



42A07NW8464 63.6098 CODY

010

**PAMOREX MINERALS INC.
TIMMINS DIVISION
REGIONAL EXPLORATION
NIGHTHAWK LAKE
MINTEK PROPERTY
O.M.I.P. REPORT - 1990**

Submitted by:

**Malcolm Robb,
Senior Project Geologist,
Regional Exploration Dept.**

February, 1991



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010C

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(1)

COMMODITIES

Au, minor Cu and Zn.

STAGE

Grass roots.

DEPOSIT TYPE

Epigenetic gold deposits hosted in Archean rocks (highly altered mafic volcanics and sediments) and closely associated with a major deformation zone (Nighthawk Lake Break) splaying from the Destor-Porcupine (Figure 1).

LOCATION NTS:42 A/6 (48°29"N,81°02"W or 5370000mN,498500mE)

Central Cody Township north of Poplar Point on the west shore of Nighthawk Lake, 15 miles east of the City of Timmins, Ontario (Figure 1).

PROPERTY

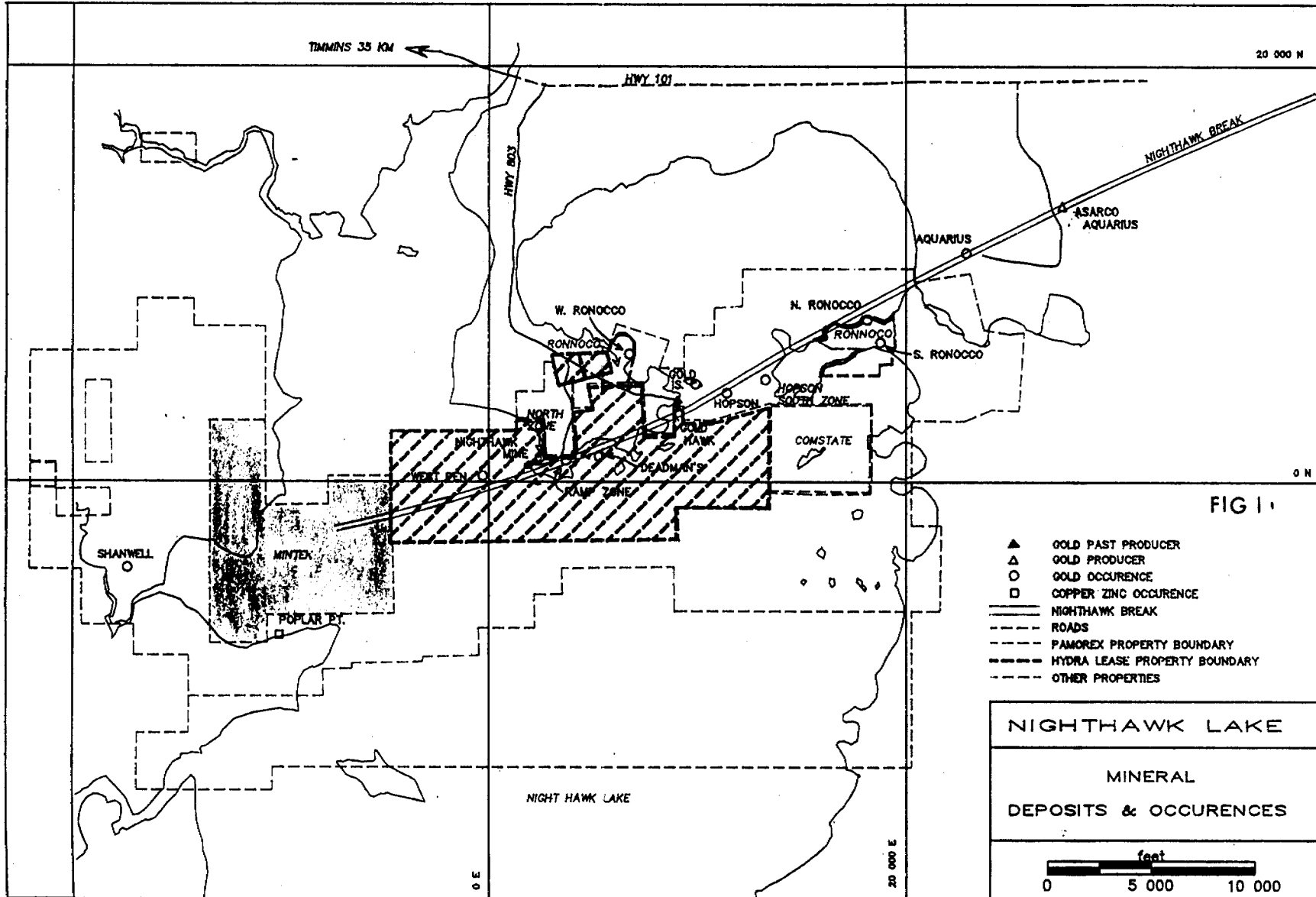
Consists of 34 contiguous, unpatented mining claims (P1025818-1025844, P1025847-1025852 and P1025867), totalling approximately 1,360 acres (Figure 2 and Table 1).

OWNERSHIP

On January 1, 1991, Pamorex Minerals Inc. earned a vested interest in the property as follows: 70% Pamorex Minerals Inc., 30% Mintek Resources Ltd., with Pamorex as the operator (subject to a series of option payments, and an N.S.R. royalty of 2% in favour of James Croxall and Matti Kangas).

MINERAL INVENTORY

None to date.



9
LOT

8
LOT

7
LOT

6
LOT

IV CONC.

NIGHT HAWK LAKE

III

II

48° 28'

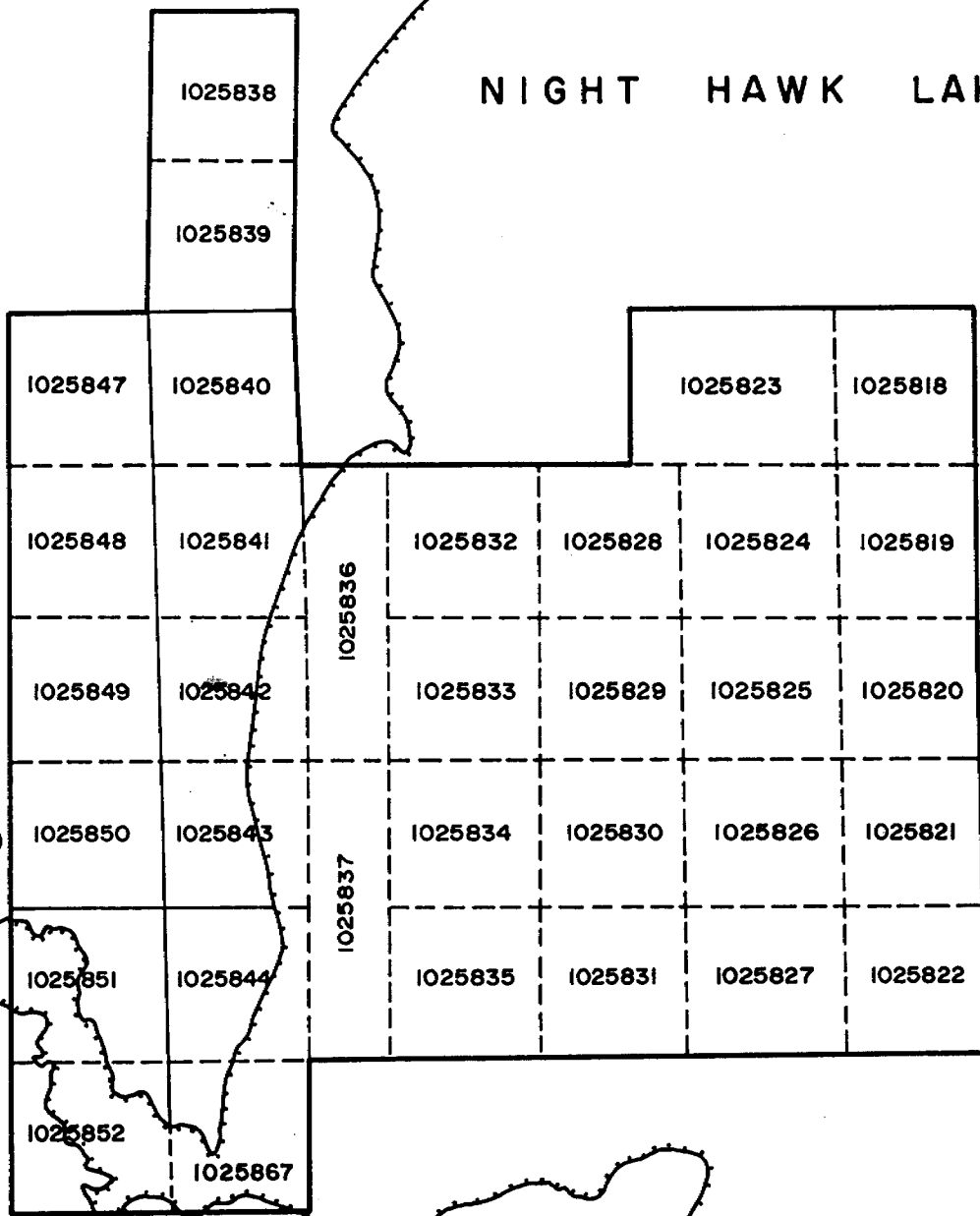


FIG 2

PAMOREX MINERALS INC.

TITLE :

MINTEK CLAIMS
CODY TWP.

SCALE

1: 20000

DATE

DEC. 1989

Fig. no.

TABLE 1

MINTEK PROPERTY
CLAIM STATUS

CLAIM NO.	TWP.	STATUS	RECORDED DATE	DAYS WORK COMPLETED	WORK REQUIRED	DUE DATE
1025818	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025819	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025820	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025821	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025822	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025823	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025824	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025825	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025826	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025827	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025828	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025829	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025830	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025831	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025832	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025833	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025834	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025835	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025836	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025837	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025838	CODY	STAKED	16/10/87	100	40 DAYS	16/10/91
1025839	CODY	STAKED	16/10/87	100	40 DAYS	16/10/91
1025840	CODY	STAKED	16/10/87	100	40 DAYS	16/10/91
1025841	CODY	STAKED	16/10/87	100	40 DAYS	16/10/91
1025842	CODY	STAKED	16/10/87	100	40 DAYS	16/10/91
1025843	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025844	CODY	STAKED	28/09/87	100	40 DAYS	28/09/91
1025847	CODY	STAKED	16/10/87	100	40 DAYS	16/10/91
1025848	CODY	STAKED	16/10/87	100	40 DAYS	16/10/91
1025849	CODY	STAKED	16/10/87	100	40 DAYS	16/10/91
1025850	CODY	STAKED	16/10/87	100	40 DAYS	16/10/91
1025851	CODY	STAKED	16/10/87	100	40 DAYS	16/10/91
1025852	CODY	STAKED	16/10/87	100	40 DAYS	16/10/91
1025867	CODY	STAKED	28/09/87	141	59 DAYS	28/09/92

EXPENDITURES

1989	\$ 36,243.22
1990	\$144,792.13

Appendix 4 contains a table summarising expenditures by Pamorex Minerals Inc. on the property in 1990.

INTRODUCTION

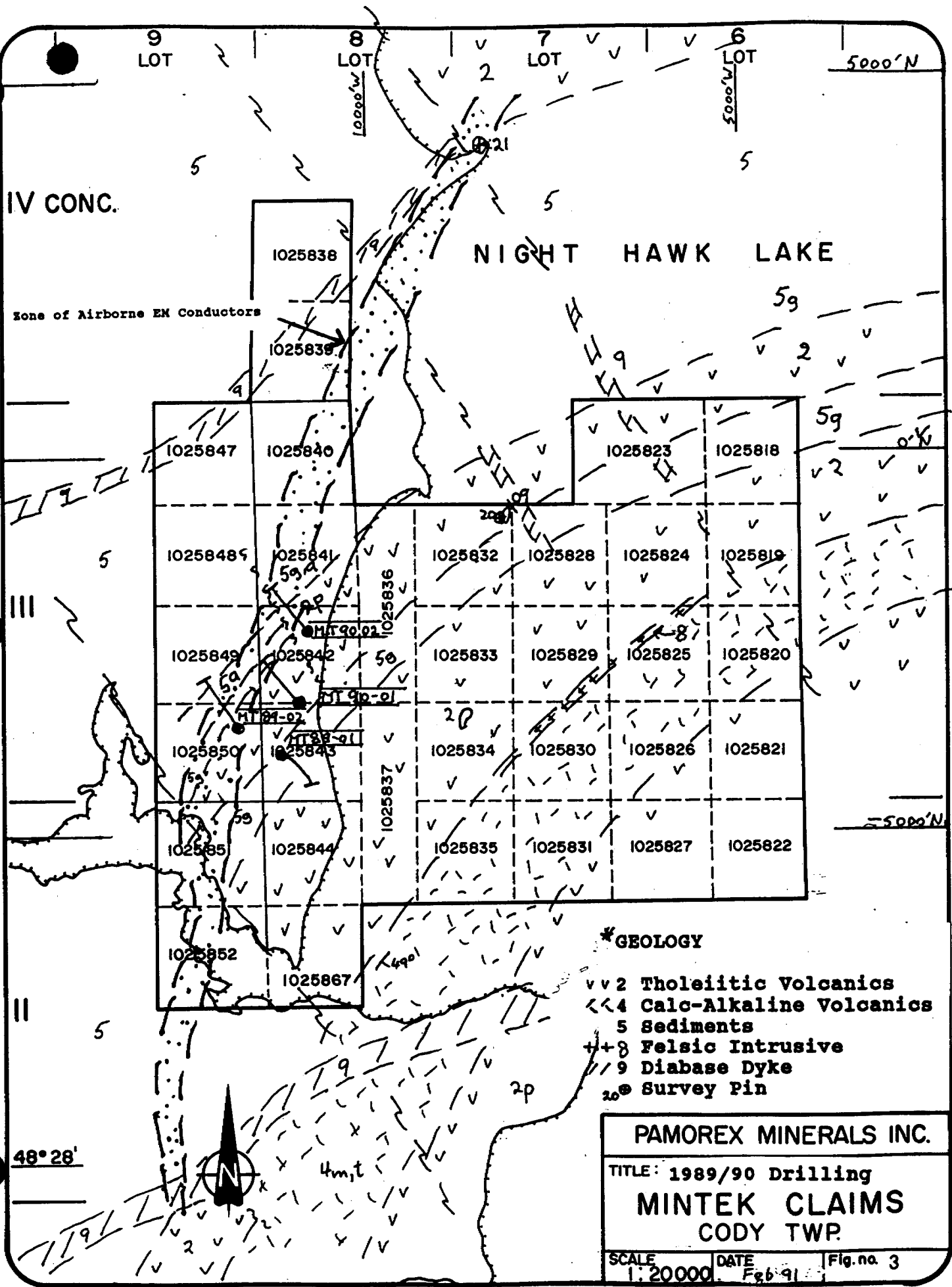
The property was optioned to Mintek Resources by the vendors (Croxall-Kangas) and then later joint ventured from Mintek to Pamorex Minerals on July 31, 1989.

WORK DONE**From Assessment Files**

During 1945 and 1946 Cocallen Porcupine Gold Mines Ltd. performed a ground magnetic survey and drilled three holes totalling 1,942 feet on the west shore of Nighthawk Lake. There is no record of work for the period between 1947 and 1964. Texasgulf completed a Vertical Loop EM survey near the mouth of Goose Creek and drilled four holes. Only one of the four was done on the Mintek claims. This hole, C22-1 located on P1025850, was drilled due west and totalled 447 feet. In February of 1966, Inco drilled one 464 foot west-trending hole on what is now claim P1025841. During September of 1981 Amax Minerals flew an airborne EM and Mag survey over the western-most 12 claims. Comstate (Placer Development) completed a 30 hole overburden drilling program totalling 2,020 feet over the central portion of the claims. Follow-up Mag, VLF and HLEM surveys were done during the winter of 1982. Canamax/Noranda J.V. drilled two diamond drill holes totalling 1060 feet during January of 1981: NH-84-4 on claim P1025840 and NH-84-3 on claim P1025851.

By Pamorex

Aerodat Airborne Geophysics flew Mag, VLF and EM surveys over all of Pamorex's ground on Nighthawk Lake, including the Mintek property. During December 1989, two holes totalling 2,411 feet (MT89-01 and MT89-02) were completed on the west shore. A further two holes totalling 2,332 feet (MT90-01 and MT90-02) were drilled during October and November of 1990.



- *GEOLOGY**
- v v 2 Tholeiitic Volcanics
 - << 4 Calc-Alkaline Volcanics
 - 5 Sediments
 - + + 8 Felsic Intrusive
 - 9 Diabase Dyke
 - 20 Survey Pin

PAMOREX MINERALS INC.

TITLE: 1989/90 Drilling
MINTEK CLAIMS
 CODY TWP.

SCALE 1:20000 DATE Feb 91 Fig. no 3

* See appendix for details of geological legend

RESULTS

No significant mineralization was reported in the drilling performed prior to Pamorex optioning the ground.

The two holes completed by Pamorex in 1990 were designed to complete stratigraphic drilling and testing of the zone of north-south trending EM conductors delineated by the airborne survey begun in 1989 (Figure 3). The drilling defined a NE-trending package of tholeiitic volcanics (see Figure 6, a Jensen Cation plot) plus interbedded greywacke and argillite dipping 50-70° SE (Figures 4 & 5). Although traces of sphalerite and chalcopyrite were present in three of the holes (MT89-01, MT90-01 and MT90-02), no significant base metal values were intersected. Gold values were low in all of the holes (highest results - 45 ppb from a narrow tuffaceous volcanic unit in MT90-02, and 274 ppb from greywacke in MT89-02). A wide zone of shearing and brecciation was intersected in MT90-02 from 700.5-814.3 feet. Narrow intersections containing up to 10% pyrite are present within this zone but no significant results were returned from any of the samples taken.

Results of the drilling are summarised on Figure 3 (a map with geology interpreted from drilling projected up-dip) plus Figures 4 & 5 (sections showing sampled locations, interpreted geology and the most significant results). Appendix 1 contains summary and detailed drill logs for each of the holes completed plus compilations of the wholerock analyses. Appendix 2 contains a copy of the regional alpha-numeric geological legend for the Timmins-Kirkland Lake area. Appendix 3 contains the assay certificates for all the analytical work completed on the 82 samples taken (35 wholerock, 36 Au only, and 11 Au and base metals).

