ARCHER, CATHRO
& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

1016 - 510 WEST HASTINGS STREET, VANCOUVER, B.C. V6B 1L8 TEL (604) 688-2568 • FAX (604) 688-2578

REPORT

describing

PROSPECTING AND HAND TRENCHING

on the

NORTHERN DANCER CLAIM

ATLIN MINING DIVISION
BRITISH COLUMBIA

NTS 104O/13E

Latitude 59°59'50"N; Longitude 131°37'00"W

W.A. Wengzynowski, P.Eng.
May, 1999

BOX 4127, 2054 SECOND AVENUE, WHITEHORSE, Y.T. Y1A 3S9 TEL (867) 667-4415

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INTRODUCTION

The Northern Dancer property is owned 100% by Nordac Resources Ltd. It straddles the British Columbia-Yukon border and consists of the nine unit Northern Dancer claim in B.C. plus six adjoining mineral claims in Yukon. This report describes work conducted in 1998 on the B.C. claim.

The Northern Dancer claim was staked in late June 1998 and covers mineralized veins peripheral to the Logtung Deposit which lies about 300 m north of the border. The Logtung Deposit contains porphyry-type tungsten-molybdenum mineralization while the veins on the Northern Dancer claim are comprised of quartz with wolframite, scheelite, beryl and other minerals.

The 1998 program included prospecting and hand trenching to establish distribution and geological controls of the veins. The work principally focussed on beryl as a potential source of beryllium, either as a by-product of the porphyry deposit or as a small scale, stand-alone target. The author conducted most of the work and supervised the remainder. The Author's Statement of Qualifications appears in Appendix I while the Cost Statement is Appendix II.

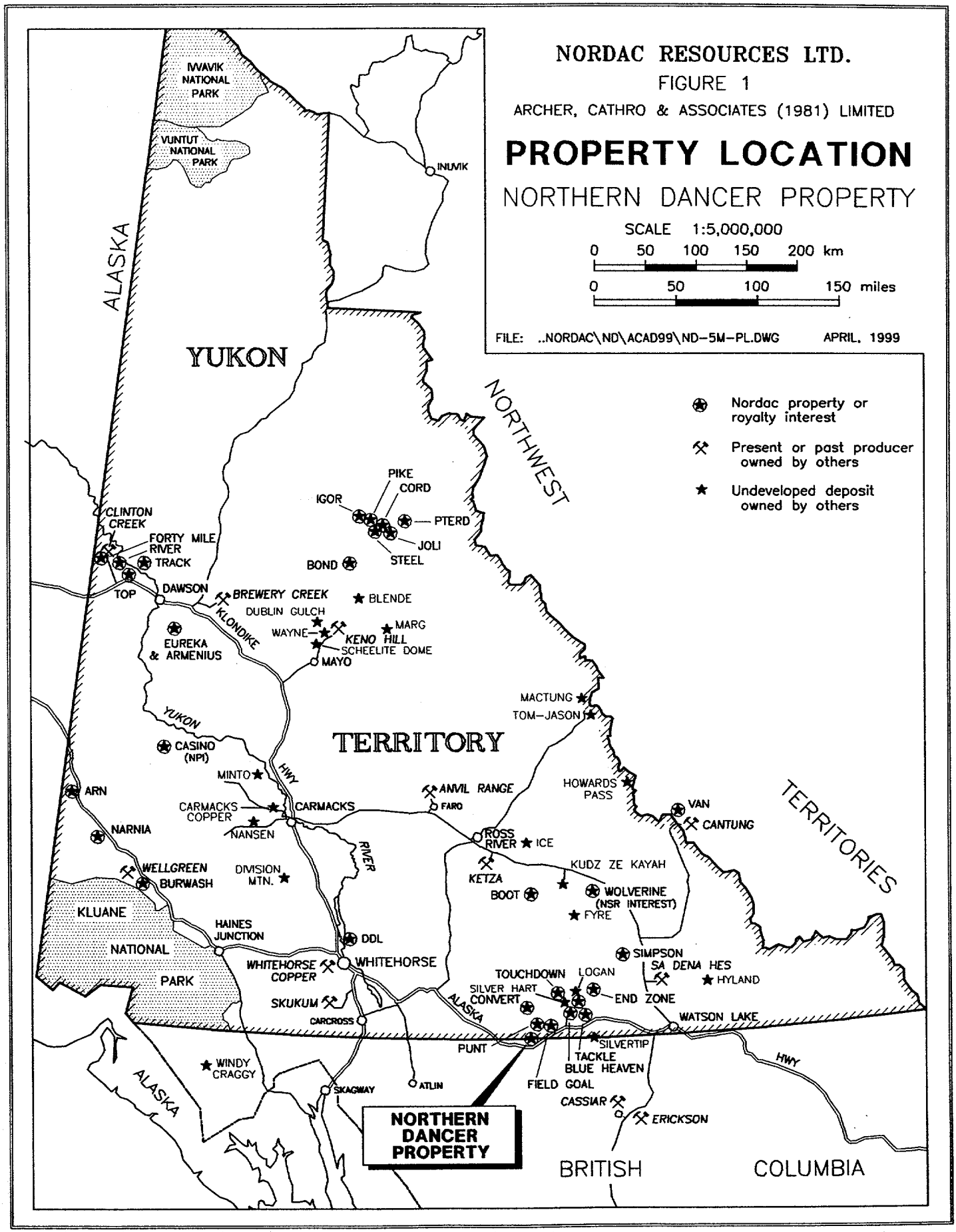
PROPERTY, LOCATION AND ACCESS

The Northern Dancer claim consists of nine units located in the Atlin Mining Division on NTS mapsheet 104O/13E. It is centred at latitude 59°59'50"N and longitude 131°37'00"W (Figure 1). The northern edge of the claim follows the B.C.-Yukon border. Claim data are listed below.

Claim Name	Record Number	Expiry Date*
Northern Dancer 1 (9 units)	363828	June 30, 2009

*Includes assessment work done in 1998 which has been filed but not yet accepted.

Access is provided by a 14 km gravel road that extends from KM 1303 on the Alaska Highway to the property. Although the road has not been maintained since the early 1980's, it is easily passable with a four-wheel drive vehicle during summer and fall.


NORDAC RESOURCES LTD.
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY LOCATION
NORTHERN DANCER PROPERTY
SCALE 1:5,000,000
0 50 100 150 200 km
0 50 100 150 miles
FILE: ..NORDAC\ND\ACAD99\ND-5M-PL.DWG APRIL, 1999
Nordac property or royalty interest
Present or past producer owned by others
Undeveloped deposit owned by others
IVAVIK NATIONAL PARK
VUNTUT NATIONAL PARK
INUVIK
ALASKA
YUKON
NORTHWEST
TERRITORY
TERRITORIES
PIKE
CORD
IGOR
PTERD
JOLI
STEEL
BOND
CLINTON CREEK
FORTY MILE
RIVER
TRACK
TOP
DAWSON
BREWERY CREEK
BLENDE
DUBLIN GULCH
KLONDIKE
WAYNE
KENO HILL
MARG
SCHEELITE DOME
EUREKA & ARMENIUS
MAYO
MACTUNG
TOM-JASON
YUKON
CASINO (NPI)
MINTO
HWY
ARN
CARMACKS COPPER
CARMACKS
ANVIL RANGE
FARO
HOWARDS PASS
VAN
CANTUNG
NARNIA
NANSEN
RIVER
ROSS RIVER
ICE
KUDZ ZE KAYAH
WELLGREEN
BURWASH
DIVISION MTN.
KETZA
BOOT
WOLVERINE (NSR INTEREST)
FYRE
KLUANE
HAINES JUNCTION
NATIONAL
PARK
DDL
WHITEHORSE
WHITEHORSE COPPER
SIMPSON
SA DENA HES
HYLAND
TOUCHDOWN
LOGAN
SILVER HART
CONVERT
END ZONE
SKUKUM
CARCROSS
ALASKA
WATSON LAKE
PUNT
SILVERTIP
TACKLE
BLUE HEAVEN
FIELD GOAL
CASSIAR
ERICKSON
HWY
WINDY CRAGGY
ALASKA
SKAGWAY
ATLIN
NORTHERN DANCER PROPERTY
BRITISH
COLUMBIA

