85-1130-14397

MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES
Rec'd FEB 14 1986
SUBJECT
FILE
VANCOUVER, B.C.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,397

11/86

ASSESSMENT REPORT

DIAMOND DRILLING

ON THE

FILMED

CAD CLAIM GROUP

CAD	4937 (11)	DIAL	5030 (11)
CAD 1	4938 (11)	CAD 2	4950 (11)
CAD 3	4951 (11)	CAD 4	4952 (11)
CAD 5	4953 (11)	CAD 6	4954 (11)
		BRI	6344 (8)
		NBR 8	5944 (11)

KAMLOOPS MINING DIVISION

N.T.S. 82M/5W

51°18'N 119°52'W

Owner: J.D. Graham and Noranda Exploration Company, Limited

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

Author: G. Shevchenko
Project Geologist

Date: February, 1986

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LIST OF DRAWINGS

APPENDICES

1.0 INTRODUCTION

This report encompasses the diamond drilling which was conducted on the CAD Claim Group during the 1985 field season. The two holes, Russ-85-1 and Russ-85-2, which were collared on August 20, 1985 and October 12, 1985 respectively, tested a silver-lead-zinc soil anomaly coincident with an underlying weak I.P. zone.

1.1 Location and Access (Drawing #1)

The property, centered at 51°18'N latitude by 119°52'W longitude, is located 22 kilometers northeast of Barriere, British Columbia, between the North and East Barriere Lakes.

The Cad Group is road accessible from Barriere by the East Barriere Lake and East Barriere Ridge Roads. One way driving time from Barriere is 30-45 minutes along both paved and good condition gravel roads.

1.2 Topography and Physiography

The Cad claim group is situated within the Shuswap Highland subdivision of the Interior Plateau section of the Southern Plateau and Mountain physiographic region.

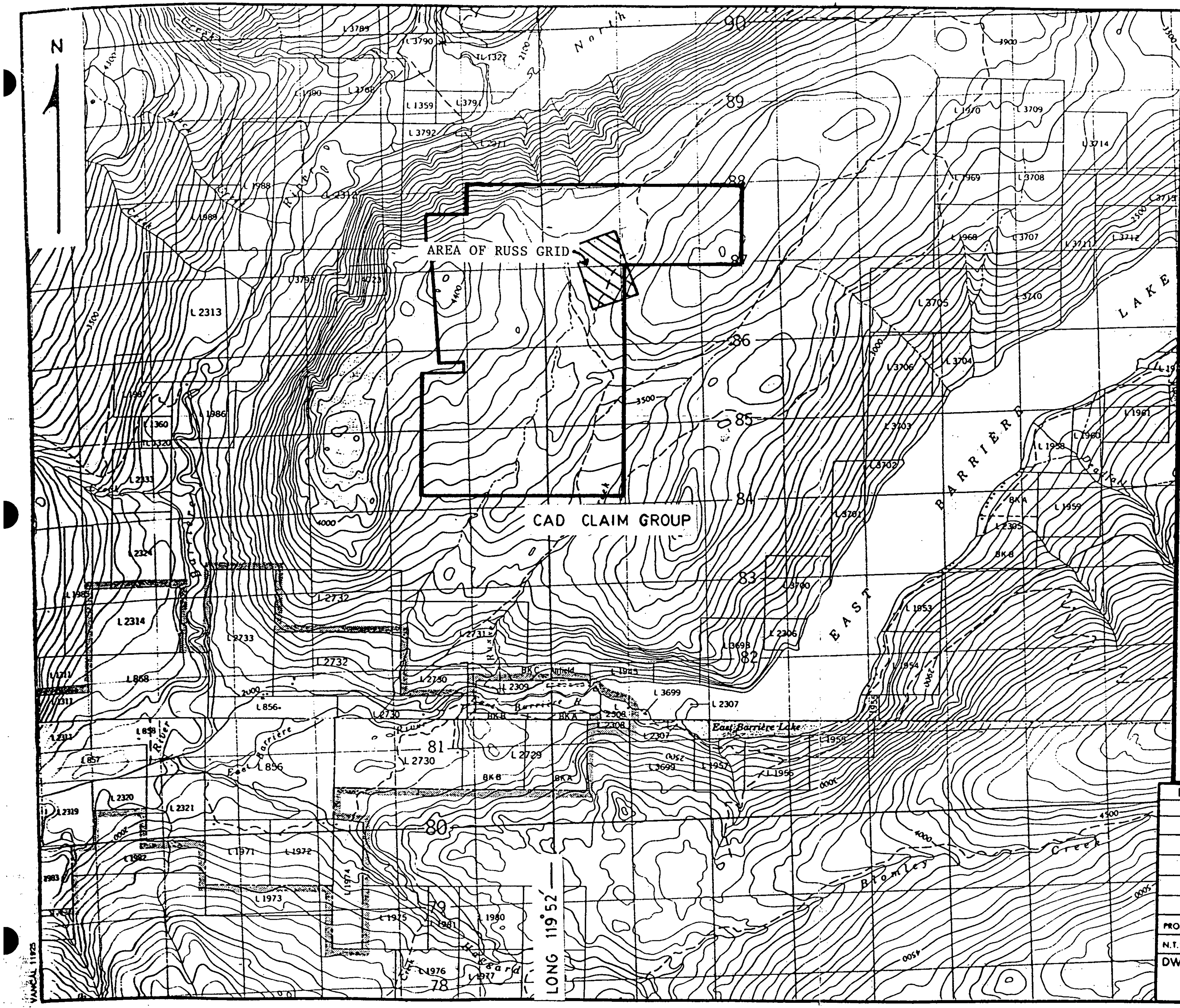
The claims straddle a 2,500' high NE-SW trending ridge between North and East Barriere Lakes. The ridge, which reaches a maximum elevation of 4,500' ASL in the vicinity of the claims, is characterized by 1,500' high cliffs on the NW, SW and SE flanks and a rolling 1,000' high plateau-like ridge top.

