

NORAMEX MINERALS INC.

Diamond Drilling Report on the Root Property

Nelson Mining Division, B.C.

Root 1	1067(5)
Root 2	1068(5)
Root 3	1069(5)
Root 4	1070(5)
Twin 3	2706(7)
Twin 4	2707(7)
Jo-Anne 2	3284(7)
Jo-Anne 3	3285(7)
Jo-Anne 4	3286(7)
Jo-Anne 5	3287(7)
Jo-Anne 6	3288(7)

NTS Reference	82F/6W
Longitude	117° 29'W
Latitude	49° 24'N

Consultant: Nevin Sadlier-Brown Goodbrand Ltd.

Prepared by: Dwayne L. Melrose, Geologist

Work Dates: March 21 - 27
April 13 - May 15, 1984

Date of Report: June 6, 1984

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**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,937

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1. INTRODUCTION

1.1 Terms of Reference

Nevin Sadlier-Brown Goodbrand Ltd. was retained by Noramex Minerals Inc. as its technical consultants to carry out a diamond drilling program on its Root property (Figure 1). The work was done in accordance with recommendations contained in a report by P.J. Santos dated July, 1983.

The field work was performed during March 22-27 and April 13 to May 15 by Dwayne L. Melrose, Geologist, Ken Syrja, Lawrence Samayloff, both technicians, Karl Turner, skidder and hoe operator and by Bergeron Drilling Ltd., the drill contractor.

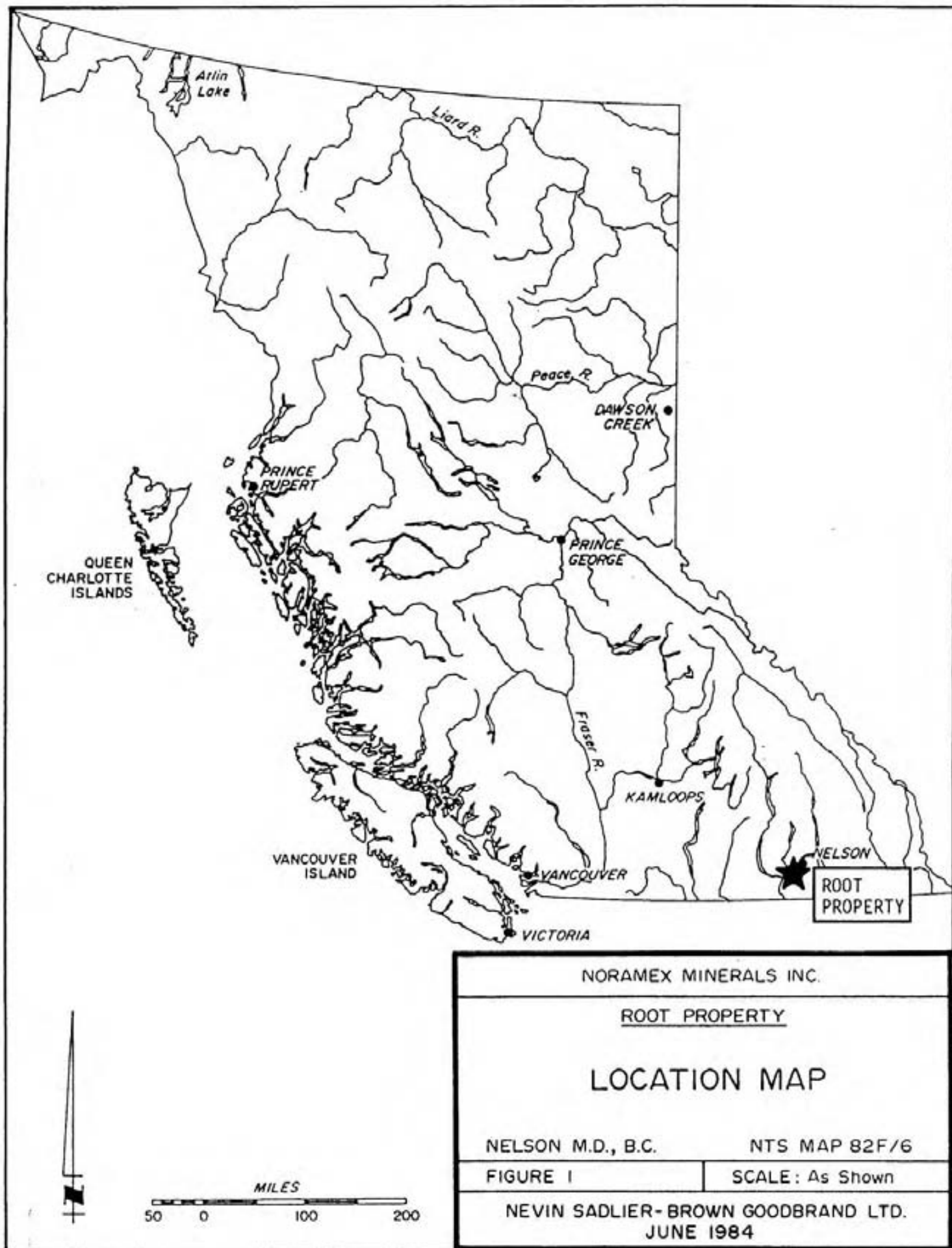
1.2 Location and Access (Figure 1)

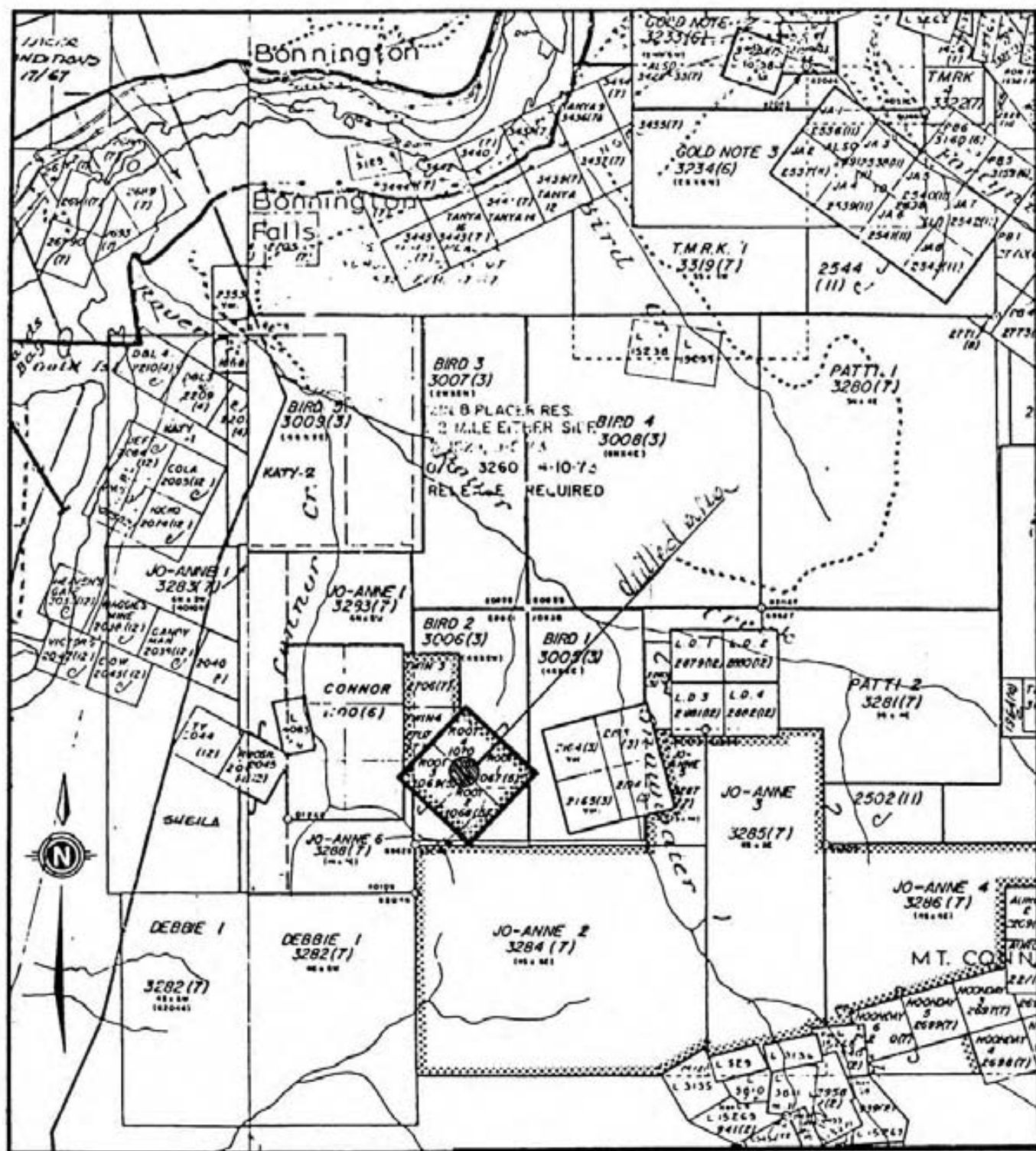
The Root Claim Group is located about 15 kilometres west-southwest of Nelson in the Nelson Mining Division, B.C. The property is bounded on the west by Connor Creek and on the east by Rover and Snowwater Creeks.

