GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL

REPORT ON THE

MITZI OPTION
TT 1 & 2 CLAIMS
WS 1 – 6 CLAIMS

OMINECA MINING DIVISION

N.T.S. 93 N/01

Latitude: 55 degrees, 7.5 minutes N
Longitude: 124 degrees, 27.5 minutes W

Work performed: June 1, 1989 to November 20, 1989

NORANDA EXPLORATION COMPANY, LIMITED
(no personal liability)

REPORT BY: TERRY CAMPBELL
TED WONG

MARCH, 1990

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SUMMARY

The Mitzi, WS and TT claims were acquired to cover an area of regional aeromagnetic high anomalies to the southeast of Witch Lake. The geologic environment appears to be remarkably similar to the recent Mount Milligan Cu-Au porphyry discovery 20 km to the east. A known Cu-Au showing occurs on the claims in Taylor Creek. The showing is a pyrrhotite-chalcopyrite skarn in andesitic volcanics. Geologic mapping has identified one magnetic anomaly as an alkaline stock intruding andesitic volcanics. Limited outcrop exposure on much of the property has hampered geologic mapping and soil geochem surveys. A recent recon I.P. survey has identified three large areas of high chargeability which warrant further follow up.

Further work on the claims will concentrate on targets already defined and develop new targets to the south and west of the present grid.

INTRODUCTION

The Mitzi, TT and WS claim groups were staked in the early spring of 1989 to secure ground around the previously staked Mitzi claims. Noranda Exploration Company, Limited optioned the Mitzi 1 and 2 claims from Richard Haslinger during the winter of 1988-89. The claims are located along the south shore of Witch Lake approximately 180 km northwest of Prince George.

During the 1989 field season, a large exploration program was conducted on the three claim groups. A 7.5 km baseline was cut across the claims groups and grid lines were established running north and south of the baseline. Preliminary work on these properties included geologic mapping, soil and rock geochemistry and a wide spaced recon I.P. survey.

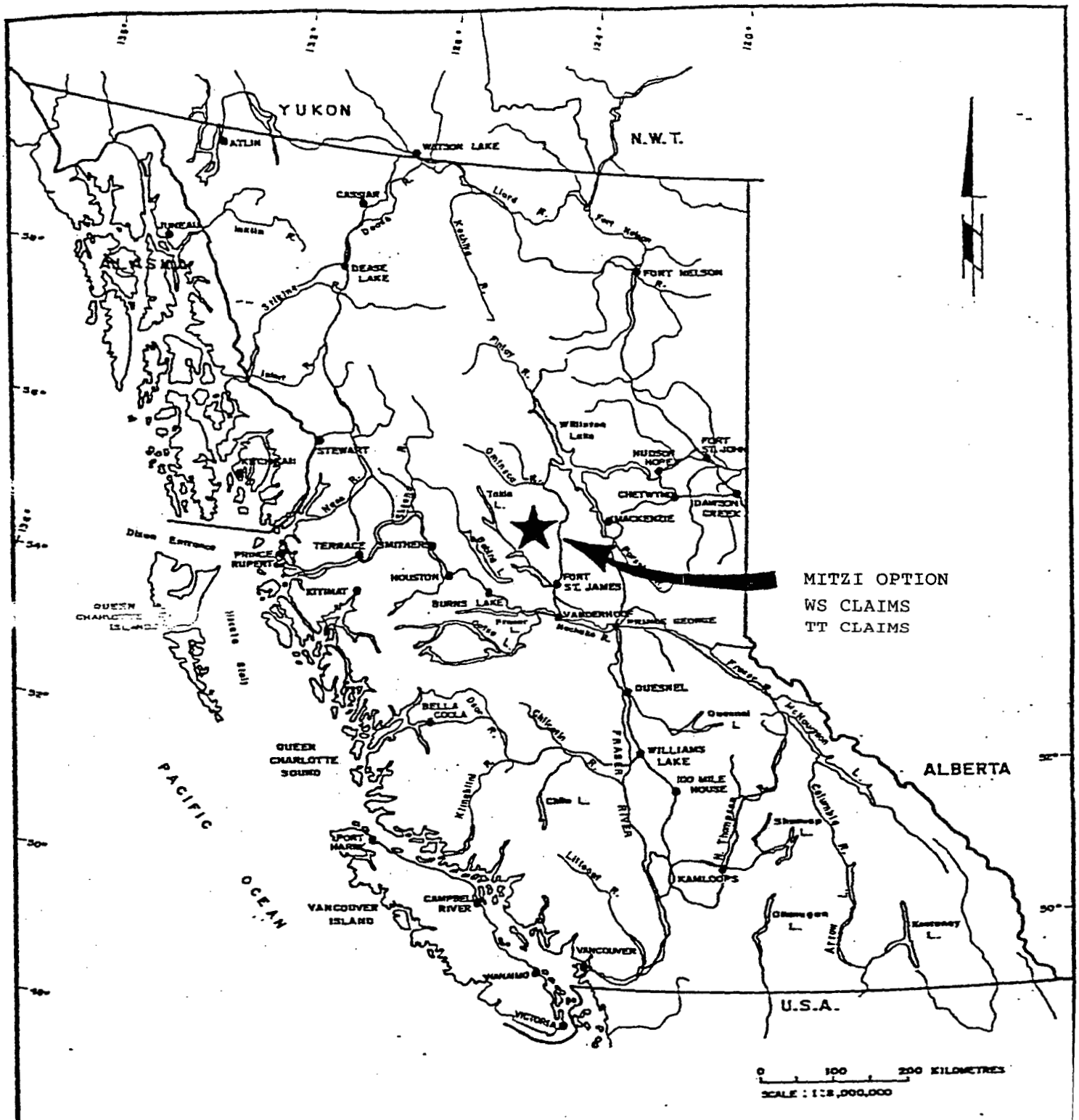
LOCATION AND ACCESS

The Mitzi, TT and WS groups of claims are located along the south shore of Witch Lake, approximately 180 km northwest of Prince George.

Access to the property is achieved by either float plane into Witch Lake from Fort St. James or by a rough 4 x 4 trail from the south shore of Chuchi Lake.

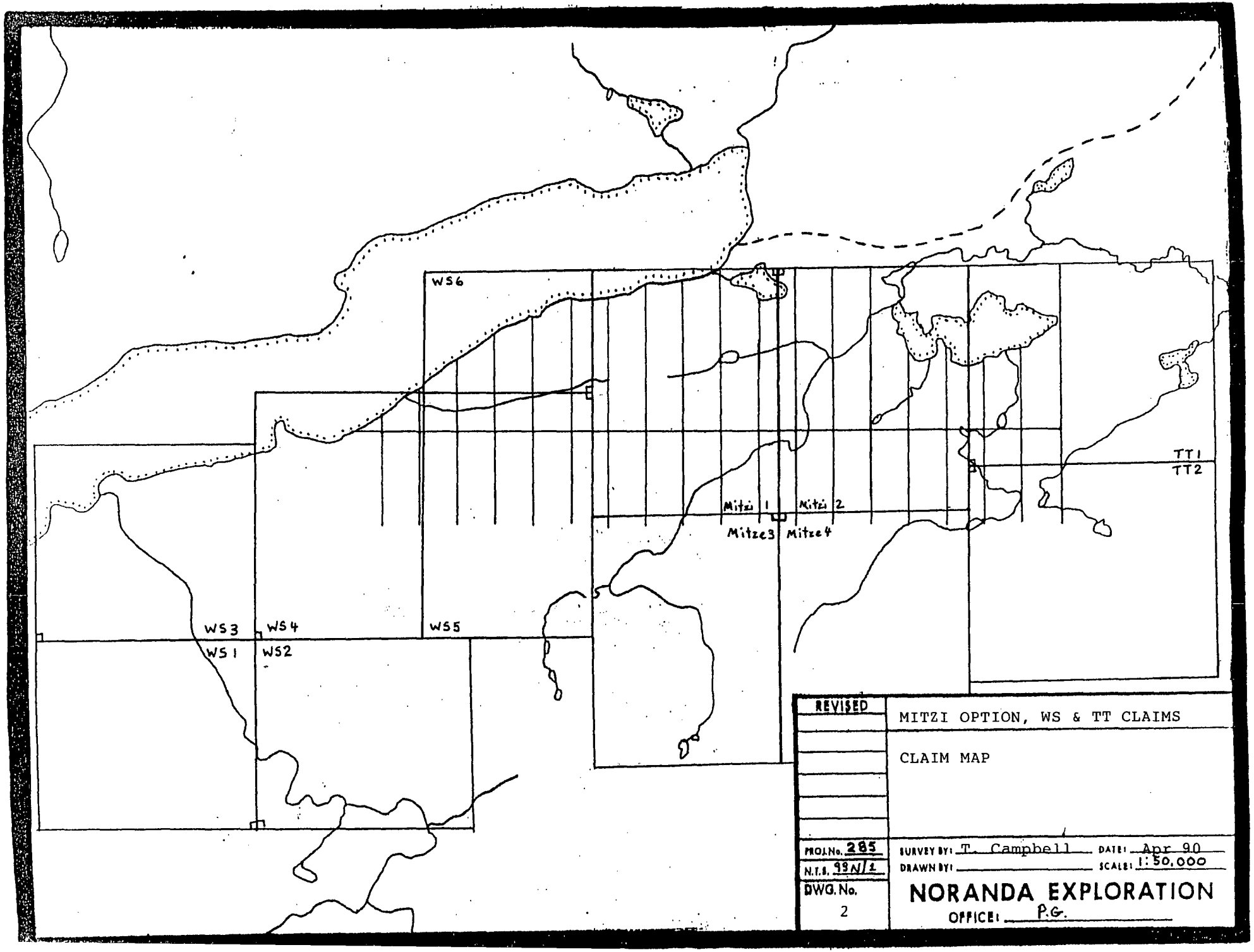
CLAIM STATISTICS

NAME	RECORD #	# UNITS	RECORD DATE	OWNER
Mitzi 1	8545	20	July 15, 1987	R. Haslinger
Mitzi 2	8546	20	July 15, 1987	R. Haslinger
Mitze 3	10166	20	Feb. 13, 1989	R. Haslinger
Mitze 4	10167	20	Feb. 13, 1989	R. Haslinger
TT 1	10164	20	Feb. 13, 1989	Norex
TT 2	10165	20	Feb. 13, 1989	Norex
WS 1	10133	20	Jan. 23. 1989	Norex
WS 2	10134	20	Jan. 23, 1989	Norex
WS 3	10135	20	Jan. 23, 1989	Norex
WS 4	10136	20	Jan. 23, 1989	Norex
WS 5	10137	20	Jan. 24, 1989	Norex
WS 6	10138	8	Jan. 24, 1989	Norex



REVISED	MITZI OPTION, WS & TT CLAIMS
	LOCATION MAP
PROJ. No. 285	SURVEY BY: C T Toney DATE: Sept 89
N.T.S. 93 N1	DRAWN BY: S.E.B. SCALE: 1:8,000,000
DWG. No. 1	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE, B.C.

VANCAL 11927



REVISED	MITZI OPTION, WS & TT CLAIMS
	CLAIM MAP
PROJ.No. 285	SURVEY BY: T. Campbell DATE: Apr 90
N.T.S. 99N/1	DRAWN BY: SCALE: 1:50,000
DWG. No. 2	NORANDA EXPLORATION
	OFFICE: P.G.

TOPOGRAPHY AND VEGETATION

The project area is situated on the southeast shore of Witch Lake, a long linear lake trending east northeast. The underlying physiography ranges from undulating glacial topography on the Mitzi 2 and 4, and the TT 1-2 claims, to rugged cliffs, canyons and outcrop ridges on the Mitzi 1 and 3, and the WS 1-6 claims. Elevations range from 917 metres on Witch Lake to 1300 metres at the south end of the Mitzi claims. The undulating glacial topography consists of rolling eskers, drumlins, outwash flats and low swampy areas. The low areas are usually water filled forming a chain of swamps and ponds all linked to the Wittsichica Creek drainage system. A large shallow lake, locally known as "Bird Lake" lies at the boundary of the Mitzi and TT claims. Vegetation consists of both mature and immature stands of pine, spruce and fir which has never been logged. Undergrowth consists mainly of alder, juniper and minor devils club.