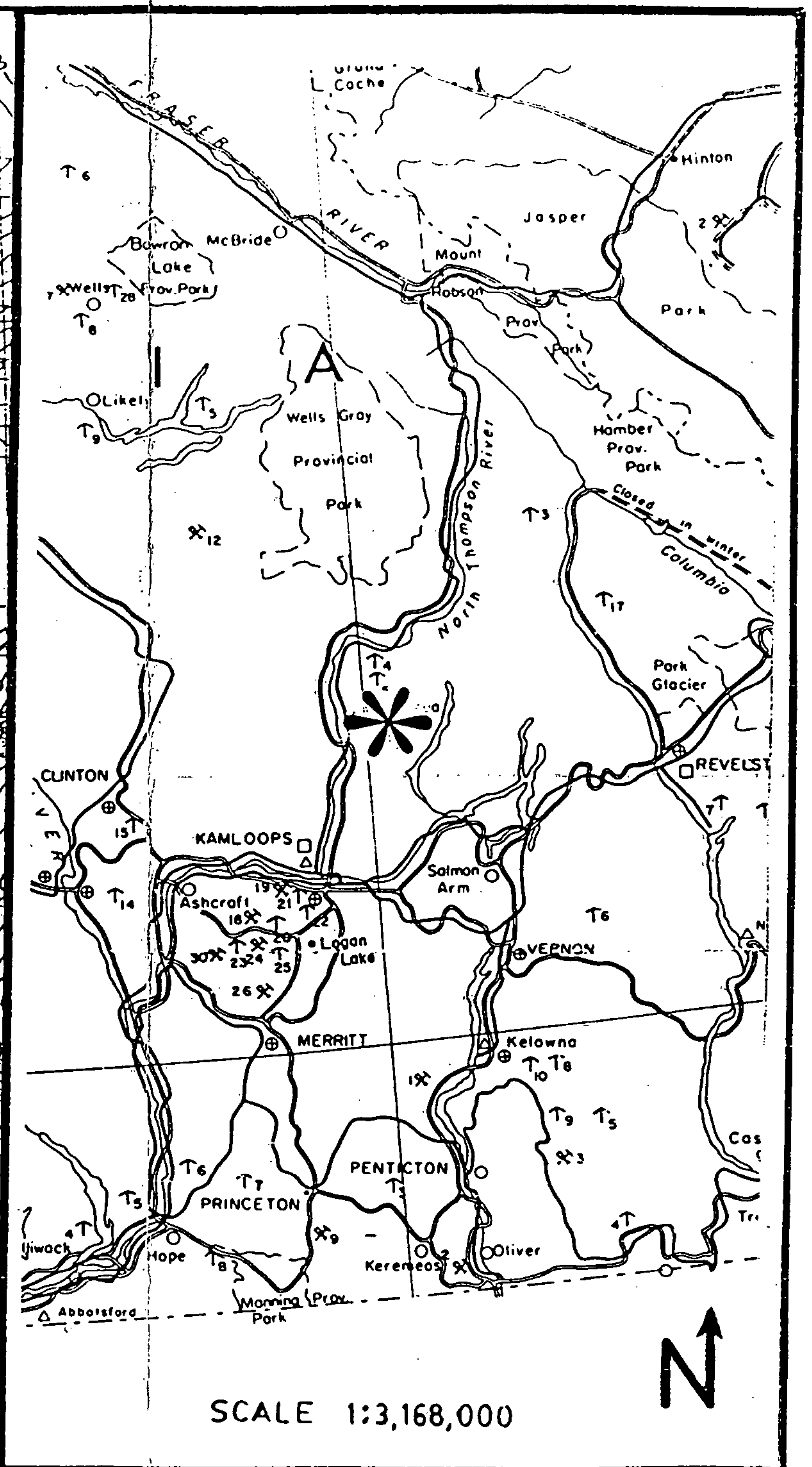
The plateau is partly logged and consists of replanted second growth, and mature stands of spruce, balsam and pine. The forest underbrush is moderately open to thick and the clearcuts are moderately open.

1.3 Previous Work

Soil and silt sampling was completed in 1971 by Ducanex Resources within the present claim boundary on claims called C & G and Den. Extensive work along the ridge to the north was completed by K.E. Northcotte and Assoc., Westmin Resources, Craigmont Mines, Noranda Exploration, Rayrock Mines and Royal Canadian on claims called EBL and REM. This work was conducted from 1969 to the present and has consisted of geology, geochemistry, geophysics and trenching.

Two known showings to the west of the claims are called White Rock (MINFIL #082M 066) and Silver Mineral, (Silver Minnow) (MINFIL #082M 069). These two properties have been known and worked sporadically since the early 1920's.





REVISED	OBRIEN (J.V.)
	CAD CLAIM GROUP
	PROPERTY LOCATION
PROJ.No. 10	SURVEY BY: DATE:
N.T.S. 82M/3,4	DRAWN BY: G.S. SCALE: 1:50,000
DWG.No.	**NORANDA EXPLORATION** OFFICE: VANCOUVER

1.4 Claim Status

The following is a complete list of claims which constitute the Cad Claim Group.

Claim Name	Record No.	Units	Expiry Date	N.T.S.
Cad	4937	12	Nov. 16, 1987	82M/05W
Cad 1	4938	1	Nov. 16, 1987	82M/05W
Cad 2	4950	1	Nov. 16, 1987	82M/05W
Cad 3	4951	1	Nov. 16, 1987	82M/05W
Cad 4	4952	1	Nov. 16, 1987	82M/05W
Cad 5	4953	1	Nov. 16, 1987	82M/05W
Cad 6	4954	1	Nov. 16, 1987	82M/05W
Dial	5030	15	Nov. 22, 1987	82M/05W
NBR 8	5944	8	Nov. 7, 1987	82M/05W
Bri	6344	6	Aug. 21, 1987	82M/05W
		47		

The CAD, DIAL and CAD 1-6 claims are on option from:

J.D. Graham,
9411 Ferndale Road,
Richmond, B.C.
V6Y 1X4

to: Noranda Exploration Company, Limited
(No Personal Liability)
P.O. Box 2380,
Vancouver, B.C.
V6B 3T5

The NBR 8 and BRI claims are 100% owned by Noranda Exploration Company, Limited.

The CAD Claim Group is solely operated by Noranda Exploration Company, Limited.

1.5 Economic Potential

The economic potential of the group has not been assessed due to the limited extent of the drilling. The exploration potential of this ground is considered moderate due to the presence of limited quantities of sphalerite and galena in the drill core.

