



DIAMOND DRILLING ASSESSMENT REPORT

on

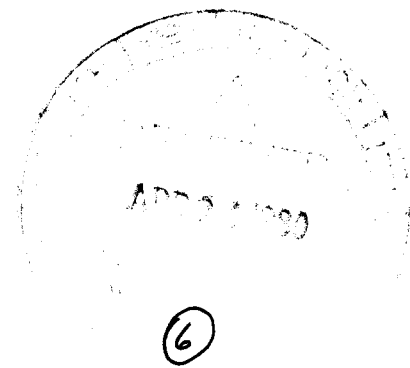
H AND PEAK MINERAL CLAIMS



61°37'N

105 F 10

132°48'W



Noranda Exploration Company Limited
(No Personal Liability)

090572

G. Macdonald

February 1980

7
This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$ _____

Resident Geologist or
Resident Mining Engineer

Considered as representation work under
Section 52 (4) Yukon Quartz Mining Act.

Commissioner of Yukon Territory

TABLE OF CONTENTS

INTRODUCTION

Figure 1 - Location Map

Figure 2 - Claim Map and Drilling Area

DRILL LOGS

APPENDICES:

Statement of Qualifications

Statement of Costs

DIAMOND DRILLING ASSESSMENT REPORT

on

H AND PEAK MINERAL CLAIMS

INTRODUCTION

The claims referred to in this report are held by Noranda Exploration Company Limited (No Personal Liability) under option from Canol Mines Ltd.

Diamond drilling was conducted on the following claims:

