GOLD DISCOVERY

on the property of

POMINEX LTD.

Macklem Township, Ontario

Timmins, Ontario,
May 22, 1984.

R. J. Bradshaw, P. Eng.
Geologist.

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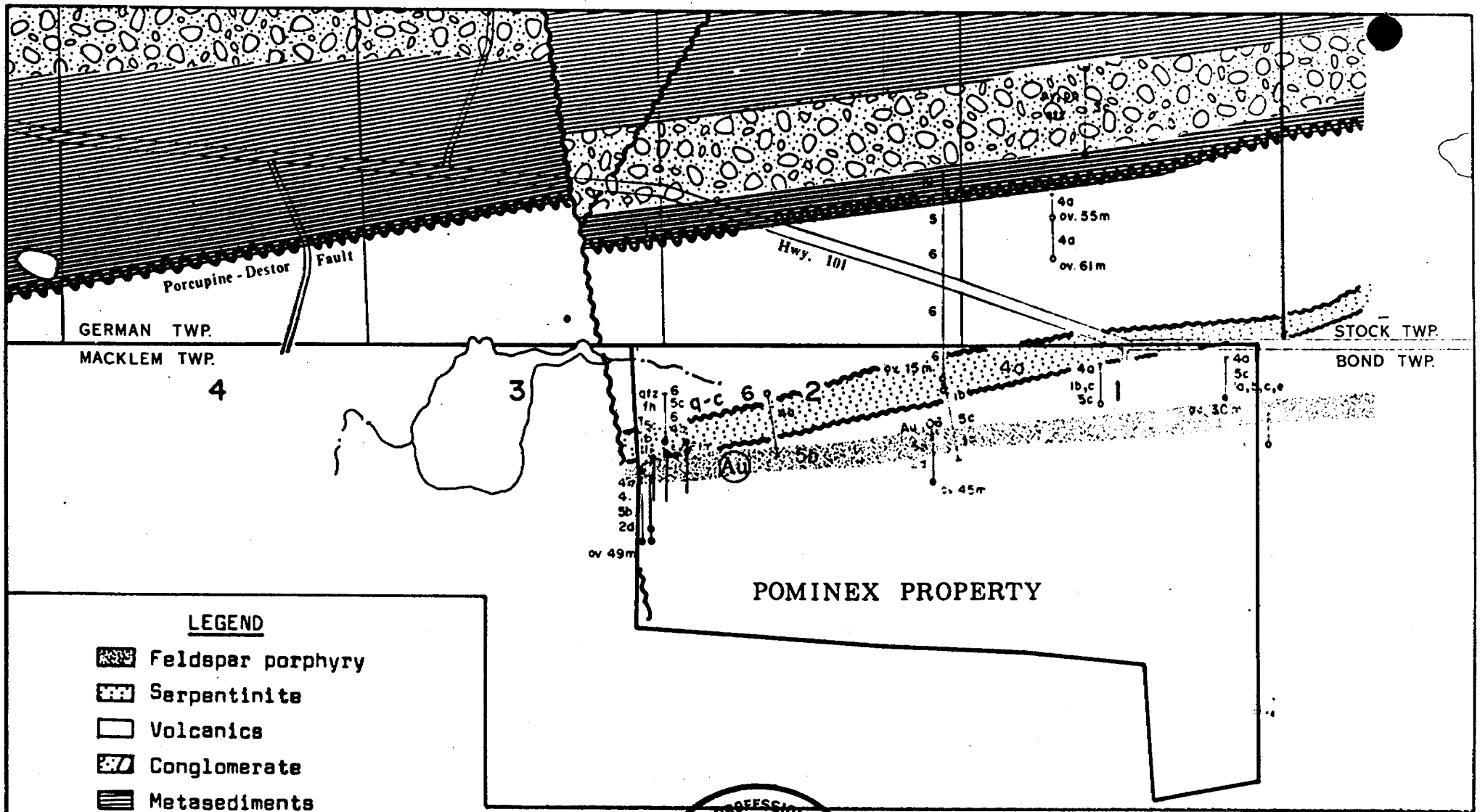

REGISTERED PROFESSIONAL ENGINEER
R. J. BRADSHAW
PROVINCE OF ONTARIO

May 23. 84

POMINEX LTD.

General Geology of the
Macklem Twp. Property Area

Scale 1 : 15,000

May 1984

Figure 1A

SUMMARY

During the period December, 1983, to mid-April, 1984, Pominex Ltd. drilled 14 holes totalling 10980 feet on the Macklem Township property, 24 miles east of Timmins, Ontario. Twelve holes were drilled along the west boundary of the property. Holes 83-1 and 84-7 were drilled in the northeast and centre of the property, respectively.

Of the twelve holes along the west boundary, nine drilled a gold-bearing felsic feldspar porphyry dyke. A remarkably high proportion of the 200 foot wide dyke contains uniformly low but highly anomalous gold values ranging from 0.02 to 0.10 oz. of gold per ton. The various gold intersections apparently form three or more discrete zones, including a main central zone interspersed with high grade concentrations generally associated with visible gold. These zones appear to conform with the easterly strike of the dyke and dip near vertically.

There is evidence for considerable length of these gold zones. An Asarco drill hole 1200 feet west of the Pominex boundary intersected 34 feet averaging 0.045 oz. gold per ton which appears to represent the central zone. The porphyry has been drilled for a length of 400 feet on the Pominex property. Intersections in three holes average 0.245 oz. gold for 210 feet over a true width of 27 feet. The most easterly hole intersected a true width of 49 feet averaging 0.036 oz. Typical intersections of subsidiary parallel zones include 0.114, 0.111, and 0.066 oz. gold per ton over true

widths of 18, 26 and 11 feet respectively.

The better gold values and widths appear to occur at or below the 575 foot level.

Gold is associated with obscure zones of silicification containing about 1 per cent pyrite and 10 per cent or less quartz stringers. Higher gold values occur with intense fracturing, particularly obvious within the central main gold zone. Although the mineralization associated with the gold is not well defined, dimensions of gold-bearing rock are impressive. It is expected that future drilling will provide data for a better understanding of the gold deposition and enhance this promising discovery.

Further drilling is, therefore, recommended. Up to 30,000 feet of drilling and perhaps more will be required to evaluate the gold deposition on the property. In order to facilitate periodic evaluation of the drilling results, it is proposed that the programme be undertaken in stages of 10,000 feet. It is estimated that each stage will cost $260,000. for a total of $780,000. if the entire programme is completed.

INTRODUCTION

Gold mineralization was discovered on the Pominex property in a drill hole completed in January, 1984. This hole was part of a programme of 14 holes, nine of which encountered gold mineralization.

The following report is concerned with the results of that drilling and proposals for additional work on the property to evaluate the gold mineralization.

In conjunction with Company management, the writer personally supervised and planned the project.

PROPERTY, LOCATION AND ACCESS

The property consists of nine contiguous patented claims, totalling 369 acres, numbered P25554 to P25562 inclusive.

Situated in the northeast corner of Macklem Township, the claim group is 38 kilometres east of the City of Timmins.

Highway 101 from Timmins is immediately north of the property. The Gibson Lake road running south from highway 101, about one kilometre west of the Pominex property, intersects a tractor road about 1.5 kilometres south of highway 101. This tractor road provided access to most of the drilling sites.

PREVIOUS WORK

In 1981 Asarco, owner of the property immediately west of Pominex, completed a series of overburden holes in the search for anomalous gold in the bedrock till. One of these holes, 81-11,

encountered highly anomalous gold in the bedrock talus on the mutual Asarco-Pominex boundary. Hole 84-2, the Pominex discovery hole, was subsequently drilled north, immediately below overburden hole 81-11.

Prior to the start of the drill programme a magnetic survey (November, 1983) was completed on the Pominex property which basically outlined the south dipping ultramafic body striking at 070° through the northern sector of the claim group.

DIAMOND DRILL PROGRAMME

General

In late 1983, hole 83-1 was drilled in the extreme north-east sector of the property to investigate an area at the nose of a prominent magnetic anomaly representing ultramafic rock. Shearing and faulting trending east-northeast was expected to be confined to the ultramafic rock. The target area was, therefore, anticipated to be sheared and faulted perhaps within a more competent rock. In fact, as indicated by hole 83-1, the sheared ultramafic simply narrowed substantially within the target area. Intermediate to mafic volcanics, lacking significant mineralization, enclose the ultramafic body.

Discovery hole 84-2 commenced drilling on the west boundary of the property, just south of overburden hole 81-11, in mid-January of 1984. Gold mineralization present in a feldspar porphyry is associated with zones of fracturing and alteration. While waiting for assay returns, hole 84-3 was completed and 84-4A

was started forming a north-south section along the Asarco-Pominex boundary.

Holes 84-5 and 6 were drilled 30 metres east of hole 84-2. Although the favourable feldspar porphyry host rock was intersected, assay results were less impressive than in hole 84-2.

A review of previous work indicated that in 1944, Broulan Reef had encountered low gold values over narrow widths within felsite in a hole drilled from north to south near the centre of the property. It was assumed that the felsite was in fact feldspar porphyry and that the hole had not fully intersected the porphyry. It was, therefore, decided to investigate this area for the presence of the gold mineralization in the feldspar porphyry. In the meantime, holes 84-2, 5 and 6 were reviewed in order to determine the most favourable locations for additional drilling in the vicinity of the discovery.

Hole 84-7 over 750 metres (½ mile) east of hole 84-2 confirmed the presence of the feldspar porphyry, of similar width, with scattered low gold values.

The review of previous drilling suggested that more representative results might be forthcoming by drilling from north to south. At the same time because such holes would essentially be drilling down dip within the feldspar porphyry, the potential of the host rock would be evaluated much quicker.

Holes 84-8 and 10 were, therefore, drilled south in the same section as 5 and 6, 30 metres (100 feet) east of hole 84-2.

Both holes provided better results than 5 and 6, particularly 84-8 which intersected a width of 85 feet (26 metres) assaying 0.328 oz. per ton (uncut).

Similarly, holes 84-9 and 11 were drilled north to south 30 metres (100 feet) east of the section including holes 84-5, 6, 8 and 10. Comparitively mediocre results in these two holes perhaps is caused by a fault, subsequently indicated by hole 84-14.

Holes 84-12 and 13 were drilled south on a section 60 metres (200 feet) east of 84-9 and 11. These holes generally confirmed the presence of significant gold values over substantial widths.

Throughout the drill programme it seemed apparent that the better gold concentrations occurred at or below a depth of about 175 metres (575 feet). Hole 84-14 was, therefore, located in the same section as holes 84-9 and 11 to intersect the host rock deeper. Apparently because of a cross fault, hole 84-14 remained within the volcanics in the footwall of the feldspar porphyry.

Summary of Diamond Drilling

Hole No.	Location	Direction (Ast.)	Dip	Depth (feet)
83-1	Line 1+00W 1+40 South	North	50°	550
84-2	Line 16+60W 5+20 South	North	50°	973
84-3	Line 16+60W 3+40 South	North	50°	808
84-4 abandoned	---	North	50°	---
84-4A	Line 16+03W 2+53 South	North	55°	746
84-5	Line 16+30W 4+99 South	North	50°	743
84-6	Line 16+30W 5+24 South	North	50°	835
84-7	Line 9+00W 3+60 South	North	50°	700
84-8	Line 16+30W 3+04 South	South	61°	750
84-9	Line 16+00W 3+00 South	South	61°	981
84-10	Line 16+30W 3+04 South	South	50°	694
84-11	Line 16+00W 3+00 South	South	50°	577
84-12	Line 15+40W 2+94 South	South	61°	750
84-13	Line 15+40W 2+59 South	South	61°	877
84-14 Casing left in hole	Line 16+00W 2+60 South	South	61°	996
			Total footage	10980
			metres	3347.6

Drilling Programme, Cost and Problems

The diamond drilling was contracted to Norex Drilling and Bradley Bros., both of Timmins. Norex started the programme and drilled the first seven holes and holes 9 and 11. Having completed their contract and experiencing cost overruns they decided to leave the project. Bradley Bros. drilled holes 84-8, 10, 12, 13 and 14. Thus, for a period of time, two drills were used on the property.

Norex drilled 6336 feet at a cost of $19.36 per foot. Bradley Bros. drilled 4644 feet at a cost of $20.28 per foot. Overall cost of drilling was, therefore, $19.75 per foot or $64.79 per metre.

Only hole 84-4 was lost because of deep overburden. Considering the excessive depth of overburden the drillers, particularly Norex, performed very well.

Norex experienced excessive diamond costs because of the extraordinary hardness of the felsic feldspar porphyry.

GEOLOGY

Regional Geology

The rocks which underlie the Pominex property are stratigraphically equivalent to the Tisdale Group, an assemblage of mainly volcanic rocks which to the west host a number of profitable gold deposits. Similarly to the west the Porcupine-Destor fault is genetically, if not spatially, associated with these gold deposits.

Apparently confined to an ultramafic body on the Pominex property, a structure termed the Aquarius fault, striking 070°, eventually merges to the east with the Porcupine-Destor fault striking about 080° just north of the Pominex property.

North of the Porcupine-Destor fault and the Pominex property is a wide section of clastic sediments.

The Asarco gold mine, 2.6 kilometres to the west of the Pominex property, recently commenced production.

Local Geology

The geology of the Pominex property, within a regional setting, is displayed on Figure 1A; and a plan of diamond drilling, figure 1, shows the typical stratigraphy.

As indicated by a magnetic survey (November, 1983), the most striking feature on the Pominex property is an apparently conformable ultramafic body which strikes easterly and dips south at about 70°. A drill section formed by holes 84-2, 3 and 4A confirms the ultramafic body and provides additional geological information.

Hole 84-4A was abandoned in a fault zone composed of partially dissolved clay minerals which appears to be generally conformable to the attitude of the rock assemblage. This fault zone, which would reach the suboutcrop in the extreme northwest of the property, is followed to the south by a narrow section of talc chlorite schist about 45 feet (14 metres) wide. In turn the schist is followed by a narrow felsic dyke about 30 feet (9 metres) wide,

intersected in both holes 84-3 and 4A. This dyke, containing quartz stringers and up to 4% pyrite, but without significant gold values, appears to be generally conformable to the enclosing rocks.

To the south the dyke is in contact with a carbonate, sericite or chlorite, talc rock which is schistose in part and 60 feet (18 metres) wide.

Intersected in both holes 84-3 and 4A, a mainly carbonate rock follows to the south. It varies from 74 feet (22 metres) in hole 84-3 to 138 feet (42 metres) wide in hole 84-4A. Considerable irregular quartz veining and minor crystalline pyrite is present in this rock, particularly in hole 84-4A. Albite, sericite and fuchsite mineralization is also present. Significant gold values, however, are lacking.

The carbonate rock is followed to the south by the above mentioned magnetic, sheared and schistose ultramafic rock. About 330 feet (100 metres) wide, it is typically blue-black and serpentinized but locally has characteristics of a serpentinized volcanic. This unit appears to form the loci for the major movement in the area which, to the west, coincides with the Aquarius fault.

South of the ultramafic body is a unit about 100 feet (30 metres) wide which includes serpentinized massive and schistose ultramafic rock and altered mafic volcanics of various types. This unit forms the footwall of a generally conformable gold-bearing felsic porphyry dyke.

Drilling by Asarco to the west and Dome to the east (personal communications) indicates that the porphyry strikes at 080° for some distance beyond the property boundaries. About 200 feet (60 metres) wide the unit dips near 70° to the south. The existence of sharp contacts and numerous inclusions of recognizeable pillow lava, which forms the hanging wall of the porphyry, are evidence for its intrusive nature.

In general, this light grey to green rock is very hard and aphanitic with scattered feldspar phenocrysts. The variable colour appears to be influenced by ground water leaching, variation of hydrothermal activity, and minor chloritization with intense fracturing. Mineralization and structures associated with gold values are described under Economic Geology.

The hanging wall pillow lava is more than 330 feet (110 metres) thick. Minor structures, including amygdaloidal selvages, are remarkably well preserved in this unit particularly away from the porphyry contact.

Numerous narrow intermediate to mafic dykes, generally less than 10 feet (3 metres) wide, cut the above described sequence of rocks.

ECONOMIC GEOLOGY

General

About 2.6 kilometres to the west of the Pominex discovery, Asarco has commenced mining in a carbonate rock which contains ir-

regular quartz stringers and veins with free gold. This unit corresponds with the carbonate rock intersected in holes 84-3 and 4A north of the ultramafic body. However, significant gold values were not encountered in the Pominex drilling.

Since discovery of the gold deposit by an overburden drill hole, Asarco has covered most of their large property at intervals of 400 to 800 metres (¼ to ½ mile). A line of four holes extending westerly from the Pominex boundary for a length of about 1130 metres (about ¾ mile) formed part of the Asarco programme. Samples of the till from each of these holes returned anomalous gold. Diamond drill hole 84-2 by Pominex showed that the gold is derived from a feldspar porphyry. Similarly, Asarco drilled at 400 and 800 metre (¼ and ½ mile) intervals from the Pominex boundary and encountered the feldspar porphyry immediately north of the anomalous overburden holes. In three holes the best gold value is 0.045 oz. per ton over 34 feet at a vertical depth of 530 feet (160 metres).

Based on a regional study a major north-northwesterly trending fault is interpreted to be situated at the joint boundary between Asarco and Pominex. This right-handed fault, displacing east side units south several hundred feet, may correspond to the fault depicted on Figure 1. Alternatively, the fault on Figure 1 may be subsidiary to the main structure. Although the main break crosses the major Porcupine-Destor fault, there is not yet any definite evidence that it is genetically related to the distribution of gold values in the feldspar porphyry.

Mineralization of Gold Zones in Feldspar Porphyry

Mineralization associated with gold values is not easily recognized because of the comparitively minor variations of alteration and also the substantial widths which may include several boxes of core. A re-examination of hole 84-8 which provided the best gold values reveals the following.

A section of 47 feet (14.3 metres) from 650 to 697 feet contrasts with the immediate wallrock. It is dominantly but irregularly silicified and has substantially more quartz stringers, totalling about 10 per cent, than the adjoining rock. The colour varies from grey-white from silicification to a darker grey where chlorite-filled fractures have permeated the silicified zone. Within the zone a slightly increased amount of pyrite as euhedral grains or smears along fractures probably averages about 1%. Local rusty weathering of the pyrite from ground water circulation is notable considering the depth. A chlorite-quartz filled fault near the centre of the zone may or may not be associated with the gold values. An affinity for pyrite is indicated by gold replacing euhedral pyrite in a quartz stringer. This characteristic is also apparent elsewhere.

Of ten samples, all but one 5 feet wide, seven assayed from 0.03 to 0.086 oz. per ton, two assayed 0.026 and 0.014 respectively, and one assayed 4.79 oz. over 5 feet.

Both sides of the silicified fracture zone display effects of hydrothermal activity. For about 40 feet (12 metres)

on either side, the rock is bleached to a light grey-green colour and partially silicified. The rock is more massive and has less pyrite and fewer fractures than the main silicified fracture zone. Within this halo zone, gold values range from 0.02 to 0.10 oz. gold per ton, except for 10 feet not assayed. This form of grey-green alteration elsewhere in the hole also contains significant gold values.

Structure of Gold Zones in Feldspar Porphyry

Gold in the feldspar porphyry may be associated with pyritized silicification but more often is associated with fracturing, with and occasionally without silicification. Fractures may be filled with white quartz up to about a foot wide, very thin seams of chlorite, pyrite, or graphite. Where fractures are quartz-filled the gold is present in euhedral pyrite; where the fractures form a shatter zone or breccia the gold is smeared on a fracture surface and generally not visible. Three sets of fractures within individual gold zones are recognizeable.

Perhaps because of the drill hole attitudes the set which is most prominent strikes easterly and dips 50 to 55° north. This fracture set is often filled with quartz and displays little movement.

A second set occasionally filled with quartz but more often chloritic or carbonaceous is conformable with the attitude of the dyke, striking easterly and dipping about 68° south.

Finally a third uncommon set strikes easterly and dips 80 to 85° north. It is generally chlorite-filled, up to 2 feet wide with rusty pyrite, and displays shearing characteristics. This set corresponds with the inferred attitude of the individual gold-bearing zones.

At least one other fracture set is likely present but there is insufficient drilling data to identify its attitude.

Distribution of Gold Zones

A comparitively limited amount of diamond drilling over a length of 400 feet indicates the presence of one main central gold-bearing zone and one or more parallel subsidiary zones within the central portion of the dyke. This relationship is best displayed on Figure 2, derived from the drill sections.

Again, limited data suggests that the individual gold zones strike easterly conformable to the porphyry dyke and dip vertically or steeply north. Within the area of drilling a cross fault displaces the dyke and apparently individual gold zones.

Various widths of gold mineralization are shown on the drill sections ranging from about 5 to 85 feet (1.5 to 26 metres). Because of the wide variance in gold values over exceptional widths, establishing a particular width in a drill hole is a somewhat subjective exercise dependent upon rock mineralization as well as gold content in individual samples. Lacking a defineable barren wallrock, widths can only be established after considerable drilling has been undertaken. Similarly at this stage establishing

a cut grade, based on experience elsewhere, may be misleading.

Nevertheless, some impressive intersections are displayed on the drill sections including 0.159 oz. over 41.2 feet (12.6 metres) in discovery hole 84-2; 0.328 oz. over 85 feet (26 metres) in hole 84-8; 0.111 oz. over 30 feet (9 metres) and 0.036 over 88 feet (27 metres) in hole 84-13. These and other intersections are located over a length of 400 feet (122 metres), between the sub-outcrop and about 575 feet (175 metres) below surface.

Assuming a near vertical dip, individual mineralized zones range from 3 feet (1 metre) to 50 feet (15 metres) in true thickness. At the 575 foot level (-175 metres) the main zone, apparently continuous for at least 210 feet (64 metres) and 27 feet (8 metres) wide, averages 0.245 oz. gold per ton (uncut). Some other true widths at this elevation include 0.114 oz. over 18 feet, 0.111 oz. over 26 feet, 0.036 oz. over 49 feet, and 0.066 oz. over 11 and 16 feet respectively.

CONCLUSIONS

1. A gold-bearing felsic feldspar porphyry dyke, about 200 feet (60 metres) wide, strikes 080° across the Pominex property for over a mile. Diamond drilling has confirmed that the porphyry contains significant gold values for a length of 400 feet (122 metres) on the Pominex property and 1200 feet (366 metres) on the Asarco property.