1.6 Summary of Work Done

Two NQ sized diamond drill holes were drilled for a total length of 184.7 meters.

The actual work was conducted on the Russ Grid which is located on the CAD mineral claim.

2.0 DISCUSSION OF RESULTS

The two diamond drill holes, Russ-85-1 and Russ-85-2, are located in the eastern portion of the Russ Grid close to the eastern boundary of the Cad mineral claim. The holes tested a lead-silver-zinc soil anomaly coincident with an underlying weak I.P. zone.

The following table outlines the specifications for each of the diamond drill holes.

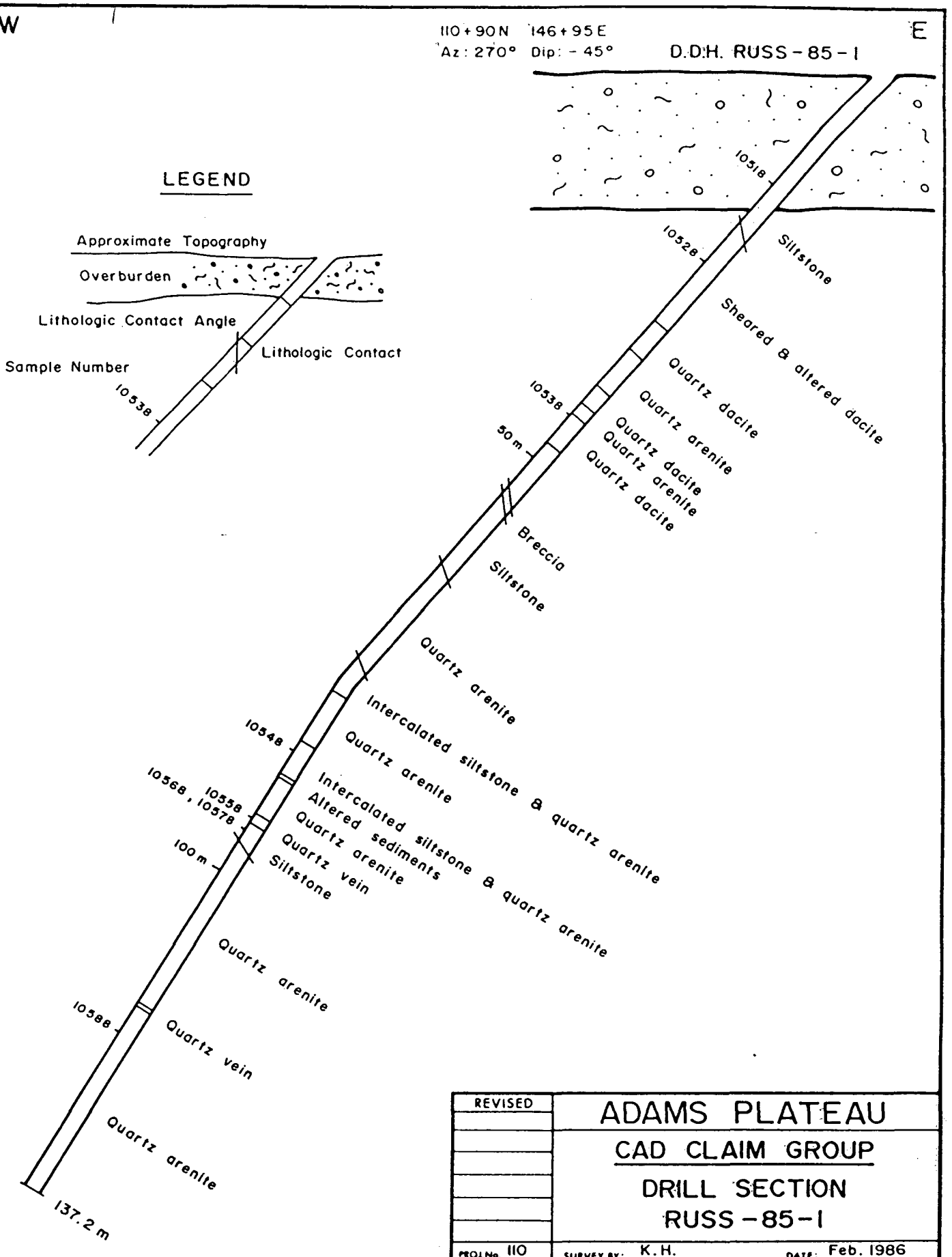
Hole No.	Co-Ordinates North	Co-Ordinates East	Bearing	Dip	Length
Russ 85-1	110+90	146+95	270°	-45°	137.2 m
Russ-85-2	110+95	146+47	270°	-65°	47.5 m

DDH Russ-85-1

This diamond drill hole encountered 17.08 meters of overburden prior to hitting bedrock. It cored into a package of quartz dacite volcanics with minor intercalations of quartz arenite and siltstone. At 42.7 meters depth the rocks graded into a sedimentary sequence comprising of intercalated quartz, arenite and siltstone.

Sphalerite and galena mineralization occurs in quartz veinlets hosted by quartz dacite and quartz arenite. The veinlets, which are locally occurring, range up to 1 centimeter in width and contain from trace to 70% sphalerite and trace galena. The assay results indicate that there is minor silver associated with these veinlets. Minor fuchsite occurs sporadically within the quartz dacites.

The mineralization that was encountered does not fully explain the soil anomaly or the I.P. zone. However, the I.P. anomaly may be reflecting the change from volcanic to sedimentary rocks.