PROPOSED WORK 1991

Because of the insignificant results obtained in the drilling completed in 1989 and 1990, no follow-up work is recommended. The four holes completed tested the best land accessible target (the intersection of the sediment/tholeiitic volcanic contact with the zone of airborne conductors) with negative results. The contact between the mafic and felsic volcanics underneath Nighthawk Lake indicated on the geology map (Figure 3) remains to be tested by drilling. Because of the proximity of the river entering the lake, this area is unsafe to access for an ice drilling program. Should a program of barge drilling be approved for the Nighthawk Lake area in 1991, this target may be one of those tested depending on the budget levels authorized (currently under review).

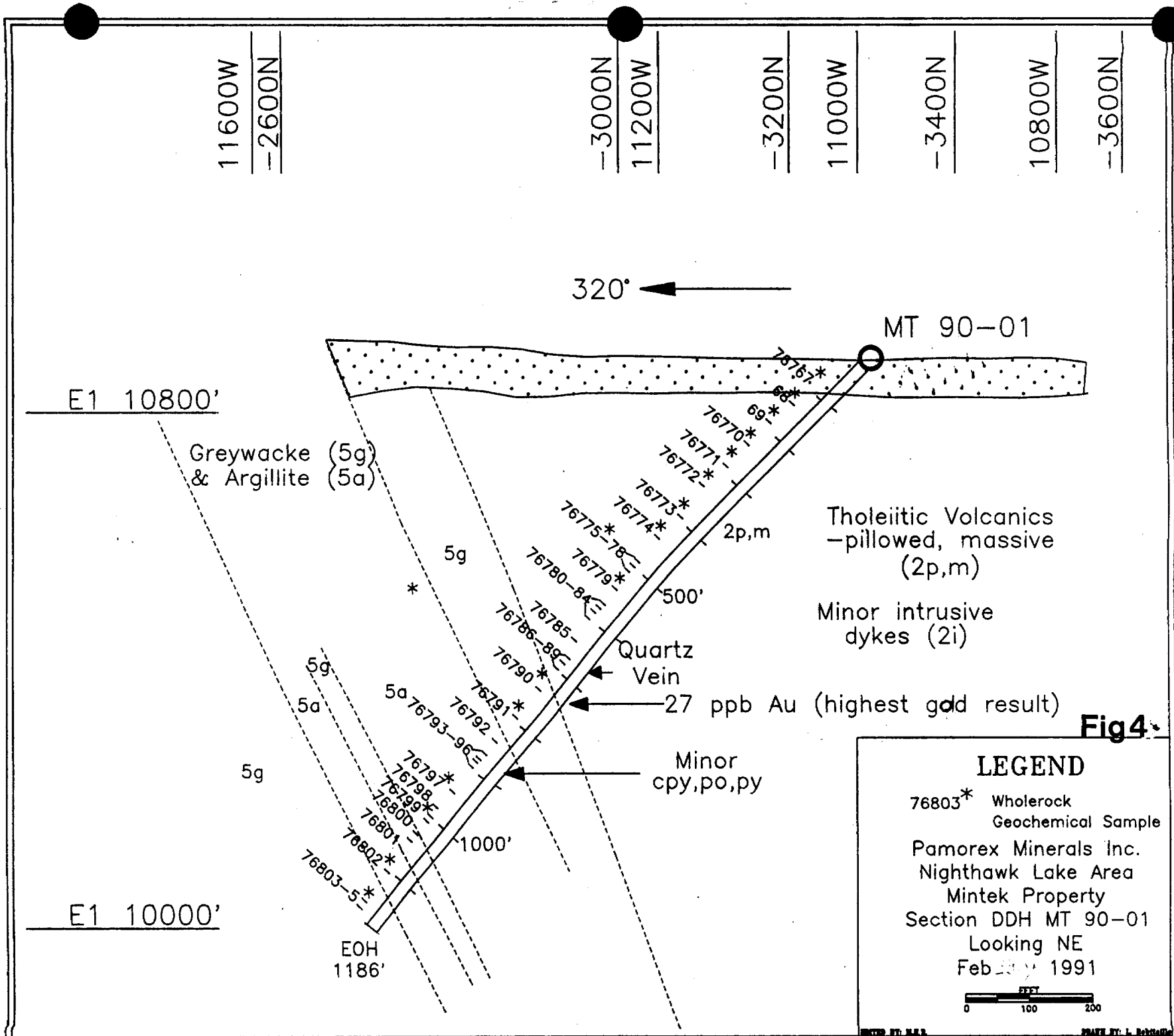


Fig 4

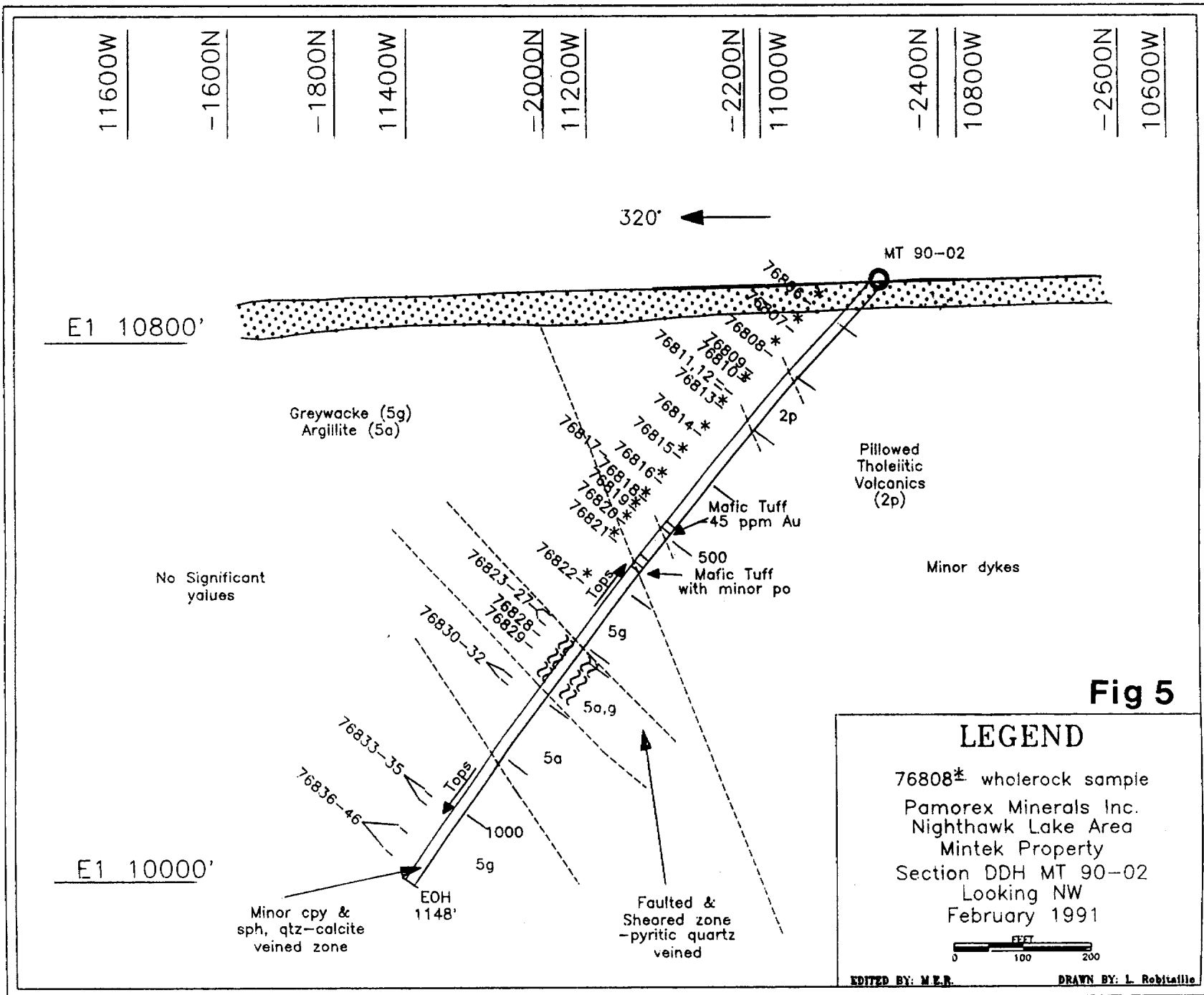
LEGEND

76803* Wholerock
Geochemical Sample

Pamorex Minerals Inc.
Nighthawk Lake Area
Mintek Property
Section DDH MT 90-01
Looking NE
February 1991

0 100 200

DATE BY: L. Roberts



100 • $Fe_2O_3 + TiO_2$

Fe + Ti

JENSEN CATION PLOT Croxall/Mintek Nighthawk Lake

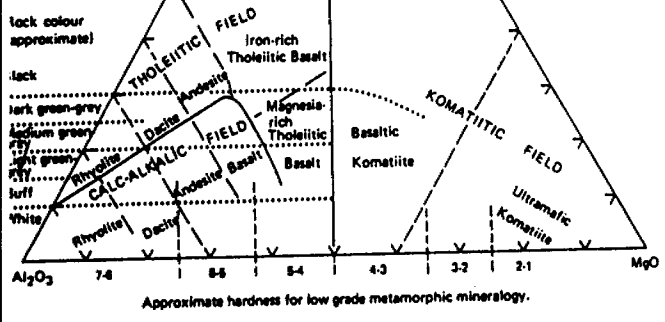


Figure 7—Jensen (1978) cation plot for subalkalic volcanic rocks, including hematite.

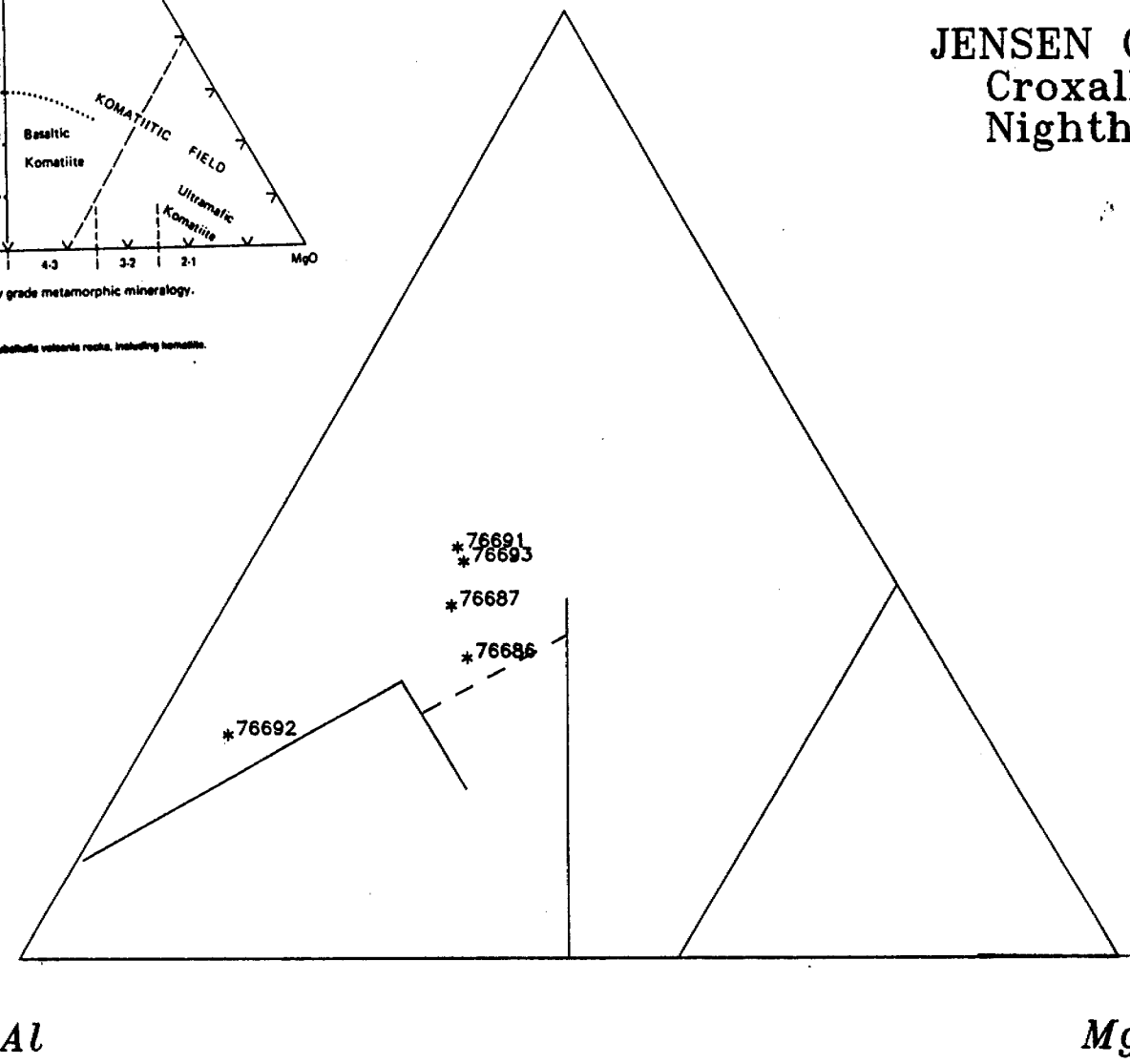


FIG 6

APPENDIX 1

Drill Logs

MT90-01

MT90-02

SUMMARY LOG

Hole Number: MT 90-01
Date Drilled: Sept 27th-Oct 1st, 1990
Contractor: Norex Drilling Ltd.
Property: Mintek-Croxall
Township: Cody
Claim No.: 1025842
Coordinates: -3300.04N, -10997.88E, EL 10902.00
-45 , Az 320
Length: 1186'
Size: BQ
Casing: 80'
Surveys: Collar and Sperry Sun "single shot"
at 266', 566', 866', and 1166'.
Purpose: To test stratigraphy and airborne
conductors.

Results

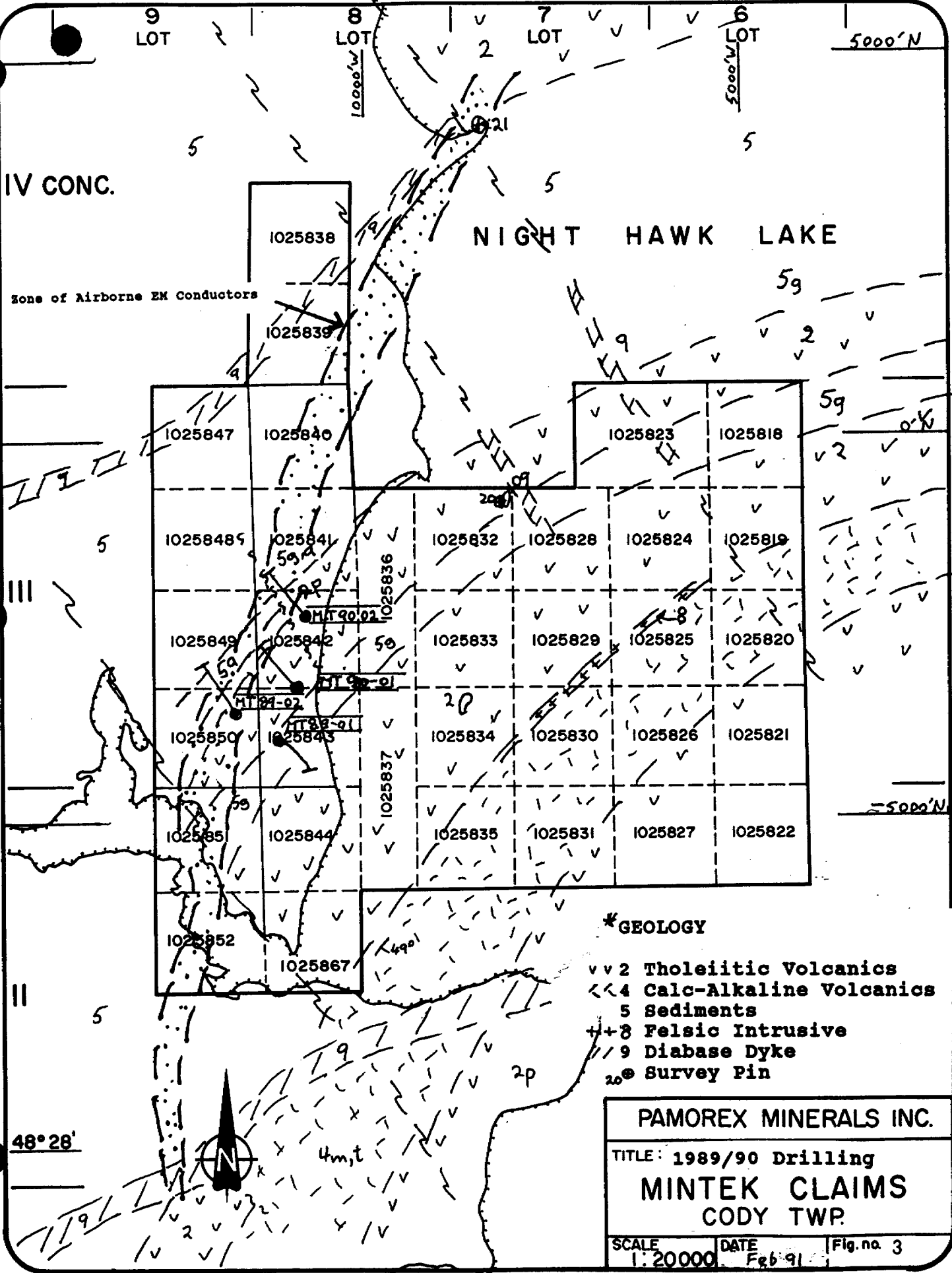
Geology: Intersected pillowed mafic volcanics (tholeiites) and a sequence of interbedded greywacke and argillites. The pillowed volcanics have a weakly developed ankeritic alteration and are intruded by numerous narrow (0.5'-9') intrusive mafic dykes and one barren quartz vein from 680.0'-683.0'. The sediments are dominantly argillites, in part graphitic and include a major pyritic (1-2%), fault zone from 883.0'-897.0'. Alteration within the sediments consists mainly of calcite with minor sericitic alteration at 1156.0'-1167.0'.
Sampling: A total of 39.40' of core was sawed (3.3%) and 18 samples analyzed for Gold (geochemical analysis) at Swastika Laboratories, Swastika, Ontario. Wholerock geochemical analysis was completed on 23 samples at Metriclab, Ste-Marthe Sur Le Lac, PQ. No significant results were returned. The highest gold value was 27 ppb and the highest base metal values were 145 ppm Cu, 406 ppm Zn and 86 ppm Ni (See attached table of details).

Core/Rejects: Drill core is stored at the Hollinger Property core logging facility, Timmins. Sample rejects are also stored there for a minimum period of six months depending on availability of space and project priorities.

