Q 71498-506

WELCOME NORTH MINES LTD. (N.P.L.)
1027-470 Granville St., Vancouver, B.C. V6C 1V5 Telephone (604) 687-1658

DD-181

RECEIVED
MAR 4 1977
MINING RECORDERS OFFICE
WHITEHORSE, Y.T.

VANGORDA PROJECT

DIAMOND DRILLING REPORT
ON THE
WYNNE 1 - 42 CLAIM GROUP

Latitude 62°23'N Longitude 133°02'W

N.T.S. 105K-6

WHITEHORSE MINING DISTRICT

YUKON TERRITORY

During the Period May 10 - Sept. 1, 1976

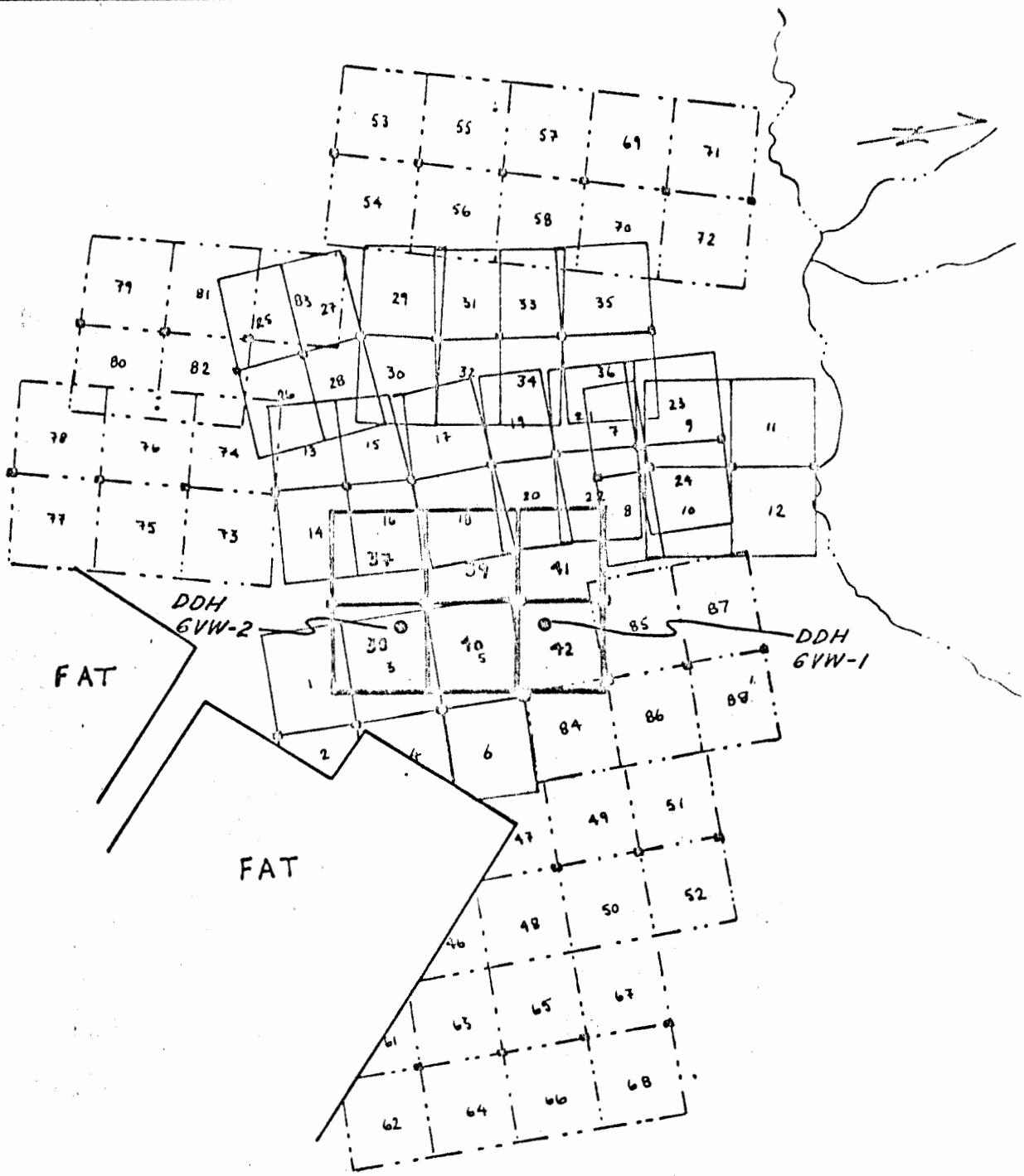
by

F. Foster

February 10, 1977

091252

DD-181



LEGEND

- claim boundary - March 1975
- claim boundary - March 1976
- claim boundary - Sept. 1976
- claim post

WELCOME NORTH MINES LTD.

VANGORDA PROJECT

WYNNE CLAIMS

WYNNE GROUP

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INTRODUCTION

The WYNNE 1-36 claims were staked by Welcome North Mines in February, 1975, and the WYNNE 37-42 claims were later tied on in December, 1975. The property was located over what was considered to be a favourable geologic environment for Anvil-Vangorda type massive sulphide deposits.

The WYNNE 1-36 claims were subsequently joint ventured to Getty Mining Pacific Ltd. in March, 1975 as part of the Vangorda 1975 Project. Under the joint venture agreement, Getty Mining Pacific currently holds a 60 percent working interest in the property, with Welcome North as partner with a 40 percent carried interest. The WYNNE 37-42 claims were staked later in the year under this joint venture agreement.

Welcome North, as operator, during the period July 1, 1975 to August 29, 1975 carried out an exploration program consisting of geological mapping, soil and silt geochemistry surveys and electromagnetic and magnetic surveys.

During the period May 10 to September 1, 1976, Welcome North conducted further linecutting, Turam electromagnetic surveys and gravity surveys, and geological mapping. Following immediate compilation of the preliminary data accumulated, Welcome North staked the WYNNE 45-58 and 62-88 claims during August, 1976. Diamond drilling was carried out in two holes totalling 1,557 feet during the beginning of August, following which drilling was terminated for the 1976 season and the drilling equipment stored on the property.

MINERAL CLAIMS

The WYNNE 1-42 claim group consists of the following 42 contiguous mineral claims located in the Whitehorse Mining District of the Yukon Territory (see Fig. 1).

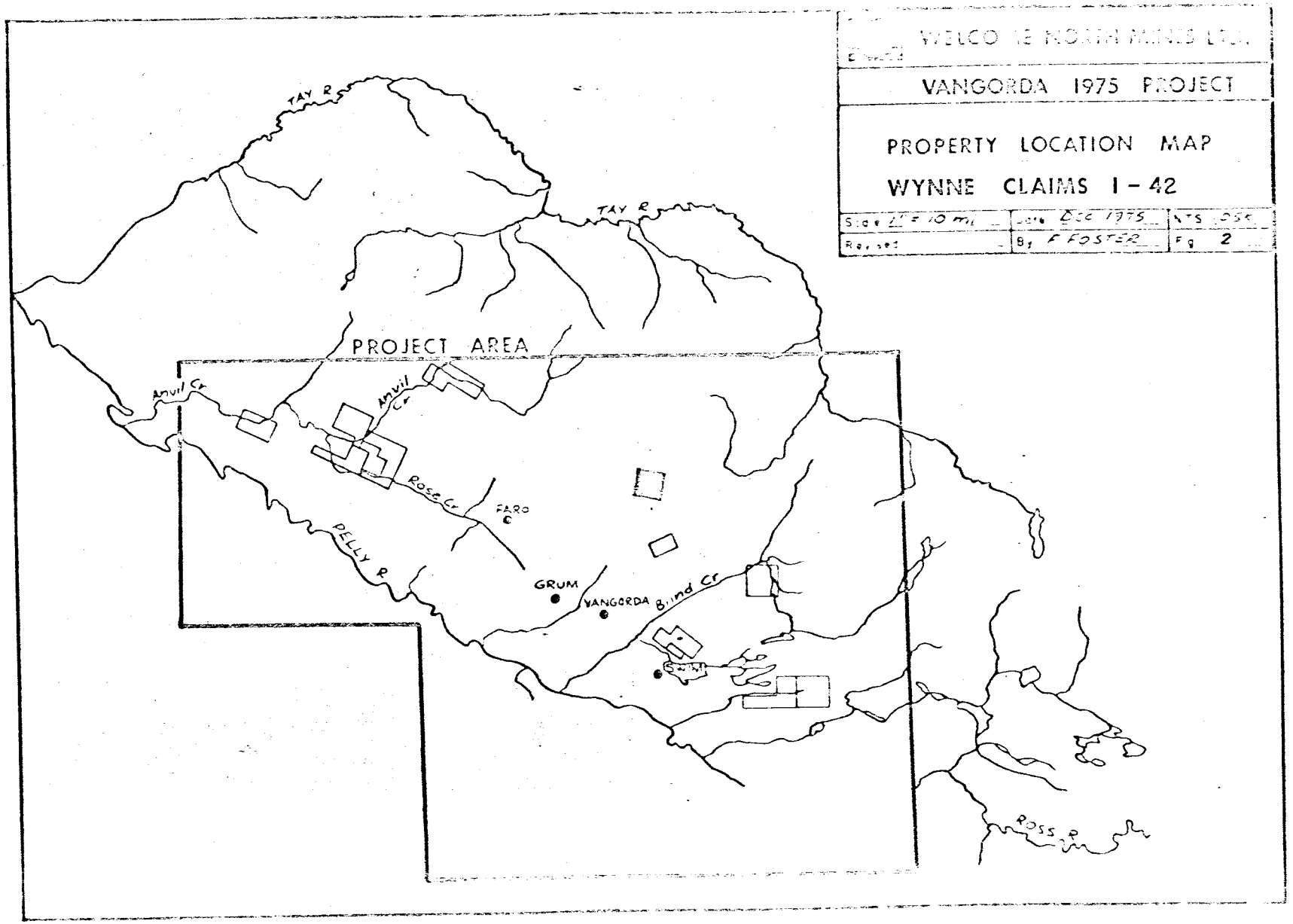
CLAIMS	GRANT NUMBERS	RECORDING DATE
WYNNE 1-36	Y92748-Y92783	Feb. 24, 1975
WYNNE 37-42	YA4128-YA4133	Dec. 8, 1975