PREVIOUS WORK

pre 1960	Discovery of Ted Taylor showing
1965-68	Regional work by Noranda Exploration
1971	Ambassador Mines Ltd. of Vancouver, B.C., completed a soil grid, magnetometer and seismic survey on the area around the Ted Taylor showing.
1987	Staked by R. Haslinger
1988	Placer Dome Inc. performed a recon examination on the Ted Taylor showing. They collected 3 lines of soil samples and took a number of rock samples.

GRIDS

A 7.5 km cut baseline was established during the 1989 field season in order to maintain control along the length of the property. The base line runs at an azimuth of 090 degrees with wing lines running north and south perpendicular to it. The base line is cut and picketed with station pickets every 25 metres. Wing lines are turned off every 200 metres using a compass, and are flagged with stations marked every 25 metres with red and blue flagging tape. Four lines have been cut, chained and picketed to facilitate a recon I.P. survey.

REGIONAL GEOLOGY

The area has most recently been described by J. E. Armstrong in G.S.C. Memoir 252, Fort St. James Map-Area in 1949. The area has also been covered on G.S.C. Map 971A by H. M. A. Rice in 1949 (Geology of Smithers - Fort St. James Area).

The Mitzi property lies in a broad northwest trending package of rocks known as the Quesnel Trough. These include Upper Triassic to Lower Jurassic Takla Group volcanics and sediments which have been intruded by a series of felsic to ultramafic stocks and batholiths, ranging in age from Upper Triassic to Lower Cretaceous.

The Takla group volcanics and sediments include andesitic to basaltic flows, tuffs, tuff breccia and agglomerates interbedded with conglomerates, greywacke, shales and limestones. The intrusive rocks include the Hogem batholith and several other Omineca intrusions consisting of granite, syenite, granodiorite, quartz diorite, diorite, gabbro and pyroxenite.

The area is cut by numerous fault structures usually trending northwest, parallel to the Pinchi Fault. These may be sub-parallel splay faults with tensional or transverse structures trending east-west.

Recent attention has been focused on several bulk tonnage Cu-Au prospects throughout the Quesnel Trough. The most notable to date are the Mount Milligan project, where a joint venture between Continental Gold Corp and B.P. Resources has reportedly outlined 300 million tons of 0.30% Cu and 0.020 opt Au and Mount Polley, where Imperial Metals has announced 53 million tons of 0.44% Cu and 0.017 opt Au. Other similar projects in the area include the TAS (Noranda-Goldcap-Blackswan), Cat Mountain (Lysander-B.P.), Chuchi-Phil (Digger-B.P.) and Windy (Placer Dome-Big Bar). All projects are presently evaluating Cu-Au mineralization in close proximity to alkaline stocks intruding Takla Group rocks. These stocks all have a characteristic high magnetic signature as seen on government aeromagnetic maps. The Mount Milligan MBX Zone is situated on the flanks of an extremely intense, isolated magnetic feature. The Mitzi property covers a very similar environment.

Copper deposits, related to alkaline stocks throughout the Cordillera usually contain low amounts of molybdenum, but appear to be enriched in gold and/or silver (Bar et al, 1976). The majority of the known porphyry deposits associated alkaline stocks appear related to Upper Triassic to Lower Jurassic volcanic and sedimentary rocks of the Nicola, Takla and Stikini Groups. A summary of these deposits are listed on Table 3.

LOCAL GEOLOGY

The Mitzi property is underlain by Upper Triassic-Lower Jurassic volcanics of the Takla Group. These volcanics include massive to porphyritic andesites that appear to be locally hornfelsed. The massive andesites are usually medium to dark green in color, sometimes weakly foliated. The porphyritic andesites typically contain 25-50% 1-5 mm feldspar, hornblende and augite phenocrysts. These rocks are usually hornfelsed and can contain up to 10% disseminated pyrrhotite.

The regional aeromagnetic survey has identified two high magnetic sources on the Mitzi and TT claims. Geologic mapping has outlined a diorite/monzodiorite stock, along the southeast shore of Witch Lake, coincident with one magnetic high feature. The stock is composed of 50-60% plagioclase, 35-40% biotite and hornblende, 1-5% K-feldspar, 2-5% magnetite, and trace amounts of pyrite and pyrrhotite. A second gabbroic phase of the intrusive occurs locally throughout the stock.

Mineralization identified to date on the Mitzi property includes disseminated pyrrhotite +/- pyrite and chalcopyrite disseminated throughout the volcanics. A previously known Cu-Au gold showing in Taylor Creek consists of massive blebs of pyrrhotite and chalcopyrite within locally skarned volcanics. One assay from the showing returned a value of 1.59% Cu and 0.144 opt Au from a grab sample. Subsequent sampling failed to repeat the results.

GEOCHEMISTRY

SOILS - Method:

A total of 913 "B" horizon soil samples were collected on the property by Noranda Exploration personnel. The samples were taken using a grub hoe or auger from holes ranging in depth from 35 to 50 cm. The samples were placed in kraft wet-strength paper bags, dried and shipped to the Noranda laboratory at 1050 Davie Street, Vancouver, B.C. All samples were analyzed for copper and gold only. Results are plotted at 1:5,000 scale maps at the rear of the report.

- Observations:

Gold - Gold values on the property range from 1 to 350 ppb. Samples greater than 25 ppb are considered anomalous. Of the 913 samples collected, only 25 are anomalous, and these are scattered throughout the gridded area.

Copper - The soil survey has revealed several copper anomalies on the Mitzi and WS claims. The larger anomalies are listed below; for exact location see Figure 5.

C-1 is a large elongated anomaly located in the north western corner of the property. It is approximately 2 km long and up to 400 m wide and has values that range between 108 and 4000 ppm Cu.

C-2 is a medium sized semi-circular anomaly located along the south shore of Witch Lake. It is approximately 400 m by 700 m and has copper values that range between 104 and 2100 ppm.

C-3 is a second medium sized elongate anomaly located to the southeast of the C-2 anomaly. It is approximately 800 m long and up to 200 m wide and has copper values between 120 and 1700 ppm.

C-4 is located south of the C-3 anomaly. It is approximately 600 m long and up to 150 m wide. The copper values range between 120 and 400 ppm.

C-5 is a small circular anomaly located in the north central area of the property. It is approximately 400 m long and 250 m wide and has copper values ranging from 108 to 388 ppm.

A number of smaller and single station anomalies are scattered throughout the grid.

ROCKS - Method:

During the 1989 field season, 43 rocks were collected from outcrop and talus slopes on the Mitzi and WS claim groups. All samples were grabs. The rocks were placed in plastic bags and shipped to Acme Analytical Laboratories, 852 E. Hastings St., Vancouver, B.C. The rock samples were analyzed for 30 elements by I.C.P. and Au by geochem.

- Observations:

Gold: None of the samples collected and analyzed for gold produced encouraging results. The values range between 1 and 95 ppb.

Copper: Nine rock samples collected were greater than 1000 ppm Cu. Seven of these samples were taken from the Ted Taylor showing in Taylor Creek. These anomalous rock samples range between 1033 and 3590 ppm Cu.

GEOPHYSICS

During November 1 to 13, 1989, a geophysical survey consisting of time-domain I.P. was completed on Lines 80800E, 81600E, 82400E, 83200E on the grid of the Mitzi property. The I.P. survey was carried out by Noranda personnel and employed a BRGM IP6 time-domain receiver and a Phoenix Geophysics IPT-1 transmitter. A 50 metre dipole-dipole array was used with readings recorded down to the fifth separation (n=5). The I.P. data is presented in pseudo-section form at a scale of 1:5,000.

RESULTS:

A strong, surficial I.P. response with depth extent lies open to the south at the south end of L.83200E and is directly associated with a high resistivity response. There is an interpreted shallow and narrow I.P. response centred at 796+50N as well as a strong response indicated at the north end of the line. Readings were especially noisy from 802+50N to 808_00N, due to perhaps telluric noise.

No outstanding chargeability anomalies were recorded on L.82400E. A shallow resistivity anomaly is centred at 794+50N. Noise was not as much a problem with this line as L.83200E.

The south portion of L.81600E exhibits good I.P. results. The strong I.P. response centred at 795+75N is deeper sourced than the moderate anomaly immediately south of it. The anomaly centred at 793+25N may be an off-line response. The anomaly at the extreme south end is open to the south and lies very close to the surface. All I.P. responses have corresponding resistivity responses.

A broad anomalous I.P. response is indicated for much of L.80800E. The strong signature centred at 793+25N is complex as is the I.P. response at 791+75N. The resistivity response for the former anomaly appears to be an off-line response. The I.P. anomaly centred at 800+75N could be the continuation of the deep anomaly at 795+75N on the previous line. Readings were noisy at the north end of the line at the fifth separation.

CONCLUSIONS

The Mitzi, WS and TT claim groups are underlain by massive to porphyritic volcanics of the Takla Group which have been intruded by a series of alkaline stocks. Mineralization consists of a Cu-Au skarn at the Ted Taylor showing and disseminated pyrrhotite +/- pyrite and chalcopyrite within porphyritic andesites.

Soil geochemistry has identified several interesting copper anomalies on the Mitzi and WS claims. The geochem survey failed to outline any extensive areas of anomalous gold geochem.

Four recon lines of I.P. were completed and partially outlined three large areas of high chargeability. The most attractive target is an area of high chargeability between lines 80,800E and 81,600E. This target lies peripheral to a large magnetic high which probably represents an alkaline stock.

RECOMMENDATIONS

Extend the main grid to the south and to the west to facilitate further I.P. and geochem surveys. I.P. survey to be completed at 400 metre line spacing in areas of previously outlined geochem and I.P. targets. A mag survey should be completed over the entire grid.

REFERENCES

GARNET, J.A., 1978: Geology and Mineral Occurrences of the Southern Hogem Batholith.

MONTGOMERY, J.H., 1971: Geochemical and Geophysical report on the King group of claims on behalf of Ambassador Mines Ltd. BCDM Ass. rpt. #3406.

PATERSON, I.A., 1974: G.S.C. Paper 74-1, Part B.

PRICE, S., 1988: A Reconnaissance geochemical report on the Mitzi 1 and 2 claims. Placer Dome Inc. BCDM Ass. rpt. #17793.

RONEY, C.T., MAXWELL, G., 1989: Geochemical report on the Mitzi claims. Noranda Exploration Company, Limited.

APPENDIX I

STATEMENT OF COSTS FOR THE

TT CLAIMS

MITZI CLAIMS

WS CLAIMS

STATEMENT OF COSTS

TT CLAIMS:

a)	WAGES:	
	Linecutting - 16 md @ $125/day	$ 2,000.00
	I.P. Survey - 25 md @ $150/day	$ 3,750.00
b)	FOOD, ACCOMMODATION & TRANSPORTATION:	
	Camp costs - 41 md @ $60/day	$ 2,460.00
c)	TRANSPORTATION:	
	Truck rental - 1/2 month @ $1000/mo.	$ 500.00
	ATV rental - 2 x 1/2 month @ $500/mo.	$ 500.00
	Boat & Barge rental - 1/4 month @ $1000/mo	$ 250.00
	I.P. Equipment rental	$ 1,000.00
d)	REPORT PREPARATION:	
	Author	$ 100.00
	Drafting	$ 75.00
	Typing	$ 50.00
	Total Cost:	$10,685.00

COST BREAKDOWN

GEOPHYSICS:	
Wages	$ 3,750.00
Food & Accommodation	$ 1,500.00
Equipment Rental	$ 1,000.00
Transportation	$ 800.00
Report Preparation	$ 225.00
	$ 7,275.00

LINECUTTING:	
Wages	$ 2,000.00
Food & Accommodation	$ 960.00
Transportation	$ 450.00
	$ 3,410.00

STATEMENT OF COSTS

MITZI CLAIMS:

a)	WAGES:	
	Geology - 20 md @ $150/day	$ 3,000.00
	Soil Sampling - 20 md @ $105/day	$ 2,100.00
	Linecutting - 40 md @ $125/day	$ 5,000.00
	I.P. Survey - 25 md @ $150/day	$ 3,750.00
b)	FOOD, ACCOMMODATION & TRANSPORTATION:	
	Camp costs - 105 md @ $60/day	$ 6,300.00
c)	TRANSPORTATION:	
	Truck rental - 1.5 months @ $1000/mo	$ 1,500.00
	ATV rental - 2 x 1 month @ $500/mo	$ 1,000.00
	Boat & Barge rental - .75 month @ $1000/mo	$ 750.00
	Fixed Wing	$ 1,276.00
	Helicopter	$ 1,903.50
d)	ANALYSIS:	
	412 soil samples @ $8.60/sample	$ 3,543.20
	38 rock samples @ $15.25/sample	$ 579.50
e)	EQUIPMENT RENTAL:	
	I.P. equipment - 5 days @ $200/day	$ 1,000.00
f)	REPORT PREPARATION:	
	Author	$ 200.00
	Drafting	$ 100.00
	Typing	$ 75.00
Total Cost:		$32,076.70

