

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,347

12/86

ASSESSMENT REPORT

DRILLING ON THE

REBAR 2 MINERAL CLAIM

N.T.S. 82L/10E

Lat. 50° ^{37.5'} ~~38.30~~ N Long. 118° 34' W

VERNON MINING DIVISION

FILMED

MINISTRY OF ENERGY, MINES
AND PETROLEUM RESOURCES
Rec'd MAR 26 1986
SUBJECT _____
FILE _____
VANCOUVER, B.C.

Owner : J. Leask

Operator: Noranda Exploration Company, Limited (no personal liability)

Author : J. McDonald

Date : February, 1986

TABLE OF CONTENTS

- 1.0 INTRODUCTION
- 2.0 LOCATION AND ACCESS
- 3.0 TOPOGRAPHY AND VEGETATION
- 4.0 CLAIM INFORMATION
- 5.0 DRILLING
- 6.0 CONCLUSION

APPENDICES

Appendix 1: Statement of Costs

Appendix 2: Statement of Qualifications

Appendix 3: Drill Logs

Drawing 1: Drill Section Rebar D.D.H. 8 & 9 Scale 1:500

Map 1 : Drill Hole Location Scale 1:10,000

1.0 INTRODUCTION

During December of 1985 two (NQ) diamond drill holes were drilled on the Rebar 2 (20 units) mineral claim. The holes were drilled to test the possibility that quartzite boulders carrying high zinc values are located insitu, thus the holes were spotted so that they would intercept the proper stratigraphy (i.e. the quartzite unit) in the immediate vicinity of the zinc rich boulders. All core is stored on the property at the old John Howard Society camp.

2.0 LOCATION AND ACCESS

The Rebar mineral claim is roughly centered about Long. 118°34'W and Lat. 50°37'30"N, on N.T.S. Mapsheet 82L/10E. The claim is located about 50 km northeast of Lumby and is accessed via the Mabel Lake logging road for 50 km northward and the Cottonwood Creek logging road for 8 km eastward. Further access is made by skidder trails and on foot.

3.0 TOPOGRAPHY AND VEGETATION

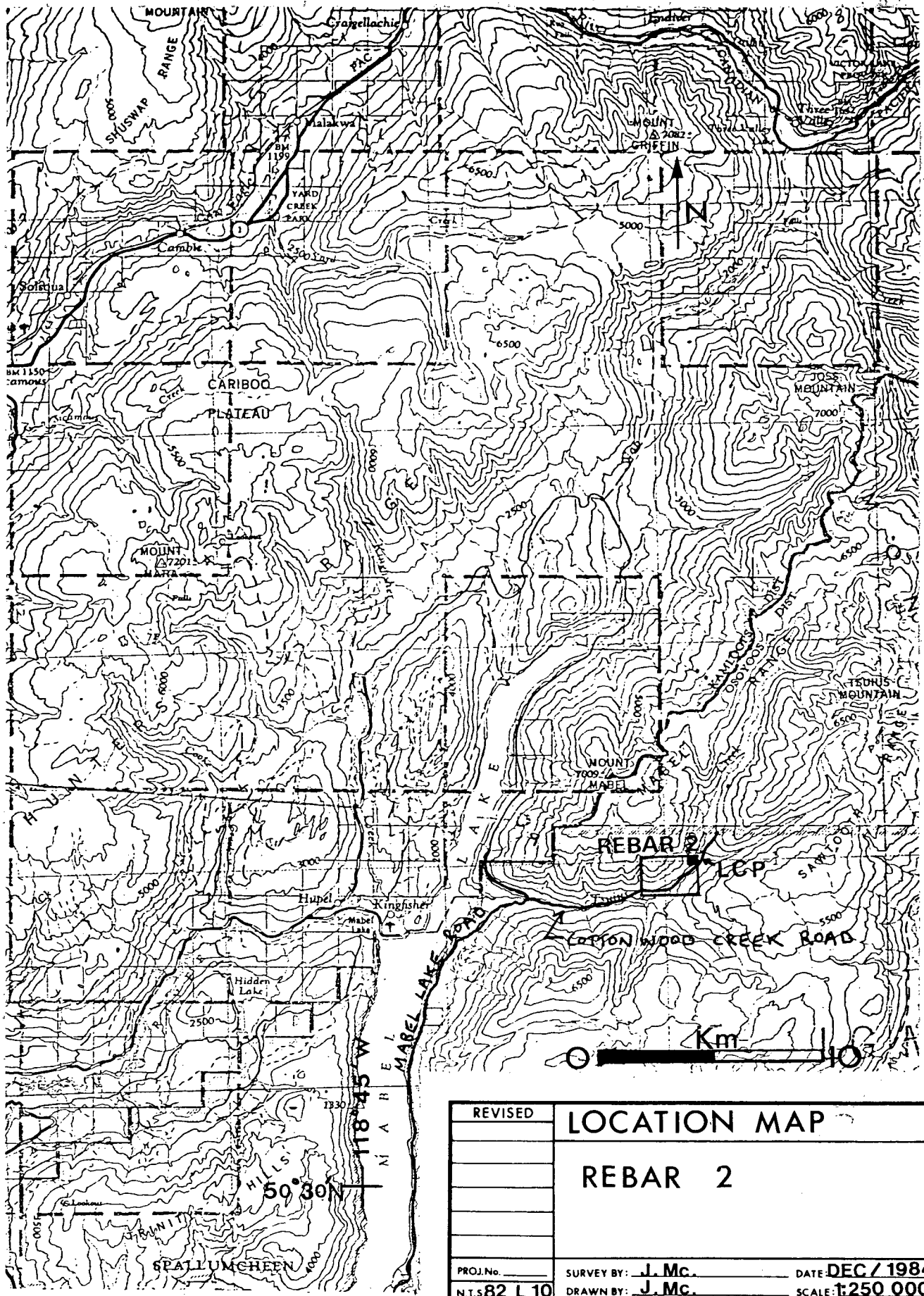
The topography on the Rebar 2 mineral claim is moderate to steep with a maximum relief of about 500 m and slopes ranging from 20° to 45°. The majority of the claim is overgrown with second growth cedar, fir and alder, with the western portion of the claim covered with mature Douglas fir.