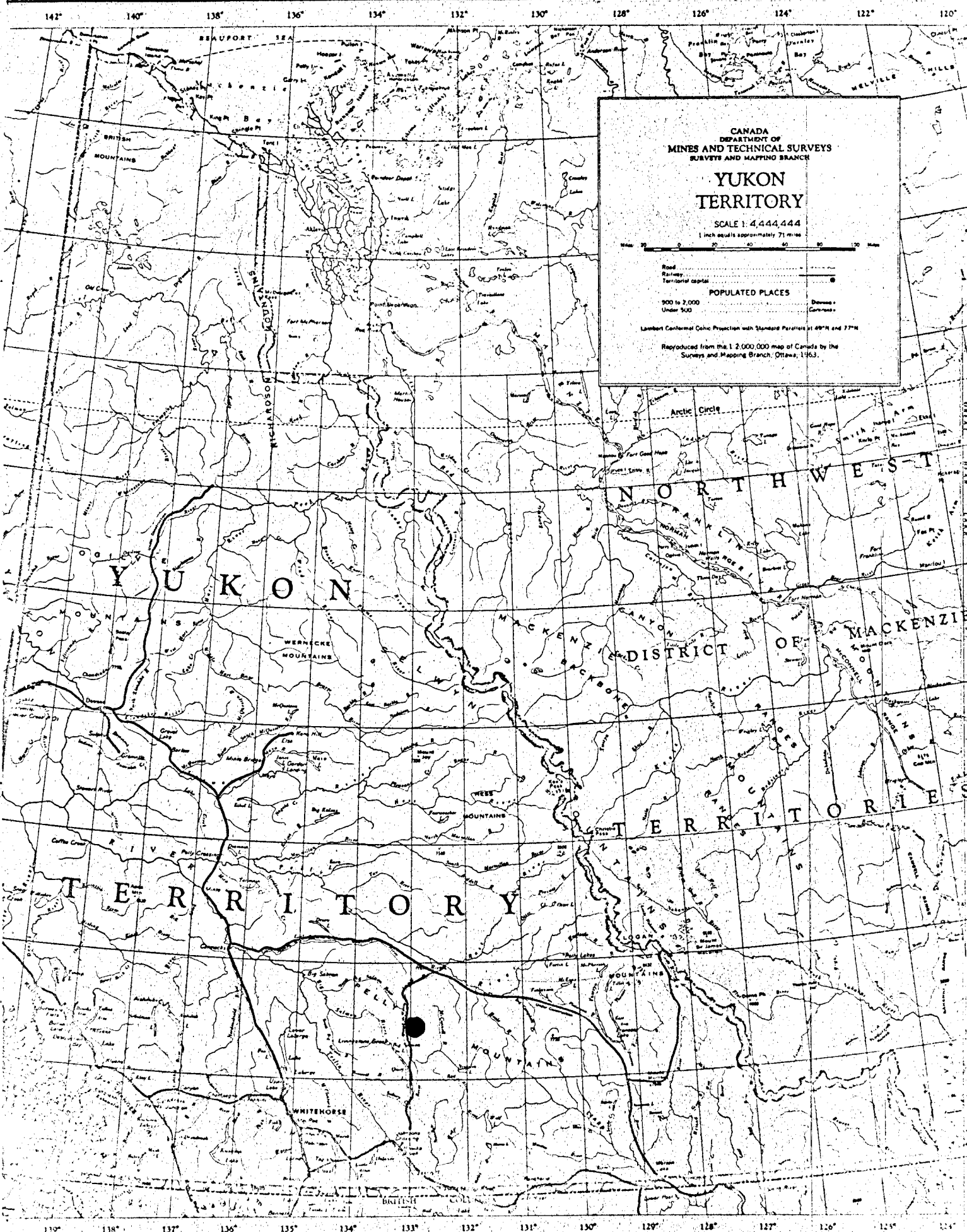
H 1 ----- YA83823

H 2 ----- YA83825

Diamond drilling was contracted for Noranda by B.B.S. Diamond Drilling Ltd. of Whitehorse. Holes 3 to 6 were drilled between November 5th and November 15th, 1979. A total of 754 feet were drilled in four holes. Core size was BQ. The core is stored in Whitehorse.

DRILL LOGS

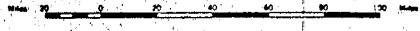
The following drill logs summarize the results of the programme:



CANADA
DEPARTMENT OF
MINES AND TECHNICAL SURVEYS
SURVEYS AND MAPPING BRANCH

YUKON TERRITORY

SCALE 1:4,444,444
1 inch equals approximately 71 miles



Road
Railway
Territorial capital

POPULATED PLACES

500 to 2,000
Under 500

Lambert Conformal Conic Projection with Standard Parallels at 69°N and 77°N

Reproduced from the 1:2,000,000 map of Canada by the
Surveys and Mapping Branch, Ottawa, 1963.

142° 140° 138° 136° 134° 132° 130° 128° 126° 124° 122° 120°

139° 138° 137° 136° 135° 134° 133° 132° 131° 130° 129° 128° 127° 126° 125° 124°

Coast map obtained from the Map Information Centre, Department of Natural Resources Canada.