COST BREAKDOWN

GEOLOGY:	
Wages	$ 3,000.00
Food & Accommodation	$ 1,200.00
Transportation	$ 1,288.38
Report Preparation	$ 125.00
	$ 5,613.38
GEOCHEMISTRY:	
Wages	$ 2,100.00
Food & Accommodation	$ 12,00.00
Transportation	$ 1,288.37
Analysis	$ 4,122.70
Report Preparation	$ 125.00
	$ 8,836.07

LINECUTTING:	
Wages	$ 5,000.00
Food & Accommodation	$ 2,400.00
Transportation	$,1,299.38
	$ 8,688.38
GEOPHYSICS:	
Wages	$ 3,750.00
Food & Accommodation	$ 1,500.00
Transportation	$ 2,564.37
Equipment Rental	$ 1,000.00
Report Preparation	$ 125.00
	$ 8,939.37

STATEMENT OF COSTS

WS 1-5 CLAIMS:

a)	WAGES:	
	Linecutting - 12 md @ $125/day	$ 1,500.00
	Geology - 12 md @ $150/day	$ 1,800.00
	Soil Sampling - 12 md @ $105/day	$ 1,260.00
b)	FOOD, ACCOMMODATION & TRANSPORTATION:	
	Camp costs - 36 md @ $60/day	$ 2,160.00
c)	ANALYSIS:	
	345 samples @ $8.60/sample	$ 2,967.00
	5 samples @ $15.25/sample	$ 76.25
d)	REPORT PREPARATION:	
	Author	$ 100.00
	Drafting	$ 100.00
	Typing	$ 50.00
	Total Cost:	$ 9,653.25

COST BREAKDOWN

GEOLOGY:	
Wages	$ 1,800.00
Food, Accommodation & Transportation	$ 720.00
Report Preparation	$ 125.00
	$ 2,645.00
GEOCHEMISTRY:	
Wages	$ 1,260.00
Food, Accommodation & Transportation	$ 720.00
Analysis	$ 3,043.25
Report Preparation	$ 125.00
	$ 5,148.25
LINECUTTING:	
Wages	$ 1,500.00
Food, Accommodation & Transportation	$ 720.00
	$ 2,220.00

STATEMENT OF COSTS

WS-6 CLAIM:

a)	WAGES:	
	Geology - 10 md @ $150/day	$ 1,500.00
	Soil Sampling - 10 md @ $105/day	$ 1,050.00
b)	FOOD, ACCOMMODATION & TRANSPORTATION:	
	Camp costs - 20 md @ $60/day	$ 1,200.00
c)	ANALYSIS:	
	193 samples @ $8.60/sample	$ 1,659.80
d)	REPORT PREPARATION:	
	Author	$ 100.00
	Drafting	$ 50.00
	Typing	$ 50.00
	Total Cost:	$ 5,609.80

COST BREAKDOWN

GEOLOGY:	
Wages	$ 1,500.00
Food, Accommodation & Transportation	$ 600.00
Report Preparation	$ 100.00
	$ 2,200.00
GEOCHEMISTRY:	
Wages	$ 1,050.00
Food, Accommodation & Transportation	$ 600.00
Analysis	$ 1,659.80
Report Preparation	$ 100.00
	$ 3,409.80

APPENDIX II

STATEMENT OF QUALIFICATIONS

I, Terrence Campbell, of Prince George, Province of British Columbia, do hereby certify that:

1. I am a geologist residing at 6634 Essex Crescent, Prince George, British Columbia.

2. I am a 1985 graduate of the University of British Columbia, B.Sc. (Geology).

3. I am a member in good standing of the British Columbia Yukon Chamber of Mines.

4. I presently hold the position of Field Geologist with Noranda Exploration Company, Limited (no personnal liability) and have been in their employ since 1986.

Terrence Campbell

STATEMENT OF QUALIFICATIONS

I, Ted Wong, of the City of Vancouver, Province of British Columbia, hereby certify that:

1. I am a geophysicist residing in Burnaby, B.C.

2. I have graduated from the University of British Columbia in 1983 with a B.Sc. in Geophysics.

3. I am a professional geophysicist, registered with the Association of Professional Engineers, Geologists and Geophysicists of Alberta. I am a licensed professional geophysicist, registered with the Association of Professional Engineers, Geologists and Geophysicists of the Northwest Territories.

4. I have practised by profession on a continual basis since 1984.

5. I have been employed by Noranda Exploration Company, Limited since September, 1989.

Ted Wong

Ted T. Wong, P. Geoph.

ANALYTICAL METHOD

DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

The methods listed are presently applies to analyse geological materials by the Noranda Geochemical Laboratory at Vancouver. (March, 1984).

Preparation of Samples

Sediments and soils are dried at approximately 80°C and sieved with a 80 mesh nylon screen. The -80 mesh (0.18 mm) fraction is used for analysis.

Rock specimens are pulverized to -120 mesh (0.13 mm). Heavy mineral fractions (panned samples) are analysed in its entirety, when it is to be determined for gold without further sample preparation. See addendum.

Analysis of Samples

Decomposition of a 0.200 g sample is done with concentrated perchloric and nitric acid (3:1), digested for 5 hours at reflux temperature. Pulps of rock or core are weighed out at 0.2 g or less depending on the matrix of the rock, and twice as much acid is used for decomposition than that is used for silt or soil.

The concentrations of Ag, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, V and Zn (all from the group A elements of the fee schedule) can be determined directly from the digest (dissolution) with an atomic absorption spectrometer (AA). A Varian-Techtron Model AA-5 or Model AA-475 is used to measure elemental concentrations.

Elements Requiring Specific Decomposition Method

Antimony - Sb: 0.2 g sample is attached with 3.3 mL of 6% tartaric acid, 1.5 mL conc. hydrochloric acid and 0.5 mL of conc. nitric acid, then heated in a water bath for 3 hours at 95°C. Sb is determined directly from the acid solution with an AA-475 equipped with electrodeless discharge lamp (EDL).

Arsenic - As: 0.2 - 0.4 g sample is digested with 1.5 mL of 70% perchloric acid and 0.5 mL of conc. nitric acid. A Varian AA-475 equipped with an As-EDL measures the arsenic concentration of the digest.

Barium - Ba: 0.1 g sample is decomposed with conc. perchloric, nitric and hydrofluoric acid. Atomic absorption using a nitrous oxide-acetylene flame determines Ba from the aqueous solution.

Bismuth - Bi: 0.2 g - 0.3 g is digested with 2.0 mL of perchloric 70% and 1.0 mL of conc. nitric acid. Bismuth is determined directly from the digest into the flame of the AA instrument c/w EDL.

Gold - Au: 10.0 g sample (Pan-concentrates see below) is digested with aqua regia (1 part nitric and 3 parts hydrochloric acid). Gold is extracted with Methyl iso-Butyl ketone (MIBK) from the aqueous solution. Gold is determined from the MIBK solution with flame AA.

Magnesium - Mg: 0.05 g - 0.10 g sample is digested with 4 mL perchloric/nitric acid (3:1). An aliquot is taken to reduce the concentration to within the range of atomic absorption. The AA-475 with a nitrous oxide flame determines Mg from the aqueous solution.

Tungsten - W: 1.0 g sample sintered with a carbonate flux and thereafter leached with water. The leachate is treated with potassium thiocyanate. The yellow tungsten thiocyanate is extracted into tri-n-butyl phosphate. This permits colourimetric comparison with standards to measure tungsten concentration.

Uranium - U: An aliquot, taken from a perchloric-nitric (3:1) decomposition, usually from the multi-element digestion, is diluted with water and a phosphate buffer. This solution is exposed to laser light, and the luminescence of the uranyl ion is quantitatively measured on the UA-3 (Scintrex).

LOWEST VALUES REPORTED IN PPM

Ag - 0.2	Mn - 20	Zn - 1	Au - 0.1 (10 ppb)
Cd - 0.2	Mo - 1	Sb - 1	W - 2
Co - 1	Ni - 1	As - 1	U - 0.1
Cu - 1	Pb - 1	Ba - 10	
Fe - 100	V - 10	Bi - 1	

IP 6

DESCRIPTION

IP 6 is a six channel multiwindow Time Domain Induced Polarization receiver.

The six channels permit to measure six receiver dipoles, which provides a high efficiency in the field.

IP decay curves may be analysed by various types of sampling : up to 10 windows are available, with arithmetic or logarithmic widths. This multiwindow analysis provides a high accuracy in the definition of the decay curve.

Measurements are made very easy through a fully automatic measuring process : self test and calibration, autosynchronization and re-synchronization at each cycle, SP buck out including linear drift correction, automatic gain selection, digital stacking for noise reduction, and fully documented displays are controlled by the microprocessor to ensure the highest accuracy and reliability of the results.

The internal memory can store up to eighteen hundreds measurements ; a serial link permits to transfer the data to a printer for listing the results or to a microcomputer for storing, plotting and interpreting the data.

Efficiency, accuracy, ease to use make IP 6 a high technology key tool for Induced Polarization Prospecting.

APPENDIX VI

GEOCHEMICAL VALUES & ROCK SAMPLE DESCRIPTIONS

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION:MITZI

CODE : 8909-017

Project No. :285 Sheet:1 of 11 Date rec'd:AUG.31
Material :563 SOILS Geol.:G.Mc. Date compl:SEP.08
Remarks :

Values in PPM, except where noted.

T.T. No.	SAMPLE No.	Cu	PPB Au
2	76000E-79000N	16	5
3	79025	16	5
4	79075	8	5
5	79100	156	5
6	79125	42	5
7	79150	44	5
8	79175	16	5
9	79200	52	5
10	79225	16	5
11	79250	28	5
12	79275	34	5
13	79325	34	5
14	79350	22	5
15	79375	24	5
16	79425	32	5
17	79450	42	5
18	79475	202	5
19	79525	18	5
20	79550	22	5
21	79600	16	5
22	79625	20	5
23	79650	36	5
24	79675	142	5
25	79700	48	5
26	79725	26	5
27	79750	72	5
28	80025	42	5
29	80050	88	5
30	80100	30	5
31	80125	30	5
32	80150	124	5
33	80175	78	5
34	80200	64	5
35	80225	52	5
36	80250	120	5
37	80275	70	5
38	80350	32	5
39	80400	34	5
40	80425	24	5
41	80500	38	5
42	80525	40	5
43	80550	34	5
44	80575	22	5
45	80600	18	5
46	80650	28	65
47	80675	38	5
48	80725	26	5
49	76000E-80750N	24	5

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T.T. No.	SAMPLE No.	PPB Cu	PPB Au	8909-017 Pg. 2 of 11
50	76000E-80800N	32	5	
51	76200E-79000N	30	5	
52	79100	42	5	
53	79150	28	5	
54	79200	16	5	
55	79250	76	5	
56	79300	54	5	
57	79350	38	5	
58	79400	82	5	
59	79450	44	5	
60	79500	28	5	
61	79550	32	5	
62	79600	38	5	
63	79650	160	5	
64	79700	70	5	
65	79750	76	5	
66	79850	58	5	
67	80050	450	5	
68	80300	96	5	
69	80350	450	5	
70	80450	24	5	
71	80550	22	5	
72	80600	28	5	
73	80650	24	5	
74	80700	30	5	
75	80750	24	5	
76	80800	20	5	
77	80850	44	5	
78	80950	22	5	
79	81050	12	5	
80	76200E-81100N	32	5	
81	76400E-79000N	28	5	
82	79125	80	5	
83	79150	146	5	
84	79175	22	5	
85	79225	44	5	
86	79250	22	5	
87	79275	28	50	
88	79300	16	5	
89	79325	42	5	
90	79350	106	5	
91	79375	70	5	
92	79400	30	5	
93	79425	40	5	
94	79450	114	5	
95	79475	26	5	
96	79500	40	5	
97	79525	88	5	
98	79575	16	5	
99	79600	56	5	
100	CHECK NL-6	56	-	
101	79625	36	10	
102	79650	22	5	
103	79675	28	5	
104	79700	36	5	
105	79725	108	5	
106	76400E-79750N	32	5	