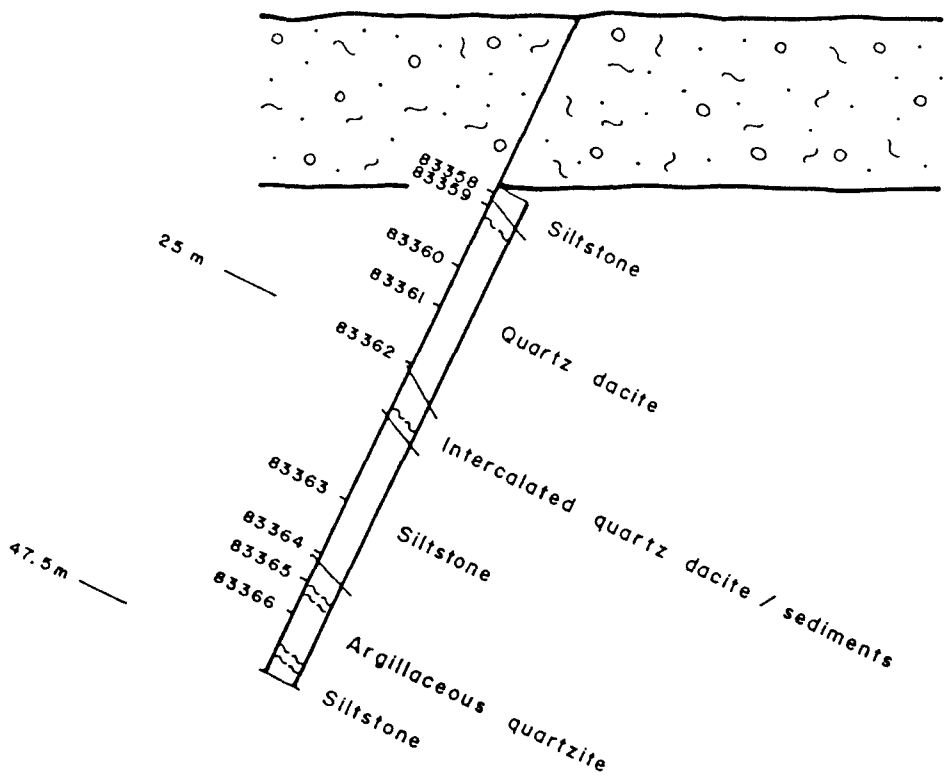


REVISED	ADAMS PLATEAU
	CAD CLAIM GROUP
	DRILL SECTION
	RUSS-85-1
PROJ. No. 110	SURVEY BY: K.H. DATE: Feb. 1986
N.T.S. 82M/5W	DRAWN BY: J.Serwin SCALE: 1:500
DWG. No. 3	NORANDA EXPLORATION
	OFFICE: VANCOUVER

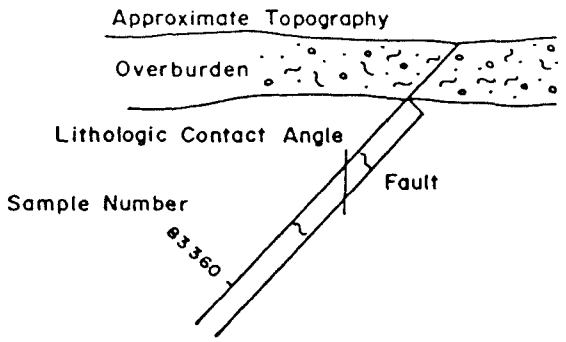
MQ-774

W E

110+95N 146+47 E
Az: 270° Dip: -65° D.D.H. RUSS-85-2



LEGEND



REVISED	ADAMS PLATEAU
	CAD CLAIM GROUP
	DRILL SECTION
	RUSS-85-2
PROJ. No. 110	SURVEY BY: G.S. DATE: Feb. 1986
N.T.S. 82M/05	DRAWN BY: J. Serwin SCALE: 1:500
DWG. No. 4	NORANDA EXPLORATION
	OFFICE: VANCOUVER

NCI-774

DDH Russ-85-2

Since the soil anomaly was not fully explained by the first drill hole, this second hole was collared much closer to the intense soil zone with the intention of testing the bedrock directly beneath it.

The drill encountered 12.5 meters of overburden followed by 13.1 meters of dominantly quartz dacite volcanics. Trace amounts of pyrite and up to 15% fuchsite occurs within this volcanic package. From 25.6 to 28.6 meters depth a transitional zone of intercalated quartz dacite and sedimentary rocks was intersected. The remainder of the hole is a sedimentary package of intercalated siltstone and argillaceous quartzites (arenite).

No economic sulphide mineralization was encountered in the drill hole.

3.0 CONCLUSIONS

The two diamond drill holes intersected volcanoclastic rocks belonging to the Devono-Mississippian Eagle Bay Formation. From previous mapping the rock units appear to dip to the east, however, from the drill core data, the lithologies may just as easily be steeply dipping to the east as flat lying.

The volcanic rocks are comprised of quartz dacite while the sedimentary package is made up of siltstones and quartz arenites.

Minor sphalerite and galena mineralization is found along locally occurring quartz veinlets hosted by the quartz dacite and quartz arenite.

Up to 15% fuchsite occurs in the volcanics and may represent a hydrothermal alteration mineral facies.

The diamond drill holes failed to intersect mineralization that would explain the soil geochem/I.P. anomaly. It is possible, however, that the I.P. anomaly may be reflecting the change from volcanic to sedimentary rocks.

4.0 RECOMMENDATIONS

A pionjar survey is recommended in order to locate the source of the geochemical soil anomaly.

APPENDIX I

DIAMOND DRILL LOGS

DDH RUSS-85-1

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Aug. 20, 1985	Aug. 23, 1985	NQ		BEARING		ANGLE		CAD CLAIM GROUP	110	82M/5
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES		Sheet 1 of 5
Lat. 110 + 90N	Elev.	Dip -45°	45.7			-56°	-50°	Lat.	Elev.	Dip	HOLE No.
Dep. 146 + 95E	Length 137.2m	Bearing 270	137.2			-65°	-59°	Dep.	Length	Bearing	RUSS-85-1

From METRES	To METRES	Recovery %	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width METRES	% Cu / Mo	% Pb / Zn	% Cr	OZ/TON Ag / Au
0	17.08		OVERBURDEN Lower parts dark clay with boulders. A portion of the clay sampled for assay.				1051B	.10	0.01 / <.01	0.01 / 0.01	<0.01	0.09 / 0.001
17.08	18.60	85%	SILTSTONE Grey, aphanitic mildly foliated soft siltstone with minor layers of grey medium grained massive quartz arenite (first layer at 18.0m) Arenite gets more abundant down hole small cross cutting quartz veins, 2-3mm, some with small amounts of pyrite and pyrrhotite. Gradual change at top to a very fine grained siliceous rock with quartz. Veins and blebs up to 1.5 cm, core very broken with no clear contacts.	17.30 m foliation 53° to C.A.								
18.60	19.40	85%										
19.40	24.33	95%	SHEARED/ALTERED DACITE? Grey, light green, white and lavender, aphanitic to medium grained. Foliated to massive calcareous and dolomitic possibly mylonite in fault zone.	22 m foliation 54° to C.A.								
24.33	24.86	95%	AS ABOVE		1%		1052B	.50	0.01 / 0.01	0.01 / 0.02	<0.01	0.10 / 0.001
24.86	32.0	95%	AS ABOVE									
32.0	35.7	65%	QUARTZ DACITE Light green, grey; fine to medium grained, massive, altered, small amounts of emerald green mica possibly fuchsite. 1 cm quartz vein at 32.4 m has approx. 10% sphalerite.									

