

GM 44987

REPORT ON DIAMOND DRILLING,1 NOYON PROJECT Q-32

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SOCIETE EN COMMANDITE EXPLORATIONS KERY

REPORT ON

DIAMOND DRILLING

NOYON PROJECT Q-32



Ministère de l'Énergie et des Ressources
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SUMMARY AND RECOMMENDATIONS

The Noyon claims are located within the Casa-Berardi-Quevillon gold belt some 25 km south of Matagami, North-western Quebec.

A total of 11,608' from 16 holes has been diamond drilled by Kerr Addison on the property, these following somewhat detailed programs of geophysics and reverse circulation overburden drilling.

This phase of exploration consisted of approximately 90km of geophysical surveys and 9 diamond drill holes for a total of 6704', all of which was carried out between October and December 1986. Drill targets were selected so as to test four potential gold bearing environments. These being:

- A) Shear zones within a sill-like quartz-dioritic intrusive proximal to the intrusive-volcanic contact.
- B) Faulted HEM conductors within and proximal to the Transition Zone between volcanic and sedimentary rocks.
- C) The contact between volcanics and the Transition Zone.
- D) Major faults with proximal talc-chlorite ± carbonate schists.

This phase concentrated on testing type-targets B,C and D.

Some of the better gold intersections include:

	oz Au/t/ft
From KNO-86-02	0.015/5.75'
	0.022/5.0'
	0.010/3.5'
	0.022/2.9'
From KNO-86-03	0.021/3.5'
	0.015/9.0' incl. 0.051/1.0'
	0.081/7.5' incl. 0.107/1.25'
	0.010/5.0' 0.281/1.0'
	0.015/9.5'
From KNO-86-04	0.090/1.0'
	0.032/4.0'
	0.012/16.1'
	0.035/3.2'
	0.026/2.5'
From KNO-86-05	0.015/4.5'
	0.016/3.4'
	0.023/10.0'
	0.030/6.2'
From KNO-86-06	0.014/2.9'
	0.018/5.2'
	0.024/2.0'

ASSAY
ppb Au/m
< 50 ppb not
included

DEPTH
(m)

LITHOLOGY

KNO-86-08 to 11

No anomalous Au analyses.

KNO-86-12

81/ .13	100.48-100.61	Drag fold nose in sheared andesite. 3% Py.	Part of major fold system.
86/ .32	104.73-105.05	Fractures at 0° to CA 3% scale Py.	
80/ .48	161-89-163.37	Coarse andesite/diorite. Tr haematite. 3% leucoxene?	
1084/.65	164.73-165.38	Upper contact between mafic tuff and coarse andesite. 1-2% Py weakly brecciated.	
64/ .10	169.47-169.57	Argillaceous graphite. 50% Py associated with carbonate veining.	

KNO-86-13

76/ .34	100.68-101.02	Andesite tuff/hyaloclastite 70% sulphide (finely disseminated Py-2 phases)
---------	---------------	--

KNO-86-14

No anomalous Au analyses

KNO-86-15

136/3.04	96.32- 99.36	SLUDGE-core split, no anomalous Au values.
103/3.05	102.41-105.46	SLUDGE-core split, anomalous Au values.
583/ .74	104.27-105.01	Andesite/basalt 3% leucoxene Tr Py, Po.
133/ .87	105.01-105.88	As above-this and last sample interval has core with visible Cp+Sph above and 30% Py below.

From KNO-86-07	0.014/1.8'
	0.015/2.3'
	0.021/4.21'
	0.024/9.4' incl. .051/2.4'
From KNO-86-12	0.032/2.1'
From KNO-86-15	0.01/5.3' incl. 0.017/2.4'
From KNO-86-16	.031/9.8' incl. 0.044/5.5'
	0.01/2.2'

The drilling to date has partially tested these four type-target environments. Further testing of faulted HEM conductors within the Transition Zone is not warranted. Drill testing of shears around quartz dioritic intrusives (A) and along the major faults proximal to talc-chlorite schists (D), in areas having geochemically positive signatures from overburden drilling, hold the greatest potential for intersecting economical gold concentrations. After further review it is now believed that the northern contact of the Transition Zone, rather than the tested southern contact, is the same environment as that of the CANICO-Douay Township deposits located along strike approximately 15 km to the west - those being our closest potential producers.

To fully and finally assess the potential of this property, a \$181,500 program of diamond drilling plus minor geophysics is recommended to be carried out during the coming summer and fall months.

As outlined below this program can be divided into 3 smaller programs of \$27, \$70 and \$84,500 each. 2 of the target areas are in a 'drill ready' state, the third requires minor geophysics before drilling should commence.

Drill Testing Target-Type A:

- adequate geophysics complete
- 2300' of drilling at ~\$30.00/ft \$ 70,000.00

Drill Testing Target-Type D:

- 25 km of line cutting + geophysics \$ 20,000.00
- 2150' of diamond drilling \$ 64,500.00

Drill Testing of Northern Contact of
Transition Zone:

- 900' of diamond drilling \$ 27,000.00
- \$181,500.00

5 holes, totalling 3100' of drilling, are considered to be of 1st priority and could be completed at an approximate all inclusive price of \$100,000.00 .

INTRODUCTION

The Noyon claims, located in the south central portion of the Casa-Berardi-Quevillon gold belt, were staked in May '85 and April '86 by Exploration Kerr Addison Inc. as part of a regional exploration program for gold within the Abitibi Greenstone Belt of the Superior Structural Province, Northwestern Quebec.

Following line cutting, Max Min II, HEM and magnetic surveys, a program of reverse circulation overburden drilling was chosen as the most favorable method of exploration due to the extensive thick overburden cover.

Interpretation of the overburden results led to the targeting of 3 diamond drill holes completed during March 1986. Another 4 drill holes were bored during the month of June 1986 in an attempt to enlarge upon the anomalous intersections of the first 3 holes.

Between October to December 1986, detailed geophysical surveys were completed and a further 9 holes were diamond drilled through several untested targets across the property.

This report details the last phase of diamond drilling, provides an interpretation of the results and proposes a next phase of exploration for this property.

LOCATION AND ACCESS

The Noyon claims are located within the Casa-Berardi-Quevillon gold belt of the Abitibi Greenstone Belt in the Superior Structural Province of Northwestern Quebec. They lie some 25-30 km south of the zinc, copper and gold mining camp of Matagami, within the west central area of Noyon Township.

Access is by way of the 2 lane paved highway 109 from Amos to the Allard River. A gravel lumber road (800 N) cuts the western border of the property some 7 km south of highway 109.

The claim block is approximately 11 ½ km long x 1-3 km wide and consists of 171 contiguous unpatented mining claims. Appendix I contains a complete list of claim numbers.

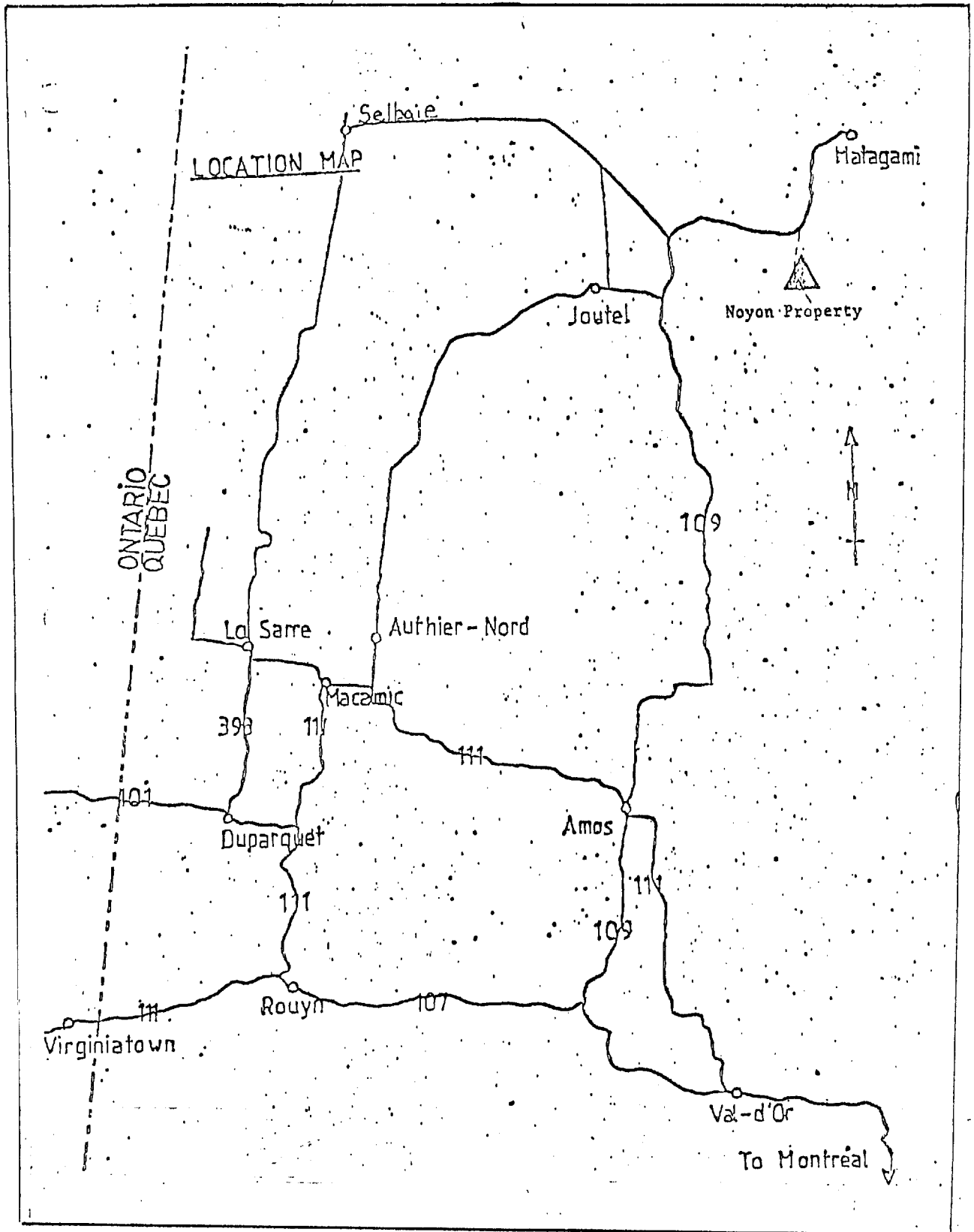
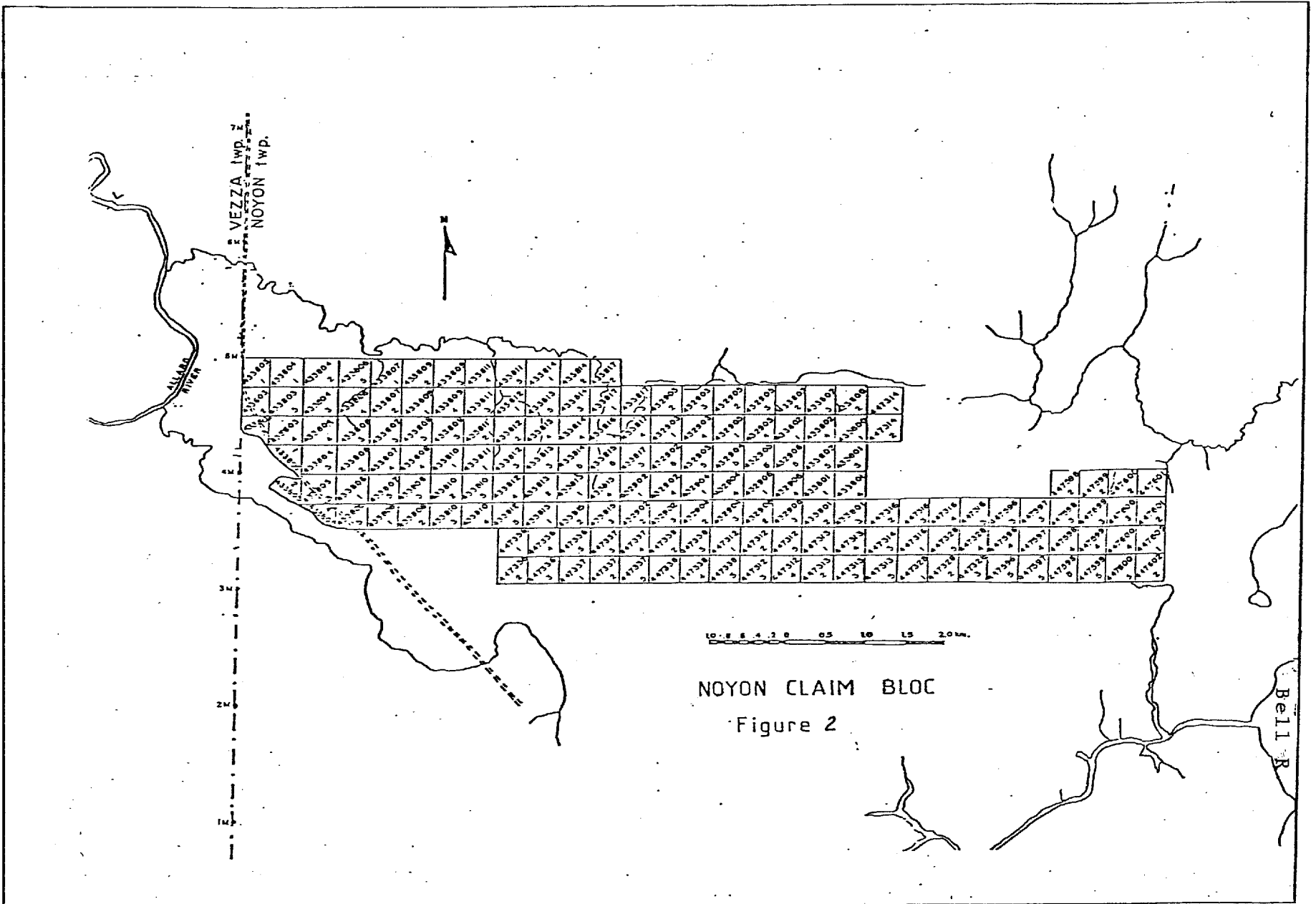


Figure 1: Regional Location

Figure 2



PHYSIOGRAPHY AND VEGETATION

The property is dominantly flat-lying. A WNW trending ridge with 1 small outcrop is located in the south-central sector (L 5+00 E 25+25 S). There are several small creeks with surrounding gullies. A water source for drilling under winter conditions may present problems in some areas.

Approximately 60% of the property is covered by sphagnum moss and scrubby spruce swamps. Stands of commercial spruce and pine are common in the well drained areas as are deciduous hardwoods.

PREVIOUS WORK

In 1958, two holes were drilled by the Matagami Syndicate in the west central area of the property. Pyrite plus minor copper and silver values have been reported.

Hubert Lake Ungava Nickel Mines diamond drilled 5 holes just north of the east central area of the property in 1958. Pyrite, pyrrhotite and minor copper was encountered in those holes.

Again in 1958 Canadian North Inca Mines Ltd. diamond drilled 6 holes in the eastern sector of the property. A belt of metasedimentary and pyroclastic rocks interbedded with volcanic lavas was outlined within which breccia and shear zones, resulting from major fault movement, were intersected. Several smaller shears were also intersected. Zones of massive pyrrhotite and pyrite and adjacent graphitic schists are associated with the shears. Their H.E.M. surveys defined the shears as strong conductors. Minor copper and trace gold and silver values have been reported.

In 1959 the Berthiaume group diamond drilled 8 holes in Vezza Township. Of these, 1 hole, located approximately 1.3 km north-west of our property, contained gold intersections of up to 0.23 oz/t/2.5'. Their highest Au values are from qtz. veins within schists proximal to syenitic dikes.

In 1981 Noranda bored 1 hole just north of the property's western sector. Metasediments containing graphite and massive pyrite and pyrrhotite were intersected. No assay values were reported.

Several geophysical surveys have been carried out on various sections of the Noyon claims. Detail of this work can be examined in the Quebec Government offices on the "Carte de Localisation des Travaux Geoscientifiques" sheet numbers 32F/12 and 32F/ 5 Maps 1 and 4 include interpretation of these surveys.

KERR ADDISON

The western 108 claims were staked for Kerr Addison in May 1985. In May and June '85 north-south lines were cut at 250 m spaced intervals over which total field magnetics and Max-Min II HEM surveys were completed.

Following geophysics, a fairly detailed program of reverse circulation overburden drilling was completed. This program consisted of 92 holes (8128 ') drilled on 250 m centers along 3 roughly east-west trending drill traverses having 500 m N-S separations.

Another 21 overburden drill holes totalling 2194' were put down in February 1986. (For a total of 113 holes equaling 10,322') These holes were drilled at close spacing (50-125 m) to zones of anomalous gold concentrations encountered in the 1985 program.

The overburden drilling located 4 zones of anomalous bedrock chips and 8 zones (18 till samples) containing free gold grains isolated in the heavy media concentration analyses. All basal till samples have been analysed by the standard fire assay method and by HMC followed by grain counts.

To test some of these anomalous zones, 3 diamond drill holes totalling 1986' were bored in March 1986.

An additional 63 contiguous claims were picked up in April 1986 to protect the ground surrounding a quartz diorite intrusive from which a number of the anomalous core samples were taken and to extend the property eastward to cover a potential sedimentary/volcanic contact.

After line cutting, detailed total field and gradient magnetics plus VLF-EM 16 surveys (125 m line spacings) were carried out over the central SE sector of the property by Kerrs' personnel.

Another 4 diamond drill holes totalling 2918' were drilled during June 1986. These holes were targeted at the same sheared quartz-diorite as 2 of the 3 holes drilled in March. Numerous anomalous gold values were returned from wide (up to 16') intersections bored in this phase.

The most recent phase of exploration, carried out between September and December 1986, was helicopter supported. It entailed line cutting of 100 m spaced lines over the 63 eastern claims followed by gradient, total field magnetics and HEM surveys. 9 holes totalling 6704' were drilled bringing the total footage diamond drilled on the property in 1986 to 11,608' (KNO-86-01 thru 16).

For details of the overburden drill programs see Mr. K. Kryklywy's August 1985 and May 1986 reports. For details of the diamond drill programs see this author's April and July 1986 reports.

GENERAL GEOPHYSICS

Grid No 1, covering the western third of the property is underlain by extremely conductive clays. There are no bonafide bedrock conductors evident from the Max-Min survey, anomalies indicated can be attributed to clay sheet pinch-outs surrounded by highly resistive gravels.

Grid No2, covering the central third is also underlain by a layer of conductive clay making it difficult to delineate bedrock conductors. A zone of multiple conductors has been detected immediately south of the 0 baseline between L 5+00 E and L 22+50 E. There is a strong possibility of the zone being disrupted by several parallel faults trending 015° to 020° . A 2nd possible bedrock conductor is located near L 12+50 E/ 8+00 S and may represent a weak shear along a contact of altered ultramafics and agglomeratic tuffs.

