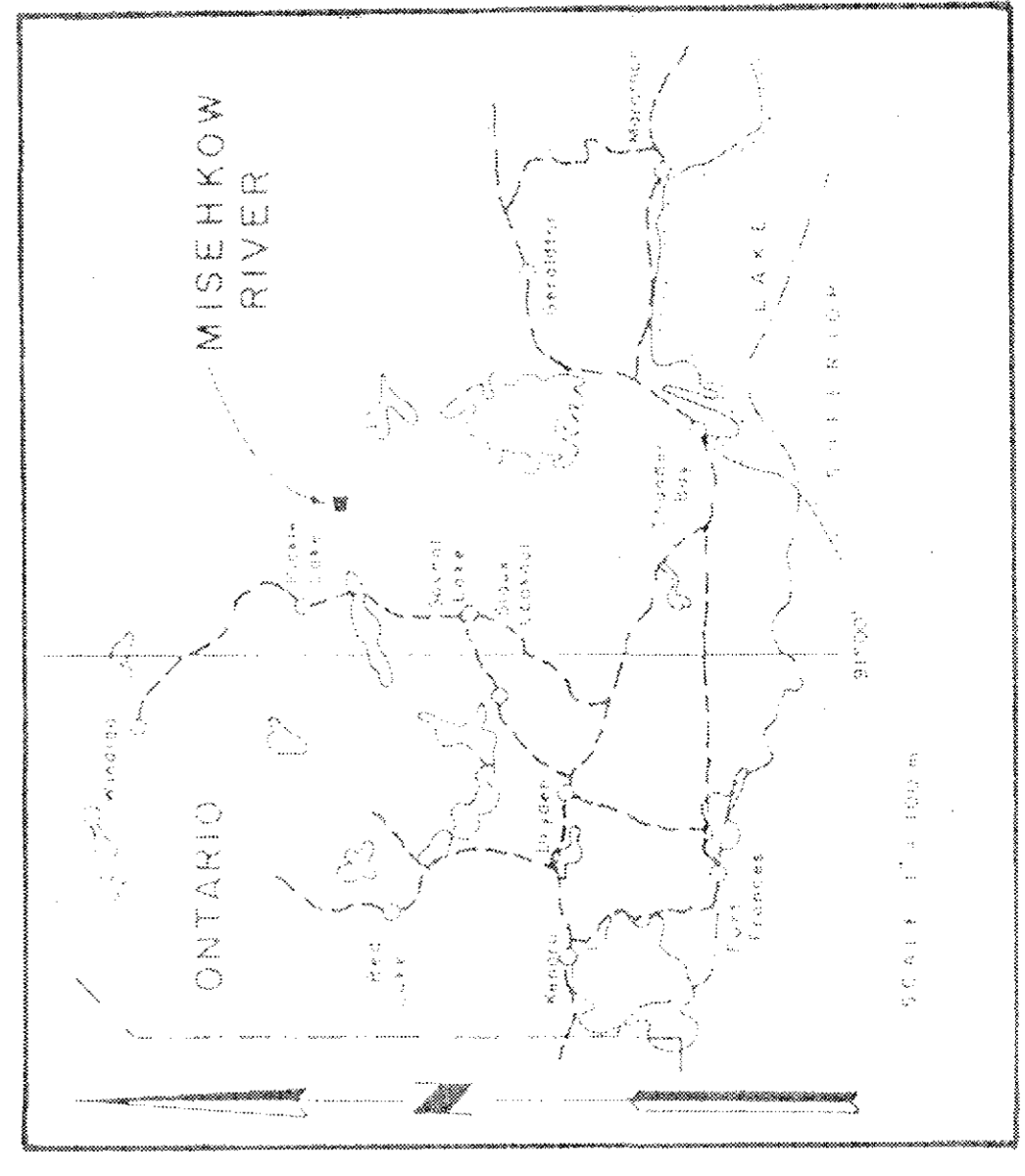


DRILLHOLE	INTERCEPT (F.T.)	Au (oz. / ton)
5	and 42.3	0.050
6	2.6	0.039
7	and 20.3 incl. 10.5	0.056
8	3.9	0.056
9	and 15.7	0.060
11	6.6	0.121
12	2.3 and 7.5	0.363 0.062

LEGEND

- LAKE OR RIVER SHORE
- CREEK
- BEAVER DAM AND POND
- SWAMP (OPEN)
- SWAMP (TREE)
- CLIFF
- CLAIM POST AND CLAIM LINE
- CUT PICKET LINE WITH 12.5 METRE STATIONS
- ROCK SAMPLE NUMBER, (Au content in ppt)
- SOIL SAMPLE NUMBER, (Au content in ppt)
- ROCK CHIP SAMPLE, (Au content in ppt)
- OUTLINE OF STRIPPED AREA
- 1988 DIAMOND DRILL HOLE COLLAR LOCATION WITH SURFACE PROJECTION



ONTARIO GOLD JOINT VENTURE
 NORTHERN DYNASTY EXPLORATIONS LTD
 MISEHKOW RIVER CLAIM BLOCK

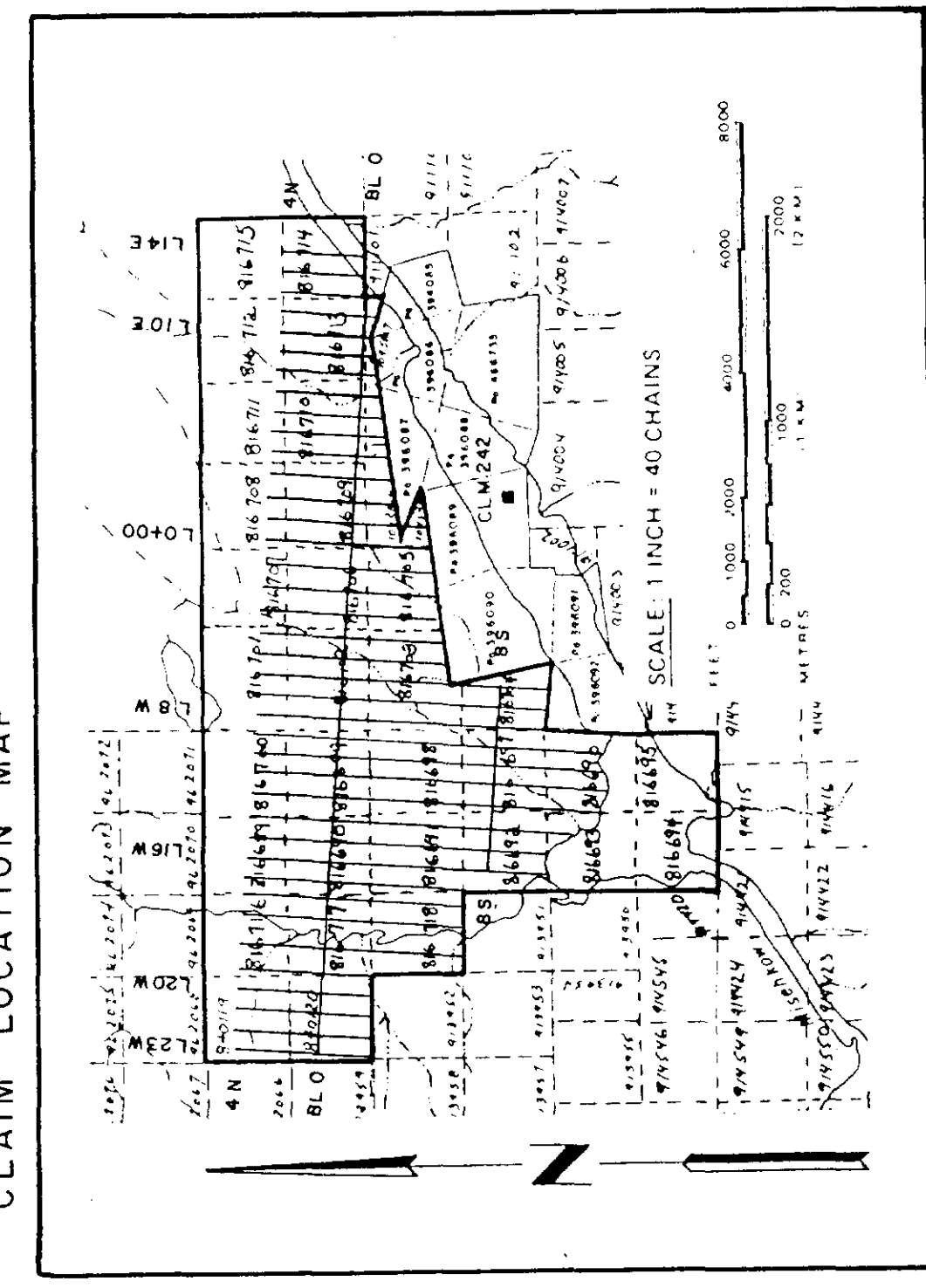
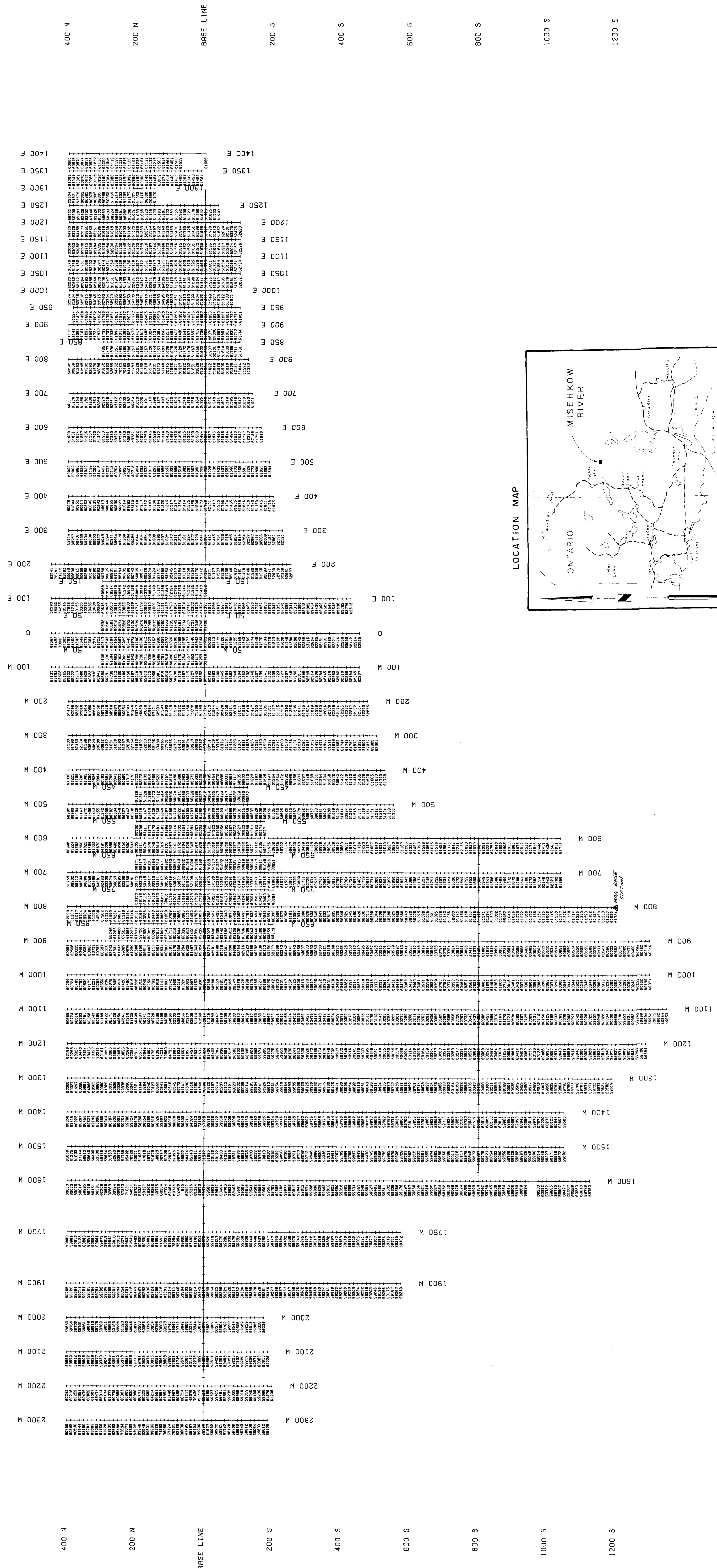
GOLD GEOCHEMISTRY

NIS 52 P4 CLAIM MAP 0-1820

SCALE 1:5000

0188-2-C-062

63.5466

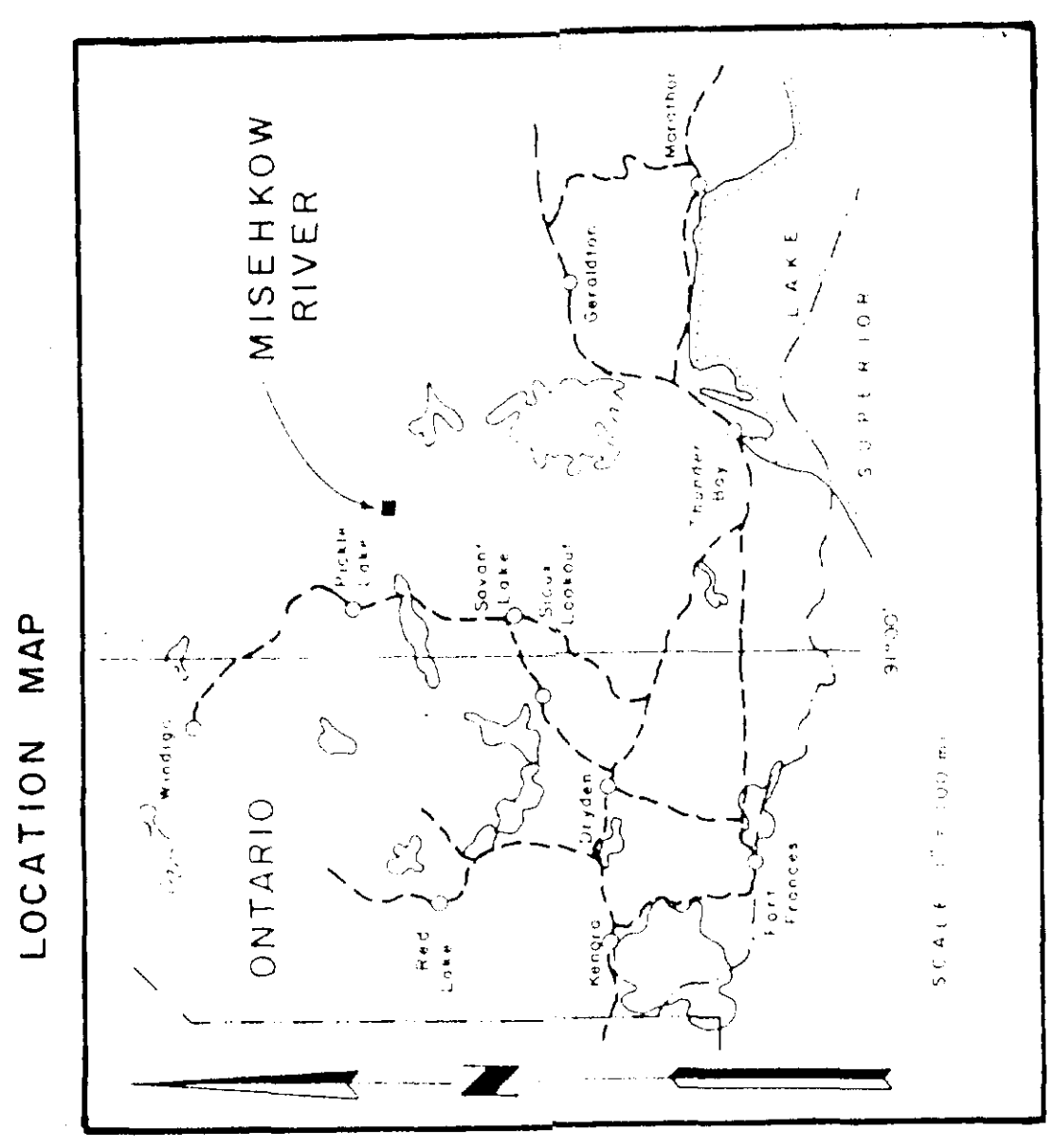


LEGEND

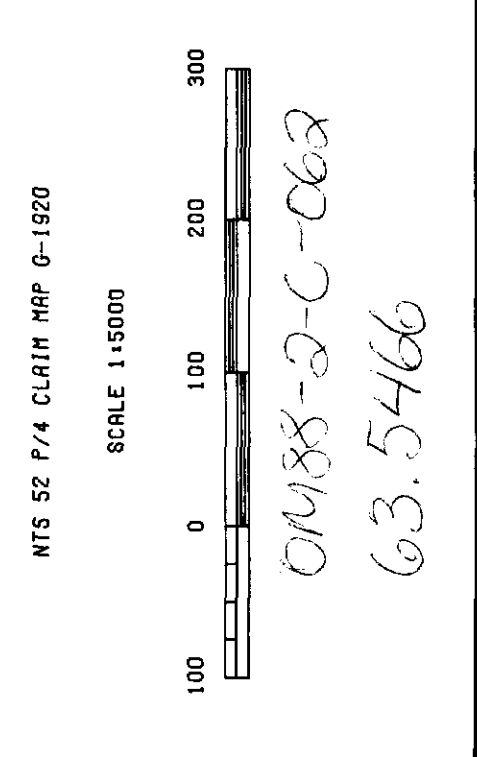
CUT LINES WITH STATIONS AT 12.5 METRES

MAGNETIC POSTING TO LEFT IN GRAMMS

INSURUMENT USED - SCINTREX MFD-2
DIGITAL FLUXGATE MAGNETOMETER

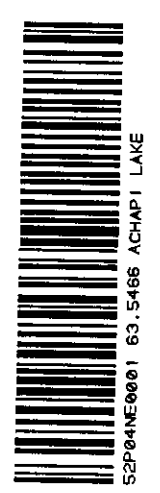


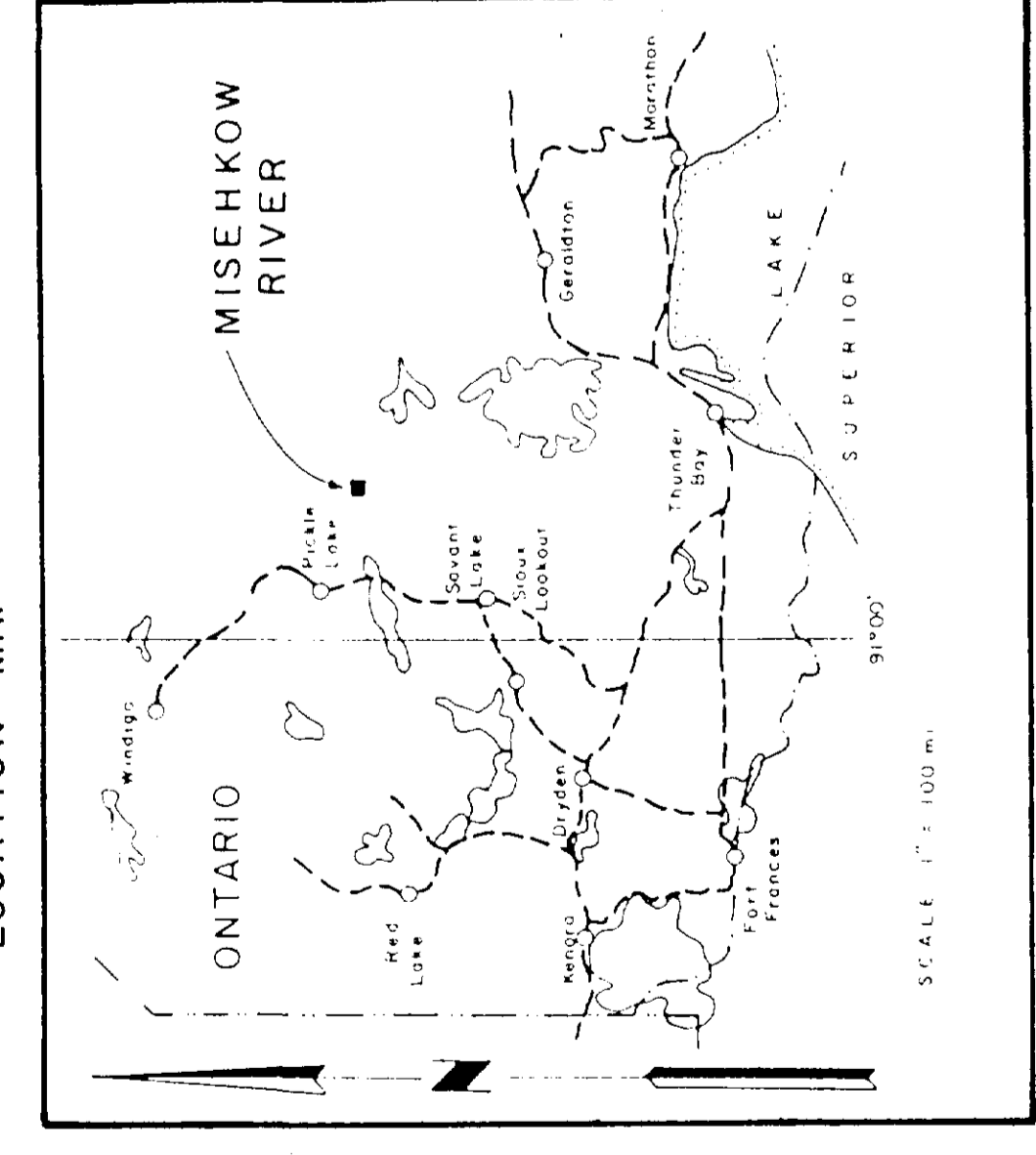
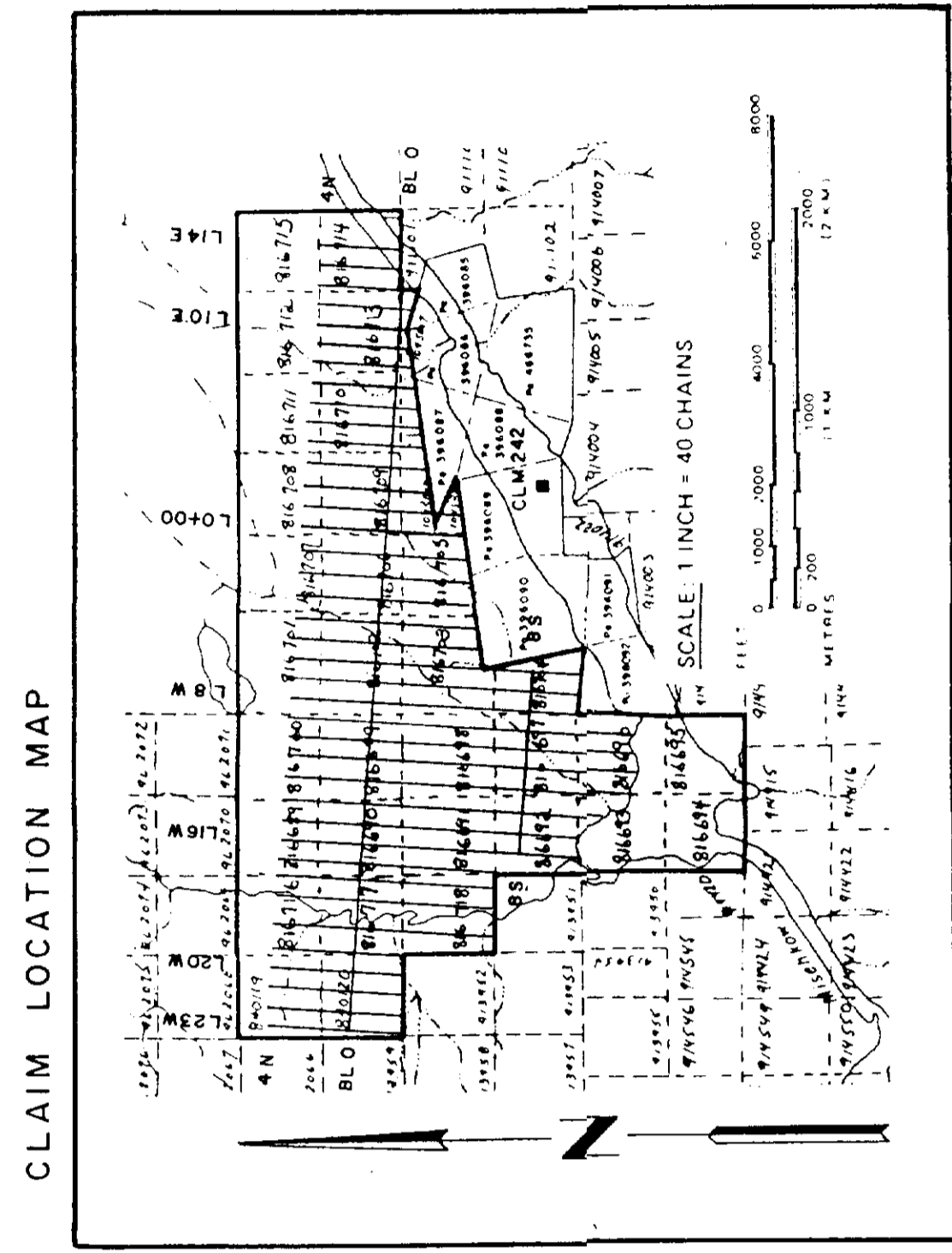
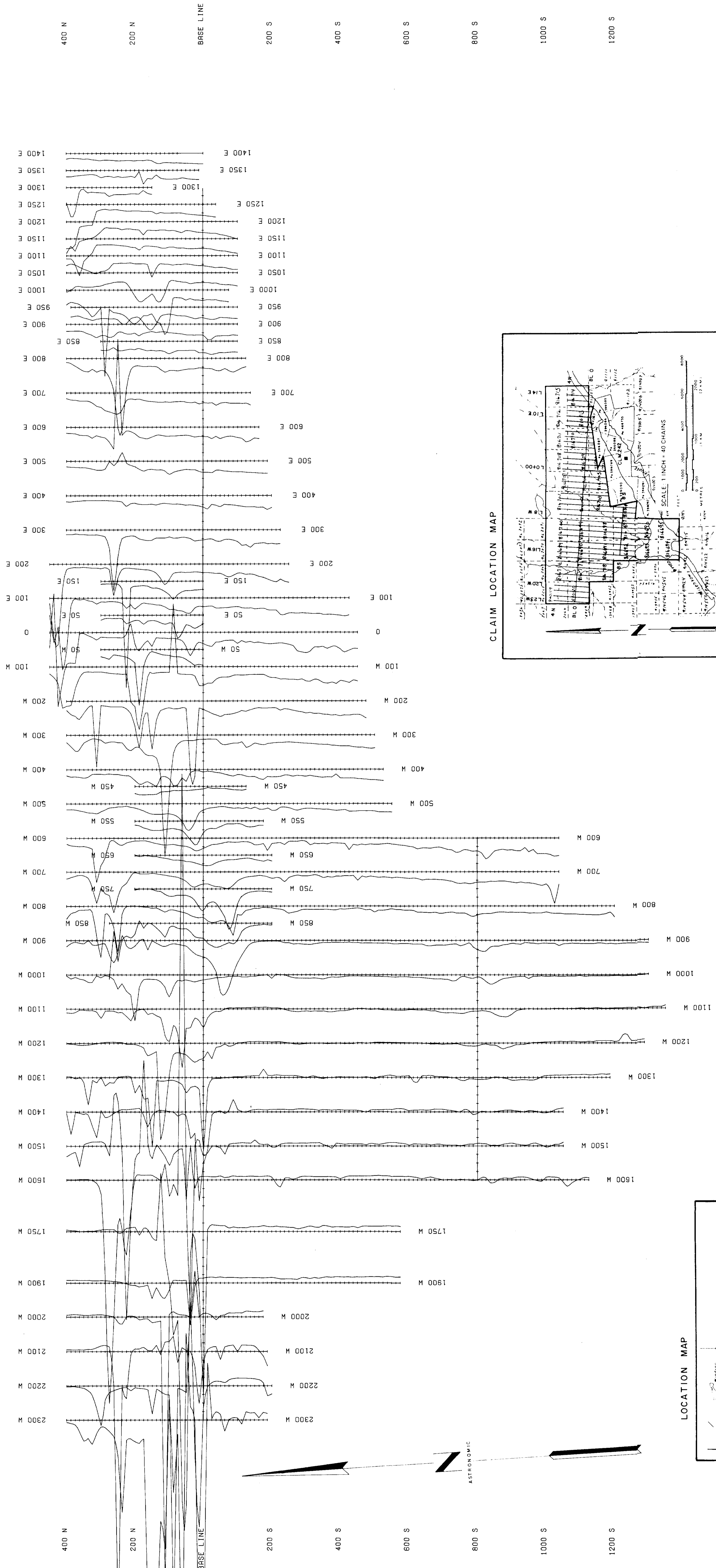
ONTARIO GOLD JOINT VENTURE
NORTHERN DYNASTY EXPLORATIONS LTD
MISEHKOW RIVER CLAIM BLOCK
GROUND MAGNETOMETER
VERTICAL FIELD - POSTING



MAY - JULY 1988

PLATE 3

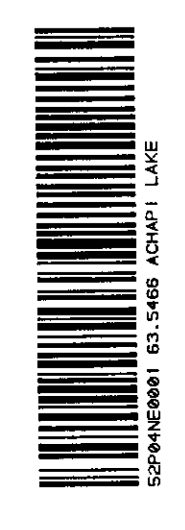
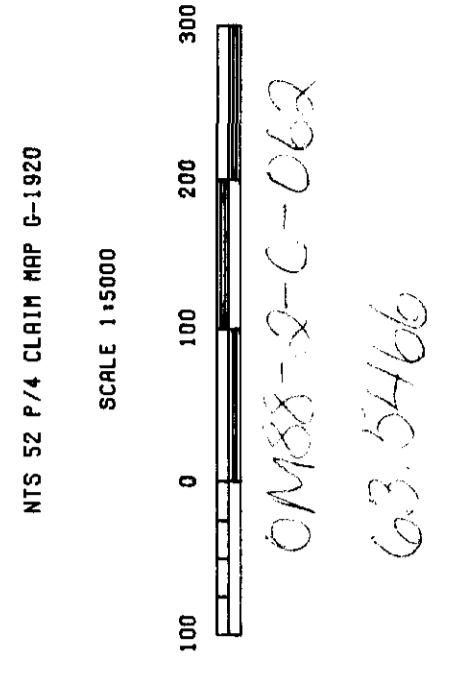


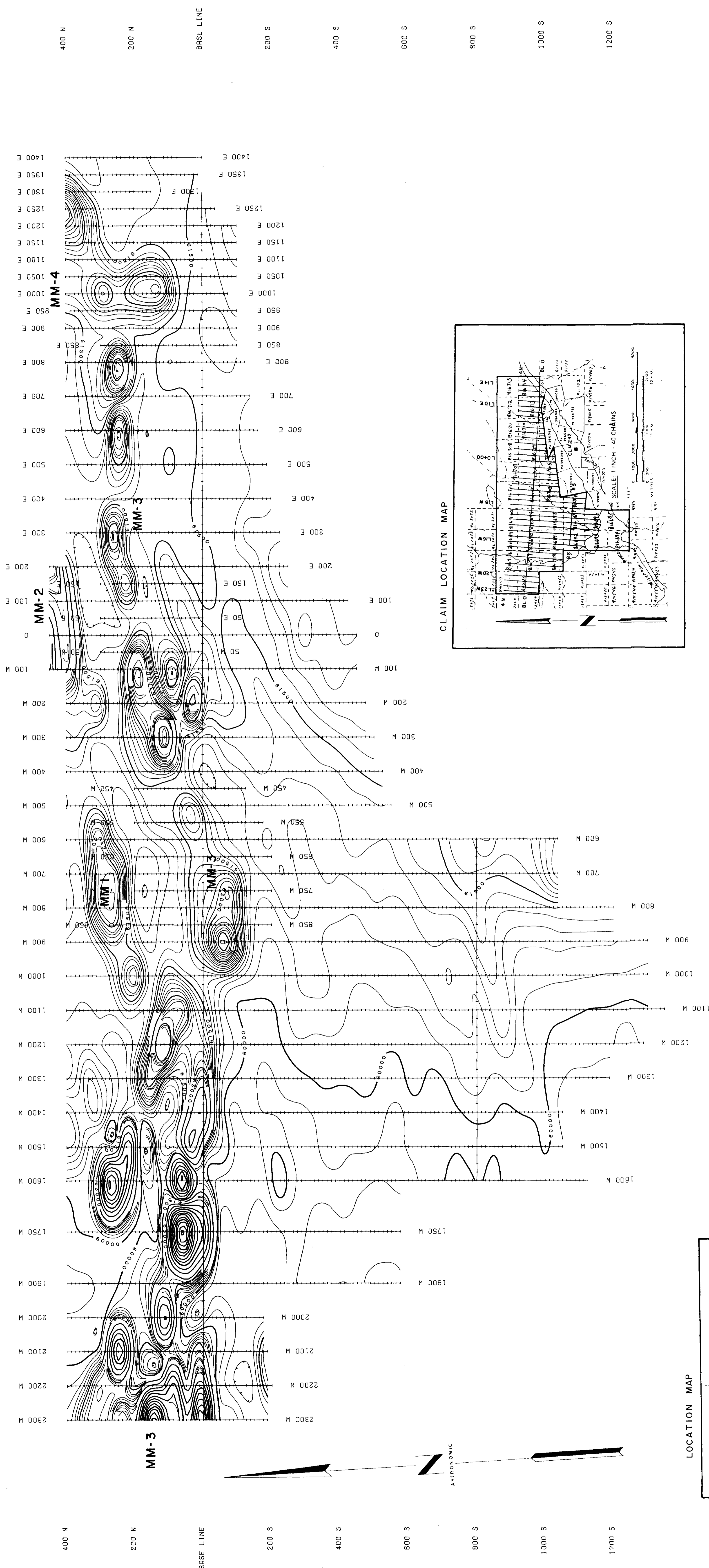


LEGEND

CUT LINES WITH STATIONS AT 12.5 METRES
 PROFILES POSITIVE TO LEFT
 CUT LINES : 100 CHAINS / 250 CHAINS / CH
 BASE VALUE : 60000 SHIMMS
 INSTRUMENT USED : SCINTREX MPD-2
 DIGITAL FLUXGATE MAGNETOMETER

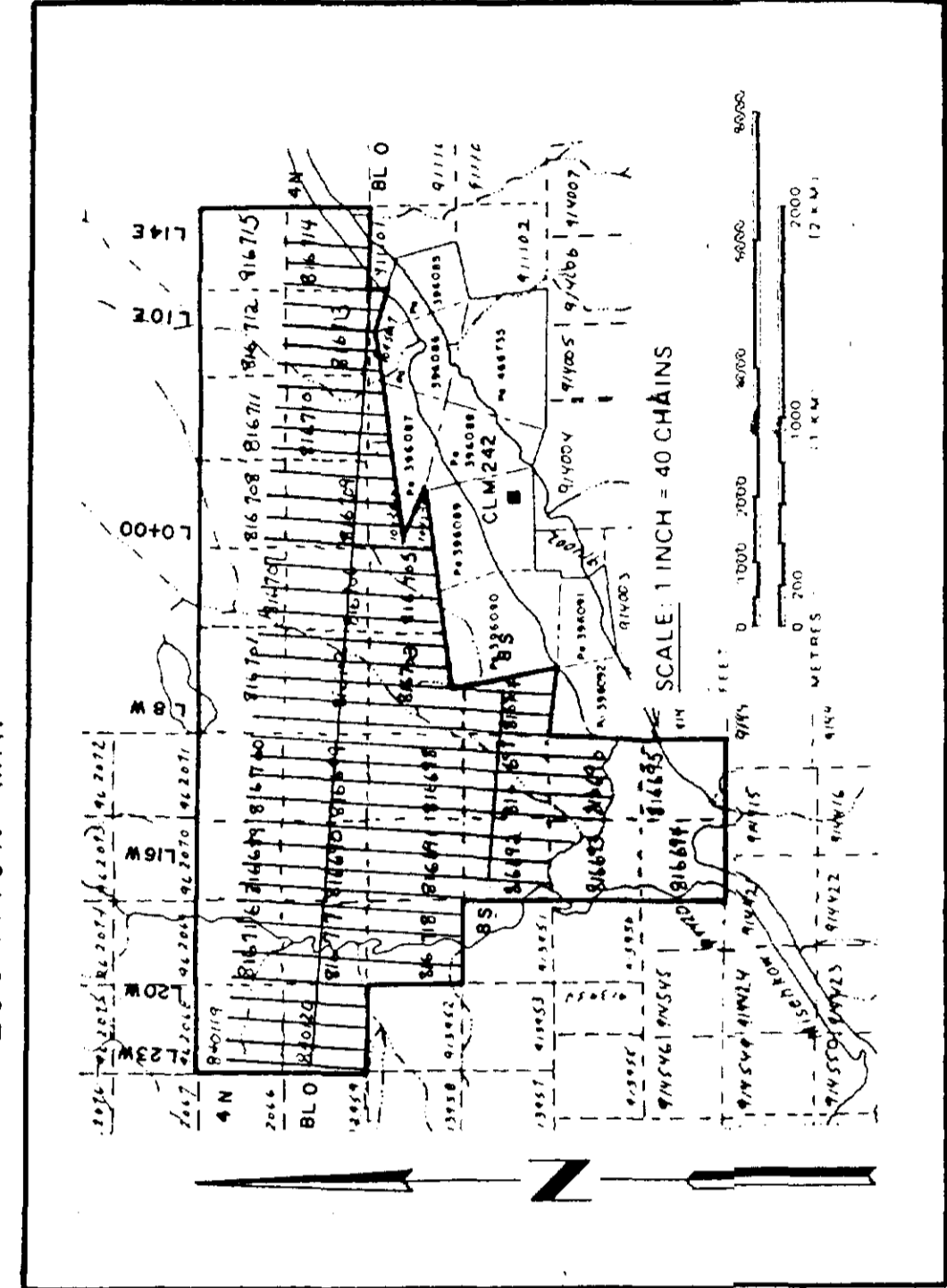
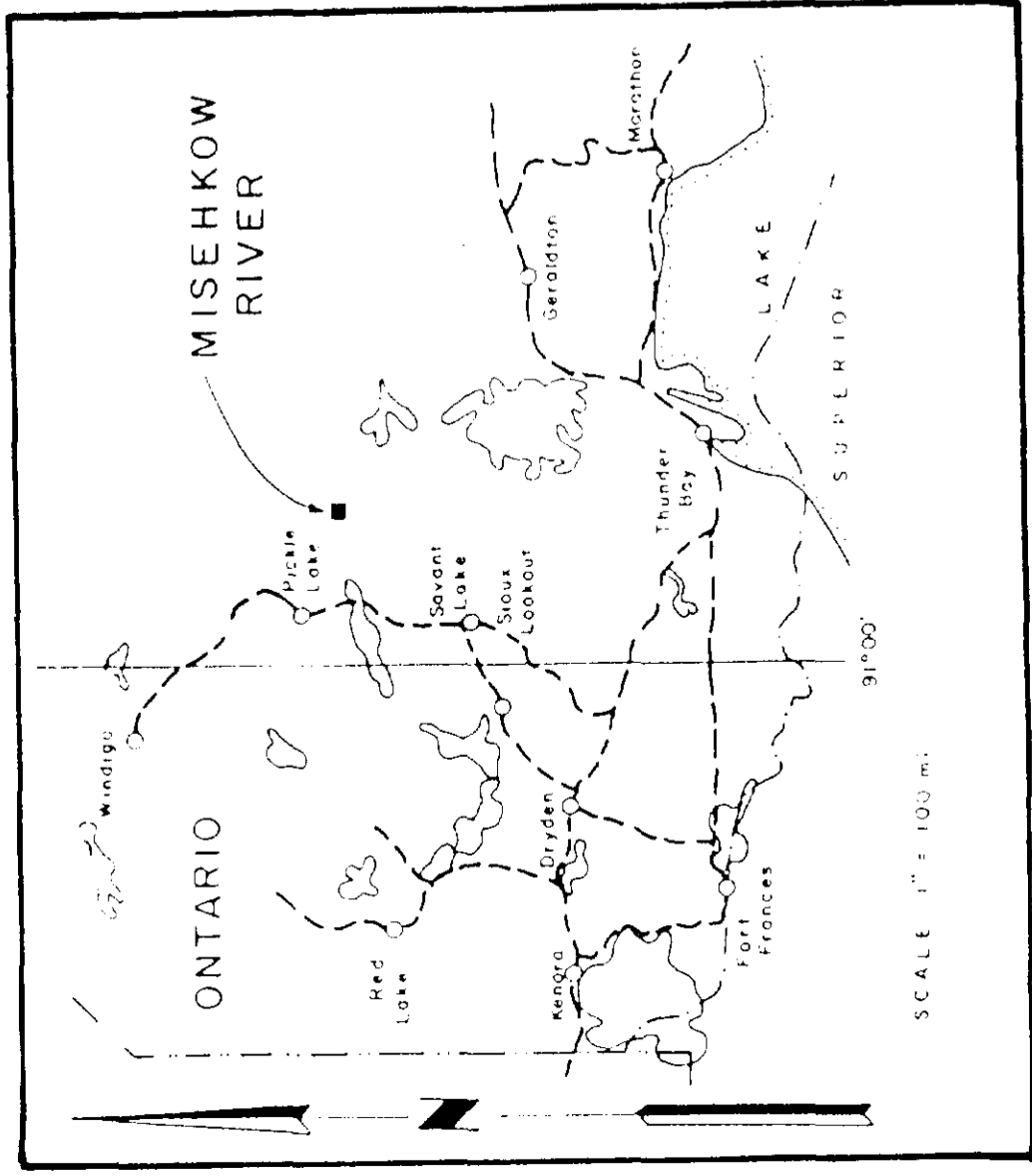
ONTARIO GOLD JOINT VENTURE
 NORTHERN DYNASTY EXPLORATIONS LTD
 MISEHKOW RIVER CLAIM BLOCK
GROUND MAGNETOMETER
VERTICAL FIELD - PROFILES



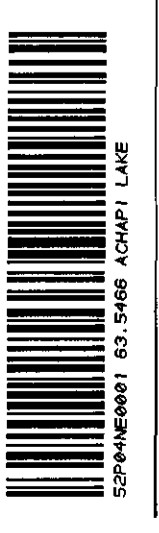
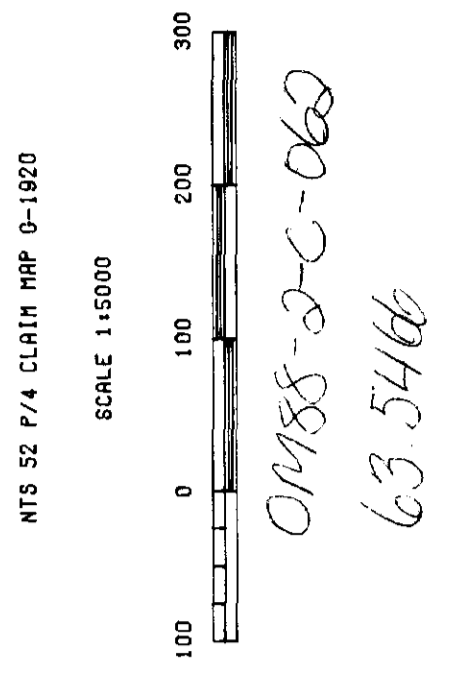


LEGEND

- CUT LINES WITH STATIONS AT 12.5 METRES
- CONTOUR INTERVAL 500 GAUSS
- CONTOUR CUT OFF INTERVAL 150 GAUSS
- PASTED CONTOUR INTERVAL 7500 GAUSS
- INSTRUMENT USED - SCINTREX MFD-2 DIGITAL FLUXGATE MAGNETOMETER
- MM MAGNETIC ANOMALIES

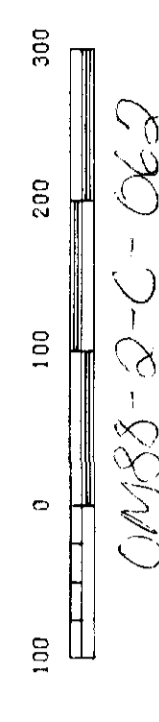


ONTARIO GOLD JOINT VENTURE
 NORTHERN DYNASTY EXPLORATIONS LTD
 MISEHKOW RIVER CLAIM BLOCK
GROUND MAGNETOMETER
VERTICAL FIELD CONTOURS



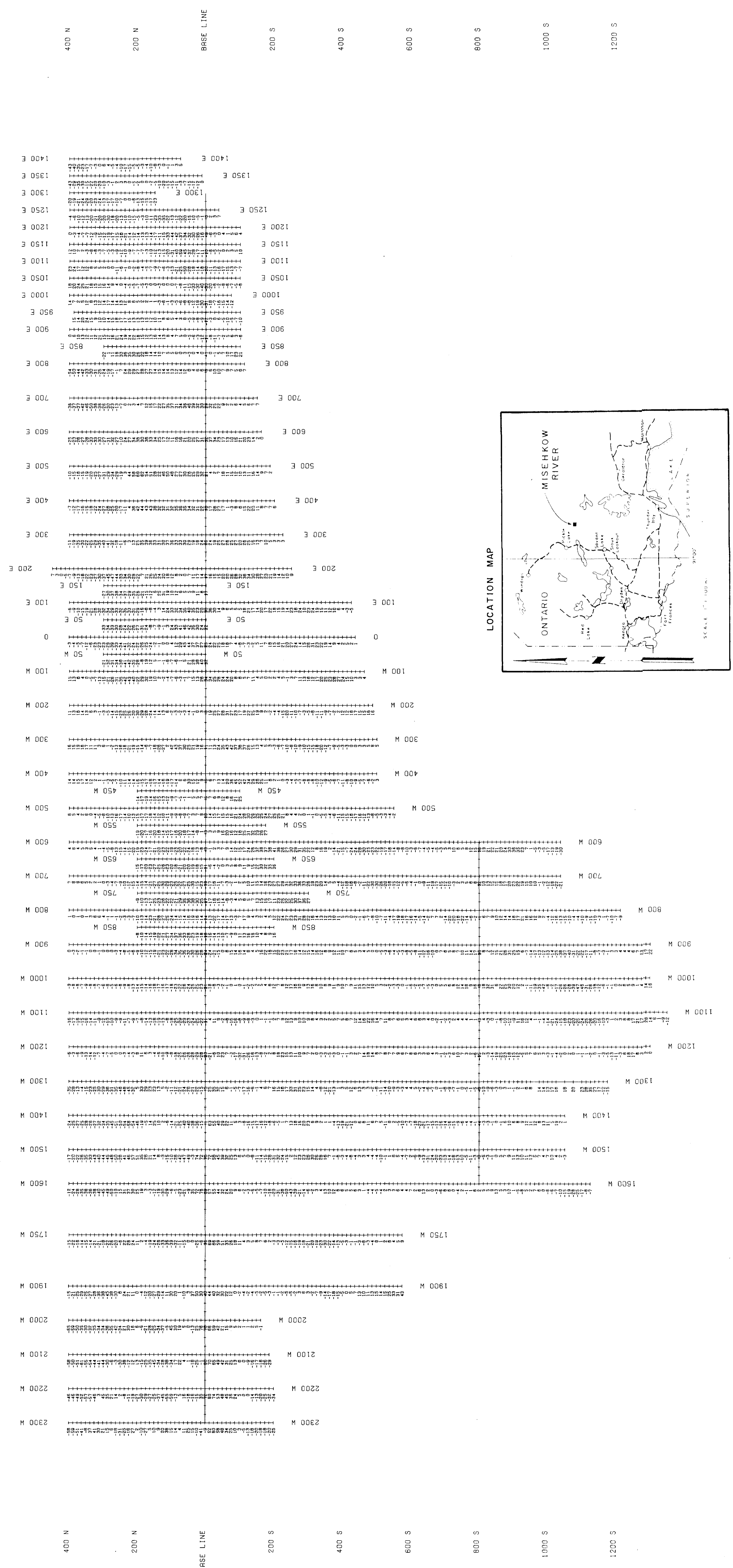
ONTARIO GOLD JOINT VENTURE
 NORTHERN DYNASTY EXPLORATIONS LTD
 MISEHKOW RIVER CLAIM BLOCK
 GROUND VLF-EM (SEATTLE NLK)
 DIP ANGLE - POSTING