PREVIOUS WORK

In 1975 the Bath Uranium Partnership discovered tungsten stream sediment anomalies in Logjam Creek but it was not until the following year that the anomalies were traced to their source and a large claim block was staked straddling the B.C.-Yukon border. After preliminary prospecting, ownership of the claims was transferred to Logjam Resources Ltd. which immediately optioned them to Amax Potash Limited. Between 1977 and 1981 Amax built a road to the property and explored with geological mapping, soil geochemistry, IP surveys, 47 diamond drill holes totalling 11,157 m and 496 m of underground workings. The surface work was done on both sides of the border but only 474 m of diamond drilling (4 holes) was on B.C. claims. Most of the work focussed on an area about 300 m north of the border where the Logtung Deposit was outlined. In 1984 airborne magnetic and electromagnetic surveys were conducted but a preliminary feasibility study completed later that year concluded the deposit was uneconomic. Amax dropped its option in 1986.

In 1993 NDU Resources Ltd. staked the Lad 1 and 2 claims in an area now largely covered by the Northern Dancer claim and explored them as a possible bulk tonnage gold target modelled on the Fort Knox Deposit in Alaska (Eaton, 1994). The program consisted of soil geochemical surveys and prospecting done in conjunction with work that NDU Resources did on the Yukon side of the border on claims it held under option. Soil sampling outlined large areas of moderately to strongly anomalous tungsten, bismuth and gold values but prospecting and rock analyses returned disappointing results and the property was allowed to expire without additional work being done.

GEOMORPHOLOGY

The claim covers the headwaters of two creeks, one draining west into the Smart River and the other (Logtung Creek) southeast into the Swift River. Local elevations range from 1350 to 1750 m above sea level. The area has undergone recent alpine and valley glaciation and is typified by steep ridges separating broad U-shaped valleys blanketed by glacial debris. Outcrop is most abundant along ridge crests and on north or west facing slopes. South and east facing slopes are usually covered by talus. Most of the property is above treeline which is at 1450 m.

GEOLOGY

Regional and property geology are well described in Noble et al (1986) plus a number of company reports, notably Harris (1978 and 1979). No attempt was made to remap the property in 1998 and the following is a brief summary of the earlier descriptions.

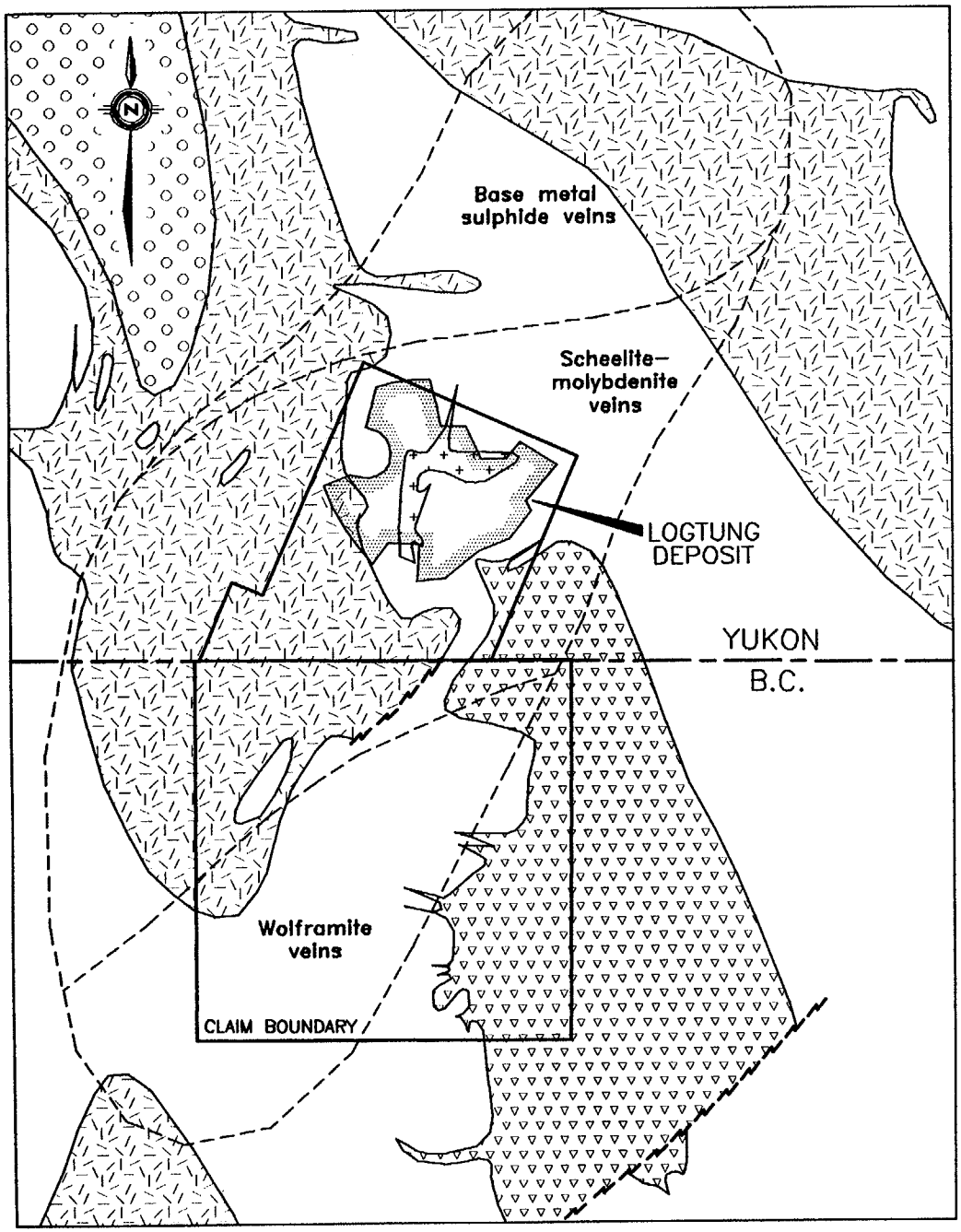
The property lies south of the Tintina Fault within the Yukon-Tanana Terrane. Country rocks consist of Paleozoic fine grained clastic and carbonate sedimentary rocks that were accreted to North America during a Mesozoic arc-continent collision. The sediments are intruded by two Mesozoic intrusive suites. The older suite is Jurassic to Triassic age and includes stocks and dykes ranging from ultramafic to granodiorite in composition. The younger intrusions are Cretaceous in age, quartz monzonite to monzogranite in composition and range from batholiths (Cassiar, Seagull and Hake) through to narrow hypabyssal dykes.

