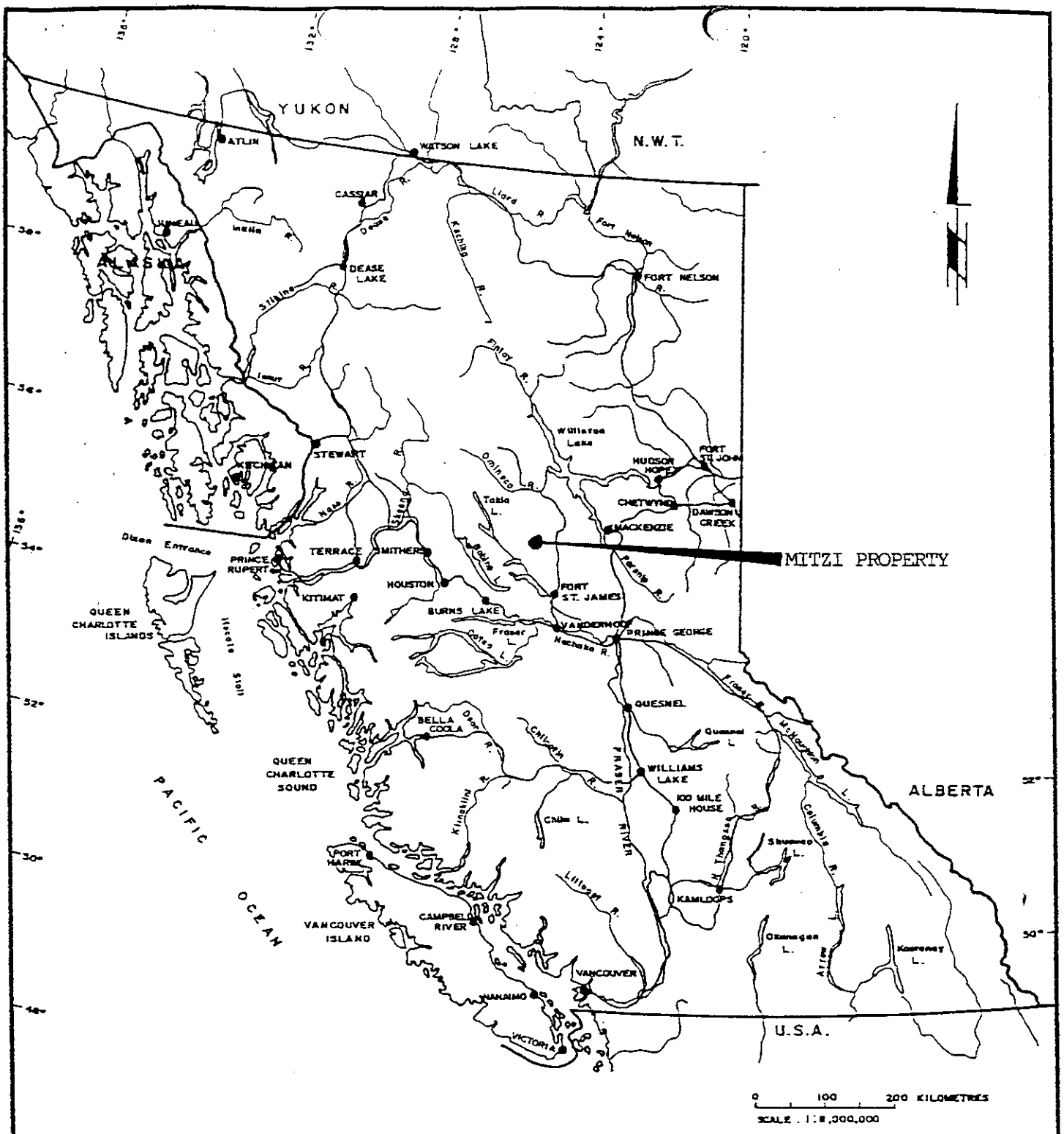
DIAMOND DRILLING REPORT ON THE TT1 AND CAS CLAIMS MITZI PROPERTY

OMINECA MINING DIVISION

N.T.S. 93N/01

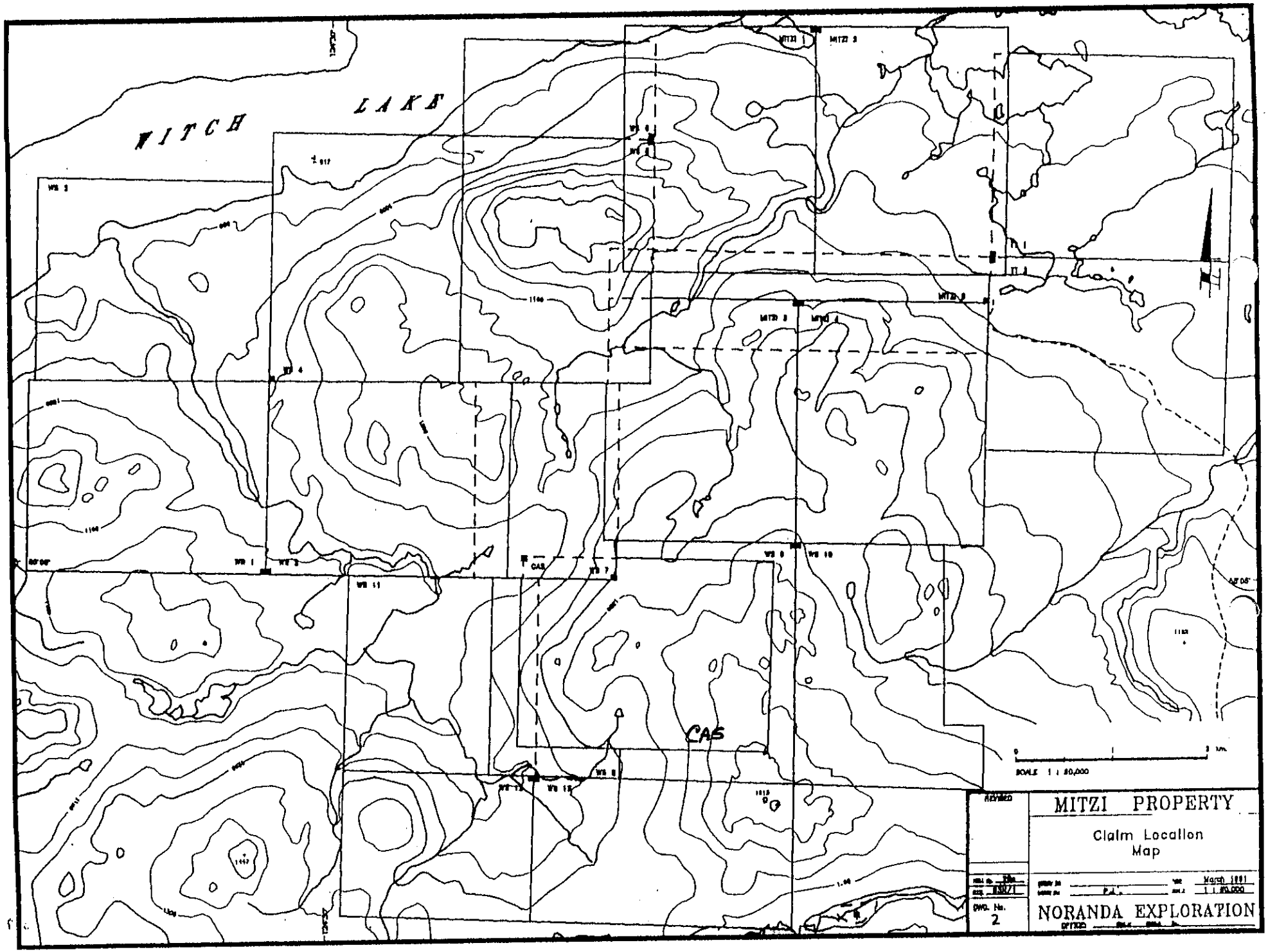
Latitude 55°06' Longitude 124°25'