Access is via good logging roads branching from the Rover Creek forestry road. A narrow, winding, four-wheel drive road leads to the ridgetop and effectively traverses the Root claims.

1.3 Claims and Ownership (Figure 2)

The property is comprised of 6 two-post claims; the Root 1-4 and the Twin 3 and 4, as well as 5 modified grid claims; the Jo-Anne 2, 3, 4, 5 and 6 consisting of 20, 12, 16, 2 and 2 units respectively. In its entirety a total of 58 claim units are held by Noramex Minerals Inc. through an option agreement with Ms. Rosalyne Paszty and Ms. Nina Terekoff of Castlegar, B.C. with respect to the Root 1-4, and acquired by staking and owned outright with respect to the Jo-Anne 2-6. The Twin 3-4 are owned outright through a purchase. The claims under discussion are listed below:





NORAMEX MINERALS INC.

ROOT PROPERTY

CLAIM MAP

NELSON M.D., B.C.

NTS MAP 82F/6

FIGURE 2

SCALE 1:50,000

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<u>Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Date Recorded</u>	<u>Registered Owner</u>
Root 1	1067(5)	1	May 28, 1979	Noramex Minerals Inc.
Root 2	1068(5)	1	May 28, 1979	" " "
Root 3	1069(5)	1	May 28, 1979	" " "
Root 4	1070(5)	1	May 28, 1979	" " "
Twin 3	2706(7)	1	July 19, 1982	" " "
Twin 4	2707(7)	1	July 19, 1982	" " "
Jo-Anne 2	3284(7)	20	July 4, 1983	" " "
Jo-Anne 3	3285(7)	12	July 4, 1983	" " "
Jo-Anne 4	3286(7)	16	July 4, 1983	" " "
Jo-Anne 5	3287(7)	2	July 4, 1983	" " "
Jo-Anne 6	3288(7)	2	July 4, 1983	" " "

1.4 Physiography and Vegetation

Elevations on the Root claims range from about 1100m to 1500m ASL. The topography consists of a gently undulating ridge-top bound by moderately-steep slopes descending to the adjacent creeks. The area is generally heavily wooded with a variety of mature evergreens and deciduous trees although, in old burns, the forest has been replaced by thick and mixed undergrowth.

1.5 Previous Work

On the Root claims an old shaft was sunk on the main showing and on two adits approximately 150 metres south of the shaft which apparently follow a narrow galena vein. No record of this work can be found anywhere.

Steve Paszty and Alex Terekoff actively prospected the property, conducted Self-Potential and magnetic surveys on the property. They later trenched the anomalies they found and obtained encouraging results.

Noramex Minerals Inc. conducted soil geochemical, magnetometer and VLF-EM surveys in 1983 which resulted with magnetometer, soil geochemical and VLF-EM anomalies.

1.6 Summary of Work

This report describes work performed between March 22-27 and April 13-May 15, 1984 on the Root property, primarily on the Root 1-4 claims. Seven drill holes were drilled for a total of 1393 feet (424.6m). The site locations was tied into the existing grid using chain and compass.

In late March the snow was plowed off the road so early access could be obtained and so that the road could dry before hauling heavy equipment on it. Noramex Minerals Inc. in conjunction with Crestwood Logging cleared a major earth slump on Rover Creek Forestry road so access could be obtained.

The core is stored in a local prospector's yard in Nelson.

2. GEOLOGY

2.1 Regional Geology (Figure 1)

The following regional geology is summarized from Little (1980) by Santos (1983).

"The area between Nelson and Castlegar is underlain by early Mesozoic to Late Jurassic rock units consisting of The Rossland Formation, Hall Formation, Ymir Formation, and The Nelson Plutonic Rocks (Little).

This area lies on the eastern flank of the eugeosyncline bordering The Kootenay Arc, an arcuate belt of sedimentary, volcanic, and metamorphic rocks.

The Rossland Formation rock units are essentially greenstones made up of andesite flows some of which have undergone alteration to serpentine in proximity to intrusive rocks. Usually the volcanics are porphyritic in texture when unaltered.

The Hall Formation rock units are dark coloured carbonaceous argillites, slates, phyllites, interbedded sandstones and chert overlying The Rossland volcanics. Some beds are tuffaceous and some thin-bedded limestone and conglomerate are included in this formation.

The Ymir Formation has similar rock units to the Hall Formation. It consists, for the most part, of black, carbonaceous argillites, slates, and limestones.

The Hall and Ymir Formations correlate with The Milford Series in the Tillicum area of British Columbia.

LEGEND

CLINOZOIC

LOWER CRETACEOUS(?)

- [20] Valhalla Plutonic Rocks: granite, minor pegmatite
- [19] Nelson Plutonic Rocks: 19b - non-porphyrific granite to granodiorite; 19c - granodiorite; 19d - quartz diorite; 19e - syenite; 19f - mainly fine grained, porphyritic syenite to quartz diorite; 19h - pseudodiorite & pyroxene-hornblende-biotite rock; 19k - diorite

MESOZOIC

JURASSIC

MIDDLE & (?)UPPER JURASSIC

- [17] Hall Formation: Argillite, sandstone & conglomerate

LOWER JURASSIC

- [16] Rossland Formation: Andesite, latite, basalt, flow breccia, augite porphyry, agglomerate, tuff; minor shale
- [15] Simurian Beds: argillite, argillaceous quartzite, slate; minor flows & pyroclastic rocks. May be equivalent to upper parts of 13 & 14

PERMIAN(?), TRIASSIC(?) & LOWER JURASSIC(?)

YMR GROUP

- [14] Argillite, slate, argillaceous quartzite; minor limestone
- [B] Argillite, argillaceous quartzite, greywacke; locally conglomerate; minor flows & pyroclastic rocks. Probably not older than Carboniferous, but in part may be Jurassic
- [A] Augen gneiss, hornblende-biotite-feldspar gneiss; minor crystalline limestone & skarn. Probably Early Mesozoic



Taken from GSC Map 1090 A

SCALE - MILES

0 5 10



NORAMEX MINERALS INC.

ROOT PROPERTY

REGIONAL GEOLOGY MAP

NELSON M.D., B.C.

GSC MAP 1090A
NTS MAP B2F/6

FIGURE 3

SCALE 1:253,440

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The Nelson Plutonic Rocks intrude units of The Rossland, Hall, and Ymir Formations. These intrusives grade from a very coarse porphyritic granite with large feldspar phenocrysts to equigranular granite. Often this granite is foliated and contains pegmatoid lenses following a NW-SE orientation. The Nelson Formation also grades into granodiorite to dioritic phases and at the chilled contact with the older rock grades into andesite porphyry within a limited area. Included in this formation are lamprophyre dykes and sills in varying thicknesses. Typically the lamprophyre consists exclusively of biotite and pyroxene but may grade into a basaltic composition."

