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NORANDA EXPLORATION COMPANY, LIMITED
(no personal liability)

REPORT OF WORK
FOR
NORMAN RESOURCES LTD

GRAND BAY OPTION - CASUMMIT LAKE PROPERTY

N.T.S. 52N/8
PROJECT 1307/1B07

RED LAKE DISTRICT
NORTHWESTERN ONTARIO DIVISION

THUNDER BAY, ONTARIO
NOVEMBER 19, 1985

IAN PERRY
PROJECT GEOLOGIST



52N08NW0038

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Table of Contents

	Page
1.0 INTRODUCTION	1
2.0 LOCATION, ACCESS AND TOPOGRAPHY	1
3.0 DESCRIPTION OF PROPERTY	1
4.0 HISTORY AND PREVIOUS WORK	2
5.0 REGIONAL GEOLOGY	2
6.0 PROPERTY GEOLOGY	
6.1 DESCRIPTION OF ROCK UNITS	3
6.2 STRUCTURE AND STRATIGRAPHY	4
6.3 ALTERATION AND MINERALIZATION	4
7.0 ASSAY RESULTS	5
8.0 CONCLUSIONS	7
9.0 RECOMMENDATIONS	8
10.0 PROPOSED EXPENDITURES	9

List of Figures

	Scale
FIGURE 1 LOCATION MAP	1:1,600,000
FIGURE 2 CLAIM MAP	1" = 1/2 mi
FIGURE 3 REGIONAL GEOLOGY	1" = 4 mi
FIGURE 4 NO.3 VEIN SKETCH	1" = 10 ft
FIGURE 5 NO.6 VEIN SKETCH	1" = 10 ft
FIGURE 6 SOUTHEAST PORPHYRY TRENCH SKETCH	1" = 10 ft

List of Maps

MAP 1 PROPERTY GEOLOGY	1:5000
MAP 2 DETAILED GRID GEOLOGY	1" = 200 ft
MAP 3 NO.4 VEIN - TRENCH SKETCH	1" = 10 ft
MAP 4 MAGNETOMETER SURVEY	1" = 200 ft

List of Appendices

APPENDIX I VEIN PRODUCTION STATISTICS
APPENDIX II SAMPLE LOCATIONS AND ASSAY RESULTS

1.0 INTRODUCTION

Between September and November, 1985, a program of linecutting, geological mapping magnetometer surveys and rock sampling was carried out on the Grand Bay Option - Casummit Lake property. This work represents the first phase of the two-phase exploration program outlined in the initial report by C. S. Wallis (August 27, 1985). This report deals with the results obtained in this Phase I program.

2.0 LOCATION, ACCESS AND TOPOGRAPHY

The property is located on the northeast side of Casummit Lake, approximately 110 miles east-northeast of the Town of Red Lake, Ontario.

Access is by float- or ski-equipped aircraft from Red Lake into either Casummit or Richardson Lakes, both of which are of sufficient size to facilitate easy landings and takeoffs.

Topography is typical of the Canadian Shield with gently rolling hills and shallow, drift-filled and occasionally swampy valleys. Maximum relief is in the order of 25-30 meters. Bedrock exposure on the northern part of the claims is in the order of 70%, however in the area surrounding the mine site, exposure drops to approximately 20-25%.

3.0 DESCRIPTION OF CLAIMS

The property is held under an option agreement with Grand Bay Exploration Limited, dated August 16, 1985, whereby Noranda can earn a 100% undivided interest in the property subject to a 3% Net Smelter Royalty by completing a schedule of payments totalling \$75,000 and expenditures totalling \$300,000, on or before January 1, 1989. A minimum advance royalty of \$15,000 per annum commences January 1, 1990.

Norman Resources Ltd has the option of earning 50% interest of Noranda's interest in the Grand Bay property by contributing 75% of the funds expended by Norex in exploration and development, until such time as the funds provided by Norman total \$600,000.

The Grand Bay property consists of 21 patented claims located within the Red Lake Mining District and found on claim map G.1751 - Casummit Lake. In addition to these, Noranda personnel staked three claims along the south boundary of the option block in October, 1985.

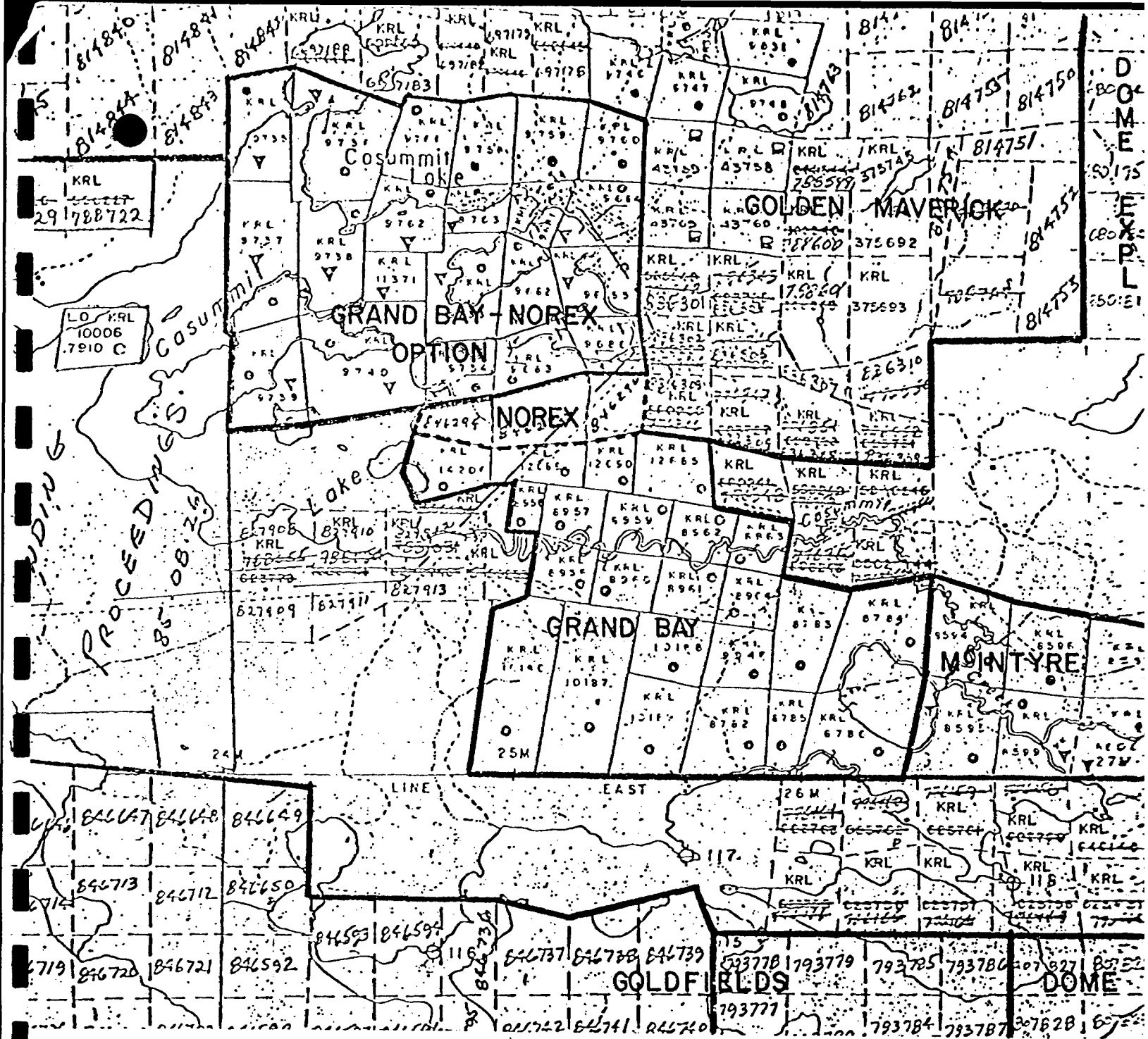


FIGURE 2

REVISED	CLAIM MAP
PROJ.No.: 1307	PROJECT: GRAND BAY OPTION
N.T.S.: 52 N/8	DRAWN BY: R.K. DATE: NOV 1985
SCALE: 1" = 1/2 mile	noranda NORANDA EXPLORATION Co. LTD. - THUNDER BAY