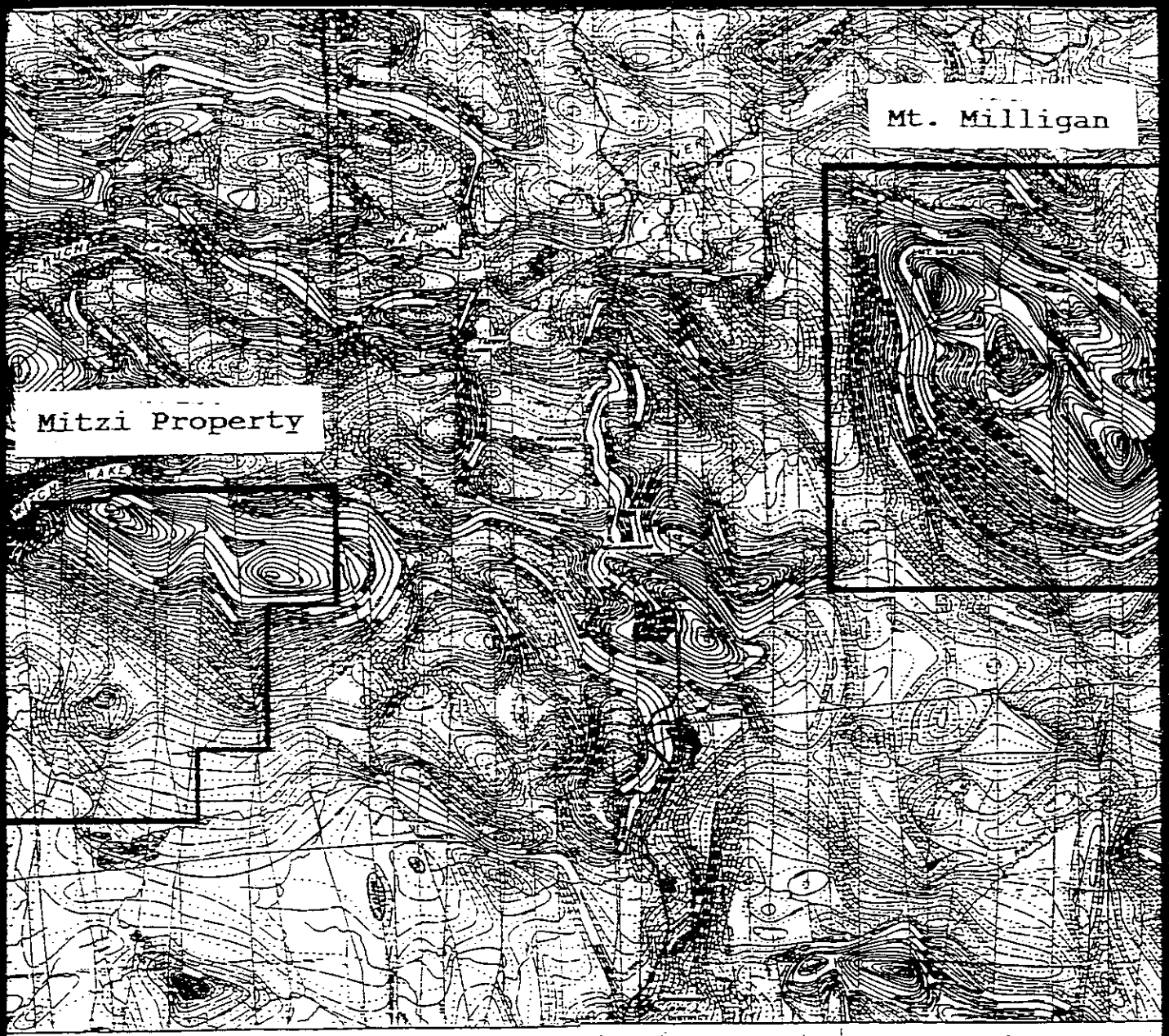
G. Robert Cluff
Noranda Exploration Company, Limited (No Personal Liability)
March, 1993



REVISED	
	LOCATION MAP
PROJ.No.	SURVEY BY: DATE:
N.T.S.	DRAWN BY: S.K.B. SCALE: 1 : 8,000,000
DWG. No. 1	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE, B.C.

VANCAL 11927


WITCH
LAKE
CAS
SCALE 1 : 50,000
REVISED
MITZI PROPERTY
Claim Location
Map
March 1991
DWG. No.
2
NORANDA EXPLORATION



N

0 5 10

Km

REVISED	Regional Airborne Magnetics
PROJ. No.	SURVEY BY: DATE: May 1991
N.T.S.	DRAWN BY: SCALE:
DWG. No. 3	NORANDA EXPLORATION
	OFFICE:

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SUMMARY

From mid January to mid February a 835 m, 8 hole drill program was completed by Cancor Diamond Drilling under Noranda personnel supervision. Five holes were drilled on the Main grid to follow up significant alteration and mineralization encountered in previous drilling in 1991. One hole tested the Taylor Creek Cu-Au skarn showing and the remaining two tested combined geochemical, magnetic and I.P. anomalies in the core and on the flanks of the Cas plug.

The holes drilled on the Main grid confirmed the presence of a large hornfels and skarn alteration zone around the main Witch Lake diorite-gabbro intrusive. Also, and of more economic significance, several holes intersected a younger monzodiorite plug within and about which potassic alteration hosts Cu and weak gold mineralization. The existence of this mineralized system around a small monzodiorite plug indicates good potential for other systems to the west where airborne and ground geophysics suggest similar sized bodies may be present.

The two holes on the Cas confirmed the presence of a zoned alkalic plug with associated copper bearing mineralization around which a large alteration halo is developed. Considering the size of the associated chargeability zone additional surface work appears warranted.

INTRODUCTION

The Mitzi 1-4 claims were optioned from Richard Haslinger during the winter of 1988-89. Noranda acquired the remainder of claim holdings between 1989 and 1991 by staking and option from Stanley Case.

Noranda's activities to date have focused on exploration for bulk tonnage Cu-Au porphyry deposits and higher grade Cu-Au skarn deposits. These efforts have included geological mapping, soil geochemistry, ground magnetics, IP surveys, Dighem IV airborne MAG-EM survey and diamond drilling. This years diamond drill programme focused on encouraging results from two holes drilled in 1991 and the largest of several airborne targets around which I.P., and magnetic anomalies were identified by ground work in late 1991.

LOCATION & ACCESS

The Mitzi property is located at the south eastern end of Witch Lake, approximately 180 km northwest of Prince George, B.C. (Figure 1).

Year round access to the property can be gained by helicopter out of Fort St. James. There are several helipads throughout the property. In the fall of 1990 a winter road was constructed from the west end of the Witch logging road to the Taylor Showing. Direct access to the drill camp can be gained by four wheel drive truck and to the Cas grid by snowmobile on drill access roads constructed this year.

CLAIM STATISTICS

Claim Name	Record #	Units	Record Date	Owner
Cas	11935	20	May 28, 1990	C.S. Case
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
Mitzi 5	243192	16	Mar. 9, 1991	Norex
Mitzi 6	13043	1	Mar. 15, 1991	Norex
Mitzi 7	13044	1	Mar. 15, 1991	Norex
Mitzi 8	13045	1	Mar. 15, 1991	Norex
Mitzi 9	13046	1	Mar. 15, 1991	Norex
Mitzi 10	13047	1	Mar. 15, 1991	Norex

Claim Name	Record #	Units	Record Date	Owner
Mitzi 11	13048	1	Mar. 15, 1991	Norex
Mitzi 12	13049	1	Mar. 15, 1991	Norex
Mitzi 13	13050	1	Mar. 15, 1991	Norex
TT 1	240338	20	Feb. 13, 1989	Norex
TT 2	240339	20	Feb. 13, 1989	Norex
TT 3	242999	20	Dec. 6, 1990	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
WS 7	11973	12	Jan. 28, 1990	Norex
WS 8	11974	12	Jan. 28, 1990	Norex
WS 9	11975	20	May 28, 1990	Norex
WS 10	11976	20	May 28, 1990	Norex
WS 11	12852	16	Dec. 2, 1990	Norex
WS 12	12851	12	Dec. 1, 1990	Norex
WS 13	12851	18	Dec. 1, 1990	Norex
Halo 1	243169	1	Feb. 21, 1991	Norex
Halo 2	243170	1	Feb. 21, 1991	Norex
Halo 3	243171	1	Feb. 21, 1991	Norex
Halo 4	243172	1	Feb. 21, 1991	Norex
Halo 5	243173	1	Feb. 21, 1991	Norex
Halo 6	243174	1	Feb. 21, 1991	Norex
Halo 7	243175	1	Feb. 21, 1991	Norex
Halo 8	243176	1	Feb. 21, 1991	Norex

TOPOGRAPHY & VEGETATION

The bulk of the area is characterized by moderate relief rounded hills with outcrop ridges and knobs and low swamp valleys. Elevations range from 917 metres at Witch Lake to 1300 metres. The NE quadrant of the property consists of low rolling glacial outwash, esker ridges, pine flats and swamp.