Figure 2 on the following page illustrates geology in the main areas of interest on the Yukon and B.C. claims. Sedimentary rocks on the property are Carboniferous age and consist of isoclinally folded graphitic quartzites with calcareous shale interbeds. The strata generally exhibit shallow to moderate dips. The sedimentary rocks are intruded by two Triassic diorite stocks flanked by numerous satellite dykes and a Cretaceous monzogranite stock accompanied by swarms of pegmatic dykes and sills plus a slightly younger but apparently comagenetic felsic dyke complex. Both ages of intrusions produced extensive hornfels halos and localized skarn horizons.

SOIL GEOCHEMISTRY

Figure 3 shows the location of four soil samples collected during prospecting traverses. The samples were sent to Chemex Labs Ltd. in North Vancouver where they were dried, screened to -80 mesh and then geochemically analyzed for 32 elements using the induced coupled plasma (ICP) technique. Beryllium and tungsten values obtained by ICP analysis are usually understated because the common minerals containing these metals are only partially digested by the acids used during sample preparation. Three of the samples were also analyzed for beryllium and tungsten using complete digestion. Certificates of Analyses appear in Appendix III.

Two of the soil samples (N34756 and N34757) were taken along the upper edge of the float train containing the highest concentration of beryl mineralization. Both are moderately anomalous for beryllium and tungsten. A third sample (N34755) was collected immediately downhill from a linear depression containing quartz-beryl vein float. It is strongly anomalous for beryllium and moderately anomalous for tungsten. Comparison of partial digestion to complete digestion results from the three samples showed that beryllium increased by a factor of about three but that tungsten was relatively unchanged. All three samples are also moderately anomalous for bismuth and weakly anomalous for molybdenum and copper. The fourth sample was taken in an area where no mineralization was known and returned low values for all metals.



Felsic dyke complex

Monzogranite

Granodiorite

Diorite

Sedimentary rocks

Limit of mineralization

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FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY

NORTHERN DANCER PROPERTY

SCALE 1:25,000

0 500 1000 1500m

DRAWN\REVISED BY: AG	PROJECT:
FILE: ..NORDAC\ND\ACAD99\ND-25K-G.DWG	DATE: APRIL, 1999

MINERALIZATION

Previous work in the vicinity of the claim has outlined an extensive, multi-episode vein system that is enriched in several metals, most notably tungsten and molybdenum. The system is centred on the felsic dyke complex and forms a 3 by 1 km kidney-shaped zone that is elongated along an north-northeasterly axis (Figure 2). Approximately 95% of the mineralization within the system occurs in veins and fractures with the remainder found as disseminations within the felsic dyke complex and skarn horizons. The veins crosscut all units and are apparently related to emplacement of the felsic dyke complex. Table 1 below summarizes mineralization in the main vein sets.

TABLE 1
SUMMARY OF VEIN MINERALOGY (from Noble et al, 1986)

Vein Type	Essential Minerals	Accessory Minerals
Quartz-Molybdoscheelite	quartz, garnet, diopside, molybdoscheelite, pyrite	epidote, chlorite, fluorite, calcite, biotite, molybdenite, plagioclase, orthoclase
Quartz-Pyrite-Scheelite	quartz, fluorite, epidote, scheelite, chlorite, molybdoscheelite	plagioclase, calcite, garnet, diopside, hornblende, biotite, orthoclase, sphalerite, molybdenite, chalcopyrite
Quartz-Molybdenite	quartz, epidote, calcite, diopside, molybdenite, pyrite, chalcopyrite	muscovite, chlorite, scheelite, garnet, sphalerite, plagioclase, pyrrhotite, rutile
Sheeted Veins		
(A) Scheelite-Molybdenite (central region)	quartz, beryl, scheelite, orthoclase, fluorite, plagioclase, calcite, pyrite, molybdenite	biotite, chlorite, muscovite, epidote, helvite, sphalerite, bismuthinite, marcasite, pyrrhotite, galena
(B) Pb-Zn-Ag (northeast)	quartz, calcite, arseno-pyrite, galena, sphalerite, pyrrhotite, chalcopyrite	chlorite, stannite, galenobismutite, pyrite, lollingite
(C) Quartz-Wolframite (southwest)	quartz, fluorite, beryl, wolframite	calcite, scheelite, bismuthinite

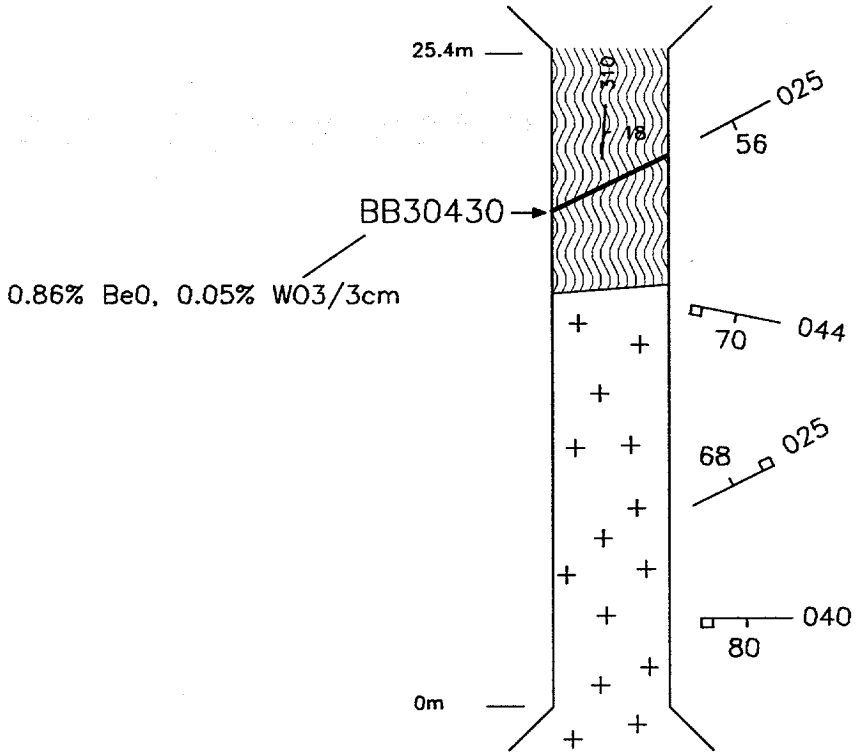
Published reports provide excellent descriptions of the distribution, density and orientation of the various vein sets and their relationship to different rock types.

A number of rock samples were collected during the prospecting and hand trenching program. They were sent to Chemex Labs where they were routinely analyzed for 32 elements by the ICP technique. Selected sample splits were also geochemically analyzed or assayed for specific elements including BeO, WO_3, tungsten, beryllium, gold, lithium, rare earth elements and whole rock analysis. Sample sites are shown on Figure 3 while Certificates of Analysis appear in Appendix III. Rock sample descriptions are in Appendix IV. Although some assays were reported as beryllium on the assay certificates, all have been converted to BeO where referred to in text or plotted on maps.

In 1998 prospecting focused on the portion of the vein system where wolframite is the dominant tungsten mineral (Sheeted Veins - Type C on Table 1). Four areas of quartz-beryllium-wolframite-scheelite vein float have been identified on the claim (Figure 3).