Logged By

D. Clarke

<u>FOOTAGE</u>	<u>LITHOLOGY</u>
0.0 - 80.0	Casing
80.0 - 733.6	Mafic Volcanic-Pillowed. Intrusive mafic dykes at: 158.4-159.8, 352.7-354.4, 508.8-511.6, 563.1-564.0, 572.9-573.5, 573.9-582.1, 585.0-590.2, 593.0-594.1, 595.5-596.0, 602.0-603.0. 680.0 - 683.0 Massive Quartz Vein Wholerock geochemical samples at 101', 151', 201', 251', 301', 346', 401', 451', 496', 551', 600', 651', 706'.
733.6 - 841.0	Greywacke - Graded bedding indicates tops uphole. Wholerock Geochemical samples at 751', 806'.
841.0 - 1042.2	Argillite, minor greywacke, 60-70% black graphitic argillite 871.0 - 873.0 Minor Cpy, Po, Py 883.0 - 897.0 Fault Zone, blocky. Wholerock geochemical samples at 851', 906', 951', 1001'.
1042.2 - 1074.0	Greywacke, massive, gritty texture.
1074.0 - 1139.0	Argillite, graphitic. Wholerock geochemical sample at 1101'.
1139.0 - 1186.0	Greywacke, massive. 1156.0 - 1167.1 Sericitic alteration with 0.5% pyrite Three wholerock samples from 1162.0-1167.1'
1186.0	EOH



***GEOLOGY**

- v v 2 Tholeiitic Volcanics
- << 4 Calc-Alkaline Volcanics
- 5 Sediments
- + + 8 Felsic Intrusive
- // 9 Diabase Dyke
- 20 Survey Pin

PAMOREX MINERALS INC.

TITLE: 1989/90 Drilling
MINTEK CLAIMS
 CODY TWP.

SCALE 1:20000 DATE Feb 91 Fig. no 3

* See appendix for details of geological legend

11600W

-2600N

-3000N

11200W

-3200N

11000W

-3400N

10800W

-3600N

320° ←

MT 90-01

E1 10800'

Greywacke (5g)
& Argillite (5a)

Tholeiitic Volcanics
-pillowed, massive
(2p,m)

Minor intrusive
dykes (2i)

Quartz
Vein

27 ppb Au (highest gold result)

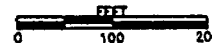
Minor
cpy,po,py

LEGEND

76803* Wholerock
Geochemical Sample

Pamorex Minerals Inc.
Nighthawk Lake Area
Mintek Property
Section DDH MT 90-01

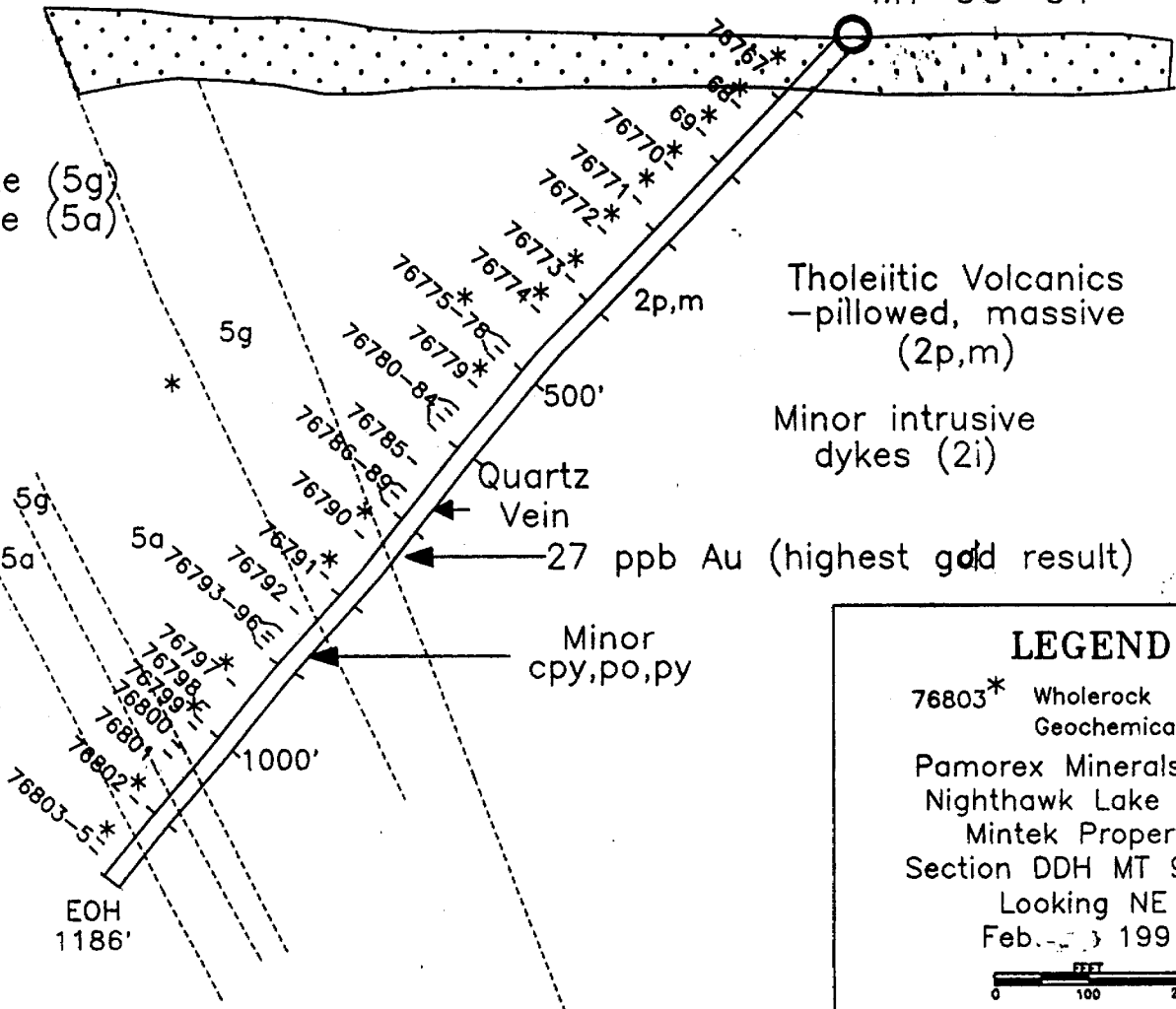
Looking NE
Feb. 1991



E1 10800'

E1 10000'

EOH
1186'



SUMMARY LOG

Hole Number: MT 90-02
Date Drilled Oct 1st - 9th 1990
Contractor Norex Drilling ltd.
Property Mintek-Croxall
Township Cody
Claim No. 1025841,1025842
Coordinates -2333.17 N, -10882.93 E, El 10903.0
-45 ,Az 315
Length 1146'
Size BQ
Casing 76'
Surveys Collar and Sperry Sun "single shots"
at 600' and 1136'.
Purpose To test stratigraphy and airborne
conductors.

Results

Geology: Intersected moderately bleached pillowed mafic volcanics (Fe Tholeiites), minor mafic tuff and interbedded sediments (greywacke and argillite). The volcanics are intruded by several small intrusive dykes (1-3'). Sediments contain two faulted and sheared zones, with pyrite (up to 10%, generally 1-2%) and graphitic argillite associated. The sediments show variable amounts of sericitic, ankeritic and graphitic alteration. A section of greywacke from 1090.2' - 1121.6' contained trace Cpy and reddish Sph.

Sampling: A total of 87.1' (7.6%) of the core was sawed and 29 samples were sent to Swastika Laboratories in Kirkland Lake for geochemical Au determinations. In addition 12 samples were sent to Metriclab, Ste-Marthe Sur Le Lac, PQ, for wholerock analysis. No significant Au assays were returned (highest 45 ppb) and the highest base metal values returned were 516 ppm Zn and 144 ppm Cu (see attached table for details)

Core/Rejects: Drill core is stored at Hollinger Property, Timmins. Pulps, rejects also stored here for a minimum of six months depending on space availability and project priorities.

Logged By

D. Clark

SUMMARY LOG

Hole Number: MT 90-02
Date Drilled Oct 1st - 9th 1990
Contractor Norex Drilling ltd.
Property Mintek-Croxall
Township Cody
Claim No. 1025841,1025842
Coordinates -2333.17 N, -10882.93 E, El 10903.0
-45 ,Az 315
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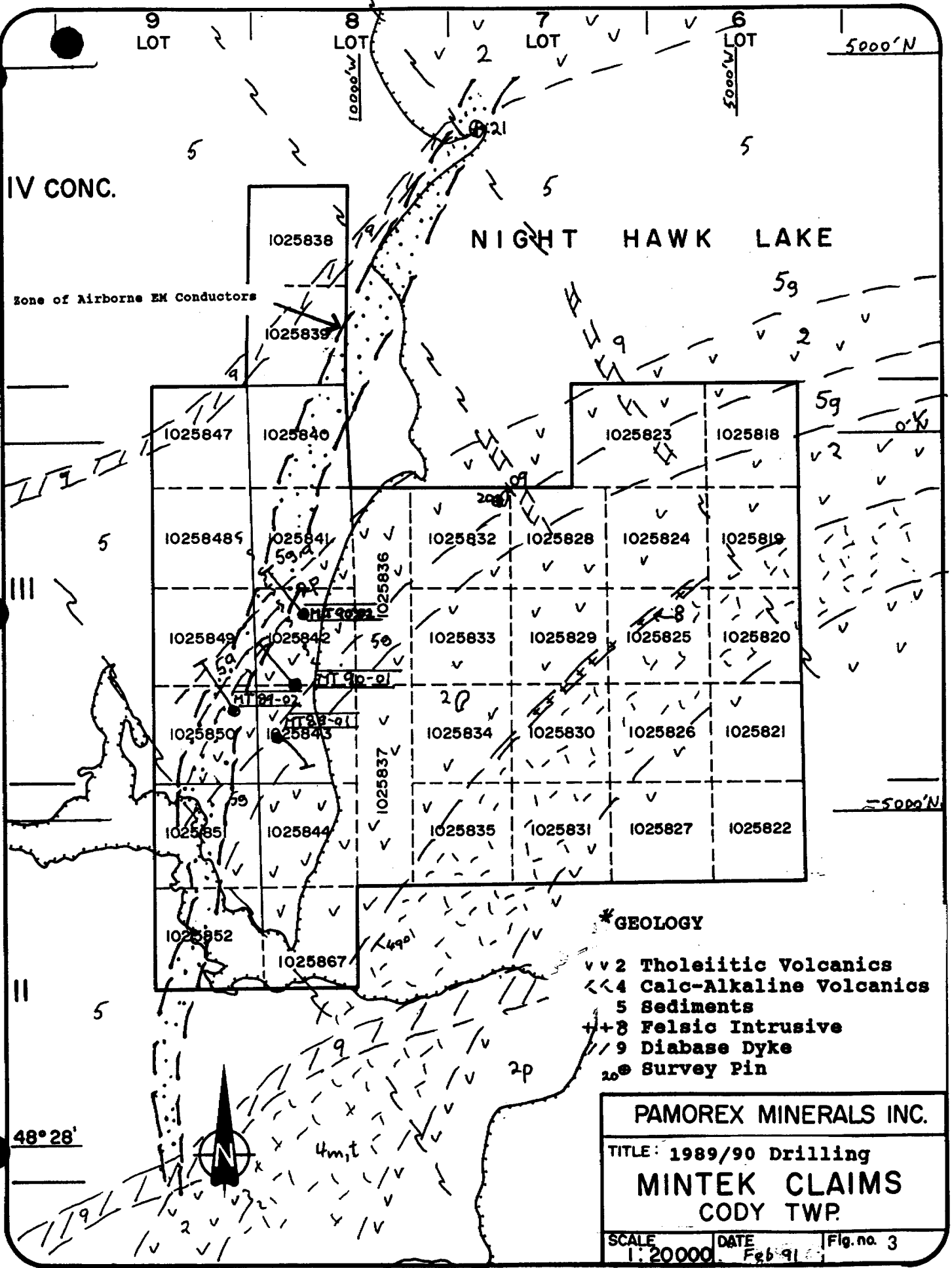
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Logged By

D. Clark

<u>FOOTAGE</u>	<u>LITHOLOGY</u>
0.0 - 65.0	Casing
65.0 - 560.3	Pillowed Mafic Volcanics (Fe Tholeiite). Moderately bleached by ankeritic alteration, minor leucoxene. 128.0 - 140.0 Massive mafic volcanic Mafic Intrusive dykes at 140.0-141.0, 159.1-160.1, 234.2-235.8, 266.5-266.8, 271.7-274.9, 385.5-386.4, 424.2-424.8 476.0 - 488.7 Mafic Tuff 539.1 - 549.8 Mafic Tuff, minor Po. Wholerock geochemical samples at 101', 151', 201', 251', 306', 351', 401', 451', 486', 536'.
560.3 - 700.5	Greywacke, minor interbedded graphitic argillite. Graded bedding indicates tops uphole. Wholerock geochemical sample at 631'.
700.5 - 726.6	Faulted/sheared zone - graphitic/sericitic alteration up to 5-10% graphite, 1-2% Py with narrow zones of up to 10%. Some sections of unconsolidated fault gouge.
726.6 - 737.0	Greywacke, silicified, minor sericite and graphitic argillite, 1-5% disseminated Py.
737.0 - 766.0	Argillite, sheared, 1-2% pyrite, graphitic
766.0 - 781.0	Fault Zone - argillaceous, as above (700.5-726.6) lost core. Up to 2% pyrite.
781.0 - 911.0	Argillite, thinly laminated, graphitic, less pyrite than above. 799.0 - 814.3 Brecciated Zone, 1-40% qtz veins, minor Py.
911.0 - 1146.0	Greywacke, 5-10% black argillite. Graded bedding indicate tops down hole. 1019.6 - 1028.9 Sericitic alteration, 1-2% Py. 1090.2 - 1121.6 Mineralized and altered with Tr Py, Cpy and reddish Sph in narrow quartz-calcite veins (0.1"-0.25"). Overall about 1-3% veins. Lower contact of veined zone is heavily brecciated.
1146.0	EOH



IV CONC.

Zone of Airborne EM Conductors

NIGHT HAWK LAKE

***GEOLOGY**

- v v 2 Tholeiitic Volcanics
- << 4 Calc-Alkaline Volcanics
- 5 Sediments
- + + 8 Felsic Intrusive
- // 9 Diabase Dyke
- 20 ● Survey Pin

PAMOREX MINERALS INC.		
TITLE: 1989/90 Drilling		
MINTEK CLAIMS		
CODY TWP.		
SCALE	DATE	Fig. no. 3
1:20000	Feb 91	

* See appendix for details of geological legend

11600W

-1600N

-1800N

11400W

-2000N

11200W

-2200N

11000W

-2400N

10800W

-2500N

10600W

320' ←

MT 90-02

E1 10800'

Greywacke (5g)
Argillite (5a)

Pillowed
Tholeiitic
Volcanics
(2p)

No Significant
values

Mafic Tuff
45 ppm Au

Minor dykes

500
Mafic Tuff
with minor po

76823-27

76828-
76829-

76830-32

76833-35

76836-46

EOH
1148'

E1 10000'

Minor cpy &
sph, qtz-calcite
veined zone

Faulted &
Sheared zone
-pyritic quartz
veined

LEGEND

76808* wholerock sample

Pamorex Minerals Inc.
Nighthawk Lake Area
Mintek Property
Section DDH MT 90-02
Looking NW
February 1991



EDITED BY: M.E.R.

DRAWN BY: L. Robitaille

APPENDIX 2

Alpha-Numeric Geology Legend

Timmins - Kirkland Lake Area

ALPHA-NUMERIC GEOLOGY LEGEND

FOR

GEOLOGICAL COMPILATIONS

TIMMINS - KIRKLAND LAKE

MAY 1989

P. COAD

LEGEND

1 KOMATIITIC VOLCANICS

1	Unsubdivided
1s	Serpentinized, massive, polysutured, peridotitic komatiite
1ox	Olivine-spinifex textured peridotitic komatiitic flows
1px	Pyroxene-spinifex textured basaltic komatiitic flows
1mb	Massive basaltic komatiite
1m	Massive
1p	Pillowed
1c	Carbonated peridotitic komatiite
1t	Talcose
1b	Basaltic komatiite
1cb	Carbonated basaltic komatiite

2 THOLEIITIC VOLCANICS

2	Unsubdivided
2m	Massive
2p	Pillowed
2a	Amygdaloidal
2ap1	Amygdaloidal pillow lava
2v	Variolitic
2t	Tuff, lapilli-tuff
2b	Breccia
2c	Carbonated
2pb	Pillow breccia
2h	Hyaloclastite
2F	Dominantly Fe-tholeiite
2M	Dominantly Mg-tholeiite
2ag	Agglomerate
2am	Amphibolitized
2scf	Spherulitic, chicken-feed

F Denotes High Fe-Tholeiite
M Denotes High Mg-Tholeiite

3 **CALC-ALKALIC MAFIC VOLCANICS**

3 Unsubdivided
3m Massive
3p Pillowed
3a Amygdaloidal
3t Tuff, lapiilli-tuff
3b Breccia
3c Carbonated
3am Amphibolitized

4 **CALC-ALKALIC FELSIC VOLCANICS**

4 Unsubdivided
4m Massive
4t Tuff, lapiilli-tuff
4s Schistose
4b Breccia
4r Rusty-weathering
4c Carbonated
4p Porphyritic, qp (quartz-eye porphyritic),
pp (plagioclase-porphyritic)
4T Dominantly tholeiitic composition

5 **SEDIMENTS**

5 Unsubdivided
5a Argillite
5c Conglomerate
5g Greywacke
5sl Slate
5p Porphyritic, qp (quartz-eye porphyritic),
pp (plagioclase-porphyritic)
5d Debris flow
5q Quartzite
5qw Quartz wacke
5gr Graphite
5ch Chert
5ag Agglomerate
5t Tuff
5s Siltstone

K Denotes Keewatin
T Denotes Timiskaming

6 ULTRAMAFIC INTRUSIVE ROCKS

6	Unsubdivided
6s	Serpentinized diorite-peridotite
6ph	Pyroxene-hornblende
6c	Carbonated
6tm	Talc-magnesite

7 MAFIC INTRUSIVE ROCKS

7	Unsubdivided
7g	Gabbro
7qg	Quartz gabbro
7pg	Pegmatoidal gabbro
7l	Lamprophyre
7ib	Intrusive breccia

8 FELSIC INTRUSIVE ROCKS

8	Unsubdivided
8qp	Quartz porphyry
8fp	Feldspar porphyry
8qfp	Quartz feldspar porphyry
8f	Felsite, p (porphyritic), qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
8hbt	Hornblende-biotite trendjemite
8pm	Porphyritic monzanite
8pg	Porphyritic granodiorite
8lg	Leucocratic granodiorite
8hd	Hornblende diorite
8qd	Quartz diorite
8d	Diorite
8p	Porphyry
8a	Aplite
8s	Syenite
8g	Granite <u>or</u> quartz-rich syenite
8t	Trachyte

(4)

9 MATACHEWAN DIABASE

10 GOWGANDA FORMATION

10a	Arkose
10w	Wacke
10arg	Argillite
10c	Conglomerate

11 QUARTZ DIABASE

12 OLIVINE DIABASE

IRON FORMATION

IFo	Oxide
IFs	Sulphide
IFc	Carbonate

SULPHIDES

MS	Massive Sulphides
SMS	Semi-Massive Sulphides

OXIDES

Mt	Magnetite (80-100%)
----	---------------------

ALTERATION

These abbreviations are used after a lithology, if desired.