Vegetation consists of mature stands of spruce, pine and balsam. Undergrowth is mainly alders, willows and devil's club.

PREVIOUS WORK

pre 1960	Discovery of Ted Taylor showing.
1965-68	Ambassador Mines Ltd. of Vancouver, B.C., completed a soil grid, magnetometer and seismic survey in the area around the Ted Taylor showing.
1987	Staked by R. Haslinger.
1988	Placer Dome In. performed a recon. examination of the Ted Taylor showing. They collected 3 lines of soil samples and took a number of rock samples.
1989-91	Noranda Exploration performed soil geochemistry, geological mapping, prospecting, ground magnetics, induced polarization survey, airborne Mag-EM survey and ten diamond drill holes.

REGIONAL GEOLOGY

The area has most recently been described by J.E. Armstrong in G.S.C. Memoir 252, 1949, Fort St. James Map-area. The area is also covered by G.S.C. Map 97A by H.M.A. Rice, 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.

Recent exploration in the Quesnel Trough has focused on several bulk tonnage Cu-Au prospects. The most notable is the Mount Milligan project with published geological reserves of 386 million ton grading 0.21% Cu and 0.016 opt Au.

The Mt. Milligan Cu-Au zones and their associated monzonitic intrusives are situated on the flanks of a strong magnetic high which reflects an older more dioritic stock. The Mitzi property covers a similar large magnetic feature, shown by outcrop and drilling to be a series of gabbroic to dioritic intrusives with local flanking monzodiorite, syenite, monzodiorite plugs and dykes.

PROPERTY GEOLOGY

The dominant lithological unit encountered in outcrop and the 18 holes drilled to date consists of a thick sequence of feldspar and augite porphyritic trachy-andesite, andesite and trachyte flows with local fragmental equivalents which belong to the Witch Lake Formation of the Takla Group.

MINERALIZATION & ALTERATION

Surface work and diamond drilling has established the presence of extensive zones of hornfelsed and propylitic skarn and potassic altered volcanics, principally the trachy-andesite suite, along the south western flank of the main Witch Lake (Hogem) intrusives and the north west and south flanks of the "Cas" plug.

The propylitic alteration suite, typically consisting of pyrite enriched (2+% range) chlorite, carbonate $\pm$ epidote development and carbonate $\pm$ quartz sulphide veining, occurs distal (up to 2 km) from the intrusive. This is the dominant alteration in the trachy-andesite flows on the higher slopes of the Taylor Creek Valley.

The propylitic suite described above appear to proceed progressively into calc-silicate hornfels and garnet to pyroxene skarn. This skarn zone appears in outcrop on the lower slopes of the Taylor Creek Valley and as a wide zone along the southern flank of the main intrusives. Sulphide content commonly exceeds 5% in this zone and consists of pyrrhotite, pyrite, and chalcopyrite. Pyrrhotite dominates over pyrite (usually 2:1) and chalcopyrite occurs in trace amounts but locally can exceed 1% in strongly fracture controlled zones where garnet and pyroxene skarn dominate over hornfelsing.

A potassic alteration suite is first recognized on the inside edge of the skarn zone in local vein stockwork zones and more exclusively as pervasive patches of k-spar flooding and secondary biotite in volcanics adjacent to monzonite porphyry and diorite intrusives. The secondary k-spar and/or biotite is accompanied by 3%+ sulphides, mainly pyrite & chalcopyrite and 2%+ disseminated magnetite. The volcanics develop a coarsely mottled texture due to k-spar or biotite and sulphide flooding. Chalcopyrite in these sections can exceed 3% locally.

Alteration in the main Witch Lake diorite-gabbroic intrusive is extensively vein controlled biotite and magnetite with minor disseminated biotite and local magnetite flooding. This oxide-rich potassic alteration suite has generally low sulphide, i.e. less than 2% pyrite with traces of chalcopyrite. Gypsum and/or anhydrite veining is locally developed along with quartz-kspar-pyrite-magnetite stockwork veining.

The alteration suites and associated mineralization identified around the main Witch Lake intrusives appear to suggest a large early hornfels - skarn envelope which developed around these relatively hot intermediate stocks upon which local secondary propylitic and potassic alteration & copper mineralized systems were superimposed around the later more monzonitic plugs.

DIAMOND DRILLING

The 1992 round of diamond drilling was contracted to Cancor Drilling Company Ltd., Courtenay, B.C. with Noranda personnel supervising the geological component.

The program commenced with a series of holes (NA-92-11 to 14) on the Main Grid on section and adjacent to Holes NA-91-8 and 10. The objectives being to vector in on more Cu-Au rich potassic alteration zones thought likely to be in the vicinity of these holes. Hole NA-92-18 subsequently followed up the best intersection in this group.

DRILL HOLE SUMMARIES

Main Grid:

Hole NA-92-14, drilled 400 m east and 125 m south of NA-92-11 cut 8 m of feldspar and augite porphyritic-trachyte before entering massive medium to fine grained diorite with local gabbroic sections and thin monzonite dykes. This intrusive showed strong chlorite, magnetite and biotite alteration of the mafics, and generally contains 2-5% magnetite and 1-3% brown biotite. Local trace chalcopyrite is present as disseminated specks and in veins.

Cas Grid:

Hole NA-92-16 was drilled to test a magnetic and soil Cu anomaly on the outer northeast edge of the chargeability zone flanking the Cas monzonite plug. It intersected an interbedded sequence of andesite-feldspar andesite (possibly intrusive) and andesite fragmentals cut by small feldspar porphyry and augite porphyry dykes. Alteration consists of biotite hornfelsing with pyrite, pyrrhotite disseminations with local propylitic selvages. Sulphide mineralization is less than 2% and dominantly pyrite, epidote is locally present. No significant assays were obtained from this hole.

CONCLUSIONS

The additional five holes on the Main Grid have confirmed the presence of a large sulphide rich hornfels and skarn zone flanking the southwest side of a series of diorite to gabbroic intrusives. Younger monzonite intrusives with associated propylitic to potassic alteration and Cu $\pm$ Au mineralization were intersected in the drilling. These plugs carry significant magnetite and would show up as a discrete magnetic high if it was further away from the Witch diorites, and in fact a number of such features have been noted by previous airborne and ground surveys to the southwest.

RECOMMENDATIONS

The potential area remaining on the Main Grid for development of ore grade mineralization at moderate depth appears limited by the surrounding holes to a size range which would require a much higher grade zone than can be reasonably expected for an alkalic porphyry. Hence further work should be focused away from this area. The mineralized monzonite intersected in the drilling is also magnetic and lies at the east end of a string of small airborne mag/resistivity high which extends for a further 8 km to the west. The nearest group of three anomalies lies partly on the east edge of the current Main Grid. Within an area of NE-SW cross-faulting significant Cu soil and I.P. chargeability anomalies were detected in this area on the last line, both are open to the south and west. Also several small altered pyrite/chalcopyrite mineralized trachy-andesite outcrops were located on this line. This area and south of airborne anomaly areas are therefore the recommended focus of further exploration activities on the Main Grid.

The two holes drilled on the Cas Grid while not returning any high Cu-Au values did confirm the presence of a zoned alkalic plug with associated potassic alteration and copper bearing sulphide mineralization around which a large alteration halo is developed. Considering the size of the flanking chargeability zone additional surface work (i.e. detailed mapping and trenching) is recommended to investigate the potential of the rest of the plug contact area.

APPENDIX I

COST STATEMENT

APPENDIX I
COST STATEMENT

DRILLING

Contractor: Cancor Drilling Company Ltd., Courtenay, B.C.

Contractor Costs:

Drilling (Footage)	$ 50,312.28
Services (Drill Roads, Mob/Demob, materials used, core trays, etc)	$ 49,868.69
Total Contractor Costs	$100,180.97

Total Metres drilled = 835 m Cost per metre drilled $119.98/m

Labour Costs:

Senior Geologist	$ 8,068.12
Core Splitter	4,255.68
Total Labour Costs	$ 12,323.80

Total Metres drilled = 835 m Cost per metre drilled $14.76/m

Services (includes access road building, camp costs & supplies):

Supplies	$ 6,025.86
Transport, Roads, Mobilization	7,494.46
Total Services Costs	$ 13,520.32

Total Metres drilled = 835 Cost per metre drilled $16.19/m

TOTAL DRILLING RELATED COSTS ARE EQUAL TO $150.93 PER METRE DRILLED.