2.2 Property Geology

The main Root showing appears to be stratabound on a large scale, however, cross-cutting relationships to bedding in the Hall Formation and brecciation are clearly observed locally in some areas. The massive sulphides occur as numerous bands intercalated with silicified sediments containing disseminated sulphides.

The main showing is approximately 3-6 metres wide and 111 metres in length. The showing is exposed by stripping and trenching. The main showing coincides with a magnetometer anomaly which extends for 300 metres to the west of the main showing.

3. DIAMOND DRILLING

3.1 Purpose

The Root property was diamond drilled to further delineate the surface massive sulphide showing at depth and strike length and to test the magnetometer, VLF-EM and geochemical soil anomalies that were located during the 1983 field program (see Reader, J.F. and Melrose, D.L., 1983).

Seven holes were drilled for a total of 1393 feet or 426.6 metres.

3.2 Sampling and Analytical Method

Core with mineralization and zones of interest were split on site with one half sent for assay and the other half retained for future reference.

A total of 86 samples fire assayed for Au and 31 samples were subjected to ICP 26 element testing (see Appendix B) by Min-En Laboratories Ltd. of Vancouver, B.C.

3.3 Discussion of Results

A plan map showing the location of drill holes is given in Figure 4 and sections through the drill holes are given in Figures 5, 6 and 7.

Table 1 summarizes the significant gold intersections. Drill logs and assay data are presented in Appendix B.

Drill holes 84-1, 2 and 3 were drilled towards the surface showings from the northeast.

Root-84-1 consists mainly of chloritic silicified limestone (see Figure 5 and Appendix C). There are minor disseminated and semi-massive zones of pyrite and pyrrhotite with the most mineralization occurring towards the bottom of this silicified unit. The best assay from this hole is 0.013 oz/ton Au over 0.9 feet (0.3 metres). The best mineralization was found to occur with the most intense chloritic alteration.

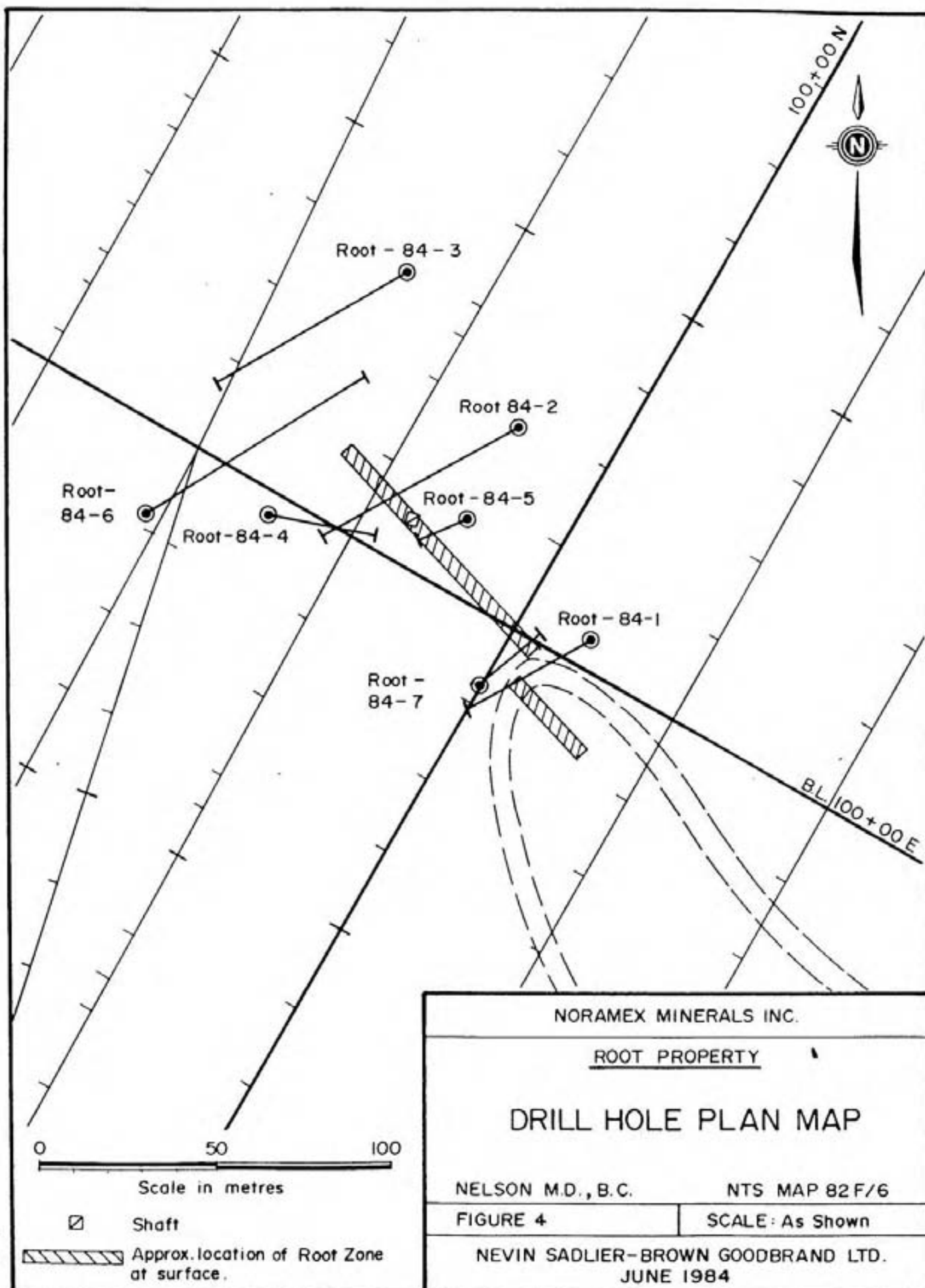
Root-84-2 encountered a porphyritic intrusive, unaltered limestone, chloritic silicified limestone, and graphitic schist lithologies. Disseminated to small sporadic semi-massive zones of pyrrhotite and pyrite occur within the chloritic silicified limestone and graphitic schist. The highest assay is 0.066 oz/ton Au over 2.3 feet or 0.7 metres.