LOCATION AND ACCESS

The Wynne 1-42 claims are located in the Whitehorse Mining District of the Yukon Territory (N.T.S. 105K-6) at latitude 62°23'N, and longitude 133°02'W, 125 miles northeast of Whitehorse, Yukon Territory and 13 miles northeast of the town of Faro, Yukon Territory (see Figure 2).

Access to the property can be gained by helicopter from Faro or from the Anvil mine site situated 12 miles west of the property in Rose Creek valley.

The property is located at an elevation of 5000 feet on the north end of a NNE trending ridge five miles north of Mt. Mye. Two-thirds of the property lies above treeline on gently rolling slopes vegetated with buckbrush in their lowermost extremities. Three shallow northerly trending ravines located in the central area of the property expose abundant outcrop along with a large bluff located in the southeast corner of the property. In the western portion of the property outcrop is exposed by local breaks in slope. Below treeline outcrop is scarce and generally restricted to stream cuts.


WELCO IE NORTH MINES LTD.
VANGORDA 1975 PROJECT
PROPERTY LOCATION MAP
WYNNE CLAIMS 1 - 42
Scale 1" = 10 mi
Date Dec 1975
NTS 105K
Revised
By F FOSTER
Fig 2
TAY R
TAY R
PROJECT AREA
Anvil Cr
Anvil Cr
Rose Cr
FARO
PELLY R
GRUM
VANGORDA
Blind Cr
ROSS R

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DIAMOND DRILLING

Diamond drilling totalling 1,557 feet in two holes was conducted during the 1976 field season on the eastern portion of the claim group. Diamond drill holes were positioned using results from a Turam electromagnetic survey and a gravity survey, both of which were conducted during July, 1976 just prior to the drilling. The diamond drill holes were situated as follows and are shown in Fig. 1:

DDH 6VW-1 - location WYNNE Grid 30+25N 37+00E
- drilled at -90°
- depth 1,007 feet
- July 29 - August 3
- WYNNE claim 3

DDH 6VW-2 - location WYNNE Grid 13+00N 37+00E
- drilled at -90°
- depth 550 feet
- August 6 - August 9
- WYNNE claim 42

Diamond drill core was logged on the property, following which the core was transported to Ross River where it was stored in the company warehouse. Diamond drill logs are attached to this report in Appendix "A". Also included with the core logs are keys for codes used in the logs to describe the drill core lithologies.

The diamond drilling completed on the property did not intersect any significant amounts of sulphides and, as a result, no assays were taken. Drilling results indicate that the property is underlain in the north by gently northerly dipping limy biotite-muscovite phyllites containing greenstone lenses, while the southern portion of the property is underlain by more schistose blue-grey phyllites containing greater amounts of quartz and graphite.

Respectfully submitted,

F. Foster

F. Foster

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APPENDIX "A"

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Schist Unit 1

Nomenclature for Core Logging

- label rock with 3 digit code
- first digit for Unit = schist unit = 1
- second digit for sub unit
- third digit for qualifying modifier
- follow these with descriptive terms

Column 2

A Dark biotite-muscovite schist
B Tactite
C Qtzo-Feldspathic biotite-muscovite schist
D Carbonaceous biotite-muscovite-andalusite schist
E Graphitic schist and phyllite
F Metabasite
G Marble

Column 3

1. Siliceous
2. Carbonaceous
3. Calcareous
4. Bleached 3/pyrite on fractures, i.e. white mica envel.
5. Banded
6. Clotted
7. Staurolite bearing
8. Chloritic
9. Sulphide bearing
0. Normal

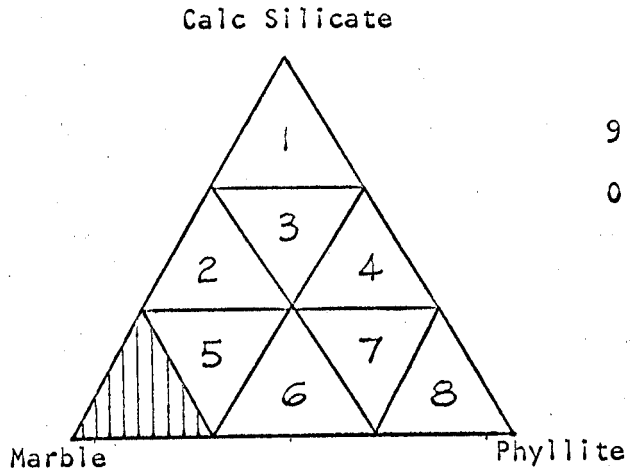
Descriptive Terms

- clino-amphibole bearing
- muscovite biotite bearing ratio
- chiastolite bearing
- garnetiferous
- laminated
- dolomitic
- ortho vs metasomatism
- sulphide species

Calc Silciate (Unit 2)

- specific gravity varies from 2.8 to 3.2
- is enough to cause a large gravity anomaly

Column 3



9 = graphitic

0 = normal

3 column classification - Unit - Subunit - Composition

Column 2

A Transition zone with carbonaceous and bi-musc schist

B Chlorite ± biotite phyllite

C Metabasite of probable igneous origin

D Calc Silicate phyllite

E Graphitic phyllite

F Marble

G Phyllite

Descriptive Terms

- clino-amphibole bearing
- laminated
- dolomitic
- ortho vs metasomatism
- sulphide species

Diamond Drill Record

PAGE 1 of 5

COLLAR:		HOLE SURVEY		
NORTH	30+25	FOOTAGE	AZIMUTH	DIP
EAST	37+00			-90
ELEVATION				
LOGGED BY	F. Foster			
DATE LOGGED	Aug. 3/76			
MAP REFERENCE NO.	105K-6	METHOD:		

COMPANY NAME: WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME: WYNNE
DRILLING CONTRACTOR: CANADIAN LONGYEAR LTD.
ASSAYER:
PURPOSE OF HOLE:

HOLE NO. 76VW-1
CLAIM NAME:
COMMENCED:
FINISHED:
PROJECT NO.:

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	SCHISTOSITY S_1	SCHISTOSITY S_2
0	45		Overburden							
45	164	95	Dark green chlorite phyllite; contains 1/4-1/2" contorted whitish-green bands of limy phyllite. Chlorite-rich laminations containing fine-grained biotite ? vary from less than 1 mm up to 1/4" hairline fractures containing 1 mm thick veins of quartz+calcite cut across S_2 at high angles; some limonite staining on some fracture planes. S_2 parting planes exhibit a high sheen of bluish-grey colour sometimes grading to green. At 77.5' pale green limy chlorite phyllite occurs as a 6" wide band - probably greenstone. 1" bands of this same material occur sporadically throughout the core. Pale green limy phyllite bands contain (frequently) fine grain disseminated pyrite up to 10%; 108-117' - core generally a darker green colour indicating higher biotite + chlorite content. 156-165" - the same. Section weakly graphitic.							
164	190	80	Gouge, badly broken core composes 50% of the rock; core bits contain abundant quartz knots, dark grey to silvery grey phyllite containing hairline partings + fractures of muscovite (yellowish). Moderately graphitic rock.							

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Diamond Drill Record

PAGE 2 C

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH 30+25			-90
EAST 37+00			
ELEVATION			
LOGGED BY F. Foster			
DATE LOGGED Aug. 3/76			
MAP REFERENCE NO. 105K-6	METHOD:		

COMPANY NAME WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME WYNNE
DRILLING CONTRACTOR CANADIAN LONGYEAR LTD.
ASSAYER
PURPOSE OF HOLE

HOLE NO. 76VW-1
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	SCHISTOSITY S_1	SCHISTOSITY S_2
190	390	100	Same as 45-164'; quartz knots much more abundant in the intervals 217-247', 307-324' and 360-390'; slightly graphitic in restricted 1/4-2" bands. Pyrite disseminated within the phyllite and within pale limy green phyllite bands, pyrite also present as coarser grain disseminations in quartz knots. Average pyrite content = 2%. Chalcopyrite sometimes present with pyrite. Chalcopyrite noted at 217'. Slightly graphitic sections associated with quartz intervals mentioned above.							
390	397	100	Muscovite, chlorite, phyllite, 1/4-1/2" quartz bands. Pyrite occurs as buckshot in quartz laminations; estimated content up to 3%.							
397	476	100	Slightly graphitic phyllite; alternating laminae - muscovite-chlorite phyllite + graphitic (weakly blue-grey) bands are laminated 1-3 mm. thick. Quartz rich laminae - thin bands often very contorted which comprise 10% of the rock. These contorted bands contain abundant pyrite 15-30%) but since the bands comprise only 10% of the rock, overall pyrite content is 2-3%.							
476	488	100	"1D4", abundant pyrite in quartz laminations.							
488	529	100	Ankerite, calcitic, greenstone containing little or no pyrite. Pink ankerite clots (porphyroblasts?)							
529	536	100	"1D4", pyrite abundant (5%) in quartz laminations with a blue-grey qtz.							
536	570	100	Same as 488-529'.							