Assaying Costs:

Assaying	$ 3,437.19
Sample Transport	419.62
Total Assay Costs	$ 3,856.81

Total Samples Analyzed = 247 Cost per sample analyzed = $15.61

Costs related to drilling drill hole NA92-16 on the Cas Claim.

Drill Related Cost = $150.93/m drilled
Total Metres drilled in NA92-16 = 98.76 m
Total Drill Related Cost for NA92-16 = $14,905.85

Assay Cost per Sample = $15.61/sample
Number of Samples Analyzed for NA92-16 = 32 samples
Total Assay Cost for NA92-16 = $499.52

Total Cost of Drilling NA92-16 = $15,405.37

Costs relating to drilling NA92-14 on the TT1 claim.

Drill Related Cost = $150.93/m drilled
Total Metres Drilled in NA92-14 = 100.3 m
Total Drill Related Cost for NA92-14 = $15,138.28

Assay Cost per Sample = $15.61/sample
Number of Samples Analyzed for NA92-14 = 28 samples
Total Assay Cost for NA92-14 = $ 437.08

Total Cost of Drilling NA92-14 = $15,575.36

APPENDIX II

DRILL LOGS

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : MITZI
HOLE No. : NA-92-14
Grid System :
Collar Eastings : 83250.000
Collar Northings : 78625.000
Collar Elevations : 1000.000
Collar Bearing : 0.00
Grid Baseline : 0.00

Collar Inclination : -45.00
Grid Bearing : 0.00
Final Depth : 100.30
Claim No. : TT 1

Logged by : T. WALKER.
Date : Jan 30,1992 - Jan 31,1992
Downhole Survey :
Drilled By : CANCOR DRILLING.
Core Size : BDGM

INTERVAL(m) FROM	TO	MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m) FROM	TO	SAMPLE WIDTH	GEOCHEMICAL SAMPLES Cu ppm	Au ppb	Ag ppm
0.00	100.30									
0.00	10.70		CASING		0.00	10.70	10.70	C/I	C/I	C/I
10.70	19.00		FELD & AUG POR. TRACH	57603	10.70	13.00	2.30	296.	116.	0.6
			Medium to pale grey, massive flinty	57602	13.00	16.00	3.00	199.	490.	0.3
			porphyritic mafics altered to calcite.	57601	16.00	19.00	3.00	299.	61.	0.4
			Feldspars altered to sericite-clay, local-							
			ly fragmental - disseminated pyrite.							
19.00	28.80		AZT. DIOR / MICRO DIORITE	57604	19.00	22.00	3.00	1321.	34.	1.1
			Fine to medium grained, strongly chlor-	57605	22.00	25.00	3.00	218.	36.	0.1
			itized, 2-3% disseminated magnetite, dis-	57606	25.00	28.00	3.00	271.	6.	0.6
			seminations and blebs of pyrite and	57607	28.00	31.00	3.00	372.	8.	0.7
			chalcopyrite. 2-5% disseminated brown							
			biotite.							
28.80	30.50		MONZONITE DYKE							
			Medium grey, flinty, aphanitic, weakly							
			feldspar porphyritic - matrix sericite							
			altered. 3-5% disseminated magnetite and							
			pyrite.							
30.50	58.00		DIOR / MICRO DIORITE	57608	31.00	34.00	3.00	195.	16.	0.2
			As above, with disseminated secondary	57609	34.00	37.00	3.00	162.	6.	0.4
			biotite. 5-10% magnetite, locally 20%.	57610	37.00	40.00	3.00	198.	5.	0.1
			Local magnetite, pyrite, quartz, and trace	57611	40.00	43.00	3.00	229.	12.	0.1
			chalcopyrite veins. Disseminated pyrite	57612	43.00	46.00	3.00	175.	10.	0.2
			and specks of chalcopyrite.	57613	46.00	49.00	3.00	89.	5.	0.3
				57614	49.00	52.00	3.00	104.	8.	0.1
				57615	52.00	55.00	3.00	89.	15.	0.1
				57616	55.00	58.00	3.00	228.	9.	0.5
58.00	66.90		DIORITE / GABBRO	57617	58.00	61.00	3.00	302.	10.	0.4
			Medium to coarse grained, magnetite	57618	61.00	64.00	3.00	342.	11.	0.3
			rich, calcite +/- carbonate, biotite	57619	64.00	67.00	3.00	237.	10.	0.2
			altered mafics. 10+% disseminated magne-							
			tite, 1-2% brown biotite, disseminated							
			pyrite and specks of chalcopyrite.							
66.90	67.70		MONZ. POR. DYKE	57620	67.00	70.00	3.00	483.	9.	0.4
			As above but more feldspar porphyritic							

INTERVAL(m) FROM	TO	MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m) FROM	TO	SAMPLE WIDTH	GEOCHEMICAL SAMPLES Cu ppm	Au ppb	Ag ppm
			+ quartz-pyrite-chalcopyrite veins.							
67.70	79.90		ALTERED DIORITE	57621	70.00	73.00	3.00	354.	8.	0.4
			Fine to medium grained, strong chlorite	57622	73.00	76.00	3.00	399.	16.	0.4
			alteration, less magnetic more epidotiza-	57623	76.00	79.00	3.00	431.	53.	0.8
			tion, disseminated pyrite. Chloritization	57624	79.00	82.00	3.00	425.	38.	0.3
			due to heavy faulting. Biotite alteration							
			common between 67.7 and 72.7 m; 2-3% mag.							
79.90	81.90		MON% POR. DYKE							
			As above, local feldspar flooding and							
			disseminated brown biotite and pyrite.							
81.90	100.30		DIORITE / GABBRO	57625	82.00	85.00	3.00	640.	19.	0.1
			As above. Medium to coarse grained,	57626	85.00	88.00	3.00	322.	17.	0.3
			chlorite alteration + 2-3% brown biotite,	57627	88.00	91.00	3.00	390.	14.	0.6
			10-20% magnetite disseminations and veins	57628	91.00	94.00	3.00	398.	15.	0.4
			of magnetite flooding; disseminated pyrite	57629	94.00	97.00	3.00	574.	44.	0.6
			and specks of chalcopyrite. Local 2-5 cm	57630	97.00	100.30	3.30	531.	12.	0.5
			monzonite dykes.							
			E.O.H.							

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY :
HOLE No. : NA-92-16
Grid System :
Collar Eastings : 10000.000
Collar Northings : 11200.000
Collar Elevations : 1270.000
Collar Bearing : 180.00
Grid Baseline : 0.00

Collar Inclination : -45.00
Grid Bearing : 180.00
Final Depth : 98.76
Claim No. : CAS

Logged by : T. WALKER.
Date : -
Downhole Survey :
Drilled By : CANCOR DRILLING
Core Size : BDGM

INTERVAL(m) FROM	INTERVAL(m) TO	MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m) FROM	INTERVAL(m) TO	SAMPLE WIDTH	GEOCHEMICAL SAMPLES Cu ppm	Au ppb	Ag ppm
0.00	98.76									
0.00	3.00		OVERBURDEN		0.00	3.00	3.00	C/I	C/I	C/I
3.00	12.10		ANDESITE FRAGMENTAL	57661	3.00	6.00	3.00	57.	12.	0.1
			Dark grey to medium grey-green, finely	57662	6.00	9.00	3.00	56.	2.	0.1
			feldspar (lesser augite) porphyritic mas-	57663	9.00	12.00	3.00	66.	2.	0.1
			sive volcanic flows with scattered, sub-	57664	12.00	15.00	3.00	490.	2.	0.1
			angular to angular fragments of similar							
			material and coarser, more crowded intru-							
			sive equivalent, from mm to ~10 cm across.							
			Linear fractures lined with thin films of							
			pyrite, pyrrhotite, chlorite, possibly							
			tren-act, epidotes also have mm to cm							
			scale haloes of bleaching (sericite-clay							
			alteration). Approximately 10-20 visible							
			fractures/m. Very minor fine disseminated							
			pyrite-pyrrhotite.							
12.10	12.45		Py-Po STRINGER ZONE							
			Narrow stringers of pyrite, pyrrhotite							
			in chlorite altered material. Trace of							
			chalcopyrite. Surrounding volcanics in-							
			tensely bleached especially at fractures							
			for ~0.5 m either side.							
12.45	18.20		ANDESITE FRAGMENTAL	57665	15.00	18.00	3.00	57.	2.	0.1
			As from 3-12.1 m.	57666	18.00	21.00	3.00	95.	2.	0.1
18.20	23.20		ANDESITE	57667	21.00	24.00	3.00	69.	2.	0.1
			Similar to andesite fragmental unit but							
			distinctly less porphyritic, more uniform							
			texture, less fragments. Contacts							
			diffuse. Possibly weakly biotitized							
			phenocrysts.							
23.20	28.93		ANDESITE FRAGMENTAL	57668	24.00	27.00	3.00	55.	2.	0.1
			As from 3-12.1 m. A few scattered py-	57669	27.00	30.00	3.00	71.	2.	0.1
			rite, pyrrhotite filled fractures up to							
			several mm wide.							
28.93	29.30		GARNET-CHLORITE SKARN							