3m,s	Would denote a massive calc-alkalic mafic volcanic which is sericitized
chl	Chloritic
s	Sericitic
si	Silicified
ank	Ankerite
cc	Calcite
c	Carbon
cb	Carbonate
h	Hematite
a	Albitized
fu	Fuchsitic
mt	Magnetite
sh	Sheared
f	Fragments
tcs	Talc chlorite schist
gr	Graphitic
sch	Schist
gt	Garnet

Revised 21 March 1990

APPENDIX 3

Assay Certificates/Wholerock Analysis

1990 Diamond Drilling

All analyses by Metriclab, Quebec - XRF, FA & AA Finish

(Au re-assayed if over 1000 ppb)



Montek

PAMOREX MINERALS INC.
P.O. Box 2010
Timmins / Ont.
P4N 7X7

RÉSULTATS # 90-11-128 COMMANDE # 29-73676 PROJET # 0617

DATE: 90/11/2

PAGE: 1

Att.: Mr. D. Clark

RÉSULTATS D'ANALYSES/ASSAY REPORT

ECHANTILLONS SAMPLES	SiO2 %	TiO2 %	Al2O3 %	FeO %	MgO %	MnO %	K2O %	CaO %	Na2O %	LOI %	
76767	44.0	0.82	13.12	11.24	7.19	0.23	0.07	12.96	1.19	8.83	✓
76768	47.5	0.78	13.73	10.75	7.25	0.20	0.22	11.09	1.59	6.57	✓
76769	47.9	0.89	12.58	9.63	5.26	0.21	0.07	12.89	1.91	8.33	✓
76770	48.4	0.91	13.51	9.97	7.00	0.17	0.73	9.73	2.61	6.74	✓
76771	51.4	0.89	12.63	9.35	6.33	0.17	0.20	10.54	2.07	5.96	✓
76772	49.9	0.98	12.65	9.98	6.37	0.21	0.23	9.36	2.01	7.75	✓
76773	52.1	1.06	14.04	9.85	6.80	0.19	0.57	9.20	2.48	3.28	✓
76774	49.2	0.93	13.99	10.12	6.54	0.22	0.09	10.35	2.31	5.81	✓
76775	52.1	0.89	13.22	9.10	5.68	0.17	0.38	9.97	2.09	6.10	✓
76779	50.6	1.03	14.02	9.21	6.81	0.19	0.35	9.61	3.46	4.25	
76784	51.7	0.96	13.50	8.68	5.87	0.17	0.68	9.83	2.32	5.99	
76785	50.6	0.96	14.03	9.66	7.14	0.17	0.34	10.33	2.32	4.05	
76789	50.2	0.84	13.51	9.19	6.42	0.16	0.09	11.85	1.99	5.17	
76790	53.6	1.21	13.93	7.86	6.71	0.12	0.35	7.62	3.59	4.69	
76791	50.2	1.03	15.04	7.80	6.31	0.15	0.98	9.91	2.43	5.84	
76792	54.0	1.53	17.11	7.76	5.19	0.10	1.44	5.72	3.47	3.20	
76796	60.0	1.12	15.88	6.00	4.05	0.09	1.88	3.58	2.97	4.20	
76797	55.0	1.17	14.28	6.59	4.86	0.08	1.35	6.41	2.09	7.85	
76799	63.2	0.56	15.74	3.74	1.94	0.05	2.23	3.82	3.49	4.64	
76802	64.3	0.59	14.94	3.76	2.10	0.07	1.56	3.98	4.03	4.30	
76803	65.5	0.47	15.26	2.61	2.23	0.04	2.88	3.03	3.04	4.42	
76804	64.5	0.52	16.68	3.04	2.42	0.03	2.38	2.18	4.36	3.46	
76805	70.6	0.43	12.96	2.69	2.12	0.04	2.38	2.49	2.57	3.51	
76806	50.0	0.95	13.33	9.48	6.01	0.19	0.15	10.30	2.87	6.29	
76807	50.7	1.01	13.63	10.38	6.83	0.19	0.29	9.11	2.68	4.87	
76808	52.2	0.98	13.57	9.00	6.31	0.18	0.42	9.59	2.36	5.14	
76810	51.1	0.83	12.49	8.43	6.14	0.20	0.52	10.98	2.24	6.66	
76813	51.0	1.09	14.58	8.50	5.46	0.15	0.40	10.24	2.02	6.06	
76814	49.4	0.97	13.14	10.06	6.86	0.19	0.17	10.64	2.37	5.74	
76815	48.0	1.09	14.37	11.65	6.95	0.22	0.16	8.56	2.48	6.29	

J. Glass



PAMOREX MINERALS INC.
P.O. Box 2010
Timmins / Ont.
P4N 7X7

RÉSULTATS # 90-11-128 COMMANDE # 29-73676 PROJET # 0617

DATE: 90/11/23

PAGE: 2

Att.: Mr. D. Clark

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	Cu	Zn	Ni	Ag	Au	Total					
	ppm	ppm	ppm	ppm	ppb	%					
76767	145	63	42	0.9	5	99.65					
76768	95	53	79	0.7	4	99.68					
76769	97	51	47	0.8	5	99.67					
76770	105	49	51	0.7	4	99.77					
76771	102	49	52	0.6	4	99.54					
76772	103	52	50	0.8	6	99.44					
76773	113	45	41	0.4	4	99.57					
76774	137	64	56	0.8	6	99.56					
76775	107	49	56	0.7	4	99.70					
76779	92	41	44	0.6	4	99.53					
76784	65	48	56	0.7	5	99.70					
76785	103	47	44	0.5	4	99.60					
76789	136	52	49	0.6	5	99.42					
76790	78	73	57	0.5	27	99.68					
76791	70	91	60	0.6	4	99.69					
76792	70	130	86	0.6	5	99.52					
76796	100	406	60	0.6	5	99.77					
76797	54	100	68	0.8	4	99.68					
76799	34	91	79	0.4	5	99.41					
76802	42	84	52	0.5	5	99.63					
76803	26	350	48	0.4	4	99.48					
76804	32	159	56	0.5	4	99.57					
76805	32	50	57	0.5	5	99.79					
76806	68	61	50	0.7	4	99.57					
76807	87	63	49	0.6	6	99.69					
76808	108	50	40	0.5	5	99.75					
76810	79	50	42	0.5	4	99.59					
76813	117	56	45	0.6	6	99.50					
76814	106	54	35	0.6	5	99.54					
76815	90	68	51	0.9	5	99.77					

H. Blas



PAMOREX MINERALS INC.
P.O. Box 2010
Timmins / Ont.
P4N 7X7

RÉSULTATS # 90-11-104 COMMANDE #29-73676

PROJET # 0617

DATE: 90/11/20

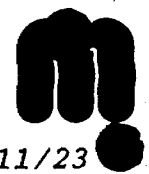
PAGE: 1

Att.: Mr. Doug Clark

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	Cu	Zn	Ag	Au	Au	Au	Au-1	Au-2	Au-3		
	ppm	ppm	ppm	ppb	g/tm	oz/t	ppb	ppb	ppb		
76793	158	432		8	45 6 4 4 / / / / /		43	46			
76819	73	109		45							
76821	69	135		6							
76836	27	43		4							
76837	19	90		4							
76838	88	516		6	45 4 5 5 / / / / /						
76839	11	80		4							
76840	12	96		4							
76841	103	187		5							
76842	28	109		5							
76843	24	76		4	45 4 5 5 / / / / /						
76844	24	75		4							
76845	19	36		4							
76846	21	18		5							

H. Blais



PAMOREX MINERALS INC.
P.O. Box 2010
Timmins / Ont.
P4N 7X7

RÉSULTATS # 90-11-128 COMMANDE # 29-73676

PROJET #0617

DATE: 90/11/23

PAGE: 3

Att.: Mr. D. Clark

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	SiO2 %	TiO2 %	Al2O3 %	FeO %	MgO %	MnO %	K2O %	CaO %	Na2O %	LOI %	
76816	52.6	1.01	12.68	9.40	6.37	0.17	0.31	9.60	2.51	4.98	
76817	47.0	0.68	10.54	6.93	5.17	0.17	0.14	15.25	2.23	11.60	
76818	50.2	0.70	12.57	6.09	5.56	0.13	1.18	12.21	1.78	9.15	
76820	48.2	0.83	12.48	8.96	6.41	0.18	0.21	12.65	2.36	7.14	
76822	52.4	0.88	12.59	7.74	5.36	0.15	0.83	9.43	1.96	8.30	

H. Blais



PAMOREX MINERALS INC.
P.O. Box 2010
Timmins / Ont.
P4N 7X7

RÉSULTATS # 90-11-128 COMMANDE # 29-73676

PROJET #0617

DATE: 90/11/23

PAGE: 4

Att.: Mr. D. Clark

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	Cu	Zn	Ni	Ag	Au	Total				
	ppm	ppm	ppm	ppm	ppb	%				
76816	98	49	50	0.7	4	99.63				
76817	77	44	49	0.9	6	99.71				
76818	37	50	70	0.7	4	99.57				
76820	144	50	51	0.7	4	99.42				
76822	58	87	54	0.8	4	99.64				

H. Blais



PAMOREX MINERALS INC.
P.O. Box 2010
Timmins / Ont.
P4N 7X7

RÉSULTATS # 90-11-105 COMMANDE # 29-73676

PROJET # 0617

DATE: 90/11/20

PAGE: 1

Att.: Mr. Doug Clark

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	Au	Au	Au	Au-1	Au-2	Au-3	Au-4	Au-5			
	ppb	g/tm	oz/t	ppb	ppb	ppb	ppb	ppb			
C-76776 ✓	5										
C-76777 ✓	4										
C-76778 ✓	4										
C-76780 ✓	4										
C-76781 ✓	5										
C-76782 ✓	4										
C-76783 ✓	4										
C-76786 ✓	4										
C-76787 ✓	5										
C-76788 ✓	5										
C-76794 ✓	6										
C-76795 ✓	7										
C-76798 ✓	5										
C-76800 ✓	5										
C-76801 ✓	4										
C-76809 ✓	4										
C-76811 ✓	4										
C-76812 ✓	6										
C-76823 ✓	5										
C-76824 ✓	4										
C-76825 ✓	4										
C-76826 ✓	4										
C-76827 ✓	5										
C-76828 ✓	5										
C-76829 ✓	6										
C-76830 ✓	4										
C-76831 ✓	4										
C-76832 ✓	4										
C-76833 ✓	5										
C-76834 ✓	11										

Blais



PAMOREX MINERALS INC.
P.O. Box 2010
Timming / Ont.
P4N 7X7

RÉSULTATS # 90-11-105 COMMANDE #29-73676

PROJET # 0617

DATE: 90/11/20

PAGE: 2

Att.: Mr. Doug Clark

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	Au	Au	Au	Au-1	Au-2	Au-3	Au-4	Au-5			
	ppb	g/tm	oz/t	ppb	ppb	ppb	ppb	ppb			
C-76835	4	✓									

J. Blais

APPENDIX 4

Expenditures - 1990

PAMOREX MINERALS INC.
 1990 O.M.I.P. COST REPORT
 BY PROJECT AND PROPERTY
 FOR MAY 1 TO DEC. 31 PERIOD

PROJECT NAME: NIGHTHAWK LAKE PAMOREX % INTEREST (VESTED): 70%
 PROPERTY NAME: CROXALL/MINTEK PAMOREX % INTEREST (EARNING): 85%
 REFERENCE NO.: 0617 % EXPENDITURES APPLIED: 100%

ACCT. NO.	DESCRIPTION OF ACTIVITY MAJOR	MINOR	APRIL 30 YTD TOTAL	DEC. 31 YTD TOTAL	MAY 1 - DEC. 31 1990 COST
5503	MANAGEMENT	FIELD SUPPLIES	0.00	107.74	107.74
5506		ASSAYS	0.00	172.00	172.00
5508		SALARY/LABOUR	6,137.65	6,137.65	0.00
5528		ENVIRONMENTAL	221.94	221.94	0.00
5535	GEOLOGY	SALARY/LABOUR	0.00	1,404.61	1,404.61
5537		FIELD SUPPLIES	243.00	264.83	21.83
5539		VEHICLE	452.02	864.00	411.98
5540		FUEL	366.27	926.51	560.24
5542		COMPUTER SERV.	1,491.66	1,491.66	0.00
5543	TRENCHING	SALARY/LABOUR	0.60	0.60	0.00
5545		FIELD SUPPLIES	0.00	12.45	12.45
5567	GEOPHYSICS	AIRBORNE SURVEY	5,390.00	5,390.00	0.00
5570	DRILLING	STAFF SALARY	853.96	853.96	0.00
5571		HOURLY WAGES	2,911.59	2,911.59	0.00
5580		ASSAYS	786.57	786.57	0.00
5581		SURVEYING	450.50	450.50	0.00
5590		CONTRACTOR	3,094.54	3,094.54	0.00
5592		HOURLY WAGES	0.00	3,142.35	3,142.35
5599		COREBOXES/SUPP.	0.00	7,500.00	7,500.00
5600		SAMPLE STORAGE	0.00	2,335.65	2,335.65
5601		ASSAYS	269.30	812.80	543.50
5602		SURVEYING	17.40	587.51	570.11
5607		MOTORS	0.00	317.52	317.52
5608		EQUIPMENT	0.00	48.00	48.00
5611		CONTRACTOR	45,692.14	79,188.14	33,496.00

ACCT. NO.	DESCRIPTION OF ACTIVITY		APRIL 30 YTD TOTAL	DEC. 31 YTD TOTAL	MAY 1 - DEC. 31 1990 COST
	MAJOR	MINOR			
5656	OFFICE	EQUIP. RENTAL	120.00	196.00	76.00
5657		EQUIP. PURCHASE	0.00	642.89	642.89
5658		SUPPLIES	41.62	43.62	2.00
5659		TRAVEL/EXPENSES	53.75	53.75	0.00
5660		MISCELLANEOUS	24.12	38.60	14.48
TOTAL EXPENDITURES			68,618.63	119,997.98	51,379.35

metRICLAB (1980) inc.



Casier postal 150, 3388, Chemin Oka, Ste-Marthe-sur-le-lac, (Québec) J0N 1P0
TÉL.: (514) 473-0920 FAX: (514) 491-1074 TÉLEX: 05-835543

A PAMOREX MINERALS INC.
P.O. Box 2010
Timmins / Ont.
P4N 7X7

FACTURE # 90-11-128
RÉSULTATS # 90-11-128
COMMANDE # 29-73676
PROJET #
DATE: 0617
90/11/23
CLIENT: # 2031

Att: Accounts Payable

35 Litho.
@ \$20.00 each.....\$ 700.00

\$ 700.00

\$ 700.00

H. Blais

H. Blais

METRICLAB (1980) INC.

COSTS APPROVED

0617 / 5601

Philip E. Olsch 548

METRICLAB (1980) INC.



Casier postal 150, 3388, Chemin Oka, Ste-Marthe-sur-le-lac, (Québec) J0N 1P0
TÉL.: (514) 473-0920 FAX: (514) 491-1074 TÉLEX: 05-835543

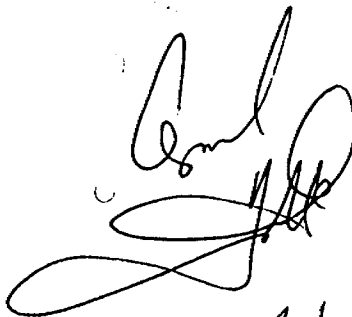
A PAMOREX MINERALS INC.
P.O. Box 2010
Timmins / Ont.
P4N 7X7

FACTURE # 90-11-105
RÉSULTATS # 90-11-105
COMMANDE # 29-73676
PROJET #
DATE: 0617
90/11/20
CLIENT: # 2031

Att: Accounts Payable

31	Au @ \$7.00 each.....\$	217.00
31	Sample preparations. @ \$2.00 each.....\$	<u>62.00</u>
		\$ 279.00

\$ 279.00


25/11/90.



H. Blais

METRICLAB (1980) INC.

Acci. 5601-
REF. 0617
REF. 902

METRICLAB (1980) INC.



Casier postal 150, 3388, Chemin Oka, Ste-Marthe-sur-le-lac, (Québec) J0N 1P0
TÉL.: (514) 473-0920 FAX: (514) 491-1074 TÉLEX: 05-835543

A PAMOREX MINERALS INC.
P.O. Box 2010
Timmins / Ont.
P4N 7X7

FACTURE # 90-11-104
RÉSULTATS # 90-11-104
COMMANDE # 29-73676
PROJET #
DATE: 0617
90/11/20
CLIENT: # 2031

Att.: Accounts Payable

14	Cu @ \$ 1.85	each.....	\$ 25.90
14	Zn @ \$ 0.90	each	\$ 12.60
14	Au @ \$ 7.00	each.....	\$ 98.00
14	Sample preparations.		
	@ \$2.00	each.....	\$ 28.00
			\$ 164.50

\$ 164.50

[Handwritten signature]
[Handwritten signature] 26/11/90

REC. 5201
REF. 0617.
RES. 902

H. Blais

H. Blais

METRICLAB (1980) INC.