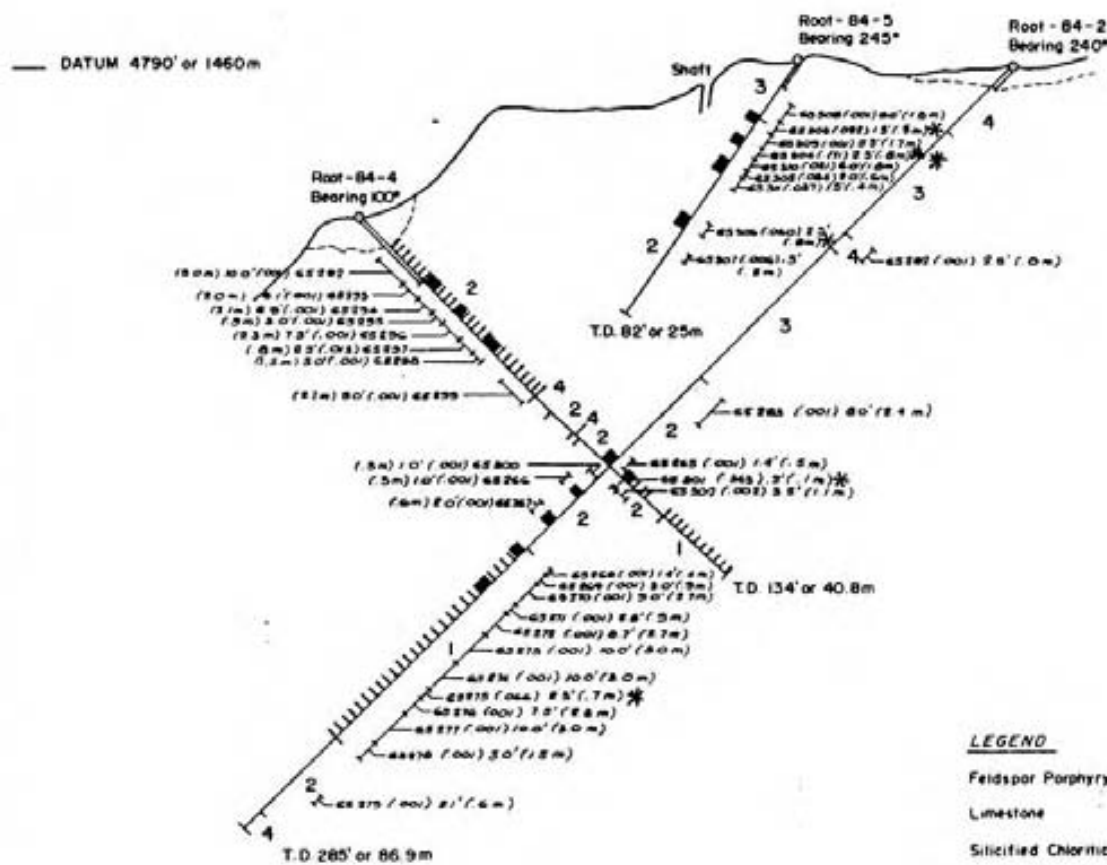
Root-84-3 consists of unaltered limestone, chloritic silicified limestone, graphitic schist and a small intersection of porphyritic intrusive. Small zones of disseminated pyrite and pyrrhotite were encountered within the chloritic silicified limestone and graphitic schist.

Root-84-4, drilled into the zone from the southwest, consists mainly of chloritic silicified limestone with minor intersections of porphyritic intrusive and graphitic schist. Zones of disseminated to semi-massive pyrite, pyrrhotite and chalcopryrite were found within the chloritic, silicified limestone and disseminated pyrrhotite and pyrite occurs within the graphitic schist. The best assay from Root-84-4 assayed 0.363 oz/ton Au over 0.5 feet or 0.1 metres and was located within the chloritic silicified limestone. The silicification, alteration and mineralization is similar to that of the surface showing.

Table 1

<u>Drill Hole</u>	<u>Sample No.</u>	<u>Depth</u>	<u>Width</u>	<u>Au oz/ton</u>
Root-84-2	65275	226.2-228.5 ft (68.9-69.6m)	2.3 ft (.7m)	.066
Root-84-4	65301	94.0-94.5 ft (28.7-28.8m)	0.5 ft (0.1m)	.363
Root-84-5	65303	18.0-19.5 ft (5.5-5.9m)	1.5 ft (0.5m)	.092
Root-84-5	65304	25.0-27.5 ft (7.6-8.4m)	2.5 ft (0.8m)	.171
Root-84-5	65306	51.5-54.0 ft (15.7-16.5m)	2.5 ft (0.8m)	.060
Root-84-6	65314	75.0-76.0 ft (22.9-23.2m)	1.0 ft (0.3m)	.107
Root-84-7	65320	15.0-15.5 ft (4.6-4.7m)	0.5 ft (0.1m)	.058





Root-B4-5 is 3metres north of section Root-B4-2.
 Root-B4-4 is colored 20 metres north of section
 Root-B4-2 and bearing 100°.

LEGEND

Feldspar Porphyry Intrusive	4
Limestone	3
Silicified Chloritic Limestone	2
Graphitic Schist (Argillite)	1
Disseminated mineralization	
Semi-massive to massive mineralization	■■■■■

Sample No. Assay Depth
 example 65301 (.363) .5'(1m)
 * Assay over .05 oz/ton Au

0 25'
 0 7.6m
 Scale

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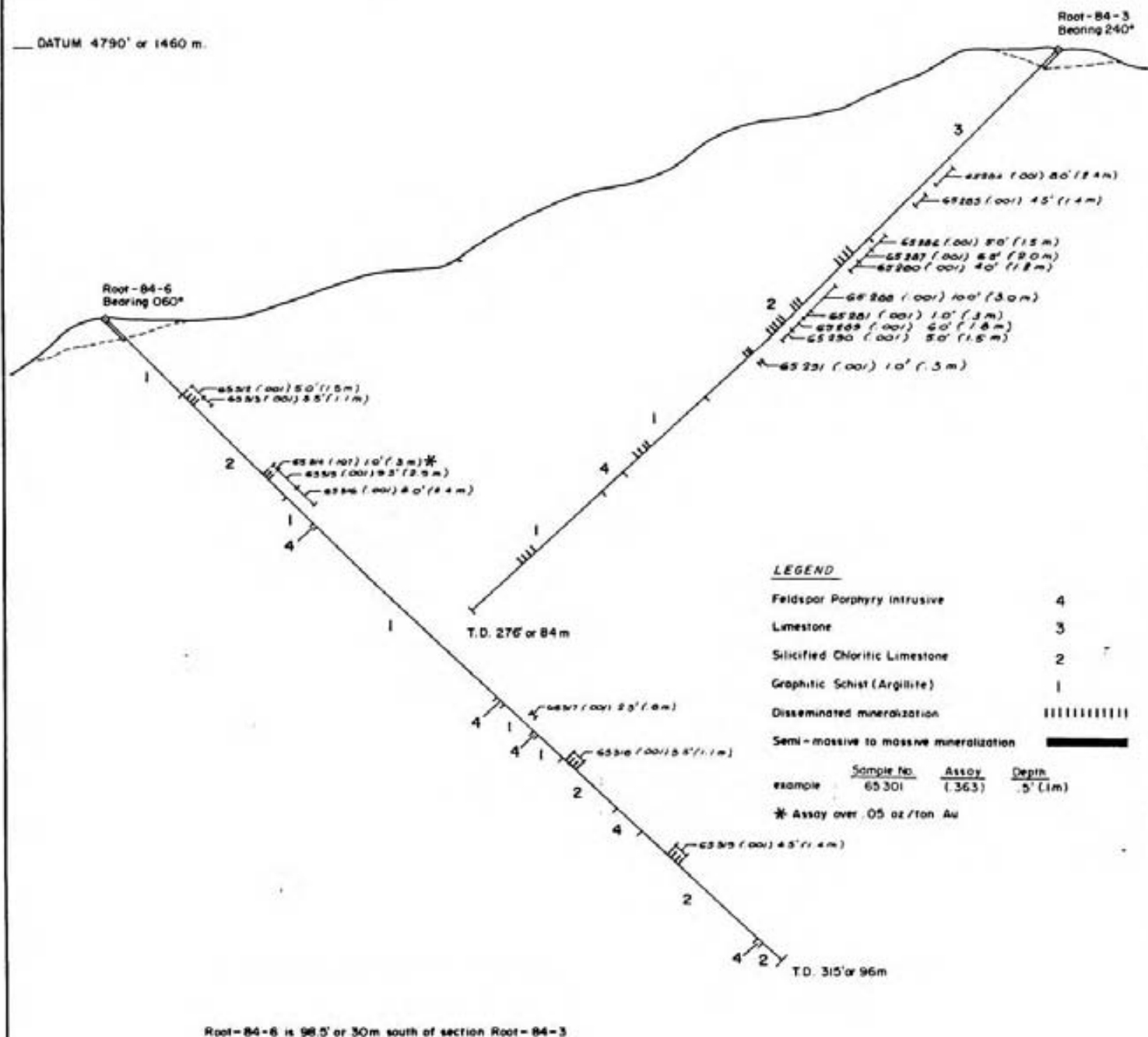
ROOT PROPERTY

SECTION ROOT-B4-2

NELSON M.D., B.C. NTS MAP 82F/6

FIGURE 6 SCALE: As Shown

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0 25'
0 76m
Scale

NORAMEX MINERALS INC.	
ROOT PROPERTY	
SECTION ROOT-84-3	
NELSON M.D., B.C.	NTS MAP 82 F/6
FIGURE 7	SCALE: As Shown
NEVIN SADLER-BROWN GOODBRAND LTD.	
JUNE 1984	

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Root-84-5 consists of chloritic silicified limestone and unaltered limestone. Within the chloritic silicified limestone there are four semi-massive to massive zones, 1.5 to 2.5 feet thick, of pyrite, pyrrhotite and chalcopyrite. The four zones assayed 0.092 oz/ton Au over 1.5 feet (0.5m), 0.171 oz/ton Au over 2.5 feet (0.8m), 0.034 oz/ton Au over 2.0 feet (0.6m) and 0.06 oz/ton Au over 2.5 feet (0.8m). Intense chloritic alteration occurs with the above mentioned mineralization.