DRILL LOG - 81

Date AUGUST 24, 1985 Logged By K. HADEN

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Aug. 20, 1985	Aug. 23, 1985	NQ		BEARING		ANGLE		CAD CLAIM GROUP	110	82M/5
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES		Sheet 2 of 5
Lat. 110 + 90N	Elev.	Dip -45°	45.7			-56°	-50°	Lat.	Elev.	Dip	HOLE No.
Dep. 146 + 95E	Length 137.2 m	Bearing 270	137.2			-65°	-59°	Dep.	Length	Bearing	RUSS-85-1

From METRES	To METRES	Recovery %	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width METRES	% Cu / Mo	% Pb / Zn	% Cr	OZ/TON Ag / Au
35.7	40.4	90	QUARTZ ARENITE Now quartzite due to metamorphism - Grey to dark grey, fine to medium grained, massive sediment. Some minor quartz veins and rare black layers. Small amounts of euhedral pyrite scattered throughout this unit. Near the base of this is minor fuchsite? with a small shear and quartz vein with traces of galena.									
40.4	42.7	80	QUARTZ DACITE As seen at 32.0 to 35.7 m									
42.7	44.1	70	QUARTZ ARENITE This is as seen above (35.7 - 40.4). The lowest 10 cm is brecciated with 50% Qtz. Veining near lower contact small quartz. Vein 2 - 10mm (that is approx. 70% sphalerite.									
44.1	44.6	60	QUARTZ DACITE Up to 5% fuchsite in places.		0.5		1053B	.50	<0.01 / 0.01	0.01 / 0.01	<0.01	0.10 / 0.001
44.6	47.8	60	AS ABOVE									
47.8	53.5	70	SILTSTONE Dark and light grey with a few black graphitic layers. Very fine grained mildly foliated to massive cut with Qtz/carb. veins 1 mm to 1 cm. Beds are very contorted with slump features and folding, also, small shears. Small quartz vein at 48.5 m with minor chalcopyrite. Galena and sphalerite knots of euhedral pyrite up to 2 cm scattered throughout this unit but <1% by volume. Minor arenite.									

DRILL LOG - 81

Date AUGUST 24, 1985 Logged By K. HADEN

NORANDA EXPLORATION COMPANY LTD.

Date Collored	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
Aug. 20, 1985.	Aug. 23, 1985.	NQ		BEARING		ANGLE		CAD CLAIM GROUP		110	82M/5
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES			Sheet 3 of 5
Lat. 110 + 90N	Elev.	Dip -45°	45.7			-56°	-50°	Lat.	Elev.	Dip	HOLE No.
Dep. 146 + 95E	Length 137.2m	Bearing 270	137.2			-65°	-59°	Dep.	Length	Bearing	RUSS-85-1

From METRES	To METRES	Recovery %	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width METRES	% Cu / Mo	% Pb / Zn	% Cr	OZ/TON Ag / Au
53.5	54.2	90	BRECCIA Dolomite, quartz and fuchsite added here.	55 m Qtz. vein & Bedding 47° to C.A.								
54.2	63.3	90	SILTSTONE As above with some increase in silica content. Lighter coloured for top 30 cm, cut by quartz vein up to 2cm some with vugs and crystals rarely with traces of sphalerite, particularily folded (Fold hinge?) at 60 m.	62.3 m Bedding/ Foliation 59° to C.A.								
63.3	75.6	90	QUARTZ ARENITE As seen before, minor beds of siltstone where a foliation develops. Upper contact crumbly and broken, still many small quartz veins at all angles.	67 m Foliation/ bedding 62° to C.A.								
75.6	76.2	70	SILTSTONE Dark beds as seen above.									
76.2	78.5	60	QUARTZ ARENITE As seen above									
78.5	79.6	95	SILTSTONE As seen above.									
79.6	85.3	95	QUARTZ ARENITE As seen above, lighter coloured.									

DRILL LOG - 81

Date AUGUST 24, 1985 Logged By K. HADEN

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
Aug. 20, 1985	Aug. 23, 1985	NQ		BEARING		ANGLE		CAD CLAIM GROUP		110	82M/5
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES			Sheet 4 of 5
Lat. 110 + 90N	Elev.	Dip -45°	45.7			-56°	-50°	Lat.	Elev.	Dip	HOLE No.
Dep. 146 + 95E	Length 137.2 m	Bearing 270	137.2			-65°	-59°	Dep.	Length	Bearing	RUSS-85-1

From METRES	To METRES	Recovery %	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width METRES	% Cu / Mo	% Pb / Zn	% Cr	OZ/TON Ag / Au
85.3	85.45	85	SILTSTONE — As seen above									
85.45	85.95	85	SILTSTONE — Several quartz veins have minor sphalerite.		1 sph		1054B	0.5	0.01 / 0.01	0.01 / 0.08	< 0.01	0.22 / 0.002
85.95	89.2	80	SILTSTONE/ARENITE — Mixed in small beds.									
89.2	89.6	80	ALTERED SEDIMENTS — Area of strong fuchsite - dolomite enrichment.									
89.6	93.6	85	QUARTZ ARENITE — As seen above, fine grained, grey-buff.									
93.6	93.75	75	QUARTZ VEIN — Greyish micas sparsely throughout.									
93.75	94.25	75	QUARTZ VEIN AS ABOVE				1055B	0.5	<0.01 / 0.01	<0.01 / 0.01	< 0.01	0.10 / 0.002
94.25	94.75	75	QUARTZ VEIN AS ABOVE									