T.T. No.	SAMPLE No.	Cu	PPB Au
107	76400E-79775N	44	5
108	79800	60	5
109	79825	32	5
110	79850	38	5
111	79875	54	5
112	79900	44	5
113	79925	62	5
114	79950	50	5
115	79975	38	5
116	80000	106	5
117	80025	102	5
118	80050	28	5
119	80075	74	100
120	80100	70	5
121	80125	32	5
122	80150	48	5
123	80175	280	5
124	80350	232	5
125	80375	46	5
126	80400	68	5
127	80525	44	5
128	80575	34	5
129	80625	16	5
130	80650	16	5
131	80675	28	5
132	80750	34	5
133	80775	18	5
134	80800	32	5
135	80825	30	5
136	80850	24	5
137	80875	18	5
138	80900	32	5
139	80950	30	5
140	80975	20	5
141	81000	34	5
142	81025	32	5
143	81050	36	5
144	81075	118	5
145	81150	8	5
146	81175	26	5
147	76400E-81200N	16	5
2	76000E-79775N	24	5
3	79800	30	5
4	79825	36	5
5	79850	94	5
6	79900	96	5
7	79925	70	5
8	79950	4000	5
9	76000E-79975N	82	5
10	76600E-79000N	42	20
11	79100	90	5
12	79150	100	10
13	79200	96	5
14	79250	64	5
15	79300	36	5
16	79350	46	5
17	76600E-79400N	86	5

T.T. No.	SAMPLE No.	PPB Cu	PPB Au
[illegible]	76600E-79450N	44	5
[illegible]9	79500	22	5
20	79550	74	15
21	79600	52	5
22	79650	90	5
23	79700	56	5
24	79750	38	90
25	79800	70	5
26	79850	38	5
27	79900	128	5
28	79950	18	5
29	80000	380	5
30	80050	64	5
31	80100	30	5
32	80150	144	5
33	80200	40	5
34	80250	16	5
35	80300	70	5
36	80350	26	5
37	80400	320	5
38	80450	120	5
39	80500	400	5
40	80550	64	35
41	80600	340	5
42	80650	48	5
43	80700	18	5
[illegible]4	80750	38	5
45	80800	56	5
46	80850	18	5
47	80900	28	5
48	81050	20	5
49	81100	62	5
50	81150	84	20
51	76600E-81300N	50	5
52	76800E-79050N	42	5
53	79075	34	5
54	79100	142	5
55	79125	28	5
56	79150	60	5
57	79200	34	5
58	79225	88	5
59	79250	64	5
60	79300	152	5
61	79325	150	5
62	79350	68	5
63	79375	50	5
64	79400	26	5
65	79425	31	5
66	79450	54	5
67	79475	60	5
68	79525	30	5
[illegible]9	79550	46	5
[illegible]0	79575	40	5
71	79600	52	5
72	79625	24	5
73	79650	42	5
74	76800E-79675N	72	5

T.T. No.	SAMPLE No.	PPB Cu	PPB Au	8909-017 Pg. 5 of 11
[illegible]5	76800E-79725N	24	5	
76	79750	36	5	
77	79775	34	5	
78	79800	80	5	
79	79825	90	5	
80	79850	138	5	
81	79875	38	5	
82	79900	60	5	
83	79925	82	5	
84	79975	126	5	
85	80100	30	5	
86	80125	44	5	
87	80175	56	5	
88	80275	72	5	
89	80425	218	5	
90	80450	234	5	
91	80525	52	5	
92	80625	54	5	
93	80700	108	5	
94	80725	490	5	
95	80750	410	5	
96	80775	330	5	
97	80850	156	5	
98	80875	250	5	
99	80900	32	5	
100	CHECK NL-6	54	-	
[illegible]1	80925	24	5	
102	81100	66	5	
103	81125	112	15	
104	81150	550	5	
105	81225	1170	10	
106	81250	52	10	
107	81275	46	10	
108	81300	44	35	
109	81350	18	5	
110	76800E-81375N	16	35	
111	77000E-79000N	52	5	
112	79100	48	5	
113	79150	48	5	
114	79400	90	5	
115	79450	22	5	
116	79500	60	5	
117	79550	52	5	
118	79700	52	5	
119	79750	42	5	
120	79800	44	5	
121	79850	40	5	
122	79900	70	5	
123	80000	44	5	
124	80100	148	5	
125	80200	40	5	
[illegible]26	80500	42	5	
[illegible]27	80700	72	5	
128	80800	38	5	
129	80850	42	5	
130	80900	20	5	
131	77000E-81000N	28	5	

T.T. No.	SAMPLE No.	PPB Cu	PPB Au
132	77000E-81150N	24	5
133	81200	116	5
134	81250	42	5
135	77000E-81400N	86	5
136	77200E-79075N	84	5
137	79125	28	5
138	79150	56	5
139	79175	40	5
140	79200	48	5
141	79225	72	5
142	79250	146	5
143	79275	94	5
144	79300	34	5
145	79325	70	5
146	79400	44	5
147	79450	52	5
148	79475	58	5
149	79500	80	5
2	79525	216	5
3	79550	72	5
4	79575	34	5
5	79700	52	5
6	79775	90	5
7	79800	96	5
8	79825	20	5
9	79925	86	5
10	79950	34	5
11	80000	58	5
12	80025	70	5
13	80075	38	5
14	80100	28	40
15	80125	1600	5
16	80150	64	5
17	80175	74	5
18	80200	36	5
19	80025	30	5
20	80250	36	5
21	80300	28	5
22	80425	102	5
23	80600	720	5
24	80700	34	5
25	80725	36	5
26	80750	68	5
27	80800	46	5
28	80825	50	5
29	80850	52	5
30	80875	62	5
31	80900	42	5
32	80925	58	5
33	80950	66	5
34	81150	76	5
35	81175	100	5
36	81200	28	5
37	81225	38	5
38	81150	88	5
39	81175	22	5
40	77200E-81300N	34	5

T.T. No.	SAMPLE No.	PPB Cu	PPB Au
41	77200E-81325N	8	5
42	81350	248	5
43	81475	158	5
44	81525	58	5
45	81550	50	5
46	81575	90	5
47	77200E-81600N	70	5
48	77400E-79000N	226	5
49	79050	180	5
50	79100	78	5
51	79150	72	5
52	79200	20	5
53	79250	32	5
54	79300	16	5
55	79350	56	5
56	79400	54	5
57	79450	134	5
58	79500	50	5
59	79550	42	5
60	79600	72	5
61	79650	66	5
62	79700	150	5
63	79750	58	5
64	79800	60	5
65	79850	102	5
66	79900	82	5
67	79950	52	5
68	80000	70	5
69	80050	50	5
70	80100	88	5
71	80150	72	5
72	80200	90	5
73	80250	38	5
74	80300	228	5
75	80400	78	5
76	80450	214	5
77	80500	44	5
78	80600	38	5
79	80650	250	5
80	80700	84	5
81	80750	16	5
82	80800	44	5
83	80850	26	5
84	80900	46	5
85	80950	26	5
86	81000	32	5
87	81150	74	5
88	81200	24	5
89	81250	32	5
90	81300	32	5
91	81350	26	5
92	81400	58	5
93	81450	52	5
94	77400E-81650N	40	5
95	77600E-79000N	32	5
96	79025	52	5
97	77600E-79050N	30	5

T.T. No.	SAMPLE No.	Cu	PPB Au
98	77600E-79075N	58	5
99	79100	102	5
100	CHECK NL-6	56	-
101	79125	38	5
102	79150	146	5
103	79175	28	5
104	79200	30	5
105	79225	82	5
106	79250	28	5
107	79275	60	5
108	79300	62	5
109	79325	14	5
110	79350	76	5
111	79375	28	5
112	79400	14	5
113	79425	20	5
114	79450	30	5
115	79475	28	5
116	79525	770	5
117	79600	310	5
118	79650	26	5
119	79700	30	5
120	79725	198	5
121	79800	54	5
122	79825	44	5
123	79850	60	5
124	79875	48	5
125	79975	82	5
126	80050	66	5
127	80075	28	5
128	80200	130	5
129	80225	54	5
130	80275	120	5
131	80425	64	5
132	80450	72	5
133	80475	66	5
134	80750	38	5
135	80775	68	5
136	80800	28	5
137	80850	24	5
138	80875	76	5
139	80900	34	5
140	80925	50	5
141	80950	68	5
142	80975	36	5
143	81025	30	5
144	81100	34	50
145	81125	146	5
146	81175	22	5
147	81350	32	5
148	81375	88	5
149	77600E-81400N	22	35
2	77800E-79000N	64	5
3	79050	86	5
4	79100	64	5
5	79150	36	5
6	77800E-79200N	40	5

T.T. No.	SAMPLE No.	PPB Cu	PPB Au
7	77800E-79250N	94	15
8	79300	16	5
9	79350	26	5
10	79400	90	5
11	79450	82	5
12	79500	36	5
13	79550	74	5
14	79600	146	5
15	79650	48	5
16	79700	84	5
17	79750	64	5
18	79800	48	5
19	79850	40	5
20	79900	66	5
21	79950	86	5
22	80000	62	5
23	80050	108	5
24	80150	32	5
25	80400	80	5
26	80550	128	5
27	80600	26	5
28	80650	56	5
29	80850	52	5
30	80900	22	5
31	80950	54	5
32	81000	52	5
33	81100	40	5
34	81150	88	5
35	81350	26	5
36	81550	38	5
37	77800E-81700N	50	5
38	78000E-79000N	58	5
39	79025	22	5
40	79075	42	5
41	79100	42	5
42	79125	50	35
43	79150	16	5
44	79175	40	5
45	79200	24	5
46	79250	28	5
47	79275	26	5
48	79300	54	5
49	79350	32	5
50	79375	40	5
51	79400	34	5
52	79425	34	5
53	79450	22	5
54	79475	136	30
55	79500	184	10
56	79525	26	15
57	79775	28	5
58	79825	28	5
59	79850	48	5
60	79925	44	5
61	78000E-79950N	68	5
62	78200E-79000N	30	5
63	78200E-79050N	40	5

T.T. No.	SAMPLE No.	Cu	PPB Au
64	78200E-79150N	30	5
65	79200	32	5
66	79250	32	5
67	79300	52	5
68	79350	16	5
69	79450	36	5
70	79550	60	5
71	79600	12	5
72	79650	28	5
73	79800	30	5
74	79950	44	5
75	78200E-80000N	176	5
76	78600E-80000N	38	5
77	80050	32	5
78	80100	26	5
79	80150	24	5
80	80200	90	5
81	80250	64	5
82	80300	58	5
83	80350	64	5
84	80400	300	5
85	80450	92	45
86	80500	34	5
87	80550	38	10
88	80600	120	120
89	80650	14	5
90	80850	32	5
91	80900	172	5
92	80950	26	5
93	81000	98	5
94	81050	66	5
95	81100	50	10
96	81250	74	5
97	81400	50	5
98	81450	340	5
99	81600	400	10
100	CHECK NL-6	54	-
101	81650	122	5
102	78600E-81750N	330	5
103	79000E-80050N	70	5
104	80150	186	5
105	80200	26	5
106	80400	28	5
107	80450	56	5
108	80500	36	5
109	80550	32	5
110	80600	34	5
111	80650	70	5
112	80750	120	5
113	80850	252	5
114	81000	16	5
115	81100	18	5
116	81150	50	5
117	81200	80	5
118	81250	24	5
119	81300	26	5
120	79000E-81350N	28	5

T.T. No.	SAMPLE No.	PPB Cu	PPB Au
121	79000E-81400N	28	5
122	81550	16	5
123	81600	14	5
124	81650	26	5
125	79000E-81750N	62	5

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION:MITZI

CODE : 8908-065

Project No. :285 Sheet:1 of 8 Date rec'd:AUG17
Material :407 SOILS Geol.:T.C. Date compl:SEP01
Remarks :

Values in PPM, except where noted.