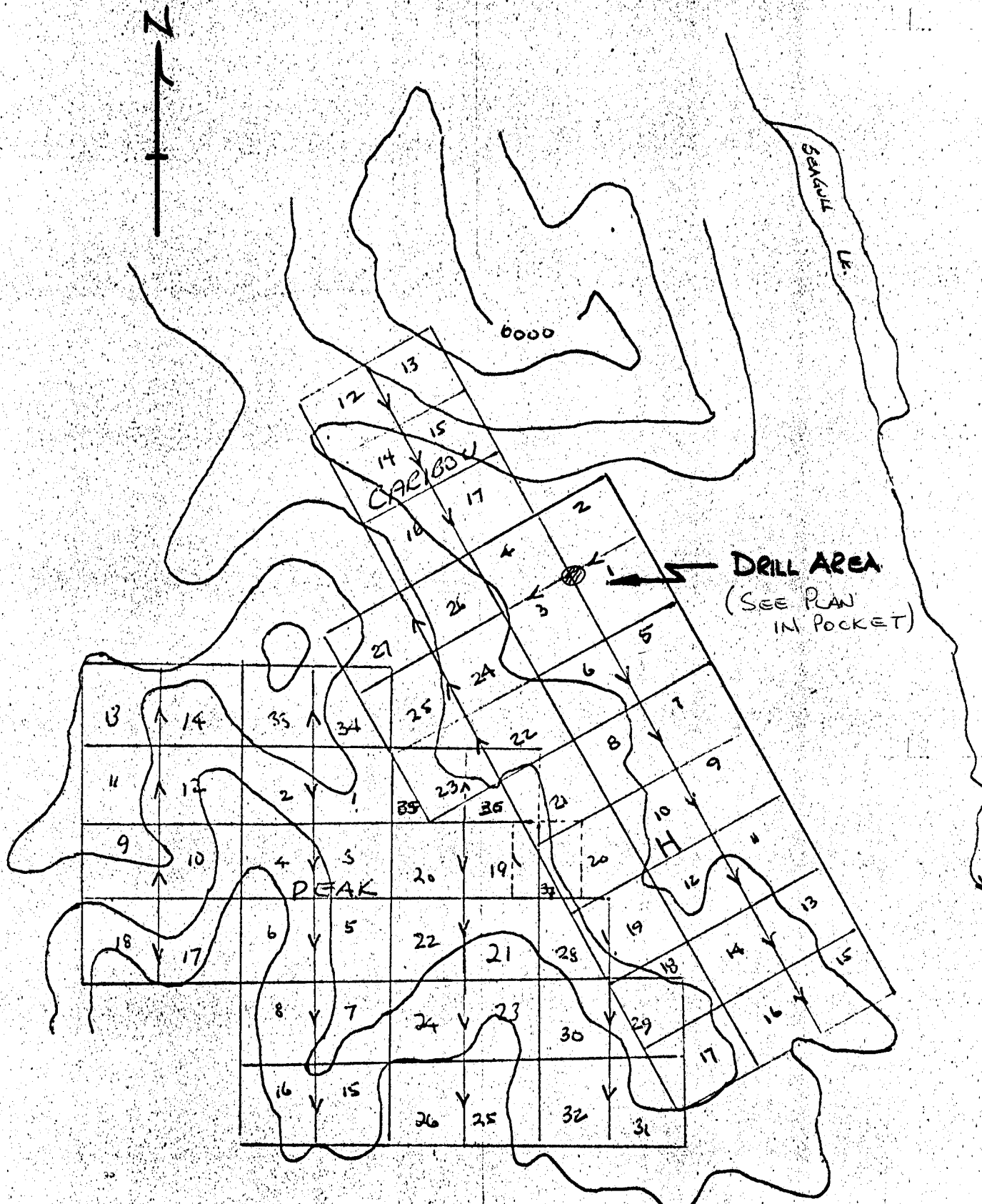


FIG. 2
LOCATION PLAN
H & PEAK M.C.
105 F 10
1" = 1/2 MILE

NORANDA EXPLORATION COMPANY, LIMITED

Collared Nov. 5/79	Completed Nov. 6/79	Core Size BQ	Property CANOL OPTION	Project No 933	NTS No. 105-F-10
FIELD COORDINATES			SURVEYED COORDINATES		
Lat. 127+00 N	Elev.	Dip -45°	Lat.	Elev.	Dip
Dep. 138+35 E	Depth 127'	Bearing West	Dep.	Depth	Bearing
					Hole No. 79-3

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.						
0-20			Overburden										
21-30	60%		20-21: - Grey cherty quartzite, minor pyrite - Minor PbS, Cpy (<1%)	5%									
31-40	60%		21-72: - Very graphitic black shale - Quartz filling small (1/8") fractures & faults	5%									
41-50	60%		- Breccia(?) 40-45, 2% PbS - Pyrite disseminated throughout to 5%	5%									
51-60	60%		- Numerous small faults throughout - Core largely rubble and broken	5%									
61-70	60%		- Core angle @ 47' = 15° 73-127: - Highly contorted grey black shale	5%									
71-80	60%		- Graphitic along shears @ 0-15° to core axis - Tight F ₂ (?) foliation 1/4" - 1/2" folds										
81-90	60%		- Minor quartz in faults										
91-100	60%		<u>Andesite(?) dykes:</u>										
101-110	60%		31-36) 39-40) Dykes are light green in colour and										
111-120	60%		51-59) 71-73) have 10-20% recrystallized and finely										
121-130	60%		71-73) 97-104) disseminated pyrite										
127			END OF HOLE										