Norex Drilling Limited

Telephone (705) 235-2222
Fax (705) 235-2806

P.O. Box 88 - Porcupine, Ontario P0N 1C0

October 12, 1990

DUPLICATE

Invoice #P901012

**PAMOREX MINERALS INC.
NIGHTHAWK LAKE AREA**

FOR THE PERIOD - SEPTEMBER 27 - OCTOBER 9/90

HOLE #MT-90-A, Casing 82'

1000' x \$12.75	12,750.00
1000' to 1186' = 186' x \$13.25	2,464.50
8 Tests x \$50.00	400.00
6 x 10' NW Casing x \$126.00	756.00
1 NW Shoe x 175.00	175.00
8 x 10' BW Casing x \$104.00	832.00
2 x 2' BW Casing x \$32.00	64.00
1 BW Shoe x \$125.00	125.00
1 BW Casing Cap x \$25.00	25.00

HOLE #MT-90-2, Casing 66'

1000' x \$12.75	12,750.00
1000' to 1146' = 146' x \$13.25	1,934.50
7 Tests x \$50.00	350.00
6 x 10' BW Casing x \$104.00	624.00
3 x 2' BW Casing x \$32.00	96.00
1 BW Shoe x \$125.00	125.00
1 BW Cap x \$25.00	25.00

INVOICE TOTAL:

\$ 33,496.00

THANK YOU

PO 542



Giant Yellowknife Mines Limited
Timmins Division
P.O. Bag 2010
Timmins, Ontario, Canada P4N 7X7

24643

DAY MO. YEAR
31 10 90

AMOUNT
\$ ****33,496.00

PAY TO THE ORDER OF

NOREX DRILLING LTD.
BOX 88
PORCUPINE, ONTARIO
P0N 1C0

Giant Yellowknife Mines Limited

CANADIAN IMPERIAL BANK OF COMMERCE
FIVE AND THIRD
TIMMINS, ONTARIO

Mark H. [Signature]
AUTHORIZED SIGNATURE

[Signature]
AUTHORIZED SIGNATURE

004920010 72001613

0009493000

DEPOSITED TO THE CREDIT OF
SOUTH PORCUPINE, ONT. P0N 1C0

NO 90 26
CLBC
DATA CENTRE
TOP ONT.

NO 90 26
TORONTO DOMINION BANK
TORONTO DATA CENTRE
TORONTO, ONTARIO

36802-014
MAY 6 1990

Giant

Giant Yellowknife Mines Limited
Timmins Division
P.O. Bag 2010
Timmins, Ontario, Canada P4N 7X7

25160

DAY	MO.	YEAR
11	30	90

AMOUNT
\$ *****1,143.50

PAY TO THE ORDER OF

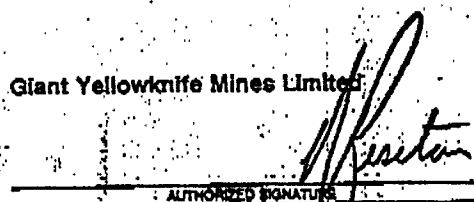
METRICLAB (1980) INC.
C.P. 150, 3388, CHEMIN D'OKA
ST-MARTHE, QUEBEC
JON 1P0

Giant Yellowknife Mines Limited

CANADIAN IMPERIAL BANK OF COMMERCE
PINE AND THIRD
TIMMINS, ONTARIO



AUTHORIZED SIGNATURE



AUTHORIZED SIGNATURE

00492010127201613

0000114350

FOUR DÉPÔT SEULEMENT
AU CRÉDIT DE
METRICLAB (1980) INC.
compte 186162

DE 90 24
C.I.B.C.
GENERAL TRADING
MONTREAL DATA CENTRE

DE 90 24
QUEBEC

09221-008 BANQUE ROYALE 07 ROYAL BANK 90DEC24 0111084
60 RUEGEON STETHERESEDEBAINVILLILLLE08221-008 94105 13

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE RECEIVED	FEET CASED	ANGL
	FROM	TO				
mt-92-01	0	60			60	NW
	60	82			12	BW
	80	106	26			BQ
	106	346	240			BQ

Drill No. _____

Contract Pamox

No. _____ DATE September 27 1992

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME										
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING				
J. Chouinard			11															
R. M.			11															
Mc Desjardins			12															
Mr. Baunor			12															

REMARKS move Machine to set up 3 miles

DRILL HOURS
TRACTOR HOURS

SUPPLIES TO BE CHARGED TO COMPANY

FUEL	GALS.		
OIL	QTS.		
CEMENT-KIND	BAGS		
MUD-KIND	BAGS		
CASING SIZE	FEET		
SIZE	FEET		

DIAMONDS

SIZE	TYPE	BIT NO.	REASON FOR CHARGE

LENGTH OF WATER LINE 200 FEET

DISTANCE MOVED _____ FEET

TESTS 1 AT 200' FEET

_____ AT _____ FEET

FOREMAN _____

APPROVED _____

COMPANY REPRESENTATIVE _____

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE RECD	FEET CASSED	ANGL
	FROM	TO				
MT-90-1	346	526	180			BD
	526	716	190			

Drill No. _____

Contract Pamox No. _____ DATE September 28 19 90

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME										
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING				
J. Chouinard			12															
G.O.			12															
M. Desjardins			12															
M. Bruno			12															
REMARKS				DRILL HOURS														
Pull Rods change Bit trollie with cutting				TRACTOR HOURS														
				SUPPLIES TO BE CHARGED TO COMPANY														
				FUEL	GALS.													
				OIL	QTS.													
				CEMENT-KIND	BAGS													
				MUD-KIND	BAGS													
				CASING SIZE	FEET													
				SIZE	FEET													
				DIAMONDS														
				SIZE	TYPE	BIT NO.	REASON FOR CHARGE											
LENGTH OF WATER LINE				FEET														
DISTANCE MOVED				FEET														
TESTS 1 AT 400 Acid				FEET														
1 AT 600 Acid				FEET														

FOREMAN _____ APPROVED _____ COMPANY REPRESENTATIVE _____

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE REC'D	FEET CASED	ANGL
	FROM	TO				
mt-90-1	716	876	160			BD
	876	888	10			

Drill No. _____

Contract Pamox

No. _____ DATE September 29 19 96

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME											
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING					
J. Chauvaud			12																
S.V.			12																
M. Desjardins			12																
M. Bruno			12																
REMARKS				DRILL HOURS															
- change Hyd motor for pressure pump				TRACTOR HOURS				SUPPLIES TO BE CHARGED TO COMPANY											
- trouble with supply no water								FUEL		GALS.									
								OIL		QTS.									
								CEMENT-KIND		BAGS									
								MUD-KIND		BAGS									
- trouble with supply								CASING SIZE		FEET									
- dig ramps on side of lake with to site								SIZE		FEET									
- Pull Rods change bit								DIAMONDS											
								SIZE		TYPE		BIT NO.		REASON FOR CHARGE					
LENGTH OF WATER LINE				FEET															
DISTANCE MOVED				FEET															
TESTS <u>1</u> AT <u>800 Acid</u>				FEET															
_____ AT _____				FEET															

FOREMAN _____ APPROVED _____ COMPANY REPRESENTATIVE _____

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE RECOVERY	FEET CASED	ANGL
	FROM	TO				
mt-90-01	888	1006	120			BQ
	1006	1146	140			

Drill No. _____

Contract Pamarex No. _____ DATE September 30 1990

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME											
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING					
S. Chouinard			12																
L.V.			12																
A. Desjardins			12																
M. Bruno			12																
REMARKS				DRILL HOURS															
H-2 Blocky & Graphite				TRACTOR HOURS															
				SUPPLIES TO BE CHARGED TO COMPANY															
				FUEL		GALS.													
				OIL		QTS.													
				CEMENT-KIND		BAGS													
				MUD-KIND		BAGS													
				CASING SIZE		FEET													
				SIZE		FEET													
				DIAMONDS															
				SIZE		TYPE		BIT NO.		REASON FOR CHANGE									
LENGTH OF WATER LINE				FEET															
DISTANCE MOVED				FEET															
TESTS / AT 1000'				FEET															
AT				FEET															

FOREMAN _____

APPROVED _____

COMPANY REPRESENTATIVE _____

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE RECOVERED	FEET CASSED	ANGLE
	FROM	TO				
MT 90-01	1146	1186	40'			
MT 90-02	0	60			60	BW
	66	66			6	BW

66 296 230'

Drill No. _____

Contract PAMOREY

No. _____ DATE Oct 1

19 90

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME			COST PLUS TIME										
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING			
JULIEN CHOUINARD			12														
DENNIS THERRIEN			12														
ALAIN DUCJARDINS			12														
MICHAEL BRUNO			12														

REMARKS
 Day: Pull rods. Took SPRAY SWM TEST
 DRILL HOURS
 TRACTOR HOURS

SUPPLIES TO BE CHARGED TO COMPANY			
FUEL	GALS.		
OIL	QTS.		
CEMENT-KIND	BAGS		
MUD-KIND	BAGS		
CASING SIZE	NW 60 FEET	1 CAP	
BW SIZE	84 FEET	6	
		8x10	2x2

NIGHT: MOVE DRILL, supply pump, set up, start casing

DIAMONDS			
SIZE	TYPE	BIT NO.	REASON FOR CHARGE

LENGTH OF WATER LINE FEET
 DISTANCE MOVED FEET
 TESTS 4 AT 266, 566, 866, 1166 FEET
 1 AT ACID TEST AT 200' FEET

FOREMAN _____ APPROVED Alou Clark COMPANY REPRESENTATIVE

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE RECOVERED	FEET CASED	ANGLE
	FROM	TO				
MT-90-02	296	496	200'			
	496	696	200'			

Drill No. _____

Contract Ramsey

No. _____ DATE Oct 2 19 90

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME								
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING		
TULIEN CHOUINARD			12													
DAVIDS THERRIEN			12													
ROGER MOREAU																
MARC PEGARDINS			12													
YVES HALL BRUND			12													
REMARKS				DRILL HOURS												
DAY: CHANGE BELT FOR TIGHTNER, WENT TO PHONE SHOP FOR PARTS.				TRACTOR HOURS												
NIGHT: CHANGE TIGHTNER, BROKE RODS.				SUPPLIES TO BE CHARGED TO COMPANY												
				FUEL	GALS.											
				OIL	QTS.											
				CEMENT-KIND	BAGS											
				MUD-KIND	BAGS											
				CASING SIZE	FEET											
				SIZE	FEET											
				DIAMONDS												
				SIZE	TYPE	BIT NO.	REASON FOR CHARGE									
LENGTH OF WATER LINE				FEET												
DISTANCE MOVED				FEET												
TESTS 1 AT ACID - 400'				FEET												
1 AT ACID - 600'				FEET												

FOREMAN _____

APPROVED _____

Doug Clark

COMPANY REPRESENTATIVE

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE RECD	FEET CASED	ANGLE
	FROM	TO				
MT-90-02	696	766	70'			

Drill No. _____
 Contract FAMOREY No. _____ DATE Oct 3 19 90

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME										
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING				
<u>JULIEN CHOUINARD</u>			<u>10</u>															
<u>DENIS THERRIEN</u>			<u>10</u>															
REMARKS				DRILL HOURS														
				TRACTOR HOURS														
<u>DAY: Pull rods trouble with seam "Graftin" change bit, trouble with suction left early.</u>												SUPPLIES TO BE CHARGED TO COMPANY						
								FUEL				GALS.						
								OIL				QTS.						
								CEMENT-KIND				BAGS						
								MUD-KIND				BAGS						
<u>NIGHT: NO SHIFT</u>								CASING SIZE				FEET						
								SIZE				FEET						
												DIAMONDS						
								SIZE		TYPE		BIT NO.		REASON FOR CHARGE				
LENGTH OF WATER LINE																		
DISTANCE MOVED																		
TESTS AT																		
AT																		

FOREMAN _____ APPROVED Doug Clark COMPANY REPRESENTATIVE

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE RECOVERD	FEET CASED	ANGLE
	FROM	TO				
MT-9002	766	946	180'			

Drill No. _____
 Contract PAMORRY No. _____ DATE Oct 4 19 88

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME											
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING					
Julien Choumard			12																
Denis Therrien			12																
Alain Desjardins			4																
Michel Brund			4																
REMARKS				DRILL HOURS	TRACTOR HOURS														
DAY: TRAVEL WITH MUSKOG TO DRILL LAKE TO ROUGH.				SUPPLIES TO BE CHARGED TO COMPANY															
				FUEL		GALS.													
				OIL		QTS.													
				CEMENT-KIND		BAGS													
				MUD-KIND		BAGS													
				CASING SIZE		FEET													
				SIZE		FEET													
				DIAMONDS															
				SIZE		TYPE		BIT NO.		REASON FOR CHARGE									
LENGTH OF WATER LINE				FEET															
DISTANCE MOVED				FEET															
TESTS 1 AT ACID AT 800'				FEET															
AT				FEET															

FOREMAN _____ APPROVED Doug Clark COMPANY REPRESENTATIVE

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE REQ'D	FEET CASED	ANGLE
	FROM	TO				
M790-02	946	1056	110'			

Drill No. _____
 Contract PAMOREY No. _____ DATE Oct 5 19 70

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME									
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING			
<u>JULIEN HOUMARD</u>			<u>10</u>														
<u>DRINIS THERRIEN</u>			<u>10</u>														

REMARKS _____ DRILL HOURS _____ TRACTOR HOURS _____

DAY : DRILL 110' FT AND DRAIN EVERYTHING

NIGHT : NO SHIFT

SUPPLIES TO BE CHARGED TO COMPANY			
FUEL	GALS.		
OIL	QTS.		
CEMENT-KIND	BAGS		
MUD-KIND	BAGS		
CASING SIZE	FEET		
SIZE	FEET		

DIAMONDS			
SIZE	TYPE	BIT NO.	REASON FOR CHARGE

LENGTH OF WATER LINE _____ FEET
 DISTANCE MOVED _____ FEET
 TESTS _____ AT _____ FEET
 _____ AT _____ FEET

FOREMAN _____ APPROVED Mouq Clark COMPANY REPRESENTATIVE

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE RECD	FEET CASED	ANGLE
	FROM	TO				
Mt-90-02	1056	1146	88'			

Drill No. _____

Contract _____ No. _____ DATE Oct 9 19 90

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME										
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING				
MARC Desjardins			12															
MICHAEL BRUND			12															
Jean Gouin			8															
DANIS THERRIEN			8															

REMARKS
 Day: Pull rods @ change bit
 Jam rods going down in
 graphite.

SUPPLIES TO BE CHARGED TO COMPANY

FUEL	GALS.		
OIL	QTS.		
CEMENT-KIND	BAGS		
MUD-KIND	BAGS		
CASING SIZE	FEET		
SIZE	FEET		
		1 CAP RW	LEFT IN HOLE
	66	6x10'	3x2'

NIGHT: Pull rods leave casing
 in hole, drag sumps
 two miles

DIAMONDS

SIZE	TYPE	BIT NO.	REASON FOR CHARGE

LENGTH OF WATER LINE _____ FEET
 DISTANCE MOVED _____ FEET
 TESTS 2 AT SPERRY SUN AT 300' AND 600' FEET
1 AT SPERRY SUN AT 1146 FEET

FOREMAN _____ APPROVED Doug Clark COMPANY REPRESENTATIVE



Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE RECOVERY	FEET CASED	ANGLE
	FROM	TO				

Drill No. _____
 Contract Pamarey No. _____ DATE Oct 10 19 80

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME									
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING			
<u>MARC DESJARDINS</u>			<u>12</u>														
<u>MICHEL BXUND</u>			<u>12</u>														

REMARKS _____ DRILL HOURS _____ TRACTOR HOURS _____

DM: MOUR EQUIPMENT OUT TO HIGHWAY

SUPPLIES TO BE CHARGED TO COMPANY			
FUEL	GALS.		
OIL	QTS.		
CEMENT-KIND	BAGS		
MUD-KIND	BAGS		
CASING SIZE	FEET		
SIZE	FEET		

DIAMONDS			
SIZE	TYPE	BIT NO.	REASON FOR CHARGE

LENGTH OF WATER LINE _____ FEET
 DISTANCE MOVED _____ FEET
 TESTS _____ AT _____ FEET
 _____ AT _____ FEET

FOREMAN _____ APPROVED Shug Clark COMPANY REPRESENTATIVE



42A07NW8464 63.6098 CODY

020

PAMOREX MINERALS INC.
TIMMINS DIVISION
REGIONAL EXPLORATION DEPT.
NIGHTHAWK LAKE PROJECT
NORTH AND EAST KARPOVICH
O.M.I.P. REPORT - 1990

Submitted by:

**Malcolm Robb,
Senior Project Geologist,
Regional Exploration Dept.**

February, 1991



42A07NW8464 63.6098 CODY

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020C

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Stage	1
Deposit Type	1
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Ownership	1
Mineral Inventory	1
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Work Done	2
Results	3
Proposed Follow-Up Work	3

APPENDICES

Appendix 1	Drill Hole Logs - NK90-01 and NK90-02
Appendix 2	Assay Certificates & Conversions (ppb to o.p.t.)
Appendix 3	Alpha-Numeric Geology Legend

(1)

COMMODITIES

Au.

STAGE

Grass roots.

DEPOSIT TYPE

Epigenetic gold deposits hosted in Archean rocks (highly altered mafic and ultramafic volcanics with associated altered felsic intrusive) and closely associated with a major deformation zone (Nighthawk Lake Break) (see Figure 1).

LOCATION NTS:42A/NE¹⁰

North Karpovich Block: (80°57'W, 48°31'N or 503500mE, 5372500mN)

East Karpovich Block: (80°55'W, 48°31'N or 506500mE, 5373000mN)

West-central Cody Township on the northeast shore of the North Peninsula of Nighthawk Lake (parts of Lots 1 and 2, Concessions IV and V) and in west-central Macklem Township on the East Peninsula of Nighthawk Lake (parts of Lot 10, Concessions IV and V), approximately 15 miles east of Timmins.

PROPERTY

Consists of three (3) separate leased mining claims. Two (2) in Cody Township (P1130159 and P1130160) and one (1) in Macklem Township (P567201). Note: P567201 in part of Exploratory License of Occupation # 14920 (see Table 1).

OWNERSHIP

100% Pamorex Minerals with a 12.5% Net Carried Interest Royalty in favour of Karpovich and Rousseau.

MINERAL INVENTORY

None to date.