4.0 CLAIM INFORMATION

The Rebar 2 mineral claim, consisting of 20 units, is owned by John Leask of 843 West 15th. Avenue, Vancouver, B.C. and was staked by him during June, 1983. It is part of the Rebar-Sherpa group of claims.

Claim Name	Record Number	Record Date
Sherpa 1	1304	November 4, 1982
Sherpa 2	1305	November 4, 1982
Rebar 1 & 2	1528-29	June 21, 1983
Rebar 3	1576	August 25, 1983
Rebar 4	1619	November 15, 1983
Rebar 200-500	1654-57	December 2, 1983

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REVISED	LOCATION MAP	
	REBAR 2	
PROJ. No. _____	SURVEY BY: J. Mc.	DATE: DEC / 1984
N.T.S. 82 L 10	DRAWN BY: J. Mc.	SCALE: 1:250 000
DWG. No. _____	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	

5.0 DRILLING

Several boulders of quartzite with disseminated to massive amounts of stratiform sphalerite occur on the Rebar 2 mineral claim. These boulders contain regular sericitic partings that would cause them to break down into small boulders or cobbles, if transported over a large distance. The boulders on the Rebar 2 are generally quite large, up to 1.5 m across, and so probably have travelled only a short distance. This leaves three possibilities for the boulder origin:

1. The boulders have been transported a short distance to their present location by mechanical transport via rock fall.
2. The boulders have been mechanically transported a greater distance by glacial ice movement.
3. The boulders are essentially in situ and their position in outcrop is covered by overburden.

Previous geochemical, geophysical, mapping, and prospecting surveys have tested the first and second possibilities and failed to reveal the boulders' source. Thus, to test the third possibility, two holes were spotted amidst the location of the high grade zinc boulders, to intercept known quartzite horizons since the zinc is hosted in quartzite boulders.

The first drill hole, Rebar DDH 85-8 (L.16400E/9142N), was collared in a quartzite and was projected to intercept a second quartzite at 45 m, and a third quartzite at 114 m. The third projected intersection was coincident with a weak HLEM conductor. The second hole Rebar DDH 85-9 (L.16400E/9295N), was collared in calcite marble and was projected to hit quartzite units at 40 m, 47 m, and 140 m. Both holes were drilled at -70° at a 180° azimuth.

In Rebar DDH 85-8 the first quartzite encountered was 19 m thick (0-19 m) and consisted mainly of quartz with lesser amounts of diopside, graphite, and calcite. The second quartzite was encountered, as expected, at 45.56 m to 53.46 m, a fault zone cut through this quartzite from 45.56 m to 52.44 m and appeared to have a reverse sense of movement. The third quartzite was not encountered at all, however, the weak HLEM conductor that coincided with it was caused by a graphitic mylonitized fault zone intersected from 106.22 m to 109.40 m. It is likely that the quartzite in outcrop was faulted off by this zone.

Rebar DDH 85-9 did not encounter the graphitic quartzite as expected at 40 and 47 m. This interval was replaced by a quartz-biotite-gneiss with frequent sills and dykes of pegmatite, which was intercepted from 26.57 m to 45.95 m and was fault bounded at it's lower contact. Further downhole two thin quartzite horizons were encountered, the first from 118.39 m to 122.14 m and the second from 140.24 m to 141.68 m. The lower quartzite was fault bounded at it's lower contact. It was projected that only one quartzite should be encountered in this part of the hole, the intersection of an additional quartzite at 118.39 m to 122.14 m may be attributed to recumbent isoclinal folding. The two thin quartzite intervals would represent the limbs of the fold with the nose of that fold occurring for the first 19 m of Rebar DDH 85-8, where the beds are very steeply dipping, while the enclosing units

are gently dipping. This type of F2 isoclinal folding is typical throughout the property.

No sulfide content was seen in any of the quartzites encountered in either Rebar DDH 85-8 or 85-9. The remainder of the rock types in both holes consisted of interbedded calc-silicate-gneiss, calcite marble, and quartz-biotite, quartz-biotite-garnet, quartz-biotite-garnet-sillimanite-gneiss intruded throughout by pegmatite sills and dykes with one monzo-diorite sill or dyke ? encountered in Rebar DDH 85-8. A cross-section of these two holes is appended.

6.0 CONCLUSION

Drilling has failed to reveal the source of the high grade zinc boulders. From experience elsewhere on the property it would not be unrealistic for these boulders to be derived from a narrow linear source controlled by the nose of an F-2 fold. Such a showing occurs on the Sherpa claims to the immediate northeast of the Rebar 2 claim. This type of occurrence is narrow and linear, could easily be concealed by overburden and would be hard to intercept by drilling.

Further, more intense prospecting and trenching may reveal the source of these boulders, however, such a target holds poor tonnage potential and doesn't warrant the expense of conducting such a programme.