2. Within the porphyry a central main gold mineralized zone ranges between 27 and 49 feet (8 and 15 metres) wide over the total

length of 1600 feet on the Asarco and Pominex property. Only one Asarco hole 1200 feet from the common boundary is evidence for the continuity. Parallel subsidiary zones of lesser widths are also present.

3. Diamond drill results suggest that greater concentrations of gold occur at or below the 575 foot (175 metre) level.

4. At the 575 foot level where three holes have been drilled over a length of 210 feet (64 metres) the main zone averages 0.245 oz. gold per ton (uncut) over an average true width of 27 feet (8 metres). Considered representative of the main zone is a true width of 49 feet (15 metres) averaging 0.036 oz. located 200 feet (60 metres) east and a true width of 32 feet (10 metres) averaging 0.045 oz. 1200 feet (366 metres) west on the Asarco property.

   Typical true width intersections of subsidiary zones at the 575 foot level include 0.114 oz. over 18 feet, 0.111 oz. over 26 feet, and 0.066 oz. over 11 and 16 feet respectively. In many cases a reduction in width would enhance the average grades.

5. Typically, the core of the main gold zone is silicified, grey-white in colour, fractured, and contains about 10 per cent quartz stringers and 1 per cent partially oxidized pyrite. If present, higher concentrations of gold are preferentially located within this zone. Although the higher concentrations

of gold are considered to be associated with fracturing, it is not yet apparent which of three recognizeable sets is most important.

A light grey-green, partially silicified, rather obscure halo alteration adjoins the central mineralization. It is more massive with fewer fractures and less pyrite than the central core but, nevertheless, contains similar low gold values.

6. Inasmuch as it is not yet known which of three sets of fractures is most important for gold deposition, the preferred attitude of drill holes is uncertain. If, however, the gold zones dip near vertically, vertical holes will not likely provide representative results.

7. Some impressive gold intersections alternate with comparitively mediocre indications. Such results are normal for most gold deposits. Probably most significant is the uniformly low (.02 to 0.10 oz.) but highly anomalous gold content of wide sections in the feldspar porphyry. Only the odd higher concentration of gold within these sections is required to categorize these zones as potential ore.

Much additional diamond drilling will be required to determine the economic viability of a mining operation on the Pominex property.

RECOMMENDATIONS

It is recommended that sufficient funds be allocated to provide for diamond drilling on the property in three stages of

10,000 feet each. This is likely to be a minimum requirement if results from such a programme were generally positive throughout.

Depending upon results, interruption of the drilling between stages may or may not be necessary. However, it would be prudent to execute drill contracts of 10,000 feet or less so that the programme may be evaluated periodically.

Hole 83-14, the last hole of the previous programme, did not reach its objective. However, the casing was not removed so that the hole could be re-entered at a future date. Initially, drilling should commence at this location which might involve one or more wedges to intersect the projected gold zone at different levels. Additional drilling from south to north should also be contemplated at specific locations in order to acquire more information on the fracture pattern and determine the most favourable attitude for drilling.

Cost of the programme is estimated as follows:

Stage One

Drilling 10,000 feet at $21 per foot	$210,000.
Supervision, engineering and sampling	30,000.
Assaying	10,000.
Contingencies	10,000.
	$260,000.

Each additional stage of 10,000 feet is anticipated to cost about the same amount. The entire 30,000 feet of drilling if completed is, therefore, estimated to cost $780,000.

Respectfully submitted,

SHIELD GEOPHYSICS LIMITED,

Timmins, Ontario,
May 22, 1984.

R. J. Bradshaw, P. Eng.,
Geologist.

CERTIFICATE

I, Ronald J. Bradshaw, residing at R. R. 2, Airport Road, Timmins, Ontario, a consulting geologist with office at R. R. 2, Airport Road, Timmins, Ontario, do hereby certify that:

I attended Queen's University, Kingston, Ontario, and graduated with an Honours B.A. degree in Geological Sciences in 1958.

I am a Fellow of the Geological Association of Canada, a Member of the Canadian Institute of Mining and Metallurgy and of the Association of Professional Engineers of Ontario.

I have no direct or indirect interest in the property, shares or securities of Pominex Ltd. nor do I expect to receive any such interest.

Timmins, Ontario,
May 22, 1984.

R. J. Bradshaw, P. Eng.,
Geologist.

REFERENCES

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November, 1983
Magnetic Survey on the Pominex Macklem Township Property

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1971
Geology of Nighthawk Lake Area O.D.M. Report 96

Aquarius Project
(Aserco) 1983
Plan & Sections of Drilling

L E G E N D

7 Aplite

6 Feldspar Porphyry

5 Carbonate, Sericite or Chlorite, Talc Rock

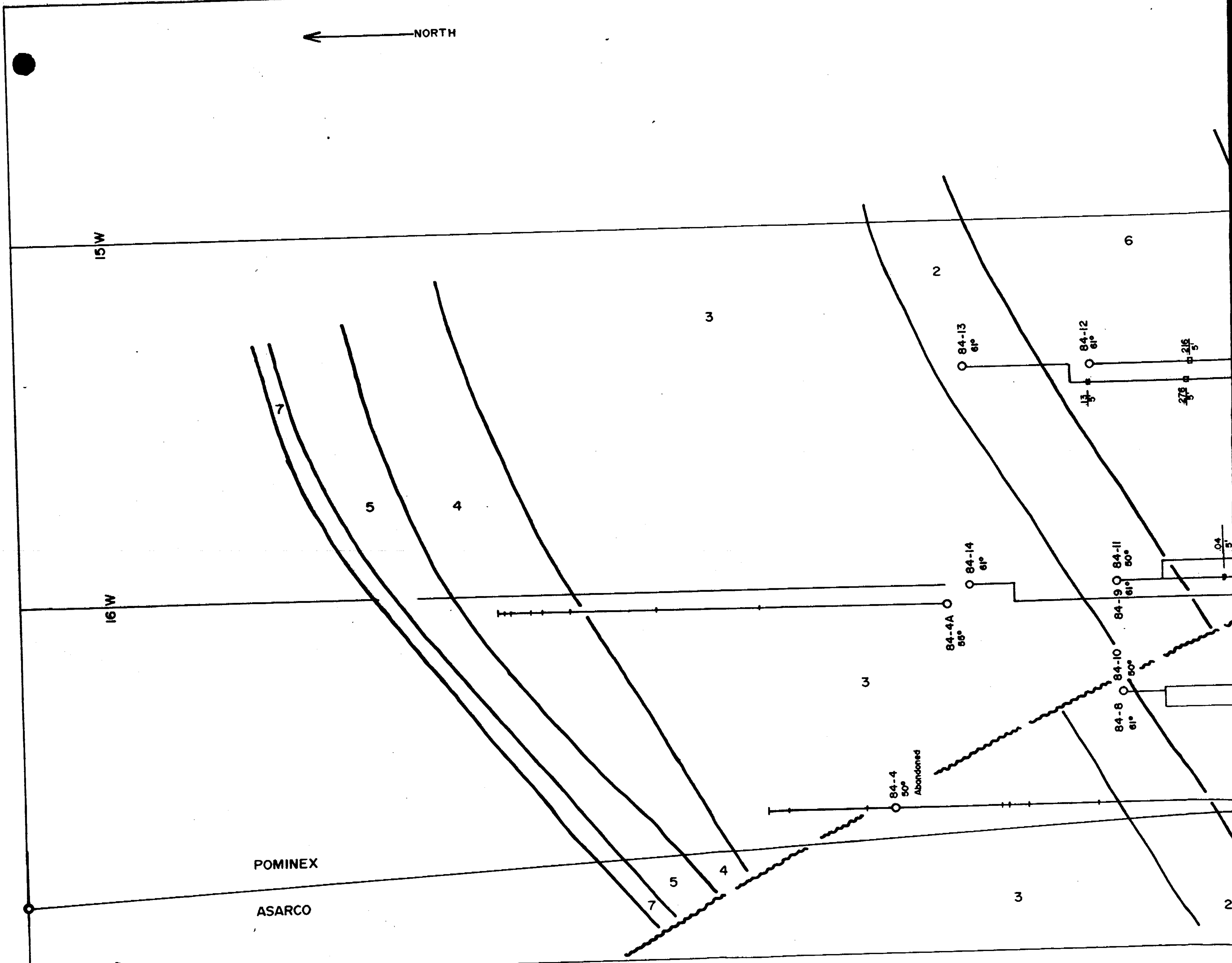
4 Carbonate - Quartz Rock

3 Ultramafic Rock (Serpentine)

2 Mafic to Ultramafic Volcanics

1 Felsic to Intermediate Pillow Lava

Re: Figures 1 to 7



NORTH
15W
16W
84-13
61°
84-12
61°
84-14
61°
84-11
50°
84-9
61°
84-4A
55°
84-10
50°
84-8
61°
84-4
50°
Abandoned
POMINEX
ASARCO

POMINEX LTD.

DRILL HOLE PLAN & GEOLOGY

AT SURFACE (Hole 2) -50 METRES

0 20 40 metres

1 : 100

MAY, 1984

Figure 1

May 23. 84

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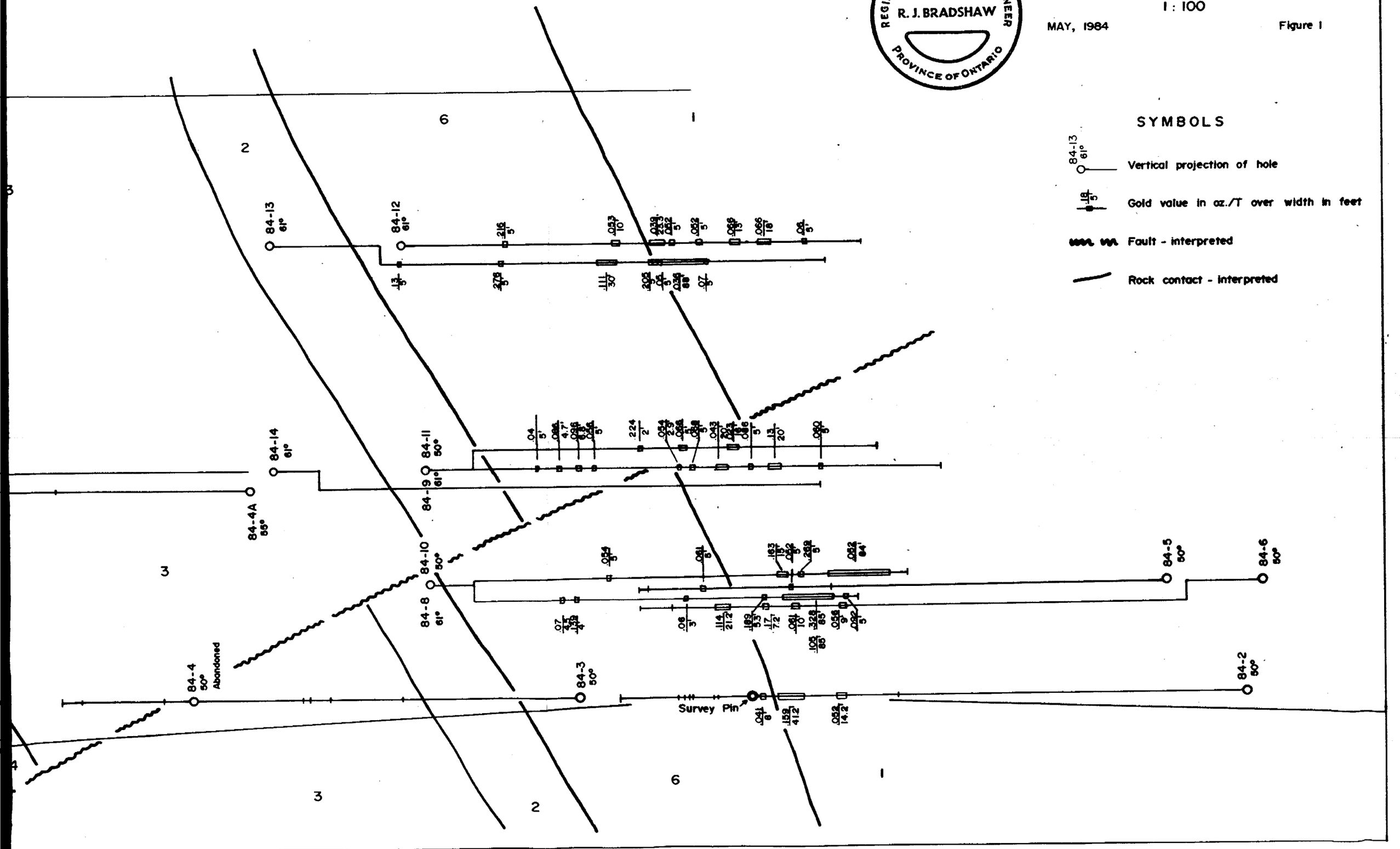
SYMBOLS

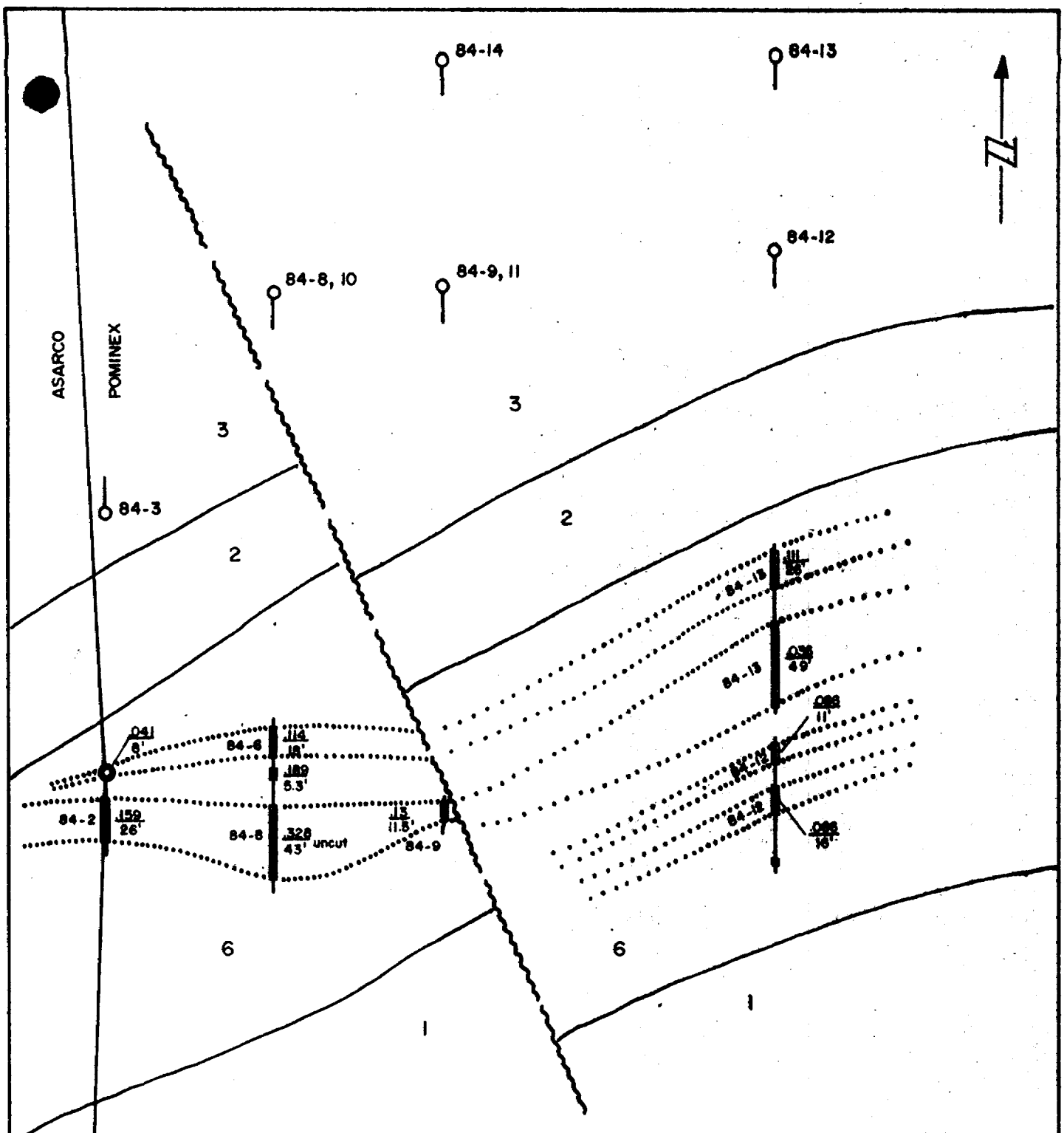
84-13 61° — Vertical projection of hole

.18/5' — Gold value in oz./T over width in feet

Fault - interpreted

Rock contact - interpreted





SYMBOLS

111/26' Gold value in oz/T over approx horizontal width in feet

84-6 Diamond drill hole No.

::::: Gold mineralized zone

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May 22.84

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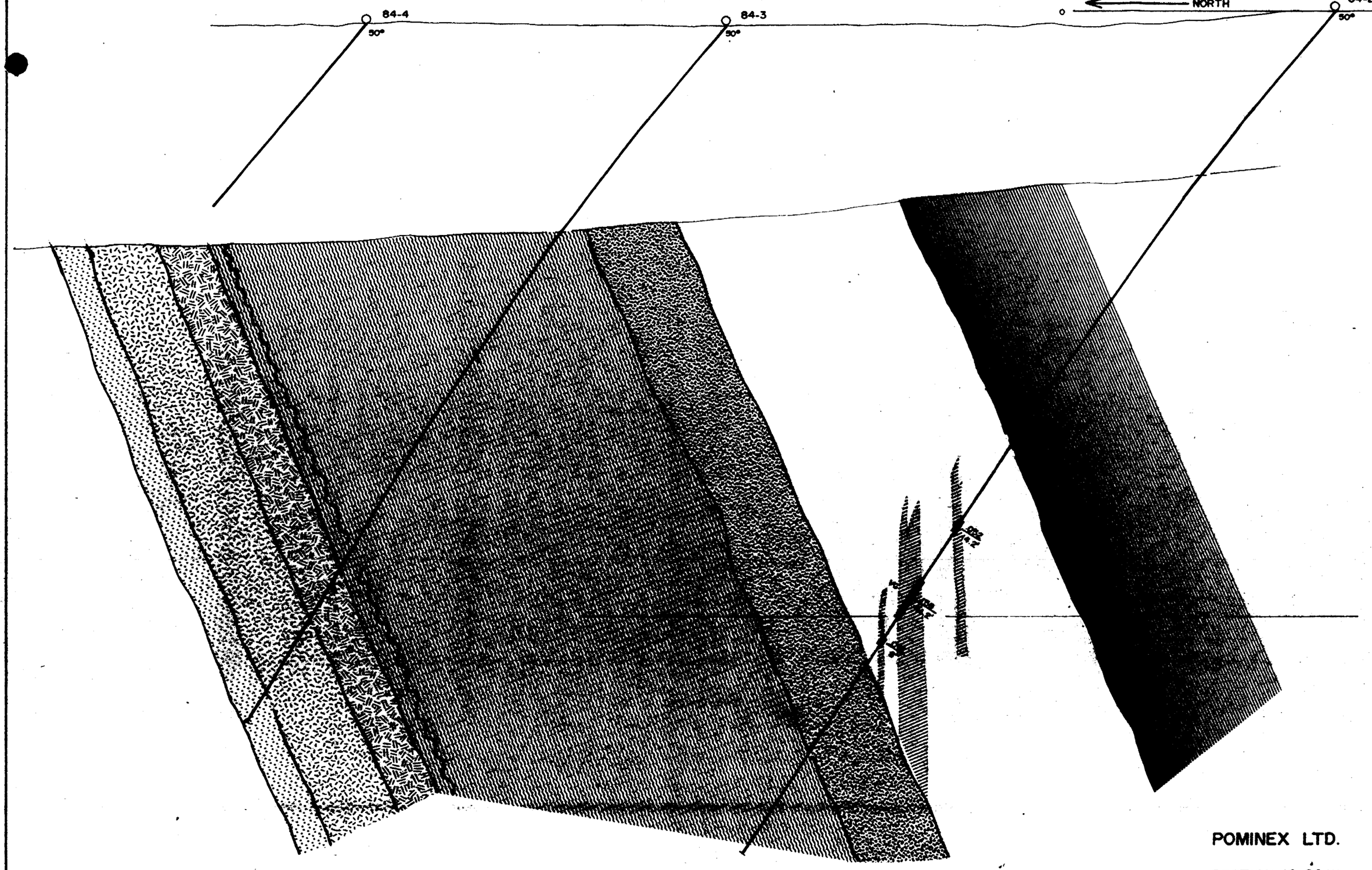
GEOLOGY & GOLD VALUES