Root-84-6 consists mainly of graphitic schist and chloritic silicified limestone with minor intersections of porphyritic intrusive. Within the chloritic silicified limestone and graphitic schist there are small, sporadic zones of disseminated pyrite and pyrrhotite. The best assay from Root-84-6 assayed 0.107 oz/ton Au over 1.0 feet (0.3m).

Root-84-7 consists entirely of chloritic silicified limestone. There are a few sporadic and minor zones of disseminated to semi-massive pyrite and pyrrhotite. The best assay from Root-84-7 assayed 0.058 oz/ton Au over 0.5 feet (0.1m).

4. CONCLUSIONS

Drill results to date have not indicated ore grade intersections over mineable widths. Due to the presence of gold assays and a favourable depositional environment for exhalative volcanogenic deposits. Investigations should be made along the magnetic and EM conductor anomalies occurring along strike to the west from the Root showing.

Respectfully submitted,

NEVIN SADLIER-BROWN GOODBRAND LTD.



Dwayne L. Melrose, Geologist

June 6, 1984

5. BIBLIOGRAPHY

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- Rockel, E.R., 1984: Preliminary Report on Electromagnetic Surveys on the Root Property, Nelson, B.C.
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APPENDIX A
Statement of Qualifications

Statement of Qualifications

I, Dwayne L. Melrose hereby certify that:

1. My residence address is 323 Seymour River Place, North Vancouver, B.C. V7H 1S6.
2. I am a consulting geologist with the firm of Nevin Sadlier-Brown Goodbrand Ltd., Suite 401-134 Abbott Street, Vancouver, B.C. V6B 2K4.
3. I hold a B.Sc. in Honours Earth Science from the University of Waterloo, Waterloo, Ontario. I have been practicing my profession since 1981.
4. I am an Associate member of the Geological Association of Canada.


Dwayne L. Melrose, Geologist

June 6, 1984

APPENDIX B
Drill Logs

NEVIN SADLIER - BROWN GOODBRAND LTD.

PROPERTY ROOT

HOLE No. ROOT-84-1

Page 1 of 4

DIP TEST		
Footage	Angle	
	Reading	Corrected

Grid Location 99+80N 100+05E Bearing 240° Total Depth 184' (56.1m)
 Date Begun April 26, 1984 Elev. Collar 4790 ft (1460m) Logged By D. Melrose
 Date Finished April 28, 1984 Collar Dip 45° Core Size BQ
 *() indicates metres NTS 82F/16W

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au oz/t			
0 23'		Casing (overburden)								
(7m)										
23 32.1	95%	Porphyritic Felsic Intrusive	65251	26.0	34.8	8.8	.001			
(7) (9.8)		- grey, medium grained, 5% calcite phenocrysts,		(7.9)	(10.6)	(2.7)				
		very small blebs of chlorite, aphanitic	65252	34.8	36.5	1.7	.001			
		groundmass, foliation 50° to C.A., minor quartz		(10.6)	(11.1)	(0.5)				
		veining and stringers with minor carbonate.	65253	36.5	46.0	9.5	.001			
				(11.1)	(14.0)	(2.9)				
			65254	55.5	57.5	1.9	.001			
				(16.9)	(17.5)	(0.6)				
32.1 57.4	80-95%	Graphitic Schist (Argillite)								
(9.8) (17.5)		- fine grained, black to dark grey, black streak,								
		foliation 15° to C.A., minor quartz veining								
		and stringers, foliation more pronounced with								
		depth, colour gradually gets darker with depth.								
		56.2 (17.1) - 57.4 (17.5) disseminated, bedded								
		and stringer pyrite, sharp contact.								
		57.0 (17.4) foliation 15° to C.A.								

Dwayne R. Melrose

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HOLE No. ROOT-84-1

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HOLE No. ROOT-84-1

Page 4 of 4.

[illegible]

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PROPERTY ROOT

HOLE No. ROOT-84-2

Page 1 of 4

DIP TEST		
Footage	Angle	
	Reading	Corrected

Grid Location 100+28N 100+44E Bearing 240° Total Depth 285' (86.7m)
 Date Begun April 28, 1984 Elev. Collar 4790' (1460m) Logged By D. Melrose
 Date Finished May 1, 1984 Collar Dip 45° Core Size BQ
 * () indicates metres NTS 82F/6W

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au oz/t			
0 8.0 (2.4)		Overburden								
8.0 25.0	95%	Porphyritic Felsic Intrusive (QFP) dark grey, medium grained, minor calcite porphyroblasts, minor chloritic blebs, equigranular groundmass, trace pyrite, foliation 70° to C.A.								
25.0 63.0 (7.6) (19.2)		Limestone light grey, medium grained, siliceous, effervescent 10% quartz stringers, minor chloritic alteration in places, sharp contacts.	65282	65.0	67.5	2.5	.001			
63.0 67.5 (19.2) (20.6)		Mafic Dyke dark green, medium grained, aphanitic chloritic soft and scratch, minor quartz veining.		(19.8)	(20.5)	(.8)				
67.5 180.1 (20.6) (54.9)		Limestone as 25.0(7.6)-63.0(19.2)	65283	121.0	129.0	8.0	.001			
				(36.9)	(39.3)	(2.4)				

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HOLE No. ROOT-84-2

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HOLE No. ROOT-84-1Page 3 of 4.

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au oz/t			
FROM	TO										
180.1	251.0		Graphitic, Schist (Argillite)	65268	180.1	182.5	1.4	.001			
			- black, fine grained, foliation 75° to C.A.,		(54.9)	(55.6)	(.4)				
			bedding 15° to C.A., has minor quartz veining	65269	182.5	185.5	3.0	.001			
			and stringers filling fractures and tension		(55.6)	(56.5)	(.9)				
			cracks, micro faulting and soft sediment is	65270	185.5	194.5	9.0	.001			
			noticed, this unit overall has 5% stringer		(56.5)	(59.3)	(2.7)				
			and bedded porphyry.	65271	194.5	197.3	2.8	.001			
					(59.3)	(60.1)	(.9)				
				65272	197.3	206.0	8.7	.001			
					(60.1)	(62.8)	(2.7)				
			182.5(55.6)-185.5(56.5) 10% po with trace py	65273	206.0	216.0	10.0	.001			
					(62.8)	(65.8)	(3.0)				
			194.5(59.3)-197.3(60.1) 10% po, trace py	65274	216.0	226.0	10.0	.003			
					(65.8)	(68.8)	(3.0)				
			226.4(69.0)-226.6(69.1) 70% po, 5% cpy	65275	226.2	228.5	2.3	.066			
					(68.9)	(69.6)	(.7)				
			245.8(74.9)-246.0(75.0) 60% po	65276	228.5	236.0	7.5	.001			
					(69.6)	(71.9)	(2.3)				
				65277	236.0	246.0	10.0	.001			
					(71.9)	(75.0)	(3.0)				
				65278	251.0	256.0	5.0	.001			
					(76.5)	(78.0)	(1.5)				

Page 4 of 4.