G. Macdonald

NORANDA EXPLORATION COMPANY, LIMITED

(Preliminary)

Collared 7 Nov	Completed 9 Nov	Core Size BQ	Property CANOL OPTION	Project No 933	NTS No. 105-F-10
FIELD COORDINATES			SURVEYED COORDINATES		
Lat. 129 N	Elev. 70	Dip -60	Lat.	Elev.	Dip
Dep. 137 E	Depth 237	Bearing E	Dep.	Depth	Bearing
					Sheet 1 of 3
					Hole No. 79-H-4

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
0-29			Overburden								
29-57			Dark grey-black finely laminated, slightly contorted, graphitic shale	2+							
			Core Ls 70-80°								
			Andesitic dykes @ 45.5-47.5								
57-80			Light grey cherty shales, occasionally highly contorted and graphitic								
			Chert band 71.5-73								
80-133			Black shales (as 29-57')								
33-220			Stockwork(?)	20+							
			Breccia: fragments consist of angular grey chert and black quartzitic siltstone								

DATE _____ LOGGED BY *J. L. ...*

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property	Project No. 933	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing
					Sheet 2 of 3
					Hole No. 79-H-4

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	Pb	Zn
			Pyrite occurs to 20% over 6" - recrystallized in cement						
			of quartz-siderite-dolomite \pm barite or finely disseminated in chert and siltstone fragments						
			162': minor PbS in $\frac{1}{4}$ " fracture						
			185-197': chert (tuff?) clasts in very fine-grained pyrite-rich mud						
			197-217': weakly mineralized stockwork including 207-212 section with massive sulphides ("framboidal" py)						
			<u>Sample</u> <u>Length</u>						
			P 1781 199-207				8'	0.55	0.01
			P 1782 207-212				5'	8.00	3.84
			P 1783 212-217				5'	0.43	0.03
220-237			Grey chert (partly fault rubble)						
			- little pyrite						

NORANDA EXPLORATION COMPANY, LIMITED

(Preliminary)

Collared 9 Nov	Completed 12 Nov	Core Size BQ	Property CANOL OPTION	Project No 933	NTS No. 105-P-10
FIELD COORDINATES			SURVEYED COORDINATES		
Lat. 128 N	Elev. 70	Dip -60	Lat.	Elev.	Dip
Dep. 137+30 E	Depth 163	Bearing E	Dep.	Depth	Bearing
					Sheet 1 of 1
					Hole No. 79-H-5

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	Pb %	Zn %	As	Ag
0-38			Overburden							As	Ag
38-117			Black shales	2+							
			- Fine laminations								
			- Occasionally very contorted								
			- Occasional quartz veinlets to 1/2"								
			- Core Ls (partings?) 60-80°								
			- Andesite dyke 58.5-59.5								
117-147			"Stockwork" breccia (as for 79-H-4)	15+							
			<u>Sample</u> <u>Length</u>								
			1805 139-144				5	0.01	0.02	Tr	0.0
			1806 134-139				5	0.06	0.02	0.005	0.0
			1807 129-134				5	0.01	0.01	Tr	0.0
			1808 122-129				7	0.01	Tr	Tr	0.0
147-163			Less brecciated grey chert	3+							

DATE _____

LOGGED BY _____

Q. H. ...

Collared 12 Nov	Completed 15 Nov	Core Size BQ	Property CANOL OPTION	Project No. 933	NTS No. 105-F-10
FIELD COORDINATES			SURVEYED COORDINATES		
Lat. 130+15 N	Elev. 74	Dip -60	Lat.	Elev.	Dip
Dep. 136+90 E	Depth 224	Bearing E	Dep.	Depth	Bearing
			Sheet 1 of 3		
			Hole No. 79-H-6		