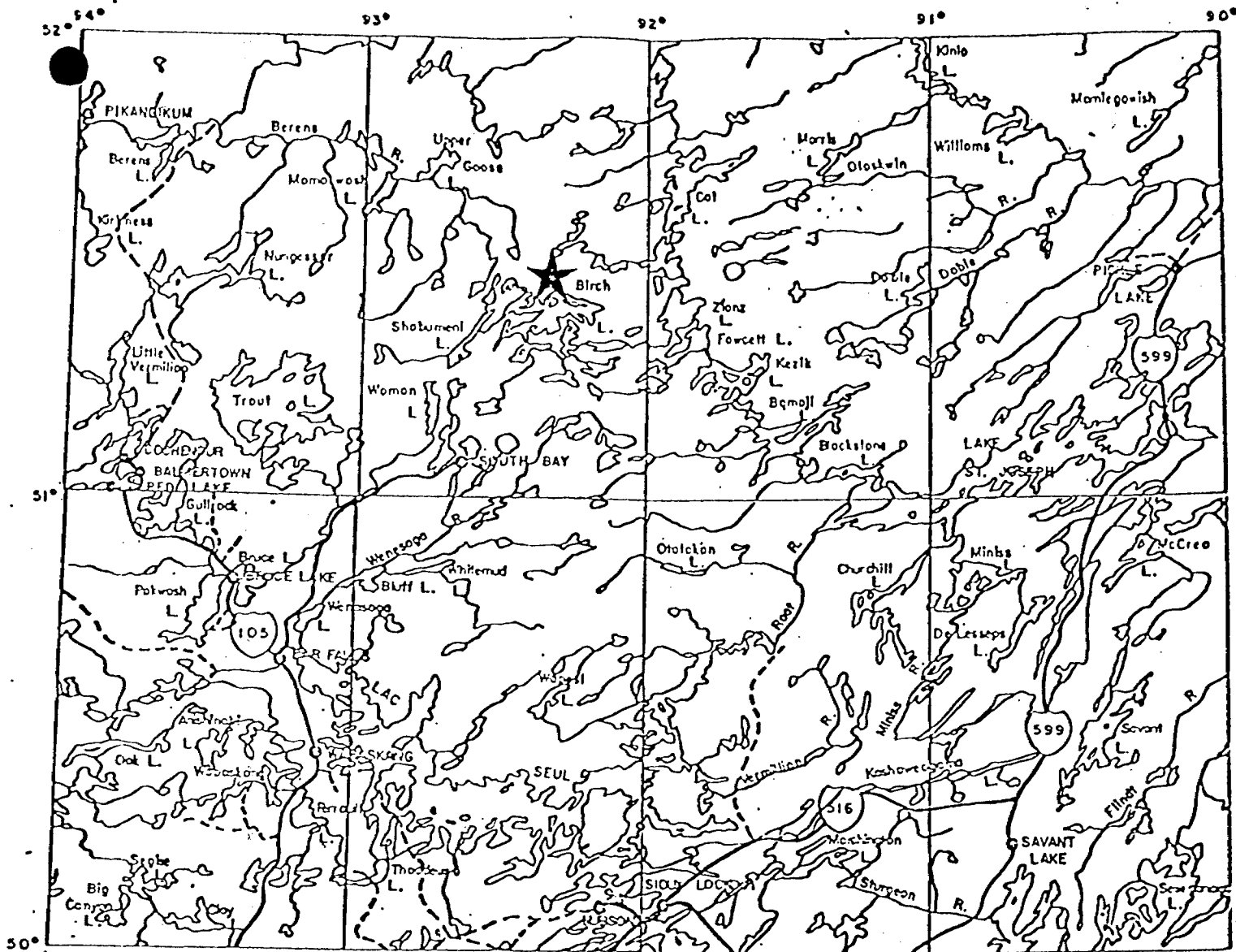


FIGURE 1

REVISED	LOCATION MAP	
PROJ.No.: 1307	PROJECT: GRAND BAY OPTION	
N.T.S.: 52 N / 8	DRAWN BY: R. K.	DATE: NOV 1985
SCALE: 1:1,600,000	noranda NORANDA EXPLORATION Co. LTD. - THUNDER BAY	

Claims are numbered as follows:

Patented Claims

KRL 9681-9686, inclusive
KRL 9733-9740, inclusive
KRL 9758-9763, inclusive
KRL 11371

Unpatented Claims

KRL 846294-296, inclusive

4.0 HISTORY AND PREVIOUS WORK

Gold was first discovered on what is now the Grand Bay property in 1929. Between 1934 and 1952, four companies in succession carried out mining and milling operations on the ground which produced a total of 276,573 tons of ore with an average grade of approximately 0.37 opt Au.

Year	Ownership	Tons of Ore	Avg Grade	Ounces Au
1934	Casey Summit Gold Mines	4,094	.21 opt	888
1935-38	Argosy Gold Mines	43,249	.34 opt	14,835
1938-52	Jason-New Jason Gold Mines	<u>229,230</u>	<u>.375 opt</u>	<u>86,152</u>
	Total	276,573		101,875

After the final closure of the mine in 1952 the property remained dormant until 1975 when Bonnacord Explorations optioned the ground and drilled 5 surface holes on the No.5 Vein.

In 1975 the property was purchased by Grand Bay Explorations Ltd, who drilled three surface holes in 1978.

In November, 1980, Noranda Exploration Company, Limited optioned the property and over the next three years carried out extensive surface exploration, including 18 diamond drill holes. This option was dropped in December, 1983.

Noranda re-optioned the property on August 16, 1985.

5.0 REGIONAL GEOLOGY

The property lies at the extreme northern end of the Confederation Lake-Birch Lake Volcanic Belt, an Archean aged metavolcanic-metasedimentary supracrustal sequence of rocks within the Uchi Subprovince of the Canadian Shield (Figure 3). Although there are currently no active mines in the vicinity, the past year has seen a

remarkable increase in exploration activity with well over 3,000 new claims staked throughout the northeastern portion of the Greenstone Belt. Companies with major land positions in the area include Goldfields, Dome, St. Joe, Kidd Creek and Selco. Previous mining operations in the Belt include the South Bay copper-zinc-silver mine and former gold producers, the Uchi, Jackson Manion, Hudson Patricia, and Sol Dor, all lying within a 60 kilometer radius of the Grand Bay property.

The Casummit Lake area is underlain by mafic to felsic volcanics interbedded with volcanically derived sediments and tuffs as well as some oxide facies iron formations. At least two periods of intrusive activity have been noted in the area; an early quartz porphyry-rhyolite porphyry period, and a later granite and granodiorite phase.

6.0 PROPERTY GEOLOGY

The numbering system of the units used in this report is consistent with that used in the regional mapping program carried out in 1981-82 by Noranda. (Geological Report, Grand Bay Option, A. Dal Bello, March 11, 1982).