NYS SE P/A CLAIM MAP 0-1820
 SCALE 1:45200



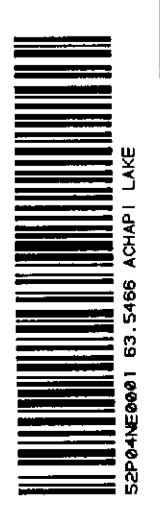
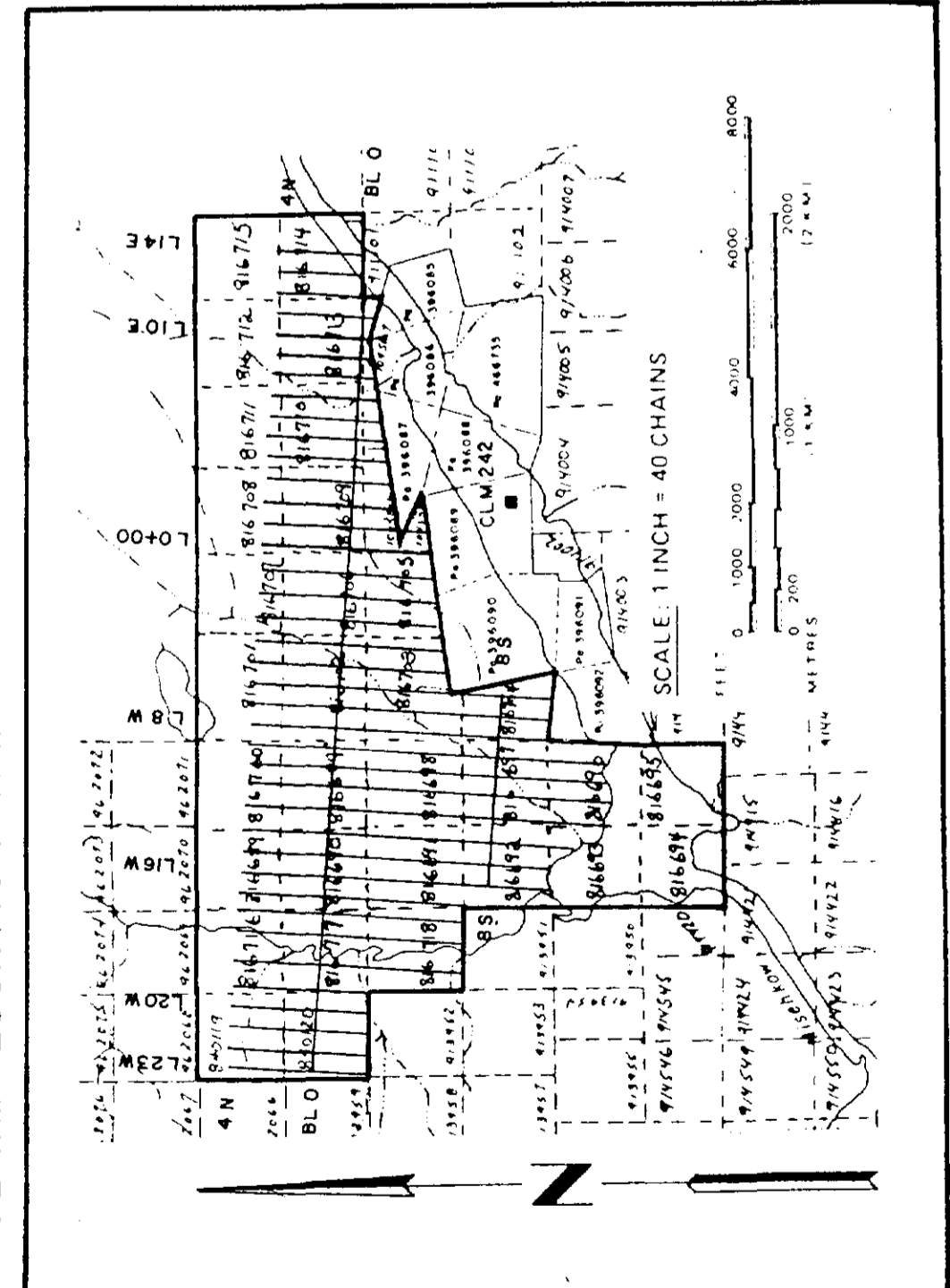
CM88-D-C-062
 63.5466

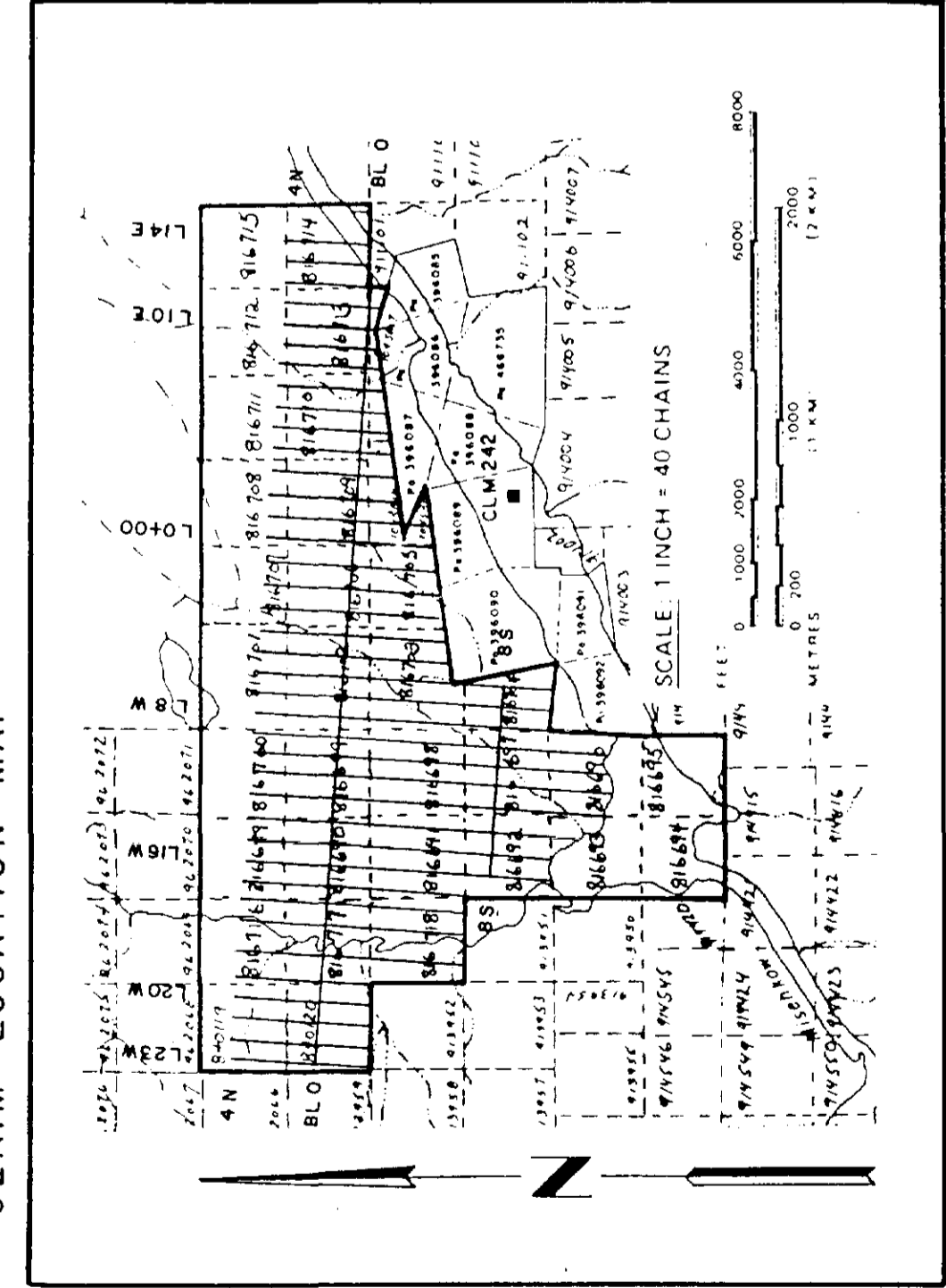
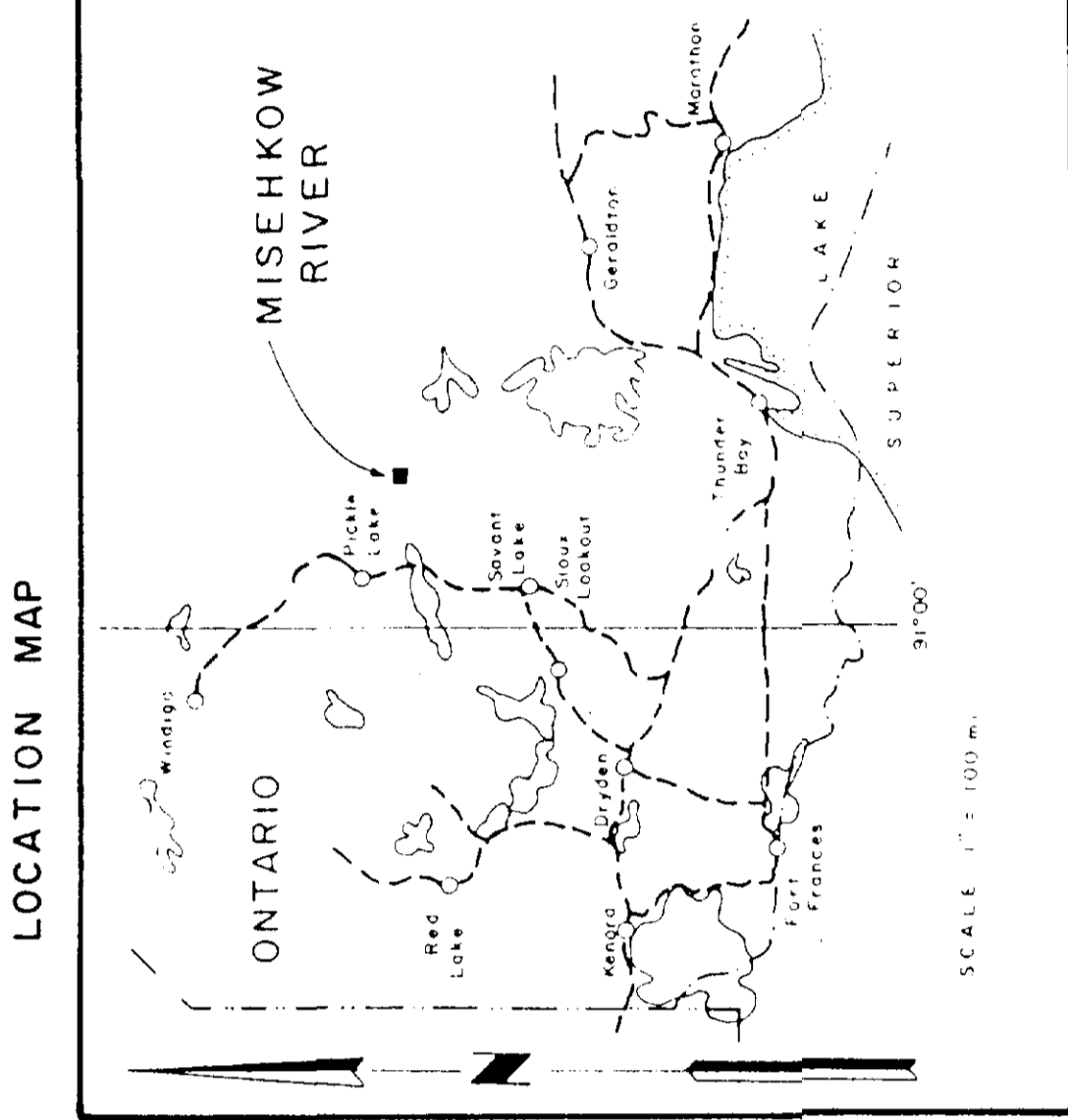
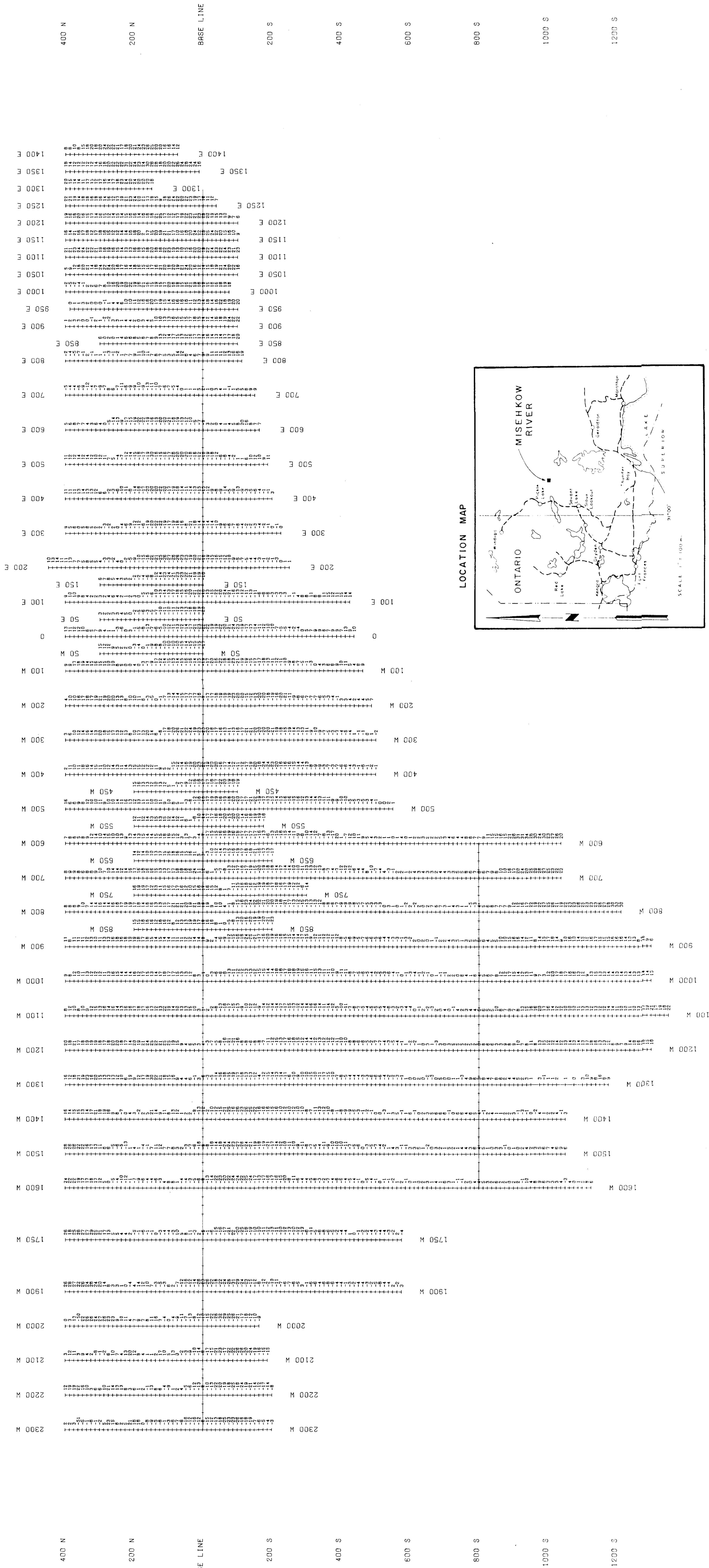
MAY - JULY 1988



LEGEND

- CUT LINES WITH STATIONS AT 12.5 METRES
- DIP ANGLE POSTING TO LEFT IN DEG
- ALL READINGS TAKEN FACING NORTH
- INSURGENT USED : GEONICS EM-16 VLF

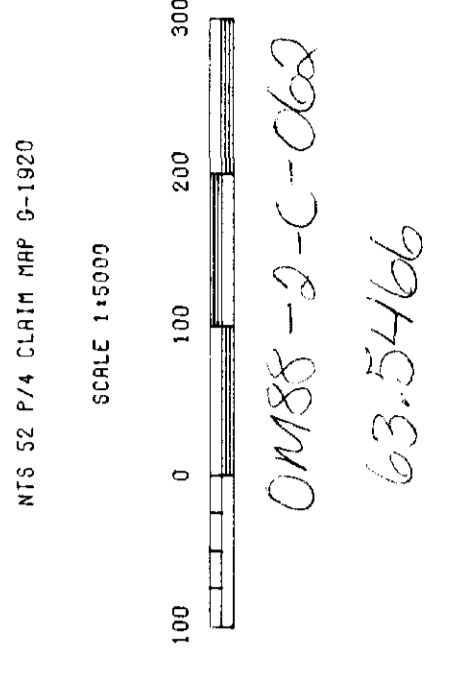


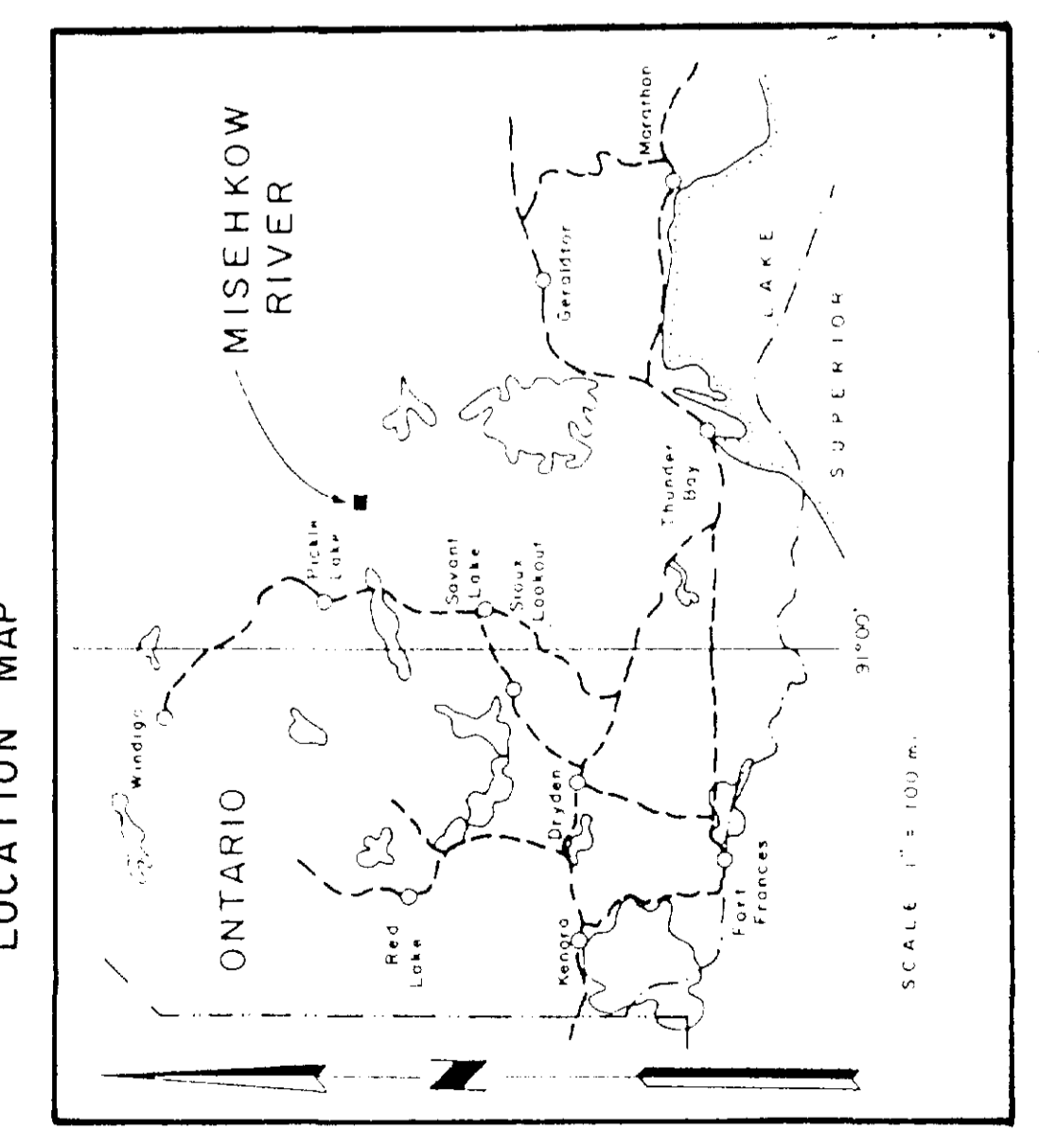
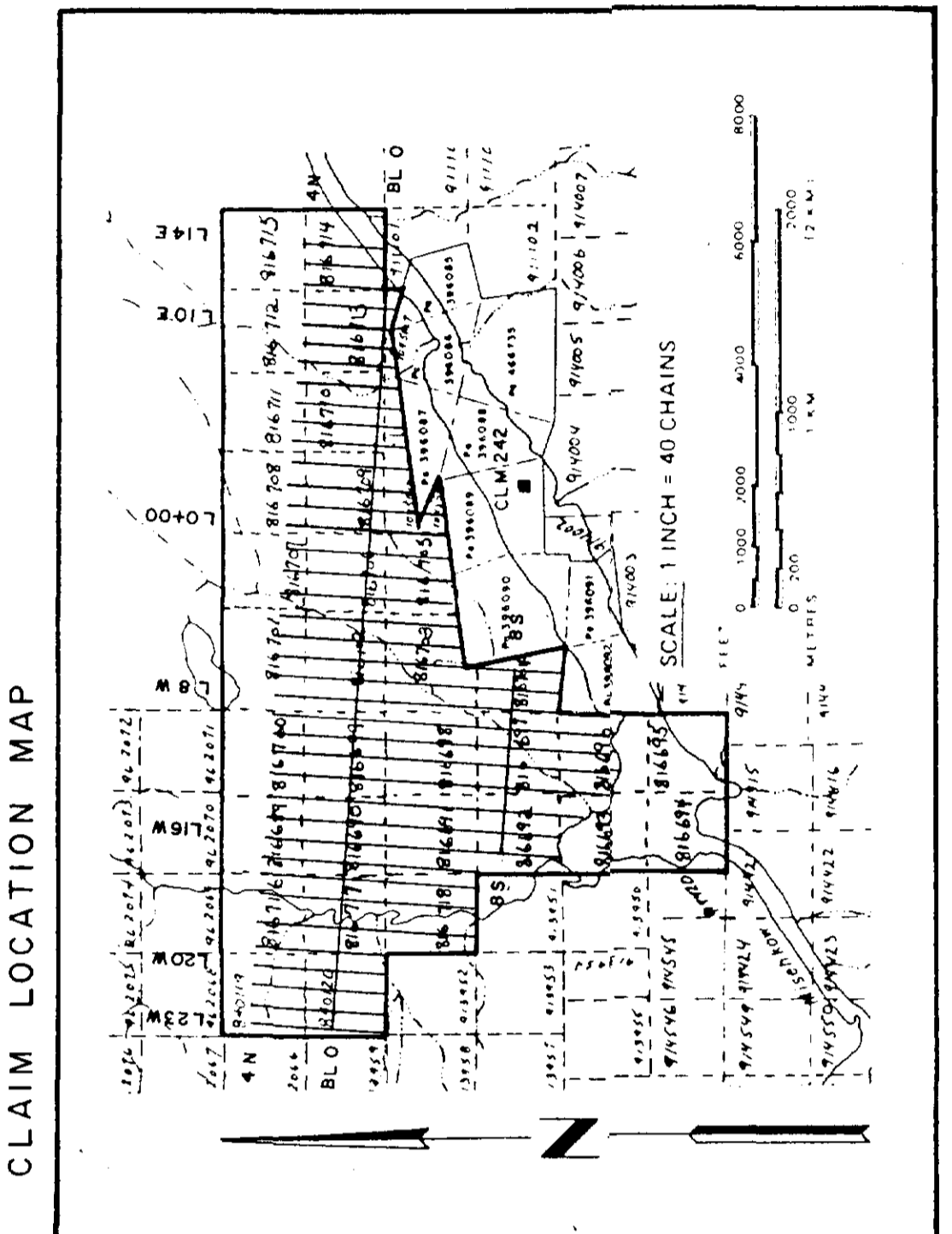
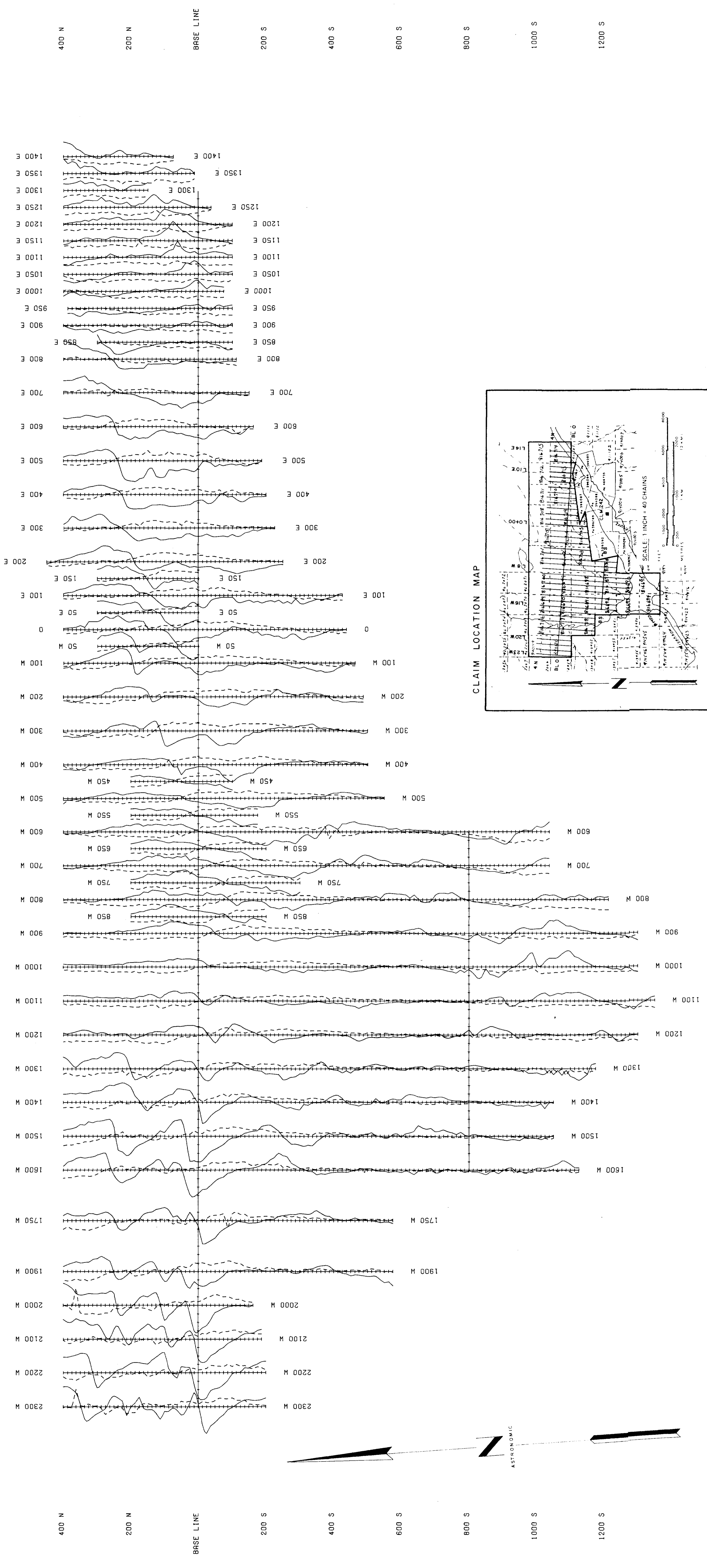


LEGEND

- CUT LINES WITH STATIONS AT 15.5 METRES
- QUADRATURE POSTING TO RIGHT IN DEG
- ALL READINGS TAKEN FACING NORTH
- INSTRUMENT USED : DEONICS EM-16 VLF

ONTARIO GOLD JOINT VENTURE
 NORTHERN DYNASTY EXPLORATIONS LTD
 MISEHKOW RIVER CLAIM BLOCK
**GROUND VLF-EM (SEATTLE NLK)
 QUADRATURE - POSTING**



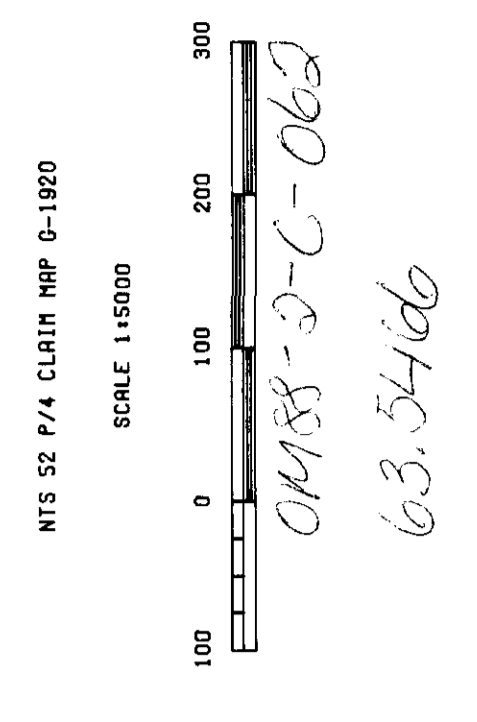


LEGEND

- CUT LINES WITH STATIONS AT 12.5 METRES
- PROFILES POSITIVE TO LEFT
- SOLID LINES: QUADRATURE 20 DEG / CH
- DASHED LINES: QUADRATURE 20 DEG / CH
- ALL READINGS TAKEN FACING NORTH

INSTRUMENT USED : GEONICS EM-16 VLF

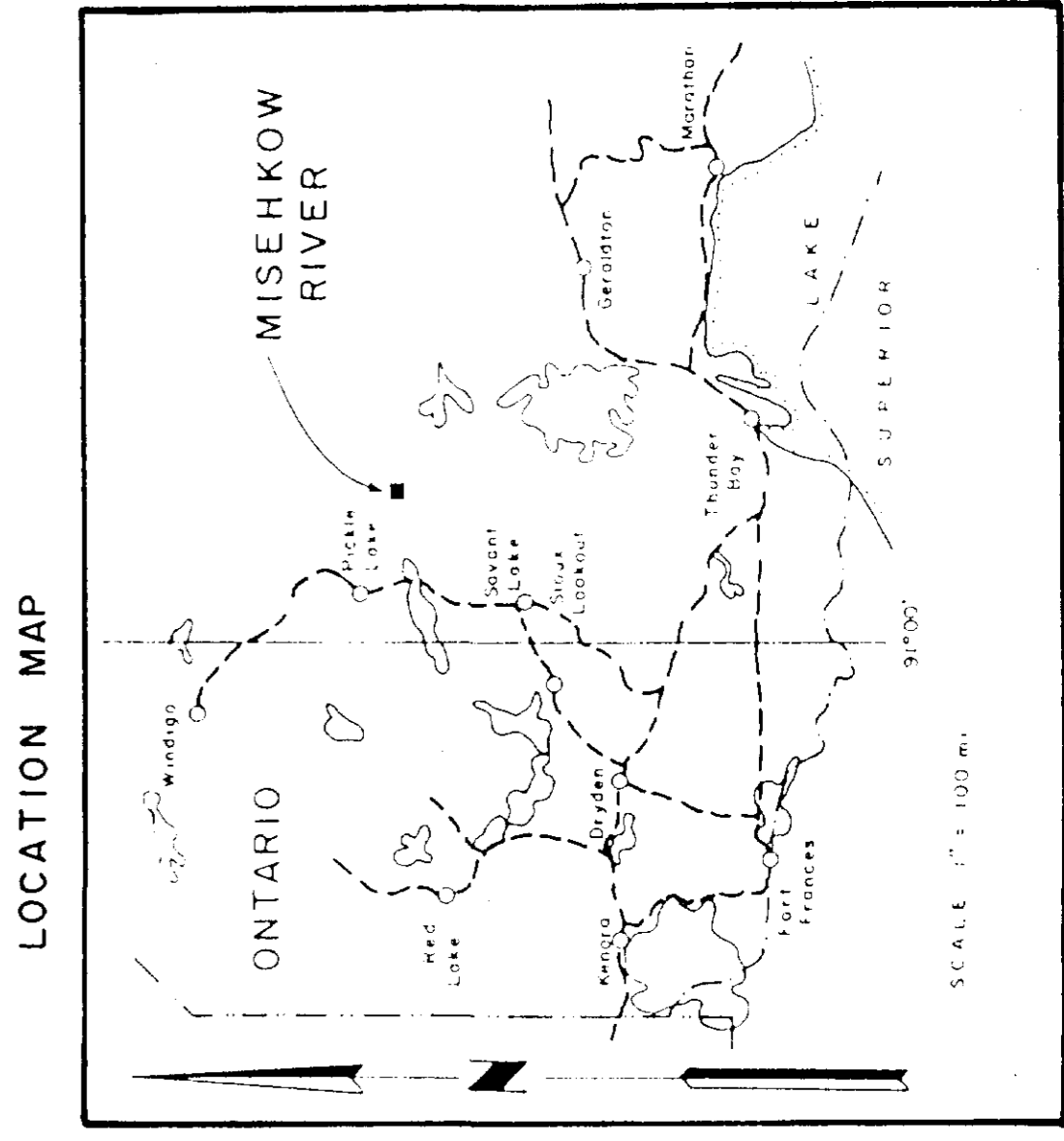
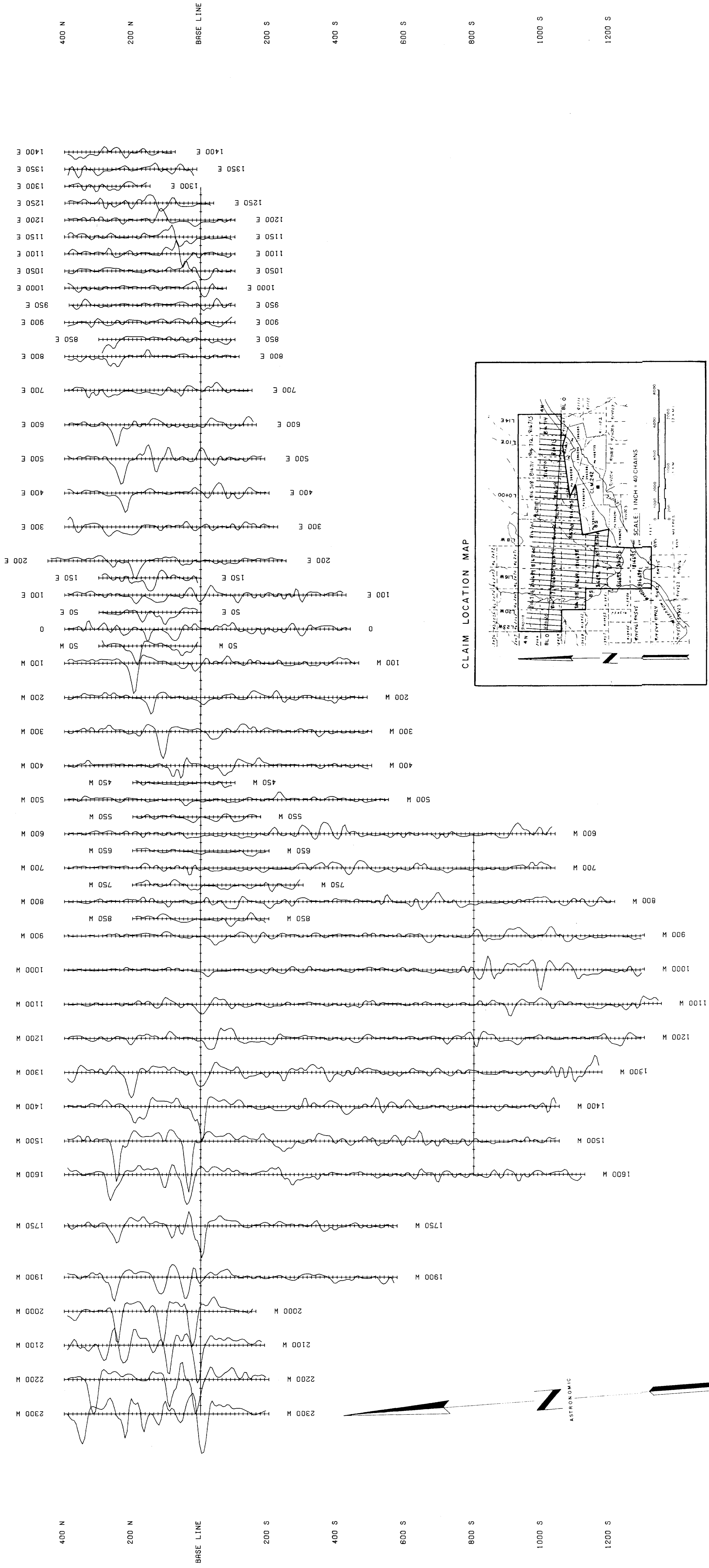
ONTARIO GOLD JOINT VENTURE
 NORTHERN DYNASTY EXPLORATIONS LTD
 MISEHKOW RIVER CLAIM BLOCK
GROUND VLF-EM (SEATTLE NLK)
 DIP ANGLE AND QUADRATURE - PROFILES



MAY - JULY 1988

PLATE 8



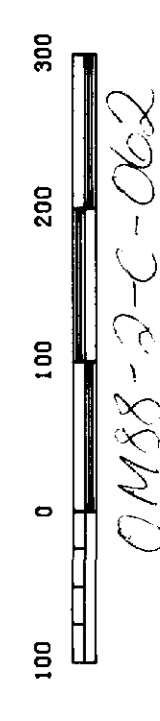


LEGEND

- CUT LINES WITH STATIONS AT 12.5 METRES
- PROFILES POSITIVE TO LEFT
- SOLID LINES : FRASER FILTER OF DIP ANGLE 50 DEG / CH
- ALL READINGS TAKEN FACING NORTH
- INSTRUMENT USED : GEONICS EM-16 VLF

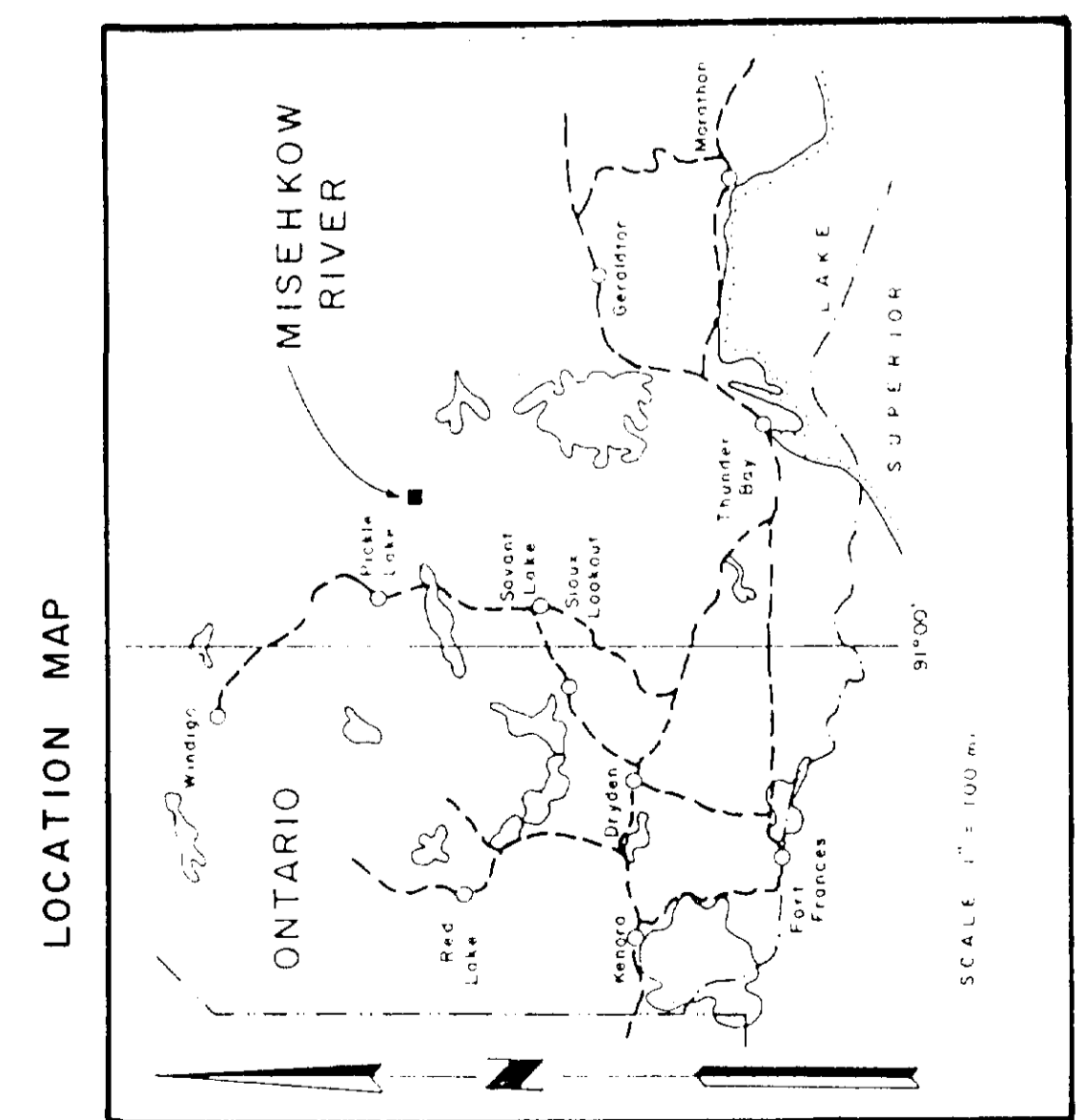
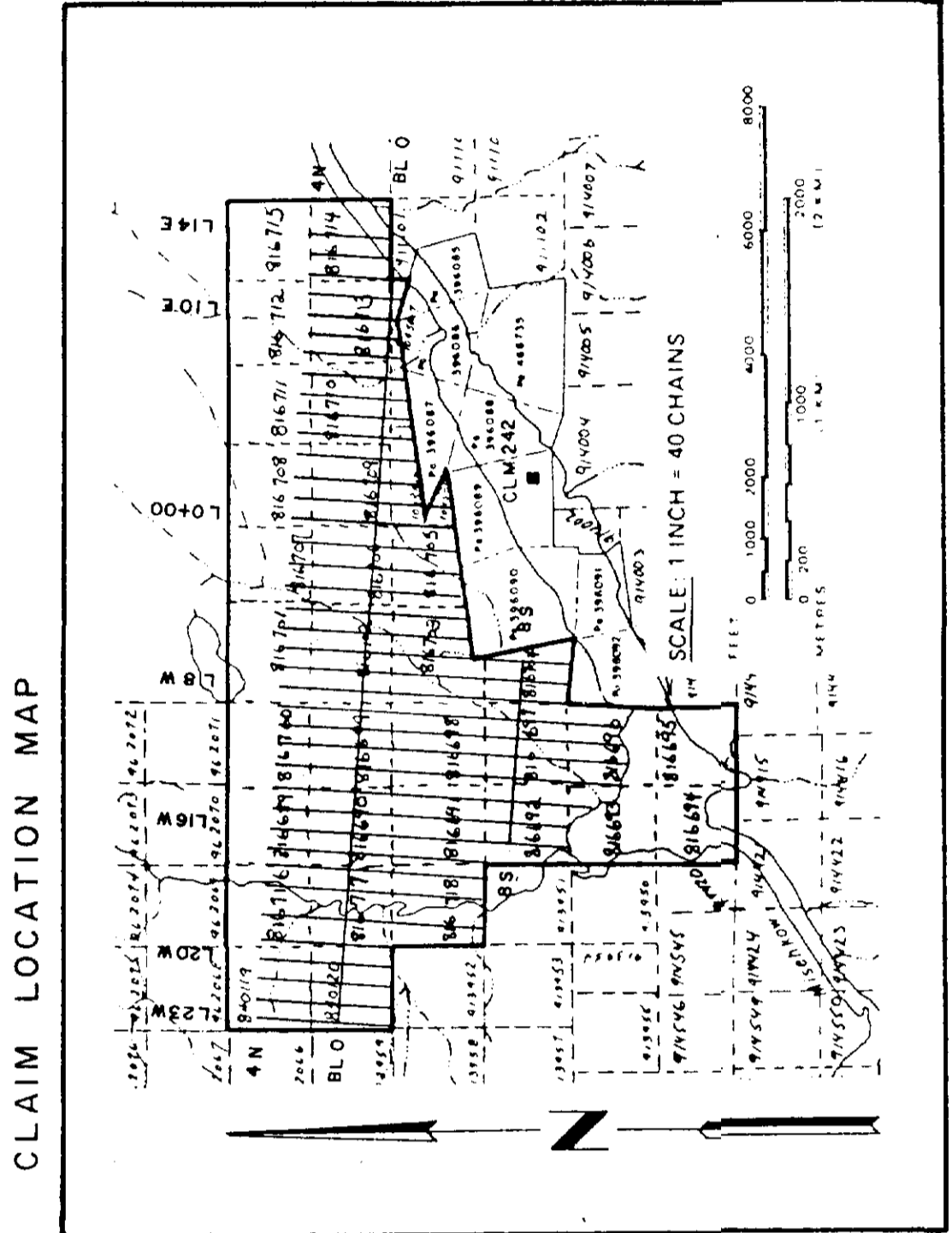
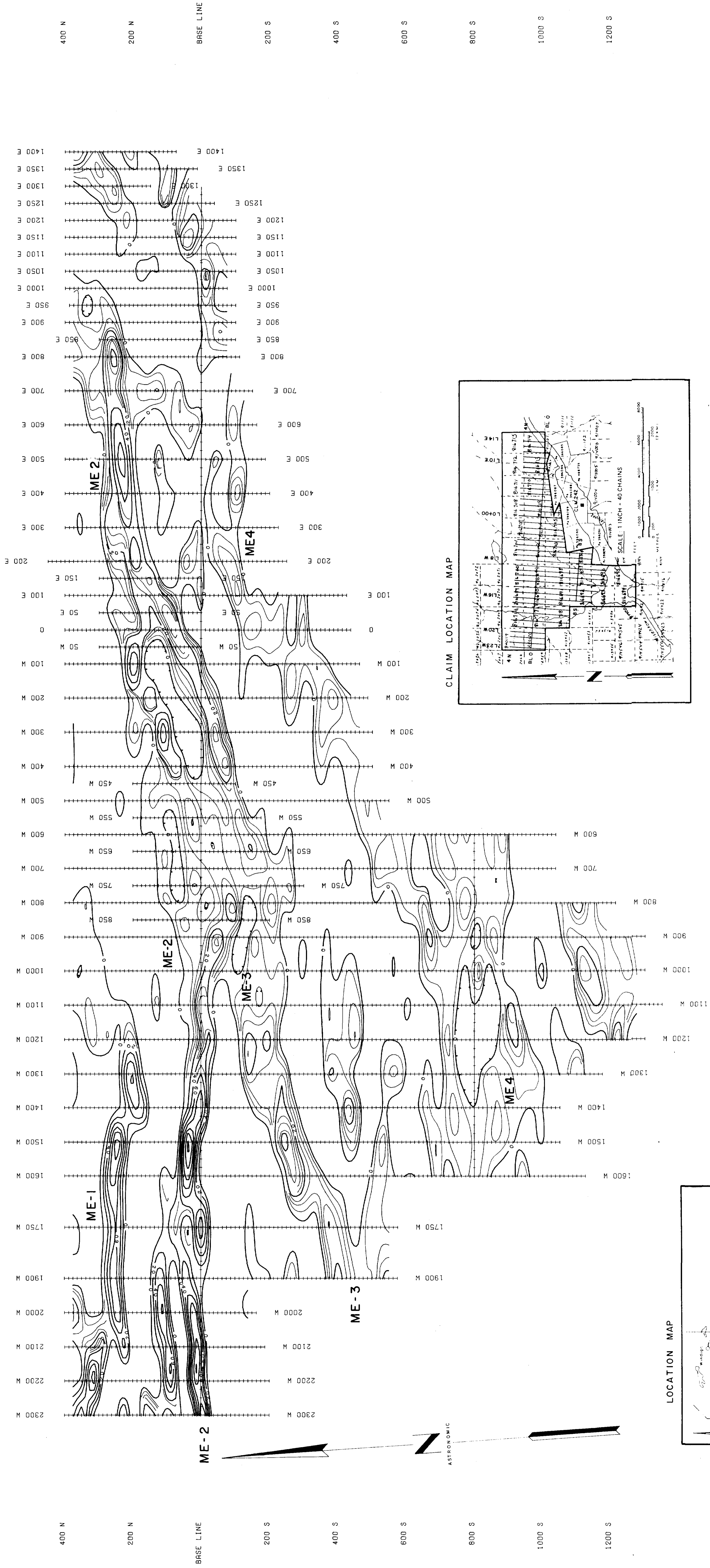
ONTARIO GOLD JOINT VENTURE
 NORTHERN DYNASTY EXPLORATIONS LTD
 MISEHKOW RIVER CLAIM BLOCK
GROUND VLF-EM (SEATTLE NLK)
FRASER FILTER OF DIP ANGLE - PROFILE