PLAN: -175 METRES

1 : 100

Figure 2



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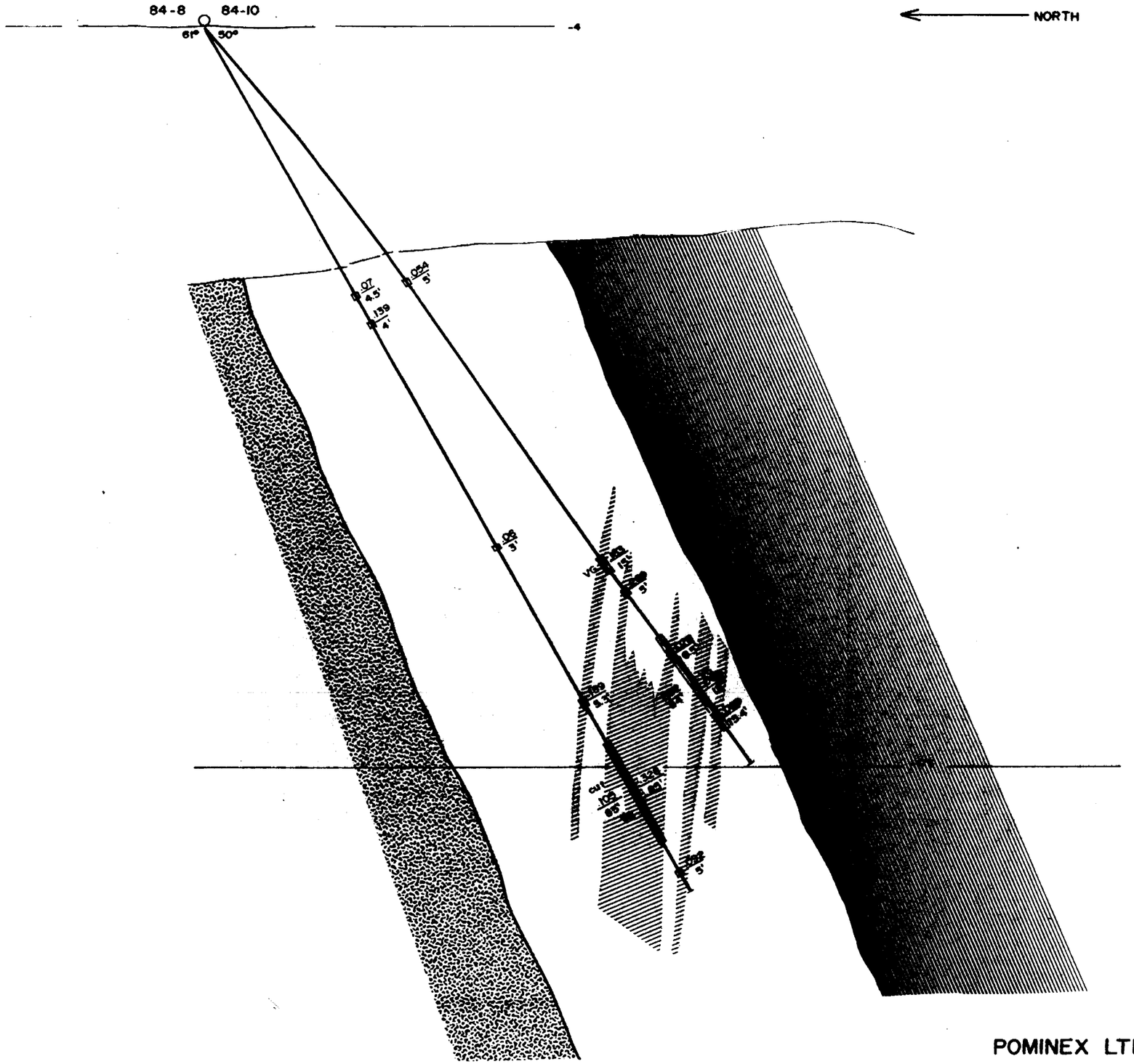
SECTION 16+60 W

1 : 100

Figure 3

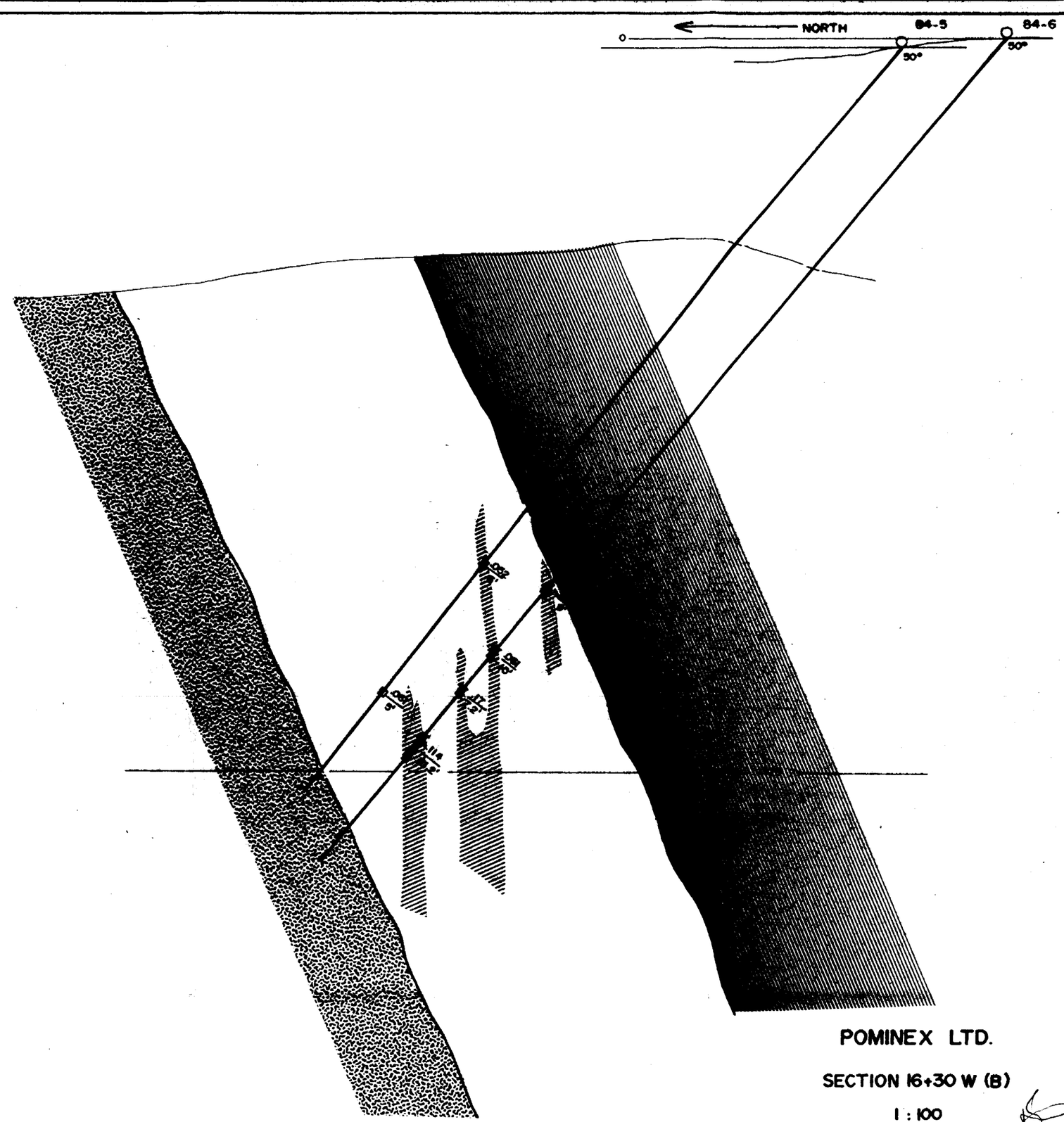


POMINEX LTD.

SECTION 16+30 W (A)

1 : 100

Figure 4

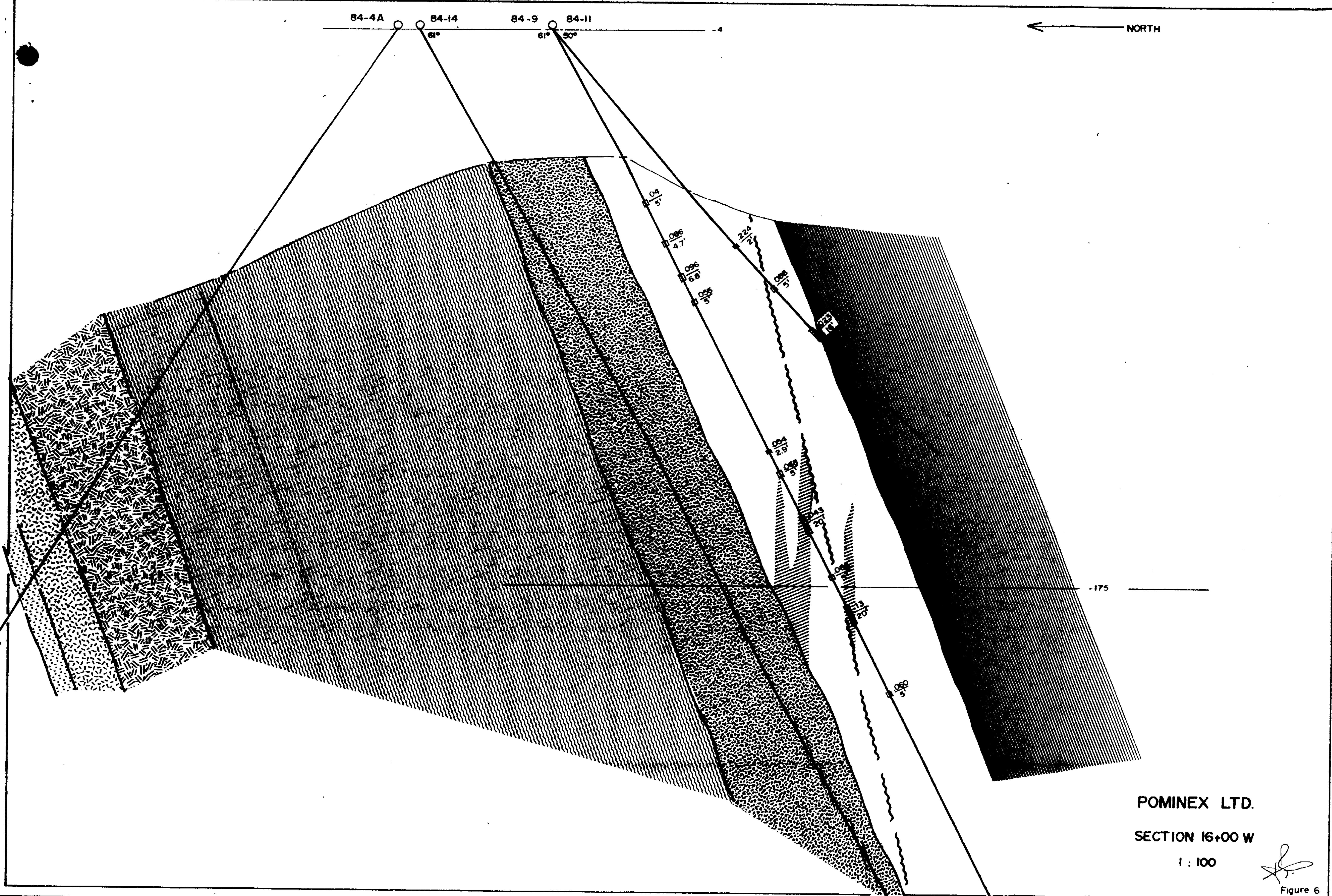


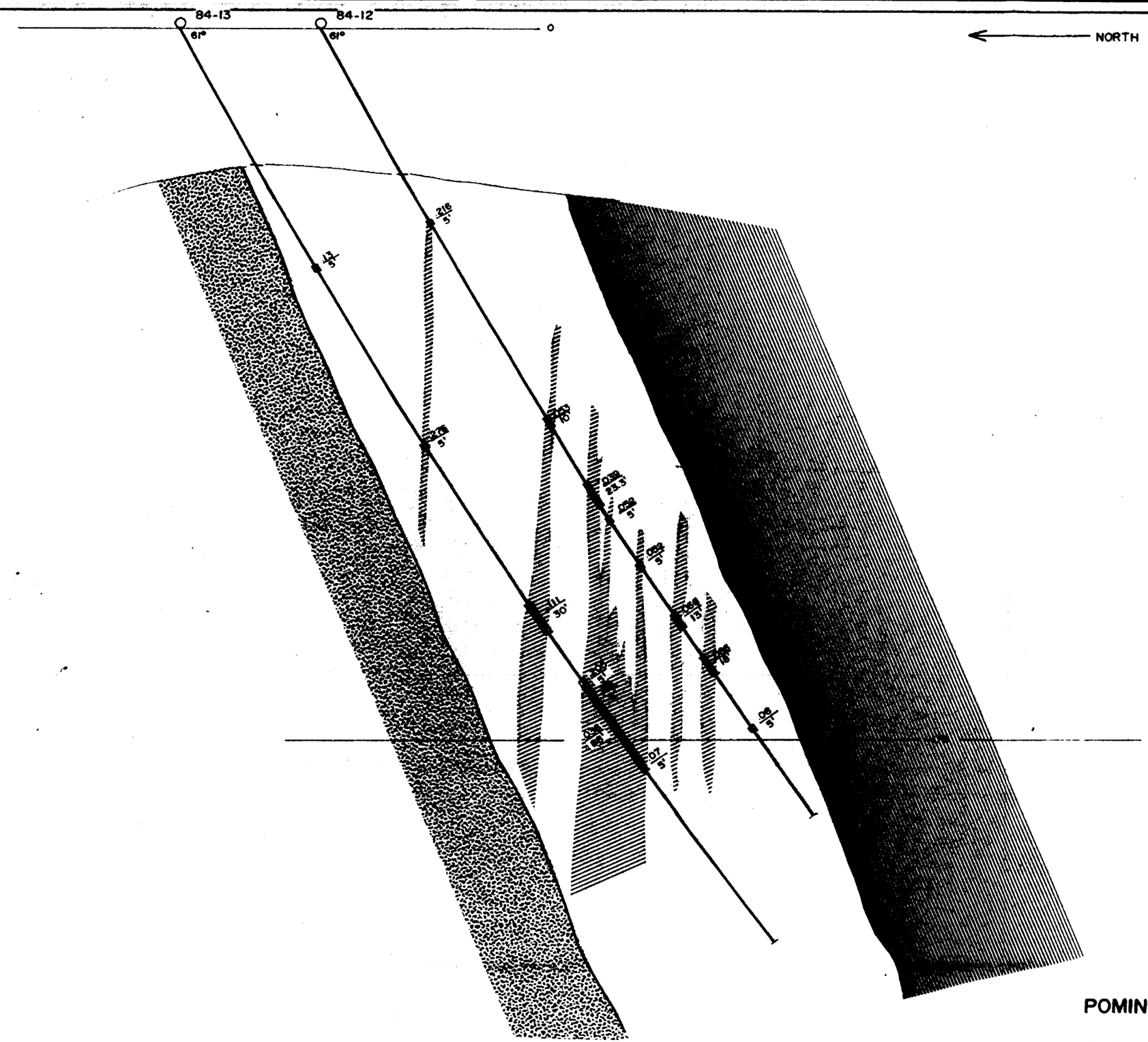
POMINEX LTD.

SECTION 16+30 W (B)

1 : 100

Figure 5


84-4A
84-14
84-9
84-11
61°
61°
50°
-4
NORTH
-175
POMINEX LTD.
SECTION 16+00 W
1 : 100
Figure 6



POMINEX LTD.

SECTION 15+40 W

1 : 100

Figure 7

OM83-5-C-246
OM83-5-C-283

APPENDIX

Diamond Drill Logs

Holes 83-1 to 84-14

DIAMOND DRILL RECORD

PROPERTY PDMINEX LTD. HOLE NO. 83-1

TOWNSHIP Macklem Township PAGE NO. 1

LOCATION Line 1+00W
Station 1+40 South
(metric grid)

ELEVATION

CORE LOCATION MNR Timmins

DATUM

BEARING North (ast.)

DIP 50°

STARTED December 16, 1983

COMPLETED December 21, 1983

DEPTH 550 feet
AQ core (1 1/16")

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
0 - 141	Casing (overburden).						
141 - 198.3	Intermediate to Mafic Pillow Lava &/or Flows:						
	medium to pale green, v.f. gr., lightly fractured						
	and partially carbonatized; flows & pillows marked						
	by vesicles and dark green chloritized interfaces;						
	some epidote; fractures filled by barren quartz and						
	carbonate.						
	153.4-154.4 grey vuggy qtz @ 50° to c.a.						
198.3 - 230	Intermediate to Mafic Volcanic Flow Breccia:						
	dark green massive mafic sections up to 2' with						
	pale green sections of angular fractured inter-						
	flow material; dark blue mafic sections and						
	fractures are serpentinized.						
230 - 238	Felsic (Aplite) Dyke: massive aphanitic, very						
	hard, siliceous rock; conchoidal fracture except						
	where low angle secondary cream coloured fractures						
	occur.						
238 - 246.5	Mafic Volcanic Flow: dark green, massive, v.f.gr.						
	lightly fractured.						

Drilled By Norex

Signed

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 83-1

TOWNSHIP _____ PAGE NO. 2

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
246.5 - 274.9	Intermediate Agglomerate (Pyroclastic Breccia): pale green, masses ranging from 3" to 3'; some may be pillows, upper contact at 30°; some carb in fine gash fractures, black mafic contact zones; becoming more lightly packed deeper.						
274.9 - 322.9	Intermediate Volcanic Flow: pale green, v.f.gr., more massive except for prevalence of serpentine-filled gash fractures near top perhaps representing flow top.						
	288.0 becoming more massive						
	308.0 becoming less massive with pale green irregular masses perhaps representing bombs						
322.9 - 334.3	Intermediate Volcanic Breccia: upper contact at 45°, pale green fragments with soft black serpentine filling gash fractures and interstices, very intense brecciation at start; rock becomes softer deeper.						
	314.7 2' grey irreg. qtz stringer						

Drilled By _____

Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 83-1

TOWNSHIP _____ PAGE NO. 3

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
334.3 - 370.5	Ultramafic: black, fairly soft, massive except						
	for irregular carbonate-filled fractures; probable						
	intrusive periodite although upper contact						
	gradational.						
	366.4-368.3 soft, light grey-green talcose rock						
	366.8-368.0 core ground						
	369.8-370.3 light coloured xenolith ?						
370.5 - 400.5	Intermediate Volcanic: comprised of breccia of						
	flow material, agglomerate and pillows, gash						
	fractures filled by serpentine.						
400.5 - 409.3	Intermediate to Mafic Volcanic Flows: contact						
	poorly defined; medium green, fairly massive						
	with uniform fine dissemination of carb lathes.						
409.3 - 513	Intermediate Volcanic Breccia: comprised of flows,						
	agglomerate and pillows; pale green, v.f.gr.						
	dacitic pillows and fragments are extensively						
	fractured, gash fractures and interstices filled						
	by black serpentine; odd minor qtz and carbonate						
	stringer.						

Drilled By _____

Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 83-1

TOWNSHIP _____ PAGE NO. 4

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
	444.9-446.3 8" qtz-carb str. @ 45°, few grains	1-1	1.4	15			
	of py and cpy						
	455.0-482.0 minor brecciation of pillow lava						
	482.0-503.0 more intense brecciation; secondary						
	fractures filled with carb, qtz and						
	occasionally clay mineral						
513 - 550	Intermediate Amygdaloidal Pillow Lava: contact						
	sharp at 70° to c.a., med. green to brownish;						
	well defined pillows with variably sized green						
	amygdaloids in brownish matrix; some epidote,						
	few serpentine-filled fractures.						
	540.0 3" barren qtz-carb stringer @ 45°						
550	END.						
	Dip test @ 550' - 41°						

Drilled By _____ Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY POMINEX LTD. **HOLE NO.** 84-2

TOWNSHIP Macklem Township **PAGE NO.** 1

LOCATION Line 16+60W
Station 5+20 South
(metric grid)

ELEVATION

CORE LOCATION #34 Warehouse - Airport Road

DATUM

BEARING North (ast.)

DIP 50°

STARTED January 12, 1984

COMPLETED January 17, 1984

DEPTH 973'

BQ core (1 7/16")

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
0 - 200	Casing (overburden).						
200 - 512.8	Felsic to Intermediate Amygdaloidal Pillow Lava:						
	very hard, v.f.gr. dacitic pillows from 2 to 8'						
	with zoned globules in chloritic selvages of						
	pillows; lighter coloured amygdules ? up to ½" in						
	diameter; selvages at about 45° forming zones up						
	to 3' wide with chlorite, yellowish carbonate and						
	quench textures similar to spinifex.						
	264.5-270.0 diabase dyke, grey f.gr. massive;						
	brecciated upper contact						
	272.5- over 4" yellowish carbonate, some py						
	in pillow selvage section						
	300.0 pink albite adj. to grey carbonate						
	in selvage over 6"						
	from 280 pillows becoming smaller and more						
	tightly packed						
	302.5-307.0 irreg. fractures filled with grey						
	carbonate and rock altered to green						
	colour by fuchsite						

Drilled By Norex

Signed

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 84-2

TOWNSHIP _____ PAGE NO. 2

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz	Au/oz. reject ~~pulp~~ Swastika
	307.0-323.0 rock substantially softer					
	i.e. andesitic					
	339 little pyrite in gashes					
	419.0-422.0 ½" fractures @ 0° with carbonate-					
	hematite filling					
	468.0-512.8 darker, softer more mafic					
	487.0-488.0 1¼" carb str. @ 20° with py-cpy diss	2-1	1.0	15		nil .002
	498.0-500.0 breccia of mainly carbonate @ 35° to					
	c.a. with sharp contact					
	500.0-512.8 more fractures and pillows not					
	recognizeable; apparent silica					
	reduction					
512.8 - 760.0	Felsic Porphyry Dyke: grey to pale green, very					
	hard, aphanitic, fractured rock with scattered					
	white phenocrysts generally rectangular in shape--					
	probable feldspar; fractures generally tight and					
	serpentinized with smeared pyrite.					
	541.0-546.0 1" & 8" white qtz strs. at 35°,	2-2	5.0	487	.014	nil
	crushed py at contacts, less than 1%					
	euhedral pyrite diss. in dykes					

Drilled By _____ Signed _____

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 84-2

TOWNSHIP _____ PAGE NO. 3

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz	Au/oz.
	554.0	1" white qtz str. @ 35°					reject pulp
	560.5	½" white qtz str. @ 45°					Swastika
	567	3" dark green, soft, chloritic, mafic					
		xenolith					
	569.5-571.3	diabase or xenolith as above at 90°					
	597.8-602.0	4 - ½" qtz strs. @ 20°, 1% py in wlrk	2-3	4.2		.050	nil
	609.0-611.0	fault with mud and black serpentine					
		at 20°					
	621.0-692.0	many more feldspar phenocrysts in					
		grey matrix; also fractured at low					
		angle with dull white carb filling					
	665.0-666.5	2% pyrite with irreg. silicification	2-4	1.5	278	.008	nil
	677.0-681.0	numerous tight black fractures, less	2-5	4.0		.832	.28 .24
		than 1% pyrite					
	697.0-700.0	fractured with 1% pyrite	2-6	3.0		.372	.39 .40
	702.7-707.7	irreg. fractures with 1% pyrite	2-7	5.0		.116	.12 .14
	738	4" diabase at 80°					
	740.0-743.9	fractured, slight pyrite	2-8	3.9	670	.02	.03 .02
	743.9-751.0	diabase, massive					

Drilled By _____

Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 84-2

TOWNSHIP _____ PAGE NO. 4

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz	Au/oz. reject
	753.0 7" diabase					pulp Swastika
	753.7-754.9 1" clot of pyrite	2-9	1.2	18		.002
760.0 - 809.7	Diorite: dark grey or brownish, fine to very f.					
	grained, massive, rock which shows occasional well					
	defined banding at 45° to 70°; banding appears to					
	be secondary intrusion.					
	775.0-778.9 first 3" is black mafic volcanic	2-10	3.9	88		.002
	remnant, 1-2% diss. py throughout					
	778.2-780.9 mostly mafic volcanic, carbonatized					
	with gash fractures					
	782 7" dark green mafic volcanic					
	783.5-784.5 dark green mafic volcanic					
	792 4" dark green mafic volcanic					
809.7 - 813.0	Ultramafic Rock: grey-black, medium soft, numerous					
	irreg. carbonate filled fractures.					
813.0 - 848.6	Intermediate Volcanic Breccia: medium green,					
	totally fractured, v.f.gr. rock; gash type fractures					
	filled with darker material; odd ovoid forms of					
	hematized grey silica which seems to partially					
	surround bomb-like structures up to 2" which are					

Drilled By _____

Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 84-2

TOWNSHIP _____ PAGE NO. 5

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	totally fractured; little secondary epidote;						
	may represent edge of volcanic vent.						
	839.0-848.6 rock more massive; seems to be						
	composed of large explosive bombs						
	having slightly different composition						
	or perhaps pillows						
	835 carb-filled fault over 2" @ 35° to c.a.						
848.6 - 857.2	Intermediate Dyke: grey, v.f.gr. massive &						
	uniform except deeper fractures filled by epidote,						
	etc., upper contact is sharp.						
857.2-865.0	Ultramafic Intrusive: black, v.f.gr. soft highly						
	fractured rock; white carbonate fills fractures;						
	serpentinized.						
865.0 - 876.7	Talc-Clay Zone: grey-white, partially dissolved,						
	very soft, schistose rock at 45°, odd irreg. white						
	carbonate str. stands out, talcose to touch;						
	kaolinite likely present; probable fault.						