T.T. No.	SAMPLE No.	Cu	PPB Au
61	78000E-80000N	172	5
62	80025	46	5
63	80050	98	5
64	80100	40	5
65	80125	42	5
66	80150	88	5
67	80200	74	40
68	80225	400	5
69	80250	114	5
70	80275	236	5
71	80300	42	5
72	80325	30	5
73	80350	30	5
74	80375	40	5
75	80400	134	5
76	80425	50	5
[illegible]	80475	18	5
[illegible]	80500	68	5
79	80525	164	5
80	80575	132	5
81	80600	108	5
82	80675	116	5
83	80700	220	5
84	80750	36	5
85	80800	36	5
86	80825	66	5
87	80850	20	5
88	80875	26	5
89	80900	46	5
90	80925	174	10
91	80950	92	5
92	81050	24	5
93	81075	22	5
94	81100	28	5
95	81125	22	5
96	81175	44	5
97	81225	42	5
98	81250	38	5
99	81350	68	5
100	CHECK NL-6	52	-
101	81375	24	5
102	81400	22	5
[illegible]	81475	34	5
104	81500	42	5
105	78000E-81625N	26	5
106	78400E-79000N	22	5
107	79025	28	5
108	78400E-79050N	32	5

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T.T. No.	SAMPLE No.	PPB Cu	PPB Au
[illegible]	78400E-79075N	32	5
110	79100	72	5
111	78400E-79125N	28	5
112	78200E-80000N	224	5
113	80050	30	5
114	80100	70	5
115	80150	20	5
116	80200	30	5
117	80250	32	5
118	81050	36	5
119	81100	46	5
120	81150	32	5
121	80400	70	5
122	80450	32	5
123	80500	98	5
124	80900	34	5
125	80950	74	5
126	81200	28	5
127	81350	38	5
128	81500	2100	5
129	81550	60	5
130	81600	38	5
131	78200E-81650N	640	5
132	78400E-79150N	82	5
133	79175	52	5
[illegible]	79225	36	5
[illegible]	79250	36	5
136	79275	52	5
137	79300	38	5
138	79325	26	5
139	79375	18	5
140	79425	46	5
141	79450	124	5
142	79475	154	5
143	79500	122	5
144	79525	52	5
145	79550	72	5
146	79575	50	5
147	79600	24	5
148	79625	42	5
149	79650	94	5
2	79675	24	5
3	79700	66	5
4	79725	36	20
5	79750	42	5
6	79775	48	5
7	79800	26	5
8	79825	40	5
9	79850	340	5
10	79900	28	5
[illegible]	79925	26	5
[illegible]	79950	58	5
13	79975	68	5
14	80000	34	5
15	80025	54	5
16	80050	40	5
17	78400E-80075N	28	5

T.T. No.	SAMPLE No.	Cu	PPB Au
	78400E-80100N	58	5
19	80125	200	20
20	80150	144	5
21	80200	106	5
22	80250	44	5
23	80275	16	5
24	80300	28	5
25	80375	74	5
26	80425	172	25
27	80450	56	5
28	80525	64	5
29	80550	20	5
30	80650	50	5
31	80675	28	5
32	80725	48	5
33	80750	50	5
34	80800	62	5
35	80825	94	5
36	80850	54	5
37	80875	42	5
38	80900	48	5
39	80925	108	5
40	80950	50	5
41	80975	56	5
42	81100	40	5
	81200	88	5
	81225	28	5
45	81250	28	5
46	81375	92	5
47	81425	270	5
48	81450	162	5
49	81525	72	5
50	81550	182	5
51	81575	30	5
52	81600	104	5
53	81675	18	70
54	81700	24	5
55	81725	42	5
56	78400E-81750N	48	5
57	78600E-79000N	28	5
58	79050	74	5
59	79100	26	5
60	79150	20	5
61	79200	18	5
62	79300	28	5
63	79400	26	5
64	79450	20	5
65	79500	54	5
66	79550	252	5
67	79600	74	5
	79700	350	110
	79750	54	40
70	79800	68	5
71	79850	30	5
72	79900	56	5
73	78600E-79950N	28	5
74	78800E-79000N	26	5

T.T. No.	SAMPLE No.	PPB Cu	PPB Au
[illegible]	78800E-79025N	54	5
76	79075	34	5
77	79100	58	5
78	79125	56	5
79	79175	34	5
80	79200	62	5
81	79225	88	5
82	79250	62	5
83	79275	82	5
84	79300	38	5
85	79400	12	50
86	79425	36	5
87	79450	20	20
88	79475	24	5
89	79500	26	5
90	79525	18	5
91	79550	36	5
92	79575	34	5
93	79600	54	5
94	79625	44	5
95	79650	78	5
96	79675	46	5
97	79700	40	5
98	79750	58	5
99	79800	26	5
[illegible]	CHECK NL-6	52	-
[illegible]	79825	46	5
102	79875	24	5
103	79900	50	5
104	79925	30	5
105	79950	20	5
106	79975	94	5
107	80000	30	5
108	80025	120	5
109	80050	30	5
110	80075	110	5
111	80100	188	5
112	80150	232	5
113	80175	400	5
114	80300	48	5
115	80325	44	5
116	80375	84	5
117	80400	64	5
118	80425	60	5
119	80450	46	5
120	80500	44	5
121	80550	26	5
122	80575	1700	5
123	80650	52	5
124	80825	74	5
125	80850	58	5
[illegible]	80900	42	5
127	80925	40	5
128	80975	46	5
129	81000	18	5
130	81025	22	5
131	78800E-81050N	24	5

T.T. No.	SAMPLE No.	ppB Cu	ppB Au
1	78800E-81075N	56	5
133	81100	48	5
134	81200	16	5
135	81225	24	5
136	81250	38	5
137	81275	16	5
138	81300	36	5
139	81475	206	5
140	81550	24	5
141	81575	22	5
142	81600	12	5
143	81650	10	5
144	81675	18	5
145	81700	22	5
146	78800E-81725N	52	5
147	79200E-80000N	34	5
148	80025	54	5
149	80050	72	30
2	80075	70	5
3	80100	134	5
4	80125	58	5
5	80150	82	5
6	80175	62	5
7	80200	42	5
8	80275	50	5
9	80300	28	5
10	80325	56	5
11	80350	54	5
12	80425	38	5
13	80475	46	5
14	80500	48	5
15	80525	46	5
16	80550	28	5
17	80575	28	5
18	80600	62	5
19	80625	54	5
20	80650	34	5
21	80950	16	5
22	81050	28	5
23	81075	16	5
24	81175	16	5
25	81200	24	5
26	81225	28	5
27	81250	32	5
28	81275	20	5
29	81325	36	5
30	81350	24	5
31	81400	14	5
32	81425	28	5
33	81500	30	5
34	81675	44	5
35	81700	22	5
36	81750	54	5
37	79200E-81775N	20	5
38	79600E-80025N	40	5
39	80050	14	5
40	79600E-80075N	16	5

T.T. No.	SAMPLE No.	Cu	PPB Au
[illegible]	79600E-80100N	34	5
42	80125	34	5
43	80150	40	5
44	80200	220	5
45	80225	30	5
46	80250	84	5
47	80275	40	5
48	80325	58	5
49	80350	76	5
50	80400	48	5
51	80425	46	5
52	80525	32	5
53	80550	230	5
54	80575	32	5
55	80600	36	5
56	80625	80	5
57	80650	22	5
58	80675	34	5
59	80700	56	5
60	80725	52	5
61	80750	40	5
62	80825	162	5
63	80850	44	5
64	80875	22	5
65	80900	44	5
[illegible]	80975	58	5
[illegible]	81000	26	5
68	81025	18	5
69	81050	16	5
70	81075	24	25
71	81100	16	5
72	81125	18	20
73	81150	20	5
74	81200	14	5
75	81225	42	5
76	81300	36	20
77	81325	30	5
78	81350	18	5
79	81375	36	5
80	81400	18	5
81	81425	22	5
82	81475	146	5
83	79600E-81500N	38	5
84	79800E-80000N	52	5
85	80050	26	10
86	80100	24	15
87	80150	44	5
88	80200	38	5
89	80300	32	5
90	80400	30	5
91	80450	30	5
[illegible]	80500	50	20
93	80550	50	5
94	80600	70	10
95	80650	46	10
96	80700	44	350
97	79800E-80750N	50	5

T.T. No.	SAMPLE No.	PPB Cu	PPB Au	8908-065 Pg. 7 of 8
[redacted]	79800E-80800N	14	5	
99	80850	34	5	
100	CHECK NL-6	54	-	
101	80900	42	5	
102	80950	16	5	
103	81100	22	5	
104	81150	34	5	
105	81200	36	5	
106	81250	24	5	
107	81300	28	5	
108	81350	10	5	
109	81400	16	5	
110	81450	32	5	
111	79800E-81500N	86	5	
112	80000E-80000N	38	5	
113	80025	50	5	
114	80050	34	5	
115	80075	94	5	
116	80100	32	5	
117	80125	38	5	
118	80175	52	5	
119	80200	44	30	
120	80275	52	5	
121	80350	62	5	
122	80375	80	5	
[redacted]	80400	24	5	
[redacted]	80425	32	5	
125	80450	74	5	
126	80475	54	5	
127	80500	38	5	
128	80525	30	5	
129	80650	48	5	
130	80675	94	5	
131	80700	72	5	
132	80725	28	5	
133	80750	32	5	
134	80775	30	5	
135	80800	64	5	
136	80825	30	5	
137	80850	18	5	
138	80875	32	5	
139	80900	54	15	
140	80925	20	5	
141	80975	24	5	
142	81000	38	20	
143	81025	34	5	
144	81050	28	5	
145	81075	18	5	
146	81100	34	5	
147	81125	12	5	
[redacted]	81150	34	5	
[redacted]	81175	48	5	
151	81200	50	5	
152	81225	24	50	
153	81250	24	5	
154	81275	28	5	
155	80000E-81300N	22	5	

T.T. No.	SAMPLE No.	PPB Cu	PPB Au
156	80000E-81325N	34	5
157	81350	36	5
158	81375	26	5
159	81400	32	5
160	81425	40	5
161	81450	22	5
162	81675	30	5
163	81700	30	5
164	81725	18	5
165	81750	18	5
166	[illegible]	[illegible]	[illegible]
167	[illegible]	[illegible]	[illegible]
168	[illegible]	[illegible]	[illegible]
169	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]
171	[illegible]	[illegible]	[illegible]
172	[illegible]	[illegible]	[illegible]
173	[illegible]	[illegible]	[illegible]
174	[illegible]	[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]

Mitzi (Noranda) file

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 9 1989 DATE REPORT MAILED: Aug 17/89 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8908-043 283 File # 89-2782

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	AU* PPB
51926	1	142	9	53	.1	56	15	377	4.14	2	5	ND	2	49	1	2	2	103	2.15	.213	9	88	1.46	115	.24	3	3.04	.08	.97	1	10

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NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. _____

PROPERTY Miki

DATE Aug 1/84

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS							SAMPLED BY
51426	Altered porphyritic dacite pyritic - 1% pyrite <1% (Gm 70) 78200E 80330N Miki	O/c									G. McIsaac

Mitzi (JC) file

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-171

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 17 1989 DATE REPORT MAILED: Aug 22/89. SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8908-065 285 File # 89-2989