The SE sector, over which detailed magnetometer and VLF surveys were carried out is covered by deep overburden. A layer of conductive clay and a sand plain to the south have made interpretation of the gradient magnetics and VLF data somewhat suspect. The total field magnetics survey has been successful in more accurately defining the quartz dioritic intrusive within which exist several gold bearing shear zones. Unfortunately there appears to be no classic geophysical signature to the shears.

The geophysical data over the eastern 63 claims is much cleaner, most likely the result of better operator proficiency.

The source of a well defined spike in the gradient-magnetics data has been interpreted as the volcanic-Transition Zone contact. The total field magnetic pattern is useful in tracing lithological horizons, based on the intensity and distribution of the magnetic anomalies.

Numerous true bedrock conductors are evident from the Max-Min data and most trend approximately $90-110^{\circ}$ (parallel stratigraphy). Several of these were drill tested in the late 50's and were found to be the result of small to large scale shears/faults commonly with graphitic and/or sulphide concentrations. Only trace Au values were reported from some of these zones.

The geophysical signatures of the various lithologies encountered across the property include:

AGGLOMERATES/TUFFS:	Linear, high contour density, interbanded high and moderate value total field mag. Few true HEM conductors.
MAFIC VOLCANICS WITH TUFFS:	Semi-linear, moderate contour density, moderate value total field mag. Few true HEM conductors.
QUARTZ DIORITE:	Broad, low contour density, low value total field mag. Few true HEM conductors.

CHLORITIC SCHISTS:	Broad, low to moderate contour density, moderate to high value total field mag. Occasional HEM conductor.
TALC-CHLORITE <u>±</u> CARBONATE SCHISTS:	Linear low contour density, low value total field mag. Few true HEM conductors.
ANDESITE WITH SULPHIDES:	Linear, moderate to high contour density, high value total field mag. HEM conductors not uncommon.
TRANSITION ZONE:	Linear, moderate contour density, moderate to high value total field mag. Numerous HEM and INPUT conductors.
ARGILLITES/GREYWACKIES WITH TUFFS:	Linear, low contour density, high and low value total field mag, Several true HEM conductors. General lack of INPUT conductors.

Appendix IV contains a report by Mr. R. Turcotte of Val d'Or Geophysique Ltee. His report details the geophysical surveys carried out during this phase of exploration.

GENERAL GEOLOGY

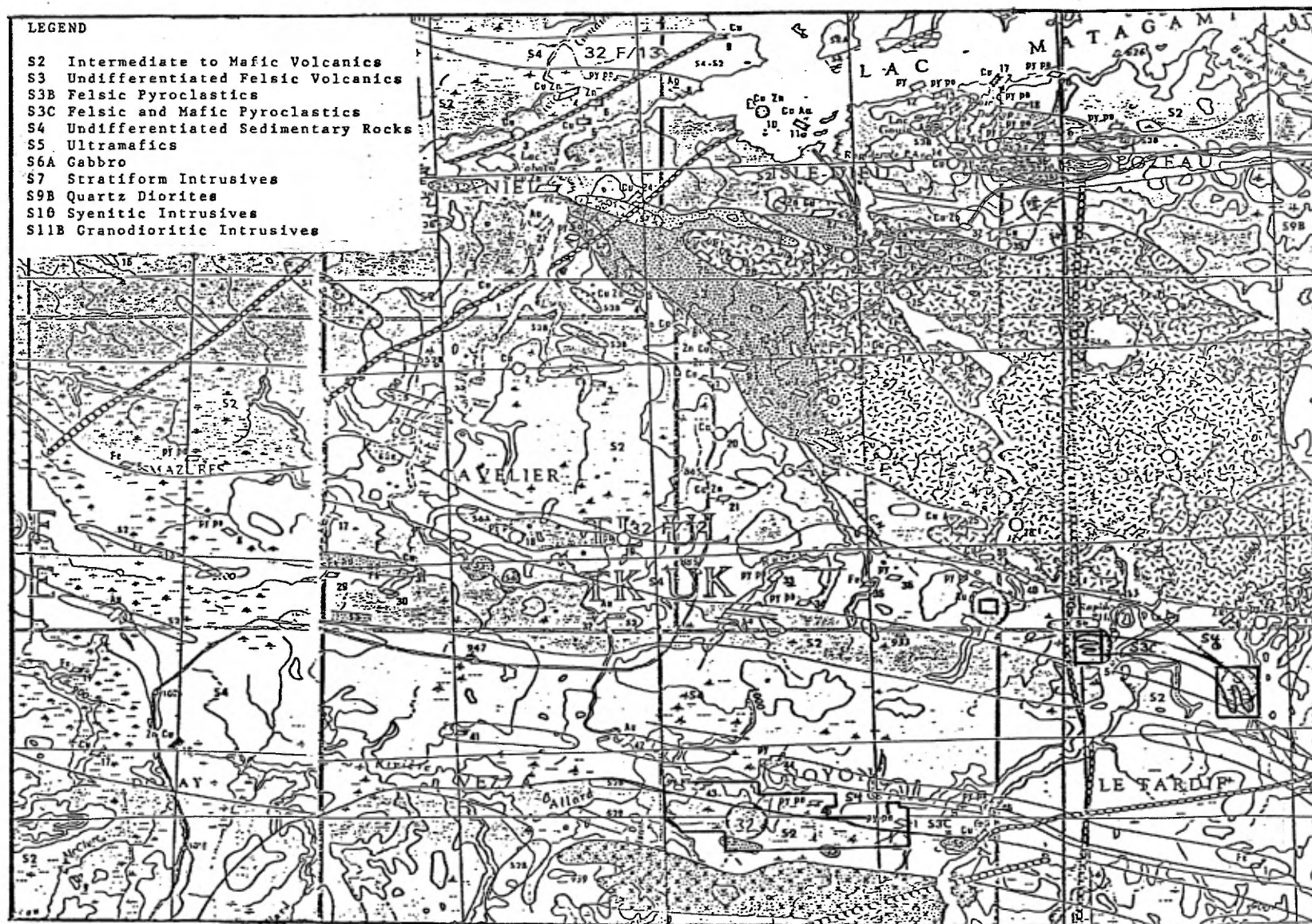
Noyon Township lies within the Casa-Berardi Quevillon gold belt. The area is covered predominantly by glacial drift, till and lacustrine clays.

Geophysical and geological interpretation show the Township to be underlain by roughly east-west trending horizons of mafic volcanics, argillaceous and minor conglomeratic sediments, iron formations and mafic to felsic volcanoclastics and intrusives. The north of the Township consists largely of sedimentary rocks, the south consists of volcanics - interbedded tuffs and flows. A 1 km wide east to southeast trending belt of felsic volcanics (undifferentiated) has been interpreted to exist just east of our property and a narrow, lenticular peridotitic unit some 10 km long is located $3\frac{1}{2}$ km north of the southern Township line. The Marest granodioritic batholith lies just south of the ultramafic. Several northeast trending dikes cut the Township.

All rocks are Archean in age except for the Proterozoic - age dikes.

The CANICO-Douay Township deposits are the closest potential producers, located along strike some 15 km to the west. They are detailed within the section on Property Geology and in the Discussion.

Figure 3: Regional Geology



PROPERTY GEOLOGY

Due to the extensive overburden cover, the geological compilation is necessarily based on interpretations of geophysical data, bedrock chips from overburden drilling and on the core from a limited amount of diamond drilling.(Map 4)

The property, located in the center of the Township, covers much of the ground overlying the Transition Zone between volcanic and sedimentary horizons. Although lithological correlations between holes has proven to be near impossible the property can be divided into 3 roughly east-west trending packages. It should be noted that contacts between the 3 zones are by no means definite.

The volcanic package, covering the southern half of the property consists of interbedded agglomerates and tuffs with lesser 'flow-facies' type rocks. Also included are several thin cherty exhalative-type horizons close to the contact with the Transition Zone. Several sedimentary wedges are found within the volcanics in the western third of the property, these possibly having been faulted into place. Two semi-lenticular quartz-diorite sills measuring some 3.5 km x 100-350 m and 1.6 km x 50-200 m are located within the volcanics in the central and south central sectors of the property. A 100-250 m wide east-west trending zone of talc-chlorite $\pm$ carbonate schists is found near the north contact of the volcanics within the western half of the property. (fig. 4, Map 4)

The Transition Zone between the volcanics and sediments is $\frac{1}{2}$ to 1 km wide and consists of interbedded andesitic hyaloclastites, argillaceous and graphitic sediments and felsic to mafic tuffs. Mafic tuffs are more common than felsic but there is an increase in the number of felsic tuffaceous horizons towards the east.

The northern contact of the Transition Zone (with sedimentary rocks) is now thought to be the same horizon as that containing the CANICO-DOUAY Township gold deposit located some 15 km to the west. This deposit contains 2 zones, one of 117,000 $\pm$ at .536 oz Au/t has a chert-pyrite-carbonate host, the other of 130,000 $\pm$ at .101 oz Au/t has a volcanoclastic (sandstone?) host located some 20' stratigraphically above the first.

The sedimentary package to the north is thought to be dominantly argillaceous intercalated with lesser greywackies, microconglomerate, iron formation and volcanoclastic facies.

STRUCTURE

Structural data is restricted to observations made from diamond drill core and to deductions made from geophysical surveys. The parameters measured from core include bedding (S_0), the dominant schistosity (S_1), a less well developed schistosity (S_2), stratigraphic tops direction, style of minor folds and vein orientations.

The data suggests that in the property area the geology strikes more or less east-west and has a vertical to steep (southerly) dip.

From west to east the main structural features of the property include:

- 1) A major NW trending fault having a dextral slip and several associated splay faults.
- 2) A major E-W trending, shear located within the zone of talc-chlorite schists.
- 3) A major NE trending fault having a sinistral sense of slip.
- 4) Several shear zones proximal to the quartz-diorite contact.
- 5) A regional scale WNW trending fault with several subsidiary splay faults.

Fining upwards of grainsize, number of amygdules increasing towards the top and clast composition of epiclastic rocks are the features of our drill core used to define the stratigraphic 'top'. The majority of the evidence suggests the western portion of the property is characterized by a tops south attitude and the eastern portion is characterized by tops north attitude. There are indications of a reversal of tops along the volcanic-Transition Zone contact suggested by tops south in KNO-86-11 and tops north in KNO-86-08.

The reversal plus the strong fold patterns intersected in holes KNO-86-12 to 14, these being the holes drilled along the interpreted contact, invite speculation towards the presence of a major E-W trending synclinal fold axis located along the volcanic-Transition contact. It is, however, noted that the property probably lies in the southern limb of a regional anticlinal fold structure and as such the major fold axis re-referred to above maybe no more than a part of one of numerous parasitic folds explaining several conflicting topographic indicators.

The numerous smaller scale structures intersected in drill core make the structural picture more complex than what it appears.

In the 3 type-target environments, described as; shears within diorites, major faults proximal to talc-chlorite + carbonate schists and to a lesser extent the volcanic-Transition Zone contact, structures appear to have been an important factor leading to gold concentrations.

ALTERATION

Various types and combinations of alteration have been observed in drill core from across the property including silicification, carbonatization, sericitization, haematitization, chloritization, serpentinitization, epidotization and biotitization.

Trends of alteration assemblages are not well defined but it can be said that:

- 1) All types occur to variable degrees and none are restricted to any one rock type.
- 2) No alterations are specific to samples anomalous in gold but in the type-target area described as shears within diorites carbonatization and sericitization are quite common and carbonatization is also common in the type-target area defined as major faults proximal to talc-chlorite ± carbonate schists.
- 3) The regional greenschist facies is prevalent across the property.
- 4) There is an increase in biotite concentration within coarse andesites/diorites along the Transition Zone-Volcanic contact towards the east but no apparent increase in Au concentrations.
- 5) The talc-chlorite ± carbonate schist located near the northern contact of the volcanics consists of interbedded felsic and mafic tuffs plus andesites; and rather than this being a broad zone of homogeneous alteration, the rocks have been subject to variable degrees of shearing, sericitization, haematitization and talcose alterations. Anomalous Au-bearing rocks are not common within the talc-chlorite schists proper but do exist near it's upper contact in KNO-86-16.

Serpentinization and minor asbestos is not uncommon in this environment proximal to the major fault systems.

- 6) A combination of haematitization and silicification in some quartz diorites has resulted in the formation of a massive, very hard, 'washed' pink rock. Sporadic Au values up to .035 oz Au/3.2' are associated with this alteration in KNO-86-04.
- 7) A combination of shearing, haematitization and sericitization in mafic tuffs and/or greywackies proximal to the major NW trending fault (KNO-86-16) has resulted in the formation of a schistose, soft, waxy pink rock commonly associated with pyrite and magnetite concentrations.

DIAMOND DRILLING

A total of 11,608' from 16 holes has been diamond drilled in 1986 on the Noyon property. This most recent phase, carried out between mid October and early December 1986, by Forages Dominik Inc., encompassed 9 holes equalling 6704' at an all inclusive price of ~\$33.60/ft.

A summary of the holes (location, targets, potential etc.) can be found in Table I. Complete logs comprise Appendix 5.

The diamond drill programs were designed to test four environments containing potential gold concentrations, these including:

- A) Shear zones within a sill-like quartz-dioritic intrusive proximal to the intrusive-volcanic contact (KNO-86-01 to 07).
- B) Faulted HEM conductors within and proximal to the Transition Zone (KNO-86-08 to 11).
- C) Contact between volcanics and the Transition Zone (KNO-86-12 to 14).
- D) Major faults with proximal talc-chlorite $\pm$ carbonate schists (KNO-86-15 and 16).

MINERALIZATION

Appendix 2 is a table of anomalous Au-bearing core samples - Lithology vs Analysis. Figures 5 a,b,c, illustrate the characteristics of these anomalous samples and show that for target-type A, rock type, alteration and structure are important as gold concentrating factors. For target-type C pyrite mineralization and to a lesser extent rock type are useful as pathfinders and for target-type D mineralization, rock type, structure and to a lesser extent alteration are important.

Further examination of Figure 5 a, reveals that samples taken from target A are not restricted to a particular lithology or structure but sheared/schistose, sericitized and carbonatized quartz diorites with quartz veining and finely disseminated pyrite are statistically the most likely candidates to contain anomalous gold concentrations. Anomalous assays in this environment range between 0.004 and 0.281 oz Au/t. Of the 581 core samples assayed, 50 (8.6%) contained > 0.01 oz Au/t. These results come from core bored between March and June. As they are not part of the KERY funded program the reader is referred to this authors' July 86 report for complete details.

Included in the KERY phase was drill testing of target-types B, C and D. 1013 core samples were sent to Bondar-Clegg of Ottawa via Chimitec of Val d'Or for fire assay/DC plasma analysis of gold.

Of the samples analysed 13 (1.3%) returned anomalous values between 50 and 1496 ppb Au (0.001 to 0.044 oz Au/t). Appendix 3 contains all the analysis reports.

No anomalous gold values were returned from core of holes drilled into target-type B (faulted HEM conductors).

The 3 holes drilled along the Transition Zone-volcanic contact (target-type C) returned 6 anomalous values including a best of .031/2.1'. Pyritiferous mafic volcanics and tuffs are the popular host in this environment.

The 2 holes drilled through major faults (target-type D) returned 7 anomalous values including .0029/9.8' and .044/5.5'. Structurally disrupted, altered, pyritiferous mafic volcanics are the most common host here.

FIGURE 5a: Characteristics of Anomalous Au Samples

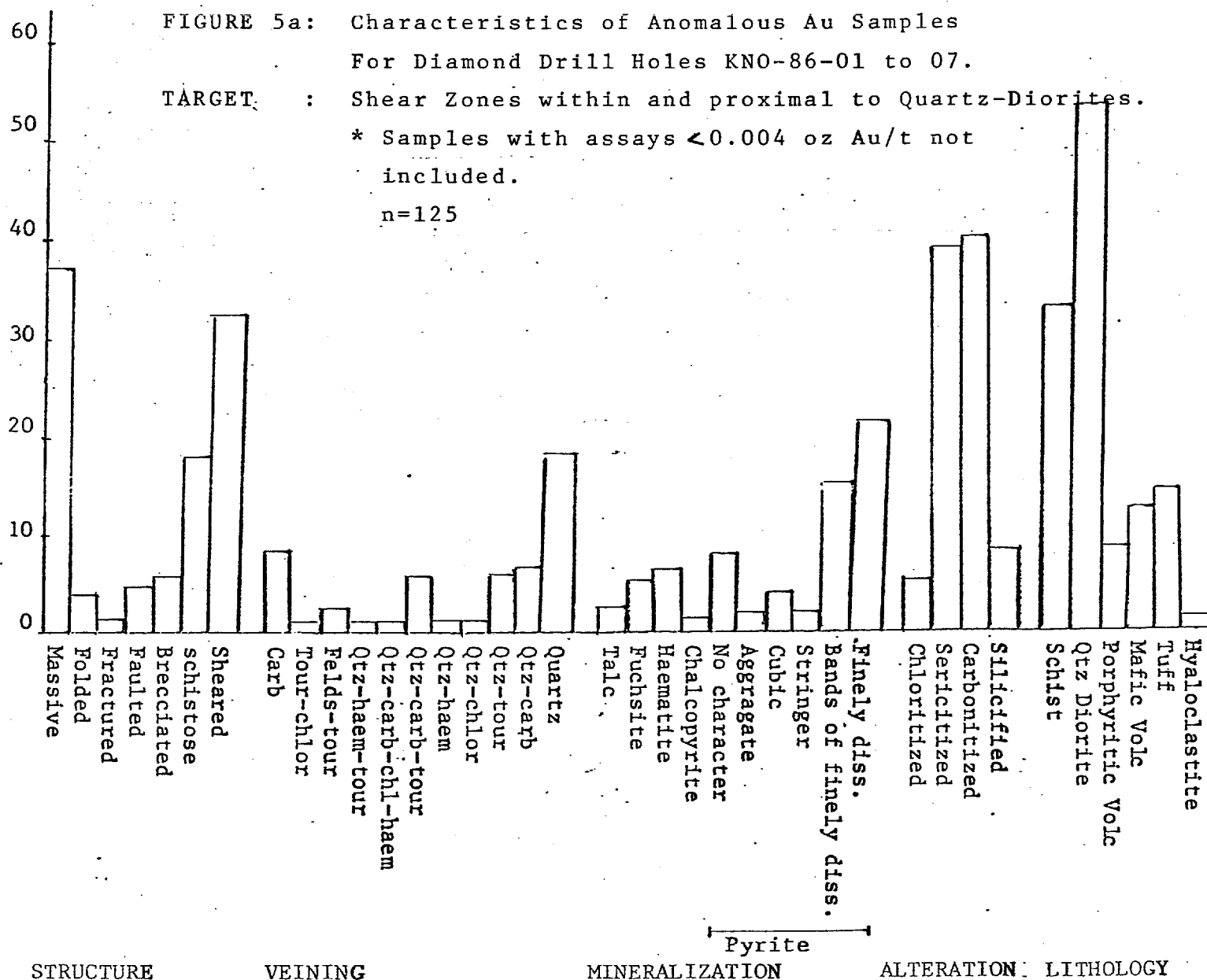
For Diamond Drill Holes KNO-86-01 to 07.

