

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 92.03.04

ASSESSMENT REPORT 21050

MINING DIVISION: Atlin

PROPERTY: Pinelode

LOCATION: LAT 59 35 00 LONG 133 29 00
NTS 104N11W

CAMP: 053 Atlin Camp

CLAIM(S): Yam 2-3

OPERATOR(S): Noranda Ex.

AUTHOR(S): Diment, R.

REPORT YEAR: 1990, 29 Pages

COMMODITIES

SEARCHED FOR: Gold

KEYWORDS: Pennsylvanian-Permian, Cache Creek Group, Andesites, Argillites
Limestones, Cherts, Ultramafics

WORK

DONE: Drilling, Geochemical
ROTD 160.0 m 3 hole(s)
Map(s) - 5; Scale(s) - 1:5000
SAMP 80 sample(s) ;ME

RELATED

REPORTS: 13918, 17440, 19944, 21046

LOG NO: <i>March 8/91</i> RD.
ACTION:
FILE NO:

DRILLING REPORT 1990
ON THE
YAM 1-3, MAY 1-21 & KAREN CLAIMS
PINELODE PROPERTY

Atlin Mining District

NTS: 104 N/ 11 & 12

Latitude: 59 43'

Longitude: 133 29'

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,050

SUB-RECORDER RECEIVED
MAR 04 1991
M.R. # S. VANCOUVER, B.C.

Author: R. Diment
Date : June, 1990

SUMMARY

The Pinelode Property consists of 85 contiguous units 12km east of Atlin B.C.. During June of 1990 three reverse circulation drill holes were drilled to test I.P. anomalies that were coincident with linear magnetic breaks. This geophysical signature is believed to represent gold bearing listwanitic alteration zones in fault contact between ultramafic intrusive rocks and andesite volcanic rocks.

Results from the drilling program returned no significant gold values. However, drilling failed to intersect the contact (i.e. the target for listwanitic alteration zones) between the ultramafic intrusive and the andesite.

Due to the fact that these listwanitic alteration zones are often narrow, and outcrop on the property is scarce, a more aggressive drilling program, (utilizing drill fences) is required in order to intersect the contact between the ultramafic intrusive and the andesite.

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CHAPTER ONE: INTRODUCTION

1-1: INTRODUCTORY STATEMENT

The Pinelode property consists of 85 contiguous units (May 1-21, Yam 1-3 and Karen claims) approximately 12km east of Atlin B.C.. The claims were staked at the heads of both the Pine Creek and Gold Run placer deposits targeting the possible lode gold source of the placers. In June of 1990 a small reverse circulation drilling program was completed on the property, consisting of three holes totalling 160m. All three holes were designed to test I.P. anomalies that were coincident with linear magnetic breaks. This geophysical signature is believed to represent gold bearing listwanitic alteration zones in contact between ultramafic intrusive rocks and andesitic volcanic rocks. For interpretations of results from the magnetometer and I.P. surveys refer to assessment reports by the author dated April 1990 and June 1990 respectively.

This report summarizes the work done on the property in June of 1990 and discusses the results from the 3 reverse circulation drill holes.

1-2: LOCATION & ACCESS

The property (NTS 104N/11 & 12, Lat. 59 43', Long. 133 29') is located 12km east of Atlin B.C.. The claims are accessible by the all-season Atlin-Surprise Lake gravel road, which traverses the property in an east-west direction. Numerous cat trails on the Yam 3 claims and the Birch Creek placer mining road on the Yam 2 claim give greater access to the bulk of the property in

NORANDA EXPLORATION

PINELODE PROPERTY

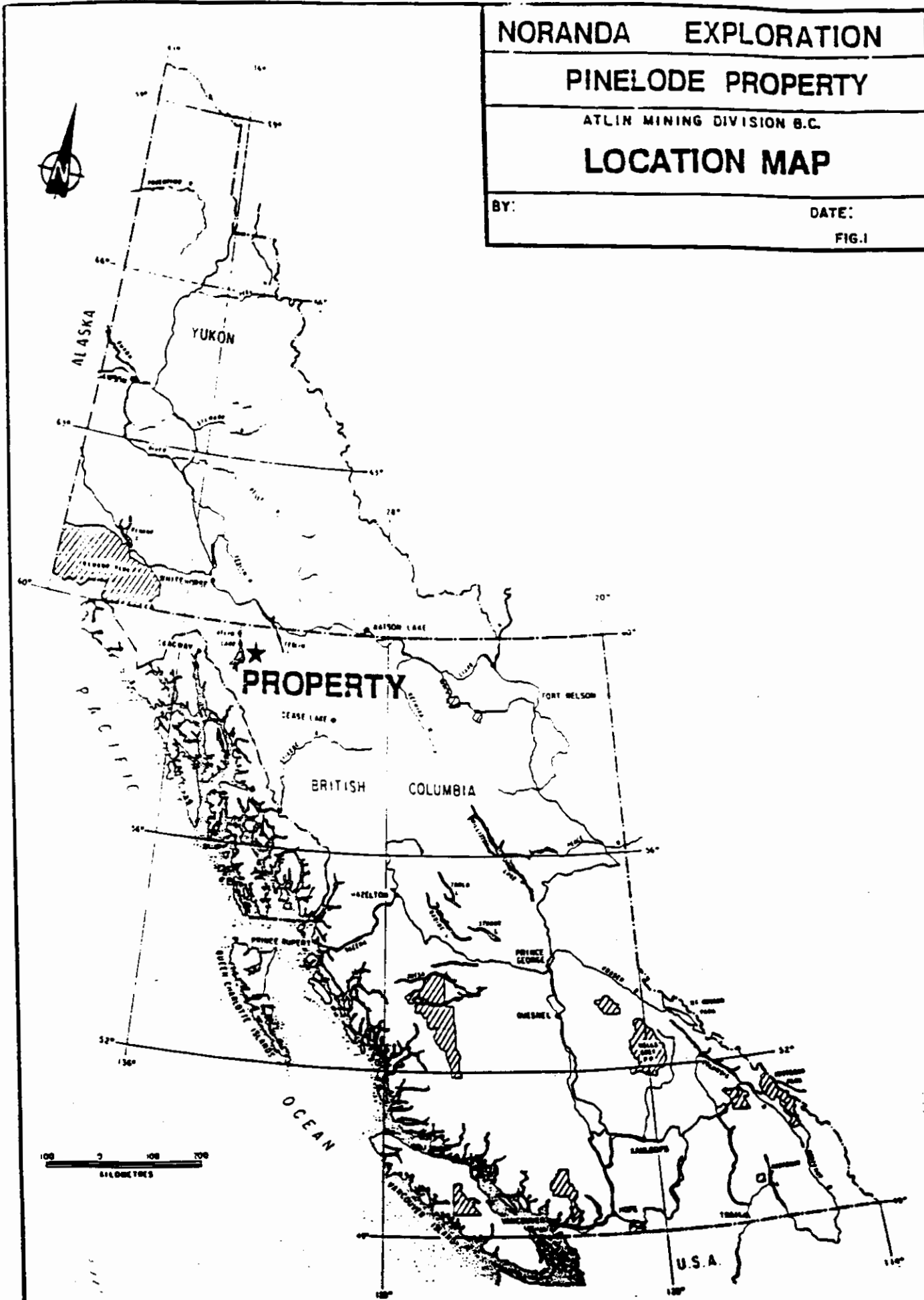
ATLIN MINING DIVISION B.C.

LOCATION MAP

BY:

DATE:

FIG.1



summer months.

1-3: PHYSIOGRAPHY & VEGETATION

The Atlin area is located just east of the coast mountains on the Teslin Plateau. This area is characteristic of broad U shaped valleys which strike northeast and northwest. Topography is moderately rugged with slopes up to 35 degrees rising from valley floors at a 900m elevation to mountains over 1900m. Most of the property lies on the Pine Creek valley bottom where topography is very gentle (900-950m); however the southern edge of the claim block runs along the northwestern flank of Spruce Mountain where slopes are greater than 30 degrees and topography reaches a maximum of 1300m. On the valley bottom the property is covered by glacial till up to 20m thick. Glacial features such as terraces and kames are common south of Pine Creek on the Yam 3 claim.

