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VANCOUVER, B.C.

**REPORT ON
DIAMOND DRILLING
ON THE
QUET CLAIMS**

Quet 1 (3167)	Quet 6 (3468)	Quet 11 (3709)
Quet 2 (3168)	Quet 7 (3695)	Quet 12 (3710)
Quet 3 (3277)	Quet 8 (3696)	Quet 13 (3803)
Quet 4 (3278)	Quet 9 (3697)	Quet 14 (3792)
Quet 5 (3467)	Quet 10 (3703)	Quet 15 (3804)
	Quet Fr. (3805)	

NEW WESTMINSTER MINING DIVISION

N.T.S. 92G/9,16

Latitude 49°45'N Longitude 122°121'W

**Authors : R. Wilson
Noranda Exploration Company, Limited
(no personal liability)**

Owner : Aranlee Resources Ltd.

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

DATE : February 19, 1991

QUET9003.RGW

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,983

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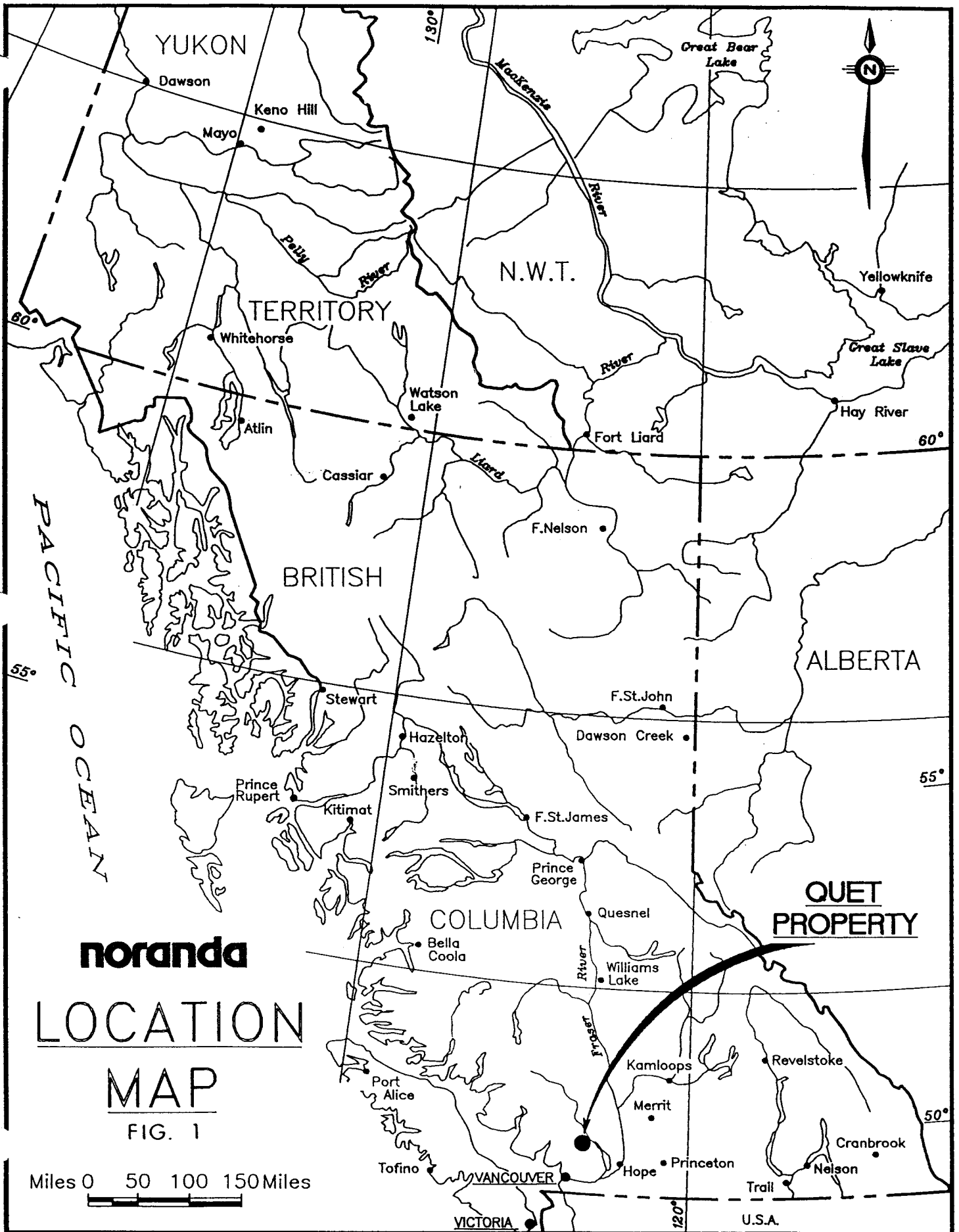
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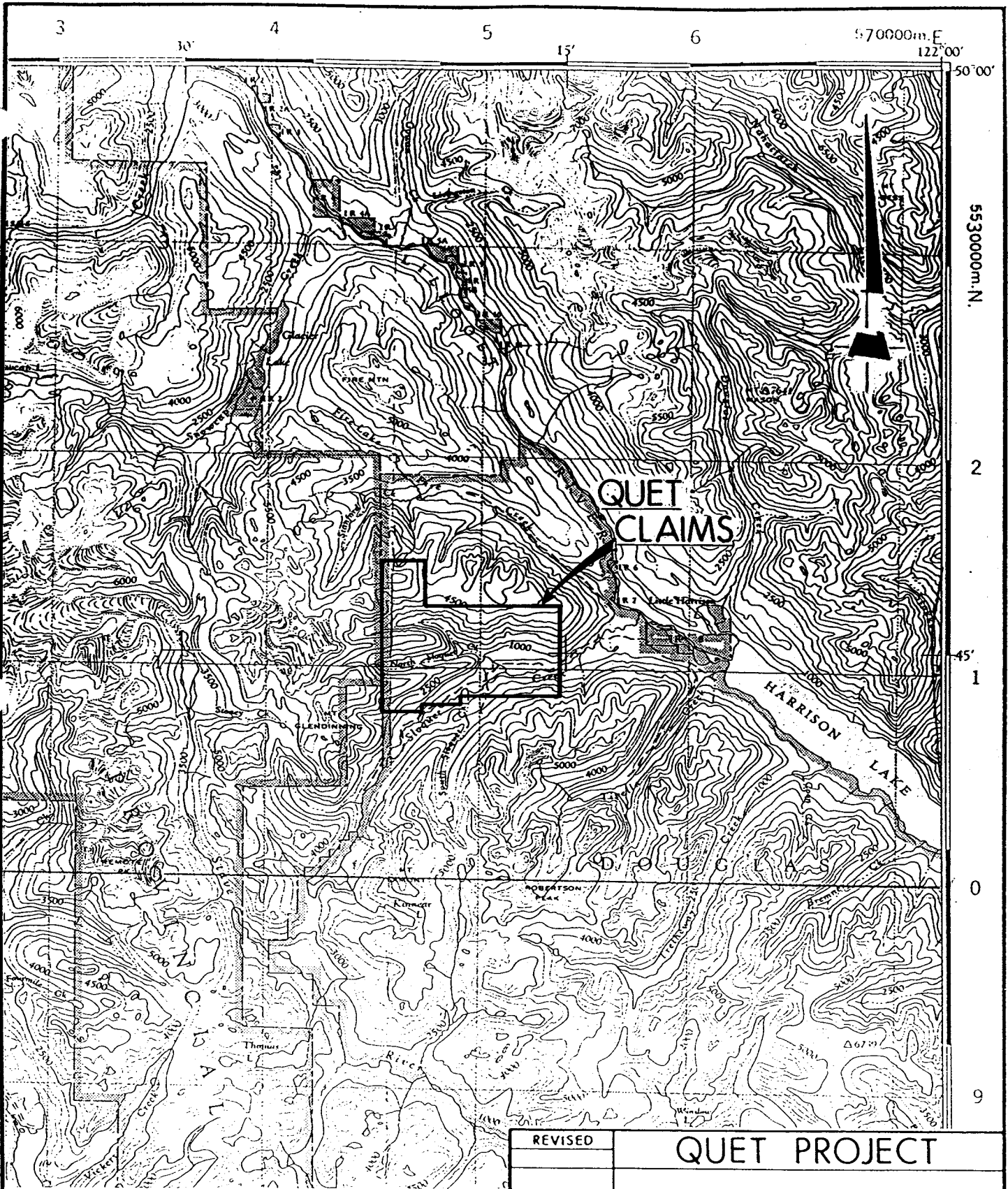
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noranda
LOCATION
MAP
 FIG. 1



SCALE
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VANGAL 11927

REVISED	QUET PROJECT	
	PROPERTY LOCATION	
PROJ.No. 126	SURVEY BY: R.G.W.	DATE: OCT./90
N.T.S. 92G/9,16	DRAWN BY: J.S.	SCALE: 1:250000
DWG.No. 2	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	

1.0 INTRODUCTION

1.1 Location and Access

The Quet claims are located 85 km NE of Vancouver, B.C. (Figure 1) and cover a portion of the Sloquet Creek, North Sloquet Creek and Simpson Creek drainages (Figure 2). The Sloquet Creek, of which the North Sloquet and Simpson Creeks are tributaries, drains into the Lillooet River 7 km north of the head of Harrison Lake.

Access to the claims is via the Port Douglas Forestry Access Road from Pemberton (or Lillooet via the Duffy Lake Road) to 4.5 Mile on the West Side Logging Road and then by 10 km of four wheel drive road along Sloquet Creek. A second route to the 4.5 Mile turnoff is via the Harrison Lake West Side Forestry access road from Harrison Mills on Highway 7. Driving time from Vancouver varies between 4.25 hours for the Pemberton route and 5.25 hours for the Harrison Mills route.

1.2 Physiography and Topography

The Quet property is situated within the Pacific Ranges of the Coast Mountains physiography sub-division. The Pacific Ranges are dominantly a granitic mountain belt characterized by trellis-type drainage patterns.

The topography of the Quet claims is one of steep sided (30-50° ridges with narrow, but flat ridge tops. A moderate gradient on major drainages is punctuated by occasional 1-3 m waterfalls. Few active stream courses were found to be draining ridges.

1.3 Climate and Vegetation

The property is in the Coastal Rain Forest climatic zone characterized by hot dry summers and mild wet winters. Forest fir closures can be expected for 1-4 weeks during August and early September. Winter snow accumulations of 1-3 m can be expected above 2500' elevation ASL, with the bulk of the snow accumulating between January and March. First snows, however, can be expected anytime after October 1st. above 5000' elevation ASL with the snowline descending rapidly during the first part of October.

The claims are covered by a lush growth of hemlock, balsam and fir which has seen approximately 20% logging by area, most of which has considerable natural re-growth. Underbrush in mature forests is generally low while second growth areas are densely choked with blueberry and devils club.

1.4 Claims

The Quet property consists of 14 four-post claims, one two-post claim and one fraction claim (Figure 3) for a total of 208 units as tabled below. Assessment has been applied to hold most of the claims in good standing until 1995 or 1996. All claims are situated within the New Westminster Mining Division.

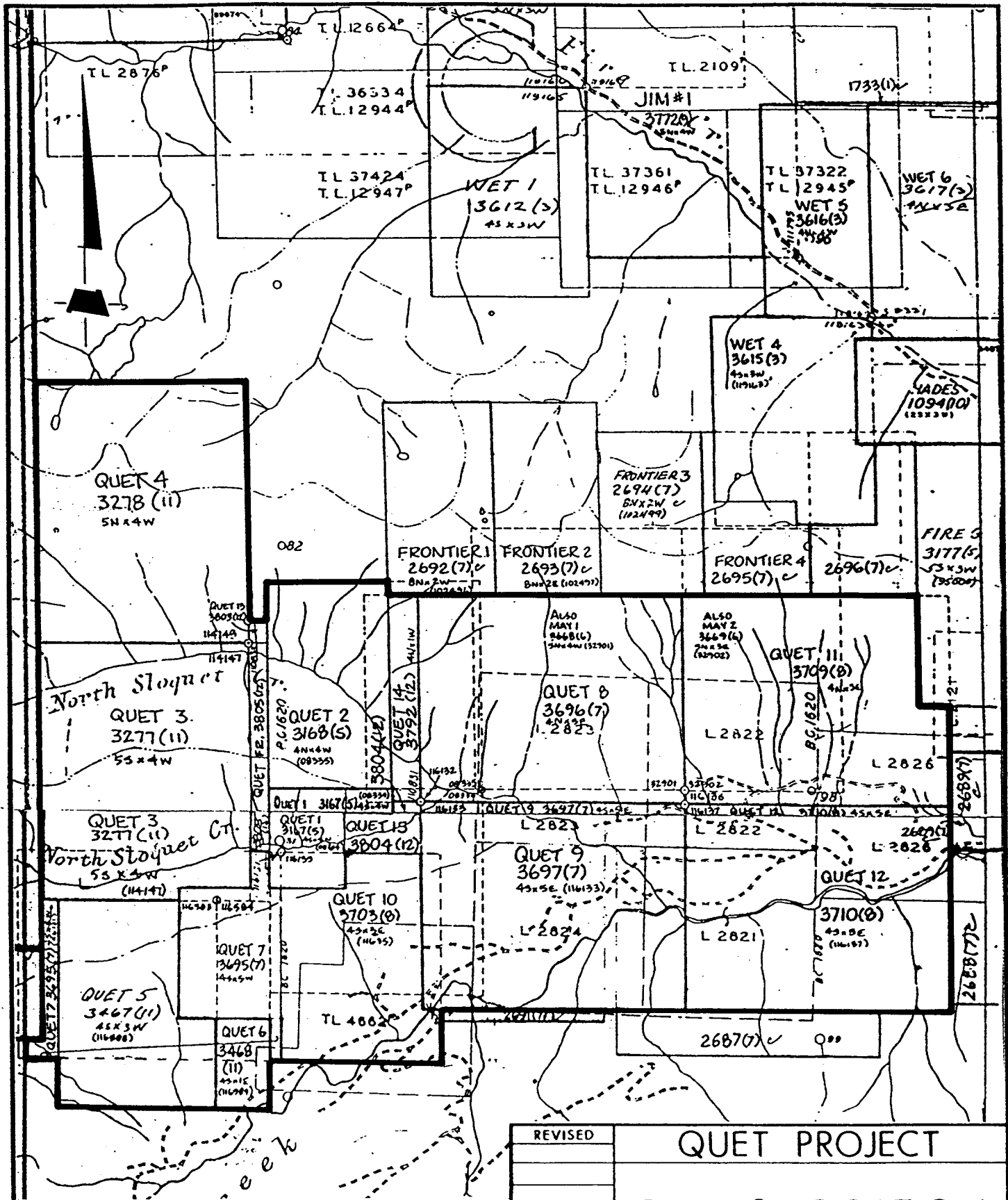
TABLE 1: CLAIMS

N.T.S.	Claim Name	Record #	Claim Type *	Units	Record Date	Area	Year of Expiry
92G/9	Quet 1	003167	MG	16	May 22/87	400	1996
92G/16	Quet 2	003168	MG	16	May 22/87	400	1995
92G/16	Quet 3	003277	MG	20	Nov. 5/87	500	1995
92G/16	Quet 4	003278	MG	20	Nov. 5/87	500	1995
92G/9	Quet 5	003467	MG	12	Nov. 4/88	300	1995
92G/9	Quet 6	003468	MG	4	Nov. 4/88	100	1995
92G/9	Quet 7	003695	MG	20	Jul.26/89	500	1995
92G/16	Quet 8	003696	MG	20	Jul.27/89	500	1995
92G/16	Quet 9	003697	MG	20	Jul.27/89	500	1995
92G/9	Quet 10	003703	MG	12	Aug. 6/89	300	1996
92G/16	Quet 11	003709	MG	20	Aug.14/89	500	1995
92G/16	Quet 12	003710	MG	20	Aug.14/89	500	1995
92G/9	Quet 13	003803	TP	1	Dec.13/89	25	1995
92G/9	Quet 14	003792	MG	4	Dec. 4/89	100	1995
92G/9	Quet 15	003804	MG	2	Dec.13/89	50	1996
92G/9	Quet Fr.	003805	FR	1	Dec.13/89	10.50	1995
				----		-----	
				208		5185.50	
				====		=====	

* MG = 4-post claim (modified grid)

TP = 2-post claim

FR = Fraction claim



SCALE
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VANCAL 11927

N.T.S. - 92G/9W, 16W

REVISED	QUET PROJECT	
	CLAIMS LOCATION	
PROJ. No. 126	SURVEY BY: R.G.W.	DATE: OCT./90
N.T.S. 92G/9,16	DRAWN BY: J.S.	SCALE: 1:50000
DWG. No. 3	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	

1.5 History

First recorded exploration within the claims area was by Cominco prospectors who panned gold in Simpson Creek in 1944. A source within gossanous cliffs above the creek produced some modest gold results which received only minor follow-up.

In 1979 Cominco re-staked the area as the Slo claims and completed soil and rock sampling north of Simpson Creek and between North Sloquet and Simpson Creeks. Widespread base and precious metal values were received which in part were traced to galena-sphalerite showings. Cominco allowed the claims to lapse in 1986.

In 1986 Adrian Resources Ltd./Danbus Resources Inc. held the ground as the Frontier and Gem claims and completed contour soil and rock sampling and regional geology.

In 1987 the Quet 1 and 2 claims were staked and optioned to Aranlee Resources Ltd. who staked the Quet 3 and 4 claims and completed limited prospecting and sampling late that year.

In 1988 additional prospecting, sampling and regional geological mapping were completed by Aranlee which resulted in the discovery of "Dan's Showing" south of North Sloquet Creek.

A follow-up programme by Aranlee of prospecting, sampling and geological mapping during 1989 on the ridge between the North Sloquet and Sloquet Creeks was culminated by the construction of an access road up the ridge for the purposes of mechanical trenching. Several new Au-Ag zones were discovered that year including the 350 East, 650 East, 900 East and 1500 East showings. Considerable additional ground also was added to the property by way of staking.

Noranda examined the property in late 1989 and completed an option agreement with Aranlee Resources Limited in March 1990. This report details the results of a follow-up diamond drill programme to preliminary geological, geochemical, geophysical surveys.

2.0 TECHNIQUES AND PRODUCTION

2.1 Overview

The preliminary phase of the 1990 Quet exploration programme included airborne magnetometer and E.M. surveying, silt sampling, soil sampling, limited rock sampling, geological mapping, and ground geophysical magnetometer surveying, horizontal loop electromagnetic surveying and Induced Polarization surveying.

A follow-up diamond drill programme tested various targets on the Southridge Zone that were identified by the preliminary programme. The NQ core was logged and a majority of it split for rock geochemical analysis.

2.2 Diamond Drilling

During September and October 1990 a diamond drill programme was completed on the Southridge Zone to test targets identified by preliminary geological-geochemical-geophysical surveys. A total of 1251.9 m of NQ core was obtained from 7 drill holes from which a total of 613 split core samples were collected and sent for rock geochemical analysis.

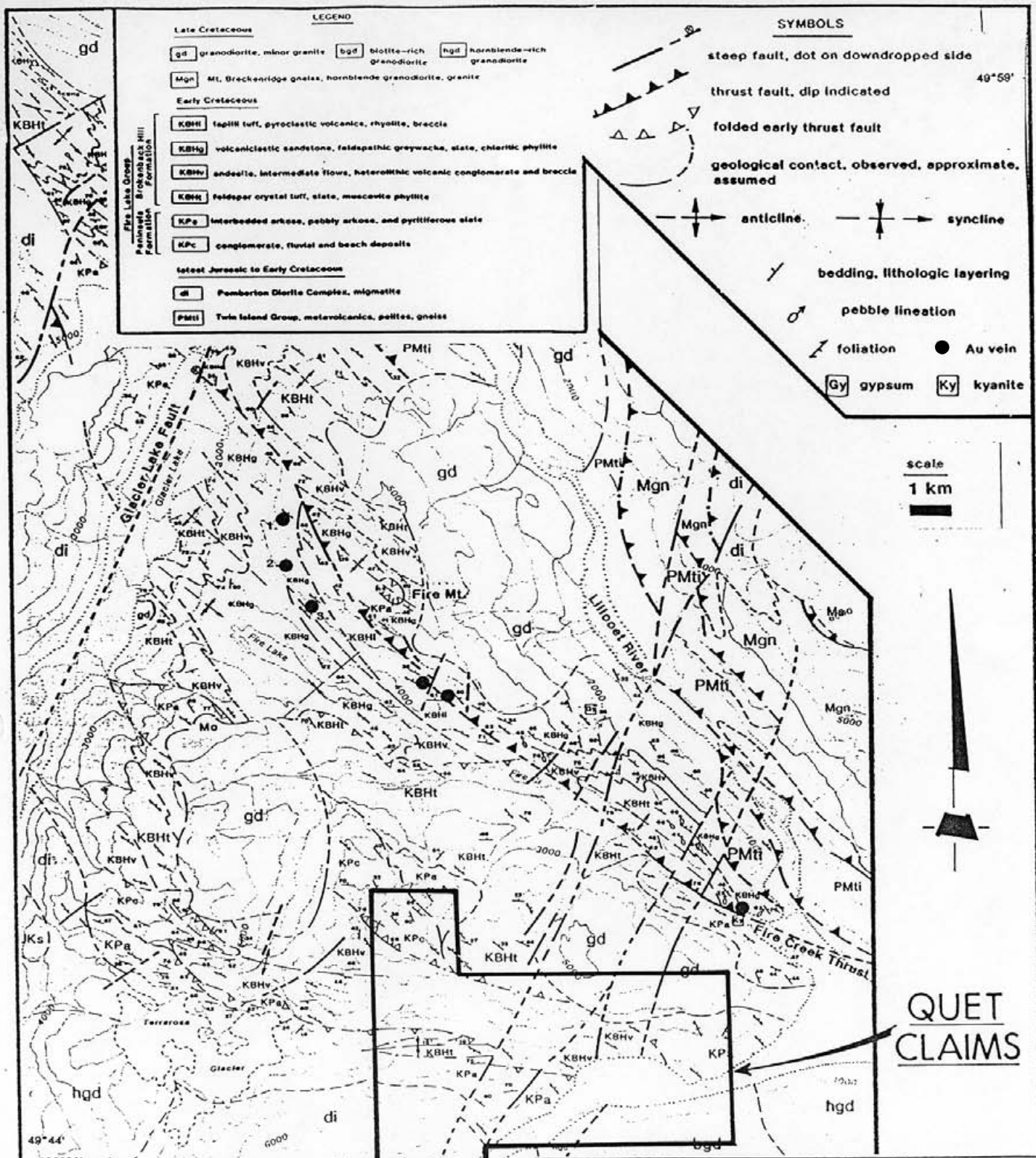
3.0 GEOLOGY

3.1 Regional Geology

The earliest reported geological mapping of the North Harrison Lake areas was of the Vancouver North Map Area by J.E. Armstrong and J.A. Roddick of the G.S.C. during the period 1948 to 1955. The work is culminated in the G.S.C. Memoir 335 "Vancouver North, Coquitlam, and Pitt Lake Map Areas, B.C." by J.A. Roddick. More recent mappings by J.M. Journeay, L. Csontos and J.V.G. Lynch from 1988 to 1989 have detailed the geology of North Harrison Lake area which includes the Quet property. A recently published open file (O.F. #2203) summarized the results of that mapping, (Figure 4).

The Gambier Group which underlies the Quet property is an Early Cretaceous sedimentary-volcanic sequence deposited in an island arc setting. Included are the Peninsula Formation, a basal, fining upward sedimentary sequence deposited in a fluvial to marine shelf environment. An overlying Brokenback Hill Formation is a complex volcanic sequence of subaqueous autoclastic and epiclastic rocks which are mainly intermediate in composition but include rhyolites and basalts.

Two phases of thrusting related to Late Cretaceous oblique convergence along the continental margin and Tertiary Aged dextral and normal dip-slip faulting are the major structural events. Metamorphism to greenschist grade or lower has also occurred within the Gambier Group rocks.



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Km. 2.5 1.25 0 2.5 5.0 Km.

REVISED	QUET PROJECT	
	REGIONAL GEOLOGY	
PROJ. No. 126	SURVEY BY: R.G.W.	DATE: OCT./1990
N.T.S. 92G/9.16	DRAWN BY: J.S.	SCALE: 1:125000
DWG. No. 4	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	

4.0 DIAMOND DRILLING

Diamond drilling, totalling 1251.9 m in 7 holes was performed on the Southridge Zone of the Quet claims. The targets were combined geological, soil & rock geochemical and I.P. & Mag geophysical anomalies downdip of surface showings. Four holes tested the three combined anomalies, one hole was a test of soil geochemistry plus I.P. chargeability in an area of no outcrop and one hole tested the downdip extension of a previous drill hole intersection. One hole was lost in a fault zone and abandoned. The core is stored on the property at the 1500 Zone grid co-ordinates 314+50E; 302+25N.

The drill programme identified the source of soil and rock gold and silver geochemical values to be within sphalerite/galena rich quartz veinlet and flood zones primarily hosted by highly silicified felsic and intermediate lapilli tuffs. Quartz veinlet and flood zones are not seen within andesite dykes hence the later are thought to be post mineral intrusives.

The mineralized zone tested occurs between Section 308+00E (DDH NQ90-5) to Section 314+00E (NQ 90-4) with results of 343 ppb Au/13.5 m to 615 ppb Au/66 m respectively. The best intersection was in NQ90-2 with 838 ppb Au/57.7 m.

The source area of the quartz vein/flood zones was not discovered during drilling. Further investigation of this zone should be directed towards locating same in an effort to find smaller tonnage, higher grade mineralization.

Table 2 lists the drill collar co-ordinates and final hole depths.

Table 2 lists the drill collar co-ordinates and final hole depths.

TABLE 2: DRILL HOLE CO-ORDINATES

<u>DDH #</u>	<u>LATITUDE</u>	<u>DEPARTURE</u>	<u>ELEV.</u>	<u>AZIMUTH</u>	<u>DIP</u>	<u>T.D. (m)</u>
NQ90-1	303+35N	310+83E	746 m	360°	-85°	160.6
NQ90-2	300+12N	308+86E	950 m	360°	-45°	218.2
NQ90-3	300+38N	311+01E	882 m	360°	-50°	276.5
NQ90-4	301+06N	314.00E	833 m	360°	-52°	133.2
NQ90-5	299+71N	308+09E	970 m	360°	-60°	215.2
NQ90-6	300+10N	308+84E	950 m	-	-90°	54.0
NQ90-7	300+13N	308+89E	950 m	-	-90°	194.2

						<u><u>1251.9</u></u>

Drill collar locations and surface projections are shown on Figure 5.

4.1 Results

Diamond drill logs for Holes NQ90-1 to 7 are contained in Appendix III.

NQ90-1:

DDH NQ90-1 was drilled from the access road on Section 311+00E (Figure 6). The target was a combined I.P. and Zn-Au soil geochemical anomaly. No outcrop had been mapped in this area.

The drill hole intersected a sequence of intermediate lapilli (nodular) tuffs crosscut by several large andesitic dykes. The lapilli tuffs are highly pyritic (5-12%) and correlate well with the I.P. responses. The soil geochemical anomaly could not be

explained by results of NQ90-1 hence a larger downslope dispersion pattern than previously believed is suggested with the source of the anomalous Zn-Au response uphill of NQ90-1.

NQ90-2

DDH NQ90-2 was drilled from the spine of Southridge on Section 309+00E to test rock and soil geochemical anomalies coincident with I.P. highs. It intersected a sequence of highly siliceous, felsic, (\pm lapilli), (\pm fragmental) tuffs cross-cut by numerous andesitic dykes and an andesitic lapilli (nodular) tuff. Alteration is intense, pervasive silicification, and is common to all holes. Mineralization consists of disseminated pyrite throughout and sphalerite and galena contained within quartz flood and veinlet zones. Au and Ag values are generally coincident with the Zn and Gn. Highest values (in separate samples) were 5.06% Zn/1.5 m, 0.92% Pb/1.5 m, 131.0 gm Ag/1.5 m and 3.6 gm Au/1.5 m. The best sustained intersection was 839 ppb Au/57.7 m.

All target anomalies were explained by this hole which contains the best intersections of the drill programme. The hole was stopped short of it's planned depth due to continuous losses of downhole water pressure and a bit crown broken at the bottom of the hole.

NQ90-3

DDH NQ90-3 was also drilled from the spine of Southridge on Section 311+00E (Figure 9). It tested coincident soil and rock geochemical anomalies with I.P. chargeability highs. It was extended to test a second I.P. anomaly with coincident Pb-Zn soil geochemical highs.

The drill hole intersected a similar lithological sequence as NQ90-2 of siliceous felsic (\pm lapilli) (\pm fragmental) tuffs, andesitic dykes and "upper" andesitic lapilli (nodular) tuffs. The drill hole bottomed in a "basal" andesitic lapilli (nodular) tuff not seen in NQ90-2 (due to it's fore-shortened length).

Mineralization in this hole is principally sphalerite-galena in quartz flood and vein zones seen mainly at the top of the hole. Best results in a single sample ran 2.32% Zn, 0.41% Pb, 0.47% Cu, 46.2 gm Ag and 2.25 gm Au over 1.5 m. The best sustained intersection was 776 ppb Au/25.2 m.

All I.P. anomalies were explained by this hole as was the upper soil and rock geochemical anomaly. The lower soil anomaly centred on 303+25N was not explained by drilling and is now thought to be caused by down slope movement.

NQ90-4

DDH NQ90-4 was drilled on Section 314+00E (Figure 10), from the widest part of the Southridge spine under the 1500 trenches area to test highly anomalous trench rock results in Aranlee's 1989 work programme. Also tested was a coincident I.P. chargeability zone flanking the area of known mineralization.

The drill hole intersected similar lithology to Holes NQ90-2 and 3 with a siliceous felsic (\pm lapilli) (\pm fragmental) tuff intruded by andesitic dykes and interbedded with an andesitic lapilli (nodular) tuff. Sphalerite and galena are present from trace to 1% over 1.5 m lengths occurring mainly within quartz flood/veinlet zones, especially from 78.3 m to 91.2 m. Gold values are associated with the quartz zones as are silver values. Best results for individual elements are 2.65% Zn/0.3 m, 0.45% Pb/0.3 m, 0.25% Cu/0.3 m, 161.8 gm Ag/0.3 m (Zn, Pb, Cu, Ag same sample) and 1.55 gm Au/1.5 m. Best sustained result for gold was 615 ppb Au/66 m.

All I.P. and geochemical targets were explained by this hole, however, the stratigraphic similarities in Holes NQ90-2, 3 and 4 indicate that a second lesser mineralized horizon potentially would have been intersected by an extension of NQ90-4 to 200 m depth. The quiet soil geochemical signatures indicate that this zone would only be weakly mineralized.

NQ90-5

DDH NQ90-5 was drilled on Section 308+00N (Figure 11), to undercut anomalous soil geochemistry on strike with a favourable intersection in NQ90-2. No I.P. surveying was completed on this section.

The drill hole intersected uphole sections of fine grained siliceous felsic tuffs which were finer grained than in NQ90-2. Below are sections of siliceous, felsic (\pm lapilli) (\pm fragmental) tuff crosscut by post mineral andesitic dykes and interbedded with an andesitic lapilli (nodular) tuff.

Pyrite is ubiquitous from 1 to 5% and sphalerite (\pm galena) is present in quartz vein and flood zones from trace to 3% over sample widths to 1.5 m. Best results for individual elements (in separate samples) are 1.83% Zn/1.5 m, 0.83% Pb/1.5 m, 0.17% Cu/1.5 m, 22.1 gm Ag/1.5 m and 870 ppb Au/1.5 m. Best sustained Au results are 343 ppb Au/13.5 m.

The mineralized zone in NQ90-5 is weak in comparison to NQ90-2 but does occur at the same physical (downdip) location as Hole #2. By comparing Au results in these two holes it is apparent that the potential mineralized horizon should continue in NQ90-5 to approximately 245 m down hole, another 30 m beyond the present end of hole, but is not expected to be stronger than that cored as the surface geochemical values drop off updip from the hole's present termination.

NQ90-6

DDH NQ90-6 was drilled vertically beneath NQ90-2 on Section 309+00E, (Figures 7 & 8), to test the downdip extension of Hole #2's mineralized horizon. The hole was abandoned at 54 m after a fault zone at 34 m caused excessive squeezing on the rods. Several attempts to wash the hole were unsuccessful and two bits were destroyed trying to re-penetrate the fault zone.

The hole was drilled along the contact of siliceous felsic tuffs with a near vertically dipping andesite dyke. No mineralization was encountered throughout it's length.