TARGET : Shear Zones within and proximal to Quartz-Diorites.

* Samples with assays < 0.004 oz Au/t not included.

n=125

No. of
Samples



STRUCTURE

VEINING

MINERALIZATION

ALTERATION LITHOLOGY

FIGURE 5b: Characteristics of Anomalous Au Samples
For Diamond Drill Holes KNO-86-12 to 14.

TARGET : Contact of Transition Zone with Volcanics.

* Samples with analysis < 50 ppb Au not included.

n=6

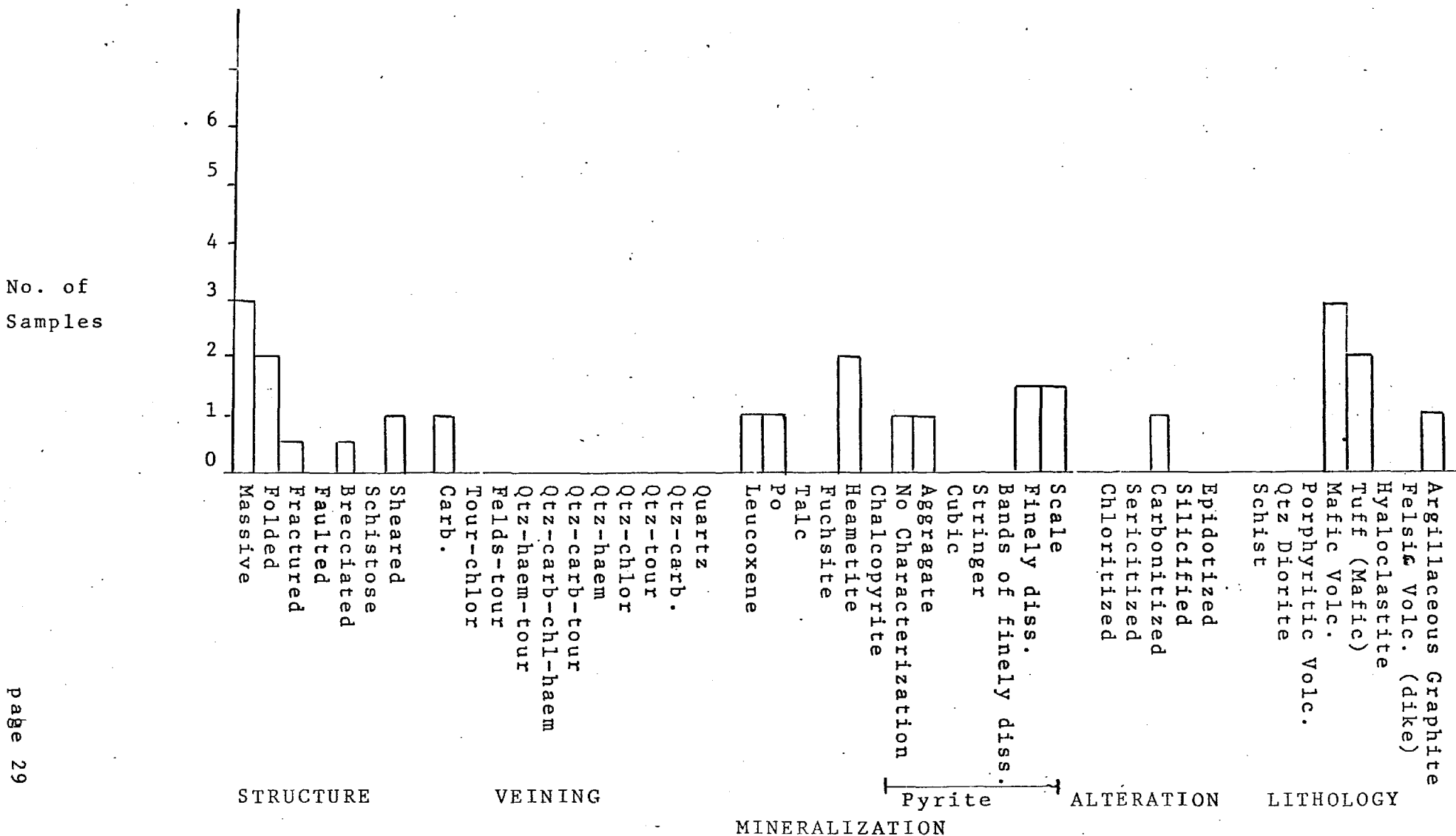


FIGURE 5c: Characteristics of Anomalous Au Samples
For Diamond Drill Holes KNO-86-15 and 16.

TARGET : Major Faults Proximal to Talc-Chlorite +
Carbonate Schists.

* Samples with analysis < 50 ppb Au not
included.

n=7

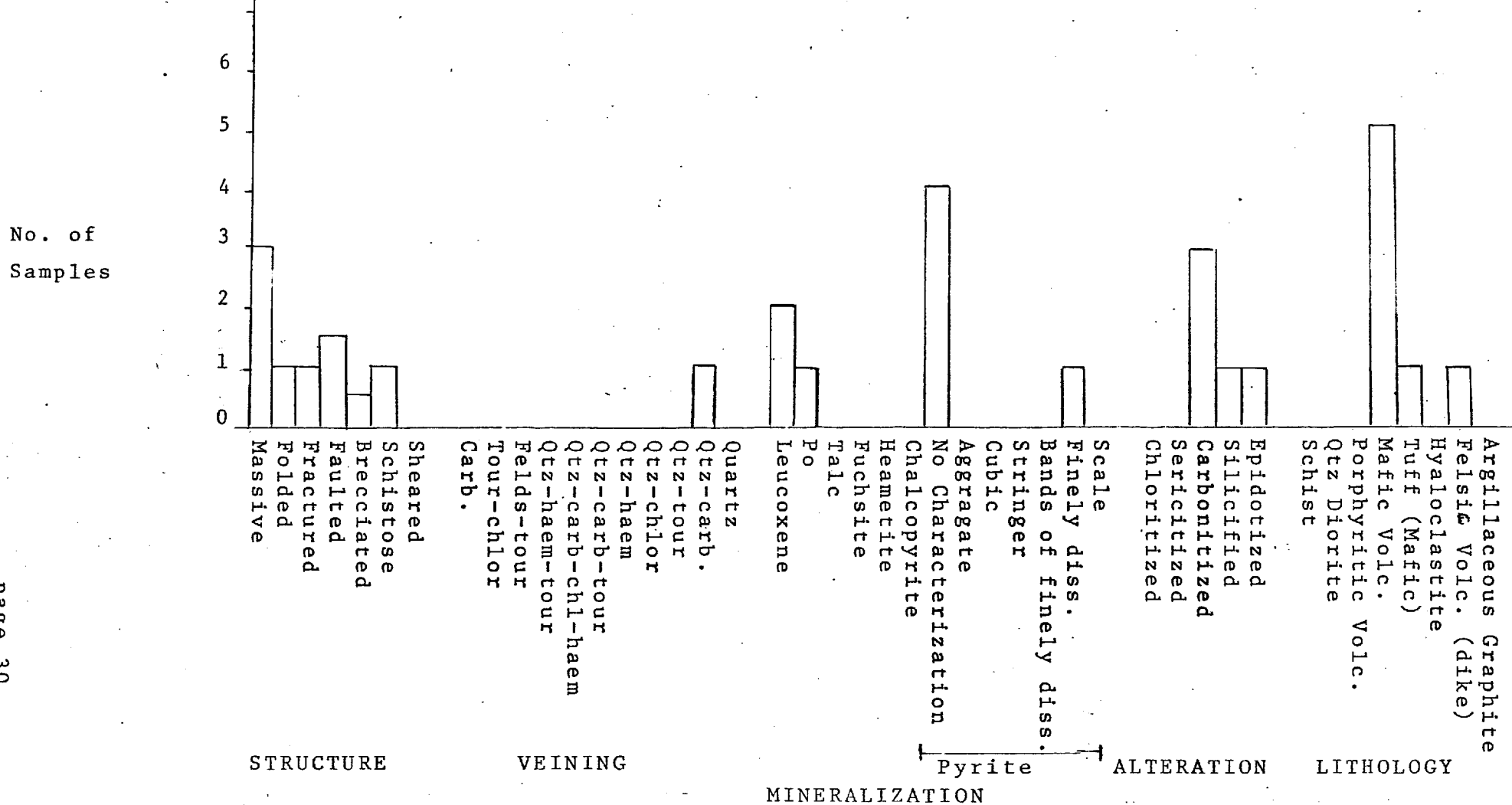


TABLE I: SUMMARY OF DIAMOND DRILL HOLES

PROJECT: NOYON Q-32

DDH NO.	LOCATION		AZI	DIP	LENGTH	TARGET	GEOLOGICAL ENVIRONMENT	RESULT	PRE ASSAY POTENTIAL	ECONOMIC POTENTIAL	ENVIRONMENT WARRENTS FURTHER DRILL TESTING
	GRID	COOR									
KNO-86-1	I	10+00W/ 13+85S	360°	-50°	685'	Source of anomalous bedrock chip sample from O/B drilling (4730 ppb Au)	Mafic volcanic/tuffaceous horizons proximal to major NE trending fault.	Interbedded volcs + tuffs. Qtz veining common. Source of B.R. chip anomaly not found.	Low	No significant Au assays except in sludge. Mod. potential.	Yes
KNO-86-2	II	2+50W/ 14+65S	360°	-50°	605'	Source of anomalous BR chips and tills. Tills: SA 39 ppb HMC 700-1445 ppb BR: 16-441 ppb	Contact between qtz-diorite and volcanics.	Interbedded volcs + tuffs + massive and sheared diorites. Source of O/B anomalies partially proven	Shear zones intersected. Good	.015/5.75' .011/2.5' .022/5.0' .009/7.0' .022/2.9'	Yes
KNO-86-3	II	2+50E/ 16+00S	360°	-50°	696'	Source of anomalous BR chips and tills. Tills: SA 20 ppb HMC 1055 ppb visible Au grains. BR: 12-45 ppb	Contact between qtz-diorite and volcanics.	Interbedded volcs + tuffs + massive and sheared diorites. Source of O/B anomalies proven.	Mineralization + shear zones intersected. Excellent	.021/3.5' .015/9.0' .081/7.5' +.107/1.25' +.28/1.0' .010/5.0' .015/5.0'	Yes
KNO-86-4	II	3+75E/ 16+50S	360°	-50°	756'	Eastern extension of gold mineralization in KNO-86-02,03.	Contact between qtz-diorite and volcanics.	Volcanics + massive + sheared qtz diorites + sericitic shists.	Mineralization and shear zones intersected. Good	.090/1.0' .032 /4.0' .012/16.1' +.042/2.2' .035/3.2' .026/2.5'	Yes

TABLE I: SUMMARY OF DIAMOND DRILL HOLES

PROJECT: NOYON Q-32

DDH NO.	LOCATION		AZI	DIP	LENGTH	TARGET	GEOLOGICAL ENVIRONMENT	RESULT	PRE ASSAY POTENTIAL	ECONOMIC POTENTIAL	ENVIRONMENT WARRENTS FURTHER DRILL TESTING
	GRID	COORD									
KNO-86-5	II	2+50E/ 16+30S	360°	-50°	756'	Down dip extension of gold mineralization in KNO-86-03.	Contact between qtz-diorite and volcanics.	Interbedded volcanics + massive and sheared diorites + sericitic schists.	Mineralization + shear zones intersected. 30' banded py zone intersected. Excellent.	.015/4.5' .016/3.4' .009/10.0' .023/10.0' .030/6.2'	Yes
KNO-86-6	II	1+25E/ 15+75S	360°	-50°	640'	Along strike extension of mineralization in KNO-86-2 to 5 Determination of structural and/or stratigraphic controls.	Contact between qtz diorite and volcanics.	Volcanics + massive and sheared diorites + sericitic schists	Mineralization + shear and fault zones intersected. Good	.014/2.9' .018/5.2' .024/2.0' .012/1.8'	Yes
KNO-86-7	II	0+00/ 15+57S	360°	-55°	766'	Along strike extension of mineralization in KNO-86-2 to 6.	Contact between qtz-diorite and volcanics.	Volcanics, tuffs, qtz diorites and sericitic schists Zones of carbonate vein concentrations.	Mineralization + shear zones intersected. Upper and lower contacts of qtz-diorite intersected. Excellent.	.013/2.8' .014/1.8' .015/2.3' .021/4.21' .02/1.6' .024/94' +.051/2.4'	Yes

TABLE I: SUMMARY OF DIAMOND DRILL HOLES

PROJECT: NOYON Q-32

DDH NO.	LOCATION		AZI	DIP	LENGTH (meters)	TARGET	GEOLOGICAL ENVIRONMENT	RESULT	PRE ASSAY POTENTIAL	ECONOMIC POTENTIAL	ENVIRONMENT WARRENTS FURTHER DRILL TESTING
	GRID	COOR									
KNO-86-08	II	12+50E/ 9+60S	360°	-50°	251.76 =826'	HEM conductor and flexure in total field magnetics containing h s + lo s.	Just south of transition zone between volc + sediments within volcanic package.	Interbedded volc. + seds. - largely volc., some dioritic sills. Conductor source questionable: vqj concentrations?	Thin exhalitives within volc. containing sulphide concentrations show promise.	No significant Au analyses Low potential	No
KNO-86-09	II	14+10E/ 2+40S	360°	-50°	242.62 =796'	Faulted HEM conductor.	Transition zone between volcanics + sediments.	Dominantly volcs. some breccia, fault intersected. Source of HEM conductor = graphitic argillites?	Qtz-Carb - Tourmaline veins with sulphide concentrations and sheared volcanics hold potential.	No significant Au analyses Low potential	No
KNO-86-10	II	7+50E/ 2+50S	360°	-50°	257.86 =846'	Environment about HEM conductor. Mag. i top ½, Mag lo bottom ½ of hole.	Transition zone between volcanics + sediments.	Dominantly volcanics some interbedded sediments + some breccia. Conductor source = graphite.	Local sulphide concentrations; local qtz-carb tourmaline vein concentrations.	No significant Au analyses Low potential	No
KNO-86-11	II	11+25E/ 3+55S	360°	-50°	199.9 =656	Environment about HEM conductor with relative mag lows and highs	Transition zone between volcanics + sediments.	1/3 sed. 2/3 andesite, minor diorite. HEM conductor source = argillaceous graphite, tops N.	Sulphide concentrates to 10% in volcanics with abundant vqj. Numerous local breccia zones. Encouraging.	No significant Au analyses Low potential	No

TABLE I: SUMMARY OF DIAMOND DRILL HOLES

PROJECT: NOYON Q-32

DDH NO.	LOCATION		AZI	DIP	LENGTH (meters)	TARGET	GEOLOGICAL ENVIRONMENT	RESULT	PRE ASSAY POTENTIAL	ECONOMIC POTENTIAL	ENVIRONMENT WARRENTS FURTHER DRILL TESTING
	GRID	COORD									
NO-86-12	II	22+50E/ 8+85S	360°	-50°	230.42 =756'	Moderate, narrow HEM conductor with slight Mag low suggesting intru- sive body. Sed/ volc. contact si- milar to CANICO.	Sedimentary-Vol- canic contact.	Interbedded tuffs andesites and sediments, 20m diorite sill. HEM caused by gra- phite. Fold hin- ge intersected.	Concentrations of f.d. Py to 60% in tuffs. Major structures, sulphide fracture fill. Encouraging	Strong fold structures with assoc. anomalous Au values. Ano- malous Au (to .032 oz/2.1') and sulphide con- centrations also assoc. with con- tact of Transi- tion Zone. Local environ- ment promising if larger struc- tures could be intersected.	Yes
NO-86-13	II	32+50E/ 15+80S	360°	-50°	199.9 =656'	Mod-strong short 444 hz+mod long 1777 hz HEM con- ductors (1777 has inverted quad). Moderate but con- tinuous linear total field+gra- dient Mag highs.	Sedimentary-vol- canic contact.	Interbedded sed- +altered course volcanics with thin dioritic, felsic tuffaceous and exhalative horizons. Mag highs=Po concs. Grad.=Contact between diorite and ch-exhalite. HEM =sulphide concs. through package of lithologically variable rocks.	Small local sul- phide concs. in exhalatives+tuffs Sheared rocks and tops reversed may indicate hole in vicinity of major fold. Encouraging	Isoclinal fol- ding with sul- phide concentra- tions. 1 zone of 70% Py returned only 71 ppb Au. Local environ- ment holds little potential.	No

TABLE I: SUMMARY OF DIAMOND DRILL HOLES

PROJECT: NOYON Q-32

HOLE NO.	LOCATION		AZI	DIP	LENGTH (meters)	TARGET	GEOLOGICAL ENVIRONMENT	RESULT	PRE ASSAY POTENTIAL	ECONOMIC POTENTIAL	ENVIRONMENT WARRENTS FURTHER DRILL TESTING
	GRID	COORD									
KNO-86-14	NEW East III	53+50E/ 20+50S	360°	-50°	236.52 =776'	Small wk 444 hz+ long wk 1777 hz HEM conductor + flexure in total field mag. res- ponse. Total Mag shows narrow li- near but substan- tial Mag high. Gradient is va- riable but also contains highs.	Sedimentary-vol- canic contact.	Interbedded fel- sict+mafic volc. (tuffs), mafic flows plus lesser altd. ultrama- fics, biotite schists, argilli- tes and exhal- itives Mag high- Po concs. near schist/tuff con- tact. HEM by Py, Po conc. in exhalatives.	Local sulphide concs. in altd. tuffs and exha- litives Felsic horizons common, biotite schist indicate moderate alteration. Very encouraging.	Increased al- teration and number of fel- sic horizons but no significant Au analyses. Local environ- holds moderate to low poten- tial.	No ?
KNO-86-15	I	7+20W 8+20S	310°	-50°	240.18 =788'	Source of gold grains found in O/B holes No 85- 33+33A, Major NE trending fault. (28 + 22 grains)	Sheared ultra- mafics. Major fault (NE)	Variably sheared and altered rocks sericitic/talco- se/serpentinized minor asbestos carb-qtz concen- trations.	Tr, Py, Po Sph- local concen- tration. Moderate potential.	Source of free grains found in proximal tills not explained and presence of numerous struc- tures in drill core suggests environment holds good potential.	Yes

TABLE I: SUMMARY OF DIAMOND DRILL HOLES

PROJECT: NOYON Q-32

DDH NO.	LOCATION		AZI	DIP	LENGTH (meters)	TARGET	GEOLOGICAL ENVIRONMENT	RESULT	PRE ASSAY POTENTIAL	ECONOMIC POTENTIAL	ENVIRONMENT WARRENTS FURTHER DRILL TESTING
	GRID	COOR									
KNO-86-16	I	31+70W/ 5+85 S	040°	-50°	184.1 =604'	Source of proximal anomalous tills and Br chips Lithologic contact and coincident major NW-SE trending fault. Short, moderate 444+1777 hz HEM conductor, moderate magnetic hi. Alteration zone.	Sheared ultramafics. Major fault (NW)	Interbedded mafic tuffs, fine-course sediments and flows, small breccia zones. Conductors caused by magnetite concs. in sheared altered rocks.	Sulphide concentrations intricate structural patterns, strong alteration. Encouraging.	Intricate structural patterns, strong alterations and sulphide concentrations give this area <u>great</u> potential when combined with several high Au values (up to .031 oz/9.8' including .044/5.5')	Yes

DISCUSSION

The gold intersections uncovered to date tend to be sporadic and are rarely of mining grade but they do indicate the presence of several structural and/or lithological traps wherein the potential for economical Au reserves exist.