APPENDIX 1
STATEMENT OF COSTS

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

PROJECT DATE

TYPE OF REPORT

a) Wages:

No. of Days

Rate per Day \$

Dates From:

Total Wages x \$

b) Food and Accomodation:

No of days

Rate per day \$

Dates From:

Total Cost x \$

c) Transportation:

No of days

Rate per day \$

Dates From:

Total Cost X \$

d) Instrument Rental:

Type of Instrument

No of days

Rate per day \$

Dates From:

Total Cost X \$

Type of Instrument

No of days

Rate per day \$

Dates From:

Total Cost X \$

f) Analysis
(See attached schedule)

g) Cost of preparation of Report
Author
Drafting
Typing

h) Other: Contractor Drilling \$ 42,976.53

Total Cost


e) Unit costs for
No of days
No of units 307 m
Unit costs \$ 139.99 / meter
Total Cost \$ 139.99 × 307 m \$ 42,976.53

APPENDIX II
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, James McDonald of the City of Vancouver, British Columbia, do certify that:

1. I am a graduate of the University of Alberta with a Bachelor of Science in Geology.
2. I have been steadily employed by Noranda Exploration Company, Limited since May, 1983.

A handwritten signature in black ink, appearing to read "James McDonald", written over a horizontal line.

James McDonald
Geologist
Noranda Exploration
Company, Limited
(No Personal Liability)

APPENDIX III

DRILL LOGS

NORANDA EXPLORATION COMPANY LTD.

Date Collared November 25/85		Date Completed December 1/85		Core Size NQ		DIP TESTS				PROPERTY Rebar Mabel Lake		PROJECT No 421		N.T.S. No 82L/10	
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 1 of 7	
Lat. L16400 E		Elev. 1062 m		Dip -70°		RECORDED		CORRECTED		Lot.		Elev.		Dip	
Dep. L 9142 N		Length		Bearing						Dep.		Length		Bearing	
From	To	Recovery	Description			Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
METRES METRES															
0	6.10		CASING												
6.10	19.0	6.10 - 11.28	CALCAREOUS QUARTZITE Medium to coarse grained, banded, medium grey and white, gneissic banding. Varying amounts of quartz 70 - 90%. Diopside 10 - 25%, calcite 1% or less, and graphite 3 - 5% with												
		11.28 - 14.33	SAME AS ABOVE trace po and apatite. At 17.50 m banding in quartzites changes from medium (4 - 8mm) to thinly banded (1 - 2mm). Diopside occurs as very coarse grained blotches of subhedral very												
		14.33 - 17.38	SAME AS ABOVE light green mineral, which occurs throughout. @ 17.50m: Graphite increase to 15 - 20%.												
19.0	20.20	17.38 - 20.43	CALC-SILICATE GNEISS Medium to coarse grained, white with a greenish tinge. Varying amounts of quartz 40 - 10%, calcite 50 - 80%, tremolite 1 - 3% and diopside 1 - 2%.			Blocky									
		20.43 - 23.5	SAME AS ABOVE												
20.20	21.88	23.5 - 26.5	GRAPHITIC BIOTITE GNEISS Thinly banded with white and dark grey-blue bands of quartz 35 - 40%, feldspar 30 - 35%, biotite 5 - 25%, and graphite 10 - 15%			Blocky Bedding to C.A. 81°									
		26.5 - 29.6	SAME 21.53 - 21.59m: One quart vein with disseminate sphalerite and galena along fractures < 1%.			Fractures to C.A. 75°, 80°									
		93%													

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No.		N.T.S. No.			
November 25/85		December 1/85		NQ		DEPTH		BEARING		ANGLE		Rebar Mabel Lake		421		82L/10	
FIELD CO-ORDINATES						DEPTH		RECORDED		CORRECTED		SURVEYED CO-ORDINATES					
Lat.		Elev.		Dip								Lat.		Elev.		Dip	
L 16400 E		1062 m		-70°												HOLE No.	
Dep.		Length		Bearing								Dep.		Length		Bearing	
L 9142 N																Rebar DDH 85-8	
From	To	Recovery	Description			Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS						
METRES	METRES																
21.88	26.50	29.6 32.5 95%	MARBLE Dirty marble with varying amounts of tremolite, biotite, graphite and rare apatite. Calcite is recrystallized and coarse grained and comprises about 80 - 95% of the interval.			Blocky											
		32.5 35.7 88%	SAME														
26.50	31.44	35.7 38.7 89%	QUARTZ-BIOTITE-GARNET-GNEISS Coarse grained thickly to moderately banded, with white and purple black bands. Bands and lesser augens of quartz throughout. Also common medium			Blocky Banding to C.A. 82°											
		38.7 41.8 99%	SAME grained sillimanite crystals along foliation planes. Also have medium to coarse grained light pink garnets throughout. Also have rare thin interbeds of marble which increase towards														
		41.8 44.2 94%	SAME the base of the unit.														
31.44	36.61	44.2 47.2 104%	GRAPHITIC CALC-SILICATE GNEISS Thinly banded, white and green-grey bands consisting primarily of quartz 30 - 50%, calcite 30 - 60%, biotite 5 - 35%, with lesser amounts of tremolite,			Blocky to rubbly											
		47.2 48.8 70%	SAME diopside, and trace apatite. Also have some disseminations of Py, Po < 1%. Uncommon thin interbed of marble.														
		48.8 50.9 97%	SAME At 35.00 - 35.06 Fault Gouge. Fault Gouge 34.78 - 34.88 Slicks indicate normal movement.			Fractures to C.A. 45°											