Drilled By _____ Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 84-2

TOWNSHIP _____ PAGE NO. 6

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
876.7 - 973.0	Ultramafic Rock: black, v.f.gr. soft and schistose						
	at about 50°; much white irreg. carbonate						
	possibly forming boundinage structures in otherwise						
	talcose matrix.						
	896.0 very soft and powdery over 2"						
	901 3" grey qtz-carbonate						
	902 2" grey qtz-carbonate						
	916.0-917.5 muddy and crushed						
	923.7 muddy sand for 8"						
	931.0-935.0 brownish serpentine ?						
	935.6 6" of mud						
	937.0-948.0 core lost						
	953.0-962.0 little more solid						
	964:0-966.0 core lost						
973.0	End.						
	Dip Tests						
	Depth True Angle						
	225' 55°						
	500' 57°						
	973' 57°						

Drilled By _____

Signed _____

SHIELD GEOPHYSICS LIMITED

ADDITIONAL SAMPLING

DIAMOND DRILL RECORD

PROPERTY POMINEX LTD. HOLE NO. 84-2

TOWNSHIP Macklem Township PAGE NO. 1

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH .....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	FELSIC PORPHYRY DYKE: phenocrysts are widely						
	scattered, fractures are all at low angle of						
	20-30° to c.a.						
	512.0-517.0 contact zone; contact at 80°	2-11	5.0	3			
	517.0-522.0 few chloritic & white fractures	2-12	5.0	2			
	522.0-527.0 as above	2-13	5.0	18			
	527.0-532.0 as above	2-14	5.0	34		532	
	532.0-537.0 as above & ¼" qtz str. @ 30°	2-15	5.0	576	.017		
	537.0-541.0 few fractures	2-16	4.0	210	.006		
	541.0-546.0 previously sampled	2-2	5.0	487	.014		
	546.0-551.0 few fractures	2-17	5.0	775	.023		
	551.0-557.0 few fractures & 1" qtz str. @ 70°	2-18	6.0	683	.02		
	557.0-562.0 few fractures, little py & ½" qtz str	2-19	5.0	605	.018	562	
	@ 20°						
	562.0-567.0 few fractures	2-20	5.0	192			
	567.0-572.0 few fractures & 2" diabase dyke	2-21	5.0	30			
	572.0-577.0 few fractures	2-22	5.0	7			
	577.0-580.0 6" diabase, few fractures	2-23	3.0	15			
	580.0-585.0 few fractures	2-24	5.0	25			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-2

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	585.0-590.0	2-25	5.0	18			
	590.0-595.0 few fractures	2-26	5.0	88			
	595.0-597.8	2-27	3.8	489	.014		
	597.8-602.0 previously sampled	2-3	4.2	1714	.05	.21	
	602.0-607.0 few fractures	2-28	5.0	437	.013	.065	.052 / 14.2'
	607.0-612.0 fault with mud & black serpentine	2-29	5.0	3154	.092	.46	
	612.0-617.0 few pink carbonate-filled fractures	2-30	5.0	34		.735	
	617.0-621.0 few fractures	2-31	4.0	122			
	621.0-626.0	2-32	5.0	7			
	626.0-631.0	2-33	5.0	207			
	631.0-636.0 actually 7' of core marker to marker	2-34	5.0	22			
	636.0-641.0 ¼" qtz str. //ing c.a.	2-35	5.0	49			
	641.0-646.0	2-36	5.0	10			
	646.0-650.0	2-37	4.0	5			
	650.0-657.0 2' serpentine fracture zone	2-38	7.0	40			
	657.0-662.0	2-39	5.0	88			
	662.0-665.0	2-40	3.0	254	.007		
	665.0-666.5 previously sampled	2-4	1.5		.01		666.5
	666.5-671.0 few white fractures	2-41	4.5		.034	.155	

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-2

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
671.0-672.7	very obscure visible gold smeared on	2-42	1.7		.389	.661	
	slip plane adj. to ½" qtz str. @ 30°;						
	broken core indicates possible fault						
672.7-677.0	+5' of core	2-43	4.3		.080	.344	
677.0-681.0	quarter split check sample	2-5	4.0		.832	3.328	.159 / 41.2'
681.0-686.0	obscure very fine gold on slip plane	2-44	5.0		.020	.100	
686.0-691.0		2-45	5.0		.022	.110	
691.0-697.0	few fractures, sli. pyrite	2-46	6.0		.018	.108	
697.0-700.0	previously sampled	2-6	3.0		.372	1.116	
700.0-702.7		2-47	2.7		.016	.043	
702.7-707.7	2% pyrite; previously sampled	2-7	5.0		.116	.580	
707.7-711.0	few fractures	2-48	5.0	82		6.545	707.7
711.0-716.0	few fractures	2-49	5.0	34			
716.0-722.0		2-50	6.0	25			
722.0-727.0		2-51	5.0	18			
727.0-732.0		2-52	5.0	754	.017		
732.0-735.0		2-53	3.0	1577	.046	.138	.041
735.0-740.0	3" diabase @ 80°	2-54	5.0	1303	.038	.19	8'
740.0-743.9	previously sampled	2-8	3.9	686	.02	.328	

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY POMINEX LTD. HOLE NO. 84-3

TOWNSHIP Macklem Township PAGE NO. 1

LOCATION Line 16+60W
Station 3+40 South
(metric grid)

ELEVATION

CORE LOCATION M.N.R. Timmins

DATUM

BEARING North (ast.)

DIP 50°

STARTED January 19, 1984

COMPLETED January 24, 1984

DEPTH 808'

Dip Tests: 260' - 56°
500' - 57°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
0 - 253	Casing (overburden).						
253 - 359	Ultramafic Intrusive: soft blue-black serpentinized and carbonatized; v. fine grained; white carbonate forms grains & fills gash fractures generally at 45°; first foot looks like massive mafic to intermediate volcanic in contact with ultramafic at 45°.						
	300.0-359.0 very soft, schistose & broken with sections of mud - fault						
	312.0-317.0 core lost						
	317.0-322.0 v. soft schistose mud composed of clay minerals						
	324.0-327.0 core lost						
	332.0-337.0 core lost						
	352.0-357.0 core lost						
359 - 389	Carbonatized & Serpentinized Volcanic: fault zone; med. grey, soft, fairly massive, in part schistose and broken, with much lost core.						
	363.0-367.0 core lost						

Drilled By Norex

Signed

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 84-3

TOWNSHIP _____ PAGE NO. 2

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	367.5-368.3 mud						
	372 3" carbonate stringer at 45°						
	373.0-374.0 core lost						
	381.0-382.0 soft and crumbly						
	382.0-383.0 core lost						
389 - 401	Mafic Dyke: lamprophyre or diabase; mafic, soft						
	dark minerals in hematitic matrix giving brownish						
	colouration; blotchy carbonatized clots, uniform						
	and massive, few chlorite-carbonate strs. at 40°.						
	402.0-404.0 core lost						
401 - 629	Faulted Ultramafic Rock: blue-black to grey,						
	schistose and broken, much carbonate in gash						
	fractures; talcose locally & serpentinized;						
	schistosity at 45°-90°; may be altered volcanic.						
	411.0-413.0 core lost						
	426.5 1" of green mud at 45°						
	428.5 2" irreg. white carbonate						
	434.0-437.0 core lost						
	450.0-452.0 core lost						

Drilled By _____ Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 84-3

TOWNSHIP _____ PAGE NO. 3

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	450.0-496.0 increasing number of white carbonate						
	strs. and darker colour						
	500 3" carbonate str. @ 60°						
	517.0-519.0 crushed rock						
	521.5-524.0 schistose rock						
	525.0-526.0 curved carbonate str. like selvage						
	of pillow						
	529.0-531.0 core lost						
	531.0-592.0 core broken & muddy after local						
	schistosity and faulting						
	572.0-576.0 core lost						
	585.0-587.0 core lost						
	591.0-592.0 core lost						
	592· generally schistose at about 45°;						
	much irreg. white carbonate						
	608 few cubes of pyrite						
	616.0-624.7 very soft, muddy schist which is						
	partially dissolved - main fault						

Drilled By _____

Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 84-3

TOWNSHIP _____ PAGE NO. 4

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
629 - 645	Carbonate-Chlorite Rock: grey mottled colour,						
	soft, massive to schistose locally, odd quartz-						
	carbonate stringer; minor sulphides.						
	634.0-635.0 2" qtz-carb str. @ 80° with	3-1	1.0	4			
	schistosity contains few grains of						
	siderite? and lead-like mineral						
645 - 684	Carbonate-Quartz Rock: irreg. white qtz veins						
	and strs. in med. grey carbonate rock with minor						
	albite, very minor fuchsite; sli. pyrite as large						
	cubes, slight siderite?						
	645-650 60% white irreg. qtz, 2% py as large	3-2	5.0	4			
	xstals						
	650-655 10% white irreg. qtz, 2% py as large	3-3	5.0	3			
	xstals						
	655-660 20% white irreg. qtz strs., 2% py	3-4	5.0	8			
	660-665 70% irreg. white qtz strs., some	3-5	5.0	5			
	albite, fuchsite, 2% pyrite						
	665-668.8 30% irreg qtz-albite str., sli. py,	3-6	3.8	4			
	fuchsite						

Drilled By _____

Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 84-3

TOWNSHIP _____ PAGE NO. 5

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb
	674-679	40% irreg. white qtz; albite in wlrk,	3-7	5.0	3
		some fuchsite, 1% py, minor cpy			
	678-684	30% qtz strs.; albite, fuchsite,	3-8	5.0	4
		carbonate wlrk with sli. py & cpy			
684 - 703	Carbonate-Fuchsite-Albite Rock: coarse grained,				
	green, fairly massive with qtz strs., 2% pyrite;				
	contacts gradational.				
	685-690	much fuchsite, 2% pyrite	3-9	5.0	10
	690-695	as above with 1" qtz str. //ing c.a.	3-10	5.0	3
	695-701	as above; 10% qtz strs.	3-11	6.0	4
703 - 764.7	Carbonate-Sericite-Talc Rock: med. grey, massive,				
	occasionally schistose and softer deeper.				
	710	some fuchsite			
	725-730	10% qtz str. @ 80° corresponds to	3-12	5.0	7
		schistosity with 1% pyrite			
	730-747.3	occ. 1-2" qtz-carb strs. with 80°			
		schistosity, 1% pyrite			
	747.3-764.8	more massive & becoming harder deeper			
		towards dyke contact			

Drilled By _____

Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 84-3

TOWNSHIP _____ PAGE NO. 6

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
	758.7-760.7 few qtz-carb strs., 3% xstalline-py	3-13	2.0	3			
	760.7-765 20% white irreg. qtz strs., 2%	3-14	4.3	11			
	xstalline pyrite						
764.7 - 798.5	Felsic (Aplite) Dyke: light pink, f. to med.						
	grained, massive, hard intrusive with generally						
	barren white qtz strs., 3-5% euhedral pyrite,						
	trace chalcopyrite.						
	765-770 20% qtz str., 3% pyrite	3-15	5.0	49			
	770-775 10% qtz str., 3% pyrite	3-16	5.0	59			
	775-780 50% qtz str., 4% pyrite	3-17	5.0	89			
	780-785 10% qtz str., 4% pyrite	3-18	5.0	96			
	785-790 10% qtz str., 4% pyrite	3-19	5.0	131			
	790-795 5% qtz str., 3% pyrite	3-20	5.0	138			
	795-798.5 10% qtz str., 4% pyrite	3-21	3.5	34			
798.5	END.						

Drilled By _____ Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY: POMINEX LTD. HOLE NO.: 84-4A

TOWNSHIP: Macklem Township PAGE NO.: 1

LOCATION: Line 16+03W
Station 2+53S

CORE LOCATION: M.N.R. - Timmins
DIRECTION: North (ast.)
DIP: 55°
DEPTH: 746'

STARTED: February 1, 1984
COMPLETED: February 5, 1984
DIP TESTS: 300'-58°; 500'-58°; 746'-59°

ELEVATION:

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
0 - 300	Casing (overburden).						
300 - 307	Core ground.						
307 - 466	Ultramafic (Serpentine) Fault Zone: blue-black, very soft to soft, locally muddy; schistose at 80°; white carbonate & few qtz strs. and lenses which are more resistent in soft serpentine or locally talcose or muddy matrix.						
	315.0-317.0 core ground						
	331.0-332.0 core ground						
	332.0-369.0 rock is more solid but apparently brecciated marked by rounded fragments of carbonate & wallrock in erratic pattern						
	346.5 2" calcite stringer						
	367 2" calcite stringer						
	369.0-385.5 grey colour caused by soft grey brecciated mineral interspersed with numerous white very irreg. calcite strs. and clots; average schistosity seems to be developed at 50° to c.a.						

Drilled By: Norex

Signed: [signature]
SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-4A

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
	382.0-383.0 core ground						
	384.5-385.5 soft & crumbly - fault?						
	385.5 brecciated as from 332-369						
	390-391 core ground						
	396 2" mud						
	407 1" mud						
	409-411 core ground						
	408.7 3" mud						
	411-413 as at 369						
	413-425 numerous fractures and shears marked						
	by white calcite stringers						
	425-427.5 brecciated as above						
	436-437 core ground						
	440.3-445 brecciated schistose at 50°, soft and						
	locally muddy						
	445-466 brecciated						
	452-454 partially dissolved breccia schist						
	at 50°						
	448.5 2" irridescent purple soft mineral						
	following breccia cracks						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-4A

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
466 - 604	Carbonate-Quartz Rock: contact is knife sharp at						
	70° to c.a. marked by 4" of massive talc;						
	carbonate is grey-green, med. grained, soft to						
	medium hard with numerous irreg. qtz veins and						
	strs., rock has a pebbly texture after carbonate						
	pseudomorphs; 2 ages of quartz veining.						
	479.7-484.7 30% white qtz strs. having sericite	4A-1	5.0	16			
	contacts, very slight pyrite						
	484.7-489.7 70% irreg. qtz veins & strs.	4A-2	5.0	10			
	489.7-494.7 50% " " " " "	4A-3	5.0	11			
	494.7-499.7 40% " " " " "	4A-4	5.0	25			
	499.7-504.7 60% irreg. qtz veins & strs. with	4A-5	5.0	4			
	sericitic contacts						
	504.7-509.7 90% irreg. qtz veins & strs. with	4A-6	5.0	8			
	sericitic contacts						
	509.7-514.7 20% qtz strs. with sericitic contacts	4A-7	5.0	2			
	514.7-519.5 25% " " " " "	4A-8	4.8	4			
	519.5-524.5 50% qtz veins & strs. with sericitic	4A-9	5.0	2			
	contacts						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-4A

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
	524.5-530.5 100% qtz veins & strs. with sericitic	4A-10	6.0	2			
	contacts						
	529.5-550.2 roughly banded carbonate at 50° with						
	few conf. & crosscutting qtz strs.						
	537 2" qtz str.						
	550.2-555.2 40% qtz-carbonate strs.	4A-11	5.0	8			
	555.2-560.2 25% irreg. qtz-carbonate strs.	4A-12	5.0	4			
	560.2-565.0 30% irreg. qtz-carbonate strs.;	4A-13	4.8	5			
	carbonate is light brown colour;						
	possibly ankerite						
	565.0-570.0 30% qtz-carbonate strs.	4A-14	5.0	3			
	570.0-574.9 30% " " " , sli. pyrite	4A-15	4.9	7			
	574.9-579.7 40% " " "	4A-16	4.8	3			
	579.7-584.0 35% " " veins & strs.	4A-17	4.3	29			
	584-604 becoming more chloritic						
	584.0-589.0 20% qtz-carbonate strs.	4A-18	5.0	7			
	589.0-593.3 20% " " "	4A-19	4.3	2			
	593.3-598.1 25% qtz-carbonate strs., sli. pyrite	4A-20	4.8	4			
	598.1-600.0 15% qtz-carbonate strs. banding at	4A-21	1.9	7			
	60-70°, 1% pyrite						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-4A

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
	600.0-604.0 intermediate dyke @ 45°; 1" white	4A-22	4.0	8			
	qtz str. @ 20° @ bottom contact, odd						
	speck of reddish mineral throughout						
	perhaps potash feldspar						
604 - 657.8	Talc-Chlorite-Carbonate Schist: dark green, very						
	soft, schistose @ 50°, odd carbonate str., minor						
	euhedral pyrite.						
	649.0-651.0 core ground						
657.8 - 684.8	Felsic Dyke: light pink, siliceous, fine grained						
	& massive; chlorite fractures here and there.						
	657.7-661.0 few irreg. flat chlorite fractures	4A-23	3.3	7			
	661.0-665.0 as above	4A-24	4.0	8			
	672.7-677.0 as above with 1" qtz str. and few	4A-25	4.3	7			
	grains of pyrite						
684.8 - 730.0	Talc-Chlorite Schist: dark green, very soft,						
	fairly massive rock with odd carbonate stringer.						
	697 some large crystals of pyrite						
730 - 739	Intermediate Intrusive Dyke: grey, med. grained,						
	massive except for sections up to about a foot of						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-4A

TOWNSHIP ..... PAGE NO. 6

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
	pure chlorite; feldspar grains in matrix of						
	chlorite, some pyrite.						
739 - 746	Fault Zone: partially dissolved section of clay						
	minerals developed after intermediate intrusive.						
746	END.						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY: POMINEX LTD. HOLE NO.: 84-5

TOWNSHIP: Macklem Township PAGE NO.: 1

LOCATION: Line 16+30W
Station 4+99 South

ELEVATION:

CORE LOCATION: M.N.R. - Timmins

DIRECTION: North (ast.)

DIP: 50°

DEPTH: 743'

STARTED: February 8, 1984

COMPLETED: February 13, 1984

DIP TESTS: 200' - 52°
700' - 53°

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
0 - 220	Casing (overburden).						
220 - 465.0	Felsic to Intermediate Amygdaloidal Pillow Lava:						
	very hard, v.f.gr. dacitic pillows from 2 to 8'						
	wide with zoned globules in chloritic selvages of						
	pillows; lighter coloured amygdules up to ½" in						
	diameter; selvages at about 45° including						
	chlorite?, epidote, pyrite; minor irreg. quartz-						
	carbonate up to 4' wide; same as hole 84-2.						
	256.9-261.4	5-1	4.5	10			
	292.6-293.8 irreg. qtz & yellowish carbonate	5-2	1.2	5			
	in selvage						
	328 ¼" splash of pyrite						
	369.2-369.8 diabase @ 80° to c.a.						
	412 3" irreg. brownish carbonate						
	429 1" banded carbonate @ 25° represent-						
	ing fault						
	429.4-431.8 black diabase dyke @ 70°						
	440.6 5" black diabase dyke @ 60°						

Drilled By: Norex

Signed:

SHIELD GEOPHYSICS LIMITED

P.A.P. - I-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-5

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
465 - 724.8	Felsic Porphyry Dyke: light to med. green to						
	grey, very hard & aphanitic; scattered white						
	rectangular phenocrysts; fractures marked by						
	straight and irreg. black lines of either						
	chlorite or carbonaceous material, some pyrite						
	locally and odd narrow qtz str.; contact is sharp						
	at 65° to c.a.						
	462.7-467.0 1% scattered pyrite	5-3	4.3	3			
	467.0-472.0 some irreg. black fractures	5-4	5.0	5			
	472.0-476.0	5-5	4.0	4			
	476.0-481.0	5-6	5.0	2			
	481.0-486.0 few black fractures	5-7	5.0	10			
	486.0-491.0 few black fractures	5-8	5.0	2			
	491.0-521.0 lighter colour						
	491.0-496.0 lighter colour & few fractures,	5-9	5.0	11			
	some chlorite						
	496.0-501.0 2 ½" white qtz strs. with some pyrite	5-10	5.0	222			
	501.0-505.9 minor pyrite with ½" qtz str. @ 20°	5-11	4.9	867			
	505.9-511.0 2 ½" qtz strs. & pyritized fracture @ 20°	5-12	5.1	343			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-5

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	511.0-516.0 3 ¼-½" qtz strs. @ 10-45°, some fractures	5-13	5.0	494			
	516.0-521.0 ½" qtz str. @ 0°	5-14	5.0		0.052		
	521.0-526.0 few black fractures	5-15	5.0	478			
	526.0-531.0 few black fractures	5-16	5.0	158			
	531.0-536.0 2-6" zones of irreg. fractured qtz with pyrite	5-17	5.0	117			
	534-536.4 light coloured intermediate dyke @ 80°						
	536.4-541.1 few shadowy irreg. qtz strs., sli. pyrite	5-18	4.7	67			
	541.1-546.1 few fractures assoc. with poorly defined qtz strs., sli. pyrite	5-19	5.0	260			
	546.1-551.0 20% shadowy qtz str. @ 20°, sli. py	5-20	4.9	244			
	551.0-555.8 1.5" qtz str. @ 20° & 3 fractures @ 20° with pyrite	5-21	4.8	791			
	555.8-561.0 well fractured & few ½" to 1" qtz str., slight pyrite	5-22	5.2	543			
	561.0-567.0 20% poorly defined qtz strs. with fractures, sli. pyrite	5-23	6.0	311			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-5