MAY - JULY 1988
 PLATE 9



OM88-3-C-062
63.5466



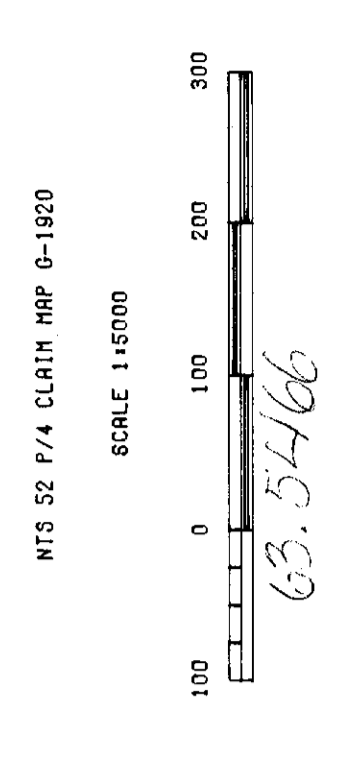


LEGEND

- CUT LINES WITH STATIONS AT 12.5 METRES
- ONLY POSITIVE VALUES CONTOURED
- CONTOUR INTERVALS 5 DEG
- POSTED CONTOUR INTERVALS 20 DEG
- ALL READINGS TAKEN FACING NORTH

INSRUMENT USED : GEONICS EM-16 VLF
ME CONDUCTORS

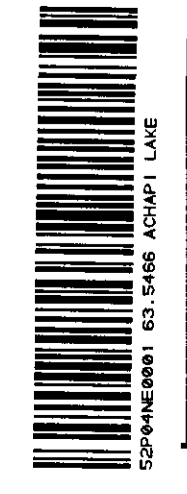
ONTARIO GOLD JOINT VENTURE
 NORTHERN DYNASTY EXPLORATIONS LTD
 MISEHKOW RIVER CLAIM BLOCK
GROUND VLF-EM (SEATTLE NLK)
FRASER FILTER OF DIP ANGLE - CONTOURS



63.54166
 01168-2-C-062

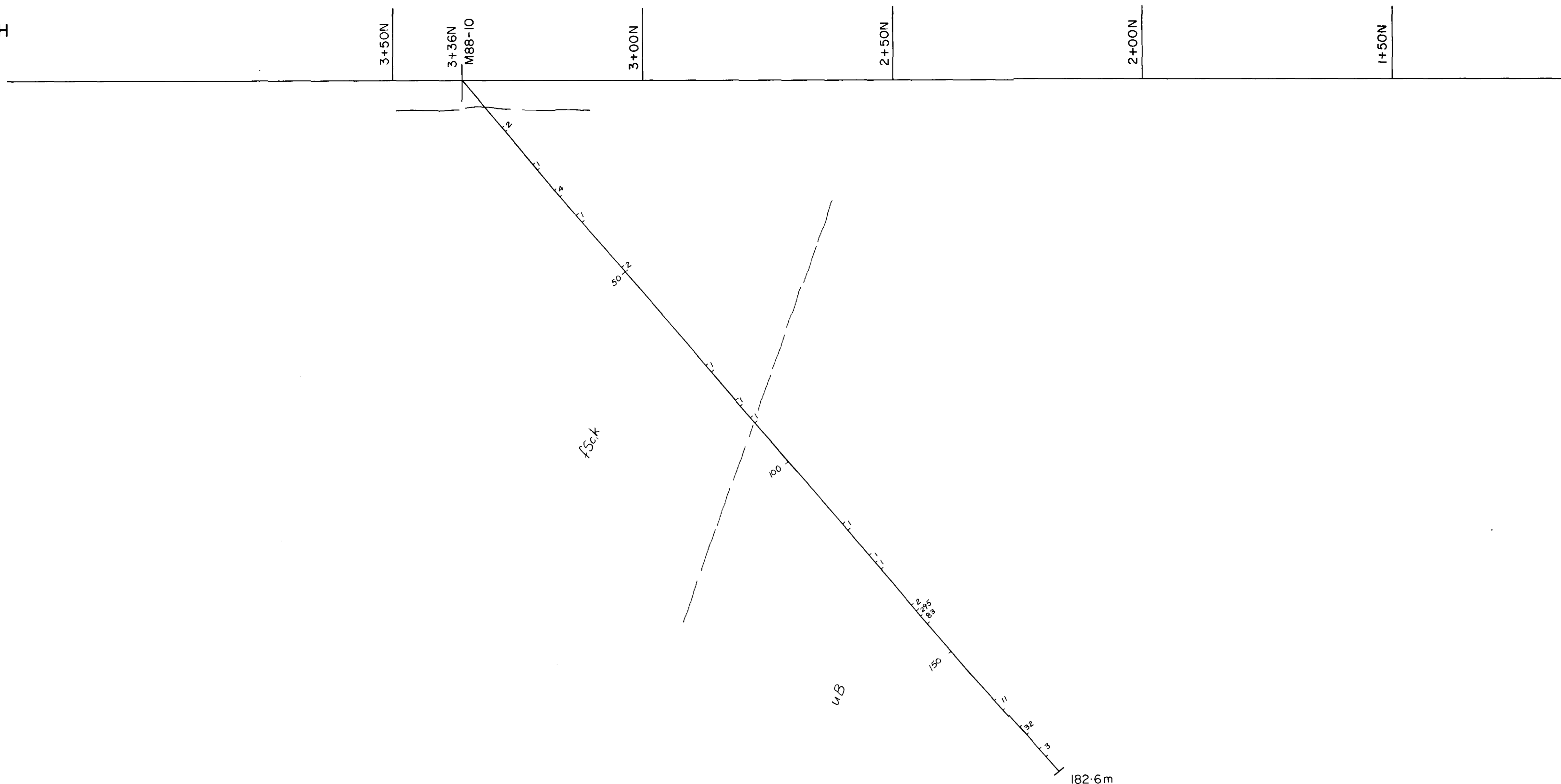
MAY - JULY 1988

PLATE 10



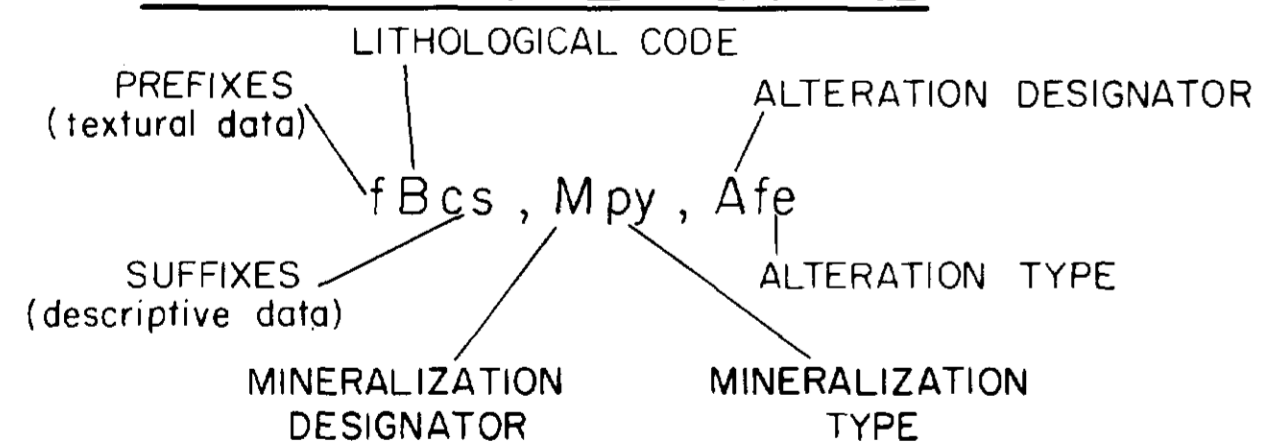
NORTH

SOUTH



83 ppb Au (fire assay AA finish)

LITHOLOGICAL LEGEND



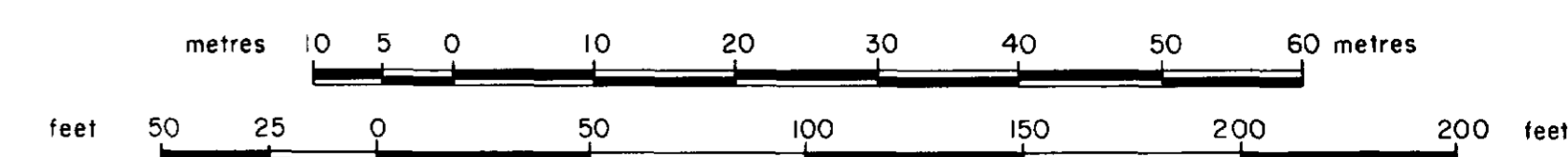
PREFIXES	ROCK TYPE	MINERALOGY	ALTERATION	MINERALIZATION
a amygdaloidal/vesicular	B mafic volcanic	b biotite	se sericite	py pyrite
f foliated	C conglomerate	c chlorite	bi biotite	po pyrrhotite
h hyaloclastite	F felsic volcanic	f felsic	qi quartz eyes	as arsenopyrite
i eyes/augen	G gabbro	g garnetiferous	fe iron carbonate	cp chalcopyrite
p pillowed	K granitoid	k calcareous	cc calcite	mt magnetite
s schistose	H argillite/shale	m mafic	tc talc	qcv quartz-carbonate vein
u unfoliated/massive	N intermediate	q quartz/siliceous	si silicified	au gold
b banded	R iron formation/metachert	s sericite/muscovite	bl bleached	to tourmaline
x breccia	S schist	t staurolite	to tourmaline	sp sphalerite
	T tuff		cm chromium mica	gn galena
	U ultramafic		ch chlorite	
	W greywacke/turbidite		kf potassium feldspar	
	D agglomerate			

ONTARIO GOLD JOINT VENTURE
NORTHERN DYNASTY EXPLORATIONS LTD
MISEHKOW RIVER CLAIM BLOCK

SECTION 9+37E
HOLE M88-10
LOOKING EAST

NTS 52 P/4, CLAIM MAP G-1920

SCALE 1:500

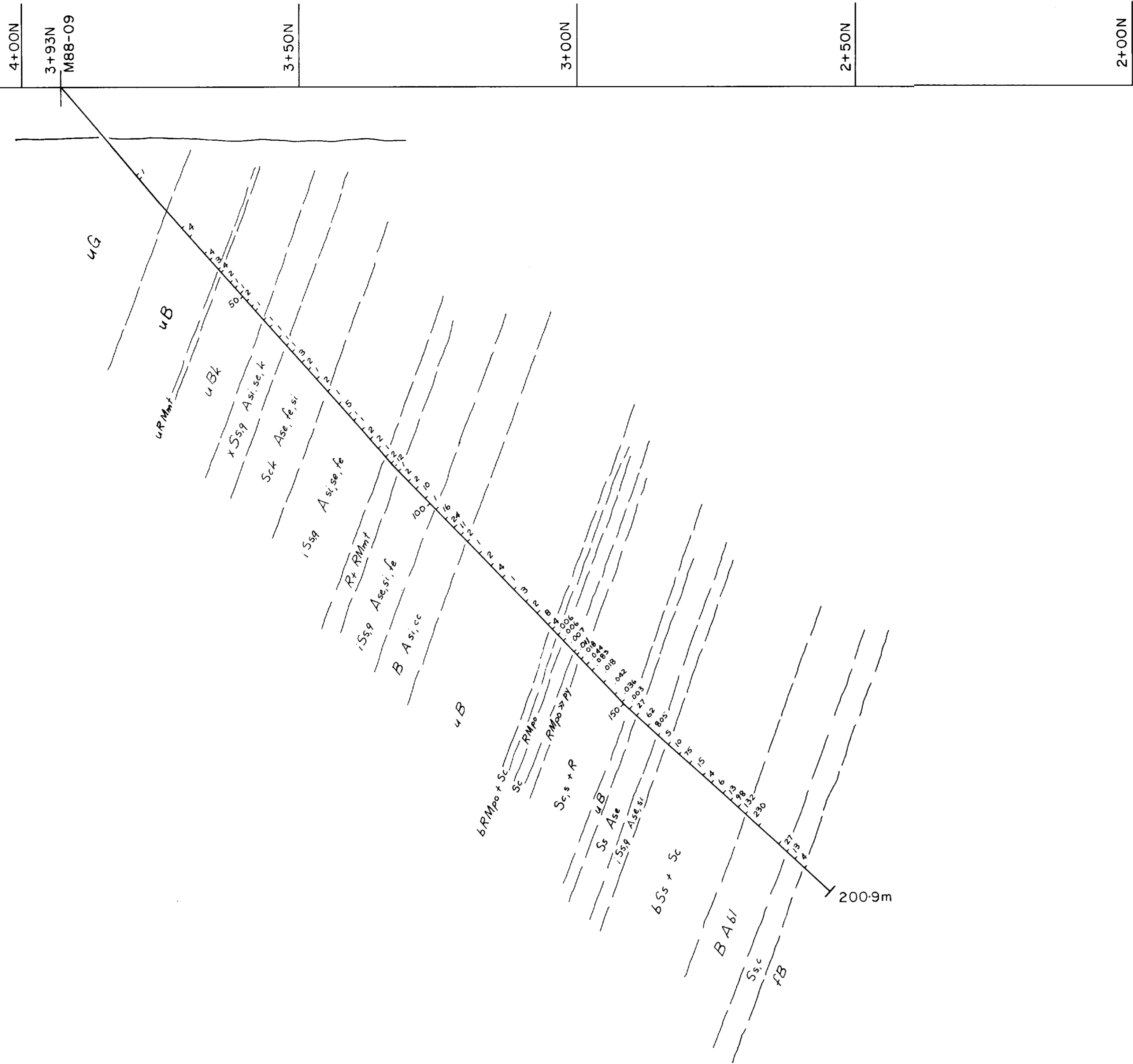


0188-2-C-002
 63 5466



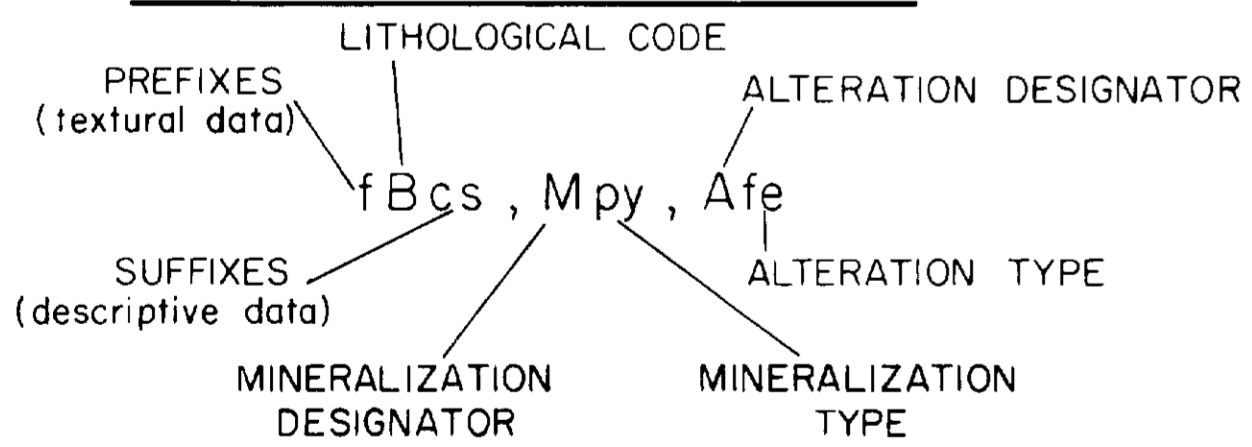
NORTH

SOUTH



12 ppb Au (fire assay prep AA finish)
 .083 oz/ton Au (fire assay)

LITHOLOGICAL LEGEND



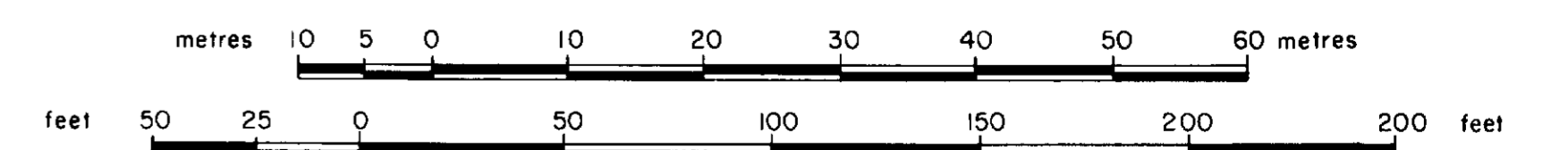
PREFIXES	ROCK TYPE	MINERALOGY	ALTERATION	MINERALIZATION
a amygdaloidal/vesicular	B mafic volcanic	b biotite	se sericite	py pyrite
f foliated	C conglomerate	c chlorite	bi biotite	po pyrrhotite
h hyaloclastite	F felsic volcanic	f felsic	qi quartz eyes	as arsenopyrite
i eyes/augen	G gabbro	g garnetiferous	fe iron carbonate	cp chalcopyrite
p pillowed	K granitoid	k calcareous	cc calcite	mt magnetite
s schistose	H argillite/shale	m mafic	tc talc	qcv quartz-carbonate vein
u unfoliated/massive	N intermediate	q quartz/siliceous	si silicified	au gold
b banded	R iron formation/metachert	s sericite/muscovite	bl bleached	to tourmaline
x breccia	S schist	t staurolite	to tourmaline	sp sphalerite
	T tuff		cm chromium mica	gn galena
	U ultramafic		ch chlorite	
	W greywacke/turbidite		kf potassium feldspar	
	D agglomerate			

ONTARIO GOLD JOINT VENTURE
 NORTHERN DYNASTY EXPLORATIONS LTD
 MISEHKOW RIVER CLAIM BLOCK

SECTION 6+03E
 HOLE M88-09
 LOOKING EAST

NTS 52 P/4, CLAIM MAP G-1920

SCALE 1:500

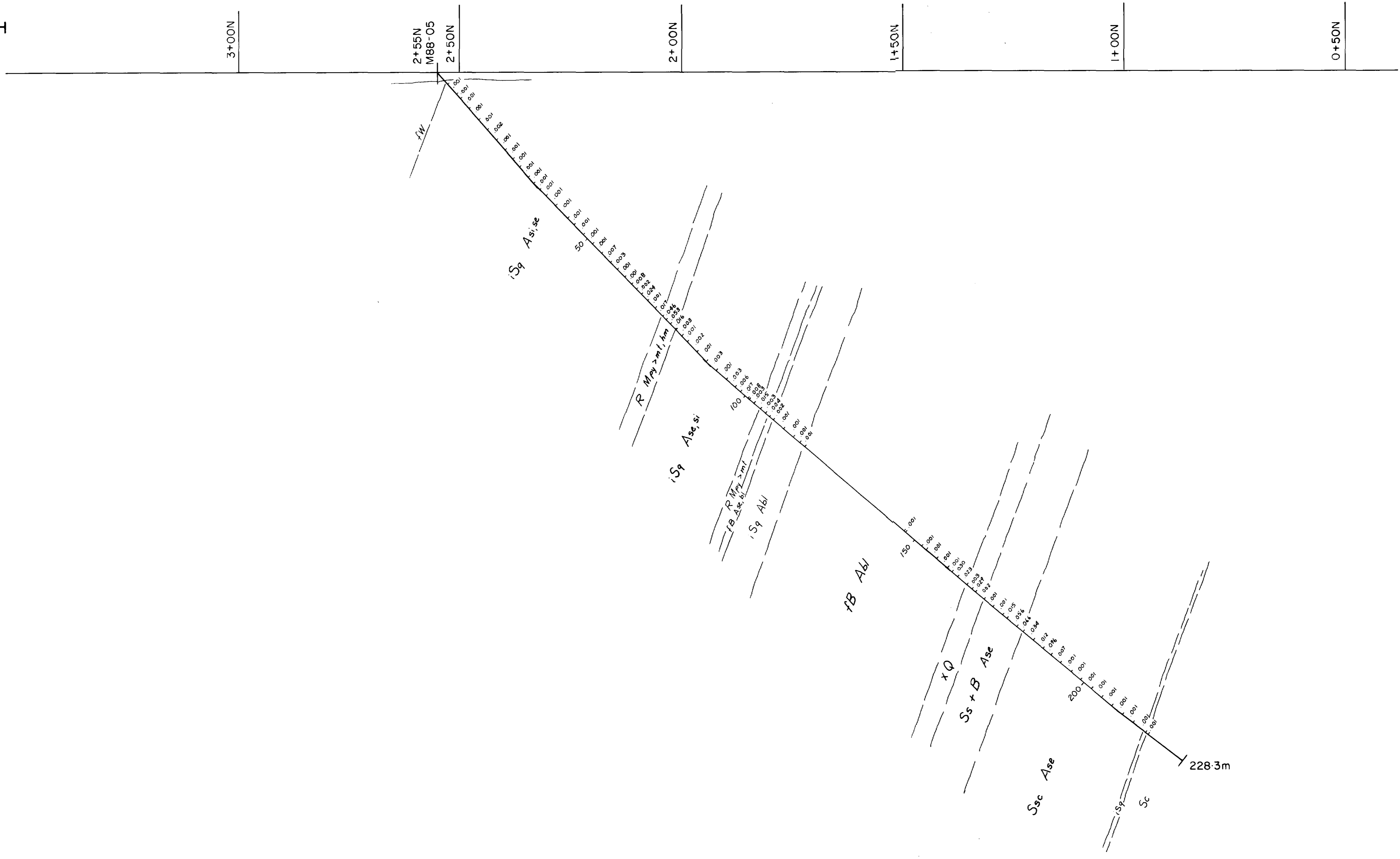


CM88-2-C-062
 63.5466

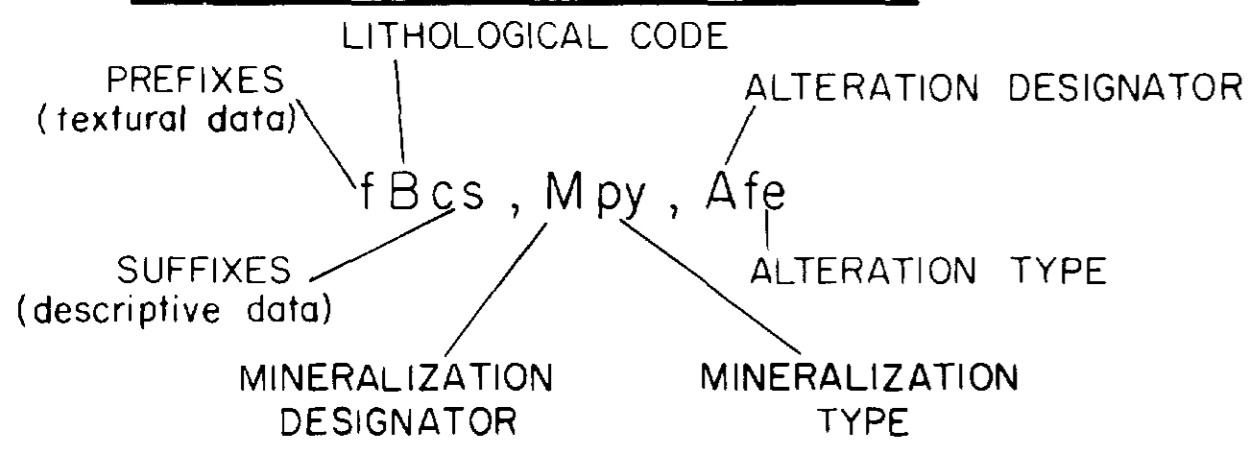


NORTH

SOUTH



LITHOLOGICAL LEGEND



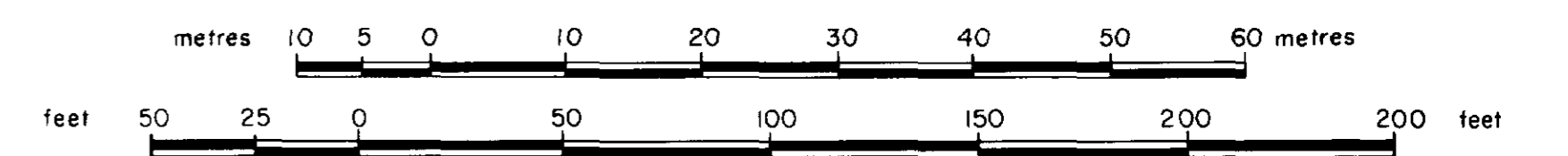
PREFIXES	ROCK TYPE	MINERALOGY	ALTERATION	MINERALIZATION
a amygdaloidal/vesicular	B mafic volcanic	b biotite	se sericite	py pyrite
f foliated	C conglomerate	c chlorite	bi biotite	po pyrrhotite
h hyaloclastite	F felsic volcanic	f felsic	qi quartz eyes	as arsenopyrite
i eyes/augen	G gabbro	g garnetiferous	fe iron carbonate	cp chalcopyrite
p pillowed	K granitoid	k calcareous	cc calcite	mt magnetite
s schistose	H argillite/shale	m mafic	tc talc	qcv quartz-carbonate vein
u unfoliated/massive	N intermediate	q quartz/siliceous	si silicified	au gold
b banded	R iron formation/metachert	s sericite/muscovite	bl bleached	to tourmaline
x breccia	S schist	t stauralite	to tourmaline	sp sphalerite
	T tuff	cm chromium mica	cm chromium mica	gn galena
	U ultramafic	ch chlorite	ch chlorite	
	W greywacke/turbidite	kf potassium feldspar	kf potassium feldspar	
	D agglomerate			

ONTARIO GOLD JOINT VENTURE
 NORTHERN DYNASTY EXPLORATIONS LTD
 MISEHKOW RIVER CLAIM BLOCK

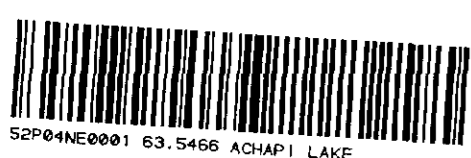
SECTION 0+05E
 HOLE M88-05
 LOOKING EAST

NTS 52 P/4, CLAIM MAP G-1920

SCALE 1:500

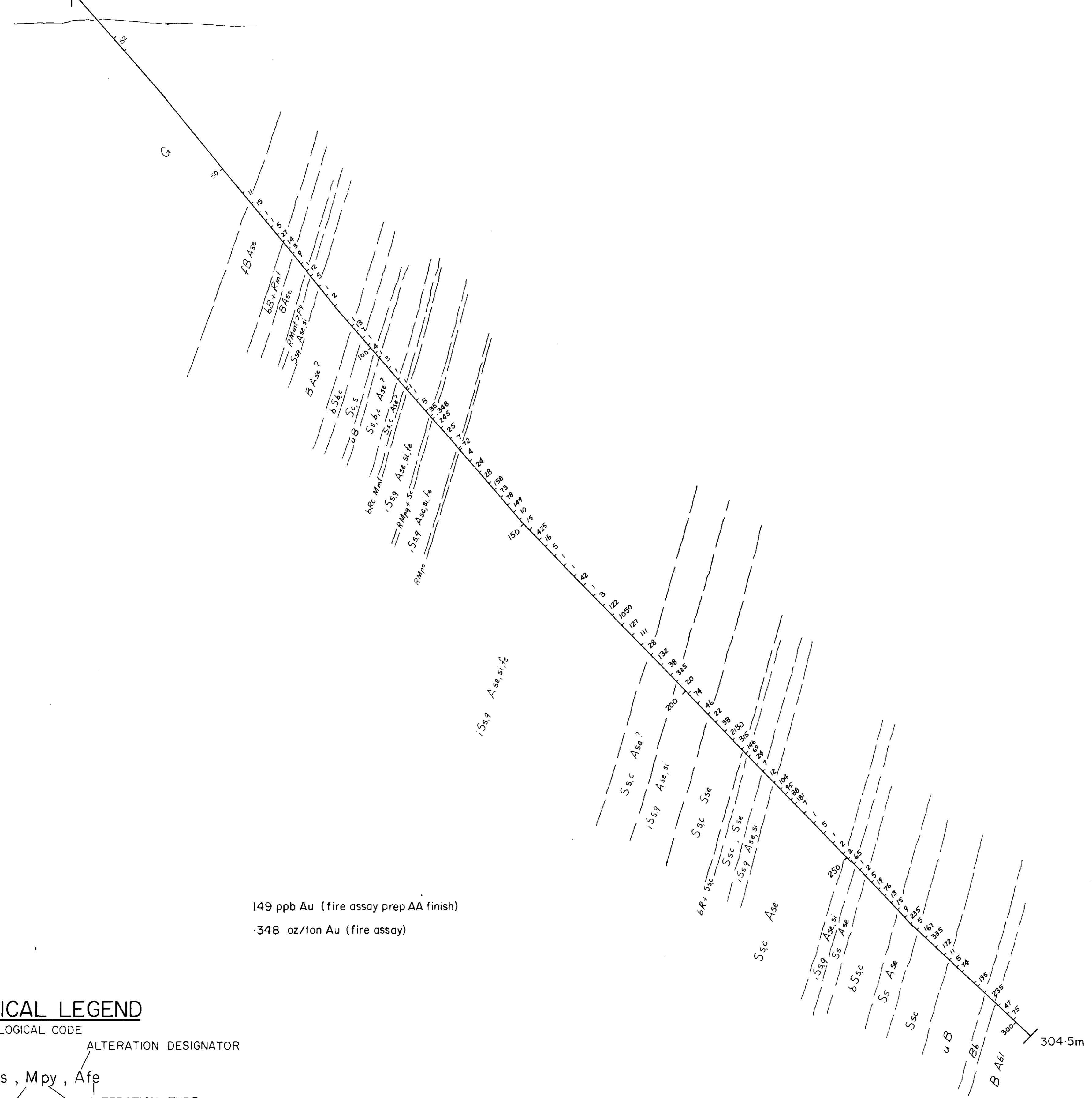
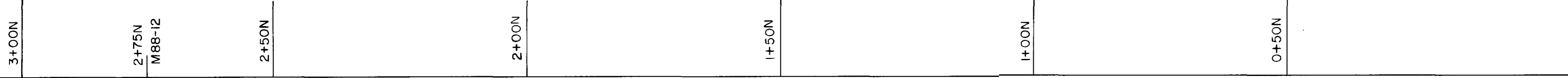


015 oz/ton Au
 015/100



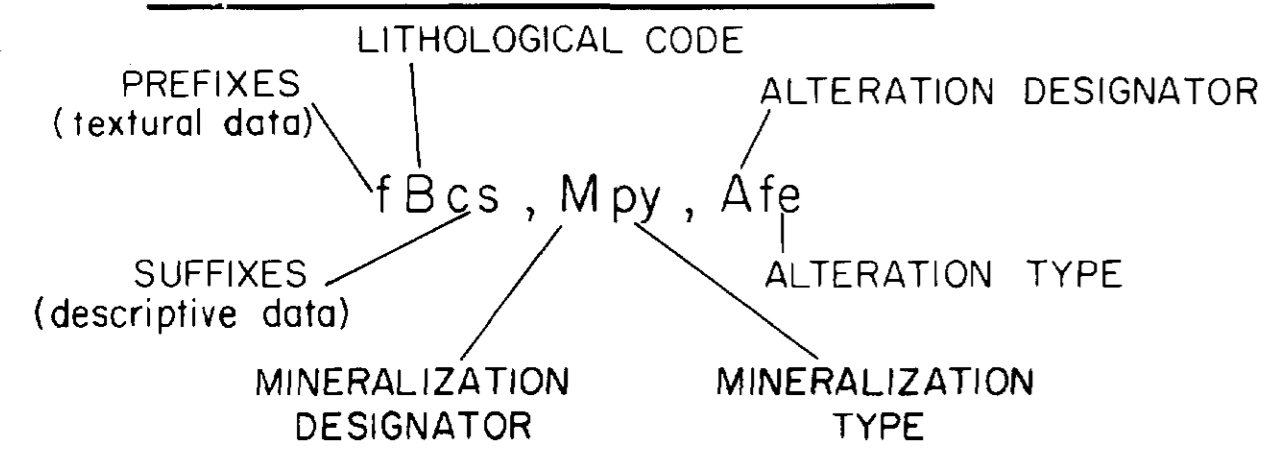
NORTH

SOUTH



149 ppb Au (fire assay prep AA finish)
 :348 oz/ton Au (fire assay)

LITHOLOGICAL LEGEND



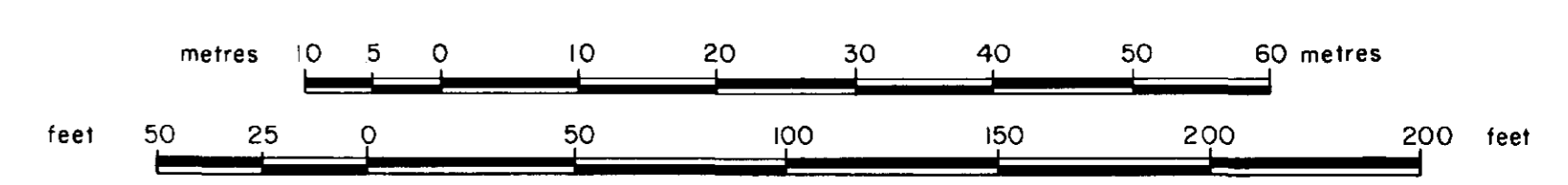
PREFIXES	ROCK TYPE	MINERALOGY	ALTERATION	MINERALIZATION
a amygdaloidal/vesicular	B mafic volcanic	b biotite	se sericite	py pyrite
f foliated	C conglomerate	c chlorite	bi biotite	po pyrrhotite
h hyaloclastite	F felsic volcanic	f felsic	qi quartz eyes	as arsenopyrite
i eyes/augen	G gabbro	g garnetiferous	fe iron carbonate	cp chalcocopyrite
p pillowed	K granitoid	k calcareous	cc calcite	mt magnetite
s schistose	H argillite/shale	m mafic	tc talc	qcv quartz-carbonate vein
u unfoliated/massive	N intermediate	q quartz/siliceous	si silicified	au gold
b banded	R iron formation/metachert	s sericite/muscovite	bl bleached	to tourmaline
x breccia	S schist	t staurolite	to tourmaline	sp sphalerite
	T tuff		cm chromium mica	gn galena
	U ultramafic		ch chlorite	
	W greywacke/turbidite		kf potassium feldspar	
	D agglomerate			

ONTARIO GOLD JOINT VENTURE
 NORTHERN DYNASTY EXPLORATIONS LTD
 MISEHKOW RIVER CLAIM BLOCK

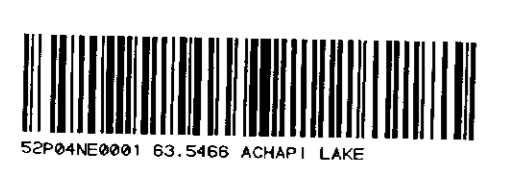
SECTION 1+87W
 HOLE M88-12
 LOOKING EAST

NTS 52 P/4, CLAIM MAP G-1920

SCALE 1:500



M88-12-C-062
 G.S. 5/90



NORTH

SOUTH

1+50N

M88-06
1+40N

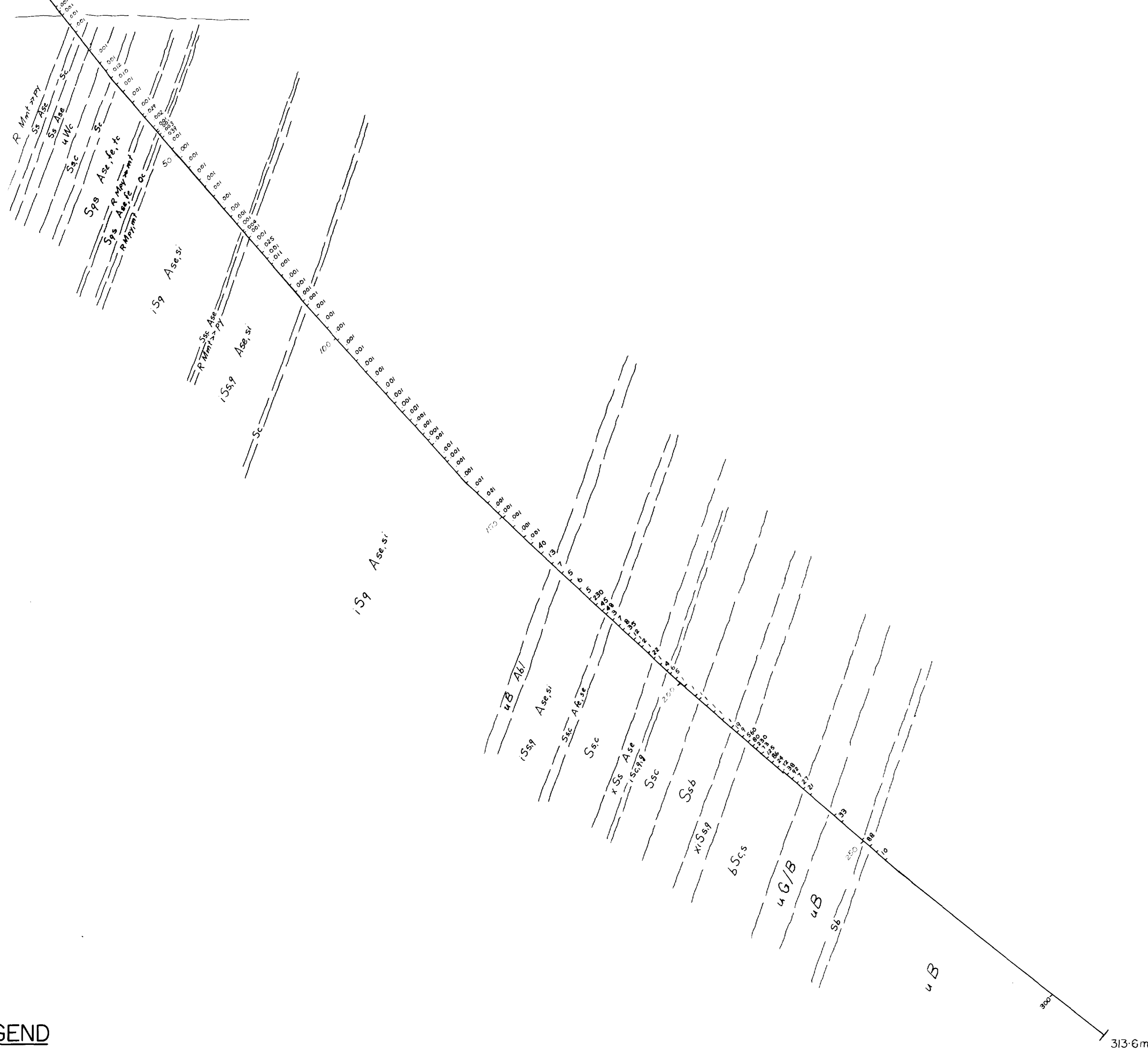
1+00N

0+50N

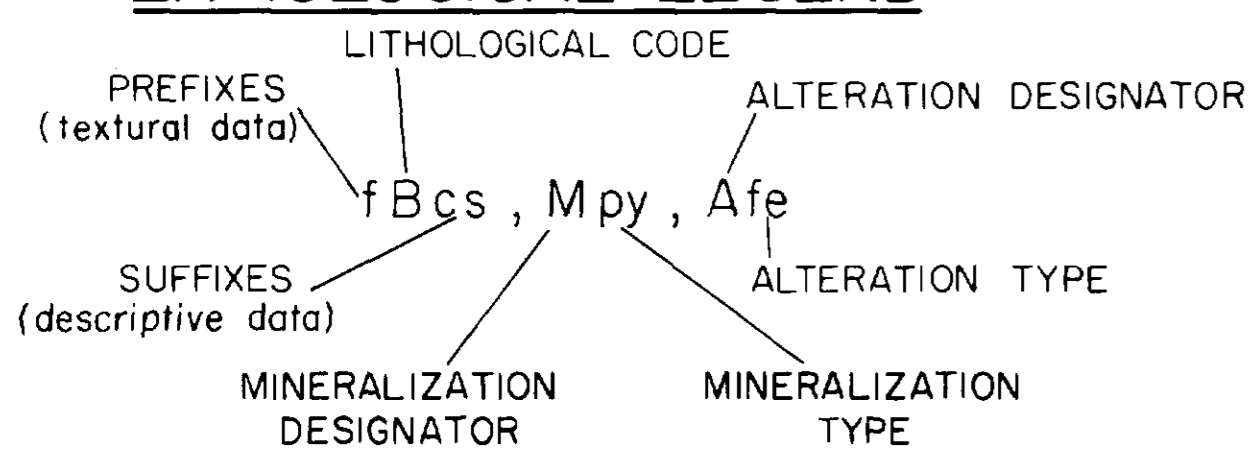
0+00N

0+50S

1+00S



LITHOLOGICAL LEGEND



0.015 oz/ton Au (Fire Assay)
 17 ppb Au (Fire assay prep AA finish)

ONTARIO GOLD JOINT VENTURE
 NORTHERN DYNASTY EXPLORATIONS LTD
 MISEHKOW RIVER CLAIM BLOCK

SECTION 4+00W
 HOLE M88-06
 LOOKING EAST

NTS 52 P/4, CLAIM MAP G-1920

SCALE 1:500



0M88-2-C 067

63.5466



NORTH

SOUTH

2+50N

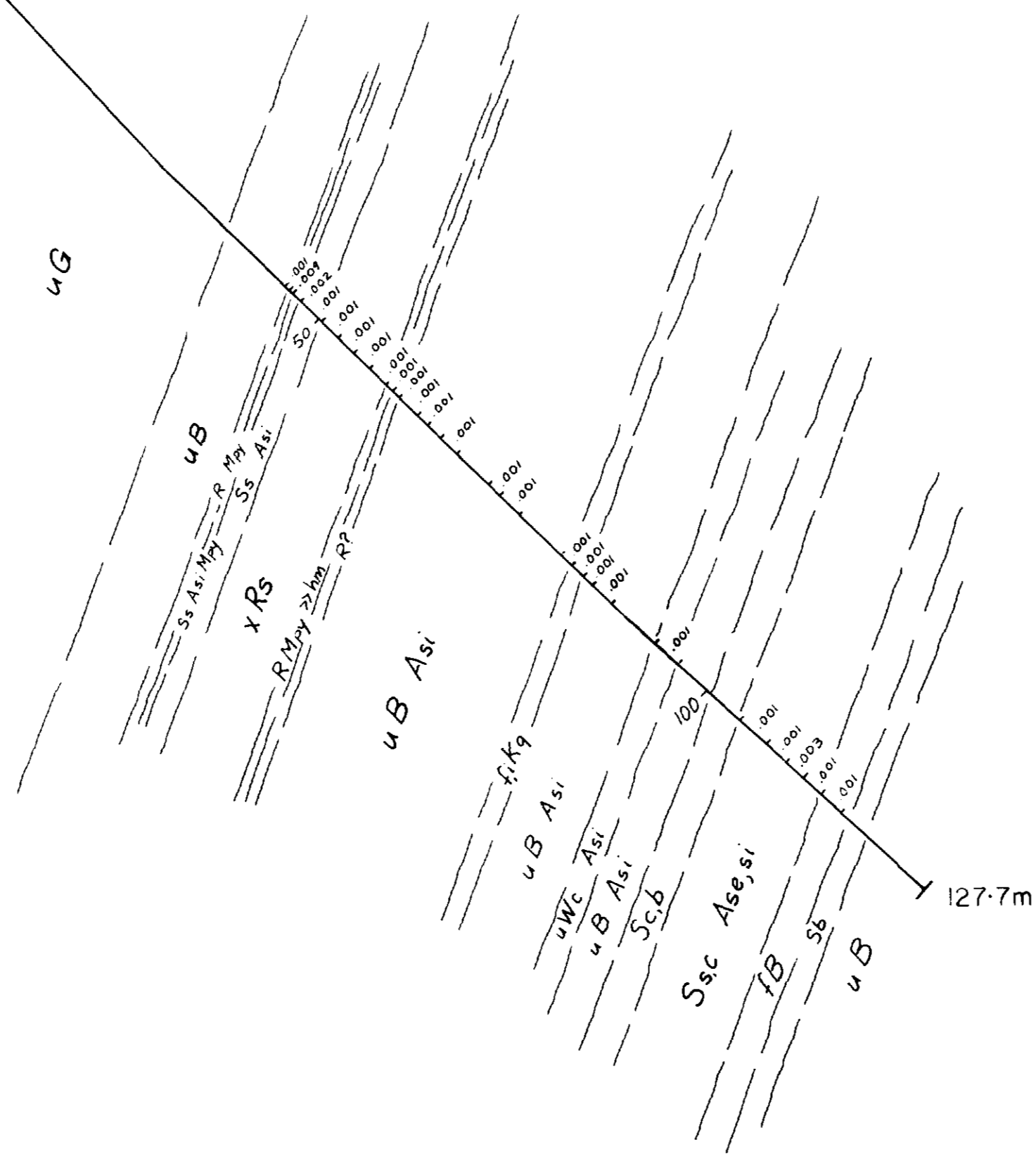
2+23N
M88-3

2+00N

1+50N

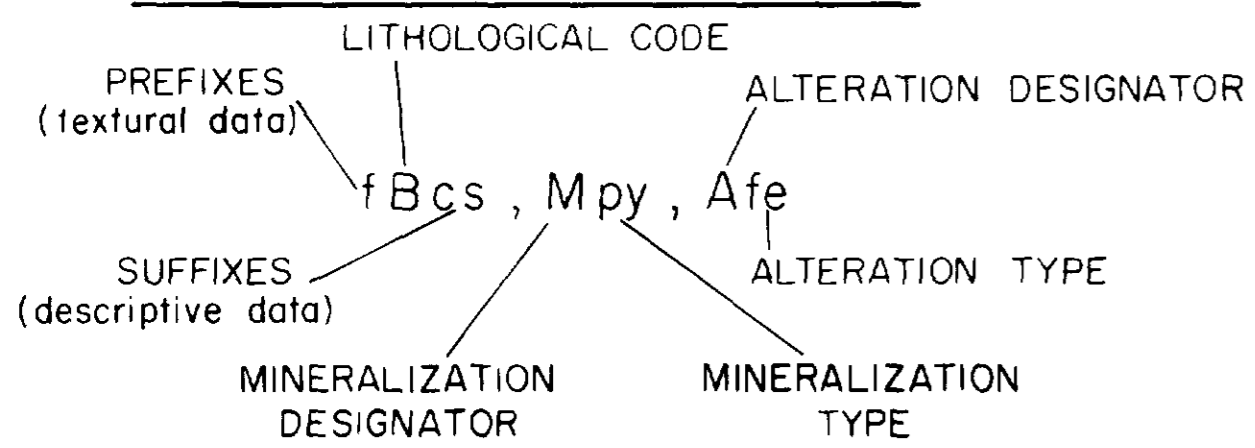
1+00N

0+50N



.001 oz/ton Au (Fire Assay)

LITHOLOGICAL LEGEND



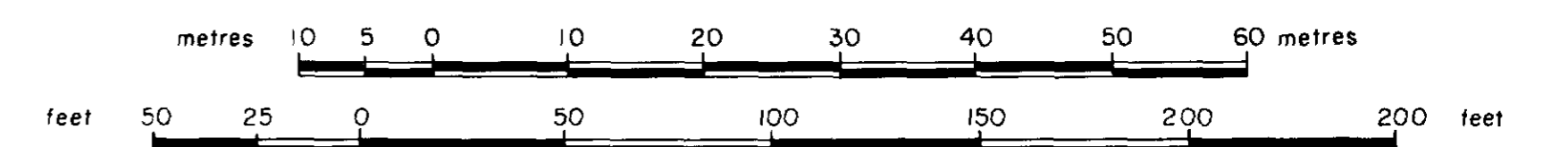
PREFIXES	ROCK TYPE	MINERALOGY	ALTERATION	MINERALIZATION
a amygdaloidal/vesicular	B mafic volcanic	b biotite	se sericite	py pyrite
f foliated	C conglomerate	c chlorite	bi biotite	po pyrrhotite
h hyaloclastite	F felsic volcanic	f felsic	qi quartz eyes	as arsenopyrite
i eyes/augen	G gabbro	g garnetiferous	fe iron carbonate	cp chalcopyrite
p pillowed	K granitoid	k calcareous	cc calcite	mt magnetite
s schistose	H argillite/shale	m mafic	tc talc	qcq quartz-carbonate vein
u unfoliated/massive	N intermediate	q quartz/siliceous	si silicified	au gold
b banded	R iron formation/metachert	s sericite/muscovite	bl bleached	to tourmaline
x breccia	S schist	t staurolite	to tourmaline	sp sphalerite
	T tuff		cm chromium mica	gn galena
	U ultramafic		ch chlorite	
	W greywacke/turbidite		kf potassium feldspar	
	D agglomerate			

ONTARIO GOLD JOINT VENTURE
NORTHERN DYNASTY EXPLORATIONS LTD
MISEHKOW RIVER CLAIM BLOCK

SECTION 13+95W
HOLE M88-03
LOOKING EAST

NTS 52 P/4, CLAIM MAP G-1920

SCALE 1:500



M88-3 C-063

63.5406



507498991 63.5406 ADMP1 LK6

63.5466

(2)



S2P04NE0001 63.5466 ACHAPI LAKE

010

ONTARIO GOLD JOINT VENTURE

MISEHKOW RIVER PROPERTY

1988 FIELD REPORT

Prepared for:

Northern Dynasty Explorations Ltd.
Newfields Minerals Inc.
Westfield Minerals Limited

Written by:

Jerry W. Ho, B.Sc.