INTERVAL(m) FROM	TO	MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m) FROM	TO	SAMPLE WIDTH	GEOCHEMICAL SAMPLES Cu ppm	Au ppb	Ag ppm
			Coarse reddish garnets and dark green calc-silicate (chlorite?) in cross-cutting vein.							
29.30	41.00		ANDESITE FRAGMENTAL	57670	30.00	33.00	3.00	57.	2.	0.1
			As from 3-12.1 m. A few fractures	57671	33.00	36.00	3.00	28.	2.	0.1
			filled with mm scale quartz veins.	57672	36.00	39.00	3.00	38.	2.	0.1
				57673	39.00	42.00	3.00	54.	2.	0.1
41.00	46.40		ANDESITE	57674	42.00	45.00	3.00	119.	2.	0.1
			As from 18.2-23.2 m. Grades into above	57675	45.00	48.00	3.00	86.	2.	0.1
			lithology with depth. A few quartz veins							
			especially near lower contact.							
46.40	47.75		FELD PORPHYRY (MON? ?) DYKE							
			Pale grey to creamy, diffuse phenocrysts							
			oxidized, possibly biotitic (rusty							
			speckled texture).							
47.75	67.90		ANDESITE FRAGMENTAL	57676	48.00	51.00	3.00	46.	2.	0.1
			As from 3-12.1 m. Composition of frag-	57677	51.00	54.00	3.00	44.	2.	0.1
			ments varies from dark aphanitic to	57678	54.00	57.00	3.00	39.	2.	0.1
			coarsely porphyritic. A few quartz veins,	57679	57.00	60.00	3.00	44.	2.	0.1
			1 cm pyrite vein at 63.5 m.	57680	60.00	63.00	3.00	60.	2.	0.1
				57681	63.00	66.00	3.00	53.	2.	0.1
				57682	66.00	69.00	3.00	89.	2.	0.1
67.90	71.95		BLEACHED FRACTURED ZONE	57683	69.00	72.00	3.00	80.	2.	0.1
			Pale green, mottled texture with chlor-							
			ite and pyrrhotite, pyrite in fractures,							
			clots.							
71.95	74.10		APHANITIC VOLCANIC / CHERT	57684	72.00	75.00	3.00	70.	2.	0.1
			Grey, massive to vaguely banded, with							
			fine speckled texture except near con-							
			tacts. Most chert-like at contacts.							
			Scattered coarse pyrrhotite masses with							
			bleached haloes.							
74.10	79.30		ANDESITE	57685	75.00	78.00	3.00	68.	2.	0.1
			As from 18.2-23.2 m. Scattered fine	57686	78.00	81.00	3.00	79.	2.	0.1
			augite and fild phenocrysts, a few frag-							
			ments, especially near upper contact. A							
			few chlorite-pyrite-pyrrhotite lined							
			fractures with bleached haloes.							
79.30	80.05		FELD PORPHYRY DYKE							
			Dull, pale creamy grey, fine, diffuse							
			tip phenocrysts. Bleaching near fractures.							

INTERVAL(m) FROM	TO	MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m) FROM	TO	SAMPLE WIDTH	GEOCHEMICAL SAMPLES Cu ppm	Au ppb	Ag ppm
			Minor quartz.							
80.05	84.90		ANDESITE	57687	81.00	84.00	3.00	77.	2.	0.1
			As from 74.1-79.3 m.	57688	84.00	87.00	3.00	51.	2.	0.1
84.90	87.20		ANG. PORPHYRY DYKE	57689	87.00	90.00	3.00	67.	2.	0.1
			Dark green phenocrysts up to 1 cm long in aphanitic dark grey matrix. Scattered fine feldspar phenocrysts. A few 1 cm quartz veins near center of dyke. Contacts well defined.							
87.20	98.76		ANDESITE FRAGMENTAL	57690	90.00	93.00	3.00	65.	2.	0.1
			As from 3.0-12.1 m. Except intensity of fracturing/bleaching decreases to about 1-5/m.	57691	93.00	96.00	3.00	49.	2.	0.1
				57692	96.00	98.76	2.76	54.	2.	0.1
			E.O.H.							

APPENDIX III

DRILL CORE ANALYSIS

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Mitzi (DN) NA 92-14

Noranda Exploration Co. Ltd. PROJECT 9202-004 185 File # 92-0270

1050 Davie St., Vancouver BC V6E 1M4

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
057601 DR	1	299	7	46	.4	39	12	329	3.86	9	5	ND	1	171	.2	2	2	92	2.28	.166	8	50	.45	96	.12	8	1.51	.05	.07	1	61
057602 DR	1	199	5	57	.3	24	8	343	4.48	3	5	ND	3	171	.2	2	3	115	1.79	.147	10	54	.30	138	.13	7	1.44	.06	.07	1	490
057603 DR	1	296	13	59	.6	36	17	295	5.36	10	7	ND	4	85	.3	2	2	105	1.86	.163	14	43	.28	66	.13	6	1.47	.08	.11	1	116
057604 DR	1	1321	3	64	1.1	100	25	454	4.84	17	5	ND	2	56	.3	2	2	136	2.36	.026	2	116	1.28	50	.18	6	1.44	.06	.12	1	34
057605 DR	1	218	2	42	.1	63	21	602	4.00	10	5	ND	1	83	.2	2	2	107	4.18	.020	2	138	2.30	108	.18	4	1.51	.06	.27	2	36
057606 DR	1	271	8	33	.6	54	23	333	4.36	8	7	ND	3	63	.2	2	2	163	1.62	.040	4	154	1.75	223	.15	6	1.67	.10	.60	2	6
057607 DR	1	372	2	41	.7	52	25	477	5.84	7	6	ND	4	67	.2	4	2	211	2.00	.099	6	125	1.69	130	.15	7	2.06	.09	.80	2	8
RE 057611 DR	1	208	2	22	.2	71	28	341	4.57	6	5	ND	1	33	.2	2	2	166	1.72	.019	2	192	2.33	156	.13	6	1.54	.07	.43	2	8
057608 DR	1	195	2	23	.2	80	30	365	5.03	4	5	ND	1	43	.2	2	2	177	1.59	.036	2	211	2.42	185	.12	6	1.55	.10	.62	1	16
057609 DR	1	162	2	30	.4	62	23	350	4.07	5	5	ND	3	49	.2	2	2	139	2.01	.044	2	144	2.17	194	.13	8	1.88	.07	.53	2	6
057610 DR	1	198	4	28	.1	62	23	350	4.16	3	5	ND	1	39	.2	2	2	143	1.86	.019	2	162	2.16	110	.13	5	1.79	.08	.31	1	5
057611 DR	1	229	2	24	.1	74	29	364	4.79	6	5	ND	1	36	.2	2	2	175	1.81	.024	2	202	2.45	171	.13	6	1.68	.08	.45	1	12
057612 DR	1	175	4	27	.2	72	25	322	4.63	7	5	ND	1	24	.2	2	2	188	1.47	.016	2	194	2.11	119	.14	4	1.45	.08	.41	2	10
057613 DR	1	89	3	22	.3	72	25	336	3.13	5	5	ND	1	33	.2	2	2	84	1.28	.014	2	172	2.57	171	.10	5	1.33	.09	.56	1	5
057614 DR	1	104	2	20	.1	70	24	322	2.93	5	5	ND	1	27	.3	2	2	77	1.04	.022	2	167	2.40	165	.11	6	1.24	.09	.55	1	8
057615 DR	1	89	2	22	.1	64	21	333	2.86	5	5	ND	1	37	.2	2	2	78	1.37	.030	2	182	2.30	184	.12	5	1.56	.09	.63	1	15
057616 DR	2	228	2	32	.5	65	26	438	4.97	11	5	ND	2	54	.4	3	2	193	1.86	.036	2	211	1.93	169	.16	7	2.04	.14	.53	3	9
057617 DR	1	302	2	40	.4	76	32	473	6.15	7	5	ND	2	176	.3	2	2	231	2.70	.054	4	161	2.20	290	.14	9	2.80	.10	.65	1	10
057618 DR	1	342	2	29	.3	82	30	381	5.85	4	5	ND	1	78	.4	2	2	218	1.78	.035	2	191	2.10	290	.15	6	2.23	.11	.64	1	11
057619 DR	1	237	2	25	.2	66	24	343	5.00	5	5	ND	1	68	.2	2	2	191	1.97	.032	2	224	1.62	211	.14	8	1.97	.09	.45	1	10
057620 DR	1	483	2	33	.4	94	33	502	5.55	11	5	ND	2	77	.2	2	2	198	2.85	.023	2	246	2.19	162	.13	8	2.17	.08	.45	14	9
057621 DR	2	354	2	35	.4	87	31	439	5.28	9	5	ND	1	54	.4	2	2	194	2.38	.036	2	258	2.63	190	.14	9	2.50	.13	.52	1	8
057622 DR	2	399	2	43	.4	81	41	485	6.66	16	5	ND	1	57	.4	3	2	304	2.13	.023	2	248	2.35	154	.14	8	2.40	.10	.42	2	16
057623 DR	1	431	6	33	.8	79	28	294	7.54	9	5	ND	2	46	.4	2	2	379	2.09	.027	2	198	1.03	122	.14	12	1.73	.07	.25	2	53
057624 DR	2	425	5	29	.3	41	26	456	5.07	25	5	ND	2	95	.3	2	2	163	2.86	.107	6	122	1.71	97	.12	6	2.30	.08	.41	2	38
057625 DR	1	640	2	31	.1	113	36	428	5.93	12	5	ND	1	35	.3	2	2	230	1.58	.027	2	289	2.58	184	.13	4	1.64	.09	.53	1	19
057626 DR	1	322	2	30	.3	121	39	463	6.42	7	5	ND	1	37	.4	2	2	233	1.31	.024	2	334	3.49	175	.13	5	1.44	.10	.41	2	17
057627 DR	1	390	5	26	.6	120	37	477	5.85	3	5	ND	1	39	.2	2	2	199	1.00	.021	2	298	3.35	216	.13	6	1.34	.11	.63	1	14
057628 DR	2	398	2	27	.4	109	36	551	6.04	5	5	ND	1	46	.4	2	2	192	1.27	.033	2	256	3.76	203	.13	7	1.74	.10	.64	2	15
057629 DR	2	574	3	29	.6	118	39	467	5.92	9	5	ND	1	40	.3	2	2	191	1.32	.028	2	305	3.35	262	.15	5	1.61	.10	.75	1	44
057630 DR	1	531	2	24	.5	117	37	492	5.78	3	5	ND	2	41	.2	2	2	190	1.39	.020	2	291	2.97	188	.12	4	1.40	.10	.60	1	12
STANDARD C/AU-R	19	62	37	125	7.3	65	31	1033	3.88	42	19	8	40	54	17.7	16	20	60	.50	.092	40	59	.90	181	.08	33	1.84	.08	.17	11	482