The property is forested with lodgepole pine, black spruce, aspen and dwarf birch on the valley bottom. Alder and willow predominate near creeks and buckbrush on the higher topography.

1-4: CLAIM STATUS

<u>CLAIMS</u>	<u>NO. UNITS</u>	<u>RECORD NO.</u>	<u>OWNER</u>	<u>EXPIRY DATE</u>
Karen	10	2751	D.G.S. Purvis	Aug. 25/97
Yam 1	14	2342	Cream Silver	Aug. 10/98
Yam 2	20	2343	Cream Silver	Aug. 10/98
Yam 3	20	2344	Cream Silver	Aug. 10/98
May 1-21(2-Post)	21	2590-2610	D.G.S. Purvis	Apr. 28/96

1-5: PREVIOUS EXPLORATION

Gold was first discovered in the Atlin area by Fritz Miller in 1897. By 1898 3,000 people were camped near Atlin placer mining the nearby creeks. From 1898 to the present placer mining has produced an estimated 1,000,000 ounces of gold. Pine and Spruce creeks were the richest streams accounting for almost 60% of the total gold extracted in the Atlin placer camp.

Gold bearing quartz veins were first discovered in 1899, and by 1905 most of the known showings had been discovered. Although the showings have been reworked several times there is no record of regional exploration in the Atlin area since 1905.

In 1981 Yukon Revenue Mines Ltd. acquired the old Lakeview property and reported an extensive area of low grade gold bearing quartz stockworks in silicified and carbonatized andesites in contact with a serpentinite intrusive. This discovery created a renewed interest in the area especially where silicified and carbonatized ultramafics were in the vicinity of major placer gold producing creeks. After the claims were allowed to lapse Cream Silver acquired the property and adjoining ground by staking the GDC and Yam claims in 1984. The May and Karen claims were later staked D.G.S. Purvis. Later, the Yam May and Karen claims were combined forming the Pinelode property, jointly owned by Cream Silver Mines Ltd. (50%) and D.G.S. Purvis (Surprise Lake Exploration Ltd. 50%).

In 1984, Dighem Surveys and Processing Inc. conducted an airborne magnetometer survey over the Atlin Gold Camp. The

survey outlined several magnetic anomalies on the Yam and May claims which were further delineated through a ground magnetometer survey conducted by Cream Silver Mines Ltd. in 1985 and 1986. Between 1987 and 1989 no further exploration work was done on the property.

From 1986-1989 Homestake drilled the Yellowjacket property (2km west of the Pinelode Property) indicating intersections up to .5 oz/t Au over 3m. Gold values are associated with a quartz stockwork in carbonatized andesite and ultramafic rocks.

1-6: WORK PROGRAM

February 1990

Amerok Geophysics of Whitehorse, under contract by Noranda Exploration, conducted a 58 line km magnetometer survey over the Yam 2 and Yam 3 claims. For interpretation of results refer to Magnetometer Survey Report by the author dated April, 1990.

April - May 1990

In late April and early May of 1990 a 7.2km Induced Polarization Survey was conducted on the property. The survey was performed by Amerok Geophysics from Whitehorse under guidance by Noranda personnel. For interpretation of results refer to Induced Polarization Survey Report by the author dated April, 1990.

June 1990

In June of 1990 three reverse circulation drill holes totalling 160m were drilled by a three person crew from Midnight

Sun Drilling of Whitehorse. A two person Noranda crew processed and logged the rock chip samples.

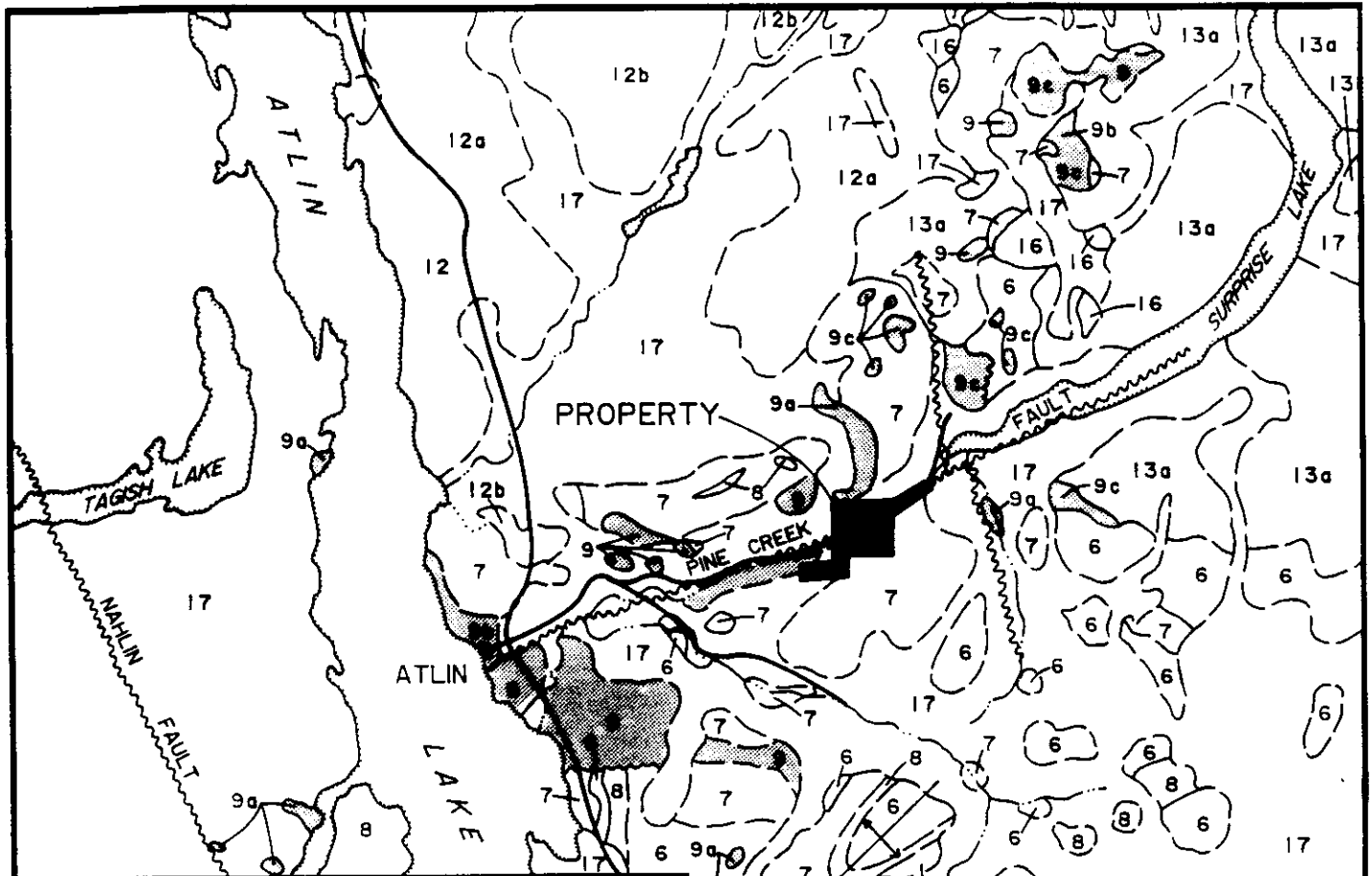
CHAPTER TWO: GEOLOGY

2-1: REGIONAL GEOLOGY

The Atlin area lies within a northwest trending sequence of Upper Paleozoic Cache Creek group rocks called the Atlin Terrane. These rocks consisting of radiolarian cherts, argillites, carbonates and volcanics that have been thrust toward the east along the northwesterly striking Nahlin Fault during mid-Jurassic time. This sequence has been intruded by late Jurassic Granite and Cretaceous Alaskite and Quartz Monzonite. Small remnant outcrops of Tertiary Olivine Basalt represent the youngest rock in the area.