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Colored November 25/85		Date Completed December 1/85		Core Size NQ		DIP TESTS				PROPERTY Rebar Mabel Lake		PROJECT No. 421		N.T.S. No. 82L/10		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 3 of 7		
Lat. L 16400 E		Elev. 1062 m		Dip -70°		RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.		Elev.		Dip		
Dep. L 9142 N		Length		Bearing						Dep.		Length		Bearing		
From METRES	To METRES	Recovery	Description			Structure	% Sulph.	Est Grade	SAMPLE No.	Width	ASSAYS					
35.61	46.56	50.9	BIOTITE-SILLIMANITE-GARNET-GNEISS			Banding to C.A. 75°										
		53.4	Thin to medium gneissic banding, white and purple-black bands, coarse grained. Recumbant folding. Lenses and augens of quartz throughout.													
		94%														
		53.4	SAME													
		56.4	Also some thin interbeds at calc-silicate gneiss and marble.			Fractures to C.A. 0°, 10°, 40°										
		102%	@ 43.35: Have fault gouge and rubby to blocky ground with minor slicken sides and calcite													
		56.4	SAME													
		59.4	veinlets along fractures. Pegmatite dyke at 40.18 - 40.79m. Also have several other peg. thin dykes or sills.													
		59.4	SAME													
		62.5														
		102%														
		62.5	FAULT ZONE													
46.56	52.44	65.9	Calcareous and graphitic (graphite overall approx. 40 - 50%. Abundant slicken sides, fault gouge and fault breccia. Fragments of quartz and graphitic quartz-feldspar gneiss throughout.													
		90%														
		65.9	SAME													
		68.9	out. Fragments vary from very fine to very coarse grained.													
		102%	46.56 - 46.96: Fault gouge with quartz sub-angular to sub-rounded fragments and about 75% graphite.			Fractures to C.A. 30°, 45°, 65°										
		68.9	SAME													
		70.7	Slicks indicate possibel normal movement? Drag folds indicate thrusting.													
		107%														
52.44	53.46	70.7	GRAPHITIC QUARTZITE			Blocky Bedding to C.A. 70°										
		73.8	Medium grained grey, graphitic (10 - 15%) weakly calcareous and biotitic.													
		95%														

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Collared November 25/85		Date Completed December 1/85		Core Size NQ		DIP TESTS				PROPERTY Rebar Mabel Lake		PROJECT No. 421		N.T.S. No. 82L/10			
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 4 of 7			
Lat L16400 E		Elev 1062 m		Dip -70°		RECORDED		CORRECTED		Lot.		Elev		Dip			
Dep L 9142 N		Length		Bearing		RECORDED		CORRECTED		Dep.		Length		Bearing			
From METRES	To METRES	Recovery	Description				Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
52.44	75.53	73.8- 75.3	QUARTZ-BIOTITE-GARNET-GNEISS White and dark bands. Gneissic banding marked by biotite foliation. Varying amounts of fine to coarse grained pink garnets. Garnets are stretched parallel to foliation. Also have common drag folding indicating a possible antiformal closure up-section. Quartz and feldspar are much more abundant than biotite or garnet by a margin of about 3:1. Quartz is the major constituent and occurs as augens, lenses and in the matrix. Also have minor fine and medium grained sillimanite along foliation planes with biotite.														
		99% 75.3	SAME														
		78.4	91% 78.4														
		81.4	101% 81.4														
		84.5	97% 84.5														
75.53	79.14	84.5- 87.5	AMPHIBOLITE Foliated, dark green medium grained with 55 - 60% hornblende and 40 - 45% plagioclase? feldspar. The hornblende is chloritized and about 95% of it has retrograded to biotite in the bottom 1m. The last 75cm grades into a quartz-feldspar-biotite-garnet-gneiss.														
		90.5	96% 90.5														
		93.60	97% 93.60														
		96.65	96% 96.65														

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Collied November 25/85		Date Completed December 1/85		Core Size NQ		DIP TESTS				PROPERTY Rebar Mable Lake		PROJECT No. 421		N.T.S. No. 821./10		
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 5 of 7			
Lot L16400 E	Elev 1062 m	Dip -70°			RECORDED	CORRECTED	RECORDED	CORRECTED	Lot.	Elev.	Dip	HOLE No. Rebar DDH 85-8				
Dep. L 9142 N	Length	Bearing						Dep.	Length	Bearing						
From METRES	To METRES	Recovery	Description				Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
79.14	101.70	96.65 99.70 106%	PEGMATITE White, primarily with medium and very coarse grained quartz (60 - 90%) with a white potassium? Feldspar and minor amounts of biotite, sericite and garnet. Trace Po. Fractured				Fractures to C.A. 0 - 10°									
		99.70- 102.74	SAME throughout. Also have occasional medium and thin interbands of quartz-feldspar-biotite-garnet-gneiss.													
		98% 102.74- 105.79	81.40 - 88.0m: Foliated pegmatite. Foliation marked by thin bands or stringers of biotite (5-20%). Minor carbonate and clay alteration along fractures.													
		100% 105.79- 108.84	SAME													
		87.5: 90 - 90.50m: 95%	10cm of rubble 90 - 90.50m: Rubbly													
		108.84- 111.89	SAME													
		90% 111.89- 114.94	CALC-SILICATE GNEISS As before with occasional thin interbands of white, coarse grained, recrystallized, calcite marble. Graphitic from 10 - 20% graphite. Overall about 10%. Disseminated Py and				Blocky Banding to C.A. 79°									
101.70	109.40	81% 114.94- 121.04	SAME stringers of Py throughout up to 15 - 25% overall about 5 - 6%.													
		82% 106.22 - 108.21	Mylonitized Calc-silicate Gneiss with very coarse porphyroblasts of garnet with abundant lenses and bands of calcite. Very coarse grained biotite and sericite (with chlorite alteration)				Foliation to C.A. 85°									