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Diamond Drill Record

COLLAR:
NORTH 30+25
EAST 37+00
ELEVATION
LOGGED BY F. Foster
DATE LOGGED Aug. 3/76
MAP REFERENCE NO. 105K-6

HOLE SURVEY		
FOOTAGE	AZIMUTH	DIP
		-90
METHOD:		

COMPANY NAME WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME WYNNE
DRILLING CONTRACTOR CANADIAN LONGYEAR LTD.
ASSAYER
PURPOSE OF HOLE

HOLE NO. 76VW-1
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				SCHISTOSITY S_1	SCHISTOSITY S_2
570	584	100	"1D4", same as 529-536'.										
584	716	98	Silvery green-grey chlorite phyllite. Slightly graphitic in places.										
			Mainly a pale green chlorite phyllite with dark green-grey laminations										
			from 3 mm-1/4" thick. Gouge at 619'; quartz knots abundant at 584-607'										
			as well as 621-639'. Pale green to white, contorted laminations are										
			absent. Pyrite very fine-grained and disseminated with coarser con-										
			centrations along siliceous laminations. Overall pyrite content up to										
			5%. Occasional leaching; results in honeycombed texture in some										
			siliceous laminations.										
716	739	100	Pale green chlorite-muscovite pyrite; well laminated, gradational contacts,										
			resembles 1D4. Pyrite concentrated in 1-5 mm siliceous laminations.										
			Sometimes occurring as large clots within the phyllite. General										
			concentrations of pyrite irregular since it is related to siliceous										
			laminations.										
739	810	100	Biotite chlorite phyllite; biot. higher than normal, well laminated,										
			dark green-grey; pale green laminations containing muscovite +										
			chlorite up to 1/4". Pyrite occurring in minor siliceous laminations										
			as 15% concentrations; also occurring in cross-cutting quartz-filled										
			fractures and as fine disseminations sporadically throughout the										
			phyllite. Overall concentration of pyrite 3%.										

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Diamond Drill Record

PAGE 4 of 5

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH 30+25			-90
EAST 37+00			
ELEVATION			
LOGGED BY F. Foster			
DATE LOGGED Aug. 3/76			
MAP REFERENCE NO. 105K-6	METHOD:		

COMPANY NAME WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME WYNNE
DRILLING CONTRACTOR CANADIAN LONGYEAR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 76VW-1
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				SCHISTOSITY S_1	SCHISTOSITY S_2
810	818	100	Pale green siliceous greenstone; abundant quartz veining, crystalline texture. Gouge present at 815'. Grinding of core.										
818	827	100	Blue-grey, slightly graphitic badly broken muscovite-chlorite phyllite. Muscovite abundant in hairline fractures. Pyrite content markedly absent.										
827	872	100	Silvery green chlorite phyllite, minor dark green laminations up to 4 mm thick. Pyrite content < 2%; occurs as weak disseminations in felsic bands + on fractures.										
872	907		Pale green chlorite phyllite containing 1/4-1" bands often disrupted by S_2 cleavages; very fine grain; hairline fractures containing yellowish muscovite. Pyrite notably absent except for occasional occurrence along small quartz veins + very fine-grained disseminations within phyllite.										
907	911	100	Pale green chlorite phyllite, containing lesser amounts of dark green banding and more quartz veining. Pyrite associated in minor amounts (<2%) with quartz veins.										
911	916		Heterogeneous chlorite phyllite containing abundant quartz as 1/4" veins and 1" quartz knots; dark green laminations comprise 50% or more of the rock. Laminations irregular and discontinuous and of thickness 1-3 mm. Pyrite occurring only in traces of quartz knots.										

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Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH 30+25			
EAST 37+00			-90
ELEVATION			
LOGGED BY F. Foster			
DATE LOGGED Aug. 3/76			
MAP REFERENCE NO. 105K-6	METHOD:		

COMPANY NAME WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME WYNNE
DRILLING CONTRACTOR CANADIAN LONGYEAR LTD.
ASSAYER
PURPOSE OF HOLE

HOLE NO. 76VW-1
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				SCHISTOSITY S_1	SCHISTOSITY S_2
916	1000	100	Same as 872-907'. Minor pyrite visible on cleavage planes but not so on outside of core. Pyrite content 1-2%. Dark green bands contorted by S_2 vary from 1" to 2 mm in thickness. Small primary sediment breccia zones at 952' cross cut S_2 and S_1. pyrite concentrated on quartz vein 26 at 972'.										
1000	1005	100	Dark green-grey siliceous graphitic (?) marble? Calcite clots and quartz clots. Poorly laminated. None phyllitic but discontinuous banding present.										
1005	1007	100	Same as 916-1000' but less dark green bands.										
			END OF HOLE										

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Diamond Drill Record

PAGE 1 OF 3

COLLAR:		HOLE SURVEY		
		FOOTAGE	AZIMUTH	DIP
NORTH	13+00			-90
EAST	37+00			
ELEVATION				
LOGGED BY	J. Miller/F. Foster			
DATE LOGGED	Aug. 16/76			
MAP REFERENCE NO.	105K-6	METHOD:		

COMPANY NAME: WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME: WYNNE
DRILLING CONTRACTOR: CANADIAN LONGYEAR LTD.
ASSAYER:
PURPOSE OF HOLE:

HOLE NO.: 76VW-2
CLAIM NAME:
COMMENCED:
FINISHED:
PROJECT NO.:

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				SCHISTOSITY S_1	SCHISTOSITY S_2
0	22		Overburden										
22	96	95	Dark grey to black strongly banded, very siliceous phyllite; quartz knots up to 1', bands 1 mm - 1/2", 1 - 2% pyrite in fine stringers // S_2, trace pyrite as 1 mm - 5 mm blebs in quartz knots. Medium grey to white bands are siliceous grading to pure quartz. Quite strongly graphitic, some medium green chloritic bands in places, calc. on some fractures, limonite staining on some fractures.										
96	114	100	Medium grey phyllite. Slight greenish tinge, weakly banded, chloritic in places, siliceous. 2 mm elongate blebs sub- // S_2 of pyrite (trace), quartz knots up to 7" contain chlorite and trace smears of pyrite.										
114	132	95	Badly broken core; medium to dark grey phyllite. Up to 1/2" chlorite bands, rock is often highly contorted. Weakly graphitic; pyrite up to 5%; in places sub // growth to S_2, poorly developed biotite grains on phyllitic partings.										
132	191	100	Same as 96-114', light → medium blue-grey colour bands lower graphitic content, quartz bands up to 1". Trace pyrite in quartz knots and blebs in phyllite.										
191	244	95	Badly broken core, medium blue-grey moderately graphitic phyllite, strongly graphitic in places, lots of chlorite in quartz, quartz knots up to 1", trace of smeared pyrite in quarts - up to 1%; smeared blebs of pyrite on S_2.										

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Diamond Drill Record

PAGE 2 3

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH 13+00			
EAST 37+00			-90
ELEVATION			
LOGGED BY J. Miller/F. Foster			
DATE LOGGED Aug. 16/76			
MAP REFERENCE NO. 105K-6	METHOD:		

COMPANY NAME WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME WYNNE
DRILLING CONTRACTOR CANADIAN LONGYEAR LTD.
ASSAYER
PURPOSE OF HOLE

HOLE NO. 76VW-2
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				SCHISTOSITY S_1	SCHISTOSITY S_2
244	472	90	Light to medium blue-grey phyllite, containing bands that have a fine-grained schistose (mica) development; schist bands are less siliceous. Gradation between low-grade schist (1" – 3') and phyllite, schist has 1 mm blebs of biotite developed on S_2, 2% – trace of pyrrhotite smeared on S_2, trace – 3% in places of smeared pyrite on S_2. Quartz knots up to 1' contain abundant chlorite, biotite and some muscovite, trace – 4% of both pyrite and pyrrhotite as irregular blebs in quartz knots. Schistose bands more massive and containing less light grey to white siliceous laminations. Phyllite is siliceous with abundant 1-2 mm laminations of siliceous material. Darker grey phyllites and schist contain higher pyrite-pyrrhotite content. Colour reflects graphite content?										
472	512	60	Phyllite; highly siliceous, many quartz knots up to 1', top 10' is moderately graphitic (medium dark grey), the rest of medium grey phyllite and weakly developed schist, trace – 5% of pyrite in quartz and other rock, pyrrhotite trace – 7% also in both quartz and other rock, in quartz appears as irregular blebs up to 1 cm, in other rock appears as elongate blebs sub // S_2.										
512	526	60	Fault zone of siliceous, medium-grey phyllite and schist, gouge (same as above).										