Within the Atlin Terrane Permian ultramafic rocks form a discordant belt that cuts the tectonic fabric of the terrane. These intrusive bodies, consist of serpentized peridotite, gabbro and dunite, commonly exhibit intense listwanitic alteration (quartz-carbonate-mariposite) along their margins. This alteration is believed to be caused by thrust faults that have emplaced these ultramafics within Cache Creek group rocks (C.L. Ash and R.L. Arskey, 1989). The majority of known lode gold deposits in the Atlin area are associated with these quartz-carbonate altered ultramafics in contact with Cache Creek volcanics. The alteration zones show up as distinct linear magnetic lows in contrast to the relatively high magnetic response of the unaltered ultramafics.

Two major fault systems are known in the area. A series of



LEGEND

QUATERNARY

17 GLACIAL DRIFT ALLUVIUM

TERTIARY

16 OLIVINE BASALT

CRETACEOUS

13 ALASKITE

JURASSIC

12 UNDIFFERENTIATED GRANITIC ROCKS

PENNSYLVANIAN & PERMIAN ATLIN INTRUSIONS

9a PERIDOTITE

9b SERPENTINITE

9c CARBONITIZED SERPENTINITE

9d TALC BEARING (STEATITIZED) ULTRAMAFIC ROCKS

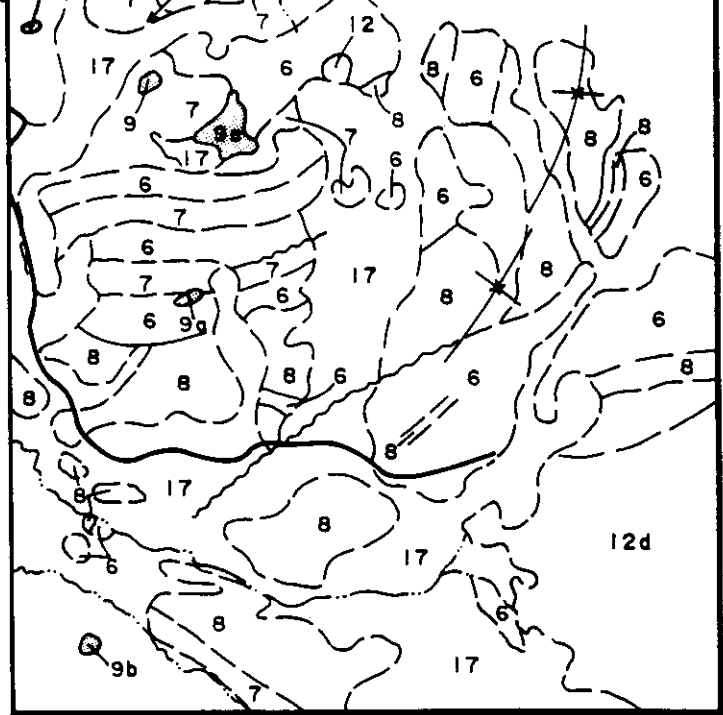
CACHE CREEK GROUP

6 CHERT, ARGILLITE, CHERT PEBBLE CONGLOMERATE

7 GREENSTONE, GREYWACKE, DERIVED AMPHIBOLITE

8 LIMESTONE, LIMESTONE BRECCIA

— GRAVEL ROAD ~~~~~ FAULT
 ↕ SYNCLINE * ANTICLINE



REVISED	PINELODE	
	REGIONAL GEOLOGY	
PROJ. No. 369	SURVEY BY: _____	DATE: MAY 1990
N.T.S. 104 N/12	DRAWN BY: HANDEHIN	SCALE: 1: 250,000
DWG. No.	NORANDA EXPLORATION	
	OFFICE: WHITEHORSE	

east-northeast trending structures occur just east of Atlin, represented by the Adera, Pine Creek and Union Mtn. Faults. A north trending fault system represented by the Otter & Ruby Creek Faults are believed to be tension fractures related to the Pine Creek linear.

2-2: PROPERTY GEOLOGY

Most of the property is overlain by a thick sequence of glacial till; therefore outcrop exposure is scarce and is confined to the steeper southern edge of the property. Large piles of placer tailings on the western portion of the property consists mainly of glacial till, gravels and minor fragments of local bedrock.

The claims are underlain by Cache Creek Group sediments and volcanics that have been intruded by Pennsylvanian and Permian ultramafics.

Cache Creek sediments outcrop along the southern edge of the claim block consisting of light grey fetid limestone, dark grey to black interbedded argillite and chert and light grey quartzite.

Small subcrops and angular float of Cache Creek volcanics occur on the northwestern part of the property. These volcanics consist mainly of light green fine grained andesite with 1-2% disseminated pyrite.

Ultramafics outcrop on the southern edge of the property consisting of dark green-blue waxy serpentinite that has been

weakly to moderately carbonatized. Large angular fragments of quartz-carbonate altered serpentinite are common in the tailings pile from the Queenstake placer pit.

CHAPTER THREE: DRILLING

3-1: REVERSE CIRCULATION DRILLING

A total of 3 holes, totalling 160m, were drilled to test coincident I.P. and magnetic anomalies. This geophysical signature is believed to represent gold bearing listwanitic alteration zones in fault contact between ultramafic intrusive rocks and andesitic volcanic rocks. The following table summarizes hole locations.

<u>HOLE</u>	<u>CO-ORDINATES</u>	<u>AZ</u>	<u>ANG</u>	<u>DEP</u>	<u>I.P. TARGET</u>
PNL90-1	9310E 10305N	325	-60	50m	9300E/10375N/depth=30m
PNL90-2	10205E 10040N	325	-60	60m	10200E/10075N/D=65m
PNL90-3	10810E 9395N	325	-60	50m	10800E/9412N/D=30m

Samples were collected at 2m intervals throughout the length of the holes. A 12.5% split was taken from each sample for analysis.

Analysis was done by Acme Laboratories in Vancouver. All samples were analysed for 30 elements by ICP and for Au & Hg by Atomic Absorption.

PNL90-2 was originally planned for a depth of 100m. However, the hole had to be abandoned at 60m due to high water pressure. As a result the I.P. target (depth=65m) was not intersected by the drill hole.

3-2: RESULTS

Unfortunately, the geochemical results from the three drill holes failed to produce any significant gold values. Pathfinder

elements for gold such as arsenic, antimony, mercury were also insignificant.

Geology encountered in drilling included serpentized ultramafics, pyritic andesites and a quartz rich intrusive. All lithologies were moderately to strongly carbonatized. Below is a brief summary of each hole.

PNL90-1

0.0 - 50.0 dark green fine grained ultramafic
intrusive moderately carbonatized

PNL90-2

0.0 - 20.0 dark green pyritic andesite moderately
carbonatized

20.0 - 26.0 light green pyritic andesite, qtz stock-
work, strong carbonatization

26.0 - 60.0 dark green pyritic andesite moderately
carbonatized

PNL90-3

0.0 - 40.0 dark green fine grained andesite minor qtz
stockwork veining

40.0 - 50.0 light greenish grey intrusive strongly
carbonatized

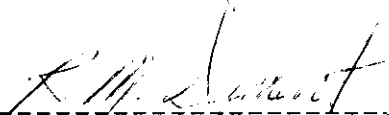
Appendices I & II contain detailed drill logs and geochemical results for each drill hole respectively.

CHAPTER FOUR: CONCLUSION & RECOMMENDATION

Results from the three reverse circulation drill holes (totalling 160m) failed to return any significant gold values. Serpentinized ultramafics and pyritic andesites were the major units encountered. However the contact (i.e. the target for listwanitic alteration zones) between the two rock types was not intersected, implying that the drilling program did not fully assess the economic potential of the property.

Due to the fact that these listwanitic alteration zones are often narrow, and outcrop on the property is scarce a more aggressive drilling program (utilizing drill fences) is needed in order to intersect the contact between the ultramafic intrusive and the andesite.