Each of the target-types subscribes to a different conceptual model:

A) The major factor controlling localization of mineralization in target-type A (shears within diorites) is the rock permeability induced into the sequence through shearing. Hydrothermal fluxing in a 'pressure-cooker' type environment is thought to be the method by which gold bearing solutions were mobilized into and concentrated within the shears and proximal rocks.

B) Areas about faulted HEM conductors were thought to be loosely similar to the Golden Pond model wherein "mineralization is associated with units of volcanic flows, pyroclastics and epiclastic and chemical sedimentary rocks. A major east striking, graphitic fault zone is also spatially associated with gold mineralization" (Pattison et al, 1986)

C) The model for target-type C (volcanic-Transition Zone contact) is thought to be similar to the CANICO-Douay Township deposits' environment which is directly on strike with our property. As previously mentioned this deposit contains 2 zones. One has a (slumped) chert-pyrite-carbonate host, the other, located some 20' stratigraphically above the first, has a pyritiferous volcaniclastic (sandstone) host, both of which occur along the Transition Zone contact. It is suggested that in areas of flexure, as exist on our property, there is considerable potential as these may indicate paleobasins which could contain gold bearing exhalites deposited either directly or indirectly due to slumpage (Canico-Soquem Joint Venture Participation Offer, 1985).

D) The gold in anomalous core samples from target-type D (major faults proximal to talc-chlorite schists) is thought to have been derived from ultramafics-sweated out during shearing and alteration, absorbed by surrounding sedimentary and volcanic rocks and later concentrated through major faulting and folding.

The drilling to date has partially tested the type-targets discussed throughout the report. We now know to avoid further testing of faulted HEM conductors within the Transition Zone.

Drill testing of shears around quartz dioritic intrusives and along the major faults proximal to talc-chlorite schists, in areas having geochemically positive signatures from overburden drilling hold the greatest potential for intersecting economical gold concentrations.

The gold values and massive pyrite concentrations from holes drilled through the southern contact of the Transition Zone appear to be associated with a synclinal fold axis as opposed to the previously held conception of Au concentrations within CANICO-type paleobasins. After further review of INPUT conductor patterns and lithological interpretations it is now thought that the north contact of the Transition Zone (with a sedimentary package rocks) is the same as that of the CANICO-deposits.

The 1:50,000 geological compilation (map 1) and diamond drilling indicates that the Transition zone becomes more felsic and more altered towards the east. Many models of volcanism suggest that felsic depositions commonly occur towards the end of the volcanic cycle near the volcanic center, and as economical gold deposits are often associated with this phase of volcanism it is suggested that efforts be made to search out or take a keen interest in potential partners holding ground within this type of environment which exists just to the east of the property.

RECOMMENDATIONS

To fully assess the potential of this property will require further drill testing of target-types A and D (shears in diorites and faults proximal to talc-chlorite schists) in order to expand the gold values intersected there and also drill testing the northern contact of the Transition Zone.

A \$181,500 program of diamond drilling plus minor geophysics is recommended to achieve this goal. The program as outlined below, can be divided into 3 smaller programs of \$27, \$70 and \$84,500 each. Approximately 3100' is considered to be of 1st priority and could be tested at an all inclusive cost of \$100,000.

Adequate geophysical surveys have been carried out over the dioritic intrusive and the Transition Zone contacts allowing drilling to commence immediately. Approximately 25 km of line cutting and geophysics are required before drilling should commence over major faults in the properties western sector.

It is also suggested that all geophysical surveys be compiled at a scale of 1:10,000 as there have been several surveys carried out at different times resulting in inconsistent ie. non-relevant base values.

All areas of the property should be kept in good standing until drill testing is complete. Sufficient expenditures have been made during 1986 to carry the claim group for another year, but recall that summer drilling would be most economical due to ground conditions.

PROPOSED PROGRAM ^

Pending the results of drilling through the north contact of the Transition Zone we may consider approaching potential partners holding ground over a similar contact environment. Other companies have not done as much field work in the area, therefore Kerr should retain control . (eg. to the east Services Exploration or Cominco, to the northwest, John Pallock).

The proposed diamond drill holes, which will complete the evaluation of the exploration potential of this area, include:

PROPOSED DRILL HOLES

TYPE: Target A: Shears Proximal to Dioritic - Volcanic Contact.

PRIORITY 2:

DDH A LOCATION: L 10+00E/12+30S
AZIMUTH : 360°
DIP : -50°
LENGTH : 600' (385' horizontal)
TARGET : Source of anomalous bedrock chip (24 ppb Au) and basal till containing 2 free gold grains (abraded). Shears proximal to qtz diorite talc-chlorite carbonate schist contact. Proximal arsenopyrite concentrations.

PRIORITY 1:

DDH B LOCATION: L 13+00E/13+10S
AZIMUTH : 360°
DIP : -50°
LENGTH : 600' (385' horizontal)
TARGET : Source of anomalous bedrock chip (51 ppb Au) and basal till containing/free gold grain (abraded) and 40% pyrite. Shears proximal to qtz-diorite-volcanic contact. Proximal arsenopyrite concentrations.

PRIORITY 2:

```
DDH C      LOCATION:    L 2+50E/10+00S
           AZIMUTH   :   360° ?
           DIP       :   -50° ?
           LENGTH    :   600' (385 horizontal)
           TARGET     :   Source of Au in anomalous basal till sam-
                           ple (1370 ppb HMC) proximal to qtz diorite,
                           mafic volcanic, talc-chlorite schist contact.
```

PRIORITY 1:

DDH D LOCATION: 6+25E/16+70S
AZIMUTH : 360°
DIP : -50°
LENGTH : 500' (320' horizontal)
TARGET : Eastern extension of gold mineralization
 intersected in KNO-86-02 to 07. Up dip
 intersections of 'Contact Mineralized Zone'
 and 'Main Shear Mineralized Zone'.

TYPE: Target D: Major faults proximal to talc-chlorite+
carbonate schists.

PRIORITY 1:

DDH E1 LOCATION: 34+45W/1+50S (pending geophysical results)
AZIMUTH : 050°
DIP : -50°
LENGTH : 700' (450' horizontal)
TARGET : Source of anomalous BR chips (10-16 ppb),
of anomalous basal tills 21 ppb SA, 1100-
3615 ppb HMC, of free gold grains in ba-
sal clay tills 250m NE and 500m WSW of
target. Target is major NW trending
fault which has proven gold values (to
1496 ppb Au) plus weak east west tren-
ding 444 + 1777 Hz HEM conductor.

PRIORITY 2:

DDH F LOCATION: 13+50W/4+10S
AZIMUTH : 360°
DIP : -50°
LENGTH : 700' (450' horizontal)
TARGET :: Source of gold grains found in basal tills
of O/B holes NO-85-33 + 33A (28 and 22
grains respectively) represented by ma-
gnetic high at contact between volcanic
and Transtion Zone. End of hole to in-
terbed strong 444 + 1777 Hz conductor.

PRIORITY 1:

DDH G LOCATION: L 40+00W/2+00N (pending geophysical results)
 AZIMUTH : 360°
 DIP : -50°
 LENGTH : 400' (260' horizontal)
 TARGET : Source of anomalous HMC till (2795 ppb)
 plus strong 1777 and weak 444 Hz HEM
 conductors and shear zone at contact
 between chloritic schists and talc-
 chlorite ± carbonate schists.

PRIORITY 2:

DDH H LOCATION: 2+50W/9+00S
 AZIMUTH : 360°
 DIP : -50°
 LENGTH : 350' (225' horizontal)
 TARGET : Strong 444 + 1777 Hz HEM conductors,
 contained within a shear zone at the
 core of talc-chlorite schists.

TYPE: Target North contact of Transition Zone (Canico Type)

PRIORITY 1:

DDH I LOCATION: L31+25E/6+00S
 AZIMUTH : 360°
 DIP : -50° 800'
 LENGTH : 900' (580' horizontal)
 TARGET : Flexure in Transition Zone - Sedimentary
 contact containing total field magnetic
 high, spike in gradient magnetics and
 proximal weak 1777 Hz HEM conductor.

Juan Gray
Feb 87

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Appendix 1 - Claim Numbers

433800-1	433809-2	432902-4	447328-4
433800-2	433809-3	432902-5	447328-5
433801-1	433809-4	432903-1	447336-1
433801-2	433809-5	432903-2	447336-2
433801-3	433810-1	432903-3	447336-3
433801-4	433810-2	432903-4	447336-4
433801-5	433810-3	432903-5	447336-5
433802-1	433810-4	432904-1	447337-1
433802-2	433810-5	432904-2	447337-2
433802-3	433811-1	432904-3	447337-3
433802-4	433811-2	432904-4	447337-4
433802-5	433811-3	432904-5	447337-5
433803-1	433811-4	432905-1	447338-1
433803-2	433811-5	432905-2	447338-2
433803-3	433812-1	432905-3	447338-3
433803-4	433812-2	432905-4	447338-4
433803-5	433812-3	432905-5	447338-5
433804-1	433812-4	432906-1	447596-3
433804-2	433812-5	432906-2	447596-4
433804-3	433813-1	432906-3	447596-5
433804-4	433813-2	432906-4	447597-3
433804-5	433813-3	432906-5	447597-4
433805-1	433813-4	447312-1	447597-5
433805-2	433813-5	447312-2	447598-1
433805-3	433814-1	447312-3	447598-2
433805-4	433814-2	447312-4	447598-3
433805-5	433814-3	447312-5	447598-4
433806-1	433814-4	447313-1	447598-5
433806-2	433814-5	447313-2	447599-1
433806-3	433815-1	447313-3	447599-2
433806-4	433815-2	447313-4	447599-3
433806-5	433815-3	447313-5	447599-4
433807-1	433815-4	447314-1	447599-5
433807-2	433815-5	447314-2	447600-1
433807-3	433816-1	447314-3	447600-2
433807-4	433817-1	447316-1	447600-3
433807-5	433817-2	447316-2	447600-4
433808-1	433817-3	447316-3	447600-5
433808-2	433817-4	447316-4	447601-1
433808-3	433817-5	447316-5	447601-2
433808-4	432902-1	447328-1	447602-1
433808-5	432902-2	447328-2	447602-2
433809-1	432902-3	447328-3	

Appendix ii - Au Bearing Core Samples - Assay Values, Depth, Lithology

<u>Assay</u> oz Au/t/ft.	<u>Depth</u> ft	<u>Lithology</u>
<u>KNO-86-01</u>		
0.004/5.0'	191.5-196.5	ANDESITE 5% carb veinlets, schistose
0.008/3.5'	260.0-263.5	PORPHYRITIC ANDESITE
0.006/5.0'	405.0-410.0	INTERMEDIATE TUFF 5% carb stringers, carbonatized
<u>KNO-86-02</u>		
*0.015/5.75'	108.0-113.75	INTERMEDIATE TUFF silicified, 5% qtz veins
0.004/5.0'	170.0-175.0	2% Py cubes, silicified qtz and carb veining
0.005/3.9'	234.2-238.1	silicified, haematized, folded qtz veining
0.004/5.0'	241.0-246.0	
*0.010/110'	246.0-247.0	5% f.d. Py, 1 x 5" qtz haem. vein brecciated
*0.015/0.5'	252.0-252.5	silicified, 15% stringer Py
*0.015/1.0'	292.0-293.0	haematized, 2% qtz veins, 5% Py veinlets (strings)
0.009/1.5'	293.0-294.5	haematized, brecciated, Tr Py
0.004/6.0'	305.0-311.0	schistose
QUARTZ DIORITE		
*0.022/5.0'	326.0-331.0	massive
0.004/5.0'	331.0-336.0	massive
0.004/5.0'	356.5-361.5	massive
INTERMEDIATE TUFF		
0.008/3.5'	375.0-378.5	Tr Py, 3-5% qtz-carb veining
*0.010/3.5'	378.5-382.0	Tr Py, 5% qtz-carb veining
PORPHYRITIC ANDESITE		
*0.022/2.9'	436.1-439.0	weakly brecciated, Tr Py, minor haematite
0.004/4.1'	439.0-443.1	weakly brecciated, Tr Py, minor haematite
ANDESITE		
0.004/0.5'	469.5-470.0	qtz veining, carbonate, chloritized

(*) : Assay $\geq$ 0.01 oz Au/t

<u>Assay</u> oz Au/t/ft	<u>Depth</u> ft	<u>Lithology</u>
<u>KNO-86-03</u>		
0.004/5.0'	251.0-256.0	INTERMEDIATE TUFF carbonatized, 15% carbonate veins
0.004/5.0'	283.5-287.5	INTERBEDDED SHEARED & MASSIVE DIORITES Qtz-sericite schist, sheared gouge talc, 10% qtz veins, carbonatized
0.004/1.0'	300.5-301.5	Qtz-sericite schist, sheared, carbonatized
*0.021/3.5'	317.5-321.0	Qtz-sericite schist, sheared, carbonatized, 1 x 3" qtz vein
*0.010/3.0'	394.5-397.5	MAIN SHEAR ZONE-QTZ SERICITE SCHIST sheared, carbonatized
*0.051/1.0'	397.5-398.5	sheared, carbonatized, 10% f.d. bands of Py.
0.010/3.0'	398.5-403.5	sheared, carbonatized
0.005/1.0'	417.7-418.7	schistose
0.007/3.8'	418.7-422.5	schistose
*0.107/1.25'	431.75-433.0	10-15% f-d. stringer + bands of Py, sheared, carb.
*0.095/1.75'	435.5-437.25	10-15% f.d., stringer Py, sheared, carbonatized
*0.281/1.0'	437.25-438.25	10-15% f.d., stringer Py, sheared, carb, 1 x 1/2" qtz vein
*0.011/0.75'	438.25-439.0	20% f.d. + stringer Py, sheared, carb, 20% qtz veining, bottom of Main Shear
0.004/0.6'	455.2-455.8	QUARTZ DIORITE 2% finely disseminated pyrite
0.004/4.4'	480.0-484.4	2" concentrations of 5% Py on shear planes schistose, sericitized and massive zones
*0.010/5.0'	611.0-616.0	Qtz-sericite schist-5% finely disseminated Py
0.003/4.5'	620.0-624.5	massive
*0.014/5.0'	624.5-629.5	5-10% f.d. Py, qtz-carb veins, 20% Py near bottom 1'.
*0.016/4.5'	629.5-634.0	massive
0.004/2.5'	646.0-648.5	massive
0.004/5.0'	691.0-696.0	massive, local sericitic alteration

<u>Assay</u> oz Au/t/ft	<u>Depth</u> ft	<u>Lithology</u>
<u>KNO-86-04</u>		
0.004/2.0'	271.6-273.6	HYALOCLASTITE IN MAFIC VOLCANIC 1x2" + 1x $\frac{1}{2}$ " qtz vein
*0.09/1.0'	295.6-296.6	MAFIC VOLCANIC tuffaceous band with Tr Py-marks contact with lower porphyritic mafic volcanic
*0.032/4.0'	317.0-321.0	PORPHYRITIC MAFIC VOLCANIC 10% felds veinlets with tour -some with Tr -1% Py
0.004/0.9'	335.9-336.8	40% tourmaline in carb vein with 1% Py
0.004/1.5'	336.8-338.3	1% Py
0.009/2.8'	399.9-402.7	QUARTZ DIORITE massive, Tr Py, 1x $\frac{1}{4}$ " qtz-carb-chlor- haem vein
*0.016/2.3'	402.7-405.0	massive
0.004/4.8'	405.0-409.8	massive
*0.042/2.2'	409.8-412.0	schistose, sericitized, 1% finely disseminated Py
0.006/4.0'	412.0-416.0	schistose, sericitized, Tr Py
*0.035/3.2'	479.1-482.3	Shear Zone -schistose, strongly sericitized, 2% finely dissemi- nated Py
0.009/4.3'	486.0-490.3	silicified, fractured, Tr fuchsite, Tr Py
0.004/1.65'	607.7-609.35	70% quartz tourmaline veins and patch-s
*0.026/2.5'	633.2-635.7	1x3" qtz vein + 1x1" qtz tour vein + 3% f.d. Py
*0.016/2.0'	656.8-658.0	5% finely disseminated bands of Py
0.004/2.0'	754.0-756.0	massive
<u>KNO-86-05</u>		
0.004/3.9'	257.0-260.9	MAFIC VOLCANIC upper $\frac{1}{2}$ =mafic dike, 1% Py, Tr Cp, 1% haem with carb
0.009/2.8'	312.1-314.9	PORPHYRITIC MAFIC VOLCANIC Tr Py, 1x10" patch=50% volc, 40% qtz, 7% haem, 3% tour
0.004/5.0'	326.0-331.0	Tr haem.