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
05445	1	331	7	27	.1	34	13	409	5.04	6	5	ND	1	49	1	2	2	82	3.88	.238	5	72	.45	96	.12	12	2.43	.04	.13	1	2
05446	1	111	6	13	.2	25	7	114	2.56	4	5	ND	2	29	1	3	2	30	.92	.118	6	56	.37	53	.13	16	.98	.04	.12	1	3
51827	1	472	5	51	.2	10	12	360	3.12	3	5	ND	1	24	1	2	2	20	2.36	.005	18	3	.15	29	.03	13	2.14	.06	.15	1	9
51828	1	95	4	22	.2	34	19	981	3.98	11	5	ND	1	19	1	2	2	34	4.39	.209	12	18	.16	2	.07	7	1.80	.01	.01	1	12
51829	1	258	5	43	.1	11	17	407	4.52	5	5	ND	2	15	1	2	2	71	1.23	.157	10	18	.68	49	.16	11	1.61	.03	.38	1	5
51830	1	1731	4	63	1.0	43	50	508	7.25	22	5	ND	1	20	1	4	2	53	3.01	.227	10	36	.43	1	.06	11	2.46	.02	.01	1	43
51831	1	702	5	48	.4	45	28	478	4.16	5	5	ND	1	38	1	3	2	32	2.43	.235	11	30	.40	10	.07	13	2.10	.04	.04	1	2
51832	1	2172	6	82	.9	52	35	840	4.93	10	5	ND	1	13	1	2	2	50	4.34	.220	12	25	.27	2	.08	9	2.17	.02	.01	1	17
51833	1	1587	3	81	.6	52	30	595	3.95	14	5	ND	1	40	1	2	2	39	3.35	.238	13	28	.54	13	.07	16	2.39	.04	.04	1	8
51834	1	295	6	75	.2	48	19	641	5.36	13	5	ND	1	10	1	4	2	135	1.24	.245	14	83	2.36	65	.27	2	2.30	.03	.88	1	4
51835	1	482	5	66	.2	54	21	392	4.93	2	5	ND	1	14	1	2	2	102	1.62	.260	14	72	1.32	86	.20	7	2.06	.03	.67	1	2
51836	1	190	2	52	.1	47	16	503	3.68	7	5	ND	1	42	1	2	2	63	2.68	.192	5	62	.89	17	.10	13	2.49	.04	.08	1	1
51837	1	1087	6	62	.6	49	12	357	2.49	6	5	ND	1	55	1	3	2	42	2.85	.233	11	36	.50	20	.08	17	2.36	.06	.06	1	40
51838	1	517	8	43	.2	39	19	356	4.19	6	5	ND	1	27	1	2	3	66	2.53	.248	12	51	.54	19	.12	10	2.24	.04	.09	1	4
51839	1	622	3	53	.2	40	18	411	4.98	7	5	ND	1	25	1	2	2	70	2.48	.241	12	57	.79	24	.13	6	2.29	.03	.20	1	17
51840	1	432	4	56	.1	47	18	336	4.56	5	5	ND	1	42	1	2	2	104	1.51	.248	13	73	1.22	75	.21	3	2.15	.05	.62	1	3
51841	1	3590	3	95	2.6	47	14	947	6.59	7	5	ND	1	17	1	2	2	57	3.36	.200	10	27	.28	2	.07	6	2.22	.01	.01	1	95
51842	1	1575	4	51	1.2	78	18	677	5.96	4	5	ND	1	26	1	2	2	59	2.84	.244	10	51	.69	2	.08	13	2.87	.02	.02	1	19
51843	1	2554	2	70	1.2	26	24	567	3.93	5	5	ND	1	26	1	2	2	55	6.55	.207	10	27	.18	1	.05	17	2.45	.01	.01	1	19
51844	1	641	8	65	.5	53	53	781	5.48	11	5	ND	1	19	1	2	2	44	2.90	.236	11	30	.70	1	.07	6	2.21	.03	.01	1	3
52998	1	166	8	42	.1	5	11	470	3.65	2	5	ND	5	31	1	2	2	74	1.19	.192	14	15	.93	20	.12	8	1.40	.03	.10	2	1
52300	2	396	6	31	.1	59	25	273	4.94	60	5	ND	1	61	1	2	2	54	2.56	.191	5	64	.42	10	.11	3	2.11	.33	.09	1	1
STD C/AU-R	18	63	42	133	6.8	74	31	958	4.10	42	22	7	37	48	19	15	19	59	.48	.093	39	55	.85	173	.07	36	2.01	.06	.13	12	490

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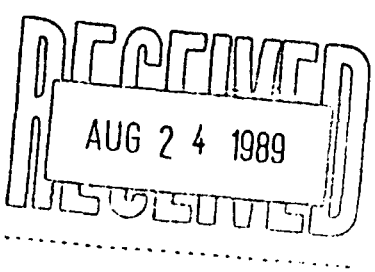


NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93N/1

PROPERTY Witze

DATE August 10/89

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS	SAMPLED BY
51827	Ted Taylor showing near claim line north bank of creek rock is composed mostly of fspars with hornblende crystals appears to be altered andesite trace amount of pyrrhotite	grab			TC
51828	T.T. showing near 51827 altered porphyritic andesite trace amount of pyrite and pyrrhotite 1'>>	grab			TC
51829	T.T. showing ~200m East of claim line N side of Cr. feldspar porphyry has been hornfelsed small amount of pyrrhotite associated with pale green .5-1.5mm stringers and disseminated throughout. 1-2% pyrrh	grab			SM

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93 N/1

PROPERTY Mitze DATE

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS							SAMPLED BY
51830	T.T. showing 4m SE of 51829 altered fspar porphry(?) with 1-2% pyrite and trace pyrrhotite	grab									SM
51831	T.T. showing 3m E of 51830 north side of creek. altered fspar porphry with fspar breaking down ? apparent flow texture with 1-2% pyrrhotite	grab									SM
51832	T.T. showing 2m west of claim line south bank of creek altered fspar porphry with 2-5% pyrrhotite.	grab									SM
51833	T T showing beside sample 51832 altered fspar porphry with 2-3% pyrrhotite	grab									SM

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93 N/1

PROPERTY Mitze

DATE Aug 10/89

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS	SAMPLED BY
51834	T.T. showing 3 m west of 51833 altered volcanic micro fractures with some qtz infilling 1% pyrite	grab	—		TC
51835	T.T. showing 3 m west of 51834 altered fspar porphyry with <1% pyrite disseminated	grab			TC
51836	T.T. showing 2.5 m west of 51835 on south side of creek knot light - med green altered fspar crystal porphyry. ~2% pyrrhotite	grab			TC
51837	T.T. showing ~ 1 m east of claim line on north side of creek. med - dark green altered fspar porphyry with 1-2% pyrrhotite 1% pyrite				TC

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93 N/1

PROPERTY Mitze

DATE Aug 10/87

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS							SAMPLED BY
51838	TT showing ~ 200m East of claim line N side of creek med-dark green altered fspar-porphyry with gossan surface. ~ 1-2% disseminated pyrite and pyrrhotite throughout sample										TC
51839	TT showing 2 m east of 51838 north side of creek med dark green altered fspar porphyry with trace amount of pyrite										TC
51840	T.T showing 6 m east of 51839, north side of creek. med. dark green andesite with a small amount of fellspar laths. exterior is stained 1-2% pyrite + pyrrhotite										TC

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93N/1

PROPERTY Mitze

DATE August 10/87

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS							SAMPLED BY
518411	T.T. showing ~ 230 m east of baseline Gossaud shear zone, altered med-dark green porphyric andesite with 1-2% disseminated pyrite and pyrrhotite	grab.									TC
518412	T.T. Showing ~ 20m east of claim line with side of creek med-dk green altered porphyric andesite with 1-2% pyrite (chalcopyrite(?)) and pyrrhotite.										SM
518413	T.T. showing same location as sample 518412 heavily gossaned altered volcanic 5% pyrite + pyrrhotite										TC
518414	TT Showing 2 m east of 518413 altered med - light green porphyry andesite 5-7% pyrite and pyrrhotite										SM

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93N11

PROPERTY Mitze

DATE August 11/89

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS							SAMPLED BY
52998	GM 71; 78600E, 79700N main grid altered fspar porphry. silicification through out and 1% pyrrhotite	grab	—								GM
52300	GM 70; 78200E, 80330N main grid altered feldspar porphry. silicified with <1% pyrrhotite.	grab talus	—								GM
05445	GM 81; 78400E, 79650N main grid medium-dark green Silicified fspar porphry with ~ 1% pyrrhotite	grab	—								GM
05446	GM 82; 78400E 79450N main grid altered porphrytic volcanic. silicified with < 1% pyrrhotite	grab talus	-								GM

Mitzi (GMC)

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 31 1989 DATE REPORT MAILED: Sept 6/89 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Noranda Exploration Co. Ltd. PROJECT 8909-017 285 File # 89-3378

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
49486	1	407	7	24	.5	46	18	385	5.19	12	10	ND	3	69	1	2	2	65	4.88	.182	8	66	.74	8	.17	14	2.90	.29	.07	1	26
49489	1	265	7	1978	.5	53	15	1539	4.51	12	5	ND	3	43	10	2	3	93	4.02	.202	10	61	1.54	46	.18	7	2.83	.07	.77	1	4
49490	1	484	15	66	.5	8	27	449	5.51	6	5	ND	3	42	1	2	2	71	2.67	.140	8	2	.28	41	.13	19	2.03	.03	.10	1	40
100698	1	153	13	105	.5	60	20	607	5.13	44	5	ND	2	43	1	2	2	118	1.12	.207	11	76	2.82	124	.24	4	3.42	.09	2.25	1	2
100699	4	931	6	67	.8	61	29	518	6.04	10	5	ND	3	44	1	2	3	87	3.38	.200	11	70	.90	29	.16	7	3.06	.10	.20	1	64
100700	1	912	9	57	.7	45	18	433	4.24	13	5	ND	2	30	1	2	2	65	2.99	.197	9	62	.71	13	.17	24	2.51	.04	.07	1	42
100750	1	162	5	44	.2	41	10	739	3.09	4	12	ND	2	39	1	2	2	94	6.62	.201	7	63	.72	13	.11	17	2.51	.02	.03	1	5
100752	1	297	11	27	.1	30	12	487	3.58	5	5	ND	2	28	1	2	2	64	4.65	.222	8	51	.65	6	.16	29	3.57	.03	.06	1	2
100753	2	1033	4	62	1.5	55	39	550	2.49	88	5	ND	2	30	1	2	2	77	3.19	.086	6	45	.53	30	.10	6	1.76	.03	.07	1	33
100754	1	59	10	28	.1	13	10	253	1.94	16	5	ND	2	65	1	2	2	69	2.48	.106	6	7	.29	36	.13	20	2.09	.11	.10	1	1
100755	1	75	6	21	.1	8	6	182	1.33	15	5	ND	2	45	1	2	2	36	1.98	.097	7	3	.24	48	.11	8	1.38	.05	.09	1	1
100756	25	98	8	60	.2	80	41	346	5.97	39	5	ND	1	55	1	2	2	145	1.37	.145	4	72	1.78	35	.18	6	2.54	.08	.08	1	4
108326	1	73	6	68	.2	32	8	512	4.57	17	5	ND	3	49	1	2	2	109	1.24	.208	10	73	2.10	140	.24	5	3.02	.12	1.78	1	3
108327	1	111	6	32	.2	45	12	329	2.55	4	5	ND	2	37	1	2	2	60	3.38	.212	9	47	.67	25	.13	17	2.43	.03	.11	1	4
108328	1	200	19	104	.3	48	15	429	4.08	6	5	ND	2	36	1	2	2	77	2.25	.209	8	65	1.52	54	.18	18	2.48	.13	.41	1	2
108329	1	179	7	66	.5	47	12	1333	4.83	2	7	ND	3	34	1	2	2	86	4.48	.209	10	71	1.18	66	.17	12	3.03	.02	.22	1	25
108330	1	49	17	97	.1	2	9	851	4.32	5	5	ND	1	27	1	2	2	93	1.60	.149	7	1	.96	28	.20	13	1.86	.04	.04	1	2
108331	1	118	8	25	.1	23	6	506	2.07	2	5	ND	2	23	1	2	2	53	4.52	.205	9	45	.81	8	.11	25	3.20	.03	.03	1	4
108332	3	630	4	40	.6	81	33	256	5.88	4	5	ND	3	33	1	2	2	56	1.38	.130	10	131	.80	28	.16	4	1.51	.05	.27	1	2
10833	1	2138	11	111	3.1	15	32	623	4.89	50	5	ND	1	42	2	2	2	168	3.23	.125	7	12	.50	72	.19	6	2.80	.03	.08	1	42

Copy to Gord.