The largest, highest grade area (Area A) is in the eastern third of the claim. Scattered mineralized float has been found over a length of about 1000 m, with the highest concentrations occurring on talus slopes and the lowest densities in areas where the hillside is covered by a thin layer of soil plus grass and buckbrush. The float appears to be derived from a series of sheeted veins striking about 030° and dipping vertically or steeply to the west. Subcrop and outcrop mineralization has been discovered at three sites where the vein trends cross a ridge crest in the southeast corner of the claim and in three of five hand trenches dug near the top of a major float train (the other two trenches failed to reach bedrock). The largest quartz vein in the area (sample site 59642) is up to 80 cm thick and is part of a swarm of veins comprising about 15% of the rock over a width of 20 m. The veins consist of massive white quartz with traces of beryl. Well mineralized veins range between 1 and 30 cm in thickness, based on exposures and the dimensions of float fragments. Typically, they contain white quartz with 1 to 50% pale blue cloudy beryl, trace to 15% wolframite, trace to 5% scheelite (usually intergrown with or fringing wolframite), trace to 3% muscovite, trace to 10% pale purple fluorite and trace to 0.5% bismuthinite. The beryl is normally euhedral and is between 0.5 and 4 cm long and 0.2 and 0.8 cm in diameter. It is often concentrated along vein selvages. Transparent beryl crystals up to 2 cm long and 0.6 mm in diameter have been observed in vugs along with transparent, clear or smoky euhedral quartz crystals. Specimens of mineralized vein have assayed up to 7.85% BeO and 16.30% WO_3. The best chip samples from veins exposed in hand trenching returned 4.88% BeO and 1.15% WO_3 across 8 cm. Figures 4 to 6 show geology in the hand trenches. Only a small area has been tested by hand trenching. Therefore, the extent of the mineralized quartz veins and their average density has not yet been determined. They seem to be more abundant in metasedimentary rocks directly adjacent to the monzogranite stock.

TR-98-A



Quartz vein

Monzogranite

Metasediment

040 / 80 Fracture orientation

025 / 56 Bedding orientation

EXPATRIATE RESOURCES LTD.	
FIGURE 4 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED **TR-98-A** **NORTHERN DANCER PROPERTY**	
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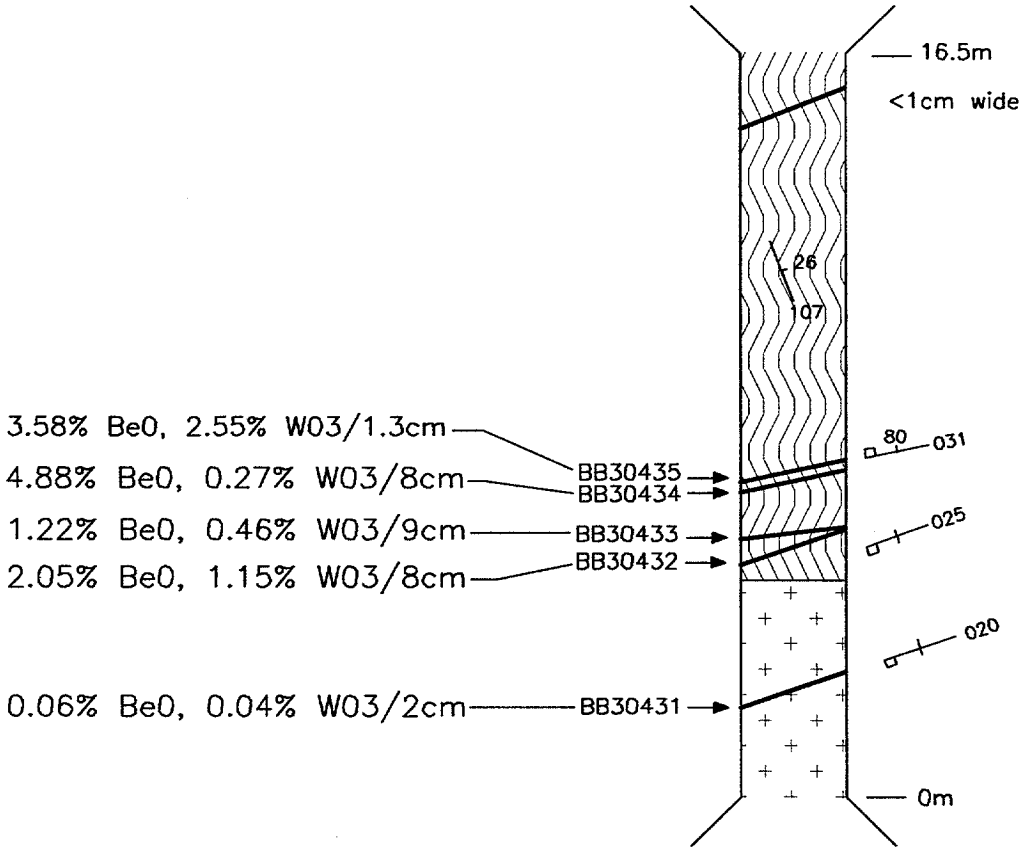
..\NORDAC\ND\ACAD99\ND-TR98A.DWG	DATE: MAY, 1999

TR-98-B



Quartz vein

Monzogranite

Metasediment

031 / 80 Fracture orientation

025 / 56 Bedding orientation

EXPATRIATE RESOURCES LTD.

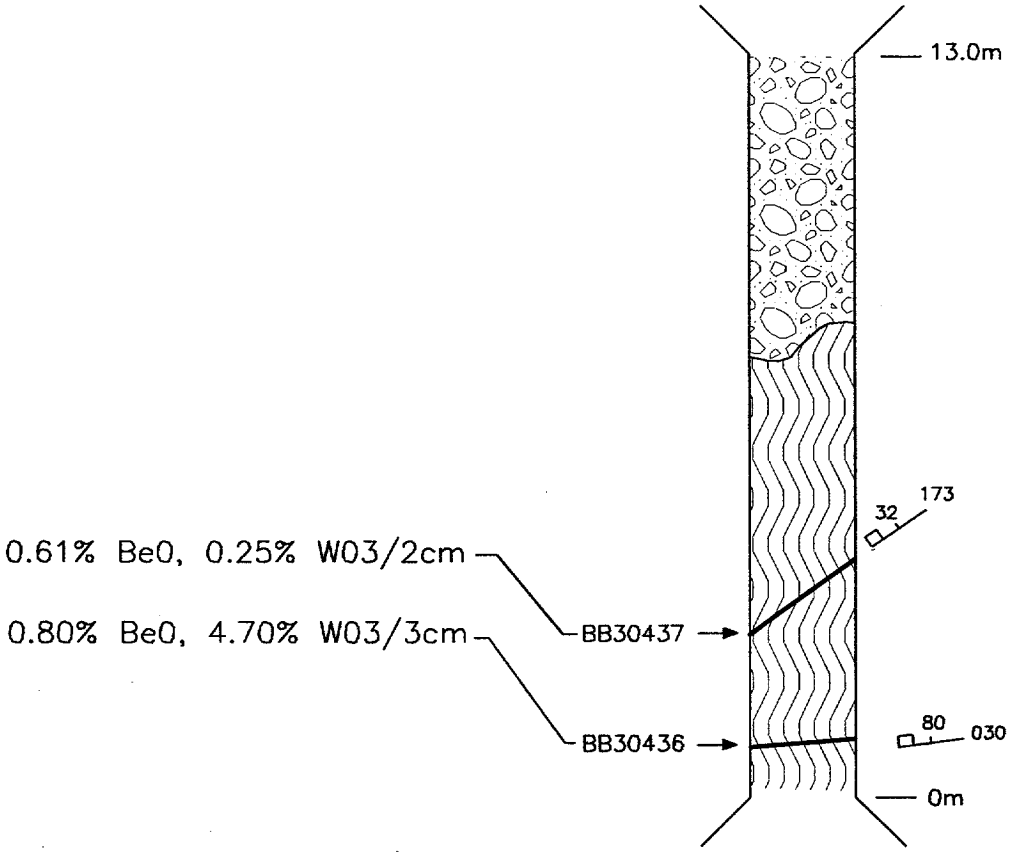
FIGURE 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR-98-B