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.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE AU** ANALYSIS BY FA/ICP FROM 20 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: FEB 5 1992 **DATE REPORT MAILED:** Feb 12/92 **SIGNED BY.** C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
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BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V92-00139.0 (COMPLETE) Mitzi (MS) Nu 92-15, 16, 17 REFERENCE INFO: 9202-007

CLIENT: NORANDA EXPLORATION CO. LTD.
PROJECT: 185

SUBMITTED BY: UNKNOWN
DATE PRINTED: 27-FEB-92

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold Fire Assay 20g	50	5 PPB	Fire-Assay	Fire Assay AA
2	Ag	Silver	50	0.2 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
3	Cu	Copper	50	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
4	Pb	Lead	50	2 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
5	Zn	Zinc	50	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
6	Mo	Molybdenum	50	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
7	Ni	Nickel	50	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
8	Co	Cobalt	50	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
9	Cd	Cadmium	50	1.0 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
10	Bi	Bismuth	50	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
11	As	Arsenic	50	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
12	Sb	Antimony	50	5 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
13	Fe	Iron	50	0.01 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
14	Mn	Manganese	50	0.01 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
15	Te	Tellurium	50	10 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
16	Ba	Barium	50	2 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
17	Cr	Chromium	50	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
18	V	Vanadium	50	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
19	Sn	Tin	50	20 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
20	W	Tungsten	50	20 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
21	La	Lanthanum	50	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
22	Al	Aluminum	50	0.01 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
23	Mg	Magnesium	50	0.01 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
24	Ca	Calcium	50	0.01 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
25	Na	Sodium	50	0.01 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
26	K	Potassium	50	0.01 PCT	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
27	Sr	Strontium	50	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma
28	Y	Yttrium	50	1 PPM	HNO3-HCl Hot Extr.	Ind. Coupled Plasma

Mail BC SA KP

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REFERENCE INFO:

CLIENT: NORANDA EXPLORATION CO. LTD.
PROJECT: 185

SUBMITTED BY: UNKNOWN
DATE PRINTED: 27-FEB-92

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
0 DRILL CORE	50	2 -150	50	CRUSH,PULVERIZE -150	50

REPORT COPIES TO: MR. EVERT VAN LEEUWEN

INVOICE TO: MR. EVERT VAN LEEUWEN

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PROJECT: 185 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM
D2 57654		96	<0.2	1613	9	26	2	62	51	<1.0	5	16
D2 57655		20	<0.2	776	8	21	4	66	33	<1.0	6	15
D2 57656		12	<0.2	471	6	12	3	48	20	<1.0	<5	36
D2 57657		11	<0.2	479	7	17	4	75	26	<1.0	5	7
D2 57658		34	<0.2	625	6	14	<1	44	25	<1.0	<5	16
D2 57659		16	<0.2	474	8	11	2	45	22	<1.0	<5	6
D2 57660		25	<0.2	852	5	20	<1	47	33	<1.0	<5	6
NA92-16 D2 57661		12	<0.2	57	5	20	3	7	13	<1.0	6	6
D2 57662		<5	<0.2	56	3	14	2	7	12	<1.0	6	<5
D2 57663		<5	<0.2	66	3	14	7	7	15	<1.0	<5	<5
D2 57664		<5	<0.2	490	6	20	3	8	28	<1.0	<5	<5
D2 57665		<5	<0.2	57	4	25	10	7	12	<1.0	<5	7
D2 57666		<5	<0.2	95	2	15	23	8	15	<1.0	6	<5
D2 57667		<5	<0.2	69	2	16	11	7	14	<1.0	<5	<5
D2 57668		<5	<0.2	55	3	15	5	7	11	<1.0	5	7
D2 57669		<5	<0.2	71	3	19	5	7	14	<1.0	<5	<5
D2 57670		<5	<0.2	57	<2	18	2	6	11	<1.0	<5	<5
D2 57671		<5	<0.2	28	3	14	8	6	10	<1.0	<5	<5
D2 57672		<5	<0.2	38	<2	13	6	6	10	<1.0	<5	9
D2 57673		<5	<0.2	54	4	14	6	6	13	<1.0	5	9
D2 57674		<5	<0.2	119	4	18	5	8	19	<1.0	<5	<5
D2 57675		<5	<0.2	86	4	14	4	7	15	<1.0	<5	9
D2 57676		<5	<0.2	46	3	18	6	7	13	<1.0	<5	7
D2 57677		<5	<0.2	44	3	20	5	5	13	<1.0	5	6
D2 57678		<5	<0.2	39	3	21	3	6	10	<1.0	6	7
D2 57679		<5	<0.2	44	4	22	2	5	10	<1.0	<5	9
D2 57680		<5	<0.2	60	4	34	3	8	12	<1.0	<5	<5
D2 57681		<5	<0.2	53	4	20	2	7	12	<1.0	<5	11
D2 57682		<5	<0.2	89	6	17	3	7	14	<1.0	7	<5
D2 57683		<5	<0.2	80	5	13	5	8	14	<1.0	<5	<5
D2 57684		<5	<0.2	70	5	23	3	5	17	<1.0	6	<5
D2 57685		<5	<0.2	68	3	12	7	8	15	<1.0	<5	6
D2 57686		<5	<0.2	79	5	15	7	10	16	<1.0	<5	6
D2 57687		<5	<0.2	77	3	21	3	8	18	<1.0	7	11
D2 57688		<5	<0.2	51	4	24	2	7	15	<1.0	<5	<5
D2 57689		<5	<0.2	67	4	20	2	7	14	<1.0	5	<5
D2 57690		<5	<0.2	65	3	17	2	7	12	<1.0	<5	5
D2 57691		<5	<0.2	49	3	16	1	6	11	<1.0	<5	<5
NA92-16 D2 57692		<5	<0.2	54	4	17	1	7	13	<1.0	<5	7
D2 57693		<5	<0.2	130	5	20	1	6	15	<1.0	<5	<5