DRILL LOG - 81

Date AUGUST 24, 1985 Logged By K. HADEN

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
Aug. 20, 1985	Aug. 23, 1985	NQ		BEARING		ANGLE		CAD CLAIM GROUP		110	82M/5
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES			Sheet 5 of 5
Lat. 110 + 90N	Elev.	Dip -45°	45.7			-56°	-50°	Lat.	Elev.	Dip	HOLE No.
Dep. 146 + 95E	Length 137.2m	Bearing 270	137.2			-65°	-59°	Dep.	Length	Bearing	RUSS-85-1

From METRES	To METRES	Recovery %	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width METRES	% Cu / Mo	% Pb / Zn	% Cr	OZ/TON Ag / Au
94.75	95.25	95	SILTSTONE — Very contorted in gradational contact with unit below at 96.7 m.				1056B	0.5	0.01 / 0.01	<0.01 / 0.01	< 0.01	0.10 / 0.002
95.25	96.7	95	SILTSTONE — As above				1057B	1.4	<0.01 / 0.01	0.01 / 0.01	< 0.01	0.10 / 0.002
96.7	113.8	95	QUARTZ ARENITE — Grey, greenish minor mineralogical changes with approx. 20% overall siltstone (finely bedded).	107 m bedding/foliation 58° C.A. 98 m - 64° C.A								
113.8	115.2	100	QUARTZ ARENITE — More fuchsite alteration in layers and fractures.									
115.2	115.5	100	QUARTZ VEIN									
115.5	118.25	100	QUARTZ ARENITE — Minor siltstone and some discontinuous pyritic layers associated with silty material, a few layers 1-8 mm across.									
118.25	118.75	100	QUARTZ ARENITE — As above				1058B	0.5	<0.01 / 0.01	0.01 / < 0.01	< 0.01	0.12 / 0.003
118.75	137.2	95	QUARTZ ARENITE — As above	127.5 m bedding/foliation 65° to C.A.								

DRILL LOG - 81

END OF HOLE

Date AUGUST 24, 1985 Logged By K. HADEN

DDH RUSS-85-2

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
Oct. 12, 1986	Oct. 12, 1986	NQ		BEARING		ANGLE		CAD CLAIM GROUP		110	82M/5W
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES			Sheet 1 of 5
Lat. 110 + 95N	Elev.	Dip -65	47.5 m			-69°	-64°	Lat.	Elev.	Dip	HOLE No.
Dep. 146 + 47E	Length 47.5m	Bearing 270°						Dep.	Length	Bearing	RUSS-85-2

From METRES	To METRES	Recovery %	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width METRES	ASSAYS Cu / Mo	Pb / Zn	Ag	Au (ppb)
0	12.5		CASING									
12.5	13.1	88	SILTSTONE Brecciated grey phylite infilled with barren quartz.	Highly deformed S_1 66° to C.A.			83358	0.9	7 ppm / 2 ppm	11 ppm / 31 ppm	0.2 ppm	< 5 ppb
13.1	14.1	90	QUARTZ DACITE Pale greenish grey, aphanitic with a phyllitic foliation and chlorite/talc alteration. Quartz occurs in recrystallized lenses and pods.	S_1 parallel to C.A.			83359	1.0	14 ppm / 1 ppm	5 ppm / 58 ppm	< 0.2 ppm	< 5 ppb
14.1	15.1	90	QUARTZ DACITE As above	S_1 parallel to C.A.								
15.1	15.2	90	FAULT GOUGE									
15.2	15.6	89	QUARTZ DACITE As above	S_1 40° to C.A.								
15.6	17.3	88	QUARTZ DACITE As above with trace amounts of pyrite.	S_1 56° to C.A.								
17.3	18.1	88	QUARTZ DACITE As above with up to 1% disseminated pyrite.		1% Py		83360	0.8	14 ppm / 2 ppm	9 ppm / 78 ppm	0.2 ppm	< 5 ppb

DRILL LOG - 81

Date OCTOBER 15, 1986 Logged By G. Shevchenko

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Oct. 12, 1986	Oct. 12, 1986	NQ		BEARING		ANGLE		CAD CLAIM GROUP	110	82M/5W
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES		Sheet 2 of 5
Lat. 110 + 95N	Elev.	Dip -65	47.5 m			-69°	-64°	Lat.	Elev.	Dip	HOLE No.
Dep. 146 + 47E	Length 47.5m	Bearing 270°						Dep.	Length	Bearing	RUSS-85-2

From METRES	To METRES	Recovery %	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width METRES	ASSAYS Cu/Mo	Pb/Pb	Ag	Au(ppb)
18.1	20.4	88	QUARTZ DACITE As above with minor amounts of fuchsite - fuchsite increases down hole - trace pyrrhotite, pyrite.	S_1 = 59° to C.A.								
20.4	21.3	100	QUARTZ DACITE As above - up to 15% fuchsite and 1% pyrite.	S_1 = 55° to C.A.	1% Py		83361	0.9	19 ppm / 2 ppm	6 ppm / 140 ppm	0.3 ppm	< 5 ppb
21.3	24.6	98	QUARTZ DACITE As above with up to 1% locally occurring pyrite.	S_1 = 55° to C.A.								
24.6	25.6	98	QUARTZ DACITE Minor brecciation with fuchsite occurring along fractures.				83362	1.0	8 ppm / 3 ppm	23 ppm / 48 ppm	0.5 ppm	< 5 ppb
25.6	26.4	98	ARGILLACEOUS DOLOSTONE Has minor epidote alteration.									
26.4	26.6	98	QUARTZ ARENITE Metamorphosed to a quartzite, grey to dark grey, fine to medium grained, massive.									
26.6	27.8	98	QUARTZ DACITE As above but without fucbsite.	S_1 = 55° to C.A.								
27.8	28.1	90	FAULT GOUGE									

DRILL LOG - 81

Date OCTOBER 15, 1986 Logged By C. SHEVCHENKO

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY		PROJECT No.	N.T.S. No.
Oct. 12, 1986	Oct. 12, 1986	NQ		BEARING		ANGLE		CAD CLAIM GROUP		110	82M/5W
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES			Sheet 3 of 5
Lat. 110 + 95N	Elev.	Dip -65	47.5 m			-69°	-64°	Lat.	Elev.	Dip	HOLE No.
Dep. 146 + 47E	Length 47.5m	Bearing 270°						Dep.	Length	Bearing	RUSS-85-2