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.						
0-30			Overburden										
30-105			Black shales (as for 79-H-4)	3+									
			Andesitic dykes @ 57.5-60.5 and 76.0-77.0 (dykes have larger cubes, 1/4"-1", pyrite)										
			76-105: cherty/shale										
105-202			Stockwork breccia	20+									
			- Angular fragments of chert and quartzitic silkstone in matrix veinlets of quartz, siderite, dolomite and 20% py.										
			- 172.5-175: "Flaser" lenses of pyrite in silt and/or f.g. sandstone (py to 50% very f.g.)										
			- 175-183: Stockwork with 2-3% Pb										

DATE _____ LOGGED BY *J. MacDonald*

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property	Project No 933	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing

Sheet 2 of 3

Hole No. 79-H-6

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	Pb	Zn
			<u>Sample</u> <u>Length</u>						
			P 1803 172-178				6	0.02	0.01
			P 1804 178-183				5	0.31	0.02
			1776 106-108				2	2.05	-
			1777 108-113				5	0.39	0.01
			1778 113-118				5	1.53	-
			1779 118-123				5	0.86	-
			1180 123-128				5	0.03	-
			123-128: 5%(?) finely disseminated and fracture-filled arsenopyrite						
			128: "Zebra"-textured quartz + siltstone						
			105-202: 10%(?) pyrite overall (includes recrystallized and formational)						

Submitted by:

G Macdonald

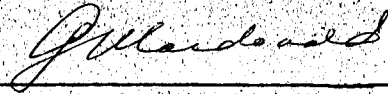
G. Macdonald, Geologist.

APPENDICES

STATEMENT OF QUALIFICATIONS

I, GLEN MACDONALD, of the City of Whitehorse in the Yukon Territory, DO
HEREBY CERTIFY that:

1. I have been employed as a Geologist by Noranda Exploration Company Limited (No Personal Liability) since May 1976.
2. I am a graduate of the University of British Columbia, with a Bachelor of Science degree in Geology.
3. I am a member of the Canadian Institute of Mining and Metallurgy.



G. Macdonald, Geologist,
Noranda Exploration Company Limited
(N.P.L.)

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

PROJECT Canol Option

DATE February 1980

TYPE OF REPORT Diamond Drilling - Phase 2

a) Wages:

No. of Days 33

Rate per Day \$98.3093

Dates: from November 5 to December 31, 1979

Total Wages 33 x \$ 98.3093 3,244.21

b) Food and Accomodation:

No of days 33

Rate per day \$149.3418

Dates: from November 5 to December 31, 1979

Total Cost 33 x \$149.3418 4,928.28

c) Transportation:

No of days 33

Rate per day \$500.0315

Dates: from November 5 to December 31, 1979

Total Cost 33 x \$500.0315 16,501.04

d) Instrument Rental:

Type of Instrument

No of days

Rate per day \$

Dates: from to

Total Cost X \$

Type of Instrument

No of days

Rate per day \$

Dates: from to

Total Cost X \$

f) Analysis
(See attached schedule)

g) Cost of preparation of Report

Author	181.95	
Drafting	158.00	
Typing	100.00	439.95

h) Other:

Field & Camp Supplies	1,615.41	
Cat Work (Midnight Sun.)	7,047.50	
Diamond Drill Contractor (B.B.S. - D.D.)	23,668.90	
Expediting & Communications	79.64	
Supervision: D.Cross P. Eng. G.E. Dirom P. Eng. 4 @ 266	1,064.00	33,475.45