NQ90-7

DDH NQ90-7 was a re-drill of NQ90-6 on Section 309+00E, (Figures 7 & 8) in an attempt to penetrate the fault zone in order to test NQ90-2's downdip extension of mineralization. Although the fault zone was intersected, like Hole #2, no problems were encountered coring through it.

The drill hole intersected similar lithology to the top of NQ-90-2, that being siliceous, felsic (\pm lapilli) (\pm fragmental) tuff down as far as 105 m. At 105 m a quartz-carbonate fracture (fault ?) zone separates felsic lithology from andesitic lapilli (nodular) tuff just above the anticipated intersection of the mineralized horizon. No mineralization was found and it is felt that a block of the basal tuff was faulted in, disrupting the mineralized sequence.

The hole was terminated once the projected downdip extension of the mineralized horizon had been penetrated. In other holes the mineralized horizon crosscut several lithologies (except andesite dykes) hence it was anticipated that the horizon would be cored in Hole #7. A fault disruption is therefore suspected for the absence of the expected mineralization.

4.2 Discussion

Drill holes NQ90-4, 3, 2 and 5 (east to west) showed similar stratigraphic sequences of silicified felsic (\pm lapilli) (\pm fragmental) tuffs of probable dacitic to rhyolitic origin, interbedded with and floored by an andesitic lapilli (nodular) tuff. All rocks are cut by numerous andesitic dykes. A few intervals of andesitic tuff are recognized but it is not a common rock type. All rocks are moderately to highly silicified, and fracturing/faulting is relatively common. Frequent open spaces not easily evident in drill core was noted due to downhole losses of water pressure during drilling. All significant mineralization is found in these four holes.

Drill hole NQ90-1 tested down-stratigraphy from Holes # 2 to 5 and found andesitic lapilli (nodular) tuffs with large andesitic dyke intervals. No economic mineralization was encountered. Drill holes NQ90-6 & 7 tested downdip of Hole #2 and cored a top section of felsic tuffs and a bottom (faulted in?) section of nodular tuffs. Limited economic mineralization was discovered.

The diamond drill programme tested downdip projections of coincident soil geochemical anomalies/mineralized outcrop exposures and I.P. chargeability anomalies between Sections 308+00E and 314+00E. Best Au results were obtained in Holes NQ90-2 (839 ppb Au/57.5 m), NQ90-3 (776 ppb Au/25.2 m) and NQ90-4 (615 ppb Au/66 m) on Sections 309+00E, 311+00E and 314+00E respectively. Based upon similar soil geochemical values and sampling of limited outcropping on the intermediate lines a similar set of results would be expected were they to be drilled.

Gold mineralized zones, recognized by the presence of sphalerite and galena, are found within quartz flooded and veined drill core. This quartz alteration is seen in both siliceous felsic tuffs and andesitic lapilli (nodular) tuffs but is not seen in the numerous andesitic dykes. The mineralization is not diminished by the extensive, pervasive silicification hence is felt to be contemporaneous to post with silicic alteration, and pre-

volcanic dyking. The source area of the mineralization, however, was not discovered in drill core.

Mineralization is felt to be related to hydrothermal activity associated with the igneous intrusions which have been mapped on the property. The model envisioned is that of circulating hydrothermal fluids peripheral to igneous bodies producing pervasive silica ± potassium feldspar alteration. Additional silica infusion causing quartz veinlets and quartz flood zones form specific zones are more common within felsic tuffs but are not restricted to them. A permeable-host argument is therefore not as supported as a structural ground preparation argument. Numerous fracture zones were noted in drill core which may be related to mineralization although no specific relations could be drawn from this initial drill programme. Any future drilling should concentrate equally on a structural log.

Drill targeting of N to NW trending structural zones is also recommended to ascertain if smaller, higher grade mineralization exists within these potentially major plumbing systems. Because these structural zones may also be a late stage artifact attempts should be made to determine the timing of these features.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The Southridge Zone represented a prime drilling target and was tested on several sections between L.305+00E and L.315+00E both within the blue-grey silicified felsic tuff and also within the high sulphide purple lapilli tuff near L.312+00E to 314+00E. Seven diamond drill holes tested four sections within anomalous geological-geochemical-geophysical survey responses. Best Au results were found in Holes NQ90-2 (839 ppb Au/57.5 m), NQ90-3 (776 ppb Au/25.2 m) and NQ90-4 (615 ppb Au/66 m) on Sections 309+00E, 311+00E and 314+00E respectively. There is no evidence to suggest that intervening sections would not contain similar results.

A moderate tonnage, very low grade gold-silver deposit has been indicated by drilling to date, however, gold grades between 0.6 and 0.8 gmt Au are not considered economic when gold is the primary target. It is therefore recommended that other targets on the property be examined as a grassroots project to determine if the gold system operational on the Southridge Zone exists elsewhere on the property.

APPENDIX I
ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL
ASSESSMENT REPORTS (NORANDA) + ACME

**AA ACME ANALYTICAL
LL LABORATORIES LTD.**

Assaying
and
Geochemical
Analyses

24 hr. per day operation

Effective: December 1, 1989

Sample Preparation

<u>Code</u>	<u>Description</u>	<u>Cost</u>
S80	Dry soil or silt up to 2 lbs at 60 deg. Cent. sieve approx. 30 g of -80 mesh (other size upon request)	\$0.85
SJ	Save part or all reject	\$0.45
S20R	Dry soil or silt up to 2 lbs at 60 deg. Cent. sieve and pulverize -20 mesh (other size on request)	\$1.50
SP	Dry soil and silt at 60 deg. Cent. Pulverize (approx. 100 g)	\$1.50
RP100	Crush rock or core to approx. -3/16" up to 10 lbs, split to approx. 1/2, pulverize to -100 mesh	\$3.00
CR	Crushing over 10 lbs	\$0.25/lb
2PX	Pulverize over 1/2 lb	\$1.00/lb
RPS100	Crush rock or core, sieve to -100 mesh and save + 100 mesh as reject (approx. 200g -100 mesh)	\$3.75
RPS1001/2	Same as RPS100, except pulverize 1/2 sample; additional pounds	\$1.40/lb
RPS100 A	Same as RPS 100 1/2, except pulverize entire sample; additional	\$1.40/lb
OP	Compositing pulps - each pulp Mixing & pulverizing composite	\$0.50 \$1.50
HM	Heavy mineral separation - S.G 2.96 + wash -20 mesh	\$12.00
V1	Drying vegetable & pulverizing 50g to -80 mesh	\$3.00
V2	Ashing up to 1 lb wet vegetation at 475 deg.Cent.	\$2.00
H1	Special handling	\$17.00/hr

Sample Storage

Rejects - approx. 2 lbs of rock or total core are stored for three months at no charge. Discard after 3 months unless claimed.

Pulps - stored for one year at no charge. Discard after one year unless claimed.

Additional storage - for 3 years \$10/1.2 cu.ft box
or 15 cents/sample pulp
or 5 cents/sample soil

Geochemical analyses

(rocks & soils)

Group 1 Digestion

0.5 gm sample is digested with 3 mls 3-1-2 HCL-HNO₃-H₂O at 95 degree Cent. for one hour and is diluted to 10 mls with water. This leach is near total for base metals, partial for rock forming elements and very slight for refractory elements. Solubility limits Ag, Pb, Sb, Bi, W for high grade samples.

Group 1 B - Hydride Generation of volatile elements and analysis by ICP

<u>Element</u>	<u>Detection</u>	
Arsenic	0.1 ppm	
Antimony	0.1 ppm	
Bismuth	0.1 ppm	First element \$4.75
Germanium	0.1 ppm	All elements \$5.50
Selenium	0.1 ppm	
Tellurium	0.1 ppm	

Digestion: Aqua Regia + HF digestion

Group 1 C Hg

Hg in solution is determined by cold vapour AA using a F & J scientific Hg assembly. An aliquot of the solution is added to a stannous chloride/hydrochloric acid solution. Reduced Hg is passed through as vapour into the Hg cell where it is measured by AA.

Detection limit: 5 ppb

Price: \$2.50

Group 1 D ICP (Multi-element) Analysis

30 element

Element

Detection

Ag	0.1 ppm
Cd, Co, Cr, Cu, Mo, Mn, Ni, Sr, Zn	1 ppm
As, Au, B, Ba, Bi, La, Pb, Sb, Th, V, W	2 ppm
U	5 ppm
Al, Ca, Fe, K, Mg, Na, P, Ti	0.01 %

Price: \$ 3.25

31 elements

All of the above 30 elements plus TL \$3.95

Detection limit: 5 ppm

Note: other elements, such as Be, Cs, Li, Nb, Sn, Y, Zr by AA or ICP available on request.

APPENIDX II
CERTIFICATES OF ANALYSIS

NORANDA EXPLORATION CO., LTD.

DIAMOND DRILL HOLE SAMPLE SUMMARY

PROJ : QUET

NTS : 92G/9

PAGE: 1 of 1

PROJ.#: 126

HOLE #: NQ90-1

DATE: 13 Sept/90

<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
018776 DR	6.09	7.62	1.52	018796 DR	82.90	84.42	1.52
018777 DR	13.10	14.32	1.52	018797 DR	84.42	85.95	1.52
018778 DR	15.84	17.37	1.52	018798 DR	85.95	87.47	1.52
018779 DR	22.25	23.77	1.52	018799 DR	87.47	89.0	1.52
018780 DR	28.04	29.56	1.52	018800 DR	89.0	89.91	0.91
018781 DR	32.61	34.13	1.52	018801 DR	89.91	90.83	0.91
018782 DR	36.27	37.79	1.52	018802 DR	90.83	92.35	1.52
018783 DR	42.36	43.89	1.52	018803 DR	92.35	93.87	1.52
018784 DR	47.85	49.37	1.52	018804 DR	93.87	95.40	1.52
018785 DR	53.94	55.47	1.52	018805 DR	95.40	96.92	1.52
018786 DR	60.04	61.56	1.52	018815 DR	124.05	125.57	1.52
018787 DR	64.61	66.14	1.52	018816 DR	125.57	127.10	1.52
018788 DR	69.18	70.10	1.52	018817 DR	127.10	128.62	1.52
018789 DR	72.23	73.76	1.52	018818 DR	128.62	130.14	1.52
018790 DR	73.76	75.28	1.52	018819 DR	130.14	131.67	1.52
018791 DR	75.28	76.80	1.52	018820 DR	131.67	133.19	1.52
018792 DR	76.80	78.33	1.52	018821 DR	133.19	134.72	1.52
018793 DR	78.33	79.85	1.52				
018794 DR	79.85	81.38	1.52				
018795 DR	81.38	82.40	1.52				

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
018888 DR	5	110	30	224	.9	13	11	333	3.53	16	5	ND	1	3	1.5	2	2	26	.21	.049	2	18	1.99	42	.03	2	1.71	.02	.57	1	16
018889 DR	6	103	82	282	3.7	23	27	162	6.26	19	5	ND	1	2	1.4	2	2	17	.21	.067	2	13	1.04	24	.02	2	1.15	.01	.55	1	610
018890 DR	5	137	88	1260	4.8	31	25	61	5.53	30	5	ND	1	2	8.8	2	2	12	.18	.055	2	11	.22	22	.01	3	.56	.01	.24	1	64
018891 DR	2	93	21	242	.7	20	16	452	4.82	5	5	ND	1	96	1.7	2	2	145	2.18	.099	3	34	1.28	65	.18	2	2.96	.28	.21	1	34
018892 DR	2	66	13	126	.6	21	14	336	4.14	5	5	ND	1	82	.9	2	2	126	2.46	.100	4	21	.72	23	.17	5	2.42	.25	.05	1	5
018893 DR	2	83	17	113	.6	18	16	330	4.11	5	5	ND	1	87	1.0	2	2	120	2.15	.100	3	25	.83	33	.18	2	2.24	.24	.09	1	1
018894 DR	2	114	23	200	.7	32	18	529	4.50	8	5	ND	1	85	1.7	2	2	115	2.03	.086	3	53	1.40	69	.18	5	2.88	.30	.31	1	11
018895 DR	1	124	15	258	.8	20	17	548	4.76	4	5	ND	1	69	2.2	2	2	120	2.11	.096	3	28	1.16	23	.21	2	2.19	.20	.08	1	1
018896 DR	2	138	25	320	.7	21	17	564	4.74	7	5	ND	1	59	2.3	2	2	114	1.68	.088	3	28	1.70	43	.19	2	2.40	.18	.23	1	1
018897 DR	2	167	24	261	.9	49	21	555	4.39	8	5	ND	1	92	1.3	2	2	119	2.32	.061	2	89	2.21	84	.18	2	3.61	.37	.56	1	1
018898 DR	4	185	15	706	1.5	20	19	413	4.79	18	5	ND	1	6	5.5	2	2	51	.38	.055	2	23	2.42	33	.02	2	1.98	.02	.28	1	111
018899 DR	2	34	14	229	.3	13	19	505	4.49	15	5	ND	1	3	.5	2	2	74	.27	.058	2	27	3.36	36	.05	4	2.77	.02	.50	1	48
018941 DR	7	2821	9225	32336	40.4	15	10	521	5.68	131	5	5	1	4	208.3	14	2	23	.21	.028	2	11	.90	15	.06	2	.93	.02	.30	25	3600
018942 DR	3	512	760	356	4.4	73	25	827	5.72	19	5	ND	1	321	2.5	2	4	129	3.29	.078	2	105	2.79	49	.21	2	5.80	.28	1.58	1	15
018943 DR	8	217	672	982	4.1	18	18	1071	4.03	24	5	ND	1	10	5.7	6	2	54	.54	.056	2	10	1.89	48	.17	2	1.83	.05	.83	1	520
018944 DR	4	591	3942	7712	15.0	13	16	1351	4.09	39	5	ND	1	4	52.6	11	2	54	.30	.060	2	10	2.21	38	.16	2	2.23	.03	1.27	1	920
018945 DR	2	50	129	397	.4	7	4	807	1.57	7	6	ND	1	9	2.1	2	2	15	.51	.050	3	6	.57	23	.01	2	.69	.07	.09	1	1
018946 DR	6	807	1846	5201	8.6	16	18	1040	4.52	36	5	ND	1	3	33.4	14	2	50	.28	.053	2	9	1.78	30	.11	4	1.67	.02	.95	3	1060
018947 DR	3	276	428	1343	3.2	45	23	1360	4.75	18	5	ND	1	30	7.8	2	2	106	1.45	.051	2	75	3.03	46	.16	2	3.68	.11	1.58	1	250
018948 DR	5	298	648	2721	3.2	10	16	1512	4.87	19	5	ND	1	3	18.0	2	3	89	.35	.047	2	17	2.92	26	.18	2	2.86	.02	1.68	1	40
018949 DR	7	278	373	1356	3.0	11	19	1173	4.21	18	5	ND	1	3	8.1	2	2	78	.26	.045	2	16	2.18	28	.13	2	2.01	.02	1.26	1	290
STANDARD C/AU-R	18	62	38	130	6.7	69	31	1059	4.00	45	17	7	37	52	19.2	14	17	55	.49	.093	36	56	.91	180	.07	37	1.90	.06	.14	13	550

/ ASSAY RECOMMENDED

NORANDA EXPLORATION CO., LTD.

DIAMOND DRILL HOLE SAMPLE SUMMARY

PROJ : QUET

NTS : 92G/9

PAGE: 1 of 3

PROJ.#: 126

HOLE #: NQ90-1

DATE: Sept. 19/90

<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
018806 DR	96.92	98.45	1.52	018834 DR	149.96	151.63	1.52
018807 DR	98.45	99.97	1.52	018835 DR	154.53	156.05	1.52
018808 DR	99.97	101.49	1.52	018836 DR	157.58	159.10	1.52
018809 DR	101.49	103.02	1.52	018837 DR	49.37	50.14	1.52
018810 DR	103.02	104.54	1.52	018838 DR	50.14	50.90	1.52
018811 DR	104.54	106.07	1.52	018839 DR	50.90	52.42	1.52
018812 DR	106.07	107.59	1.52	018840 DR	52.42	53.94	1.52
018813 DR	108.81	110.33	1.52	018841 DR	55.46	56.98	1.52
018814 DR	114.90	116.43	1.52	018842 DR	56.98	58.5	1.52
018822 DR	134.72	136.24	1.52	018843 DR	58.5	60.02	1.52
018823 DR	136.24	137.76	1.52	018844 DR	61.56	63.09	1.52
018824 DR	137.76	139.59	1.52	018845 DR	63.09	64.61	1.52
018825 DR	139.59	141.12	1.52	018846 DR	66.14	67.43	1.29
018827 DR	141.12	142.34	1.52	018847 DR	67.43	69.18	1.75
018828 DR	142.34	143.86	1.52	018848 DR	70.10	71.93	1.83
018829 DR	143.86	145.83	1.52	018849 DR	71.93	72.23	0.3
018830 DR	145.38	146.30	1.52	018850	151.63	153.15	1.52
018831 DR	146.30	146.91	0.61	018851	153.15	154.53	1.38
018832 DR	146.91	148.43	1.52	018852	156.05	157.58	1.52
018833 DR	148.43	149.96	1.52				

NORANDA EXPLORATION CO., LTD.

DIAMOND DRILL HOLE SAMPLE SUMMARY

PROJ : QUET

NTS : 92G/9

PAGE: 2 of 3

PROJ.#: 126

HOLE #: NQ90-2

DATE: Sept. 15/90

<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
018855 DR	5.2	6.7	1.5	018875 DR	36.1	37.6	1.5
018856 DR	6.7	8.2	1.5	018876 DR	37.6	39.1	1.5
018857 DR	8.2	9.7	1.5	018877 DR	39.1	40.6	1.5
018858 DR	9.7	11.2	1.5	018878 DR	40.6	42.1	1.5
018859 DR	11.2	12.7	1.5	018879 DR	42.1	43.9	1.8
018860 DR	12.7	14.2	1.5	018880 DR	43.9	45.4	1.5
018861 DR	14.2	15.7	1.5	018881 DR	45.4	46.9	1.5
018862 DR	15.7	17.2	1.5	018882 DR	46.9	48.4	1.5
018863 DR	17.2	18.7	1.5	018883 DR	48.4	49.9	1.5
018864 DR	18.7	20.2	1.5	018884 DR	49.9	51.7	1.8
018865 DR	20.2	21.7	1.5	018885 DR	51.7	52.8	1.1
018866 DR	21.7	22.9	1.2	018886 DR	52.8	54.3	1.5
018867 DR	22.9	24.4	1.5	018887 DR	54.3	55.6	1.3
018868 DR	26.2	27.7	1.5	018888 DR	55.6	57.1	1.5
018869 DR	27.7	29.2	1.5	018889 DR	57.1	58.6	1.5
018870 DR	29.2	30.7	1.5	018890 DR	58.6	59.6	1.0
018871 DR	30.7	32.2	1.5	018891 DR	59.6	61.1	1.5
018872 DR	32.2	33.7	1.5	018892 DR	61.1	62.6	1.5
018873 DR	33.7	35.5	1.8	018893 DR	62.6	64.1	1.5
018874 DR	35.5	36.1	0.6	018894 DR	64.1	65.6	1.5

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	Tl %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
018937 DR	5	519	3426	17248	11.4	12	11	677	3.53	34	5	ND	1	9	101.0	8	2	76	.31	.030	2	29	1.47	55	.11	2	1.58	.03	.89	1	1420
018938 DR	4	248	268	730	3.0	11	14	1006	4.50	22	5	ND	1	4	5.8	3	2	91	.20	.045	2	50	2.39	40	.17	2	2.46	.04	1.54	1	310
018939 DR	15	356	291	1594	2.8	14	13	779	4.17	32	5	ND	1	4	10.3	6	3	55	.30	.049	2	22	1.82	39	.11	4	1.77	.03	.95	1	210
018940 DR	6	372	159	1278	3.1	16	14	782	4.01	43	5	ND	1	3	7.6	2	2	42	.23	.054	2	38	1.62	47	.12	2	1.66	.02	1.04	1	760
STANDARD C/AU-R	18	60	39	131	7.0	72	31	1058	3.98	40	21	7	37	52	18.6	15	20	55	.52	.099	38	59	.90	180	.07	36	1.90	.06	.13	13	540

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

RR Assays
Quiet

DATE RECEIVED: SEP 25 1990

DATE REPORT MAILED: *Oct. 1/90*

ASSAY CERTIFICATE

Noranda Exploration Co. Ltd. PROJECT 9009-051 126 FILE # 90-4587R

SAMPLE#	Au** oz/t
018911 DR	.073
018912 DR	.009
018913 DR	.015
018914 DR	.013
018915 DR	.046
018916 DR	.008
018917 DR	.040
018918 DR	.016
018919 DR	.076
018920 DR	.001
018921 DR	.007
018922 DR	.014
018923 DR	.024
018924 DR	.010
018925 DR	.031
018926 DR	.029
018927 DR	.032
018928 DR	.023
018929 DR	.044
018930 DR	.026
018937 DR	.037
018940 DR	.008
STANDARD AU-1	.100

AU** BY FIRE ASSAY FROM 1 A.T.
SAMPLE TYPE: CORE PULP

SIGNED BY *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO., LTD.

DIAMOND DRILL HOLE SAMPLE SUMMARY

PROJ : QUET

NTS : 92G/9

PAGE: 1 of 2

PROJ.#: 126

HOLE #: NQ90-2

DATE: Sept. 18/90

<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
018900 DR	72.9	74.4	1.5	018920 DR	100.6	101.6	1.0
018901 DR	74.4	75.9	1.5	018921 DR	101.6	103.1	1.5
018902 DR	75.9	76.5	0.6	018922 DR	103.1	104.6	1.5
018903 DR	76.5	78.0	1.5	018923 DR	104.6	106.1	1.5
018904 DR	78.0	79.5	1.5	018924 DR	106.1	107.6	1.5
018905 DR	79.5	81.0	1.5	018925 DR	107.6	109.1	1.5
018906 DR	81.0	82.5	1.5	018926 DR	109.1	110.6	1.5
018907 DR	82.5	84.0	1.5	018927 DR	110.6	112.1	1.5
018908 DR	84.0	85.5	1.5	018928 DR	112.1	113.6	1.5
018909 DR	85.5	86.7	1.2	018929 DR	113.6	114.9	1.3
018910 DR	86.7	87.2	0.5	018930 DR	114.9	115.6	0.7
018911 DR	87.2	88.7	1.5	018931 DR	115.6	118.4	2.8
018912 DR	88.7	90.2	1.5	018932 DR	118.4	119.9	1.5
018913 DR	90.2	91.7	1.5	018933 DR	DOES	NOT	EXIST
018914 DR	91.7	93.2	1.5	018934 DR	119.9	121.4	1.5
018915 DR	93.2	94.9	1.7	018935 DR	121.4	122.2	0.8
018916 DR	94.9	96.3	2.9	018936 DR	122.2	123.3	1.1
018917 DR	96.3	97.8	1.5	018937 DR	123.3	124.8	1.5
018918 DR	97.8	99.3	1.5	018938 DR	124.8	126.3	1.5
018919 DR	99.3	100.6	1.3	018939 DR	126.3	127.8	1.5

NORANDA EXPLORATION CO., LTD.

DIAMOND DRILL HOLE SAMPLE SUMMARY

PROJ : QUET

NTS : 92G/9

PAGE: 1 of 3

PROJ.#: 126

HOLE #: NQ90-2

DATE: Sept. 21/90

<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
018950 DR	143.4	144.9	1.5	018970 DR	172.6	174.1	1.5
018951 DR	144.9	146.4	1.5	018971 DR	174.1	175.6	1.5
018952 DR	146.4	147.9	1.5	018972 DR	175.6	177.1	1.5
018953 DR	147.9	149.4	1.5	018973 DR	177.1	178.3	1.2
018954 DR	149.4	150.9	1.5	018974 DR	178.3	179.5	1.2
018955 DR	150.9	152.4	1.5	018975 DR	179.5	181.0	1.5
018956 DR	152.4	153.9	1.5	018976 DR	181.0	182.5	1.5
018957 DR	153.9	155.4	1.5	018977 DR	182.5	184.0	1.5
018958 DR	155.4	156.9	1.5	018978 DR	184.0	185.5	1.5
018959 DR	156.9	158.4	1.5	018979 DR	185.5	187.0	1.5
018960 DR	158.4	159.9	1.5	018980 DR	187.0	188.5	1.5
018961 DR	159.9	161.1	1.2	018981 DR	188.5	190.0	1.5
018962 DR	161.1	162.9	1.8	018982 DR	190.0	191.5	1.5
018963 DR	162.9	164.0	1.1	018983 DR	191.5	192.2	.7
018964 DR	164.0	165.1	1.1	018984 DR	192.2	193.7	1.5
018965 DR	165.1	166.6	1.5	018985 DR	193.7	195.0	1.3
018966 DR	166.6	168.1	1.5	018986 DR	195.0	196.5	1.5
018967 DR	168.1	169.6	1.5	018987 DR	196.5	198.0	1.5
018968 DR	169.6	171.1	1.5	018988 DR	198.0	199.3	1.3
018969 DR	171.1	172.6	1.5	018989 DR	199.3	201.3	2.0

NORANDA EXPLORATION CO., LTD.

DIAMOND DRILL HOLE SAMPLE SUMMARY

PROJ. : QUET

NTS : 92G/9

PAGE: 3 of 3

PROJ.#: 126

HOLE #: NQ90-3

DATE: Sept. 23/90

<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
019008 DR	19.2	20.7	1.5	019028 DR	49.2	50.2	1.5
019009 DR	20.7	22.2	1.5	019029 DR	50.2	52.2	1.5
019010 DR	22.2	23.7	1.5	019030 DR	52.2	53.4	1.2
019011 DR	23.7	25.2	1.5				
019012 DR	25.2	26.7	1.5				
019013 DR	26.7	28.2	1.5				
019014 DR	28.2	29.2	1.5				
019015 DR	29.2	31.2	1.5				
019016 DR	31.2	32.7	1.5				
019017 DR	32.7	34.2	1.5				
019018 DR	34.2	35.7	1.5				
019019 DR	35.7	37.2	1.5				
019020 DR	37.2	38.7	1.5				
019021 DR	38.7	40.2	1.5				
019022 DR	40.2	41.7	1.5				
019023 DR	41.7	43.2	1.5				
019024 DR	43.2	44.7	1.5				
019025 DR	44.7	46.2	1.5				
019026 DR	46.2	47.7	1.5				
019027 DR	47.7	49.2	1.5				

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	Tl %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
019059 DR	28	119	44	162	.5	18	15	623	4.93	9	5	ND	1	30	.2	2	2	103	.69	.043	2	37	3.76	71	.06	2	3.47	.06	.67	1	35
019060 DR	1	15	8	127	.2	5	11	806	4.82	10	5	ND	1	15	.2	2	2	70	1.62	.064	2	9	3.43	73	.04	2	2.80	.02	.52	1	6
019061 DR	8	117	11	111	.3	7	11	625	4.42	9	5	ND	1	4	.2	2	2	63	.31	.068	2	6	3.82	56	.04	2	2.86	.01	.52	1	4
019062 DR	9	76	15	117	.4	4	9	432	3.89	18	5	ND	1	4	.2	2	2	33	.44	.054	3	8	1.76	60	.04	2	1.51	.01	.49	1	7
019063 DR	4	80	44	176	.4	8	11	444	4.04	22	5	ND	1	5	.2	2	2	47	.39	.061	3	11	2.04	71	.07	2	1.75	.02	.75	1	9
019064 DR	11	78	25	133	.4	7	10	510	3.88	13	5	ND	1	5	.2	2	2	46	.46	.060	4	9	1.98	96	.07	2	1.77	.02	.77	1	19
019065 DR	10	131	45	242	.6	8	9	364	3.68	19	5	ND	1	4	.2	2	2	38	.39	.052	3	10	1.39	86	.05	2	1.25	.02	.56	1	20
019066 DR	8	268	48	255	1.3	7	9	488	3.42	6	5	ND	1	5	.2	2	2	34	.33	.045	3	8	1.67	108	.06	2	1.54	.03	.53	1	15
019067 DR	2	145	51	230	.7	39	17	516	4.55	10	6	ND	1	291	.2	2	2	136	2.41	.061	2	61	2.20	278	.27	3	5.37	.48	1.42	1	8
019068 DR	10	404	192	885	2.8	11	9	476	3.67	10	8	ND	1	5	3.6	2	2	67	.33	.045	2	31	1.67	109	.16	2	1.66	.05	.89	1	50
019069 DR	1	95	58	207	.7	38	19	614	4.93	8	5	ND	1	265	.2	2	2	160	2.17	.062	3	60	2.07	502	.36	2	5.02	.59	1.48	1	3
019070 DR	13	680	371	1575	5.3	16	11	321	3.95	30	9	ND	1	9	10.2	2	2	71	.25	.046	2	36	1.12	80	.12	2	1.19	.06	.59	1	620
019071 DR	3	108	62	150	.7	82	21	421	3.97	2	11	ND	1	289	.2	2	2	111	2.91	.048	2	146	1.91	256	.22	3	5.71	.51	1.19	1	37
019072 DR	8	223	147	812	2.3	21	17	659	4.95	8	5	ND	1	16	3.8	2	3	101	.26	.037	2	47	2.11	66	.18	2	2.26	.07	1.05	1	98
019073 DR	1	69	45	102	.5	74	20	293	3.36	3	6	ND	1	208	.2	2	2	94	2.11	.051	2	127	1.46	255	.19	6	4.14	.53	.77	1	2
STANDARD C/AU-R	20	58	42	133	7.1	72	31	1052	3.93	39	17	6	39	52	18.1	15	20	57	.46	.093	41	60	.90	183	.08	40	1.89	.07	.14	13	490

NORANDA EXPLORATION CO., LTD.