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Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH 13+00			-90
EAST 37+00			
ELEVATION			
LOGGED BY J. Miller/F. Foster			
DATE LOGGED Aug. 16/76			
MAP REFERENCE NO. 105K-6	METHOD:		

COMPANY NAME WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME WYNNE
DRILLING CONTRACTOR CANADIAN LONGYEAR LTD.
ASSAYER
PURPOSE OF HOLE

HOLE NO.
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				SCHISTOSITY S_1	SCHISTOSITY S_2
526	550	55	1D4?, light grey – brown-grey, highly siliceous phyllitic-schist, highly chloritic on partings, moderately developed andalusite (pink mica?) in a fault zone (muscovite-chlorite phyllite).										
			END OF HOLE										

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APPENDIX "B"

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CANADIAN LONGYEAR LIMITED
Diamond Core — Percussion — Geotechnical — Industrial Drilling Contractors
NORTH BAY, ONTARIO, CANADA
P.O. BOX 330 — CABLE LONGYEAR
POSTAL CODE P1B 8H6
TELEPHONE 474-2800
TELEX 027-76194

Welcome North Mines Limited,
1027-470 Granville Street,
Vancouver, British Columbia
V6C 1V5

Welcome North Faro
Invoice # 2829
Invoice date: August 13, 1976
for July 1976

terms net 30 days — interest charged at 1% per month on overdue accounts

To: Invoice for diamond drilling performed on mining properties located near Faro, Yukon Territories during period July 16-31, 1976 per agreement dated February 8, 1976 and letter dated June 23, 1976.

Hole No.	Size	From	To	Total	Rate	
6-V-1-1	BQ Wireline	0	713	713	16.50	11,764.50
6-V-1-2	Overburden	0	50	50	16.50	825.00
6-V-1-2	Overburden	50	88	38	Hourly Rate	-
6-V-1-2	BQ Wireline	88	580	492	16.50	8,118.00
6-V-W-1	BQ Wireline	0	577	577	16.50	9,520.50
				1870		30,228.00

Overburden
Hole #6-V-E-2
Diamond recovery re #K52541 (see later invoice (-) CR.

Hole #6-V-1-2

16 hours @ 45.00		720.00	
1 3 7/8 Tricone	80.85		
1 BW Econo Shoe #E1925	75.00		
1 BQ W/L Bit #X56633	223.17		
Setting charge	55.05		
Diamond recovery (see later invoice	(-) CR.		
	434.07		
Plus 12%	52.09		
		486.16	
			1,206.16

Reaming Cave and Cleaning Old Hole
Hole #6-V-E-1
Diamond recovery re #52536 (see later invoice) (-) CR.

Hole #6-V-W-1

4 hours @ 45.00		180.00	
1 BQ Econo Shell #E1709	98.00		
2 BQ W/L Bits X56769-X56767 @ 220.59	441.18		
Setting charge 2 @ 55.05	110.10		
1 BQ W/L Bit X56637	252.41		
Setting charge	55.05		
Diamond recovery (see later invoice)	(-) CR.		
	956.74		
Plus 12%	114.81	1,071.55	
			1,251.55

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CANADIAN LONGYEAR LIMITED
Diamond Core — Percussion — Geotechnical — Industrial Drilling Contractors
NORTH BAY, ONTARIO, CANADA
P.O. BOX 330 — CABLE LONGYEAR
POSTAL CODE P1B 8H6
TELEPHONE 474-2800
TELEX 027-76194

Welcome North Mines Limited
2...

Invoice # 2829

terms net 30 days — interest charged at 1% per month on overdue accounts

Casing and Diamond Articles Left in Hole			
Hole #6-V-1-1			
3 pieces BW 10' casing @ 51.90	155.70		
1 piece BW 5' casing	29.10		
1 BW Econo Shoe #E-2255	75.00		
	259.80		
Plus 12%	31.18		
			290.98
Circulation Operations			
Hole #6-V-1-1 1 hour		45.00	
Hole #6-V-1-2 1 hour		45.00	
Hole #6-V-W-1 1 hour		45.00	
			135.00
Clinometer Tests			
Hole #6-V-1-1 4 tests 200'-400'-600'-713' @ 49.50		198.00	
Hole #6-V-1-2 3 tests 200'-400'-580' @ 49.50		148.50	
Hole #6-V-W-1 2 tests 200'-400' @ 49.50		99.00	
			445.50
Moves Between			
Hole #6-V-E-1 to #6-V-1-1			
23 hours @ 45.00	1,035.00		
24 extra crew hours @ 13.75	330.00		
		1,365.00	
Hole #6-V-1-1 to #6-V-1-2 (Includes waiting for tractor)			
36 hours @ 45.00		1,620.00	
Hole #6-V-1-2 to #6-V-W-1			
53 hours @ 45.00	2,385.00		
54 extra crew hours @ 13.75	742.50		
		3,127.50	
			6,112.50
Move In			
Gas for Tilden Rental (see later invoice)			-
Client Board Account			
132 days @ 12.00			1,584.00

DD-181

CANADIAN LONGYEAR LIMITED
Diamond Core — Percussion — Geotechnical — Industrial Drilling Contractors
NORTH BAY, ONTARIO, CANADA
P.O. BOX 330 — CABLE LONGYEAR
POSTAL CODE P1B 8H6
TELEPHONE 474-2800
TELEX 027-76194

Welcome North Mines Limited
3...

Invoice # 2829

terms net 30 days — interest charged at 1% per month on overdue accounts

Cook (per letter dated June 23, 1976)
P. Druskee July 16-31, 1976
16/31 x $1,400.00 (722.58)

$ 40,531.11

Works applied to Wynne Claims $10,916.05

DD-181

CANADIAN LONGYEAR LIMITED
Diamond Core — Percussion — Geotechnical — Industrial Drilling Contractors
NORTH BAY, ONTARIO, CANADA
P.O. BOX 330 — CABLE LONGYEAR
POSTAL CODE P1B 8H6
TELEPHONE 474-2800
TELEX 027-76194

Welcome North Mines Limited,
1027-470 Granville Street,
Vancouver, British Columbia
V6C 1V5

Welcome North Faro
Invoice # 2935
Invoice date: August 23, 1976
for August 1976

terms net 30 days — interest charged at 1% per month on overdue accounts

To: Invoice for diamond drilling performed on mining properties located near Faro, Yukon Territories, during period August 1-12, 1976 per agreement dated February 8, 1976 and letter dated June 23, 1976.

Hole No.	Size	From	To	Total	Rate	
6-VW-1	BQ Wireline	577	1000	423	16.50	6,979.50
6-VW-1	BQ Wireline	1000	1007	7	18.50	129.50
6-VW-2	BQ Wireline	0	550	550	16.50	9,075.00
				980		16,184.00

Overburden
Hole 6-VE-2
Diamond recovery re K52541 (see later invoice) (-) CR.

Hole 6-V1-2
Diamond recovery re X56633 (see later invoice) (-) CR.

(-) CR.

Reaming Cave and Cleaning Old Hole
Hole 6-V-E-1
~~Diamond recovery re 52536 (222.36) CR.~~
~~Plus 12% (26.68) CR.~~
~~(249.04) CR.~~

Hole 6-V-W-1

4 hours @ 45.00		180.00	
1 BQ W/L Bit X56768	220.59		
Setting charge	55.05		
1 BQ W/L Bit X56628	223.17		
Setting charge	55.05		
Diamond recovery re above and 56767, 56769, 56637 (see later invoice)	(-) CR.		
	553.86		
Plus 12%	66.46		
		620.32	
			800.32

551.28

DD-181

CANADIAN LONGYEAR LIMITED
Diamond Core — Percussion — Geotechnical — Industrial Drilling Contractors
NORTH BAY, ONTARIO, CANADA
P.O. BOX 330 — CABLE LONGYEAR
POSTAL CODE P1B 8H6
TELEPHONE 474-2800
TELEX 027-76194

Welcome North Mines Limited
2...