Respectfully submitted by;



Rick Diment
Geologist
June 21, 1990

STATEMENT OF COST

DRILLING	160m @ \$79.75/m	\$12,760.
D6 CAT	28hrs @ \$75./hr	2,166.
ASSAYS	80 samples @ \$20./sample	1,600.
LABOUR	8 mandays @ \$160./day	1,280.
SERVICES	room & board	950.
	ground support	400.
Report Writing & Drafting		<u>1,500.</u>
	TOTAL	\$20,656.

SELECTED REFERENCES

Aitken, J.D.

1960: Geology, Atlin, Cassiar District, British Columbia: Geological Survey of Canada Map 1082A, Scale 1:250,000.

Ash, C.H. and Arskey, R.L.

Tectonic Setting of Listwanite-Lode Gold Deposits in the Atlin Area NW. B.C., NTS 104N/12, B.C. Ministry of Energy Mines and Petroleum Resources, Open File 1990-22.

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Geology and Mineralization of the Atlin Area, Northwestern British Columbia (104N/11W and 12E), B.C. Ministry of Energy Mines and Petroleum Resources, Geologic Fieldwork, 1988, Paper 1989-1, pages 311-320.

Diment, R.M.

1990: Magnetometer Survey Report on the Yam 1-3, May 1-21 & Karen Mineral Claims, Atlin Mining District, B.C..

1990: Induced Polarization Survey Report on the Yam 1-3, May 1-21 & Karen Mineral Claims, Atlin Mining District, B.C..


Gonzalez, R.A.

1985: Magnetometer Survey Report on the Yam 3 Mineral Claim, Atlin Mining Division B.C..

STATEMENT OF QUALIFICATIONS

I, Richard M. Diment, do hereby certify that;

- 1) I have been employee of Noranda Exploration Company Limited (npl) in Whitehorse, Yukon since April 1989.
- 2) I am a graduate of the University of British Columbia with a B.Sc. in Geology.
- 3) I have practised my profession for the past three years in British Columbia and one year in the Yukon.
- 4) I supervised and participated in field work done in 1990.



Richard M. Diment

Geologist

APPENDIX I
DRILL LOGS

PROPERTY : Pineclode
 HOLE No. : PNL90-1
 Grid System :
 Collar Eastings : 9310.000
 Collar Northings : 10305.000
 Collar Elevations : 900.000
 Collar Bearing : 325.00
 Grid Baseline : 0.00

DIAMOND DRILL LOG

PAGE : 1

Collar Inclination : -60.00
 Grid Bearing : 0.00
 Final Depth : 50.00
 Claim No. :

Logged by : Rick Diment
 Date : June 6, 1990 - June 6, 1990
 Downhole Survey :
 Drilled By : Midnight Sun
 Core Size : RC

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)			ASSAYS								
FROM	TO				FROM	TO	WIDTH	Au	Ag	As	Sb	Bg	Bi			
0.00	2.00	ovtr	casing													
2.00	50.00	int	dark green to black fine grained ultramafic intrusive, strongly magnetic with varying amounts of serpentine, talc & white qtz veining	11327	2.00	4.00	2.00	10.	0.	2.	2.	10.	85.			
				11328	4.00	6.00	2.00	1.	0.	8.	2.	5.	285.			
				11329	6.00	8.00	2.00	1.	0.	4.	2.	20.	84.			
				11330	8.00	10.00	2.00	2.	0.	2.	2.	30.	38.			
				11331	10.00	12.00	2.00	9.	0.	2.	2.	20.	209.			
				11332	12.00	14.00	2.00	3.	0.	6.	2.	40.	585.			
14.00	16.00	wet		11333	14.00	16.00	2.00	6.	0.	7.	2.	30.	1364.			
				11334	16.00	18.00	2.00	5.	0.	6.	2.	10.	0.			
				11335	18.00	20.00	2.00	8.	0.	0.	2.	20.	1656.			
				11336	20.00	22.00	2.00	15.	0.	2.	2.	30.	582.			
				11337	22.00	24.00	2.00	5.	0.	2.	3.	15.	167.			
				11338	24.00	26.00	2.00	4.	0.	3.	2.	20.	158.			
26.00	28.00	wet		11339	26.00	28.00	2.00	5.	0.	2.	2.	20.	1311.			
				11340	28.00	30.00	2.00	11.	0.	9.	2.	10.	1536.			
				11341	30.00	32.00	2.00	5.	0.	5.	2.	10.	1667.			
32.00	34.00		unwashed split fine powder. very few chips light green to white, serpentine & talc have been pulverized	11342	32.00	34.00	2.00	1.	0.	10.	2.	20.	805.			
				11343	34.00	36.00	2.00	2.	0.	4.	2.	5.	1280.			
				11344	36.00	38.00	2.00	4.	0.	7.	2.	5.	1236.			
				11345	38.00	40.00	2.00	7.	0.	5.	2.	10.	1251.			
				11346	40.00	42.00	2.00	7.	0.	8.	2.	20.	1229.			
				11347	42.00	44.00	2.00	2.	0.	7.	2.	10.	1389.			
				11348	44.00	46.00	2.00	7.	0.	11.	2.	5.	1301.			
46.00	48.00		light green to white colour intense serpentinization	11349	46.00	48.00	2.00	7.	0.	4.	2.	20.	475.			
			END OF HOLE 50.0m	11350	48.00	50.00	2.00	1.	0.	19.	2.	30.	1004.			

PROPERTY : Pinedale
 HOLE No. : PNL90-2
 Grid System :
 Collar Eastings : 10205.060
 Collar Northings : 10040.060
 Collar Elevations : 900.000
 Collar Bearing : 325.00
 Grid Baseline : 0.00

MGRANDA EXPLORATION CO. LTD.
 DIAMOND DRILL LOG

PAGE : 1

Collar Inclination : -60.00
 Grid Bearing : 0.00
 Final Depth : 60.00
 Claim No. :

Logged by : Rick Diment
 Date : June 7, 1990
 Downhole Survey :
 Drilled By : Midnight Sun
 Core Size : RC

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	ASSAYS												
FROM	TO				FROM	TO		Au	Ag	As	Sz	Hg	Ni							
0.00	3.50	ovbr	casing																	
3.50	60.00	ande	dark green fine grained andesite (non-magnetic) mod-strongly carbonatized with tr.-lk pyrite, fine hairline qtz stockwork veining	11374	3.50	6.00	2.50	7.	0.	7.	2.	5.	45.							
				11375	6.00	8.00	2.00	1.	0.	12.	2.	13.	48.							
				11376	8.00	10.00	2.00	2.	0.	5.	2.	20.	56.							
				11377	10.00	12.00	2.00	2.	0.	7.	3.	14.	34.							
				11378	12.00	14.00	2.00	2.	0.	3.	2.	5.	24.							
				11379	14.00	16.00	2.00	3.	0.	2.	2.	10.	36.							
				11380	16.00	18.00	2.00	3.	0.	2.	2.	5.	28.							
				11381	18.00	20.00	2.00	7.	0.	7.	2.	5.	36.							
20.00	26.00		light green qtz rich pyritic andesite: qtz stockwork & strong carbonatization	11382	20.00	22.00	2.00	6.	0.	4.	2.	5.	61.							
				11383	22.00	24.00	2.00	4.	0.	5.	2.	20.	77.							
				11384	24.00	26.00	2.00	5.	0.	4.	2.	14.	76.							
26.00	60.00		dark green f.g. andesite tr & pyrite, qtz stockwork veining 2mm wide veins	11385	26.00	28.00	2.00	72.	0.	7.	2.	10.	60.							
				11386	28.00	30.00	2.00	14.	0.	2.	2.	5.	39.							
			END OF HOLE	11387	30.00	32.00	2.00	3.	0.	2.	2.	20.	37.							
			HOLE HAD TO BE ABANDONED DUE TO HIGH WATER PRESSURE	11388	32.00	34.00	2.00	5.	0.	2.	2.	5.	45.							
				11389	34.00	36.00	2.00	4.	0.	2.	2.	5.	41.							
				11390	36.00	38.00	2.00	3.	0.	2.	2.	20.	37.							
				11391	38.00	40.00	2.00	1.	0.	2.	2.	10.	54.							
				11392	40.00	42.00	2.00	2.	0.	4.	2.	5.	41.							
				11393	42.00	44.00	2.00	4.	0.	3.	2.	10.	24.							
				11394	44.00	46.00	2.00	6.	0.	4.	2.	20.	29.							
				11395	46.00	48.00	2.00	5.	0.	3.	2.	15.	47.							
				11396	48.00	50.00	2.00	4.	0.	3.	2.	5.	34.							
				11397	50.00	52.00	2.00	2.	0.	2.	2.	5.	42.							
				11398	52.00	54.00	2.00	2.	0.	3.	2.	10.	26.							
				11399	54.00	56.00	2.00	17.	0.	4.	2.	20.	30.							
				11400	56.00	58.00	2.00	1.	0.	2.	3.	20.	33.							
				11401	58.00	60.00	2.00	1.	0.	2.	2.	10.	30.							

ROHANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PAGE : 1

PROPERTY : Pinelode
HOLE No. : PRL90-3
Grid System :
Collar Eastings : 10810.000
Collar Northings : 9395.000
Collar Elevations : 920.000
Collar Bearing : 325.00
Grid Baseline : 0.00

Collar Inclination : -60.00
Grid Bearing : 0.00
Pinol Depth : 50.00
Claim No. :

Logged by : Rick Diment
Date : June 7, 1956
Downhole Survey :
Drilled by : Midnight Sun
Core Size : RC

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	ASSAYS												
FROM	TO				FROM	TO		Au	Ag	As	St	Hg	Ni							
0.00	3.00	ovbr	casing																	
3.00	40.00	ande	Non-magnetic med to dark green fine grained andesite mod-strongly carbonatized																	
	3.00		lighter green colour & qtz stockwork veining	11351	3.00	6.00	3.00	4.	0.	9.	4.	5.	97.							
			14.0 - 16.0 wet	11352	6.00	8.00	2.00	6.	0.	2.	2.	10.	32.							
				11353	8.00	10.00	2.00	1.	0.	6.	3.	10.	21.							
				11354	10.00	12.00	2.00	6.	0.	2.	4.	5.	22.							
				11355	12.00	14.00	2.00	2.	0.	4.	3.	10.	21.							
				11356	14.00	16.00	2.00	2.	0.	5.	4.	5.	17.							
16.00	34.00		dark green colour minor calcite veins very little qtz	11357	16.00	18.00	2.00	6.	0.	3.	2.	5.	25.							
			26.0-28.0 wet	11358	18.00	20.00	2.00	7.	0.	6.	2.	10.	40.							
				11359	20.00	22.00	2.00	5.	0.	3.	3.	5.	55.							
				11360	22.00	24.00	2.00	1.	0.	5.	3.	10.	53.							
				11361	24.00	26.00	2.00	51.	0.	2.	2.	5.	56.							
				11362	26.00	28.00	2.00	6.	0.	3.	2.	5.	24.							
				11363	28.00	30.00	2.00	2.	0.	2.	2.	10.	33.							
				11364	30.00	32.00	2.00	3.	0.	2.	2.	10.	24.							
				11365	32.00	34.00	2.00	4.	0.	9.	3.	5.	27.							
34.00	40.00		light green colour qtz stockwork veining	11366	34.00	36.00	2.00	7.	0.	7.	2.	20.	32.							
				11367	36.00	38.00	2.00	4.	0.	9.	2.	10.	28.							
				11368	38.00	40.00	2.00	2.	0.	7.	2.	5.	63.							
40.00	50.00	int	light greenish grey intrusive (coarser grained) 10% quartz strongly carbonatized	11369	40.00	42.00	2.00	4.	0.	7.	3.	5.	103.							
			END OF HOLE	11370	42.00	44.00	2.00	4.	0.	5.	2.	5.	87.							
				11371	44.00	46.00	2.00	18.	0.	15.	2.	5.	96.							
				11372	46.00	48.00	2.00	6.	0.	13.	2.	5.	67.							
				11373	48.00	50.00	2.00	5.	0.	12.	2.	5.	126.							

APPENDIX II

RESULTS

GEOCHEMICAL ANALYSIS CERTIFICATE

Noranda Exploration Co. Ltd. PROJECT 9006-020 File # 90-1690 Page 1
 P.O. Box 2380, 1050 Davie St., Vancouver BC V6B 3T5