6.1 Description of Units

Unit 5: Sandstone, Shale, Iron Formation

Members of this sedimentary package outcrop frequently in the western part of the 1985 detail grid. This unit is thought to represent a series of turbidite flows which typically form in areas of rapid erosion. Each flow consists of a thick bed of unsorted clastic material (i.e. sandstone and argillaceous sandstone) which is overlain by a thinner bed of fine detrital and pelagic material (i.e. shales). The iron formation units, two of which have been found on the grid, represent periods of relative quiescence and non-detrital sedimentation. The thickest of these occurs at the top of the sedimentary sequence marking the period between major erosion and new volcanic activity. The sandstones are normally dark brown, fine to medium grained, and well foliated, consisting mainly of quartz and feldspar with up to 40% fine chlorite and clay minerals. The shale units within the sandstones are normally black to dark green, well foliated and very fine grained.

Both iron formation units observed on the grid are oxide facies consisting of alternating bands, 1 centimeter or less thick, of magnetite and chert with occasional argillaceous bands throughout.

Unit 6: Mafic Volcanics

This unit outcrops extensively across the northern half of the detail grid. The rock type itself is typically olive green, fine grained, and has no distinct foliation. Pillow structures up to 40x25 centimeters are prominent along the northern edge of the property, but on the detail grid the unit more commonly has a brecciated appearance with chilling evident along some of the fragment edges. Considerable SiO₂ enrichment was observed in these rocks in the northeastern

section of the grid.

This unit is thought to lie stratigraphically above the Unit 5 sedimentary package.

Unit 9: Quartz Porphyry

This unit does not outcrop in the area covered by the detail grid, but was sampled extensively during the fall exploration program. The best exposure of the unit is found on a small point of land which protrudes along the east shore of Casummit Lake approximately 200 meters south of the tailings pile. The rock is typically pale green, massive, very fine grained, and extremely siliceous, being composed of approximately 74% SiO₂. Only occasional quartz and feldspar phenocrysts were observed in the rock.

A second similar but very small lens occurs approximately 250 meters south of the "porphyry point" occurrence.

6.2 Structure and Stratigraphy

The geology of that portion of the Grand Bay property covered by the 1985 detail grid is fairly straightforward, consisting of mafic volcanics in the north, underlain by the Unit 5 sediments. The contact between the two units can be traced intermittently across the property by the use of geophysics, since the sediments are capped by a \pm 70 foot thick band of oxide iron formation.

Evidence of three separate tectonic events have been found on the property. The first and strongest event, F1, is represented by a major northwest-southeast trending anticline, the axis of which runs through the center of Casummit Lake. Associated with this structure is a strong foliation parallel to bedding.

The second tectonic event, F2, produced a series of folds trending northeast-southwest, which are most apparent on a regional scale, and represented on the property by a fracture cleavage.

The final and weakest event, F3, formed a closely spaced series of anticlines and synclines with an east-west axial trend, the effects of which are best exemplified by the folded quartz veins in the old mine workings.

6.3 Alteration and Mineralization

All gold mineralization found on the Grand Bay property to date has been associated with north-south trending, 40-60° west dipping quartz veins. These veins are variable in size, ranging from a few centimeters to 2.0 meters in width, and generally less than 200 meters in length, pinching out rather than cut off at the ends. The veins appear to be occupying tensional fractures that were probably formed in response to the F2 folding event.

The gold itself is normally found in the free state and adhering to arsenopyrite crystals within the quartz veins. Only traces

of gold have been found in the wall rocks on either side of the veins regardless of the amount or extent of sulphide mineralization.

Considerable alteration of the wall rocks has been observed within 20 centimeters of the veins with the nature of the alteration varying with the host rock type. In the sandstones, the altered areas develop an olive green colouration caused by the destruction of feldspars and the ferromagnesian minerals. Sericite, arsenopyrite and pyrite are obvious alteration minerals. Alteration of the shaley units turns them from black to dull brown, again with sericite, pyrite and arsenopyrite as well as siderite forming as alteration products.

The quartz porphyry also displays a distinct alteration around the quartz veins. In this unit the colour changes from pale green to yellow-green, with sericite as the main alteration mineral. Sulphide mineralization is sparse within the veins of this unit. Where the veins cut the basalts there is a pronounced lightening in colour of the rocks adjacent to the vein due to the leaching of iron from the rocks, as well as some silicification. Arsenopyrite and pyrite are again common.

To date a total of 10 mineralized quartz veins have been found on the property. These are numbered 1, 2, 3, 4, 5, 6, 7, 8, 11 and P vein. Of these, the No.1, 2 and P veins produced all but 1,876 tons of ore with the remainder coming from minor drifting on the 3, 5 and 8 veins. (See Appendix I for production statistics for each vein).

In accordance with previous recommendations, the 1985 fall program concentrated on cleaning out and sampling the trenches on the No.3, 4, 5, 6 and 8 veins which are thought to have the best potential for economic tonnage of ore. In addition to these, the oxide iron formation immediately underlying the basalt was sampled as extensively as the limited outcrops allowed. Both the mapping and the magnetometer survey carried out in 1985 indicate considerable structural deformation along the strike of the iron formation, with the possibility of additional ore shoots within this member.

Both bodies of quartz porphyry were also extensively channel sampled.

7.0 ASSAY RESULTS

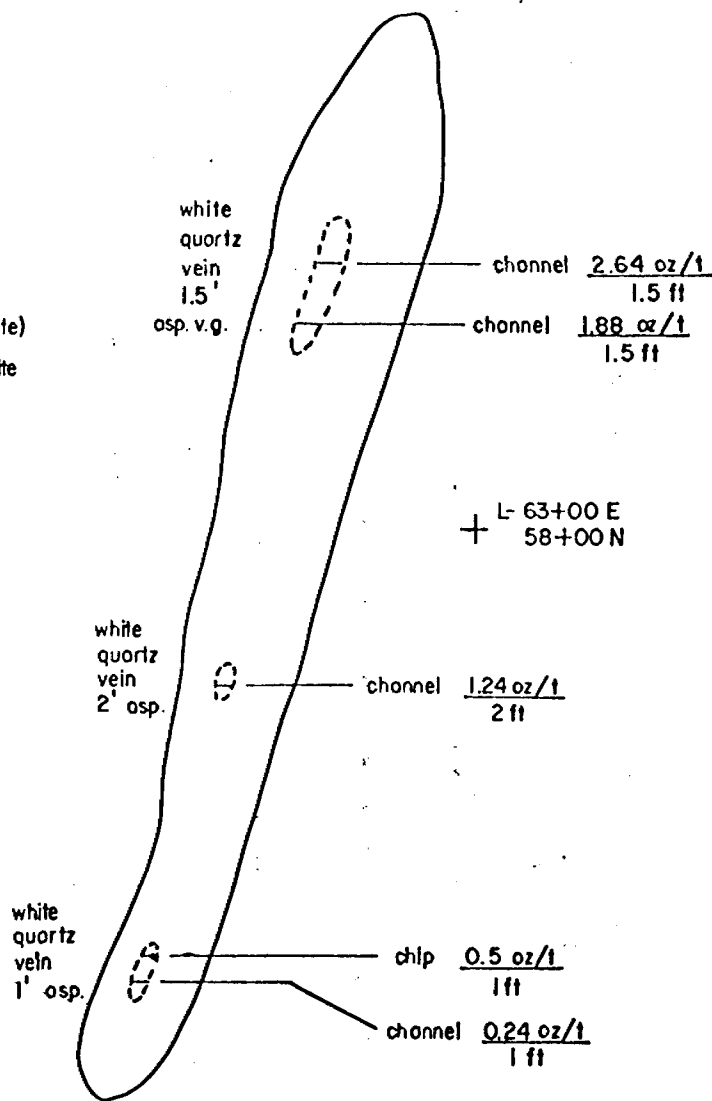
Assay results from the 1985 fall program are encouraging with all sampled veins showing gold mineralization. The best results were obtained from the trench on the No.3 Vein, its only outcrop. The trench is approximately 40 feet long and located at 62+90E, extending from 57+80N to 58+20N. The host rocks are mafic volcanics approximately 50 feet north of the iron formation/volcanic contact. Five channel samples cut in this trench yielded the following values:

WHITE QUARTZ VEIN

crack and seal texture
 varied width < 1'
 strike 355°, dip varied
 arsenopyrite, wollrock,
 carbonate and visible gold
 in fractures

HOST

mafic (breccia and/or hyaloclastite)
 6"-8" carbonate and arsenopyrite
 altered from vein.
 foliation - moderate
 strike 80°, dip 70°-80°



REVISED	# 3 VEIN
PROJ No. 1307	PROJECT: GRAND BAY OPTION
NTS	DRAWN BY <u>R. K.</u> DATE <u>OCT 1985</u>
SCALE 1" = 10'	noranda NORANDA EXPLORATION Co LTD - THUNDER BAY

Sample No.	Custom Fire Assay Cochenour, Ont.	Acme Labs Vancouver, B.C.
28275	2.64 opt/1.5'	.56 opt/1.5'
28276	1.88 opt/1.5'	1.65 opt/1.5'
28277	1.24 opt/2.0'	1.35 opt/2.0'
28278	.50 opt/1.0'	.13 opt/1.0'
28279	.24 opt/1.0'	.10 opt/1.0'

Note: The variation in values between the two labs involved is considered to be caused by the "nugget effect" which is frequently encountered when dealing with free gold in quartz veins.

These results essentially confirm the values encountered in the 5th hole drilled on the No.3 Vein in 1982, which returned an assay of .56 opt/2.7 meters and may indicate a short (<200' long) high grade ore shoot in the vicinity of the vein/iron formation intersection.

The No.4 Vein is exposed in trenches for a distance of 250 feet. Although it is not situated within the area covered by the 1985 detail grid, extrapolation of the grid would locate it at 63+50E, extending from 61+00N to 63+40N. A total of 14 channel samples were taken from this vein, 5 of which ran in excess of .10 opt. These are:

Sample No.	Custom Fire Assay Cochenour, Ont.	Acme Labs Vancouver, B.C.
28265	.22 opt/8"	.105 opt/8"
28268	.58 opt/9"	.619 opt/9"
28269	.46 opt/4"	.138 opt/4"
28270	2.42 opt/4"	3.10 opt/4"
28274	.12 opt/8"	.05 opt/8"

This vein is considerably narrower than the No.3 Vein and tends to pinch and swell.

The No.6 Vein is located at the extreme northern edge of the property and is not tied into the 1985 grid. It is exposed in outcrop for a length of approximately 80 feet on the Grand Bay Property. A total of 7 channel samples were taken from this vein, 5 of which ran in excess of .10 opt Au. These are:

Sample No.	Custom Fire Assay Cochenour, Ont.	Acme Labs Vancouver, B.C.
28280	.12 opt/9"	.086 opt/9"
28281	.34 opt/1.5'	.78 & .17 opt/1.5'
28282	.44 opt/8"	.84 opt/8"
28284	.40 opt/6"	.00 opt/6"
28285	.10 opt/6"	.07 opt/6"

This vein varies from 5 inches to 1.5 feet in width on the property and is up to 2.0 feet wide north of the property boundary.

vein continues

CLAIM BOUNDARY

GRAB — 1.54 oz/t blue quartz vein
0.18 oz/t white quartz vein
0.06 oz/t quartz and wallrock

white quartz vein 5" — channel $\frac{0.04 \text{ oz/t}}{5''}$

white quartz vein 6" — channel $\frac{0.1 \text{ oz/t}}{6''}$

white quartz vein 6" — channel $\frac{0.4 \text{ oz/t}}{6''}$

white quartz vein 14" — channel $\frac{1r.}{14''}$

white quartz vein 8" — channel $\frac{0.44 \text{ oz/t}}{8''}$

white quartz vein 1 1/2' — channel $\frac{0.34 \text{ oz/t}}{1.5'}$

vein grab 0.18 oz/t
wall rock grab 0.18 oz/t

WHITE QUARTZ VEIN

crack and seal texture
arsenopyrite, carbonate
chlorite in fractures
pinch and swell

HOST

mafic (breccia, flows and tuffs)
foliation — strike 80°
dip 70-90 s
altered ~6" from vein
(carbonate, coarse asp.)

white quartz vein 9" — channel $\frac{0.12 \text{ oz/t}}{9''}$

REVISED

6 VEIN

PROJ No 1307

PROJECT GRAND BAY OPTION

N.T.S.

DRAWN BY: R. K. DATE OCT 1985

SCALE
1" = 10'

noranda

NORANDA EXPLORATION Co LTD - THUNDER BAY

The Southeast Porphyry Trench is located along the eastern edge of the property approximately 400 meters south of the No.1 Shaft. This trench cuts a shear zone trending 50-55° Azimuth within the mafic volcanics which contain numerous narrow (1-3 cm wide) quartz stringers, mainly at the extreme south end. The volcanics are strongly foliated and carbonatized with considerable rusty material, possibly ankerite, along shear planes. A small 200x100 foot body of quartz porphyry occurs at the northwestern end of the trench. A total of 17 chip samples were taken across this shear zone. Three of these yielded values above .10 opt Au. These are:

Sample No.	Custom Fire Assay Cochenour, Ont.	Acme Labs Vancouver, B.C.
28248	.14 opt/5.0'	.37 opt/5.0'
28256	.46 opt/5.0'	.493 opt/5.0'
28257	.10 opt/5.0'	.08 opt/5.0'

The quartz stringers within this zone contain abundant arsenopyrite, pyrite and ankerite, from which a grab sample assayed .72 opt Au. The stringers appear to run subparallel to the direction of shearing, trending about 20-30° Azimuth, with westerly dips of 40-60°.

In addition to the quartz veins, numerous samples were collected from each outcrop of iron formation and both quartz porphyry lenses. The iron formation samples returned background values in the 1-20 ppb range. All samples taken from the porphyry bodies returned trace values of gold.

8.0 CONCLUSIONS

The results of the 1985 program and a review of data obtained in earlier work, allow the following conclusions to be drawn:

- 1) There is probably a short high-grade ore shoot within the No.3 Vein in the vicinity of the iron formation/vein intersection.
- 2) The No.4, 5, 6 and 7 Veins, where observed in outcrop, are typically quite narrow with erratic gold values along strike which may limit the economic potential of these veins.
- 3) The No.11 Vein which was encountered in DDH 607-2-83 (.16 opt/1.7m), does not appear to be an extension of the No.2 vein, but is probably a separate vein along the same trend as the No.2 Vein. A similar situation is found approximately 800 feet to the west where the No.3, 4 and 5 Veins all occur within a 150-foot wide N-S trend.
- 4) The quartz stringers encountered in the Southeast Porphyry Trench may be the surface expression of the P Vein which has split from one vein within the porphyry to a series of veinlets and stringers within the carbonatized mafic volcanics.

5) The northern iron formation which extends across the property has never been tested on a systematic basis for gold mineralization. Of particular interest are the tightly folded segments of this formation where brecciation of the chert members would be expected. Gold values ranging up to 0.4 opt were returned from a brecciated, pyrite-bearing cherty iron formation on the Golden Maverick ground located immediately to the north of the Grand Bay property.