Patricia Mining Division
Sioux Lookout Office

Claim Maps:
Achapi Lake Area/G-1920
Heather Lake Area/G-2063

N.T.S. Sheet 52 P/4
89 deg 33' W Longitude 51 deg 10' N Latitude

MARCH 1989

OM88-2-C-062

SUMMARY

The Mischkow River property is located in the Pickle Lake gold camp of northwestern Ontario. Results from a 5,000 foot drill program and from surface exploration have firmly established the mineral potential of the property. Gold mineralization is broadly hosted in sheared and altered iron formation. Mineralization has been traced over a two kilometre strike length. Three phases of deformation and shearing have been identified.



52P04NE0001 63.5486 ACHAPI LAKE

010C

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ONTARIO GOLD JOINT VENTURE

Misehkov River Property

1.0 GENERAL INFORMATION

1.1 Introduction

This year marked an important juncture in the exploration of the Misehkov River property. Detailed geophysics coupled with mapping and prospecting outlined excellent drill targets. Subsequent drilling confirmed the presence of extensive gold mineralization. This report describes the activities of the 1988 summer field season and is divided into four sections; geology, geochemistry, geophysics, and diamond drilling.

1.2 Location and Access

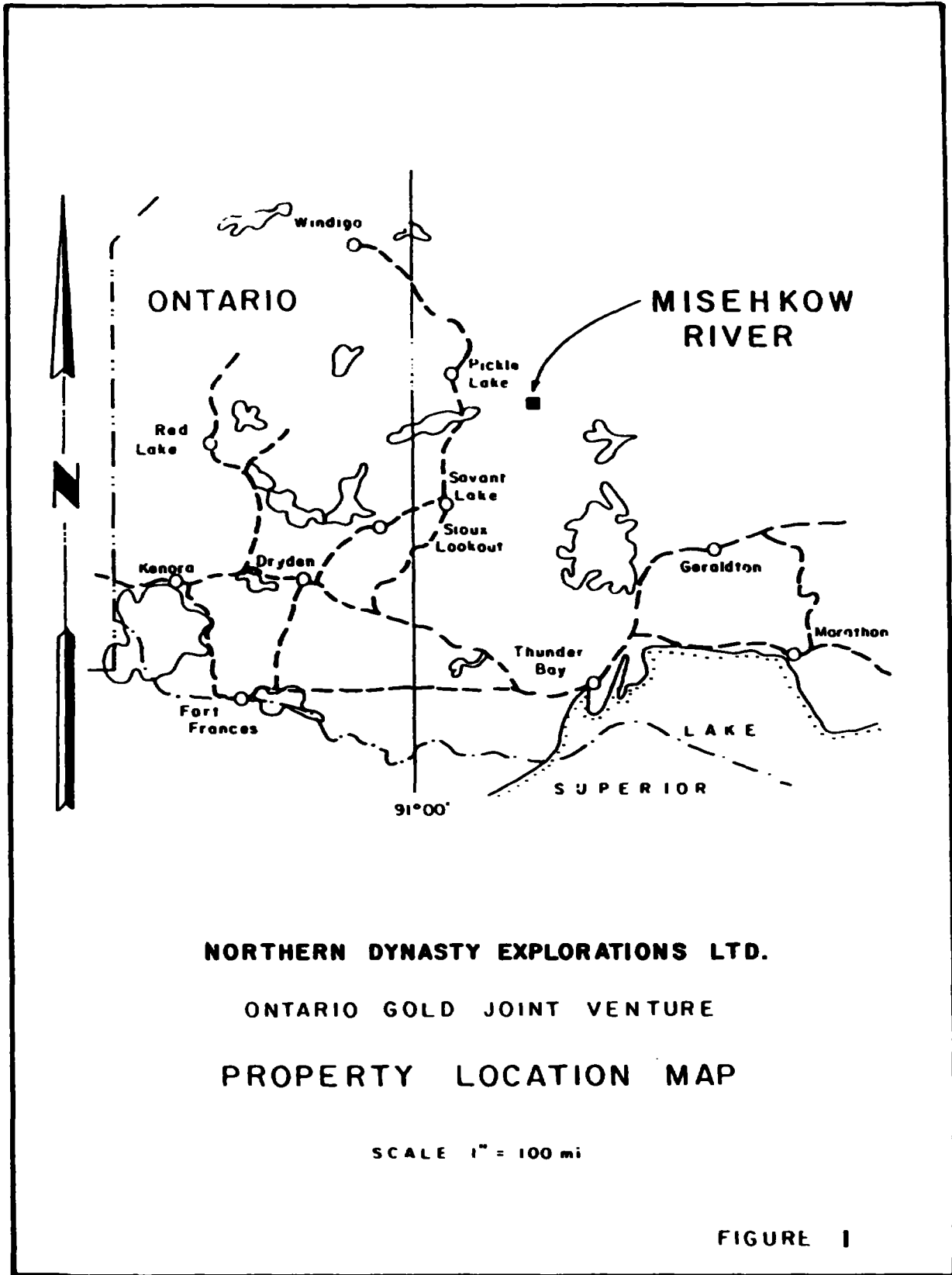
The Misehkov River property is located 55 km southeast of Pickle Lake, Ontario (Figure 1). The claim block is situated on the north shore of the Misehkov River. The southeast corner of the property encompasses the river and a portion of the south shore. The rest of the southern boundary adjoins patented claims Pa 396085 to Pa 396092 and Pa 466735, which are held by Algoma Steel Corporation Ltd.

The only access to the area is by air, mainly by float or ski equipped aircraft from Pickle Lake.

1.3 Claim Status and Titles

The property was originally staked in 1984 and comprised a group of 32 contiguous claims. In early 1988 three more claims were added to the southeast corner, and another 22 claims were added to the northern boundary in early 1989. The total number of contiguous claims is now 57 (Figure 2). Most of the claims are located on the Achapi Lake claim map (G-1920); only the most northeastern corner is located on the Heather Lake claim map (G-2063). Both areas are in the Sioux Lookout District of the Patricia Mining Division, Ontario. The anniversary dates are summarized below.

Claim Numbers	Anniversary Date
Pa 816689-816718	Lease Pending
Pa 840119-840120	Lease Pending
Pa 998963-998976	January 10, 1990
Pa 998978-998985	January 10, 1990
Pa 1045817-1045819	Lease Pending



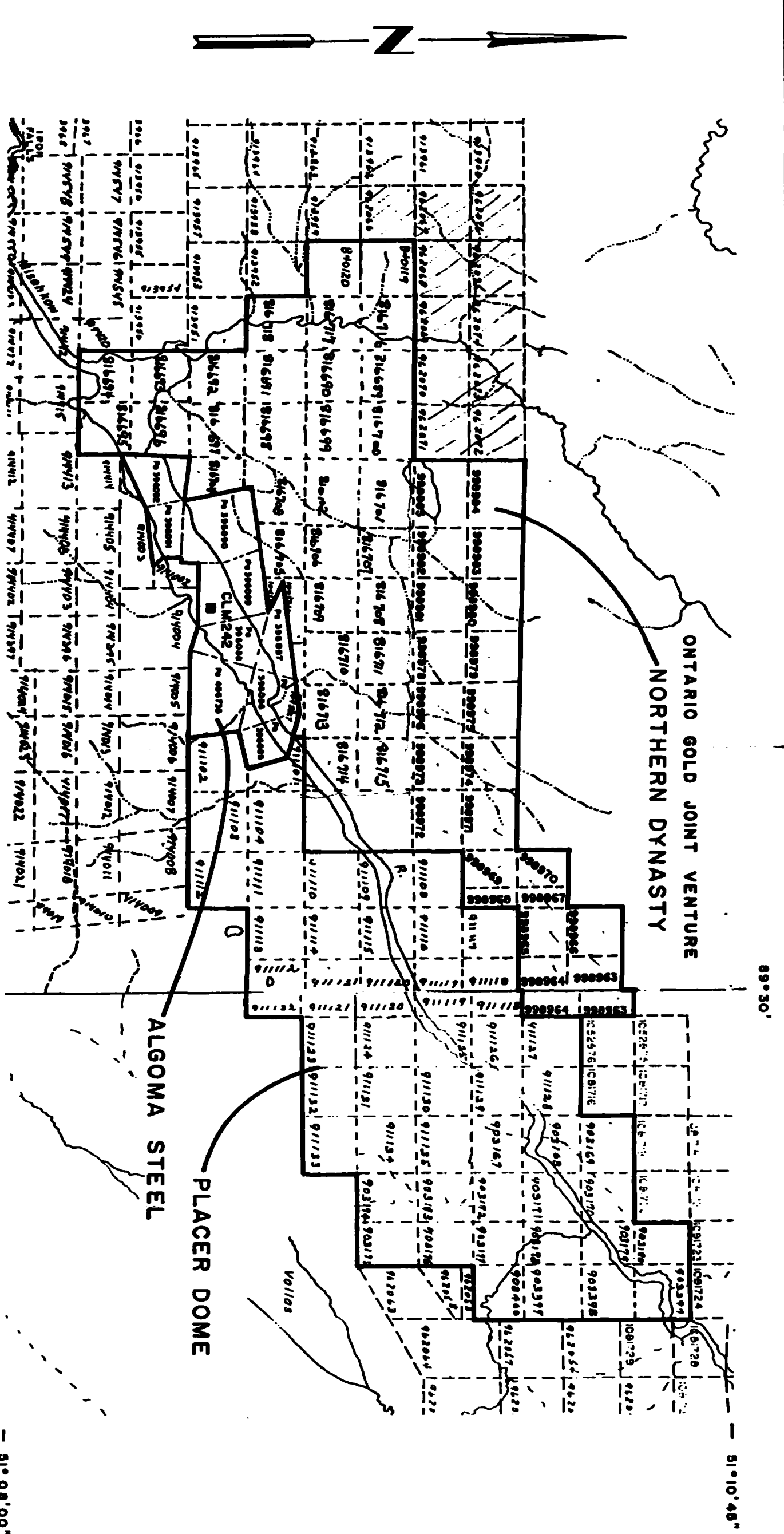
NORTHERN DYNASTY EXPLORATIONS LTD.

ONTARIO GOLD JOINT VENTURE

PROPERTY LOCATION MAP

SCALE 1" = 100 mi

FIGURE 1



SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 300 1000 2000 (2 KM)

NORTHERN DYNASTY EXPLORATIONS LTD.
 ONTARIO GOLD JOINT VENTURE
 MISEHKOW CLAIM BLOCK

1989
 FIGURE 2

All claims are held by Northern Dynasty Explorations Ltd., 844 West Hastings Street, Vancouver, British Columbia, V6C 1C8, in trust for Ontario Gold Joint Venture (OGJV). OGJV consists of Northern Dynasty Explorations Ltd., Westfield Minerals Limited, Newfields Minerals Inc., and Dunlop Explorations (Appendix 1).

1.4 Survey Dates and Personnel

Survey dates, personnel, and type of work performed are summarized below:

Date	Personnel	Type of Work
May 29, 1988 - June 8, 1988	H. Eric Ewen J. W. Ho	Ground geophysics (Mag and VLF-EM)
July 7, 1988 - July 27, 1988	G. Gorzynski (Project Geologist) D. Ward (Westfield Minerals)	Diamond drilling, fill-in geophysics (Mag and VLF-EM)
August 27, 1988 - Sept. 5, 1988	H. Eric Ewen J. W. Ho	Geochemical sampling, prospecting, and mapping
Sept. 16, 1988 - Oct. 16, 1988	G. Gorzynski (Project Geologist) J. W. Ho	Diamond drilling, geochemical sampling, mapping, and prospecting

This report and the accompanying maps were completed between October 20, 1988 and February 20, 1989. The personnel involved were H. Eric Ewen, G. Gorzynski, and J.W. Ho.

1.5 Previous Work

1933. W.S. Dyers initiated a regional mapping program on behalf of the Ontario Department of Mines (Dyers, 1933).

1960. Ontario Department of Mines in conjunction with the Geological Survey of Canada commissioned a regional airborne magnetics survey (O.D.M. - G.S.C., 1960)

1962. A.M. Goodwin commenced the initial phase of a regional mapping program centered in the Pashkokogan - East Lake St. Joseph area (Goodwin, 1965).

1968. Sturdy Mines Ltd. completed a diamond drill program consisting of seven drill holes totaling 5613 feet. The drill target was the iron formation under the Mischkow River (Assessment files, Toronto).

1972. Sturdy Mines Ltd. reported the results of a ground magnetometer and electromagnetic survey (Assessment files, Toronto).

1972. R.P. Sage and F.W. Breaks undertook a helicopter supported, regional mapping program of the greater Cat Lake - Pickle Lake area (Sage and Breaks, 1982).

1977. Algoma Steel Corporation. Ltd. reported ten diamond drill holes completed in the iron formation under the Mischkow River. Total footage was 965 feet (Assessment files, Toronto).

1978. Algoma Steel Corporation. Ltd. reported another two completed diamond drill holes along with results from a ground magnetometer survey (Assessment files, Toronto).

1984-1985. Ontario Gold Joint Venture completed a ground magnetometer and VLF-EM survey, as well as a rock and soil geochemical survey. Geological mapping was also performed (Dunlop, 1985; Tupper et al., 1985).

1986. Ontario Gold Joint Venture commissioned a combined airborne magnetometer and electromagnetic survey (Terraquest, 1986).

1987. Ontario Gold Joint Venture completed a limited rock and soil geochemical survey (Youngman, 1987).

1987. Dome Exploration (Canada) Ltd. conducted a ground magnetometer and electromagnetic survey on eastern adjacent claims (Assessment files, Sioux Lookout).

1988. BHP - Utah Mines conducted a ground magnetometer, VLF-EM, and horizontal-loop EM survey on western and southern adjacent claims (Assessment files, Toronto).

1988. Ontario Gold Joint Venture initiated a detailed magnetic and VLF-EM survey followed by a diamond drill program. A limited geochemical survey was also completed (This report).

2.0 GEOLOGICAL REPORT

2.1 Introduction

A 5,000 foot drill program intersected high gold values. Combined with successful surface exploration work, the mineral potential of the Mishekow River property is firmly established. Mineralization is hosted in folded and sheared iron formation which is similar to the geological settings of the Dona Lake deposit, Pickle Lake, Ontario and the Musselwhite Prospect - West Anticline Zone, Opapimiskan Lake, Ontario.

2.2 Physiography

The property is dominated by the Mishekow River in the south (Plate 1). Two smaller streams drain the western part of the property (informally named Smoking Jacket Creek and Non-Smoking Jacket Creek) and an unnamed creek drains the eastern end. These secondary waterways drain south into the Mishekow River which in turn flows northeast into the Hudson Bay watershed.

Extensive overburden covers large parts of the property. The central areas are dominated by blankets of thick boulder and sandy till with irregular esker formations. These eskers rise 30 to 40m from ground level. Clay is not an uncommon component of the overburden.

The eastern part of the property, for the most part, is subdued except for the eskers, however, in the far west the land is broken by a north-trending rock cliff, which has vertical drop of nearly 20m. This break is most pronounced in the vicinity of the baseline.

The property is covered with a mature mixture of poplar, spruce, birch, and cedar. The birch and poplar grow mainly in areas of extensive overburden. Undergrowth is at a minimum, reflecting the maturity of the forest. An extraordinary wind storm in August of 1988 blew down large areas of trees mainly on hilltops throughout the region. This windfall has made traversing in the area difficult.

2.3 Regional Geology

This section contains a summary of the regional geology compiled from published reports. Greater detail may be gained by referencing these sources (e.g. - Sage and Breaks, 1982).

The Pashkokogan Lake - Misehkov River belt forms the eastern extension of the Lake St. Joseph and Osnaburgh Lakes belt. These supracrustals are located in the Uchi Lake Subprovince.

Mafic to intermediate metavolcanics are the dominant rock types. In general, these rocks are fine grained, foliated to massive with few pillow structures. Locally, medium to coarse grained textures are interpreted as representing the centers of thick flows.

Felsic to intermediate metavolcanics comprise flows and pyroclastics; these are lighter in colour than the mafics but can also be fine grained, foliated, and massive. Pyroclastic fragments and textures can be readily identified. These metavolcanics have been classified by Goodwin (1965) as rhyodacitic and dacitic in composition.

The metasediments form a minor component of the supracrustal sequence. These units are largely greywacke. At Iron Falls, located just west of the property, argillite is associated with fine grained volcanic ash.

Metamorphic grade in the volcanics range from greenschist facies to epidote-amphibolite facies. Greenschist facies rocks are concentrated towards the center of the belt while the margins display higher grades.

Sage and Breaks (1982) have interpreted the gross structural geometry of the belt as dominated by a synformal structure. They base their conclusion on limited pillow top facing data. Detailed property work, however, has revealed a more complex structural history with at least two phases of intense folding and a weaker third phase of deformation.

2.4 Property Geology

Geology

Dunlop Explorations personnel initially mapped the property (Tupper et al., 1985). Plate 1 is an updated geological map of the Misehkov River property. Outcrops occur in scattered zones with the central area of the property lacking any significant amount of exposure. The iron formations that strike across the property are largely inferred from geophysical surveys and diamond drilling.

Mapping has revealed that the Misehkov River property occupies a portion of the Pashkokogan-Misehkov River greenstone belt that is both stratigraphically and structurally complex.

Mafic volcanics occur throughout the property and display a wide variety of textures. The most common are massive flows and fine grained chlorite-Ca carbonate schists. Locally, pillow and hyaloclastite textures have been observed. The pillow structures are elongate and have been oriented parallel to the dominant schistosity. In the east, quartz-eyes locally appear in the mafic volcanics. These quartz-eyes are less than 0.5cm in length and oriented parallel to the dominant schistosity. They may locally comprise up to 15% of the host rock.

Magnetite-bearing chlorite schists have also been observed. The magnetic anomaly on line 12+00E is caused by finely disseminated magnetite in a chlorite schist.

Two types of intermediate volcanics have been mapped. The first is located on the south-most corner of the property, on the south shore of the Mischekow River. Though very similar in appearance to mafic volcanics, these intermediate volcanics have a noticeably larger proportion of interstitial quartz.

The second type of intermediate volcanic was observed at L6+75E, 0+85S. This volcanic consists of pink, angular to rounded fragments supported in a chloritic matrix. The fragments comprise up to 50% of the rock and are generally one to two centimeters in size, though fragments in excess of ten cm have also been observed. The fragments are monolithic and are composed of pink feldspar and quartz with lesser amounts of plagioclase and biotite.

Felsic volcanics (?) have been observed on the southern-most claims and half-way up Smoking Jacket Creek. These outcrops are composed of sericite-feldspar-quartz-Ca and Fe carbonate schists. Texturally, these are fine grained and appear tuffaceous. These rocks may be in part highly altered mafic volcanics. Their consistent textures and composition over a relatively wide area support a felsic origin for the bulk of these rocks.

Much of the outcrop on the property consists of intercalated clastic and chemical sediments. The clastic sediments comprise a mixture of greywackes, arenites and locally argillites. Garnetiferous sediments have been observed in areas of good exposure; the garnets, coloured a deep red, average less than one centimeter in diameter.

Clastic sediment beds vary from a few centimetres to in excess of 15m. Intercalated with the clastic sediments are chemical sediments. Two types of chemical sediments have been observed, iron formation and metachert-iron formation. Both types of iron formation have a cherty component, the later, however, has a significant component, in excess of 90%.

The first type of iron formation is the most widespread and occurs across the top-half of the property about the baseline. Mapping has shown that this chemical sediment comprises an assemblage of chert, magnetite, muscovite, and biotite in thin (<5cm) bands. The chert is granular with the magnetite occurring as thin discontinuous bands. Grunerite has also been identified in hand specimen and is thought to be related to the thermal alteration of magnetite.

The second type of iron formation is composed largely of metachert. Exposures of this rock can be found in the southeast corner of the property. Two occurrences have been found, each forming a distinct ridge. Essentially, this rock is composed of quartz and interstitial sericite.

The relationship between these two types of chemical sediments has not been firmly established but it is likely that they reflect a variation in depositional environment and are probably contemporaneous.

Outcropping along the north side of the property is an extensive gabbro intrusive. The massive textures and chilled margins suggest that this gabbro was a late intrusion. However, an altered gabbro was mapped at L15+15E, 1+12S. This gabbro has been altered to an assemblage of plagioclase, pyroxene, biotite, and Fe carbonate. It is not known whether the two gabbro units are related.

Structural Geology

Three distinct phases of deformation have been identified. The first, D1, is associated with structures oriented between 030 to 045 degrees azimuth with steep northwest dips. The most common D1 structure is a relict S1 cleavage. The metachert-iron formations have preserved S1 fabrics with good clarity.

The second phase of deformation, D2, forms the dominant structures on the property. S2 cleavages and schistosity are oriented from 055 to 070 degrees azimuth with steep, northerly dips and are developed in all rock types except for the northern gabbro intrusive. S2 is an axial planar fabric to S1 folds. Isoclinal F2 folds have also been observed with fold axes plunging 60 degrees toward 055 degrees azimuth. The associated fold planes have an 055 degree orientation dipping steeply north.

D2 is also manifested as distinct shears within metachert-iron formations. Generally less than one metre in width and trending 070 degrees azimuth, these shears encompass zones of mylonitization (?) forming anastomosing shear networks.

The third phase of deformation is not widely developed, though locally, it can be intense and dominating. Where D3 is weak, it is manifested as a wide spaced fracture cleavage oriented from 005 to 015 degrees azimuth. More common, though, D3 is formed as kinks and as open folds which deform S2 but without S3 axial planar fabrics. These folds and kinks have variable orientations but generally trend more northerly than either D1 or D2.

Little attention has been given to the linear structure that Smoking Jacket Creek occupies as well as the rock cliff that parallels it. Limited mapping has revealed the presence of D3-parallel structures proximal to the cliff and creek. Conjecturally, Smoking Jacket Creek and the cliff mark a late-stage (D3?) fault zone.

Mineralization and Alteration

Two main iron formation horizons occur in the area - one under the Mischekow River adjacent to the property and one which trends across the middle of the property.

The mineralization under the Mischekow River has been known for some time; Sturdy Mines Ltd. drilled-off 64,555,000 tonnes of iron ore, grading 21.0% iron in 1968. This iron formation consists of bedded chert-magnetite layers with minor hematite and sulphide minerals. The iron formation is hosted by metasediments consisting principally of thinly bedded, graphitic, often silicified, dark metagreywacke.

The iron formation that dominates the central part of the Mischekow River property hosts significant sulphide mineralization. The main sulphide is pyrite, with lesser amounts of pyrrhotite; magnetite is the dominant iron-oxide mineral. Exposures along the cliff near the western end of the property reveal zones of massive pyrite over one metre widths but discontinuous in strike. Few significant gold assays have been reported from these massive sulphide zones.

Surface examination of the metachert-iron formation in the eastern end of the property proved much more successful. Initial grab samples returned anomalous gold values over a strike length in excess of 200m. In the vicinity of 12+00E, 1+10N, detailed examination of the most promising zone revealed that gold mineralization is associated with D2 shears that cut obliquely across the metachert-iron formation (?).

There is little sulphide development with the gold mineralization; typically, pyrite occurs in amounts less than 2%. Arsenopyrite has been observed locally. Gold mineralization is not limited to the metachert-iron formation. A grab sample (JM8-100) of argillic schist with 1% fine grained pyrite taken adjacent to the iron formation, returned an assay of 705 ppb gold.

The most promising results, however, have come from diamond drilling. In short, gold mineralization is predominantly hosted by and adjacent to pyritic and pyrrhotitic iron formation with variable amounts of metachert. Surrounding supracrustals are highly altered assemblages of sericite, quartz, and carbonate. Abundant fold structures have also been observed in core. Section 5.0 discusses the results of the drill program in more detail.

3.0 GEOCHEMICAL REPORT

3.1 Introduction

Previous geochemical surveys have shown that the glacial overburden on the Mizehkw River property is an effective geochemical barrier. The geochemical survey conducted in 1988 was therefore limited to rock samples. A summary of the drill core assay results have also been included in this section. Complete geochemical results for the surface samples and drill core samples are contained in Appendix 3. The drill logs are contained in Appendix 4 (separate volume).

3.2 Methods

The majority of the geochemical samples were grab samples taken at the discretion of the sampler. However, a large area was sampled in detail after an earlier grab sample, EK8-R15, returned a gold assay of 523 ppb. This area, known as 12+10E, 1+10N Showing, was exposed using a Wajax fire pump. Chip sampling was systematically performed over the exposure using a tungsten-carbide tipped moil. All samples were put into plastic sample bags and shipped to Acme Analytical Laboratories (Vancouver) for analysis. Appendix 2 outlines the analytical procedures used by Acme Analytical Laboratories.

3.3 Results and Conclusions

A summary of the results from the surface sampling program is contained below in Table 1. The locations of the samples taken during the 1988 survey are plotted on Plate 2.

Table 1. Summary of Surface Sampling Geochemistry.

Sample	Au (ppb)	As (ppm)	Sample type/width
JM8-R4	39	7090	grab
JM8-R5	71	186	grab
JM8-R100	705	47	grab
JM8-R110	54	1093	grab
EM8-R11	82	8594	grab
EM8-R15	523	1226	grab
EM8-R24	97	980	chip - 1m
EM8-R26	1220	1191	chip - 1m
EM8-R27	215	959	chip - 1m
EM8-R30	147	389	chip - 1m

Arsenic appears to be the only element that shows any kind of correlation with gold. Locally, arsenopyrite has been observed.

A summary of the gold assay results from the drill program are contained in Table 2. Drill collar locations and drill hole projections have been plotted on Plate 2.

Table 2. Summary of Gold Assays From The Drill Program.

Hole No.	From (feet)	To	Interval (feet)	Oz/t Au
88-05	244.1	252.0	7.9	0.050
	581.7	624.0	42.3	0.049
(incl.)	617.1	624.0	6.9	0.096
88-06	146.3	148.9	2.6	0.039
88-07	657.5	661.4	3.9	0.126
	700.1	720.5	20.4	0.112
(incl.)	700.1	710.6	10.5	0.159
88-08	290.0	293.9	3.9	0.056
88-09	456.0	465.2	9.2	0.063
	475.1	490.8	15.7	0.040
88-11	502.0	508.5	6.5	0.140
88-12	391.7	394.0	2.3	0.363
	695.9	703.4	7.5	0.062

The assays indicate the presence of extensive, auriferous mineralization. ICP analysis was performed on some of the core samples (Appendix 3). Initial study of these results revealed a modest correlation between gold and arsenic, similar to surface results. The arsenic dispersion halo appears to be limited in size, however, and may not be of practical use. There is also a weak correlation of anomalous base metal values and gold.

4.0 GEOPHYSICAL REPORT

4.1 Introduction

Renewed exploration on the Mizehkov River property began with a ground geophysics survey at the beginning of the 1988 summer field season. Both ground magnetics and VLF-EM surveys were conducted over the property. Fill-in lines were completed later in the summer in areas of geological interest. This extra data has been integrated with the earlier data and is presented in this section of the report.

4.2 General Survey and Instrument Information

The ground magnetometer survey was conducted with a hand-held Scintrex MFD-2 Digital Fluxgate Magnetometer with a sensitivity of +/- 10 gammas. Readings were taken facing north at a 12.5m spacing on a 50-100m spaced grid. The ground VLF-EM survey was conducted using a hand-held Geonics Ronka EM-16 with two perpendicular receiving coils. Transmitter frequency used was 24.8 kHz located at Jim Creek, Washington, U.S.A. In-phase signals were read in degrees and quadrature in percentages. Survey spacing was also 12.5m. Appendix 2 contains a technical report on the instruments and survey.

In total, 3268 magnetic readings were taken while 3258 readings were taken for the VLF-EM survey. The cut grid consisted of 33.7km of line with 6.1km of flagged lines used for fill-in measurements.

4.3 Results and Conclusions

The field data collected is plotted on Plates 3-10 which are held in the back pocket to this report. Plate 4 is a profile map of the magnetic data. The response of the iron formations located about the baseline is clearly evident. Magnetic gradients were extreme to say the least.

Plate 8 is a profile map of the dip angle and quadrature data. The scales have been adjusted to accommodate the data but the iron formation also produced extreme conditions for the VLF-EM survey.

Plate 5 is a contour map of the magnetic data while the Fraser filtered VLF-EM data is profiled on Plate 9 and contoured on Plate 10. The anomalies are discussed below:

Magnetic Anomalies (Plate 5)

Magnetic Zone 1 (MM1).

Located at L10+00W, 2+00N and continuing eastward to L6+00W, 3+00N, this zone is related to the magnetic characteristics of a gabbroic intrusion. Outcrop in the vicinity support this conclusion.

Magnetic Zone 2 (MM2).

Located at the very top of the grid between lines 2+00W and 2+00E is another anomaly related to highly magnetic portions of the gabbroic intrusive.

Magnetic Zone 3 (MM3).

Previous mapping and magnetic surveys, both ground and airborne outlined the presence of iron formations located about the baseline striking the length of the property. This survey traced the iron formations through areas of overburden.

Plate 5 shows a series of anomalies that broadly outline the trend of the iron formation. In the west, the magnetic anomalies are the most intense; a typical high magnetometer reading would be in the 68,000 gamma range, but at this location readings climb to 80,000 and 90,000. The odd 99,999 gamma reading can be found, the maximum read-out of the instrument.

The overall magnetic pattern in the west end is much wider than on the rest of the property. Mapping has revealed that there are a number of individual iron formations in this area which diffuse the magnetic pattern.

Proceeding eastward, two distinct magnetic anomaly groupings appear to converge at approximately L11+00W, 0+70N. One group is subparallel to the baseline and the other begins at L17+50W, 2+60N and trends just south of east. Speculatively, this pattern may be an isoclinal fold; the intersection at L11+00W and 0+70N is the fold nose, the limbs are represented by the two magnetic anomaly trends.

Between L4+00W and L10+00W and the baseline, much of this anomaly becomes subdued. Overburden in the area becomes thicker, forming discontinuous eskers and thick sandy, boulder till. Diamond drilling (DDH M-88-4) has confirmed that the overburden is in excess of 27m thick. This thick overburden is the cause of the weak portions of this anomaly.

A group of anomalies at L4+00W to L0+00 and north of the baseline indicate that the iron formation is dipping steeply to the north. The overall pattern suggests that the iron formation may be tightly folded with the nose located either at L10+00W, 1+00S or L4+00W, 1+20N. The southern limb may be marked by the anomaly at L2+00W, 0+15N. The northern limb manifests itself as an arc-shaped string of anomalies that trend from the nose of the fold eastward to L8+50E, 2+50N. Diamond drilling between L4+00W and L7+00E intersected several iron formation horizons with associated gold values across the width of this anomaly.

The gross pattern of individual anomalies reveals that the underlying iron formations have a continuous strike-length in excess of three kilometres. Taken alone, however, each anomaly consists of a sharp high which occurs over a limited number of stations; a characteristic that is usually interpreted as caused by a steeply dipping, shallow, and discontinuous conductor. This apparent conflict of interpretation can be resolved by considering the effects of deformation and alteration. Structural thinning, faulting, or folding combined with sulphidation of the iron formation would produce discontinuities in an otherwise continuous lithological unit. Mapping has revealed at least two phases of intense folding and diamond drilling has revealed that sulphidation associated with alteration has occurred in these magnetically-less responsive areas of the iron formation.

Magnetic Zone 4 (MM4).

Located at L10+00E, 3+50N to 0+10N, this anomaly is weaker and broader than the other anomalies. This anomaly also trends north-south rather than east-west. Diamond drill hole M-88-10 revealed the underlying cause to be magnetite - bearing mafic volcanics.

As a general observation, the overall magnetic field is distorted approaching the Misshkew River. Underlying this section of the river is nearly 65 million tons of magnetite iron ore.

Electromagnetic Anomalies (Plate 10)

Conductive Zone 1 (ME-1).

This zone is located in the northwest corner of the grid and stretches from L23+00W, 3+50N to L8+00W, 3+60N. Conductivity appears to be strongest in the west and begins to fade towards the east. This conductor is near the southern edge of a gabbroic intrusive. Drilling suggests that this conductor may be due to an unmineralized fracture and gouge zone (DDH M-88-2; 124.0-126.1m).

Conductive Zone 2 (ME2).

The extensive iron formations localized about the baseline also have an associated electromagnetic signature. The anomaly runs continuously from L23+00W, 0+00N, to L8+50E, 2+50N. This anomaly is caused not only by the presence of magnetic minerals but also sulphides. The magnetic pattern is interrupted where sulphidation has become significant. These areas of sulphidation are associated with gold mineralization.

The strength of this conductor is consistent for most of its strike-length, however, the signal becomes diffused at L8+50W to 4+50W. The magnetic signature is also diffused at this location, as mentioned earlier. The development of thick overburden is the most likely cause.

Conductive Zone 3 (ME3).

Originating at L19+00W, 4+50S and striking northeast to L9+00W, 1+50S is a moderate but distinct conductive zone. Ground examination revealed that this conductor occupies a shallow topographic low which is often swampy. This conductor was tested by drillhole M-88-11 which intersected some non-sulphidic carbonate-silica exhalite horizons. The conductor is probably due to a clay bed in the overburden along the linear erosion trough over the exhalites.

Conductive Zone 4 (ME4).

Striking parallel to Zone ME3, this zone originates at L16+00W, 8+00S and continues to L4+00E, 1+00S. This zone is entirely overburden covered. Ground work has not been revealing and no diamond drilling has been performed to test this broad conductive zone; the underlying cause is unknown.

5.0 DIAMOND DRILL REPORT

5.1 INTRODUCTION

This section summarizes results from two phases of drilling on the Mishekow River Property in 1988. A total of 7,334 feet was drilled in 12 holes, two of which were abandoned in overburden. Drillhole designations, footages and dates of work are listed in Table 3. Location maps are attached to drill logs in Appendix 4 and all holes are plotted on Plates 1 and 2. All assays are recorded on drill logs and on sections in Appendix 4 (separate volume).

Table 3. Diamond Drillhole Data

<u>Hole No.</u>	<u>Footages</u>		<u>Start/Completion Dates</u>
<u>Phase One</u>	<u>Ft.</u>	<u>M.</u>	
M-88-1 (abandoned)	65.	19.8	9 July - 10 July, 1988
M-88-2	469.	143.0	10 July - 12 July, 1988
M-88-3	419.	127.7	13 July - 14 July, 1988
M-88-4 (abandoned)	89.	27.1	15 July - 16 July, 1988
M-88-5	749.	228.3	16 July - 20 July, 1988
M-88-6	519.	158.2	21 July - 23 July, 1988
<u>Phase Two</u>			
M-88-6A	510.	155.4	18 Sept - 21 Sept, 1988
M-88-7	859.	261.8	22 Sept - 25 Sept, 1988
M-88-8	779.	237.4	25 Sept - 28 Sept, 1988
M-88-9	659.	200.8	29 Sept - 1 Oct, 1988
M-88-10	599.	182.6	2 Oct - 3 Oct, 1988
M-88-11	619.	188.7	5 Oct - 6 Oct, 1988
M-88-12	999.	304.5	8 Oct - 12 Oct, 1988

5.2 DRILL TARGETS

Phase one and phase two drill targets were selected on the basis of earlier geological, geochemical and geophysical surveys. This work outlined an east-west trending iron formation for a strike length of over 3.7 kilometres. Exploration also delineated portions of a very wide altered ductile deformation zone which trends at a narrow oblique angle to the iron formation (Plate 1). Gold mineralization is associated with the intersection of the iron formation and this alteration zone.

The phase one drill program (holes M-88-1 to -6) was a wildcat program designed to test a variety of geological and geophysical targets. The phase two drill program (holes M-88-6A to 12) was mainly aimed at further delineating gold mineralization intersected in the phase one program.

5.3 RESULTS

Drillholes M-88- 5,6,6A,7,8,9,10, and 12 were drilled to test the intersection of the iron formation and crosscutting alteration zone. All holes except M-88-10 intersected sulphidized iron formation (pyrite and/or pyrrhotite), significant gold values, and abundant alteration and deformation (Table 2; Plate 1; Appendix 4). Contacts on the alteration zone vary from sharp to gradational. The alteration consists of sericite \pm silica \pm iron carbonate which occurs in widths up to 120m. Locally precursor mafic volcanic and graywacke host rocks can be seen. Sulphidized iron formation intersections are anomalous in gold but most of the significant gold values occur in partially altered mafic volcanics adjacent to and south of the main iron formations all within the larger alteration envelop. Only minor sulphides and quartz veining are associated with this gold mineralization.

Drillhole M-88-11 intersected the westward extension of the main alteration zone (Plate 1). This hole encountered a relatively narrow alteration zone but returned significant gold values from a zone of sparse quartz veining south of the alteration zone. Drillhole M-88-10 missed the target iron formation; further work will be needed to outline the structural complications responsible for this unexpected result.

Drillholes M-88-2 and 3 were drilled on geophysical anomalies on the west side of the property. Hole M-88-2 intersected a zone of unmineralized broken core and gouge which may or may not represent the target conductor; variable overburden in this area has made testing of this conductor difficult. Hole M-88-3 intersected massive pyrite mineralization at the conductor horizon; no significant gold nor base metal values were encountered.

Drillholes M-88-1 and -4 were abandoned in overburden.

5.4 CONCLUSIONS

The intersection of iron formation horizons and the main sericitic alteration zone is the main locus of gold mineralization on the property. Other sporadic zones of gold mineralization occur associated with quartz veins and stockworks both within and away from the main alteration zone.

6.0 REFERENCES

- Dunlop Explorations, 1985. Misenkow River Property. 'in' Ontario Gold Joint Venture - Results of Field Work - 1984. Ontario assessment files, Toronto, p.36-44, 5 figures.
- Dyers, W.S., 1933. Geology of the Pashkokogan - Misenkow River Area, p.1-20, Ontario Department of Mines Annual Report, v. 42, pt. 6. Accompanied by Map 42e, scale 1 inch to 4 miles.
- Goodwin, A.M., 1965. Geology of Pashkokogan Lake - Eastern Lake St. Joseph Area. Ontario Geological Survey Report no. 42, 58p., 3 maps.
- O.D.M. - G.S.C., 1960. Achapi Lake - Air Magnetism Map 932G, scale 1 inch to 1 mile.
- Sage, R.P. and Breaks, F.W., 1982. Geology of the Cat Lake - Pickle Lake Area, Districts of Kenora and Thunder Bay; Ontario Geological Survey, Report 207, 238p. Accompanied by Map 2218, Scale 1:252 440 and Charts A, B, and C.
- Terraquest Ltd., 1986. Misenkow River Claimblock. 'in' Report on an Airborne Magnetic and VLF-EM Survey. Ontario assessment files, Toronto. 11 pages, 6 figures, 4 plates.
- Tupper, D.W., Gorzynski, G.A., and Youngman, B.A., 1985. Misenkow River Property - 1985 Assessment Report. Ontario Assessment files, Toronto. 12 pages, 5 appendices, 2 figures, 6 plates.
- Youngman, B.A., 1987. Misenkow River Property - 1987 Soil Geochemical Survey. Ontario Assessment Files, Toronto. 7 pages, 4 appendices, 3 figures.

APPENDIX 1

PROPERTY HOLDERS

APPENDIX 1

Property Holders

- Operator** - Northern Dynasty Explorations Ltd.
844 West Hastings Street
Vancouver, British Columbia
V6C 1C8
- Manager** - Dunlop Explorations
208 - 170 East Third Street
North Vancouver, British Columbia
V6L 1E6
- Partner** - Newfields Minerals Ltd.
1205 - 750 West Pender Street
Vancouver, British Columbia
V6C 2T8
- Partner** - Westfield Minerals Limited
Suite 201, The Guardian Tower
181 University Avenue
Toronto, Ontario
M5H 3M7

APPENDIX 2

TECHNICAL DATA STATEMENTS AND PROCEDURE RECORDS



TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GROUND GEOPHYSICS (MAGNETICS & ELECTROMAGNETICS)
Township or Area ACHAPI LAKE / G-1920
Claim Holder(s) NORTHERN DYNASTY EXPLORATIONS LTD.
844 W. HASTINGS ST. VANCOUVER, B.C.
Survey Company NORTHERN DYNASTY EXPLORATIONS LTD.
Author of Report J. W. Ho
Address of Author 844 W. HASTINGS ST. VANCOUVER, B.C.
Covering Dates of Survey MAY 29 to October 16, 1988 (intermittent)
(linecutting to office)
Total Miles of Line Cut 33.7 km cut.

MINING CLAIMS TRAVERSED	
List numerically	
Pa. _____	816689
(prefix) _____	(number)
_____	816690
_____	816691
_____	816692
_____	816693
_____	816696
_____	816697
_____	816698
_____	816699
_____	816700
_____	816701
_____	816702
_____	816703
_____	816704
_____	816705
_____	816706
_____	816707
_____	816708
_____	816709
_____	816710
_____	816713
_____	816716
TOTAL CLAIMS (CONTINUED NEXT PAGE)	

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical
	-Electromagnetic _____
	-Magnetometer _____
ENTER 20 days for each additional survey using same grid.	-Radiometric _____
	-Other _____
	Geological _____
	Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: 24 March, 1989 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys			
File No.	Type	Date	Claim Holder

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations MAG. - 3268 ; V.L.F. - 3258 Number of Readings MAG. - 3268 ; V.L.F. - 3258
 Station interval 12.5 METRES Line spacing VARIABLE 50 m to 100 m
 Profile scale EM (V.L.F.) - ONE CENTIMETRE = 10', or 10"
 Contour interval FRASER FILTER AT 20

MAGNETIC

Instrument SCINTREX MED-2 DIGITAL FLUXGATE MAGNETOMETER
 Accuracy - Scale constant ± 10 GAMMAS (HAND HELD)
 Diurnal correction method ONE HOUR BASE STATION TIE-INS WERE ALL WITHIN
 Base Station check-in interval (hours) ± 30 GAMMAS - NO CORRECTION APPLIED
 Base Station location and value MAIN BASE STATION @ LINE BROW, 1210 SOUTH, 61724 GAMMAS

ELECTROMAGNETIC

Instrument GEONICS RONKA EM-10
 Coil configuration TWO PERPENDICULAR RECEIVING COILS
 Coil separation -
 Accuracy ± 1%, ± 1°
 Method: Fixed transmitter Shoot back In line Parallel line
 Frequency 24.0 KHz (TRANSMITTER; CUTLER, MAINE USA)
(specify V.L.F. station)
 Parameters measured IN-PHASE SIGNAL (DEGREES) AND QUADRATURE (PERCENT)

GRAVITY

Instrument _____
 Scale constant _____
 Corrections made _____
 Base station value and location _____
 Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____
 Method Time Domain Frequency Domain
 Parameters - On time _____ Frequency _____
 - Off time _____ Range _____
 - Delay time _____
 - Integration time _____
 Power _____
 Electrode array _____
 Electrode spacing _____
 Type of electrode _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

C

Numbers of claims from which samples taken SEE LIST ON FRONT PAGE

Total Number of Samples Rock = 32 Soils = 2
DRILL CORE = 976

Type of Sample Soil & Rock
(Nature of Material)

Average Sample Weight 0.3 kg

Method of Collection MATTACK, Rock HAMMER

Soil Horizon Sampled A₂, B₂, (C)

Horizon Development A₁-A₂-B₁-B₂-C

Sample Depth 1-120 cm

Terrain Bedrock, Glacial Till, Muskeg

Drainage Development POOR

Estimated Range of Overburden Thickness
0-80 m

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis

Soils: -80 MESH

Rocks: -100 MESH PULP

General INDEXED CATION PLASMA (ICP)

30 ELEMENT ANALYSIS

0.5 gram sample digested in 3ml of
3M HCl - HNO₃ - H₂O AT 95°C
for 1 hour, then diluted to 10ml
with H₂O for I.C.P. ANALYSIS

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

(Cu) (Pb) (Zn) (Ni) (Co) (Ag) (Mo) (As) (circle)

Others SEE BELOW

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory ACME ANALYTICAL LABS

Extraction Method AQUA REGIA

Analytical Method SEE BELOW

Reagents Used _____

General Other I.C.P. ELEMENTS:

Ma, Fe, U, Th, Sr, Cd, Sb, Bi, V, Ca,
P, La, Cr, Mg, Ba, Ti, B, Al, Na,
K, W, Au

Au: 10g sample - FIRE ASSAY
WITH Atomic Absorption
FINISH

APPENDIX 3

CHEMICAL ANALYSES

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

DATE RECEIVED: JUL 29 1988
DATE REPORT MAILED: Aug 4/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Core AU - 10 GR REGULAR ASSAY.

ASSAYER: *C. Leong* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

NORTHERN DYNASTY EXPL. FILE # 88-3092

SAMPLE#	AU oz/t
F 7351	.001
F 7352	.001
F 7353	.001
F 7354	.001
F 7355	.001
F 7356	.001
F 7357	.001
F 7358	.001
F 7359	.001
F 7360	.001
F 7361	.001
F 7362	.001
F 7363	.001
F 7364	.001
F 7365	.001
F 7366	.001
F 7367	.001
F 7368	.001
F 7369	.001
F 7370	.001
F 7371	.001
F 7372	.001
F 7373	.001
F 7374	.001
F 7375	.001
F 7376	.001
F 7377	.001
F 7378	.001
F 7379	.001
F 7380	.001
F 7381	.001
F 7382	.001
F 7383	.001
F 7384	.001
F 7385	.001

LDH-M-88-2

✓

MS

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

DATE RECEIVED: JUL 29 1988

DATE REPORT MAILED: *Aug. 3/88..*

ASSAY CERTIFICATE

- SAMPLE TYPE: Core AU - 10 GR REGULAR ASSAY.