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Geochemical Lab Report

REPORT: V92-00139.0 (COMPLETE)

DATE PRINTED: 27-FEB-92

PROJECT: 185 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Fe PCT	Mn PCT	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT
D2 57654		<5	4.73	0.03	<10	54	77	97	<20	<20	8	3.61
D2 57655		<5	5.09	0.03	<10	53	86	122	<20	<20	6	3.43
D2 57656		<5	3.63	0.04	<10	43	70	75	<20	<20	10	4.46
D2 57657		<5	4.52	0.04	<10	109	102	107	<20	<20	9	3.15
D2 57658		<5	4.09	0.04	<10	28	74	75	<20	<20	11	4.09
D2 57659		<5	3.45	0.03	<10	45	63	67	<20	<20	12	4.67
D2 57660		<5	4.75	0.04	<10	48	63	80	<20	<20	9	4.23
NA92-16 D2 57661		<5	3.64	0.04	<10	119	32	111	<20	<20	7	2.64
D2 57662		<5	3.06	0.04	<10	89	29	95	<20	<20	7	2.44
D2 57663		<5	3.70	0.04	<10	59	21	100	<20	<20	6	2.54
D2 57664		<5	5.69	0.04	<10	47	17	113	<20	<20	6	2.48
D2 57665		<5	3.23	0.05	<10	60	15	105	<20	<20	7	2.60
D2 57666		<5	3.38	0.03	<10	44	21	100	<20	<20	6	2.56
D2 57667		<5	3.56	0.04	<10	78	20	98	<20	<20	6	2.92
D2 57668		<5	2.91	0.05	<10	68	22	96	<20	<20	6	2.39
D2 57669		<5	4.88	0.07	<10	68	17	130	<20	<20	6	2.64
D2 57670		<5	3.35	0.08	<10	96	21	115	<20	<20	6	2.81
D2 57671		<5	2.97	0.04	<10	152	19	101	<20	<20	6	2.87
D2 57672		<5	2.78	0.03	<10	76	19	87	<20	<20	6	2.56
D2 57673		<5	2.71	0.03	<10	73	16	98	<20	<20	6	2.53
D2 57674		<5	3.90	0.04	<10	34	12	113	<20	<20	6	2.60
D2 57675		<5	3.05	0.05	<10	37	15	123	<20	<20	7	2.43
D2 57676		<5	2.80	0.04	<10	46	16	105	<20	<20	6	2.83
D2 57677		<5	3.11	0.04	<10	169	15	99	<20	<20	5	3.14
D2 57678		<5	2.78	0.04	<10	109	23	90	<20	<20	6	2.84
D2 57679		<5	2.88	0.05	<10	75	16	94	<20	<20	6	2.90
D2 57680		<5	2.97	0.05	<10	149	28	95	<20	<20	6	2.88
D2 57681		<5	3.00	0.04	<10	97	20	95	<20	<20	6	2.68
D2 57682		<5	3.87	0.05	<10	62	27	90	<20	<20	8	2.70
D2 57683		<5	3.20	0.04	<10	54	22	95	<20	<20	6	2.71
D2 57684		<5	3.88	0.05	<10	60	27	111	<20	<20	8	2.61
D2 57685		<5	3.13	0.03	<10	93	32	85	<20	<20	6	2.73
D2 57686		<5	3.13	0.04	<10	58	34	89	<20	<20	6	2.44
D2 57687		<5	3.37	0.04	<10	122	27	106	<20	<20	5	3.10
D2 57688		<5	3.87	0.06	<10	97	21	127	<20	<20	11	3.29
D2 57689		<5	3.30	0.05	<10	231	19	107	<20	<20	5	3.35
D2 57690		<5	3.05	0.04	<10	118	18	103	<20	<20	4	3.25
D2 57691		<5	2.66	0.04	<10	114	16	92	<20	<20	4	2.93
NA92-16 D2 57692		<5	2.83	0.04	<10	84	17	95	<20	<20	4	2.99
D2 57693		<5	3.67	0.05	<10	40	22	121	<20	<20	5	2.63

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

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V92-00139.0 (COMPLETE)

DATE PRINTED: 27-FEB-92

PROJECT: 185 PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM
D2 57654		0.60	>10.00	0.18	0.07	86	7
D2 57655		1.18	9.10	0.14	0.35	94	7
D2 57656		0.51	>10.00	0.17	0.14	86	7
D2 57657		1.47	8.54	0.11	0.53	114	8
D2 57658		0.30	>10.00	0.15	0.08	69	8
D2 57659		0.41	>10.00	0.19	0.06	101	7
D2 57660		0.43	>10.00	0.09	0.05	91	7
D2 57661		1.14	4.78	0.23	0.35	95	14
D2 57662		0.79	5.54	0.21	0.26	99	14
D2 57663		0.83	6.14	0.18	0.18	93	14
D2 57664		0.88	4.30	0.13	0.18	82	13
D2 57665		0.95	5.47	0.12	0.17	65	12
D2 57666		0.67	5.72	0.12	0.15	57	13
D2 57667		0.83	5.48	0.23	0.25	136	13
D2 57668		0.88	5.36	0.15	0.23	95	12
D2 57669		1.02	8.78	0.17	0.21	97	11
D2 57670		1.10	5.55	0.22	0.28	150	11
D2 57671		1.01	5.29	0.25	0.50	169	11
D2 57672		0.81	6.06	0.20	0.25	125	11
D2 57673		0.77	4.48	0.18	0.23	105	11
D2 57674		0.96	5.19	0.09	0.15	69	13
D2 57675		0.89	4.37	0.09	0.15	89	13
D2 57676		0.95	5.08	0.11	0.17	94	13
D2 57677		0.98	3.93	0.28	0.41	153	10
D2 57678		0.85	3.80	0.23	0.34	140	12
D2 57679		0.94	4.63	0.18	0.27	124	12
D2 57680		0.95	3.89	0.25	0.34	127	11
D2 57681		0.87	4.02	0.21	0.25	103	13
D2 57682		0.73	4.70	0.15	0.19	93	14
D2 57683		0.67	4.85	0.17	0.18	121	14
D2 57684		1.15	4.81	0.18	0.23	122	12
D2 57685		0.73	4.15	0.26	0.24	123	13
D2 57686		0.75	5.20	0.15	0.17	97	13
D2 57687		1.12	4.78	0.27	0.33	139	11
D2 57688		1.33	6.83	0.25	0.32	182	12
D2 57689		1.21	4.37	0.34	0.50	230	11
D2 57690		0.98	4.95	0.28	0.29	221	11
D2 57691		0.87	4.54	0.27	0.25	140	9
D2 57692		0.93	4.71	0.28	0.23	147	9
D2 57693		0.80	5.52	0.09	0.15	61	12

NA92-1C ↓

↑ NA92-1C

STATEMENT OF QUALIFICATIONS

I, G. Robert Cluff, of the City of Surrey, Province of British Columbia, do certify that:

1. I am a Geologist residing at 8089-158A Street, Surrey, British Columbia.

2. I am a graduate of the University of Saskatchewan, Saskatoon, Saskatchewan with a Bachelor's of Science (Honours) degree in 1974 and a Master of Science degree in 1981, both in Geological Sciences.

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

4. I presently hold the position of District Geologist, South Cordillera District with Noranda Exploration Company, Limited and have been in their employ from 1977 to 1988 and from 1990 to the present.

5. I have been involved in mineral exploration work since 1970.

April 12/93
Date

G. Robert Cluff
District Geologist
Southern Cordillera District
Noranda Exploration Company, Limited
(No Personal Liability)

79200E 79600E 80000E 80400E 80800E 81200E 81600E 82000E 82400E 82800E 83200E 83600E 84000E

80700N
80500N
80300N
80100N
80000N BASELINE 90°
79900N
79700N
79500N
79300N
79100N
78900N
78700N
78500N
78300N
78100N
77900N
77700N
77500N

I.P.
TT1

N

DDH NA92-14

TT1
TT2

High I.P. Effect
Moderate I.P. Effect
High Resistivity Zone

Instrument : EMRIM
Field : msec
Datum : 0.0msec
Contour Interval : 2.0 msec
Conductor Axis :
100m 50m 0m 100m 200m

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,895

Fig 4

MITZI PROPERTY

I.P. SURVEY(Chargeability)
(DDH LOCATION MAP)
PROJECT: MITZI PROJECT # : 285
BASELINE AZIMUTH : 90 Deg.