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No		N.T.S. No.			
November 25/85		December 1/85		NQ		DEPTH		BEARING		ANGLE		Rebar Mable Lake		421		82L/10	
FIELD CO-ORDINATES				DEPTH		RECORDED		CORRECTED		RECORDED		CORRECTED		SURVEYED CO-ORDINATES			
Lat.		Elev.		Dip										Sheet		6 of 7	
L 16400 E		1062 m		-70°										HOLE No.		Rebar	
Dep.		Length		Bearing						Dep.		Length		Bearing		DDH 85-8	
L 9142 N																	
From	To	Recovery	Description				Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS					
METRES	METRES																
		121.04	- SAME AS ABOVE														
		125.0	mark a well developed														
		105%	foliation. Z and S folds throughout indicate a low														
		125.0	angle thrust movement. Slicks throughout.														
		125.61	109.26 - 109.40: Fault gouge with abundant slicks														
		144%	and graphite				Slicken sides										
		125.61	- SAME				to C.A. 82°										
		127.13															
		97%															
		127.13	- DIORITE TO MONZONITE DYKE?														
109.40	114.60	130.18	Porphyritic, with an aphanitic groundmass. Light														
		90%	green-grey. Very fine to fine grained phenocrysts of														
		130.18	hornblende and plagioclase. Phenocrysts consist of														
		136.28	- SAME														
		88%	about 15% of the rock.														
		97%	Fault bounded. The upper contact has a slickensided														
		136.28	face at 70° to the C.A. Also fractures at 45° and 32°														
		114.60	- CALC-SILICATE GNEISS														
		139.33	This gneiss is of a				Blocky										
		99%	higher metamorphic grade the previses Calc-Silicate														
		139.33	Gneiss. It is well banded and foliated, very coarse														
		142.38	grained and contains numerous coarse porphyroblasts														
		98%	- SAME														
		142.38	of light pink garnet. Also														
		145.43	contains thin interbands of marble and thin to														
		95%	medium interbeds of quartz-feldspar-biotite gneiss ±														
			garnet± sillimanite as well as thin sills and dykes														
			- SAME														
			of pegmatite. These														
			interbeds are of minor occurrence i.e. one every														
			2 - 3m or less. The Calc-silicate consists of talc														
			(40 - 50%), biotite (20 - 25%), sericite (10 - 15%),														

DRILL LOG - B1

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No.		N.T.S. No.			
November 25/85		December 1/85		NQ		DEPTH	BEARING		ANGLE		Rebar Mabel Lake		421		821/10		
FIELD CO-ORDINATES							RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES						
Lot		Elev		Dip						Lot		Elev.		Dip		HOLE No.	
L16400 E		1062 m		-70°						Dep		Length		Bearing		Rebar	
Dep		Length		Bearing						Dep		Length		Bearing		DDH 85-8	
L 9142 N										Dep		Length		Bearing			
From	To	Recovery	Description			Structure	% Sulph	Est. Grade	SAMPLE No.	Width	ASSAYS						
METRES	METRES																
		145.43	SAME	garnet (5-20%) with minor			Foliation to										
		148.48		amounts of calcite, diopside? and tremolite.			C.A. 84° to										
		101%		The gneiss is drag folded throughout and shows			55°. Primarily										
				occasional slicks along foliation planes.			about 75°.										
		148.48	SAME														
		151.52															
		101%															
		151.52	SAME														
		154.57															
		97%															
152.66	163.72	154.57	PEGMATITE	As before with occasional			Blocky										
		157.6		thin and medium interbands of calc-silicite gneiss			Fractures to										
		96%		and lesser quartz-feldspar-biotite-gneiss. The			C.A. 0° - 10°										
				calc-silicate-gneiss is finer grained and contains													
		157.6	SAME	quartz-calcite-tremolite.													
		163.72		Rubbly 161.5 - 162.6m.													
				163.72 m. END OF HOLE													

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Collared December 2/85		Date Completed December 6/85		Core Size NQ	DIP TESTS				PROPERTY Rebar Mabel Lake	PROJECT No. 421	N.T.S. No. 82L/10		
FIELD CO-ORDINATES					DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES			Sheet 1 of 7
Lat. L 16400 E	Elev. 1140 m	Dip -70°				RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.	Elev.	Dip	HOLE No. Rebar DDH 85-9
Dep. L 9295 N	Length	Bearing							Dep.	Length	Bearing		
From METRES	To METRES	Recovery	Description			Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS		
0	6.10	6.10 8.23	CASING										
6.10	22.00	28% 8.23 11.28 71%	CALCITE MARBLE White, coarse grained recrystallized calcite 85 - 95% with lesser amounts of red biotite, sericite graphite and trace, diopside, and apatite? Banding is marked by graphite flakes			Rubby							
		11.28 14.33	SAME and micas. Occasional fine grained white sulfide with a lath shape. Also regular thin to medium interbands of tremolite (15 - 25%) rich marble which approaches calc-silicate-			Blocky							
		99% 14.33 17.38	SAME gneiss. 12.69 - 13.29: Fine grained, white sulfide 2%.			Banding to C.A.							
		100% 17.38 20.43	SAME										
		87% 20.43 23.48	SAME			Rubby							
		98% 23.48 26.52	CALC-SILICATE GNEISS Thinly banded interbands of calcite rich calc-silicate-gneiss and biotite rich calc-silicate gneiss. Consists of medium and fine grained calcite, biotite, tremolite, quartz and talc			Blocky							
22.00	25.32	100% 26.52 29.57	SAME and garnet. 22.52 - 24.98m: Fractured with iron stains along fractures.			Banding to C.A. 86° Fractures to C.A. 0-10°, 25°							
		102%											