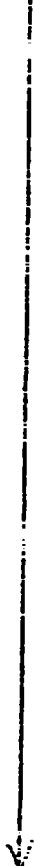
ASSAYER: *C. Leung* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

NORTHERN DYNASTY EXPL. FILE # 88-3091

SAMPLE# AU
oz/t

F 7386	.001
F 7387	.009
F 7388	.002
F 7389	.001
F 7390	.001
F 7391	.001
F 7392	.001
F 7393	.001
F 7394	.006
F 7395	.001
F 7396	.001
F 7397	.001
F 7398	.001
F 7399	.001
F 7400	.001
F 7451	.001
F 7452	.001
F 7453	.001
F 7454	.001
F 7455	.001
F 7456	.001
F 7457	.001
F 7458	.003
F 7459	.001
F 7460	.001

DDH-M-E-E-3



ASSAY CERTIFICATE

- SAMPLE TYPE: Core AU - 10 GR REGULAR ASSAY.

ASSAYER: *C. Leong* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

NORTHERN DYNASTY EXPL. FILE # 88-3271 Page 1

*Acid dissolved 11 gr -
PP.*

SAMPLE#	AU oz/t
F 7461	.001
F 7462	.001
F 7463	.001
F 7464	.001
F 7465	.001
F 7466	.002
F 7467	.001
F 7468	.001
F 7469	.001
F 7470	.001
F 7471	.001
F 7472	.001
F 7473	.001
F 7474	.001
F 7475	.001
F 7476	.001
F 7477	.001
F 7478	.001
F 7479	.001
F 7480	.001
F 7481	.003
F 7482	.001
F 7483	.001
F 7484	.008
F 7485	.002
<i>If</i> F 7486	.024
F 7487	.001
F 7488	.017
✓ F 7489	.046
* F 7490	.053
F 7491	.016
F 7492	.003
F 7493	.001
F 7494	.002
F 7495	.001
F 7496	.003

11 - 4 - 5

AD
oz/t

F 7497	.001
F 7498	.003
F 7499	.006
F 7500	.017
F 7501	.008
F 7502	.003
F 7503	.015
F 7504	.003
F 7505	.004
F 7506	.002
F 7507	.001
F 7508	.001
F 7509	.001
F 7510	.001
F 7511	.001
F 7512	.001
F 7513	.001
F 7514	.001
F 7515	.001
F 7516	.030
F 7517	.023
F 7518	.003
F 7519	.029
F 7520	.002
F 7521	.001
F 7522	.001
F 7523	.015
F 7524	.056
F 7525	.066
F 7526	.034
F 7527	.096
F 7528	.007
F 7529	.001
F 7530	.001
F 7531	.001
F 7532	.001

DDH-M-88-5
 DDH-M-88-6

SS.

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

GEOCHEMICAL ANALYSIS CERTIFICATE

DDH-M-88-5
EXTRA SAMPLES

ICP - 300 GUM SAMPLES TO DIGESTED WITH 3-1-1 HCL-DI-OX-420 AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS TRACE IS PARTIAL FOR THE CR, P, LA, CR, NI, BA, ZN, W AND LIMITED FOR THE E AND AL. NO DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1 GUM P2 ROCK - ANALYSIS BY FACAL FROM 10 GM SAMPLE

DATE RECEIVED: SEP 1 1986 DATE REPORT MAILED: Sept 15/86 ASSAYER: C. L. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

NORTHERN DYNASTY EXPL. LTD. PROJECT MISEHUON FILE # 88-4306 Page 1

SAMPLE	NO	CR	FE	CO	NI	CU	MO	BA	ZN	W	LA	CR	NI	BA	ZN	W	LA	CR	NI	BA	ZN	W	LA	CR	NI	BA	ZN	W	LA
P 7601	1	136	13	206	.1	81	28	297	4.39	34	5	3	3	3	39	.28	.024	18	16	.38	5	.03	3	1.39	.03	.03	.03	.27	.025
P 7602	1	104	17	133	.1	277	43	571	6.27	72	5	2	2	2	88	1.32	.106	51	285	1.58	26	.04	2	3.44	.01	.03	.1	.1	
P 7603	1	91	6	100	.1	267	36	914	6.93	2	5	4	2	126	3.59	.100	43	364	2.33	116	.07	1	4	3.17	.02	.39	.2	.1	
P 7604	1	65	6	91	.1	229	32	788	6.08	2	5	2	2	158	3.66	.088	44	298	2.61	216	.07	3	2.88	.02	.47	.2	.1		
P 7605	1	93	6	118	.1	300	47	673	6.33	5	5	2	2	142	1.80	.109	47	461	1.73	99	.06	2	3.67	.01	.38	.1	.1		
P 7606	1	105	7	105	.1	270	51	694	7.33	45	5	2	2	112	.87	.097	45	362	1.10	23	.06	4	3.33	.01	.08	.1	.2		
P 7607	1	100	7	133	.1	264	56	616	6.17	42	5	2	2	112	.37	.035	20	155	1.21	7	.06	4	3.32	.02	.03	.3	.2		
P 7608	1	89	6	138	.1	183	51	927	6.64	6	5	2	2	137	1.74	.025	12	181	1.34	5	.05	2	3.74	.02	.03	.2	.18		
P 7609	1	82	4	128	.1	125	37	879	6.33	2	5	2	2	124	2.36	.028	18	167	1.61	7	.05	2	3.23	.01	.03	.2	.8		

DDH-M-88-6

SAMPLE AU
oz/t

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F 7534	.001
F 7535	.001
F 7536	.012
F 7537	.010
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F 7539	.001
F 7540	.001
F 7541	.029
F 7542	.002
F 7543	.001
F 7544	.003
F 7545	.039
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F 7550	.001
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F 7566	.001
F 7567	.001
F 7568	.001

	SAMPLE#	AU oz/t
DDH-11-88-6	F 7569	.001
	F 7570	.001
	F 7571	.001
	F 7572	.001
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	F 7574	.001
	F 7575	.001
	F 7576	.001
	F 7577	.001
	F 7578	.001
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	F 7582	.001
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	F 7586	.001
	F 7587	.001
	F 7588	.001
F 7589	.001	
F 7590	.001	
F 7591	.001	
F 7592	.001	

ACME ANALYTICAL LABORATORIES LTD.

DATE RECEIVED: OCT 5 1988

2 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE (604) 253-3158

FAX (604) 253-1716

DATE REPORT MAILED:

Oct. 7/88

GEOCHEMICAL ANALYSIS CERTIFICATE

- SAMPLE TYPE: Core

AN* ANALYSIS BY ACID LEACH/AA FROM 10 GR SAMPLE.

ASSAYER: *C. Leung* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

NORTHERN DYNASTY EXPL.

FILE # 88-5014

Page 1

SAMPLE#	AU* ppb
---------	------------

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F 3502	13
F 3503	7
F 3504	5
F 3505	6

F 3506	5
F 3507	230
F 3508	45
F 3509	48
F 3510	3

F 3511	7
F 3512	8
F 3513	35
F 3514	12
F 3515	1

F 3516	2
F 3517	1
F 3518	22
F 3519	1
F 3520	4

F 3521	6
F 3522	5
F 3523	1
F 3524	1
F 3525	1

F 3526	1
F 3527	1
F 3528	1
F 3529	1
F 3530	19

F 3531	9
F 3532	560
F 3533	80
F 3534	230
F 3535	73

F 3536	125
--------	-----

ND 4-M-88-6A

SAMPLE#	AU* ppb
---------	------------

F 3537	86
F 3538	24
F 3539	12
F 3540	38
F 3541	92

F 3542	7
F 3543	27
F 3544	21
F 3545	33
F 3546	88

F 3547	10
--------	----

DDH-4-33-6A

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

DATE RECEIVED: OCT 7 1988
DATE REPORT MAILED: Oct. 14/88

GEOCHEMICAL ANALYSIS CERTIFICATE

- SAMPLE TYPE: Core
AN* ANALYSIS BY ACID LEACH/AA FROM 10 GR SAMPLE.

ASSAYER: *C. Leong* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

NORTHERN DYNASTY EXPLORATION PROJECT MISEHKOW FILE # 88-5062 Page 1

SAMPLE#	AU* ppb
F 3548	10
F 3549	6
F 3550	7
F 3551	28
F 3552	16
F 3553	101
F 3554	27
F 3555	137
F 3556	430
F 3557	71
F 3558	6
F 3559	7
F 3560	132
F 3561	166
F 3562	50
F 3563	15
F 3564	410
F 3565	1
F 3566	25
F 3567	14
F 3568	65
F 3569	320
F 3570	165
F 3571	890
F 3572	710
F 3573	11
F 3574	7
F 3575	79
F 3576	65
F 3577	8
F 3578	83
F 3579	50
F 3580	1
F 3581	27
F 3582	13
F 3583	59

DDH-4-88-7

SAMPLE# AU#
ppb

F 3584	7
F 3585	58
F 3586	1195
F 3587	19
F 3588	89
F 3589	4325
F 3590	11
F 3591	45
F 3592	2
F 3593	28
F 3594	345
F 3595	375
F 3596	685
F 3597	19
F 3598	136
F 3599	2835
F 3600	6415
F 3601	1215
F 3602	1575
F 3603	695
F 3604	17
F 3605	3
F 3606	27
F 3607	1
F 3608	1

DDH-M-88-7

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

DATE RECEIVED: OCT 14 1988

DATE REPORT MAILED: *Oct 20/88.*

GEOCHEMICAL ANALYSIS CERTIFICATE

- SAMPLE TYPE: Core
AN* ANALYSIS BY ACID LEACH/AA FROM 10 GR SAMPLE.

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

NORTHERN DYNASTY EXPLORATION PROJECT MISCHKOW FILE # 88-5205 Page 1

SAMPLE#	AU* ppb
F 3609	72
F 3610	49
F 3611	6
F 3612	5
F 3613	3
F 3614	2
F 3615	1
F 3616	6
F 3617	7
F 3618	1
F 3619	5
F 3620	3
F 3621	4
F 3622	1
F 3623	13
F 3624	16
F 3625	3
F 3626	12
F 3627	7
F 3628	4
F 3629	2
F 3630	33
F 3631	8
F 3632	39
F 3633	5
F 3634	1
F 3635	5
F 3636	2
F 3637	44
F 3638	4
F 3639	2
F 3640	6
F 3641	3
F 3642	35
F 3643	1
F 3644	23

M-88-8

DDH-M-88-8

SAMPLE#	oz/t	AU ⁺	ppb	
F 3645		9		
F 3646	.033	1140	0.5m	} SERICITE SCHST + QUARTZ VENS
F 3647	.012	410	2.7m	
F 3648		91	1.4m	} IF-py ^{ol} , mag
F 3649		29		
F 3650	.021	705	1.4m	} IF-mag + 31-py
F 3651	.024	820	1.4m	
F 3652	.056	1905	1.2m	} IF-py 8%
F 3653	.008	275	1.1m	
F 3654		11		
F 3655		39		
F 3656		5		
F 3657		177		
F 3658		2		
F 3659		330		
F 3660		3		
F 3661		2		
F 3662		19		
F 3663		63		
F 3664		4		
F 3665		11		
F 3666		34		
F 3667		2		

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

DATE RECEIVED: OCT 19 1988

DATE REPORT MAILED: *Oct 24/88.*

GEOCHEMICAL ANALYSIS CERTIFICATE

- SAMPLE TYPE: Core
AU* ANALYSIS BY ACID LEACH/AA FROM 10 GR SAMPLE.

SIGNED BY *Bernard Chan* D. TOYI, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

NORTHERN DYNASTY EXPLORATION PROJECT MISEHKOW FILE # 88-5309 Page 1

SAMPLE# AU*
ppb

M-39-9

F 3668	1
F 3669	4
F 3670	4
F 3671	3
F 3672	4
F 3673	2
F 3674	1
F 3675	1
F 3676	2
F 3677	1
F 3678	1
F 3679	1
F 3680	1
F 3681	1
F 3682	3
F 3683	2
F 3684	1
F 3685	2
F 3686	1
F 3687	5
F 3688	1
F 3689	1
F 3690	2
F 3691	2
F 3692	1
F 3693	2
F 3694	12
F 3695	1
F 3696	2
F 3697	2
F 3698	10
F 3699	1
F 3700	16
F 3701	24
F 3702	11
F 3703	2

SAMPLE# AU*
ppb

F 3704 1
F 3705 2
F 3706 4
F 3707 1
F 3708 3

F 3709 2
F 3710 8
F 3711 4
F 3712 103
F 3713 132

F 3714 178
F 3715 415
F 3716 625
F 3717 1690
F 3718 2420

F 3719 440
F 3720 1055
F 3721 1450
F 3722 102
F 3723 27

F 3724 62
F 3725 805
F 3726 5
F 3727 10
F 3728 75

F 3729 15
F 3730 4
F 3731 6
F 3732 13
F 3733 98

F 3734 132
F 3735 230
F 3736 27
F 3737 13
F 3738 4

F 3739 2

.0120 127-1-138-0 0.9
.0180 132-0-179-0 1.0
.0497 137-0-140-2 1.2 } 2.5 3.0-3.5
.0712 140-4-141-9 1.4 }

.0129 151-8-152-5 3.0
.0310 144-8-147-2 3.0 } 4.3 7
.0426 147-2-149-5 3.5 }

A M-88-6
↓
M-88-10

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: NOV 22 1988
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE (604) 253-3158 FAX (604) 253-1716 DATE REPORT MAILED: Dec. 8/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp PT** PD** BY FIRE ASSAY.

SIGNED BY *C. Long*. B. TOYE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

NORTHERN DYNASTY EXPLORATION PROJECT MISEHKOW FILE # 88-5309R

SAMPLE#	PT**	PD**
	oz/t	oz/t
F 3668	.001	.001

DDH-M-88-9
SPECIAL ASSAY

SAMPLE# AU*
ppb

F 3740	1
F 3741	4
F 3742	1
F 3743	2
F 3744	1
F 3745	1
F 3746	1
F 3747	1
F 3748	1
F 3749	1
F 3750	2
F 3751	295
F 3752	83
F 3753	11
F 3754	32
F 3755	3
F 3756	7
F 3757	1
F 3758	6
F 3759	1
F 3760	1
F 3761	2
F 3762	4
F 3763	3
F 3764	1
F 3765	1
F 3766	2
F 3767	1
F 3768	1
F 3769	1
F 3770	1
F 3771	1
F 3772	3
F 3773	1
F 3774	2
F 3775	1

M-88-10

M-88-11

SAMPLE# AU*
ppb

F 3776 1
F 3777 1
F 3778 2
F 3779 5
F 3780 1

F 3781 1
F 3782 7
F 3783 1
F 3784 2
F 3785 1

F 3786 1
F 3787 1
F 3788 3
F 3789 1
F 3790 8

F 3791 4
F 3792 1
F 3793 10
F 3794 1
F 3795 1

F 3796 1
F 3797 1
F 3798 1
F 3799 5
F 3800 146

F 3801 203
F 3802 42
F 3803 35
F 3804 21
F 3805 235

F 3806 35
F 3807 4150
F 3808 16
F 3809 62
F 3810 11

F 3811 15

M-88-11
M-88-12

SAMPLE# AU*
ppb

DDH-M-88-12

F 3812 1
F 3813 1
F 3814 5
F 3815 27
F 3816 14

F 3817 3
F 3818 9
F 3819 1
F 3820 12
F 3821 5

F 3822 1
F 3823 2
F 3824 1
F 3825 13
F 3826 7

F 3827 1
F 3828 4
F 3829 1
F 3830 3
F 3831 1

F 3832 1
F 3833 1
F 3834 1
F 3835 5
F 3836 35

F 3837 12430
F 3838 245
F 3839 25
F 3840 7
F 3841 72

F 3842 4
F 3843 24
F 3844 28
F 3845 158
F 3846 73

F 3847 78

SAMPLE#	AU* ppb
F 3848	149
F 3849	10
F 3850	15
F 3851	425
F 3852	16
F 3853	5
F 3854	1
F 3855	1
F 3856	42
F 3857	1
F 3858	3
F 3859	122
F 3860	1050
F 3861	127
F 3862	111
F 3863	28
F 3864	132
F 3865	38
F 3866	325
F 3867	20
F 3868	74
F 3869	46
F 3870	22
F 3871	38
F 3872	2130
F 3873	315
F 3874	146
F 3875	69
F 3876	24
F 3877	7
F 3878	12
F 3879	104
F 3880	95
F 3881	88
F 3882	181
F 3883	7

DDH-M-88-12

SAMPLES AU
ppb

F 3884	1
F 3885	5
F 3886	1
F 3887	2
F 3888	2
F 3889	65
F 3890	1
F 3891	2
F 3892	5
F 3893	19
F 3894	76
F 3895	13
F 3896	15
F 3897	9
F 3898	235
F 3899	5
F 3900	167
F 3951	335
F 3952	172
F 3953	11
F 3954	5
F 3955	74
F 3956	195
F 3957	235
F 3958	47
F 3959	75

↑ M-55-12



REPORT: V88-07456-4

PROJECT: NONE GIVEN

PAGE: 1

SAMPLE NUMBER	ELEMENT UNITS	AU OPT
P4 F 7489		0.043
P4 F 7519		0.048
P4 F 7524		0.0344
P4 F 7527		0.084

CHECK ASSAYS
DDH-M-88-5

Misehkow

4E ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 22 1988
DATE REPORT MAILED: Nov. 25/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

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

NORTHERN DYNASTY EXPLORATION PROJECT MISEHKOW FILE # 88-5062R

SAMPLE#	AU** oz/t
F 3586	.032
F 3589	.120
F 3599	.105
F 3600	.201
F 3601	.031
F 3602	.080
F 3603	.016

DDH - M - 88 - 7
CHECK ASSAYS.

THE ANALYTICAL LABORATORIES LTD. DATE RECEIVED: NOV 22 1988
52 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE (604) 253-3158 FAX (604) 253-1716 DATE REPORT MAILED: Nov 22/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY *C. Long* D. TOTE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

NORTHERN DYNASTY EXPLORATION PROJECT MISEHKOW FILE # 88-5205R

SAMPLE#	AU** oz/t
F 3646	.030
F 3650	.016
F 3651	.024
F 3652	.053
F 3653	.011

DDM-M-88-8
CHECK ASSAYS

4/15-0504

GENERAL ANALYTICAL LABORATORIES LTD. DATE RECEIVED: NOV 22 1988
602 B. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE (604) 253-3158 FAX (604) 253-1716 DATE REPORT MAILED: Nov 28/88

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY *C. Long* B. TOYE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

NORTHERN DYNASTY EXPLORATION PROJECT MISEHKOW FILE # 88-5309R

SAMPLE#	AU** oz/t	
F 3712	.006	DDH-M-88-9 CHECK ASSAYS
F 3713	.006	
F 3714	.007	
F 3715	.011	
F 3716	.018	
F 3717	.044	
F 3718	.083	
F 3719	.018	
F 3720	.042	
F 3721	.036	
F 3722	.003	
F 3805	.006	DDH-M-88-11 CHECK ASSAYS
F 3806	.002	
F 3807	.140	

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

DATE RECEIVED: JAN 3 1989

DATE REPORT MAILED: Jan. 4/89.

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY..... *C. King* B. TOYE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

NORTHERN DYNASTY EXPLORATION PROJECT-MISEHKOW FILE # 88-5309R

SAMPLE#	AU** oz/t
F 3833	.001
F 3837	.348
F 3841	.001

MISEHKOW

DDH-M-88-12

CHECK ASSAYS

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - 300 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-2H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS TRACE IS PARTIAL FOR AN FE CR P LA CE MO SA TI B V AND LIMITED FOR BA K AND AL. NO DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Pul

DATE RECEIVED: NOV 22 1990 DATE REPORT MAILED: Nov 25/90 SIGNED BY: *C. Long* J.R.OTT, C.ELSON, J.ELSON, J.ELSON; CERTIFIED I.C. ANALYSIS

NORTHERN DYNASTY EXPL. File # 88-3271R Page 1

SAMPLE	NO	CU	FE	CO	NI	MO	W	AS	SE	CR	CD	SB	BI	V	CA	P	LA	GT	MG	BA	TI	B	AL	SA	K	V			
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM			
P 7484	1	25	3	10	3	4	2	14	28	14	5	10	3	2	1	.02	.009	48	1	.01	1	.01	6	.29	.04	.05	3		
P 7485	1	12	2	18	4	1	45	49	10	5	10	8	4	1	2	1	.22	.008	48	3	.04	3	.01	6	.39	.04	.00	4	
P 7486	2	10	14	156	4	23	6	211	1.76	2	5	10	2	4	.62	.034	14	6	.30	5	.01	17	.70	.03	.00	.00	617		
P 7487	3	6	24	136	4	22	5	235	1.36	55	5	10	7	10	1	.35	.032	35	8	.46	5	.01	20	1.28	.06	.09	10		
P 7488	2	25	16	44	2	19	4	134	.97	26	5	10	7	5	1	.38	.007	27	7	.31	3	.01	11	.47	.03	.02	5		
P 7489	1	366	14	33	8	60	61	719	10.33	32	6	3	3	1	2	.45	.35	.035	37	52	.70	4	.01	15	1.08	.01	.04	7	
P 7491	6	95	6	19	4	46	19	458	4.02	23	5	10	4	5	1	.22	.079	.026	26	25	.60	4	.01	13	1.06	.01	.06	5	
P 7492	2	61	4	11	3	16	9	232	1.75	14	7	10	10	6	1	.11	.019	47	6	.32	5	.01	14	.71	.06	.00	48		
P 7493	5	3	2	10	2	3	1	294	.33	27	5	10	11	6	1	.58	.013	64	6	.39	3	.01	15	.63	.04	.06	366		
P 7494	3	24	2	13	4	11	7	155	.93	32	5	10	10	6	1	.42	.009	52	7	.32	6	.01	15	.80	.04	.07	116		
P 7495	1	57	6	39	2	6	8	55	.61	18	5	10	10	5	1	.04	.006	66	6	.12	7	.01	2	.78	.04	.07	9		
P 7496	1	72	2	19	5	5	7	99	.63	15	7	10	10	3	1	.02	.006	43	3	.07	5	.01	11	.71	.03	.06	5		
P 7497	1	72	2	9	3	6	6	47	.63	62	5	10	10	3	1	.02	.006	46	4	.06	5	.01	10	.67	.02	.05	28		
P 7498	1	28	2	19	3	5	4	46	.66	9	4	10	9	4	1	.2	.005	46	3	.70	5	.01	7	.70	.03	.06	32		
P 7499	1	46	4	16	5	6	6	33	.67	12	5	10	10	3	1	.02	.005	39	2	.03	3	.01	13	.56	.03	.06	4		
P 7500	1	124	5	8	4	9	27	48	.72	45	5	10	8	3	1	.03	.005	37	4	.08	5	.01	6	.68	.03	.06	4		
P 7501	6	683	46	61	2.8	67	70	606	9.11	975	5	10	4	9	1	.27	1.51	.010	20	15	.49	3	.01	9	1.83	.01	.02	16	
P 7502	1	8	3	5	3	6	4	31	.33	17	5	10	10	4	1	.15	.009	52	5	.19	5	.01	8	.64	.03	.06	22		
P 7503	4	39	3	14	3	14	7	112	1.04	139	5	10	5	4	1	.4	.012	53	6	.26	9	.01	6	.51	.02	.05	7		
P 7504	3	5217	21	41	3.9	72	277	594	13.54	121	5	10	4	6	1	.61	.001	20	31	.52	20	.01	4	.87	.01	.02	2		
P 7505	6	1103	6	45	1.2	68	96	321	5.77	26	5	10	4	3	1	.23	.000	29	10	.06	17	.01	2	1.33	.01	.04	4		
P 7506	1	22	5	38	2	72	25	562	6.23	10	5	10	3	21	1	.93	1.06	.121	40	141	3.19	10	.01	16	4.98	.09	.04	1	
P 7507	1	107	6	28	4	71	19	218	3.89	39	5	10	3	12	1	.23	.043	.112	63	52	1.26	17	.02	8	2.81	.03	.12	17	
P 7508	1	9	2	8	4	26	8	183	1.25	31	5	10	8	11	1	.2	16	.29	.035	59	31	.56	12	.01	16	1.47	.03	.00	2
P 7509	2	15	8	28	2	37	10	125	1.93	59	5	10	4	9	1	.15	.29	.050	51	34	.59	17	.01	11	1.37	.02	.00	2	
P 7510	8	460	5	31	3	57	48	337	6.25	13	5	10	4	2	1	.23	.06	.013	23	23	1.04	7	.01	4	2.04	.01	.05	9	
P 7511	1	39	2	79	2	45	21	747	5.94	18	5	10	4	25	1	.65	.77	.075	25	21	.97	25	.03	10	3.23	.08	.09	1	
P 7512	1	95	9	96	2	29	27	721	8.26	941	5	10	3	45	1	.87	1.79	.072	24	25	1.16	81	.06	2	4.36	.16	.41	1	
P 7513	1	38	10	150	2	32	33	733	6.37	71	5	10	3	40	1	1.00	1.99	.003	22	13	1.23	107	.09	5	3.95	.16	.56	1	
P 7514	1	28	18	142	1	13	21	714	5.67	156	5	10	3	40	1	.88	1.70	.000	22	9	1.13	62	.06	8	3.91	.16	.35	1	
P 7515	1	71	8	109	2	14	20	559	5.66	592	5	10	3	47	1	.71	1.57	.095	24	18	1.01	31	.04	5	3.47	.15	.16	1	
P 7516	1	31	3	105	4	15	19	689	6.99	7	6	10	4	28	1	.2	1.47	.005	20	8	1.07	12	.02	9	3.46	.07	.06	1	
P 7517	1	62	37	243	8	37	14	433	3.58	19	5	10	3	16	1	.35	.94	.073	29	17	.44	7	.01	5	1.07	.04	.07	1	
P 7518	1	115	265	1071	6.3	81	38	179	4.41	4	5	10	3	12	2	.28	.06	.008	24	16	.39	12	.01	5	1.47	.04	.09	1	
P 7520	1	77	38	623	1.0	68	24	95	1.23	61	5	10	4	12	1	.11	.37	.061	17	16	.39	12	.01	10	1.07	.03	.07	1	
879 C	10	59	38	132	6.6	67	29	1000	3.05	40	22	7	38	48	17	.18	.45	.010	39	57	.01	177	.06	31	1.63	.06	.18	11	

NORTHERN DYNASTY EXPL. FILE # 88-3271R

SAMPLE	NO	CU	FE	SA	AG	MG	PI	CO	MR	ZO	AS	VB	AN	TH	EC	CD	SD	SI	V	CA	F	LA	CR	MG	BA	PL	B	AL	BO	E	V
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	
P 7521	1	126	151	1310	1.6	40	23	240	3.24	11	5	MD	3	22	2	2	2	2	25	.37	.040	17	17	.56	11	.02	0	1.72	.03	.09	2
P 7522	1	105	21	286	.6	49	19	245	2.77	25	5	MD	3	17	1	2	2	2	28	.41	.040	24	20	.32	9	.03	3	1.45	.02	.11	2
P 7523	1	300	4	130	.7	50	20	268	2.77	35	5	MD	3	9	1	2	2	2	21	.59	.010	14	14	.22	3	.03	2	1.18	.02	.03	1
P 7524	1	140	20	43	.9	40	29	396	6.76	12	7	3	3	9	1	2	2	2	21	.45	.015	14	12	.53	12	.01	9	1.09	.02	.17	6
P 7526	1	152	16	92	.7	63	31	314	4.32	41	7	2	5	10	1	2	2	2	32	.35	.010	17	10	.31	4	.03	0	1.67	.03	.00	33
P 7520	1	67	9	82	.5	213	41	378	4.31	290	5	MD	7	10	1	2	2	2	59	.30	.002	45	107	.50	11	.03	5	2.30	.04	.03	3
P 7530	1	195	2	23	.2	40	29	979	17.42	7	5	MD	1	3	1	4	2	2	90	1.17	.011	2	15	.24	1	.01	2	.27	.01	.02	1
P 7531	1	5	3	6	.5	4	1	95	.08	2	5	MD	10	3	1	2	2	2	1	.07	.006	35	4	.36	9	.01	6	.74	.02	.09	2
P 7532	1	174	9	27	.4	50	26	1112	14.34	3	5	MD	2	10	1	2	2	2	51	3.11	.030	3	54	.46	2	.01	3	.05	.03	.03	2
P 7533	1	150	13	59	.3	109	45	769	6.23	20	5	MD	2	6	1	2	2	2	159	.33	.020	2	242	2.46	3	.03	0	4.16	.04	.07	1
P 7534	1	352	9	83	.4	95	71	1000	9.42	37	5	MD	2	13	1	2	2	2	177	1.09	.019	2	190	2.73	3	.03	0	5.01	.05	.06	1
P 7535	1	80	5	27	.1	105	45	752	4.27	30	5	MD	1	12	1	3	2	2	143	.91	.021	2	204	2.26	3	.02	6	3.61	.07	.07	1
P 7536	1	97	10	52	.4	118	35	700	5.72	47	5	MD	2	11	1	3	2	2	141	1.30	.024	4	97	2.11	4	.02	0	3.50	.04	.10	1
P 7537	1	107	10	46	.3	63	30	720	9.76	2	5	MD	1	7	1	3	2	2	192	.02	.052	4	42	2.35	6	.03	3	4.39	.02	.00	3
P 7538	0	6	2	13	.2	13	7	120	1.14	7	7	MD	10	9	1	2	2	2	19	.22	.013	31	10	.19	7	.01	0	1.19	.04	.10	2
P 7539	6	4	2	6	.5	4	2	41	.42	6	7	MD	11	8	1	2	2	2	3	.12	.013	40	6	.21	5	.01	9	.71	.04	.07	3
P 7540	6	3	2	11	.1	3	1	35	.45	2	5	MD	10	7	1	2	2	2	1	.08	.009	41	4	.10	4	.01	2	.64	.03	.03	2
P 7541	1	1236	20	25	1.5	107	89	629	14.40	11	7	2	3	3	1	2	2	15	.71	.062	17	20	.75	1	.01	2	1.13	.01	.02	14	
P 7542	1	13	2	9	.1	5	2	97	.98	2	5	MD	10	8	1	2	2	2	1	.14	.007	26	4	.30	5	.01	2	.91	.04	.06	3
P 7543	2	26	2	4	.3	5	2	64	.71	2	5	MD	9	7	1	2	2	2	1	.10	.006	29	6	.22	4	.01	9	.69	.03	.06	4
P 7544	2	45	5	99	.4	90	13	307	4.95	40	6	MD	6	4	1	2	2	4	.24	.008	22	0	1.13	1	.01	0	2.41	.01	.01	3	
P 7545	3	407	37	104	.4	341	52	416	10.36	18	5	MD	2	4	1	2	2	7	.44	.009	0	13	.46	1	.01	2	.83	.01	.02	12	
P 7546	3	0	2	6	.3	5	1	42	.29	4	5	MD	10	7	1	2	2	1	.00	.000	52	4	.09	6	.01	6	.47	.03	.07	2	
P 7547	1	4	2	23	.1	4	1	22	.10	6	5	MD	9	5	1	2	2	1	.06	.006	45	4	.04	3	.01	2	.38	.04	.05	3	
P 7548	1	3	2	2	.5	4	1	24	.14	7	5	MD	9	5	1	2	2	1	.05	.005	47	3	.02	3	.01	9	.39	.04	.05	2	
P 7549	1	4	2	4	.2	6	1	26	.18	10	5	MD	9	5	1	2	2	1	.07	.006	46	6	.09	6	.01	4	.44	.03	.06	3	
P 7550	1	0	3	11	.3	7	2	170	1.02	4	5	MD	9	12	1	2	2	1	.33	.009	34	10	.53	3	.01	7	1.74	.04	.02	3	
P 7551	1	5	2	5	.3	7	1	57	.41	7	5	MD	9	6	1	2	2	1	.09	.007	52	6	.23	5	.01	6	.57	.02	.05	3	
P 7552	1	5	2	5	.3	6	2	63	.27	32	6	MD	7	6	1	2	2	1	.11	.005	44	5	.00	5	.01	4	.40	.03	.03	2	
P 7553	2	3	2	9	.5	7	7	140	.70	7	6	MD	6	12	1	2	2	2	.32	.010	102	6	.50	6	.01	6	1.26	.04	.04	2	
P 7534	2	2	2	5	.1	6	3	73	.33	9	5	MD	8	7	1	2	2	1	.15	.006	57	5	.19	8	.01	2	.70	.03	.07	2	
P 7535	3	22	2	6	.3	12	10	99	.73	21	5	MD	10	6	1	2	2	1	.13	.006	50	7	.16	9	.01	7	.70	.03	.10	2	
P 7536	1	5	3	22	.3	164	20	476	4.20	262	5	MD	7	15	1	2	2	37	.19	.010	30	243	1.16	9	.01	6	3.00	.06	.05	6	
P 7537	3	174	5	35	.4	54	36	631	16.50	230	5	MD	2	2	1	4	2	28	.09	.010	9	25	.42	2	.01	2	.30	.01	.01	5	
P 7538	1	4	2	8	.2	9	4	182	1.04	3	5	MD	9	11	1	2	2	2	.26	.006	36	7	.06	9	.01	7	1.38	.03	.05	2	
STD C	17	59	40	133	6.0	67	29	1049	3.91	41	19	7	39	40	17	20	19	99	.46	.031	40	55	.06	100	.07	35	1.84	.06	.10	11	

NORTHERN DYNASTY EXPL. FILE # 88-3271R

DATE	NO	CU	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200		
P 7500	1	5	2	5	3	113	69	11	5	10	10	9	1	1	2	2	2	1	1	19	003	49	6	51	12	01	11	09	00	10	
P 7501	1	3	5	10	1	12	309	232	52	9	14	1	2	2	2	2	2	2	2	10	011	79	10	124	6	01	7	250	04	22	
P 7502	1	4	2	15	4	21	113	193	36	9	10	1	2	2	2	2	2	2	2	23	009	79	11	76	6	01	10	160	04	9	
P 7503	1	6	2	3	2	6	56	36	31	5	10	4	1	2	2	2	2	2	1	06	009	48	5	14	6	01	7	56	04	2	
P 7504	1	2	2	5	3	4	64	40	11	5	10	4	1	2	2	2	2	2	1	03	004	46	4	00	7	01	6	52	02	05	2
P 7505	2	3	2	4	3	62	50	6	5	10	10	4	1	2	2	2	2	2	1	02	004	48	4	09	7	01	7	55	01	06	3
P 7506	2	5	2	7	1	5	70	100	4	5	10	4	1	2	2	2	2	2	1	03	004	48	4	12	6	01	2	05	01	05	2
P 7507	4	113	3	46	2	71	35	902	103	7	5	10	5	4	1	2	2	2	47	53	009	39	30	103	2	01	2	327	01	01	1
P 7508	2	2	2	6	1	7	5	48	34	8	5	10	6	1	2	2	2	2	1	07	008	58	5	16	10	01	2	64	02	00	91
P 7509	1	13	2	4	4	6	61	34	13	5	10	4	1	2	2	2	2	2	1	04	006	48	5	06	6	01	5	39	01	06	29
P 7510	1	30	2	4	3	10	7	90	33	21	5	10	5	1	2	2	2	2	1	05	007	41	6	04	6	01	5	38	01	04	3
P 7511	1	50	2	6	1	3	1	75	53	4	5	10	4	1	2	2	2	2	1	03	006	41	5	04	4	01	2	60	01	04	4
P 7512	1	9	2	9	1	3	1	62	45	4	5	10	7	3	1	2	2	2	1	02	009	39	3	03	3	01	2	33	01	02	30
P 7513	1	10	2	13	2	5	1	44	20	2	5	10	6	5	1	2	2	2	1	03	009	37	3	01	3	01	3	16	01	02	3
P 7514	1	5	3	15	4	6	1	26	19	10	5	10	4	1	2	2	2	2	1	03	009	27	3	02	4	01	7	30	01	03	3
P 7515	1	6	2	21	1	11	3	30	19	17	5	10	6	1	2	2	2	2	1	05	011	39	6	02	7	01	4	36	01	04	14
P 7516	2	22	5	11	2	9	2	30	20	5	5	10	4	1	2	2	2	2	1	02	007	38	7	01	5	01	4	23	01	03	02
P 7517	2	9	4	11	1	5	1	30	15	6	5	10	4	1	2	2	2	2	1	02	006	39	3	01	7	01	2	30	01	04	4
P 7518	1	13	2	10	1	4	1	32	17	3	5	10	4	1	2	2	2	2	1	03	007	38	4	01	5	01	2	25	01	04	4
P 7519	10	60	40	132	60	87	30	1010	397	42	21	7	40	49	17	20	60	60	17	091	41	53	06	179	07	36	109	06	19	11	

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DISSOLVED WITH 3-4% HCL-DIOP-DEO AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS ANALYSIS IS PARTIAL FOR THE ICP ELEMENTS AND LIMITED FOR Na AND Al. AN DETECTION LIMITS BY ICP IS 3 PPM.
- SAMPLE TYPE: PLS

DATE RECEIVED: NOV 21 1986 DATE REPORT MAILED: Nov 25/86 SIGNED BY: S. S. [Signature] O. 1018, C. 1008, J. 004, J. 004; CERTIFIED B.C. MATERIALS

NORTHERN DYNASTY EXPLORATION File # 88-5062R Page 1

SAMPLE	NO	CU	PB	ZN	AG	NI	CO	MR	FE	AS	U	AV	TH	BT	CD	BI	V	CO	P	LA	CT	BY	DE	TI	B	AL	SO	K	W
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
P 3552	1	112	2	41	2	68	33	585	4.08	120	3	ND	1	21	1	2	208	1.40	.022	5	233	1.79	47	.13	4	3.98	.16	1.09	3
P 3553	1	194	33	93	.4	118	43	1269	7.42	117	3	ND	1	18	1	2	194	2.72	.212	3	212	2.21	23	.19	2	4.07	.09	1.01	6
P 3554	1	184	2	107	2	123	48	677	6.73	68	3	ND	1	13	1	2	138	1.34	.029	3	181	2.18	16	.09	2	4.93	.19	.65	1
P 3555	1	123	2	66	.4	122	48	1233	6.01	50	3	ND	1	15	1	2	141	2.08	.023	2	136	1.88	17	.09	2	2.76	.08	.63	93
P 3556	1	68	4	49	.3	111	38	889	5.66	68	3	ND	1	12	1	2	184	1.99	.025	3	212	2.45	17	.08	3	3.71	.08	.66	82
P 3557	1	28	2	28	.2	118	24	489	5.46	38	3	ND	1	7	1	4	137	1.46	.029	2	179	2.18	2	.05	2	2.68	.05	.48	8
P 3558	1	8	3	19	.2	82	16	388	3.32	21	3	ND	1	13	1	2	137	2.81	.039	2	196	2.28	6	.82	2	2.13	.08	.15	2
P 3559	1	48	3	28	.3	23	17	386	18.48	2	3	ND	1	6	1	4	15	1.89	.014	2	8	.21	1	.01	2	.18	.01	.01	1
P 3560	1	154	4	27	.7	136	49	576	18.27	2	3	ND	1	3	1	4	24	.76	.011	4	82	.98	1	.01	2	.81	.01	.01	2
P 3561	1	26	14	83	.2	298	29	629	8.83	30	3	ND	2	32	2	3	113	4.52	.014	7	1354	4.33	1	.02	2	4.39	.01	.66	1
P 3562	2	14	2	18	.1	13	3	189	1.39	2	3	ND	1	9	1	2	3	1.87	.008	21	43	.34	1	.01	7	.68	.02	.68	189
P 3563	1	9	2	10	.1	9	2	181	.75	11	3	ND	1	6	1	2	1	.48	.009	28	31	.48	1	.01	2	.67	.03	.85	4
P 3564	2	4	2	5	.1	3	1	61	.33	2	3	ND	1	3	1	2	1	.18	.008	33	14	.34	1	.01	3	.72	.04	.83	1
P 3565	1	13	2	4	.1	4	2	22	.39	2	3	ND	1	10	4	1	1	.03	.006	35	3	.16	1	.01	3	.44	.02	.03	2
P 3566	2	8	2	3	.1	7	1	28	.29	7	3	ND	1	9	4	1	1	.89	.018	39	17	.18	2	.01	2	.38	.02	.83	1
P 3567	1	6	3	5	.1	11	1	61	.39	7	3	ND	1	6	4	1	1	.87	.011	29	3	.24	1	.01	3	.33	.03	.84	1
P 3568	3	4	2	2	.1	4	1	49	.28	2	3	ND	1	6	5	1	1	.28	.008	26	17	.89	1	.01	2	.35	.04	.83	6
P 3569	2	3	2	10	.1	6	1	133	.84	3	3	ND	1	7	1	8	2	.49	.015	35	3	.89	1	.01	3	1.28	.04	.83	732
P 3570	4	3	2	1	.1	5	1	68	.22	3	3	ND	1	10	5	1	1	.28	.009	38	17	.11	3	.01	3	.43	.03	.85	65
P 3571	3	31	2	14	.1	32	7	196	2.85	34	3	ND	1	5	1	2	3	.33	.018	21	4	.38	1	.01	2	.33	.02	.82	9
P 3572	3	64	2	19	.5	78	18	239	3.34	98	3	ND	1	4	1	2	2	.88	.004	2	19	.61	1	.01	2	.78	.01	.81	3
P 3573	2	64	3	18	.2	19	4	146	1.15	18	3	ND	1	3	1	2	3	.48	.003	5	3	.37	1	.01	2	.42	.02	.81	19
P 3574	2	4	2	7	.1	18	3	74	.69	16	3	ND	1	6	1	2	3	.15	.018	35	69	.43	1	.01	7	.87	.03	.86	7
P 3575	2	4	2	3	.1	9	2	68	.38	11	3	ND	1	10	7	1	2	.18	.013	34	4	.33	1	.01	3	.82	.04	.86	4
P 3576	3	6	3	.3	.1	7	2	75	.34	2	3	ND	1	10	7	1	2	.28	.020	41	16	.37	1	.01	2	.84	.03	.89	1
P 3577	1	5	2	5	.1	5	1	59	.45	9	3	ND	1	7	1	2	1	.18	.015	33	3	.34	1	.01	3	.80	.04	.87	2
P 3578	3	4	3	9	.1	9	3	83	.63	3	3	ND	1	10	7	1	2	.22	.006	31	14	.44	3	.01	9	.30	.03	.87	1
P 3579	2	6	3	9	.2	5	2	68	.54	8	3	ND	1	9	5	1	2	.13	.007	26	3	.32	1	.01	3	.70	.02	.88	8
P 3580	2	3	2	7	.1	9	8	132	.33	3	3	ND	1	14	3	2	13	.32	.073	31	23	.35	3	.01	10	1.88	.04	.87	1
P 3581	1	2	8	3	.1	8	2	26	.34	3	3	ND	1	6	4	1	1	.86	.008	35	4	.16	1	.01	2	.45	.02	.84	2
P 3582	1	7	2	4	.1	5	2	19	.33	3	3	ND	1	9	3	1	1	.84	.009	42	25	.11	1	.01	6	.43	.02	.83	2
P 3583	1	3	3	3	.1	5	1	26	.23	3	3	ND	1	10	6	1	2	.88	.011	43	3	.18	1	.01	4	.41	.03	.89	89
P 3584	1	6	2	4	.1	1	1	47	.28	2	3	ND	1	11	7	1	1	.18	.018	57	18	.21	1	.01	3	.39	.04	.84	1
P 3585	3	12	3	2	.1	7	1	24	.28	6	3	ND	1	9	3	1	1	.18	.008	37	7	.13	3	.01	3	.36	.03	.84	1
P 3586	3	289	133	134	2.7	26	38	137	3.38	38	3	ND	1	8	1	3	3	.33	.012	22	36	.25	1	.01	7	.67	.02	.87	10
P 3587	1	98	4	96	.2	30	19	184	2.36	31	3	ND	1	18	1	2	17	.22	.005	35	8	.33	3	.01	4	1.54	.04	.85	1
P 3588	3	185	27	86	.4	20	13	32	.68	63	3	ND	1	4	3	2	2	.83	.005	24	24	.64	1	.01	2	.34	.04	.84	1
P 3589	16	977	364	161	2.1	87	92	71	6.44	39	3	2	3	2	8	6	6	.89	.012	13	9	.11	1	.01	3	.40	.01	.82	2
P 3590	1	234	13	112	.2	20	18	96	1.94	219	3	ND	1	7	1	2	2	.86	.008	33	29	.12	1	.01	3	.85	.03	.85	8
STD C	17	62	48	133	6.6	67	31	1811	6.29	42	18	7	37	48	18	17	28	.87	.007	39	56	.31	175	.08	37	1.93	.06	.13	11

NORTHERN DYNASTY EXPLORATION PROJECT-NISENKOV FILE # 66-5062R

SUMMARY	NO	CA	DA	EA	FA	GA	HA	IA	JA	KA	LA	MA	NA	OA	PA	QA	RA	SA	TA	UA	VA	WA	XA	YA	Z	E	PPR				
P 3591	1	0	4	15	-1	10	6	26	-39	475	3	10	7	6	1	2	2	2	2	1	1	1	1	1	1	1	1	1			
P 3592	4	16	10	44	-1	11	3	55	-86	11	3	10	6	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1			
P 3593	3	1771	307	505	13.2	242	176	50	12.91	56	3	10	2	4	1	2	10	2	2	2	2	2	2	2	2	2	2	2	2		
P 3594	0	002	144	246	2.4	03	00	57	6.66	73	3	10	2	4	1	2	2	2	2	2	2	2	2	2	2	2	2	2			
P 3595	3	111	05	326	-6	20	17	227	2.34	563	3	10	5	8	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
P 3596	2	01	70	309	2.0	23	10	65	1.03	59	3	10	2	4	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
P 3597	3	3	4	5	-1	7	1	9	-1.6	2	3	10	6	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
P 3598	2	16	32	152	-4	49	11	43	-95	74	3	10	6	7	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
P 3599	4	240	009	660	3.4	235	42	103	6.50	1303	3	5	4	13	1	6	12	20	17	003	36	65	39	7	01	0	1.02	0.02	0.07	0.13	
P 3600	1	272	340	701	1.0	100	29	312	6.50	349	3	6	7	17	1	2	3	3	3	64	003	47	130	54	7	03	2	1.66	0.01	0.07	0.12
P 3601	2	132	013	1314	1.4	193	25	437	6.27	143	3	10	7	12	2	2	2	2	2	35	211	33	61	82	3	02	2	2.60	0.01	0.04	0.07
P 3602	1	135	231	000	1.3	135	41	440	6.31	505	3	2	7	14	1	2	12	35	29	000	41	191	1.50	6	02	12	3.11	0.01	0.05	0.09	0.13
P 3603	1	00	03	553	-2	264	40	296	3.45	700	3	10	7	10	1	2	2	2	2	22	069	69	130	70	9	02	2	2.21	0.01	0.07	0.11
P 3604	1	77	2	120	-1	317	36	506	7.37	302	3	10	6	8	1	2	2	2	2	23	057	51	236	1.11	11	03	2	3.15	0.01	0.05	0.09
PPR C	17	62	37	132	6.7	66	31	1019	6.10	61	10	7	37	40	10	10	10	10	10	46	007	40	57	89	173	06	33	1.95	0.06	0.14	0.22

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH HNO3-H2O2 AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS ANALYSIS IS PARTIAL FOR THE ELEMENTS LISTED AND IS NOT LIMITED FOR IN AND AL. AN DETECTION LIMITS BY ICP IS 3 PPM. - SAMPLE TYPE: Pulp

DATE RECEIVED: NOV 22 1986 DATE REPORT MAILED: Nov 26/86 SIGNED BY: C. [Signature] . P. WIS, C. LAMON, J. CLAW, J. RANG; CERTIFIED I.C. ANALYSTS

NORTHERN DYNASTY EXPLORATION FILE # 88-5014R

Table with columns: SAMPLE, NO, CU, PB, ZN, AG, BI, CO, NI, MN, FE, ST, CD, MO, NI, V, CO, P, LA, CT, HG, BA, TI, B, AL, Pb, I, Y. Rows include sample numbers 3301 through 3337 and 3338 through 3342, with corresponding analytical data for each element.