6) It is possible that the No.6 and 7 Veins may represent another N-S fracture zone, a zone which may be more pronounced and contain better gold values in the sedimentary unit south of the current trenches. All gold produced to date on the property has come from veins within the Unit 5 sediments and Unit 9 quartz porphyry which appear more susceptible to fracturing than the basalt unit.

7) The zone of silicified mafic volcanics located in the northeast section of the property has not been examined in detail and could host extensions to both the No.1 and No.8 Veins.

9.0 RECOMMENDATIONS

Sufficient encouragement has been received to proceed with Phase II diamond drilling. The following holes are recommended:

1) Two holes should be drilled to further investigate the potential of the No.11 Vein. To date, only one hole (607-2-83) has intersected this vein. It returned values of .16 opt/1.7 meters. Of the two holes recommended, one should intersect the vein approximately 150 feet down dip from the 1983 intersections to determine the dip and continuity of the vein. The second hole should be drilled approximately 100 feet south of Hole 607-2-83 to determine the actual strike of the vein.

2) One hole should be drilled to test the possibility of a high-grade shoot in the No.3 Vein, near the iron formation intersection. This hole should be drilled underneath the 5-3 hole (0.56 opt Au/2.7 meters) and set up to cut the No.3 Vein 150 feet down dip from the 5-3 intersection. This hole should extend approximately 100 feet below the No.3 Vein to intersect the 8-inch quartz vein located on surface 80 feet east of the No.3 Vein.

3) One hole should be drilled at the north end of the No.2 Vein in the vicinity of the iron formation to check the possible higher grades near the vein/iron formation intersection.

4) Six holes ranging from 250 to 400 feet in depth are proposed to test the iron formation for gold mineralization similar to that encountered in the Golden Maverick-Richardson Lake property.

5) Two short holes should be drilled on the Southeast Porphyry stringer zone which yielded assays of up to .49 opt/5.0 feet on surface. These holes should be set up to intersect the stringer zone approximately 150 feet down dip from the surface.

6) The remaining 640 feet will be used as results indicate.

PROPOSED DRILL HOLE LOCATION SUMMARY

HOLE NO.	VEIN NO.	COLLAR LOCATION	HOLE DESCRIPTION		
			AZIMUTH	DIP	DEPTH
1307-86-1	3	5870E/5755N	090°	-60°	450'
1307-86-2	I.F.	6350E/5600N	360°	-45°	300'
1307-86-3	I.F.	6800E/5300N	360°	-45°	400'
1307-86-4	2	6800E/5300N	090°	-60°	300'
1307-86-5	I.F.	6960E/5300N	090°	-45°	300'
1307-86-6	I.F.	7500E/4810N	360°	-45°	250'
1307-86-7	I.F.	7700E/4620N	360°	-45°	250'
1307-86-8	I.F.	7900E/4460N	360°	-45°	250'
1307-86-9	SE PORPHYRY		140°	-60°	250°
1307-86-10	SE PORPHYRY		140°	-60°	250°
1307-86-11	11	6250E/4200N	090°	-60°	375'
1307-86-12	11	6910E/4100N	090°	-60°	250'
Total Footage					3625

10.0 PROPOSED EXPENDITURES - PHASE II

Payment January 1, 1986	\$ 5,000
Overburden Drilling - Tailings	\$ 10,000
Diamond Drilling (1300m @ \$110/m)	\$143,000
Engineering (60 days @ \$250/day)	\$ 15,000
Assaying	<u>\$ 2,000</u>

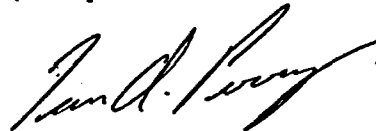
Total \$175,000

Joint Venture Share \$131,250
Administration (15%) \$ 19,700

Joint Venture Share Total \$150,950

Respectfully submitted

NORANDA EXPLORATION COMPANY, LIMITED
(no personal liability)



Ian Perry
Project Geologist-Red Lake District
Northwestern Ontario Division

Thunder Bay, Ontario
November 19, 1985

A P P E N D I X I

VEIN PRODUCTION STATISTICS

No.1 Vein

Avg. Ore Shoot Length - 70 m
Avg. Vein Width - 90 cm
Avg. Assay Value - 0.3 opt
Tonnage Mined - 124,000
Strike - 020°
Dip - 45°W
Development - 9 levels; inclined shaft at 55° to the 4th level and 35° to the 9th level; total vertical depth 274m; level every 30m.

No.2 Vein

Avg. Ore Shoot Length - 150 m
Avg. Vein Width - 75 cm
Avg. Assay Value - 0.35 opt
Tonnage Mined - 100,000
Strike - N-S
Dip - 45°W
Development - 8 levels; vertical shaft to the 3rd level; inclined shaft at 40° to the 8th level; total vertical depth 244m; level every 30m.

P Vein

Avg. Ore Shoot Length - 70 m
Avg. Vein Width - 56 cm
Avg. Assay Value - 0.5 opt
Tonnage Mined - 50,000
Strike - 025°
Dip - 45°W
Development - 4 levels; 5th level at a vertical depth of 193m to the 9th level at a vertical depth of 274 meters; development by way of crosscuts from the No.1 Vein levels.

No.3 Vein

Avg. Ore Shoot Length - 140 m
Avg. Vein Width - 50 cm
Avg. Assay Value - 0.25 opt
Tonnage Mined - 578
Strike - N-S
Dip - 45°W
Development - crosscut from 3rd level No.2 Vein; total of 365m of drifting on this level.

No.4 Vein

Avg. Ore Shoot Length - 15 m
Avg. Vein Width - 38 cm
Avg. Assay Value - 0.4 opt
Tonnage Mined - none
Strike - N-S
Dip - 45°-60W
Development - none
Drilling - none known
Trenching - vein exposed for 240 meters.

No.5 Vein

Avg. Ore Shoot Length - unknown
Avg. Vein Width - 10 cm
Avg. Assay Value - .5 opt
Tonnage Mined - 1,093
Strike - N-S
Dip - 45°W
Development - none
Drilling - five holes by Bonnacord Exploration, 1974
Trenching - vein exposed for 12 meters.

No.7 Vein

Avg. Ore Shoot Length - unknown
Avg. Vein Width - 40 cm
Avg. Assay Value - 0.3 opt
Tonnage Mined - none
Strike - N-S
Dip - 85°W
Development - none
Drilling - none
Trenching - vein exposed for 15 meters.

No.8 Vein

Avg. Ore Shoot Length - 70 m
Avg. Vein Width - 70 cm
Avg. Assay Value - 0.2 opt
Tonnage Mined - 205
Strike - 015°
Dip - 45°W
Development - Crosscut from the 7th level of the No.1 Vein;
approximately 180 meters of drifting was done
on the 7th level; 41 meters of drifting was
done on the 6th level.

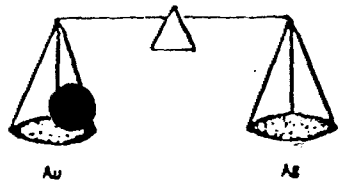
No.11 Vein

- intersected only in Hole 607-83-1
- 0.16 opt over 1.7m

A P P E N D I X I I

SAMPLE LOCATIONS AND ASSAY RESULTS

OCT - 8 1985



PAUL'S CUSTOM FIRE ASSAYING LTD.

Phone: Bus. (807) 662-81
Res. (807) 662-33
ASSAY
1307
IP
BT

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1L0

Noranda Expl.