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Colored December 2/85		Date Completed December 6/85		Core Size NQ		DIP TESTS				PROPERTY Rebar Mabel Lake		PROJECT No. 421		N.T.S. No. 82L/10	
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 2 of 7	
Lat. L 16400 E		Elev. 1140 m		Dip -70°		RECORDED	CORRECTED	RECORDED	CORRECTED	Lot.		Elev.		Dip	
Dep. L 9295 N		Length		Bearing						Dep.		Length		Bearing	
From METRES	To METRES	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
25.32	26.57	29.57 to 32.62 102%	MARBLE As before but with quartz.			Blocky									
26.57	29.66	32.62 to 35.65 80%	PEGMATITE DYKE Coarse grained quartz and white feldspar with minor biotite and medium grained garnet. One biotite rich interbed with about 30% biotite.			Blocky									
29.66	44.38	35.65 to 38.72 101%	QUARTZ-BIOTITE-GNEISS Medium and coarse grained. Quartz 30 - 45%, feldspar 20 - 30%, biotite 25 - 35% with occasional medium and coarse grained garnet. Also frequent lenses and thin sills or dykes of			Blocky Banding to C.A. 70° - 80°									
		38.72 to 41.76 95%	SAME pegmatite as described above. Minor Cascade folding.												
		41.75 to 44.82 96%													
44.38	45.95	44.82 to 47.87 102%	PEGMATITE Coarse grained, white feldspar (potassium) with Carlsbad twining and quartz with minor biotite rich interbands.												
45.95	94.77	47.87 to 50.91 92%	QUARTZ-FELDSPAR-BIOTITE GARNET-GNEISS As at 29.66m 45.68 - 50.91: Fault zone, Rubbly throughout with slicks along fractures. Slicks along												
		50.91 to 53.81 105%	SAME fractures at 46° and 80°. Cascade folds throughout.			Fractures to C.A. 25°, 46°, 80°									

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Colored December 2/85		Date Completed December 6/85		Core Size NQ		DIP TESTS				PROPERTY Rebar Mabel Lake		PROJECT No. 421		N.T.S. No. 82L/10		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 3 of 7		
Lot L16400 E		Elev 1140 m		Dip -70°		RECORDED		CORRECTED		Lat.		Elev.		Dip		
Dep L 9295 N		Length		Bearing						Dep		Length		Bearing		
From METRES	To METRES	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
		53.81 to 57.01 95%	SAME 62.45 - 62.96: Medium interband of calc-silicate-gneiss.			Blocky Banding to C.A. 80°										
		57.01 to 60.06 93%	SAME Unit consists of inter-banded quartz-feldspar-biotite-garnet gneiss. Some bands are medium (to fine) grained while others are coarse grained. Also occurring are rare thin inter-													
		60.06 to 62.96 109%	SAME bands of calc-silicate-gneiss consisting of coarse grained, calcite, talc, tremolite?, and mica (sericite, biotite). Pegmatite occurs throughout as sills and dykes. Also calc-			Blocky										
		62.96 to 66.0 90%	SAME silicate minerals such as talc and calcite are commonly associated with fracturing in the quartz-feldspar-biotite-garnet gneisses. The unit is quite quartz rich (40 - 60%)			Banding to C.A. 72°										
		66.0 to 69.21 100%	SAME with biotite varying from 20 - 35% and feldspar from 25 - 35%. The unit appears to have been pervaded by quartz and feldspar and may originally have been a more limy unit than it			Banding to C.A. 61°										
		69.21 to 72.26 83%	SAME now appears. Also some drag folding with an apparent antiformal closure up-section.			Fractures to C.A. 0°-10°, 52°. Py-clay along fractures-										
		72.26 to 75.30 93%	SAME			Rubbly Banding to C.A. 87°										
94.77	99.17	75.30 to 81.4 94%	CALCITE MARBLE 80 - 95% recrystallized coarse grained calcite with lesser amounts of light red-brown mica, with minor tremolite and apatite.			Blocky Banding to C.A. 80°										

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Colored December 2/85		Date Completed December 6/85		Core Size NQ		DIP TESTS				PROPERTY Rebar Mabel Lake		PROJECT No. 421		N.T.S. No. 821/10	
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 4 of 7		
Lat L 16400 E		Elev 1140 m			Dip -70°		RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.		Elev.		Dip
Dep L 9295 N		Length		Bearing						Dep.		Length		Bearing	
From METRES	To METRES	Recovery	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS						
		81.4 to 84.45 92%	SAME												
		84.45 to 87.5 102%	SAME												
		87.5 to 90.55 103%	SAME												
		90.55 to 93.6 100%	SAME												
		93.6 to 96.65 100%	SAME												
99.17	101.01	96.65 to 99.7 101%	BANDED CALC-SILICATE GNEISS Interbands of medium and coarse grained calc-silicate-gneiss (calcite, tremolite, ± Po) and quartz-feldspar -biotite-garnet-gneiss. Po occurs as minor	Blocky Banding to C.A. 78°											
		99.7 to 102.74 99%	SAME disseminations throughout approx. 1%. Po also occurs as rare thin (1mm) laminations < 1%.												
101.01	102.94	102.74 to 105.79 99%	CALCITE MARBLE Same as at 94.77												