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	567.0-572.0 few fractures	5-24	5.0	53			
	572.0-576.8 fractured	5-25	4.8	129			
	576.8-581.0 few fractures	5-26	4.2	291			
	581.0-587.0 first & last two feet well fractured;	5-27	6.0	605			
	60% irreg. qtz, some pyrite in last						
	two feet						
	587.0-592.0 few qtz strs. & fractures	5-28	5.0	156			
	592.0-597.0 2 ½" qtz strs. @ 30°	5-29	5.0	56			
	597.0-602.0 1" qtz str. @ 20°, slight pyrite	5-30	5.0		0.029		
	602.0-607.0 several fractures @ 30°, some assoc.	5-31	5.0	180			
	with narrow qtz strs., pyrite, &						
	bleaching						
	607.0-612.0 few fractures	5-32	5.0	48			
	612.0-617.0 few fractures assoc. with bleaching	5-33	5.0	30			
	617.0-622.0 few fractures	5-34	5.0	11			
	622.0-627.0 few fractures	5-35	5.0	25			
	627.0-632.0 1" qtz str. @ 30° marks beginning of	5-36	5.0	89			
	bleaching to cream colour and						
	fractures with pyrite						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-5

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	632.0-637.0 bleached, few fractures & fine qtz	5-37	5.0	319			
	stringers						
	637.0-642.0 as above with 3" chlorite section &	5-38	5.0	445			
	¼" pink calcite @ 45°						
	642.0-647.0 bleached, fractured, 1% pyrite &	5-39	5.0		0.061		
	vuggy pink calcite @ 35°, ½"						
	pyritized qtz str. @ 20°						
	647.0-652.0 ½ bleached, fractured, sli. pyrite	5-40	5.0	263			
	652.0-657.0 ¾ bleached, few fractures	5-41	5.0	114			
	657.0-662.0 fractured, including ¼" qtz str. @	5-42	5.0	132			
	30° with adj. seam of pyrite						
	662.0-667.0 fractured, 1" grey qtz str. @ 80°	5-43	5.0	8			
	adj. to 1' intermediate dyke @ 80°						
	667.0-672.0 fractured	5-44	5.0	3			
	672.0-677.0 well fractured, some shadowy qtz	5-45	5.0	11			
	677.0-682.0 1" & 2" intermed. dykes @ 80°,	5-46	5.0	70			
	fractured, 1/8" narrow qtz strs.						
	//ing c.a., slight pyrite						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-5

TOWNSHIP ..... PAGE NO. 6

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
	682.0-687.0 7" intermediate dyke @ 80°,	5-47	5.0	53			
	moderately soft & porphyritic like						
	others; porphyry is fractured with						
	slight pyrite						
	687.0-692.0 fractured	5-48	5.0	22			
	692.0-697.0 1.2' intermed. dyke @ 80° as above,	5-49	5.0	7			
	fractured, porphyritic						
	697.0-704.0 sli. fractured, 2-1" int. dykes	5-50	7.0	11			
	704.0-709.0 1.2' int. dyke @ 80°	5-51	5.0	10			
	709.0-714.0 lightly fractured near perpendicular	5-52	5.0	14			
	to core						
	714.0-719.0 3" & 1' sections of int. dyke @ 90°;	5-53	5.0	11			
	rock becoming darker @ fractures @ 45°						
	719.0-724.0 darker; 6" brown chert-like rock @	5-54	5.0	60			
	90°, some irreg. white carbonate						
	724.0-726.8 contact zone	5-55	2.8	3			
724.8 - 743	Mafic Conformable Intrusive: f. to m. grained,						
	dark green, moderately soft, having multiple con-						
	tacts suggestive of zoned or multiple intrusion;						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-5

TOWNSHIP ..... PAGE NO. 7

LOCATION .....
.....
.....
ELEVATION .....

CORE LOCATION .....
DIRECTION .....
DIP .....
DEPTH .....

STARTED .....
COMPLETED .....
DIP TESTS .....
.....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
	some sections equivalent to dykes in porphyry;						
	contact knife sharp.						
743	END.						

Drilled By .....

Signed .....
SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY POMINEX LTD. HOLE NO. 84-6

TOWNSHIP Macklem Township PAGE NO. 1

LOCATION Line 16+30W
Station 5+24 South (metric)
(30 m E & 4 m S of 84-2)
ELEVATION

CORE LOCATION M.N.R. - Timmins
DIRECTION North (ast.)
DIP 50°
DEPTH 835'
BQ core (1 7/16")

STARTED February 15, 1984
COMPLETED February 24, 1984
DIP TESTS 240' - 51°
835' - 48°

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
0 - 234	Casing (overburden).						
234 - 540	Intermediate to Felsic Amygdaloidal Pillow Lava: pale to dark green, very hard, pillows up to several feet with amygdaloidal selvages; selvages marked by softer dark green chloritic zones, carbonate, some epidote between pillows; very occasional large clots of pyrite mostly in selvages.						
	235.5 ½" purple qtz str. @ 40°						
	235.7 ½" massive pyrite @ 40° adjacent to pillow selvage						
	251-257 dark green chloritic						
	320-323.5 fractured with qtz filling, minor py	6-52	3.5	4			
	394.8-397 1% pyrite in gash fractures	6-53	2.2	10			
	404 ½" banded qtz in fracture @ 30°						
	415.5 1" banded qtz-carb str. @ 30° to c.a.						
	448 3" pink qtz-carb in selvage						
	439 10" intermediate dyke @ 70-80°						
	500-504 intermediate black, v.f.gr. banded intrusive @ 80°						

Drilled By Norex

Signed

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-6

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	506.0-510.0 as above						
	516 ¼" & 2" qtz-carb str. @ 35°						
540 - 543	Intermediate (Dioritic) Intrusive: grey-green,						
	med. grained with diabasic texture; much white						
	feldspar as lathes in green fibrous matrix, sharp						
	contacts @ 70° to c.a.						
543 - 553	Intermediate to Felsic Pillow Lava: as above						
	543.3 4" of sheared slightly vuggy qtz @						
	25° marks fault; little hematized						
	pyrite						
	551.5-553 buff green breccia zone (sericitic)						
553 - 554.5	Serpentine: dark bluish, massive, soft, filling						
	fracture @ 10° to c.a.						
	551.2-555.0 ½" irreg. qtz str. //ing c.a.	6-1	3.8	27			
554.5 - 791.8	Felsic Porphyry Dyke: yellowish green to green-						
	grey, aphanitic, massive with occ. white feldspar						
	phenocrysts; initial 1.2' shows fine granular						
	texture with ghost-like fragments--probable						
	xenoliths; then sharp contact @ 50°; appears to be						

actual contact since qtz str. stops at contact.

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-6

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz	
	555.0-560.0 40% white qtz as strs. //ing c.a.,	6-2	5.0		.064	
	1-2% pyrite as euhedral crystals in					
	wlrk & fine strs. and seams mostly					.056 / 9'
	// to core axis					
	560-564 1" qtz str. @ 10°, 2% pyrite in few	6-3	4.0		.046	
	seams; seams @ 30-40° cut qtz					
	564-569 flat qtz strs. (½-1") form 20%; some	6-4	5.0	260		
	chlorite along contacts; less than					
	1% euhedral pyrite					
	569 - 574 a flat chlorite fracture @ 0° & one	6-5	5.0	946		
	@ 45°, minor euhedral pyrite					
	574-579 last foot contains irreg. grey	6-6	5.0	141		
	ghostly fractures, some yellowish					
	secondary mineral on flat fracture					
	579-584 little darker from ghost-like	6-7	5.0	4		
	fractures @ faded ovoid phenocrysts					
	584-589 ragged irreg. fract. assoc. with	6-8	5.0	59		
	ghost-qtz fillings, late pink ½"					
	qtz str. @ 40°					

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-6

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	589.0-594.0 as above with 3" dioritic dyke @ 80°	6-9	5.0	260			
	594-624 generally darker (grey) with more						
	intense fracturing preferably @ 20-						
	30°; euhedral & smeared pyrite on						
	tight chloritic fractures						
	594-600 8" & 5" diorite dykes; moderate	6-10	6.0	34			
	fracturing and ghosty qtz						
	600-605 3" diorite; moderate to good	6-11	5.0		.033		
	fracturing assoc. with poorly defined						
	qtz						
	605-610 moderate fracturing as above; late	6-12	5.0	842			
	½" qtz str. cuts fractures						
	610-615 moderate fracturing	6-13	5.0	356			
	615-619 moderate fracturing	6-14	4.0	374			
	619-624 moderate fracturing assoc. with	6-15	5.0		.037		
	ghosty qtz strs., 1% py; obscure VG					.061/10'	
	in quartz str.						
	624-629 light fracturing at 30°, minor py;	6-16	5.0		.085		
	½" qtz str. @ 30°						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-6

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	629.0-635.0	few fractures @ 45-30°, minor py	6-17	5.0	225			
	635-640	few fractures, ¼" qtz str. in fract.	6-18	5.0	905			
		@ 30°						
	640-645	moderate fracturing	6-19	5.0	45			
	645-650	few fractures	6-20	5.0	125			
	650-654	few fractures	6-21	4.0	32			
	654-658	2" grey to black banded qtz str. @	6-22	4.0	15			
		30°, black brecciated siliceous						
		mineral at contacts						
	658-659.8	few fractures	6-23	1.8	5			
	659.8-664.8	mod. fracturing, ½" qtz str. @ 20°	6-24	5.0		.036		
		with some pyrite					.17 / 7.2'	
	664.8-667.0	light fracturing	6-25	2.2		.470		
	667-672	mod. fracturing, minor fine pyrite	6-26	5.0	348			
	672-676	light fracturing	6-27	4.0	69			
	676-681	light to moderate fracturing	6-28	5.0	26			
	681-686	mod. fracturing, mostly @ 30° assoc.	6-29	5.0	8			
		with alternating grey & buff green						
		colour & ½" qtz str.						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-6

TOWNSHIP ..... PAGE NO. 6

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	686.0-691.0	few fractures, 2-½" ghosty qtz strs.	6-30	5.0	12			
		@ 30°						
	691-696	few fractures	6-31	5.0	16			
	691-733.2	generally lighter buff-green colour						
	696-701	few fractures, minor pyrite	6-32	5.0	30			
	701-707	few fractures except in last foot	6-33	6.0	754			
		where more assoc. with 2" qtz str.						
		@ 30°						
	707-712	few fractures, minor euhedral pyrite	6-34	5.0		.035		
	712-717	few fractures & strs. of pink calcite	6-35	5.0		.076		
	717-724.8	mod. fracturing mostly @ 40°, little	6-36	7.8		.055		
		pink calcite filling fracture; 5"					.114	
		diorite @ 90°					21.2	
	724.8-729.8	few fractures & 1" qtz str. //ing	6-37	5.0		.245		
		c.a., minor pyrite						
	729.8-733.2	few fractures; 1% pyrite	6-38	3.4		.110		
	733.2-791.8	generally darker to light grey						
		colour; portions show a granular						
		texture						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-6

TOWNSHIP ..... PAGE NO. 7

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH .....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
733.2-737.0	few fractures	6-39	3.8	430			
737-742	few fractures; ghost-like and poorly defined	6-40	5.0	59			
742-747	as above	6-41	5.0	425			
747-752	as above	6-42	5.0	60			
752-757	as above	6-43	5.0	44			
757-762	as above	6-44	5.0	69			
762-767	as above, 1.2' diorite dyke @ 20°	6-45	5.0	267			
767-772	as above	6-46	5.0	3			
770.6-772.7	banded dioritic intrusive; sharp contacts @ 40° & 90°						
772-777	very few fractures; 2" diorite intrusive @ 90°	6-47	5.0	29			
777-782	few fractures; 6" diorite intrusive @ 80°	6-48	5.0	454			
782-787	few fractures	6-49	5.0	5			
787-791.8	1', 2-6" gabbroic intrusive dykes, sharp contacts @ 80-50°	6-50	5.0	2			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-6

TOWNSHIP ..... PAGE NO. 8

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
791.8 - 835	Mafic (Gabbroic) Intrusive: med. to dark green,						
	f. to m. grained, layered or banded, chloritic,						
	rock having sharp contacts; in part epidotized;						
	possible altered volcanic.						
	797.0-800.2 mostly pink to grey aphanitic felsic	6-51	3.2	4			
	intrusive, individual dykes and mod.						
	fractured with sharp 90° contact						
	805 4" felsic aphanitic dyke						
835	END.						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY POMINEX LTD. HOLE NO. 84-7

TOWNSHIP Macklem Township PAGE NO. 1

LOCATION Line 9 West
Station 3+60 South (metric)

ELEVATION

CORE LOCATION M.N.R. - Timmins
DIRECTION North (ast.)
DIP 50°
DEPTH 700'

STARTED February 26, 1984
COMPLETED March 8, 1984
DIP TESTS 206' - 47°
700' - 48°

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
0 - 206	Casing (overburden).						
206 - 418	Felsic to Intermediate Amygdaloidal Pillow Lava:						
	grey-green, very hard except for selvage zone						
	which is chloritic, epidotized, and fractured;						
	white qtz, carbonate in fractures, occ. clots &						
	seams of pyrite & vesicles; see holes 84-2, 5 & 6.						
	262 purple qtz str. //ing core axis						
	356.7-364.0 intermediate (diabase) dyke; dark grey						
	fine grained with sharp chilled						
	contacts @ 80°						
	416-417 brecciated						
418 - 662.2	Felsic Porphyry Dyke: light grey-green, v.f.gr.						
	to aphanitic, generally massive hard siliceous						
	rock with occ. rectangular feldspar phenocrysts;						
	locally displays faded indistinct banding, upper						
	contact sharp at 80°.						
	417.8-422.8 light irreg. fracturing marked by	7-1	5.0	3			
	tight chloritic seams and odd grain						
	of pyrite						

Drilled By Norex

Signed

SHIELD GEOPHYSICS LIMITED

P.A.P. - I-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-7

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH .....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
	422.8-427.8 light fracturing as above	7-2	5.0	2			
	427.8-459.4 massive with only 2 or 3 fractures						
	457.6-459.4 moderately soft int. to mafic green						
	dyke at 80°						
	459.4-464.4 4" of brecciated fractures @ 90°,	7-3	5.0	3			
	slight pyrite						
	464.4-469.4 light fracturing, slight pyrite	7-4	5.0	70			
	459.4 faded ovoid porphyroblasts						
	469.4-475.0 core ground						
	475.0-480.0 light fracturing at about 30°	7-5	5.0	251			
	480.0-485.0 " "	7-6	5.0	388			
	485.0-490.0 light to moderate fracturing	7-7	5.0	23			
	490.0-495.0 " " " "	7-8	5.0	11			
	495.0-500.0 mod. fracturing & bleached to cream	7-9	5.0	151			
	colour, some fractures are graphitic,						
	slight pyrite assoc. with fracturing						
	500.0-506.3 mod. fracturing	7-10	6.3	180			
	508.8-513.8 light fracturing	7-11	5.0	4			
	513.8-518.8 mod. fracturing	7-12	5.0	871	.01%		

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-7

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
	518.8-523.8 light fracturing	7-13	5.0	11			
	523.8-528.8 mod. fracturing @ 30°	7-14	5.0	59			
	528.8-533.8 mod. fracturing	7-15	5.0	351			
	506.3-508.8 dark intermediate to mafic dyke,						
	contact @ 45°						
	533.8-537.0 1st 1.5' bleached to grey-white	7-16	3.2	513			
	colour, moderate fracturing						
	537.0-542.0 light fracturing	7-17	5.0	329			
	542.0-547.0 light fracturing assoc. with pyrite	7-18	5.0	700	.02		
	seaming						
	547.0-552.0 1" qtz str. with sericitic contacts	7-19	5.0	583	.016		
	lling c.a.						
	552.0-559.0 mod. to good fracturing assoc. with	7-20	7.0	111			
	silicification and pyrite; locally						
	bleached						
	559.0-560.2 green int. to mafic dyke @ 80°						
	560.2-565.2 mod. fracturing	7-21	5.0	22			
	565.2-570.2 light fracturing	7-22	5.0	2			
	570.2-577.0 light fracturing	7-23	6.8	3			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-7

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
	577.0-582.0 light fracturing	7-24	5.0	4			
	582.0-596.5 very few fractures						
	596.5-598.8 one sulphide-filled fracture @ 40°	7-25	2.3	266			
	598.8-602.1 mod. irreg. fracturing	7-26	3.3	5			
	602.1-607.1 good fracturing mainly @ 30° assoc.	7-27	5.0	55			
	with silicification & pyrite along						
	fractures						
	607.1-612.1 mod. fracturing	7-28	5.0	5			
	612.1-617.1 light fracturing	7-29	5.0	38			
	617.1-622.1 light fracturing	7-30	5.0	26			
	622.1-627.1 good fracturing assoc. with silicifi-	7-31	5.0	59			
	cation & py mainly @ 30°						
	627.1-632.0 light fracturing	7-32	5.0	10			
	632.0-637.0 light fracturing	7-33	5.0	45			
	637.0-642.0 light to mod. fracturing	7-34	5.0	44			
	642.0-647.0 light to mod. fracturing	7-35	5.0	4			
	647.0-651.0 good fracturing assoc. with irreg.	7-36	4.0	77			
	silicification & pyrite along seams						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-7

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
	651.0-657.0 (good) heavy fracturing causing bleaching & silicification; main fracturing @ 30°; minor pyrite	7-37	6.0	37			
	657.0-660.4 light to mod. fracturing; but bleached	7-38	3.4	18			
662.2 - 700	Felsic to Intermediate Amygdaloidal Pillow Lava:						
	as above.						
	697.3-698.9 mafic (diabasic) dyke						
700	END.						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY POMINEX LTD. HOLE NO. 84-8

TOWNSHIP Macklem Township PAGE NO. 1

LOCATION Line 16+30 West
Station 3+04 South
(metric grid)

ELEVATION

CORE LOCATION #34 Warehouse - Airport Road

DIRECTION South (ast.)

DIP 61°

DEPTH 750' (BQ & AQ)

STARTED March , 1984

COMPLETED March 19, 1984

DIP TESTS 250' - 61°

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
0 - 209	Casing (overburden).						
209 - 750	Felsic Porphyry Dyke: light grey to green, hard,						
	with white feldspar phenocrysts; initially rock is						
	variably rusty after minor pyrite & core is broken.						
	209-215 rock is bleached to cream colour from						
	groundwater						
	251-264 rock is bleached to cream colour from						
	groundwater						
	209-215 bleached with rust spots after pyrite	8-1	6.0	946			
	215-220 slight pyrite	8-49	5.0		0.004		
	220-222.9 partially bleached & 1" qtz str. @ 80°	8-2	2.9	636			
	222.9-231.5 bleached & few fractures	8-3	8.6	69			
	226.4-230 core lost						
	231.5-236.0 few fractures; 2 ½" qtz strs. @ 80°	8-4	4.5		0.070		
	236.0-241.6 core broken after fractures	8-5	5.6	420			
	241.6-246.0 2" qtz str. @ 80°	8-6	4.4		0.024		
	246.0-251 moderately fractured	8-7	5.0	365			
	251-256 bleached with rusty spots	8-8	5.0	713			
	256-260 bleached & fractured with rust spots	8-9	4.0		0.139		

Drilled By Bradley Bros.

Signed

SHIELD GEOPHYSICS LIMITED

PAP - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-8

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH .....

DEPTH FEET/METRES		FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	260-265	bleached & fractured mainly @ 80°,	8-10	5.0	461			
		rust spots						
	272.1-275.4	core broken; mafic dark green						
		intrusive						
	275.4-279.2	felsic porphyry						
	279.2-285.5	core broken; mafic dark green						
		intrusive						
	291-296	2" banded qtz str. @ 45°	8-11	5.0	27			
	296-300	mostly intermed. light green int.;						
		contacts partially // c.a.						
	296	core size changes from BQ to AQ						
		because of problem with casing						
	309-312.3	some bleaching & fracturing @ 70°	8-12	3.3	128			
	321-327	bleaching & fracturing @ 70°, sli.	8-13	6.0	822			
		pyrite						
	338-343.5	1" & 2" qtz str. @ 75°, few fractures,	8-14	5.5	844			
		slight pyrite						
	359	1" qtz str. @ 90°						
	365.8-370.8	mod. fracturing, 1" qtz str. @ 70°	8-15	5.0		.028		

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-8

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	370.8-375.8 light fracturing	8-16	5.0		.032		
	393.5-396 crumbly light green int. intrusive @ 45°						
	405 colour changes from generally light						
	to med. grey-green						
	445-450	8-50	5.0		.012		
	450-453 grey silicified, few fract., sli. py	8-17	3.0		.060		
	453-458	8-51	3.0		.004		
	496.5-501.5 1" brecciated qtz str. @ 30° followed	8-18	5.0	260			
	by moderate fracturing						
	501.5-504.5 few fractures, slight pyrite	8-19	3.0	233			
	513 2" qtz str. @ 70°						
	521.2-525.2 moderate fracturing over about a foot	8-20	4.0	796			
	@ 30°, slight pyrite						
	532.5-537.5 vuggy pink qtz strs. @ 80° & 1" qtz	8-21	5.0	651			
	str. @ 80°						
	547-551 qtz str. @ 80°, few fract., sli. py	8-22	4.0	590			
	551-553 1" qtz str. @ 70°	8-23	2.0	446			
	564-569 silicified fract. following core,	8-24	5.0	590			
	mod. fracturing, slight pyrite						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

PAP - 1.69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-8

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz	Product	
580.0 -584.7		8-52	4.7'		.008		
584.7-590.0	few fractures, 1" qtz str. @ 80°,	8-25	5.3		.189		
	slight pyrite						
590-593	1" & 2" qtz str. @ 70°, 1% pyrite	8-26	3.0		.038		
600	1" qtz str. @ 75°						
601.2	1" pink vuggy qtz str.						
610-615	few fractures & 3" qtz str. @ 75°,	8-27	5.0		.026		
	some pyrite						
615-620	few fractures mostly @ 70°	8-28	5.0	610(.018)			
620-625	3" qtz str. @ 70°, few pyritized	8-29	5.0		.108	.54	.108/5
	fractures						
625-630	2" qtz str. @ 70°, few pyritized	8-30	5.0		.026	.13	
	fractures						
630-635	3" qtz str. @ 70°, few pyritized	8-31	5.0		.020	.10	
	fractures						
635-640	2 1" qtz strs. @ 70°	8-32	5.0		.050	.25	
640-645	3 1" qtz strs. @ 70°, sli. diss. py	8-33	5.0	897(.026)		.13	
645-650	3", 1" qtz strs. @ 70°, few pyritized	8-34	5.0		.052	.26	
	fractures						
650-656	silicified & bleached irregularly;	8-35	6.0		.076	.456	
	slight pyrite						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-8

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz	Product	
	656.0-661.0 well fractured mainly @ 35°, grey to	8-36	5.0		.060	.30	
	green colour						
	661-666 8" qtz str. @ 70°, intersecting str.	8-37	5.0		6.88 3.42 4.79	23.95	
	@ 10° contains 5 showings of VG all						
	within euhedral pyrite; moderately						
	fractured mainly @ 35-40°						
	666-671 well fractured & silicified, sli. py	8-38	5.0		.060 .044 .052	.26	
	671-676 silicified, fewer fractures	8-39	5.0		.030	.15	
	676-681 2" & 6" qtz str. @ 70°, few pyritized	8-40	5.0		.082 .090 .086	.43	620
	& chloritic fractures						.328 85
	681-686 3 1" qtz strs. @ 70°, 1" pink qtz	8-41	5.0		.042	.21	705
	str. @ 70°, moderately well fractured,						
	3" pyritized black chlorite						.105 cut 85 to oz
	686-688 1' of chlorite-qtz marking probable	8-42	2.0		.026	.052	
	fault @ 30°, 6" qtz str. @ 40°, sli.						
	pyrite						
	688-693 moderate fracturing, 10" qtz str.	8-43	5.0		.014	.07	
	with seam at bottom marked by crumbly						
	chlorite						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-8

TOWNSHIP ..... PAGE NO. 6

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES		FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	693-698	2" & 7" qtz str. @ 70°, rusty pyrite;	8-44	5.0	919	.050		
		last 2' silicified						
	698-705	3", 1" qtz strs., partially silicif.;	8-45	7.0		.048 .040 .044		
		1% pyrite						
	705-710	2 1" & 4" qtz strs. @ 70°; 2' of	8-46	5.0	836			
		silicif., less than 1% pyrite						
	710-715	few fractures	8-47	5.0	609			
	720	8" of silicification						
	726-731		8-53	5.0		.028		
	731-736	2" & 2 +" qtz strs. @ 70°, some	8-48	5.0		.092		
		fracturing, 1% py representative of						
		remaining core						
	736-741		8-54	5.0		.030		
750	END.							