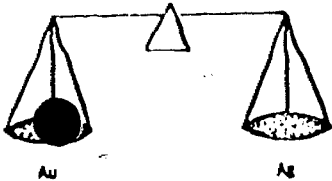
ASSAY CERTIFICATE

Date: Oct. 4-85

Sample No.	Description	oz/ton Au	oz/ton Ag
1 28201	Proj. 1307 & 1B07-E2-15 <i>Small Part.</i>	Trace	

24	28224	.18	
25	28225	.04	

0 111



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Res. (807) 662-33

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1L0

Noranda Expl.

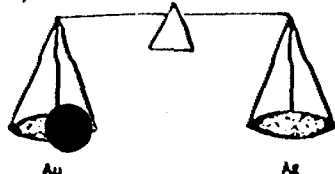
ASSAY CERTIFICATE

Date: Oct. 4-85

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	28226	Proj. #1307-1B07-E2-15	.18	
2	27		.18	
3	28		1.54	
4	29		.18	
5	30		.06	
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

11 200

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PAUL'S CUSTOM FIRE ASSAYING LTD.

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 Res. (807) 662-336

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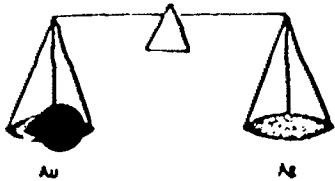
Noranda Expl.

ASSAY CERTIFICATE

Date: Oct. 18-85

Sample No.	Description	oz/ton Au	oz/ton Ag
1 28231	P/O#17255	Trace	
2 32		"	
3 33		"	
4 34		"	
5 35		"	
6 36		"	
7 37		"	
8 38		"	
9 39		"	
10 28240		"	
11 41		.01	
12 42		Trace	
13 43		.08	
14 44	6300E	.62	8" chip
15 45		Trace	
16 46		"	
17 47		"	
18 48		.14	5' chip SW P.
19 49		Trace	
20 50		"	
21 51		"	
22 52		"	
23 53		"	
24 54		.08	
25 55		.01	

0 224 1



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Res. (807) 662-336

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Box 253, Cochenour, Ontario P0V 1L0

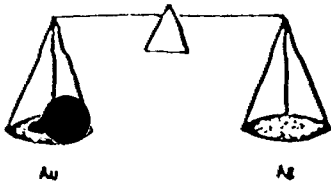
Noranda Expl.

ASSAY CERTIFICATE

Date: Oct. 17-85

Sample No.	Description	oz/ton Au	oz/ton Ag
1	28256 P/O#17255 SWTR	.46	
2	57 "	.10	
3	58	Trace	
4	59	"	
5	60	"	
6	61	"	
7	62	"	
8	63	"	
9	64	.04	
10	65 #4 TR	.22	8" chem
11	66 "	.04	
12	67 "	Trace	
13	68 "	.58	9 "
14	69	.46	4 "
15	70	2.42	14 "
16	71	Trace	
17	72	.01	
18	73	.01	
19	74 #4	.12	8 "
20	75 #3	2.64	7.5'
21	76	1.88	1.5'
22	77	1.24	2.0'
23	78	.50	1' deep
24	79]	.24	1' chem
25	80 #6	.12	9" chem

D. L. L. 1.



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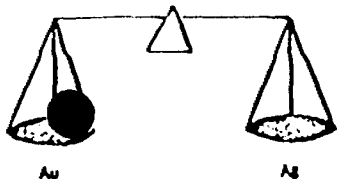
Noranda Expl.

ASSAY CERTIFICATE

Date: Oct. 17-85

Sample No.	Description	oz/ton Au	oz/ton Ag
1	28281 P/O#17255 #6 V.	.34	1 1/2' ch
2	82	.44	8" ch
3	83	Trace	-
4	84	.40	6" ch
5	85	.10	6"
6	86	.04	
7	87	.48	8" chip
8	88	.06	
9	89	Trace	
10	90	.04	
11	91	Trace	
12	92	"	
13	93	"	
14	94	"	
15	95	"	
16	96 #5 V _{er}	.12	4"
17	97	Trace	
18	98	"	
19	99 77480E, 4640M Fe Fm	.42	
20	28300	Trace	
21	01	.08	
22	02	Trace	
23	03	1.18	
24	04	Trace	
25	05	.08	

P. 1.02



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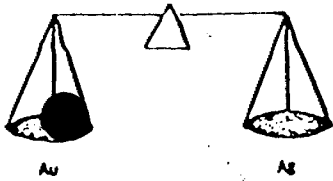
Noranda Expl.

ASSAY CERTIFICATE

Date: Oct. 17-85

Sample No.	Description	oz/ton Au	oz/ton Ag
1 28306	P/0#17255	Trace	
2 07		"	
3 08		.10	
4 09		Trace	
5 10		.14	
6 11		.48	
7 12		.04	
8 13		.62	
9 14		.26	
10 15		.02	
11 16		.06	
12 17		.08	
13 18		.06	
14 19		.01	
15 20		.02	
16 21		.01	
17 22		Trace	
18 23		"	
19 24		"	
20 25		.02	
21 26		Trace	
22 27		.01	
23 28		Trace	
24 29		"	
25 30		.02	

Handwritten signature or initials



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Box 253, Cochenour, Ontario POV 1L0

Noranda Expl.

ASSAY CERTIFICATE

Date: Oct. 17-85

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Sample No.	Description	oz/ton Au	oz/ton Ag
1	28331 P/O#17255	Trace	
2	32	"	
3	33	.02	
4	34	Trace	
5	35	"	
6	36	.08	
7	37	.08	
8	38	.08	
9	39	.06	
10	40	Trace	
11	41	"	
12	42	"	
13	43	"	
14	44	"	
15	45	"	
16	46	"	
17	47	"	
18	48	"	
19	49	"	
20	50	"	
21	51	"	
22	52	"	
23		X	
24			
25			

P. Okanski

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: (604) 253-3158 COMPUTER LINE: 251-1011

DATE RECEIVED NOV 7 1985

DATE REPORTS MAILED

NOV 12 1985

NOV 18 1985
ASS
E
B

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PULVERIZED TO -100 MESH.
Au# - 10 GM, IGNITED, HOT AQUA REGIA LEACHED, MIBK EXTRACTION, AA ANALYSIS.

ASSAYER Tom Saundry DEAN TOYE OR TOM SAUNDRY, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION PROJECT 1307-11307-E4-15 FILE# 85-3051 PAGE# 1

SAMPLE	Au# ppb
28358	2
28359	47
28360	1
28361	8
28362	2
28363	2
28364	1
28365	12
28366	11
28367	4
28368	7
28369	8
28370	2
28371	805
28372	2220
28373	3300
28374	390
28375	2960
28376	240
28377	24800
28378	490

NOV 19 1985
ASSAY (307)

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
F (604) 253-3158 COMPUTER LINE: 251-1011

DATE RECEIVED NOV 13 1985
DATE REPORTS MAILED Nov. 14/85

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE TYPE : PULP
Au* - 10 GM, 16NITED, HOT AQUA REGIA LEACHED, MIBK EXTRACTION, AA ANALYSIS.