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HOLE #: NQ90-3

DATE: Sept. 25/90

<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
019001 DR	9.1	9.4	.3	019043 DR	71.5	72.0	0.5
019002 DR	9.4	10.0	.6	019044 DR	72.0	73.5	1.5
019003 DR	10.0	11.7	1.7	019045 DR	73.5	75.0	1.5
019004 DR	11.7	13.4	1.7	019046 DR	75.0	76.5	1.5
019005 DR	13.4	15.5	2.1	019047 DR	76.5	78.0	1.5
019006 DR	15.5	17.7	2.2	019048 DR	78.0	79.5	1.5
019007 DR	17.7	19.2	1.5	019049 DR	79.5	81.0	1.5
019030 DR	52.2	53.4	1.2	019050 DR	81.0	82.5	1.5
019031 DR	53.4	54.6	1.2	019051 DR	82.5	83.7	1.5
019032 DR	54.6	56.1	1.5	019052 DR	83.7	85.5	1.5
019033 DR	56.1	57.6	1.5	019053 DR	85.5	87.0	1.5
019034 DR	57.6	59.4	1.8	019054 DR	87.0	88.5	1.5
019035 DR	59.4	60.9	1.5	019055 DR	88.5	89.2	0.7
019036 DR	60.9	62.5	1.6	019056 DR	89.2	90.5	1.5
019037 DR	62.5	64.0	1.5	019057 DR	90.5	92.0	1.5
019038 DR	64.0	65.5	1.5	019058 DR	92.0	93.5	1.5
019039 DR	65.5	67.0	1.5	019059 DR	93.5	95.0	1.5
019040 DR	67.0	68.5	1.5	019060 DR	95.0	96.5	1.5
019041 DR	68.5	70.0	1.5	019061 DR	96.5	98.0	1.5
019042 DR	70.0	71.5	1.5	019062 DR	98.0	99.5	1.5

AMPLE#	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	Tl %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
19110 DR	3	182	107	752	1.1	9	21	812	5.38	18	5	ND	2	8	4.0	4	2	108	.27	.047	2	14	1.29	28	.16	3	1.43	.04	.67	2	56
19111 DR	2	63	5	102	.4	82	21	352	3.76	8	5	ND	2	285	.4	3	2	117	2.53	.081	3	202	1.65	188	.16	2	5.67	.59	.82	1	7
19112 DR	2	79	4	66	.3	21	16	278	3.71	9	5	ND	1	189	.8	2	2	124	2.99	.060	3	31	.78	120	.20	4	4.85	.46	.27	1	9
19113 DR	2	131	73	1108	.6	48	26	746	5.76	9	5	ND	3	98	6.8	2	2	121	1.41	.062	2	89	2.38	36	.20	3	4.28	.28	1.06	1	15
19114 DR	18	128	18	105	.3	19	17	431	5.34	8	5	ND	1	245	.2	2	3	154	2.77	.056	2	36	1.45	101	.18	4	5.78	.49	.60	1	13
19115 DR	3	47	2	83	.2	5	12	755	3.93	5	5	ND	3	59	.2	4	2	80	.75	.058	3	6	1.02	229	.21	4	1.76	.16	.53	1	3
19116 DR	2	56	2	126	.1	4	12	762	3.71	4	5	ND	1	81	.2	2	2	64	1.01	.056	2	3	.89	162	.21	2	2.28	.23	.53	1	7
19117 DR	2	57	2	94	.2	6	9	659	3.49	4	9	ND	2	200	.4	2	2	62	1.04	.056	4	3	.75	165	.19	2	1.95	.19	.38	1	10
19118 DR	4	62	7	149	.1	5	14	884	4.12	5	5	ND	1	50	.4	2	2	97	.71	.054	2	4	1.51	200	.24	2	2.29	.14	.86	1	4
19119 DR	2	133	40	240	.4	20	26	1600	6.55	5	5	ND	2	11	.2	2	2	148	.28	.046	2	15	2.36	21	.25	2	2.94	.07	1.47	1	52
19120 DR	1	63	6	68	.1	100	19	204	2.67	8	5	ND	1	204	.5	2	2	91	2.87	.035	2	205	1.46	185	.11	3	6.02	.52	.66	1	11
19121 DR	1	142	11	173	.1	12	19	1677	7.35	2	5	ND	1	6	.2	2	3	144	.18	.049	2	8	2.56	13	.24	2	3.34	.04	1.36	1	31
19122 DR	1	94	9	548	.1	10	19	1969	6.59	4	5	ND	1	7	2.7	2	2	118	.37	.056	2	9	2.58	26	.24	2	3.34	.03	1.56	1	42
19123 DR	2	86	10	181	.1	6	18	2157	5.97	2	5	ND	1	7	.2	2	2	123	.34	.042	2	8	2.64	16	.27	2	3.20	.04	1.70	1	37
19124 DR	3	58	8	145	.3	7	19	1914	5.97	4	5	ND	1	6	.2	2	2	126	.22	.045	2	10	2.70	22	.28	2	3.24	.04	1.79	1	37
19125 DR	2	85	43	130	.3	7	19	1365	6.38	4	5	ND	1	11	.2	4	2	85	.40	.053	2	5	2.06	13	.18	2	2.41	.03	1.18	1	25
19126 DR	4	136	186	320	1.2	7	19	1924	5.65	4	5	ND	1	14	1.6	2	2	116	.33	.047	3	8	2.18	24	.24	3	2.57	.04	1.60	1	30
19127 DR	13	47	2	127	.1	9	19	1532	5.60	2	5	ND	1	12	.2	2	2	88	.54	.051	2	10	2.49	29	.17	2	2.80	.03	1.12	1	4
19128 DR	2	105	7	119	.4	4	17	1678	5.57	6	5	ND	1	7	.2	2	5	127	.35	.052	2	8	2.39	48	.25	2	3.18	.03	1.51	1	25
19129 DR	3	46	6	85	.4	5	8	803	3.27	3	5	ND	2	32	.2	3	3	48	.53	.054	3	6	.78	168	.18	2	1.42	.13	.57	1	6
19130 DR	2	33	11	32	.5	7	3	363	1.33	3	5	ND	4	11	.2	2	2	4	.30	.015	9	7	.23	33	.03	5	.47	.06	.09	1	6
19131 DR	2	81	2	56	.6	4	6	751	2.96	5	5	ND	4	20	.3	3	2	35	.38	.050	3	5	.64	81	.18	3	1.27	.09	.52	1	7
19132 DR	4	134	2	58	.5	6	6	787	2.97	7	5	ND	3	15	.2	2	2	37	.29	.040	4	3	.65	128	.18	2	1.29	.09	.60	1	16
19133 DR	1	58	2	84	.3	4	17	1479	5.68	2	5	ND	3	6	.2	2	4	147	.21	.050	2	7	2.28	57	.34	2	3.32	.04	1.76	1	12
19134 DR	1	105	2	90	.4	24	16	750	4.13	6	5	ND	2	99	.2	2	2	111	1.08	.040	2	61	1.34	214	.23	2	2.84	.30	.82	1	6
19135 DR	5	18	25	35	.5	9	3	303	1.32	16	5	ND	3	11	.2	2	2	5	.42	.028	7	6	.31	16	.03	2	.51	.06	.10	1	14
19136 DR	3	108	27	186	.8	8	8	581	2.84	2	5	ND	5	6	.9	2	2	29	.19	.024	6	7	.86	57	.09	2	1.02	.02	.55	1	15
19137 DR	1	28	5	87	.1	15	25	1031	6.83	8	5	ND	2	12	.2	2	2	173	.15	.041	2	54	2.46	18	.23	2	3.21	.07	1.43	1	17
19138 DR	2	74	2	112	.2	15	24	1066	6.40	4	5	ND	1	22	.2	2	3	233	.32	.058	2	51	3.69	31	.35	2	4.95	.13	2.03	1	17
19139 DR	1	89	14	120	.1	14	26	524	5.68	5	5	ND	1	168	.5	2	2	181	2.18	.054	2	41	2.03	59	.17	2	5.90	.57	.99	1	3
19140 DR	2	40	8	84	.1	9	9	810	3.80	2	5	ND	1	17	.2	2	2	44	.44	.053	3	6	.88	85	.15	2	1.24	.06	.39	1	7
19141 DR	2	19	14	144	.1	7	10	1033	3.76	2	5	ND	1	35	.8	2	2	68	.75	.073	2	6	.90	86	.22	3	1.43	.12	.33	1	1
19142 DR	2	136	79	702	.6	6	9	1124	3.36	9	5	ND	1	32	7.3	2	2	42	.79	.055	2	4	.90	51	.14	2	1.41	.11	.23	1	10
TANDARD C/AU-R	19	60	40	134	6.8	71	32	1050	3.95	41	17	7	39	56	19.1	15	16	57	.45	.094	39	56	.91	183	.08	39	1.88	.06	.14	11	530

NORANDA EXPLORATION CO., LTD.

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<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
019074 DR	111.7	113.3	1.6	019094 DR	142.2	143.7	1.5
019075 DR	113.3	114.2	0.9	019095 DR	143.7	145.5	1.8
019076 DR	114.2	115.5	1.3	019006 DR	145.5	146.2	0.7
019077 DR	115.5	117.5	2.0	019097 DR	146.2	148.2	2.0
019078 DR	117.5	119.5	2.0	019098 DR	148.2	150.2	2.0
019079 DR	119.5	121.5	2.0	019099 DR	150.2	152.2	2.0
019080 DR	121.5	123.5	2.0	019100 DR	152.2	154.2	2.0
019081 DR	123.5	125.5	2.0	019101 DR	154.2	155.3	1.1
019082 DR	125.5	127.5	2.0	019102 DR	155.3	157.3	2.0
019083 DR	127.5	129.0	1.5	019103 DR	157.3	159.3	2.0
019084 DR	129.0	130.0	1.0	019104 DR	159.3	160.5	1.2
019085 DR	130.0	131.3	1.3	019105 DR	160.5	162.0	1.5
019086 DR	131.3	131.9	0.6	019106 DR	162.0	163.0	1.0
019087 DR	131.9	133.5	1.6	019107 DR	163.0	164.5	1.5
019088 DR	133.5	135.0	1.5	019108 DR	164.5	166.1	1.6
019089 DR	135.0	136.5	1.5	019109 DR	166.1	167.6	1.5
019090 DR	136.5	138.0	1.5	019110 DR	167.6	169.2	1.6
019091 DR	138.0	139.2	1.2	019111 DR	169.2	170.7	1.5
019092 DR	139.2	140.7	1.5	019112 DR	170.7	172.9	2.7
019093 DR	140.7	142.2	1.5	019113 DR	172.9	174.0	1.1

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<u>SAMPLE #</u>	<u>FROM</u> (m)	<u>TO</u> (m)	<u>WIDTH</u> (m)	<u>SAMPLE #</u>	<u>FROM</u> (m)	<u>TO</u> (m)	<u>WIDTH</u> (m)
019114 DR	174.0	175.5	1.5	019134 DR	239.4	241.6	2.2
019115 DR	175.5	177.0	1.5	019135 DR	241.6	243.1	1.5
019116 DR	182.0	184.0	2.0	019136 DR	247.0	249.0	2.0
019117 DR	188.1	190.1	2.0	019137 DR	251.0	253.0	2.0
019118 DR	193.0	194.2	1.2	019138 DR	255.0	257.0	2.0
019119 DR	194.2	195.6	1.3	019139 DR	261.0	263.0	2.0
019120 DR	195.6	196.9	1.3	019140 DR	266.5	268.5	2.0
019121 DR	196.9	198.4	1.5	019141 DR	270.5	272.5	2.0
019122 DR	198.4	202.0	1.6	019142 DR	274.5	276.5	2.0
019123 DR	202.0	204.0	2.0				
019124 DR	206.0	208.0	2.0				
019125 DR	210.0	212.0	2.0				
019126 DR	214.0	216.0	2.0				
019127 DR	218.0	220.0	2.0				
019128 DR	222.0	224.3	2.3				
019129 DR	224.3	226.3	2.0				
019130 DR	228.0	230.0	2.0				
019131 DR	232.0	234.0	2.0				
019132 DR	234.0	235.4	1.4				
019133 DR	235.4	236.9	1.5				

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
019179 DR	8	106	434	1903	4.6	4	3	76	1.36	46	5	ND	1	1	9.4	4	3	4	.05	.015	7	3	.23	32	.01	2	.40	.01	.14	1	640
019180 DR	12	78	234	340	3.8	7	4	87	1.51	27	5	ND	2	4	2.0	5	2	6	.14	.016	5	5	.17	92	.01	4	.30	.01	.11	1	350
019181 DR	14	91	535	474	7.5	3	2	38	1.87	37	5	ND	1	3	2.3	10	3	3	.08	.011	4	2	.06	70	.01	5	.20	.01	.09	1	840
019182 DR	5	66	348	471	3.7	6	1	32	1.32	35	5	ND	1	3	2.7	6	2	2	.12	.014	5	3	.10	85	.01	4	.22	.01	.13	1	390
019183 DR	9	120	440	1408	3.0	3	1	55	1.27	32	5	ND	1	2	9.4	3	2	1	.01	.012	3	3	.04	127	.01	2	.23	.01	.09	1	350
019184 DR	15	192	763	1898	9.9	5	3	26	1.65	106	5	2	2	2	11.9	8	2	1	.02	.008	3	3	.02	97	.01	2	.16	.01	.07	1	1430
019185 DR	3	54	271	287	1.2	4	1	64	1.11	9	5	ND	3	4	.5	2	2	1	.09	.009	13	2	.03	85	.01	2	.44	.02	.12	1	93
019186 DR	4	28	69	145	.5	4	1	172	1.19	13	5	ND	4	5	.5	2	2	1	.18	.009	14	3	.08	89	.01	3	.35	.03	.08	1	44
019187 DR	37	140	715	1193	6.8	7	3	135	1.38	33	7	ND	1	4	6.5	3	2	1	.14	.008	5	2	.03	91	.01	2	.16	.01	.07	1	640
019188 DR	20	129	341	681	6.2	7	2	49	1.50	26	5	ND	1	1	3.7	4	2	1	.05	.011	4	4	.02	71	.01	2	.16	.01	.08	1	410
019189 DR	14	85	333	1086	3.2	3	2	57	1.24	38	5	ND	1	3	6.0	3	2	1	.11	.010	3	2	.05	102	.01	2	.20	.01	.08	1	350
019190 DR	13	153	1131	2049	7.4	9	2	79	1.55	21	5	ND	2	4	10.7	7	2	1	.27	.011	4	3	.10	67	.01	2	.16	.01	.08	1	360
019191 DR	15	189	1283	2742	7.3	5	2	191	1.36	18	8	ND	2	3	18.5	7	3	2	.12	.009	5	1	.07	85	.01	2	.17	.01	.07	1	390
019192 DR	49	378	1398	4449	10.8	14	3	59	1.52	40	5	ND	1	2	24.0	11	2	1	.12	.008	2	4	.03	33	.01	2	.13	.01	.06	1	690
019193 DR	7	142	1063	2189	4.3	5	2	33	1.38	17	5	ND	3	1	12.7	7	2	2	.04	.009	4	3	.09	22	.01	2	.22	.01	.12	1	160
019194 DR	7	352	1323	5106	12.4	6	2	31	1.21	19	5	ND	2	1	27.5	12	2	1	.02	.010	3	2	.05	17	.01	2	.17	.01	.09	1	860
019195 DR	11	288	2013	3088	29.9	13	6	70	2.09	106	5	ND	2	1	18.2	41	2	5	.07	.013	4	4	.10	53	.01	2	.23	.01	.12	2	850
019196 DR	15	277	667	1068	27.1	16	9	67	3.32	223	5	ND	1	3	6.0	39	2	4	.24	.037	2	5	.12	25	.01	2	.19	.01	.10	1	800
019197 DR	11	379	1743	4214	23.9	8	6	68	2.55	249	5	ND	1	2	20.9	41	5	5	.13	.025	2	2	.13	40	.01	3	.21	.01	.09	1	780
019198 DR	11	369	1240	1997	25.3	13	9	91	3.31	113	5	ND	1	2	10.8	34	3	10	.18	.033	2	6	.21	37	.01	2	.29	.01	.11	1	660
019199 DR	9	442	2137	2214	40.7	20	18	297	5.08	133	5	ND	1	8	13.1	45	7	73	.34	.035	2	32	1.19	44	.06	2	1.37	.02	.61	1	1240
019200 DR	10	132	475	602	6.0	20	22	283	4.71	64	5	ND	1	1	4.5	9	2	68	.08	.050	3	33	1.37	51	.07	4	1.42	.01	.80	1	510
019201 DR	25	132	277	780	8.0	27	23	143	6.59	97	5	ND	1	1	4.5	12	2	31	.12	.047	2	17	.60	31	.02	5	.68	.01	.39	1	420
019202 DR	10	216	873	2193	15.6	62	39	85	14.10	264	5	ND	1	2	12.6	19	5	17	.14	.049	3	8	.19	11	.01	3	.27	.01	.09	1	760
STANDARD C/AU-R	19	60	43	134	7.4	73	33	1055	3.97	42	23	8	39	52	19.3	16	18	58	.46	.099	40	60	.90	187	.08	34	1.89	.06	.14	11	520

NORANDA EXPLORATION CO., LTD.

DIAMOND DRILL HOLE SAMPLE SUMMARY

PROJ. : QUET

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PROJ.#: 126

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DATE: Oct. 2/90

<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
019143 DR	3.0	4.5	1.5	019163 DR	33.0	34.5	1.5
019144 DR	4.5	6.0	1.5	019164 DR	34.5	35.8	1.3
019145 DR	6.0	7.5	1.5	019165 DR	35.8	37.5	1.7
019146 DR	7.5	9.0	1.5	019166 DR	37.5	39.0	1.5
019147 DR	9.0	10.5	1.5	019167 DR	39.0	40.1	1.1
019148 DR	10.5	12.0	1.5	019168 DR	40.1	41.2	1.1
019149 DR	12.0	13.5	1.5	019169 DR	41.2	42.7	1.5
019150 DR	13.5	15.0	1.5	019170 DR	42.7	44.3	1.3
019151 DR	15.0	16.5	1.5	019171 DR	44.3	45.8	1.5
019152 DR	16.5	18.0	1.5	019172 DR	45.8	47.3	1.5
019153 DR	18.0	19.5	1.5	019173 DR	47.3	49.0	1.7
019154 DR	19.5	21.0	1.5	019174 DR	49.0	50.5	1.5
019155 DR	21.0	22.5	1.5	019175 DR	50.5	52.0	1.5
019156 DR	22.5	24.0	1.5	019176 DR	52.0	53.5	1.5
019157 DR	24.0	25.5	1.5	019177 DR	53.5	55.0	1.5
019158 DR	25.5	27.0	1.5	019178 DR	55.0	56.5	1.5
019159 DR	27.0	28.5	1.5	019179 DR	56.5	58.0	1.5
019160 DR	28.5	30.0	1.5	019180 DR	58.0	59.5	1.5
019161 DR	30.0	31.5	1.5	019181 DR	59.5	61.0	1.5
019162 DR	31.5	33.0	1.5	019182 DR	61.0	62.5	1.5

NORANDA EXPLORATION CO., LTD.

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DATE: Oct. 2/90

<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
019183 DR	62.5	64.3	1.5				
019184 DR	64.3	66.1	1.5				
019185 DR	66.5	67.6	1.5				
019186 DR	70.2	71.7	1.5				
019187 DR	71.7	73.0	1.1				
019188 DR	73.0	74.5	1.5				
019189 DR	74.5	76.0	1.5				
019190 DR	76.0	77.5	1.5				
019191 DR	77.5	79.0	1.5				
019192 DR	79.0	80.5	1.5				
019193 DR	80.5	82.0	1.5				
019194 DR	82.0	83.5	1.5				
019195 DR	83.5	85.0	1.5				
019196 DR	85.0	86.5	1.5				
019197 DR	86.5	88.0	1.5				
019198 DR	88.0	89.5	1.5				
019199 DR	89.5	91.0	1.5				
019200 DR	91.0	92.5	1.5				
019201 DR	92.5	94.0	1.5				
019202 DR	94.0	95.5	1.5				

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
019239 DR	6	8	12	121	.8	1	5	71	3.24	35	5	ND	1	7	.9	2	2	1	.28	.011	3	2	.28	56	.01	2	.73	.04	.20	1	12
019240 DR	7	38	10	82	.9	2	6	61	5.13	67	5	ND	1	7	1.0	2	2	1	.26	.011	2	1	.24	39	.01	2	.73	.06	.15	1	10
019241 DR	1	60	5	118	.7	112	25	260	3.66	25	5	ND	1	202	1.3	2	2	103	4.06	.051	2	174	2.00	144	.21	2	8.03	.25	1.28	1	7
019242 DR	2	49	2	57	.9	22	9	119	2.35	35	5	ND	1	44	.4	5	2	21	.73	.020	2	36	.63	103	.07	2	1.59	.09	.35	1	8
019243 DR	5	10	12	93	.5	4	8	81	3.87	52	5	ND	1	13	.5	3	3	4	.31	.015	3	1	.32	50	.02	2	.84	.08	.21	1	49
019244 DR	1	102	18	141	1.2	130	28	256	3.36	24	6	ND	1	268	1.4	3	2	98	4.66	.051	2	186	1.80	65	.18	2	8.09	.18	.75	1	18
019245 DR	2	44	22	173	2.1	1	4	126	1.34	28	5	ND	1	23	1.3	3	2	6	.82	.018	2	1	.28	46	.02	4	1.44	.07	.20	1	29
019246 DR	4	27	32	149	2.4	2	3	109	1.09	29	5	ND	1	25	.7	2	2	4	.60	.017	2	10	.20	66	.01	2	1.05	.05	.21	1	57
019247 DR	5	79	162	361	4.2	1	4	58	1.52	80	5	ND	1	9	2.0	4	2	2	.32	.017	2	2	.04	82	.01	2	.46	.02	.15	1	82
019248 DR	4	72	77	671	2.3	11	5	140	1.49	26	5	ND	1	46	5.2	2	2	9	1.05	.017	2	10	.29	71	.03	2	1.62	.08	.14	1	47
019249 DR	7	29	19	1047	2.3	4	7	47	2.58	25	5	ND	1	12	4.9	2	3	2	.30	.016	2	1	.12	85	.01	2	.64	.03	.20	1	23
019250 DR	8	16	11	87	1.4	8	8	47	1.51	16	5	ND	2	7	.4	2	3	2	.22	.015	4	8	.20	73	.01	4	.57	.02	.21	1	8
019251 DR	3	10	9	69	.8	2	5	66	1.54	9	5	ND	1	3	.2	2	2	2	.11	.017	4	1	.40	72	.01	4	.60	.01	.24	1	16
019252 DR	6	8	14	117	.8	4	8	81	2.83	18	5	ND	2	2	.3	2	2	2	.09	.019	3	1	.50	71	.01	2	.72	.01	.30	1	1
019253 DR	4	25	19	305	.5	5	8	160	2.10	16	5	ND	2	3	1.9	2	2	4	.17	.030	4	3	.95	116	.02	2	1.22	.02	.56	1	10
019254 DR	4	33	7	320	.6	3	6	154	1.61	11	5	ND	1	2	1.9	2	2	5	.11	.029	4	10	.88	120	.02	4	1.13	.01	.50	1	25
019255 DR	5	35	71	1810	3.2	1	5	103	1.58	13	5	ND	1	2	10.8	2	2	4	.13	.025	3	1	.44	66	.01	2	.64	.01	.28	1	62
019256 DR	3	29	45	78	2.2	4	9	92	2.23	17	5	ND	1	2	.3	2	2	6	.18	.039	3	1	.45	72	.01	2	.65	.01	.28	1	48
019257 DR	2	38	51	117	2.0	5	7	153	2.24	16	5	ND	1	12	1.0	2	2	19	.24	.030	3	3	.62	72	.03	2	.93	.05	.30	1	31
019258 DR	1	124	16	205	1.1	14	21	627	5.19	8	5	ND	1	297	2.2	2	2	201	3.29	.066	2	18	2.25	96	.22	2	8.05	.54	1.67	1	41
019259 DR	1	140	13	169	1.0	17	29	575	6.08	17	5	ND	1	59	1.3	4	2	105	.89	.104	2	12	2.07	44	.13	2	3.74	.20	1.29	1	20
019260 DR	2	51	16	165	.7	14	25	210	4.81	25	5	ND	1	3	1.6	2	2	16	.29	.076	2	8	.93	51	.03	2	1.32	.02	.71	1	17
019261 DR	2	157	670	857	3.8	12	23	475	5.60	24	5	ND	1	11	5.8	2	2	75	.36	.069	2	28	1.89	47	.12	2	2.22	.05	1.31	1	23
019262 DR	1	145	268	2375	2.3	15	22	869	5.12	16	5	ND	1	19	14.5	2	2	139	.32	.062	2	45	3.00	59	.23	2	3.49	.08	2.04	1	30
STANDARD C/AU-R	19	62	40	133	7.3	72	32	1054	3.97	42	24	7	39	52	19.2	15	22	59	.46	.094	40	61	.90	189	.08	33	1.89	.06	.13	11	530

NORANDA EXPLORATION CO., LTD.

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DATE: Oct. 5/90

<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
019215 DR	2.7	4.0	1.3	019235 DR	81.5	83.0	1.5
019216 DR	4.0	5.5	1.5	019236 DR	83.0	84.5	1.5
019217 DR	5.5	7.0	1.5	019237 DR	84.5	86.0	1.5
019218 DR	11.0	12.5	1.5	019238 DR	86.0	87.5	1.5
019219 DR	15.8	17.3	1.5	019239 DR	87.5	89.0	1.5
019220 DR	21.4	22.9	1.5	019240 DR	89.0	90.4	1.4
019221 DR	28.0	29.5	1.5	019241 DR	90.4	91.3	1.5
019222 DR	36.0	37.5	1.5	019242 DR	91.3	92.9	1.9
019223 DR	37.5	39.0	1.5	019243 DR	92.9	95.1	1.9
019224 DR	42.0	43.5	1.5	019244 DR	95.1	96.3	1.2
019225 DR	50.0	51.5	1.5	019245 DR	96.3	98.0	1.7
019226 DR	55.1	56.5	1.4	019246 DR	98.0	99.5	1.5
019227 DR	56.5	58.0	1.5	019247 DR	99.5	101.0	1.5
019228 DR	64.6	66.1	1.5	019248 DR	101.0	102.5	1.5
019229 DR	69.0	70.5	1.5	019249 DR	102.5	104.0	1.5
019230 DR	70.5	72.0	1.5	019250 DR	104.0	105.5	1.5
019231 DR	72.0	73.5	1.5	019251 DR	105.5	107.0	1.5
019232 DR	77.4	78.9	1.5	019252 DR	107.0	108.5	1.5
019233 DR	78.9	80.5	1.6	019253 DR	108.5	110.0	1.5
019234 DR	80.5	81.5	1.5	019254 DR	110.0	111.5	1.5

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
19371	4	150	24	234	.6	35	16	380	4.47	16	5	ND	1	80	2.0	6	2	84	1.24	.061	2	48	1.80	71	.11	2	3.22	.18	.65	1	46
19372	5	164	8	621	.7	40	31	354	6.21	41	5	ND	1	41	5.3	5	2	63	.59	.051	2	33	1.18	57	.07	3	1.46	.05	.53	1	53
19373	1	101	18	210	.6	41	31	810	8.26	33	5	ND	1	10	.4	7	3	105	.33	.057	2	47	2.68	41	.15	4	3.08	.07	1.44	1	47
19374	1	69	16	172	.4	15	24	739	6.52	10	5	ND	1	7	.6	5	2	108	.42	.065	2	33	3.05	51	.15	2	3.22	.04	1.39	1	21
19375	1	77	16	223	.2	18	20	713	5.30	13	5	ND	1	26	1.1	6	2	137	.57	.057	2	40	3.23	133	.18	2	3.90	.11	1.37	1	24
19376	2	33	5	212	.2	7	14	575	5.21	17	5	ND	1	26	.2	4	2	82	.33	.064	2	13	2.89	70	.10	2	2.85	.04	.88	1	53
19377	7	62	18	160	.3	14	15	648	5.23	10	5	ND	1	35	.2	3	2	101	.74	.076	2	23	3.39	91	.10	2	4.39	.17	1.05	1	67
19378	1	53	3	130	.5	8	13	538	5.17	12	5	ND	1	43	.7	7	2	84	.95	.065	2	16	2.85	76	.10	3	4.13	.20	1.04	1	62
19379	2	40	22	143	.5	7	13	516	4.83	12	5	ND	1	9	.7	5	2	70	.33	.072	2	15	2.71	56	.07	2	2.90	.05	.84	1	74
19380	2	76	48	229	1.1	4	12	419	4.22	11	5	ND	1	11	2.4	4	2	49	.80	.067	3	11	1.57	47	.05	2	1.85	.03	.68	1	98
19381	24	128	56	524	1.2	11	13	354	4.44	20	5	ND	1	6	3.6	4	2	41	.71	.071	3	13	1.45	48	.05	2	1.63	.03	.77	1	110
19382	7	100	51	317	1.0	11	14	333	4.71	25	5	ND	1	16	2.1	2	2	47	.81	.070	2	11	1.27	56	.08	2	2.04	.07	.72	1	120
19383	7	250	105	337	2.4	14	15	303	4.16	34	5	ND	1	92	2.8	4	2	46	.84	.060	2	40	.75	38	.08	2	1.69	.09	.43	1	170
19384	25	186	156	514	2.1	13	15	291	3.64	27	5	ND	1	32	2.7	2	2	52	.70	.065	2	16	.96	86	.09	2	1.66	.06	.57	1	160
19385	5	200	165	846	2.6	44	21	370	4.80	36	5	ND	1	72	4.4	7	2	83	1.40	.074	2	94	1.56	84	.16	2	3.42	.15	1.01	1	170
19386	3	349	565	830	4.6	18	16	344	4.35	27	5	ND	1	29	5.6	2	2	58	.84	.087	3	25	1.17	58	.07	2	1.96	.11	.67	1	230
19387	7	501	106	1759	3.6	19	15	300	4.56	25	5	ND	1	16	11.0	3	2	41	1.07	.084	4	42	.95	70	.04	2	1.25	.05	.51	1	200
STANDARD C/AU-R	20	62	42	133	7.3	73	32	1060	3.98	42	20	7	37	52	18.4	15	23	60	.46	.094	41	61	.90	187	.08	37	1.90	.06	.14	13	510

NORANDA EXPLORATION CO., LTD.

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DATE: Oct. 10/90

<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
019263 DR	121.4	123.0	1.6	019283 DR	165.0	166.5	1.5
019264 DR	123.0	124.5	1.5	019284 DR	166.5	168.0	1.5
019265 DR	124.5	126.0	1.5	019285 DR	168.0	169.5	1.5
019266 DR	126.0	127.5	1.5	019286 DR	169.5	171.0	1.5
019267 DR	127.5	129.0	1.5	019287 DR	171.0	172.5	1.5
019268 DR	129.0	130.7	1.7	019288 DR	172.5	174.0	1.5
019269 DR	130.7	132.2	1.5	019289 DR	174.0	175.5	1.5
019270 DR	132.2	133.7	1.5	019290 DR	175.5	177.0	1.5
019271 DR	133.7	136.0	2.3	019291 DR	177.0	178.5	1.5
019272 DR	136.0	138.0	2.0	019292 DR	178.5	179.1	0.6
019273 DR	138.0	140.0	2.0	019293 DR	179.1	180.0	0.9
019274 DR	140.0	142.0	2.0	019294 DR	180.0	181.0	1.5
019275 DR	146.0	148.0	2.0	019295 DR	181.0	182.7	1.7
019276 DR	152.0	154.0	2.0	019296 DR	182.7	184.0	1.3
019277 DR	156.0	157.5	1.5	019297 DR	184.0	185.5	1.5
019278 DR	157.5	159.0	1.5	019298 DR	185.5	187.0	1.5
019279 DR	159.0	160.5	1.5	019299 DR	187.0	187.7	0.7
019280 DR	160.5	162.0	1.5	019300 DR	192.4	194.0	1.6
019281 DR	162.0	163.5	1.5	019301 DR	194.0	195.5	1.5
019282 DR	163.5	165.0	1.5	019302 DR	195.5	196.1	0.6

NORANDA EXPLORATION CO., LTD.

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DATE: Oct. 10/90

<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>	<u>SAMPLE #</u>	<u>FROM</u>	<u>TO</u>	<u>WIDTH</u>
	(m)	(m)	(m)		(m)	(m)	(m)
019326 DR	3.0	4.5	1.5	019346 DR	45.0	47.0	2.0
019327 DR	4.5	6.0	1.5	019347 DR	47.0	47.5	0.5
019328 DR	6.0	7.5	1.5	019348 DR	52.0	54.0	2.0
019329 DR	7.5	9.0	1.5	019349 DR	54.0	56.0	2.0
019330 DR	9.0	10.5	1.5	019350 DR	56.0	58.0	2.0
019331 DR	10.5	12.0	1.5	019351 DR	58.0	58.7	0.7
019332 DR	12.0	13.5	1.5	019352 DR	67.1	68.3	1.2
019333 DR	13.5	15.0	1.5	019353 DR	69.1	70.6	1.5
019334 DR	15.0	16.6	1.6	019354 DR	70.6	72.1	1.5
019335 DR	21.9	24.0	2.0	019355 DR	74.9	76.5	1.6
019336 DR	24.0	26.0	2.0	019356 DR	76.5	78.0	1.5
019337 DR	26.0	28.0	2.0	019357 DR	78.0	79.5	1.5
019338 DR	28.0	30.0	2.0	019358 DR	79.5	81.0	1.5
019339 DR	30.0	32.0	2.0	019359 DR	81.0	83.0	2.0
019340 DR	32.0	34.0	2.0	019360 DR	83.0	84.6	1.6
019341 DR	34.0	35.1	2.0	019361 DR	84.6	86.6	2.0
019342 DR	37.2	39.0	1.8	019362 DR	88.3	90.5	2.2
019343 DR	39.0	41.0	2.0	019363 DR	91.3	93.1	1.8
019344 DR	41.0	43.0	2.0	019364 DR	93.1	94.9	1.8
019345 DR	43.0	45.0	2.0	019365 DR	95.4	96.0	0.6

NORANDA EXPLORATION CO., LTD.