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - I-69

DIAMOND DRILL RECORD

PROPERTY POMINEX LTD. HOLE NO. 84-9

TOWNSHIP Macklem Township PAGE NO. 1

LOCATION Line 16 West
Station 3+00 South
(metric grid)
ELEVATION same as 84-8

CORE LOCATION #34 Warehouse - Airport Road
DIRECTION South (ast.)
DIP 61°
DEPTH 981'

STARTED March 10, 1984
COMPLETED March 20, 1984
DIP TESTS 150' - 63°
900' - 63°

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
0 - 150	Casing (overburden).							
150 - 981	Felsic Porphyry Dyke: light green to grey, hard							
	with white feldspar phencorysts; rock is fractured							
	having numerous well defined and shadowy (poorly							
	defined) qtz stringers; most pyrite in wallrock;							
	quartz as silicification along tight central							
	fracture or well defined stringers @ 70 to 80° to							
	c.a.							
	150-156	core is badly broken with minor py	9-1	6.0	125			
	156-161	as above with 4 ¼" qtz strs. @ 90°,	9-2	5.0	885			
		1% pyrite						
	161-167	4 ½"-1" qtz strs. mainly @ 45°	9-3	6.0	260			
	167-172	2" & 4 ¼" qtz strs. @ 50-30°	9-4	5.0	500			
	172-177	4 ½" qtz strs. @ 50°-30°, sli. py;	9-5	5.0	670			
		secondary yellow mineral on 25° slip						
		planes						
	177-182	6 ¼" qtz strs. mainly @ 70°, 1%	9-6	5.0	672			
		rusty pyrite						
	182-187	2 ½" qtz strs.	9-7	5.0	67			

Drilled By Norex

Signed
SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-9

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES		FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	187-192	almost 40% silicification @ 90°-25°,	9-8	5.0	681			
		minor pyrite						
	192-197	6 ¼" qtz strs. mainly @ 70°	9-9	5.0	452			
	197-202	20% silicification, few qtz strs.,	9-10	5.0		.04		
		1% pyrite						
	202-207	3 ¼" qtz strs., 1% pyrite, partially	9-11	5.0	676			
		bleached						
	207-212	well fractured, 20% silicif. as	9-12	5.0	274			
		irreg. strs.; 1% rusty pyrite						
	212-217	mod. fracturing, 6 ¼" to ½" qtz strs.,	9-13	5.0	370			
		1% rusty pyrite						
	217-221.5	broken core	9-14	4.5	158			
	221.5-226	1" rusty qtz str.	9-15	4.5	385			
	226-230.5	20% silicif. mainly as qtz strs. @	9-16	4.5	995			
		46°						
	230.5-235	few fractures, 1" qtz str.	9-17	4.5	88			
	235-239.5	1" qtz str. @ 80°	9-18	4.5	388			
	239.5-241.3	50% silicif. along fractures @ 35°,	9-19	1.8	78			
		slight pyrite						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-9

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	241.3-246.0	few fractures @ 35°	9-20	4.7		.086		.086/4.7'
	246-253	12 fractures or qtz strs. @ 70-30°,	9-21	7.0	623			
		some pyrite						
	253-257.5	fractured, silicified & rusty; qtz	9-22	4.5	376			
		strs. are vuggy, 1% pyrite						
	257.5-264.0	fractures & narrow qtz strs. are	9-23	6.5	214			
		vuggy, sli. rusty pyrite						
	262.5-264	core lost						
	264-269	10" of irreg. qtz & vuggy fractures	9-24	5.0	402			
	269-274	1% rusty pyrite	9-25	5.0	466			
	274-280	rusty, few fractures @ 20° with	9-26	6.0	579			
		silicification						
	280-286.8	grey-cream colour after silicification	9-27	6.8		.096		.096/6.8'
		throughout & pyritized black graphitic						
		fractures mainly at 0°						
	286.8-289.8	well fractured, slight pyrite	9-28	3.0	352			
	289.8-292.0	dark diabase dyke at 45°						
	292-297	moderately fractured, slight pyrite	9-29	5.0	391			
	297-303	lightly fractured	9-30	6.0	773			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-9

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	303-308	lightly fractured	9-31	5.0	59			
	308-313	lightly fractured	9-32	5.0		.056		
	313-318	5 ¼" qtz strs. @ 50-80°, 1% pyrite	9-33	5.0	459			
	318-322	few fractures	9-34	4.0	152			
	322-337	few fractures & narrow qtz strs.,						
		sli. pyrite						
	337-342	3 1" qtz strs. @ 90°, sli. pyrite	9-35	5.0	515			
	350.7-357.0	few irreg. fractures	9-36	6.3	122			
	367-372.5	few fractures, little silicification	9-37	5.5	276			
	372.5-395	few fractures, little silicification						
	395-400	variably silicified, 2 ½" qtz strs.,	9-38	5.0	267			
		slight pyrite						
	400 - 405	few irreg. fractures, variably	9-39	5.0	96			
		silicif.						
	405-410	moderate fracturing with silicif.	9-40	5.0	457			
	410-415	2" qtz str. @ 90°, moderate	9-41	5.0	255			
		fracturing						
	415-421.4	variably silicified odd fracture,	9-42	6.4		.036		
		slight pyrite						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-9

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	421.4-449.5 few fractures, odd qtz str.						
	448-449.2 inter. light green dyke @ 40°						
	449.5-455.0 few fractures & pink calcite strs.	9-43	5.5	162			
	@ 90°						
	455-467.5 few fractures and qtz strs.						
	467.5-472.5 4 fractures and qtz strs.	9-44	5.0	30			
	472.5-477.5 4 ½" to 1" qtz strs. @ 80°, sli. py	9-45	5.0	717			
	477.5-480.4 2" 80° qtz str. cuts ½" str. @ 10°,	9-46	2.9		.054		.054/2.9'
	1% pyrite						
	480.4-483.9	9-47	3.5	236			
	483.9-488.9 few fractures filled by irreg. qtz	9-48	5.0	48			
	488.9-492.0 few fractures	9-49	3.1	455			
	492-497 well fractured, sericitization,	9-50	5.0	699			
	silicification & qtz strs. @ 80°,						
	1% pyrite						
	497-502 few fractures & 3" qtz str. @ 80°	9-51	5.0	747			
	502-507 2 1" qtz strs. @ 80°, mod. fracturing,	9-52	5.0		.068		.068/5'
	bleaching, 1% pyrite						
	507-512 few fractures & strs. mainly @ 80°	9-53	5.0	398			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-9

TOWNSHIP ..... PAGE NO. 6

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz	Product	
	512-517	1" qtz str. & few fractures @ 80°	9-54	5.0		.030		
	517-522	few fractures @ 80°	9-55	5.0	59			
	522-527	few fractures	9-56	5.0	310			
	527-532	silicified, few fractures, 1% pyrite	9-57	5.0	119			
	532-537	silicified, few fractures	9-58	5.0	513			
	537-542	few fractures & strs. @ 80°	9-59	5.0	214			
	547-552	2" qtz str. @ 70°, few fractures,	9-60	5.0	684			
		little silicif.						
	552-557	2 1" qtz str. @ 80°, sli. pyrite	9-61	5.0		.046	.23	
	557-562	some silicif., sli. pyrite	9-62	5.0	562(.016)		.08	
	562-567	3.5' silicified (bleached), 4 ½"	9-63	5.0		.062		~~.043~~ .207
		qtz str. @ 80°; 1% pyrite						
	567-572	3-1", 5" qtz strs. @ 75°, 1% pyrite	9-64	5.0		.048	.24	
	572-577	few fractures @ 75°	9-65	5.0	381			
	577-582	4-1" qtz strs. @ 70°, sli. pyrite	9-66	5.0	960			
	582-587	3-1" qtz strs. @ 70-50°, 6" silicif.	9-67	5.0	444			
		slight pyrite, chlorite seam						
	587-592	2" qtz-chlorite, 9" qtz str. @ 70°,	9-68	5.0	699			
		slight pyrite						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-9

TOWNSHIP ..... PAGE NO. 7

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES		FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	592-597	1" qtz str. @ 80°, mod. fracturing	9-69	5.0	521			
	597-602	mod. to well fractured; tight	9-70	5.0	591			
		chloritic fractures						
	602-667	dirty disuniform grey colour from						
		chlorite						
	602-607	6" silicif. followed by heavily	9-71	5.0	380	.014		
		fractured & silicif. zone which is						
		grey colour after chlorite, sli. py						
	607-612	heavily fractured & silicif. grey	9-72	5.0	521	.018		
		chloritic zone; 3", 1" & 8" qtz strs.						
		@ 70°, sli. pyrite						
	612-617	as above & 2" qtz str. @ 70°, sli. py	9-73	5.0	687	.028		
	617-622	as above	9-74	5.0		Ave .086 .088.084		.086 5'
	622-627	1", 2 ½" qtz strs. @ 75°; moderately	9-75	5.0	500	.020		
		fractured @ 20° & 70°						
	627-632	2" & 1' qtz strs. @ 70°, moderately	9-76	5.0		.020.020		
		fractured @ 70°, slight pyrite						
	632-637	moderately fractured, sli. pyrite	9-77	5.0		.013		
	635.5-637	core ground						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-9

TOWNSHIP ..... PAGE NO. 8

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH .....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz	Product	
637-642	light to mod. fracturing	9-78	5.0	351	.008		
642-647	light to mod. fracturing, rusty after	9-79	5.0	166	.004		
	pyrite in last foot						
647-652	2" & 10" qtz str. @ 70°, well	9-80	5.0	584	.020	.10	
	fractured, slight pyrite						
652-657	3", 3", 5" qtz strs. @ 70°, fractured	9-81	5.0		.468 .424 .446	2.23	.446 5'
	to brecciated; oldest fracture at 30°						
	?; angular fragments in grey-green						
	matrix; good VG in 5" white qtz						0.13 20'
657-662	fractured to brecciated; most	9-82	5.0	211	.010	.05	
	prominent @ 30°						
662-667	moderate fracturing, slight pyrite	9-83	5.0	932	.030	.15	.033
667-672	4" qtz str. @ 80°, light fracturing,	9-84	5.0	884	.037	.185	10'
	slight pyrite						
667	colour changes from grey to pale green						
	with odd fracture & qtz str. &						
	slightly diss. pyrite; pale green						
	colour seems to result from bleaching						
672-677	light to mod. fracturing	9-85	5.0	265			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-9

TOWNSHIP ..... PAGE NO. 9

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	677-682	1" qtz str., few fractures, sli. py	9-86	5.0	610			
	682-684	3" & 3-1" qtz strs. @ 70°						
	695-697	3-1" qtz strs. @ 80°						
	712-717		9-99	5.0		.030		
	717-720.1	light fracturing, slight pyrite	9-87	3.1		.062		
	720.1-725.1		9-100	5.0		.004		
	737.5	2" qtz str. @ 70°						
	742-747		9-101	5.0		.008		
	747-752	3" qtz str. @ 70°, 1-2% diss. pyrite	9-88	5.0		.060		
	752-757	mod. fract., mainly @ 0°, 1-2% py	9-89	5.0	218			
	757-760	slight fracturing	9-90	3.0	251			
	760-799	colour changes to mainly med. grey						
		with local pale green bleached sections						
	795.2-797	well defined fract. @ 45° over 6"	9-91	1.8	71			
		filled with qtz; wlrk bleached to very pale pink						
	799-802	irreg. qtz str. generally //ing c.a.	9-92	3.0	106			
		with tourmaline						
	799	pale green colour						
	836-841	few fractures causing cream bleaching, slight pyrite	9-93	5.0	521			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-9

TOWNSHIP ..... PAGE NO. 10

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb	Au/oz		
	842- 1.2' intermed. dyke at 30°						
	843-857 few patchy med. grey zones; suggest						
	that pale green colour is a product						
	of hydrothermal alteration						
	862-867 few fractures mainly along c.a.	9-94	5.0	825			
	causing silicif; slight pyrite						
	891.5-893.5 porphyritic, hard, dyke @ 40°						
	894 vuggy fractures with tiny qtz						
	crystals						
	897-912 colour little darker because of						
	incipient fractures and less bleaching						
	907-912 incipient tight fractures, sli. py	9-95	5.0	562			
	912-917 few fractures causing silicif. with	9-96	5.0	775			
	little pyrite						
	928.6-935.1 mod. tight fracturing, slight pyrite	9-97	6.5	551			
	960-962 grey intermed. dyke @ 40°						
	965-966.5 grey intermed. dyke @ 40°						
	966.5-971.5 pyritized fractures adjacent to dyke	9-98	5.0	775			
	rock which //s c.a. for a foot						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-9

TOWNSHIP ..... PAGE NO. 11

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
	971.5-981.0 few incipient fractures						
981	END.						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY POMINEX LTD. HOLE NO. 84-10

TOWNSHIP Macklem Township PAGE NO. 1

LOCATION Line 16+30 West
Station 3+04 South
(metric grid)

ELEVATION same as 84-8

CORE LOCATION #34 Warehouse - Airport Road

DIRECTION South (est.)

DIP 50°

DEPTH 694'

STARTED March 20, 1984

COMPLETED March 24, 1984

DIP TESTS 220' - 55°
690' - 52°

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
0 - 217.5	Casing (overburden).						
217.5 - 694	Felsic Porphyry Dyke: grey to pale green,						
	aphanitic, very hard with white feldspar pheno-						
	crysts, tight chloritic fractures at various						
	angles; may or may not be filled with pyrite or						
	form the loci for silicification.						
	217.5-222.5 moderately fractured at 45° with	10-1	5.0	0.024			
	silicif., some pyrite						
	222.5-227.5 1" qtz str., few fractures mainly	10-2	5.0	0.010			
	at 80°						
	242.2-247.2 2-1" qtz strs. @ 80°, moderate	10-3	5.0	0.054			.054/5'
	silicified fracturing; 80° fracture						
	later than 30° fractures						
	273.5-275.5 1" qtz str. @ 80°, 3" of fractures @	10-4	2.0	0.034			
	45°, slight pyrite						
	278.3-284.3 3" qtz str. @ 70°, few fractures	10-5	6.0	0.014			
	filled with qtz-carbonate, sli. rusty						
	pyrite						
	292-298 dirty grey colour after chlorite						
	dissemination						

Drilled By Bradley Bros.

Signed

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-10

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	303.0-308.0 ½" qtz-carb strs. @ 20°; 2" qtz str.	10-6	5.0	0.010			
	@ 80°, slight pyrite						
	327-332 moderate fracturing, 5" qtz-chlorite	10-7	5.0	0.022			
	@ 35°, slight pyrite						
	338 1" qtz str. @ 70°						
	366 zone of rusty weathering after						
	ankerite ?						
	366.5 2" qtz str. @ 70°						
	372 ½" qtz str. @ 60°						
	401-407.5 dark grey, fairly soft, generally						
	massive rock having amygdaloids;						
	contacts sharp at 70° & 45°, possible						
	pillow lava equivalent to hanging						
	wall unit						
	411.1-413.6 lighter grey but same as above,						
	contact sharp at 40°						
	428.5-439.0 as above but contacts at 30°						
	447.2-454.0 mafic grey f. gr. dyke at 30°						
	454-459 6" silicif. at start and slight	10-7A	5.0	0.004			
	fracturing at 70-30°						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-10

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz		Product	
	457-500 rock contains tiny ovoid green phenocrysts or porphyroblasts						
	473-478 6" silicif., 1" qtz str. @ 60°, few fractures, slight pyrite	10-8	5.0	0.036			
	497.5-502.5 partially bleached, few fractures	10-9	5.0	0.020		.10	
	502.5-507.5 1' of fractured silicif., good splash of VG in 60° fracture, sli.py	10-10	5.0	0.445		2.225	.163 / 15'
	507.5-512.5 4" of silicif., few incipient fractures, sli. py, 1" qtz-chlorite str. at 50°	10-11	5.0	0.024		.12	
	512.5-516.0 few fractures at 30°	10-12	3.5	0.006			
	516-521 few fractures, slight pyrite	10-13	5.0	0.018			
	502.5-586 generally dirty grey-green colour, variably chloritic, fractured throughout, few qtz strs. and variable pyrite content						
	521-526 2-6" sections of intense chloritic fracturing @ 45° with silicif. & sli. pyrite	10-14	5.0	0.016			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-10

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH .....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	526.0-531.0 moderate fracturing @ 70-45°	10-15	5.0	0.004			
	531-536 1" qtz str. @ 80°, 50% silicif. after	10-16	5.0	0.269			.269/5'
	incipient fractures, slight pyrite						
	536-541 well fractured & silicified, 1% py	10-17	5.0	0.008			
	541-546 3 ½" qtz strs. @ 80°, 1" chlorite	10-18	5.0	0.014			
	@ 70°; moderate fracturing, 1% pyrite						
	546-551 mod. fracturing @ 40°-80°, silicified	10-19	5.0	0.018			
	slight pyrite						
	551-556 mod. fracturing @ 80° & 1" qtz str.,	10-20	5.0	0.024			
	slight pyrite						
	556-561 moderate fracturing @ 40-80°	10-21	5.0	0.008			
	561-566 moderate fracturing @ 40-80°, 6"	10-22	5.0	0.004			
	silicif.						
	566-571 moderate fracturing	10-23	5.0	0.002			
	571-576 2' of dyke ? @ 40° including 1' of	10-24	5.0	0.002			
	chlorite; last 1.5' well fractured @						
	70° & silicified						
	586-694 colour changes to pale green, less						
	fractured, odd well defined qtz str. @ 70°						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-10

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz		PRODUCT	
					576		
576.0-581.0	fractures conc. @ 40° & 80°, 1% py	10-25	5.0	0.026		0.13	
581-586	moderate fracturing @ 80°	10-26	5.0	0.034		.17	
586-591	3" & 1" qtz str. @ 80°, mod.	10-27	5.0	0.034		.17	
	fracturing, silicif., 1% pyrite						
591-595.5	4" qtz str. @ 80°, mod. fracturing	10-28	4.5	0.056		.252	
595.5-597.5	1" & 2" qtz str. @ 75°, sli. pyrite	10-29	2.0	0.127		.254	
597.5-601.5		10-44	4.0	0.024		.096	
601.5-607.0		10-45	5.5	0.042		.231	
601	2" qtz-chlorite str. @ 45°						576'
607-612	2' & 1" qtz strs. @ 75°, few chl.fract.	10-30	5.0	0.048		.24	.052
612-616	few fractures	10-31	4.0	0.014		.056	84' 660'
616-621	2-2" qtz strs. @ 75°	10-32	5.0	0.028		.14	
621-626	2-½" qtz strs. @ 70°, good splash VG	10-33	5.0	0.057		.285	VG
	in pyrite cube						
626-631	3" qtz str. @ 75°, few fractures	10-34	5.0	0.042		.21	
631-636	1" qtz str. @ 75°, slight pyrite	10-35	5.0	0.107		.535	
636-641		10-46	5.0	0.092		.46	631'
641-644.6		10-47	3.6	0.026		.094	.074 29'
644.6-651.7	2-2" qtz strs. @ 75°, few fract.sli.py	10-36	7.1	0.038		.27	660'
651.7-656.0	moderate fracturing, sli. rusty py	10-37	4.3	0.024		.103	

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-10

TOWNSHIP ..... PAGE NO. 6

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/oz		Product	
	656.0-660.0	10" qtz v. @ 75°, slight pyrite	10-38	4.0	0.173	660	.692	
	660.0-666.5	only 5' core; well fractured, sli. py	10-39	6.5	0.010			
	666.5-671.5	6" qtz str. @ 70°, slight pyrite	10-40	5.0	0.018			
	671.5-675.5	3" qtz str. @ 70°, slight pyrite	10-41	4.0	0.032			
	678	2" qtz str. @ 70°						
	686-694	only 7' of core, well fractured, 1"	10-42	8.0	0.002			
		qtz str. @ 70°			0.010			
694	END.							