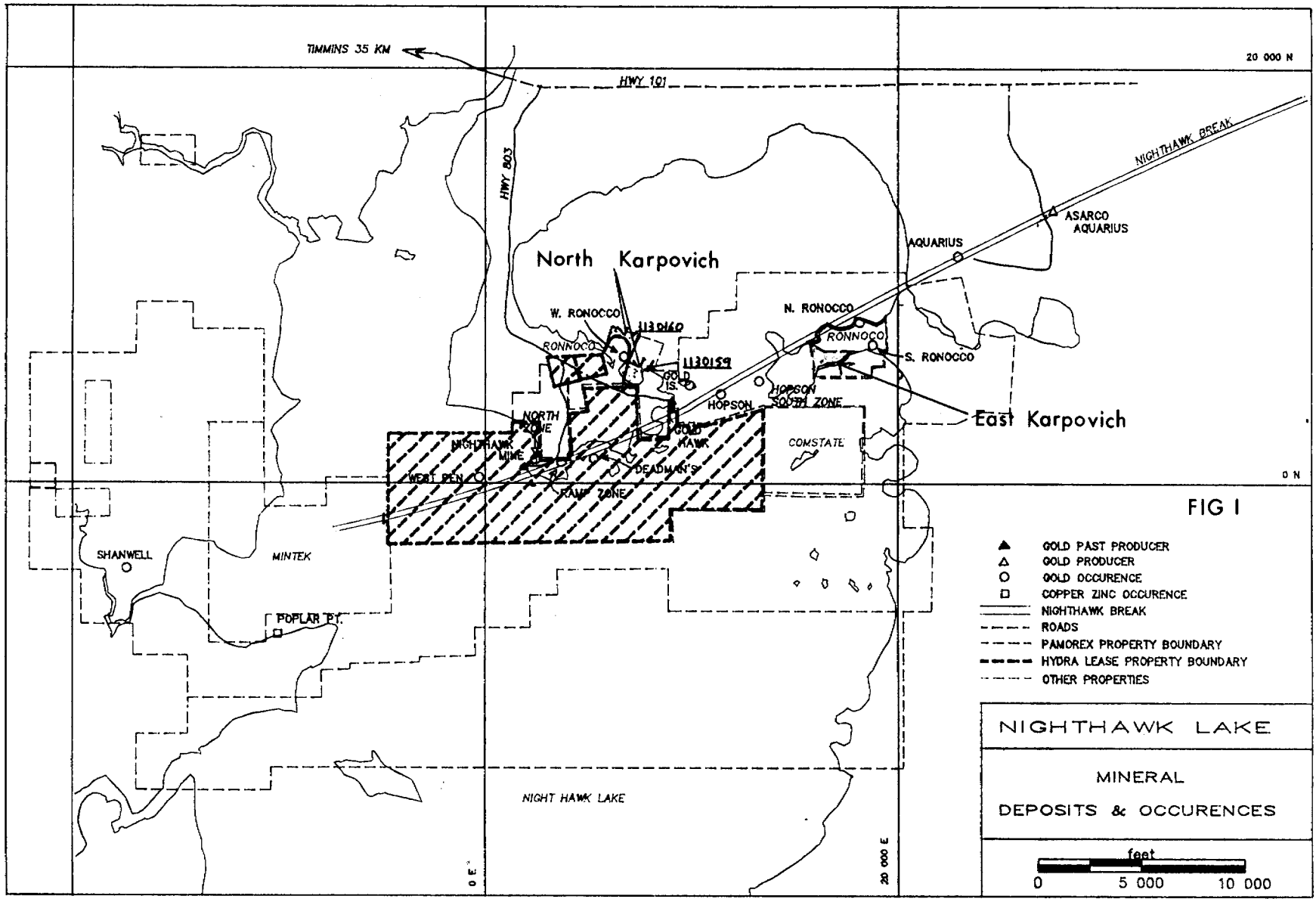


TABLE 1

NORTH KARPOVICH
CLAIM STATUS

CLAIM NO.	TWP	STATUS	RECORDED DATE	DAYS WORK DONE	WORK REQUIRED	DATE DUE
P1130159	Cody	Staked	02/04/90	222	Lease extn.	02/04/96
P1130160	Cody	Staked	02/02/90	214	Lease extn.	02/04/96

EXPENDITURES BY YEAR

1981	\$ 8,170
1982	\$ 3,369
1983	\$10,103
1984	\$ 4,000
1985	\$ 4,000
1986	\$ 4,249
1987	\$ 4,093
1988	\$ 8,139
1989	\$ 9,756
1990	\$11,194

Table 2 summarizes the 1990 expenditures on the North Karpovich claims.

INTRODUCTION**WORK DONE**

By Pamorex Minerals/Pamour Inc:

East Karpovich Block

During February, 1981, Pamour drilled one diamond drill hole, PAM-1, 650 feet south of claim post #4 on P567201. The hole was drilled 60°->000° and totalled 166 feet.

North Karpovich Block

One drillhole was completed by Pamour in 1984 (PNH 84-3). It intersected mafic volcanics and talc chlorite schist. Sampling returned a maximum value of 0.014 o.p.t. Au over an intersected width of 2.2 feet.

During June, 1990, Norex Drilling Ltd. completed 552 feet of drilling in two holes, one on each of the two North Karpovich claims (P1130159 and P1130160, Figure 1).

TABLE 2

PAMOREX MINERALS INC.
1990 O.M.I.P. COST REPORT
BY PROJECT AND PROPERTY
FOR MAY 1 TO DEC. 31 PERIOD

PROJECT NAME: NIGHTHAWK LAKE PAMOREX % INTEREST (VESTED): 100%
PROPERTY NAME: KARPOVICH (NORTH) % EXPENDITURES APPLIED: 100%
REFERENCE NO.: 0604

ACCT. NO.	DESCRIPTION OF ACTIVITY		APRIL 30 YTD TOTAL	DEC. 31 YTD TOTAL	MAY 1 - DEC. 31 1990 COST
	MAJOR	MINOR			
5508	MANAGEMENT	SALARY/LABOUR	0.00	1,109.92	1,109.92
5540	GEOLOGY	FUEL	0.00	57.62	57.62
5591	DRILLING	SALARY/LABOUR	0.00	697.19	697.19
5592		HOURLY WAGES	0.00	680.81	680.81
5601		ASSAYS	0.00	462.50	462.50
5611		CONTRACTOR	0.00	8,186.00	8,186.00
TOTAL EXPENDITURES			0.00	11,194.04	11,194.04

RESULTS

Results of the two holes are summarized on Figures 2 and 3, showing geology and significant assays in section and plan. Summary and detailed logs are attached as Appendix 1. The results of the 39 samples taken for gold analysis are also attached as Appendix 2 along with assay certificates from the laboratory that completed the work (Giant Yellowknife Mines Limited, Schumacher, Ontario). A copy of the Alpha-Numeric geology legend for the Timmins-Kirkland Lake area is also attached for reference as Appendix 3.

Both drillholes intersected variably quartz veined (1-3%) ultramafic volcanics intruded by felsic intrusives (dikes?). Sampling of the upper contact of the felsic intrusive in NK90-01 returned a value of 1010 ppb Au (0.029 o.p.t.) over an intersected width of 2.1 feet. Samples of a section of the ultramafic volcanics from 157.6-167.0 feet returned results ranging from 190-635 ppb Au (0.006-0.018 o.p.t. Au). Sampling of a wider (48.6 feet intersected width) felsic intrusive in NK90-02 defined a wide zone of anomalous gold mineralization as follows:

196.8-239.5 - 0.049 o.p.t. Au - 42.7' intersected width (approx. 11' true width)

Included within this zone was a higher grade core:

217.6-228.7 - 0.086 o.p.t. Au - 11.1' intersected width (approx. 3' true width)

In addition to this above zone, sampling of the ultramafic volcanics adjacent to a "barren" quartz vein at 21.3- 22.9 feet returned results of 410 ppb Au (0.012 o.p.t.) in the vein and 925 ppb Au (0.027 o.p.t.) in the volcanics.

All the above results are highlighted on Figures 2 and 3.

PROPOSED FOLLOW UP WORK

No work is planned to immediately follow up the results of the above drilling. A program of barge drilling on Nighthawk Lake has been proposed for mid-1991 and this may include additional testing of the gold mineralization intersected by NK90-02.

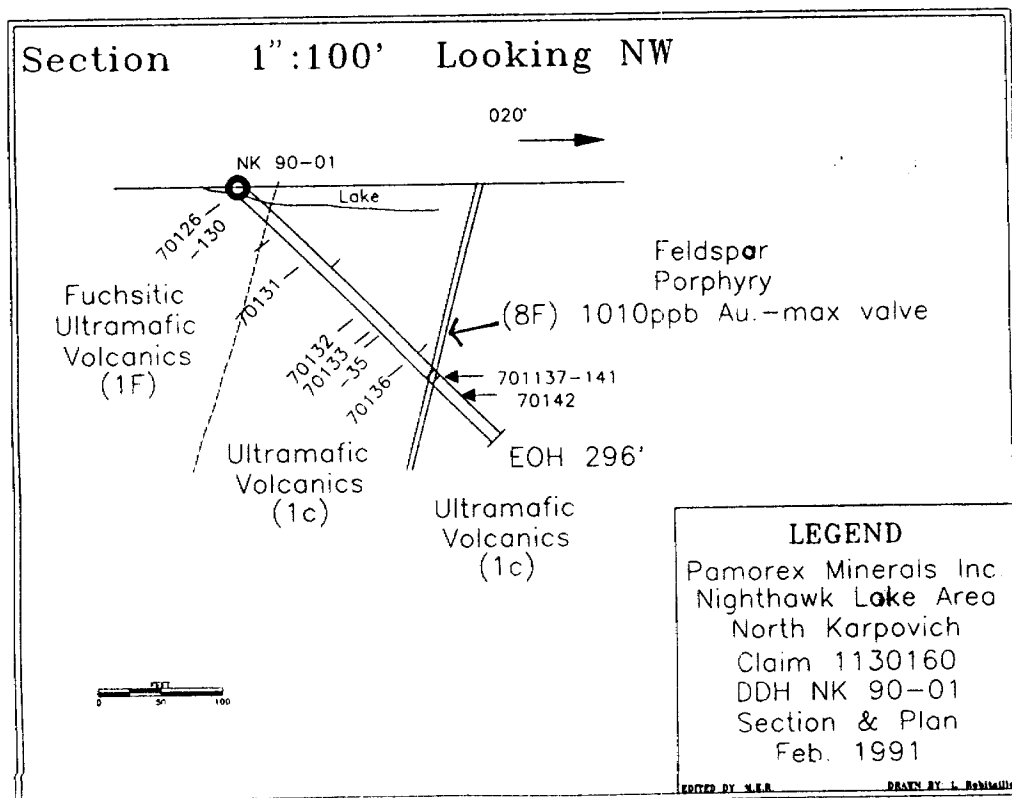
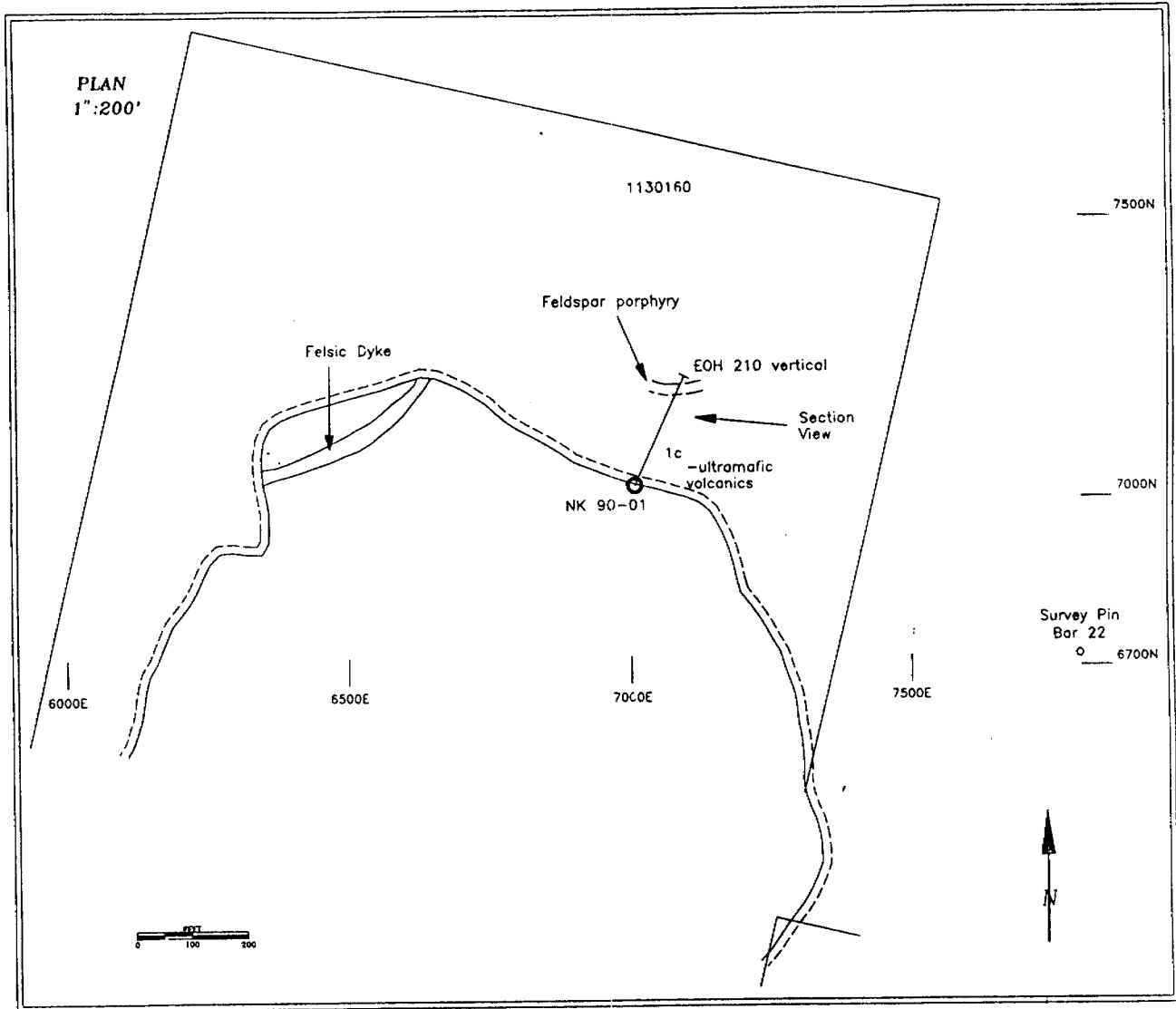
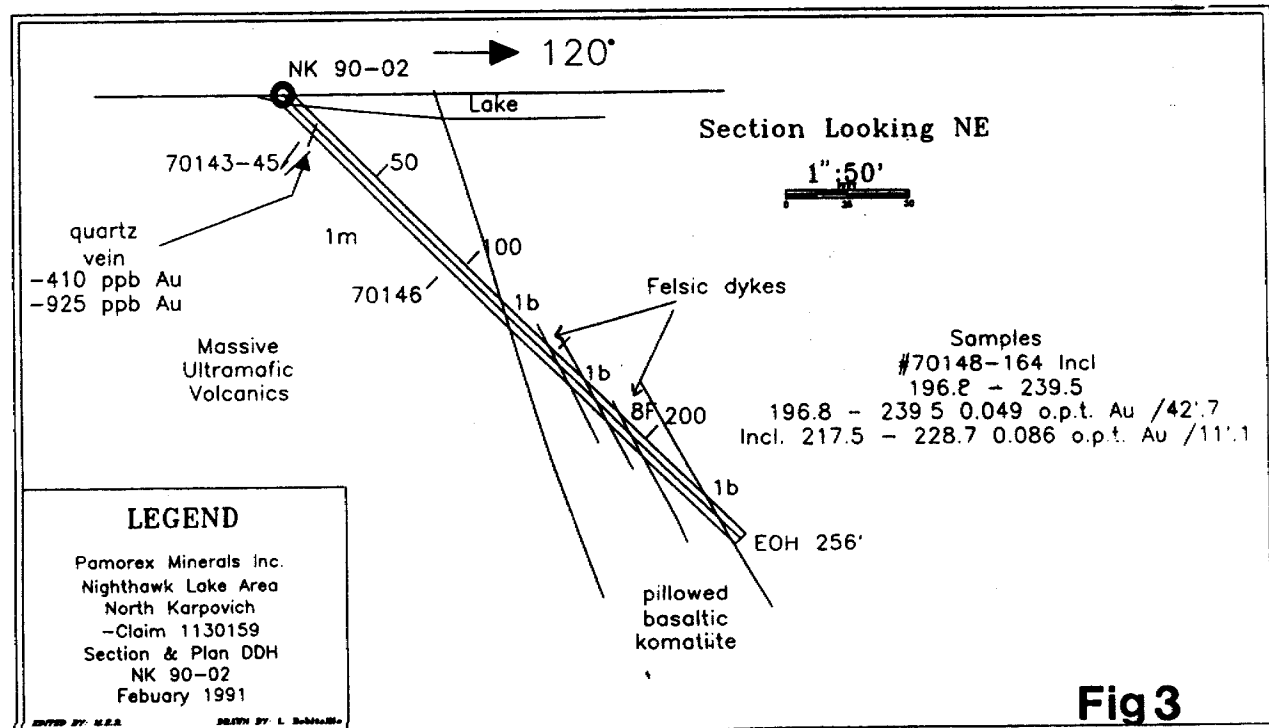
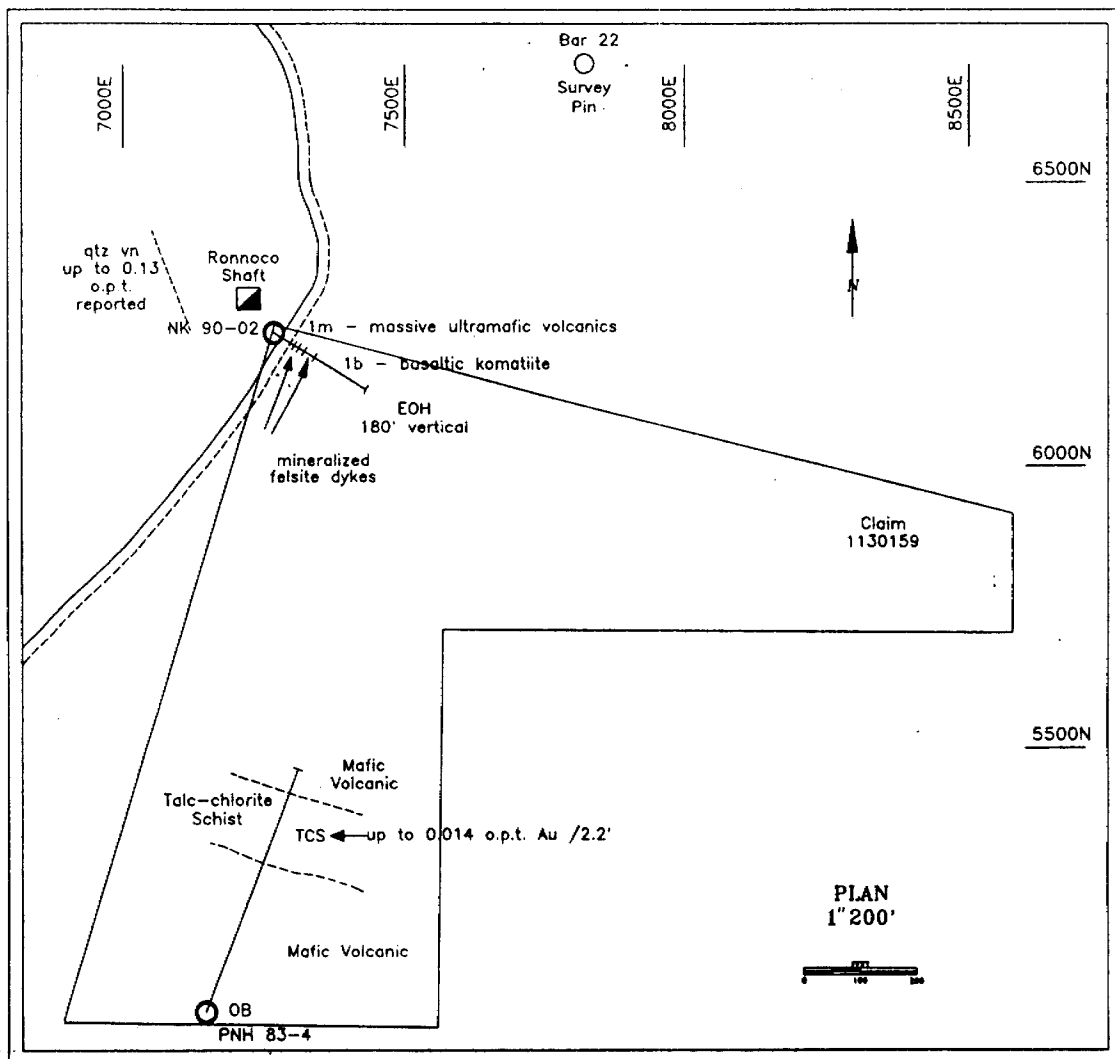


Fig 2



LEGEND
 Pamorex Minerals Inc.
 Nighthawk Lake Area
 North Karpovich
 -Claim 1130159
 Section & Plan DDH
 NK 90-02
 February 1991

Fig 3

APPENDIX 1

Drill Hole Logs

NK90-01

NK90-02

SUMMARY LOG

Hole Number: NK 90-01
Date Drilled: June 25th-27th 1990
Contractor: Norex Drilling
Property: North Karpovich
Township: Cody
Claim No.: P 1130160
Coordinates: 6990 N, 6980 E, EL 10920 (approx)
-45 , Az. 020
Length: 296'
Size: BQ
Casing: 16'
Surveys: Collar
Purpose: To test for extension of quartz veining seen in outcrop on shoreline in small shear zone.