DIAMOND DRILL HOLE SAMPLE SUMMARY

PROJ. : QUET

NTS : 92G/9

PAGE: 5 of 5

PROJ.#: 126

HOLE #: NQ90-7

DATE: Oct. 15/90

<u>SAMPLE #</u>	<u>FROM</u> (m)	<u>TO</u> (m)	<u>WIDTH</u> (m)	<u>SAMPLE #</u>	<u>FROM</u> (m)	<u>TO</u> (m)	<u>WIDTH</u> (m)
019366 DR	98.0	99.7	1.7	019386 DR	162.0	163.5	1.5
019367 DR	99.7	101.4	1.7	019387 DR	163.5	165.5	2.0
019368 DR	104.7	106.0	1.3				
019369 DR	106.0	108.0	2.0				
019370 DR	108.0	109.9	1.9				
019371 DR	117.2	118.6	1.4				
019372 DR	121.4	123.4	2.0				
019373 DR	123.4	125.4	2.0				
019374 DR	125.4	127.0	1.6				
019375 DR	127.0	127.8	0.8				
019376 DR	146.8	148.5	1.7				
019377 DR	148.5	150.0	1.5				
019378 DR	150.0	151.5	1.5				
019379 DR	151.5	153.0	1.5				
019380 DR	153.0	154.3	1.3				
019381 DR	154.3	156.0	1.7				
019382 DR	156.0	157.5	1.5				
019383 DR	157.5	159.0	1.5				
019384 DR	159.0	160.5	1.5				
019385 DR	160.5	162.0	1.5				

APPENDIX III
DIAMOND DRILL LOGS

C O L L A R S U M M A R Y F O R : Q U E T . D L F
 Q U E T P R O J E C T
 C O L L A R C O O R D I N A T E S

GRID SYSTEM :

FEBRUARY 18, 1991

HOLE NUMBER	COLLAR COORDINATES			HOLE DIRECTION		HOLE LENGTH (METRES)
	LATITUDE	DEPARTURE	ELEVATION	AZIMUTH DEGREES	DIP DEGREES	
NQ90-1	30335.000	31083.000	746.000	360.00	-85.00	160.60
NQ90-2	30012.000	30886.000	950.000	360.00	-45.00	218.20
NQ90-3	30038.000	31101.000	882.000	360.00	-50.00	276.50
NQ90-4	30106.000	31400.000	833.000	360.00	-52.00	133.20
NQ90-5	29971.000	30809.000	970.000	360.00	-60.00	215.20
NQ90-6	30010.000	30884.000	950.000		-90.00	54.00
NQ90-7	30013.000	30889.000	950.000		-90.00	194.20

FEBRUARY 18, 1991

PAGE: 1

SURVEY RECORD
QUET PROJECT
DOWNHOLE DIP TESTS

DRILL HOLE NUMBER : NQ90-1

GRID SYSTEM :

FOOTAGE	TEST TYPE	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION
0.00		360.00	-85.00	30335.000	31083.000	746.000
81.38	A	360.00	-85.00	30342.093	31083.000	664.930
139.29	A	360.00	-85.00	30347.140	31083.000	607.240

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-1
Grid System :
Collar Eastings : 31083.000
Collar Northings : 30335.000
Collar Elevations : 746.000
Collar Bearing : 360.00
Grid Baseline : 90.00

Collar Inclination : -85.00
Grid Bearing : 360.00
Final Depth : 160.60
Claim No. : QUET 1&10

PAGE : 1

Logged by : ROB G WILSON
Date : SEPTEMBER 8, 1990 - SEPTEMBER 10, 1990
Downhole Survey : ACID
Drilled By : PARAGON DRILLING
Core Size : NQ

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	ASSAYS												
FROM	TO				FROM	TO		Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb							
0.00	3.00	OVB	CASING No core recovery.																	
3.00	4.30	3b	SILICEOUS LAPILLI TUFF Fine grained, light grey with sub- angular white (feldspar)lapilli to 3mm diameter. Contact with below in broken core (fracture zone).																	
4.30	51.30	5B	ANDESITE DYKE? Dark green, fine grained matrix with 1-2mm diameter subrounded to subangular feldspar phenocrysts and smaller, less distinct dark green mafics. From pheno- cryst variation there appears to be several volcanic events represented. 12.5-12.7 fractured core Hairline to 5cm zones of epidote alteration are common with feldspars saussuritized adjacent to the zones.	18776 18777 18778 18779 18780 18781	6.09 13.10 15.84 22.25 28.04 32.61	7.62 14.32 17.37 23.77 29.56 34.13	1.53 1.22 1.53 1.52 1.52 1.52	80. 66. 152. 71. 222. 78.	14. 17. 35. 4. 28. 10.	166. 241. 373. 99. 230. 271.	0.6 0.5 1.0 0.7 1.2 0.5	4. 2. 5. 5. 3. 2.	3. 5. 5. 2. 5. 9.							
34.00	34.60	4ab	ANDESITE FRAGMENTAL TUFF As 51.3 to 63.1.																	
35.90	39.60	4ab	ANDESITE FRAGMENTAL TUFF As 51.3 to 63.1. Contains .5 to 3cm dark, subangular to subrounded fragments in a medium grey matrix. Massive bedded.	18782	36.27	37.79	1.52	60.	8.	227.	0.5	6.	8.							
39.60	47.00	5B/8	ANDESITE DYKE?/TUFF Over section 39.6 - 41.6 rock is partly bleached and epidotized. 47.0-51.3 Carbonate-quartz altered and partly bleached below epidote fracture zone. Breccia fragments are quartz- carbonate healed. Most rock is andesite dyke/tuff.	18783 18784 18837 18838 18839	42.36 47.85 49.37 50.14 50.90	43.89 49.37 50.14 50.90 52.42	1.53 1.52 0.77 0.76 1.52	133. 58. 39. 120. 182.	6. 20. 14. 35. 310.	115. 99. 144. 147. 901.	1.0 0.5 0.6 0.5 1.5	6. 15. 35. 4. 25.	3. 2. 1. 4. 23.							

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : HQ90-1
Grid System :
Collar Eastings : 31083.000
Collar Northings : 30335.000
Collar Elevations : 746.000
Collar Bearing : 360.00
Grid Baseline : 90.00

Collar Inclination : -85.00
Grid Bearing : 360.00
Final Depth : 160.60
Claim No. : QUET 1&10

PAGE : 1

Logged by : ROB G WILSON
Date : SEPTEMBER 8, 1990 - SEPTEMBER 10, 1990
Downhole Survey : ACID
Drilled By : PARAGON DRILLING
Core Size : HQ

GEO TECHNICAL SAMPLES						GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact Qz-CbVn deg	PROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
						3.00	4.30	.5	0	0	2	0
4.90	4.91			18	18	4.30	34.00	1	0	0	2	0
5.60	5.61		15									
7.90	7.91				60							
34.00	34.01				55	34.00	34.60	5	0	0	2	0
						34.60	35.90	.5	0	0	2	0
						35.90	39.60	5	0	0	2	0
39.60	39.61			50	50	39.60	47.00	1	0	0	2	0
40.20	40.21			30		47.00	51.30	.5	0	0	1	0
43.00	43.01			5								
45.20	45.21	30										
46.60	46.61		40									
48.30	48.31				30							
55.50	55.51		30			51.30	63.10	3	0	0	3	1
58.00	58.01		22									

Hole No: HQ90-1

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-1

PAGE : 2

INTERVAL(m) FROM TO	MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	ASSAYS								
				FROM	TO		Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB			
		Contact with below unit in split core.													
51.30	63.10	4ab	ANDESITE? LAPILLI (FRAGMENTAL) TUFF	18840	52.42	53.94	1.52	44.	147.	354.	0.6	44.	26.		
			Grey-brown, fine grained matrix with	18785	53.94	55.46	1.52	40.	77.	224.	0.9	35.	22.		
			1mm-3mm lapilli fragments (some are	18841	55.46	56.98	1.52	49.	82.	788.	0.8	33.	22.		
			subround) of felsic fine grained tuff.	18842	56.98	58.50	1.52	42.	25.	95.	0.7	21.	22.		
			Lithic fine grained dark grey fragments	18843	58.50	60.02	1.52	12.	48.	146.	0.5	21.	22.		
			constitute (5% of unit. Bedding is	18786	60.02	61.56	1.54	42.	314.	639.	1.0	24.	28.		
			massive.	18844	61.56	63.09	1.53	63.	310.	435.	1.3	41.	24.		
			Pyrite is fine grained and variable	18845	63.09	64.61	1.52	103.	28.	148.	0.7	4.	7.		
but averages 3%															
63.10	72.00	5B	ANDESITE DYKE	18787	64.61	66.14	1.53	22.	32.	79.	0.7	20.	10.		
			As 4.3-51.3.	18846	66.14	67.43	1.29	71.	83.	305.	0.9	17.	21.		
			64.7-66.1 Dyke is pale green grey, quartz	18847	67.43	69.18	1.75	83.	24.	127.	0.5	6.	4.		
			-carbonate altered (epidote) and fractured	18788	69.18	70.10	0.92	45.	40.	147.	0.6	10.	11.		
			with fault gouge 65.3-65.7.	18848	70.10	71.93	1.83	88.	23.	220.	0.6	4.	5.		
			66.1-72.0 Rock is less altered but is	18849	71.93	72.23	0.30	83.	36.	199.	0.7	20.	25.		
still frequently cut by carbonate veins															
and shows slickensides at 60 deg CA,															
(carbonate healed shear zone).															
Contact with below in split core.															
72.00	73.50	4ab	ANDESITE? LAPILLI (FRAGMENTAL) TUFF	18789	72.23	73.76	1.53	70.	19.	358.	0.9	38.	21.		
			As 51.3 - 63.1.												
			Contact at 42 deg. CA.												
73.50	107.80	4	NODULAR TUFF	18790	73.76	75.28	1.52	84.	44.	450.	0.8	22.	14.		
			Purply-brown fine grained (Bi?)	18791	75.28	76.80	1.52	40.	39.	292.	0.7	36.	12.		
			matrix with 10-30% light grey green	18792	76.80	78.33	1.53	122.	43.	521.	0.8	22.	12.		
			subrounded 3mm-1cm nodules of a fine	18793	78.33	79.85	1.52	76.	15.	292.	0.6	12.	10.		
			grained felsic tuff. Generally massive	18794	79.85	81.38	1.53	30.	18.	147.	0.6	18.	6.		
			bedded with disseminated pyrite throughout	18795	81.38	82.90	1.52	44.	10.	101.	0.8	14.	10.		
			(matrix and nodules). Occasional short	18796	82.90	84.42	1.52	57.	12.	155.	1.1	16.	21.		
			((20cm) sections of the tuff are pale grey	18797	84.42	85.95	1.53	36.	8.	147.	0.5	20.	12.		
			-brown (hydrothermal bleaching?) adjacent	18798	85.95	87.47	1.52	85.	2.	205.	0.6	12.	8.		
			to minor quartz veinlets (rare).	18799	87.47	89.00	1.53	59.	2.	136.	0.9	13.	10.		
			Pyrite ranges between 3-15% and	18800	89.00	89.91	0.91	77.	16.	112.	0.7	12.	18.		
			averages 5%.	18801	89.91	90.83	0.92	39.	4.	124.	0.4	8.	9.		
			Contact with below sharp at 52 deg CA	18802	90.83	92.35	1.52	68.	3.	156.	0.3	5.	14.		
	18803	92.35	93.87	1.52	43.	12.	219.	0.3	14.	6.					

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-1

PAGE : 2

GEO TECHNICAL SAMPLES						GEOCHEMICAL SAMPLES							
FROM	TO	Bedding	Fabric	Faults	Contact	Qz-CbVn	FROM	TO	Py	Sp	Gn	Sil	Bi
		deg	deg	deg	deg	deg			%	%	%	0 to 3	0 to 3
65.20	65.80			60			63.10	72.00	1	0	0	0	0
69.00	69.01			60									
72.50	72.51		36				72.00	73.50	3	0	0	2	1
73.50	73.51				42		73.50	84.00	5	0	0	1	3
78.90	78.91		30				84.00	85.20	15	0	0	1	3
81.60	81.61	50					85.20	107.80	5	0	0	1	3
87.40	87.41	56											
91.40	91.41	40											
102.10	102.11	50											

Hole No: NQ90-1

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-1

PAGE : 3

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	ASSAYS					
FROM	TO				FROM	TO		Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb
				18804	93.87	95.40	1.53	13.	37.	146.	0.7	19.	7.
				18805	95.40	96.92	1.52	15.	30.	242.	0.3	17.	11.
				18806	96.92	98.45	1.53	62.	20.	211.	0.9	6.	5.
				18807	98.45	99.97	1.52	100.	17.	201.	0.9	21.	14.
				18808	99.97	101.49	1.52	118.	27.	170.	0.9	12.	6.
				18809	101.49	103.02	1.53	95.	97.	204.	1.1	256.	12.
				18810	103.02	104.54	1.52	74.	15.	236.	0.9	10.	14.
				18811	104.54	106.07	1.53	37.	28.	247.	0.8	26.	6.
				18812	106.07	107.59	1.52	53.	21.	142.	0.6	11.	6.
107.80	121.50	5B	ANDESITE DYKE	18813	108.81	110.33	1.52	254.	1004.	240.	6.5	5.	9.
			As 4.3-51.3.	18814	114.90	116.43	1.53	51.	21.	115.	0.7	22.	1.
			109.2-110.2 Highly pyritic fracture zone at 10deg CA. Epidotization common.										
			113.0-114.0 Highly broken core.										
			Contact with below gradational over 1m but is taken to be at a 1cm quartz vein #50deg CA, also a distinct increase in Py.										
121.50	140.80	4a	ANDESITE (LAPILLI) TUFF	18815	124.05	125.57	1.52	132.	62.	499.	0.8	26.	25.
			Dark grey-brown, fine to coarse grained, massive mafic? tuff.	18816	125.57	127.10	1.53	65.	9.	248.	0.4	26.	22.
			Tuff fragments are ghosted, 1mm diameter, subround and are of a finer felsic tuff (<.25mm fragments of angular feldspar). Tuff sizes are variable to 3mm diameter.	18817	127.10	128.62	1.52	32.	8.	144.	0.3	12.	11.
				18818	128.62	130.14	1.52	30.	7.	87.	0.6	12.	26.
				18819	130.14	131.67	1.53	31.	4.	114.	0.6	6.	7.
				18820	131.67	133.19	1.52	34.	2.	121.	0.7	13.	9.
				18821	133.19	134.72	1.53	36.	5.	109.	0.5	18.	9.
				18822	134.72	136.24	1.52	46.	15.	128.	0.6	4.	3.
			Pyrite is disseminated throughout and is concentrated along hairline fractures to 9% but averages 5%.	18823	136.24	137.76	1.52	36.	9.	92.	0.3	3.	9.
			Quartz veinlets are generally absent.	18824	137.76	139.59	1.83	55.	14.	101.	0.5	9.	14.
139.40	140.80	5B	ANDESITE DYKE	18825	139.59	141.12	1.53	111.	30.	125.	0.8	9.	5.
			As 4.3-51.3. Contacts in split core.										
140.80	148.80	4ab	ANDESITE LAPILLI FRAGMENTAL TUFF	18827	141.12	142.34	1.22	53.	21.	611.	0.6	32.	33.
			Brownish grey, fine grained matrix with lapilli and fragments (angular 2-5 cm diameter) of various tuffaceous rocks from felsic to mafic in composition.	18828	142.34	143.86	1.52	16.	14.	234.	0.5	29.	22.
				18829	143.86	145.38	1.52	43.	8.	202.	0.5	35.	31.
				18830	145.38	146.30	0.92	31.	11.	117.	0.4	30.	14.
				18831	146.30	146.91	0.61	5.	9.	52.	0.3	10.	6.
			Pyrite forms a good portion of the matrix (averages 10-12%) and 9% of entire	18832	146.91	148.43	1.52	27.	11.	103.	0.5	16.	13.
				18833	148.43	149.96	1.53	58.	8.	115.	0.6	11.	9.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-1

PAGE : 3

GEO TECHNICAL SAMPLES						GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	Qz-CbVn deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
107.80	107.81					52	107.80	121.50	1	0	0	1	0
109.20	109.21			80									
121.50	121.51					50	121.50	140.80	3	0	0	2	0
121.60	121.61	40											
124.80	124.01	30											
127.10	127.11	20											
133.20	133.21	22											
139.40	139.41					40							
141.10	141.11	20					141.40	148.80	7	0	0	2	0
143.30	143.31	30											
							148.80	160.60	2	7	0	0	2

Hole No: NQ90-1

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-1

PAGE : 4

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS
FROM	TO				FROM	TO							Au ppb
			rock. Rock is relatively soft. Quartz veinlets are generally missing. 146.6-147.6 Carbonate rich shear zone. Contact with below unknown in split core.										
148.80	160.60	5B	ANDESITE DYKE	18834	149.96	151.63	1.67	94.	98.	331.	0.5	7.	6.
			As 4.3-51.3.	18850	151.63	153.15	1.52	37.	11.	136.	0.6	3.	1.
			152.1-152.2 Fault Gouge.	18851	153.15	154.53	1.38	19.	12.	87.	0.5	7.	1.
			160.6 END OF HOLE	18835	154.53	156.05	1.52	47.	7.	109.	0.5	8.	2.
				18852	156.05	157.58	1.53	48.	18.	165.	0.6	3.	1.
				18836	157.58	159.10	1.52	45.	12.	184.	0.7	4.	1.

MORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-1

PAGE : 4

GEO TECHNICAL SAMPLES

FROM	TO Bedding	Fabric	Faults	Contact	Qz-CbVn
	deg	deg	deg	deg	deg

:

FROM	TO	Py	Sp	Gn	Sil	Bi
		%	%	%	0 to 3	0 to 3

GEOCHEMICAL SAMPLES

Hole No: NQ90-1

FEBRUARY 18, 1991

PAGE: 1

SURVEY RECORD
QUET PROJECT
DOWNHOLE DIP TESTS

DRILL HOLE NUMBER : NQ90-2

GRID SYSTEM :

FOOTAGE	TEST TYPE	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION
0.00		360.00	-45.00	30012.000	30886.000	950.000
59.70	A	360.00	-45.00	30054.214	30886.000	907.786
120.70	A	360.00	-44.00	30097.722	30886.000	865.031
184.70	A	360.00	-44.00	30143.760	30886.000	820.573

MORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PAGE : 1

PROPERTY : QUET
HOLE No. : NQ90-2
Grid System :
Collar Eastings : 30886.000
Collar Northings : 30012.000
Collar Elevations : 950.000
Collar Bearing : 360.00
Grid Baseline : 90.00

Collar Inclination : -45.00
Grid Bearing : 360.00
Final Depth : 218.20
Claim No. : QUET 1610

Logged by : R.G. WILSON
Date : SEPTEMBER 13, 1990 - SEPTEMBER 20, 1990
Downhole Survey : ACID
Drilled By : PARAGON DRILLING
Core Size : NQ

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb
FROM	TO				FROM	TO							
0.00	1.20	C/I	CASING		0.00	1.20	1.20	C/I	C/I	C/I	C/I	C/I	C/I
1.20	6.70	5B	ANDESITE DYKE	18999	1.20	3.20	2.00	60.	5.	127.	1.0	11.	10.
			1.20 to 6.70 - Recovery 85%.	19000	3.20	5.20	2.00	40.	5.	108.	0.7	13.	11.
			Medium to dark green with faint feldspar phenocrysts to 2 mm diameter (avg. 1 mm) in a dark green fine grained mafic (partly chloritic altered) matrix. The rock is hard (silicified) over entire unit. Epidote alteration along narrow 1-20 mm veinlets is common at an average 30 deg. to core axis (range 20-50 deg.). Feldspars are often sausseritized adjacent to these veinlets.	18855	5.20	6.70	1.50	46.	9.	115.	1.1	14.	23.
			This unit contains almost no visible sulphides but is moderately to strongly magnetic.										
			The core is moderately broken. There are pinkish, rounded fragments at 4.1 and 5.7 which are xenoliths? (K-spar altered?).										
			Contact with below sharp @ 50 deg CA.										
6.70	22.90	3a	SILICEOUS (FRAGMENTAL) TUFF	18856	6.70	8.20	1.50	41.	9.	116.	5.1	64.	56.
			6.70 to 22.90 - Recovery 90%.	18857	8.20	9.70	1.50	23.	13.	93.	2.0	61.	29.
			Pale grey to white, finely crystalline with variable (1 mm to 5 cm) angular fragments. Extremely hard, as the unit appears totally pervasively silicified.	18858	9.70	11.20	1.50	14.	16.	626.	3.0	44.	26.
			Fragments are angular and unsorted, silicified fine grained tuff while the matrix is the same but much finer grained and cemented by silica. The entire unit is not fragmental and non-fragmental sections start below 14 m, where	18859	11.20	12.70	1.50	14.	12.	195.	1.7	47.	17.
				18860	12.70	14.20	1.50	29.	18.	242.	0.9	37.	10.
				18861	14.20	15.70	1.50	20.	19.	66.	0.8	11.	1.
				18862	15.70	17.20	1.50	21.	15.	134.	0.4	24.	2.
				18863	17.20	18.70	1.50	13.	8.	44.	0.2	20.	4.
				18864	18.70	20.20	1.50	14.	7.	64.	0.1	26.	3.
				18865	20.20	21.70	1.50	9.	7.	57.	0.2	25.	1.
				18866	21.70	22.90	1.20	11.	11.	84.	0.4	22.	1.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

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PROPERTY : QUET
HOLE No. : NQ90-2
Grid System :
Collar Eastings : 30886.000
Collar Northings : 30012.000
Collar Elevations : 950.000
Collar Bearing : 360.00
Grid Baseline : 90.00

Collar Inclination : -45.00
Grid Bearing : 360.00
Final Depth : 218.20
Claim No. : QUET 1610

Logged by : R.G. WILSON
Date : SEPTEMBER 13, 1990 - SEPTEMBER 20, 1990
Downhole Survey : ACID
Drilled By : PARAGON DRILLING
Core Size : NQ

GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
6.69	6.70			50	1.20	6.70	0	0	0	2	0
12.00	12.01	85			6.70	22.90	2	0	0	3	0
12.50	12.51		80								
14.90	15.10			20							
16.40	16.45			35							

Hole No: NQ90-2

MORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-2

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS
FROM	TO				FROM	TO							Au ppb
			<p>fragmentals are less than .5 mm diameter. Fragments are often highly ghosted. Quartz-calcite veinlets are fairly common (1 per 10 cm) and range from 1-10 mm wide @ 30-60 deg. CA.</p> <p>Pyrite is the main sulphide present, occurring as irregular veinlets and minor disseminations. A darker, very fine grained mineral is occasionally seen associated with the pyrite (sphalerite?) as at 13.0 m. Total sulphides average 2-3%.</p> <p>The core is moderately fractured and all fracture surfaces are rusty, apparently from surface weathering.</p> <p>A fracture-fault zone at 15.0 m has altered the core from 14.3-15.8(carbonate-limonitic). A second fault is at 16.4 m with less enclosing alteration.</p> <p>Bedding is massive with occasional sense of dip as at 12.0 (85 deg.). A sense of fabric is defined by pyrite lined stringers as at 12.5 (80 deg).</p> <p>20.1-20.2 Fault gouge (no orient.)</p> <p>19.0-19.2 Coarse pyrite is quartz vein @ 75 deg. CA.</p> <p>16.0-17.5 Core has a pink (K-spar) hue.</p> <p>Contact with below unknown in broken core.</p>										
22.90	27.70	5B	<p>ANDESITE DYKE</p> <p>22.9 to 27.7 - Recovery is 70%.</p> <p>As 1.2-6.7 except few if any epidote veins. Core is strongly broken, with all fractures rusty and some fractures pyrite coated. The entire unit appears to be a fracture zone with local sheared rock and fault gouge as at 26.5 to 26.6.</p>	18867	22.90	24.40	1.50	137.	13.	239.	1.3	11.	10.
23.00	23.70	Fg1	FAULT GOUGE										
23.70	27.70	Fz1	FAULT ZONE	18868	26.20	27.70	1.50	90.	12.	250.	0.9	15.	5.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-2

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding	Fabric	Faults	Contact	FROM	TO	Py	Sp	Gn	Sil	Bi
		deg	deg	deg	deg			%	%	%	0 to 3	0 to 3

22.90 27.70 1 0 0 2 0

27.65 27.70

55

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NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS Au ppb
FROM	TO				FROM	TO							
27.70	43.90	3a	<p>Contact with below is gradational over 5 cm.</p> <p>SILICEOUS (FRAGMENTAL) TUFF 27.70 to 43.90 - Recovery is 75% As 6.7 to 22.9. Fragments are much more ghosted, similar to the bottom part of that unit. The core is highly fractured, appearing as surface weathering extending to depth. (This hole parallels the slope surface at approximately 50 m depth.) Sericite is seen on some broken surfaces. Pyrite increases to 3-5% between 37.6 and 41.7.</p>										
27.70	28.50	Fzz	FAULT ZONE	18869	27.70	29.20	1.50	24.	12.	45.	0.2	21.	18.
				18870	29.20	30.70	1.50	24.	16.	57.	0.3	20.	5.
				18871	30.70	32.20	1.50	13.	9.	33.	0.2	32.	3.
				18872	32.20	33.70	1.50	18.	8.	35.	0.3	17.	3.
				18873	33.70	35.50	1.80	25.	10.	25.	0.2	14.	6.
35.50	36.10	5B	ANDESITE DYKE As 1.2-6.7 m.	18874	35.50	36.10	0.60	46.	12.	99.	0.3	14.	6.
			Contact with below unknown between core runs in broken core.	18875	36.10	37.60	1.50	22.	11.	43.	0.5	31.	10.
				18876	37.60	39.10	1.50	62.	13.	21.	0.9	41.	30.
				18877	39.10	40.60	1.50	19.	13.	44.	0.4	39.	9.
				18878	40.60	42.10	1.50	27.	12.	72.	0.5	24.	6.
				18879	42.10	43.90	1.80	35.	3.	68.	0.4	14.	10.
43.90	55.60	5B	ANDESITE DYKE	18880	43.90	45.40	1.50	23.	8.	102.	0.4	10.	10.
			43.90 to 55.6 - Recovery is 76%	18881	45.40	46.90	1.50	33.	12.	119.	0.6	17.	340.
			Dark green, fine grained with 1-2 mm euhedral feldspar phenocrysts (<2%) and a fine grained mafic matrix. A fine white mineral is also common as specs with no apparent shape (sericite?). Rock is moderately magnetic.	18882	46.90	48.40	1.50	85.	21.	109.	1.0	12.	40.
				18883	48.40	49.90	1.50	24.	5.	82.	0.4	10.	136.
				18884	49.90	51.70	1.80	41.	10.	108.	0.5	12.	11.
				18885	51.70	52.80	1.10	76.	14.	217.	0.8	20.	39.
				18886	52.80	54.30	1.50	75.	10.	138.	0.5	7.	7.
			The rock is well silicified. Pyrite occurs as coatings on fracture surfaces. Fracture zone 46.7-47.1. Core moderately broken. Increase in quartz-calcite veinlets	18887	54.30	55.60	1.30	47.	20.	87.	0.3	4.	2.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults Contact deg deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
					27.70	37.60	2	0	0	4	0
					37.60	41.70	4	0	0	4	0
					41.70	43.90	2	0	0	4	0
52.50	52.55			20	43.90	55.60	4	0	0	4	0
57.00	57.01			60	55.60	57.00	4	0	0	2	1

Hole No: NQ90-2

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUEST
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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
						57.00	58.60	4	0	0	3	1
						58.60	59.60	4	1	0	3	1
64.30	64.40			45		59.60	69.90	.5	0	0	2	1
68.20	68.30			68								
69.89	69.90				55							
76.49	76.50			62	62	69.90	76.50	2	0	0	2	1

Hole No: NQ90-2

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-2

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS	
FROM	TO				FROM	TO							Au ppb	ppb
			68.2-68.3 Fault Gouge. Entire unit is moderately magnetic. Contact with below gradational over 10 cm @ 55 deg. CA.											
69.90	76.50	3a	GREY GREEN (FRAGMENTAL) TUFF 69.9 to 76.5 - Recovery is 95% Grey green and mottled brown-red, fine grained matrix with 1mm to 3cm fragments of similar material occurring as faint ghosts. Matrix fragments are .5 to 1mm, white (Fs?). The rock is moderately pervasively silicified but lacks quartz veinlets (rare). Pyrite occurs as fine disseminations throughout (avg. 2%) Contact with below @ 62 deg. in fault gouge (2 cm). Unit is non - magnetic.	18898 18899 18900 18901 18902	69.90 71.40 72.90 74.40 75.90	71.40 72.90 74.40 75.90	1.50 1.50 1.50 1.50 0.60	185. 34. 28. 137. 384.	15. 14. 4. 12. 53.	706. 229. 280. 331. 769.	1.5 0.3 0.2 0.7 1.7	18. 15. 16. 17. 46.	111. 48. 58. 61. 149.	
76.50	136.00	3a	SILICEOUS (FRAGMENTAL) TUFF 76.5 to 136.0 - Recovery is 95% Grey green and mottled red-brown, fine grained matrix with fragments from (at times ghosted) 1mm to 2cm. Similar to above unit with infuson of quartz. Quartz veins are irregular and quartz flooding is common. Unit is highly silicified and non-magnetic. Fragments are often rimmed by an unknown light brown earthy textured mineral (fine grained biotite?) which often also forms part of the matrix. Pyrite is finely disseminated throughout unit averaging 5% with local concentration to 7%. Sphalerite and galena are present in local concentrations to 2-3% but averages <<1% throughout. The sphalerite is honey colored to reddish brown (most common) and occurs a blebs to 2mm.	18903 18904 18905 18906 18907 18908 18909	76.50 78.00 79.50 81.00 82.50 84.00 85.50	78.00 79.50 81.00 82.50 84.00 85.50	1.50 1.50 1.50 1.50 1.50 1.50 1.20	274. 437. 266. 425. 129. 301. 492.	293. 1324. 197. 315. 108. 69. 308.	4083. 2287. 5443. 2272. 790. 1379. 4592.	1.7 5.9 2.4 3.1 1.1 2.0 4.2	26. 43. 20. 38. 30. 38. 35.	137. 380. 230. 280. 103. 490. 410.	
86.70	87.20	Fgx	FAULT GOUGE @ 45 deg. CA. 92.0 lcm pyrite vein @ 35deg CA. Contact with below unknown in highly	18910 18911 18912	86.70 87.20 88.70	87.20 88.70 90.20	0.50 1.50 1.50	127. 1896. 414.	55. 1811. 250.	547. 50630. 4979.	0.8 11.6 2.1	21. 32. 38.	38. 2620. 340.	

HORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
79.60	79.61			55	76.50	79.50	5	0	0	3	2
					79.50	80.30	5	1	TR	3	2
					80.30	81.20	5	0	0	3	2
					81.20	82.00	5	1	1	3	2
					82.00	82.30	7	0	0	3	2
					82.30	85.00	5	0	0	3	2
					85.00	86.80	5	.5	TR	3	2
86.70	87.20			45	86.80	87.30	5	0	0	3	2
89.10	89.15		60		87.30	88.50	5	2	1	3	2
					88.50	90.20	5	.5	TR	3	2
					90.20	90.50	5	1	TR	3	2
					90.50	91.70	5	.5	TR	3	2
					91.70	92.20	9	.5	.5	3	2
					92.20	93.20	5	.5	TR	3	2
					93.20	94.90	7	3	1	3	2
					94.90	96.30	TR	0	0	2	0
					96.30	96.90	5	TR	0	3	2
					96.90	97.30	7	2	1	3	2
					97.30	98.40	5	TR	0	3	2
					98.40	100.60	5	.5	TR	3	2

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
100.60	100.61			59	59	100.60	101.60	5	0	0	2	0
101.59	101.60			69	69	101.60	104.40	5	0	0	3	2
						104.40	105.10	5	.5	1	3	2
						105.10	108.80	5	TR	TR	3	2
						108.80	114.90	5	.5	TR	3	2
115.20	115.21		60			114.90	115.60	3	TR	2	2	0
115.59	115.60				35							
						115.60	118.40	.5	0	0	2	0
118.40	118.41				65	118.40	122.20	3	.5	.25	3	3

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INTERVAL(m) FROM	TO	MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	ASSAYS					
					FROM	TO		Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb
115.60	118.40	5B	deg. CA. ANDESITE DYKE As 74.9 - 96.3, Unit is magnetic. Very minor sulphides except at contact. Bottom contact gradational over 30 cm in quartz stringer zone @ 65 deg. CA.	18931	115.60	118.40	2.80	155.	740.	320.	2.9	7.	112.
118.40	122.20	Qfz	QUARTZ FLOOD ZONE Increase in irregular quartz veinlets with disseminated sphalerite and galena in the quartz.	18932 18934 18935	118.40 119.90 121.40	119.90 121.40 122.20	1.50 1.50 0.80	482. 437.	1269. 744.	2946. 2334.	6.6 4.4	28. 17.	480. 420.
122.20	123.30	5B	ANDESITE DYKE Top contact 28deg. CA, bottom contact 60 deg. CA. Dark green, fine grained, few feldspar phenocrysts. Pyrite < 1%.	18936	122.20	123.30	1.10	85.	43.	131.	0.5	10.	54.
123.30	124.10	Qfz	QUARTZ FLOOD ZONE Below the dyke quartz veining and flooding continues to 124.1 with sphalerite and galena disseminated and following veinlets. Fragments are also more distinct here, ranging in size from 1m to 2cm. Quartz flooding dies out 124.1- 126.8.	18937 18938 18939	123.30 124.80 126.30	124.80 126.30 127.80	1.50 1.50 1.50	519. 248.	3426. 268.	17248. 730.	11.4 3.0	34. 22.	1420. 310.
126.80	131.30	Qfz	QUARTZ FLOOD ZONE Quartz flooding and veining increases to 30% of rock and carries sphalerite and galena. Reddish hue is more subdued below 129.8.	18940 18941	127.80 129.80	129.80 131.30	2.00 1.50	372. 2821.	159. 9225.	1278. 32336.	3.1 40.4	43. 131.	760. 3600.
131.30	132.60	5B	ANDESITE DYKE As 122.2-123.3. Top contact gradational over 20cm. Bottom contact in fault @ 20 deg. CA.	18942	131.30	132.60	1.30	512.	760.	356.	4.4	19.	15.
132.60	136.00	Qfz	QUARTZ FLOOD ZONE Quartz veining and flooding is still present but not as strong. Traces of sphalerite in quartz. Blocky core at 134.7 - 134.8.	18943 18944	132.60 134.30	134.30 136.00	1.70 1.70	217. 591.	672. 3942.	982. 7712.	4.1 15.0	24. 39.	520. 920.
136.00	137.40	7	FELDSPAR PORPHYRY DYKE Light green fine grained matrix with anhedral (1-2mm) feldspar phenocrysts and	18945	136.00	137.40	1.40	50.	129.	397.	0.4	7.	1.