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Mi	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*	Hg
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb	ppb
011327 DR	1	26	8	26	.1	85	15	406	2.74	2	5	ND	1	10	.2	2	2	83	1.42	.043	2	92	1.94	8	.18	2	1.68	.16	.07	1	10	10
011328 DR	1	18	3	44	.1	285	26	434	3.95	8	5	ND	1	6	.3	2	2	103	.97	.042	2	277	4.73	5	.16	4	2.42	.10	.04	1	1	5
011329 DR	1	25	5	31	.1	84	16	445	2.99	4	5	ND	1	10	.2	2	2	89	1.51	.043	2	101	1.99	14	.24	2	1.74	.14	.04	1	1	20
011330 DR	1	41	6	11	.1	38	12	376	2.60	2	5	ND	1	10	.2	2	2	84	1.44	.040	2	54	1.54	3	.22	2	1.44	.16	.05	1	3	30
011331 DR	1	26	2	30	.1	209	20	382	3.11	2	5	ND	1	6	.2	2	2	96	1.11	.042	2	196	3.21	3	.19	2	1.92	.11	.05	1	9	20
011332 DR	1	16	2	36	.1	585	39	538	4.25	8	5	ND	1	6	.2	2	2	97	1.08	.032	2	416	8.88	3	.11	13	2.10	.08	.03	1	3	40
011333 DR	1	13	3	15	.1	1364	67	476	3.80	7	5	ND	1	1	.2	2	2	42	.16	.010	2	769	16.52	1	.02	39	.81	.01	.01	1	6	30
011334 DR	1	28	2	15	.1	1699	71	386	3.32	6	5	ND	1	2	.2	2	3	18	.24	.006	2	256	14.92	1	.01	27	.32	.01	.01	1	5	10
011335 DR	1	10	2	17	.1	1656	71	701	3.85	6	5	ND	1	3	.2	2	2	14	.75	.007	2	556	17.61	1	.01	35	.26	.01	.01	1	8	20
011336 DR	1	64	2	30	.1	588	36	488	4.03	2	5	ND	1	8	.4	2	2	98	1.82	.041	2	211	7.11	1	.19	9	1.83	.06	.01	1	15	30
011337 DR	1	45	4	40	.2	167	22	550	3.86	2	5	ND	1	12	.2	3	2	116	2.53	.056	2	89	2.73	2	.28	3	1.83	.15	.04	1	5	10
011338 DR	1	10	9	44	.1	158	24	635	4.30	3	5	ND	1	14	.2	2	2	135	2.76	.052	2	108	3.18	4	.28	5	2.05	.14	.04	1	4	20
011339 DR	1	22	5	19	.1	1311	60	488	3.84	2	5	ND	1	4	.2	2	2	39	.75	.014	2	459	14.05	3	.06	28	.71	.02	.01	1	5	20
011340 DR	1	17	12	19	.1	1538	69	458	3.73	9	5	ND	1	2	.2	2	2	27	.20	.008	2	683	15.33	2	.02	33	.45	.01	.01	1	11	10
011341 DR	1	21	3	13	.1	1667	73	453	3.60	5	5	ND	1	3	.2	2	2	20	.29	.006	2	556	15.42	9	.01	25	.32	.01	.01	1	5	10
011342 DR	1	36	13	54	.1	805	49	696	4.72	10	5	ND	3	141	.6	2	4	86	1.62	.243	26	614	12.19	548	.20	14	2.69	.05	.15	1	1	20
011343 DR	1	15	7	14	.1	1280	63	476	3.95	4	5	ND	1	27	.2	2	4	30	.50	.020	2	1000	12.95	29	.02	34	.52	.01	.01	1	2	5
011344 DR	1	10	3	13	.1	1236	61	438	3.94	7	5	ND	1	10	.2	2	2	27	.44	.010	2	1007	11.96	8	.01	27	.39	.01	.01	1	4	5
011345 DR	1	11	2	10	.1	1251	60	406	3.94	5	5	ND	1	10	.2	2	2	28	.42	.010	2	1023	12.53	9	.01	24	.43	.01	.01	1	7	10
011346 DR	1	11	2	11	.1	1229	56	390	3.67	8	5	ND	1	2	.2	2	3	24	.19	.007	2	950	12.00	4	.01	24	.36	.01	.01	1	7	20
011347 DR	1	5	5	13	.1	1389	62	684	3.82	7	5	ND	1	1	.2	2	3	23	.15	.007	2	896	14.73	1	.01	43	.33	.01	.01	1	2	10
011348 DR	1	8	5	13	.1	1301	59	542	3.60	11	5	ND	1	4	.2	2	2	22	.49	.007	2	846	13.33	4	.01	34	.33	.01	.01	1	7	5
011349 DR	1	53	2	28	.1	475	33	663	4.39	4	5	ND	1	8	.2	2	2	92	2.58	.036	2	360	8.54	5	.20	14	1.65	.01	.01	1	7	20
011350 DR	1	31	4	35	.1	1004	53	692	4.34	19	5	ND	1	16	.3	2	3	78	2.11	.019	2	599	10.80	1	.04	10	1.51	.01	.01	1	1	30
011351 DR	1	17	6	44	.1	97	16	421	2.53	9	5	ND	1	12	.2	4	2	59	1.17	.055	4	201	2.56	69	.15	2	2.01	.03	.10	2	4	5
011352 DR	2	24	5	47	.1	32	13	452	2.66	2	5	ND	1	23	.2	2	3	51	2.28	.059	5	133	2.01	35	.13	2	1.93	.03	.07	1	6	10
011353 DR	1	23	5	50	.1	21	11	397	2.35	6	5	ND	1	22	.3	3	2	47	1.97	.057	5	113	1.71	38	.15	2	1.88	.04	.06	1	1	10
011354 DR	2	27	6	44	.1	22	10	307	2.15	2	5	ND	1	16	.2	4	2	42	1.20	.054	4	106	1.50	33	.14	4	1.44	.04	.05	1	6	5
011355 DR	2	24	3	54	.1	21	13	464	2.69	4	5	ND	1	41	.2	3	2	48	2.75	.055	4	121	1.94	37	.09	3	1.92	.03	.08	1	2	10
011356 DR	2	15	7	35	.1	17	9	309	1.99	5	5	ND	1	20	.2	4	2	52	1.55	.074	4	86	1.28	43	.15	2	1.36	.05	.05	1	2	5
011357 DR	1	32	2	24	.2	25	12	386	2.28	3	5	ND	1	14	.2	2	2	73	1.64	.036	2	50	.97	42	.26	2	1.05	.05	.05	2	6	5
011358 DR	1	61	2	35	.1	42	18	417	2.67	6	5	ND	1	10	.2	2	2	73	1.49	.032	2	57	.96	66	.25	3	1.19	.05	.12	1	7	10
011359 DR	1	66	2	30	.1	55	21	440	2.95	3	5	ND	1	20	.3	3	2	75	2.57	.033	2	73	1.13	20	.24	2	1.27	.06	.05	1	5	5
011360 DR	1	72	2	37	.1	53	25	479	3.53	5	5	ND	1	30	.2	3	2	84	2.59	.037	2	71	1.25	17	.27	3	1.30	.08	.06	1	1	10
011361 DR	1	63	2	33	.1	56	27	358	3.39	2	5	ND	1	12	.2	2	2	81	1.44	.037	2	48	.94	24	.23	2	1.10	.06	.06	1	51	5
STANDARD C/AU-R	17	58	40	135	7.0	67	31	1051	3.62	41	18	7	36	47	18.0	16	24	58	.46	.096	35	56	.80	174	.09	33	1.73	.06	.14	12	500	1500

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

DATE RECEIVED: JUN 11 1990 DATE REPORT MAILED: June 14/90 SIGNED BY: C. Leung D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