Invoice # 2935

terms net 30 days — interest charged at 1% per month on overdue accounts

Casing and Diamond Articles Left in Hole			
Hole 6-V-W-1			
1 piece BW 5' casing	29.10		
4 pieces BW 10' casing @ 51.90	207.60		
1 BW Econo Shoe #2163	75.00		
	311.70		
Plus 12%	37.40		
		349.10	
Hole 6-V-W-2			
2 pieces BW 10' casing @ 51.90	103.80		
1 BW Econo Shoe #E-2269	75.00		
	178.80		
Plus 12%	21.46		
		200.26	
			549.36
Clinometer Tests			
Hole 6-V-W-1 3 tests (600'-800'-1000') @ 49.50		148.50	
Hole 6-V-W-2 (200'-400'-550') 3 tests @ 49.50		148.50	
			297.00
Waiting Orders			
Hole 6-V-W-1			
1 hour			45.00
Waterline Maintenance			
Hole 6-V-W-1			
2 hours @ 45.00			90.00
Demobilization			
Lump Sum $4,600.00 x 25%			1,150.00
Cook (per letter dated June 23, 1976)			
August 1-12, 1976 12/31 month x 1,400.00			(541.94)
Moves Between			
Hole 6-V-W-1 to 6-V-W-2			
34 hours @ 45.00	1,530.00		
26 extra crew hours @ 13.75	357.50		
			1,887.50

DD-181

CANADIAN LONGYEAR LIMITED
Diamond Core — Percussion — Geotechnical — Industrial Drilling Contractors
NORTH BAY, ONTARIO, CANADA
P.O. BOX 330 — CABLE LONGYEAR
POSTAL CODE P1B 8H6
TELEPHONE 474-2800
TELEX 027-76194

Welcome North Mines Limited
3...

Invoice # 2935

terms net 30 days — interest charged at 1% per month on overdue accounts

Move Out		
41 hours @ 45.00	1,845.00	
58 extra crew hours @ 13.75	797.50	
		2,642.50
Move In		
Gas for Tilden Rental (attached)		82.90
Client Board Account		
100 1/3 days @ 12.00		1,204.00
		$ 24,141.60

DD-181

WELCOME NORTH MINES LTD. (N.P.L.)
1027-470 Granville St., Vancouver, B.C. V6C 1V5 Telephone (604) 687-1658

AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, Frank Foster, staff geologist, Welcome North Mines Ltd. (N.P.L.) of Vancouver, British Columbia, do hereby state that, to the best of my knowledge and belief, the statement of costs presented in this report (Diamond Drilling Report on the WYNNE 1-42 Claim Group) is both correct and true.

F. Foster

F. Foster

SWORN BEFORE ME at the City of Vancouver, in the Province of British Columbia, this 25 day of February, 1977.

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

DO-181

CERTIFICATE

I, H. Frank Foster, of 3370 Thompson Crescent, West Vancouver, British Columbia, DO HEREBY CERTIFY:

1) That I am a geologist with a business office at 1027 - 470 Granville Street, Vancouver, B.C.

2) That I am a graduate in honours geology of the University of British Columbia (B.Sc. - 1974).

3) That I have practiced my profession as a geologist for the past three years.

4) That to the best of my knowledge and belief, the statement of costs presented in this report, "Diamond Drilling Report on the WYNNE 1-42 Claim Group" is both correct and true.

5) That I hold an interest in the shares of Welcome North Mines Ltd. (N.P.L.), and that I am employed by Welcome North Mines Ltd. (N.P.L.), as a staff geologist.

H. Frank Foster

SWORN BEFORE ME at the City of Vancouver, in the Province of British Columbia, this 25 day of February, 1977.

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

DD-192

WELCOME NORTH MINES LTD. (N.P.L.)
1027-470 Granville St., Vancouver, B.C. V6C 1V5 Telephone (604) 687-1658

RECEIVED
19 AUG 1977
MINING
RECORDERS OFFICE
WHITEHORSE, Y.T.