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Colored December 2/85		Date Completed December 6/85		Core Size NQ		DIP TESTS				PROPERTY Rebar Mabel Lake		PROJECT No. 421		N.T.S No. 82L/10		
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 5 of 7			
Lot. L16400 F		Elev.			Dip -70°		RECORDED	CORRECTED	RECORDED	CORRECTED	Lot		Elev		Dip	
Dep. L 9295 N		Length		Bearing						Dep.		Length		Bearing		
From METRES	To METRES	Recovery	Description			Structure	% Sulph.	Est. Grade	SAMPLE No	Width	ASSAYS					
102.94	111.50	105.79 to 107.72 57%	QUARTZ-FELDSPAR-BIOTITE-GNEISS Contains numerous sills and dykes throughout. The unit is the same as at 45.95 - 94.77 m.													
		107.72 to 108.84 120%														
111.50	117.49	108.84 to 111.89 94%	QUARTZ-FELDSPAR-BIOTITE-GNEISS Interval contains from 10 - 35% red biotite and is primarily medium grained. It is distinguished from the overlying unit because it is pervaded by			Blocky										
		111.89 to 114.94 104%	SAME quartz and feldspar and in places looks like a biotitic quartzite. It also contains two calcareous intervals intruded by pegma- tite dykes. These intervals contain calcite, tremolite,													
		114.94 to 117.07 87%	SAME ± apatite and an unidenti- fied anhedral peacock blue mineral (hardness 1-2) and talc. These intervals were located at 114.39 - 114.75 adn 114.99 - 115.37.													
117.49	118.89	117.07 to 120.12 101%	CALCITE MARBLE 117.79 - 117.89 and 118.07 - 118.17m: Fault gouge chloritic, minor hematite stains. Very minor blebs of Po << 1%.			Fractures to C.A. 0° - 20° Blocky to Rubbly										
118.89	120.38	120.12 to 123.17 98%	CALCAREOUS QUARTZITE Coarse grained, tiger stripe texture. Contains about 10-15% calcite with lesser diopside and sericite. The upper and lower contact are marked by medium (20-50cm) pegmatite			Blocky Banding to C.A. 65°										
			SAME sills. Gp 1 - 2 %.													

DRILL LOG - 81

Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Colored December 2/85		Date Completed December 6/85		Core Size NQ		DIP TESTS				PROPERTY Rebar Mabel Lake		PROJECT No 421		N.T.S. No 82L/10		
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 6 of 7			
Lot L16400 E		Elev			Dip -70°		RECORDED	CORRECTED	RECORDED	CORRECTED	Lot		Elev		Dip	
Dep L 9295 N		Length		Bearing						Dep		Length		Bearing		
From METRES	To METRES	Recovery	Description			Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS					
120.38	122.14	123.17 to 126.22 97%	GRAPHITIC QUARTZITE Medium grained, weakly calcareous with 10 - 20% graphite flake throughout.													
122.14	123.14		CALCITE MARBLE Coarse grained with 2 - 3% tremolite, 1% apatite and trace talc related to fracturing.			Blocky										
123.14	124.30		GRAPHITIC QUARTZ-FELDSPAR-BIOTITE-GARNET GNEISS Medium grained with 15 - 20% graphite and 10 - 15% red biotite and 40 - 60% quartz and feldspar. Bottom contact is marked by a thin pegmatite dyke.			Blocky Banding to C.A. 74°										
124.30	135.25	126.82 to 129.27 100%	CALCITE MARBLE Occasional thin interbands with 15 - 20% coarse grained tremolite and minor apatite. Also minor pyroxene (diopside?) and trace talc (associated with fractures). Thin white			Blocky Banding to C.A. 82°										
		129.27 to 132.32 100%	SAME and medium blue-grey interbands throughout, the blue colouration is due to 2 - 3% graphite flakes.													
135.25	140.24	132.32 to 135.37 73%	QUARTZ-FELDSPAR-BIOTITE-GARNET-GNEISS Same as at 45.95, but with lesser pegmatite and generally lesser biotite. Minor cascade folds.			Blocky Banding to C.A. 75°										
		135.37 to 138.41 93%	SAME													
140.24	141.68	138.41 to 140.24 93%	CALCAREOUS QUARTZITE Thinly banded and graphitic. Graphite varies from 5 - 35%, but is generally about 5%. Calcite is generally around 5 - 10%, but in some thin interbands it is up to 40 - 50%. Also some thin			Blocky Banding to C.A.										