SCALE = 1 : 5000 DATE : 11/28/90
SURVEY BY : WK NTS :
FILE: Mip
NORANDA EXPLORATION

78625N

78650N

78675N

78700N

1000ELEV

975ELEV

950ELEV

925ELEV

NA-92-14(0.0E)

CASING 116. /2.30

FELD & AUG POR. TRACH 296. /3.00

AZT. DIOR / MICRO DIORITE 199. /3.00

MONZONITE DYKE 299. /3.00

1321. /3.00

218. /3.00

271. /3.00

372. /3.00

195. /3.00

162. /3.00

198. /3.00

229. /3.00

175. /3.00

89. /3.00

104. /3.00

89. /3.00

228. /3.00

302. /3.00

342. /3.00

237. /3.00

DIOR / MICRO DIORITE 483. /3.00

DIORITE / GABBRO 354. /3.00

MONZ. POR. DYKE 399. /3.00

431. /3.00

425. /3.00

640. /3.00

322. /3.00

390. /3.00

398. /3.00

574. /3.00

531. /3.30

ALTERED DIORITE

MONZ POR. DYKE

DIORITE / GABBRO

EOH NA-92-14(100.3, 0.0E)

noranda
NORANDA EXPLORATION CO. LTD.

GEOLOGICAL BRANCH ASSESSMENT REPORT

22,895

Data Presentation

Geology || Cu(ppm) Au(ppb) / Width(m)

REVISED	MITZI
	DDH NA-92-14
	Section at 83250E on Main Grid
	Vertical N-S Section Looking West
	File : 14-NS.DWG
PROJ.No. 185	SURVEY BY: DATE: March 16/92
N.T.S.	DRAWN BY: GMS/AutoCAD (R. Fenton) SCALE: 1 : 250
DWG.No. 5	NORANDA EXPLORATION COMPANY, LIMITED
	OFFICE: Vancouver

N

L6,400E
L7,200E
L8,000E
L8,800E
L9,600E
L10,400E
L11,200E
L12,000E
L12,800E
L13,600E
L14,400E

T/L 11,700N

LCP
'CAS' CLAIM

B/L 10,000E

CAMP

132895
FHPM 2.5% PJ,PO
67,5,20

FPTA
TA
176255 TA/MP 2-5% PJ 375,10,11
197,1,7 176257 FPM/TA 1-2% PJ,PO 267,3,2
176256 FPM/TA 1-2% PJ,PO
176263 32,1,156 HF-TA 1% PJ,PO
150,6,6 176259 HFPA
176258 HFPA tr PO
176252 143,4,29 HPA
FPA
FHPA
? MONZONITE PLUG
FPM
176254 185,02, HFTA tr-1% PJ,PO
FPM/TA
HFPA

B/L 10,000N

CAS CLAIM

FHPA
117091 FHPM 1-2% PJ,PO 131,5,16
FHPA

T/L 8,700N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,895

REVISED MAR/93	MITZI PROPERTY
	SOUTH (CAS) GRID
	GEOLOGICAL MAP (DDH LOCATION MAP)
PROJ. No. 185	SURVEY BY: DATE: JAN. 1992
N.T.S. 93N/W	DRAWN BY: T. Walker SCALE: 1:5,000
DWG. No. 6	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE

LEGEND

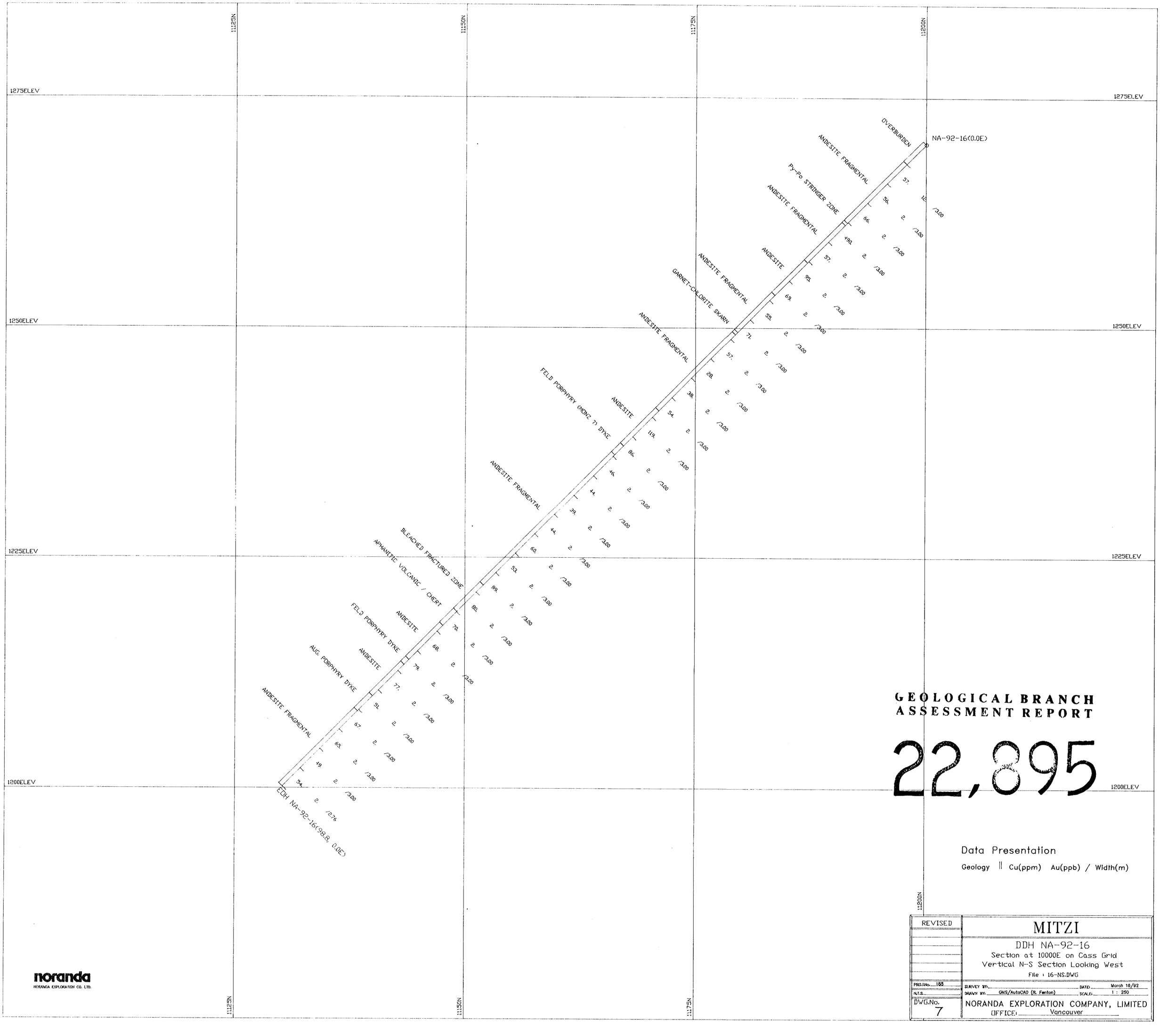
Outcrop ⊗ Float

117091 Sample H
Cu, Au, As assay (ppm, ppb, ppm)

A = andesite (ie) pj = pyrite
T = trachyte (ie) po = pyrrhotite
M = monzonite (ie)
P = porphyritic
H = hornfelsed
F = feldspar

FPM = Feldspar, porphyritic monzonite

Mud Lake



GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,895

Data Presentation

Geology || Cu(ppm) Au(ppb) / Width(m)

REVISED	MITZI
	DDH NA-92-16 Section at 10000E on Cass Grid Vertical N-S Section Looking West File : 16-NS.DWG
PROJ.No. 185	SURVEY BY: DATE: March 10/92
N.T.S.	DRAWN BY: GMS/AutoCAD (R. Fenton) SCALE: 1 : 250
DWG.No. 7	NORANDA EXPLORATION COMPANY, LIMITED OFFICE: Vancouver