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
						122.20	123.30	.5	0	0	2	0
						123.30	124.10	5	2	1	2	3
						124.10	126.80	5	TR	0	2	3
						126.80	129.80	5	TR	0	2	3
						129.80	131.30	7	2	1	3	2
132.59	132.60			20	20	131.30	132.60	1	0	0	2	0
						132.60	136.00	5	.5	0	2	2
136.20	136.21		49			136.00	137.40	0	0	0	3	0
137.39	137.40				62							
142.90	142.91	50				137.40	138.10	5	1	0	3	2
						138.10	141.00	5	TR	0	3	3
						141.00	141.30	5	2	0	3	3
						141.30	147.60	5	TR	0	2	2
						147.60	151.50	5	TR	0	2	3

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GEOTECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
151.60	151.70			40	151.50	152.40	5	TR	0	2	1
					152.40	162.90	2	0	0	3	3

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS
FROM	TO				FROM	TO							Au ppb
			fractured. Several sections of fault gouge.										
152.40	153.90	Fgx	FAULT GOUGE	18956	152.40	153.90	1.50	521.	133.	935.	2.7	16.	32.
				18957	153.90	155.40	1.50	384.	1360.	2741.	6.9	8.	1230.
154.60	156.20	Fgx	FAULT GOUGE	18958	155.40	156.90	1.50	163.	601.	2294.	3.3	13.	83.
			Total pyrite is less and crystals are euhedral and average 2-3mm diameter.	18959	156.90	158.40	1.50	151.	256.	825.	2.2	12.	69.
			Pyrite is also seen along fractures	18960	158.40	159.90	1.50	422.	485.	2719.	4.0	13.	390.
			crosscutting quartz veinlets are common, and is seen with associated molybdenite (<1%) at 157.3 - 158.5.	18961	159.90	161.10	1.20	565.	789.	2013.	4.6	15.	110.
			156.8 - 158.3	18962	161.10	162.90	1.80	95.	167.	1597.	1.0	14.	22.
			Spotted medium red-brown alteration mineral (biotite?) (carbonate?) to 4mm diameter clots and also a dark apple green alteration mineral. Both have a slightly waxy lustre. Minor sphalerite also seen in quartz veinlets.										
162.90	165.10	5B	ANDESITE DYKE	18963	162.90	164.00	1.10	474.	371.	2435.	13.3	27.	2.
			Dark green, fine grained with fine feldspar phenocrysts; also short sections of hornblende phenocrysts to 2mm diameter. Top contact unknown in ground core. Bottom contact sharp @ 37 deg. CA.	18964	164.00	165.10	1.10	226.	54.	2116.	1.1	9.	13.
165.10	199.30	3a	SILICEOUS (FRAGMENTAL) TUFF	18965	165.10	166.60	1.50	611.	678.	2631.	13.5	78.	1150.
			165.10 to 199.30 - Recovery is 95%	18966	166.60	168.10	1.50	152.	496.	2835.	15.3	80.	1030.
			Similar to above tuff unit except this unit is dominated by finer grained,	18967	168.10	169.60	1.50	140.	178.	622.	5.5	62.	120.
			medium grey (crystal) tuff with short sections (< 1m) of lapilli (fragmental)	18968	169.60	171.10	1.50	147.	294.	1565.	6.5	52.	130.
			tuff. Fragments to 4cm diameter are seen although most average .5 to 1.5 cm. Fragments are of similar lithology as the host. Rock is highly silicified and the protolith was likely of dacitic composition (no quartz eyes, no mafic phenos). Broken feldspar phenocrysts comprise to 30% of rock and show no definite fabric.	18969	171.10	172.60	1.50	185.	284.	1377.	6.9	61.	480.
				18970	172.60	174.10	1.50	112.	256.	1697.	5.5	36.	510.
174.00	174.90	Qfz	QUARTZ FLOOD ZONE	18971	174.10	175.60	1.50	1185.	641.	3295.	22.8	52.	960.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : HQ90-2

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
165.09	165.10			37	162.90	165.10	2	0	0	2	0
167.00	167.01	52			165.10	166.60	12	.5	.5	3	2
169.30	169.31			76	166.60	167.90	12	TR	TR	3	2
171.50	171.51	65			167.90	169.60	7	TR	TR	3	2
172.90	172.91			70	169.60	171.10	5	.5	.5	3	2
					171.10	174.90	3	.5	.5	3	2
174.30	174.31			65	174.90	178.30	3	TR	TR	3	2

Hole No: HQ90-2

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-2

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS			
FROM	TO				FROM	TO							Au ppb			
176.00	176.90	qfz	QUARTZ FLOOD ZONE	18972	175.60	177.10	1.50	181.	1084.	1985.	15.9	62.	690.			
			Quartz veinlets are common at 2 to 5 per 10cm and range in orientation from 5 to 90 deg. CA. Traces of sphalerite and galena are seen within the quartz veinlets as at 174.0 - 174.9 and 176.0 - 176.9. 165.1 - 167.5 Pyrite form a network pattern on core, filling fractures and in veinlets and disseminated. Approximately 12%. 169.3 Fault gouge (1 cm @ 76 deg. CA) 169.9 - 171.1 Blocky core and some gouge. 172.8 - 173.0 Blocky core and some gouge. 174.3 - 174.5 Blocky core and some gouge.	18973	177.10	178.30	1.20	122.	813.	1515.	17.1	74.	1010.			
178.30	179.50	5B	ANDESITE DYKE	18974	178.30	179.50	1.20	122.	55.	298.	1.0	27.	24.			
			Dark green, fine grained, few phenocrysts. Pyrite filled hairline fractures common. Fractured core at three locations - source of lost water circulation. Faults @ 18 deg. CA, 20 deg. CA.	18975	179.50	181.00	1.50	74.	107.	189.	2.4	36.	23.			
				18976	181.00	182.50	1.50	115.	151.	201.	3.4	36.	370.			
				18977	182.50	184.00	1.50	121.	281.	214.	4.5	32.	700.			
				18978	184.00	185.50	1.50	49.	201.	300.	6.1	59.	160.			
				18979	185.50	187.00	1.50	106.	334.	679.	14.5	48.	420.			
				18980	187.00	188.50	1.50	56.	94.	346.	5.1	46.	180.			
				18981	188.50	190.00	1.50	64.	109.	1410.	7.2	56.	900.			
				18982	190.00	191.50	1.50	74.	98.	287.	1.8	38.	66.			
				18983	191.50	192.20	0.70	32.	91.	316.	6.4	34.	500.			
					Rock below dyke continues as before. 181.0 - 183.8 Blocky core. 185.8 - 189.3 Rock becomes spotted brown (biotite? - sphalerite?) plus minor increase in pyrite											
					189.3 - 192.2 Rock becomes more bleached (separate buff unit?) and spotted brown (biotite?).											
			192.20	195.00	5B	ANDESITE DYKE	18984	192.20	193.70	1.50	166.	26.	888.	1.0	8.	25.
As 178.3 - 179.5 Top contact in 2cm fault gouge, bottom contact unknown in highly rubbled core.	18985	193.70				195.00	1.30	116.	53.	697.	1.2	12.	4.			

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-2

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
178.30	178.31				30	178.30	179.50	2	0	0	2	0
178.70	178.71			18		179.50	181.00	3	TR	TR	3	1
179.49	179.50			20		181.00	183.00	3	TR	TR	3	1
						183.00	185.80	4	TR	TR	3	0
						185.80	192.20	3	TR	TR	3	2
192.20	192.21			20	20	192.20	195.00	1	0	0	3	0
						195.00	199.30	3	0	0	3	0
						199.30	218.20	1	0	0	2	0

Hole No: NQ90-2

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-2

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS	
FROM	TO				FROM	TO							Au ppb	Pb ppb
195.00	199.30	Pzx	Entire unit is moderately to highly blocky and continues to 195.2. FAULT ZONE Rock below dyke continues as before (silic tuff). Entire section is highly broken to rubble. Narrow fault gouge common up to 20cm as at 198.2 - 198.4 (no orientation). Fractures are limonitic from surface weathering.	18986	195.00	196.50	1.50	239.	150.	767.	4.7	61.	16.	
				18987	196.50	198.00	1.50	56.	51.	392.	1.7	44.	121.	
				18988	198.00	199.30	1.30	91.	236.	1220.	2.0	32.	68.	
199.30	218.20	5B	ANDESITE DYKE 199.30 to 218.20 - Recovery is 95% Grey green, medium grained equigranular (1mm diameter) feldspar and anhedral mafics. The unit is massive with cross cutting quartz - carbonate veins at 1 per 20cms generally at 30 deg. CA; often pyrite filled, otherwise unit contains very minor pyrite	18989	199.30	201.30	2.00	44.	17.	176.	0.5	2.	18.	
				18990	201.30	203.30	2.00	58.	8.	128.	0.5	2.	2.	
				18991	203.30	205.30	2.00	69.	6.	114.	0.4	2.	2.	
				18992	205.30	207.30	2.00	54.	10.	89.	0.5	5.	1.	
				18993	207.30	209.30	2.00	53.	23.	149.	0.4	2.	1.	
				18994	209.30	211.30	2.00	57.	25.	185.	0.4	2.	2.	
				18995	211.30	213.30	2.00	55.	15.	225.	0.5	2.	1.	
				18996	213.30	215.30	2.00	56.	12.	235.	0.4	3.	12.	
214.20	218.20	Pzx	FAULT ZONE 214.2 - 215.4 Rubble core. 215.8 - 216.1 Rubble core. 216.7 - 218.2 Highly broken core. 212.4 - 218.2 Dyke is finer grained and similar to 178.3 - 179.5. 217.4 - 218.2 Slight increase in red-brown (biotite?) matrix. No change in sulphides. 218.2 END OF HOLE Casing and casing shoe left in hole.	18997	215.30	217.30	2.00	67.	13.	276.	0.4	2.	9.	
				18998	217.30	218.20	0.90	162.	341.	391.	1.6	12.	20.	

MORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-2

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding	Fabric	Faults Contact	FROM	TO	Py	Sp	Gn	Sil	Bi
		deg	deg	deg deg			%	%	%	0 to 3	0 to 3

FEBRUARY 18, 1991

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SURVEY RECORD
QUET PROJECT
DOWNHOLE DIP TESTS

DRILL HOLE NUMBER : NQ90-3

GRID SYSTEM :

FOOTAGE	TEST TYPE	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION
0.00		360.00	-50.00	30038.000	31101.000	882.000
63.10	A	360.00	-49.00	30078.980	31101.000	834.019
121.00	A	360.00	-49.00	30116.965	31101.000	790.321
178.30	A	360.00	-48.00	30154.933	31101.000	747.407
233.50	A	360.00	-48.00	30191.869	31101.000	706.385

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3
Grid System :
Collar Eastings : 31101.000
Collar Northings : 30038.000
Collar Elevations : 882.000
Collar Bearing : 360.00
Grid Baseline : 90.00

Collar Inclination : -50.00
Grid Bearing : 360.00
Final Depth : 276.50
Claim No. : QUET 1&10

PAGE : 1

Logged by : ROB G WILSON
Date : SEPTEMBER - SEPTEMBER
Downhole Survey : ACID
Drilled By : PARAGON DRILLING
Core Size : NQ

INTERVAL(m)		MAJOR/MINOR	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS
FROM	TO	UNITS			FROM	TO							Au ppb
0.00	9.10	C/I	OVERBURDEN No core. Fill for the drillpad. Lost water return while setting casing. Casing to 9.8m.										
9.10	62.50	3ab	SILICEOUS (FRAGMENTAL) LAPILLI TUFF 9.1 to 62.5 - Recovery is 95% Pale grey green, coarse lapilli tuff fragments in a finer light grey tuff matrix. Fragments to 3cm are sub-angular to sub-rounded and are of similar composition to the host which may have been a dacite (no quartz eyes seen). The rock is moderately silicified. The tuff is cross-cut by numerous randomly oriented quartz veinlets which reaches stockwork proportions below 30.0m for 1-2m lengths, but is not continuous. Pyrite occurs as fine grained disseminations, along fractures and surrounding fragments. The percent pyrite varies but averages above 3%. Sphalerite, as red brown and honey colored varieties, occurs mainly within quartz-veins and quartz flood zones often rimming fragments and producing a network design. Sphalerite is first recognized below 17.8m Brown biotite is only seen rarely at the top of the hole in irregular patches. Limonitic coating along fractures are seen down to 70m.	19001	9.10	9.40	0.30	28.	81.	83.	0.2	3.	5.
9.40	10.00	5b	ANDESITE DYKE Dark green, fine grained, few phenocrysts, very minor sulphide. Contacts unknown in broken core.	19002 19003 19004	9.40 10.00 11.70	10.00 11.70 13.40	0.60 1.70 1.70	49. 26. 35.	59. 110. 35.	168. 74. 169.	0.5 0.5 0.1	10. 2. 3.	11. 2. 2.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3
Grid System :
Collar Eastings : 31101.000
Collar Northings : 30038.000
Collar Elevations : 882.000
Collar Bearing : 360.00
Grid Baseline : 90.00

Collar Inclination : -50.00
Grid Bearing : 360.00
Final Depth : 276.50
Claim No. : QUET 1&10

PAGE : 1

Logged by : ROB G WILSON
Date : SEPTEMBER - SEPTEMBER
Downhole Survey : ACID
Drilled By : PARAGON DRILLING
Core Size : NQ

GEO TECHNICAL SAMPLES						GEOCHEMICAL SAMPLES						
FROM	TO	Bedding	Fabric	Faults	Contact	FROM	TO	Py	Sp	Gn	Sil	Bi
		deg	deg	deg	deg			%	%	%	0 to 3	0 to 3
						9.10	9.40	3	0	0	2	0
12.30	12.31		60			9.40	10.00	<1	0	0	2	0
						10.00	13.40	3	0	0	2	0
13.40	13.41				44	13.40	17.70	<1	0	0	2	0

Hole No: NQ90-3

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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GEO TECHNICAL SAMPLES						GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
19.50	19.51				33	17.70	22.00	5	<1	0	2	1
20.20	20.21		50			22.00	31.40	2	<1	TR	2	1
28.40	28.41	57				31.40	32.50	2	<1	TR	3	0
						32.50	36.50	3	1	TR	3	0
						36.50	37.20	5	2	TR	3	0
						37.20	41.70	7	1	TR	3	0
						41.70	42.80	5	1	TR	3	1
						42.80	44.80	3	<1	TR	3	1
						44.80	50.30	3	<1	TR	3	1
46.20	46.21				24	50.30	53.40	3	<1	TR	3	2
						53.40	54.60	1	TR	TR	1	0
53.40	53.41		32		32	54.60	54.80	4	1	0	2	3
54.59	54.60		37		37	54.80	55.30	2	0	0	2	3
						55.30	55.70	4	1	0	2	3
						55.70	59.40	2	0	0	2	3

Hole No: NQ90-3

MORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : MQ90-3

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS		
FROM	TO				FROM	TO							Au ppb	Pb ppb	
			altered. Sulphides, pyrite mainly are confined to fracture planes. Traces of sphalerite are seen along infrequent quartz veinlets. 54.6 - 54.8 Traces of sphalerite. 55.3 - 55.7 Traces of sphalerite.												
59.40	62.50	5B	ANDESITE DYKE	19035	59.40	60.90	1.50	120.	41.	228.	0.6	6.	13.		
			As 9.0 - 10.0. Top contact sharp @ 39 deg. CA. Bottom contact sharp @ 39 deg. CA in fault gouge (as top contact). Quartz carbonate veins are common.	19036	60.90	62.50	1.60	116.	55.	157.	1.0	7.	66.		
62.50	72.00	4	MODULAR TUFF	19037	62.50	64.00	1.50	76.	56.	333.	1.5	7.	40.		
			62.5 to 72.0 - Recovery is 100%	19038	64.00	65.50	1.50	66.	178.	870.	2.7	8.	59.		
			Brown - green, very hard, with greenish lapilli tuff (1.5 - 1.5 cm.) nodules (sub-round) in a matrix of medium brown, (biotite?) tuff. Nodules are tuff to lapilli tuff in composition.	19039	65.50	67.00	1.50	145.	215.	1248.	5.9	19.	350.		
			Pyrite is disseminated and rims are fragmental. No sphalerite is seen. Short sections of non-nodular tuff (as above lapilli (fragmental) tuff) as at 66.0 - 66.2 and 61.9 - 62.2. These have sharp contacts (upper) and grade into the nodular tuff. Event tops?	19040	67.00	68.50	1.50	44.	37.	237.	0.7	4.	80.		
			The nodular tuff is otherwise massive bedded. Contact with below sharp @ 90 deg. CA.	19041	68.50	70.00	1.50	89.	20.	124.	0.9	4.	8.		
				19042	70.00	71.50	1.50	73.	17.	139.	1.0	4.	49.		
				19043	71.50	72.00	0.50	90.	14.	137.	1.0	4.	28.		
72.00	83.70	5B	ANDESITE DYKE?	19044	72.00	73.50	1.50	52.	43.	181.	0.7	8.	10.		
			72.0 to 83.7 - Recovery is 100%	19045	73.50	75.00	1.50	76.	46.	403.	0.5	5.	7.		
			Fine grained, brown, chilled margin grading into dark green, fine grained, moderately hard andesite dyke? Only minor ghosted feldspar phenocrysts. In places, the rock appears amygdaloidal. Hairline to .5cm quartz carbonate veinlets @ approximately 30 deg. CA are common.	19046	75.00	76.50	1.50	63.	36.	261.	0.5	5.	11.		
				19047	76.50	78.00	1.50	60.	57.	150.	0.5	2.	3.		
				19048	78.00	79.50	1.50	47.	34.	225.	0.7	5.	9.		
				19049	79.50	81.00	1.50	102.	22.	389.	0.4	4.	8.		
				19050	81.00	82.50	1.50	39.	69.	192.	0.4	3.	3.		
				19051	82.50	84.00	1.50	50.	31.	273.	0.5	2.	15.		

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding	Fabric	Faults	Contact	FROM	TO	Py	Sp	Gn	Sil	Bi
		deg	deg	deg	deg			%	%	%	0 to 3	0 to 3
59.40	59.41				39	59.40	62.50	1	0	0	1	0
62.49	62.50				39							
63.00	63.01	49				62.50	72.00	2	0	0	1	3
66.00	66.01		30									
67.00	67.01			32								
71.99	72.00				90							
79.90	79.91			85		72.00	83.70	1	0	0	2	0
83.69	83.70				44							

Role No: NQ90-3

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : HQ90-3

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INTERVAL(m) FROM TO	MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS Au ppb	
				FROM	TO								
		Pyrite is present as fine grained disseminations and coating some hairline fractures but is otherwise rare. 79.9 - 80.0 Fault gouge. Contact with below sharp @ 44 deg. C.A. (fault gouge).											
83.70	138.20	4	MODULAR TUFF	19052	84.00	85.50	1.50	62.	27.	257.	1.0	21.	90.
			83.7 to 138.2 - Recovery is 95%	19053	85.50	87.00	1.50	232.	19.	125.	0.9	11.	57.
			As 62.5 - 72.0 except more silicified and nodule borders are less distinct.	19054	87.00	88.50	1.50	57.	21.	233.	0.6	8.	63.
			Pyrite is finely disseminated and is more abundant. Brown matrix (biotite?) is fine grained and comprises 50% of rock. Bedding appears to be massive and no sphalerite or galena is seen. Nodules range in size from 3mm to 2cm and are seen to grade into areas with resorbed edges producing a brown green swirl pattern.	19055	88.50	89.20	0.70	61.	31.	420.	0.9	6.	91.
89.20	90.50	5B	ANDESITE DYKE	19056	89.20	90.50	1.30	101.	42.	240.	0.5	13.	10.
			As 9.0 - 10.0. Very minor sulphides.	19057	90.50	92.00	1.50	251.	30.	208.	1.1	19.	50.
91.20	93.90	Pzx	PAULT ZONE	19058	92.00	93.50	1.50	169.	7.	297.	0.7	8.	40.
			91.2 - 91.6 Limonitic coated fracture zone @ 14 deg. CA.	19059	93.50	95.00	1.50	119.	44.	162.	0.5	9.	35.
			93.6 - 93.9 Broken to rubble core.	19060	95.00	96.50	1.50	15.	8.	127.	0.2	10.	6.
			94.3 - 94.5 Quartz vein @ 60 deg. CA.	19061	96.50	98.00	1.50	117.	11.	111.	0.3	9.	4.
			94.7 Bedding? @ 28 deg. CA or fabric.	19062	98.00	99.50	1.50	76.	15.	117.	0.4	18.	7.
			102.2 - 102.5 Highly broken core. Short section of non-nodular tuff is seen over .3 - 1.0m lengths as at 90.7 - 90.9; 97.6 - 97.8. 97.7 bedding @ 72 deg. CA.	19063	99.50	101.00	1.50	80.	44.	176.	0.4	22.	9.
			103.8 Seritic gouge (2cm) @ 20 deg. CA.	19064	101.00	102.50	1.50	78.	25.	133.	0.4	13.	19.
102.20	104.80	qfz	QUARTZ FLOOD ZONE	19065	102.50	104.00	1.50	131.	45.	242.	0.6	19.	20.
			Slight increase in quartz flooding and minor quartz veinlets with traces of sphalerite as at 105.4 - 105.6; 108.5 - 109.0. Only a single to double stage of quartz infusion is noted. Though minor quartz veinlets cut the dykes, the sphalerite carrying flooding and veining is pre dyking.	19066	104.00	104.80	0.80	268.	48.	255.	1.3	6.	15.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
89.19	89.20			30	30	89.70	89.20	3	0	0	2	3
90.49	90.50			36	36	89.20	90.50	1	0	0	2	0
94.70	94.71		28			90.50	104.80	3	0	0	2	3
97.70	97.71	72										
103.80	103.81			20								

Hole No: NQ90-3

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
104.80	104.81			43	104.80	105.10	1	0	0	2	0
105.09	105.10			44	105.10	105.80	3	TR	0	2	2
105.80	105.81			54	105.80	106.50	1	0	0	2	0
106.49	106.50			45	106.50	107.40	3	0	0	2	2
107.40	107.41			34	107.40	108.50	1	0	0	2	0
108.49	108.50			44	108.50	110.20	3	TR	0	2	2
110.20	110.21			47	110.20	113.30	1	0	0	2	0
113.29	113.30			62	113.30	114.20	3	0	0	2	2
114.20	114.21			52	114.20	115.50	1	0	0	2	0
115.49	115.50			38	115.50	123.40	4	0	0	2	3
125.90	125.91	73			123.40	123.50	8	2	1	2	3
					123.50	129.00	5	0	0	2	3
129.00	129.01			60	129.00	129.90	1	0	0	2	0
129.89	129.90			50							

Hole No: NQ90-3

MORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	ASSAYS		
FROM	TO				FROM	TO						As ppm	Au ppb	
129.00	129.90	5B	ANDESITE DYKE As 114.2 - 115.5 Top contact gradational. Bottom contact sharp. A pyrite filled quartz carbonate vein at 10 deg. CA crosses the bottom contact at 131.7 - 132.2.	19084	129.00	130.00	1.00	65.	14.	59.	0.5	5.	12.	
129.90	131.40	Qfz	QUARTZ FLOOD ZONE Increase in quartz flooding and veining, with traces of sphalerite and galena. Veining is weak, 1 per 20cm average and 1- 2cm in width. Occasionally a 2 stage veining is seen.	19085 19086	130.00 131.30	131.30 131.90	1.30 0.60	164. 56.	374. 22.	1174. 173.	2.4 0.6	10. 3.	100. 27.	
131.40	132.00	5B	ANDESITE DYKE Same as 129.0 - 129.9.	19087	131.90	133.50	1.60	107.	53.	941.	1.4	12.	21.	
132.00	136.00	Qfz	QUARTZ FLOOD ZONE Same as 129.9 - 131.4.	19088 19089 19090 19091	133.50 135.00 136.50 138.00	135.00 136.50 138.00 139.20	1.50 1.50 1.50 1.20	134. 142. 213. 112.	28. 1827. 31. 67.	134. 3193. 145. 305.	1.1 11.4 2.8 1.8	17. 21. 15. 12.	20. 620. 99. 58.	
138.10	138.20	Fgx	FAULT GOUGE 139.2 - 142.6 Core is bleached light green grey, minor biotization, but appears to have been the same original rock. Gradational boundaries to the bleaching. Short sections to .3m of coarse fragmental tuff is seen as at 141.9 - 142.2. A sense of bedding is seen at a change to coarse fragmentals at 139.7. Sphalerite is scattered throughout this section. hardness increases at bleaching contact.											
138.20	166.10	4	Unit 83.7 - 145.5 continued.											
138.20	139.20	Qfz	QUARTZ FLOOD ZONE 138.2 to 166.5 - Recovery is 95% Minor increase only in flooding and veining.	19092 19093 19094 19095	139.20 140.70 142.20 143.70	140.70 142.20 143.70 145.50	1.50 1.50 1.50 1.80	63. 42. 52. 43.	79. 64. 71. 126.	216. 678. 143. 351.	0.8 1.1 0.9 1.2	10. 7. 4. 14.	29. 22. 61. 110.	
145.50	146.20	7	142.6 - 145.5 Rock is less bleached (more biotite) and is angular like 121.0 - 127.0. Quartz flooding is weak with traces of sphalerite. PALE GREEN TUFF? OR DYKE Pale green, very fine grained with ghost	19096	145.50	146.20	0.70	48.	21.	93.	0.3	2.	4.	

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
						129.90	131.40	5	2	1	2	3
131.40	131.41				70	131.40	132.00	1	0	0	2	0
131.99	132.00				64	132.00	132.50	5	2	1	2	3
						132.50	136.20	5	TR	0	2	3
						136.20	136.30	5	3	1	2	3
						136.30	138.10	5	0	0	2	3
						138.10	139.20	7	TR	0	2	3
139.70	139.71				53	139.20	142.60	4	1	TR	3	1
						142.60	145.50	3	TR	0	2	2
145.50	145.51				45	145.50	146.20	TR	0	0	3	0
146.19	146.20				30							
155.29	155.30				48	146.20	155.30	2	0	0	3	0

Hole No: NQ90-3

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
160.49	160.50			32	155.30	160.50	<1	0	0	3	0
161.99	162.00			50	160.50	162.00	1	0	0	3	0
162.99	163.00			25	162.00	163.00	<1	0	0	3	0
166.09	166.10			52	163.00	166.10	1	0	0	2	2
					166.10	167.60	2	TR	0	3	2
					167.60	169.20	3	1	0	3	2
					169.20	173.00	1	0	0	3	1
					173.00	173.50	1	0	0	3	0
					173.50	174.00	2	1	0	3	1
175.60	175.61			50	174.00	194.20	1	0	0	3	0
181.60	181.61			62							
185.50	185.51			45							
186.10	186.11			35							
187.39	187.40			60							

Hole No: NQ90-3

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	ASSAYS					
FROM	TO				FROM	TO		Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb
			of sphalerite. Contact with below unknown in blocky and broken core over 30 cm.										
174.00	196.90	8d	ANDESITE CRYSTAL TUFF	19114	174.00	175.50	1.50	128.	18.	105.	0.3	8.	13.
			174.0 to 196.9 - Recovery is 100%	19115	175.50	177.00	1.50	47.	2.	83.	0.2	5.	3.
			Medium to dark green matrix with sub-angular 1-3mm diameter feldspar crystal fragments as a crystal mesh (50-60% of rock) with < 10% mafic crystal fragments.	19116	182.00	184.00	2.00	56.	2.	126.	0.1	4.	7.
			Throughout unit several sub-units of the same rock are present, each with a finer grained contact margin (dark green, few fragments). Entire unit is massive "bedded" though slight bleaching enveloping hairline fractures gives the appearance of fabric at 54 deg. CA. Quartz calcite veining is present, but not abundant. Pyrite is the only sulphide seen, though unit is moderately magnetic throughout, and strongly magnetic in places. (no magnetite seen). 177.5 - 177.6 Blocky core. 180.1 - 180.2 Quartz carbonate vein with pyrite @ 26 deg. CA. 180.9 - 181.1 Quartz carbonate veins @ 36 deg. CA. 186.1 - 187.4 Pale grey green very fine grained with occasional mafic "spots" (circular dark green with fuzzy edges). Slight "flow banding" is seen at the top 20cm (and bottom).	19117	188.10	190.10	2.00	57.	2.	94.	0.2	4.	10.
191.10	192.20	5B	ANDESITE DYKE	19118	193.00	194.20	1.20	62.	7.	149.	0.1	5.	4.
			Fine grained, dark green with <1 mm angular fragments (is this a fine grained tuff?) Field relationships generally indicate these to be cross-cutting. Non-magnetic.	19119	194.20	195.60	1.40	133.	40.	240.	0.4	5.	52.
			Contact with below gradational over 40 cm.	19120	195.60	196.90	1.30	63.	6.	68.	0.1	8.	11.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding	Fabric	Faults	Contact	FROM	TO	Py	Sp	Gn	Sil	Bi
		deg	deg	deg	deg			%	%	%	0 to 3	0 to 3
						194.20	195.60	5	0	0	4	1
						195.60	196.90	1	0	0	4	0
						196.90	224.30	5	0	0	4	2

Hole No: NQ90-3

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS Au ppb
FROM	TO				FROM	TO							
			194.2-196.9 Contact zone. Mixture of fine grained 'dyke' as 191.2-192.2 and a sulphide rich, partly fragmental and silicified mafic rock. 194.2-195.6 Fragmental. 195.6-196.9 Fine grained dyke.										
196.90	224.30	4	MODULAR TUFF	19121	196.90	198.40	1.50	142.	11.	173.	0.1	2.	31.
			196.9 to 224.3 - Recovery is 95%	19122	198.40	200.00	1.60	94.	9.	548.	0.1	4.	42.
			Dark green-brown, fine grained matrix	19123	202.00	204.00	2.00	86.	10.	181.	0.1	2.	37.
			with 20% sub-angular to sub-rounded light	19124	206.00	208.00	2.00	58.	8.	145.	0.3	4.	37.
			green fine grained tuff 'nodules'.	19125	210.00	212.00	2.00	85.	43.	130.	0.3	4.	25.
			Pyrite is disseminated throughout and in	19126	214.00	216.00	2.00	136.	186.	320.	1.2	4.	30.
			veinlets and along hairline fractures.	19127	218.00	220.00	2.00	47.	2.	127.	0.1	2.	4.
			Quartz calcite veinlets are rare as is	19128	222.00	224.30	2.30	105.	7.	119.	0.4	6.	25.
			quartz flooding.										
			218.2-219.0 Quartz & pyrite filled										
			cm open space veinlet at 10 deg. C.A.										
			Contact with below unknown between core										
			runs - some redrilled core.										
224.30	235.40	5B	INTERMIXED FINE TO VERY FINE ANDESITE	19129	224.30	226.30	2.00	46.	6.	85.	0.4	3.	6.
			DYKES	19130	228.00	230.00	2.00	33.	11.	32.	0.5	3.	6.
			224.3 to 235.4 - Recovery is 100%	19131	232.00	234.00	2.00	81.	2.	56.	0.6	5.	7.
			Pale to dark green, very fine to fine	19132	234.00	235.40	1.40	134.	2.	58.	0.5	7.	16.
			grained mafic dykes which are intermixed										
			and bleached in the vicinity of hairline										
			fractures. Minor siliceous overprinting.										
			224.3-225.2 Very fine grained.										
			225.2-227.1 Pine grained.										
			227.1-231.4 Very fine grained.										
			231.4-235.4 Fine grained.										
			Gradational contacts only exist between										
			the units. The units are generally										
			non-magnetic in the very fine grained										
			phase and variably magnetic (including										
			magnetic clasts to 2 cm x 0.5 cm in size										
			as @ 235.0 m.										
			Contact with below sharp @ 54 deg.										
235.40	239.40	4	MODULAR TUFF	19133	235.40	236.90	1.50	58.	2.	84.	0.3	2.	12.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults Contact deg deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
224.80	224.81		42		224.30	235.40	<1	0	0	2	0
233.80	233.81		54								
235.39	235.40			54							
					235.40	239.40	3	0	0	2	2
240.49	240.50			50	239.40	248.00	1	0	0	3	0
240.79	240.80			48							
241.50	241.51			48							
244.60	244.61			30							

Hole No: NQ90-3

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	ASSAYS	
FROM	TO				FROM	TO						As ppm	Au ppb
			235.4 to 239.4 - Recovery is 100% Brownish purple fine grained matrix with 1-3 cm light grey subrounded to subangular lapilli (20%) and dark green irregular mafic lapilli. The light grey fragments are partly reabsorbed with fuzzy borders. Contact with below gradational over 20 cm.										
239.40	248.00	5B	INTERMIXED VERY FINE TO COARSE ANDESITE DYKES	19134 19135	239.40 241.60 241.60 243.10	2.20 1.50	105. 18.	2. 25.	90. 35.	0.4 0.5	6. 16.	6. 14.	
			239.4 to 248.0 - Recovery is 100% As 224.3-235.4 except contacts between very fine and coarse units are sharp. 239.4-240.5 Coarse grained, as 174.0 - 194.0. 240.5-240.8 Very fined with a developed fabric parallel to contacts. 240.8-241.5 As 239.4-240.5. 241.5-244.6 Very fine grained extremely silicified (242.6-243.0 is almost pure quartz). 244.6-248.0 As 239.4-240.5 m.	19136	247.00 249.00	2.00	108.	27.	186.	0.8	2.	15.	
248.00	258.20	4	MODULAR TUFF	19137	251.00 253.00	2.00	28.	5.	87.	0.1	8.	17.	
			248.0 to 258.2 - Recovery is 100% As 235.4-239.4 Very competent core. Contact with below gradational over 10 cm.	19138	255.00 257.00	2.00	74.	2.	112.	0.2	4.	17.	
258.20	276.50	5B	INTERMIXED FINE AND VERY FINE ANDESITE DYKES	19139 19140	261.00 263.00 266.50 268.50	2.00 2.00	89. 40.	14. 8.	120. 84.	0.1 0.1	5. 2.	3. 7.	
			258.2 to 276.5 - Recovery is 100% As 224.3-235.4. 258.2-266.5 Fine grained. 266.5-267.3 Very fine grained. 267.3-276.5 Slightly porphyritic, fine grained. 276.5. End of Hole. 10 feet casing and shoe left in hole.	19141 19142	270.50 272.50 274.50 276.50	2.00 2.00	19. 136.	14. 79.	144. 702.	0.1 0.6	2. 9.	1. 10.	