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

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3+1-2 HCL-HNO3-P2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS TRACE IS PARTIAL FOR MS CR P LA CR MS SA VI V AND LIMITED FOR BA E AND AL. AN DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Pulp

DATE RECEIVED: NOV 21 1988 DATE REPORT MAILED: Nov 25/88 SIGNED BY: *[Signature]* . . . J. POTI, C. LEONG, S. CHAN, J. KING; CERTIFIED S.C. ASSAYERS

NORTHERN DYNASTY EXPLORATION PROJECT MISEHUON FILE # 88-4306R

SAMPLE NO	CR	FB	BA	LA	CO	MS	SA	VI	V	TH	CR	CD	DB	BA	CT	MO	SI	AL	FE	ZN						
PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM						
7401	1	135	19	193	.1	74	27	200	4.00	31	3	3	3	34	.25	.021	10	17	.34	6	.02	3	1.25	.02	.00	16
7402	1	101	23	123	.1	203	42	555	6.20	67	3	3	3	82	1.35	.101	30	290	1.40	10	.03	2	3.12	.01	.06	1

NORTHERN DYNASTY EXPLORATION PROJECT MISEHKOV FILE # 88-5309R

DATE	NO	CU	FD	SD	AG	BL	CO	HO	NO	FO	AO	V	AU	TA	ST	CD	DB	BI	V	CA	P	SA	CT	MG	DA	TI	B	AI	BA	E	V
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	
P 3754	2	50	30	71	-3	210	46	190	2.05	204	5	RD	0	15	1	2	3	43	-28	-006	52	151	-72	17	-03	9	1.78	-04	-07	1	
P 3755	2	71	16	399	-3	197	30	342	6.72	02	5	RD	2	7	1	2	4	91	-03	-004	32	231	1.53	6	-04	10	2.75	-03	-04	1	
P 3756	3	37	5	93	-3	64	15	64	-09	09	5	RD	0	6	1	2	2	11	-07	-010	16	30	-16	2	-01	7	-77	-03	-03	1	
P 3757	1	85	11	265	-2	107	37	325	9.04	40	5	RD	5	11	1	2	4	269	1.24	-146	16	57	1.09	2	-03	2	2.37	-03	-03	1	
P 3758	2	54	40	495	-3	168	36	194	2.69	126	5	RD	6	19	1	2	2	55	-41	-086	24	93	1.02	17	-03	7	1.75	-05	-06	1	
P 3759	1	99	17	192	-4	235	36	431	5.93	27	5	RD	0	21	1	2	2	103	-77	-124	97	326	1.57	17	-05	4	3.02	-03	-04	1	
P 3760	3	65	23	67	-2	106	35	193	2.26	19	5	RD	7	20	1	2	3	36	-23	-031	31	89	-60	17	-02	11	1.81	-09	-06	2	
P 3761	1	77	6	107	-1	106	31	706	6.70	13	5	RD	2	20	1	2	2	110	3.24	-021	4	150	2.12	3	-04	2	3.54	-02	-02	1	
P 3762	1	106	5	109	-1	144	45	622	6.97	20	5	RD	3	9	1	2	2	125	1.00	-010	7	169	1.69	2	-09	3	3.26	-02	-02	1	
P 3763	2	63	3	60	-1	136	40	604	4.25	123	5	RD	4	10	1	7	2	77	1.01	-023	16	131	1.27	9	-01	3	2.23	-03	-03	072	
P 3764	3	91	9	117	-2	221	52	309	3.25	164	5	RD	5	14	1	2	3	79	-34	-004	26	146	1.51	6	-02	9	2.91	-04	-03	9	
P 3765	1	86	10	163	-1	106	46	602	6.29	71	5	RD	1	12	1	2	2	106	1.59	-025	8	156	1.20	4	-04	2	3.19	-02	-04	2	
P 3766	1	40	9	110	-1	179	39	730	7.40	127	5	RD	7	20	1	2	2	85	1.76	-117	48	254	1.33	12	-03	2	3.10	-01	-04	1	
P 3767	1	12	6	60	-1	12	5	295	1.63	2	5	RD	10	29	1	2	2	25	-70	-023	40	34	-132	235	-09	2	1.29	-03	1.16	1	
P 3768	3	8	6	54	-1	21	4	220	1.10	2	5	RD	9	9	1	2	2	15	-44	-013	41	37	1.00	104	-07	2	1.07	-02	1.20	1	
P 3769	4	8	11	7	-3	9	2	20	-36	7	5	RD	9	9	1	2	2	1	-15	-004	44	5	-07	17	-01	9	-31	-02	-10	2	
P 3770	2	12	7	49	-1	36	8	215	1.37	2	5	RD	10	18	1	2	3	20	-70	-029	41	53	1.06	79	-09	2	1.16	-03	1.26	1	
P 3771	4	6	7	63	-6	3	32	-63	5	5	5	RD	7	3	1	2	2	1	-26	-004	38	4	-10	12	-01	7	-25	-02	-11	1	
P 3772	6	8	10	23	-3	8	1	18	-30	9	6	RD	7	3	1	2	2	1	-23	-004	47	3	-02	13	-01	6	-17	-02	-09	2	
P 3773	2	9	4	46	-3	8	2	39	-31	3	5	RD	7	9	1	2	2	1	-24	-006	51	9	-12	23	-01	5	-27	-02	-11	2	
P 3774	2	9	4	42	-3	8	1	30	-29	2	5	RD	7	9	1	2	2	1	-12	-009	37	6	-14	13	-01	9	-34	-01	-13	2	
P 3775	2	19	8	282	-1	46	10	405	2.62	4	5	RD	7	22	1	2	2	39	-95	-034	95	99	1.66	240	-14	2	1.70	-03	1.66	1	
P 3776	1	30	5	197	-1	64	15	512	3.14	2	5	RD	6	35	1	2	2	63	1.51	-066	24	135	2.53	474	-22	3	2.47	-04	2.45	1	
P 3777	1	7	102	210	-3	8	3	1431	1.76	10	5	RD	2	69	1	2	2	9	19.90	-011	12	11	3.04	39	-02	7	-73	-01	-23	1	
P 3778	1	6	21	240	-3	5	2	1002	1.59	5	7	RD	1	66	1	2	2	6	21.15	-008	13	8	2.57	11	-02	8	-00	-02	-23	1	
P 3779	1	21	31	94	-1	19	10	2630	4.59	5	5	RD	6	92	1	2	2	30	0.66	-043	24	27	1.44	156	-14	4	2.97	-09	1.75	4	
P 3780	1	13	45	134	-1	15	6	3681	2.14	17	5	RD	4	63	1	2	2	10	14.30	-013	18	15	1.10	14	-09	6	1.60	-06	-43	1	
P 3781	1	12	100	137	-1	19	6	2329	2.59	7	5	RD	6	64	1	2	2	17	15.11	-014	19	16	1.04	36	-06	2	1.90	-06	-50	4	
P 3782	1	10	6	70	-1	11	8	357	3.54	3	5	RD	7	8	1	2	3	26	-63	-008	34	21	-42	83	-11	6	1.49	-02	-99	1	
P 3783	2	9	9	117	-1	10	11	321	2.57	10	5	RD	0	27	1	2	2	10	-60	-023	31	17	-77	69	-03	5	1.93	-05	-30	1	
P 3784	1	10	20	60	-1	14	5	2360	2.76	24	5	RD	3	69	1	2	2	9	16.45	-011	9	19	-96	13	-02	4	-95	-01	-10	3	
P 3785	1	7	35	253	-1	5	3	2731	1.66	14	5	RD	3	56	1	2	2	5	14.18	-008	21	4	3.52	10	-02	7	-76	-01	-25	9	
P 3786	1	15	17	119	-1	14	7	2475	2.96	55	5	RD	3	61	1	2	2	16	12.49	-023	16	25	-99	32	-03	3	1.66	-06	-43	3	
P 3787	1	13	20	67	-1	18	10	2007	3.47	124	5	RD	5	80	1	2	2	19	6.79	-029	23	14	-02	35	-09	4	2.35	-06	-39	1	
P 3788	1	52	69	44	-7	26	11	6287	3.66	6	5	RD	7	31	1	2	2	13	2.34	-034	31	45	-64	7	-01	2	1.20	-01	-04	9	
P 3789	3	99	30	243	-6	41	22	432	2.20	7	5	RD	6	9	1	2	2	8	-14	-015	16	13	-35	11	-01	5	-08	-02	-10	1	
P 3790	1	63	65	373	-5	62	28	252	3.30	6	5	RD	4	15	1	2	2	31	-26	-013	25	53	-74	8	-03	3	1.72	-03	-05	1	
END C	10	50	41	132	7.2	67	29	1018	3.09	40	19	7	40	46	17	20	10	59	-46	-090	39	55	-07	177	-07	32	1.67	-06	-13	12	

NORTHERN DYNASTY EXPLORATION PROJECT WISEHKOW FILE # 88-5309R

WELL	NO	CU	FD	LD	AY	HI	CO	IN	TA	AL	W	JA	TH	ST	CD	SD	SI	V	CA	P	LO	CR	MG	BA	TA	B	AI	SA	E	V
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH
P 3001	1	00	2	0	.2	50	24	163	2.93	1161	5	ND	4	11	1	2	2	16	.10	.037	21	26	.13	5	.01	6	1.66	.02	.03	1
P 3002	1	216	62	9	.4	63	35	101	3.51	2221	5	ND	3	0	1	2	2	16	.10	.038	15	32	.09	3	.01	6	1.66	.02	.03	1
P 3003	1	0	2	3	.1	63	17	82	.63	133	5	ND	4	0	1	2	3	9	.09	.027	36	21	.03	4	.01	2	.73	.02	.03	1
P 3008	1	7	6	235	.4	30	5	61	.61	130	5	ND	12	5	1	2	3	1	.03	.006	67	4	.10	12	.01	7	.34	.02	.12	1
P 3009	1	00	15	379	.4	72	22	64	1.29	622	5	ND	4	7	1	2	3	7	.10	.026	28	12	.17	7	.01	9	.72	.03	.00	1
P 3000	1	43	14	323	.2	41	17	305	2.76	92	5	ND	6	42	1	4	2	21	.73	.076	66	17	.00	20	.01	10	2.24	.09	.09	309
P 3001	1	37	116	267	.3	191	31	309	3.77	35	5	ND	6	12	1	2	3	32	.32	.067	36	22	.68	14	.03	3	1.74	.63	.10	3
P 3002	1	46	5	66	.1	217	52	276	3.21	152	5	ND	6	20	1	2	2	32	.40	.001	42	41	.60	14	.03	2	1.03	.09	.10	21
P 3003	1	24	12	70	.2	44	14	436	3.20	4	5	ND	0	15	1	2	2	17	.33	.004	39	4	.77	19	.02	0	1.00	.03	.11	1
P 3004	1	00	4	69	.2	167	20	536	6.24	42	5	ND	5	23	1	3	3	59	.33	.019	26	04	.42	9	.03	4	2.14	.03	.07	1
P 3005	1	94	5	87	.2	321	42	595	7.07	29	5	ND	5	17	1	2	2	106	.42	.071	39	247	1.26	6	.03	2	2.00	.02	.06	1
P 3006	1	93	12	79	.4	162	20	208	4.07	10	5	ND	6	25	1	2	2	66	.46	.001	97	103	.04	31	.03	0	1.61	.04	.14	1
P 3007	1	04	6	92	.3	255	30	700	7.96	30	5	ND	6	46	1	2	2	148	2.82	.117	45	371	1.01	114	.03	4	2.40	.09	1.33	4
P 3008	1	70	2	107	.2	231	38	648	7.92	39	5	ND	0	13	1	2	2	42	.39	.044	45	230	1.10	35	.04	5	2.18	.02	.12	2
P 3009	1	57	5	76	.2	111	25	351	3.93	7	5	ND	6	13	1	2	2	35	.34	.063	37	66	.02	33	.04	5	1.37	.04	.11	1

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - 500 GRAM SAMPLES IS DIGESTED WITH 3ML 30% HCL-DMSO-820 AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR THE CR, CO, NI, CU, P, LA, CE, Hg, AS, Y, B AND LIMITED FOR Mn, K AND AL. NO DETECTION LIMITS BY ICP IS 3 PPM. - SAMPLE TYPE: P14

DATE RECEIVED: NOV 22 1988 DATE REPORT MAILED: Nov 24/88 SIGNED BY: C. [Signature] D. [Signature] S. [Signature] J. [Signature] J. [Signature] CERTIFIED B.C. ANALYST

NORTHERN DYNASTY EXPLORATION PROJECT-MISCHKON FILE # 88-5205R

SAMPLE	NO	CR	CO	NI	CU	P	LA	CE	Hg	AS	Y	B	AL	K	Mn															
P 3633	2	5	2	6	-1	4	1	98	30	2	5	ND	10	6	1	2	4	1	34	7	.01	5	.08	.02	.02	6				
P 3637	2	5	38	88	-1	53	11	585	3.38	29	5	ND	1	17	1	2	2	91	3.66	.007	5	79	2.86	3	.01	2	1.77	.01	.03	3
P 3646	1	925	353	1008	3.3	209	82	1896	9.32	35	5	ND	1	17	2	2	2	453	3.98	.009	9	30	1.98	10	.01	2	1.17	.01	.01	20
P 3647	1	15	15	49	-2	41	11	341	2.28	38	5	ND	2	8	1	2	2	45	1.16	.056	13	7	.45	7	.01	2	1.08	.01	.02	1
P 3648	1	771	363	878	1.0	390	74	808	9.92	35	5	ND	1	12	2	2	2	273	2.58	.066	18	87	1.07	2	.01	2	.01	.01	.01	14
P 3649	1	56	17	188	-1	83	20	239	3.42	32	5	ND	6	6	1	2	2	110	.46	.054	21	12	.75	7	.01	2	1.53	.02	.03	2
P 3650	1	198	7	48	-2	53	24	579	3.56	282	5	ND	1	18	1	2	2	17	1.56	.019	4	8	.52	7	.01	2	.48	.01	.01	259
P 3651	1	267	118	36	-8	73	83	418	6.11	208	5	ND	1	9	1	2	2	45	1.51	.042	8	10	.40	7	.01	5	1.16	.01	.01	6
P 3652	2	587	29	22	-9	112	123	201	6.16	333	5	ND	1	5	1	2	2	24	.33	.027	8	27	.32	3	.01	6	1.03	.01	.01	9
P 3653	2	1192	186	16	1.2	187	160	115	6.23	361	5	ND	2	3	1	2	2	13	.18	.011	7	14	.18	6	.01	2	.52	.01	.01	3
P 3654	1	161	12	213	-2	282	54	439	6.84	114	5	ND	6	9	1	2	2	71	.42	.068	39	282	.99	15	.03	2	2.57	.01	.03	1
P 3655	6	97	68	232	-3	268	58	638	6.88	95	5	ND	2	15	1	2	2	82	1.57	.036	17	136	1.38	12	.03	3	2.03	.01	.03	1
P 3656	1	91	6	128	-1	171	85	778	7.35	65	5	ND	3	23	1	2	2	181	2.67	.058	28	199	1.58	12	.02	2	3.46	.01	.02	1
P 3657	1	62	5	86	-1	85	24	717	5.56	28	5	ND	3	29	1	2	2	46	2.16	.049	16	71	.79	11	.02	2	2.24	.02	.04	3
P 3658	2	52	2	122	-2	115	42	1122	7.17	7	5	ND	3	32	1	2	3	118	3.98	.055	19	137	.72	7	.05	4	2.98	.01	.02	1
P 3659	1	64	8	82	-2	66	21	628	6.59	6	5	ND	4	37	1	2	2	45	2.33	.047	18	61	.81	13	.02	3	1.98	.02	.03	1
P 3660	1	86	24	192	-1	118	58	762	7.34	5	5	ND	2	23	1	2	2	189	2.62	.059	16	124	.78	7	.06	2	2.92	.01	.02	1

GEOCHEMICAL ANALYSIS CERTIFICATE

Standard
NISEL

NOTE - ALL SAMPLES IS DIGESTED WITH 3:1 H₂O₂ : HNO₃ AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LABOR IS PARTIAL FOR THE USE OF LA OR IN THE USE OF LA AND LIMITED FOR THE USE OF LA AND AL. AN INSTRUCTION LIST BY THE LA IS PROVIDED.
- SAMPLE TYPE: SOIL/SAND - ANALYSIS BY FULL FROM 10 OR SAMPLE.

DATE RECEIVED: JUL 18 1998 DATE REPORT MAILED: July 23/98 ASSAYER: *S. J. ...* D. TOYE OR C. LORING, CERTIFIED B.C. ASSAYERS

NORTHERN DYNASTY EXPLORATION PROJECT KASIN LAKE File # 88-2773

SAMPLE	As	Cd	Co	Cr	Pb	Bi	Ca	Fe	Mn	Ni	Na	Se	Sr	Zn	Ag	Al	Ar	Ba	Br	B	Cu	Ga	Hg	I	K	Li	Mg	P	Rb	S	Si	Ta	Tl	V	W	X	Y	Zr	
288-02	1	25	12	110	1	32	8	205	2.96	9	3	13	2	2	43	.36	.000	13	43	.38	37	.06	11	2.23	.01	.22	1	1											
288-03	3	323	7	72	3	164	26	757	10.76	13	7	4	1	6	41	.06	.012	2	32	.74	7	.07	6	2.70	.01	.01	2	40											
288-04	1	72	6	23	1	20	4	277	6.93	12	5	2	1	2	4	.19	.02	.005	2	.23	13	.01	6	.19	.01	.04	2	14											
288-05	1	60	10	28	1	60	56	562	19.44	42	5	1	1	2	2	.10	.03	.019	2	.16	7	.01	6	.36	.01	.01	1	34											
288-06	3	37	16	66	1	7	2	556	14.66	119	5	10	2	11	3	.66	.21	.216	2	.15	.32	14	.00	9	1.22	.01	.08	1	44										
288-07	3	282	2	82	1	44	8	817	5.96	9	5	10	2	3	22	.20	.046	4	37	.33	2	.06	6	1.40	.01	.01	1	12											
288-08	1	55	2	10	1	61	62	261	5.33	10	5	10	1	2	2	.22	.09	.008	2	.22	.15	2	.01	6	.21	.01	.02	1	10										
288-09	7	303	13	87	1.2	226	130	636	19.15	22	6	2	1	2	4	.23	.03	.019	9	135	1.14	5	.01	6	2.19	.01	.09	3	32										
288-10	1	53	9	126	1	70	35	1056	9.39	3	5	10	4	3	143	1.76	.038	17	157	1.33	18	.07	7	3.90	.02	.04	1	3											
288-11	1	74	7	179	1	143	35	1166	11.30	9394	5	10	2	2	2	.70	.19	.050	19	85	1.43	42	.01	9	3.81	.01	.09	1	82										
288-12	1	21	4	84	1	93	24	1031	7.84	48	5	10	3	2	45	2.86	.048	13	69	1.09	21	.01	12	2.41	.02	.09	6	7											
288-13	1	137	12	66	1	10	17	333	6.33	69	5	10	3	2	41	.01	.005	8	34	.53	11	.01	6	1.70	.01	.08	1	38											
288-14	3	181	9	48	1.3	10	6	59	1.30	468	5	10	2	2	3	.02	.003	7	5	.07	11	.01	11	.31	.01	.04	1	23											
288-15	2	33	5	4	1	7	5	48	1.19	1226	5	10	2	2	3	.01	.003	7	3	.04	13	.01	4	.31	.01	.08	2	232											
288-16	1	19	7	22	1	9	3	82	1.96	76	5	10	2	2	3	.03	.002	7	6	.18	7	.01	3	.48	.01	.05	1	25											
288-17	1	8	6	14	1	6	2	239	6.03	12	3	10	1	1	2	.02	.006	2	1	.03	1	.01	3	.43	.01	.01	2	7											
288-18	1	9	12	7	1	3	6	32	2.14	60	5	10	1	2	4	.01	.002	8	3	.01	8	.01	8	.22	.02	.07	1	3											
288-19	3	19	10	4	1	3	3	19	1.10	7006	3	10	2	2	1	.01	.002	6	1	.01	15	.01	15	.06	.01	.05	1	39											
288-20	2	16	6	6	1	3	2	23	.72	186	3	10	1	2	2	.01	.004	12	3	.01	27	.01	2	.23	.01	.09	1	71											
288-21	2	29	11	34	1	8	3	63	1.27	62	6	10	2	3	3	.01	.005	11	7	.08	10	.01	13	.44	.01	.07	1	6											

APPENDIX 4

DIAMOND DRILL LOGS / LOCATION MAPS / SECTIONS

(In separate volume)

APPENDIX 5

AUTHOR'S CERTIFICATION

AUTHOR'S CERTIFICATION

I, Jerry W. Ho, of 1334 Woodbine Ave, Toronto, Ontario, hereby certify as follow:

1. That I graduated from the University of Toronto with a Bachelor of Science Degree in geology in 1987.
2. That I have practised my profession continually since that time.
3. That I participated in the field work and co-authored this report based on the 1988 field program on the Misenkow River property.

Jerry W. Ho

Jerry W. Ho, B.Sc.

APPENDIX 4

MISEHKOW RIVER PROPERTY

1988 Diamond Drill Logs, Location Maps, and Sections

Holes M-88-1 to M-88-12

To Accompany:

MISEHKOW RIVER PROPERTY

1988 Field Report

Written by:

G. Gorzynski, M.A.Sc., P.Eng.
J. W. Ho, B.Sc.

NORTHERN DYNASTY EXPLORATIONS LTD.

March, 1989

Diamond Drill Record

COLLAR: <u>1-ADN</u>		HOLE SURVEY	
NORTH	EAST	FOOTAGE	AZIMUTH
	<u>400 W</u>	<u>158.2m</u>	<u>-43</u>
ELEVATION		<u>216.1</u>	<u>-41</u>
LOGGED BY		<u>274.0</u>	<u>-38</u>
DATE LOGGED		<u>313.6</u>	<u>-37</u>
MAP REFERENCE		METHOD: <u>ACID</u>	

COMPANY NAME NORTHERN DYNASTY EXPLORATIONS LTD
 PROPERTY NAME MISHKAW RIVER PROPERTY
 DRILLING CONTRACTOR LAUSLEY DRILLING / BRAMPTON, ONT.
 ASSAYER ACME ANALYTICAL LABS / VANCOUVER, B.C.
 PURPOSE OF HOLE 1. CONTINUATION OF DRILLHOLE M-88-6
2. To Test Extension of Mineralization in DDH-A-88-5.

HOLE NO. M-88-6A
 CLAIM NAME B. B.V. 702
 COMMENCED SEPT. 18, 1988
 FINISHED SEPT. 21, 1988
 PROJECT NO. MIS

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS
				FROM	TO	
			<u>SUMMARY LOG</u>			
			<u>DRILLED AND LOGGED AS DRILLHOLE M-88-6.</u>			
			<u>SERICITE - QUARTZ EYE SCHIST</u>			
			<u>ALTERED BASALT (?)</u>			
			<u>SERICITE - QUARTZ EYE SCHIST</u>			
			<u>CHLORITE - IRON CARBONATE - SERICITE SCHIST</u>			
			<u>SERICITE - CHLORITE SCHIST</u>			
			<u>SERICITE SCHIST - CLAST BRECCIA</u>			
			<u>CHLORITE - BLUE QUARTZ EYE - GARNET SCHIST</u>			
			<u>SERICITE - CHLORITE SCHIST</u>			
			<u>SERICITE - BICHITE SCHIST</u>			
			<u>SERICITE - BLUE QUARTZ EYE SCHIST / BRECCIA</u>			
			<u>CHLORITE - SERICITE SCHIST</u>			
			<u>GABBRO / GABBRO BASALT</u>			
			<u>BASALT</u>			
			<u>BIOTITE SCHIST</u>			
			<u>BASALT</u>			
			<u>END OF HOLE</u>			

COMPANY NAME _____

PROPERTY NAME _____

DRILLING CONTRACTOR _____

ASSAYER _____

PURPOSE OF HOLE _____

COLLAR: _____

NORTH _____

EAST _____

ELEVATION _____

LOGGED BY _____

DATE LOGGED _____

MAP REFERENCE NO. _____

HOLE SURVEY

FOOTAGE	AZIMUTH	DIP

METHOD: _____

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS
				FROM	TO	
0.0	1532		PREVIOUSLY DOWNED AND LOGGED AS DOWNHOLE M-PP-6			
1532/1642			Seccite-Quartz-Eve Schist; Light grey to off-white with common orange iron carbonate stain; 2-15% rounded, elongate white and locally blue quartz-gneiss (5-2 mm long) in very siliceous seccitic matrix; relatively homogeneous; iron-magnetic; mod. to well foliated at 40° to s.d.; Downhole contact steep at 65° to s.d. parallel to foliation.			
			Alteration: This entire unit is probably a highly siliceous and seccitic alteration zone; 2-15% orange iron-carbonate on healed fractures and disseminations (note - Previous notes of "orange serpentine" are in fact iron-carbonate)			
			Mineralization: Pyrite (± Pyrrhotite) <1% disseminated and on fractures			

WISCONSIN STATE RECORD
 PAGE 1 OF 1
 HOLE NO. 19-88-24
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

COMPANY NAME _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE SURVEY
 FOOTAGE AZIMUTH DIP

 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. _____
 METHOD: _____

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS		
				FROM (m)	TO (m)		WIDTH (m)	NO.
164.2	166.8		Alford Basalt (?): light grey to med. green-grey; relatively homogeneous; fine to med. grained; ≤ 10% chlorite and ≤ 5% biotite in matrix; quartz-siderite matrix; 5.5% d.s. calcite; 5.8% amorphous iron-carbonate, as diss. and on fractures; also magnetic; partly to med. foliated at 60° to s.d.; Downhole contact across 3mm foliation; parallel micritic ganges; Alteration: Med. to intensely bleached throughout - local iron-carbonate	164.2	166.8	2.6	3503	Atk Fpb 7
166.8	179.2		See also - Quartz Eye Schist; Similar to 158.2-164.2 Gradationally light grey, off white and dark grey; 5-15% white, chert and blue quartz-eyes; Med. to well foliated at 55° to s.d.; Sparse foliation visible about small scale (≤ 1cm) isoclinal folds present; 166.8-174.7: very siliceous; 174.7-178.2 m: Med. to Non-Siliceous; 178.1-179.2m: Broken core, 40% recovery, local geyse recovered	166.8	166.8	2.2	3504	5
				169.0	171.7	2.7	3505	6
				171.7	174.7	3.0	3506	5
				174.7	176.4	1.7	3507	230
				176.4	178.1	1.7	3508	45
				178.1	179.2	1.1	3509	48

LIMBOND WIND RECORD

COLLAR NORTH EAST ELEVATION LOGGED BY DATE LOGGED MAP REFERENCE NO.

HOLE SURVEY FOOTAGE AZIMUTH DIP

METHOD:

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. *M-PP-6A*
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVERY	DESCRIPTION	SAMPLE			ASSAYS		
				FROM	TO	WIDTH	NO.		
			Increasingly chloritic downhole; Downhole contact gradational over 1.5m(?) in broken core Alteration: This entire unit is probably a siderite and sericitic alteration zone. - 5.3% orange iron carbonate on heated fractures and diss. Mineralization: Pyrite: <1% - diss. and on fractured						
179.2	181.0		Chlorite - Iron Carbonate - Sericite Schist: Gradationally interbedded (1-20 cm wide) dark green (chlorite), orange iron-carbonate-rich, and light green (sericitic) sections; Non-magnetic; Mod. to well foliated at 55° to S.D.; Downhole contact in broken core. Alteration: Probably a micrized and iron-carbonate- altered basalt; Small 15% iron carbonate Mineralization: Pyrite: <1% small; locally 5% in some chloritic sections - diss. and on fractures.	179.2	181.0	1.8	3510	3	

DIAMOND LOG RECORD

HOLE SURVEY:
 FOOTAGE AZIMUTH DIP
 EAST
 ELEVATION
 LOGGED BY
 DATE LOGGED
 MAP REFERENCE NO.

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO.
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		NO.	ASSAYS		
				FROM (m)	TO (m)				
181.0	192.6		Seeicite - Chlorite Schist: Alternating light green, dark green, light grey and white bands (0.2-3 cm wide); Non-carbonate, locally magnetic (pyrrhotite); well foliated at 60° to c.d. with local kinks; down hole contact in zone of quartz veining; Alteration: Possibly a variably bleached basalt; Mineralization: Sulphides generally < 1% 181.7-182.8 m: quartz veins - 5%, pyrite < 1% (locally 2%) chalcoprite/galena - trace on fractured 182.8-183.9 m: quartz-veins / amphiboles < 1% 183.9 - 185.3 m: quartz-veins - 15% - 5/1 cm wide - pyrite < 1% - diss and cherts 185.3 - 188.2 m: quartz-veins 2% - pyrite < 1% 188.2 - 189.3 m: quartz-veins - 2%, pyrite < 1% 189.3 - 192.6 m: quartz-veins - 15% - pyrite / pyrrhotite: < 1% - mainly in veins - minor blue quartz - eyes	181.0	182.8	1.8	3511	7	
				182.8	183.9	1.1	3512	8	
				183.9	185.3	1.4	3513	35	
				185.3	187.0	1.7	3514	12	
				187.0	188.2	1.2	3515	1	
				188.2	189.3	1.1	3516	2	
				189.3	191.0	1.7	3517	1	
				191.0	192.6	1.6	3518	22	

LIAMONG MATHI RECORD

PAUSE 6 ON 117

HOLE NO. 19-15-61
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

COMPANY NAME _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

COLLAR: _____
 NORTH _____
 EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. _____

HOLE SURVEY
 FOOTAGE AZIMUTH DIP

METHOD: _____

FROM	TO	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS			
				FROM	TO		WIDTH	NO.	
192.6	196.3		Sericite Schist. Clast Breccia: 60% light green elongate (0.2-2cm long), rounded sericite schist clasts and 10% blue quartz eyes (1mm diam.) in light to med grey-green sericite matrix; locally similar to the "Quartz Fragment Breccia" in DEWOLF M-88-5; Non-calcareous, Non-magnetic; Well foliated at 60° to c.a.; Downhole contact gradational over 10 cm.	192.6	194.4	1.8	3511	1	
196.3	197.2		Chlorite - Blue Quartz - Eye - Garnet Schist: 15% blue quartz eyes (5.2mm dia) and 6% ragged pink garnets (5.4mm dia) in a dark green chlorite and locally sericite matrix; Non-calcareous, Med. magnetic (pyrrhotite); Well foliated at 65° to c.a.; Downhole contact gradational over 10 cm; ≤30% Sericite schist breccia clasts evident as 192.6-196.3m	196.3	197.2	0.9	3521	6	
			Alteration: Possibly a brecciated and healed sericite alteration zone						
			Mineralization: Brite ss 1% - diss. and on fractures						
			Alteration: Sericitized breccia clasts?						

LIAMONU DRILL RECORD

COLLAR: NORTH _____ EAST _____ ELEVATION _____ LOGGED BY _____ DATE LOGGED _____ MAP REFERENCE NO. _____

HOLE SURVEY	
FOOTAGE	AZIMUTH DIP

METHOD: _____

COMPANY NAME _____ PROPERTY NAME _____ DRILLING CONTRACTOR _____ ASSAYER _____ PURPOSE OF HOLE _____

NOTE NO. M-88-6A CLAIM NAME _____ COMMENCED _____ FINISHED _____ PROJECT NO. _____

FROM	TO	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS				
				FROM TO	WIDTH NO.					
218.4	233.4		Chlorite - Sericite Schist: 60% bands of dark green chlorite schist and basalt intercalated with 40% light grey sericitic bands (1-80 cm wide); locally calcareous (mass calcite/dolomite) - 15% disc calcite at 227.1-227.8m locally magnetic (pyrrhotite); dip. to well foliated @ 50° to C.A.; downhole contact gradational over 20cm; 223.9 - 224.2m - fault gouge	218.4	219.7	1.3	3533	80	74%	
				219.7	220.6	0.9	3534	230		
				220.6	222.1	1.5	3535	73		
				222.1	223.6	1.5	3536	125		
				223.6	224.9	1.3	3537	86		
				224.9	226.4	1.5	3535	24		
				226.4	227.8	1.4	3537	18		
				227.8	229.0	1.2	3540	38		
				229.0	230.3	1.3	3541	92		
				230.3	231.7	1.4	3542	7		
				231.7	233.4	1.7	3543	27		
			Alteration is probably a variably sericitized basalt. This unit represents the gradational edge of the Main Alteration Zone.							
			Mineralization: 218.4-219.7m: quartz veins 5% pyrite 2% - disc and chpts often in veins pyrrhotite 1% - disc and chpts often in veins							
			219.7-220.6m: quartz veins 20%, pyrite 5% (as above) pyrrhotite 1%, chloropyrite - trace							
			220.6-222.1m: quartz veins 7%, pyrite 3%, pyrrhotite 1%							
			222.1-226.4m: quartz veins 3%, pyrite 2%, locally 5% associated with quartz veins, pyrrhotite 1%							

LITHOLOGIC LOG RECORD

HOLE NO. 01-88-6A
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

COMPANY NAME _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

COLLAR: NORTH _____ EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. _____

HOLE SURVEY	
FOOTAGE	DIP

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS	
				FRONT (cm)	WIDTH (cm)		
249.8	251.8		<p><u>Biotite Schist</u>: 10-20% diss. biotite in fine-grained light gray micritic quartz-feldspathic matrix; ± 15% diss. chlorite stained contacts; Non-calcareous; Non-magnetic; well foliated @ 55° to S.A.; down hole contact gradational over 50 cm; Alteration: Nil?</p> <p><u>Mineralization</u>: Pyrite. < 1% (locally ± 3% diss. near quartz vein); pyrrhotite < 1% - diss. quartz ± white carbonate veinlets - 2%</p>	249.8	2.0	3546	<p>AN</p> <p>996</p> <p>88</p>
251.8	313.6		<p><u>Basalt</u>: Generally medium green, fine to med. grained; Non-calcareous, 1-4% white carbonate ± quartz veinlets; locally magnetic (magnetite); Unfoliated to poorly foliated @ 55° to S.A.; 289.4-306.1 m: 1-8% quartz ± white carbonate filled amygdale 306.6-306.1 m: Slightly bleached, med. to well foliated section.</p> <p>Alteration: generally Nil</p> <p>Mineralization: Magnetite: diss. 251.8-264.5 m ± 3% - 306.1-313.6 m ± 6% pyrite/pyrrhotite: < 1% diss.</p>	251.8	2.5	3547	10

WILMINGTON DRILL RECORD

PAGE 14 OF 17

HOLE NO. M-88-6A
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

COMPANY NAME _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

COLLAR: NORTH _____
 EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. _____

METHOD: _____

FROM (m)	TO (m)	RECOVY (%)	DESCRIPTION	SAMPLE		ASSAYS
				TYPE	WIDTH	
NO.						
313.6			<u>END OF HOLE</u>			
			<u>Notes:</u>			
			1. Casing left in hole			
			2. Due to cold weather, determination of carbonate abundance by reaction to HCl acid was difficult, hence more carbonate may be present than indicated.			
			D.C. Kelly			
			for			
			G. Gozowski			

Drilling Log

PROPERTY NAME: Mishkwa River Property
 DRILLING CONTRACTOR: Langley Drilling/Brampton Ont.
 ASSAYER: Acme Analytical Labs/Vancouver, B.C.
 PURPOSE OF HOLE: L. To Further Test Eastern Extension of
Mineral Lease

HOLE NO.: A-88-2
 CLAIM NAME: Pa. A16.710
 COMMENCED: Sept. 29, 1988
 FINISHED: Oct. 1, 1988
 PROJECT NO.: MIS

EAST	HOLE SURVEY	
	FOOTAGE AZIMUTH	DIP
6403E	0.0m 175°	-50
	60.7	-48
	121.6	-46
	200.9	-42
LOGGED BY: <u>G. Gorkyalski</u>		
DATE LOGGED: <u>Oct. 2-8, 1988</u>		
MAP REFERENCE NO.: <u>ATS 52 P/4</u>		
METHOD: <u>ACID</u>		

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS
				FROM	TO	
0.0	12.0		CASING			
12.0	28.6		GABBRO			
28.6	43.3		BASALT			
43.3	44.0		MAGNETITE IRON FORMATION			
44.0	57.4		BASALT			
57.4	61.9		ALTERED BASALT			
61.9	66.0		QUARTZ-K-FELDSPAR GLAST BRECCIA			
66.0	70.0		CHLORITE-CARBONATE SCHIST			
70.0	88.5		SERICITE-QUARTZ EYE SCHIST			
88.5	92.1		METACHERT AND MAGNETITE IRON FORMATION			
92.1	101.5		SERICITE-QUARTZ EYE SCHIST			
101.5	109.7		ALTERED BASALT			
109.7	131.6		BASALT			
131.6	133.0		PYRRHOTITE IRON FORMATION AND CHLORITE SCHIST			
133.0	134.5		PYRRHOTITE IRON FORMATION			
134.5	137.1		CHLORITE SCHIST			
137.1	139.0		PYRRHOTITE IRON FORMATION			
139.0	151.5		CHLORITE-SERICITE SCHIST AND METACHERT			
151.5	153.2		BASALT			

SUMMARY LOG

Drilling Log Record

COLLAR NORTH	HOLE SURVEY
	FOOTAGE (AZIMUTH OF)
ELEVATION	
LOGGED BY	
DATE LOGGED	
MAP REFERENCE	NO. <u>ATS 52 P/4</u> METHOD:

CLAIM NAME	HOLE NO. <u>A-88-9</u>
COMMENCED	
FINISHED	
PROJECT NO.	<u>MIS</u>

COMPANY NAME VERTECAL LIMITED OPERATIONS LTD
 PROPERTY NAME Mishkon River Property
 DRILLING CONTRACTOR Langley Drilling / Brampton Ont.
 ASSAYER Acme Analytical Lab / Vancouver, B.C.
 PURPOSE OF HOLE

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS		
				FROM TO	WIDTH NO.			
28.6	43.3		<p> <u>Basalt: Variably med. green to dark green</u> <u>grey - colour darkens, with hardness (Moh=4-7).</u> <u>Fine grained; locally calcareous (53% diss. white carbonate); generally non-magnetic; unfoliated</u> <u>to poorly foliated at 50' to c.a.; Downhole</u> <u>contact intercalated over 10cm;</u> <u>Sections of med. broken core at 34.6-35.0, 39.6-40.6.</u> <u>Alteration: 10% slightly to med. bleached & silicified</u> <u>sections - bleaching (sericitization) is</u> <u>patchy, massive and along healed fractures</u> <u>Mineralization: Sulphides generally < 1%.</u> <u>42.4-43.3: Magnetite - 5% - clots</u> <u>Pyrite/Pyrrhotite: < 1% - diss</u> <u>Chalcopyrite: Trace - diss.</u> </p>	33.6	35.3	1.7	3669	<u>Au</u> <u>ppb</u> <u>4</u>
				39.6	41.1	1.5	3670	4
				41.1	43.3	2.2	3671	3
43.3	44.0		<p> <u>Magnetite Iron Formation: 60% white to light grey</u> <u>quartz (metachert) as massive sections and breccia clasts</u> <u>(52cm dia) in semi-massive magnetite matrix; unfoliated;</u> <u>non-calcareous; Downhole contact sharp at 60' to c.a.;</u> </p>	43.3	44.0	0.7	3672	4

Diamond Drill Record

PROPERTY NAME: Mishikaw River Property
DRILLING CONTRACTOR: Langley Drilling / Brampton, Ont.
ASSAYER: Acme Analytical Lab / Vancouver, B.C.
PURPOSE OF HOLE:

CLAIM NAME: _____
COMMENCED: _____
FINISHED: _____
PROJECT NO.: MIS

COLLAR SURVEY FOOTAGE ADJUSTED UP EAST	
ELEVATION LOGGED BY DATE LOGGED MAP REFERENCE NO.	TS 52 P/4 METHOD:

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS					
				FROM TO (m)	WIDTH NO.						
44.0	57.4		BASALT: SIMILAR TO 28.6-43.3m; GENERALLY MED. GREEN WITH DARK GREY, VERY SILICEOUS SECTIONS (METACHERT? SILICEOUS ZONES?) WITH GRADATIONAL CONTACTS AT 49.3-49.4m, 50.3-51.0m, & 52.4-53.3m; COMMONLY CALCAREOUS (44.0-46.4m - 10-20% WISBY AND DISS WHITE CARBONATE; 46.4-57.4m: 5% DISS WHITE CARBONATE LOCALLY); GENERALLY NON-MAGNETIC; POORLY TO MOD. FOLIATED AT 50' TO C.O.; DOWNHOLE CONTACT GRADATIONAL OVER 5cm; ALTERATION: - SILICEOUS SECTIONS AS ABOVE; ALSO BECOMING MORE SILICEOUS NEAR DOWNHOLE CONTACT - 46.4-47.8m: BLEACHED AND SILICEOUS BOUNDED QUARTZ CLAST BRECCIA; 60% LIGHT GREY QUARTZIC CLASTS IN MOD. SILICEOUS SERICITIC MATRIX; PYRITE < 1% - DISS. MINERALIZATION: 44.0-46.4m: PYRITE < 1% - DISS. 46.4-57.4m: SULPHIDES GENERALLY < 1%;	44.0	46.4	2.4	3673	2	ppb		
				46.4	47.8	1.4	3674	1			
				47.8	49.3	1.5	3675	1			
				49.3	51.0	1.7	3676	2			
				52.4	53.3	0.9	3677	1			
				55.5	57.4	1.9	3678	1			

HOLE SURVEY

COLLAR NORTH	FOOTAGE	AZIMUTH	DIP
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE	NO.ATS 51 P/4	METHOD:	

PROPERTY NAME Mishkum River Property
DRILLING CONTRACTOR LAURENCE DRILLING & BRAMPTON DRILL
ASSAYER Acme Laboratories, Vancouver, B.C.
PURPOSE OF HOLE _____

CLAIM NAME _____
COMMENCED _____
FINISHED _____
PROJECT NO. MIS

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS	
				FROM	TO WIDTH NO.		
61.9	66.0		QUARTZ - K-FELDSPAR ^h CLAST BRECCIA: 10-80% BOUNDED, LABRATE GREEN FRESH-COLOURED CLASTS HEALED BY A CHLORITE + SERICITE MATRIX; CLASTS ARE A HOMOGENOUS, FINE GRAINED, VERY SILICEOUS MASS OF QUARTZ + K-FELDSPAR + SERICITE(?); NON-CALCAREOUS, NON-MAGNETIC; POORLY FOLIATED AT 45° TO S.A.; DOWNHOLE CONTACT GRADATIONALLY INTERCALATED OVER 8 cm;	61.9	63.4 1.5	3681	Au ppb 1
				63.4	66.0 2.6	3682	3
66.0	70.0		CHLORITE - CARBONATE SCHIST: WISPY INTERBANDS (1-20cm wide) OF MED. GREEN CHLORITE (40%) AND LIGHT GREY ANKERITE (?) - SERICITE - QUARTZ (60%); MAGNETIC (MAGNETITE); WELL FOLIATED AT 65° TO S.A.; DOWNHOLE CONTACT GRADATIONALLY OVER 3cm;	66.0	67.7 1.7	3683	2
				67.7	70.0 2.3	3684	1

DRILLING LOG

DUMFRIES & COMPANY

PROPERTY NAME: MISHKON RIVER PROPERTY
 DRILLING CONTRACTOR: LANGLEY DRILLING / BRAMPTON, ONT.
 ASSAYER: ALMA ANALYTICAL LABS / VANCOUVER, B.C.
 PURPOSE OF HOLE: _____

HOLE NO. M-88-8
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. MIS

COLLAR: _____	HOLE SURVEY: _____
NORTH: _____	FOOTAGE AZIMUTH OF _____
EAST: _____	_____
ELEVATION: _____	_____
LOGGED BY: _____	_____
DATE LOGGED: _____	_____
MAP REFERENCE NO. <u>ATS 52 P/4</u>	METHOD: _____

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS		
				FROM	TO		WIDTH	NO.
			ALTERATION: POSSIBLY A BLEACHED AND CARBONATE-ALTERED BASALT;					
			MINERALIZATION: MAGNETITE: 5% TO 5% - AS 5-7mm CLOTS ANOTHER SPINEL MINERAL - 5% - AS CLOTS AND CRYSTALS IDENTICAL TO THE MAGNETITE BUT ONLY SLIGHTLY TO NON-MAGNETIC WITH A BLACK STREAK;					
70.0	88.5		SERICITE - QUARTZ EYE SCHIST: PATCHY WHITE LIGHT GREY, DARK GREY AND PINK-ORANGE IRON CARBONATE-STAINED) - BECOMING GENERALLY DARKER COLOURED DOWNHOLE; MOD. TO VERY SILICEOUS; 2-10% BLUE AND LESSER CLEAR QUARTZ EYES (5-3mm DIA); NON-CALCAREOUS; NON-MAGNETIC; 25% RE SECTION IN MOD. BROKEN CORE; WELL FOLIATED. AT ABOUT 60° TO C.A. THROUGHOUT; DOWNHOLE CONTACT GRADATIONAL OVER 3cm;	70.0	73.0	3.0	3685	2
				73.0	76.0	3.0	3686	1
				76.0	78.7	2.7	3687	5
				78.7	79.9	1.2	3688	1
				79.9	82.1	2.2	3689	1
				82.1	84.4	2.3	3690	2
				84.4	86.7	2.3	3691	2
				86.7	88.5	1.8	3692	1
			ALTERATION: PROBABLY A HIGHLY SILIC AND SERICITIC ALTERATION ZONE					
			- IRON CARBONATE: 10% SECTIONS OF TYPICALLY 5% Fe ₂ O ₃					

COLLAR NO. _____
 NORTH _____
 EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. ATS 52 P/4 METHOD: _____

Drilling Log Record
 COMPANY NAME WATERBURY EXPLORATIONS LTD
 PROPERTY NAME Mishikaw River Property
 DRILLING CONTRACTOR Langley Drilling / Brampton Ont.
 ASSAYER Acme Analytical Labs / Vancouver, B.C.
 PURPOSE OF HOLE _____

PAGE 54
 HOLE NO. N-23-9
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. MIS

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS			
				FROM TO	WIDTH NO.				
			MINERALIZATION: SULPHIDES GENERALLY <1%.						
88.5	92.1		METACHERT AND MAGNETITE IRON FORMATION: INTERCALATED SECTIONS → METACHERT AT 89.0-90.0m AND 91.5-91.1m → MOTTLED WHITE TO LIGHT GREY QUARTZ WITH <1% DISS PYRITE OR MAGNETITE;	88.5	90.0	1.5	3693	2	
			MAGNETITE IRON FORMATION: AT 88.5-89.0m, 90.2-90.9m, AND 91.2-91.5m → 5-30% DISS. AND BANDED MAGNETITE IN LIGHT TO DARK GREY QUARTZ (METACHERT); QUARTZ - SERICITE SEMI: AT 90.0-90.1m AND 90.9-91.2m.	90.0	90.9	0.9	3694	12	
			LIGHT BROWN TO LIGHT GREEN, SILICEOUS; GENERAL FOLIATION AT 55° TO C.A.; DOWNHOLE CONTACT IN GROUND CORE;	90.9	91.1	1.2	3695	1	
			ALTERATION: MAGNETITE I.F.: - 20% RAGGED BLEACHED BANDS AT 75° TO C.A., MANY WITH SULPHIDES; AT 91.1-91.2m - LOCAL GRANULITE (S.I.) PROBABLY AFTER MAGNETITE;						
			MINERALIZATION: MAGNETITE - 5-3% IN IRON FORMATION PYRITE / LIMONITE / PYRANTITE / CHALCOPYRITE - 3% / 5% / 5% / 1% / TRACE RESPECTIVELY IN I.F. BLEACHED BANDS.						