[illegible]

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PROPERTY ROOTHOLE No. ROOT-84-3Page 1 of 3

DIP TEST		
	Angle	
Footage	Reading	Corrected

Grid Location 100+75N 100+70E Bearing 240° Total Depth 276' (84.1m)
 Date Begun May 1, 1984 Elev. Collar 4790' (1460m) Logged By D. Melrose
 Date Finished May 4, 1984 Collar Dip 45° Core Size BQ
 * () indicates metres NTS 82F/6W

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au oz/t			
0 8		Overburden								
(2.4)										
8.0 91.5	95-100%	Limestone	65284	56.0	64.0	8.0	.001			
(2.4) (27.9)		- light to dark grey, streaky and banded		(17.1)	(19.5)	(2.4)				
		appearance, fine to coarse grain (fine due to	65285	68.5	73.0	4.5	.001			
		silicification), effervescent, 5% quartz		(20.9)	(22.3)	(1.4)				
		stringers, bedding 20-30° to C.A., has minor	65286	88.5	93.5	5.0	.001			
		pyritic zones scattered throughout,		(27.0)	(28.5)	(1.5)				
		minor carbonate present from 8.0(2.4)-49.0(14.9)	65280	100.0	104.0	4.0	.001			
		68.5(20.9)-75.5(23.0) chloritized zone		(30.5)	(31.7)	(1.2)				
			65281	122.5	123.5	1.0	.001			
				(37.3)	(37.6)	(.3)				
			65287	93.5	100.0	6.5	.001			
				(28.5)	(30.5)	(2.0)				
91.5 167.0		Chloritized and Silicified Zone (probably	65288	111.0	121.0	10.0	.001			
(27.9) (50.9)		Altered Limestone)		(33.8)	(36.9)	(3.0)				
		Light greenish grey to dark green, fine	65289	125.5	131.5	6.0	.001			
		grained, green scratch, foliation 20-30° to C.A.,		(38.3)	(40.1)	(1.8)				
		5% quartz stringers, has porphyry and pyrite	65290	131.5	136.5	5.0	.003			
		zones scattered throughout.		(40.1)	(41.6)	(1.5)				

Dwight P. Melrose

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Page 2 of 3.

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NEVIN SADLER- BROWN GOODBRAND LTD.

HOLE No. ROOT-84-3

Page 3 of 3.

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE			
FROM	TO									
206.2	216.0	90-95%	Chloritic Quartz Feldspar Porphyry Intrusive							
(62.8)	(65.8)		- dark green and white speckled appearance,							
			soft green scratch, fine to medium grained							
			groundmass, 1-3mm in diameter quartz							
			porphyroblasts, minor quartz stringers and							
			veining, mild sericite and epidote							
			alteration at lower contact, sharp contacts.							
216.2	276.0	90-100%	Graphitic Schist (Argillite)							
(65.8)	(84.1)		as 167.0(50.9)-206.1(62.8)							
276.0			END OF HOLE							

(84.1)

NEVIN SADLIER- BROWN GOODBRAND LTD.

PROPERTY ROOT

HOLE No. ROOT-84-4

Page 1 of 3

DIP TEST		
	Angle	
Footage	Reading	Corrected
134'	43°	

Grid Location 100+75N 99+93E Bearing 100° Total Depth 134' (40.8m)
 Date Begun May 5, 1984 Elev. Collar 4750' (1448m) Logged By D. Melrose
 Date Finished May 6, 1984 Collar Dip 45° Core Size BQ
 * () indicates metres NTS 82F/6W

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au oz/t			
0 10		Overburden (casing to 23' (7m) due to blocky ground and cave ins)								
(3.0)										
10 67.5	85-90%	Silicified Chloritic Limestone	65292	10.0	20.0	10.0	.001			
(3.0) (20.6)		greyish green to greenish grey, fine grained,		(3.0)	(6.1)	(3.0)				
		<5% quartz veins and stringers, foliation 70 to	65293	20.0	26.1	6.1	.001			
		80° to C.A., blocky to 26 feet, mineralized zones		(6.0)	(8.0)	(2.0)				
		are more chloritic than non-mineralized zones,	65294	26.1	33.0	6.9	.001			
		minor epidote at top of hole and bottom contact,		(8.0)	(10.0)	(2.1)				
		minor micro folding and faulting noticed.	65295	33.0	36.0	3.0	.001			
		20.0(6.0)-26.7(8.0) 15%py 5%po trace cpy		(10.1)	(11.0)	(.9)				
		33.0(10.1)-36.0(11.0) 10-15% py 1-3% po	65296	36.0	43.5	7.5	.001			
		43.5(13.3)-46.0(14.0) 30% py 15% po 1-2% cpy		(11.0)	(13.3)	(2.3)				
			65297	43.5	46.0	2.5	.013			
				(13.3)	(14.0)	(.8)				
			65298	46.0	51.0	5.0	.001			
				(14.0)	(15.5)	(1.5)				
			65299	57.5	66.5	9.0	.001			
				(17.5)	(20.3)	(2.7)				

Dwayne R. Melrose

NEVIN SADLER - BROWN GOODBRAND LTD.

HOLE No. ROOT-84-4

Page 2 of 3

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au oz/t		
FROM	TO									
67.5	71.0	85-95%	Quartz-Chlorite-Muscovite-Schist (Dyke)							
(20.6)	(21.6)		blackish green, coarse to medium grained, euhedral quartz and muscovite porphyroblasts has a dark green sheen, green scratch, foliation 60-70° to C.A.							
71.5	79.5		Silicified Chloritic Limestone							
(21.6)	(24.2)		as 10.0 to 67.5 74.5 (22.7) - 79.5 (24.2) chlorite very minor							
79.5	80.0		Quartz-Chlorite-Muscovite-Schist (Dyke)							
(24.2)	(24.3)		as 67.5 (20.6) - 71.0 (21.6)							
80.0	80.5		Brecciated Silicified Chloritic Limestone							
(24.3)	(24.5)		as 10.0 (3.0) - 67.5 (20.6) but has felsic lapilli sized fragments.							
80.5	81.0		Quartz-Chlorite-Muscovite-Schist Dyke							
(24.5)	(24.7)		as 67.5 (20.6) - 71.0 (21.6)							

NEVIN SADLER - BROWN GOODBRAND LTD.

HOLE No. ROOT-84-4

Page 3 of 3.

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NEVIN SADLIER- BROWN GOODBRAND LTD.

PROPERTY ROOT

HOLE No. ROOT-84-5

Page 1 of 2

DIP TEST		
Footage	Angle	
	Reading	Corrected

Grid Location 100+24N 100+19E Bearing 245° Total Depth 82' (25m)
 Date Begun May 7, 1984 Elev. Collar 4798' (1462m) Logged By D. Melrose
 Date Finished May 8, 1984 Collar Dip 55° Core Size BQ
 * () indicates metres NTS 82F/6W

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	AU oz/t			
0 8.0		Overburden to 4.0 (1.2)								
(2.4)		4.0(1.2)-8.0(2.4) ground core to put in casing								
8.0 18.0	95-100%	Limestone	65303	18.0	19.5	1.5	.092			
(2.4) (5.5)		grey to creamy white, fine grained, bedding		(5.5)	(5.9)	(.5)				
		15-25° to C.A., effervescent, minor carbonate	65304	25.0	27.5	2.5	0.171			
		staining, 1% disseminated fine grained pyrite		(7.6)	(8.4)	(.8)				
			65305	33.5	35.5	2.0	0.034			
				(10.2)	(10.8)	(.6)				
			65306	51.5	54.0	2.5	0.060			
				(15.7)	(16.5)	(.8)				
			65307	61.5	62.0	0.5	0.006			
18.0 82.0	95-100%	Silicified Chloritic Zone		(18.7)	(18.9)	(.2)				
(5.5) (25.0)		dark to light green, fine to coarse grained,	65308	12.0	18.0	6.0	0.001			
		green scratch, slightly sericitic, slight		(3.7)	(5.5)	(1.8)				
		effervescence, intense chloritization occurs	65309	19.5	25.0	5.5	0.001			
		with mineralization, minor quartz veining and		(5.9)	(7.6)	(1.7)				
		stringers	65310	27.5	33.5	6.0	0.021			
		18.0(5.5)-19.5(5.9) 30% po, 15% py, 5% cpy		(8.4)	(10.2)	(1.8)				
		25.0(7.6)-27.5(8.4) 35% po, 10% py, 5% cpy	65311	37.5	39.0	1.5	0.037			
		33.5(10.2)-35.5(10.8) 30% po, 10% py, 5% cpy		(11.4)	(11.9)	(.4)				

Dwayne Melrose

NEVIN SADLER- BROWN GOODBRAND LTD.