ASSAYER V. Saundry DEAN TOYE OR TOM SAUNDRY, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION PROJECT 1307-1B07-E4-15 FILE# 85-3096 PAGE# 1

SAMPLE	Au* ppb
28244	9600
28248	12700
28256	16900
28257	2800
28265	3600
28268	21200
28269	4750
28270	106200
28274	1700
28275	19200
28276	56500
28277	46400
28278	4600
28279	3450
28280	2950
28281	26900
28282	28100
28284	1850
28285	2400
28310	3900
28311	18200
28313	21700
28314	10400
28341	240
28342	16
28343	11
28344	3

*Significant nugget effect evident.
Remn on 28281 :- 6,000 ppb.*

TO: Custom FRO Assay

FROM: NORANDA EXPLORATION CO. LTD.
P.O. BOX 2656
THUNDER BAY, ONTARIO
P7B 5G2

SAMPLED BY: J.P. G.C.
PROJECT CODE: 1307

PURCHASE ORDER NO. 17255
DATE: A

Sample Location		Description	Analyse For				Lab. Instructions	Sample Number
N.T.S.	Claim Group							
	South Porphyry	Minor	ASP	etc	minerals	etc	28201	
#7	View	volcanic	3%	ASP	CRAB	CRAB	28224	
#7	View	"	1%	ASP	CRAB	CRAB	25	
#6	View - South end		1%	ASP	etc		26	
#6	View	"		Major	Al ₂ O ₃	Calcite	27	
#6	View	Middle			Ore View	1% ASP	28	
#6	View	NORTH END			Ore View	1% ASP	29	
#6	View	"			well	etc	28230	

REMARKS:

No 0169

White Copy - Lab. Yellow Copy - Office Pink Copy - Field

FORM NO. 00001

TO: STUM FIRE ASSAY
CORCORAN OIL

FROM: **NORANDA EXPLORATION CO. LTD.**
 P.O. BOX 2658
 THUNDER BAY, ONTARIO
 P7B 5G2

SAMPLED BY: T.S.L.C.
 PROJECT CODE: 1307

PURCHASE ORDER NO. 17255
 DATE: _____

N.T.S.	Sample Location Claim Group	Description	Analyse For				Lab. Instructions	Sample Number
			Au					
28231	N.vein 6.8' ± 3	channel (5') porphyry	with	ds. asp	minor	wg. v. g. ssan.		Tr.
32	" " "	(3.8')	"	"	"	"		"
33	" " "	(3.0')	"	"	"	"		"
34	Porphyry Point at	channel (4.7') porphyry	minor	qtz - tr.	< 1%	ds. asp.		"
35	" " "	(4.3')	"	"	"	"		"
36	" " "	(4.0')	"	"	"	"		"
37	" " "	(4.5')	"	"	"	"		"
38	" " "	(4.0')	"	"	"	"		"
39	" " "	(3.5')	"	"	"	"		"
40	Porphyry Point 63	+ 50' E 58° W N 8" chip	wg. v. cl. & seal	minor	carb. asp.			"
41	" " "	" " "	"	"	"	"		.01
42	" " "	" " "	"	"	"	"		Tr.
43	" " "	" " "	"	"	"	"		.08
44	" " "	" " "	"	"	"	"		.62
45	S.E. Porph. Lense	Tr. Chip (1')	porphyry	wg. str.	< 1%	ds. asp.		Tr.
46	" " "	" " (5')	ds. asp. & carb.	2.5' cut	heated	mat. & v. ds. asp. & carb.		"
47	" " "	Tr. Chip (5')	carb. & heated	bl. & red mat.	wg. str.	< 1%		"
48	" " "	" " (5')	"	"	"	"		.14
49	" " "	" " (5')	"	"	"	"		Tr.
50	" " "	" " (5')	"	"	"	"		"
51	" " "	" " (5')	"	"	"	"		"
52	" " "	" " (5')	"	"	"	"		"
53	" " "	" " (5')	"	"	"	"		"
54	" " "	" " (5')	"	"	"	"		.08
55	" " "	" " (5')	"	"	"	"		.01
56	" " "	" " (5')	"	"	"	"		heavy matrix
57	" " "	" " (5')	dec. & some carb.	bone	minor	SiO ₂ & carb.		.10
58	" " "	" " (5')	"	"	"	"		Tr.
59	" " "	" " (5')	"	"	"	"		"
60	" " "	channel (5')	porphyry	wg. str.	< 1%	< 1% ds. asp.		"
61	" " "	" " (5')	"	"	"	"		"
62	" " "	" " (3')	"	"	"	"		"
63	" " "	" " (5')	"	"	"	"		"
64	#4 vein Tr. (2')	channel - wg. v. carb.	rock & seal	carb. wall	rock & asp	along tract.		.04
65	" " "	" " (8')	"	"	"	"		.22
66	" " "	" " (2')	"	"	"	"		.04
67	" " "	" " (3')	"	"	"	"		Tr.

REMARKS: _____

No 0161

TO: Custom 100 Assay
Cochrane Ont.

FROM: NORANDA EXPLORATION CO. LTD.
 P.O. BOX 2656
 THUNDER BAY, ONTARIO
 P7B 5G2

SAMPLED BY: T.P.G.C.
 PROJECT CODE: 1307

PURCHASE ORDER NO. 17255.
 DATE: _____

N.T.S.	Sample Location Claim Group	Description	Analyse For				Lab. Instructions	Sample Number
68	#4 vein Tr. channel (3')	wgv, crack + seal carb, wallrock	32	act			.58	
69		(19")					.46	
70		(14")					2.42	
71		(14")					Tr	
72		(2")					.01	
73		(5")					.01	
74		(7")					.12	
75	#3 vein Tr channel (1.5')						2.54	
76		(1.5')					1.88	
77		(2')					1.24	
78		chip (1")					.50	
79		channel (1")					.24	
80	#6 vein Tr. channel (9")	wgv crack seal, carb asp (19")					.12	
81		(13")					.34	
82		(8")					.44	
83		(14")					Tr	
84		(6")					.40	
85		(6")					.10	
86		(5")					.04	
87		chip (8")					.48	
88		" (11")					.06	
89	#7 vein Tr. chip (10")	harder? wgv, < 10 asp, + carb. interact.					Tr	
90	" " " "	(6 1/2")					.04	
91	L 77+65F 44+30N	channel (4") grey work, carb altered by v's	< 12	py	< 95	sp	Tr	
92	" " " "	(14")					"	
93		(5.3')					"	
94		(5.3')					"	
95	#5 vein (cut to DDH 1-3 Water)	(2' channel - by v's 2" in carb altered grey work)					"	
96	" " " "	(4") " - by v's wgv					.12	
97	Red. py point	(10" channel - wgv < 170 asp)					Tr	
98	" " " "	(10")					"	
99	L 77+80E 46+40N	Grab, I.F. 19% py cubes argillite	6	6	6	6	.42	
4300	L 67+40E 53+60N	" " " "	"	"	"	"	"	
01	L 57+50E 53+90N	Grab, Bx in grey work, < 12 asp	#5	vein	ext.	?	.08	
02	" " " "	" grey work, carb altered, < 170 asp	py				Tr	
03	#1 Ho. Frame	" Bgv, < 150 asp. v.b.					1.18	
04	#4 Vein Tr. channel (2')	wgv, a matrix crack seal, striations up to 6"					Tr	

REMARKS:

No 0162

Cochran Ont
SAMPLED BY: J.P. GC.
PROJECT CODE: 1307

PURCHASE ORDER NO. 17255.
DATE:

Sample Location		Description	Analyse For				Lab. Instructions	Sample Number
N.T.S.	Claim Group							
24309	#4 main Tr.	channel (2') w/sgt	(26")	in matrix	red	resp.	.08	
08	#5 main outside	" (2') hgv.	ingrey	work	3-4"	quartz	Tr	
09	"	(5') hgv				stunges	Tr	
08	"	(6")					.10	
09	"	(1")					Tr	
10	"	(15 IN)					.14	
11	"	(25)					.48	
12	"	(45)					.04	
13	"	(2N)					.62	
14	"	(3N)					.26	
15	665E 4500N	" hgv					.02	
16	"	(2')					.06	
17	"	(3')					.08	
18	"	(4')					.06	
19	667E	" (1')					.01	
20	"	(2')					.02	
21	"	(3')					.01	
22	"	(4')					Tr	
23	669E	" (1')					"	
24	"	(2')					"	
25	"	(3')					.02	
26	"	(4')					Tr	
27	671E	" (1')					.01	
28	"	(2')					Tr	
29	"	(3')					"	
30	"	(4')					.02	
31	673E 4600N	(2')					Tr	
32	"	(4')					"	
33	674E 4620N	(2')					.02	
34	"	(3')					Tr	
35	"	(4')					"	
36	674.50E 4710N	(1')					.08	
37	"	(2')					.08	
38	"	(3')					.08	
39	674.50E 4710N	(1')					.06	
40	660E 58425N	channel (5') hgv, in grey matrix, stunges	<1"				Tr	
41	661E 58425N	channel (5') Mag. I.F.					"	