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-3

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
247.99	248.00				56							
						248.00	258.20	5	0	0	3	2
						258.20	276.50	1	0	0	3	0

Hole No: NQ90-3

FEBRUARY 18, 1991

PAGE: 1

SURVEY RECORD
QUET PROJECT
DOWNHOLE DIP TESTS

DRILL HOLE NUMBER : NQ90-4

GRID SYSTEM :

FOOTAGE	TEST TYPE	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION
0.00		360.00	-52.00	30106.000	31400.000	833.000
60.00	A	360.00	-51.00	30143.350	31400.000	786.044
124.00	A	360.00	-50.00	30184.059	31400.000	736.661

MORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PAGE : 1

PROPERTY : QUET
HOLE No. : NQ90-4
Grid System :
Collar Eastings : 31400.000
Collar Northings : 30106.000
Collar Elevations : 833.000
Collar Bearing : 360.00
Grid Baseline : 90.00

Collar Inclination : -52.00
Grid Bearing : 360.00
Final Depth : 133.20
Claim No. : QUET 1&10

Logged by : R.G. WILSON
Date : SEPTEMBER 27, 1990 - SEPTEMBER 30, 1990
Downhole Survey : ACID
Drilled By : PARAGON DRILLING
Core Size : NQ

GEO TECHNICAL SAMPLES

GEOCHEMICAL SAMPLES

FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
8.30	8.31		57			3.00	26.00	1	TR	TR	3	0
12.20	12.21		56			26.00	35.80	2	TR	TR	3	0
18.50	18.51		72									
25.60	25.61		59									

Hole No: NQ90-4

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-4

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	ASSAYS												
FROM	TO				FROM	TO		Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb							
			surface weathering from 26.5 to 44.0m. Fracture surfaces are limonitic coated. Pyrite remains fine grained, disseminated, and 1-2% through to 35.7.																	
35.80	37.50	5B	ANDESITE DYKE	19165	35.80	37.50	1.70	87.	54.	534.	1.6	18.	36.							
			Dark green, fine grained with occasional feldspar phenocrysts. Core is highly broken. Contacts in fault gouge, (no orientation). Unit is non-magnetic.	19166	37.50	39.00	1.50	58.	275.	769.	6.0	16.	466.							
				19167	39.00	40.10	1.10	423.	636.	3217.	2.5	13.	200.							
40.10	41.20	5B	ANDESITE DYKE	19168	40.10	41.20	1.10	203.	216.	622.	2.4	13.	65.							
			As 35.8 - 37.5. Bottom contact in fault gouge in a 5cm andesite dyke.	19169	41.20	42.70	1.50	179.	398.	895.	6.2	35.	285.							
				19170	42.70	44.30	1.60	139.	842.	822.	18.5	37.	1074.							
44.30	66.10	3ab	SILICEOUS LAPILLI (FRAGMENTAL) TUFP	19171	44.30	45.80	1.50	185.	399.	827.	6.6	43.	466.							
			44.3 to 66.1 - Recovery is 95%	19172	45.80	47.30	1.50	321.	1179.	2063.	26.9	189.	1558.							
			Light grey, silica replaced matrix with angular lapilli and sub-angular fragments from 1-3 cm. Quartz eyes are not as prevalent in this unit, hence may have been a dacite (no mafics seen). The fragments are seen cross-cut by earlier double staged quartz veining and a third stage has cut the recemented rock.	19173	47.30	49.00	1.70	110.	112.	332.	7.0	77.	608.							
				19174	49.00	50.50	1.50	56.	155.	250.	3.3	31.	266.							
				19175	50.50	52.00	1.50	26.	145.	262.	5.4	37.	513.							
				19176	52.00	53.50	1.50	45.	199.	262.	4.4	20.	371.							
				19177	53.50	55.00	1.50	111.	1319.	3130.	27.5	91.	1036.							
				19178	55.00	56.50	1.50	42.	299.	188.	4.9	29.	361.							
				19179	56.50	58.00	1.50	106.	434.	1903.	4.6	46.	640.							
				19180	58.00	59.50	1.50	78.	234.	340.	3.8	27.	350.							
			This unit is similar to the fragmental mineralized unit of holes 90-2 and 90-3 and contains distinct quartz flood zones. Above unit is not fragmental and contains no flood zones. Both units are pervasively silicified. Sphalerite is seen more frequently, though total percentage Zn is lower than holes 90-2 and 90-3. Puchite is seen as rare spots, especially 44.3-57.0. Quartz veining, when present is usually single phase to double phase. Zones of biotization are present in rare 10cm sections as at 49.3 and 54.3. The fragments become less frequent and smaller in size down unit, though a crackle breccia persists.	19181	59.50	61.00	1.50	91.	535.	474.	7.5	37.	840.							
				19182	61.00	62.50	1.50	66.	348.	471.	3.7	35.	390.							
				19183	62.50	64.30	1.80	120.	440.	1408.	3.0	32.	350.							
				19184	64.30	66.10	1.80	192.	763.	1898.	9.9	106.	1430.							

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-4

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
						35.80	37.50	1	0	0	3	0
						37.50	40.10	2	TR	TR	3	0
40.10	40.11				55	40.10	41.20	1	0	0	3	0
41.19	41.20			35	35	41.20	44.30	2	TR	TR	3	0
44.29	44.30				69							
47.50	47.51	55				44.30	53.90	3	TR	TR	3	0
66.09	66.10				35	53.90	54.50	3	1	TR	3	0
						54.50	66.10	3	TR	TR	3	0

Hole No: NQ90-4

MORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : HQ90-4

PAGE : 3

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS	
FROM	TO				FROM	TO							Au ppb	
			53.9-57.0 Core loss of .5m, though no evidence of ground core. Broken core at 56.5 may be a cave. 63.1-64.6 Blocky core. Contact with below in gouge at 35 deg to CA.											
66.10	71.90	7	PALE GREEN TUFF	19185	66.10	67.60	1.50	54.	271.	287.	1.2	9.	93.	
			66.1 to 71.9 - Recovery is 100%	19186	70.20	71.70	1.50	28.	69.	145.	0.5	13.	44.	
			Pale green-grey, very fine grained, very hard with faint ghosted tuff fragments of feldspar and mafics. Core is highly broken (limonitic fracture faces) with hairline darker green fracture traces at irregular angles. 68.5-68.6 Fault gouge. Contact with below unknown in broken core.	19187	71.70	73.00	1.30	140.	715.	1193.	6.8	33.	640.	
71.90	96.70	3ab	SILICEOUS LAPILLI (FRAGMENTAL) TUFF	19188	73.00	74.50	1.50	129.	341.	681.	6.2	26.	410.	
			71.9 to 96.7 - Recovery is 95%	19189	74.50	76.00	1.50	85.	333.	1086.	3.2	38.	350.	
			As 44.3-66.1 but fragments are less frequent.	19190	76.00	77.50	1.50	153.	1131.	2049.	7.4	21.	360.	
			Quartz veining is common (average 1 per 10cm) and usually contains sphalerite, both red-brown and honey colored varieties	19191	77.50	79.00	1.50	189.	1283.	2742.	7.3	18.	390.	
			Pyrite is disseminated and in veinlets but still is only 1-3%.	19192	79.00	80.50	1.50	378.	1398.	4449.	10.8	40.	690.	
			73.0-75.2 Blocky core.	19193	80.50	82.00	1.50	142.	1063.	2189.	4.3	17.	160.	
			78.0-78.3 Highly broken core.	19194	82.00	83.50	1.50	352.	1323.	5106.	12.4	19.	860.	
			Quartz veining is usually single to double stage.	19195	83.50	85.00	1.50	288.	2013.	3088.	29.9	106.	850.	
			78.3-91.2 Distinct increase in quartz veining to 1 per 5cm with double phase common. Traces of sphalerite and galena are seen within the quartz.	19196	85.00	86.50	1.50	277.	667.	1068.	27.1	223.	800.	
			Puchite is also seen, but generally rare. Fragments also increase in size and frequency becoming a fragmental by 81.0m.	19197	86.50	88.00	1.50	379.	1743.	4214.	23.9	249.	780.	
			79.0-79.6 Quartz flood zone.	19198	88.00	89.50	1.50	369.	1240.	1997.	25.3	113.	660.	
			81.0-85.0 Zone of maximum quartz	19199	89.50	91.00	1.50	442.	2137.	2214.	40.7	133.	1240.	
				19200	91.00	92.50	1.50	132.	475.	602.	6.0	64.	510.	
				19201	92.50	94.00	1.50	132.	277.	780.	8.0	97.	420.	
				19202	94.00	95.50	1.50	216.	873.	2193.	15.6	264.	760.	
				19203	95.50	96.70	1.20	313.	2537.	5541.	41.9	154.	1570.	

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QDET
HOLE No. : NQ90-4

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
						66.10	71.90	.5	0	0	3	0
86.50	86.51	63				71.90	90.00	3	1	TR	3	0
96.69	96.70			51	51	90.00	90.50	3	1	TR	3	1
						90.50	92.80	1	0	0	3	2
						92.80	96.70	7	TR	TR	3	0

Hole No: NQ90-4

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-4

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS
FROM	TO				FROM	TO							Au ppb
			vienlets at random directions (double stage) with approximately 1% sphalerite. 85.0-85.3 Quartz flood zone. 85.3-86.6 Zone of maximum fragments. 89.0-90.5 Quartz flood zone. 90.5-91.2 Blocky core, flooding, veining and mineralization dies out, and biotite increases. 92.8-96.7 Pyrite increases to 7%. Contact with below in fault gouge over 20cm at 51deg CA.										
96.70	112.70	5B/8	ANDESITE DYKE (or TUFF?)	19204	96.70	98.20	1.50	127.	114.	569.	1.1	14.	23.
			96.7 to 112.7 - Recovery is 90%	19205	104.30	105.80	1.50	122.	615.	647.	1.7	8.	10.
			Fine grained, dark green matrix with white feldspar phenocrysts and angular fragments to 1mm diameter (20%) and dark green irregular shaped mafics to .5mm (<5%). Finer grained inter-unit contact or bed at 37deg CA, at 102.0. Epidote alteration along fractures is common. Pyrite is very minor and finely disseminated. Unit is weakly to strongly magnetic.	19206	109.70	111.70	2.00	228.	60.	909.	0.4	2.	11.
			99.7-100.3 Blocky Core. 104.8-106.4 Blocky core, limonite on fractures. 102.0 Becomes finer grained, feldspar phenos are less obvious. 104.0-106.1 Highly broken to very blocky core, limonite on fractures. 108.4 2 cm quartz vein. Rock uphole is highly silicified, rock below is weakly silicified.										
			108.0-109.2 Blocky core; fracture plane @ 5 deg CA with clay gouge. 109.2-109.8 Minor biotite development.										
110.80	111.20	Fgx	110.1-112.7 Blocky core. Fault Gouge Fault gouge and carbonate infilling	19207	111.70	112.70	1.00	350.	82.	670.	1.0	2.	41.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-4

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GEOTECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
					96.70	108.40	1	0	0	3	0
					108.40	112.70	1	0	0	1	0
112.69	112.70			45							
117.50	117.51	72			112.70	113.80	5	2	1	3	0
124.00	124.01	64			113.80	127.90	3	0	0	1	2

Hole No: NQ90-4

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3

127.90	128.20	5	3	1	3	0
128.20	133.20	3	0	0	1	2

Hole No: NQ90-4

FEBRUARY 18, 1991

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SURVEY RECORD
QUET PROJECT
DOWNHOLE DIP TESTS

DRILL HOLE NUMBER : NQ90-5

GRID SYSTEM :

FOOTAGE	TEST TYPE	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION
0.00		360.00	-60.00	29971.000	30809.000	970.000
44.80	A	360.00	-59.00	29993.737	30809.000	931.400
115.80	A	360.00	-57.00	30031.360	30809.000	871.191
187.80	A	360.00	-57.00	30070.574	30809.000	810.807

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PAGE : 1

PROPERTY : QUET
HOLE No. : NQ90-5
Grid System :
Collar Eastings : 30809.000
Collar Northings : 29971.000
Collar Elevations : 970.000
Collar Bearing : 360.00
Grid Baseline : 90.00

Collar Inclination : -60.00
Grid Bearing : 360.00
Final Depth : 215.20
Claim No. : QUET 1&10

Logged by : ROB G WILSON
Date : SEPTEMBER 30, 1990 - OCTOBER 5, 1990
Downhole Survey : ACID
Drilled By : PARAGON DRILLING
Core Size : NQ

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS Au ppb
FROM	TO				FROM	TO							
0.00	2.70	C/I	CASING No core recovery - overburden.										
2.70	55.10	3	SILICEOUS ASH TUFF 2.7 to 55.1 - Recovery is 95% Medium blue-grey, very fine grained, and frequently bleached white near fracture surfaces (which are limonitic). <5% feldspar fragments which occur as sub- angular to subrounded and partly resorbed (1 to 1 mm diameter ghosted blobs. The rock is highly silicified throughout and is bleached white and rusty surrounding (1 cm to 1m) hairline to open space fractures. Bedding appears massive with a distinct but non-continuous developed fabric seen as aligned feldspar fragments and very slight light to dark banding. Quartz carbonate veinlets are seen only occasionally. Pyrite is seen as disseminations in very minor quantities and locally to 3% over <0.5 m lengths. A dark, sub-metallic, fine grained mineral (sphalerite?) is seen at 5.2 - 5.5 along irregular veinlets with associated increase in pyrite. Rare ghosts of larger fragments are seen, individually as silica healed fracture crackle breccias as at 15.9 - 16.1.	19215 19216 19217 19218 19219 19220	2.70 4.00 4.00 5.50 5.50 7.00 11.00 12.50 15.80 17.30 21.40 22.90	1.30 1.50 1.50 1.50 1.50	21. 17. 11. 16. 24. 31.	100. 145. 186. 224. 200. 237.	28. 139. 19. 79. 69. 83.	7.1 7.9 14.6 5.6 12.2 15.2	33. 32. 80. 71. 192. 215.	140. 130. 160. 110. 170. 130.	
23.50	26.00	5B	ANDESITE DYKE Dark green, fine grained matrix with 10%, 1 mm diameter feldspar phenocrysts.	19221 19222 19223	28.00 29.50 36.00 37.50 37.50 39.00	1.50 1.50 1.50	15. 29. 42.	55. 58. 27.	25. 171. 153.	6.8 6.5 5.0	102. 265. 154.	150. 87. 74.	

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-5
Grid System :
Collar Eastings : 30809.000
Collar Northings : 29971.000
Collar Elevations : 970.000
Collar Bearing : 360.00
Grid Baseline : 90.00

Collar Inclination : -60.00
Grid Bearing : 360.00
Final Depth : 215.20
Claim No. : QUET 1&10

PAGE : 1

Logged by : ROB G WILSON
Date : SEPTEMBER 30,1990 - OCTOBER 5,1990
Downhole Survey : ACID
Drilled By : PARAGON DRILLING
Core Size : NQ

GEO TECHNICAL SAMPLES

FROM TO Bedding Fabric Faults Contact
deg deg deg deg

GEOCHEMICAL SAMPLES

FROM TO Py Sp Gs Sil Bi
% % % 0 to 3 0 to 3

8.00 8.01 38
21.50 21.51 28

2.70 5.20 .5 0 0 3 0
5.20 5.50 3 0 0 3 0
5.50 55.10 .5 0 0 3 0

25.99 26.00
44.70 44.71 29

60

Hole No: NQ90-5

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-5

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
45.40	45.41				10							
48.89	48.90				15							
55.10	55.11				23	55.10	70.50	3	0	0	3	0
76.40	76.41	36				70.50	72.00	5	TR	0	3	0
85.00	85.01	15				72.00	74.00	3	0	0	3	0
						74.00	74.60	5	0	0	3	0
						74.60	78.90	3	0	0	3	0
						78.90	90.40	7	0	0	3	0

Hole No: NQ90-5

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : RQ90-5

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	ASSAYS	
FROM	TO				FROM	TO						As ppm	Au ppb
			bleached.										
			78.9 - 90.4 Pyrite becomes common, occurring in veins to 1 cm and veinlets and as short networks.										
90.40	91.30	5B	ANDESITE DYKE	19241	90.40	91.30	0.90	60.	5.	118.	0.7	25.	7.
			As 45.4 - 48.9.	19242	91.30	92.90	1.60	49.	2.	57.	0.9	35.	8.
				19243	92.90	95.10	2.20	10.	12.	93.	0.5	52.	49.
95.10	96.30	5B	ANDESITE DYKE	19244	95.10	96.30	1.20	102.	18.	141.	1.2	24.	18.
			Both units are weakly to non-magnetic. Hornblende phenocrysts are common.										
96.30	102.70		QUARTZ FLOODED	19245	96.30	98.00	1.70	44.	22.	173.	2.1	28.	29.
			Rock is quartz flooded, with a trace of sphalerite at 101.4 with quartz and epidote. Pink-brown alteration (K-spar?) in quartz at 98.7 m. Minor dark brown (biotite?) alteration 101.4 - 102.0.	19246	98.00	99.50	1.50	27.	32.	149.	2.4	29.	57.
				19247	99.50	101.00	1.50	79.	162.	361.	4.2	80.	82.
				19248	101.00	102.50	1.50	72.	77.	671.	2.3	26.	47.
				19249	102.50	104.00	1.50	29.	19.	1047.	2.3	25.	23.
				19250	104.00	105.50	1.50	16.	11.	87.	1.4	16.	8.
			107.6 - 115.2 Fragments and lapilli become more apparent with the fragments often a brown (biotite?) alteration.	19251	105.50	107.00	1.50	10.	9.	69.	0.8	9.	16.
				19252	107.00	108.50	1.50	8.	14.	117.	0.8	18.	1.
				19253	108.50	110.00	1.50	25.	19.	305.	0.5	16.	10.
				19254	110.00	111.50	1.50	33.	7.	320.	0.6	11.	25.
				19255	111.50	113.00	1.50	35.	71.	1810.	3.2	13.	62.
				19256	113.00	114.50	1.50	29.	45.	78.	2.2	17.	48.
				19257	114.50	115.20	0.70	38.	51.	117.	2.0	16.	31.
115.20	115.80	5B	ANDESITE DYKE	19258	115.20	115.80	0.60	124.	16.	205.	1.1	8.	41.
			As 45.4 - 48.9. Slightly magnetic. Top contact sharp @ 33 deg. C.A. Bottom contact unknown in highly broken core.										
115.80	123.00	4	MODULAR (?) TUFF	19259	115.80	117.50	1.70	140.	13.	169.	1.0	17.	20.
			115.8 to 123.0 - Recovery is 95%	19260	117.50	119.00	1.50	51.	16.	165.	0.7	25.	17.
			Mottled purple-brown (biotite?) matrix with rounded light green fragments (modules?) to 1 cm diameter with in- distinct (resorbed?) borders. Occasional beds of angular lapilli are also seen. Rock is highly silicified and has finely disseminated pyrite throughout. Core is moderately broken to 119.2. This unit may be a thinner related unit to that in 90-2.	19261	119.00	120.50	1.50	157.	670.	857.	3.8	24.	23.
				19262	120.50	121.40	0.90	145.	268.	2375.	2.3	16.	30.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-5

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GEOTECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
90.40	90.41				47	90.40	91.30	.5	0	0	1	0
91.29	91.30				72	91.30	95.10	3	0	0	3	0
93.50	93.51				28							
95.10	95.11				52	95.10	96.30	.5	0	0	1	0
96.29	96.30				56							
107.80	107.81		53			96.30	101.30	3	0	0	3	0
111.60	111.61		68			101.30	101.40	3	TR	0	3	0
						101.40	102.00	3	0	0	3	0
						102.00	107.60	3	0	0	3	0
						107.60	115.20	3	0	0	3	2
115.20	115.21				23							
						115.80	121.40	5	0	0	3	2
121.40	121.41				43	121.40	123.00	1	0	0	2	0

Hole No: NQ90-5

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-5

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	ASSAYS					
FROM	TO				FROM	TO		Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb
121.40	123.00	5B	ANDESITE DYKE As 45.4 - 48.9. Slightly magnetic. Top contact sharp @ 43 deg. Bottom contact sharp @ 46 deg. C.A.	19263	121.40	123.00	1.60	63.	31.	232.	0.6	7.	11.
123.00	130.80	3b	SILICEOUS (LAPILLI) TUFF 123.0 to 130.8 - Recovery is 100% As 55.1 - 115.8. Sphalerite is common in quartz flood and veinlet zones. Quartz veinlets are single phase and occur 1 in 10 cm, average width 0.5 cm. Rock is highly silicified. Finely disseminated pyrite occurs throughout but is not very concentrated in quartz veinlets. This rock is not a fragmental but does have lapilli fragments. Bedding is massive. Contact with below sharp @ 60 deg. C.A.	19264 19265 19266 19267 19268 19269	123.00 124.50 126.00 127.50 129.00 130.70	124.50 126.00 127.50 129.00 130.70 132.20	1.50 1.50 1.50 1.50 1.70 1.50	720. 995. 607. 291. 149. 48.	590. 940. 487. 124. 71. 14.	6588. 2031. 21261. 2395. 3195. 187.	5.2 7.6 5.9 3.2 2.1 0.5	78. 147. 61. 89. 73. 4.	230. 320. 220. 290. 230. 44.
130.80	157.50	4	NODULAR TUFF 130.8 to 157.5 - Recovery is 95% As 115.8 - 123.0. Purple-brown fine grained matrix with light green-grey 2 to 20 mm subrounded to subangular nodules (average 10 mm diameter) which consists 10% of rock. The matrix is fine grained brown biotite? and the nodules are a fine grained tuff. The unit is moderately silicified, the change from highly silicified occurring at the contact. Pyrite is finely disseminated throughout and quartz veins are generally lacking. No sphalerite or galena is seen.	19270	132.20	133.70	1.50	54.	13.	205.	1.0	3.	27.
133.70	136.00	5B	ANDESITE DYKE As 45.4 - 48.7. Slightly magnetic. Top contacts sharp @ 44 deg. C.A., bottom contact sharp at 37 deg. C.A. 141.7 - 142.0. Blocky core. 146.9. 20 cm ground core. 145.4 - 157.7. Nodules become larger	19271 19272 19273 19274 19275 19276 19277	133.70 136.00 138.00 140.00 146.00 152.00 156.00	136.00 138.00 140.00 142.00 148.00 154.00 157.50	2.30 2.00 2.00 2.00 2.00 2.00 1.50	87. 71. 161. 54. 49. 99. 38.	35. 21. 58. 5. 5. 49. 13.	128. 274. 706. 178. 156. 266. 392.	0.5 0.6 1.0 0.4 0.6 1.0 0.4	2. 6. 15. 17. 4. 9. 10.	10. 4. 16. 47. 17. 20. 14.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-5

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
123.00	123.01				46	123.00	130.70	3	1	0	3	0
130.79	130.80				60	130.70	133.70	5	0	0	2	0
133.70	133.71				44	133.70	136.00	1	0	0	2	0
135.99	136.00				37	136.00	157.00	5	0	0	2	3
147.00	147.01				50							
147.30	147.31				64							
151.00	151.01				53							
156.50	156.51				52							

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DIAMOND DRILL LOG

PROPERTY : QUET
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INTERVAL (m) FROM TO	MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL (m) FROM TO	SAMPLE WIDTH	ASSAYS						
						Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb	
		(1 cm average diameter) and more numerous 50% of rock. Nodules are (more biotite matrix) at times rimmed by a white-grey fine grained alteration mineral. Pyrite is mainly within the matrix with minor amounts in the framework. The nodules are generally massive bedded but occasionally are aligned or have extra matrix to define bedding. Contact with below is gradational over 1 m with nodules becoming less distinct and grey lapilli tuff becoming more preva- lent. Contact is arbitrarily set where hardness increases and nodules are no longer present.										
157.50	182.70	3b	SILICEOUS LAPILLI TUFF	19278	157.50 159.00	1.50	100.	28.	729.	0.9	26.	44.
			157.5 to 182.7 - Recovery is 100%	19279	159.00 160.50	1.50	82.	85.	261.	0.9	28.	23.
			Medium grey, coarse grained (1-3 mm)	19280	160.50 162.00	1.50	122.	69.	546.	1.3	28.	36.
			felsic lapilli in a darker grey, fine	19281	162.00 163.50	1.50	638.	257.	1531.	4.6	34.	250.
			grained matrix. Rock is very hard,	19282	163.50 165.00	1.50	1655.	3964.	18318.	22.1	58.	870.
			(silicified) and the lapilli are at times	19283	165.00 166.50	1.50	204.	166.	2308.	1.7	69.	99.
			chalky white (argillic alteration) to	19284	166.50 168.00	1.50	798.	484.	5255.	6.4	56.	410.
			162.0 m.	19285	168.00 169.50	1.50	134.	105.	665.	1.8	63.	140.
			Pyrite is finely disseminated throughout	19286	169.50 171.00	1.50	1133.	279.	3433.	8.2	74.	630.
			and quartz veins and flood zones become	19287	171.00 172.50	1.50	696.	185.	714.	4.2	80.	250.
			more common (with sphalerite and galena)	19288	172.50 174.00	1.50	866.	206.	1122.	4.2	48.	200.
			below 163.1 m.	19289	174.00 175.50	1.50	1178.	158.	3089.	6.2	36.	240.
			Bedding is generally massive, and biotite? alteration drops off to nil. Tuff fragments become more ghosted below 163.0 m. Core is lightly broken to competent. Quartz veins and veinlets range from 1 mm to 5 cm (average 1 cm) and frequently contain sphalerite +/- galena +/- chalco- pyrite. Veining is single to minor double stage at 1 per 5 cm and are irregular to 50 deg. C.A.									
175.50	177.00	5B	ANDESITE DYKE	19290	175.50 177.00	1.50	245.	73.	512.	0.8	3.	29.
			Dark green, fine grained, few pheno-	19291	177.00 178.50	1.50	539.	432.	3190.	2.6	42.	160.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-5

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
168.50	168.51	65				157.50	163.10	7	0	0	3	0
						163.10	175.50	5	1	TR	3	0
175.50	175.51			38		175.50	177.00	1	0	0	2	0
176.99	177.00			25		177.00	179.10	5	1	0	3	0
179.10	179.11			53		179.10	180.00	1	0	0	2	0
179.99	180.00			52		180.00	181.00	5	1	0	3	0
181.00	181.01			57		181.00	182.70	1	0	0	2	0
181.69	182.70			48								

Hole No: NQ90-5

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PROPERTY : QUET
HOLE No. : NQ90-5

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS	
FROM	TO				FROM	TO							Au ppb	Pb ppb
			crysts, strongly magnetic. Top and bottom contacts sharp at 38 deg. and 25 deg. C.A.	19292	178.50	179.10	0.60	199.	46.	529.	0.6	16.	46.	
179.10	180.00	5B	ANDESITE DYKE As 175.5 - 177.0.	19293	179.10	180.00	0.90	192.	44.	249.	0.8	5.	47.	
181.00	182.70	5B	ANDESITE DYKE As 175.5 - 177.0. Contact with below is somewhat gradational but is taken to be at the bottom contact of the andesite dyke.	19294 19295	180.00 181.00	181.00 182.70	1.00 1.70	409. 204.	53. 56.	1268. 330.	2.0 0.6	6. 3.	180. 48.	
182.70	215.20	4	NODULAR TUFF 182.7 to 215.2 - Recovery is 95% Purple-brown fine grained (biotite?) matrix with 20% subangular light grey tuffaceous fragments (fine grained). Nodules have fuzzy, partly resorbed edges and are often irregular shaped. They range in size from 3 mm to 15 mm and average 10 mm in diameter. The nodules appear to have been a fine grained felsic tuff. Bedding is massive but in places the nodules end with a bedding plane. The rock is moderately to intensely silicified (variably) and has been cut by common quartz veinlets 1 mm to 1 cm in width, often carrying sphalerite +/- galena. Quartz veins are single phase and occur 1 in 30 cm. The sphalerite is confined to the quartz veinlets and quartz flood zones and averages <1% over unit. The unit is cut by several andesitic dykes and constitutes the lower mafic unit surface mapped as purple lapilli tuff.	19296 19297 19298 19299	182.70 184.00 185.50 187.00	184.00 185.50 187.00 187.70	1.30 1.50 1.50 0.70	242. 233. 210. 537.	38. 33. 867. 160.	1987. 1851. 2189. 843.	1.1 0.9 3.2 3.1	5. 12. 21. 25.	54. 86. 260. 270.	
187.70	192.40	5B	ANDESITE DYKE Dark green, fine grained with 20% ghosted feldspar phenocrysts and < 5% visible mafics. In places the phenos are slightly angular (mafic tuff?), and reach	19300 19301 19302	192.40 194.00 195.50	194.00 195.50 196.10	1.60 1.50 0.60	373. 646. 593.	136. 333. 2679.	889. 2739. 3231.	1.9 3.3 4.9	25. 25. 26.	330. 320. 300.	