Total Cost

\$ 58,588.93

e) Unit costs for Diamond Drilling

No of days 33

No of ~~units~~ Dates from November 5 - December 31, 1979

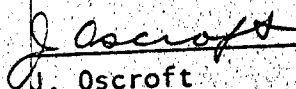
~~Unit costs~~ No. of Units 228.9 M

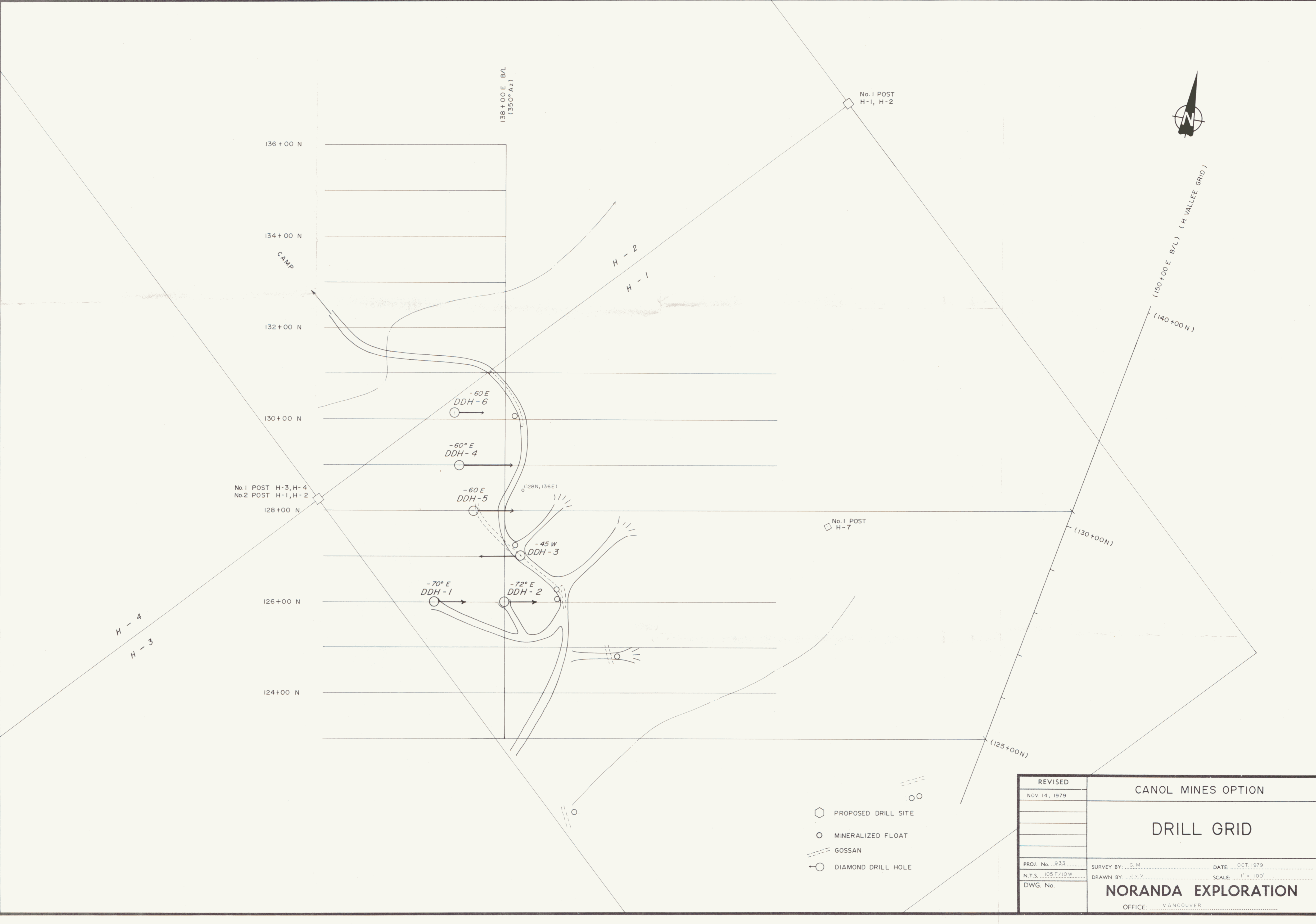
Unit Cost \$255.95862 M





Total Cost 228.9 x \$255.95862

\$ 58,588.93

This is to certify the above amount of
\$58,588.93 for phase 2 Diamond Drilling
is correct.


J. Oscroft
Assistant Accountant.



-  PROPOSED DRILL SITE
-  MINERALIZED FLOAT
-  GOSSAN
-  DIAMOND DRILL HOLE

REVISED	CANOL MINES OPTION	
NOV. 14, 1979		
	DRILL GRID	
PROJ. No. 933	SURVEY BY: G.M.	DATE: OCT. 1979
N.T.S. 105 F/10W	DRAWN BY: J.v.v.	SCALE: 1" = 100'
DWG. No.	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	