From METRES	To METRES	Recovery %	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width METRES	ASSAYS Cu	Pb / Zn	Ag	Au (ppb
28.1	28.6	90	SILTSTONE/QUARTZ DACITE Grey phyllite with minor quartz dacite intercalations - some brecciation and secondary carbonate.									
28.6	34.8	90	SILTSTONE Medium grey aphanitic, moderately foliated with intercalations of quartzite - up to 1% local pyrite - May be slightly graphitic.	S_1 = 64° to C.A.								
34.8	35.4	70	SILTSONTE As above - up to 3% pyrite.		3% Py		83363	0.6	8 ppm	18 ppm / 26 ppm	0.2 ppm	< 5 ppb
35.4	38.5	100	SILTSTONE As above	S_1 = 64° to C.A.								
38.5	39.0	100	SILTSTONE As above - up to 3% pyrite occurring in veinlets.	S_1 = 70° to C.A.	3% Py		83364	0.5	92 ppm	15 ppm / 55 ppm	0.6 ppm	< 5 ppb
39.0	39.5	100	ARGILLACEOUS QUARTZITE Quartz arenite with siltstone intercalations - brecciated with epidote occurring along fractures.	S_1 = 52° to C.A.								
39.5	39.7	100	QUARTZ VEIN Barren									
39.7	40.7	100	ARGILLACEOUS QUARTZITE Quartz arenite with minor siltstone intercalations - up to 1% pyrite.	S_1 = 48° to C.A.	1% Py							

DRILL LOG - 81

Date OCTOBER 15, 1986 Logged By G. SHEVCHENKO

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Oct. 12, 1986	Oct. 12, 1986	NQ		BEARING		ANGLE		CAD CLAIM GROUP	110	82M/5W
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES		Sheet 4 of 5
Lat. 110 + 95N	Elev.	Dip -65	47.5 m			-69°	-64°	Lat.	Elev.	Dip	HOLE No.
Dep. 146 + 47E	Length 47.5 m	Bearing 270°						Dep.	Length	Bearing	RUSS-85-2

From METRES	To METRES	Recovery %	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width METRES	ASSAYS Cu / Mo	Pb / Zn	Ag	Au (ppb)
40.7	40.8	100	FAULT GOUGE				83365	0.3	44 ppm / 2 ppm	50 ppm / 43 ppm	0.5 ppm	< 5 ppb
40.8	41.0	100	QUARTZ VEIN Up to 2% pyrite		2% Py							
41.1	41.2	100	ARGILLACEOUS QUARTZITE As above									
41.2	41.4	100	MYLONITE Argillaceous Quartzite									
41.4	42.7	90	ARGILLACEOUS QUARTZITE As above	S_1 = 48° to C.A.								
42.7	43.7	90	ARGILLACEOUS QUARTZITE As above				83366	1.0	20 ppm / < 1 ppm	13 ppm / 46 ppm	0.3 ppm	< 5 ppm
43.7	45.0	90	ARGILLACEOUS QUARTZITE Blocky									
45.0	45.3	90	FAULT GOUGE									

DRILL LOG - 81

Date OCTOBER 15, 1986 Logged By G. SHEVCHENKO

NORANDA EXPLORATION COMPANY LTD.

Date Collared	Date Completed	Core Size	DIP TESTS					PROPERTY	PROJECT No.	N.T.S. No.
Oct. 12, 1986	Oct. 12, 1986	NQ		BEARING		ANGLE		CAD CLAIM GROUP	110	82M/5W
FIELD CO-ORDINATES			DEPTH	RECORDED	CORRECTED	RECORDED	CORRECTED	SURVEYED CO-ORDINATES		Sheet 5 of 5
Lat. 110 + 95N	Elev.	Dip -65	47.5 m			-69°	-64°	Lat.	Elev.	Dip	HOLE No.
Dep. 146 + 47E	Length 47.5 m	Bearing 270°						Dep.	Length	Bearing	RUSS-85-2

From METRES	To METRES	Recovery %	Description	Structure	% Sulph.	Est. Grade	SAMPLE No.	Width METRES	ASSAYS Cu/Mo	Pb/Zn	Ag	Au(ppb)
45.3	45.9	90	ARGILLACEOUS QUARTZITE									
45.9	46.0	90	FAULT GOUGE									
46.0	47.2	90	SILTSTONE As above	S_1 = 48° to C.A.								
47.2	47.5	90	FAULT GOUGE									
			END OF HOLE									

DRILL LOG - 81

Date OCTOBER 15, 1986 Logged By G. SHEVCHENKO

APPENDIX II

LAB ANALYSIS/ASSAY SHEETS AND METHODS

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 125-3865

PROJECT: 437 8511-039 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ag PPM	Au PPB
02 83358		7	11	31	2	0.2	<5
02 83359		14	5	58	1	<0.2	<5
02 83360		14	9	78	2	0.2	<5
02 83361		19	6	140	2	0.3	<5
02 83362		8	23	48	3	0.5	<5
02 83363		8	18	26	1	0.2	<5
02 83364		92	15	55	1	0.6	<5
02 83365		44	50	43	2	0.5	<5
02 83366		20	13	46	<1	0.3	<5

UTS GC

2473

GS DG

ENVIRONMENTAL TESTING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ASSAYING

Eco-Tech LABORATORIES LTD.