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-5

PAGE : 6

GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
						182.70	187.70	5	TR	0	2	2
187.70	187.71				61	187.70	192.40	1	0	0	2	0
192.39	192.40				51	192.40	196.10	5	.5	0	2	2
195.00	195.01	54										
196.01	196.11				57							

Hole No: NQ90-5

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-5

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GEOTECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
196.69	196.70			60	196.10	196.70	1	0	0	2	0
199.00	199.01	43			196.70	199.80	3	1	TR	2	2
199.80	199.81			90	199.80	200.60	0	0	0	3	0
200.59	200.60			90	200.60	208.50	2	.5	0	2	2
202.70	202.71	54			208.50	208.60	2	3	1	2	3
207.70	207.71	38			208.60	215.20	2	0	0	2	3
208.50	208.51	43									
213.00	213.01	55									

Hole No: NQ90-5

FEBRUARY 18, 1991

PAGE: 1

SURVEY RECORD
QUET PROJECT
DOWNHOLE DIP TESTS

DRILL HOLE NUMBER : NQ90-6

GRID SYSTEM :

FOOTAGE	TEST TYPE	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION
0.00			-90.00	30010.000	30884.000	950.000

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PAGE : 1

PROPERTY : QUET
HOLE No. : NQ90-6
Grid System :
Collar Eastings : 30884.000
Collar Northings : 30010.000
Collar Elevations : 950.000
Collar Bearing : 999.99
Grid Baseline : 90.00

Collar Inclination : -90.00
Grid Bearing : 360.00
Final Depth : 54.00
Claim No. : QUET 7&10

Logged by : R.G. WILSON
Date : OCTOBER 5, 1990 - OCTOBER 7, 1990
Downhole Survey : ACID
Drilled By : PARAGON DRILLING
Core Size : NQ

GEOTECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding	Fabric	Faults Contact	FROM	TO	Py	Sp	Gn	Sil	Bi
		deg	deg	deg			%	%	%	0 to 3	0 to 3
0.60	18.00				0.60	18.00	.5	0	0	2	0
18.00	18.01			38	18.00	25.00	1	0	0	3	0
18.01	25.00										
25.00	35.00				25.00	35.00	.5	0	0	3	0
35.00	37.00				35.00	54.00	.5	0	0	3	0

Hole No: NQ90-6

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-6

PAGE : 2

GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
37.00	37.01				33							
37.01	39.60											
39.60	39.61				31							
39.61	40.00											
40.00	40.01				25							
40.01	42.00											
42.00	42.01				10							
42.01	43.00											
43.00	43.01				34							
43.01	46.10											
46.10	46.11				35							
46.11	48.80											
48.80	48.81				22							
48.81	50.70											
50.70	50.71		56									
50.71	51.20											
51.20	51.21				42							
51.21	51.90											
51.90	51.91				52							
51.91	53.60											

Hole No: NQ90-6

HORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-6

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding	Fabric	Faults Contact	FROM	TO	Py	Sp	Gn	Sil	Bi
		deg	deg	deg deg			%	%	%	0 to 3	0 to 3

53.60	53.61			53							
53.61	54.00										

Hole No: NQ90-6

FEBRUARY 18, 1991

PAGE: 1

SURVEY RECORD
QUET PROJECT
DOWNHOLE DIP TESTS

DRILL HOLE NUMBER : NQ90-7

GRID SYSTEM :

FOOTAGE	TEST TYPE	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION
0.00			-90.00	30013.000	30889.000	950.000
194.20	A		-90.00	30013.000	30889.000	755.800

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PAGE : 1

PROPERTY : QUET
HOLE No. : NQ90-7
Grid System :
Collar Eastings : 30889.000
Collar Northings : 30013.000
Collar Elevations : 950.000
Collar Bearing : 999.99
Grid Baseline : 90.00

Collar Inclination : -90.00
Grid Bearing : 360.00
Final Depth : 194.20
Claim No. : QUET 1&10

Logged by : ROB G WILSON
Date : OCTOBER 7, 1990 - OCTOBER 10, 1990
Downhole Survey : ACID
Drilled By : PARAGON DRILLING
Core Size : NQ

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS
FROM	TO				FROM	TO							Au ppb
0.00	0.30	c/I	Casing, no core.										
0.30	3.00	5B	ANDESITE DYKE 0.3 to 3.0 - Recovery is 100% Dark green fine grained matrix with 1-2mm feldspar phenocrysts (< 10%) and dark green < 1mm mafics. Feldspars are saussuritized adjacent to common hairline fractures with enveloping epidote alteration. Massive, moderately to highly magnetic. Contact with below unknown between core runs in partly ground core.										
3.00	16.60	3c	SILICEOUS ASH TUFF 3.0 to 16.6 - Recovery is 95% Pale blue grey (greenish) very fine grained, appearing slightly banded with an indistinct 'porphyry' appearance of rare (< 1%) larger feldspar fragments (now ghosted). Rock is generally pervasively silicified with common, irregular (whispy) quartz veinlets. Frequent hairline fractures and the more major ones are limonitic to 35.0m. Pyrite is finely disseminated and along fractures and in quartz veinlets. Trace sphalerite seen at 10.6m. The banding gives the rock a distinct fabric. Unit is similar to that at the top of NQ90-2 though no distinct "fragments" have been seen. A crackle breccia as at 11.5m however gives the appearance of	19326	3.00	4.50	1.50	39.	11.	158.	2.4	40.	84.
				19327	4.50	6.00	1.50	41.	16.	129.	1.3	34.	28.
				19328	6.00	7.50	1.50	90.	26.	180.	2.0	32.	69.
				19329	7.50	9.00	1.50	51.	30.	362.	2.2	29.	57.
				19330	9.00	10.50	1.50	31.	17.	487.	3.0	30.	51.
				19331	10.50	12.00	1.50	23.	16.	210.	2.2	20.	22.
				19332	12.00	13.50	1.50	29.	16.	248.	1.5	19.	17.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QDET
HOLE No. : NQ90-7
Grid System :
Collar Eastings : 30889.000
Collar Northings : 30013.000
Collar Elevations : 950.000
Collar Bearing : 999.99
Grid Baseline : 90.00

Collar Inclination : -90.00
Grid Bearing : 360.00
Final Depth : 194.20
Claim No. : QDET 1&10

PAGE : 1

Logged by : ROB G WILSON
Date : OCTOBER 7, 1990 - OCTOBER 10, 1990
Downhole Survey : ACID
Drilled By : PARAGON DRILLING
Core Size : NQ

GEO TECHNICAL SAMPLES				GEOCHEMICAL SAMPLES								
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
						0.30	3.00	.5	0	0	2	0
6.00	6.01				58							
11.80	11.81				63							
13.30	13.31				49							
						3.00	16.60	1	0	0	3	0

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-7

PAGE : 2

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS	
FROM	TO				FROM	TO							Au ppb	
			fragments. Silica healed fracture at 3.6m. Manganese dendritic growth at 8.2m and 4.5m. Minor zone of fragments @ 13.2m.											
13.40	13.80	Qfz	QUARTZ FLOOD ZONE (no sphalerite seen).	19333	13.50	15.00	1.50	65.	14.	127.	0.7	26.	8.	
13.80	14.00	5B	ANDESITE DYKE As 0.3 - 3.0m. Top and bottom contacts sharp @ 69 and 55 deg. CA. Open space quartz veins @ 14.1 and 14.8 ($< 5\text{cm}$) Contact with below gradational over .6m, then sharp @ 34 deg. CA.	19334	15.00	16.60	1.60	52.	13.	101.	0.5	25.	6.	
16.60	21.90	5B	ANDESITE DYKE 16.6 to 21.9 - Recovery is 95% As 0.3 - 3.0m. 18.1 - 21.2 Limonitic fracture at 15 deg. CA. Blocky core. Contact with below sharp @ 49 deg. CA.											
21.90	52.00	3	SILICEOUS TUFF 21.9 to 52.0 - Recovery is 85% As 3.0 - 16.6, slightly coarser grained.	19335	21.90	24.00	2.10	48.	10.	103.	0.7	21.	12.	
23.50	24.10	5B	ANDESITE DYKE As 0.3 - 3.0m. Top contact in highly broken core, bottom contact sharp @ 53 deg. CA.	19336	24.00	26.00	2.00	30.	4.	51.	0.6	25.	10.	
			26.3 - 26.5 Highly broken core.	19337	26.00	28.00	2.00	20.	10.	49.	0.4	20.	6.	
			29.3 - 29.6 Blocky core.	19338	28.00	30.00	2.00	27.	5.	140.	0.4	26.	7.	
			30.6 - 31.6 Blocky core.	19339	30.00	32.00	2.00	17.	8.	87.	0.2	21.	1.	
32.00	34.00	Fzz	FAULT ZONE Highly broken limonitic rock to rubble core. Minor $< 10\text{cm}$ solid core is highly fractured.	19340	32.00	34.00	2.00	7.	8.	38.	0.1	16.	2.	
34.00	35.10	Fzz	FAULT ZONE	19341	34.00	35.10	1.10	40.	14.	145.	0.2	8.	4.	
35.10	37.20	5B	ANDESITE DYKE As .3 - 3.0m. Top contact unknown is fault gouge. Bottom contact sharp @ 59	19342	37.20	39.00	1.80	5.	9.	30.	0.2	18.	4.	

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-7

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
13.80	13.81				69							
13.99	14.00				55							
16.59	16.60				34							
21.89	21.90				49	16.60	22.90	1	0	0	3	0
						22.90	23.50	2	0	0	3	0
24.09	24.10				53	23.50	24.10	1	0	0	3	0
						24.10	35.10	1	0	0	3	0
37.19	37.20				59	35.10	37.20	1	0	0	3	0
						37.20	47.50	1	0	0	3	0

Hole No: NQ90-7

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : HQ90-7

PAGE : 3

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS Au ppb
FROM	TO				FROM	TO							
			deg. CA Below dyke, tuff is finer grained (ash) and is highly fractured with quartz - carbonate and some pyrite along hairline fractures. Core is highly broken and at times rumbled.										
39.00	41.10	Pgr	FAULT ZONE	19343	39.00	41.00	2.00	5.	6.	23.	0.1	18.	2.
			Core loss is evident within these fault gouge sections.	19344	41.00	43.00	2.00	16.	19.	52.	0.3	21.	4.
41.80	47.00	Pzr	FAULT ZONE	19345	43.00	45.00	2.00	22.	13.	60.	0.3	19.	6.
			Some fault gouge.	19346	45.00	47.00	2.00	12.	9.	63.	0.1	16.	4.
47.00	52.00	5B	ANDESITE DYKE	19347	47.00	47.50	0.50	11.	10.	60.	0.1	3.	3.
			As 0.3 - 3.0 and includes gradational rock between dyke and hosting tuff. Minor short sections of tuff. Very minor pyrite Top contact sharp @ 61 deg. CA. Bottom contact sharp @ 69 deg. CA.										
52.00	58.70	3b	SILICEOUS (LAPILLI) TUFF	19348	52.00	54.00	2.00	28.	14.	116.	0.3	6.	6.
			52.0 to 58.7 - Recovery is 95%	19349	54.00	56.00	2.00	15.	11.	73.	0.2	6.	3.
			Grey with a slight tinge of purple (Biotite alteration?), fine to lapilli tuff (very slightly fragmental) and in places is well fractured. Rock is well silicified but lacks quartz - carbonate veins or quartz flood zones. Some carbonate fractures filling is seen.	19350	56.00	58.00	2.00	9.	11.	60.	0.1	2.	2.
			Pyrite is the only sulphide seen and is finely disseminated but averages only about 1%.	19351	58.00	58.70	0.70	11.	11.	70.	0.2	2.	3.
			In places, as at 56.8 - 57.1 the lapilli reach 1cm in size and are angular to sub angular (not a fracture zone).										
58.70	67.10	5B	ANDISITE DYKE										
			58.7 to 67.1 - Recovery is 95%										
			As 0.3 - 3.0m. Top contact unknown is broken core. Bottom contact unknown in broken and ground core.										
67.10	74.90	3b	SILICEOUS (LAPILLI) TUFF	19352	67.10	68.30	1.20	16.	14.	70.	0.2	5.	2.

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-7

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
47.50	47.51				61	47.50	52.00	.5	0	0	3	0
51.99	52.00				69							
						52.00	58.70	1	0	0	3	1
						58.70	67.10	.5	0	0	3	0
						67.10	68.30	1	0	0	3	1
68.30	68.31				41	68.30	69.10	.5	0	0	3	0
69.09	69.10				35	69.10	72.10	1	0	0	3	1
72.10	72.11				69	72.10	74.90	.5	0	0	3	0

Hole No: NQ90-7

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-7

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INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	ASSAYS	
FROM	TO				FROM	TO							Au ppb	
68.30	69.10	5B	67.1 to 74.9 - Recovery is 95% As 52.0 - 58.7. Slightly more subtle purple (biotite?) alteration. ANDESITE DYKE As 0.3 - 3.0.	19353	69.10	70.60	1.50	58.	28.	149.	0.3	2.	8.	
			Top contact sharp @ 41 deg. CA. Bottom contact sharp @ 35 deg. CA. ANDESITE DYKE As 0.3 - 3.0.	19354	70.60	72.10	1.50	362.	84.	201.	2.4	7.	54.	
72.10	74.90	5B	Top contact sharp with 6cm of massive sulphide (pyrrhotite and pyrite) at 69 deg. CA. ANDESITE DYKE As 0.3 - 3.0.											
74.90	79.50	3ab	SILICEOUS LAPILLI (FRAGMENTAL) TUFF 74.9 to 79.5 - Recovery is 95% Grey green with slight hints of brown (weak biotite) alteration, lapilli tuff with 5% fragments ? 2 cm. (sub-angular). Well silicified. Fragments are of light grey fine grained tuff and green andesitic dyke. Minor fine grained disseminated pyrite. May correlate with the tuff in the 96 - 114m area of NQ90-2? Lacking quartz veins or flood zones. Contact with below over 30cm in an indistinct andesite dyke (gradational zone).	19355	74.90	76.50	1.60	12.	29.	85.	0.1	2.	4.	
				19356	76.50	78.00	1.50	23.	5.	92.	0.1	2.	4.	
				19357	78.00	79.50	1.50	71.	19.	94.	0.6	5.	24.	
79.50	84.60	4	NODULAR TUFF 79.5 to 84.6 - Recovery is 80% Fine grained, purply-brown matrix with 1-3mm diameter subrounded light grey nodules of fine grained tuff. This unit is the same as the fine grained phases of nodule tuff in holes NQ90-2, 3, 4, 5 but lacks the coarse (1cm) nodules as seen in the other holes. Only a trace of sulphide (pyrite) seen as fine disseminations.	19358	79.50	81.00	1.50	21.	12.	84.	0.1	7.	4.	
80.20	81.60	F2r	FAULT ZONE	19359	81.00	83.00	2.00	18.	18.	80.	0.2	9.	5.	

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-7

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GEOTECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
76.30	76.31		58			74.90	79.50	1	0	0	3	1
77.50	77.51		46									
						79.50	84.60	.5	0	0	3	2
						84.60	86.60	2	0	0	3	0

Hole No: NQ90-7

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-7

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GEOTECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
88.29	88.30			55	86.60	88.30	.5	0	0	3	0
					88.30	90.50	5	0	0	3	1
90.50	90.51			22	90.50	91.30	.5	0	0	3	0
91.29	91.30			32	91.30	94.90	5	0	0	2	1
94.90	94.91			46	94.90	95.40	.5	0	0	3	0
95.39	95.40			31	95.40	96.00	2	0	0	3	1
96.00	96.01			50	96.00	98.00	.5	0	0	3	0
97.99	98.00			07	98.00	101.40	1	0	0	3	1
					101.40	104.70	.5	0	0	2	0
					104.70	109.90	3	0	0	1	3

Hole No: NQ90-7

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-7

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GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding deg	Fabric deg	Faults deg	Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
109.90	109.91				30	109.90	110.80	.5	0	0	3	0
110.79	110.80				50	110.80	111.90	1	0	0	3	1
111.90	111.91				25	111.90	117.20	.5	0	0	3	0
117.19	117.20				49	117.20	118.50	2	0	0	3	1
118.59	118.60				15	118.50	118.60	1	TR	0	3	1
121.39	121.40				68	118.60	121.40	.5	0	0	2	0
						121.40	128.70	3	0	0	2	2
127.80	127.81				20							
128.70	129.00				22	128.70	134.00	.5	0	0	2	0
						134.00	136.80	3	0	0	2	2
						136.80	146.00	1	0	0	2	0
151.00	151.01	49				146.00	154.30	5	0	0	2	2
						154.30	165.50	5	TR	0	2	2

Hole No: NQ90-7

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : QUET
HOLE No. : NQ90-7

PAGE : 7

GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES						
FROM	TO	Bedding deg	Fabric deg	Faults Contact deg	FROM	TO	Py %	Sp %	Gn %	Sil 0 to 3	Bi 0 to 3
					165.50	166.30	.5	0	0	2	0
					166.30	167.90	2	0	0	2	2
					167.90	169.70	.5	0	0	1	0
					169.70	172.80	2	0	0	1	2
					172.80	176.80	2	0	0	1	3
176.80	176.81			35	176.80	178.10	.5	0	0	3	0
177.20	177.21	50									
178.09	178.10			12							
192.89	192.90			49	178.10	192.90	.5	0	0	1	0
193.10	193.11	65			192.90	194.20	1	0	0	1	3

Hole No: NQ90-7

NORANDA EXPLORATION CO. LTD.
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PAGE : 8

GEO TECHNICAL SAMPLES					GEOCHEMICAL SAMPLES							
FROM	TO	Bedding	Fabric	Faults	Contact	FROM	TO	Py	Sp	Gn	Sil	Bi
		deg	deg	deg	deg			%	%	%	0 to 3	0 to 3

Hole No: NQ90-7

APPENDIX IV
STATEMENT OF COSTS

STATEMENT OF COSTS - DRILLING

1.	<u>Wages:</u> September 1 - October 31, 1990 110 mandays @ \$275/day (avg)	\$ 30,203.00
2.	<u>Accommodations:</u> September 1 - October 31, 1990 118 mandays @ \$39.00	\$ 4,605.00
3.	<u>Trucks:</u> September 1 - October 31, 1990 1 truck @ 61 days @ \$40.57/day	\$ 2,475.00
4.	<u>Fuel:</u> September 1 - October 31, 1990 61 days @ \$16.28/day	\$ 993.08
5.	Equipment, Supplies and Radio: September 1 - October 31, 1990	\$ 603.32
6.	<u>Freight:</u> September 1 - October 31, 1990	\$ 588.55
7.	Analysis: September 1 - October 31, 1990	\$ 7,668.60
8.	<u>Contracts:</u>	
	a) Paragon Diamond Drilling September 5 - October 10, 1990 1251.9 m @ \$83.23/m	\$104,194.00
	b) Billenduke Contracting-Excavator September 1 - 11, 1990 130.5 hrs @ \$128/hr.	\$ 16,705.00
	c) Galli Holdings Ltd. Backhoe + Dump Truck September 15 - 24, 1990 95.7 hrs. @ \$65/hr.	\$ 6,220.00
	d) Nick Andrews - D-7 Cat September 11 - October 14/90 30.8 hrs. @ \$87/hr.	\$ 2,682.00

Contracts Con't.

e) J & H Trucking - Lowbed Hoe & Cat Transport September 1 - October 14/90	\$ 2,160.00
TOTAL:	<u><u>\$179,097.55</u></u>

ANALYSIS

Split Core Samples

\$4.00/sample analyzing by ICP for 30 elements *
\$3.50/sample analyzing by A.A. for Au
\$3.90/sample preparation plus handling & storage
\$1.11/sample data processing

613 samples @ \$12.51/sample \$7,668.60

* Analysis by 30 element ICP:

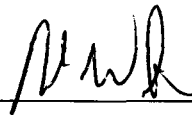
Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb,
Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K, W.

APPENDIX V
AUTHORS QUALIFICATIONS

AUTHORS QUALIFICATIONS

I Robert G. Wilson of the City of Vancouver, Province of British Columbia do hereby certify that:

1. I am a geologist residing at 3328 West 15th. Avenue, Vancouver, B.C.
2. I graduated from the University of British Columbia in 1976 with a BSc. degree in Geology.
3. I have worked in mineral exploration since 1973 and have practised my profession as a geologist since 1976.
4. I am presently a Project Geologist with Noranda Exploration Company, Limited.
5. I am a member of the Geological Association of Canada (Cordillera Division).

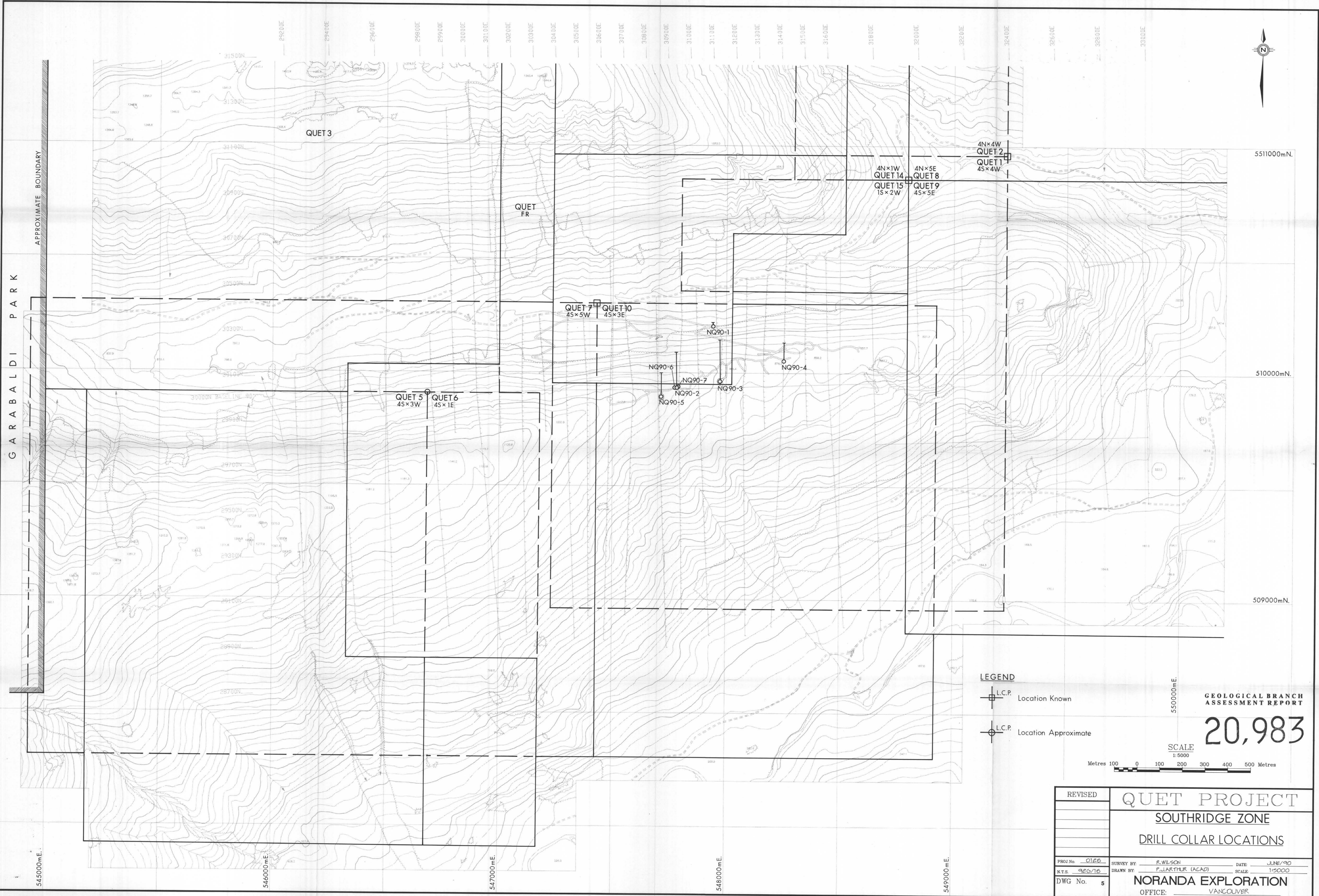


R.G. Wilson



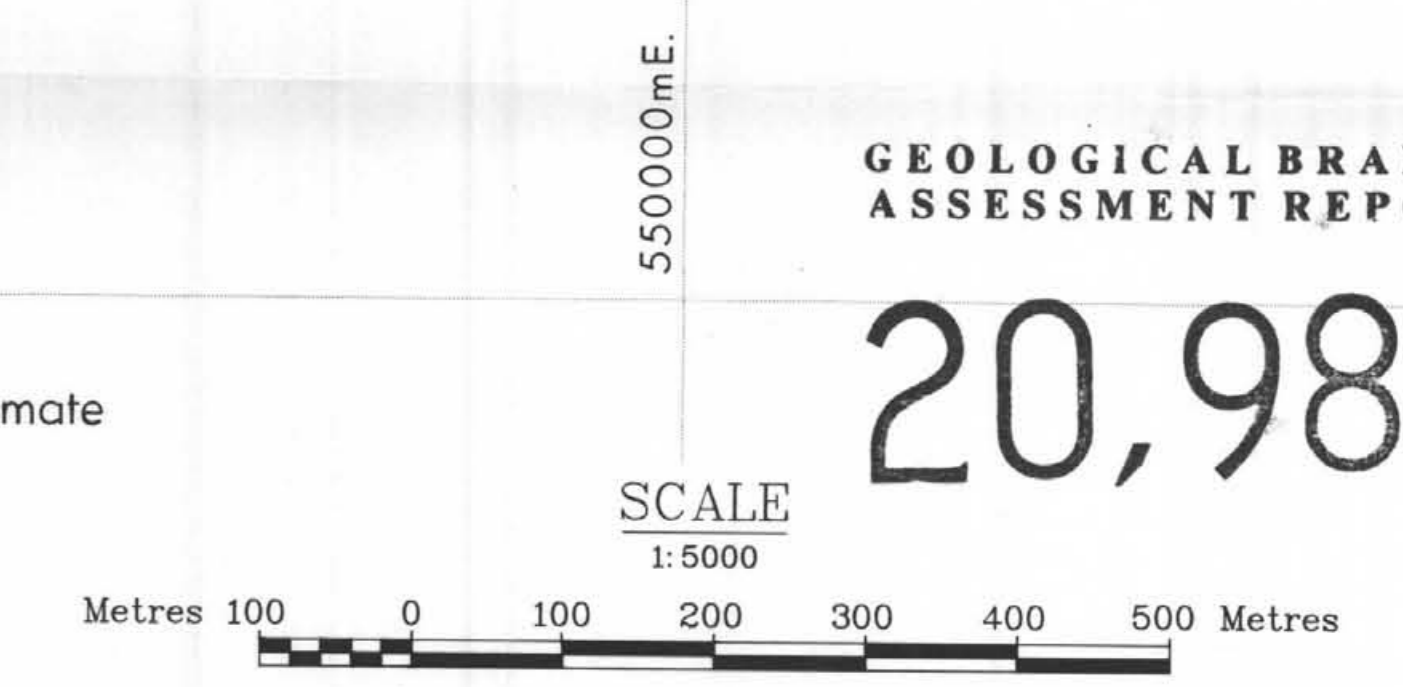
GARABALDI PARK

APPROXIMATE BOUNDARY



LEGEND

- L.C.P. Location Known
- L.C.P. Location Approximate



GEOLOGICAL BRANCH ASSESSMENT REPORT

REVISED	QUET PROJECT		
	SOUTHRIDGE ZONE		
	DRILL COLLAR LOCATIONS		
PROJ No. 0126	SURVEY BY: R. WILSON	DATE: JUNE/90	
N.T.S. 926/16	DRAWN BY: P. JARTHUR (ACAD)	SCALE: 1:5000	
DWG No. 5	NORANDA EXPLORATION		
	OFFICE: VANCOUVER		

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546000mE

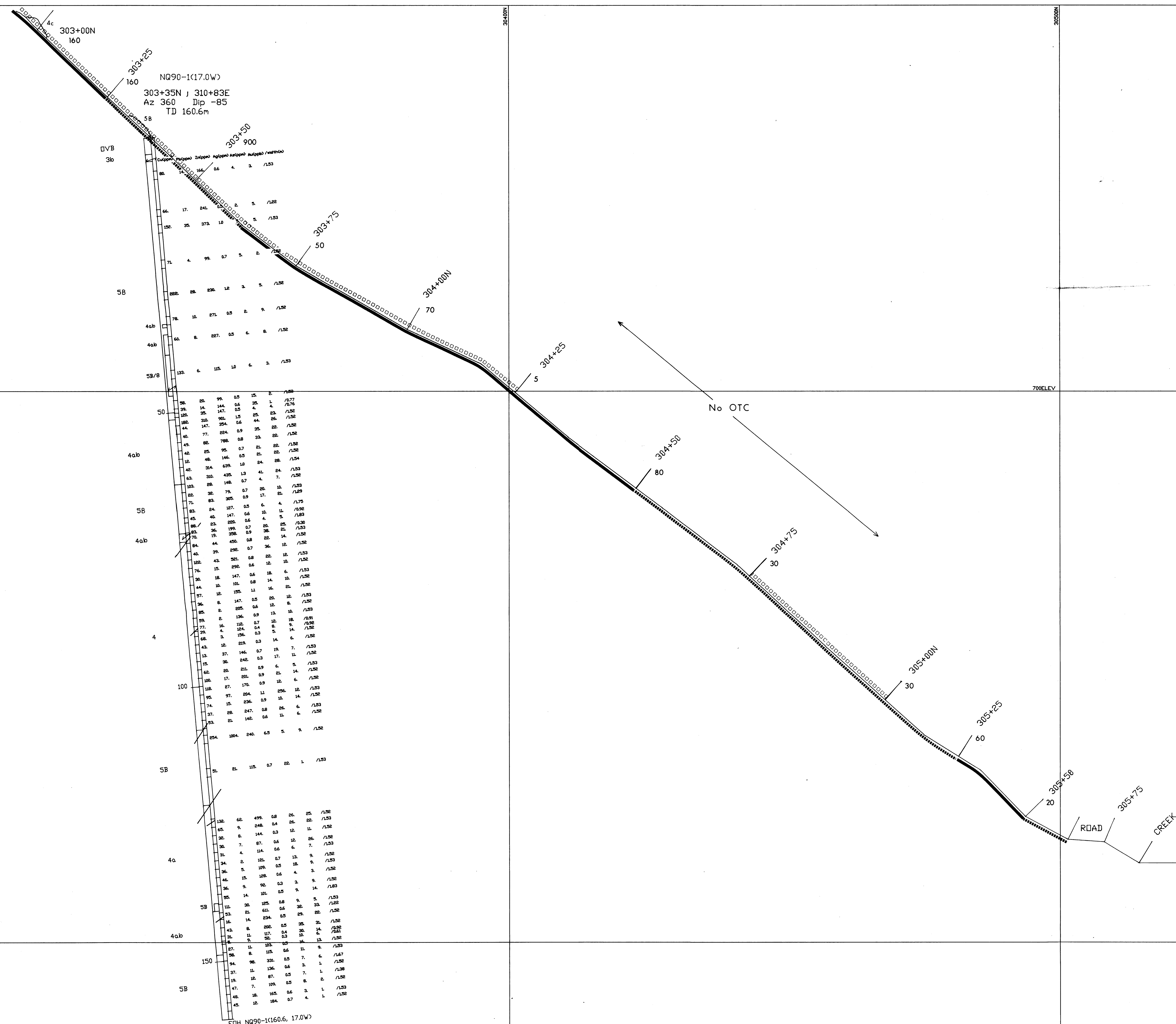
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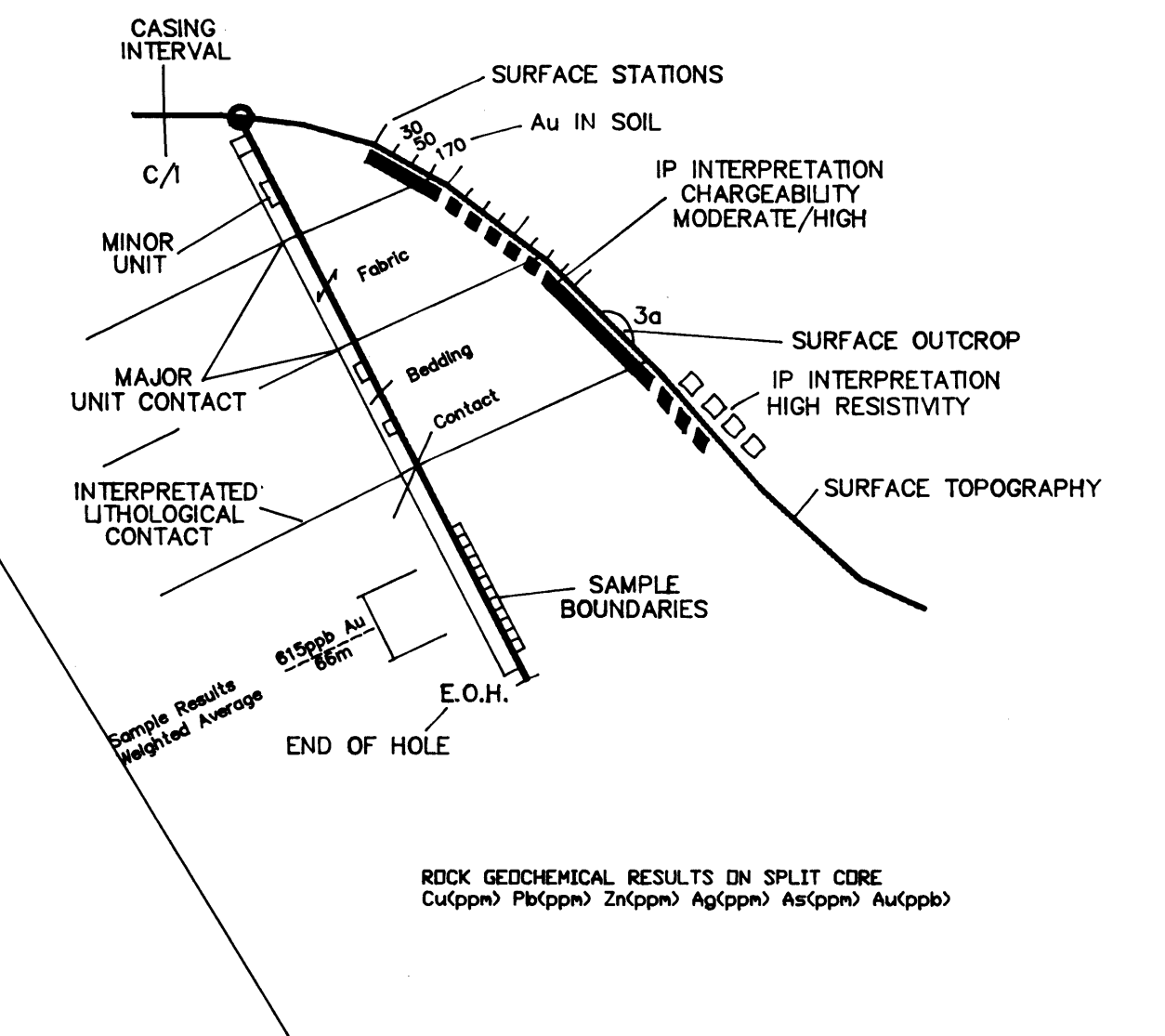
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- LEGEND**
- 8 ANDESITE TUFFS**
 - MEDIUM GREEN FINE GRAINED SILICIFIED MATRIX
 - ABUNDANT FELDSPAR TUFFACEOUS FRAGMENTS
 - 0-5% FINE GRAINED MAFIC TUFFACEOUS FRAGMENTS
 - 7 PALE GREEN TUFF**
 - PALE GREEN AND HIGHLY SILICEOUS
 - VERY FINE GRAINED WITH GHOST FELDSPAR TUFFACEOUS FRAGMENTS
 - MAY BE BANDED
 - NOT MAPPED IN SURFACE EXPOSURES
 - 6 BIOTITE - HORNBLende DIORITE**
 - UNALTERED, MEDIUM TO FINE GRAINED CONTAINS XENOLITHIC BLOCKS OF ANDESITE NEAR CONTACT.
 - 5 A - ANDESITE FLOWS / HIGH LEVEL INTRUSIVES**
 - MASSIVE UNDIFFERENTIATED MULTI-JOINTED
 - GREY BLACK TO GREENISH BLACK IN COLOUR.
 - VARIABLY PORPHYRITIC
 - EXTENSIVE CHLORITE ALTERATION, LESSER EPIDOTE ALTERATION
 - PYRITE ALMOST UNIVERSALLY PRESENT, 1-15% DISSEMINATED AND LOCALLY RICHER ON FRACTURE SURFACES.