NOTE - THESE BANDS ARE PARALLEL TO SCHISTOSITY

Diamond Drill Record

COMPANY NAME NORTHERN MINERAL EXPLORATIONS LTD
 PROPERTY NAME Mishonkw River Property
 DRILLING CONTRACTOR LAUSLEY DRILLING / BRAMPTON, ONT.
 ASSAYER ACME ANALYTICAL LABS / VANCOUVER, B.C.
 PURPOSE OF HOLE _____

HOLE NO. 52 P/4
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. MIS

COLLAR		HOLE SURVEY	
NORTH	EAST	FOOTAGE	AZIMUTH OF
ELEVATION	LOGGED BY	METHOD:	
DATE LOGGED	MAP REFERENCE	NO. DATE	

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		NO.	ASSAYS	
				FROM	TO		WIDTH	AU
			- Pyrite: <1% - DISS OUTSIDE IRON FORMATION					
92.1	101.5		SERICITE-QUARTZ EYE SCHIST: SIMILAR TO 70.0-88.5m;	92.1	94.3	2.2	3696	2
			LIGHT GREY BECOMING DARKER TOWARD UPHOLE AND	94.3	96.3	2.0	3697	2
			DOWNHOLE CONTACTS: 10% PINK-ORANGE IRON CARBONATE	96.3	98.7	2.4	3698	10
			STAIN ONLY IN LIGHT GREY SECTION; 3-10% BLUE QUARTZ	98.7	101.5	2.8	3699	1
			EYES IN LIGHT GREY SECTION AND SIL. IN DARK GREY					
			ZONES; NON-CALCAREOUS, NON-MAGNETIC; WELL FOLIATED					
			AT 70° TO C.A.; DOWNHOLE CONTACT HIGHLY GRADATIONAL;					
			ALTERATION: PROBABLY A SERICITIC AND SILICIC ALTERATION					
			ZONE					
			- IRON CARBONATE: ≤ 10% - AS NOTED ABOVE					
			MINERALIZATION: SULPHIDES GENERALLY << 1%;					
101.5	109.7		ALTERED BASALT: TYPICALLY GREEN-GRAY WITH 35% WHITE	101.5	103.9	2.4	3700	16
			SILICEOUS AND/OR CALCAREOUS ALTERATION PATCHES	103.9	106.1	2.2	3701	24
			DEFIN. ELONGATED ALONG THE FOLIATION; CALCAREOUS	106.1	107.9	1.8	3702	11
			(3-15% WHITE CARBONATE); LOCALLY MAGNETIC (MAGNETITE);	107.9	109.7	1.8	3703	2
			MOD. FOLIATED AT 50° TO C.A.; DOWNHOLE CONTACT					
			HIGHLY GRADATIONAL;					

Diamond Drill Record

COLOR _____
 NORTH _____
 EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. ATS 52 P/4 METHOD: _____

COMPANY NAME NORTH DYNASTY EXPLORATION LTD
 PROPERTY NAME Mishikwan River Property
 DRILLING CONTRACTOR Langley Drilling/Brampton Ont.
 ASSAYER Acme Analytical Labs/Vancouver B.C.
 PURPOSE OF HOLE _____

HOLE NO. M-27
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. M/S

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS
				FROM	TO WIDTH NO.	
			ALTERATION: 35% PATCHY SILICA + WHITE CARBONATE SERICITE BLEACHING; THIS UNIT IS TRANSITIONAL FROM THE HIGHLY ALTERED ROCK ABOVE TO THE LESS ALTERED ROCK BELOW; MINERALIZATION: MAGNETITE < 1% - DISS. LOCALLY IN LESS ALTERED BASALT; PYRITE: < 1% - DISS AND IN VEINS. QUARTZ + WHITE CARBONATE VEINS: 101.5-106.6m 25% - 50cm wide - VARIABLY ORIENTED; 106.1-109.7m: 1%.			
109.7	131.6		BASALT: TYPICALLY MED. GREEN, HOMOGENEOUS; CALCAREOUS (2-12% DISS. CLUSTY AND VEIN CALCITE THROUGHOUT); MAGNETIC (MAGNETITE); POORLY TO MOD. FOLIATED AT 40-60° TO C.A.; DOWNHOLE CONTACT GRADATIONALLY INTERCALATED OVER 40cm; ALTERATION: - PROMINENT DISS. AND PATCHY WHITE CARBONATE - LOCAL SILICIFICATION AND SERICITIZATION. MINERALIZATION: MAGNETITE: 109.7-117.0m: 51% - DISS; 117.0-131.6m: 2-10% AS DISS AND CLUSTY. ASSOCIATED WITH CARBONATE; Sphalerite < 1%.	109.7	112.7 3.0	3704 1
				112.7	115.7 3.0	3705 2
				115.7	118.7 3.0	3706 4
				118.7	121.7 3.0	3707 1
				121.7	124.7 3.0	3708 3
				124.7	127.7 3.0	3709 2
				127.7	130.5 2.8	3710 8
				130.5	131.6 1.1	3711 4

Downhole Drilling

COMPANY NAME WATERBURY MINERAL INVESTMENTS LTD
 PROPERTY NAME Mishikow River Property
 DRILLING CONTRACTOR Langley Drilling/Brampton Ont.
 ASSAYER Acme Analytical Lab/Vancouver, B.C.
 PURPOSE OF HOLE _____

CLAIM NAME _____
 COMPLETED _____
 FINISHED _____
 PROJECT NO. MIS

HOLE SURVEYS	
FOOTAGE	AZIMUTH
ELEVATION	DIP
LOGGED BY	
DATE LOGGED	
MAP REFERENCE	

MAP REFERENCE MONTS 52 P/4 METHOD: _____

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS			
				FROM	TO				
0.0	6.9		CASING: FEW COBBLES AND DEBRIS OF BASALT, GABBRO, PINK GRANITE, WHITE GRANITE, AND BIEGE LIMESTONE RECOVERED.						
6.9	139.3		CHLORITE-CALCITE SCHIST: VARIABLY GREEN-GRAY TO MED. GREEN WITH 3-15% BEGGED LENSES OF WHITE CALCITE 5-10mm WIDE; 43% BLUE QUARTZ EYES THROUGHOUT; MAGNETIC (MAGNETITE): MOD. TO WELL FOLIATED → 50° TO C.A. AT TOP OF HOLE VARYING TO 60° TO C.A. AT 75.0m, CHANGES TO 45° TO C.A. AT 78.0m (ACROSS SECTION OF BROKEN CORE) AND VARIES TO 55° AT 139.0m; SECTIONS OF BROKEN CORE AT 49.3-49.5m, 75.4-75.5m, 75.9-76.3m, AND 77.3-77.4m; DOWNHOLE CONTACT GRADATIONALS OVER 50cm; ALTERATION: - IRON CARBONATE - 53% IN PATCHES AT 12.2-23.8m AND LOCAL PATCHES THROUGH TO 78.3m; - MINOR ZONES OF BLEACHING LOCALLY - 124.8-128.4m; PROMINANT (30%) YELLOW-GREEN EPIDOTE - ALTERATION OF CHLORITE	12.2	13.4	1.2	3739	2	
				22.0	23.7	1.7	3740	1	
				28.5	30.0	1.5	3741	4	
				35.1	36.9	1.8	3742	1	
				48.8	50.0	1.2	3743	2	
				74.6	76.3	1.7	3744	1	
				83.6	85.7	1.9	3745	1	
				88.2	89.7	1.5	3746	1	

Diamond Drill Record

COLLAR	HOLE SURVEY
NORTH	FOOTAGE AZIMUTH DIP
EAST	
ELEVATION	
LOGGED BY	
DATE LOGGED	
MAP REFERENCE NO. <u>NTS 52 P/4</u>	METHOD:

HOLE NO. <u>N-88-70</u>	CLAIM NAME	PROJECT NO. <u>M/S</u>
COMMENCED		
FINISHED		

COMPANY NAME Northwest Diamond Drilling Co.
 PROPERTY NAME Mishkan River Property
 DRILLING CONTRACTOR Langley Drilling/Brampton Ont.
 ASSAYER Acme Analytical Lab/Vancouver, B.C.
 PURPOSE OF HOLE _____

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS	
				FROM TO	WIDTH NO.		
			MINERALIZATION: MAGNETITE: 6.9-132.9m: 2-8% - DISS AND CLOYS EXCEPT AT 107.0-109.6m AND	116.7	118.2 1.5	3747	APG
			115.8-124.5m: 8-12% 132.9-134.3m: 5% - DISS.	124.8	126.6 1.8	3748	1
			SULPHIDES TYPICALLY <1%.	126.6	128.4 1.8	3749	1
			PYRRHOTITE/PYRITE: LOCALLY ≤ 1% - DISS AND IN VEINS; 137.8-138.1m: 4% PYRITE IN VEINS;	137.8	139.3 1.5	3750	2
			QUARTZ & WHITE CARBONATE VEINS: 6.9-76.3m: 1-3% > 76.3-139.3m: ≤ 2% EXCEPT: 116.7-118.2m: 7%;				
			LIMONITE: ≤ 5% ON FRACTURES AT 49.3-49.5m, 68.3-68.4m AND 75.9-76.3m;				
139.3	182.6		BASALT: DARK GREEN-GREY BECOMING LIGHTER COLOURED WITH INCREASING CARBONATE; RELATIVELY HOMOGENEOUS; COMMONLY CALCAREOUS (TYPICALLY ≤ 3% DISS WHITE CARBONATE, 5-30% FINELY DISS. CARBONATE AT 157.4-155.0 AND 167.4-171.0m; LOCALLY MAGNETIC (MAGNETITE); POORLY TO MOD. FOLIATED AT 55° TO C.A.; BROKEN CORE AND GEUSE AT 150.7-151.9m; LOCAL QUARTZ-CARBONATE AMYGDALES.	139.3	140.6 1.3	3751	295
				140.6	142.8 2.2	3752	83
				163.2	165.8 2.6	3753	11
				170.6	173.3 2.7	3754	32

Diamond Drill Core Log
 COMPANY NAME: WATERLOO MINING & EXPLORATIONS LTD
 PROPERTY NAME: MISHKOW RIVER PROPERTY
 DRILLING CONTRACTOR: LANGLEY DRILLING / BEAUPRE TRAIL, ONT.
 ASSAYER: ACME ANALYTICAL LABS / VANCOUVER, B.C.
 PURPOSE OF HOLE: _____

COLLAR: _____	HOLE SURVEY
NORTH _____	FOOTAGE
EAST _____	AZIMUTH
ELEVATION _____	DIP
LOGGED BY _____	
DATE LOGGED _____	
MAP REFERENCE NO. <u>A7S 52 P/4</u>	METHOD:

PAGE 4
 HOLE NO. M-88-10
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. MIS

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS	
				FROM	TO		WIDTH
			ALTERATION: - COMMON ZONES OF WHITE CARBONATE (SEE ABOVE) - MAND SERICITIC BLEACHING	176.6	178.5	1.9	3755
			MINERALIZATION: MAGNETITE: TYPICALLY <<1% - DISS; LOCALLY 3%; SULPHIDES: TYPICALLY <<1% QUARTZ + WHITE CARBONATE VEINS: TYPICALLY 2-4%; 139.3 - 141.8m: 7% 176.7 - 176.9m: 10% - PINK QUARTZ VEINS				
182.6			END OF HOLE				
			Notes 1. CASING RETRIEVED FROM HOLE.				
			<i>H. J. Grogan</i>				

Diamond Drill Record

COLLAR: <u>1+375</u>		HOLE SURVEY	
NORTH	<u>15+09 W</u>	FOOTAGE	AZIMUTH
EAST		<u>0.0 m</u>	<u>175°</u>
ELEVATION		<u>66.7</u>	<u>-45</u>
LOGGED BY	<u>G. SOREYNSKI</u>	<u>121.6</u>	<u>-42</u>
DATE LOGGED	<u>OCTOBER 9-10, 1988</u>	<u>187.1</u>	<u>-42</u>
MAP REFERENCE	<u>NO. 15 52 P/A</u>	METHOD: <u>ACID</u>	

COMPANY NAME NORTHERN DYNASTY EXPLORATIONS LTD
 PROPERTY NAME MISHKOW RIVER PROPERTY
 DRILLING CONTRACTOR LANGLEY DRILLING/BRAMPTON, ONT.
 ASSAYER ACME ANALYTICAL LABS/VANCOUVER, B.C.
 PURPOSE OF HOLE 1. To TEST ALTERATION ZONE FOUND IN OUTCROP
2. To TEST EM-16 CONDUCTOR AT 15N32+55.

HOLE NO. M-88-11
 CLAIM NAME Pa. 816690
 COMMENCED OCTOBER 5, 1988
 FINISHED OCTOBER 16, 1988
 PROJECT NO. MIS

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS
				FROM	TO	
0.0	2.0		CASING			
2.0	17.6		GRANITE AND BASALT			
17.6	21.3		ALTERED GNEISS (G)			
21.3	36.7		QUARTZ SERICITE SCHIST			
36.7	25.2		GREYWACKE AND QUARTZ SERICITE SCHIST			
	75.1		GREYWACKE			
75.1	105.4		SILICIFIED BASALT (?)			
105.4	111.6		GREYWACKE			
111.6	112.3		CHLORITE-PHOTOGRANITE SCHIST			
112.3	115.7		CARBONATE LYMPHATE			
115.3	122.0		GREYWACKE AND CARBONATE LYMPHATE			
122.0	131.3		GREYWACKE			
131.3	134.9		CARBONATE LYMPHATE			
134.9	146.7		GREYWACKE AND CARBONATE LYMPHATE			
140.7	142.0		GARNET-GRANULITE IRON FORMATION			
142.0	145.9		CONGLOMERATE			
145.9	156.3		GREYWACKE			
156.3	156.7		BASALT			
	156.7		END OF HOLE			

Drill Core Log

HOLE NO. M-88-11
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. MIS

PROPERTY NAME Mishikow River Property
 DRILLING CONTRACTOR LAUSLEY DRILLING / BRAMP TON, ONT.
 ASSAYER Acme Analytical Labs / Vancouver, B.C.
 PURPOSE OF HOLE _____

HOLE SURVEY	
FOOTAGE (AZMUTH) DP	
EAST	
ELEVATION	
LOGGED BY	
DATE LOGGED	
MAP REFERENCE	NO. <u>ATS 52 P/4</u> METHOD: _____

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS			
				FROM	TO	WIDTH	NO.	Au	Ppb
0.0	2.0		CASING: No Recovery						
2.0	17.6		GRANITE AND BASALT: AN UNUSUAL SECTION OF ROCK: 40% LIGHT GREY, MEDIUM GRAINED (3 mm CRYSTALS) (53m WIDE) BIOTITE GRANITE SECTIONS, INTERCALATED WITH 20% MED. GREEN, FINE TO MED. GRAINED BASALT (5-10 WIDE) SECTIONS AND 40% HYBRID (?) SECTIONS OF CHLORIC FINE TO MED. GRAINED GRANITE; BETWEEN SECTIONS; NON-MAGNETIC; SLIGHTLY CALCAREOUS (5-3% DISS. WHITE CARBONATE IN GRANITE ONLY); UNFOLIATED TO POORLY FOLIATED AT 50' TO S.A.; DOWNHOLE (GRANITE) CONTACT SHARP AND IRREGULAR (INTRUSIVE?); ALTERATION: - POSSIBLE CHLORITIZATION IN HYBRID (?) GRANITES; MINERALIZATION: PYRITE: <1% - DISS - IN GRANITES QUARTZ + WHITE CARBONATE VEINLETS: TYPICALLY 3% - 6.0-7.9m: 8% - MINOR ASSOCIATED PYRITE						
				6.0	7.9	1.9	3756	7	
				16.1	17.6	1.5	3757	1	

CLAIM NO. M-82-11
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. M/S

PROPERTY NAME MISHKON TRUSS PROPERTY
 DRILLING CONTRACTOR LANGLEY DRILLING / BRANTON, Ont.
 ASSAYER ACME ANALYTICAL LABS / VANCOUVER, B.C.
 PURPOSE OF HOLE _____

HOLE SURVEY
 NORTH _____
 EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. 15 P/A METHOD: _____

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS
				FROM TO m	WIDTH NO.	
24.0	24.3		24.6-24.9m: GRANITE SILLS (SIMILAR TO 20-17.6m);			
			SHARP TO SLIGHTLY GRADATIONAL CONTACTS PARALLEL TO FOLIATION; UNALTERED;			
			ALTERATION: PROBABLY A VERY SILIC AND SERICITE ALTERATION ZONE			
			- 27.5-36.7m: IRON CARBONATE: 5% TO 7% INCREASING DOWNHOLE; MAINLY ON FOLIATION PLANES.			
			MINERALIZATION: PYRITE: TYPICALLY <1% - DISS. 24.0-24.9m: 5% - DISS AND CLOTS WITHIN AND BESIDE SILLS;			
36.7	38.2		GREYWACKE AND QUARTZ-SERICITE SCHIST: MID BROWN. 36.7	38.2	1.5	3766 2
			GRAY GREYWACKE (SIMILAR TO 38.2-75.1m) WITH 40% INTERCALATED SECTIONS (5-25cm WIDE) OF QUARTZ-SERICITE SCHIST (SIMILAR TO 21.3-36.7m) ACROSS GRADATIONAL AND SHARP CONTACTS BOTH PARALLEL TO AND CROSS-CUTTING FOLIATION; NON-CALCAREOUS; NON-MAGNETIC; WELL FOLIATED THROUGHOUT AT 65° TO 90° DOWNHOLE CONTACT SHARP AT 75° TO C.A. PARALLEL TO FOLIATION;			

COLLAR NO. _____ HOLE SURVEY
 POINT _____ FOOTING AZIMUTH DIP
 EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. APTS 52 P/4 METHOD:

PROPERTY NAME: MISHKON RIVER PROPERTY
 DRILLING CONTRACTOR: LANGLEY DRILLING BRAMPTON, ONT.
 ASSAYER: ALAN ANALYTICAL LABS/VANCOUVER, B.C.
 PURPOSE OF HOLE: _____

CLAIM NO. M-33-11
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. MIS

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS
				FROM TO	WIDTH NO.	
			ALTERATION: THIS UNIT IS A PARTIALLY ALTERED GREYWACKE AND REPRESENTS A TRANSITION BETWEEN THE ALTERATION ZONE ABOVE AND THE GREYWACKE BELOW.			
			MINERALIZATION: PYRITE: 1-2% - DISS ENTIRELY IN GREYWACKE			
38.2	75.1		GREYWACKE: MASSIVE, HOMOGENEOUS MED. GRAY SPECIFIED WITH 10% CHLORITE PYRITE; COMMON QUARTZ GRAINS AND SPARSE LITHIC FRAGMENTS; 5% DISS BLUE QUARTZ EYES AT 51.0-75.1m; LOCAL BEDS OF PEBOLES (53cm WIDE) NON-CALCAREOUS; MAGNETIC IN PARTS (MAGNETITE); MOD. FOLIATED AT 60°-65° TO S.A. THROUGHOUT; MOD. BROKEN CORE AT 54.0-54.6m; DOWNHOLE CONTACT SHARP AT 55° TO C.A. PARALLEL TO FOLIATION; ALTERATION: 45.5-45.9m MOD BLEACHING - LOCALLY ELSEWHERE AS WELL	38.2 39.7 1.5	3767	Au 1
				42.2 45.5 3.3	3768	1
				45.5 47.7 2.2	3769	1
				47.7 49.9 2.2	3770	1
				49.9 51.0 1.1	3771	1
				51.0 52.6 1.8	3772	3
				52.8 54.9 2.1	3773	1
				59.4 61.0 1.6	3774	2
			MINERALIZATION: PYRITE - ≤ 1% - DISS; LOCALLY 3% (ASSAY SECTION) MAGNETITE: 52% AT 42.2-43.0m AND 45.5-49.9m	67.8 69.9 2.1	3775	1
			- REPLACEMENT OF PYRITE IN BLEACHED PARTS; QUARTZ VEINLET; 51%: LARGE VEIN AT 50.6-51.0m	73.6 75.1 1.5	3776	1

Diamond Drill Record

COLLAR	HOLE SURVEY
WENT	FOOTAGE
EAST	ADJUSTED
	DP
ELEVATION	
LOGGED BY	
DATE LOGGED	
MAP REFERENCE	NOPTS 52 P/4
METHOD:	

HOLE NO. M-33-11
CLAIM NAME _____
COMMENCED _____
FINISHED _____
PROJECT NO. MIS

COMPANY NAME **MINERAL INVESTIGATIONS LTD**

PROPERTY NAME **Mishikow River Property**

DRILLING CONTRACTOR **LAUSLEY DRILLING / BRAMPTON, ONT.**

ASSAYER **ACME ANALYTICALS / VANCOUVER, B.C.**

PURPOSE OF HOLE _____

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS			
				FROM	TO		WIDTH	NO.	
75.1	105.4		SILICIFIED BASALT(?): DARK GREY, VERY FINE GRAINED.	75.1	76.9	1.8	3777	1	ppb
			HOMOGENEOUS: 50% DISS. CHLORITE INCREASING DOWNHOLE;	76.9	79.0	2.1	3778	2	
			99.5-100%: 1-2% PINK GARNETS; NON-CIRCULAR;	79.0	81.4	2.1	3779	5	
			NON-MAGNETIC; UNEQUIPPED TO LOCALLY MOD. FOLIATED AT	81.4	83.1	1.7	3780	1	
			60° TO C.B.; DOWNHOLE CONTACT SHARP AT 60° TO C.B.;	83.1	85.4	2.3	3781	1	
			104.8-105.3m: HIGHLY BREKEN CORE.	85.4	87.7	2.3	3782	7	
			ALTERATION: SERICITIC BLEACHINGS WITH MOD. IRON CARBONATE						
			STAINING FORMS APT. OF SECTION AT 103.1-105.4	96.0	97.0	1.0	3783	1	
			- MINOR PATCHY SERICITIC BLEACHING ELSEWHERE						
			- K-FELDSPER: INTENSE SALMON PINK PATCHES AT	97.6	99.3	1.7	3784	2	
			78.6-78.9, 79.9-80.1m, AND COMMON SMALL						
			PATCHES ELSEWHERE ESPECIALLY ALONG FRACTURES	103.1	105.4	2.3	3785	1	
			MINERALIZATION: 75.1-85.0m: PYRITE: 1-2% - DISS. CLOTS, AND AN						
			FRACTURES, WITHIN AND OUTSIDE ALTERATION;						
			LOCAL CUBES 0.5-1.0cm DIA.; ALSO IN ANGINES;						
			PYRROPHITIC: 51% - ASSOCIATED WITH PYRITE						
			85.0-105.4m: PYRITE: 4-1% - DISS. AND ON FRACTURES;						

DIAMOND DRILL RECORD

COLLAR NO. _____ HOLE SURVIVAL _____
 NORTH FOOTAGE AZIMUTH OR _____
 EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE POINTS 52 P/4 METHOD: _____

COMPANY NAME: WATERBURY ASSOCIATES, INC.
 PROPERTY NAME: MISHKAW RIVER PROPERTY
 DRILLING CONTRACTOR: LAUGLEY DRILLING/BRANTLEY, Ont.
 ASSAYER: ACME ANALYTICAL LABS/VANCOUVER, B.C.
 PURPOSE OF HOLE: _____

HOLE NO. N-82-11
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. M15

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS		
				FROM TO	WIDTH NO.			
105.4	111.6		GREYWACKE: DARK GREY, FINE TO MED GRAINED BANDED (5-2cm wide) TO MASSIVE: NON-CALCAREOUS, COMMONLY MAGNETIC (MAGNETITE); MOD. FOLIATED AT 55° TO C.A.; DOWNHOLE CONTACT GRADATIONAL OVER 2 cm.	105.4	107.2	1.8	3786	Au ppb 1
				107.2	109.2	2.0	3787	1
				109.2	111.6	2.4	3788	3
			ALTERATION: 15% SECTIONS (530cm) OF MED. SERICITE BLEACHING; LOCAL ASSOCIATED IRON CARBONATE STAIN TOWARD UPHOLE CONTACT. MINERALIZATION: MAGNETITE: 51% - DISS. LOCALLY. PYRITE: 51% - DISS.					
111.6	112.3		CHLORITE-BICHITE-GARNET SCHIST: META-GREEN (CHLORITE) AND BROWN-GREY (BIOTITE) DIFFUSE BANDS (5-3cm wide); 31% PINK GARNETS (5-3mm dia) IN CHLORITIC BANDS; NON-CALCAREOUS; NON-MAGNETIC; WELL FOLIATED AT 55° TO C.A.; DOWNHOLE CONTACT INTERCALATED OVER 8cm; 51% BLUE QUARTZ EYES; ALTERATION: MINOR BLEACHING MINERALIZATION: PYRITE: 41% - DISS.	111.6	112.3	0.7	3789	1

Diamond Drill Record

HOLE SURVEY FOOTAGE AZIMUTH DIP _____ _____ _____	ELEVATION _____ LOGGED BY _____ DATE LOGGED _____ MAP REFERENCE NO. <u>HTS 52 P/A</u> METHOD: _____
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COMPANY NAME <u>Northwest University Laboratories Ltd.</u> PROPERTY NAME <u>Mishkon River Property</u> DRILLING CONTRACTOR <u>Lewisley Drilling/Brantford, Ont.</u> ASSAYER <u>Acme Analytical Labs/Vancouver, B.C.</u> PURPOSE OF HOLE _____	CLAIM NAME _____ COMMENCED _____ FINISHED _____ PROJECT NO. <u>M/S</u>
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FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE			ASSAYS	
				FROM	TO	WIDTH	NO.	AV
112.3	115.3		CARBONATE EXHALITE: BANDED (0.3-10cm WIDE) LIGHT GREY AND WHITE MASSIVE CALCITE WITH GA. FINE INTERBANDS (0.5cm WIDE) OF FINE GRAINED QUARTZ (METACHERTIN) THE TELLURATE NATURE OF THESE BANDS SUGGEST THEY MAY REPRESENT BEDDINGS. ALSO 3% INTERCHANGED EPITAXIAL BANDS AND 2% CALCULATION BANDS (5.2cm WIDE); NON-MAGNETIC; BANDING/FOLIATION AT 60° TO C.A.; DOWNHOLE CONTACT SHARP AT 60' TO C.A. PARALLEL TO BANDING.	112.3	113.8	1.5	3790	8
				112.8	115.3	1.5	3791	4
115.3	121.2		GREYWACKE AND CARBONATE EXHALITE: GREYWACKE (SIMILAR TO 105.4-116.6) WITH 30% INTERCHANGED CARBONATE EXHALITE BANDS (0.5-20cm WIDE); NON-MAGNETIC; MOD. FOLIATED/BANDED AT 60° TO C.A.; DOWNHOLE CONTACT SHARP AT 50° TO C.A. PARALLEL TO FOLIATION; ALTERATION: MINOR SERICITIC BLEBCHING IN GREYWACKE; MINERALIZATION: PYRITE + PYRROTYTE. SS 1% - DISS	115.3	115.0	2.7	3792	1
				118.0	120.5	2.5	3793	10
				120.5	122.0	1.5	3794	1

HOLE NO. M-82-11
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. M/S

Diamond Drill Record
 COMPANY NAME WATERBURY DRILLING & CONSTRUCTION LTD
 PROPERTY NAME MISHKAW RIVER PROPERTY
 DRILLING CONTRACTOR LAUGLEY DRILLING/BRAMPTON Ont.
 ASSAYER ACME ANALYTICAL LOGS/VANCOUVER, B.C.
 PURPOSE OF HOLE _____

HOLE SURVEY	
FOOTAGE	AZMUTH DIP
ELEVATION	
LOGGED BY	
DATE LOGGED	
MAP REFERENCE NO.	<u>NTS 52 P/4</u> METHOD: _____

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS		
				FROM	TO		WIDTH	NO.
122.0	131.3		GREYWACKE. SIMILAR TO 105.4-111.6m; 1% DISS PINK GARNETS MINERALIZATION: GEN-MAGNETIC; MOD. FOLIATED AT 50°	122.0	123.5	1.5	3795	Au ppb 1
			CONTACT GREWACKES OVER 3cm MINERALIZATION: PYRITIC; PYRITE: 55% - DISS. FOLIATION: MOD. FOLIOLETTES, ACCOMPANIED BY SP. BLUE QUARTZ EYES NO. OF CONTACTS: 1 AT 124.5-125.5m	124.4	127.2	1.9	3796	1
131.3	134.9		CARBONATE EXHALITE: SIMILAR TO 112.3-115.3m; 2% INTERCALATED QUARTZ (METACHERT) ONLY 7% INTERCALATED GREWACKES LOCAL CONTINUOUS-SCALE FOLDS EVIDENT; GEN-MAGNETIC FOLIATION/BANDING AT 45-70° TO C.A.; DOWNHOLE CONTACT GREWACKES OVER 15cm ALTERATION: NIL MINERALIZATION: PYRITIC - DISS.	131.3	133.2	1.9	3797	1
				133.2	134.9	1.7	3798	1

COLLECTOR: _____

NORTH: _____

EAST: _____

ELEVATION: _____

LOGGED BY: _____

DATE LOGGED: _____

MAP REFERENCE: NO. 15 52 P/4 METHOD: _____

DISTRICT OF COLUMBIA

PROPERTY NAME: MISHKOW RIVER PROPERTY

DRILLING CONTRACTOR: LANGLEY DRILLING & REPAIRING CO.

ASSAYER: ACME ANALYTICAL LABS/VANCOUVER, B.C.

PURPOSE OF HOLE: _____

HOLE NO. M-88-11

CLAIM NAME: _____

COMMENCED: _____

FINISHED: _____

PROJECT NO. M/S

FROM (m)	TO (m)	RECOVERY (%)	DESCRIPTION	SAMPLE		ASSAYS			
				FROM TO FT	WIDTH NO.				
134.9	140.7		GREYWACK AND CARBONATE EXHALITE: GREYWACK (SIMILAR TO 105.1-116m) WITH 2% PINK GARNETS INTERCALATED WITH 1% BANDS (1-30cm WIDE) OF CALCINITE EXHALITE (SIMILAR TO 12.3-15.3m); ALSO INTERCALATED BANDS (6-8cm WIDE) OF METACHERT (WITH 5% PYRRHOTITE).	134.9	137.9	3.0	3799	Au	
			Also - well exposed at 60° to c.a.; DOWNHOLE CONTACT INTERCALATED OVER 20cm	137.9	140.7	2.8	3800	5	
			ALTERATION: LOCAL BLEACHING IN GREYWACK					146	
			MINERALIZATION: PYRRHOTITE + PYRITIC: << 1% DISS						
			MAGNETITE TRACES: DISS						
140.7	142.0		GARNET-GRANITE IRON FORMATION: VERY UNUSUAL! TYPICALLY 80% MASSIVE AND CLOTTY PINK GARNETS WITH 10% GRANITE AND 10% CHLORITE MATRIX; NON-CALCAREOUS; MAGNETIC (MAGNETITE); POORLY FOLIATED AT 55° TO C.A.; DOWNHOLE CONTACT SHARP AT 45° TO C.A. PARALLEL TO FOLIATION.	140.7	142.0	1.3	3801	203	
			140.4-140.8: LIGHT GREEN, UNIFORM GORTZ-SCHISTOSE						

Diamond Drill Record

COLLAR:	
NORTH	FOOTAGE
EAST	AZIMUTH
ELEVATION	DIP
LOGGED BY	
DATE LOGGED	
MAP REFERENCE	NO. <u>ATS 52 P/4</u>
METHOD:	

COMPANY NAME: NORTHERN DIAMOND EXPLORATIONS LTD
 PROPERTY NAME: MISHKAM RIVER PROPERTY
 DRILLING CONTRACTOR: LAUGHEY DRILLING / BRAMPTON, ONT.
 ASSAYER: ACME ANALYTICAL LABS / VANCOUVER, B.C.
 PURPOSE OF HOLE: _____

HOLE NO. <u>M-82-11</u>
CLAIM NAME _____
COMMENCED _____
FINISHED _____
PROJECT NO. <u>M/S</u>

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS		
				FROM	TO		WIDTH	NO.
			ALTERATION - SHOWS 1% SILICIFIED AND SERICITIZED					
			- GRANITE AFTER MAGNETITE?					
			MINERALIZATION: MAGNETITE: 2% - DISS IN GRANITE					
			PYRRHOTITE: 6% - DISS THROUGH-OUT					
			PYRITE: < 1% - DISS					
			QUARTZ VEINS: 140.4 - 140.6m: 30% - NO SULPHIDES					
142.0	145.9		CONGLOMERATE: 80% QUARTZ, GREYWACKE, AND QUARTZ-SERICITE	142.0	145.5	1.5	3802	42
			FLATTENED CLASTS IN SERICITIC MATRIX: GENERALLY	143.5	145.9	2.4	3803	35
			NOTICED LIGHT GREEN AND GREEN; NON-CALCAREOUS;					
			NON-MAGNETIC; MIN. FOLIATED AT 65° TO C.H.I.					
			DOWNSLOPE CONTACT SHARP AT 65° TO C.H. PARALLEL					
			TO FOLIATION: 5% BLUE QUARTZ EYES IN MATRIX;					
			ASSOCIATION: MOD BLEACHED THROUGH-OUT					
			MINERALIZATION: PYRITE: 142.0 - 143.5m: 2% - DISS AND CLYS					
			IN MATRIX;					
			143.5 - 145.9m: 4% - IN MATRIX					
			PYRRHOTITE: < 1% - DISS					
			QUARTZ VEIN AT 144.5 - 144.6 HASTINGS S.D. PYRITES;					

CLAIM NO. M-88-11
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. M/S

PROPERTY NAME: MISHIKON RIVER PROPERTY
 DRILLING CONTRACTOR: LANGLEY DRILLING / BRAMPTON, ONT.
 ASSAYER: ACME ANALYTICAL LABS / VANCOUVER, B.C.
 PURPOSE OF HOLE: _____

COMPANY: WHEATRIEVE EXPLORATIONS LTD
 HOLE SURVEY _____
 FOOTAGE (AZIMUTH) DIP _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. ATS 52 P/4 METHOD: _____

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS			
				FROM	TO	WIDTH	NO.	Au	Au REFINED PER T. PPB
145.9	156.3		GREYWACKE. VARIES FROM BROWN-GREY (BIOTITE) TO LIGHT GREY (SERICITE) SECTIONS. LOCAL QUARTZ & SULFIDE CONCENTRATES. GENERALLY MED. GRAINED UNABLE TO FINE GRAINED. DOWNHOLE: NON-CALCAREOUS; NON-MAGNETIC; PORPHY TO MED. EQUIPT. AT 60° TO C.A.; DOWNHOLE CONTACT GENERATIONAL OVER 2cm; MED. BROKEN CORE AT 149.6-150.0 AND 150.9-151.3m; ALTERATION: SLIGHT TO MOD BLEACHING THROUGHOUT; MINERALIZATION: 145.9-149.6m: PYRITE + PYRRHOTITE: 5-11% -DISS. 149.6-155.0m: PYRITE + PYRRHOTITE: 1-2% -DISS AND IN VEINS 155.0-156.3m: PYRITE + PYRRHOTITE: 1% -DISS QUARTZ VEINS: 5-14	145.9	147.4	1.5	3804	21	
				149.6	151.3	1.7	3805	235	.006
				151.3	153.0	1.7	3806	35	.002
				153.0	155.0	2.0	3807	4150	.140
156.3	182.7		Basalt: Typically GREEN-GREY TO DARK GREY; LOCAL SECTIONS OF 4% PINK GARNETS; NON-CALCAREOUS; TYPICALLY NON-MAGNETIC; POORLY FACIATED BY 45° TO C.A. UNHOLE; UNEVALUATED DOWNHOLE; 182.8-185.7m: V. HARD (MOR=7); 169.9-170.1m: BROKEN CORE; 179.0m: 5cm GAUGE;	182.1	183.5	1.4	3808	16	

HOLE NO. N 23-11
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. MIS

Diamond Drill
 COMPANY NAME WESTERN DRILLING INDUSTRIES LTD
 PROPERTY NAME Mishikam River Property
 DRILLING CONTRACTOR Langley Drilling / Brampton Ont.
 ASSAYER Acme Analytical Labs / Vancouver, B.C.
 PURPOSE OF HOLE _____

EAST		FOOTAGE		METHOD:	
ELEVATION		AZIMUTH		DIP	
LOGGED BY					
DATE LOGGED					
MAP REFERENCE		NO. <u>ATS 52 P/4</u>			

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS
				FROM	TO	
			ALTERATION. COMMON MAP SERVICING BLENDING IN			
			BANDS UP HOLE;			
			MINERALIZATION. SULPHIDES TYPICALLY 65% DISS			
			12.1-12.5m PYRITE 51% DISS IN SULPHIDES			
			ZONE			
			MAGNETITE: TRACE DISS. LOCALLY;			
1887			END OF HOLE			
			NOTES			
			1. CASING LEFT IN HOLE.			
			<i>J. J. [Signature]</i>			

DRIILL LOG

CLAR.	15 27 N
FOOTAGE	0.0
ASHTH	170°
SP	-49
ELEVATION	60.7
LOGGED BY	G. GAZDARSKI
DATE LOGGED	2-15-1988
MAP REFERENCE	NO. 15 52 P/4
METHOD	ACID

PROPERTY NAME: MISHKANI RIVER PROPERTY
 DRILLING CONTRACTOR: WAGLEY DRILLING/BRAMPTON ONT.
 ASSAYER: ACME ANALYTICAL LABS/VANCOUVER, B.C.
 PURPOSE OF HOLE: TO TEST FOR EXTENSION OF MINERALIZATION

CLAIM NAME: B. 216708
 COMMENCED: DECEMBER 8, 1988
 FINISHED: DECEMBER 12, 1988
 PROJECT NO.: MIS

EXPLAINED IN DRH'S M-88-5 AND 6

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS
				FROM	TO	
			<u>Summary Log</u>			
0.0	7.5		CASING			
7.5	59.8		GABBRO			
59.8	70.4		ALTERED BASALT (?)			
70.4	73.7		BASALT AND MAGNETITE IRON FORMATION			
73.7	78.7		ALTERED BASALT (?)			
78.7	80.0		MAGNETITE IRON FORMATION			
80.0	83.0		QUARTZ-SERICITE SCHIST			
83.0	94.0		ALTERED BASALT (?)			
94.0	97.5		BIOTITE-CHLORITE SCHIST			
97.5	101.4		CHLORITE-SERICITE SCHIST			
101.4	102.7		BASALT			
102.7	108.9		SERICITE-BIOTITE-CHLORITE SCHIST			
108.9	111.4		SERICITE-CHLORITE SCHIST			
111.4	111.9		MAGNETITE-CHLORITE IRON FORMATION			
111.9	119.4		SERICITE-QUARTZ SCHIST			
119.4	120.1		PYRITE IRON FORMATION AND CHLORITE SCHIST			
120.1	128.8		SERICITE-QUARTZ SCHIST			
128.8	129.2		PYRRHOTITE IRON FORMATION			
129.2	129.4		SERICITE-QUARTZ EYE SCHIST			

Drilling Record

HOLE NO. M-33-12

CLAIM NAME _____

COMMENCED _____

FINISHED _____

PROJECT NO. _____

COMPANY NAME Northwest Property

PROPERTY NAME MISCHKOV RIVER

DRILLING CONTRACTOR _____

ASSAYER _____

PURPOSE OF HOLE _____

COLLAR		HOLE SURVEY	
NORTH	FOOTAGE	AZIMUTH	DIP
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.			METHOD:

FROM m	TO m	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS
				FROM m	TO m	
189.4	197.2		SERICITE-CHLORITE SCHIST			
197.2	207.0		SERICITE-QUARTZ EYE SCHIST			
207.0	217.4		SERICITE-CHLORITE SCHIST			
217.4	218.3		METACHERT AND SERICITE-CHLORITE SCHIST			
218.3	224.1		SERICITE-CHLORITE SCHIST			
224.1	227.4		SERICITE-QUARTZ EYE SCHIST			
227.4	248.8		SERICITE-CHLORITE SCHIST			
248.8	252.2		SERICITE-QUARTZ EYE SCHIST			
252.2	255.6		SERICITE SCHIST			
255.6	265.8		BANDER SERICITE-CHLORITE SCHIST			
265.8	271.6		SERICITE SCHIST			
271.6	282.5		SERICITE-CHLORITE SCHIST			
282.5	290.8		BASALT			
290.8	293.6		BOTTIC BASALT(?)			
293.6	304.5		BASALT			
	304.5		END OF HOLE			

HOLE SURVEY
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. HTS 51 P/4 METHOD: _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. MIS

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS
				FROM	TO WIDTH NO.	
0.0	7.5		CASING: A SINGLE WHITE PYRITE GRANITE CUBIC RECOVERED;			Au Ppb
7.5	59.8		GABBRO: 60% COARSE GRAINED (3-10mm CRYSTALS) OF MED. GREEN PYROXENE(?) MOTTLED WITH WHITE TO BLUE FELDSPAR (BLUE QUARTZ?); HOMOGENEOUS; NON-CALCAREOUS; NON-MAGNETIC; UNFOLiated; DOWNHOLE CONTACT SHARP AT 60 TO 61. AND MARKED BY 5cm CHILLED MARGIN; 19.1-20.4: BASALT - SEDIMENTAL CONTACTS WITH SURROUNDING GABBRO ALTERATION: 13.3-16.9m: 4% SERICITIC BLEACHING MAINLY ALONG FRACTURES - LOCAL IRON CARBONATE AND BLEACHING NEAR DOWNHOLE CONTACT; MINERALIZATION: PYRITE + PYRRHOTITE: < 1% - DISS QUARTZ + WHITE CARBONATE VEINETS: 1-3% THROUGHOUT - NO ASSOCIATED SULPHIDES	13.3	16.9 3.6 3809	67
				56.8	59.8 3.0 3810	11

HOLE SURVEY
 FOOTAGE ASUMTH DIP
 ELEVATION
 LOGGED BY
 DATE LOGGED
 MAP REFERENCE NO. ATS 51 P/4 METHOD:

PROPERTY NAME Mishikim River Property
 DRILLING CONTRACTOR LAUREY DRILLING BRAMPTON ONT.
 ASSAYER ACME ANALYTICALS VANCOUVER B.C.
 PURPOSE OF HOLE

CLAIM NAME
 COMMENCED
 FINISHED
 PROJECT NO. MIS

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS
				FROM	TO WIDTH NO.	
59.8	70.4		ALTERED BASALT (?): GRADATIONAL MED. GRAY (SERICITIZED?) AND MED. GREEN (CHERTIC) SECTIONS; UNIFORM TEXTURED; ~ 10% PINK GRANITE IN SOME CHERTIC SECTIONS; LOCALLY VERY SILICEOUS (IN SERICITIZED SECTIONS); NON-CALCAREOUS; LOCALLY MAGNETIC (MAGNETITE); POORLY TO MOD. FOLIATED AT 55° TO C.A.; DOWNHOLE CONTACT GRADATIONAL OVER 1cm; 62.5-62.7: MAGNETIC IRON FOL; ALTERATION: MODERATE BLEACHING (SERICITIZATION?) OVER 50% OF UNIT; MINERALIZATION: PYRITE: 59.8-62.2: 3% - DISS AND CLOTS 62.2-66.3m: ~1% - DISS 66.3-69.9m: <1% 69.9-70.4: 2% - DISS AND IN VEINS PYRRHOTITE: <1% - DISS CHALCOPYRITE: TRACE - DISS MAGNETITE: LOCALLY 2% - DISS IN SOME CHERTIC SECTIONS QUARTZ + WHITE CARBONATE VEINETS: ~1%	59.8	62.2 2.4 3811	Au ppb 15
				62.2	64.4 2.2 3812	1
				64.4	66.3 1.9 3813	1
				66.3	68.3 2.0 3814	5
				68.3	70.4 2.1 3815	27

CLAIM NO. _____
 HOLE NO. M-88-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. MIS

PROPERTY NAME Mishkon River Property
 DRILLING CONTRACTOR Lowley Drilling/Brantford, Ont.
 ASSAYER Acme Analytical Labs/Vancouver, B.C.
 PURPOSE OF HOLE _____

COMPANY NAME WATERBURY CONSULTANTS LTD
 PROPERTY NAME Mishkon River Property
 DRILLING CONTRACTOR Lowley Drilling/Brantford, Ont.
 ASSAYER Acme Analytical Labs/Vancouver, B.C.
 PURPOSE OF HOLE _____

FROM (m)	TO (m)	RECOVERY %	DESCRIPTION	SAMPLE		ASSAYS				
				FROM	TO		WIDTH	NO.		
70.4	73.7		BASALT AND MAGNETITE IRON FORMATION: MED. GREEN	70.4	72.3	1.9	3816	Au	ppb	14
			HOMOGENEOUS BASALT WITH 5% PINK GARNETS HOSTING	72.3	73.7	1.4	3817			3
			15% INTERCALATED SECTIONS (5-30cm WIDE) OF MAGNETIC							
			IRON FORMATION (BLACK MAGNETIC BANDS IN LIGHT							
			GRAY GORTX (MAGNETITE) MATRIX - BOTH SHARP AND							
			GRADATIONAL CONTACTS WITH BASALT); NON-CALCAREOUS;							
			BASALT IS LOCALLY MAGNETIC (MAGNETITE); POORLY							
			FOLIATED/BANDED AT 55° TO C.A.; DOWNHOLE CONTACT							
			SHARP AT 55° TO C.A. PARALLEL TO MAGNETITE BANDS							
			ALTERATION: LOCAL SERICITIC BLEACHING IN BASALT							
			MINERALIZATION: MAGNETITE: 10-40% IN IRON FM							
			53% IN BASALT							
			PYRITE: 2-8% IN IRON FM (AFTER MAGNETITE)							
			52% IN BASALT - DISS AND CLOTS							
			PYRRHOTITE: 5% DISS IN BASALT ONLY							

HOLE SURVEYED
 FOOTAGE (AZIMUTH) OF
 EAST
 ELEVATION
 LOGGED BY
 DATE LOGGED
 MAP REFERENCE NO. ATS 52 P/4 METHOD:

Diamond Drill Record

HOLE NO. M-88-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

PROPERTY NAME Misenkwa River Property
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

COLLAR: _____
 NORTH _____
 EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. _____

HOLE SURVEY:
 FOOTAGE _____ AZIMUTH _____ DIP _____

METHOD: _____

FROM (m)	TO (m)	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS			
				FROM ^m	TO ^m WIDTH	NO.	Au		
73.7	78.7		ALTERED BERRILLIN: SIMILAR TO 59.8-70.4m; NON-MAGNETIC; PEARLY TO MOD. EQUATED AT 60° TO C.A.; DOWNHOLE CONTACT SHARP AT 70° TO C.A. PARALLEL TO FOLIATION; ALTERATION: MOD. BLEACHING (SERICITIZATION) OVER 30% OF UNIT MINERALIZATION: PYRITE: 62% - DISS AND IN VEINS PYRRHOTITE: 41% - DISS AND IN VEINS QUARTZ & WHITE CARBONATE VEINS: 2%	73.7	76.6	2.9	3818	9	
				76.6	78.7	2.1	3819	1	
78.7	80.0		MAGNETITE IRON FORMATION: PROMINENT BLACK MASSIVE MAGNETITE BANDS (5-1cm WIDE) IN LIGHT GREY QUARTZ (MOTTLED) WITH PYRITE DISS THROUGHOUT; NON-CALCAREOUS; WELL BANDED AT 70° TO C.A.; DOWNHOLE CONTACT SHARP AT 70° TO C.A. PARALLEL TO BANDING; ALTERATION: NIL? MINERALIZATION: MAGNETITE: 35% PYRITE: 6% - DISS AND CLAYS	78.7	80.0	1.3	3820	12	

Diamond Drill Record

1953

COLLAR		HOLE SURVEY	
NORTH	EAST	FOOTAGE	AZIMUTH
			DIP
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.		METHOD:	

COMPANY NAME WORTHEN'S SYNASTY
 PROPERTY NAME MISSISSIPPI RIVER PROPERTY
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. M-22-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