NORTHERN DANCER PROPERTY

DRAWN\REVISED BY: WAW	PROJECT:
...\NORDAC\ND\ACAD99\ND-TR98B.DWG	DATE: MAY. 1999

TR-98-C



Quartz vein

Overburden

Monzogranite

Metasediment

173 / 32 Fracture orientation

025 / 56 Bedding orientation

EXPATRIATE RESOURCES LTD.

FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR-98-C

NORTHERN DANCER PROPERTY

DRAWN\REVISED BY: WAW	PROJECT:
...\NORDAC\ND\ACAD99\ND-TR98C.DWG	DATE: MAY, 1999

Feldspar rich pegmatite dykes and sills occur with the quartz veins in some parts of Area A. Most of these intrusions are less than 50 cm thick and contain only minor beryl. Some dykes near sample site 59633 contain up to 40% purple fluorite while scattered pegmatic float immediately north of the hand trenches contain up to 50% beryl.

Area B is located on a largely till and talus covered cirque floor. Blue beryl, wolframite, scheelite, bismuthinite and molybdenite occur in up to 10 cm thick quartz vein fragments that were found in till and a series of scattered subcrops within a 150 m long zone that trends northerly across the border. The veins are hosted by hornfelsed metasedimentary rocks immediately east of a diorite intrusion. Samples collected on the Yukon side of the border assayed up to 1.47% Be0, 4.60% WO_3, 0.23% bismuth and 0.91% $M0S_2$. No samples were taken on the B.C. side of the border.

Area C also straddles the border. It consists of mineralized talus apparently derived from one or more quartz veins cutting diorite. A vein outcrops at sample site 4979 where it strikes 040° and dips 60° west. Quartz boulders in this zone range up to 30 cm in diameter. Most contain bismuthinite and many contain minor milky white, pale blue or pale green beryl. A soil sample of gossanous talus fines was collected immediately north of the border and returned 1260 ppm bismuth, 13.4 ppm silver, 515 ppm molybdenum, 340 ppm beryllium and greater than 2370 ppm tungsten. The southern projection of this vein trend projects into B.C. where preliminary prospecting was frustrated by thick talus cover.

Area D is in the southwest corner of the claim and consists of three mineralized float locales. The largest showing is composed of wolframite and scheelite rich quartz talus apparently derived from a 20 cm thick vein which is exposed in a 3 by 1.5 m outcrop. The vein strikes 040° and dips 55° to the southwest. A specimen (59634) from the outcrop assayed 4.30% WO_3. Similar material was collected from a second talus train about 150 m along strike to the northeast. A specimen from this locale (59632) returned 4.40% WO_3. The third mineralized locale is an 8 cm wide vein that outcrops along a ridge crest. This vein strikes 160° and dips vertically, approximately perpendicular to the main vein trend. It consists of white quartz with minor green fluorite, white to pale green beryl and scheelite. A specimen from this vein (59635) assayed 4.60% WO_3.

Thirty-three samples were also taken from old drill core stored on the property. The samples consisted of quartered core from a 1977 drill hole (77-3). Another quarter of this core had previously been geochemically analyzed by the ICP technique and had returned high beryllium values compared to other ICP results from the property. All 33 samples were hornfelsed or skarnified metasediments. The samples were assayed for beryllium and returned uniformly low values suggesting that beryllium bearing minerals in the altered metasediments are likely more easily digested than the beryl in the quartz veins.

CONCLUSIONS

The Northern Dancer claim hosts beryllium and tungsten rich veins whose potential is substantially enhanced by their proximity to an established tungsten-molybdenum deposit. Little trenching or drilling has been done outside of the deposit; thus, it is possible that the open pit outline could be modified to include a large tonnage of beryllium-tungsten mineralization. The colour contrast between the well mineralized quartz veins and the surrounding wallrocks suggest that photometric sorting may be a viable technique for pre-concentration of the beryllium-tungsten veins. There is also a potential for smaller scale production from the relatively high grade veins. The economics of either type of operation would be greatly enhanced by the coarse grain size of the mineralization and high values of beryl, wolframite and scheelite concentrates.

In order to evaluate vein potential, future work must reliably determine their average density and grade. The most effective exploration techniques for the next phase of exploration would be continued hand trenching on steep slopes coupled with excavator trenching in flatter, till covered areas. Large diameter diamond drill holes will be required if trenching results are favourable.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

B. Wengzynowski

W.A. Wengzynowski, P.Eng.

REFERENCES

Eaton, W.D.
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1979 1978 Property Report, Logtung Property, unpublished company report for Amax Potash Limited, p.28.

Noble, S.R., Spooner, E.T.C. and Harris, F.R.
1986 Logtung: A porphyry W-Mo deposit in southern Yukon, in CIM Special Vol. 37, pp.274-287.

APPENDIX I

AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, William A. Wengzynowski, geological engineer, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 1993 with a B.A.Sc. in geological engineering, option 1, mineral and fuel exploration.
2. I became a Professional Engineer on December 12, 1998 registered in the Province of British Columbia.
3. From 1983 to present, I have been actively engaged in mineral exploration in the Yukon Territory and am presently employed with Archer, Cathro & Associates (1981) Limited.
4. I have personally participated in and supervised the field work reported herein.

B. Wengzynowski

W.A. Wengzynowski, P.Eng.

APPENDIX II

COST STATEMENT

Statement of Expenditures
Northern Dancer - 1 Mineral Claim
February 22, 1999

Labour

A. Archer - geologist - July to October - 17 hrs @ $66/hr	$ 1,200.54
D. Eaton - geologist July - 18 hrs, Aug. - 20 hrs, Sept. - 38 hrs, Oct. - 5 hrs, Nov. - 2 hrs - 83 hrs @ $56/hr	4,973.36
B. Wengzynowski - geologist - Sept. - 28 hrs, Oct.- 63 hrs. - 91 hrs @ $43/hr	4,186.91
B. Gay - geologist - Aug. - 2 days @ $240/day	513.60
I. Weatherston - field assistant - Sept. - 2 days, Oct. - 4 days - 6 days @ $172.50/day	1,107.45
	$11,981.86

Expenses

Field room and board - 22 days @ $115/day	2,707.10
Norcan Leasing - truck rental and gas	1,201.58
Chemex Labs	1,233.15
Drafting and printing	507.61
Trucking and airfreight	71.37
	$ 5,720.81
Total	$17,702.67

APPENDIX III
ANALYTICAL CERTIFICATES

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: NORDAC RESOURCES LTD.
C/O ARCHER, CATHRO
BOX 4127, 2054 SECOND AVE.
WHITEHORSE, YT
Y1A 3S9