Results

Geology: Intersected ultramafic rocks (carbonated peridotitic komatiite) with significant fuchsite from 16.0-36.0. The ultramafics are intruded by a sericitized Feldspar Porphyry unit from 217.6-223.2.

Sampling: A total of 58.9' (20%) of the core was sawed and sent to Giant Yellowknives Laboratory at Schumacher, Timmins for gold analysis. The upper contact of the felsite intrusive returned a grade of 1010 ppb Au (0.029 oz/t Au) over 2.1' (intersected width). Four other results over 150 ppb Au were returned from sampling of the ultramafics (see logs for details).

Core/Rejects: All drill core is stored at the Hollinger core facility, Timmins. Sample rejects are also stored there for a period of six months depending on space and project priorities.

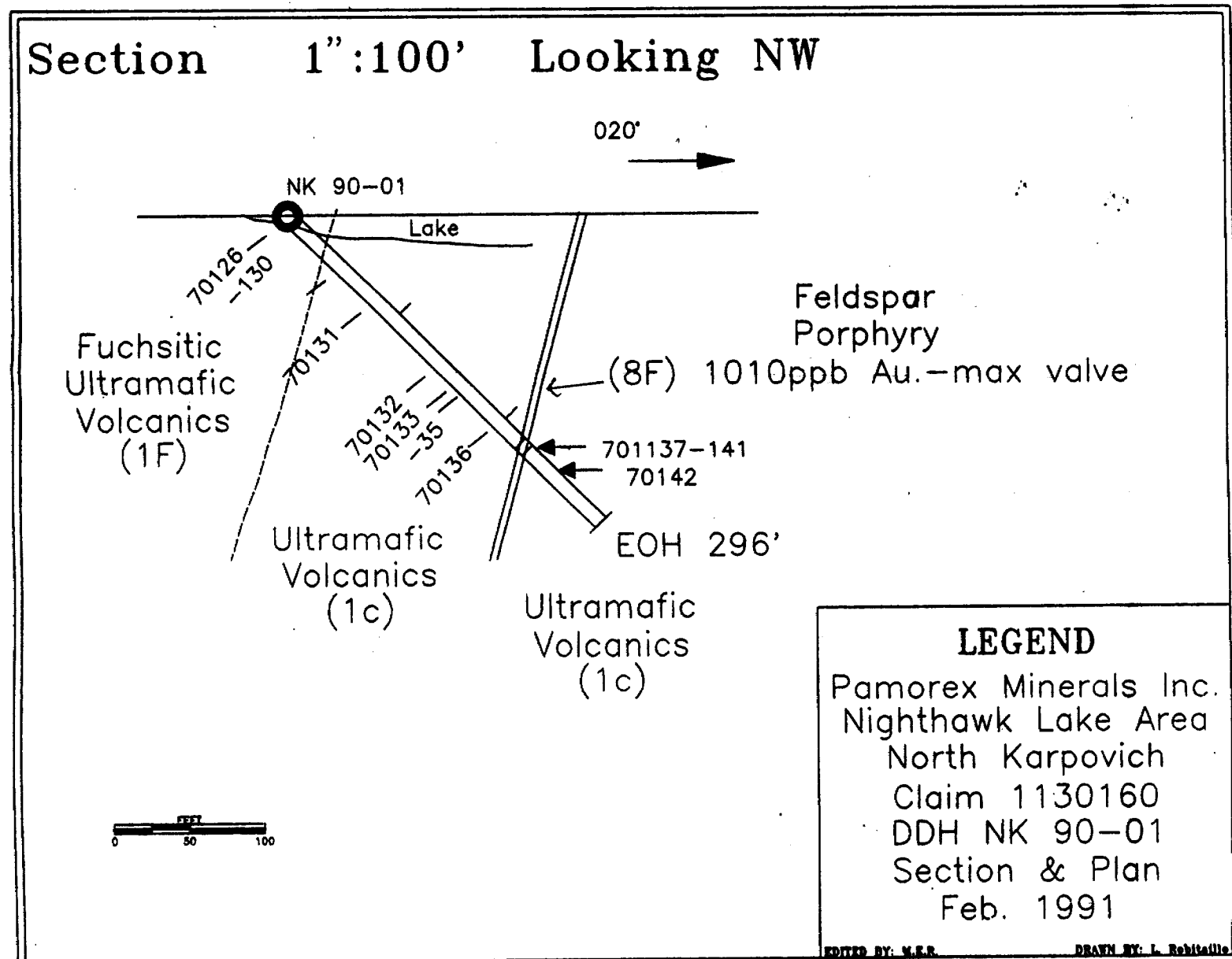
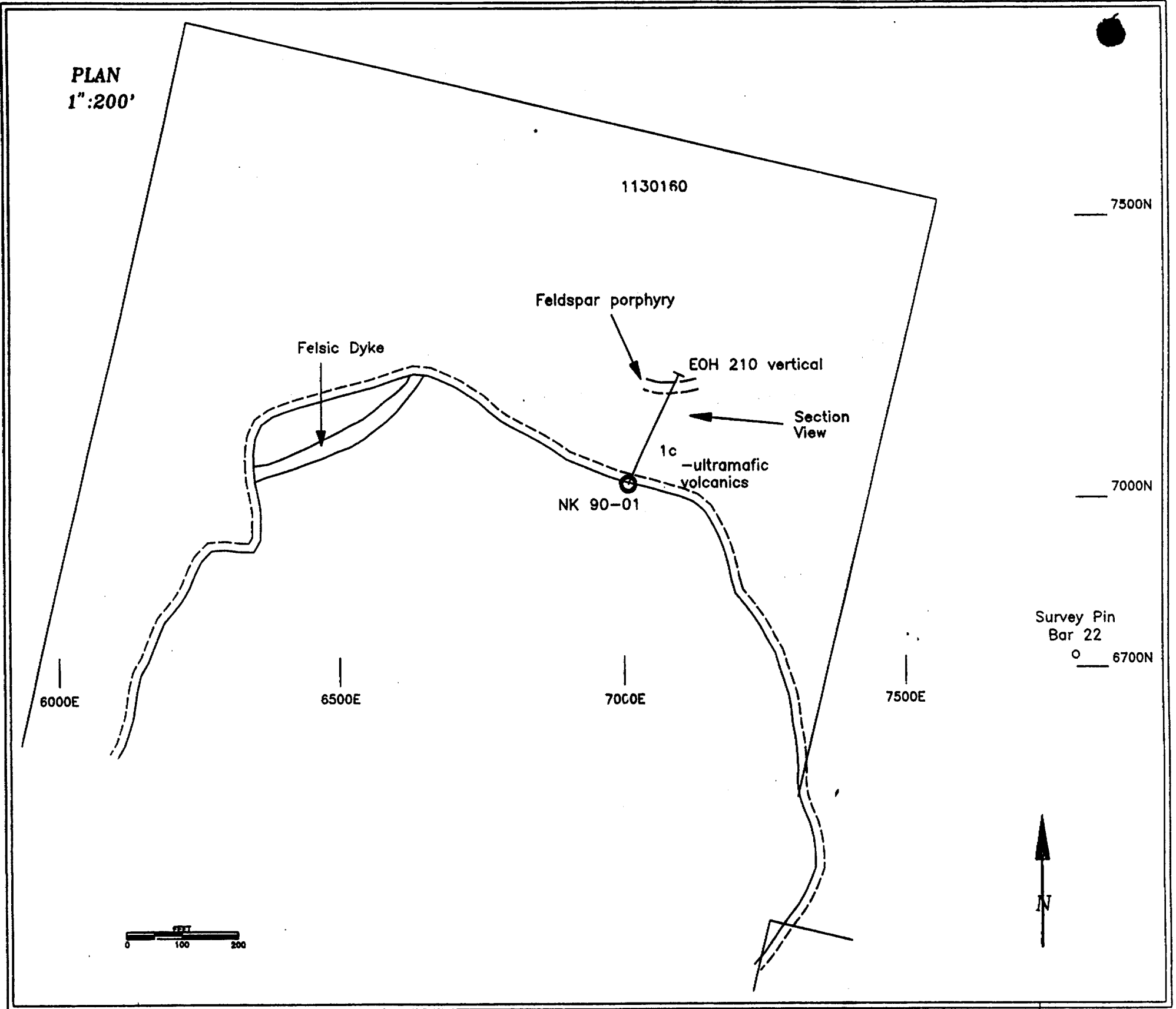
Logged By

D. Clarke

FOOTAGE

LITHOLOGY

0.0 - 16.0	Casing
16.0 - 36.0	Ultramafic Volcanics - Fuchsitic (5-10%), strong carbonitization, locally pervasive ankerite.
36.0 - 217.6	Ultramafic volcanics-carbonated basaltic komatiite.
217.6 - 223.2	Feldspar porphyry, sericitized.
	217.6 - 219.7 1010 ppb Au (0.029oz/t)
223.2 - 296.0	Ultramafic volcanics - as above.
	241.0 - 296.0 Sheared, chloritic
296.0	EOH



SUMMARY LOG

Hole Number: NK 90-02
Date Drilled 27th -28th June 1990
Contractor Norex Drilling Ltd.
Property North Karpovich
Township Cody
Claim No. P 1130159
Coordinates 6230.0 N, 7270.0 E, El 10920.0
(approx), -45 ,Az. 120
Length 256'
Size BQ
Casing 5.5'
Surveys Collar
Purpose Drilled to test the potential for mineralization associated with felsic dyke mapped on surface.

Results

Geology: Intersected ultramafic rocks (basaltic komatiites) intruded by sericitized and quartz carbonate veined felsite dykes.

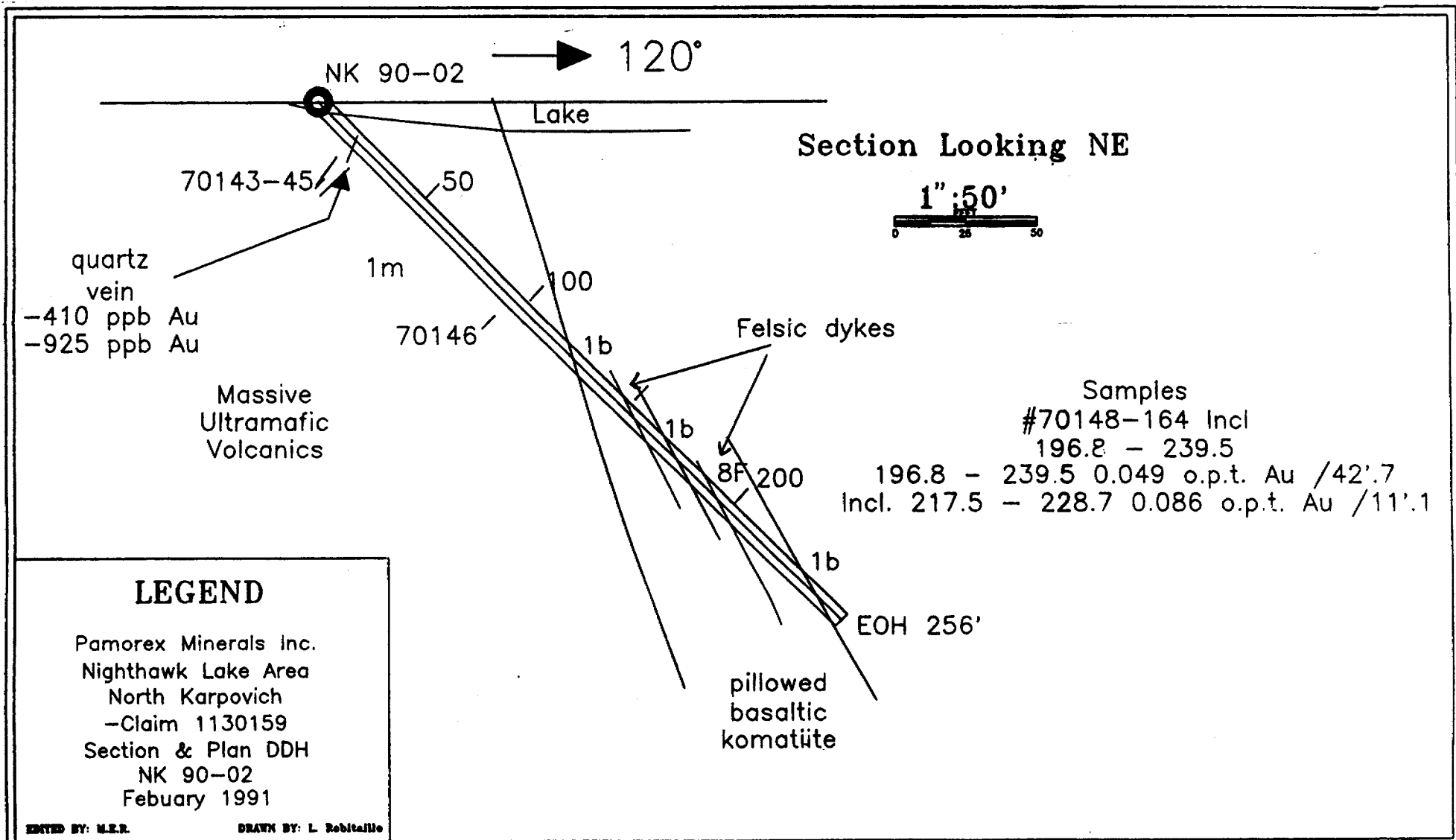
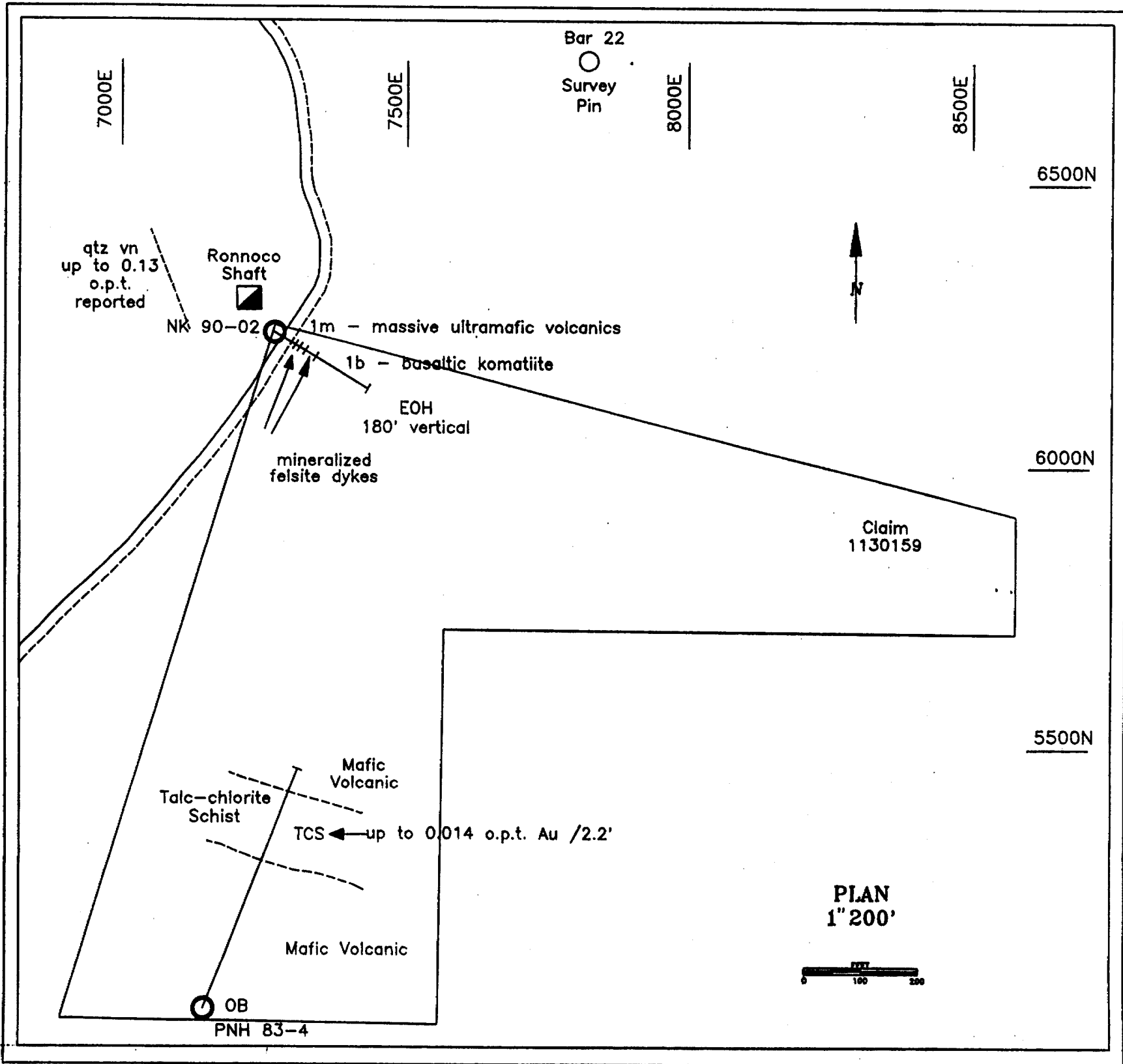
Sampling: A total of 65.4'(25.5%) of core was sawed and analysed for Au at Giant Yellowknife's Schumacher Laboratory. Significant results included 925 ppb (0.027 oz/t Au) from ultramafics immediately below a narrow quartz vein at 21.3-22.9' and mineralization in the felsite dyke as follows:

196.8 - 239.5 .049 oz/t Au over 42.7' intersected (11' TW)
Incl: 217.6 - 228.7 .086 oz/t Au/11.1' (3' TW)

Core/Rejects: All drill core is stored at the Hollinger core facility, Timmins. Sample rejects are also stored there for a minimum period of six months depending on space and project priorities.