FROM M	TO M	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS		
				FROM	TO		WIDTH	NO.
94.0	97.5		BIOTITE-CHLORITE SCHIST: BROWN-GREY (BIOTITIC) WITH 10% DIFFUSE MED. GREEN (CHLORITIC) BANDS; NON-CALCAREOUS NON-MAGNETIC; RELATIVELY UNIFORM; MOD. TO WELL FOLIATED AT 75' TO C.A.; DOWNHOLE CONTACT GRADATIONAL OVER 40cm; ALTERATION: NIL? MINERALIZATION: PYRITE: SLT-DISS AND IN VEINS PYRRHOTITE: <SLT-DISS. QUARTZ + WHITE CARBONATE VEINLETS: 3%.	94.0	95.5	1.5	3825	Au ppb 13
97.5	101.4		CHLORITE-SERICITE SCHIST: LIGHT TO MED. GREEN; RELATIVELY HOMOGENEOUS: 3% BIOTITE SCHIST BANDS (55cm WIDE) NON-CALCAREOUS; NON-MAGNETIC; WELL FOLiated AT 65' TO C.A.; DOWNHOLE CONTACT GRADATIONAL OVER 3cm; ALTERATION: POSSIBLY A PARTIALLY SERICITIZED BASALT; MINERALIZATION: PYRITE + PYRRHOTITE: <SLT-DISS AND IN VEINS QUARTZ + WHITE CARBONATE VEINLETS: 5%.	97.5	99.4	1.9	3827	1
				99.4	101.4	2.0	3828	4

Diamond Drill Record

COLLAR NORTH		HOLE SURVEY	
EAST		FOOTAGE	AZIMUTH
ELEVATION		DIP	
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.		METHOD:	

COMPANY NAME NORBERTY SYSTEMS
 PROPERTY NAME ALASKAN RIVER PROPERTY
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. M-33-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

FROM m	TO m	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS		
				FROM m	TO m		WIDTH	NO.
101.4	102.7		BASALT: MED TO DARK GREEN; MASSIVE, HOMOGENEOUS, NON-CALCAREOUS, NON-MAGNETIC; VENEILATED TO POORLY FOLIATED AT 70° TO C.A.; DOWNHOLE CONTACT DISRUPTED BY QUARTZ VEINING ALTERATION: LOCAL SERICITIC BLEACHING MINERALIZATION: SULPHIDES <1% - DISS QUARTZ + WHITE CARBONATE VEINLETS: ST.	101.4	102.7	1.3	3829	Au Ppb 1
102.7	102.9		SERICITE - BIOTITE - CHLORITE SCHIST: DIFFUSELY BANDED (<200m WIDE) LIGHT GREY (SERICITIC), BROWN-GREY (BIOTIC) AND MED. GREEN (CHLORITIC); NON-CALCAREOUS; NON-MAGNETIC; WELL EQUATED AT 60° TO C.A.; DOWNHOLE CONTACT IN GROUND CORE; ALTERATION: A PARTIALLY SERICITIZED ZONE? MINERALIZATION: PYRITE: <1% - DISS AND IN VEINS QUARTZ WHITE CARBONATE VEINLETS: ST. 105.7-105.9: MAGNETITE (20%) - GRANITE (INT) IRON FORMATION, PYRITE = 1%;	102.7	105.9	3.2	3830	3
				105.9	106.9	3.0	3831	1

Diamond Drill Log

CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

COMPANY NAME WORTHINGTON DYNALCO
 PROPERTY NAME MILSEKAW REVERSE PROPERTY
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE SURVEY:	
FOOTAGE	DIP

COLLAR NORTH _____
 EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. _____
 METHOD: _____

FROM M	TO M	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS			
				FROM M	TO M	WIDTH	NO.	AU PPB	AG PPB
111.9	119.4		SERICITIC- QUARTZ SCHIST: BEGINNING OF THE MAIN ALTERATION ZONE; GRADATIONALLY LIGHT TO MED. GREY WITH MINOR PINK-ORANGE IRON CARBONATE- STAINING SECTIONS; NON-CALCAREOUS; NON-MAGNETIC; LOCALLY EST. CLIP AND/OR BLUE QUARTZ EYES; WELL FOLIATED AT 60° TO S.A.; DOWNHOLE CONTACT GRADATIONAL OVER 15cm; MED SILICEOUS;	111.9	114.9	3.0	3834	1	
				114.9	117.9	3.0	3835	5	
				117.9	119.4	1.5	3836	35	
119.4	120.1		PYRITE IRON FORMATION AND CHLORITE SCHIST: MED. TO DARK GREEN SCHIST HOSTING PYRITE IRON FOL; NON-CALCAREOUS; NON-MAGNETIC; VERY SILICEOUS THROUGHOUT; WELL FOLIATED AT 65° TO S.A.; DOWNHOLE CONTACT GRADATIONAL OVER 7cm;	119.4	120.1	0.7	3837	12430	0.348
									11931
			ALTERATION: INTENSE SILICIFICATION AND QUARTZ VEINING; MINERALIZATION: PYRITE: 119.8-120.0 (IRON FOL); 30% - DISS & CLAYS - < 1% ELSEWHERE						
			QUARTZ VEINS: 15% IN SCHIST ONLY						

HOLE NO. A-88-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

COMPANY NAME MISSEKOW RIVER PROPERTY
 PROPERTY NAME MISSEKOW RIVER PROPERTY
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE SURVEY
 FOOTAGE AZIMUTH DIP
 EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. _____
 METHOD: _____

FROM m	TO m	RECOVERY	DESCRIPTION	SAMPLE			ASSAYS		
				FROM _m	TO _m	WIDTH _m	NO.	Au	Au RECOVERY oz/ton ppb
120.1	128.8		SERICITE-QUARTZ SCHIST: SIMILAR TO 111.9-119.4 m; WHITE TO MED. GREY WITH COMMON PINK-ORANGE IRON CARBONATE STAIN; LOCALLY 5% CLEAR AND/OR BLUE QUARTZ EYES; WELL FOLIATED AT 55' TO C.A.; DOWNHOLE CONTACT GRADATIONAL OVER 1 cm; ALTERATION: PROBABLY A SERICITIC ALTERATION ZONE - IRON CARBONATE: 30% GRADATIONAL SECTIONS OF 5.5% IRON CARBONATE MAINLY ON FOLIATION PLACES; MINERALIZATION: SULPHIDES: <1% - DISS QUARTZ VEINS: 1%.	120.1	122.9	2.8	3838	976	
				122.9	125.9	3.0	3839	245	
				125.9	128.8	2.9	3840	7	
128.8	129.2		PYRRHOTITE IRON FORMATION: DISS AND WISPY PYRRHOTITE IN LIGHT GREY QUARTZ (METACHERT); NON-CALCAREOUS; MAGNETIC (PYRRHOTITE); 2 cm OF CHLORITE SCHIST AT EACH CONTACT; WELL FOLIATED AT 70° TO C.A.; DOWNHOLE CONTACT GRADATIONAL OVER 3 cm;	128.8	129.2	0.4	3841	72	6,001 634

Diamond Drill Record

HOLE NO. M-88-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

PROPERTY NAME MISHKAM KUMAR PROPERTY
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE SURVEY	
FOOTAGE	DIP

EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. _____

FROM M	TO M	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS	
				FROM M	WIDTH NO.		
			ALTERATION: NIL?			Au	
			MINERALIZATION: PYRRHOTITE: 5% PYRITE/CHALCOOPYRITE: <1% - DISS. & WISDS			Ppb	
129.2	189.4		SERICITE - QUARTZ EYE SCHIST: MAIN ALTERATION ZONE; PREDOMINANTLY GRADATIONAL FROM WHITE TO LIGHT GREY WITH PINK-ORANGE IRON CARBONATE - STAINED SECTIONS; 5-10% CLEAR AND/OR BLUE QUARTZ EYES (53mm DIP) THROUGHOUT; HOMOGENEOUS; MOD. TO VERY SILICIOUS; NON-CALCAREOUS; NON-MAGNETIC; WELL FOLIATED AT ~60° TO C.A. THROUGHOUT; DOWNHOLE CONTACT IN BROKEN CORE; MOD. BROKEN CORE AT 141.5-141.7m AND 156.2-156.5m; ALTERATION: PROBABLY A SILICIC AND SERICITIC ALTERATION ZONE; - IRON CARBONATE - 5% ON FOLIATION FRAMES AT 138.8-144.7m AND 151.7-159.4m;	129.2	3.0	3842	4
				132.2	3.1	3843	24
				135.3	3.2	3844	28
				138.5	1.8	3845	158
				140.3	2.0	3846	73
				142.3	2.4	3847	78
				144.7	2.0	3848	149
				146.7	2.0	3849	10
				148.7	3.0	3850	15
				151.7	3.0	3851	425
				154.7	2.0	3852	16
				156.7	2.7	3853	5
				159.4	3.0	3854	1
				162.4	3.0	3855	1
				165.4	3.0	3856	42
				168.4	3.0	3857	1

MINERALIZATION: SULPHIDES - <1% - DISS AND ON FRACTURES
 QUARTZ VEINS: TYPICALLY <1%
 138.5-143.5m: 10%

Diamond Drill Record

HOLES NO. M-88-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

COMPANY NAME NORTHERN EXPLORATION
 PROPERTY NAME MISELAKOM RIVER PROPERTY
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

COLLAR _____
 NORTH _____
 EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. _____

FOOTAGE AZIMUTH DIP

METHOD: _____

FROM M	TO M	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS		
				FROM M	TO M		WIDTH	NO.
171.4	174.4			171.4	174.4	3.0	3858	Ag Ppb 3
174.4	177.4			174.4	177.4	3.0	3859	122
177.4	180.4			177.4	180.4	3.0	3860	1050
180.4	185.4			180.4	185.4	3.0	3861	127
183.4	186.4			183.4	186.4	3.0	3862	111
186.4	189.4			186.4	189.4	3.0	3863	28
189.4	192.4		SERICITE-CHLORITE SCHISTS LIGHT GREEN TO LIGHT GREY; ± 10% DISS. CHLORITE IN VERY SOFT SERICITIC MATRIX; HOMOGENEOUS; NON-CALCAREOUS; NON-MAGNETIC; WELL FOLIATED: 189.4-194.0 → VARIES 0°-90° TO C.A. (FOLDED)	189.4	192.4	3.0	3864	132
192.4	195.4		PREDOMINANTLY IN BROKEN CORE AND LOCAL GORGE; LOCALLY TWO PROMINENT FOLIATIONS CROSSING AT 90° EVIDENT;	192.4	195.4	3.0	3865	38
195.4	197.2		194.0-197.2 → 60° TO C.A.; DOWNHOLE CONTACT IN BROKEN CORE	195.4	197.2	1.8	3866	325
			195.4-195.6m: METACHERT WITH 3% PYRITE AND 1% ARSENOPYRITE ALTERATION: A SERICITIC ALTERATION ZONE? MINERALIZATION: TYPICALLY < 1% SULPHIDES QUARTZ ± WHITE CARBONATE VEINS; < 1%.					

Diamond Drill Record

HOLE NO. 38-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

COMPANY NAME WATKINS & DAVIES
 PROPERTY NAME MISEKON RIVER PROPERTY
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE SURVEY	
FOOTAGE	AZIMUTH DIP

EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. _____
 METHOD: _____

FROM m	TO m	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS		
				FROM m	TO m		WIDTH m	NO.
197.2	207.0		SERICITE-QUARTZ EYE SCHIST: SIMILAR TO 129.2-189.4m; WHITE TO LIGHT GREY; HOMOGENEOUS; 10% CLARS AND/OR BLUE QUARTZ EYES THROUGHOUT; NON-CALCAREOUS; NON-MAGNETIC; WELL FOLIATED AT 65° TO C.A.; DOWNHOLE CONTACT GRADATIONAL OVER 2cm; MOD. BROKEN CORE AT 206.4-206.6m; 14. BANDS AND CLASTS (2cm WIDE) OF LIGHT GRAY QUARTZ (POSSIBLY METACHERT); LOCALLY HOSTS 5-1% DISS PYRITE; ALTERATION: PROBABLY A SILICK AND SERICITIC ALTERATION ZONE WITH LOCAL REMNANT METACHERT; MINOR Fe-Mn CARBONATES; MINERALIZATION: PYRITE: TYPICALLY < 1% - DISS AND ON FRACTURES : 5-1% OVER 2cm IN, METACHERT (?) BANDS	197.2	200.7	3.5	3867	Au ppb 20
				200.7	203.7	3.0	3868	74
				203.7	207.0	3.3	3869	46
207.0	217.4		SERICITE-CHLORITE SCHIST: LIGHT GREY; RELATIVELY HOMOGENEOUS; 2-30% DISS. CHLORITE IN MOD. SILICEOUS SERICITIC MATRIX; NON-CALCAREOUS; NON-MAGNETIC; WELL FOLIATED AT 50° TO C.A.; DOWNHOLE CONTACT GRADATIONAL OVER 4cm; ALTERATION: PROBABLY A SERICITIC ALTERATION ZONE;	207.0	209.2	2.2	3870	22
				209.2	212.1	2.9	3871	38
				212.1	214.4	2.3	3872	2130
				214.4	217.4	3.0	3873	315

DIAMOND DRILL RECORD

HOLE NO. M-88-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

COMPANY NAME MINERAL EXPLORATION
 PROPERTY NAME MISENKOW KIVAT PROPERTY
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE SURVEY
 FOOTAGE AZIMUTH DIP
 EAST _____
 ELEVATION _____
 LOGGED BY _____
 DATE LOGGED _____
 MAP REFERENCE NO. _____
 METHOD: _____

FROM M	TO M	RECOVY	DESCRIPTION	SAMPLE		ASSAYS
				FROM _m	TO _m WIDTH NO.	
			MINERALIZATION: 207.0-209.2. PYRITE: <1% - DISS.			
			209.2-214.4m: PYRITE: 2% - MAINLY CLATS IN QUARTZ VEINS; ALSO DISS; ARSENOPYRITE: <1% - ASSOCIATED WITH PYRITE			
			PYRRHOTITE: 1% - ASSOCIATED WITH PYRITE			
			QUARTZ VEINS: 3%.			
			214.4-217.4m: PYRITE: <1% - DISS AND IN VEINS			
			QUARTZ VEINS: 2%.			
217.4	218.3		METACHERT AND SERICITE-CHLORITE SCHIST: 50% WHITE TO LIGHT GREY METACHERT BANDS AND ANGULAR CLASTS (6.10cm WIDE) IN SERICITE-CHLORITE SCHIST (AS 207.0-217.4m); NON-CALCAREOUS; NON-MAGNETIC; MOD. TO WELL FOLIATED AT 40° TO C.A.; DOWNHOLE CONTACT SHARP AT 40° TO C.A. PARALLEL TO FOLIATION;	217.4	218.3 0.9 3874	146
			ALTERATION: SCHIST IS PROBABLY SERICITIZED.			
			MINERALIZATION: PYRITE: <1% - DISS AND CLATS THROUGHOUT			
			PYRRHOTITE: <1% - DISS, CLATS AND VEINETS;			

Diamond Drill Record

COLLAR: _____		HOLE SURVEY: _____	
NORTH _____	EAST _____	FOOTAGE _____	AZIMUTH _____
ELEVATION _____	LOGGED BY _____	DIP _____	
DATE LOGGED _____	MAP REFERENCE NO. _____	METHOD: _____	

COMPANY NAME NORTHERN ONYX
 PROPERTY NAME MUSKOGEE RIVER PROPERTY
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

FROM M	TO M	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS		
				FROM M	TO M		WIDTH	NO.
218.3	224.1		SERICITE-CHLORITE SCHIST: SIMILAR TO 207.0-217.4; COMMONLY 5% CLEAR AND BLUE QUARTZ EYES; MOD. TO WELL FOLIATED AT 50' TO C.A.; DOWNHOLE CONTACT GRABATIONAL OVER 10cm; ALTERATION: A MOD. SERICITIC ALTERATION ZONE? MINERALIZATION: 218.3-219.5: PYRITE; 1%-DISS AND WISPERS ARSENOPYRITE; 5%-CLAYS 219.5-224.1: PYRITE; 5%-DISS AND CLAYS	218.3	219.5	1.2	3875	Au ppb 69
				219.5	221.9	2.4	3876	24
				221.9	224.1	2.2	3877	7
224.1	227.4		SERICITE-QUARTZ EYE SCHIST: SIMILAR TO 129.2-189.4; WHITE TO LIGHT GREY; MOD. TO VERY SILICEOUS; 2-5% CLEAR AND BLUE QUARTZ EYES; WELL FOLIATED AT 20-35° TO C.A.; LOCAL DIFFUSE COMPOSITIONAL BANDING (BEDDING?) - PERPENDICULAR TO FOLIATION; DOWNHOLE CONTACT GRABATIONAL OVER 3cm; ALTERATION: PROBABLY A SILICE AND SERICITIC ALTERATION ZONE; MINERALIZATION: SULPHIDES: 1%-DISS AND AN FRACTURES	224.1	227.4	3.3	3878	12

HOLE NO. M-28-12

CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

Diamond Drill Core
 COMPANY NAME: MILSKOW RIVER PROPERTY

PROPERTY NAME: MILSKOW RIVER PROPERTY
 DRILLING CONTRACTOR: _____
 ASSAYER: _____
 PURPOSE OF HOLE: _____

CORNER:		HOLE SURVEY	
EAST	FOOTAGE	AZIMUTH	DIP
ELEVATION	LOGGED BY	METHOD:	
DATE LOGGED	MAP REFERENCE NO.		

FROM M	TO M	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS			
				FROM TO	WIDTH NO.				
227.4	248.8		SERICITE-CHLORITE SCHIST: SIMILAR TO 207.0-217.4m; LIGHT GREEN TO LIGHT GREY; GRADATIONAL SECTIONS OF 5% TO 20% DISS CHLORITE; COMMON SECTIONS OF 5% CLEAR BANDS BLUE QUARTZ EYES; NON-CALCAREOUS; NON-MAGNETIC; WELL FOLIATED AT 40° TO C.A. EXCEPT AT 236.8-237.4m FOLIATED AT 0°-20° TO C.A. (BANKS CORE); DOWNHOLE CONTACT GRADATIONAL OVER 1cm; ALTERATION: A MOD. SERICITE ALTERATION ZONE? MINERALIZATION: TYPICALLY PYRITE < 1% 231.0-233.9m: PYRITE: 2% - CLOTS ARSENOPYRITE: 1% CLOTS	227.4	229.4	2.0	3879	Au ppb	104
				229.4	231.0	1.6	3880		95
				231.0	232.7	1.7	3881		88
				232.7	233.9	1.2	3882		181
				233.9	236.8	2.9	3883		7
				236.8	239.8	3.0	3884		1
				239.8	242.8	3.0	3885		5
				242.8	245.8	3.0	3886		1
				245.8	248.8	3.0	3887		2
248.8	252.2		SERICITE-QUARTZ EYE SCHIST: SIMILAR TO 129.2-189.4m; WHITE TO LIGHT GREEN; SILICEOUS; 5-10% CLOTS AND ISLAND QUARTZ EYES; NON-CALCAREOUS; NON-MAGNETIC; POORLY FOLIATED AT 80° TO C.A.; DOWNHOLE CONTACT SHARP AT 65° TO C.A. PARALLEL TO FOLIATION; ALTERATION: PROBABLY A SILIC AND SERICITE ALTERATION ZONE; MINERALIZATION: PYRITE: < 1% DISS; QUARTZ VEINS: 1%.	248.8	250.5	1.7	3888		2
				250.5	252.2	1.7	3889		65

Diamond Drill Record

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COLLAR NORTH		HOLE SURVEY	
EAST		FOOTAGE AZIMUTH DIP	
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.		METHOD:	

HOLE NO. <u>M-BA-12</u>
CLAIM NAME _____
COMMENCED _____
FINISHED _____
PROJECT NO. _____

COMPANY NAME <u>WILKINSON DYNASTY</u>
PROPERTY NAME <u>WILKINSON RIVER PROPERTY</u>
DRILLING CONTRACTOR _____
ASSAYER _____
PURPOSE OF HOLE _____

FROM M	TO M	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS		
				FROM M	TO M		WIDTH	NO.
265.8	271.6		SERICITE SCHIST: SIMILAR TO 252.2-255.6m; 3% CHLORITE SECTIONS; WELL FOLIATED AT 65° TO C.A.; DOWNHOLE CONTACT IN BROKEN CORE AND GORGE; BROKEN CORE AT 267.6-267.9m; BROKEN CORE AND GORGE AT 271.2-271.6m; 269.7-270.4m; QUARTZ AND SERICITE SILTY PEBBLE BRECCIA HOSTED BY SERICITE MATRIX; ALTERATION: A SERICITE ALTERATION ZONE? MINERALIZATION: PYRITE: 51% - RISE AND CLAY BAND PYRRHOTITE: <1% - ASSOCIATED WITH PYRITE QUARTZ VEINS: 3% AT 265.8-267.9m	265.8	267.9	2.1	3897	9
				267.9	269.7	1.8	3898	235
				269.7	271.6	1.9	3899	5
271.6	282.5		SERICITE-CHLORITE SCHIST: SIMILAR TO 207.0-217.4m; NON-CALCAREOUS; MAGNETIC TOWARD DOWNHOLE CONTACT (MAGNETITE); WELL FOLIATED AT 70° TO C.A.; DOWNHOLE CONTACT GRABATIONAL OVER 2m; VERY BROKEN CORE AT 276.3-276.6m; ALTERATION: A PARTIALLY SERICITIZED BASALT? MINERALIZATION: SULPHIDES TYPICALLY <1%. 276.3-278.6m; PYRITE 11%, PYRRHOTITE 51%. QUARTZ VEINS 4%.	271.6	274.2	2.6	3900	167
				274.2	276.3	2.1	3951	335
				276.3	278.6	2.3	3952	172
				278.6	280.3	1.7	3953	11
				280.3	282.5	2.2	3954	5

Diamond Drill Record

PAGE 21

HOLE SURVEY	
FOOTAGE	AZIMUTH
DIP	
EAST	
ELEVATION	
LOGGED BY	
DATE LOGGED	
MAP REFERENCE NO.	
METHOD:	

COMPANY NAME NORTHERN DYNASTY
 PROPERTY NAME MISSEKOW RIVER PROPERTY
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. M-88-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

FROM m	TO m	RECOVERY	DESCRIPTION	SAMPLE		ASSAYS		
				FROM m	TO m		WIDTH	NO.
282.5	290.8		<p><u>BASALT: MED. TO DARK GREEN WITH COMMON DARK</u> <u>MAGNETITE AND BIOTIC BANDS (5cm wide); CALCAREOUS</u> <u>(53% DISS CALCITE); POORLY FOLIATED AT 75° TO C.A.;</u> <u>DOWNHOLE CONTACT GRADATIONAL OVER 1cm;</u> <u>ALTERATION: 287.7-288.7m: 30% LIGHT GREY SERICIZED AND</u> <u>SILICIFIED SECTIONS WITH 5% PYRITE;</u> <u>MINERALIZATION: MAGNETITE: 1-5% - DISS AND IN CRUDE BANDS</u> <u>PYRITE: TYPICALLY <1% - DISS.</u></p>	282.5	288.0	1.5	3955	74
290.8	293.6		<p><u>BIOTIC BASALT(S) SIMILAR TO 282.5-290.8m BUT WITH 20%</u> <u>DISS. BIOTITE; MOD. FOLIATED AT 75° TO C.A.; DOWNHOLE</u> <u>CONTACT GRADATIONAL OVER 10cm;</u> <u>ALTERATION: BIOTITE ALTERED BASALT??</u> <u>MINERALIZATION: MAGNETITE: 5% - DISS AND IN CRUDE BANDS</u> <u>PYRITE: 5% - DISS AND CLOTS.</u> <u>QUARTZ + WHITE CARBONATE Veins: 5% - Locally 2% - DISS.</u></p>	290.8	293.6	2.8	3957	235

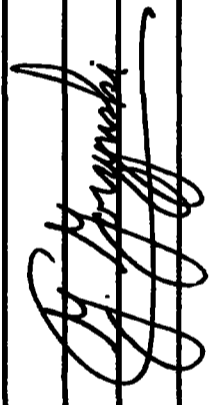
Diamond Drill Record

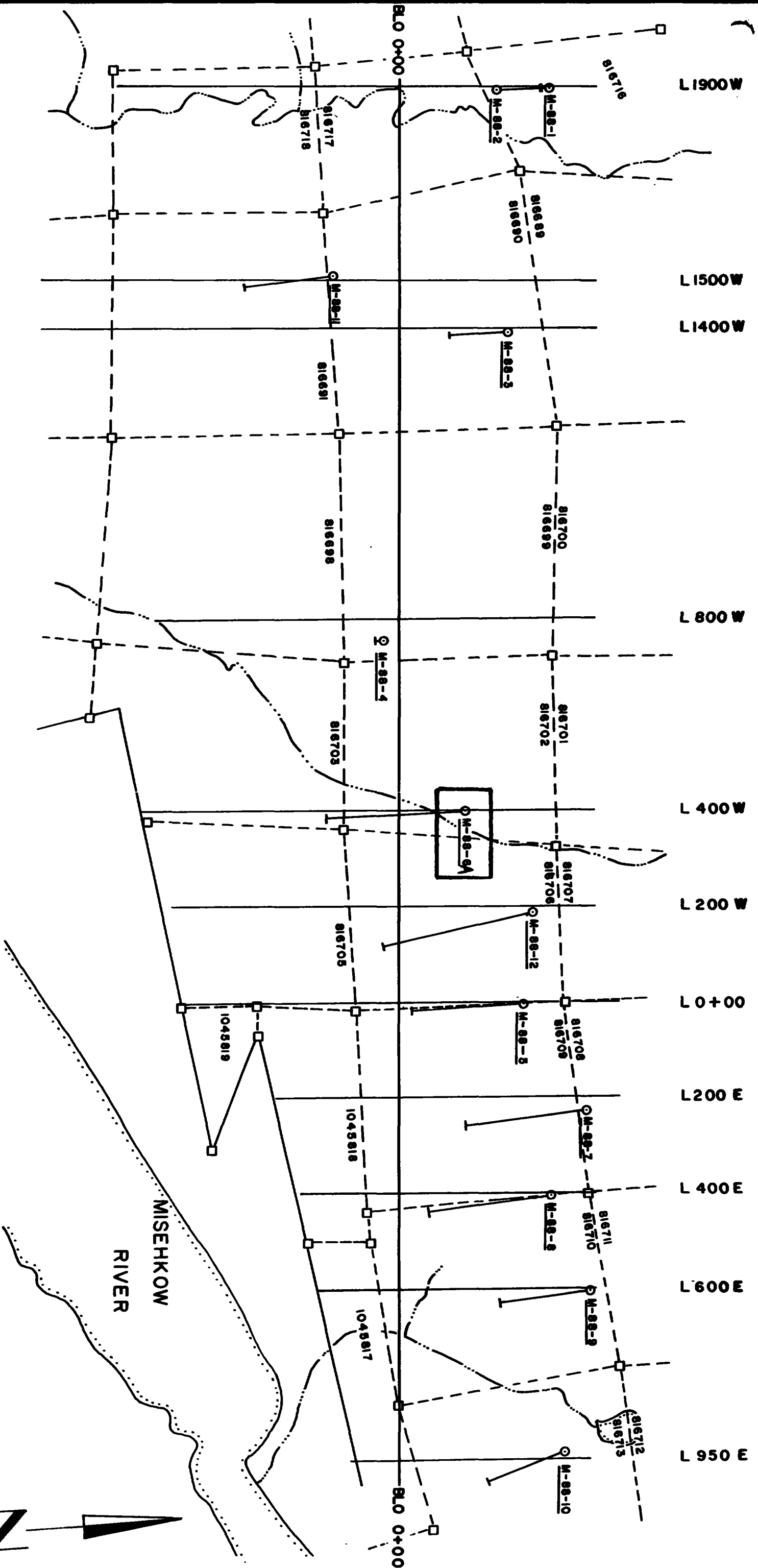
HOLE SURVEY:	
FOOTAGE	AZIMUTH / DIP
EAST	
ELEVATION	
LOGGED BY	
DATE LOGGED	
MAP REFERENCE NO.	METHOD:

COMPANY NAME SPYGLASS MINING COMPANY
 PROPERTY NAME MISHKAM KINER PROPERTY
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. M-88-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

FROM	TO	RECOVERY	DESCRIPTION	SAMPLE			ASSAYS	
				FROM	TO	WIDTH		NO.
293.6	304.5		BASALT: LIGHT TO DARK GREENS-GREYS, TYPICALLY MASSIVE; LOCAL MAFIC LAPILLI-TUFF (?) BANDS (≤ 20cm WIDE); 5% QUARTZ+WHITE CARBONATE AMYGDALUS (≤ 1cm DIAM) DOWNHOLE; LOCALLY CALCAREOUS (≤ 4% DISS WHITE CARBONATE) LOCALLY MAGNETIC (MAGNETITE); POORLY TO MOD. FOLIATED AT 70° TO S.A.; ALTERATION: LOCAL MOD. BLEACHING AT 294.8-299.4m MINERALIZATION: MAGNETITE: ≤ 4% - DISS SULPHIDES TYPICALLY < 1%. 294.8-299.4m: QUARTZ VEINS (1% WITH ≤ 1% ASSOCIATED PYRITE AND PYRRHOTITE;	294.8	297.6	2.8	3958	47
				297.6	299.4	1.8	3959	75
304.5			END OF HOLE/END OF PROGRAM					
			Notes					
			1. CASING LEFT IN HOLE.					


 G. J. Grynshel



NORTHERN DYNASTY EXPLORATIONS LTD.

MISEHKOW RIVER PROPERTY

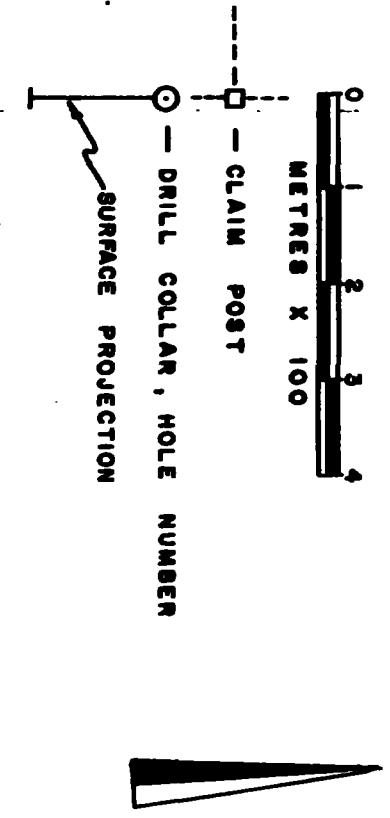
1988 DIAMOND DRILL HOLE

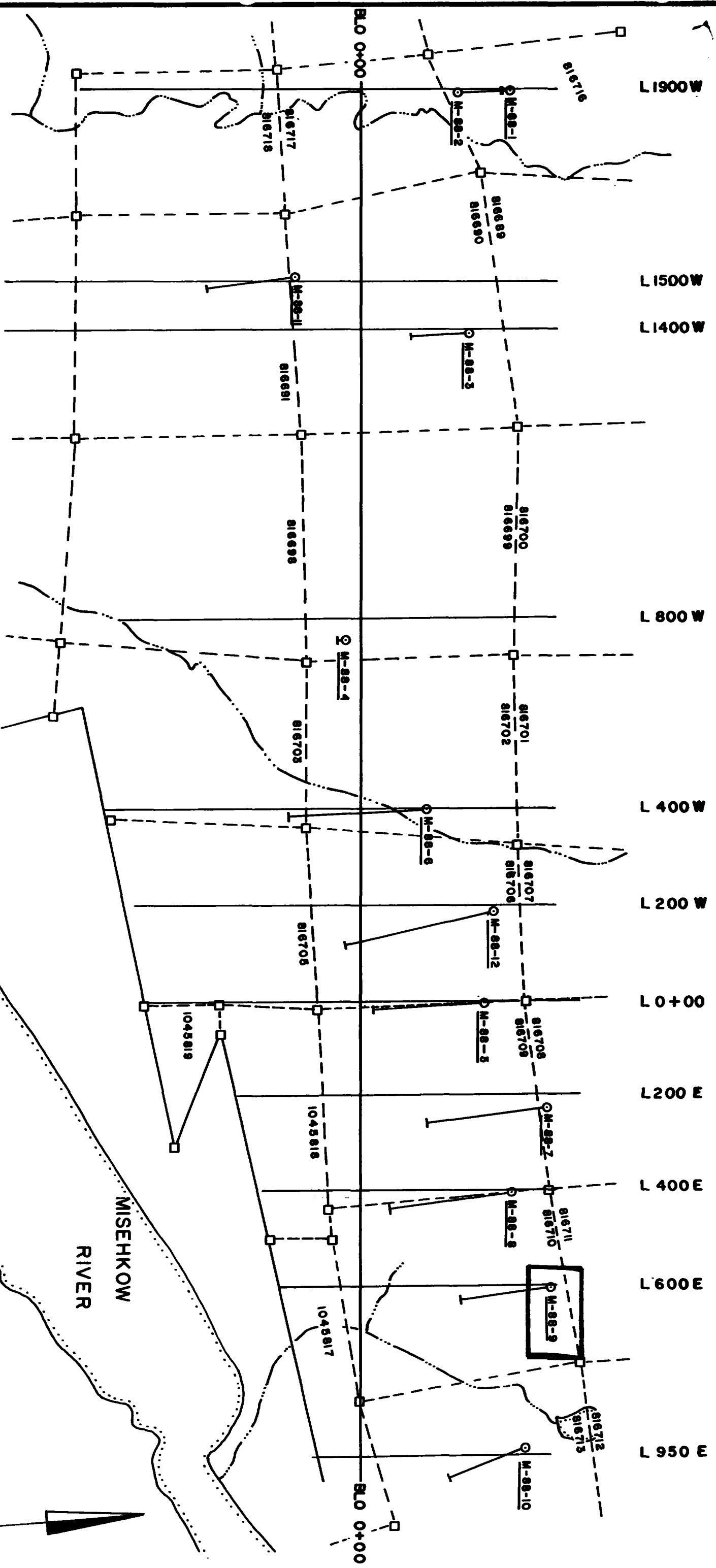
LOCATION MAP

CLAIM MAP : ACHAPI LAKE G-1920

NTS : 52 P/4

MARCH 1989





NORTHERN DYNASTY EXPLORATIONS LTD.

MISEHKOW RIVER PROPERTY

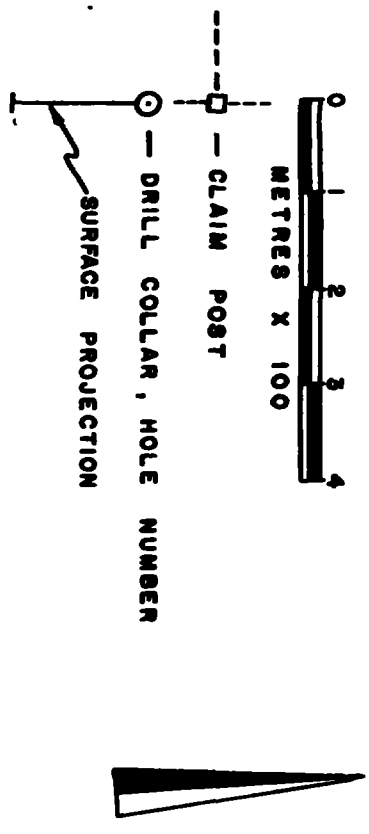
1988 DIAMOND DRILL HOLE

LOCATION MAP

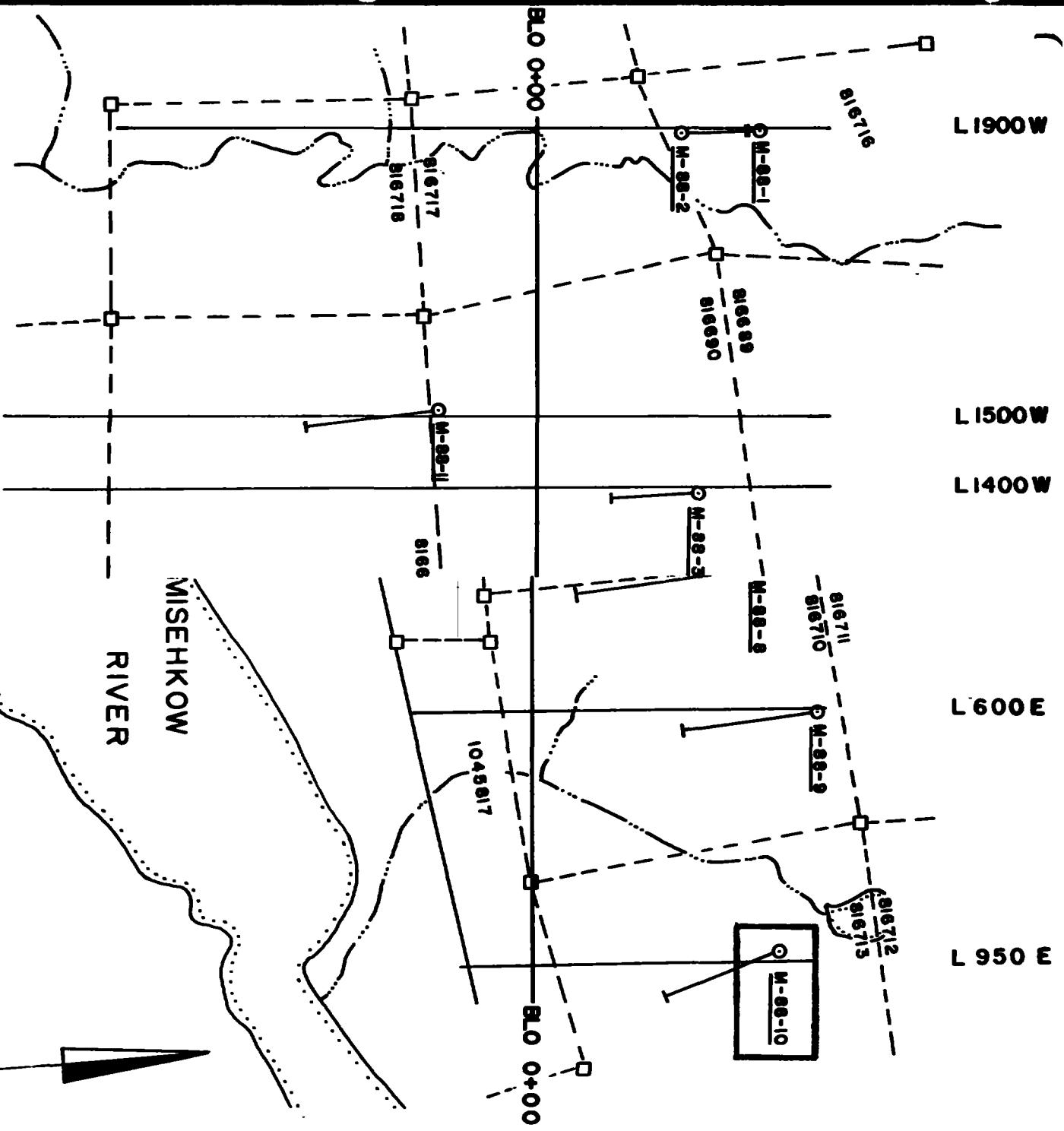
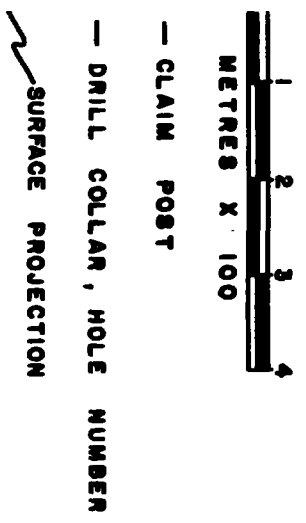
CLAIM MAP : ACHAPI LAKE G-1920

MARCH 1989

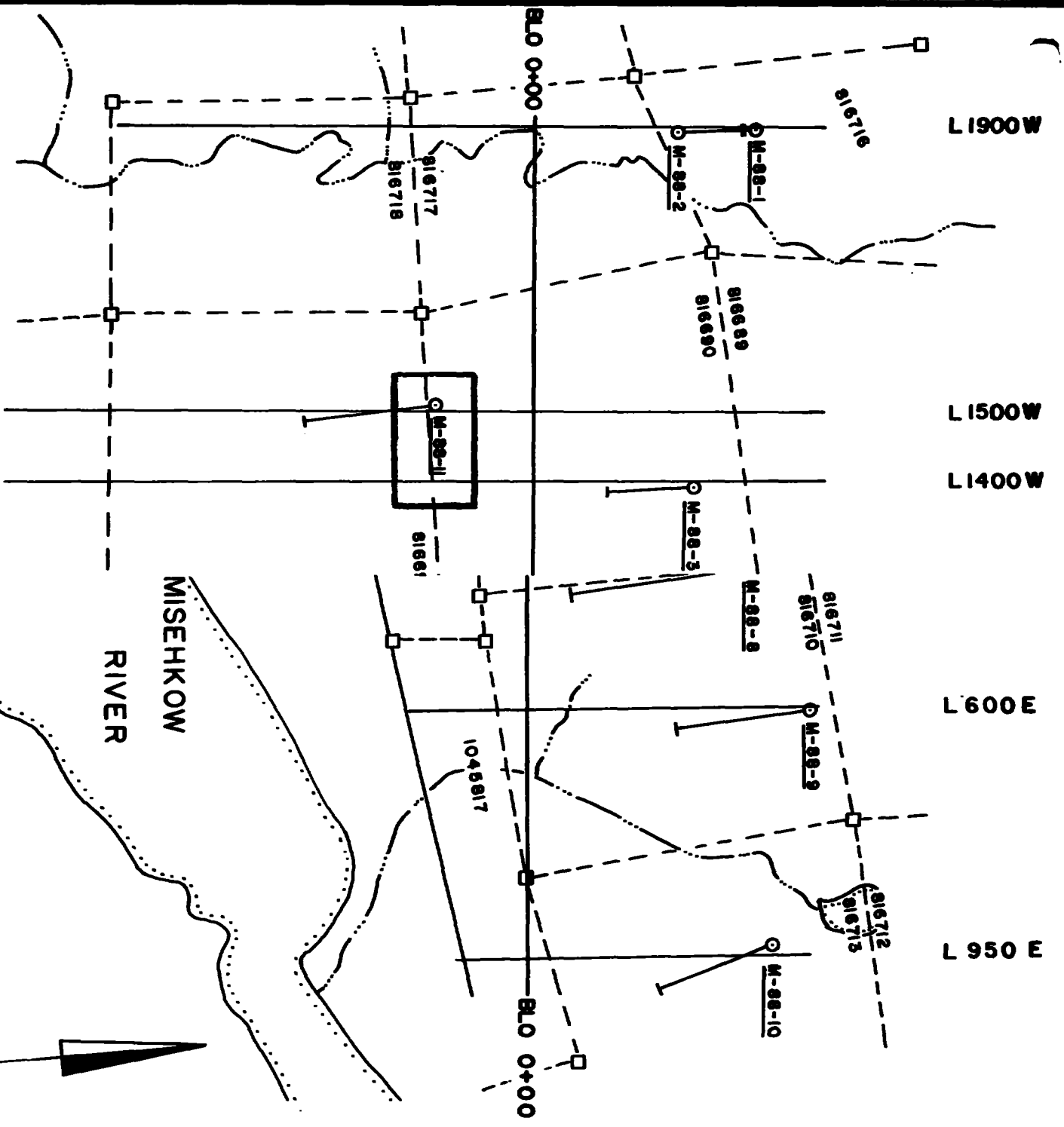
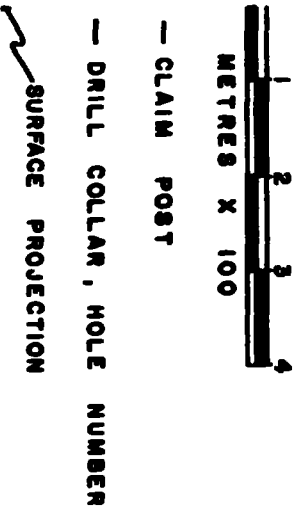
NTS : 52 P/4

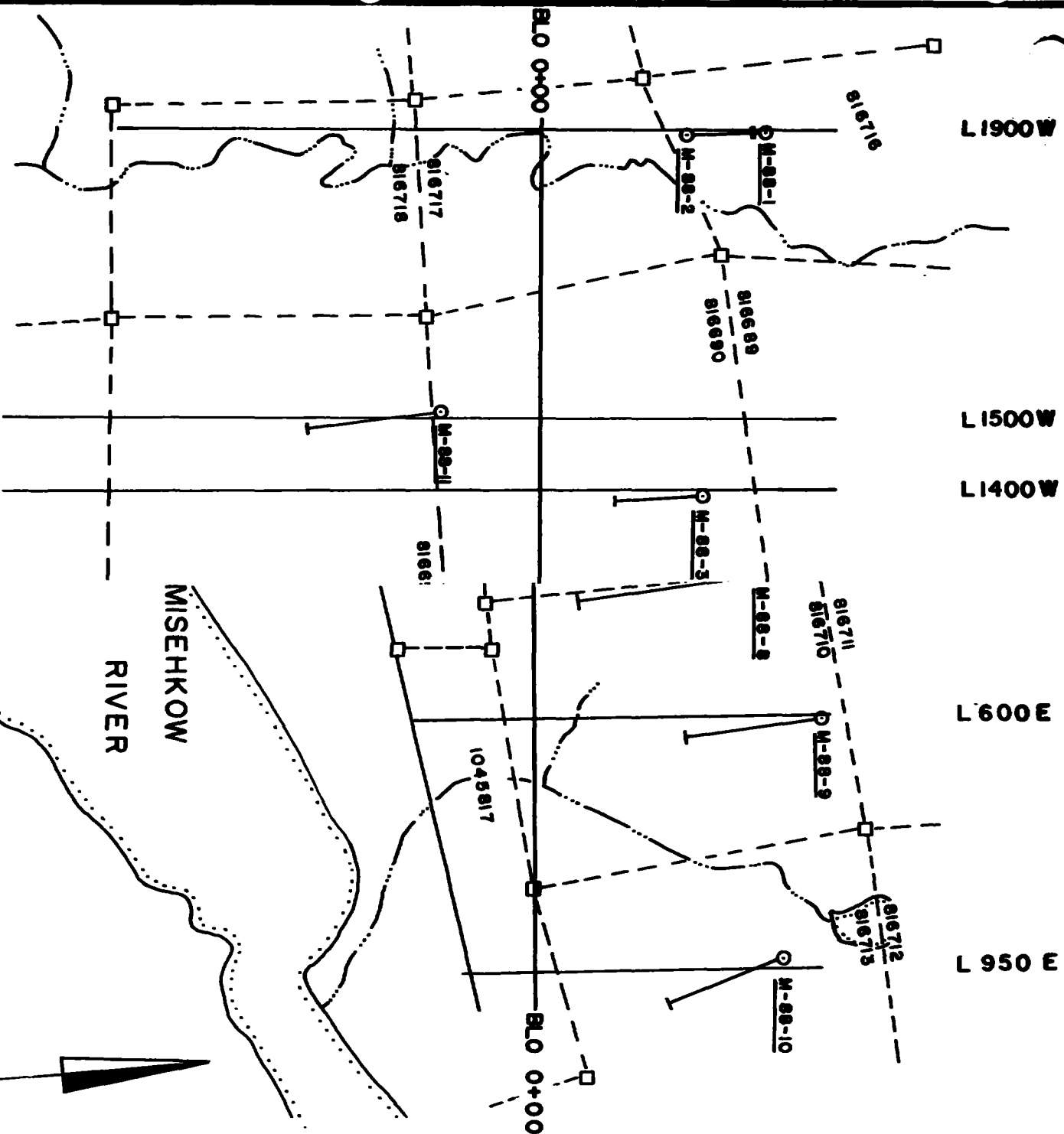


MARCH



MARCH





— CLAIM POST

○ DRILL COLLAR, HOLE NUMBER

~ SURFACE PROJECTION



MARCH