Project : LOGTUNG-B.C.
Comments:

Page Number : 1-A
Total Pages : 1
Certificate Date: 23-OCT-1998
Invoice No. : I9833639
P.O. Number :
Account : MTT

CERTIFICATE OF ANALYSIS A9833639

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
BB30430	205	226	< 0.2	0.26	< 2	40	19.5	76	0.56	< 0.5	1	300	9	0.51	< 10	< 1	0.08	< 10	0.06	190	5
BB30431	205	226	< 0.2	0.42	< 2	70	1.5	72	0.77	< 0.5	< 1	162	4	0.28	< 10	< 1	0.32	< 10	0.04	185	25
BB30432	205	226	1.6	0.29	12	110	22.0	292	0.69	1.5	1	224	15	0.93	< 10	< 1	0.12	< 10	0.07	2240	66
BB30433	205	226	< 0.2	0.42	2	60	20.5	400	1.04	1.0	1	172	10	0.67	< 10	< 1	0.18	< 10	0.12	835	122
BB30434	205	226	< 0.2	1.32	10	270	40.5	30	2.25	2.0	1	205	23	0.67	< 10	< 1	0.86	< 10	0.16	880	12
BB30435	205	226	< 0.2	0.95	4	110	37.5	494	1.84	2.0	1	183	13	0.90	< 10	< 1	0.44	< 10	0.22	2510	39
BB30436	205	226	< 0.2	0.56	2	170	21.0	126	1.53	0.5	1	280	9	0.86	< 10	< 1	0.47	< 10	0.07	4290	42
BB30437	205	226	< 0.2	0.54	2	130	17.0	518	1.21	1.0	1	245	12	0.55	< 10	< 1	0.24	< 10	0.13	475	26

CERTIFICATION: Ian Fichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Project : LOGTUNG-B.C.
Comments:

Page Number : 1-B
Total Pages : 1
Certificate Date: 23-OCT-1998
Invoice No. : I9833639
P.O. Number :
Account : MTT

CERTIFICATE OF ANALYSIS A9833639

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Be %	WO3 %
BB30430	205	226	0.03	8	40	4	< 2	1	19	< 0.01	< 10	< 10	7	210	26	0.31	0.05
BB30431	205	226	0.04	5	50	12	< 2	1	11	< 0.01	< 10	< 10	3	220	12	0.02	0.04
BB30432	205	226	0.02	10	50	32	6	12	68	< 0.01	< 10	< 10	8	530	44	0.74	1.15
BB30433	205	226	0.05	7	40	10	2	5	29	< 0.01	< 10	< 10	8	1120	40	0.44	0.46
BB30434	205	226	0.08	13	40	6	< 2	7	39	0.01	< 10	30	12	930	50	1.76	0.27
BB30435	205	226	0.07	8	60	30	2	24	49	< 0.01	< 10	< 10	13	750	64	1.29	2.55
BB30436	205	226	0.04	7	30	10	< 2	25	74	< 0.01	< 10	10	4	280	36	0.29	4.70
BB30437	205	226	0.10	10	150	12	2	3	47	0.01	< 10	< 10	12	1190	52	0.22	0.25

CERTIFICATION: Ian Fichler

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Y1A 3S9

Project : LOGTUNG-BC
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P.O. Number :
Account : MTT

CERTIFICATE OF ANALYSIS A9832886

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
N34755	205	203	1.0	2.66	22	200	42.0	52	2.32	23.0	17	102	186	3.83	< 10	< 1	0.34	30	1.31	1875	11
N34756	205	203	0.2	1.71	20	130	12.0	78	1.66	5.5	17	101	96	2.89	< 10	< 1	0.12	10	0.63	940	11
N34757	205	203	< 0.2	1.80	26	120	12.0	96	0.86	5.5	16	119	60	2.69	< 10	< 1	0.09	10	0.46	1140	16

CERTIFICATION: Hartfichler

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CERTIFICATE OF ANALYSIS A9832886

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Be ppm	W ppm
N34755	205	203	0.01	77	1220	22	< 2	9	148	0.10	< 10	< 10	154	270	1555	140.0	390
N34756	205	203	0.03	63	960	18	< 2	5	90	0.11	< 10	< 10	72	380	496	39.0	340
N34757	205	203	0.02	48	1240	22	< 2	3	62	0.08	< 10	< 10	69	270	370	36.0	290

CERTIFICATION: Ian Fichler

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Invoice No. : I9832494
P.O. Number :
Account : MTT

CERTIFICATE OF ANALYSIS A9832494

SAMPLE	PREP CODE		Be %									
59641M	244	--	0.52									

CERTIFICATION: David Chung

RERUNS from A9831096

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Project : LOGTUNG-BC
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Account : MTT

CERTIFICATE OF ANALYSIS A9832465

SAMPLE	PREP CODE	Au ppb FA+AA	Be %	WO3 %
N33986	244 --	< 5	-----	-----
59643M	244 --	-----	0.64	-----
59644M	244 --	20	-----	1.10

RERUNS from A9831420

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Invoice No. : I9831918
P.O. Number :
Account : MTT

CERTIFICATE OF ANALYSIS A9831918

SAMPLE	PREP CODE		Be %	WO3 %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
059648M	208	226	0.28	0.83	0.2	0.68	2	250	33.0	974	1.06	< 0.5	< 1	229	10	0.35	< 10	< 1	0.62	< 10	0.05
059649M	208	226	0.05	0.10	0.2	2.03	10	740	3.5	658	5.98	0.5	< 1	157	5	0.22	< 10	< 1	2.00	< 10	0.02

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CERTIFICATE OF ANALYSIS A9831918

SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
059648M	208	226	685	19	0.05	5	< 10	34	< 2	1	43	< 0.01	< 10	< 10	5	360	18
059649M	208	226	165	7	0.22	4	10	28	< 2	< 1	110	< 0.01	< 10	< 10	4	720	40

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P.O. Number :
Account : MTT

CERTIFICATE OF ANALYSIS A9831421

SAMPLE	PREP CODE		Be ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
59642M	205	226	660	< 0.2	0.06	6	20	10.5	10	0.17	< 0.5	1	391	8	0.37	< 10	< 1	0.03	< 10	< 0.01	20
59643M	205	226	>1000	< 0.2	0.04	6	< 10	65.5	10	0.11	< 0.5	< 1	355	6	0.41	< 10	< 1	< 0.01	< 10	< 0.01	30
59644M	205	226	-----	9.8	0.05	2	< 10	1.0	5640	0.97	< 0.5	1	246	27	0.37	< 10	< 1	0.01	< 10	< 0.01	1140

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CERTIFICATE OF ANALYSIS A9831421

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
59642M	205	226	3	0.01	6	< 10	< 2	2	< 1	3	< 0.01	< 10	< 10	1	< 10	2
59643M	205	226	6	0.01	6	< 10	2	2	1	< 1	< 0.01	< 10	< 10	1	< 10	2
59644M	205	226	7	0.01	6	< 10	200	110	12	31	< 0.01	< 10	10	1	300	< 2

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Account : MTT

CERTIFICATE OF ANALYSIS A9831420

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
N33986	201	202	0.6	1.37	464	90	1.5	32	0.22	< 0.5	8	29	20	2.35	< 10	< 1	0.08	30	0.41	840	33

CERTIFICATION: Hans Eichler

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CERTIFICATE OF ANALYSIS A9831420