<u>Assay</u> oz Au/t/ft	<u>Depth</u> ft	<u>Lithology</u>
0.007/2.8'	402.4-405.2	QUARTZ DIORITE
*0.028/1.7'	405.2-406.9	moderately sericitized
0.004/2.2'	414.6-416.8	massive
		fine grained, moderately sericitized
0.009/5.5'	446.0-451.5	and schistose
		strongly sericitized, minor
*0.012/2.0'	451.5-453.5	haematite, Tr Py
0.008/2.5'	453.4-456.0	massive, just below altered zone
		1x2" qtz vein
		QUARTZ DIORITE (PYRITIC BANDS)
*0.011/2.4'	494.0-496.4	5% bands of finely disseminated
		Py, moderately sericitized and
		silicified, strongly folded 1x3" qtz
		vein
0.008/1.9'	502.3-504.2	3% bands of finely disseminated Py
0.007/1.0'	520.0-521.0	4x $\frac{1}{2}$ " qtz veins, 1 with tour,
		parallel to schistosity, 1% bands of
		finely disseminated Py
*0.016/3.4'	521.8-525.2	3-5% bands finely disseminated
		Py in top 2 $\frac{1}{2}$ '
		QUARTZ DIORITE
*0.015/5.0'	531.0-536.0	massive
0.03/5.0'	536.0-541.0	massive
0.005/5.0'	606.0-611.0	interbedded massive and carbona-
		tized.
		CARBONATIZED QUARTZ DIORITE
0.005/1.9'	659.0-660.9	1% finely disseminated Py
0.005/5.0'	681.0-686.0	massive, carbonatized
0.03/6.3'	686.0-692.3	Tr - 1% Py
0.005/4.9'	696.1-701.0	massive, carbonatized
0.004/2.6'	727.5-730.1	1% finely disseminated Py
0.005/4.9'	730.1-735.0	carbonatized, massive
0.004/2.0'	754.0-756.0	minor shear bands to $\frac{1}{2}$ ". Tr Py

KNO-86-06

*0.012/1.8'	180.9-182.7	MAFIC VOLCANIC
0.005/2.9'	222.0-224.9	5% tourmaline, 1% Py, Tr carbonate
0.004/1.1'	224.9-226.0	1% Py with qtz veins
		central 8" qtz-carb vein with
		2% Py + 3% fuchsite

<u>Assay</u> oz Au/t/ft	<u>Depth</u> ft	<u>Lithology</u>
0.009/4.9'	247.7-252.6	ALTERED ZONE strongly silicified, moderately carbonatized, weakly sericitized, Tr Py (alt'd volc), Qtz sericite schist (sheared diorite)
*0.014/2.9'	257.9-260.8	1-2% finely disseminated Py
0.005/1.0'	431.2-432.2	SHEARED QUARTZ DIORITE (Main Zone) -sericitized, carbonatized, bands of finely disseminated Py
*0.020/1.3'	452.8-454.1	3% bands of f.d. Py 1% f.d. Py + 4" qtz-tour vein with 5% f.d. Py
0.004/4.0'	454.1-458.1	Tr-1% f.d. Py + 3x1" + 1x3" qtz carb veins with Tr fuchsite
0.009/1.0'	458.1-459.1	1x4" qtz vein, minor Fe-carb (?), 3% bands of finely disseminated Py, Tr, fuchsite
0.004/4.9'	462.0-466.9	Tr Py, less sheared but still strongly altered
0.009/2.1'	466.9-469.0	schistose
*0.018/5.2'	477.0-482.2	Tr -1% f.d. Py, some bands, Tr fuchsite
0.006/2.1'	482.2-484.3	Tr finely disseminated Py
0.006/2.1'	523.8-525.7	QUARTZ DIORITE Tr -1% finely disseminated Py
0.009/5.3'	530.2-535.5	Tr -1% finely disseminated Py
0.004/3.2'	541.1-544.3	1% finely disseminated and cubic Py
0.004/4.6'	544.3-548.9	1% finely disseminated and cubic Py, more schistose
*0.012/1.2'	590.8-592.0	CARBONATIZED QUARTZ DIORITE central 4" has 10% bands of f.d. Py
0.006/3.3'	592.0-595.3	1% f.d. Py, Tr fuchsite, central ft strongly altered (sericitized, silici- fied, talc, carbonatized)
0.004/4.4'	595.3-599.7	1" fault gouge
*0.024/2.0'	638.0-640.0	1% finely disseminated and cubic Py
<u>KNO-86-07</u>		
0.007/2.2'	222.4-224.6	MAFIC VOLCANIC/TUFF contains 6" of fault gouge
0.003/2.0'	225.5-227.5	10% carbonate veining, slightly rusty
*0.017/2.2'	271.4-273.6	minor haematite, Tr Py, 2x1" qtz veins

<u>Assay</u> oz Au/t/ft	<u>Depth</u> ft	<u>Lithology</u>
0.006/1.25'	437.55-438.8	MAFIC VOLCANIC/TUFF Feldspar porphyry in basalt: 1-2% aggregate and cubic Py
*0.013/2.8'	463.2-466.0	lower contact of basalt: 10% chloritic spots strongly folded, carbonatized, 10% carb fracture fill, Tr aggregate Py
0.004/2.8'	467.4-470.2	ALTERED ZONE Qtz-sericite schist-sheared qtz diorite, strongly carbonatized, Tr Py
0.005/2.7'	474.5-477.2	sericitic schist -altered volcanic 1x1" qtz vein, Tr Py, moderately sericitized
		BASALT rusty, central 8" blocky=fault, Tr Py
0.007/2.1'	529.0-531.1	QUARTZ DIORITE 80% qtz-carb-tour veining cutting schistosity
0.003/1.8'	552.0-554.4	
*0.014/1.8'	554.4-556.2	slightly schistose, 2x½" qtz-chlor veins, paralleling schistosity, Tr Py in host
0.005/2.4'	592.0-594.4	weak to moderate carbonatization
0.005/2.0'	594.4-596.4	Tr finely disseminated Py
*0.015/2.3'	596.4-598.7	Tr finely disseminated Py
0.004/3.0'	598.7-601.7	Tr bands of finely disseminated Py
*0.025/0.9'	629.3-630.2	1% Py
*0.02/3.3'	626.0-629.3	1% cubic Py
*0.025/0.9'	629.3-630.2	
*0.020/1.6'	630.2-631.8	QUARTZ SERICITE SCHIST (Sheared Diorite- MAIN ZONE) contact: 1x4" qtz-carb-tour vein + 1x2" qtz-tour vein, 4" vein brec- ciated, contains Py along fractures. Top 3"=sheared basalt with 2% ag- gregate Py. Bottom 1'=qtz sericite schist with 10% finely disseminated Py schistose and sericitized, 1x3" + 1x1" + 1x½" qtz-carb-tourveins, Tr Py in host, Tr fuchsite
0.004/2.6'	634.2-636.8	
*0.016/3.0'	654.7-657.7	

<u>Assay</u> oz Au/t/ft	<u>Depth</u> ft	<u>Lithology</u>
		SERICITIC CHLORITIC SCHIST (Altered volcanic at lower contact of qtz-diorite)
*0.016/2.5'	657.7-660.2	10% finely disseminated and f.d. bands of Py,Tr fuchsite
*0.051/2.4'	660.2-662.6	15% finely disseminated and bands of Py
0.007/1.5'	662.6-664.1	1% finely disseminated and aggragate Py
		BASALT
0.004/2.5'	672.4-674.9	1x4" qtz-tour-carb vein at 60° to C.A.

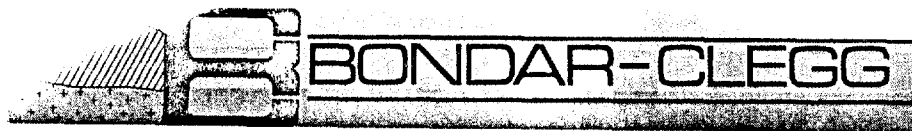
ASSAY
ppb Au/m
≤ 50 ppb not
included

DEPTH
(m)

LITHOLOGY

KNO-86-16

53/ .07	86.10-87.17	Basalt, weakly epidotized.
54/ .80	93.12-93.92	Felsic (dacitic) dike, weakly brecciated, Tr-3% Py. Proximal minor faults.
1496/1.69	115.27-116.96	Andesite, proximal fault gouge, Tr Py.
529/1.29	116.96-118.25	Andesite as above but also moderately silicified and weakly fractured. Tr Py
370/ .66	179.07-179.73	Mafic tuff-locally agglomeratic. Proximal fold hinges and S ₂ development.



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PROJECT: R-32F

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB
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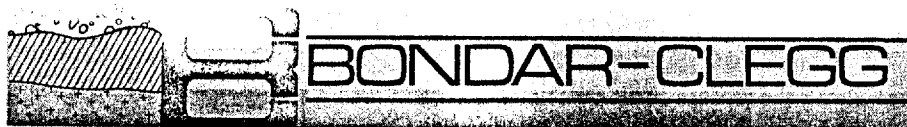
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68502		<1
68503		22
68504		11
68505		4

68506		<1
68507		<1
68508		2
68509		12
68510		9

68511		14
68512		6
68513		1
68514		14
68515		1

68516		1
68517		<1
68518		1
68519		<1
68520		1

68521		1
68522		1
68523		4



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PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
35901		1	68543		3
35902		<1	68544		<1
35903		35	68545		<1
35904		<1	68546		<1
35905		2	68547		10
35906		1	68548		<1
35907		1	68549		1
35908		<1	68550		13
35909		<1			
35910		3			
35911		1			
35912		1			
35913		2			
35914		1			
35915		4			
35916		3			
35917		<1			
35918		1			
35919		<1			
35920		1			
35921		4			
68524		<1			
68525		2			
68526		1			
68527		1			
68528		<1			
68529		1			
68530		1			
68531		<1			
68532		<1			
68533		1			
68534		<1			
68535		1			
68536		1			
68537		3			
68538		1			
68539		2			
68540		9			
68541		1			
68542		9			



REPORT: 016-4827

PROJECT: R-32F

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
35922		1	68562		3
35923		1	68563		2
35924		1			
35925		1			
35926		1			
35927		1			
35928		2			
35929		1			
35930		2			
35931		1			
35932		1			
35933		3			
35934		1			
35935		3			
35936		3			
35937		4			
35938		1			
35939		<1			
35940		<1			
35941		2			
35942		<1			
35943		1			
35944		3			
35945		2			
35946		4			
35947		1			
35948		1			
35949		<1			
35950		1			
68551		2			
68552		3			
68553		5			
68554		4			
68555		1			
68556		<1			
68557		4			
68558		11			
68559		2			
68560		3			
68561		3			

URT: 016-4834
PROJECT: R-32F
PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
68564		<1	68604		<1
68565		<1	68605		<1
68566		7	68606		8
68567		<1	68607		1
68568		2	68608		<1
68569		<1	68609		<1
68570		10			
68571		<1			
68572		<1			
68573		<1			
68574		1			
68575		<1			
68576		<1			
68577		<1			
68578		<1			
68579		10			
68580		<1			
68581		1			
68582		1			
68583		48			
68584		2			
68585		2			
68586		2			
68587		4			
68588		1			
68589		<1			
68590		2			
68591		1			
68592		<1			
68593		<1			
68594		<1			
68595		<1			
68596		<1			
68597		<1			
68598		<1			
68599		<1			
68600		<1			
68601		<1			
68602		4			
68603		<1			

016-4878

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PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU PPB
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68610		5
68611		3
68612		1
68613		2
68614		2

68615		1
68616		<1
68617		1
68618		3
68619		14

68620		2
68621		1

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SAMPLE NUMBER	ELEMENT UNITS	AU PPB	TestWt gm
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5812		6	
5813		7	
5814		1	
5815		2	
5816		6	

5817		5	
5818		2	
5819		3	
5820		5	
5821		15	

5822		11	
5823		5	
5824		8	
5825		34	
5826		3	

5827		4	
5828		2	
5829		16	
5830		2	
5831		3	

5832		5	
5833		3	
5834		9	
5835		2	
5836		2	

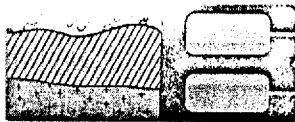
5837		9	
5838		6	
5839		3	
5840		9	10.00

016-5169

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PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
68651		3	68691		<1
68652		<1	68692		<1
68653		3	68693		<1
68654		<1	68694		<1
68655		8	68695		<1
68656		1	68696		<1
68657		42	68697		<1
68658		3	68698		<1
68659		<1	68699		<1
68660		<1	68700		<1
68661		<1	68701		<1
68662		<1	68702		80
68663		<1	68703		11
68664		4	68704		4
68665		<1	68705		1084 ←
68666		<1	68706		35
68667		<1	68707		15
68668		<1			
68669		<1			
68670		<1			
68671		<1			
68672		2			
68673		2			
68674		3			
68675		81			
68676		7			
68677		9			
68678		5			
68679		12			
68680		86			
68681		2			
68682		4			
68683		16			
68684		36			
68685		14			
68686		1			
68687		1			
68688		<1			
68689		<1			
68690		<1			



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SAMPLE NUMBER	ELEMENT UNITS	Au PPB
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68708		<1
68709		3
68710		2
68711		<1
68712		5

68713		64
68714		7
68715		1
68716		<1
68717		<1

68718		<1
68719		9
68720		3
68721		4
68722		1

68723		1
68724		<1
68725		20
68726		<1
68727		<1

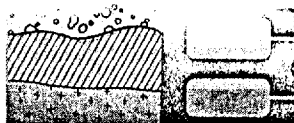
REPORT: 016-5295

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PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU PPB	SAMPLE NUMBER	ELEMENT UNITS	AU PPB
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68824		3	68864		<1
68825		<1	68865		<1
68826		1	68866		<1
68827		<1	68867		3
68828		<1	68868		1
68829		<1	68869		2
68830		18	68870		2
68831		<1	68871		<1
68832		<1	68872		6
68833		<1	68873		<1
68834		<1	68874		1
68835		9	68875		32
68836		4	68876		3
68837		<1	68877		2
68838		1	68878		2
68839		<1	68879		2
68840		<1	68880		<1
68841		<1	68881		<1
68842		2	68882		<1
68843		<1	68883		3
68844		2	68884		5
68845		1	68885		<1
68846		7	68886		<1
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68848		<1	68888		<1
68849		<1	68889		<1
68850		<1	68890		2
68851		9	68891		<1
68852		14	68892		<1
68853		1	68893		1
68854		4	68894		1
68855		<1	68895		3
68856		<1	68896		<1
68857		<1	68897		<1
68858		2	68898		1
68859		2	68899		2
68860		1			
68861		<1			
68862		<1			

K116-86-09
K116-86-11



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SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Au PPB
68765			2	68805			<1
68766			1	68806			<1
68767			2	68807			<1
68768			<1	68808			<1
68769			<1	68809			2
68770			<1	68810			1
68771			<1	68811			2
68772			1	68812			2
68773			<1	68813			1
68774			<1	68814			<1
68775			<1	68815			<1
68776			<1	68816			<1
68777			<1	68817			1
68778			<1	68818			<1
68779			<1	68819			1
68780			<1	68820			<1
68781			<1	68821			<1
68782		57	<1	68822			<1
68783		74	1				
68784			<1				
68785			<1				
68786			<1				
68787			<1				
68788			<1				
68789			1				
68790			<1				
68791			<1				
68792			<1				
68793			<1				
68794			1				
68795			3				
68796			2				
68797			<1				
68798			<1				
68799			<1				
68800			<1				
68801			1				
68802			5				
68803		71	1				
68804			8				



REPORT: 416-5169

PROJECT: R-32

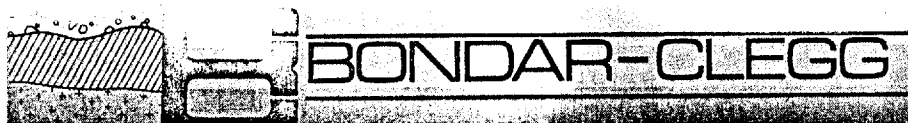
PAGE 1

SAMPLE
NUMBERELEMENT
UNITSAu
O/T

68705

0.022

Chief Chemist

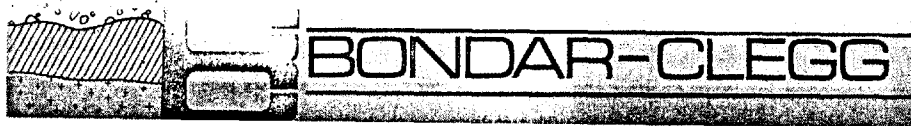


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PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU PPB	SAMPLE NUMBER	ELEMENT UNITS	AU PPB
68984		4	69024		21
68985		2	69025		1
68986		<1	69026		<1
68987		<1	69027		<1
68988		<1	69028		2
68989		6	69029		2
68990		9	69030		2
68991		2	69031		3
68992		3	69032		2
68993		4	69033		<1
68994		<1	69034		<1
68995		3	69035		1
68996		2	69036		2
68997		3	69037		2
68998		<1	69038		1
68999		<1			
69000		1			
69001		<1			
69002		<1			
69003		<1			
69004		<1			
69005		<1			
69006		<1			
69007		<1			
69008		<1			
69009		7			
69010		5			
69011		<1			
69012		<1			
69013		<1			
69014		<1			
69015		<1			
69016		<1			
69017		<1			
69018		3			
69019		<1			
69020		<1			
69021		<1			
69022		<1			
69023		4			



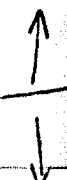
REPORT: 016-5326

PROJECT: R-32

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
68900		<1	68940		<1
68901		<1	68941		1
68902		13	68942		<1
68903		<1	68943		<1
68904		<1	68944		6
68905		<1	68945		2
68906		22	68946		4
68907		<1	68947		5
68908		<1	68948		3
68909		1	68949		2
68910		<1	68950		4
68911		12	68951		3
68912		1	68952		1
68913		2			
68914		30			
68915		<1			
68916		1			
68917		<1			
68918		<1			
68919		<1			
68920		3			
68921		2			
68922		2			
68923		1			
68924		1			
68925		2			
68926		3			
68927		4			
68928		1			
68929		2			
68930		1			
68931		49			
68932		34			
68933		10			
68934		2			
68935		1			
68936		<1			
68937		1			
68938		2			
68939		1			

KNO-85-11



KNO-96-11



REPORT: 016-5331

PROJECT: R-32

PAGE 1

SAMPLE
NUMBER

ELEMENT
UNITS

AU
PPB

88624 4

88953 3

88954 1

88955 1

88956 4

88957 1

88958 36

88959 2

88960 3

88961 14

88962 1

88963 1

88964 2

88965 5

88966 27

88967 3

88968 1

88969 1

88970 <1

88971 5

88972 4

88973 2

88974 2

88975 2

88976 <1

88977 <1

88978 <1

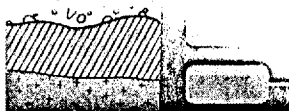
88979 <1

88980 <1

88981 <1

88982 <1

88983 1



REPORT: 016-5404

PROJECT: R-32

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU PPR
------------------	------------------	-----------

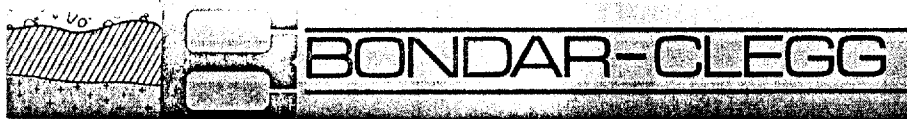
68625		6 - KNO-EG-08
69096		<1
69097		<1 - KNO-EG-10
69098		<1
69099		<1