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393

September 3, 1985

CERTIFICATE OF ANALYSIS

CLIENT: Noranda Exploration Co. Ltd.
1050 Davie Street, Box 2380
VANCOUVER, B. C.
V6B 3T5

SAMPLE IDENTIFICATION: 8 drill core samples received August 26, 1985
(requested by Glen Shebchenko)

CERTIFICATE OF ANALYSIS NUMBER: ETK 85-59

Description	Au (oz/T)	Ag (oz/T)	Cu (%)	Pb (%)	Zn (%)	Mo (%)	Cr (%)
1051 B	0.001	0.09	0.01	0.01	0.01	<0.01	<0.01
1052 B	0.001	0.10	0.01	0.01	0.02	0.01	<0.01
1053 B	0.001	0.10	<0.01	0.01	0.01	0.01	<0.01
1054 B	0.002	0.22	0.01	0.01	0.08	0.01	<0.01
1055 B	0.002	0.10	<0.01	<0.01	0.01	0.01	<0.01
1056 B	0.002	0.10	0.01	<0.01	0.01	0.01	<0.01
1057 B	0.002	0.10	<0.01	0.01	0.01	0.01	<0.01
1058 B	0.003	0.12	<0.01	0.01	<0.01	0.01	<0.01

NOTE: < = less than

ECO-TECH LABORATORIES LTD.
Thomas J. Fletcher, B.Sc.
Chief Assayer

TJF/mil

cc: Noranda Exploration
Site 12-64, R. R. #1
Chase, B. C. V0E 1M0

2. Geochemical methods

All of the analytical methods used by Bondar-Clegg have proven to be dependable and accurate. However, our continuing method development and response to technological advances have altered a few procedures over the years. Listed below are the most common techniques:

Element	Extraction	Method of Analysis
*Cu, *Pb, *Zn, *Mo, *Ag, *Cd, *Ni, *Co, *Mn, *Fe	Lefort Aqua Regia	Atomic Absorption
*U	HN03	Fluorimetric
*W	Basic Oxidation Fusion	Colourimetric
F	Basic Fusion	Citrate Buffer-Specific Ion
Au, Pt, Pd	Fire Assay	Atomic Absorption (or gravimetric for assay)
*As	HCL04 - HN03 Arsine	Colourimetric
Hg	Aqua Regia	Closed Cell, Flameless Atomic Absorption
*Sn, *Sb, *Ba, *Rb, *Sr, Y Zr, *Nb, La, Ce, Ti		Energy dispersive XRF
Th, *Se, *Ta, Ga, In		Wavelength dispersive XRF
*Sb (low detection)	HCL - organic extraction	Atomic Absorption
*Bi	HN03	Atomic Absorption
*V, *Be, *Li	HCL04 - HN03 - HF	Atomic Absorption
*Cr	Sodium Peroxide Fusion	Atomic Absorption
*Te	HBr - Br + Organic Extraction	Atomic Absorption
Tl	Multi-acid HBr - Br + Organic extraction	Atomic Absorption
B	Basic Fusion	Plasma
Re	Alkali Fusion + Organic Extraction	Atomic Absorption
C		Leco Induction Furnace

* These elemenst are now available by plasma; please refer to the price list for clarification.

APPENDIX III

STATEMENT OF COSTS

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

PROJECT Adams Plateau - CAD CLAIM GROUP DATE FEBRUARY 1986

TYPE OF REPORT DRILLING

a) Wages:

No. of Days 8

Rate per Day $ 121.23

Dates From: August 19 - October 14, 1985

Total Wages 8 x $ 121.23 $ 969.84

b) Food and Accomodation:

No of days 7

Rate per day $ 45.00

Dates From: August 19 - October 14, 1985

Total Cost 7 x $ 45.00 $ 315.00

c) Transportation:

No of days 7

Rate per day $ 45.00

Dates From: August 19 - October 14, 1985

Total Cost 7 X $ 45.00 $ 315.00

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)	$ 146.25 + $ 430.00	$ 576.25
g)	Cost of preparation of Report		
	Author		$ 200.00
	Drafting		$ 100.00
	Typing		$ 100.00
h)	Other:		
	Contractor - OLYMPIC DIAMOND DRILLING		$ 19,253.96

Total Cost $ 21,830.05

e) Unit costs for Drilling

No of days

No of units 184.70 metres

Unit costs	$ 21,830.05	/	184.70 metres	$ 118.19/m
Total Cost	$ 118.19/m	×	184.70 metres	$ 21,830.05

NORANDA EXPLORATION COMPANY, LIMITED

(WESTERN DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT: Adams Plateau - CAD CLAIM GROUP

ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL
Bondar Clegg (Geochem)			
Cu	9	2.00	18.00
Mo	9	1.00	9.00
Pb	9	1.00	9.00
Zn	9	1.00	9.00
Ag	9	1.00	9.00
Au	9	7.00	63.00
Sample Preparation	9 X $ 3.25		29.25
			$ 146.25
Eco - Tech (Assays)			
Au	8	8.00	64.00
Ag	8	8.00	64.00
Cu	8	5.75	46.00
Pb	8	6.25	50.00
Zn	8	6.25	50.00
Mo	8	6.25	50.00
Cr	8	10.00	80.00
Sample Preparation	8 X $ 3.25		26.00
			$ 430.00

APPENDIX IV

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Glenn Shevchenko of the City of Vancouver, Province of British Columbia do hereby certify that:

I am a geologist residing at 1090 Parker Street, White Rock, B.C.

I graduated from Concordia University, Montreal, Quebec in 1982 with a Bachelor of Science Degree in Geology.

I have worked in mineral exploration since 1977 and have practised my profession since 1982.

I am presently employed with Noranda Exploration Company, Limited, and have been since May, 1984.

Glenn Shevchenko

NCI - 781

14100E. 14200E. 14300E. 14400E. 14450E. 14500E. 14600E. 14700E. 14800E.

NBR 8
BR 1

L.11350N.
L.11300N.
L.11250N.
L.11200N.
L.11150N.
L.11100N.
L.11050N.
L.11000N.
L.10950N.
L.10900N.
L.10850N.
L.10800N.
L.10750N.
L.10700N.
L.10650N.
L.10600N.
L.10550N.
L.10500N.

D.D.H. RUSS - 85·1
Az.: 270°

D.D.H. RUSS - 85·2
Az.: 270°

L.C.P.

CAD
RUSS 300

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,397

SCALE
1:2500

Metres 50 0 50 100 150 200 250 Metres

REVISED

ADAMS PLATEAU
RUSS GRID
D.D.H. LOCATION MAP
RUSS - 85 · 1&2

PROJ. No. 4·10
N.T.S. 82M/5W
DWG. No. 2

SURVEY BY: G.S. DATE: Feb./86
DRAWN BY: [illegible] SCALE: 1:2500

NORANDA EXPLORATION
OFFICE Vancouver