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
N33986	201	202	< 0.01	24	810	78	< 2	4	25	0.08	< 10	10	41	< 10	82

CERTIFICATION: Ian Fuchlen

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CERTIFICATE OF ANALYSIS A9831099

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
59628M	299	229	< 0.2	0.03	4	< 10	11.0	2	0.12	< 0.5	< 1	204	1	0.26	< 10	< 1	0.02	< 10	0.01	35	10
59629M	299	229	< 0.2	0.09	4	10	64.0	56	0.46	< 0.5	< 1	166	2	0.23	< 10	< 1	0.05	< 10	0.01	85	73
59630M	299	229	< 0.2	0.09	6	30	44.0	14	1.21	0.5	< 1	188	2	0.51	< 10	< 1	0.06	< 10	< 0.01	4730	9
59631M	299	229	< 0.2	0.15	2	60	98.0	1240	0.97	0.5	< 1	210	7	0.45	< 10	< 1	0.12	< 10	0.01	2920	20
59632M	299	229	0.8	1.10	8	600	25.5	60	4.17	20.0	1	153	19	0.75	< 10	< 1	0.29	< 10	0.22	2170	16
59633M	299	229	< 0.2	3.29	2	3140	9.5	6	7.60	< 0.5	< 1	32	2	0.06	< 10	< 1	2.82	< 10	< 0.01	40	< 1
59634M	299	229	2.6	0.46	10	360	21.0	400	1.32	1.5	< 1	200	8	0.53	< 10	< 1	0.35	< 10	< 0.01	3630	9
59635M	299	229	8.8	0.73	10	660	13.5	1120	2.09	1.0	< 1	153	8	0.42	< 10	< 1	0.63	< 10	0.01	2950	9
59641M	299	229	0.2	0.10	206	30	43.5	>10000	1.09	2.5	3	197	248	3.57	< 10	< 1	0.03	< 10	< 0.01	>10000	541

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
59628M	299	229	< 0.01	3	< 10	< 2	< 2	< 1	3	< 0.01	< 10	< 10	< 1	120	< 2
59629M	299	229	< 0.01	2	< 10	2	< 2	1	6	< 0.01	< 10	< 10	1	180	2
59630M	299	229	0.01	3	< 10	< 2	< 2	39	26	< 0.01	< 10	< 10	< 1	250	6
59631M	299	229	0.02	4	< 10	32	< 2	14	45	< 0.01	< 10	< 10	< 1	250	18
59632M	299	229	0.25	8	260	44	< 2	12	216	0.01	< 10	< 10	34	420	1095
59633M	299	229	0.50	2	10	14	< 2	< 1	457	< 0.01	< 10	< 10	< 1	170	48
59634M	299	229	0.05	3	< 10	48	< 2	20	88	< 0.01	< 10	< 10	1	250	58
59635M	299	229	0.07	3	< 10	186	< 2	21	133	< 0.01	< 10	< 10	1	230	58
59641M	299	229	0.01	8	20	368	130	94	54	< 0.01	< 10	< 10	2	490	50

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CERTIFICATE OF ANALYSIS A9831096

SAMPLE	PREP CODE		W ppm	Be ppm	WO3 %	Be %
59628M	208	226	155	-----	-----	0.16
59629M	208	226	-----	-----	< 0.01	0.71
59630M	208	226	-----	-----	4.50	0.33
59631M	208	226	-----	-----	4.50	0.59
59632M	208	226	-----	37.0	4.40	-----
59633M	208	226	150	21.0	-----	-----
59634M	208	226	-----	46.0	4.30	-----
59635M	208	226	-----	25.0	4.60	-----
59641M	208	226	-----	>1000	16.80	-----

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CERTIFICATE OF ANALYSIS A9825423

SAMPLE	PREP CODE		Be %
N110413	208	226	< 0.01
N110414	208	226	< 0.01
N110415	208	226	< 0.01
N110416	208	226	< 0.01
N110417	208	226	< 0.01
N110418	208	226	< 0.01
N110419	208	226	< 0.01
N110420	208	226	0.01
N110421	208	226	< 0.01
N110422	208	226	0.01
N110423	208	226	< 0.01
N110424	208	226	< 0.01
N110425	208	226	< 0.01
N110426	208	226	< 0.01
N110427	208	226	< 0.01
N110428	208	226	< 0.01
N110429	208	226	< 0.01
N110430	208	226	0.01
N110431	208	226	0.02
N110432	208	226	< 0.01
N110433	208	226	< 0.01
N110434	208	226	< 0.01
N110435	208	226	< 0.01
N110436	208	226	< 0.01
N110437	208	226	< 0.01
N110438	208	226	< 0.01
N110439	208	226	0.01
N110440	208	226	< 0.01
N110443	208	226	< 0.01
N110444	208	226	< 0.01
N110445	208	226	< 0.01
N110446	208	226	0.01
N110447	208	226	< 0.01

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CERTIFICATE OF ANALYSIS A9823803

SAMPLE	PREP CODE		Li ppm	Al2O3 % XRF	CaO % XRF	Cr2O3 % XRF	Fe2O3 % XRF	K2O % XRF	MgO % XRF	MnO % XRF	Na2O % XRF	P2O5 % XRF	SiO2 % XRF	TiO2 % XRF	LOI % XRF	TOTAL %
059613M	244	232	36	15.60	11.51	0.01	0.16	10.01	0.17	0.01	2.05	0.06	53.79	0.04	1.50	94.91

CERTIFICATION: Ian Pirie

RERUNS from A9821603

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CERTIFICATE OF ANALYSIS A9821626

SAMPLE	PREP CODE		Be ppm	WO3 %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
059611M	208	226	0.7	0.10	2.0	0.07	10	< 10	< 0.5	138	0.45	< 0.5	< 1	290	5	0.45	< 10	< 1	0.03	10	0.01

CERTIFICATION: Hans Bidlle

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SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
059611M	208	226	120	3	< 0.01	3	10	32	14	2	4	< 0.01	< 10	< 10	2	450	4

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CERTIFICATE OF ANALYSIS A9822625

SAMPLE	PREP CODE	Au ppb FA+AA
059610M	244 --	< 5
059611M	244 --	40
059614M	244 --	< 5

CERTIFICATION: Thanh Vinh

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Account : MTT

CERTIFICATE OF ANALYSIS A9821603

SAMPLE	PREP CODE		Be %	WO3 %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
059610M	208	226	2.83	0.47	< 0.2	0.39	< 2	100	>100.0	116	1.36	1.5	< 1	251	3	0.61	< 10	< 1	0.23	< 10	0.03
059612M	208	226	0.56	-----	< 0.2	0.33	< 2	90	32.0	< 2	0.44	< 0.5	< 1	153	< 1	0.19	< 10	< 1	0.36	< 10	0.01
059613M	208	226	0.04	-----	< 0.2	3.96	< 2	2710	5.0	< 2	8.26	< 0.5	< 1	34	1	0.10	< 10	< 1	3.34	< 10	0.06
059614M	208	226	0.94	1.62	0.2	0.15	< 2	30	72.0	240	0.63	< 0.5	< 1	222	3	0.37	< 10	< 1	0.07	< 10	0.01

CERTIFICATION: Hunt Biddle

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Project : LOGTUNG -BC
Comments:

Page Number :1-B
Total Pages :1
Certificate Date: 25-JUN-98
Invoice No. :I9821603
P.O. Number :
Account :MTT

CERTIFICATE OF ANALYSIS A9821603

SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
059610M	208	226	890	7	0.01	3	40	8	< 2	6	25	< 0.01	< 10	< 10	5	730	50
059612M	208	226	50	< 1	0.05	2	< 10	10	< 2	< 1	38	< 0.01	< 10	< 10	1	30	8
059613M	208	226	90	< 1	0.72	3	160	30	< 2	1	477	< 0.01	< 10	< 10	10	40	28
059614M	208	226	1860	5	< 0.01	2	< 10	10	< 2	14	19	< 0.01	< 10	< 10	1	250	2

CERTIFICATION: Hoyt Biddle.

