	DDH N82-2
Commenced	Location	Tests at	Hor Comp
Completed	Core Size	Corr. Dip	Vert. Comp
Co-ordinates		True Brg.	Logged by
Objective		% Recov	Date

Footage From To	Description	Sample No.	Length	Analysis			
23.5 - 26.3	Conglomeratic Quartzitic Wacke; clast size .1 to 10 cm sharply angular generally tabular wacke clasts, 50% matrix, clast long axis 57° to core. 23.8 - 24.2 tourmalinized in part.						
26.3 - 27.1	Conglomeratic Quartzitic Wacke; clast size .1 to +10 cm mainly small clasts, some rounded but mainly sharply angular wacke clasts. Random clast orientation 75% matrix.						
27.1 - 28.0	Conglomeratic Quartzitic Wacke; clast size .1 to 6 cm, some rounded but mainly tabular wacke clasts long axis 66° to core.						
28.0 - 31.8	Conglomeratic Quartzitic Wacke; clast size .1 to 4 cm sharply angular wacke clasts, 75% matrix clast orientation 60° to core. 30.3 - 30.8 tourmalinized in part.						
31.8 - 32.7	Conglomeratic Quartzitic Wacke; clast size .1 to 4 cm, sharply angular - non tabular clasts. 50% matrix, clast long axis 50° to core.						
32.7 - 40.8	Conglomeratic Quartzitic Wacke; clast size .1 to +8 cm sharply angular wacke clasts, 75% matrix, clast long axis 50° to core.						

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Drill Hole Record
 10-100
 10-100
 10-100

Drill Hole Record



Property	District	Hole No.	DDH N82-2
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim
 T Brg
 Collar Dip
 Elev.
 Length
 Hole No

Footage From To	Description	Sample No.	Length	Analysis
40.8 - 42.5	Conglomeratic Quartzitic Wacke; clast size 1 to 8 cm sharply angular wacke clasts. 50% matrix, clast long axis 55° to core.			
42.5 - 46.2	Quartzitic Wacke; very thick bedded, medium grained, gradational contacts no bedding evident.			
46.2 - 46.8	Conglomeratic Wacke; clast size .1 to 8 cm. sharp angular wacke clasts. 75% matrix, random clast orientation.			
46.8 - 48.9	Quartzitic Wacke; very thick bedded, medium to fine grained, contacts sharp slumped top, gradational base, rare clasts.			
48.9 - 49.8	Conglomeratic Wacke; clast size .1 cm to +8 cm, sharply angular wacke clasts, 50% matrix clast orientation to core 50°.			
49.8 - 50.6	Wacke; thin bedded, parallel laminated, contact sharp flat-undulating near base. Bedding 60° to core.			
50.6 - 52.8	Quartzitic Wacke; very thick bedded, medium grained, contacts gradational.			
52.8 - 55.3	Wacke, medium to thin bedded, parallel laminated in part. Bedding to 62° to core.			

111-8437

Drill Hole Record
 10-100
 10-100

Drill Hole Record



Property	District	Hole No.	DDH N82-2
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim
 T Brg.
 Collar Dip
 Elev.
 Length
 Hole No

Footage From To	Description	Sample No.	Length	Analysis
55.3 - 55.8	Conglomeratic Quartzitic Wacke; .1 to +6 cm sized sharply angular wacke clasts. Clast orientation 55° to core.			
55.8 - 58.6	Wacke; medium to thick bedded, parallel laminated in part. Top contact gradational base indistinct. Bedding to core 55°.			
58.6 - 58.8	Conglomeratic Quartzitic Wacke; clast size .1 to 5 cm, generally sharply angular small non tabular wacke clasts, 50% matrix, clast long axis random. 58.6 to 59.1 shear zone normal to core.			
58.8 - 59.4	Quartzitic Wacke; thick bedded, medium grained, contacts gradational, no bedding evident.			
59.4 - 60.9	Conglomeratic Wacke; clast size .1 to 3 cm, mainly sub-angular wacke clasts, 50% matrix, clast long axis 60° to core.			
60.9 - 61.6	Quartzitic Wacke; thick bedded, medium grained, contacts gradational, no evidence of bedding.			
61.6 - 61.8	Conglomeratic Quartzitic Wacke; clast size .1 to 4 cm sharply angular tabular and irregular shaped wacke clasts, 50% matrix, clast long axis 50° to core.			