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93 N/1

PROPERTY Mitze

DATE Aug 30/89

ROCK SAMPLE REPORT

PROJECT 285

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
100698	79792E, 79875N; main grid. silicified feldspar porphry with 3 % pyrrhotite	3	grab outcrop	—								CR
100699	79425E, 79700N; main grid. silicified feldspar porphry with 1-3% pyrrhotite	1-3	"	—								"
100700	79430E, 79725N; main grid. silicified feldspar porphry with 1-3% pyrrhotite		grab outcrop	—								"
107052	79500E, 79950N; main grid. silicified feldspar porphry with 1% pyrrhotite	1	grab outcrop	—								"

G - GEOCHEM A - ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93N/1

PROPERTY Mitze

DATE Aug 30/89

ROCK SAMPLE REPORT

PROJECT 285

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
108330	79000E, 79925N; main grid. augite porphry with minor chlorite alteration (?) with 1-2% pyrite and pyrrhotite.	1-2	outcrop grab	—								AJT
108331	79000E, 79825N; main grid. augite feldspar porphry with a minor amount of chlorite alteration (?) and 2-3% pyrite	2-3	"	—								"
108332	79400E, 80130N; main grid. augite feldspar porphry with a minor amount of chloritic alteration (?) and 3-5% pyrrhotite	3-5	outcrop grab	—								"
108333	77375E, 79970N; main grid. feldspar porphry andesite. abundant silicification with 1-2% chalcopyrite	1-2%	"	—								"

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93 N/1

PROPERTY Mitze

DATE Aug 30/89

ROCK SAMPLE REPORT

PROJECT 285

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
108326	79385E, 80,000N; main grid. altered augite feldspar porphry the sample is silicified and has <1 %. pyrite	<1	outcrop grab	—								AJT
108327	79200E, 79970N; main grid. altered feldspar porphry with some chloritic alteration and 2%. pyrrhotite	2	rubble	—								"
108328	79200E, 79900N; main grid. silicified porphry andesite with <1%. pyrite	<1	rubble	—								"
108329	79200E, 79375N; main grid. altered porphry andesite with 40% feldspars some potassic alteration and <1%. pyrite	<1	rubble	—								"

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93 N/1

PROPERTY mitze

DATE Aug 30/89

ROCK SAMPLE REPORT

PROJECT 285

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
107056	76210E, 80035N; main grid. feldspar hornblende porphry the sample is silicified and has some carbonate infilling in fractures 1-3% pyrrhotite and <1% pyrite	4	outcrop grab	—								C R
107055	79615N, 77810E; main grid. silicified feldspar porphry with 1% pyrrhotite and <1% pyrite	1-2	"	—								"
107054	77815E, 79590N; main grid. silicified feldspar porphry with 1% pyrrhotite and <1% pyrite	1-2	outcrop grab	—								"
100750	79795E, 79888N; main grid. silicified feldspar porphry. with ~5% pyrrhotite and <1% chalcopyrite	5	grab outcrop	—								"

G - GEOCHEM A - ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93N/1

PROPERTY Mitze

DATE Aug 30/89

ROCK SAMPLE REPORT

PROJECT 285

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
49490	78200E, 79775N; main grid silicified feldspar porphry with a trace amount of pyrrhotite	< 1%	outcrop grab	—								G Mc
49489	79000E, 80,000N; main grid. silicified feldspar porphry. rock is extremely altered.	—	outcrop grab	—								"
49488	78600E, 79700N; main grid. silicified feldspar porphry with approx. 1% pyrrhotite	1%	outcrop grab	—								"
107053	77830E, 79290N; main grid silicified feldspar porphry with <1% pyrite and <<1% chalcopyrite	<1	outcrop grab	—								CR

G = GEOCHEM A = ASSAY

WITCH LAKE

81,600N.
81,400N.
81,200N.
81,000N.
80,800N.
80,600N.
80,400N.
80,200N.
B/L. 80,000N. Az. 090°
79,800N.
79,600N.
79,400N.
79,200N.
79,000N.

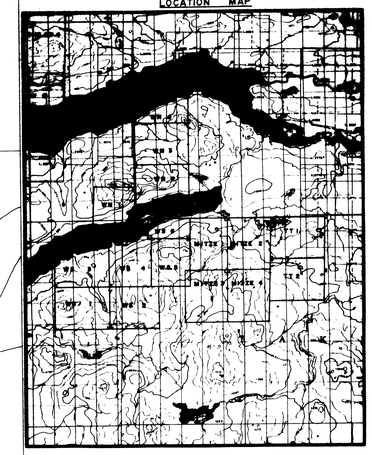
MITZE 1
MITZE 2
MITZE 3
MITZE 4

WS6
WS5
WS4
WS2

L. 75,800E.
L. 76,000E.
L. 76,200E.
L. 76,400E.
L. 76,600E.
L. 76,800E.
L. 77,000E.
L. 77,200E.
L. 77,400E.
L. 77,600E.
L. 77,800E.
L. 78,000E.
L. 78,200E.
L. 78,400E.
L. 78,600E.
L. 78,800E.
L. 79,000E.
L. 79,200E.
L. 79,400E.
L. 79,600E.
L. 79,800E.
L. 80,000E.

1000
1250

LOCATION MAP



SCALE 1 : 100,000

LEGEND

ROCK TYPES

- P_1 GABBRO
- I_2 DIORITE
- V_1 ANDESITE
- V_2 FELDSPAR PORPHYRITIC ANDESITE

ep	epidote	po	pyrrhotite
py	pyrite	sil	silicified
cp	chalcopyrite	alt	alteration
mal	malachite	por	porphyritic
		s/c	sub-outcrop

SYMBOLS

- Clearcut
- Road
- Stream
- Gossan
- Talus
- Outcrop large , small
- Float sample
- Joints
- Geological contact (definite , inferred , assumed)
- Strike and dip of bedding
- Rock sample site
- (H) Helipad

GEOLOGICAL BRANCH
ASSESSMENT REPORT

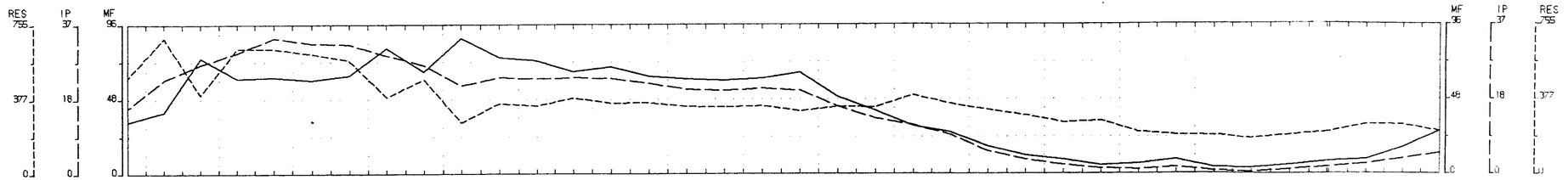
19,926

Map Sheet Index

2	1

0 100 200 300 400 500m
SCALE 1 5,000

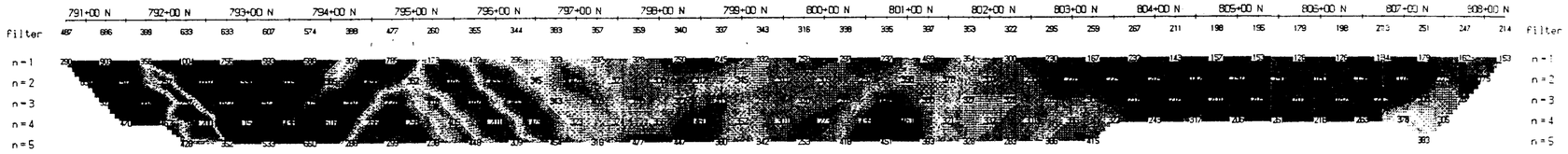
REVISED T.C. Mar , 1990	MITZE OPTION
	GEOLOGY MAP
PROJ. No.	SURVEY BY: T.C. , G.M. DATE: Aug. 1989
N.T.S. 93 N/1	DRAWN BY: S.K.B. SCALE: 1 5,000
DWG. No. 3	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE , B.C.



INTERPRETATION

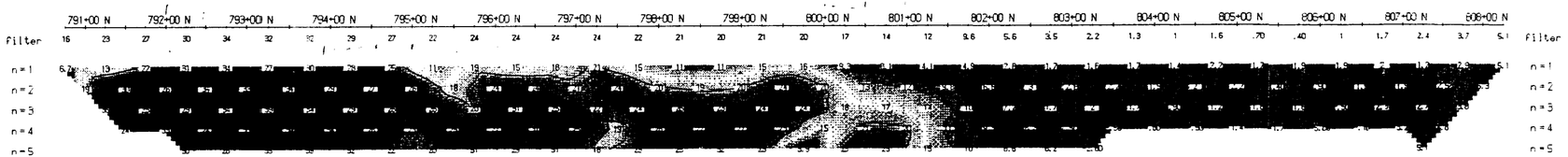
INTERPRETATION

RESISTIVITY (OHM_M)



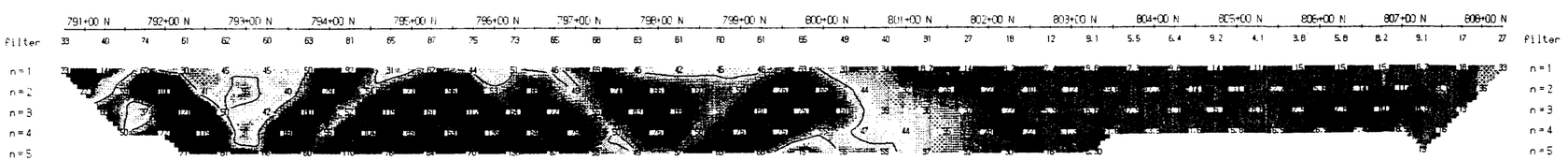
RESISTIVITY (OHM_M)

IP (mV/V)



IP (mV/V)

METAL FACTOR (IP/res * 1000)



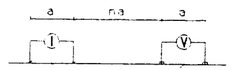
METAL FACTOR (IP/res * 1000)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,926

Line 80800 E

Dipole-Dipole Array



a = 50 M

pivot point

Filter

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

Strong increase in polarization

Moderate increase in polarization

Pronounced resistivity increase

Pronounced resistivity decrease

Scale 1:5000

50 0 50 100 150 200 250

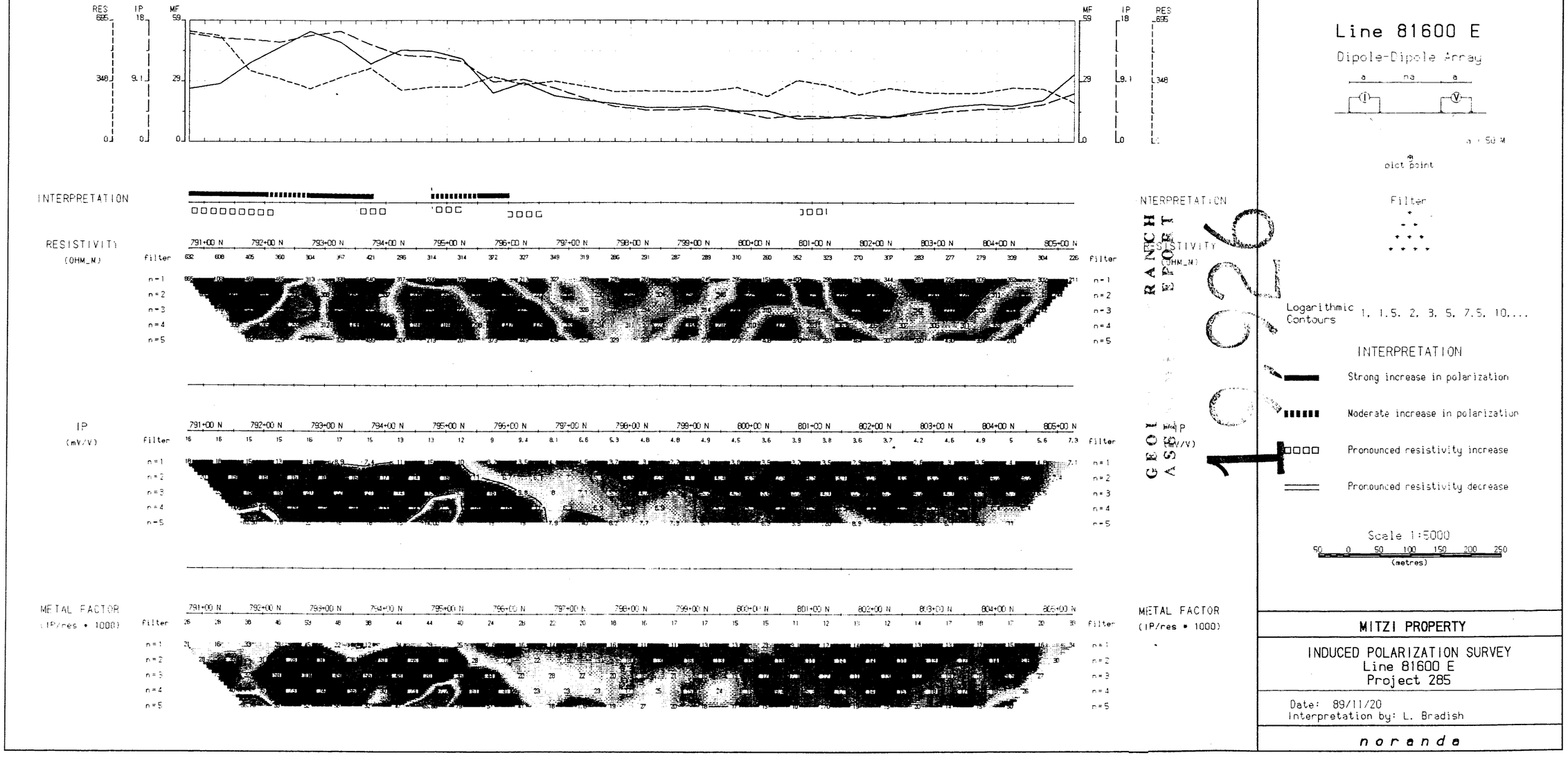
(metres)