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY POMINEX LTD. HOLE NO. 84-11

TOWNSHIP Macklem Township PAGE NO. 1

LOCATION Line 16 West
Station 3+00 South
(metric grid)
ELEVATION same as 84-8

CORE LOCATION #34 Warehouse - Airport Road
DIRECTION South (est.)
DIP 50°
DEPTH 577'

STARTED March
COMPLETED March 24, 1984
DIP TESTS 220' - 48°
577' - 43°

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
0 - 217	Casing (overburden).						
217 - 413	Felsic Porphyry Dyke: grey to pale green, very						
	hard aphanitic with scattered white feldspar						
	phenocrysts, variably fractured throughout.						
	222.0-227.0 lightly fractured, some pyrite	11-1	5.0	0.002			
	227-232 moderate fracturing mainly at 80°	11-2	5.0	0.032			
	232-237 moderate fracturing at 20-30°, some	11-3	5.0	0.006			
	rusty pyrite						
	237-242 heavy chloritic fracturing with 1'	11-4	5.0	0.022			
	of brecciation, fracture filling						
	partially leached						
	242-247 ½" qtz str. @ 30°, some fracturing,	11-5	5.0	0.016			
	1% rusty pyrite						
	247-252 2-1" vuggy qtz strs. @ 80° & few	11-6	5.0	0.016			
	fractures, 1% pyrite						
	252-257 in last ft. ½" qtz str. @ 10°, light	11-7	5.0	0.006			
	fracturing, slight pyrite						
	257-262 ¼" & ½" vuggy qtz strs. @ 10°, sli.	11-8	5.0	0.016			
	rusty pyrite						

Drilled By Norex

Signed
SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-11

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
262-267	moderate fracturing & silicif. ½" qtz str. @ 10°, slight pyrite	11-9	5.0	0.010			
267-272	few fractures, partial silicif. & slight pyrite	11-10	5.0	0.020			
272-276	well fractured, slight pyrite	11-12	4.0	0.002			
276-280	broken and moderately fractured, slight pyrite	11-13	4.0	0.002			
280-287	inclusion of med. green, speckled volcanic ? @ 40°	11-14	7.0	0.004			
285-287	core ground						
287-289	obscure VG in dirty grey ¼" qtz str. @ 45°, remainder--volcanic inclusion -- well fractured with pyrite	11-15	2.0	0.224			.224 / 2'
289-292	volcanic inclusion; as above	11-16	3.0	0.002			
292-297	few 80° fractures in porphyry	11-17	5.0	0.008			
297-302	well fractured, slightly vuggy	11-18	5.0	0.002			
302-307	sli. fracturing	11-19	5.0	0.002			
307-312	last foot is amygdaloidal volcanic	11-20	5.0	0.002			
312-318	amygdaloidal having sharp chilled contact with F.P.	11-21	6.0	Tr			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-11

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	318-322	broken & moderate fracturing	11-22	4.0	0.002			
	322-327	fractured, partially silicif.	11-23	5.0	0.014			
	327-333	slightly fractured & silicified	11-24	6.0	Tr			
	333-337	mafic dyke @ 35° for 1st 2';	11-25	4.0	0.004			
		remaining F.P. lightly fractured						
		& silicified						
	337-342	2' of brecciation including 3" of	11-26	5.0	0.016			
		cave represents fault followed by						
		well fractured porphyry						
	342-347	2 ½" qtz-carb strs. @ 80°, 2' of	11-27	5.0	0.066			.066/5'
		greenish-brown (sericite ?) inclusion						
		contains abundant pyrite						
	347-352	highly broken & fractured at 0-45°	11-28	5.0	0.002			
	352-357	as above, slight pyrite	11-29	5.0	0.002			
	357-362	well fractured, slight pyrite	11-30	5.0	0.030			
	362-367	well fractured, some sericite	11-31	5.0	0.022			.03/15'
	367-372	1.2' of mafic dyke @ 40°, moderate	11-32	5.0	0.038			
		fracturing, slight pyrite						
	372-377	moderate fracturing, sli. pyrite	11-33	5.0	0.004			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - I-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-11

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	377-382	moderate fracturing mainly @ 35°	11-34	5.0	0.002			
	382-387	moderate fracturing	11-35	5.0	0.002			
	387-392	last 1' is well silicif.; otherwise	11-36	5.0	0.004			
		mod. fracturing						
	392-397	well fractured, partially silicified	11-37	5.0	0.010			
		slight pyrite						
	397-403	90% secondary qtz mostly from	11-38	6.0	0.022			
		silicification, moderate fracturing,						
		1% pyrite						
	403-408	moderate fracturing mainly @ 80°, 1%	11-39	5.0	0.022			
		pyrite						
	408-413	contact zone with F.P.; well	11-40	5.0	0.026			
		fractured contact parallels core						
		axis for 3'; few spots of peculiar						
		green mineral (malachite) along						
		contact						
413 - 577	Felsic to Intermediate Pillow Lava: dark to med.							
	green, very hard; initially pillows rather obscure							
	then marked by amygdaloidal selvages containing							

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-11

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
	chlorite, epidote, carbonate; odd fracture with						
	abundant smeared pyrite,						
577	END.						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY: POMINEX LTD. HOLE NO.: 84-12

TOWNSHIP: Macklem Township PAGE NO.: 1

LOCATION: Line 15+40 West
Station 2+94 South

CORE LOCATION: #34 Warehouse - Airport Road

DIRECTION: South (ast.)

DIP: 61°

DEPTH: 750'

STARTED: March 25, 1984

COMPLETED: March 31, 1984

DIP TESTS: 140' - 59°
750' - 55°

ELEVATION:

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
0 - 135	Casing (overburden).						
135 - 750	Felsic Porphyry Dyke: pale green to grey, very hard, aphanitic with scattered white feldspar phenocrysts; pale green zones appear to be caused by hydrothermal action.						
	135 mostly pale green, few very narrow up to ½" qtz strs.						
	135.0-142.0 rusty patches after pyrite						
	154-158 rusty patches						
	158.7-163.7 1.5' fractured & silicified with 1% pyrite	12-1	5.0	0.039			
	163.7-168.7 1/8" qtz-pyrite seam @ 80°, sli. py	12-2	5.0	0.010			
	168.7-173.7 few fractures, sli. diss. pyrite	12-3	5.0	0.022			
	173.7-178.7 rust patch is after minor pyrite	12-4	5.0	0.004			
	178.7-183.7 2' rusty section after pyrite	12-5	5.0	0.216			
	183.7-188.7 few ¼" qtz strs. & fracturing @ 50°	12-6	5.0	0.014			
	207.5-213.0 1' rust patch, some silicif., sli. pyrite	12-7	5.5	0.018			
	223 1' rust patch						

Drilled By: Bradley Bros.

Signed:

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-12

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	244.0-249.0 silicif. with few pyritized	12-8	5.0	0.040			
	fractures						
	256-261 rusty patches, some cave	12-9	5.0	0.012			
	300-305 rusty	12-10	5.0	0.020			
	308-313 rusty patches	12-11	5.0	0.038			
	313-318 6" silicif., 6" rusty patch	12-12	5.0	0.002			
	318-323 moderate pyritized fracturing @ 20°	12-13	5.0	0.006			
	323-328 sli. pyrite diss.	12-14	5.0	0.030			
	351-356 3' of silicif., well fractured @ 45°	12-15	5.0	0.010			
	with pyrite						
	356-361 6" fracture zone	12-16	5.0	0.002			
	361-366 few pyritized fractures, sli. py	12-17	5.0	0.022			
	366-371 few pyritized fractures, 1" qtz str.	12-18	5.0	0.070	0.35		.053/10'
	371-376 few pyritized fractures	12-19	5.0	0.036	0.18		
	376-381 2.5' bleached silicified section	12-20	5.0	0.020			
	with diss. pyrite, vuggy contact @						
	70°, other contact @ 50° is						
	carbonaceous and pyritized; 1" qtz						
	stringer						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-12

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	381.0-386.0	2' fractured and rusty after pyrite	12-21	5.0	0.022			
	402.5-407.5	moderate chloritic fracturing	12-22	5.0	0.010			
	407.5-422.7	pale green with sli. diss. pyrite						
	422.7-426.0	2 ½" qtz strs. @ 70° which cut py	12-23	3.3	0.052	.1716		
		seams @ 35°; variably silicified						
	426-431	3 ¼" qtz strs. @ 70°, sli. py diss.	12-24	5.0	0.030	.150		
	431-436	2 ½", 1" qtz str. @ 75°, sli. diss.	12-25	5.0	0.044	.22		
		pyrite					.039/23.3'	
	436-441	3 ½" qtz strs. @ 75°, partially	12-26	5.0	0.036	.18		
		silicified, sli. pyrite						
	441-446	2" qtz str. @ 80°, 2 ½" pyritized	12-27	5.0	0.038	.19		
		strs. @ 60° in grey mottled rock				.9116		
	446-451	1% pyrite, some incipient fractures	12-28	5.0	0.016			
	451-456	10" of silicif. @ 80°, 2-1" qtz strs.	12-29	5.0	0.022			
		@ 75°, few pyritized fractures @ 40°						
	456-461	silicified &/or grey mottled,	12-30	5.0	0.052		.052/5'	
		pyritized fractures @ 40°						
	461-477	few fractures, slight pyrite						
	477-482	diss. rusty pyrite, mod. fracturing	12-31	5.0	0.020			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-12

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	482.0-487.0	grey to green, few fractures, sli. py	12-32	5.0	0.044			
	487-492	as above	12-33	5.0	0.026			
	491.2-493.0	soft grey mafic dyke @ 45°						
	492-497	fractured @ 10°, grey to green	12-34	5.0	0.028			
		colour						
	497-502	2" grey qtz @ 45°, 2' of silicif.	12-35	5.0	0.034			
		with mod. fracturing						
	502-507	partially silicif., light fracturing,	12-36	5.0	0.052			
		slight pyrite						
	507-512	last 3.5' is soft grey intensely	12-37	5.0	0.010			
		fractured mafic dyke @ 45°						
	512-517	slightly fractured & silicified	12-38	5.0	0.004			
	517-526	as above						
	526-531	2-2" qtz strs. @ 70°, partial	12-39	5.0	0.038			
		silicif., slight pyrite						
	531-536	silicif., mod. incipient fracturing	12-40	5.0	0.022			
		mainly @ 45°						
	536-541	1" qtz str. @ 70°, 10" silicif., 1%	12-41	5.0	0.010			
		diss. pyrite						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-12

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES		FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	541-546	1" qtz str. @ 70°, 3' of silicif. @	12-42	5.0	0.020			
		30°, black pyrite seam						
	546-551	1" qtz str. @ 70°, moderate chloritic	12-43	5.0	0.008			
		fracturing mostly paralleling core,						
		1% pyrite						
	551-556	10" qtz str. @ 70°, 10" silicif.,	12-44	5.0	0.044	.22		
		1% pyrite						
	556-559	partialy silicif., last 1' is dark	12-45	3.0	0.030	.09	.066 / 13'	
		grey, slight pyrite						
	559-564	3' is dark grey with 45° fractures,	12-46	5.0	0.111	.555		
		3" qtz str. @ 70° in pale green				.865		
		section						
	564-569	1" & 3" qtz strs. @ 70° in pale green	12-47	5.0	0.014			
		silicif. section, slight pyrite						
	569-574	silicif. along 60° fractures in dark	12-48	5.0	0.010			
		grey rock, carbonaceous pyritic						
		seam @ 45° with silicif.						
	576-617	this section appears to represent						
		main gold zone; dirty grey colour						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-12

TOWNSHIP ..... PAGE NO. 6

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	574-579	some chloritic fractures & some silicif. fractures	12-49	5.0	0.008			
	579-582	silicif., 3" qtz str. @ 70°, 1% py	12-50	3.0	0.020			
	582-587	10" white qtz str. @ 70°, 1" qtz str. vuggy fractures	12-51	5.0	0.036			
	587-592	dirty grey colour, broken core, well fractured, rusty diss. pyrite	12-52	5.0	0.010			
	592-597	2", 1" qtz str. @ 75°, mod. fracturing pyrite seam @ 45°, 1% py	12-53	5.0	0.064	.32		
	597-600	mod. fracturing, 1% pyrite	12-54	3.0	0.128	.384		.066 / 18'
	600-605	2' well fractured with rusty euhedral pyrite	12-55	5.0	0.014	.07		
	605-610	partially brecciated; 6", 3-1" qtz strs. @ 70°; vuggy fractures, rusty pyrite	12-56	5.0	0.083	.415		
	610-615	3" qtz str. @ 70°, mod. fracturing, some pyrite	12-57	5.0	0.028			
	615-621	2-1" qtz strs. @ 70°, well fractured, silicif., pyrite	12-58	6.0	0.004			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-12

TOWNSHIP ..... PAGE NO. 7

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	621-626	moderately fractured @ 60°,	12-59	5.0	0.018			
		silicif., some pyrite						
	626-631	moderately fractured, then 2'	12-60	5.0	0.012			
		of silicif with 1% pyrite						
	631-636	2' of silicif., sli. pyrite	12-61	5.0	0.014			
	636-641	4" qtz str. @ 70°, few fractures @	12-62	5.0	0.042			
		70°						
	641-646	6" & 2" qtz str. @ 80°, partial	12-63	5.0	0.034			
		silicif., pyrite						
	646-651	1" qtz str. @ 80°, 2' of silicif. @	12-64	5.0	0.026			
		40°, slight pyrite						
	651-656	silicif. along old fractures, sli. py	12-65	5.0	0.030			
	656-660	1' of silicif. @ 45°, some pyrite	12-66	4.0	0.030			
	from 653	gradual change to pale green colour						
	660-665	few pyritized fractures	12-67	5.0	0.060		.06/5'	
	665-670	few qtz seams @ 10° & 90°	12-68	5.0	0.036			
	670-675.5	dark grey & unaltered	12-69	5.5	0.004			
	from 675.5	greenish-grey colour						
	675.5-680.5	mod. fracturing & silicified, 1% py	12-70	5.0	0.044			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-12

TOWNSHIP ..... PAGE NO. 8

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH .....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
680.5-685.0	3", 1" qtz str. @ 80°, partial silicif., few fractures, pyrite	12-71	4.5	0.024			
685-689	for 1.8' qtz str. //'s c.a., 2" qtz str. @ 80°, slight pyrite	12-72	4.0	0.014			
689-694	for 2" qtz str. //'s c.a.; later than 45 & 70° fractures, 1% pyrite	12-73	5.0	0.036			
694-698.5	fracture @ 70° filled with pale green soft mineral	12-74	4.5	0.040			
698.5-703.0	2" & 7" of white qtz @ 80°, 1.3' of grey silicif., few pyritized fractures	12-75	4.5	0.022			
703-708	90% grey silicif. & qtz //ing c.a. with pyrite @ contacts	12-76	5.0	0.022			
708-711	1" qtz str. @ 80°	12-77	3.0	0.006			
711-716	2" & 2-1" qtz strs. @ 80°, mod. fract. & silicif., 1% pyrite	12-78	5.0	0.008			
716-721	mod. fracturing, partial silicif., slight pyrite	12-79	5.0	0.004			
721-726	1' of silicif., some fractures @ 30°, 1% pyrite	12-80	5.0	0.006			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-12

TOWNSHIP ..... PAGE NO. 9

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	726-731	mod. fracturing, some silicif.,	12-81	5.0	0.020			
		slight pyrite						
	731-736	mod. fracturing, irreg. qtz &	12-82	5.0	0.020			
		silicif. over 1.5', 1% euhedral py						
	736-741	qtz seams & strs. @ 0-30°, few	12-83	5.0	0.014			
		fract., 1% pyrite						
	741-746	fractured mainly @ 50-70°, sli. py	12-84	5.0	0.002			
	742-746	colour changes to pale green						
	746-750	well fractured 10-80°, sli. pyrite	12-85	4.0	0.004			
750	END.							

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY: POMINEX LTD. HOLE NO.: 84-13

TOWNSHIP: Macklem Township PAGE NO.: 1

LOCATION: Line 15+40 West
Station 2+59 South
(metric grid)

ELEVATION: same as 84-12

CORE LOCATION: #34 Warehouse - Airport Road

DIRECTION: South (est.)

DIP: 61°

DEPTH: 877'

STARTED: April 2, 1984

COMPLETED: April 8, 1984

DIP TESTS: 130'-59°, 850'-50°
600'-Dip 64°, Dir. 208°M

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
0 - 126	Casing (overburden).						
126 - 877	Felsic Porphyry Dyke: pale green, very hard with white feldspar phenocrysts, occasional rusty patch after pyrite, odd silicified fracture, qtz stringer, sli. pyrite, locally over a foot or two colour is medium grey which apparently represents unaltered rock.						
	149-154 fractured @ 75° & rusty after pyrite	13-1	5.0	0.012			
	180-183 qtz strs. @ 20° over about 5", chloritized, rusty, slight pyrite	13-2	3.0	0.004			
	184-187 light coloured after inclusion @ 20° to c.a.						
	220-225 ½" rusty, irreg. qtz @ 222.7'	13-3	5.0	0.130			
	252-257 light to med. chloritized fracturing mainly @ 40°	13-4	5.0	0.002			
	257-262 pyritized & silicified fracturing along core	13-5	5.0	0.016			
	262-267 as above	13-6	5.0	0.002			
	from 250-350 mostly med. grey colour, i.e. unaltered						

Drilled By: Bradley Bros.

Signed: [signature]
SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-13

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	300-346	core is highly broken along						
		unmineralized fractures						
	318	1" barren qtz str. @ 60°						
	351.7	½" qtz str. @ 75°						
	350-421	generally pale green to light grey						
		colour						
	372.5-377.5	well fractured & silicified around	13-8	5.0	0.014			
		6" pale green inclusion, 1% pyrite						
	377.5-382.3	some fracturing, 6" rusty zone adj.	13-9	4.8	0.004			
		to 70° fracture						
	382.3-387.0	few pyritized fractures @ 35°	13-10	4.7	0.016			
	387-392	few fractures	13-11	5.0	0.276		.276/5'	
	392-396	few fractures, 1% pyrite	13-12	5.0	0.018			
	396-401	bleached & silicified for 4' adj. to	13-13	5.0	0.008			
		pyritized fracture @ 40°						
	401-406	10" rust zone, odd fracture	13-14	5.0	0.006			
	421-462	pale green to grey colour						
	431.5-433.5	pale green speckled intermediate						
		dyke @ 45°						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-13

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	450.5-456.0	mod. fracturing @ 75-30°, some	13-15	5.5	0.008			
		silicif., sli. pyrite						
	456-460	sli. fracturing	13-16	4.0	0.008			
	460-462	heavy chloritic fracturing @ 35°	13-17	2.0	0.002			
	462-481	med. grey colour						
	462-467	mod. fracturing, sli. pyrite	13-18	5.0	0.014			
	474-480	med. grey, silicified, 1% pyrite	13-19	6.0	0.002			
	480-485	light grey, strongly silicified @	13-20	5.0	0.004			
		35°, 3% pyrite						
	from 481	uniform light grey with occ. pale						
		green after sericite						
	485-490	1" silicif., few fractures, 1% py	13-21	5.0	0.022			
	490-495	2-1" qtz strs. @ 75°, 1% pyrite	13-22	5.0	0.012			
	495-500	few fractures & pyrite seams marking	13-23	5.0	0.036			
		silicif.						
	500-505	pyritized fracture @ 35°, 2-1" qtz	13-24	5.0	0.022			
		strs. @ 75°						
	505-510	sli. pyrite, sericite	13-25	5.0	0.044			
	510-515	few pyritized fractures	13-26	5.0	0.024			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-13

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/oz	Product		
	515-520	few pyritized fractures @ 35°	13-27	5.0	0.010			
	520-526	few pyritized fractures	13-28	6.0	0.030			
	526-531	1% diss. pyrite	13-29	5.0	0.024			
	531-534	few chloritic fractures	13-30	3.0	0.016			
	534-541	mod. pyritized & chloritic	13-31	7.0	0.014			
		fracturing, 2" qtz str.						
	541-546	grey highly fractured silicif., some	13-32	5.0	0.036	.18		541
		sericite + 1% pyrite, 3-½" qtz strs.						
		@ 75°						
	546-551	grey well fractured silicif., 2-½"	13-33	5.0	0.367	1.835	546	
		qtz strs. @ 75°, less than 1% pyrite						
	551-556	1" qtz str. @ 75°, light fracturing,	13-34	5.0	0.108	.54		.111/30'
		slight pyrite					.148/20'	
	556-561	light fracturing, 1" qtz str.,	13-35	5.0	0.052	.26		
		slight pyrite						
	561-566	light fracturing, few ¼" pink qtz	13-36	5.0	0.064	.32	566	
		strs. @ 80°						
	566-571	mod. chloritic & pyritized fracturing	13-37	5.0	0.040	.20		571
	571-576	mod. chloritic & pyritized fracturing	13-38	5.0	0.014			
		@ 75°						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-13

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	579.5-581.2 intermed. dyke @ 20° to c.a.						
	617-622 approx. 1' irreg. soft sericitic	13-39	5.0	0.205	1.025		617
	zone with 20% py, remainder lightly						
	fractured & silicif. mainly @ 45°						
	622-627 moderately fractured & silicif.,	13-40	5.0	0.020	.10		
	some pyrite						
	627-632 mod. fractured, 1% pyrite, silvery	13-41	5.0	0.028	.14		
	metallic						
	632-637 5" qtz str. @ 75° with pyritized	13-42	5.0	0.050	.25		
	contacts, mod. fractured with py						
	throughout						
	637-642.5 few chlorite & pink qtz-filled	13-43	5.5	0.014	.077		
	fract. @ 75°, 1% pyrite						
	642.5-647 1' qtz @ 70° with pyritic &	13-44	4.5	0.028	.126		
	chloritized contacts, remainder well						
	silicified with rusty pyrite						
	647-652 moderately fractured, some rusty	13-45	5.0	0.030	.15		
	euhedral pyrite						
	652-656 few fractures	13-46	4.0	0.004	.016		

.036
88'

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-13

TOWNSHIP ..... PAGE NO. 6

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
656.0-660.5	4", 3-1" qtz strs. @ 75° assoc. with silicif., 1% diss. pyrite	13-47	4.5	0.024	.108		
660.5-665	4-1" & 6" qtz strs. @ 75°, silicified some fracturing	13-48	4.5	0.010	.045		
665-670	1" & 2" qtz str. @ 75°, irreg. silicif. & fract. @ 50°, some py	13-49	5.0	0.018	.09		
670-675	mod. fractured, irreg. silicif., some rusty pyrite, sericite	13-50	5.0	0.012	.06		
675-680	6" qtz str. @ 75°, 1" chlorite with strong vuggy fracturing, some py	13-51	5.0	0.032	.16		
680-685	7" qtz str. @ 75°, mod. fractured, 1% pyrite	13-52	5.0	0.014	.07		
685-690	2-2" qtz strs. @ 75°, mod. fracturing & silicified	13-53	5.0	0.022	.11		
690-695	mod. fractured mainly @ 75°, partial silicif., 1% pyrite	13-54	5.0	0.024	.12		
695-700	3-1" qtz str. @ 75°, mod. fracturing slight pyrite	13-55	5.0	0.026	.13		
700-705	1" & 4" qtz str., mod. fracturing, slight pyrite	13-56	5.0	0.070	.35		705