69100		<1
69101		<1
69102		<1
69103		<1
69104		<1

69105		<1
69106		<1
69107		<1
69108		<1
69109		<1

69110		<1
69111		<1
69112		<1
69113		<1
69114		<1

69115		<1
69116		2
69117		<1



REPORT: 016-5391

PROJECT: R-32

PAGE 1

SAMPLE
NUMBER

ELEMENT
UNITS

Au
PPB

SAMPLE
NUMBER

ELEMENT
UNITS

Au
PPB

69039
69040
69041
69042
69043

<1
1
1
1
1

69079
69080
69081
69082
69083

<1
1
1
1
1

69044
69045
69046
69047
69048

<1
1
1
1
6

69084
69085
69086
69087
69088

<1
1
1
1
1

69049
69050
69051
69052
69053

<1
3
1
1
1

69089
69090
69091
69092
69093

<1
1
1
1
1

69054
69055
69056
69057
69058

1
1
1
1
1

69094
69095

2
1

69059
69060
69061
69062
69063

<1
1
3
2
2

69064
69065
69066
69067
69068

2
2
2
1
2

69069
69070
69071
69072
69073

2
1
3
1
1

69074
69075
69076
69077
69078

1
1
5
3
1



REPORT: 016-5432

PROJECT: R-32

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB
------------------	------------------	-----------

69118		<1
69119		<1
69120		<1
69121		<1
69122		<1

69123		<1
69124		<1
69125		<1
69126		<1
69127		1

69128		<1
69129		4
69130		<1
69131		<1
69132		<1

69133		<1
69134		<1
69135		1
69136		<1
69137		<1

69138		<1
69139		1
69140		<1
69141		<1
69142		<1

69143		1
69144		2
69145		<1
69146		<1
69147		1

69148		<1
69149		<1
69150		5
69151		<1
69152		<1

69153		<1
69154		<1
69155		<1
69156		<1
69157		<1



REPORT: 016-5433

PROJECT: R-32

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Au PPB
------------------	------------------	-----------	-----------

69158			<1
69159			<1
69160			<1
69161			<1
69162			<1

69163			<1
69164			<1
69165			<1
69166			<1
69167			1

69168			<1
69169			26
69170			2
69171			8
69172			<1

69173			<1
69174			2
69175			10
69176			<1
69177			<1

69178			1
69179			<1
69180			<1
69181			3
69182			4

69183			12
69184			<1
69185			6
69186			1
69187			4

69188			1
69189			1
69190			2
69191			2
69192			1

69193			2
69194			1
69195			1
69196		6	4



REPORT: 016-5488

PROJECT: R-32

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
11 68626		10	69236		1
69197		1	69237		2
14 69198		<1	69238		2
69199		4	69239		2
69200		6	69240		<1
69201		11	69241		<1
69202		13	69242		1
69203		2	69243		2
69204		21	69244		<1
69205		3	69245		<1
69206		2	69246		<1
69207		1	69247		2
69208		2	69248		<1
69209		2	69249		<1
69210		2	69250		<1
69211		2	69251		<1
69212		2	69252		<1
69213		4	69253		<1
69214		20	69254		<1
69215		3	69255		1
69216		2	69256		<1
69217		4	69257		<1
69218		6	69258		2
69219		13	69259		1
69220		3	69260		2
69221		3	69261		3
69222		4	69262		4
69223		2	69263		6
69224		2	69264		4
69225		<1	69265		11
69226		1	69266		3
69227		2	69267		5
69228		2	69268		5
69229		<1	69269		2
69230		1	69270		2
69231		<1	69271		3
69232		<1	69272		2
69233		<1	69273		2
69234		<1	15 69274		2
69235		<1	69275		<1

REPORT: 016-5488

PROJECT: R-32

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
69276		<1	69316		583
69277		1	69317		133
69278		<1			
69279		<1			
69280		<1			
69281		<1			
69282		3			
69283		1			
69284		<1			
69285		<1			
69286		<1			
69287		<1			
69288		<1			
69289		<1			
69290		<1			
69291		2			
69292		<1			
69293		1			
69294		3			
69295		<1			
69296		<1			
69297		2			
69298		3			
69299		<1			
69300		<1			
69301		<1			
69302		<1			
69303		2			
69304		4			
69305		1			
69306		2			
69307		<1			
69308		14			
69309		3			
69310		4			
69311		<1			
69312		18			
69313		3			
69314		26			
69315		37			



REPORT: 016-5523

PROJECT: R-32

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Au PPB
69318		32	12
69319		97	9
69320		5550	3
69321			2
69322			4
69323			4
69324			2
69325			<1
69326			<1
69327			<1
69328			<1
69329			<1
69330			<1
69331			<1
69332			<1
69333			<1
69334			<1
69335			2
69336			<1
69337			13
69338			12
69339			3
69340			38
69341			4
69342			2
69343			<1
69344			<1
69345			<1
69346			2
69347			2
69348			1
69349			<1
69350			<1
69351			<1
69352		50	5



REPORT: 016-5565

PROJECT: R-32

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Zn PPM	Au PPB
69353		56	8	69393			2
69354		56	<1	69394			2
69355			3				
69356			5				
69357			2				
69358			3				
69359			2				
69360			12				
69361			3				
69362			1				
69363			<1				
69364			2				
69365			<1				
69366			2				
69367			<1				
69368			1				
69369			2				
69370			2				
69371			11				
69372			1				
69373			5				
69374			<1				
69375			2				
69376			2				
69377			<1				
69378			3				
69379			2				
69380			2				
69381			2				
69382			1				
69383			2				
69384			2				
69385			1				
69386			26				
69387			4				
69388			9				
69389			5				
69390			3				
69391			2				
69392			3				



REPORT: 016-5490

PROJECT: R-32

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm
69448		26		69488		1	
69449		21		69489		2	
69450		25		69490		2	
69451		23		69491		<1	
69452		13	15.00	69492		20	
69453		5		69493		8	
69454		8		69494		6	
69455		10		69495		3	
69456		22		69496		4	
69457		103		69497		12	
69458		10		69498		4	
69459		134		69499		8	
69460		2		69500		1	
69461		5					
69462		3					
69463		6					
69464		5					
69465		2					
69466		2					
69467		2					
69468		2					
69469		<1					
69470		25					
69471		10					
69472		14					
69473		10	13.00				
69474		10					
69475		8					
69476		7					
69477		10					
69478		9					
69479		5					
69480		5					
69481		5					
69482		12					
69483		5					
69484		3					
69485		5					
69486		7					
69487		2					

REPORT: 016-5612

PROJECT: R-32

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
69528		3	84468		1
69529		4	84469		<1
69530		9	84470		1
69531		8	84471		2
69532		6	84472		7
69533		3	84473		1
69534		6	84474		<1
69535		2	84475		3
69536		53	84476		7
69537		20	84477		3
69538		54	84478		11
69539		7	84479		20
69540		1	84480		18
69541		<1	84481		7
69542		<1	84482		7
69543		<1	84483		25
69544		<1	84484		5
69545		<1	84485		3
69546		6	84486		5
69547		<1	84487		1
69548		<1	84488		1
69549		2	84489		4
69550		15	84490		2
84451		10	84491		8
84452		11	84492		370
84453		27	84493		21
84454		1496	84494		9
84455		529	84495		2
84456		36			
84457		29			
84458		5			
84459		1			
84460		2			
84461		<1			
84462		<1			
84463		<1			
84464		<1			
84465		<1			
84466		<1			
84467		<1			

REPORT: 016-5612

PROJECT: R-32

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
69395		1	69435		<1
69396		<1	69436		2
69397		<1	69437		1
69398		<1	69438		1
69399		<1	69439		23
69400		<1	69440		6
69401		<1	69441		8
69402		3	69442		3
69403		2	69443		1
69404		4	69444		3
69405		<1	69445		1
69406		1	69446		1
69407		4	69447		1
69408		8	69501		1
69409		3	69502		<1
69410		2	69503		<1
69411		2	69504		1
69412		2	69505		2
69413		2	69506		4
69414		1	69507		3
69415		2	69508		2
69416		2	69509		1
69417		13	69510		<1
69418		5	69511		1
69419		3	69512		1
69420		2	69513		11
69421		2	69514		29
69422		<1	69515		13
69423		1	69516		10
69424		<1	69517		3
69425		<1	69518		2
69426		7	69519		2
69427		<1	69520		1
69428		1	69521		<1
69429		1	69522		<1
69430		<1	69523		1
69431		<1	69524		2
69432		2	69525		<1
69433		<1	69526		1
69434		1	69527		1

5
49-2220
J3



Geochemical
Lab Report

REPORT: 116-5488

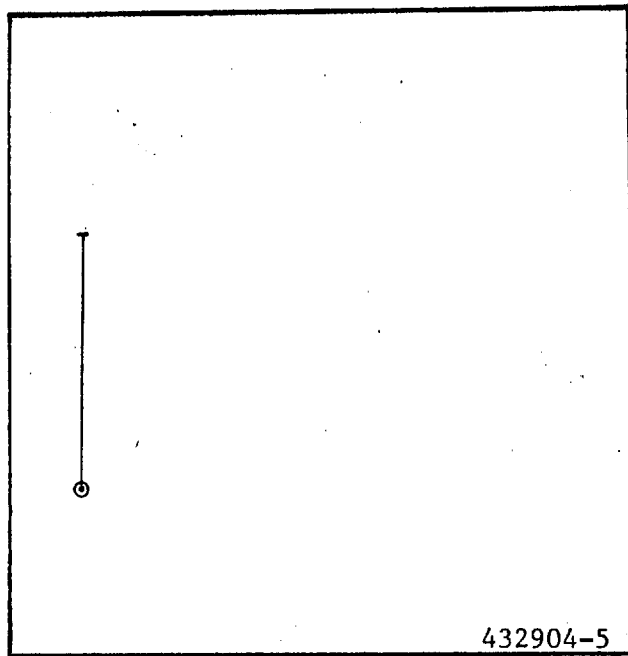
PROJECT: R-32

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Zn PPM
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69315		49
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69316		69
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432904-5

HOLE LOCATION

KNO-86-08

1:5000

0 meters 100

DIAMOND DRILL RECORD

NAME OF PROPERTY NO. 1 Q-32
 HOLE NO. KNO-86-08 LENGTH 251.76m = 826'
 LOCATION _____
 LATITUDE 9+60S DEPARTURE L 12+50E
 ELEVATION 0' AZIMUTH 360° DIP -50°
 STARTED Oct 14/86 FINISHED Oct 17/86

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
15.24	-45°		248.71	-25	
68.58	-38 1/2				
121.92	-38				
182.82	-31				

HOLE NO. _____ SHEET NO. 1/12
 REMARKS _____

LOGGED BY B.H. Gray

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	oz/ton
					FROM	TO	TOTAL			
0	14.63	Overburden								
14.63	15.58	Intermediate Hyaloclastite V6A (n) Tr vjg, Trcp								
15.58	16.76	Greywackie S3 ((n)) 'Tops' N Tr Po, Py								
16.76	18.49	Graphitic Argillite S4 (gp) Tr-10% Po								
18.49	20.76	Andesite - like or possible hyaloclastite V6n (dyd?) Tr Po with local concentrations								
20.76	23.43	Graphitic Argillite S4 (gp) 10% Po - local concs, 10% vj (g) with concs to 20%								
23.43	59.96	Andesites V6 (s) Tr Po, cp, tourmaline with local concentrations								
59.96	65.18	55.22-59.96 5% vjg w, Tr-3% w								
65.18	66.40	Porphyritic Mafic Dike? (Chlorite Porphyry) Andesite or chloritized Amphibolite V6c (dy?) / 411p								
66.40	76.15	Andesite V6								
76.15	122.34	Mafic Volcanic with narrow Cherty Exhalite V7, ch Exhalite 5% Po, Py 2% biotite								
		Andesite, locally Dioritic V6, ((2D)) ((n)) Tr Py, Trcp								
		After 93.86 - Po returns - Tr								
		104.0-122.34 25% Dioritic - gtz eyes, epidotized V6, 2Dg E								
122.34	127.7	Intermediate to felsic Crystal Tuff or Hyaloclastite V9a / V4b Tr Po 'Tops' N								
127.7	130.4	Interbedded Graphitic Argillites, Greywackies and mafic Tuffs S4 (gp), S3, V9j3								
130.4	196.39	Intermediate Volcanic V6/V4 ((n)) Tr Po with local concentrations								
		164.05-167.70 35% vjg								
		173.5-188.47 Volcanic with hyaloclastite horizons V6/(V4), ((V6A)) n (b)								
		173.5-192.3 Probably pillowed								
		188.47-196.39 Intermediate to mafic Volcanic V6								
		continued								

DIAMOND DRILL RECORD

NAME OF PROPERTY New Q-32
 HOLE NO. _____ LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 2/

REMARKS _____

LOGGED BY P. H. Gray

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL			
196.39	201.39	Transition Zone 70% Intermediate to mafic volcanic, 20% cherty Exhalite, 10% Qtz								
		1% Po with local concentrations								
201.39	242.33	Diorite with minor Andesite 'Tops' South 2D, (V6) Tr A ₂ , P ₁								
247.33	251.76	Andesite, locally coarse grained 10% Vg, 10% p.c.f. (j)								
	251.76	End of Hole								

DIAMOND DRILL RECORD

LOGGED BY J. H. Gray

PROPERTY Navy 0-32

LATITUDE 9°50'S BEARING OF HOLE 360° STARTED Oct 14/36

DEPARTURE L 12°50'E DIP OF HOLE -50° COMPLETED

ELEVATION 0' DIP TESTS DEPTH

D.D.H. No. KMD-35-03 PAGE 3/18

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au g/b	ASSAY		STUDY	
FROM	TO			FROM	TO			Sample	From	To	Au
0	14.63	Overburden									
14.63	15.58	Intermediate <i>Hyabakastite</i> U ₂ A (n) Fine grained, semi-soft (H=4 1/2), light pale green, moderately carbonized weakly schistose rK (S ₁ = 40° to CA) containing 5-10% lenticular qtz 'streaks' ranging from 1 to 10 mm x 1 mm - long dimension parallel to S ₁ . Tr Vlg and Tr Cp	68501	14.63	15.58	0.95	2				
15.58	16.76	Greywacke S3(n) Sharp upper contact parallel to S ₁ into this somewhat massive mg-cg, locally fg, grey, semi-soft (H=5) weakly carbonized rK containing ~10% irregularly shaped feldspar clast + 5% qtz clast in a siliceous and chloritic matrix. Felds clasts to 1 mm, qtz to 1/2 mm. Interval contains occasional thin argillaceous horizons. Particle grading suggests 'Tops' down hole = N. Semi-gradational lower contact. Mineralization includes Tr Po & Tr Py on fine disseminations and streaks	68502	15.58	16.76	1.08	<1				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
 ELEVATION _____ DIP TESTS _____ DEPTH _____

D.D.H. No. KNO-86-05 PAGE 4/18

CLAIM No. _____
 DIRECTION AND DISTANCE FROM
 NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au g/b	S&T, To	From	To	Stuck
FROM	TO			FROM	TO						
16.76	18.49	Graphitic Argillite S4(Gp.) fine grained, grey, laminated (S ₀ = 50° to CA) containing Tr-5% vj (local concentrations) and Tr-12% as primary bands to laminae 17.48-18.49 10% Po	68503	16.76	17.48	0.72	22				
			68504	17.48	18.49	1.01	11				
18.49	20.76	Ardesite (white or possible hydrochlorite) Vb n. (dy, A?) strongly carbonized, green, massive, 17 H ₂ S, mod to strongly carbonized rK containing Tr-12% vj (q) with local cones - most S ₀ to CA and ~ 2% euhedral felds (plag) phenos. to 2mm. Contacts are gradational => chilled margins. Tr Po massive with vj (2ndary) also with local cones. 19.21-19.67 10% vj (q) w ~ 3% osso = Po	68505	18.49	19.21	0.72	4				
			68506	19.21	19.67	0.46	21				
			68507	19.67	20.76	1.09	21				
20.76	23.43	Graphitic Argillite S4(Gp.) fine grained, grey-black containing ~ 2% vj (q) + 10% Po strings 21.41-21.64 coarser, 10% vj - random, 5% Po primary + assoc with vj 22.65-22.73 20% vj + 5% Po - primary + assoc w vj	68508	20.76	21.41	0.65	2	5812	20.11	23.16	6
			68509	21.41	21.64	0.23	12				
			68510	21.64	22.65	1.01	9				
			68511	22.65	22.73	0.08	14				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-25-02 PAGE 5/18

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Al ppb	Sample No	Struc No	
FROM	TO			FROM	TO				From	To
22.43	59.90	1 Andesites U6 (S)	68512	22.73	23.42	0.70	6			
		Fine to medium grained, medium green, massive to very weakly schistose (S ₁ = 40° to CA) semihard (S = 5 1/2) variably silicified => now to mod, locally fractured i.e. the fractures commonly contain hematite + calcite (P ₂) and having various orientations								
		These contain sharp + parallel S ₂ of S4 (sp) above and is prob by a thin biotite-like. Note rare interflow sand horizon = S4 (sp). Other mineralization includes P ₂ assoc with vj								
		23.43 - 24.03 biotite + flow	68513	23.43	24.03	0.60	1	5813	23.16	26.21
		24.03 - 24.38 interflow sed on xenolith S4 (sp) w 5% P ₂ + Tr Cp	68514	24.03	24.38	0.35	14			
		24.38 - 26.41 fine grained, wk to mod fractured, Tr P ₂ + Cp	68515	24.38	26.41	2.03	1			
		26.41 - 26.52	68516	26.41	26.52	0.11	1			
168		→ 27.25 - 32.0 f.g. moderately silicified and fractured, 2-5% vj(w) f.f.	68517	27.25	27.77	0.52	21	5814	26.21	29.26
		27.77 - 28.5 5% vj(w)	68518	27.77	28.5	0.73	1			
		28.5 - 28.77 75% interflow ss S4 (sp) + S4/S3 - q	68519	28.5	28.77	0.27	<1			
165		→ 33.79 - 36.96 f.g. mod silicified and fractured 2-5% vj(w) P ₂ (ss)	68520	28.77	29.52	0.75	1			
		gradational increase of S into + out of interval	68521	29.52	32.0	2.48	1	5815	29.26	32.31

check →

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KND-86-05 PAGE 5/18

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE FROM TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM TO		SAMPLE LENGTH	Au ppb	Sample No.	St. du. du.		Au
								From	To	
	33.79-34.25 3% v.w.	68522	33.79	34.25	0.46	1				
	35.09-35.88 5% v.w. P ₂	68523	34.25	35.09	0.84	4	5816	32.31	35.36	6
	35.88-36.21 7% v.w. P ₂ (cp) v.c. r. d.	68524	35.09	35.88	0.79	<1				
V68 →	40.16-41.66 mod s + fractured 1-5% v.w. P ₂	68525	35.88	36.21	0.39	2	5817	35.36	38.4	5
	40.93-41.66 5% v.w. - 1 v.w. = 4500 p.p.m. v.w. P ₂ - Tr. Cp	68526	36.21	36.96	0.75	1				
	41.58-45.27 35% scattered v.g.w.	68527	37.49	40.16	0.67	1	5818	38.4	41.45	2
	45.79-46.50 70% v.g.w. wk A 1x18cm bull. g. 2	68528	40.16	40.93	0.77	<1				
	46.50-46.95 5% v.g.w. x cutting wk host schistosity	68529	40.93	41.66	0.74	1	5819	41.45	44.5	3
	47.64-48.40 2% v.g. - scattered - mostly shallow to CA. Tr. P ₂	68530	41.66	42.40	0.74	1				
	48.40-49.66 30% pct + 5% s.s. (g.p.) + 10% green arg. + interflow seds?	68531	44.58	45.27	0.69	<1	5820	44.5	47.55	5
	→ 47.64-50.18 appears more red than v.c. in origin	68533	45.27	45.79	0.52	<1				
		68534	45.79	46.50	0.71	1				
		68535	46.50	46.95	0.45	<1				
		68536	46.95	47.64	0.69	1				
		68537	47.64	48.40	0.76	1	5821	47.55	50.6	15
			48.40	49.66	1.26	3				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____
 TUBE _____ BEARING OF HOLE _____ STARTED _____
 STRUCTURE _____ DIP OF HOLE _____ COMPLETED _____
 LOCATION _____ DIP TESTS _____ DEPTH _____