HOLE No. ROOT-84-5

Page 2 of 2.

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NEVIN SADLER- BROWN GOODBRAND LTD.

PROPERTY _____ ROOT _____

HOLE No. ROOT-84-6

Page 1 of 3

DIP TEST		
	Angle	
Footage	Reading	Corrected
315'	43°	

Grid Location	101+05N 99+76E	Bearing	060°	Total Depth	315' (96m)
Date Begun	May 8, 1984	Elev. Collar	4700' (1433m)	Logged By	D. Melrose
Date Finished	May 11, 1984	Collar Dip	45°	Core Size	BQ
* () indicates metres				NTS	82F/6W

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.107			
.001			

Diagram of the base

NEVIN SADLER- BROWN GOODBRAND LTD.

HOLE No. ROOT-84-6

Page 2 of 3

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NEVIN SADLER-BROWN GOODBRAND LTD.

HOLE No. ROOT-84-3

Page 3 of 3

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NEVIN SADLIER- BROWN GOODBRAND LTD.

PROPERTY _____ ROOT _____

HOLE No. ROOT-84-7Page 1 of 2

DIP TEST		
Footage	Angle	
	Reading	Corrected

Grid Location 100+00N 99+77E Bearing 050° Total Depth 117' (35.7m)
 Date Begun May 12, 1984 Elev. Collar 4760' (1451m) Logged By D. Melrose
 Date Finished May 13, 1984 Collar Dip 60° Core Size BQ
 * () indicates metres NTS 82F/6W

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au oz/t			
0 12 (3.7)		Overburden (casing to 14 ft(4.3m))								
12.0 117.0 (3.7) (35.7)		Chloritic Silicified Limestone	65320	15.0	15.5	0.5	.058			
		- creamy white to light green to dark		(4.6)	(4.7)	(.1)				
		green, fine to medium grained, depending	65321	15.5	20.0	4.5	.001			
		on degree of silicification, slightly		(4.7)	(6.1)	(1.4)				
		effervescent, minor quartz veins and	65322	32.0	35.0	3.0	.001			
		stringers.		(9.6)	(10.7)	(.9)				
			65323	64.5	69.0	4.5	.001			
		Brecciated and intense chloritization		(19.7)	(21.0)	(1.3)				
		32.5(9.9)-36.5(11.1), 55.5(16.9)-57.5(17.5),	65324	80.5	81.0	0.5	.001			
		94.0(28.7)-96.0(29.3) and 106.0(32.3)-109.5(33.4)		(24.5)	(24.7)	(.2)				
			65325	94.0	95.5	1.5	.001			
				(28.7)	(29.1)	(.4)				
		15.0(4.6)-15.5(4.7) 60% py, 10% po	65326	100.0	100.5	.5	.001			
		15.5(4.7)-20.0(6.1) 3-5% py		(30.4)	(30.6)	(.2)				
		32.0(9.6)-35.0(10.7) 1-3% py, 1% po								
		64.5(19.7)-69.0(21.0) 5% py								
		80.5(24.5)-81.0(24.7) 30% py, 5% po								
		94.0(28.7)-95.5(29.1) 5% py								

D. Melrose

NEVIN SADLER-BROWN GOODBRAND LTD.

HOLE No. ROOT-84-7

Page 2 of 2.

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APPENDIX C
Certificates of Analyses

MIN-EN Laboratories Ltd.*Specialists in Mineral Environments*

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY NEVIN SADLIER BROWN GOODBRAND
PROJECT ROOT PROJECT
ATTENTION BRIAN FAIRBANK

FILE NO 4-233
DATE MAY 8/84

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
------------------	---------------	--------------

65251	0.01	0.001
65252	0.01	0.001
65253	0.01	0.001
65254	0.01	0.001
65255	0.01	0.001

65256	0.01	0.001
65257	0.01	0.001
65258	0.43	0.013
65259	0.04	0.001
65260	0.21	0.006

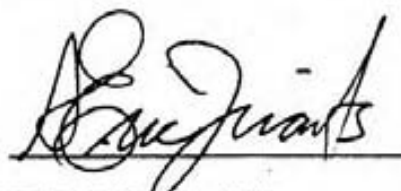
65261	0.01	0.001
65262	0.19	0.006
65263	0.01	0.001
65264	0.01	0.001
65265	0.01	0.001

65266	0.01	0.001
65267	0.01	0.001
65268	0.01	0.001
65269	0.01	0.001
65270	0.01	0.001

65271	0.01	0.001
65272	0.01	0.001
65273	0.01	0.001
65274	0.01	0.001
65275	2.26	0.066

65276	0.01	0.001
65277	0.01	0.001
65278	0.01	0.001
65279	0.01	0.001
65280	0.01	0.001

Certified by



MIN-EN LABORATORIES LTD.

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY NEVIN SADLER BROWN

FILE 4-233

PROJECT ROOT

DATE MAY 8/84

ATTENTION BRIAN FAIRBANK

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/T
65281	.01	.001

Certified by



MIN-EN LABORATORIES LTD.

MIN-EN Laboratories Ltd.*Specialists in Mineral Environments*

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAYCOMPANY NEVIN SADLIER BROWN GOODBRAND
ATTENTION MR GOODBRANDFILE 4-252
DATE MAY 14/84We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
------------------	---------------	--------------

65282	.01	0.001
65283	.01	0.001
65284	.01	0.001
65285	.01	0.001
65286	.01	0.001

65287	.01	0.001
65288	.01	0.001
65289	.01	0.001
65290	.01	0.001
65291	.01	0.001

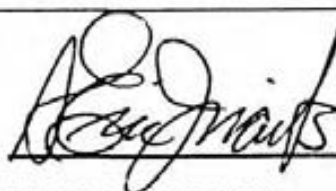
65292	.01	0.001
65293	.02	0.001
65294	.01	0.001
65295	.01	0.001
65296	.01	0.001 ✓

65297	.44	0.013
65298	.02	0.001
65299	.01	0.001 ✓
65300	.04	0.001
65301	12.45	0.363

65302	.07	0.002 ✓
65303	3.15	0.092
65304	5.85	0.171
65305	1.15	0.034
65306	2.05	0.060

65307	.21	0.006
65308	.02	0.001
65309	.04	0.001
65310	.72	0.021
65311	1.28	0.037 ✓

Certified by



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MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY NEVIN SADLIER BROWN GOODBRAND
ATTENTION MR GOODBRAND

FILE 4-283
DATE MAY 24/84

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
------------------	---------------	--------------

65312	.01	0.001
65313	.01	0.001
65314	3.66	0.107
65315	.01	0.001
65316	.01	0.001

- DDT 24-6 75'-76' (30% sulphides) calcified

65317	.01	0.001
65318	.01	0.001
65319	.01	0.001
65320	2.00	0.058
65321	.01	0.001

- DDT 24-7 15'-15.5' (70% sulphides) calcified

65322	.01	0.001
65323	.01	0.001
65324	.01	0.001
65325	.01	0.001
65326	.01	0.001

Certified by



MIN-EN LABORATORIES LTD.

MIN-EN Laboratories Ltd.*Specialists in Mineral Environments*

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY NEVIN SADLER BROWN GOODBRAND
PROJECT ROOT PROJECT (84-2)
ATTENTION BRIAN FAIRBANK

FILE NO 4-233
DATE MAY 8/84

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
------------------	---------------	--------------

150-155	0.01	0.001
155-164	0.01	0.001
166-170	0.01	0.001
178-186	0.01	0.001
186-196	0.01	0.001

196-206	0.01	0.001
206-216	0.01	0.001
216-226	0.01	0.001
226-236	0.44	0.013
236-246	0.01	0.001

246-256	0.01	0.001
---------	------	-------

Certified by



MIN-EN LABORATORIES LTD.