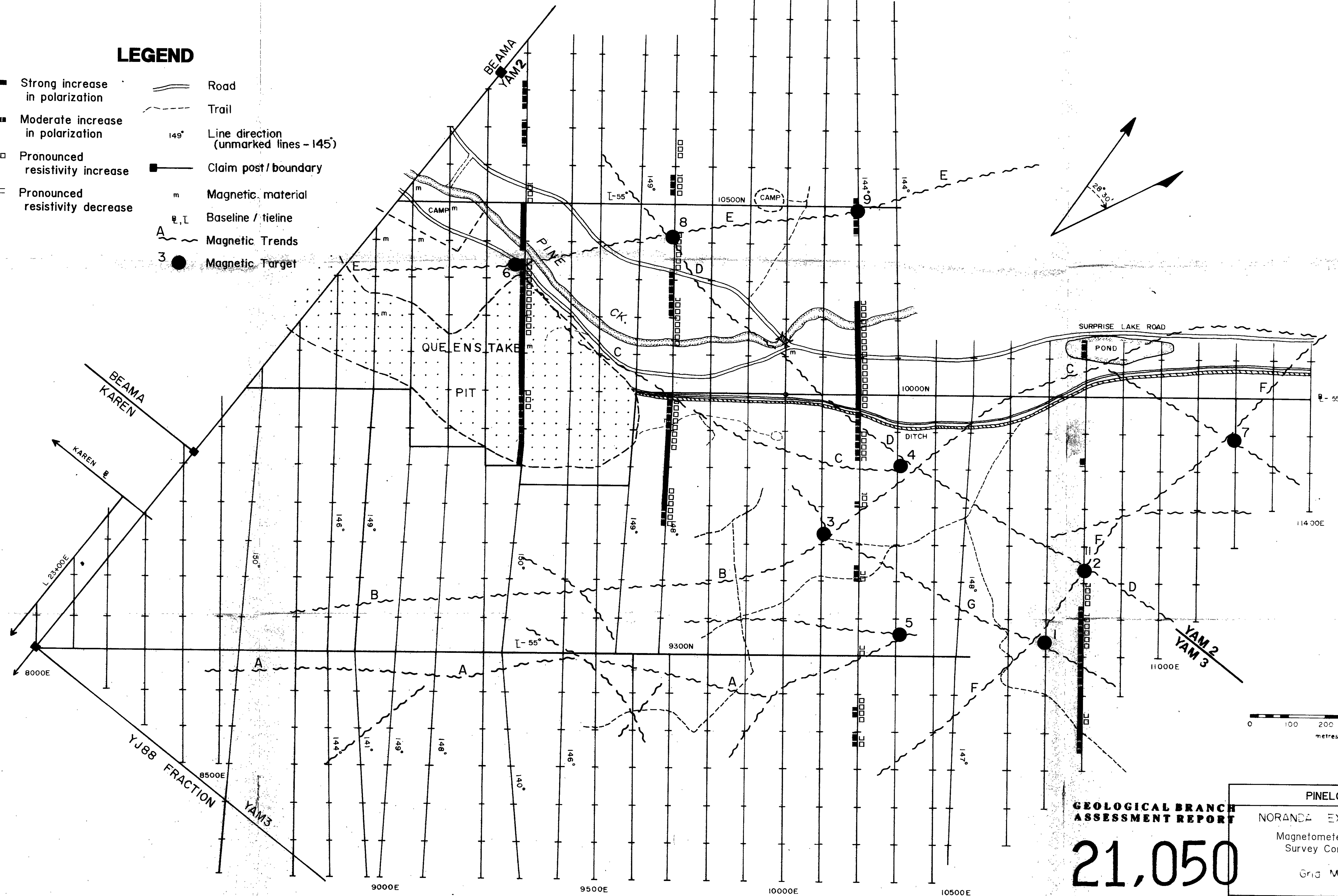
See base

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Au*	Hg
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb	ppb
011362 DR	1	45	7	25	.1	24	14	254	2.32	3	5	ND	1	8	.2	2	2	59	1.24	.026	2	27	.70	30	.16	2	.88	.06	.07	1	6	5
011363 DR	1	63	7	24	.1	33	15	295	2.73	2	5	ND	1	9	.3	2	2	67	1.24	.029	2	48	1.04	14	.18	2	1.19	.07	.04	1	2	10
011364 DR	1	60	7	22	.1	24	13	278	2.51	2	5	ND	1	14	.2	2	2	60	1.40	.040	2	43	.91	16	.21	2	1.07	.06	.04	5	3	10
011365 DR	1	68	3	25	.1	27	14	322	2.57	9	5	ND	1	23	.2	3	2	68	2.07	.024	2	53	1.02	19	.22	3	1.17	.04	.06	1	4	5
011366 DR	1	66	2	31	.1	32	17	442	3.30	7	5	ND	1	33	.2	2	2	98	3.49	.032	2	62	1.29	10	.32	2	1.55	.05	.03	1	7	20
011367 DR	1	65	2	40	.2	28	18	399	3.54	9	5	ND	1	27	.2	2	2	95	2.59	.028	2	48	1.18	22	.27	12	1.53	.06	.07	1	4	10
011368 DR	1	55	6	33	.1	63	16	387	2.82	7	5	ND	1	22	.2	2	2	69	2.51	.034	2	139	1.77	16	.23	2	1.92	.04	.04	1	2	5
011369 DR	1	15	7	30	.1	103	16	357	2.58	7	5	ND	1	21	.2	3	2	54	2.18	.037	3	229	2.71	13	.16	2	2.22	.04	.03	1	4	5
011370 DR	1	25	2	24	.1	87	13	226	1.82	5	5	ND	1	17	.7	2	2	35	1.34	.037	3	161	1.79	19	.14	2	1.50	.05	.04	1	4	5
011371 DR	1	4	6	30	.1	98	19	554	3.14	15	5	ND	1	46	.2	2	2	115	4.32	.017	2	263	3.65	11	.15	2	2.56	.02	.02	1	18	5
011372 DR	1	15	8	20	.1	87	15	324	1.86	13	5	ND	1	24	.2	2	2	57	2.48	.018	2	215	2.48	7	.09	2	1.54	.03	.02	1	6	5
011373 DR	2	9	4	31	.1	126	18	356	2.40	12	5	ND	1	21	.3	2	3	51	2.36	.031	2	280	3.07	12	.09	2	2.10	.05	.03	1	5	5
011374 DR	1	66	2	35	.2	43	18	312	2.86	7	5	ND	1	11	.2	2	2	80	1.63	.038	2	50	1.07	44	.21	5	1.27	.10	.11	1	7	5
011375 DR	1	57	7	39	.2	48	19	419	3.49	12	5	ND	1	15	.2	2	2	85	1.98	.034	2	64	1.51	52	.16	6	1.50	.07	.11	1	1	10
011376 DR	2	69	4	37	.1	56	18	374	2.83	5	5	ND	1	7	.2	2	2	68	1.02	.039	3	48	1.23	81	.19	2	1.27	.05	.10	2	2	20
011377 DR	1	58	7	38	.2	34	20	453	3.49	7	5	ND	1	13	.2	3	2	95	1.57	.037	2	43	1.19	69	.18	6	1.37	.10	.13	1	2	10
011378 DR	1	48	3	36	.1	24	19	320	3.09	3	5	ND	1	9	.2	2	2	91	1.41	.039	2	30	.96	89	.18	3	1.19	.09	.16	1	2	5
011379 DR	1	58	3	34	.1	36	19	354	3.11	2	5	ND	1	9	.2	2	2	83	1.35	.039	2	42	1.15	74	.19	4	1.30	.10	.12	1	3	10
011380 DR	1	58	4	23	.1	28	16	283	2.82	2	5	ND	1	9	.2	2	2	75	1.19	.032	2	48	1.06	99	.17	2	1.25	.08	.15	1	3	5
011381 DR	1	56	2	40	.1	36	20	351	3.75	7	5	ND	1	18	.2	2	2	97	1.89	.037	2	51	1.37	47	.16	2	1.36	.08	.09	2	7	5
011382 DR	1	63	2	44	.2	61	24	375	4.13	4	5	ND	1	14	.2	2	2	99	1.55	.029	2	81	1.69	125	.19	3	1.61	.08	.17	1	8	5
011383 DR	1	70	17	40	.1	77	28	392	4.83	5	5	ND	1	15	.2	2	2	95	1.73	.019	2	100	1.80	105	.20	2	1.63	.07	.17	1	4	20
011384 DR	1	73	6	33	.1	78	29	331	4.48	4	5	ND	1	9	.2	2	2	77	1.23	.017	2	97	1.47	89	.20	2	1.42	.08	.14	1	5	10
011385 DR	1	60	6	40	.2	60	24	370	3.78	7	5	ND	1	12	.2	2	2	82	1.82	.030	2	69	1.46	148	.20	2	1.51	.10	.21	2	72	10
011386 DR	1	56	3	29	.1	39	18	317	2.79	2	5	ND	1	11	.4	2	2	71	1.53	.033	2	50	1.09	69	.19	2	1.25	.10	.14	2	14	5
011387 DR	1	60	2	25	.1	37	16	310	2.60	2	5	ND	1	9	.2	2	2	63	1.06	.029	2	49	1.11	75	.18	2	1.30	.09	.18	1	3	20
011388 DR	3	62	5	47	.1	45	15	477	2.36	2	5	ND	1	9	.7	2	2	62	1.01	.030	4	39	.81	73	.18	2	.99	.06	.20	1	5	5
011389 DR	1	58	10	20	.1	41	20	340	2.77	2	5	ND	1	7	.2	2	2	65	1.05	.033	2	44	.95	108	.21	2	1.16	.07	.24	1	4	5
011390 DR	8	61	6	81	.1	37	11	639	2.60	2	5	ND	3	7	.5	2	2	63	.99	.027	7	41	.77	105	.18	2	.88	.03	.36	2	3	20
011391 DR	5	58	8	49	.1	54	14	340	2.28	2	5	ND	2	7	.4	2	2	55	.91	.030	6	45	.75	80	.18	3	.87	.05	.19	3	1	10
011392 DR	1	65	11	29	.2	41	21	308	3.12	4	5	ND	1	7	.2	2	3	76	1.11	.036	2	36	.90	72	.21	3	1.13	.09	.18	2	2	5
011393 DR	1	59	8	46	.1	24	22	364	4.24	3	5	ND	1	7	.2	2	2	132	1.39	.060	2	19	.95	84	.33	2	1.34	.08	.31	2	4	10
011394 DR	1	74	5	33	.2	29	14	337	2.66	4	5	ND	1	10	.3	2	3	78	1.75	.039	2	48	1.08	14	.23	2	1.29	.09	.06	1	6	20
011395 DR	1	62	8	31	.2	47	16	433	2.82	3	5	ND	1	10	.2	2	3	76	1.39	.038	2	72	1.42	26	.21	3	1.59	.10	.07	2	5	10
011396 DR	1	48	7	24	.2	34	14	340	2.25	3	5	ND	1	12	.6	2	2	68	1.60	.039	2	47	.91	23	.23	2	1.26	.11	.06	5	4	5
011397 DR	5	70	6	24	.1	42	46	279	2.65	2	5	ND	1	7	.2	2	2	69	1.20	.041	2	51	.89	20	.21	3	1.18	.09	.08	84	2	5
STANDARD C/AU-R	18	58	44	133	6.8	68	31	1052	3.84	39	19	6	37	48	17.9	15	22	57	.49	.091	37	52	.87	174	.09	33	1.87	.06	.14	11	510	1300

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	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Hg ppb
1398 DR	1	77	2	18	.1	26	14	251	2.12	3	5	ND	1	9	.2	2	2	64	1.32	.035	2	27	.71	11	.24	2	1.12	.09	.05	4	2	10
1399 DR	1	64	2	23	.1	30	14	274	2.09	4	5	ND	1	8	.2	2	2	64	1.17	.036	2	27	.76	8	.24	3	1.06	.07	.04	6	17	20
1400 DR	2	59	5	25	.1	33	32	264	2.47	2	5	ND	1	7	.2	3	2	72	1.12	.035	2	36	.81	16	.22	2	1.11	.08	.11	91	1	20
1401 DR	1	60	2	23	.1	30	13	261	2.18	2	5	ND	1	8	.2	2	2	61	1.07	.030	2	37	.87	6	.23	2	1.24	.08	.05	10	1	10