B - ANDESITE DYKES

 - SAME LITHOLOGY AS "5A"
 - COMMONLY PORPHYRITIC - "FELDSPAR PORPHYRYS"
 - CONTACTS VARY BETWEEN DIFFUSE GRADATIONAL TO SHARP AND OFTEN SHEARED
 - CUTS ALL OTHER LITHOLOGIES (EXCEPT DIORITE)
 - MOST TRENDS NORTH-NORTHWEST
 - 4 DACITIC - ANDESITIC LAPILLI TUFFS**
 - COARSE DARK GREY TO PURPLISH IN COLOUR
 - NODULAR FORM COMMON IN DRILL CORE.
 - OFTEN LOOKED AS NOULAR TUFF
 - SECONDARY BIOTITE COMMON, GIVING WELL DEVELOPED FABRICS
 - GENERALLY SHOW PERVASIVE SILICIFICATION, PYRITIZATION AND LESSER K-FELDSPAR ALTERATION
 - 3 SILICEOUS FELSIC TUFFS**
 - FINE GRAINED, LIGHT BLUE - GREY IN COLOUR
 - MAY INCLUDE MINOR HIGHLY ALTERED SEDIMENTS
 - GENERALLY PERVASIVE SILICIFICATION, PYRITIZATION AND K-FELDSPAR ALTERATION
 - STRONGLY BLEACHED, LEACHED, WITH DISTINCTIVE YELLOW BROWN GOSSANOUS WEATHERED SKIN IN STRONGLY ALTERED AREAS
 - 2 SILICEOUS (SUGARY TEXTURED) FELSIC TUFFS**
 - VERY SILICEOUS, WHITE SUGARY TEXTURED
 - MINOR PYRITE, CHL
 - SERICITE COMMON
 - PINK Fe-OXIDE STAIN DISTINCTIVE ON WEATHERED SURFACE
 - GRADATIONAL WITH (3) IN SOME AREAS
 - 1 BOULDER CONGLOMERATE**
 - WELL ROUNDED GRANITIC BOULDERS FLOATING IN DARK CHLORITIZED ANDESITIC MATRIX
- TUFFACEOUS ROCK MODIFIERS**
- a) - FRAGMENTAL
 - b) - LAPILLI
 - c) - ASH
 - d) - CRYSTAL
- FAULTS**
- Fzx - FAULT ZONE
 - Fgx - FAULT GOUGE
 - Fbx - FAULT BRECCIA
- ALTERATION**
- Qzx - QUARTZ FLOOD ZONE
- SYMBOLS**



SECTION LOOKING WEST

GEOLOGICAL BRANCH ASSESSMENT REPORT

QUET PROJECT

SOUTHRIDGE ZONE

SECTION 311+00E

DDH NQ90-1 GEOLOGY AND GEOCHEMISTRY

NOVEMBER 28, 1990

DATE: NOVEMBER 28, 1990

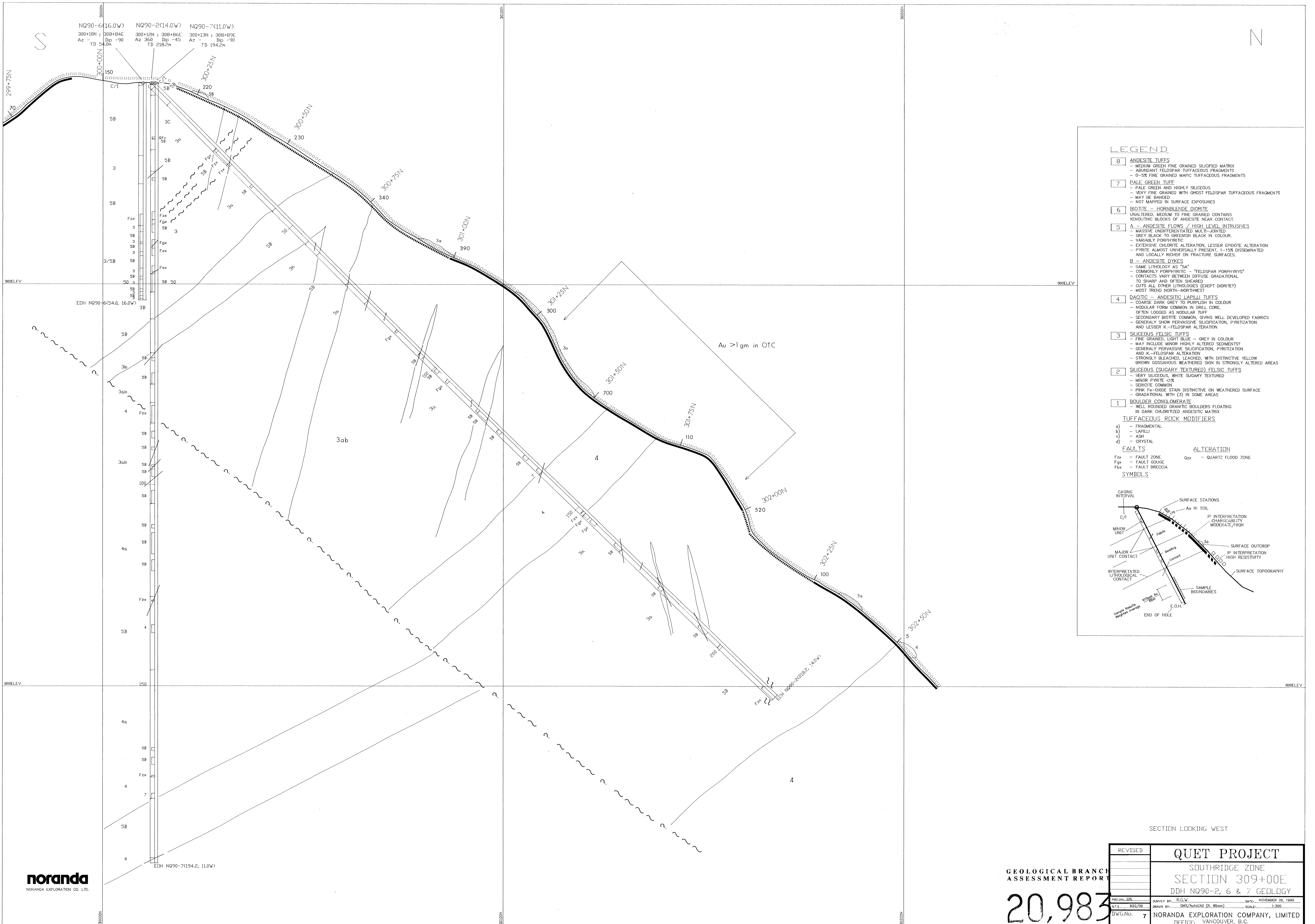
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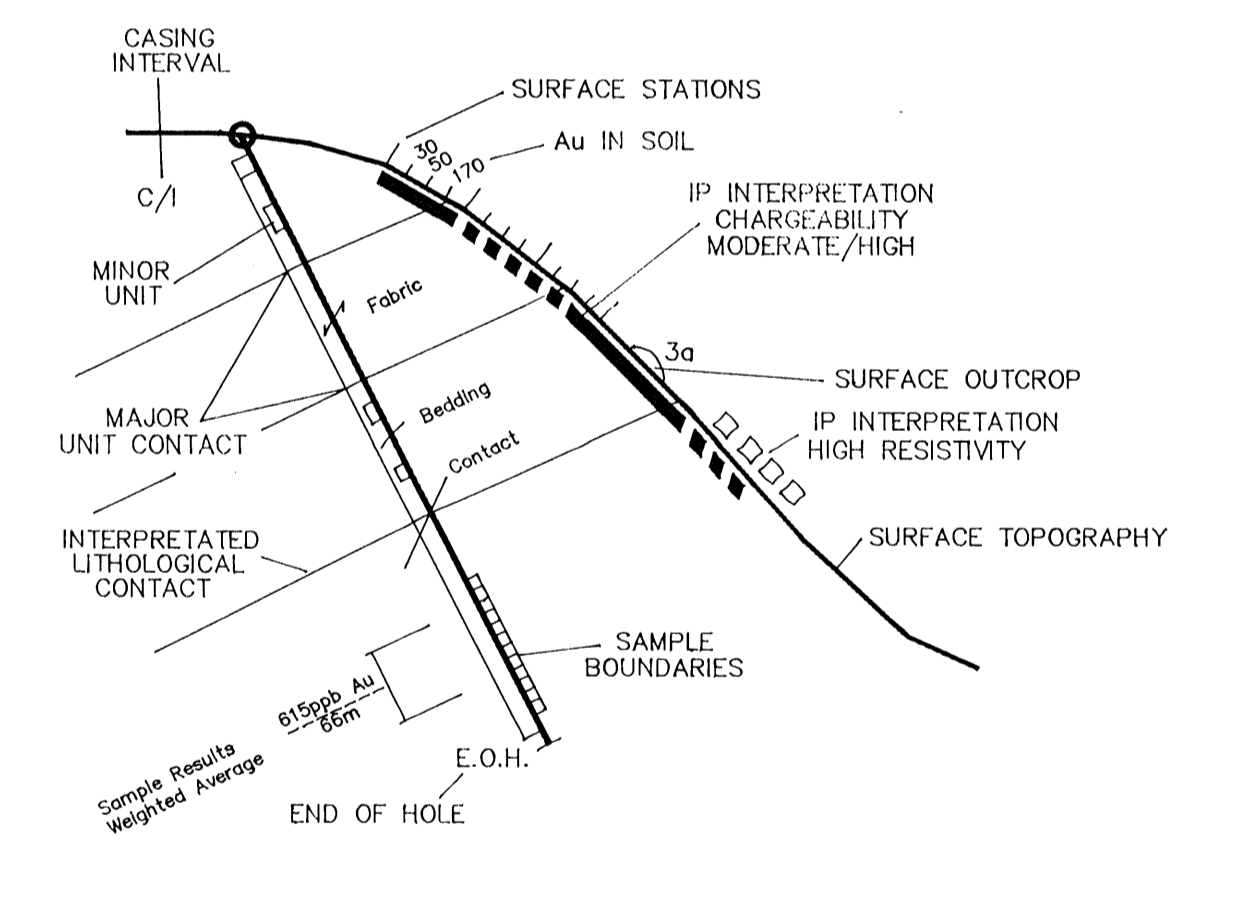
OFFICE: VANCOUVER, B.C.

noranda
NORANDA EXPLORATION CO. LTD.

20,983



- LEGEND**
- 8 ANDESITE TUFFS
 - MEDIUM GREEN FINE GRAINED SILICIFIED MATRIX
 - ABUNDANT FELDSPAR TUFFACEOUS FRAGMENTS
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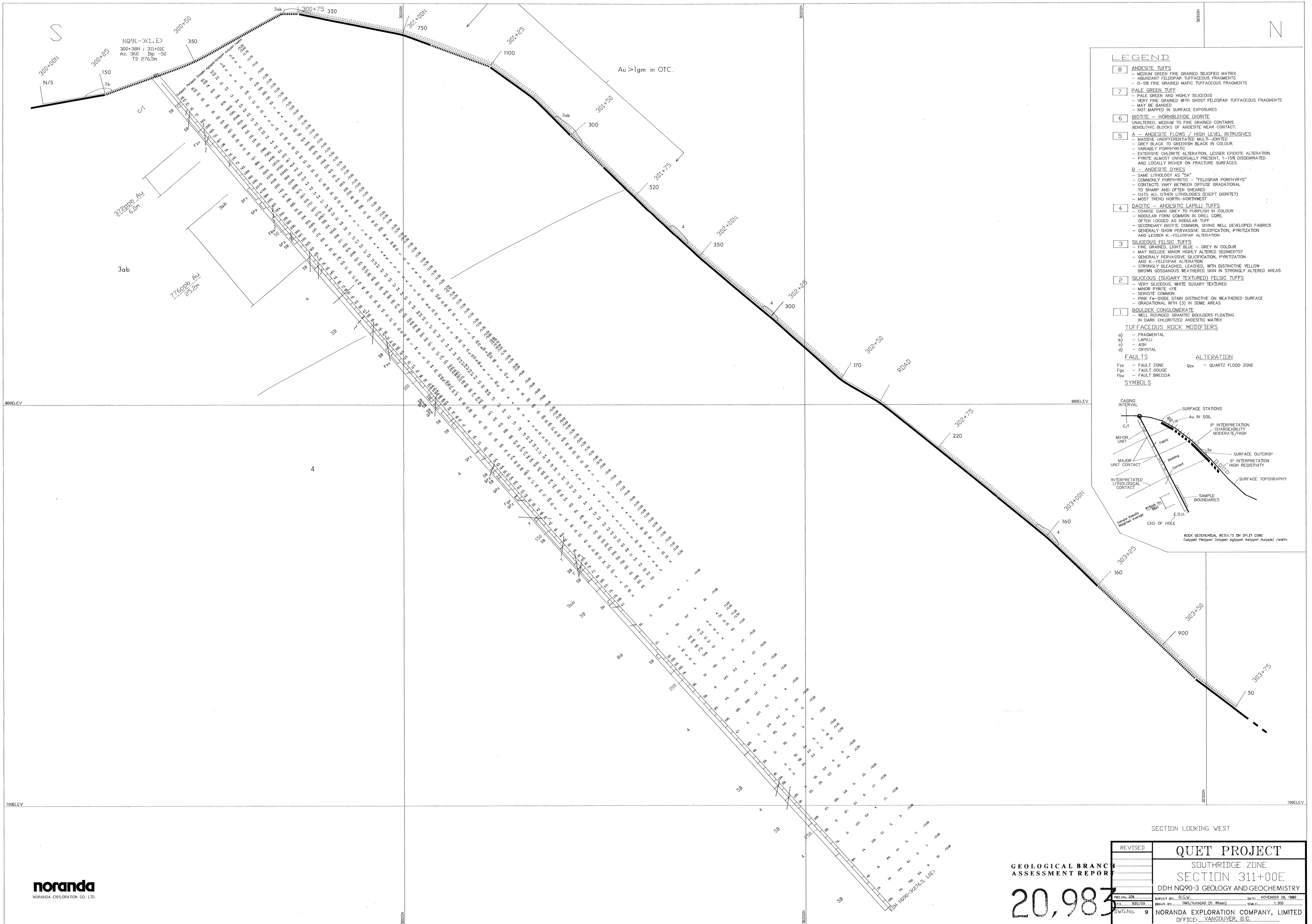
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NORANDA EXPLORATION CO. LTD.

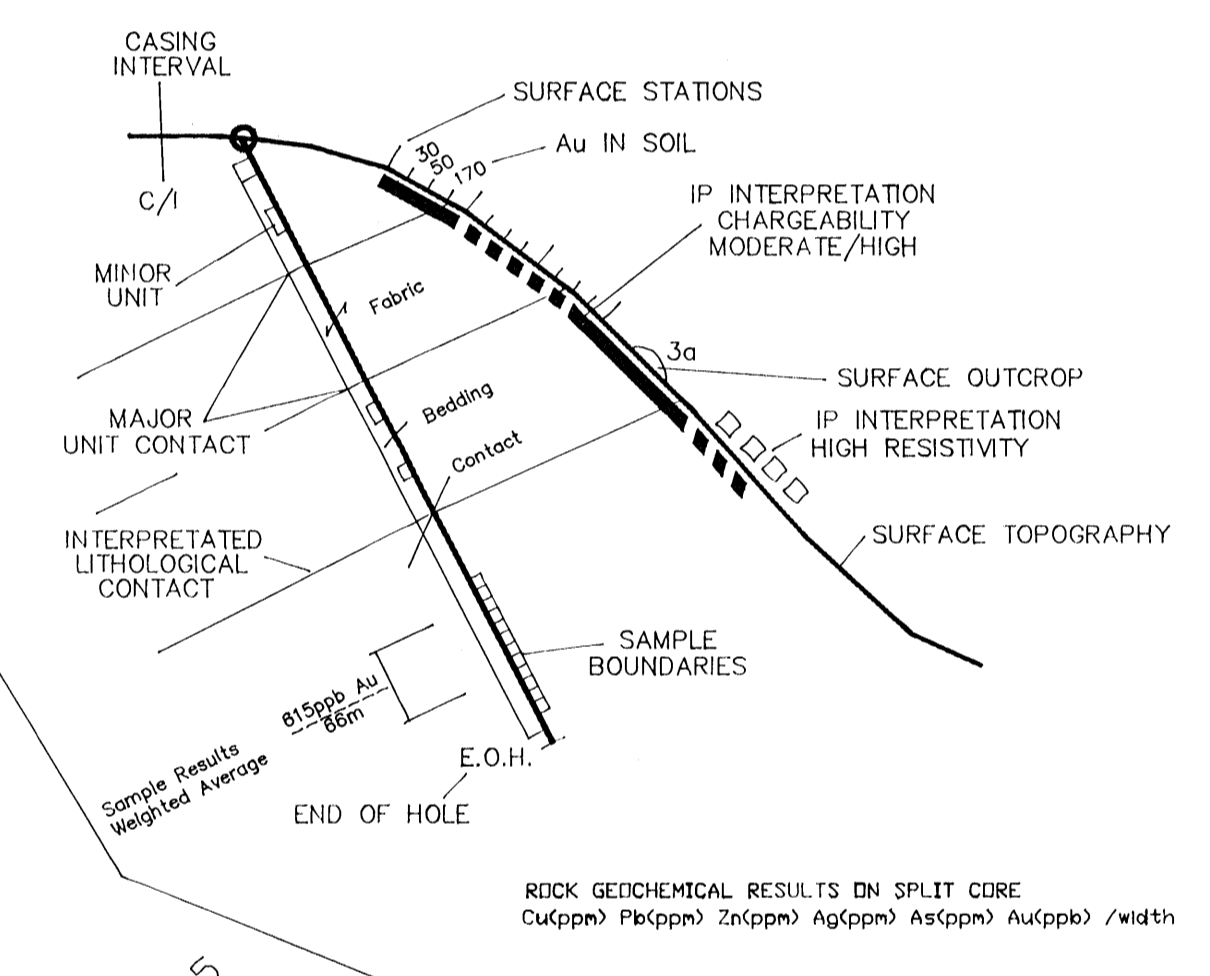
GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,983

REVISED	QUET PROJECT	
	SOUTHRIDGE ZONE	
	SECTION 309+00E	
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PROJ. NO. 100	SURVEY BY: R.G.W.	DATE: NOVEMBER 26, 1990
DATE: 9/27/90	DRAWN BY: GMS/Anticad (R. Wilson)	SCALE: 1:300
DWG. NO. 7	NORANDA EXPLORATION COMPANY, LIMITED OFFICE: VANCOUVER, B.C.	



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- ALTERATION**
- Qzx - QUARTZ FLOOD ZONE
- SYMBOLS**



noranda
NORANDA EXPLORATION CO. LTD.

QUET PROJECT
SOUTHRIDGE ZONE
SECTION 311+00E
DDH NQ90-3 GEOLOGY AND GEOCHEMISTRY

20,983

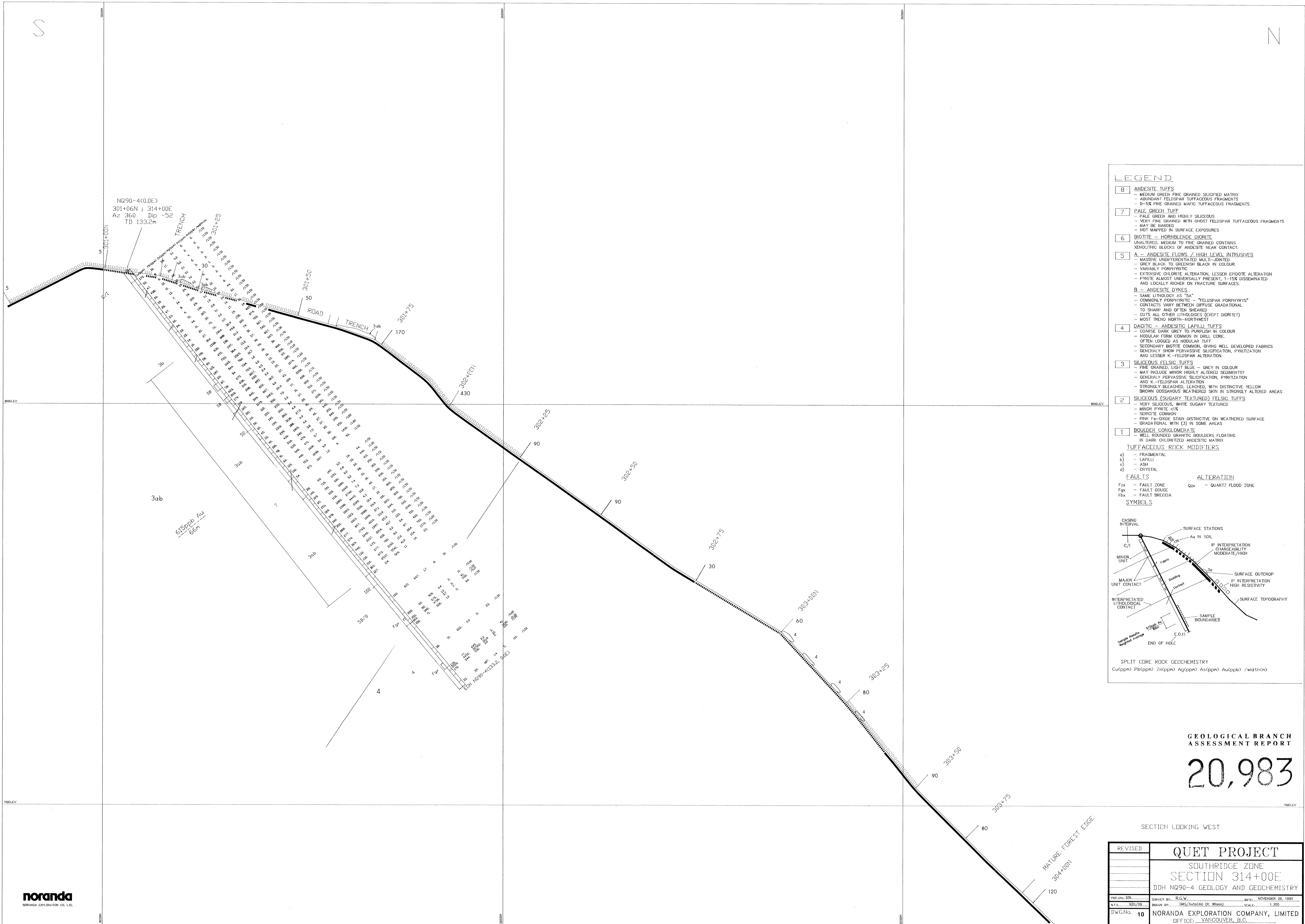
REVISIONS

NO.	DATE	BY	DESCRIPTION
1	NOVEMBER 28, 1990	REG/W	ISSUED FOR ASSESSMENT
2	11/30/90	REG/W	REVISED TO REFLECT SURVEY DATA
3	12/05/90	REG/W	REVISED TO REFLECT SURVEY DATA
4	12/05/90	REG/W	REVISED TO REFLECT SURVEY DATA
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6	12/05/90	REG/W	REVISED TO REFLECT SURVEY DATA
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8	12/05/90	REG/W	REVISED TO REFLECT SURVEY DATA
9	12/05/90	REG/W	REVISED TO REFLECT SURVEY DATA

DWG. No. 9 NORANDA EXPLORATION COMPANY, LIMITED
OFFICE - VANCOUVER, B.C.

S

N



LEGEND

- 8** ANDESITE TUFS
 - MEDIUM GREEN FINE GRAINED SILTIFIED MATRIX
 - ABUNDANT FELDSPAR TUFFACEOUS FRAGMENTS
 - 0-5% FINE GRAINED MAFIC TUFFACEOUS FRAGMENTS
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 - WELL ROUNDED GRANITIC BOULDERS FLOATING IN DARK CHLORITIZED ANDESITIC MATRIX

TUFFACEOUS ROCK MODIFIERS

- a) - FRAGMENTAL
- b) - LAPILLI
- c) - ASH
- d) - CRYSTAL

FAULTS

- Fzx - FAULT ZONE
- Fgx - FAULT GOUGE
- Fbx - FAULT BRECCIA

ALTERATION

- Qzx - QUARTZ FLOOD ZONE

SYMBOLS

SPLIT CORE ROCK GEOCHEMISTRY
 Cu(ppm) Pb(ppm) Zn(ppm) Ag(ppm) As(ppm) Au(ppb) /width(m)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,983

SECTION LOOKING WEST

REVISED	QUET PROJECT	
	SOUTHRIDGE ZONE	
	SECTION 314+00E	
	DDH NQ90-4 GEOLOGY AND GEOCHEMISTRY	
PROJ. No. 326	DRIVEN BY: R.G.V.	DATE: NOVEMBER 26, 1990
NTS: 226/09	DRIVEN BY: GMS/AutoCAD (R. Wilson)	SCALE: 1:300
DWG. No. 10	NORANDA EXPLORATION COMPANY, LIMITED	
	OFFICE: VANCOUVER, B.C.	

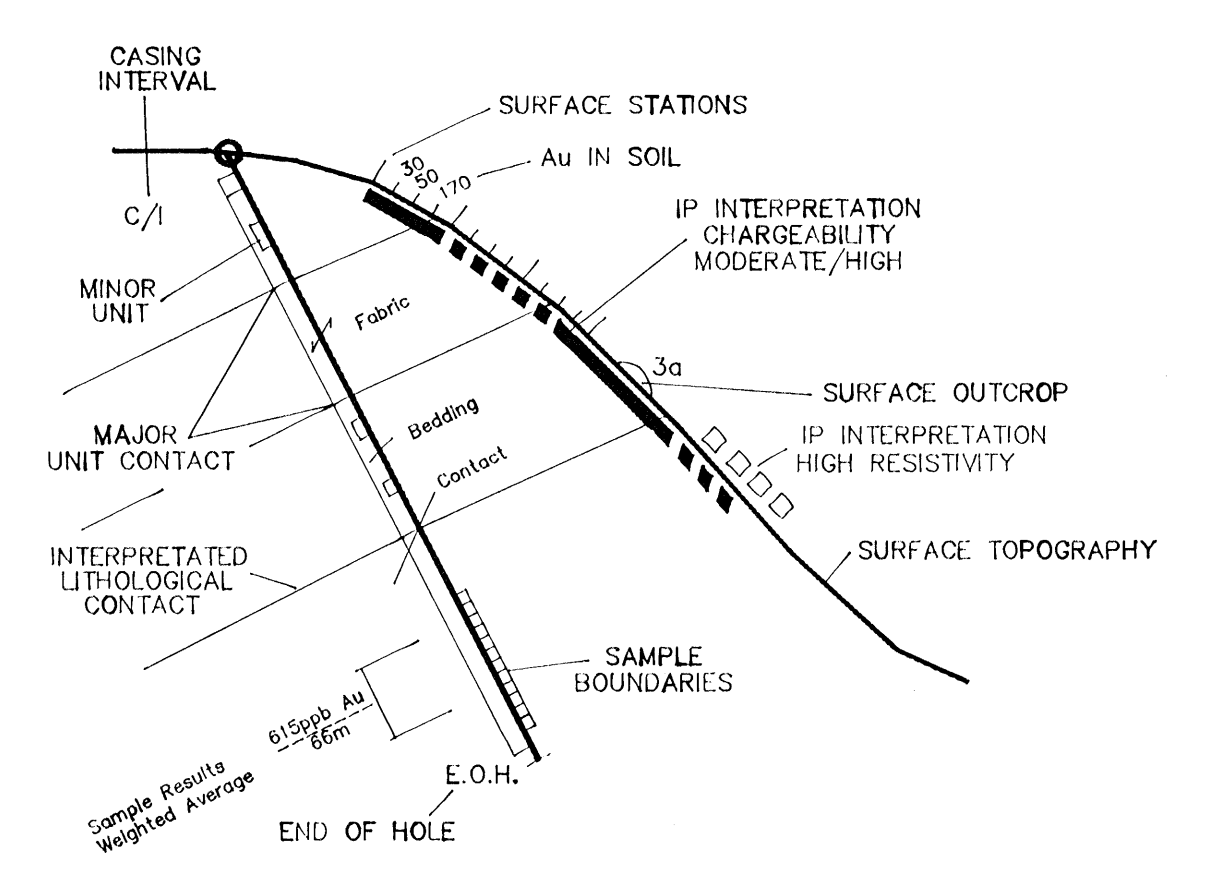
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NQ90-5(9.0E)
299+71N ; 308+09E
Az 360 Dip -60
TD 215.2



- LEGEND**
- 8 ANDESITE TUFFS
 - MEDIUM GREEN FINE GRAINED SILICIFIED MATRIX
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- TUFFACEOUS ROCK MODIFIERS**
- a) - FRAGMENTAL
 - b) - LAPILLI
 - c) - ASH
 - d) - CRYSTAL
- FAULTS**
- Fzx - FAULT ZONE
 - Ffx - FAULT GOUGE
 - Fbx - FAULT BRECCIA
- ALTERATION**
- Qzx - QUARTZ FLOOD ZONE
- SYMBOLS**



ROCK GEOCHEMICAL RESULTS ON SPLIT CORE
Cu(ppm) Pb(ppm) Zn(ppm) Ag(ppm) As(ppm) Au(ppm) /Width(m)

SECTION LOOKING WEST

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,983

REVISED	QUET PROJECT	
	SOUTHRIDGE ZONE	
	SECTION 308+00E	
	DDH NQ90-5 GEOLOGY AND GEOCHEMISTRY	
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NOTE: I.P. NOT COMPLETED ON THIS SECTION