D.D.H. No. KND-85-08 PAGE 7/18

CLAIM No. _____
 DIRECTION AND DISTANCE FROM
 NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au gph	Sludge			
FM	TO			FROM	TO			Samples	From	To	pph
55.22 → 58.90	49.66-50.18	10% carb-grt patches (primary cavity filling = pcf) V6 5% vfgw. This is still very similar to above except contains Trupto 3% an-cubedol tourmaline crystals to 3mm + abundant vfgw. Mineralization includes Tr Po + Tr Ep - associated with vfgw. These are scattered	68538	49.66	50.18	0.52	1				
	52.22-52.94	3% tour x-tals, Tr Po - associated pcf	68539	52.22	52.94	0.72	2	5822	50.6	53.64	11
	52.94-53.42	50% vfgw, moderately fractured = vfgw fracture w ig ff - some fg have pink hue	68540	52.94	53.42	0.48	9				
	53.42-54.18	3% tour crystals, 1% vfg	68541	53.42	54.18	0.86	1	5823	53.64	56.69	5
	54.18-54.65	25% vfgw + 3% tour x-tals	68542	54.18	54.65	0.47	9				
	54.65-54.77	90% vfgw - some gfw pink hue	68543	54.65	54.77	0.12	3				
	54.77-55.64	Tr tour crystals	68544	54.77	55.64	0.87	41				
	55.64-56.33	10% vfg e - 45° to CA but also folded	68545	55.64	56.33	0.69	41				
	56.33-57.08	contains possible 25cm hyaloclastite, 1% w	68546	56.33	57.08	0.75	41	5824	56.69	59.74	8
	57.08-57.40	20% vfgw, Tr Po, Ep - v e 70° to CA	68547	57.08	57.40	0.32	10				
	57.40-57.50	60% vfgw	68548	57.40	57.50	0.10	41				
	57.50-58.67	70% vfg	68549	57.50	58.67	1.17	1				

LOGGED BY

PROPERTY

LATITUDE

BEARING OF HOLE

STARTED

DEPARTURE

DIP OF HOLE

COMPLETED

ELEVATION

DIP TESTS

DEPTH

D.D.H. No. KNo-26-05 PAGE 8/1

CLAIM No.

-DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ANALYSIS					
FROM	TO			FROM	TO		Au	Sg	Pb	Sludge		
		58.67-59.70 10% vfg + 1% w										
59.70	65.18	Porphyritic Mafic Dike: (Chlorite Porphyry Andesite) V6 (dy) Ht 35901 Color greenish dark green to white relatively massive, gr S _i = 50° to CA rk with a sharp upper and gradually turning contact - very - 50° to CA (Top south?) Interval contains 5% f.g. mafic volc xenoliths(?) some with dentate boundaries. Local tour concentrations to 5% No visible sulphides. Gets finer grained & contains gt. tour vein concentrations in last 1 meter	68550	58.64	59.90	1.26	13					
			35901	59.90	60.91	1.01	1	5825	59.74	62.79		

DIAMOND DRILL RECORD

LOGGED BY _____

IDENTITY _____
 TUBE _____ BEARING OF HOLE _____ STARTED _____
 TEMPERATURE _____ DIP OF HOLE _____ COMPLETED _____
 LOCATION _____ DIP TESTS _____ DEPTH _____

D.D.H. No. KNO-86-08 PAGE 9/18



CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

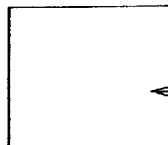
FOOTAGE A TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	# of P.A.B.	Sample No.	Structure		
			FROM	TO				From	To	Depth
	sharp contact with the volcanic on 650 to CA and are cherty in composition (green, shaly) up to 5% stringers + bands + scale of Po:Py to 3mm width, (random) + 2ndary Po:Py with fracture surface to 5m which is 650 to CA, (random) + 2ndary - four veins (diameters of 25cm) are visible					1				1
66.42 - 66.89	Exhalite - 150% Po:Py in 1st 10cm	35905	66.42	66.89	0.49	2	5827	65.84	68.88	4
66.89 - 67.15	Int. exhalite	35906	66.89	67.15	0.26	1				
67.15 - 67.28	Exhalite 15% Po:Py	35907	67.15	67.28	0.13	1				
67.28 - 67.51	50% v. g. + patches - random orientation	35908	67.28	67.51	0.23	4				
67.51 - 68.31	Exhalite w Tr stringer Po	35909	67.51	68.31	0.80	4				
68.31 - 68.73	Exhalite w minor buff, 5-10% Po:Py	35910	68.31	68.73	0.42	3				
68.73 - 70.16	Exhalite, Tr Po threads	35911	68.73	70.16	1.43	1	5828	68.88	71.93	2
70.16 - 71.63	Exhalite w Tr tour + Tr old leucocryst ??	35912	70.16	71.63	1.47	1				
71.63 - 72.23	Exhalite	35913	71.63	72.23	0.60	2				
72.23 - 72.52	Exhalite, Tr Po	35914	72.23	72.52	0.29	1	5829	71.93	74.98	16
72.52 - 72.75	Exhalite	35915	72.52	72.75	0.23	4				
72.75 - 73.01	Exhalite, v. w. k. A, 10% v. f, 1% Po	35916	72.75	73.01	0.26	3				

LOGGED BY

VATION

DIP TESTS

DEPTH



CLAIM No.



-DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au pph	Sample L	From	To	Sludg	ppb
DM	TO			FROM	TO							
		73.01 - 73.65 Map - Int Vole	35917	73.01	73.65	0.64	41					11
		73.65 - 74.15 Extralike + T ₁ M ₂ ~ 27% Po + 17% vt v.w.k &	35918	73.65	74.15	0.50	1					
		74.15 - 74.34 Map - Int Vole	35919	74.15	74.34	0.19	41	5830	74.98	78.03		12
		74.34 - 75.25 Extralike, little in top 22 cm 17% f.d. Po + str.	35920	74.34	75.25	1.01	1					
		75.25 - 75.61 Extralike 107% Po, Tr Py Tr Cp, Some near extralike.	35921	75.25	75.61	0.26	4					
		more talcing + &, sulphide primary + secondary, 185 cm vq	35922	75.61	76.15	1.54	1					
		75.61 - 76.15 75% Vq, wt & - 2ndary, 17% Po, Tr Cp	35923	76.15	77.10	0.95	1					
		also in vq, some in last 10 cm of 40% Po, 17% Cp										
		in fractures within vq										
15	73.34	Intermed. to basic Volcanic, locally Dioritic V ₆ (20)(M ₂), Fine to coarse grained, dark green with 5-30% white felsic, anhedral crystals (plag) and vibros (look like old leucocrase or carbonates but neither). Internal cut by scattered vq to minor size of 40 cm, and vif to 10 cm - vq from shallow to deep to CA, vif mostly 60° to CA wks S ₁										

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KIVO-86-0P PAGE 11/18

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	AL	Structure			
FROM	TO			FROM	TO			Sample	From	To	gr
		Mineralization includes Tr Pyrites in v.ole, Tr Cp as soc									
		to vqj, local concs of Po									
		78.39-78.66 27 vj	35924	78.39	78.66	0.27	1				
		78.66-78.94 507 vqj (f) wk	35925	78.66	78.94	0.28	1	5831	78.03	81.08	3
		78.94-79.75 1x 5cm vqj	35926	78.94	79.75	0.81	1				
		79.75-80.06 757 vqj - scattered wk	35927	79.75	80.06	0.31	1				
		80.06-80.33 957 vqj Tr Cp - siliceous	35928	80.06	80.33	0.27	2				
		80.33-80.87 507 vqj e 200 to CA	35929	80.33	80.87	0.54	1				
		80.87-81.73 Interflowed ?? 357 vqj	35930	80.87	81.73	0.86	2				
		81.73-82.07 357 vj scattered wk	35931	81.73	82.07	0.34	1				
		→ 93.86-97.0 Tr tourmaline	35932	82.07	82.79	0.72	1	5832	81.08	84.12	5
		→ 93.86-95.33 3-57 Po	35933	82.79	83.18	0.39	3				
		95.13-95.33 57 Py + Po as soc in vj Tr Cp	35934	83.18	83.97	0.79	3	5833	84.12	87.17	3
		97.17-97.73 57 vfg with mottled	35935	83.97	84.12	0.15	1	5834	87.17	90.22	9
		97.73-99.50 mafic v.ole	35936	84.12	84.97	0.85	3	5835	90.22	93.27	2
		99.5-99.91 1x 25cm vj (small tw) e 0.5 to CA, Tr Py, wk	35937	84.97	85.33	0.36	4	5836	93.27	96.32	2
104.0	122.3	Dioitic sections more common - 257 - these common	68551	95.33	96.10	0.77	2				

V6, 2Dgt

DIAMOND DRILL RECORD

LOGGED BY _____

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LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. VNo-86-03 PAGE 12/

CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au	Sample		Sludge
FROM	TO			FROM	TO			Form	To	
		being epidotized, containing - 57 bluish grtz and	68552	97.17	97.73	0.56	13			11
		Tr-1 $\frac{1}{2}$ Po + Py. Sharp contact at bottom = Top of N (down hole)	68553	97.73	99.60	0.77	5			
		104.0 - 105.57 to 72 Dg E, but 20 cm in 57 vf (patch), Tr	68554	99.5	99.91	0.41	4	5837	96.32	99.36
		106.90 - 107.17 tourmaline - carb. grtz vein (72.7 w)	35938	104.0	105.57	1.57	1	5838	99.36	102.41
		- sharp contacts at 35° to CA	35939	106.90	107.17	0.51	41	5839	102.41	105.46
		108.14 - 108.81 very strongly epidotized, Tr Py, 17 vf &	35940	106.90	107.17	0.27	41	5840	105.46	108.51
		various angles to CA	35941	107.17	108.02	0.26	2			
		110.66 - 111.72 Tr Po, 16	35942	108.14	108.81	0.67	41		End of Sludge	
		111.72 - 112.03 as above (108.14 - 108.81)	35943	110.66	111.72	1.06	1			
		112.36 - 112.85 as above 108.14 - 108.81	35944	111.72	112.03	0.31	3			
		117.65 - 118.69 mod epz, coarse 10 cm in 757 vf - scattered	35945	112.03	112.36	0.33	2			
		118.69 - 119.96 as above w vf scattered throughout, Tr Po	35946	112.36	112.85	0.49	4			
		119.96 - 120.10 central 5 cm vj ^{pink} @ 45° to CA - cutting	35947	112.85	114.23	1.38	1			
		host S ₁ which = 60° to CA - Tr cp in vein, Tr Po	35948	117.65	118.69	1.04	1			
		Particularly sharp lower contact	35949	118.69	119.96	1.27	41			
		120.17 - 120.34 central 5 cm vj w, contact	35950	119.96	120.10	0.04	1			
			68555	120.17	122.34	0.17	1			

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KND-86-08 PAGE 13/

CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST _____

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH				Sludg
FROM	TO			FROM	TO					
122.34	127.7	Int. felsic ^{crystal} Tuff or Int Hyaloclastite V9 ₂ / V4 A Light chloritic green matrix, fine to medium grained, semi- soft (H=4 1/2-5) moderately coherent & laminated 1k (S ₀ = S ₁ = 60° to CA) contains a 57 semi-crystalline plg = 57-107 micrometers is 2 mm long dimension Tr Po, Graded bedding suggestive Top V9 ₂ = N Scattered v. g.								
		122.34-123.39 27% v. g.	68556	122.34	123.39	1.05	<1			
127.7	130.40	Interbedded Graphitic Argillites and Greywackes ^{Tuff} S4(Gp), S3 S ₀ = 60° to CA Tr Po streaks // S ₀ . Tr (p, Po, Py, Sp assoc = v. g. 128.29 - 129.19 Gp (S4) + Tr (p, Po, Py, Sp								
		→ 127.7-130.40 Interbedded V9 ₂ , S4(Gp) + S4								
		→ 129.19-130.40 Interbedded V9 ₂ , S4(Gp) + S4								
130.40	196.39	Intermediate Volcanic V6 / V4 ((n)) Fine to medium grained, medium green semi hard (H=5), massive								

DIAMOND DRILL RECORD

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CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	K _u pph	Sludge	
FROM	TO			FROM	TO				
		variably carbonized volc with occasional bands of interflow	68558	136.8	137.32	0.52	11		
		seds = argillites. Mineralization includes traces of Pb	68559	137.32	137.39	0.07	2		
		137.32 - 137.39 3% f.d. Pb	68560	137.39	137.74	0.35	3		
		140.90 - 141.71 interflow seds, 5% vj, 1% Pb	68561	140.90	141.41	0.51	3		
		141.41 - 141.50 25% vj, 5% Pb	68562	141.41	141.50	0.09	3		
		142.29 - 143.11 10% calc p.c.f.	68563	141.50	141.71	0.21	2		
		153.14 - 153.61 40% vj, 5% Pb & 1% calc + f.d.	68564	142.29	143.11	0.82	<1		
		→ 164.05 - 167.70 vj, calc + Pb ~ 35% of it - most part	68565	152.70	153.14	0.44	<1		
		S ₁ = 60° to CA	68566	153.14	153.61	0.47	7		
		167.06 - 167.70 minor fracturing 0° to CA	68567	153.61	154.23	0.62	<1		
		168.17 - 168.33 40% vj kg	68568	164.05	164.74	0.69	2		
		→ 169.0 - 172.51 Possible mafic-int f - w/ly laminated	68569	164.74	165.52	0.78	<1		
		→ 172.51 - 173.50 interflow seds 54 (6%) Tr-17% Pb	68570	165.52	166.32	0.80	10		
		→ 173.50 - 188.47 intermediate volc with thin basaltic-like horizons	68571	166.32	167.06	0.74	<1		
		V6 (V4), (V6A) n.d. moderately to strongly	68572	167.06	167.70	0.64	<1		
		carbonized (probably pillowed to 192.3")	68573	167.70	168.17	0.47	<1		
		→ 188.47 - 192.35 Int → Mafic Volc V6 - Notably coarser in bottom 1 m	68574	168.17	168.33	0.16	1		

DIAMOND DRILL RECORD

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BEARING OF HOLE _____

STARTED _____

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COMPLETED _____

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DEPTH _____

D.D.H. No. _____

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CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
		200.90 - 201.39 Intermediate hyperbasalts + 1x Tan vgg								
201.39	247.33	Diorite with minor coarse grained Andesite 20, (1/5) Subt and drt green, coarse grained amphibolical clusters of vgg and chlorite. Scattered vgg and vfg up to 10 cm in width at various angles to CA. V. sharp upper, gradual lower contact								
		203.2 - 203.75 17 vgg Tr Po, Py, Tr blue gk	68589	203.2	203.75	0.55	LI			
		207.50 - 208.87 17 vgg Tps up to 5	68590	207.50	208.87	1.37	2			
		208.87 - 209.45 1x 1m vgg in Tr Po, Cp	68591	208.87	209.45	0.58	1			
		211.13 - 211.75 2x 1cm vgg - 1 in Tr Po, Sph?	68592	211.13	211.75	0.64	4-Au, Zn			
		212.81 - 213.58 mafic vgg xenolith with 10% vgg + 15% vfg + Tr f.d. Po	68593	212.81	213.58	0.77	LI			
		214.36 - 215.05 5% vfg + patches	68595	214.36	215.05	0.69	LI			
		216.13 - 216.26 vgg 250 ft CA	68596	216.13	216.26	0.13	LI			
		216.26 - 216.55 jf patch ~ 50%	68597	216.26	216.55	0.29	LI			

DIAMOND DRILL RECORD

LOGGED BY _____

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BEARING OF HOLE _____

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D.D.H. No. 445-86-08 PAGE 17/



CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST _____

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
		232.25 - 222.37 vgw wk A	68599	216.26	216.55	0.29	41			
		224.33 - 224.64 40% yf., 1% ep	68600	221.25	222.25	0.97	41			
		231.10 - 231.44 1x10cm vgw @ 40° to CA	68601	222.25	222.37	0.12	41			
		232.11 - 232.51 20% of patches Tr P	68602	222.37	223.54	1.17	4			
		235.74 - 235.78 f.g. volc ash or gravel	68603	224.27	224.64	0.31	41			
		235.98 - 236.43 1x1cm + 1x10cm vgw @ 50° to CA	68604	224.24	225.11	0.47	41			
		Si. wk = 50° to CA	68605	231.10	231.44	0.34	41			
		240.16 - 240.17 35% vq ss - 90° to CA	68606	231.44	232.51	1.07	8			
		242.48 - 242.54 5cm vq in @ 60° + out @ 85° to CA	68607	235.12	235.74	0.62	1			
		246.13 - 247.12 Tr - 1% fd P + 2% blk chn (m. bitile?)	68608	235.74	235.98	0.24	41			
		247.12 - 247.33 1x10cm vq juv w 1% P salvage, Tr P	68609	235.98	236.43	0.45	41			
		in boot sk + 2% blk chn?	68610	236.43	237.13	0.70	5			
			68611	237.44	240.16	0.72	3			
247.32	251.76	Anderslev V6, ((20))((1))	68612	240.16	240.17	0.01?	1	}	Is this Puro. b	
		Green, fine, locally coarse grained sandstone (H-S), locally	68613	240.17	241.04	0.87?	2			
		carbonized with 1% vq + 10% pcf (j) - 5%	68614	241.04	241.51	0.47	2			
		qtz + felds. angulites in last 1m. = Δ?	68615	241.51	242.48	0.97	1			

LOGGED BY

PROPERTY

L A T I T U D E

BEARING OF HOLE

STARTED

DEPARTURE

DIP OF HOLE

COMPLETED

ELEVATION

DIP TESTS

DEPTH

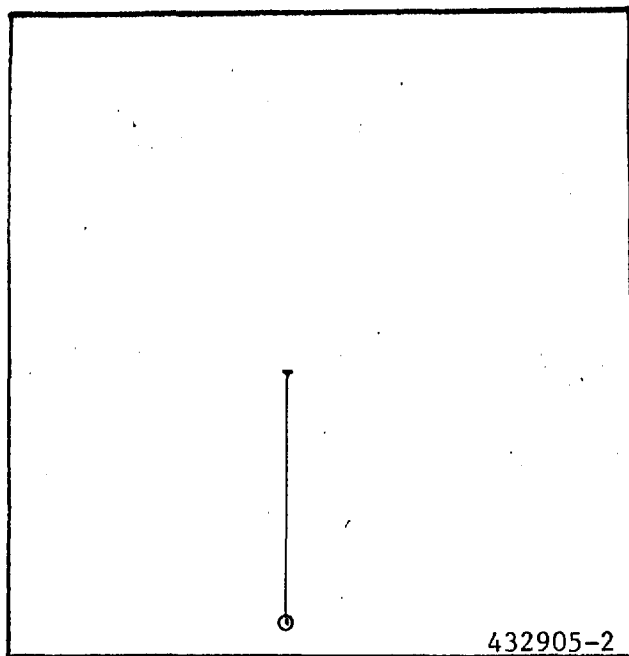
D.D.H. No. KA/9-86-08 PAGE 18/11

CLAIM No.