VANGORDA PROJECT

DIAMOND DRILLING PROGRAM

ON THE

WYNNE 1-88 MINERAL CLAIMS

N.T.S. 105K-6

Office Of The Supervising Mining Recorder
NOV 23 1977
WHITEHORSE
Yukon Territory

WHITEHORSE MINING DISTRICT

YUKON TERRITORY

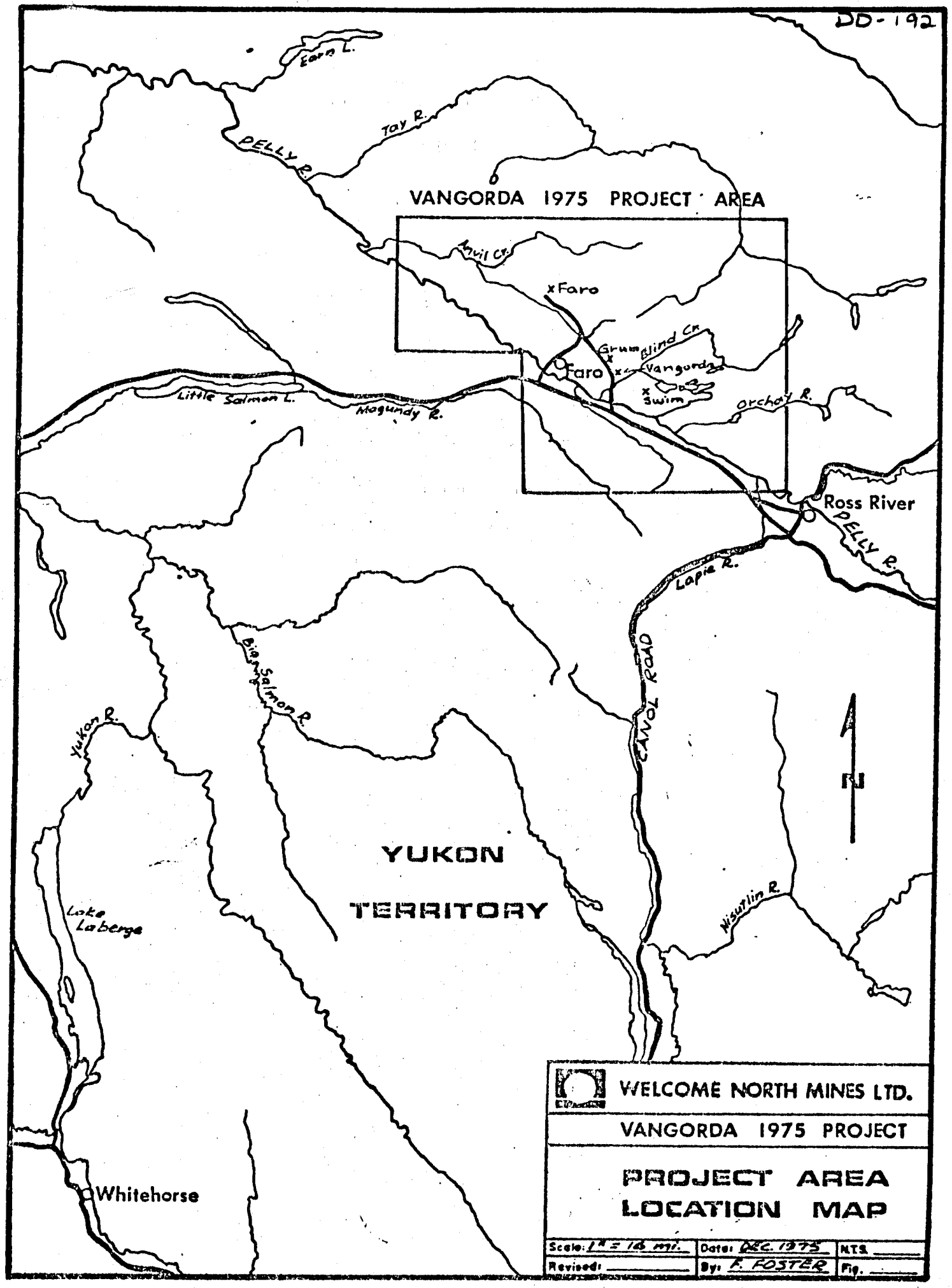
During the period July and August, 1977

by

J.D. Guild, P.Eng.
August 8, 1977

02125

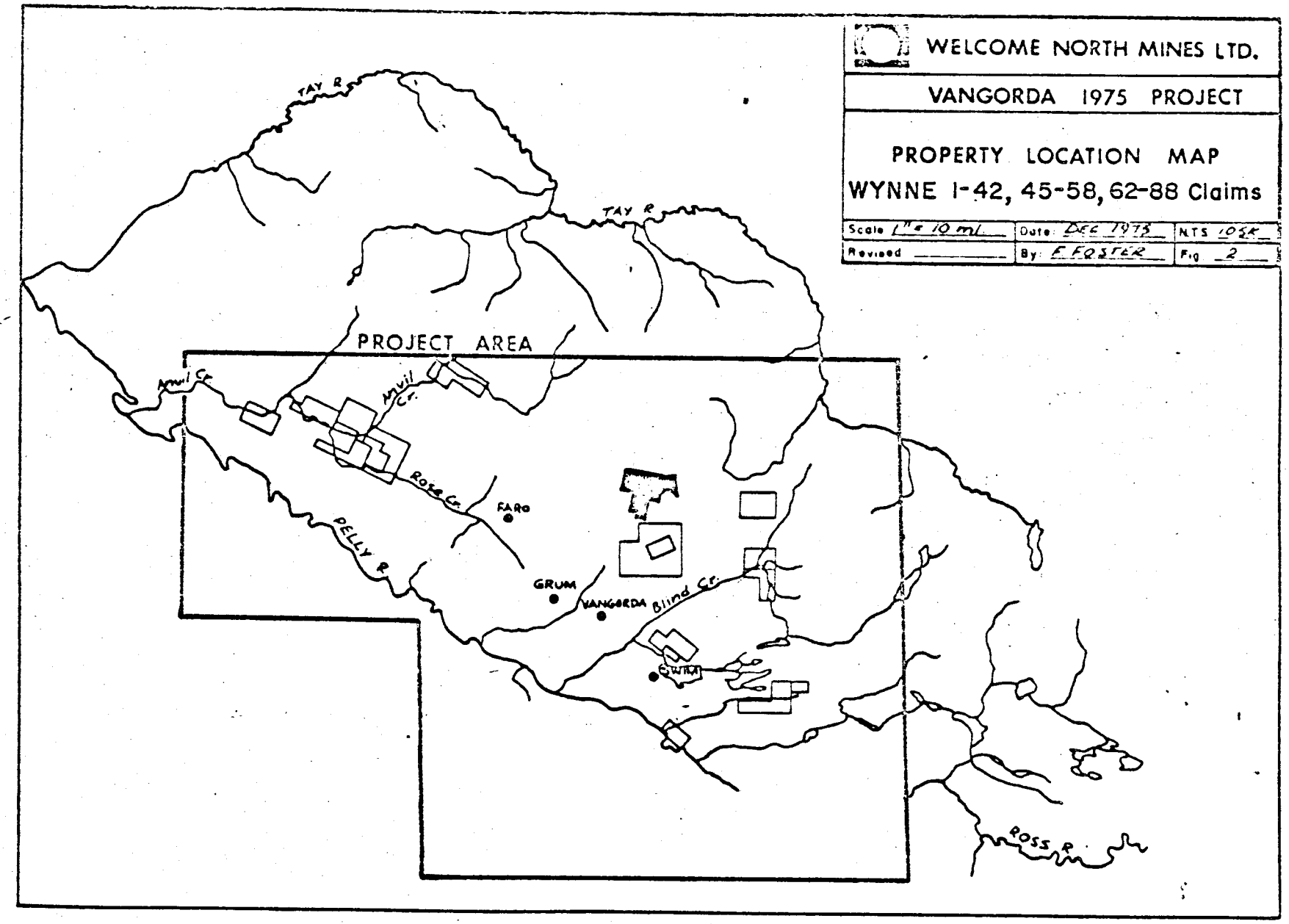
DD-192


Earn L.
Tay R.
PELLY R.
VANGORDA 1975 PROJECT AREA
Anvil Cr.
Faro
Grum
Blind Cr.
Faro
Vangorda
Swim
Little Salmon L.
Nagundy R.
Orchay R.
Ross River
PELLY R.
Lapie R.
CANOL ROAD
Big Salmon R.
Yukon R.
YUKON
TERRITORY
Lake Laberge
Wisutlin R.
N
Whitehorse
WELCOME NORTH MINES LTD.
VANGORDA 1975 PROJECT
PROJECT AREA
LOCATION MAP
Scale: 1" = 16 mi.
Date: DEC. 1975
N.T.S.
Revised:
By: R. FOSTER
Fig.

MINERAL CLAIMS

The WYNNE 1-88 claim group consists of the following 83 contiguous mineral claims located in the Whitehorse Mining District of the Yukon Territory (see Fig. 1).

CLAIMS	GRANT NUMBERS	RECORDING DATE
WYNNE 1-36	Y92748-Y92783	Feb. 24, 1975
WYNNE 37-42	YA4128-YA4133	Dec. 8, 1975
WYNNE 45-58		Aug. 10, 1976
WYNNE 62-83		Aug. 10, 1976
WYNNE 84-88		Aug. 23, 1976


WELCOME NORTH MINES LTD.
VANGORDA 1975 PROJECT
PROPERTY LOCATION MAP
WYNNE 1-42, 45-58, 62-88 Claims
Scale 1" = 10 mi
Date: DEC 1975
NTS 105K
Revised
By: F. FOSTER
Fig 2
PROJECT AREA
TAY R
TAY R
Anvil Cr
Anvil Cr.
ROSS Cr.
FARO
PELLY R
GRUM
VANGORDA
Blind Cr.
CWIM
ROSS R.

DD-192

LOCATION AND ACCESS

The Wynne 1-42 claims are located in the Whitehorse Mining District of the Yukon Territory (N.T.S. 105K-6) at latitude 62°23'N, and longitude 133°02'W, 125 miles northeast of Whitehorse, Yukon Territory and 13 miles northeast of the town of Faro, Yukon Territory (see Figure 2).

Access to the property can be gained by helicopter from Faro or from the Anvil mine site situated 12 miles west of the property in Rose Creek valley.

The property is located at an elevation of 5000 feet on the north end of a NNE trending ridge five miles north of Mt. Mye. Two-thirds of the property lies above treeline on gently rolling slopes vegetated with buckbrush in their lowermost extremities. Three shallow northerly trending ravines located in the central area of the property expose abundant outcrop along with a large bluff located in the southeast corner of the property. In the western portion of the property outcrop is exposed by local breaks in slope. Below treeline outcrop is scarce and generally restricted to stream cuts.

DD-192

DIAMOND DRILLING PROGRAM
ON THE
WYNNE 1-88 MINERAL CLAIMS

DIAMOND DRILLING

Three "BQ" sized diamond drill holes were drilled on the WYNNE Property during the period July 10 to July 23, 1977.

Particulars of the holes are tabulated below:

Hole Number	Location	Grid Co-ordinates		Total Footage
77VW-1	WYNNE # 4	17+70N	47+50E	329'
77VW-2	WYNNE #39	32+50N	26+50E	207'
77VW-3	WYNNE # 3	23+50N	44+99E	398
		Total footage		934'

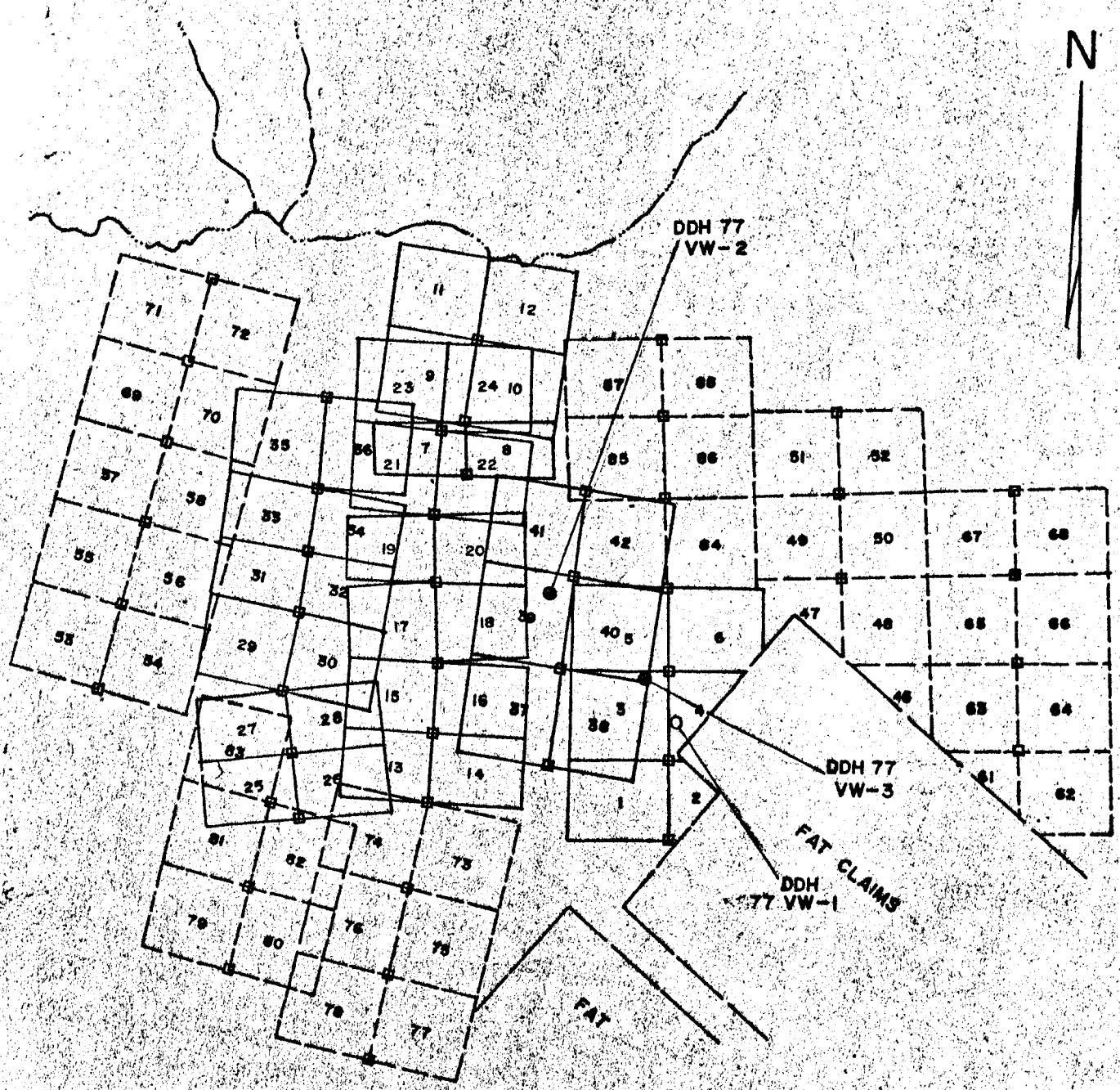
Purpose of the drilling was to test favourable geological formations and geophysical anomalies. Results of the drilling are summarized in the attached geological drill logs and geochemical assays which represent 10 foot sections of the core.