APPENDIX IV

ROCK SAMPLE DESCRIPTIONS

NORTHERN DANCER SAMPLE DESCRIPTIONS

Sample Number	Description
059648M	4 cm quartz vein with pale blue, milky to clear beryl crystal plus traces of wolframite and scheelite. Veins traced from ridge crest toward (040°) main beryl/wolframite float area.
059649M	20 cm thick feldspar pegmatite on uphill side of ridge locale. Part of an extensive system of dykes and veins mostly purple fluorite rich but often with beryl and occasionally wolframite. This specimen contains about 3% pale blue beryl, a bleb of bismuthinite, small crystals of wolframite, rims and blebs of scheelite and a few grains of a mineral that fluoresces bright orange. It is about 60% coarse feldspar and 40% coarse quartz in one large block.
059642M	Quartz vein from swarm at head of cirque. Minor ~1% beryl. Veins up to 1 m wide. Swarm ~50 m long by 20 m wide ~15% quartz veins. Veins localized in quartz monzonite immediately adjacent to schist contact.
059643M	Quartz vein float with ~5% beryl. Other float contains wolframite and molybdenite rosettes. Most talus quartz monzonite but adjacent to schist contact. Vein fragments up to 10 cm thick. Most unmineralized.
059644M	Quartz vein float with ~0.1% acicular silver crystals (bismuthinite?), some with yellow ochre coating them.
059610M	Upper talus zone - 40x30x6 cm slabs. ~50% coarse grained, white to pale blue beryl crystals up to 0.7 mm in diameter intergrown and crosscut by ~46% glassy to milky, white to pale grey quartz, 1% wolframite surrounded by dark brown oxide; ~1% beige mica - mostly along edges of rock; 2% scheelite mostly along one side; trace clear fluorite.
059611M	Head of cirque - 40x60x80 cm boulders "barren quartz"; 1% wolframite in a couple of large blebs; 2% red to yellow limonite; 1% purple fluorite in bleb with wolframite; trace scheelite; one large grain bright gold fluorescence under quartz.
059612M	Talus fragment uphill from main talus zone, 5 cm thick with 1 cm quartz vein in centre; ~20% light to medium grey glassy quartz; ~20% pale green - blue to white beryl crystals intergrown with ~60% hackly weathering, white feldspar.

Sample Number	Description
059613M	Upper talus zone; 60x60x20 cm slabs; ~5% pale green-blue beryl intergrown with 75% white, hard, hackly weathering feldspar; ~10% purple fluorite; 5% medium to pale grey quartz; 5% silver-grey mica mostly in a band (8 mm wide) running across the rock; trace scheelite.
059614M	Main talus zone; "typical" white quartz with beryl 30x20x15 cm block; ~80% white milky quartz; ~18% pale blue-green to white beryl crystal aggregates, mostly along edges; ~2% wolframite; from bright yellow to red limonite (some likely after molybdenite); minor scheelite usually on edge of wolframite; trace clear fluorite.
59628M	Typical beryl-quartz vein outside of high grade core; ~7% coarse beryl; 10x5x5 cm.
59629M	Typical beryl-quartz vein in the high grade core; 10x10x10 cm fragment off larger boulder; ~15% beryl, especially on edges; no wolframite; minor scheelite.
59630M	Typical quartz-beryl-wolframite vein from high grade core, 20x10x10 cm fragment off larger boulder; ~10% beryl and 4% wolframite, also about 1% scheelite rimming wolframite crystals.
59631M	Typical quartz-beryl-wolframite vein from high grade core, 10x10x5 cm fragment; ~7% beryl and 7% wolframite plus 5% scheelite along margins and with wolframite.
59632M	Quartz-wolframite vein, 10x8x8 cm from 10 cm thick, 50x50 cm slab; ~3% wolframite, no beryl. All wolframite crystals rimmed with scheelite ~2%.
59633M	Quartz-fluorite vein from a 12 cm thick vein paralleling banding in skarn - subhorizontal. Fluorite is purple. No visible scheelite, wolframite or beryl.
59634M	A 20 cm thick, quartz-wolframite vein from a 3x1.5 m outcrop 040°/55° SW. No visible beryl; wolframite ~2% rimmed by scheelite ~1%.
59635M	Quartz-fluorite vein about 20 m east of 59634M. This set of veins at ~160°/steep. 1% wolframite occurs as 1 mm to 1 cm bladed crystals surrounded by ~2% scheelite. A few glassy clear to green beryl crystals. These veins are poddy compared to the 040° which are more tabular. Veins are exposed along and adjacent to a ridge crest. Sample 8x8x8 cm.

Sample Number	Description
59641M	Quartz-wolframite-beryl vein, 16x8x8 cm, wolframite ~30%, 5% scheelite plus yellow ochre stained, dull grey, striated mineral (5%). Beryl very patchy - little or none in this sample.

SCHEELITE–MOLYBDENITE VEINS

LOGTUNG DEPOSIT

131° 35'

60° 00'

6 655 000 N

6 654 000 N

6 653 000 N

354 000 E

355 000 E

356 000 E

YUKON B.C.

LCP

M225

E

C

B

A

D

HIGHEST CONCENTRATION OF BERYL FLOAT

WOLFRAMITE VEINS

West Logtung Creek

1600

1500

1400

1700

59636 59647 59645 59637 59638 59644 59643 59640 59639 59648 59614 59610 59613 59609 59633 59611 59632 59634 59635 59642 59628 59630 59629 59641 59631 4980 4979 4978 34753 34754 34755 34757 37986 TR-98-A TR-98-B TR-98-C TR-98-D TR-98-E

N33987 N33988 N33989 N33990

NORTHERN DANCER PROPERTY

ALASKA YUKON TERRITORY NWT WHITEHORSE BRITISH COLUMBIA

0 500 Km

TRUE NORTH

UTM GRID NORTH

MAGN. NORTH

2° 23'

NTS 105B/4
UTM ZONE 9
CONTOUR INTERVAL 50m

xxxx Quartz vein with beryl ± wolframite ± scheelite

Abundant quartz vein float with beryl ± wolframite ± scheelite

* Scattered quartz vein float with beryl ± wolframite ± scheelite

Pegmatite dykes with fluorite ± beryl

A Area of mineralization

1998 hand trench

1998 rock sample location

1998 soil sample location

Road

Claim boundary

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,933

NORDAC RESOURCES LTD.

FIGURE 3
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

MINERALIZATION

NORTHERN DANCER PROPERTY

SCALE 1:5000
0 50 100 200 300 400 500 m

DRAWN/REVISED BY: AG
PROJECT:
FILE: NORDAC\ND\ACAD99\ND5-MINZ.DWG
DATE: MAY, 1999