LEGEND

- Strong increase in polarization
- Moderate increase in polarization
- Pronounced resistivity increase
- Pronounced resistivity decrease
- Road
- - - Trail
- 149° Line direction (unmarked lines - 145°)
- Claim post / boundary
- m Magnetic material
- Baseline / tieline
- A Magnetic Trends
- 3 ● Magnetic Target


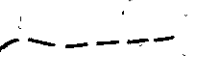
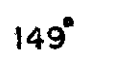






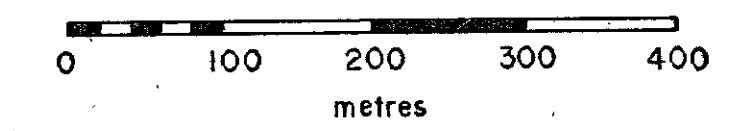
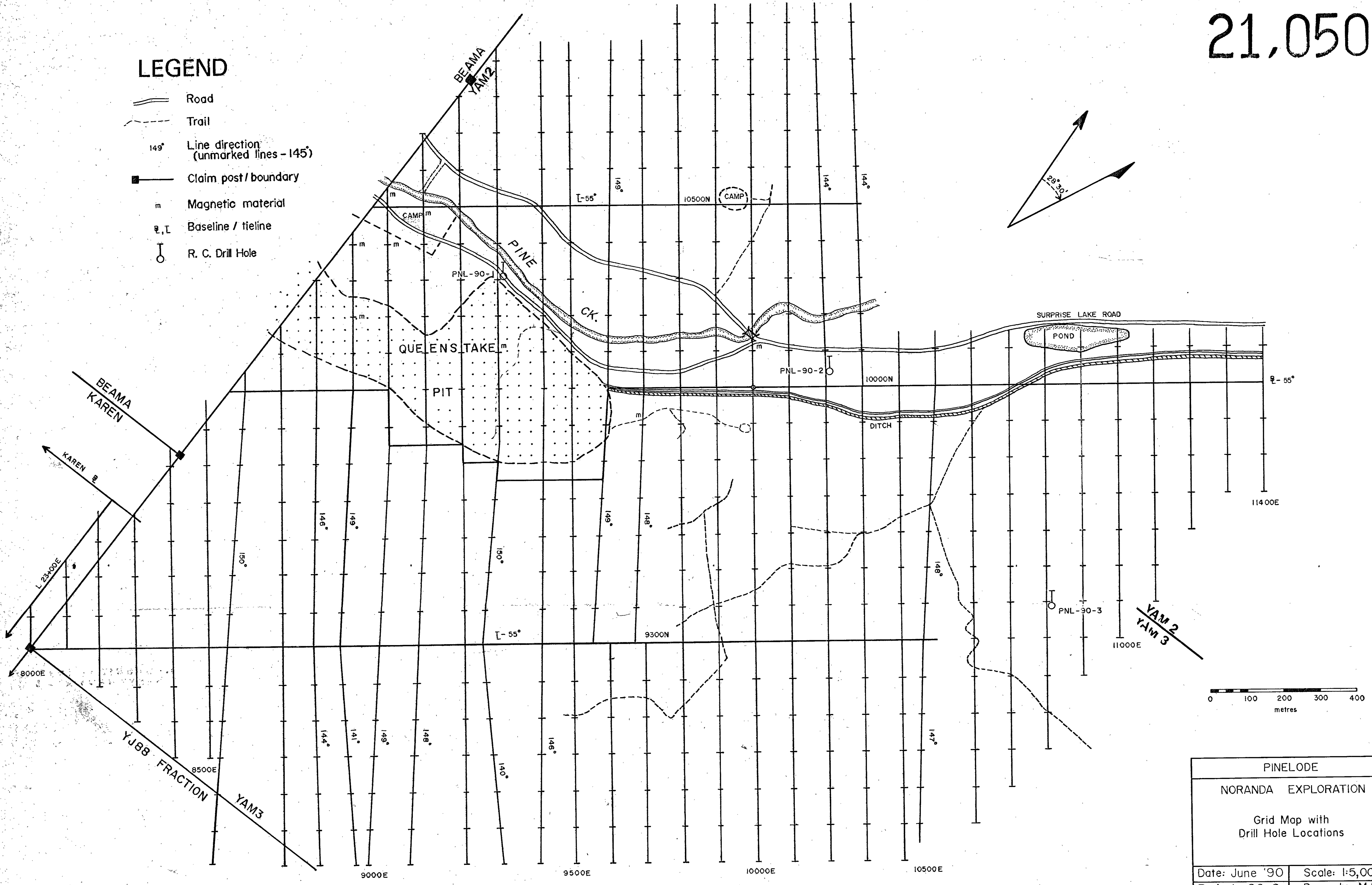
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,050

PINELODE	
NORANDA EXPLORATION	
Magnetometer and I.P. Survey Compilation	
Grid Map	
Date: June 1990	Scale: 1:5,000
Project: 90-2	Drawn by: M.A.P.

LEGEND

-  Road
-  Trail
-  149° Line direction (unmarked lines - 145°)
-  Claim post/boundary
-  m Magnetic material
-  B, L Baseline / tieline
-  R. C. Drill Hole



PINELODE	
NORANDA EXPLORATION	
Grid Map with Drill Hole Locations	
Date: June '90	Scale: 1:5,000
Project: 90-2	Drawn by: M.A.P.

900ELEV

9300E

PNL90-1(0.0N)

900ELEV

ovbr

int

875ELEV

GEOLOGICAL BRANCH ASSESSMENT REPORT

875ELEV

21,050

Data Presentation : Geology

ovbr = Overburden
int = Intrusive

50m
EDH PNL90-1(50.0, 20.5N)

9300E



REVISED	PINELODE	
	DDH PNL90-1	
	Vertical E-V Section Looking North	
	Section 10305N	Section Thickness : 50m
	File : PNL90-1.3V5	
DATE:	REVISED BY:	DATE:
	REVISED BY: [Signature]	DATE: 1/27/93
DWG.No.	NORANDA EXPLORATION COMPANY, LIMITED	
	OFFICE: Whitehorse	

925ELEV

10800E

10825E

925ELEV

PNL90-3(0.0N)

ovbr

ande

900ELEV

900ELEV

int

50m

EDH PNL90-3(50.0, 20.5N)

875ELEV

875ELEV

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,050

Data Presentation : Geology

ovbr = Overburden
ande = Andesite
int = Intrusive

REVISED	PINELODE	
	DDH PNL90-3	
	Vertical E-W Section Looking North	
	Section 9395N Section Thickness : 50m	
	File : PNL90-3.DWG	
PROJECT	SURVEY BY	DATE June 20/98
NTS	DRAWN BY GMS/AutoCAD (R. Finlay)	SCALE 1:250
DWG.No.	NORANDA EXPLORATION COMPANY, LIMITED	
	OFFICE: Whitehorse	

10800E

10825E

900ELEV

875ELEV

850ELEV

10200E

10200E

10225E

10225E

900ELEV

875ELEV

850ELEV

PNL 90-2(0.0N)

ovbr

ande

50m

EDH PNL 90-2(60.0, 24.6N)

GEOLOGICAL BRANCH ASSESSMENT REPORT

21,050

Data Presentation : Geology

ovbr = Overburden
ande = Andesite



REVISED	PINELODE	
	DDH PNL90-2	
	Vertical E-W Section Looking North	
	Section 10040N	Section Thickness : 50m
	File : PNL90-2.DWG	
PROJECT	SURVEY BY	DATE
DATE	DRAWN BY	SCALE
DWG.No.	NORANDA EXPLORATION COMPANY, LIMITED	
	OFFICE:	Whitehorse