Core from these holes is conventionally marked, boxed, and stored at the Welcome North Mines Ltd. warehouse in Ross River, Yukon.

Attached is a statement of representation work together with supporting receipts and vouchers and/or certified statements of the expenditures involved in the drilling.

Respectfully submitted,

DD-192



WELCOME NORTH MINES LTD.		
VANGORDA PROJECT		
WYNNE CLAIMS		
SCALE 1" = 1/2 mile	DATE AUG. 1977	NTS 105 K/6
BY P.F.	REVISED	FIG.

Diamond Drill Record

DD-192 PAGE 1 OF 2

COLLAR:		HOLE SURVEY		
		FOOTAGE	AZIMUTH	DIP
NORTH 17+70N	GRID.	329'	0	-90°
EAST 47+50E				
ELEVATION 5075'				
LOGGED BY F. Foster & J Guild				
DATE LOGGED				
MAP REFERENCE NO. 105K6		METHOD:		

COMPANY NAME WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME WYNNE
DRILLING CONTRACTOR CANADIAN LONGYEAR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 77 VW-1
CLAIM NAME WYNNE 4
COMMENCED July 10 1977
FINISHED July 14 1977
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	WIDTH	NO.	ASSAYS				Stl	Gn	Ch
0	26.5		OVERBURDEN											
26.5	57	45%	LOOSE BOLDERS over bedrock 48-57' gougey looking mud cementing rock chips											
57	83		CHLORITIC PHYLLITE Broken up bedrock, chloritic, very weakly developed schistosity, quartz absent. Less than 1% py. (77-83) 6" core recovered											
83	190	90%	GRAPHITIC QUARTZ - CHLORITE PHYLLITE - locally schistose & containing talcy sections. Pale grey qtz., occurring as discontinuous, locally lenticular & blebby bands, makes up 25% of rock mass. Occasional qtz knots up to 2" thick. Py. content less than 5%, mainly as smears along cleavage planes. Core recovery in general 90% with loss concentrated in the more graphitic sections, notably: (166-171' 55% CR), (187-198' 30%), (205'-218' 50%), (251-257 50%).											
190	329		GRAPHITIC PHYLLITE - soft, dense black, graphitic, contains irregular discontinuous bands & thin laminae of white quartz											

Diamond Drill Record

DD-192 PAGE 2 OF 2

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME
DRILLING CONTRACTOR CANADIAN LONGYEAR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 77 V W-1
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				Stl	Gn	Chs
190	329	Cont'd	Pyrite content varies from 3 to 10%. The heavier mineralization largely restricted to short (3') sections											
			263 - 276' - quartz rich zone, approximately 25% milky white quartz both parallel to and irregularly cross-cutting schistosity											
			301 - 312' - as 263 - 276'											
			Hole drilled, for the most part, down the dip of the formation.											
	329	End	of Hole.											

DD-192

DDH. 77 V W-1

GEOCHEMICAL ASSAY RESULTS

FROM	TO	P.P.M. Pb	P.P.M. Zn	FROM	TO	P.P.M. Pb	P.P.M. Zn
26.5'	40'	80	2600	310	320	30	310
40	50	52	510	320	330	16	250
50	60	42	280				
60	70	44	370				
70	80	48	400				
80	90	24	260				
90	100	24	270				
100	110	30	320				
110	120	34	470				
120	130	22	310				
130	140	22	260				
140	150	24	280				
150	160	28	160				
160	170	22	230				
170	180	20	230				
180	190	26	270				
190	200	22	250				
200	210	28	410				
210	220	22	350				
220	230	22	460				
230	240	24	420				
240	250	34	320				
250	260	26	220				
260	270	28	810				
270	280	24	230				
280	290	32	280				
290	300	20	380				
300	310	38	710				

DD-142

VANGORDA PROJECT - STRUCTURE L

DDH 77 VW 1 MAP SHEET 105 K-6 LOGGED BY J Gould

LOCATION MC Wynne 4 DATE July 22 1977

FOOTAGE	S_1	S_2	FOLDING	REMARKS
76'		5°		
87'		‖ core axis		
92'		45°	S_2 - "S" shaped	Highly contorted
99		‖		
100 - 107			S_2 - "S"	H.C.
120		10°		Uniform
135		10°		
150		10°		
160		10°		
170 - 177				Slightly undulating
180		20°		
196			S_2 "M" or "Z"	Contorted
200		20°		
205			S_2 "Z"	
230			S_2 "S"	
249		50°	S_2 "S"	
258		40°		
267		20°	S_2 "S"	
267 - 280		0 - 20°		
280'			S_2 "Z"	
290'		35°	S_2 "Z"	
295'			S_2 "S"	
300'		30°		
320		35°	S_2 "Z"	
320 - 329		45°		Relatively uniform schistosity

Diamond Drill Record

DD-192 PAGE 1 OF 2

COLLAR:		HOLE SURVEY		
NORTH 32+50N	GRID	FOOTAGE	AZIMUTH	DIP
EAST 26+50E		207	0	-90°
ELEVATION 5150				
LOGGED BY F. Foster & J. Guild				
DATE LOGGED				
MAP REFERENCE NO. 105K6		METHOD:		

COMPANY NAME WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME WYNNE
DRILLING CONTRACTOR CANADIAN LONGYEAR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 77 V W 2
CLAIM NAME WYNNE 39
COMMENCED July 16, 1977
FINISHED July 20, 1977
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				Stl	Gn	Chs
0	20		Overburden - casing											
20	59		CHLORITE PHYLLITE Dark grey to black, fine grained, soft, phyllitic - banding demarked by alternate bands of black shaley material with light greenish grey muddy(?) bands. In this section the dark bands predominate by 60 to 40% Local white quartz knots & stringers ie. (21-22') 80% quartz, (35-40.5') broken quartz rubble, only 1' of core recovered, (50-51') 50% quartz, (58-58.5') quartz 20'-40' - 30% core recovery 40-59' - 90% " " Mineralization - minor traces of pyrite.											
59	125	95%	CHLORITE PHYLLITE Similar rock to (20-59') contact quite arbitrary, distinguished mainly on the basis of a lighter green-grey colour which reflects an increase in muddy bands to a predominate 75%. Core tends to break on the more shaley bands imparting a greasy shean to core ends											
			Chromite Sp[illegible] [illegible] at 60° to core axis although											

Diamond Drill Record

DD-192 PAGE 2 OF 2

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME
DRILLING CONTRACTOR CANADIAN LONGYEAR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 77YW 2
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				Stl	Gn	Ch
59	125		(Continued) locally contorted (see structural log).											
			Core is cut by knots, irregular veinlets and bands											
			of white bull quartz, notably 68-70', 81-83', 85-91',											
			95-97', 100-101', 106-107', 109-111.5'. Minor gouging											
			& core loss more evident in quartz-rich sections.											
			94-95' - Rusty shear at 60° to core axis.											
			103' - 2" of shear & fault gouge at 60°.											
			Mineralization - very minor pyrite											
125	207		CHLORITE PHYLLITE											
			Similar to section 20-59', gradationally contact											
			with above. In general a decrease in light green											
			grey muddy sections to some 20-30% with a corresponding											
			increase in shaley component which becomes increasingly predominant											
			towards end of hole.											
			Quartz knots & bands not as evident as in above											
			section. Minor calcite associated with quartz present.											
			173' - 7' of core loss, only dark chloritic buttons & chips											
			recovered, some rusty white quartz in association.											
	207		Mineralization - slight increase in py-po from 150 to 207' to approximate											
	End of Hole		1%, occurs as coarse ¼" blotches and crystals within the light green											
			siliceous bands.											