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-13

TOWNSHIP ..... PAGE NO. 7

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION		SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	705-710	4" qtz str. @ 75°, mod. fracturing,	13-57	5.0	0.018			
		slight pyrite						
	710-715	½" & 1" qtz str. @ 75°, sli. fract.	13-58	5.0	0.036			
		& pyrite						
	715-720	few fractures, slight pyrite	13-59	5.0	0.016			
	734.5-739.5	bleached & silicified, some pyrite	13-60	5.0	0.012			
	744-749	very few pyritized fractures	13-61	5.0				
	749-754	4" grey qtz str. @ 45°, mod.	13-62	5.0	0.002			
		fracturing mainly @ 75°, 1% pyrite						
	754-759	few fractures, partially silicif.	13-63	5.0	0.012			
	759-764	irreg. silicif. cubes of pyrite	13-64	5.0	0.010			
		along fractures						
	764-769	few fractures	13-65	5.0	0.016			
	769-773	5-½" qtz strs. @ 75°, 1% pyrite	13-66	4.0	0.020			
	780.5-785.5	2" qtz str. @ 75°, bleached &	13-67	5.0	0.012			
		silicif., fractured mainly at 75°,						
		1% pyrite						
	785.5-790.5	odd fracture	13-68	5.0	0.008			
	790.5-795.5	bleached & silicified, mod. fracturing @ 75°, 1% pyrite	13-69	5.0	0.020			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-13

TOWNSHIP ..... PAGE NO. 8

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
795.5-800.0	2" soft green dyke or inclusion @ 45°, fractured @ 0°, some pyrite	13-70	4.5	0.018			
800-805	partial silicif., bleached, fractured, slight pyrite	13-71	5.0	0.006			
805-810	3-½" qtz-chlorite strs. @ 75° in green sericitic rock	13-72	5.0	0.020			
810-815	3 ½" shadowy qtz strs. @ 30°, sli.py	13-73	5.0	0.010			
815-820	few fractures, slight pyrite	13-74	5.0	0.008			
820-824	bleached pale green for 2' with few fractures, slight pyrite	13-75	4.0	0.018			
824-826	well silicified along // fracture, 1% pyrite	13-76	2.0	0.004			
826-831	80% silicified & fractured @ 40° & 0°, sli. pyrite	13-77	5.0	0.010			
831-835	mod. pyritized & chloritic fracturing marking irreg. silicif.	13-78	4.0	0.006			
835-840	mod. fracturing causing silicif.	13-79	5.0	0.010			
840-845	mod. fracturing @ 40°, sli. pyrite	13-80	5.0	0.014			
845-850	mod. fracturing @ 35° & 75°, silicif., some pyrite	13-81	5.0	0.008			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-13

TOWNSHIP ..... PAGE NO. 9

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES		FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	850-855	as above & also fract. @ 0°, slight	13-82	5.0	0.024			
		pyrite						
	855-863	light green & mod. fractured, ½"	13-83	8.0	0.022			
		chlorite seam @ 45°						
	863-868	well fractured & silicif. grey rock	13-84	5.0	0.010			
		with 1% pyrite, fractures @ 0°, 70°,						
		40°						
	868-873	as above but not so well fractured	13-85	5.0	0.008			
	873-876.5	green, soft, chloritized amygdaloidal						
		pillow lava ? as inclusion with sharp						
		contacts @ 020°						
	876-877	about ½ is silicified & pyritized	13-86	1.0	0.006			
		rock as above (13-84)						
877	END.							

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

ADDITIONAL SAMPLING

DIAMOND DRILL RECORD

PROPERTY POMINEX LTD. HOLE NO. 84-13

TOWNSHIP Macklem Township PAGE NO. 10

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
	612-617	13-87	5.0	0.008			
	576-581	13-88	5.0	0.002			
	581-586	13-89	5.0	Tr			
	586-591	13-90	5.0	Tr			
	591-596	13-91	5.0	0.002			
	596-601	13-92	5.0	0.004			
	601-606	13-93	5.0	0.002			
	606-612	13-94	5.0	0.002			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY: POMINEX LTD. HOLE NO.: 84-14

TOWNSHIP: Macklem Township PAGE NO.: 1

LOCATION: Line 16+00 West
Station 2+60 South

CORE LOCATION: M.N.R. - Timmins
DIRECTION: South (ast.)
DIP: 61°
DEPTH: 996'

STARTED: April 9, 1984
COMPLETED: April 17, 1984
DIP TESTS: 154'-62°, 255'-62°
535'-64°, 755'-62°, 996'-62°

ELEVATION:

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
0 - 154	Casing (overburden).						
154 - 263	Felsic to Intermediate Pillow Lava: grey-green,						
	hard, margin of pillows display amygdaloidal						
	texture which merges into massive centre,						
	selvages display feather-like spinifex testures						
	marked by chlorite, carbonate, epidote.						
	160-161 4" cream coloured felsic int. with	14-1	1.0	0.008			
	diss. pyrite						
	173-176 almost black, v.f.gr., med. soft,						
	intermediate dyke @ 45°						
	from 228-232 interstial flow breccia developed						
	in wide selvage zone, fragments are						
	up to 2" and include 1" geode, quartz,						
	black mafic rock & wallrock in						
	matrix of much smaller fragments						
	246 4" of qtz-chlorite @ 40°						
	259-263 2-1' sections of flow breccia @ 35°,						
	clasts up to 3" include wlrk (pillow						
	lava) serpentine and qtz; look like						
	slumpage faults						

Drilled By: Bradley Bros.

Signed: [signature]
SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-14

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
263 - 671	Intermediate to Mafic Pillows & Flows: green to						
	black, v.f.gr., massive with contacts @ 20°,						
	deeper rock becomes darker, softer, more massive,						
	with flow-like appearance i.e. amygdaloidal flow						
	tops similar to pillow selvages, other flow tops						
	display tiny vesicles; many contacts are at 40-						
	45° contrasting with normal 20-30° angle.						
	456-466 soft, green, semi-brecciated						
	throughout						
	466-475 displays variation of flow structure						
	586-598 flow breccia i.e. top						
	636-641 3% diss. pyrite	14-2	5.0	Tr			
	630-658 diss. pyrite, up to 3% locally						
671 - 742	Mafic Flow Breccia: medium green, soft, massive						
	except for breccia structure almost throughout,						
	fractures filled with black chloritic mineral						
	or occasionally carbonate.						
	743-766 9 to 10 ½" to 1" qtz strs. @ 70°						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-14

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz			
742 - 826	Mafic Volcanic Flows and Pillows: med. to dark						
	green, soft, chloritic & carbonatized.						
	798.3 ½" qtz str. @ 70°						
	807.5-810.5 2% diss. pyrite	14-3	3.0	0.002			
826 - 838	Volcanic Pillow Lava: pillows or bombs marked by						
	light coloured banded partially brecciated						
	selvages; 4 occurrences of irreg. buff coloured						
	felsic rock with gradational contacts up to 5".						
838 - 858	Mafic Volcanic Breccia: med. green, soft, massive						
	with mylonitic structure almost paralleling core						
	axis.						
858 - 903	Felsic to Intermediate Flow Breccia: light grey-						
	green with dark chloritic matrix.						
903 - 929	Felsic to Intermediate Breccia Tuff (Hyaloclastite):						
	fine alternating light green bands show abundant						
	slumpage & cross faulting, bedding generally //						
	to core axis.						
929 - 954	Mafic to Volcanic Flow Breccia: dark, finely						
	fractured with abundant epidote, some pyrite						
	probable carbonate.						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 84-14

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
954 - 996	Ultramafic Flow Semi-Breccia: fine grained, black, numerous irreg. fractures filled by serpentine or carbonate.						
996	END.						
	Survey Tests						
	Depth Direction(T) Dip						
	200' 185° ---						
	400' 183° ---						
	600' 180° ---						
	800' 185° 63°						
	Note: Casing left in hole and plugged.						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

Ontario

Ministry of
Northern Development
and Mines

NOTE TO FILE # 63.4363

THE FOLLOWING MATERIAL CONCERNING HOLE # 83-1 IS THE ONLY DIFFERENCE BETWEEN OMEP SUBMITTAL OM 83-5-C-246 AND OM 83-5-C-283. OM 83-246 CONTAINED THE FOLLOWING 10 PAGES THAT WERE NOT IN OM 83-283.

SHIELD GEOPHYSICS LIMITED
AIRPORT ROAD, TIMMINS, ONTARIO
MINING EXPLORATION CONSULTANTS & CONTRACTORS

TELEPHONE (705) 264-9405
MAILING ADDRESS:
P.O. BOX 630
TIMMINS, ONTARIO
P4N 7G2

February 15, 1984.

Pominex Ltd.,
1816 - 29 Adelaide St. E.,
Toronto, Ontario M5C 1Y2.

Attention: Mr. Don Rankin, President

Dear Sir:

Re: Hole No. 83-1
Macklem Township Property

In mid-December, 1983, hole 83-1 was drilled in the northeast sector (claim P25557) of the property. Drilled in a northerly direction, this boring was located to test the area immediately adjacent to the nose of an ultramafic intrusive as reflected by a magnetic survey conducted by Shield Geophysics Limited in November, 1983. Based on the geophysics, this area was interpreted as a potential zone of weakness perhaps hosting gold-bearing structures.

The drill log and appropriate section is attached. A thick series of intermediate to mafic volcanics, including massive flows, pillow lavas, flow and pyroclastic breccia, was intersected. An eight foot wide felsic dyke was intersected midway in the hole. Deeper, between 334.3 and 370.5, a peridotite intrusive was encountered.

There were no structures or mineralization intersected in the hole which might be associated with gold.

...2

OM83-5-C-246 ONLY

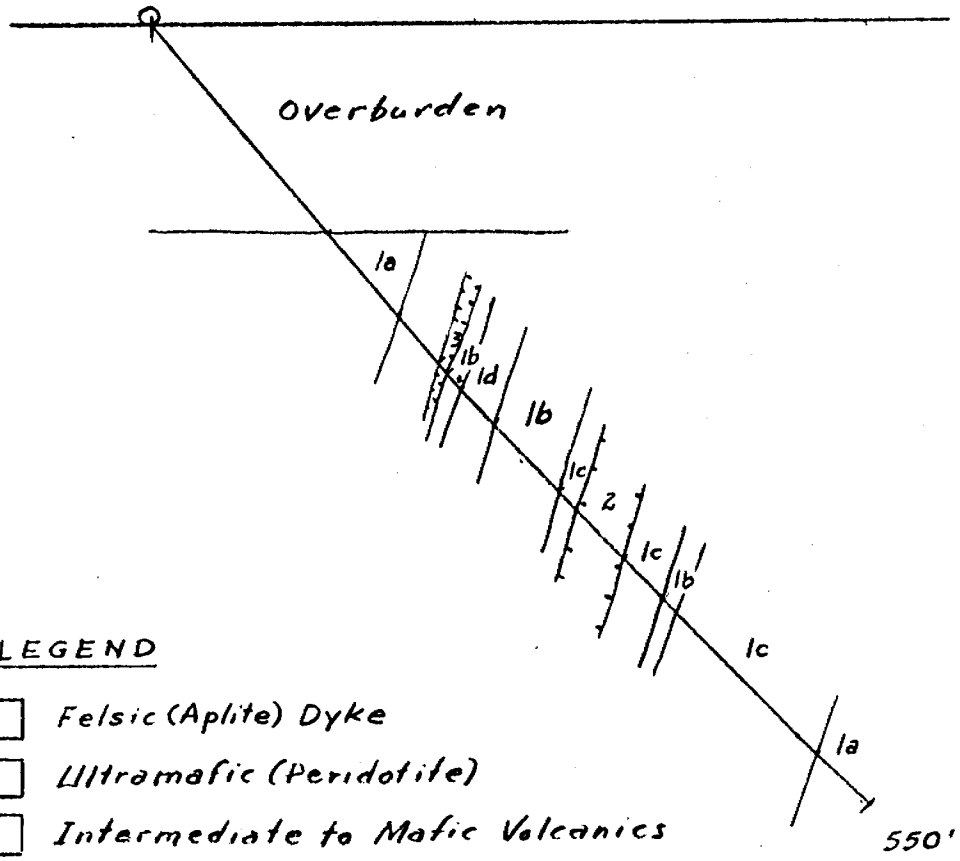
Apparently, termination of the magnetic high in this area does not represent complete pinching out of the ultramafic intrusive. The lack of a high magnetic response may represent deeper overburden, a narrower width of ultramafic (magnetic) rock, carbonatization of the ultramafic or simply a combination of the above.

Respectfully submitted,
SHIELD GEOPHYSICS LIMITED,

RJB:pd

R. J. Bradshaw, P. Eng.

Line 1+00E
Station 1+40S
83-1



LEGEND

3	Felsic (Aplite) Dyke
2	Ultramafic (Peridotite)
1	Intermediate to Mafic Volcanics

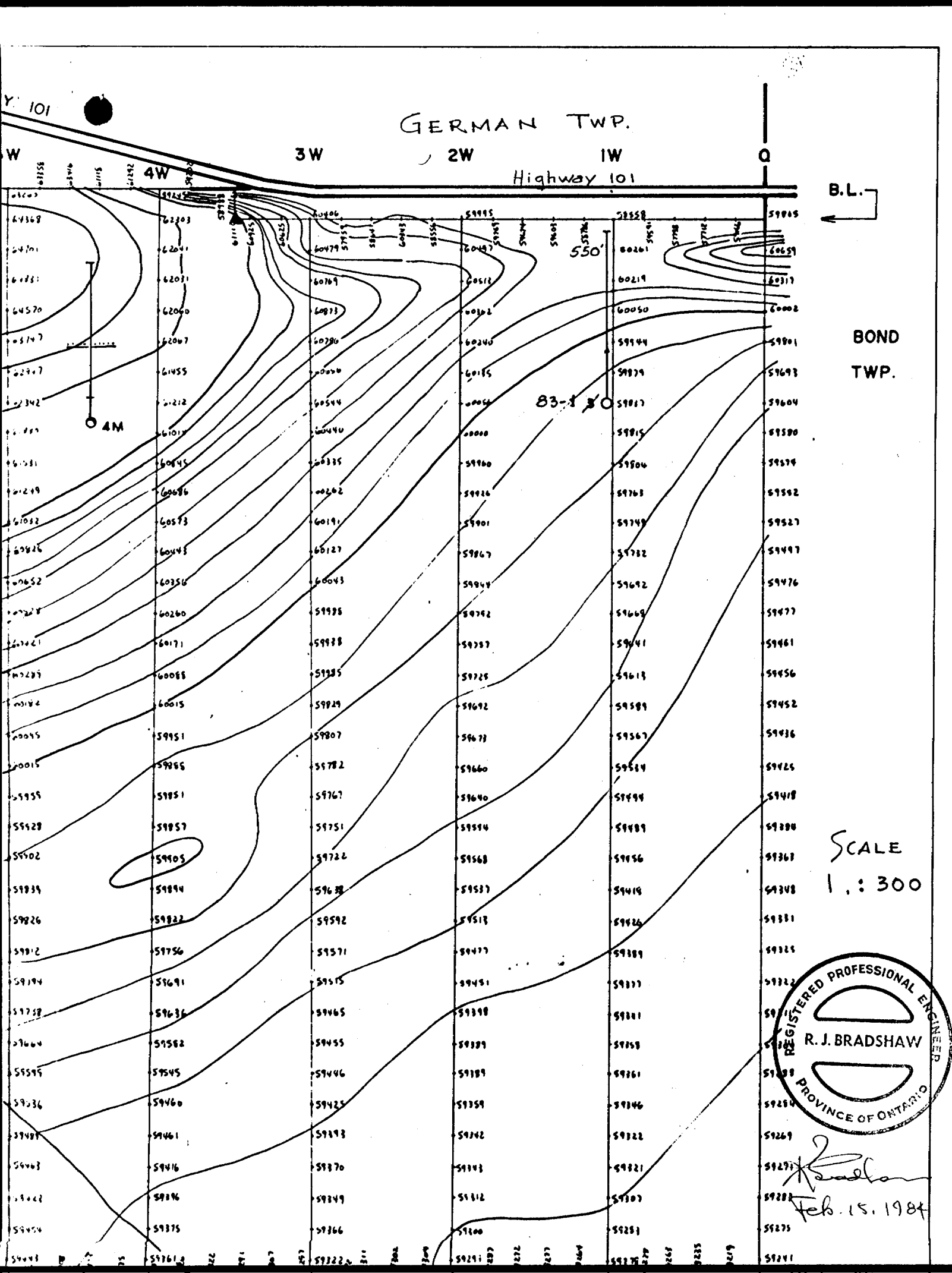
1a Amygdaloidal Pillow Lava
1b Massive Flows
1c Breccia
1d Agglomerate

REGISTERED PROFESSIONAL ENGINEER
R. J. BRADSHAW
PROVINCE OF ONTARIO

Feb. 15. 1984

POMINEX Ltd.
SECTION - HOLE 83-1
SCALE: 1" = 100'

February 1984


GERMAN TWP.
Y. 101
4W
3W
2W
1W
Q
Highway 101
B.L.
BOND
TWP.
550'
83-1 30
4M
SCALE
1 : 300
REGISTERED PROFESSIONAL ENGINEER
R. J. BRADSHAW
PROVINCE OF ONTARIO
Feb. 15, 1984

DIAMOND DRILL RECORD

PROPERTY POMINEX LTD. HOLE NO. 83-1

TOWNSHIP Macklem Township PAGE NO. 1

LOCATION Line 1+00E
Station 1+40 South
(metric grid)

ELEVATION

CORE LOCATION MNR Timmins

DATUM

BEARING North (ast.)

DIP 50°

STARTED December 16, 1983

COMPLETED December 21, 1983

DEPTH 550 feet
AQ core (1 1/16")

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
0 - 141	Casing (overburden).						
141 - 198.3	Intermediate to Mafic Pillow Lava &/or Flows:						
	medium to pale green, v.f. gr., lightly fractured						
	and partially carbonatized; flows & pillows marked						
	by vesicles and dark green chloritized interfaces;						
	some epidote; fractures filled by barren quartz and						
	carbonate.						
	153.4-154.4 grey vuggy qtz @ 50° to c.a.						
198.3 - 230	Intermediate to Mafic Volcanic Flow Breccia:						
	dark green massive mafic sections up to 2' with						
	pale green sections of angular fractured inter-						
	flow material; dark blue mafic sections and						
	fractures are serpentinized.						
230 - 238	Felsic (Aplite) Dyke: massive aphanitic, very						
	hard, siliceous rock; conchoidal fracture except						
	where low angle secondary cream coloured fractures						
	occur.						
238 - 246.5	Mafic Volcanic Flow: dark green, massive, v.f.gr.						
	lightly fractured.						

Drilled By Norex

Signed [signature] Feb. 1984

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 83-1

TOWNSHIP _____ PAGE NO. 2

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
246.5 - 274.9	Intermediate Agglomerate (Pyroclastic Breccia):						
	pale green, masses ranging from 3" to 3'; some						
	may be pillows, upper contact at 30°; some carb						
	in fine gash fractures, black mafic contact zones;						
	becoming more lightly packed deeper.						
274.9 - 322.9	Intermediate Volcanic Flow: pale green, v.f.gr.,						
	more massive except for prevalence of serpentine-						
	filled gash fractures near top perhaps representing						
	flow top.						
	288.0 becoming more massive						
	308.0 becoming less massive with pale green						
	irregular masses perhaps representing						
	bombs						
322.9 - 334.3	Intermediate Volcanic Breccia: upper contact at 45°,						
	pale green fragments with soft black serpentine						
	filling gash fractures and interstices, very						
	intense brecciation at start; rock becomes softer						
	deeper.						
	314.7 2' grey irreg. qtz stringer						

Drilled By _____

Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 81-3

TOWNSHIP _____ PAGE NO. 3

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
334.3 - 370.5	Ultramafic: black, fairly soft, massive except						
	for irregular carbonate-filled fractures; probable						
	intrusive periodite although upper contact						
	gradational.						
	366.4-368.3 soft, light grey-green talcose rock						
	366.8-368.0 core ground						
	369.8-370.3 light coloured xenolith ?						
370.5 - 400.5	Intermediate Volcanic: comprised of breccia of						
	flow material, agglomerate and pillows, gash						
	fractures filled by serpentine.						
400.5 - 409.3	Intermediate to Mafic Volcanic Flows: contact						
	poorly defined; medium green, fairly massive						
	with uniform fine dissemination of carb lathes.						
409.3 - 513	Intermediate Volcanic Breccia: comprised of flows,						
	agglomerate and pillows; pale green, v.f.gr.						
	dacitic pillows and fragments are extensively						
	fractured, gash fractures and interstices filled						
	by black serpentine; odd minor qtz and carbonate						
	stringer.						

Drilled By _____

Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 83-1

TOWNSHIP _____ PAGE NO. 4

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____ _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/ppb			
	444.9-446.3 8" qtz-carb str. @ 45°, few grains	1-1	1.4	15			
	of py and cpy						
	455.0-482.0 minor brecciation of pillow lava						
	482.0-503.0 more intense brecciation; secondary						
	fractures filled with carb, qtz and						
	occasionally clay mineral						
513 - 550	Intermediate Amygdaloidal Pillow Lava: contact						
	sharp at 70° to c.a., med. green to brownish;						
	well defined pillows with variably sized green						
	amygdaloids in brownish matrix; some epidote,						
	few serpentine-filled fractures.						
	540.0 3" barren qtz-carb stringer @ 45°						
550	END.						
	Dip test @ 550' - 41°						

Drilled By _____

Signed _____

SHIELD GEOPHYSICS LIMITED

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187. HAILEYBURY. ONTARIO TEL: 672-3107

Certificate of Analysis

NO. B79-84 DATE: January 27, 1984

SAMPLE(S) OF: Core (11) RECEIVED: January, 1984

SAMPLE(S) FROM: Mr. R. Bradshaw
Shield Geophysics Limited

Sample No.	Gold/ppb	Gold/oz.
1-1	15	
2-1	15	
2-2	487	
2-3		0.050**
2-4	278	
2-5		0.832**
2-6		0.372**
2-7		0.116**
2-8	670	
2-9	18	
2-10	88	

** Checked

BELL-WHITE ANALYTICAL LABORATORIES LTD.

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