DRILL LOG - 81

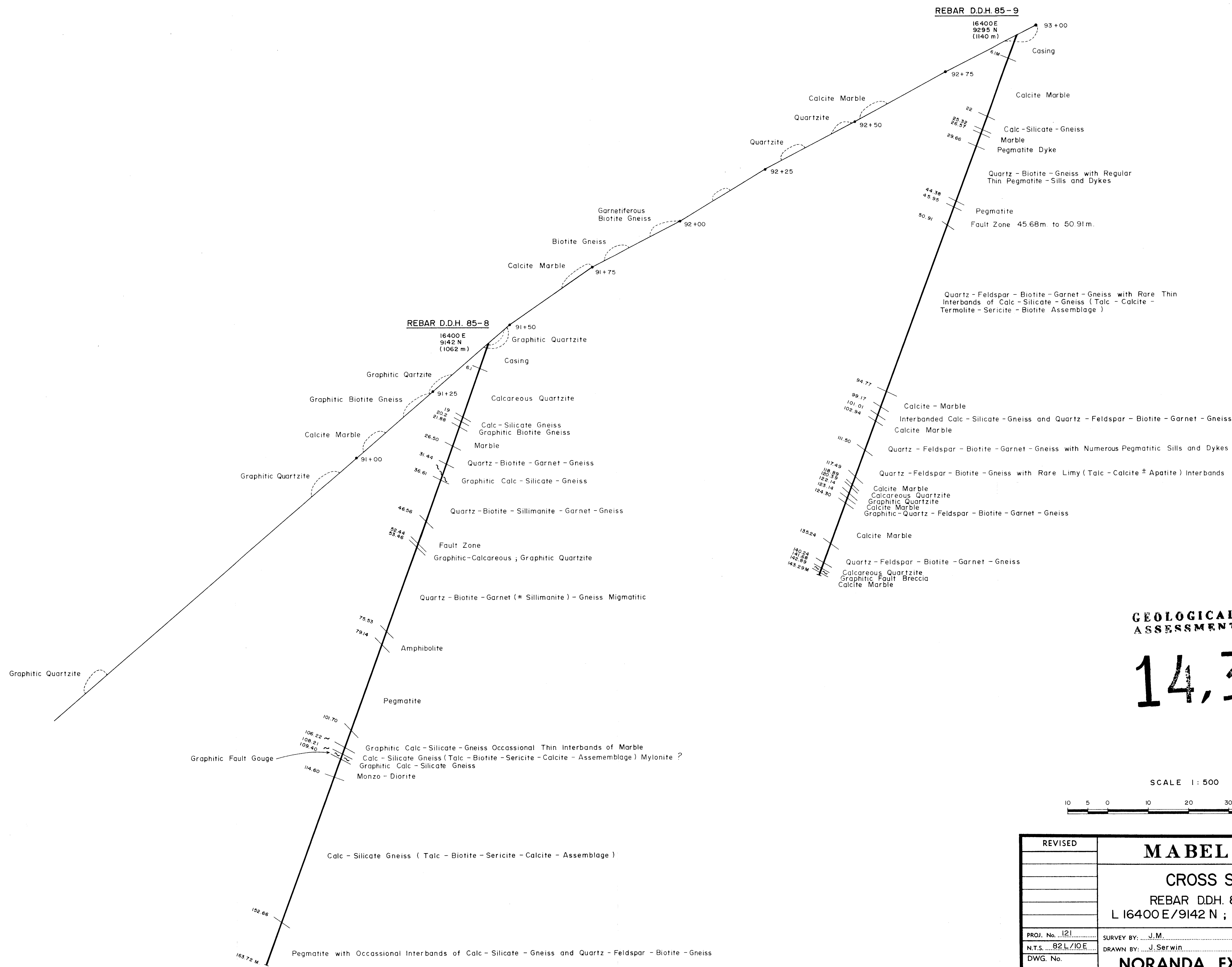
Date _____ Logged By _____

NORANDA EXPLORATION COMPANY LTD.

Date Colored December 2/85		Date Completed December 6/85		Core Size NQ		DIP TESTS				PROPERTY Rebar Mabel Lake		PROJECT No. 421		N.T.S. No. 82L/10		
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 7 of 7			
Lat. L16400 E		Elev			Dip -70°		RECORDED	CORRECTED	RECORDED	CORRECTED	Lot.		Elev.		Dip	
Dep L 9295 N		Length		Bearing						Dep.		Length		Bearing		
From METRES	To METRES	Recovery	Description			Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS					
			SAME reddish interbands containing 10 - 15% red biotite. Minor garnet. Py along fracutres.													
141.68	142.89		GRAPHITIC FAULT BRECCIA Pebble and sand sized fragments of sub-angular quartz throughout. Matrix is approximately 80 - 85% of breccia (Fault Gouge) slicks throughout.			Fault Gouge										
			SAME Upper contact to C.A. 78° Lower " " " 35°													
142.89	143.29	140.24 to 143.29 87%	CALCITE MARBLE Minor talc and apatite.													
			143.29 END OF HOLE													

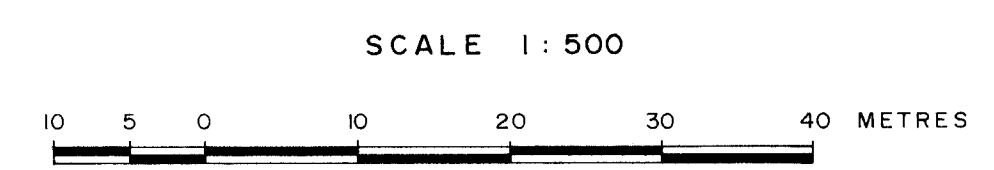
DRILL LOG - 01

Date _____ Logged By _____

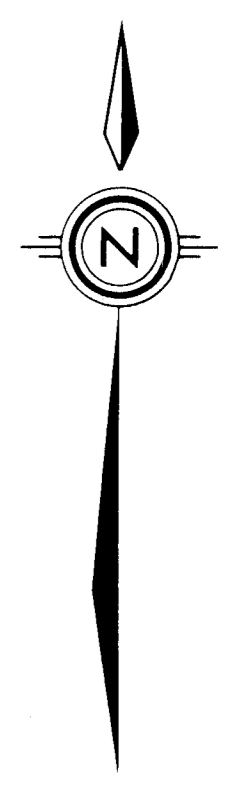


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,347



REVISED	MABEL LAKE	
	CROSS SECTION	
	REBAR DDH. 85-8 ; 85-9	
	L 16400 E/9142 N ; L 16400 E/9295 N	
PROJ. No. 121	SURVEY BY: J.M.	DATE:
N.T.S. 82 L/10 E	DRAWN BY: J. Serwin	SCALE: 1:500
DWG. No. 1	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	



GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,347

REVISED	MABEL LAKE	
	D.D.H. LOCATIONS	
	REBAR 85-8 & 9	
PROJ. No. 1070	SURVEY BY: J. McDonald	DATE: Nov/85
N.T.S. 82 L10	DRAWN BY: sks Lillie & PJA	SCALE: 1:10,000 (approximate)
DWG. No.	NORANDA EXPLORATION	
	OFFICE: Vancouver	