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
65251	1.7	23100	33	38	11	18100	3.3	25	93	60900	9770	17800
65252	3.9	26100	25	31	20	14300	3.4	36	283	86900	16600	17200
65253	1.5	34800	24	37	14	7120	2.6	21	55	58700	14300	15800
65254	.9	25400	31	35	5	14100	2.4	15	63	46600	4450	13200
65255	2.5	14600	62	22	11	68500	13.8	14	270	65100	2010	11400
65256	0	3350	7	23	4	71200	.9	3	29	13800	448	1880
65257	1.2	7430	26	21	13	85600	9.0	10	536	54700	361	4850
65258	2.6	17400	25	28	21	34900	8.9	26	648	92200	2900	11200
65259	.2	3040	8	14	7	89600	2.9	6	26	16900	400	1140
65260	1.0	5970	241	19	11	42900	7.7	15	173	45200	664	3220
65261	.7	4900	2	21	7	57500	1.8	7	147	31500	658	2270
65262	2.0	12100	0	26	17	5000	2.5	12	539	77600	3710	6220
65263	2.9	17500	0	37	23	13100	6.5	13	993	83600	2270	8250
65264	1.6	18300	0	22	10	12300	2.5	10	108	57100	6120	8840
65265	1.5	31800	0	32	11	7130	2.7	14	62	84500	9310	14500
65266	1.6	13800	2	29	15	51500	3.3	25	474	91800	4110	6060
65267	.9	4000	9	16	4	34700	1.3	6	95	22500	218	2490
65268	1.1	24400	19	31	9	10400	1.8	9	36	31300	5090	6020
65269	1.3	18600	10	39	9	6430	9.6	10	41	31700	5760	6290
65270	1.1	15900	18	25	8	4780	15.7	10	38	32900	5630	6820
65271	1.2	17600	23	27	8	10500	3.8	10	46	31100	5390	5760
65272	.9	19800	77	26	8	11000	2.5	8	43	28400	4270	5490
65273	1.1	18100	50	27	8	6360	7.8	11	39	32100	6410	7710
65274	1.4	19200	38	25	9	10100	2.0	10	59	31300	6230	6930
65275	2.9	21600	2410	31	21	9300	86.0	15	852	66300	4800	7790
65276	1.4	16500	22	31	8	4550	6.8	12	62	36500	5900	7110
65277	1.0	17000	15	26	7	6390	3.4	10	64	31600	5850	6150
65278	1.3	23000	11	23	10	10400	1.4	10	81	38600	5880	8920
65279	1.4	20000	7	28	9	16600	1.4	14	66	39300	3810	14900
65280	1.3	17300	0	26	10	8920	3.4	13	81	63400	7960	7630
65281	1.3	26600	1	24	11	8890	2.5	11	29	69200	5870	11100

PROJECT No: ROOT PROJECT

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE No: 4-233A/P1+2

ATTENTION: B. FAIRBANK

(604)980-5814 OR (604)988-4524

DATE: MAY 8, 1984

(REPORT VALUES IN PPM)	NH	NO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
65251	753	3	1010	18	1360	50	22	67	0	14	141.0	117
65252	1380	2	1630	30	690	61	20	52	0	10	182.0	219
65253	784	3	1880	37	764	35	29	45	0	13	153.0	60
65254	537	3	451	36	673	42	26	73	0	20	85.2	47
65255	707	3	393	25	328	153	18	124	0	0	87.7	985
65256	644	1	365	8	192	15	3	41	6	0	23.3	20
65257	998	4	139	19	267	40	15	59	9	0	29.8	557
65258	1270	7	479	29	344	57	24	38	1	16	48.3	434
65259	586	1	283	17	293	93	6	39	10	0	29.0	234
65260	467	5	230	21	334	42	13	26	6	0	34.3	62
65261	1170	3	173	16	319	43	11	9	7	0	26.4	63
65262	451	4	417	26	390	44	17	20	2	13	43.3	64
65263	778	12	218	27	467	171	48	36	0	20	57.1	595
65264	1150	4	556	23	402	43	19	41	0	13	81.4	162
65265	1230	5	874	30	438	49	28	50	0	16	97.3	78
65266	1280	9	557	46	484	78	29	16	10	0	80.2	38
65267	551	4	121	14	222	21	8	16	3	5	10.4	28
65268	416	10	1400	45	370	23	19	69	0	19	320.0	92
65269	269	12	1360	59	735	26	17	46	0	16	255.0	661
65270	241	10	613	55	695	27	14	47	0	13	281.0	728
65271	364	13	1110	50	405	37	17	55	0	17	263.0	177
65272	373	10	1160	44	527	25	18	60	0	15	284.0	58
65273	242	11	924	56	452	24	16	36	0	12	276.0	420
65274	249	12	1620	47	391	28	16	72	0	16	477.0	59
65275	278	12	1990	57	381	42	26	59	0	22	373.0	2320
65276	204	12	812	57	403	26	15	41	0	14	292.0	392
65277	207	9	523	53	911	22	15	35	0	13	290.0	164
65278	585	6	1240	48	1120	23	18	58	0	11	318.0	49
65279	518	4	616	86	1620	37	16	88	0	14	221.0	39
65280	860	8	646	25	451	37	19	22	0	11	76.4	106
65281	1030	7	616	38	580	41	27	37	0	19	172.0	63

PROJECT No: ROOT PROJECT

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE No: 4-233A/P1+2

ATTENTION: B. FAIRBANK

(604)980-5814 OR (604)988-4524

DATE: MAY 8, 1984

(REPORT VALUES IN PPM)	BA	SE
65251	448	0
65252	240	0
65253	492	0
65254	173	12
65255	64	0
65256	24	0
65257	43	0
65258	101	0
65259	30	0
65260	30	0
65261	52	0
65262	158	0
65263	91	0
65264	239	0
65265	377	0
65266	212	0
65267	10	0
65268	270	0
65269	334	5
65270	297	5
65271	302	5
65272	209	2
65273	265	4
65274	178	2
65275	183	2
65276	260	4
65277	320	6
65278	359	0
65279	216	0
65280	598	0
65281	312	3

APPENDIX DItemized Cost StatementLabour

D. Melrose, 48.8 days @ \$256.56/day	\$ 12,520.12
K. Syrja, 4 days @ \$163.00/day	652.00
B. Fairbank, 16 hours @ \$59.00/hr	944.00
L. Samayloff, 2 days @ \$140.00/day	280.00
D. Goodbrand, 17 hours @ \$68.00/hr	<u>1,156.00</u>
Sub-total	<u>\$ 15,552.12</u>

Disbursements

Bergeron Drilling Ltd.	\$ 29,054.60
KVT buggy rental, 10 days @ \$25.00/day	250.00
Tom Cherry (dump truck) 17 hours @ \$45.00/hr	765.00
Dave Weinrauch (dump truck) 16 hours @ \$45.00/hr	720.00
Hlookoff Bulldozing Ltd. (hauling excavator) 1 1/2 hr @ \$94.00/hr	141.00
Telk Logging (skidder and backhoe) 8 hrs @ \$40.00/hr	320.00
Vehicle Rental (includes mileage) 1 truck full-time, 1 truck part-time, 48 days @ \$48.30/day	2,318.40
Travel, meals, accommodation 52.9 man-days @ \$94.85/day	5,017.57
B.C. Telephone Company	428.78
Core splitter and rental @ \$150.00/month	187.50
Field Supplies	231.81
Assays	1,396.25
Drafting and reporting	<u>2,923.36</u>
Sub-total	<u>\$ 43,754.27</u>
GRAND TOTAL	<u>\$ 59,306.39</u>