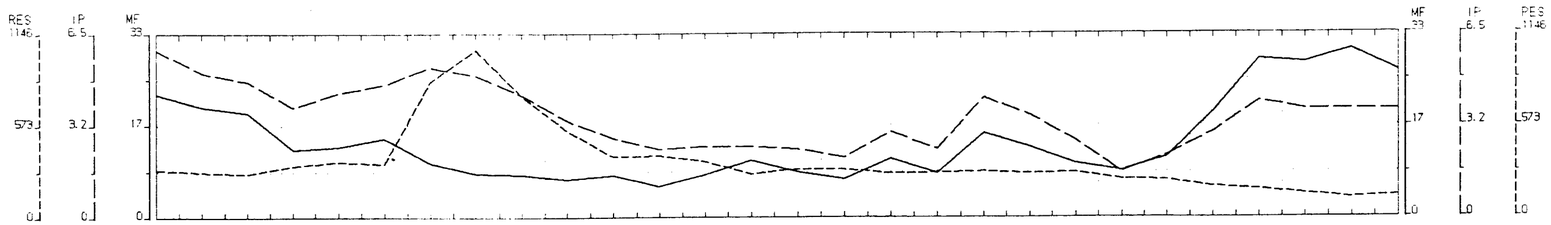
MITZI PROPERTY

INDUCED POLARIZATION SURVEY
Line 80800 E
Project 285

Date: 89/11/20
Interpretation by: L. Bradish

noranda

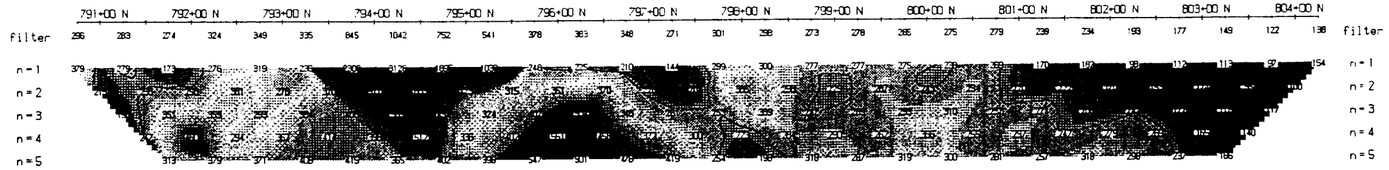




INTERPRETATION

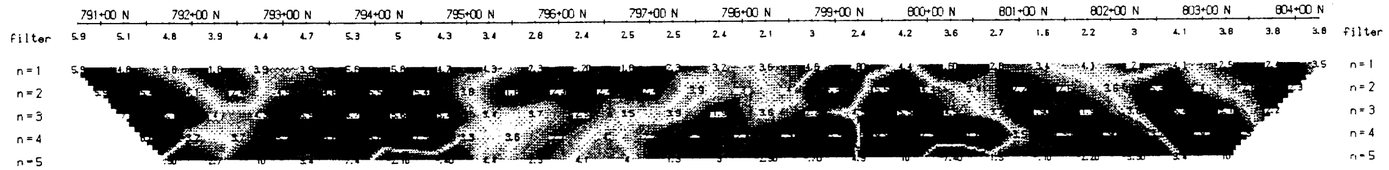
INTERPRETATION

RESISTIVITY
(OHM_M)



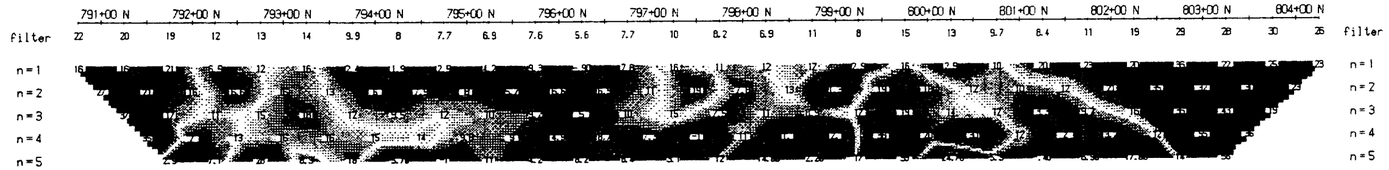
RESISTIVITY
(OHM_M)

IP
(mV/V)



IP
(mV/V)

METAL FACTOR
(IP/res * 1000)

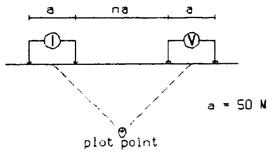


METAL FACTOR
(IP/res * 1000)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

Line 82400 E

Dipole-Dipole Array



Filter

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Pronounced resistivity increase
- Pronounced resistivity decrease

Scale 1:5000

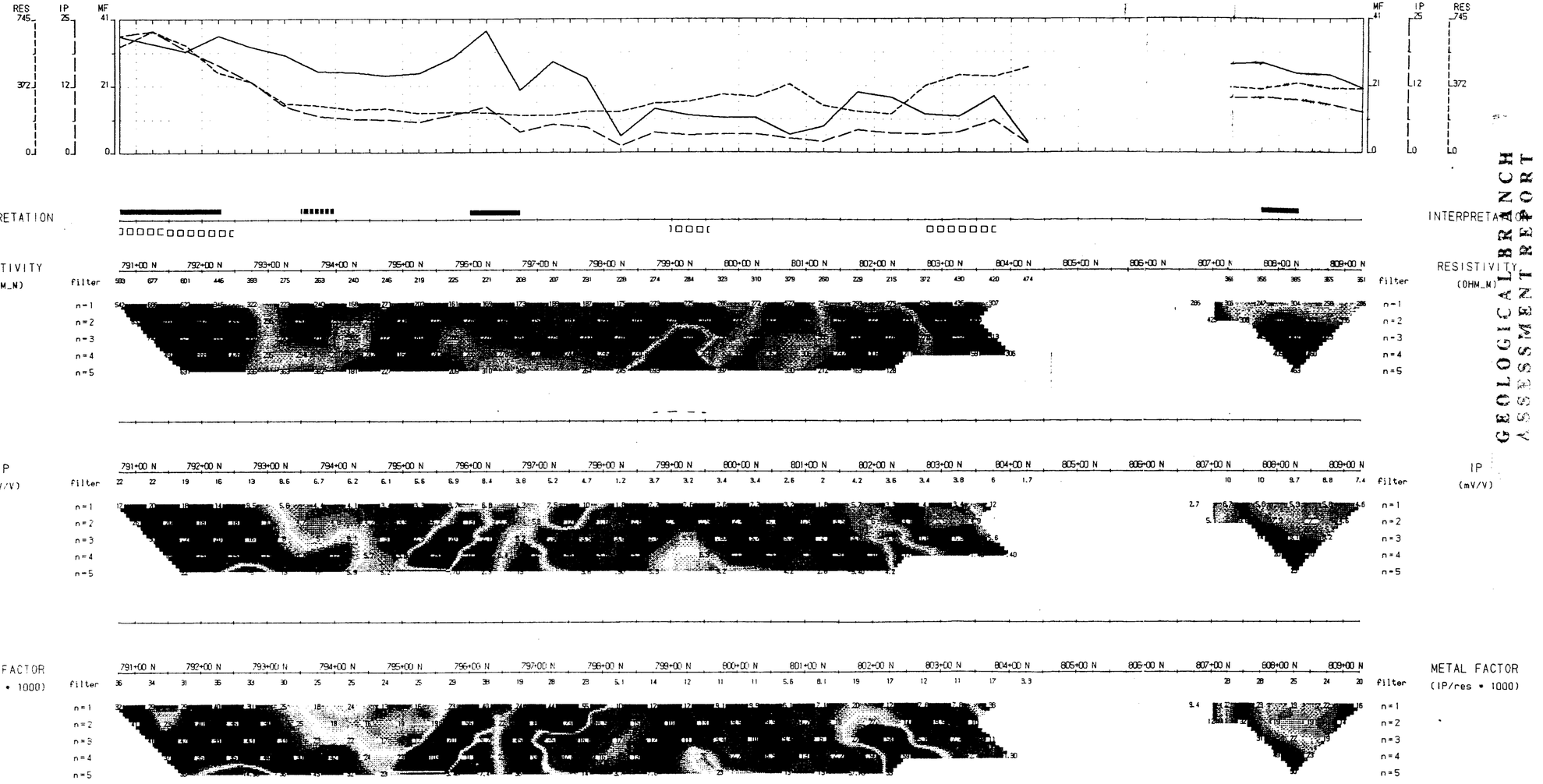
50 0 50 100 150 200 250
(metres)

MITZI PROPERTY

INDUCED POLARIZATION SURVEY
Line 82400 E
Project 285

Date: 89/11/20
Interpretation by: L. Bradish

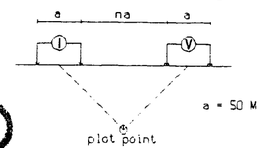
noranda



GEOLOGICAL BRANCH
ASSESSMENT REPORT

Line 83200 E

Dipole-Dipole Array



Filter

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Pronounced resistivity increase
- Pronounced resistivity decrease

Scale 1:5000

50 0 50 100 150 200 250
(metres)

MITZI PROPERTY

INDUCED POLARIZATION SURVEY
Line 83200 E

Date: 89/11/20
Interpretation by: L. Bradish

norando

WITCH LAKE

WS6

WS5

WS4

WS2

MITZE 1

MITZE 2

MITZE 3

MITZE 4

81600N

81400N

81200N

81000N

80800N

80600N

80400N

80200N

80000N BASELINE 90°

79800N

79600N

79400N

79200N

79000N

75800E

76000E

76200E

76400E

76600E

76800E

77000E

77200E

77400E

77600E

77800E

78000E

78200E

78400E

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78800E

79000E

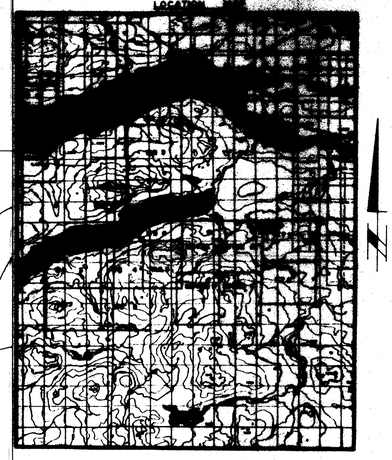
79200E

79400E

79600E

79800E

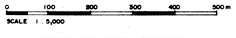
80000E



SCALE 1 : 100,000

LEGEND

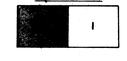
30 Soil Geochem Survey Au(ppb)



GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,926

Map Sheet Index



REVISED	MITZE OPTION
	SOIL GEOCHEM SURVEY Au(ppb)
PROJ. No. 290	SURVEY BY: B.C., R.C. DATE: June, 1989
N.T.S. 93N/1	DRAWN BY: B.K.B SCALE: 1:5,000
DWG. No. FIG. 4	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE, B.C.

WITCH LAKE

C-1

C-2

C-3

C-4

C-5

WS6

WS5

WS4

WS2

MITZE 1

MITZE 2

MITZE 3

MITZE 4

81600N

81400N

81200N

81000N

80800N

80600N

80400N

80200N

80000N BASELINE 90°

79800N

79600N

79400N

79200N

79000N

75800E 76000E 76200E 76400E 76600E 76800E 77000E 77200E 77400E 77600E 77800E 78000E 78200E 78400E 78600E 78800E 79000E 79200E 79400E 79600E 79800E 80000E

6,107,000 mN

1250

LOCATION MAP

SCALE 1 : 100,000

LEGEND

Soil Geochem Survey Cu (ppm)

≥ 100 ppm Cu Contour

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,926

Map Sheet Index

1

0 100 200 300 400 500 m
SCALE 1 : 5,000

REVISED	MITZE OPTION
	SOIL GEOCHEM SURVEY
	Cu (ppm)
PROJ. No. 285	SURVEY BY: B.C., R.C. DATE: June, 1989
N.T.S. 93 N/1	DRAWN BY: S.K.B. SCALE: 1:5,000
DWG. No. FIG. 5	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE, B.C.