REMARKS:

No 0163

TO: Geological Assay
Geological Assay

FROM: NORANDA EXPLORATION CO. LTD.
 P.O. BOX 2658
 THUNDER BAY, ONTARIO
 P7B 5G2

SAMPLED BY: J.P. B.C.
 PROJECT: 1307

PURCHASE ORDER NO. 17255
 DATE: _____

Sample Location		Description	Analyse For				Lab. Instructions	Sample Number
N.T.S.	Claim Group							
28342	L 6 DE 58450N	channel 15' mag. I.f.					Tc	
43	" "	" 15'					"	
44	" "	" 15'					"	
45	Line 58450N	15' 12' channel contact grey calc. I.f. - sub (17.4)					"	
46	51-21E 58450N	Basal Till.					"	
47	# 4 main Tr.	channel wall rock sample (sample 279000)					"	
48							"	
49							"	
50							"	
51							"	
52							"	
53	100' road #4 Tr.	note flow near contact.					"	
54	20' #W 7150N	at base. - contact with contact. 17.4					"	
55	10125N160E	275' north I.F. note calc.					"	
56	480E 51425N	5:00, enriched with lead					"	
57	160E 58430N	C-1 I.F. - 50' Bay calc contact					"	
58							"	
59							"	
60							"	
61							"	
62							"	
63							"	
64							"	
65							"	
66							"	
67							"	
68							"	
69							"	
70							"	
71							"	
72							"	
73							"	
74							"	
75							"	
76							"	
77							"	
78							"	
79							"	
80							"	
81							"	
82							"	
83							"	
84							"	
85							"	
86							"	
87							"	
88							"	
89							"	
90							"	
91							"	
92							"	
93							"	
94							"	
95							"	
96							"	
97							"	
98							"	
99							"	
100							"	

REMARKS:

No 0164

TO: W. J. ...
Vancouver B.C.

FROM: NORANDA EXPLORATION CO. LTD.
 P.O. BOX 2656
 THUNDER BAY, ONTARIO
 P7B 5G2

SAMPLED BY: IP + DP
 PROJECT NO: 1307-1B07

PURCHASE ORDER NO. 13387
 DATE: Nov 1/85

Sample Location		Description	Analyse For				Lab. Instructions	Sample Number
N.T.S.	Claim Group		Al	Fe	S	P		
62+15E/57+60N		3.0' CHIP → MAG. CHIT I.F.	Rusty	Amorphous?			2	28358
62+15E/57+63N		3.0' CHIP → " " " "	"	"	"	"	47	54
62+15E/57+66N		3.0' CHIP → " " " "	"	"	"	"	1	60
62+15E/57+69N		4.0' CHAINNEL → " " " "	"	"	"	"	8	61
67+15E/57+73N		3.0' CHIP → " " " "	"	"	"	"	2	62
66+25E/54+50N		5.0' CHIP → MAG. CHIT I.F.	Some	ARGILLACIOUS			2	63
66+25E/54+55N		5.0' CHIP → " " " "	"	"	"	"	1	64
66+25E/54+60N		5.0' CHIP → " " " "	"	"	"	"	12	65
74+70E/49+10N		3.0' CHIP → MAG. CHIT I.F.	VERY	RUSTY			11	66
74+70E/49+13N		3.0' CHIP → " " " "	"	"	"	"	4	67
77+80E/46+30N		GRAB SAND O.C. I.F.	WITH	Py	Cu	80S	7	68
77+80E/46+34N		" MIDDLE O.C. CHIT - MAG. I.F.					8	69
77+80E/46+37N		" NORTH O.C. " " " "	"	"	"	"	2	70
GE PERPH -		SAND TRENCH WEST WALL 5' CHIP.	SILIC	VA	10%	ASP. ANK. Qtz STR.		805 71
"		" - 5' CHIP N OF 58371 - ON W 2' of	SILIC	VA	10%	ASP. ANK. Qtz STR.		2220 72
"		" - 3.0' CHIP E WALL BY OFFSHOOT	NOT	SAMPLED	28575	→ VA SIL. Qtz STR. ASP.		353306 73
"		" - 5.0' CHIP EAST FACE OF B. EXTENSION	MINOR	ASP	Qtz	ANK. IN SIL. VA.		390 74
"		" - 3.0' CHIP S OF 28573 -	SILIC	VA	MINOR	ASP ANK. Qtz STR. IN SIL. VA.		2960 75
"		" GRAB BENT MAIN SILIC VA	10%	ASP.	NO	Qtz - FROM SAND TR.		240 76
"		" " " " " " " " " " Qtz	STR.	5-10%	ANK.			24800 77
"		" FROM EAST EXTENSION - N WALL	SILIC	VA	ASP	ANK. Qtz.		490 78

REMARKS:

N^o 0166

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FORM NO. 00001

TO: LEGHUR
VANCOUVER

FROM: NORANDA EXPLORATION CO. LTD.
 P.O. BOX 2656
 THUNDER BAY, ONTARIO
 P7B 5G2

SAMPLED BY: G.C.
 PROJECT: 1307-11307

PURCHASE ORDER NO. 13390
 DATE: Nov 11/65

N.T.S.	Sample Location Claim Group	Description	Analyse For			Lab. Instructions	Sample Number
			ALU	ACH			
282	44	63+50E 58+50W	(8" CHIP)	.62	.28		
-	48	S.E. FOR. LEASE	(5' CHIP)	.14	.37		
-	56	"	(5' CHIP)	.46	.493		
-	57	"	(5' CHIP)	.10	.08		
-	65	#4 VEIN	(8" CHAN)	.22	.105		
-	68	"	(3' CHAN)	.58	.619		
-	69	"	(9" CHAN)	.46	.138		
-	70	"	(4" CHAN)	2.48	3.10		
-	74	"	(7" CHAN)	.12	.049		
-	75	#3 VEIN	(1.5' CHAN)	2.64	.56		
-	76	"	(1.5' CHAN)	1.88	1.649		
-	77	"	(2' CHAN)	1.24	1.354		
-	78	"	(1' CHAN)	.50	.134		
-	79	"	(1' CHAN)	.24	.10		
-	80	#6 VEIN	(9" CHAN)	.12	.086		
-	81	"	(1 1/2' CHAN)	.34	.78 or .17		
-	82	"	(8" CHAN)	.44	.84		
-	84	"	(6" CHAN)	.40	.05		
-	85	"	(6" CHAN)	.10	.07		
283	10	CONCENTRATOR	(1S, 1N)	.14	.11		
-	11	"	(2S)	.48	.53		
-	13	"	(2N)	.62	.63		
-	14	"	(3N)	.26	.30		
-	41	L60E 58+50W	(5' CHAN) MAG I.F.	Tr	240	ppb	
-	42	"	"	Tr	16	"	
-	43	"	"	Tr	11	"	
-	44	"	"	Tr	13	"	

REMARKS:

No 0167

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