D.D.H 77 VW-2

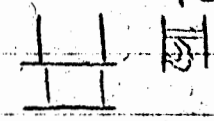
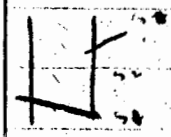
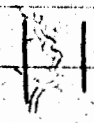
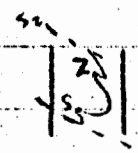
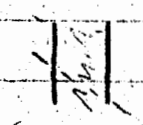
GEOCHEMICAL ASSAY RESULTS

FROM	TO	P.P.M. Pb	Zn
10	20	78	122
20	30	52	160
30	40	170	240
40	50	40	142
50	60	36	166
60	70	42	180
70	80	36	160
80	90	36	150
90	100	40	152
100	110	34	184
110	120	50	220
120	130	156	122
130	140	48	104
140	150	60	136
150	160	152	152
160	170	56	160
170	180	300	122
180	190	44	154
190	200	40	148
200	207	90	140

DD-192

VANGORDA PROJECT - STRUCTURE L

DDH 77 V W 2 MAP SHEET 105 K 6 LOCATION WYNNE CLAIMS LOGGED BY J Gould & F Foster DATE July 27 1977

FOOTAGE	S_1	S_2	FOLDING	REMARKS
20'		35 ✓	S_1 "S" fold	
30'		60° ✓	S_1 "S" fold	
40'	70° ✓	70° ✓		
51'	80° ✓	60° ✓		
60'	70° ✓	70° ✓		
61'			S_1 "Z" fold a few inches below nose	
70'	40° ✓	75° ✓	S_1 - S fold	
76'			S_1 fold nose  76'	
80'	11° ✓	70° ✓		
85'	50° ✓	50° ✓		
90	60° ✓	60° ✓	 100'	
100	Contorted	60° ✓		
110	11° ✓	70° ✓	S_1 M fold 	
120	65° ✓	65° ✓		
130	40° ✓	40° ✓		
140	55° ✓	60° ✓	S_1 "Z" fold	
150	50° ✓	50° ✓		
160	Contorted	55° ✓	S_1 - "M" fold	
170				
180	Contorted	70° ✓	S_1 "M" fold	
190	11° ✓	55° ✓	S_1 "M" fold	
205	70° ✓	70° ✓		

Diamond Drill Record

DD-192 PAGE 1 OF 2

COLLAR:		HOLE SURVEY		
		FOOTAGE	AZIMUTH	DIP
NORTH	23 + 50N	398'	GRID SOUTH	-80
EAST	44 + 00E			
ELEVATION	5300'			
LOGGED BY	F Foster & J Guild			
DATE LOGGED				
MAP REFERENCE NO.	105K6	METHOD:		

COMPANY NAME WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME WYNNE
DRILLING CONTRACTOR CANADIAN LONGYEAR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 77WW-3
CLAIM NAME WYNNE 3
COMMENCED July 21, 1977
FINISHED July 23 1977
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				Stl	Gn	Chs
0	10		Casing - overburden.											
10	32		Chlorite Phyllite - rusty partings, same rock unit as that described below (40' to end of hole)											
32	40		Tuffaceous Phyllite - pale green, thick bedded, sericite-rich, 1mm to 1mm × 1cm quartz shards(?) floating in sub-parallel alignment along cleavage in a tuffaceous matrix. Pyrite in quartz sweats. 70% of this section is composed of vitreous grey silica (quartz) locally crackled & iron stained (33-35') limonite & skeletal qtz., probably sulphide zone.											
40	398		Chlorite Phyllite soft, dark to locally lighter shades of green, very slightly calcareous. Bedding (S_1) relatively apparent throughout the hole, accentuated by pale greenish siliceous material. Darker shaley component concentrated along cleavage (S_2) The following phyllites are interbedded throughout the hole in varying thicknesses in random order: a) Siliceous talcose phyllite consists of .5-3 mm laminations of dark grey shale, quartz, mudstone & talc											

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Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME WELCOME NORTH MINES LTD. - VANGORDA PROJECT
PROPERTY NAME
DRILLING CONTRACTOR CANADIAN LONGYEAR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 77 V W-3
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				Stl	Gn	Chs
40	398	(Continued)	b) less clay - shale & siliceous components dominant no talc, little mudstone											
			c) dominantly shale component											
			d) dominately siliceous & mudstone components, sometimes containing talc. Very little shaly component "tuffaceous mudstone (?) Section 367-398' consists of this rock (d).											
			White quartz (locally with calcite) knots, bands & veinlets occur throughout hole. The following sections contain 20-30% quartz:											
	398		(46-47'), (52-54') (98-100') (109-113') (116-137' - 40% qtz), (142-145)											
	End of hole		(175-177'), (180-181') (229-231') (235-236') (255-257'), (271-272')											
			(273-275') (301-304), (306.5-308.5') (321-324') (341-343), (392-393)											
			NOTE Rods broke off 53' from bottom of hole. Hole abandoned after attempts to retrieve rod failed. Left in hole: (1) BQ core barrel, (1) BQ inner tube & back-end, 40' (4 lengths) BQ rod.											
			Core recovery throughout averages 90-95%. Core losses concentrated in more intensely chloritic sections usually containing broken quartz.											
			Mineralization - minor pyrite usually associated with quartz -											

VANGORDA PROJECT - STRUCTURE LO

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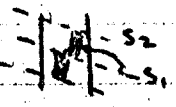
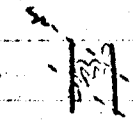
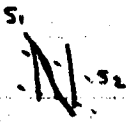
MAP SHEET _____ LOGGED BY JDGould

DDH 77VW3 LOCATION _____ DATE July 29, 1977

FOOTAGE	S_1	S_2	FOLDING	REMARKS
16'	5°	70°		
30'	65°	65°		
40'	60	60°		
50'	10	90°		
60'	0°	75°	S_1 - "S" folding 	S_1 highly contorted.
70'	45°	80°	S_1 - Z folding	
80'	5°	70°		S_1 contorted
92'	45°	45°	S_1 - M folding 	S_1 undulating
105'	0-10°	75°		
115'	35°	70°	S_1 - "S" folded	
125'	10°	60°		
137'	90°	60°		
150'	80°	60°		
161'	45°			
171'	40°	40°		
180'	45	60	S_2 - "S" fold 	S_1 contorted
195'	50	65	S_2 - "S" fold	
203'	90	75°		S_1 contorted nose
207'	5°	70°		
214'	50°			
220'	70°	70°		
230	65	65		
244'	5	55		
249	30°	30° opposite	S_1 "Z" fold	
361	0-30°	60		S_1 contorted
372	20°	85°	S_1 "S" fold	
382	65°	65°		
392	65°	65°		
308	65°	65°		
318	80°	75°	S_1 "M" fold.	
328	Undulating	60°	S_1 "Z" fold	
332	"	60°	S_1 fold nose.	

VANGORDA PROJECT - STRUCTURE LOG

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DDH 77 VW 3

MAP SHEET

LOCATION

LOGGED BY

DATE

FOOTAGE	S_1	S_2	FOLDING	REMARKS
350		55°		
359	Contorted	55°	S_1 - M Fold	
370	10°	60°		
380	60°	85°	S_1 Z Fold	
391	5°	65°	S_1 Z Fold	

D.D.H. 77 VW-3

GEOCHEMICAL ASSAY RESULTS

FROM	TO	P.P.M. Pb	P.P.M. Zn	FROM	TO	P.P.M. Pb	P.P.M. Zn
10'	20'	28	134	280	290	26	110
20	30	76	160	290	300	26	144
30	40	102	122	300	310	32	110
40	50	22	120	310	320	28	140
50	60	26	154	320	330	50	120
60	70	42	132	330	340	24	110
70	80	64	130	340	350	26	124
80	90	76	134	350	360	29	140
90	100	28	160	360	370	41	126
100	110	30	140	370	380	27	146
110	120	24	100	380	390	50	144
120	130	32	132	390	398	50	152
130	140	26	130				
140	150	54	110				
150	160	36	132				
160	170	36	100				
170	180	36	114				
180	190	28	110				
190	200	62	128				
200	210	36	130				
210	220	30	120				
220	230	30	144				
230	240	22	122				
240	250	32	160				
250	260	36	130				
260	270	34	100				
270	280	26	134				

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STATEMENT OF COSTS

WYNNE GROUPS 4, 5, 6, 7 INCLUSIVE FOR THE
PERIOD TO JULY 31, 1977 - Re: Diamond Drilling Program

ASSAYS, ANALYSES	$ 89.60	
CAMP MAINTENANCE	1,966.89	
EXPEDITING	409.68	
DRILLING CONTRACT	1,855.64	
FIELD EQUIPMENT/SUPPLIES	857.31	
FIXED WING AIRCRAFT SUPPORT	121.00	
FUEL	810.17	
LINECUTTING	1,600.00	
ROTARY WING SUPPORT	518.00	
SALARIES & WAGES	4,497.38	
SURVEYS	536.00	
TRANSPORTATION MISC.	2,060.28	
OVERHEAD MISC.	1,713.61	
	TOTAL	$ 17,035.46

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CERTIFICATE

I, John S. Brock, of 3029 Proctor Avenue, West Vancouver, British Columbia, DO HEREBY CERTIFY:

1) That I am a geophysicist with a business office at 1027 - 470 Granville Street, Vancouver, B.C.

2) That I am a graduate in geology and geophysics of the University of British Columbia (B.Sc. - 1964).

3) That I have practiced my profession as a geologist for the past thirteen years.

4) That to the best of my knowledge and belief, the statement of costs presented in this report (Diamond Drilling Program on the WYNNE 1-88 Mineral Claims) is both correct and true.

John S. Brock

SWORN BEFORE ME at the City of Vancouver, in the Province of British Columbia, this 18 day of August, 1977.

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

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WELCOME NORTH MINES LTD. (N.P.L.)
1027-470 Granville St., Vancouver, B.C. V6C 1V5 Telephone (604) 687-1658

AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, John S. Brock, Exploration Manager, Welcome North Mines Ltd. (N.P.L.) of Vancouver, British Columbia, do hereby state that, to the best of my knowledge and belief, the statement of costs presented in this report (Diamond Drilling Program on the WYNNE 1-88 Mineral Claims) is both correct and true.

John S. Brock

SWORN BEFORE ME at the City of Vancouver, in the Province of British Columbia, this 18 of August, 1977.

A Notary Public in and for the Province of British Columbia