Logged By D. Clarke

<u>FOOTAGE</u>	<u>LITHOLOGY</u>
0.0 - 5.5	Casing
5.5 - 126.0	Ultramafic - massive, strong ankeritic alteration, minor fuchsite and pyrite. 21.3 - 22.9 Quartz vein, 410 ppb Au, ultramafic immediately below quartz assayed 910 ppb Au.
126.0 - 157.6	Pillowed basaltic komatiite.
157.6 - 173.0	Felsite Dykes intruding basaltic komatiite - 70% dyke material.
173.0 - 195.0	Basaltic komatiite
195.0 - 243.6	Felsite Dyke - strongly brecciated, moderately silicified. Sharp contacts. Numerous quartz carbonate veins 2-20%, 1-5% Pyrite. Spotty chloritic alteration. 196.8 - 239.5 0.049oz/t Au 42.7' int width (approx 11' TW) Including: 217.6-228.7 0.086oz/t Au/ 11.1' (approx 3' TW)
243.6 - 256.0	Basaltic komatiite.
256.0	EOH



LEGEND

Pamorex Minerals Inc.
Nighthawk Lake Area
North Karpovich
-Claim 1130159
Section & Plan DDH
NK 90-02
Febuary 1991

EDITED BY: M.E.R. DRAWN BY: L. Robitaille

Norex Drilling Limited

Telephone (705) 235-2222
Fax (705) 235-2806

P.O. Box 88 - Porcupine, Ontario P0N 1C0

DUPLICATE

July 4, 1990

Invoice #P90706

PAMOREX MINERALS INC.
CODY TOWNSHIP

FOR THE PERIOD - JUNE 20 - 28/90

HOLE #NK-90-01. Casing 16'

296' x \$13.75	4,070.00
1 x 10' BW Casing x \$104.00	104.00
3 x 2' BW Casing x \$32.00	96.00
1 BW Casing Shoe x \$125.00	125.00
1 BW Casing Cap x \$25.00	25.00

HOLE #NK-90-02. Casing 6'

256' x \$13.75	3,520.00
3 x 2' BW Casing x \$32.00	96.00
1 BW Shoe x \$125.00	125.00
1 BW Casing Cap x \$25.00	25.00

INVOICE TOTAL:

\$ 8,186.00

THANK YOU

PEO COPY

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE RECOVERY	FEET CASED	ANGLE
	FROM	TO				

Drill No. _____

Contract PANOREX No. _____ DATE JUNE 25 1990

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME								
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING		
JEAN NOEL DESJARDIN		R	8													
Michel DUSIAUME		H	4													
REMARKS <u>Bring DRILL + Sloop To SET UP</u>				DRILL HOURS												
				TRACTOR HOURS												
				SUPPLIES TO BE CHARGED TO COMPANY												
				FUEL		GALS.										
				OIL		QTS.										
				CEMENT-KIND		BAGS										
				MUD-KIND		BAGS										
				CASING SIZE		FEET										
				SIZE		FEET										
				DIAMONDS												
				SIZE		TYPE		BIT NO.		REASON FOR CHARGE						
LENGTH OF WATER LINE				FEET												
DISTANCE MOVED				FEET												
TESTS _____ AT _____				FEET												
_____ AT _____				FEET												

FOREMAN _____ APPROVED _____ COMPANY REPRESENTATIVE _____

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		FEET METRES	CORE RECOVERY	FEET CASED	ANGLE
	FROM	TO				
NK-90-01	0	4.87			4.87	BW
	4.87	10.97	6.09			
	10.97	67.97				

Drill No. _____

Contract PAMOREX No. _____ DATE June 26 1990

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME									
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING			
Jean Noel Desjardins		R	10														
Michel Ducharme		H	10														
Michel Richard		RF	10														
Marc Villeneuve		H	10														

REMARKS
 WENT TO SHOP PICK UP
 PLASTIC SUCTION, CHANGE CUPS
 IN SUPPLY PUMP, SET UP SUPPLY &
 WATER LINE 150 FT, RMA CASING 2 FT.

DRILL HOURS
 TRACTOR HOURS

SUPPLIES TO BE CHARGED TO COMPANY			
FUEL	GALS.		
OIL	QTS.		
CEMENT-KIND	BAGS		
MUD-KIND	BAGS		
CASING SIZE	FEET		
SIZE	FEET		

hard drilling
 pull rods at 223 change bit

DIAMONDS			
SIZE	TYPE	BIT NO.	REASON FOR CHARGE

LENGTH OF WATER LINE 150 FEET
 DISTANCE MOVED _____ FEET
 TESTS _____ AT _____ FEET
 _____ AT _____ FEET

FOREMAN _____ APPROVED _____ COMPANY REPRESENTATIVE _____

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		METRES	CORE RECOVERED	FEET CASED	ANGLE
	FROM	TO				
NK-90-01	67.97	90.22	22.25			
NK-90-02	0	1.83			1.83	BW
	1.83	4.88	3.05			
	4.88	65.84	60.96			

Drill No. _____

Contract Lansdown

No. _____

DATE June 27

19 90

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME										
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING				
<u>J. Desjardins</u>			10															
<u>M. Duclaux</u>			10															
<u>M. Richard</u>			10			1												
<u>M. Villeneuve</u>			10															

REMARKS	DRILL HOURS	TRACTOR HOURS
<u>Pull Rods - Move Drill</u>		
<u>Add 900' to Waterline</u>		

REMARKS	SUPPLIES TO BE CHARGED TO COMPANY	
<u>Casing left in hole</u>	FUEL	GALS.
<u>1 BW Cap.</u>	OIL	QTS.
	CEMENT-KIND	BAGS
	MUD-KIND	BAGS
	CASING SIZE	FEET
	SIZE	FEET
	DIAMONDS	
	SIZE	TYPE
	BIT NO.	REASON FOR CHARGE

<u>Supply ran out of fuel</u>																		
<u>had to prime</u>																		
LENGTH OF WATER LINE																		
DANCE MOVED																		
TESTS AT																		
AT																		

FOREMAN _____ APPROVED _____ COMPANY REPRESENTATIVE _____

N Norex Drilling Ltd.

FOREMAN'S DAILY REPORT

HOLE NO.	DRILLED		METRES	CORE RECOVERED	FEET CASED	ANGLE
	FROM	TO				
NK-90-01	273	296				
NK-90-02	65.84	78.03	12.19			

Drill No. _____

Contract Samour

No. _____ DATE June 28

19 90

NAME	FEET	RATE PER HOUR	Total Time	CONTRACT TIME				COST PLUS TIME										
				DRILLING & PIPING	REPAIRS	DOWN TIME	MOVING	PIPING	CEMENTING	DRILLING CEMENT	TESTS	WATER LINE	MOVING	PULLING CASING				
J.N. Desjardins		8	4				8											
M. Ducharme		8	4				8											

REMARKS

DRILL HOURS
TRACTOR HOURS

Casing left in hole

SUPPLIES TO BE CHARGED TO COMPANY

1 BW Cap.

FUEL	GALS.		
OIL	QTS.		
CEMENT-KIND	BAGS		
MUD-KIND	BAGS		
CASING SIZE	FEET	1 1/2	<i>3x2' BW</i>
SIZE	FEET		<i>1 BW Cap</i>

Pulled Bigg Out.

HOLE COMPLETED AT 78.03 (256')

DIAMONDS

SIZE TYPE BIT NO. REASON FOR CHARGE

1 BW 5/8"

LENGTH OF WATER LINE FEET

DISTANCE MOVED FEET

TESTS AT FEET

AT FEET

FOREMAN _____

APPROVED _____

COMPANY REPRESENTATIVE _____

APPENDIX 2

Assay Certificates & Conversions (ppb to o.p.t.)

All determinations completed in duplicate using fire assay of IAT samples.

GIANT YELLOWKNIFE MINES
 CERTIFICATE OF ANALYSIS

DATE: July 6/90

PATOREX - PROJECT #604

	SAMPLE NUMBER	Au ppb	Au ppb				
1	C-70126	50.					
2	27	< 35					
3	28	< 35					
4	29	< 35					
5	30	< 35					
6	31	< 35					
7	32	< 35					
8	33	190					
9	34	635					
10	35	375					
11	36	< 35					
12	37	480					
13	38	1060	960				
14	39	< 35					
15	40	< 35					
16	41	< 35					
17	42	< 35					
18	43	< 35					
19	44	410					
20	45	925					
21	46	< 35					
22	47	190					
23	48	600					
24	49	1580	1610				

Chief Chemist: 

GIANT YELLOWKNIFE MINES
 CERTIFICATE OF ANALYSIS

DATE: July 6/90

PANDREX - PROJECT #604

	SAMPLE NUMBER	Au ppb	Au ppb				
1	C-70150	1510	1580				
2	51	1340	1400				
3	52	735					
4	53	155					
5	54	2640	1990				
6	55	550					
7	56	2880	2500				
8	57	2500	2400				
9	58	3390	3800				
10	59	720					
11	60	1300	1300				
12	61	995	925				
13	62	3290	2950				
14	63	135					
15	64	<35					
16							
17							
18							
19							
20							
21							
22							
23							

Chief Chemist: 

NORTH KARPOVICH

SAMPLE #	ASSAYS PPB		AVERAGE	CONVERSION TO opt
70126	50		50	0.001
70127	35		35	0.001
70128	35		35	0.001
70129	35		35	0.001
70130	35		35	0.001
70131	35		35	0.001
70132	35		35	0.001
70133	190		190	0.006
70134	635		635	0.018
70135	375		375	0.011
70136	35		35	0.001
70137	480		480	0.014
70138	1060	960	1010	0.029
70139	35		35	0.001
70140	35		35	0.001
70141	35		35	0.001
70142	35		35	0.001
70143	35		35	0.001
70144	410		410	0.012
70145	925		925	0.027
70146	35		35	0.001
70147	190		190	0.006
70148	600		600	0.017
70149	1580	1610	1595	0.046
70150	1510	1580	1545	0.045
70151	1340	1400	1370	0.040
70152	735		735	0.021
70153	155		155	0.004
70154	2640	1990	2315	0.067
70155	550		550	0.016
70156	2880	2500	2690	0.078
70157	2500	2400	2450	0.071
70158	3390	3800	3595	0.104
70159	720		720	0.021
70160	1300	1300	1300	0.038
70161	995	925	960	0.028
70162	3290	2950	3120	0.090
70163	135		135	0.004
70164	35		35	0.001

APPENDIX 3

Alpha-Numeric Geology Legend

Timmins - Kirkland Lake Area

ALPHA-NUMERIC GEOLOGY LEGEND

FOR

GEOLOGICAL COMPILATIONS

TIMMINS - KIRKLAND LAKE

MAY 1989

P. COAD

LEGEND

1 KOMATIITIC VOLCANICS

1	Unsubdivided
1s	Serpentinized, massive, polysutured, peridotitic komatiite
1ox	Olivine-spinifex textured peridotitic komatiitic flows
1px	Pyroxene-spinifex textured basaltic komatiitic flows
1mb	Massive basaltic komatiite
1m	Massive
1p	Pillowed
1c	Carbonated peridotitic komatiite
1t	Talcose
1b	Basaltic komatiite
1cb	Carbonated basaltic komatiite

2 THOLEIITIC VOLCANICS

2	Unsubdivided
2m	Massive
2p	Pillowed
2a	Amygdaloidal
2ap1	Amygdaloidal pillow lava
2v	Variolitic
2t	Tuff, lapilli-tuff
2b	Breccia
2c	Carbonated
2pb	Pillow breccia
2h	Hyaloclastite
2F	Dominantly Fe-tholeiite
2M	Dominantly Mg-tholeiite
2ag	Agglomerate
2am	Amphibolitized
2scf	Spherulitic, chicken-feed

F Denotes High Fe-Tholeiite
M Denotes High Mg-Tholeiite

3 CALC-ALKALIC MAFIC VOLCANICS

3	Unsubdivided
3m	Massive
3p	Pillowed
3a	Amygdaloidal
3t	Tuff, lapilli-tuff
3b	Breccia
3c	Carbonated
3am	Amphibolitized

4 CALC-ALKALIC FELSIC VOLCANICS

4	Unsubdivided
4m	Massive
4t	Tuff, lapilli-tuff
4s	Schistose
4b	Breccia
4r	Rusty-weathering
4c	Carbonated
4p	Porphyritic, qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
4T	Dominantly tholeiitic composition

5 SEDIMENTS

5	Unsubdivided
5a	Argillite
5c	Conglomerate
5g	Greywacke
5s1	Slate
5p	Porphyritic, qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
5d	Debris flow
5q	Quartzite
5qw	Quartz wacke
5gr	Graphite
5ch	Chert
5ag	Agglomerate
5t	Tuff
5s	Siltstone

K Denotes Keewatin
T Denotes Timiskaming

6 ULTRAMAFIC INTRUSIVE ROCKS

6	Unsubdivided
6s	Serpentinized diorite-peridotite
6ph	Pyroxene-hornblende
6c	Carbonated
6tm	Talc-magnesite

7 MAFIC INTRUSIVE ROCKS

7	Unsubdivided
7g	Gabbro
7qg	Quartz gabbro
7pg	Pegmatoidal gabbro
7i	Lamprophyre
7ib	Intrusive breccia

8 FELSIC INTRUSIVE ROCKS

8	Unsubdivided
8qp	Quartz porphyry
8fp	Feldspar porphyry
8qfp	Quartz feldspar porphyry
8f	Felsite, p (porphyritic), qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
8hbt	Hornblende-biotite trendjemite
8pm	Porphyritic monzonite
8pg	Porphyritic granodiorite
8lg	Leucocratic granodiorite
8hd	Hornblende diorite
8qd	Quartz diorite
8d	Diorite
8p	Porphyry
8a	Aplite
8s	Syenite
8g	Granite <u>or</u> quartz-rich syenite
8t	Trachyte

9 MATACHEWAN DIABASE

10 GOWGANDA FORMATION

10a	Arkose
10w	Wacke
10arg	Argillite
10c	Conglomerate

11 QUARTZ DIABASE

12 OLIVINE DIABASE

IRON FORMATION

IFo	Oxide
IFs	Sulphide
IFc	Carbonate

SULPHIDES

MS	Massive Sulphides
SMS	Semi-Massive Sulphides

OXIDES

Mt	Magnetite (80-100%)
----	---------------------



42A07NW8464 63.6098 CODY

900

OMTP 90-90

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

WORK REPORT # 35 CODY TWP (W.9006.60417) LOGS FOR 90-1+2

WORK REPORT # 37 " " (W.9006.60518) LOGS FOR 90-1+2

NIGHTHAWK LAKE
APPLICATION FOR DESIGNATION

NAME:

Nighthawk Lake

TARGET:

Gold

LOCATION & ACCESS:

Approximately 15 miles east of Timmins, Ontario.
Cody and Macklem Township.
Porcupine Mining Division.
Accessible by boat on Nighthawk Lake or by a gravel road leading south from Highway #101.

CLAIMS & LEASES:

The property includes two separate claim blocks. The western portion comprises a contiguous block of 34 unpatented claims totalling approximately 1360 acres. The eastern portion includes two contiguous unpatented claims totalling approximately 40 acres.

AGREEMENTS:

The western block is subject to an agreement between Pamorex Minerals Inc. (the Operator) and Mintek Resources Ltd. whereby Pamorex may earn up to an 85% interest in the claims by incurring certain expenditures and making certain payments. The original vendors of this block will retain a royalty interest.

The eastern block is held 100% by Pamorex subject to certain royalties payable to the original vendors.

GEOLOGY:

As part of the Abitibi greenstone belt, the area is underlain primarily by Archean metavolcanics and metasediments cut by intrusive rocks with a wide range of compositions. Most rocks have been metamorphosed to greenschist facies.

Geology of the property is poorly known since most is covered by the waters of Nighthawk Lake or clay overburden. The Nighthawk Lake Break traverses the area in an easterly direction. This structure may be a splay off the Destor-Porcupine Fault, a major break which is spatially related to many of the gold deposits in the Timmins area. Rocks on either side of the Nighthawk Break include mafic to ultramafic volcanic flows and associated sediments. Several gold occurrences are located along the Nighthawk Break.

EXPLORATION RESULTS:

Until recently, no systematic exploration was conducted on the property although a few short holes were drilled for assessment purposes. As part of a larger survey, the property was covered by an airborne geophysical survey commissioned by Pamorex in 1989. Pamorex drilled two holes totalling 2000 feet in late 1989/early 1990. No significant gold has been discovered on the property to date.

The claims are located a short distance from the Nighthawk Lake deposit, also held by Pamorex, where a mineral inventory of 1.6 million tons grading 0.17 opt gold has been established.

WORK PROGRAM:

The program anticipated includes mapping, geophysics and diamond drilling designed to test geophysical targets and to establish stratigraphy and the possible presence of the Nighthawk Break. Details and cost estimates are included within Form 0148 (05/90).

DATE OF PROGRAM:

May 3, 1990 through December 31, 1990.

MAJOR REFERENCES:

Leahy, E.J.

1971; "Nighthawk Lake Area, Cochrane District, Ontario"
ODM Geological Report No. 96

Pyke, D.R.

1982; "Geology of the Timmins Area, Ontario"
OGS Geological Report No. 219