111-8437

Drill Hole Record



Property	District	Hole No. DDH N82-2	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From To	Description	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length
61.8 - 62.3	Wacke; slump structured, some brecciation of beds.								
62.3 - 62.7	Conglomeratic Quartzitic Wacke; clast size .1 to 4 cm generally < 1 cm, angular irregular shaped wacke clasts, 75% matrix, random orientations.								
62.7 - 63.3	Quartzitic Wacke; medium bedded, medium grained, generally gradational contacts. Bedding to 70°.								
63.3 - 63.8	Quartzitic Wacke; slump structured.								
63.8 - 65.0	Quartzitic Wacke; thick bedded, medium grained, wispy lenses of subwacke, no bedding evident.								
65.0 - 66.1	Quartzitic Wacke - Wacke; generally slump structure.								
66.1 - 66.4	Conglomeratic Wacke; clast size .1 - 3 cm, sharply angular irregular shaped wacke clasts. Random orientation.								
66.4 - 69.8	Quartzitic Wacke; slumped structured, rare thin fragmental zones.								
69.8 - 71.8	Conglomeratic Quartzitic Wacke; clast size .1 to 5 cm mainly very small clasts sharply angular irregular shapes, 75% matrix, clast long axis generally								

211-443

Drill Hole Record

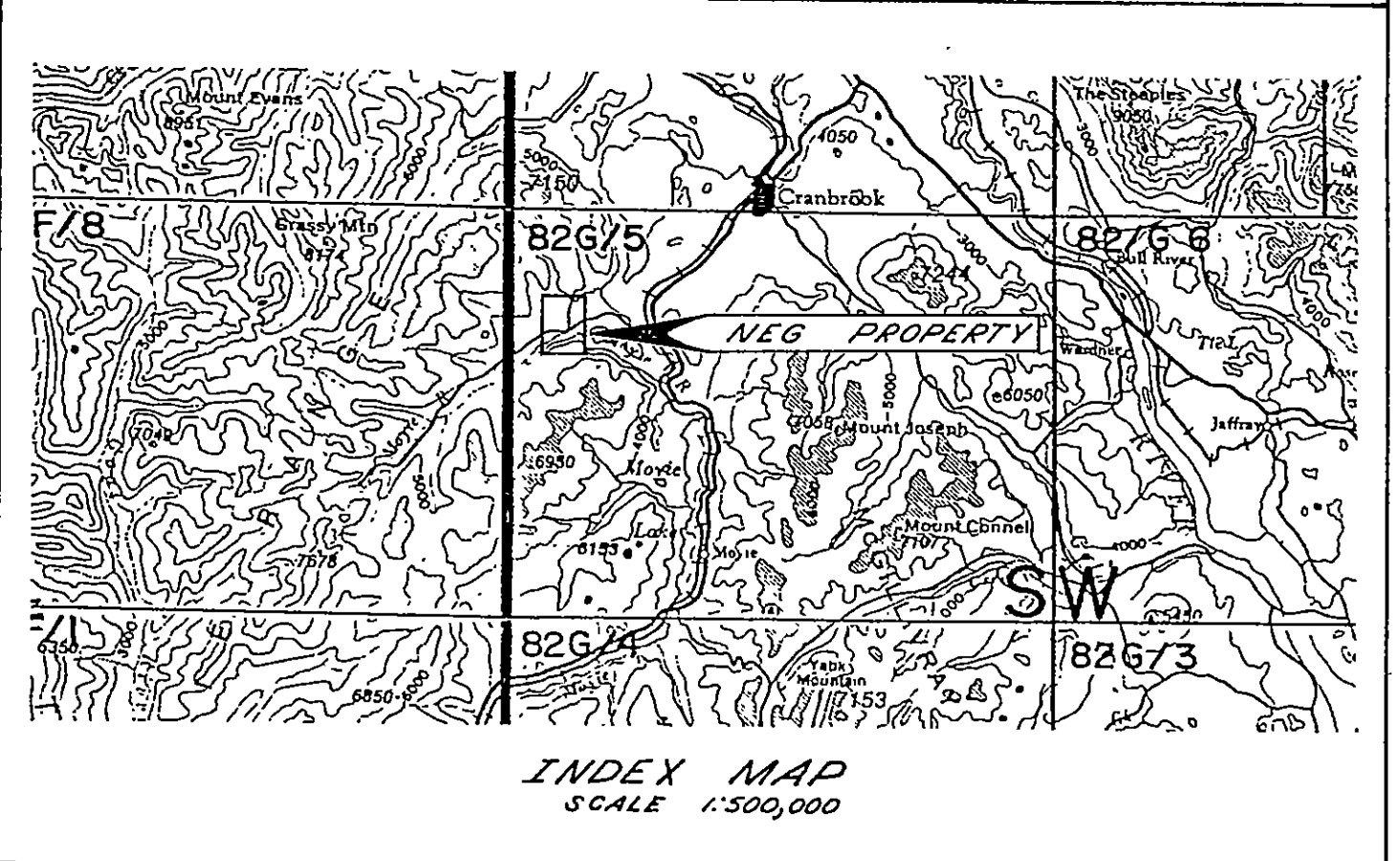
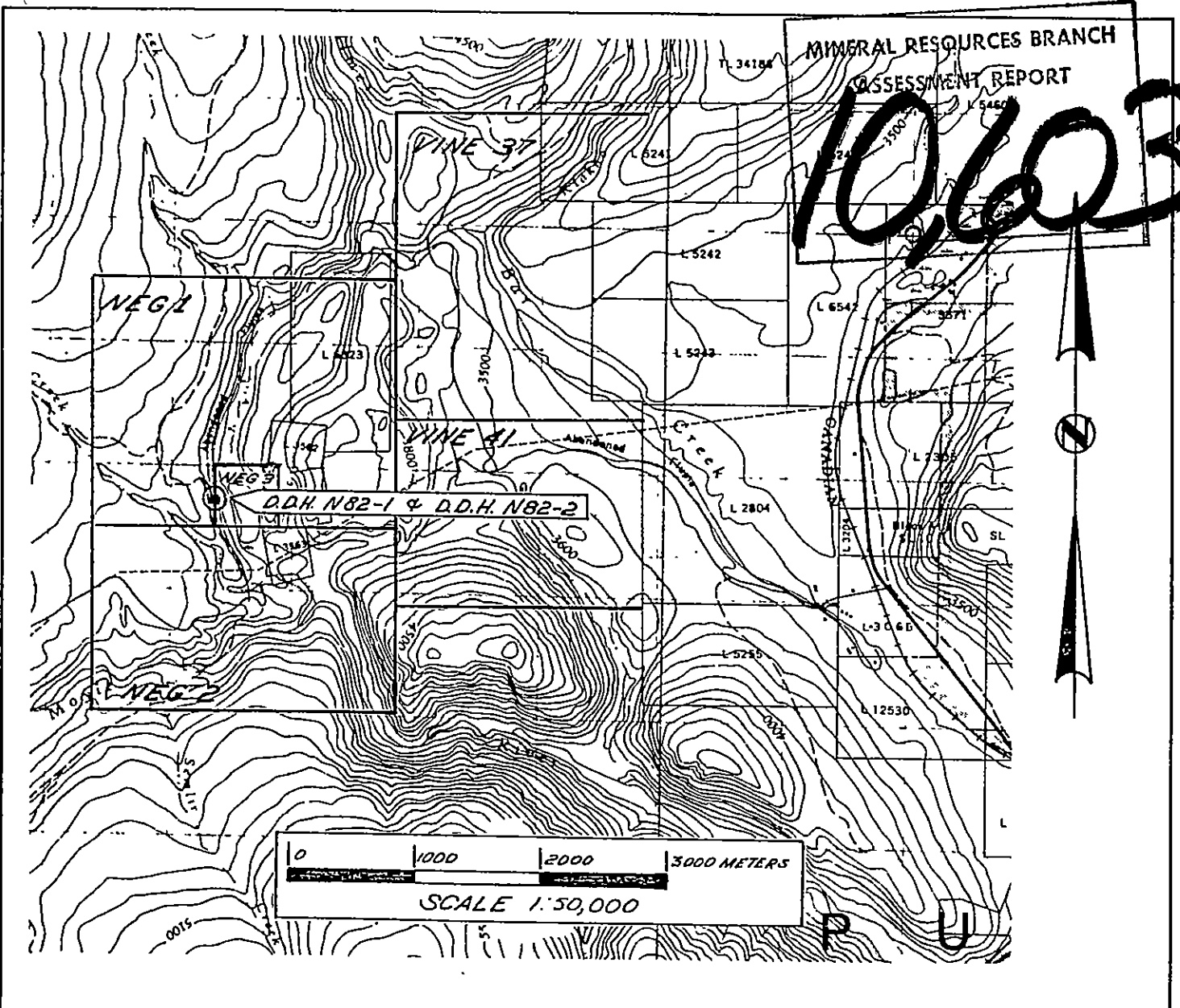


Property	District	Hole No. DDH N82-2	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From To	Description	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length
69.8 - 71.8	55° to core.								
	cont'd								
71.8 - 83.2	Quartzitic Wacke interbedded wacke; medium to thin bedded, wacke commonly parallel laminated.								
	@ 77.5 bedding to core 66°.								
	@ 82.5 bedding to core 63°.								

211-443

10603



NEG PROPERTY



Drawn by: <i>D.L. Pighin</i>	Traced by:
Revised by	Date
Revised by	Date

DIAMOND DRILLING 1982
DRILL HOLES N82-1 & N82-2

Scale: 1:50,000 Date: July 29 1982 Plate: