

DIAMOND DRILLING ASSESSMENT REPORT

on

H and PEAK mineral claims

105 F 10

61°37'N

132°48'W

Noranda Exploration Company Limited
(No Personal Liability)

G. Macdonald

December 1979

091147





P. O. Box 269
Watson Lake, Yukon
YOA 1C0

10 January, 1980

Your file *Votre référence*

Our file *Notre référence*

REGIONAL DIRECTOR RESOURCES

Attention: Supervising Mining
Recorder

RESTRICTED

Enclosed are Diamond Drill Logs submitted by Noranda Exploration Company Limited for assessment on the H and PEAK mineral claims located on claim sheet 105-F-10. Two holes were drilled to a total depth of 838 feet.

Drill core is being stored in Whitehorse.

Yours truly,

V. W. Johanson
Mining Recorder
Watson Lake Mining District

PLM
Encl.
cc/ Regional Geologist

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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.

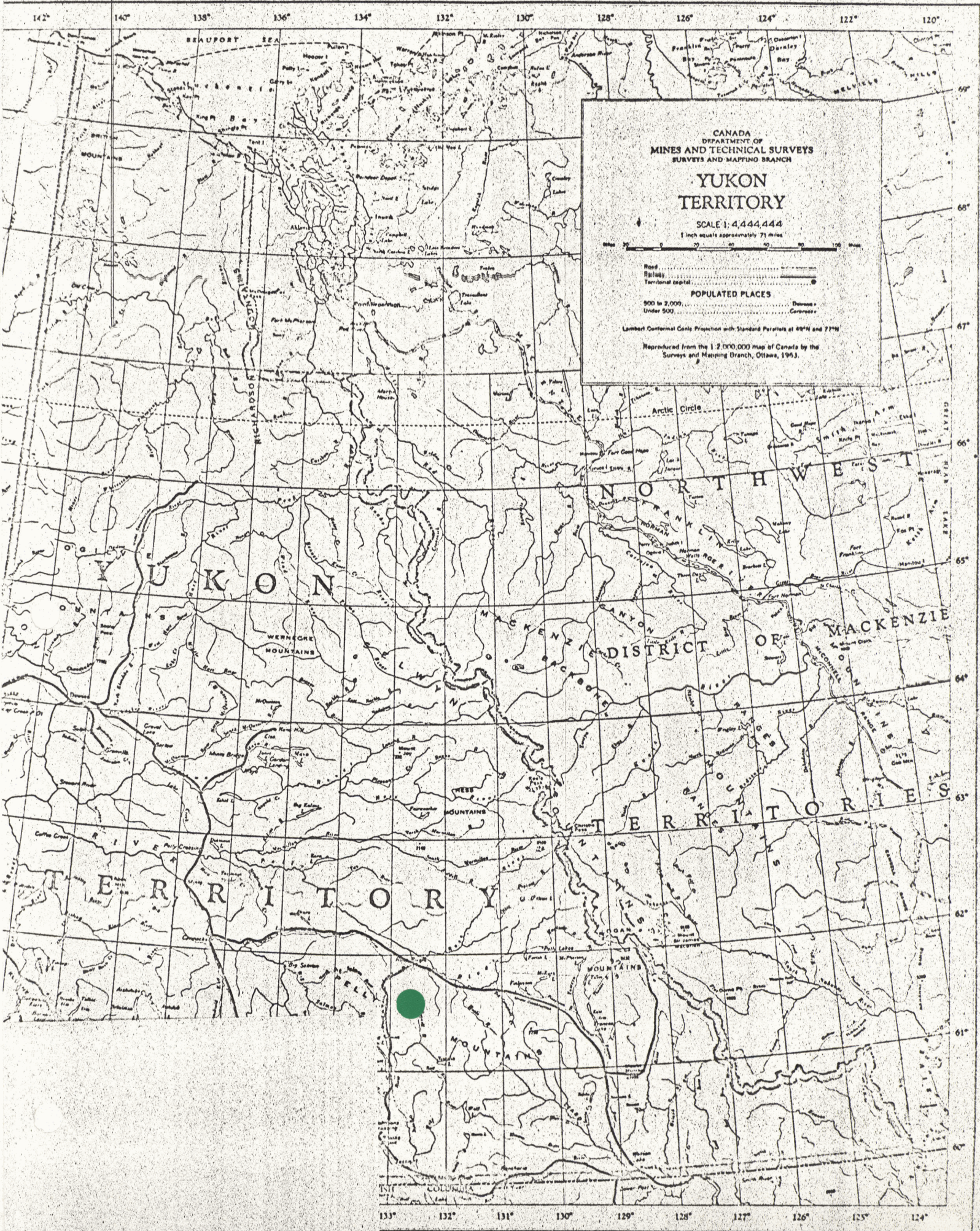
Diamond drilling was conducted on the following claims:

H 1	-	YA83823
H 2	-	YA83825

Diamond drilling was contracted for Noranda Exploration Company by B.B.S. Diamond Drilling Ltd. of Whitehorse. Holes 1 and 2 were drilled between August 25 and September 1, 1979. A total of 838 feet was drilled in two holes. Core size was BQ. Core is stored in Whitehorse.

DRILL LOGS

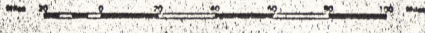
The following drill logs summarize the results of the programme:



CANADA
DEPARTMENT OF
MINES AND TECHNICAL SURVEYS
SURVEYS AND MAPPING BRANCH

YUKON TERRITORY

SCALE 1:444,444
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 49°N and 77°N

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

NORANDA EXPLORATION COMPANY, LIMITED

Collared Aug. 24	Completed Aug. 28	Core Size BQ	Property Canol Option	Project No 933 J	NTS No. 105-F-9
FIELD COORDINATES			SURVEYED COORDINATES		
Lat.	Elev.	Dip -75°	Lat.	Elev.	Dip
Dep.	Depth 582 feet	Bearing 75° E of N	Dep.	Depth	Bearing
			Hole No. 79-H-1		

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
0-61			Overburden								
61-132	100%		Siliceous siltstone:								
			- light to dark gray, fine grained and finely laminated								
			(altering light and dark bands)								
			- graphitic and slightly pyritic (<1%) along bedding, in								
			light bands at 45° to core axis)								
			- some massive pyrite sections (1"-6") associated with								
			quartz veins and brecciated siltstone								
			- slickenside surfaces								
			- 61'-89' contains pods of pyritic alkaline volcanics								
			(1'-2') sections, boulders?								
			- 89'-98': slight increase in graphite; brecciated silt-								
			stone								
			- 98'-132': brecciated zone - brecciated siltstone and								
			quartz veins:								

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No.		NTS No.		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 2 of 7	
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.	
Dep.		Depth		Bearing		Dep.		Depth		Bearing			

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.						
			- very dark										
			- minor pyrite, i.e. bedded										
132-140	100%		Shales: fine-bedded (pyritic) and very fine-grained argillaceous black shale, similar to the Black Clastic Unit (UDMs)										
			- graphitic and slightly magnetic										
			- bedding 135° to core axis										
			- 136': 10" pod of pyritic volcanic (rhyolite)										
140-212	100%		Siliceous siltstone: graphitic, as before; no quartz or breccia										
			- 159'-212': fractured and sheared; graphitic and minor bedded pyrite, slightly magnetic										
			- 183'-185': pyritic 1-3% volcanic (rhyolite)										
			- 187': fault gouge										

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No.		NTS No.		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 7	
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.	
Dep.		Depth		Bearing		Dep.		Depth		Bearing			

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.						
212-249½	100%		Mixed zone: siltstones (argillaceous) and alkaline volcanics, fractured and brecciated; very little pyrite. - fault gouge (sand) at 249½'										
249½-253	100%		Dyke: alkaline rhyolite: - large (½") pyrite crystals - flow banded and talcose (↓ to C.A.) - light green, medium hard, fine grained - slightly magnetic										
53½-257			Siltstone: graphitic as before										
257-266			Dyke: as 249'-253'										
66-274½			Shales: argillaceous shales and/or siltstones - graphitic, fine grained and finely laminated; bedded pyrite ~1% along darker laminations										

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property				Project No.		NTS No.	
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 4 of 7	
Lat.		Elev.		Dip.		Lat.		Elev.		Dip.		Hole No.	
Dep.		Depth		Bearing		Dep.		Depth		Bearing			

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.						
274½-277½			Dyke: slightly fractured and altered alkaline rhyolite dyke, i.e. as before										
277½-287			Finely laminated graphitic shales										
287-295½			Rhyolite tuff:										
			- alkaline										
			- flow banding (20° to C.A.)										
			- similar to above dyke material except for flow banding and quartz eyes(?) (½ cm), (pyritic). Contact // to bedding (in lower units 130° to C.A.)										
295½-301			Brecciated shale, minor bedded pyrite (40° to C.A.)										
301-307½			Mixed zone: brecciated gobs of massive pyrite (15%)										
307½-333			Probable mineralized zone:										
			- 308': (6") massive Cp + Py + Po associated with siderite in fracture similar to siderite-Cp in Hole										
			H-2										

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property			Project No	NTS No.	
FIELD COORDINATES			SURVEYED COORDINATES				Sheet 5 of 7	
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No.		
Dep.	Depth	Bearing	Dep.	Depth	Bearing			

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
			- very little Cp-Pb-Zn overall								
			- section includes volcanic breccia and fragmental sulfides (mostly pyrite). Volcanics, light gray and are altered to clay								
			- minor siderite gobs throughout								
			- small 1/2' massive pyrite sections								
33-418			Black shales: graphitic, fine grained and finely laminated:								
			- contains fine to medium bedded pyrite (to 20%) in siliceous layers								
			- bedding is 30° // to core axis; average 45°								
			- 404': bedding is 10° to C.A; slightly magnetic; unit contains sections of no visible bedded pyrite								
18-436			Mixed volcanics and fractured, brecciated shales and argillites; fine talcose, greenish tuffs which contain								

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property			Project No.	NTS No.		
FIELD COORDINATES			SURVEYED COORDINATES				Sheet 6 of 7		
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No.			
Dep.	Depth	Bearing	Dep.	Depth	Bearing				

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
			fine (5-20%) bedded & fragmental pyrite. Unit is weakly magnetic (Po)								
36-461			Mixed shales and argillite: brecciated and quartz veined - minor bedded pyrite (1-3%) - sections of frambodial Py (2 mm) - graphitic, weakly magnetic and minor slickensides								
61-542			Mixed shales and volcanics: - shales as above - alkaline volcanic lens at: 487-469½') - bedded Py) - talcose 476-451½') - massive Py at 481' (1') 486' - fault gouge - 6' sections of volcanics (rhyolites) with massive and bedded pyrite to 20% - massive pyrite and Po (3-5%) at 510' (8")								

NORANDA EXPLORATION COMPANY, LIMITED

Collared 28/08/79	Completed 30/08/79	Core Size BQ	Property Canol Option	Project No 933J	NTS No. 105-F-9
FIELD COORDINATES			SURVEYED COORDINATES		
Lat.	Elev.	Dip -80°	Lat.	Elev.	Dip
Dep.	Depth 256'	Bearing 75° E of N	Dep.	Depth	Bearing
					Hole No. 79-H-2

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
0-27½			Overburden								
27½-31½	100%		Chert breccia: volcanic fragments	5%Py							
			- hard, greyish black fine chert and coarse breccia	1-3%	Sp						
			with pyritic volcanic, tuffaceous fragments								
			- pyrite is framboidal and fragmented; some bedded								
			pyrite (<1%) at 45° to core axis, in chert								
31½-34½	100%		Rhyolite:								
			- light grey, medium hard alkaline volcanic lens(?) /								
			boulder(?)								
			- pyritic								
34½-61	100%		Siliceous siltstone:								
			- brecciated and fragmented								
			- pyritic (2%) along fracture planes	2%Py							
			- light grey, hard and finely laminated (60° to core								
			axis)								

NORANDA EXPLORATION COMPANY, LIMITED

Collared			Completed		Core Size		Property				Project No			NTS No.		
FIELD COORDINATES							SURVEYED COORDINATES							Sheet 2 of 4		
Lat.			Elev.		Dip		Lat.		Elev.		Dip			Hole No.		
Dep.			Depth		Bearing		Dep.		Depth		Bearing					
Footage	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Au	Ag	Pb	Zn	Cu	
61-77	100%		Chert: mineralized - as above													
			- contains some brecciated sections					<1%Py								
77-79	100%		Mineralized section: brecciated chert and chert breccia					25%Py	2'	P1762	.02	1.80	2.73	.85	.03	
			- unit has bedded Py ~5% and veined galena ~1-3%, sid- erite ~2% and coarse pyrite ~ 20% locally					1-3%Gn								
79-85½	100%		Chert: brecciated					Py+Po ~1%								
85½-89	100%		Mineralized section: as above						3.5'	P1755	Tr	Tr	0.09	3.56	.01	
89-91	100%		Siliceous siltstone:													
			- brecciated													
			- colour: as before													
91-118	100%		Mineralized zone: brecciated chert and chert breccia						5'	P1754	.005	1.08	2.18	4.98	.02	
			- disseminated, veined, bedded and massive sulfides						5'	P1756	.005	.12	.29	.72	.01	
			- high Pb-Zn (10-15%) sections						5'	P1757	.01	.72	.05	.01	.01	
			- brown to dark brown sphalerite with galena and						5'	P1758	.03	.44	1.00	.19	.01	
			siderite in fractures and only minor quartz veining						5'	P1759	.01	.08	.10	.18	.01	
									5'	P1760	.02	.88	.89	1.79	.04	

NORANDA EXPLORATION COMPANY, LIMITED

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

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Au	Ag	Pb	Zn	Cu
18-137	100%		Shales: (UDMs) - mixed shales and siltstones - fine grained and laminated shales - brecciated with sulfides along fracture plains	~2%Py							
37-148	100%		Mineralized zone: brecciated chert - low grade section								
48-153	100%		Shales: black pyritic - as above								
53-156.2	100%		Mineralized zone: - siderite veins in brecciated chert and chert breccia - Gn << Cp (~10%), fragments (volcanic). Bedding ~ 60° to core axis		3.2'	1761	.02	6.24	1.13	Tr	.91
56.2-186	100%		Shales: (UDMs) and minor chert pebble conglomerate (1') - fine laminated and brecciated - argillaceous and graphitic								
86-199	100%		Mineralized zone: chert breccia	~1-3%Py							

NORANDA EXPLORATION COMPANY, LIMITED

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

Sheet 4 of 4
Hole No.

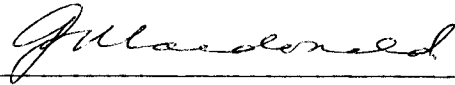
Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
			- low grade								
			- minor siderite and volcanic material								
99-233	100%		Shales: as above bedding (50° to core axis)								
33-234	100%		Quartz vein								
34-256	100%		Shales: as above ~25° to core axis								
			- little bedded pyrite								
			- fractured and sheared								
256			End of hole								

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 December 1979

TYPE OF REPORT Diamond Drilling Phase 1.

a) Wages:

No. of Days 36

Rate per Day \$60.6538

Dates: from to

Total Wages 36 x \$60.6538 2,183.54

b) Food and Accomodation:

No of days 36

Rate per day \$74.382

Dates: from to

Total Cost 36 x \$74.382 2,693.81

c) Transportation:

No of days 36

Rate per day \$126.2119

Dates: from to

Total Cost 36 x \$126.2119 4,543.63

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	<u>439.95</u>

h) Other:

Field & Camp Supplies	2,613.05	
Diamond Drill Contract	21,625.60	
Supervision: D.E. Cross P. Eng. G.E. Dirom 3@226	1,008.00	<u>25,246.65</u>

Total Cost

35,107.58

e) Unit costs for Diamond Drilling

No of days 36

No of units 228.9 m

Unit costs \$153.37518 / m

Total Cost 228.9 m x \$153.37518

35,107.58

Submitted by:

G Macdonald

G. Macdonald,
Geologist.