-DIRECTION AND DISTANCE FROM:

NE. CLAIM POST

[illegible]



432905-2

HOLE LOCATION
KNO-86-09

1:5000
0 meters 100

DIAMOND DRILL RECORD

LOGGED BY R. H. Gray

PROPERTY Noyon Q-32

LATITUDE 21° 40' S

BEARING OF HOLE 360°

STARTED Oct 17/86

DEPARTURE 141° 10' E

DIP OF HOLE -50°

COMPLETED Oct 20/86

ELEVATION 0

DIP TESTS 50° @ 18.9m, 48° @ 66.96m, 27 1/2° @ 182.88m, 19° @ 239.57m

DEPTH 242.62m = 796'

D.D.H. No. KNO-86-09 PAGE 1/10

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
0	18.90	Overburden								
18.90	66.29	Andesitic Hyaloclastite V6 Δ								
		29.20-29.76 Mafic Dike								
		42.50-59.74 Qtz-Carb-Felds Veins = 2-3% of core								
66.29	69.69	Sheared Hyaloclastite or Felsic Agglomerate V6 Δ #/V10 Δ 'Tops' S								
69.69	103.53	Andesitic Hyaloclastite V6 Δ								
		95.19-103.35 Weak to Moderately Sheared - similar to 66.29-69.69		Tr Po		V6 Δ (#)				
103.53	133.21	Basalt V7 Tr Py, Tr haematite,								
133.21	150.56	Andesite V6 Tr Py, local concentrations								
150.56	242.62	Mafic Volcanic V5 (N)								
		153.72-153.95 Fault Gouge								
		183.69-184.87 50%-75% vwj								
		187.76-212.70 Possible Greywackes with minor Volcanic		S3		(47/V5)				
		200.57-205.01 Up to 60% vwj with Py and Po								
		211.88-222.0 5-15% carbonate strings + altered 'leucorenes' (?)								
		226.87-230.43 Andesitic Hyaloclastite								
		233.90-242.62 Weak to Moderately Sheared Mafic Volcanic		V6 (#)j		Tr Py with local concentrations				

242.62 End of Hole

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY Alcon P-22

LATITUDE _____ BEARING OF HOLE _____

DEPARTURE _____ DIP OF HOLE _____

ELEVATION _____ DIP TESTS _____

STARTED Sat Oct 17/86

COMPLETED Mon Oct 20

DEPTH _____

D.D.H. No. KNO-86-09 PAGE 2/10

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	A ₁	ASSAY			
FROM	TO			FROM	TO						
0	18.90	Overburden					11.6				
18.90	66.29	Andesitic Kysloctobite V6 Δ Tr-17									
		fine to medium grained, pale green, semi-hard (H=5-5½)									
		wkly sub-stone wkly laminated (S ₁ =S ₀ =60° to CA) rk									
		containing Tr carb f.f. and Tr-1% scattered vqj plus Tr-5%	68734	22.10	23.36	1.26	<1				
		leucite gte shards to 3mm long dimension. No	68735	23.36	24.03	0.67	<1				
		visible sulphides	68736	24.03	24.45	0.42	<1				
		23.36-24.03 10% vqj, vukA - vqj from α -90° to CA	68737	24.45	25.39	0.94	3				
		24.03-24.45 70% vqj(j) 85° to CA	68738	27.77	29.20	1.43	1				
		29.20-29.76 Mafic dike containing minor chlorite porphyroblasts	68739	29.20	29.76	0.56	<1				
		32.51-33.52 5% vqj + j p.c.f.	68740	29.76	30.86	1.10	<1				
		37.09-37.21 central 10 cm vq(j) α 55° to CA	68741	30.51	33.52	1.01	1				
		→ 42.50-59.74 vqj (A) = 2-37.09 core - most steep to CA - wkly Δ	68742	35.97	37.09	1.12	<1				
		Mafic Ash Tuffs $\approx$ 5% of interval - these w. Tr Py	68743	37.09	37.21	0.12	<1				
		→ 42.50- Bedded Kysloctobites + minor f.g. Tuff or Flow	68744	37.21	37.98	0.77	<1				
			68745	42.5	43.0	0.50	<1				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KMO-86-09 PAGE 3/10

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	A-1 ppb	ASSAY			
FROM	TO			FROM	TO						
		42.5-43.0 10% vjg 55-900 to CA	68746	43.0	43.85	0.85	<1				
		43.85-44.18 vjg, Ti Py	68747	43.85	44.18	0.33	<1				
		45.50-46.0 1x20cm patch + 1x5cm vein - vjg	68748	45.50	46.0	0.50	2				
		53.91-54.45 5% vjg, wk A	68749	46.0	47.44	1.44	2				
		54.86-55.16 2x1m wide pink felsic veinlets & cutting S&S. ^{→ vjg-sparag?}	68750	47.44	49.09	1.65	<1				
		55.22-56.56 Ti primary Pg strings 1/5 - Good S. @ 45°	68751	49.09	50.05	0.96	1				
		57.73-58.00 10% vjg - scattered to 5cm, 1 vjg string	68752	50.05	50.70	0.65	1				
		58.49-59.26 wk A + 50% vjg in 1st 15cm	68753	50.61	53.91	1.30	1				
		59.26-59.94 20cm fracture @ 50 to CA, about 20cm	68754	53.91	54.45	0.54	<1				
			68755	54.45	54.86	0.41	<1				
			68756	54.86	55.16	0.30	<1				
			68757	55.82	56.56	0.74	<1				
			68758	56.56	57.73	1.17	<1				
			68759	57.73	58.08	0.35	3				
			68760	58.08	58.49	0.41	2				
			68761	58.49	59.26	0.77	<1				
			68762	59.26	59.94	0.68	<1				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. _____

PAGE 9/10

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO		Ag	Fe	Si	Other
		59.94 - 60.51 strongly silicified mafic ash tuff	68763	59.94	60.51	0.57				
		C 61.86" 2 cm section with glz filled tensional fractures @ 90° to CA	68764	63.26	63.94	0.68				
		63.26 - 63.94 Tr P _o	68765	63.94	64.75	0.81	2			
		→ 63.94 - 66.29 S-10% glz shards - possibly pillowed?		66.29						
66.29	69.69	Felsic Aggregate 110% in Sheared Pyroclastic Volc ≠								
		Light and medium green with semi-bed f.g. intermediate to mafic	68766	66.29	67.72	1.43	1			
		matrix (chloritic) matrix containing a 30% felsic or silicified clasts up to	68767	67.72	68.21	0.49	2			
		2 cm wide but most are ~ 1/2 cm and are lenticular	68768	68.21	69.0	0.79	21			
		Clasts commonly contain glz 'shards' and thought to be	68769	69.0	69.69	0.69	21			
		pyroclastic in origin (epid. positional burp?) - Sharp lower								
		contact @ 75° to CA = 11 S _i + Gradational upper contact suggests								
		'Taps' uphole = S, Tr-1% scattered vgi								
		57.72 - 68.21 2% vgi, 2% felsic f.f @ 65° to CA - x-cutting S _i								
		68.21 - 69.0 contains 2 x 3 mm uphole as above - assoc with								
		glz + carb								

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-9 PAGE 5/10

CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST _____

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	AN		Zn		ASSAY	
FROM	TO			FROM	TO		ppb	ppm				
69.69	103.53	Andesitic Hyaloclastite : V6 A	68770	69.69	70.29	0.60	<1					
		same as 18.90 - 66.29	68771	70.29	71.22	0.93	<1					
		→ 69.69 - 76.61 S-10% qtz shands - possibly pillowed	68772	71.22	71.29	0.07	1					
		71.22 - 71.29 60% vjif, Tr Py, P ₂ Vg??	68773	71.29	72.47	1.18	<1					
		72.47 - 72.70 20% vjif, vjif 11 S ₁ , Vg xcutting	68774	72.47	72.70	0.23	<1					
		→ 90.0 - 93.83 slightly more felsic	68775	90.0	91.17	1.17	<1					
		90.0 - 91.17 central 30 cm blocky, broken, S ₁ = 65% b.c.A	68776	91.17	92.10	0.93	<1					
		92.10 - 92.57 Mf. dike	68777	92.10	92.57	0.47	<1					
		→ 95.19 - 103.35 - Rk similar in appearance to 66.29 - 69.69	68778	92.57	93.83	1.26	<1					
		Wk → Mod Sheared Hyaloclastite? containing Tr P ₂	68779	93.83	95.19	1.36	<1					
		96.31 - 96.9 3% vjif - steep to CA	68780	95.19	96.31	1.12	<1					
		97.65 - 97.88 mod fractured w 2% dk or locally dk ironing	68781	96.31	96.9	0.59	<1					
		qtz, emb f.l. containing Tr Py, Sph? Most fractures	68782	96.9	97.65	0.75	<1		57			
		e 60% CA but also up to 70% b.c.A	68783	97.65	97.88	0.23	<1		74			
		97.88 - 98.26 mod-str fractured, 3% fractures as above	68784	97.88	98.26	0.38	<1					
			68785	98.26	99.47	1.21	<1					
			68786	99.47	100.95	1.48	<1					

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. *K/6-86-09* PAGE *6/10*

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	AN	ASSAY			
FROM	TO			FROM	TO						
103.53	133.21	Basalt V7	68781	102.95	102.61	1.66	<1				
		Dark green, fine grained, 17 hardness H= 4 1/2 S, massive to	68788	102.61	103.53	0.92	<1				
		weakly schistose S ₁ = 70° to CA (locally 65-90° variable)	68789	103.53	104.50	0.97	1				
		Tr Py locally, Tr haem. Sharp upper contact & a 65° to CA	68790	108.52	109.07	0.55	<1				
		Gradational, questionable lower contact	68791	111.56	112.29	0.71	<1				
		108.52-109.07 Tr Py aggr + streaks (primary)	68792	113.72	114.99	1.27	<1				
		111.56-112.29 Tr Py as above									
		113.72-114.99 Tr Py or Sem vjg 55° to CA	68793	116.62	117.09	.47	<1				
		sample here? Tr Py and f.s.	68794	121.12	122.79	1.67	1				
		124.91-125.07 18cm + smaller black (d) jg w orange rim = j also	68795	124.23	124.91	0.68	3				
		132.75-132.92 45% vjg	68796	124.91	125.07	0.15	2				
			68797	125.67	125.67	0.60	<1				
133.21	130.56	Andesite V6	68798	129.8	130.71	0.91	<1				
		fine grained, silty lighter green than above, massive	68799	132.75	132.92	0.17	<1				
		to weakly schistose, thin hyaloclastite horizons minor	68800	132.92	133.21	0.29	<1				
		Tr Py	68801	133.21	132.97	0.76	1				
		135.32-135.67 2% py in central Sem jg p.c.f	68802	135.32	135.67	0.35	5				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. _____

PAGE 7/10

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au		2n		ASSAY	
FROM	TO			FROM	TO		ppb	ppm				
		136.33-136.88 37 aggr. f.d. bands of Py, Sph?	68803	135.67	136.33	0.66	1	71				
		136.88-139.92 Tr-17 aggr. f.d.	68804	136.33	136.88	0.55	8					
		144.54-145.76 17 vjg f. - w/ d in veins - steep to CA	68805	136.88	138.44	1.56	<1					
		146.75-146.92 1x5cm vjg - patch in local red hue	68806	138.44	139.92	1.48	<1					
		148.52-148.83 1x5cm vjg P 30° to CA w/ hair all/h	68807	144.54	145.76	1.22	<1					
		+ minor hematite in host, 3mm wide conc. of Py = Py	68808	146.75	146.92	0.17	<1					
		149.75-149.88 37 vjg, Tr-17 aggr. Py - veins steep	68809	146.92	148.52	1.60	2					
		150.56-151.50 mg. n w 10% jg f.f. + Tr hematite	68810	148.52	148.83	0.31	1					
		151.50-152.0 w/ky stream	68811	148.83	149.75	0.92	2					
		152.0-152.5 11 vjg f.f. - 11 vjg f.f. - 11 vjg f.f.	68812	149.75	149.88	0.13	2					
		150.56-151.50 Mafic Volcanic, rest no value, locally mag	68813	149.88	150.56	0.68	1					
		153.72-153.95 Fault Gouge	68814	150.56	151.50	0.94	<1					
		170.55-171.25 57 vjg - variable but steep to CA	68815	151.50	152.0	0.50	<1					
			68816	153.72	153.95	0.23	<1					
			68817	153.95	154.49	0.54	1					
			68818	167.30	169.07	1.77	<1					
			68819	170.55	171.25	0.70	1					

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
 ELEVATION _____ DIP TESTS _____ DEPTH _____

D.D.H. No. KNO-86-07 PAGE 8/1

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au	ASSAY			
FROM	TO			FROM	TO						
		183.69-184.06 75% vq wj rim + Tr w - patchy, shallow to CA, 1% Py in host	68820	176.81	177.87	1.06	<1				
			68821	183.69	184.06	0.37	<1				
		184.71-184.87 50% vq wj + Tr w 30-45° to CA 2% Py	68822	184.06	184.71	0.65	<1				
		187.76-188.49 Tr cubic Py, wk 2, S ₁ v.wk = 70° to CA	68823	184.71	184.87	0.16	3				
		193.96-194.96 60% vq wj, Tr-1% Py in host	68824	184.87	186.45	1.28	3				
		→ 187.76-212.70 Possible greywackies? with minor basalt. Brownish lenticular/prismatic crystals =? 1-3% of core - presence of these define the sect??	68825	187.76	188.49	0.73	<1				
			68826	188.49	189.66	1.17	1				
			68827	192.59	193.96	1.37	<1				
			68828	193.96	194.36	0.40	<1				
		198.54-198.80 1x5cm + 1x15cm vq @ shallow angle to CA	68829	198.54	198.80	0.26	<1				
		199.70-199.95 30% vqj. Tr Py in host + in vein	68830	198.80	199.70	0.90	18				
		199.95-200.57 2% cubic Py, wk 2	68831	199.7	199.95	0.25	<1				
		200.57-201.0 50% vqj, 0-45° to CA, Tr-1% Py, Tr Po	68832	199.95	200.57	0.62	<1				
		201.23-201.61 60% vqj 0-90° to CA 1% Py - 2 veins 1x15cm + 110cm	68833	200.57	210.0	0.43	<1				
		203.27-204.13 2% scattered vqj to 3cm - steep to CA	68834	210.0	201.23	0.23	<1				
		204.57-205.01 40% vqj - some grey Tr-1% fd tagg Py	68835	201.23	201.61	0.38	9				
		205.01-206.58 S ₂ developed in last 100cm - fold hinge → S ₂ = 20° to CA after 0° ccr, S ₁ = 75° to CA	68836	201.61	202.31	0.70	4				

DIAMOND DRILL RECORD

LOGGED BY _____

D.D.H. No. KNC-86-09 PAGE 9/10

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

PROPERTY _____

LATITUDE _____ BEARING OF HOLE _____ STARTED _____

DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____

ELEVATION _____ DIP TESTS _____ DEPTH _____

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
	→ 211.81-222.0	PK contains 5-15% carb in form of strings, patches and alt 'leucoxenes'?	68837	203.27	204.13	0.86	<1			
			68838	204.13	204.57	0.44	1			
	211.81-212.23	30% vjg - steep to CA + patches	68839	204.57	205.01	0.44	<1			
	220.55-220.71	40% vjg - 50 to CA but patchy	68840	205.01	206.58	1.57	<1			
	222.08-222.26	50% vjg wk 2 - patchy	68841	211.81	212.23	0.42	<1			
	→ 226.87-230.43	Andesitic Hyaloclastite	68842	212.23	212.76	0.53	2			
	→ 230.43-233.90	up to 10% subhedral carb x-tals to 3mm	68843	212.76	214.30	1.64	<1			
			68844	214.30	215.75	1.45	2			
	229.27-236.35	5% vjg w wk 2 - steep to CA, Tr Py	68845	215.75	217.09	1.36	1			
	233.9 - EOH	VS ≠ (j) PK gradually becomes	68846	220.55	220.71	0.16	7			
		moderately schistose = sheared but still only	68847	220.71	222.08	1.37	<1			
		contains only Tr Py. 1 section moderately Δ.	68848	222.08	222.26	0.16	<1			
		↓ wk 2 S ₁ = 85° to CA.	68849	222.27	230.05	0.78	<1			
	233.90-234.76	10% vjg - most 90° but a 150° to CA	68850	230.05	230.59	0.54	<1			
	→ 236.81-238.43	mod Δ or ≠. 60% g + j	68851	233.96	234.76	0.80	9			
	237.30-237.68	M and chag pldg suggesting	68852	234.76	235.79	1.03	14			
		mod of fold. 1-2% Py, 60% g + j.	68853	235.79	236.81	1.02	1			

LOGGED BY

D.D.H. No. KNO-86-09 PAGE 10/

PROPERTY

LATITUDE

BEARING OF HOLE

STARTED

DEPARTURE

DIP OF HOLE

COMPLETED

ELEVATION

DIP TESTS

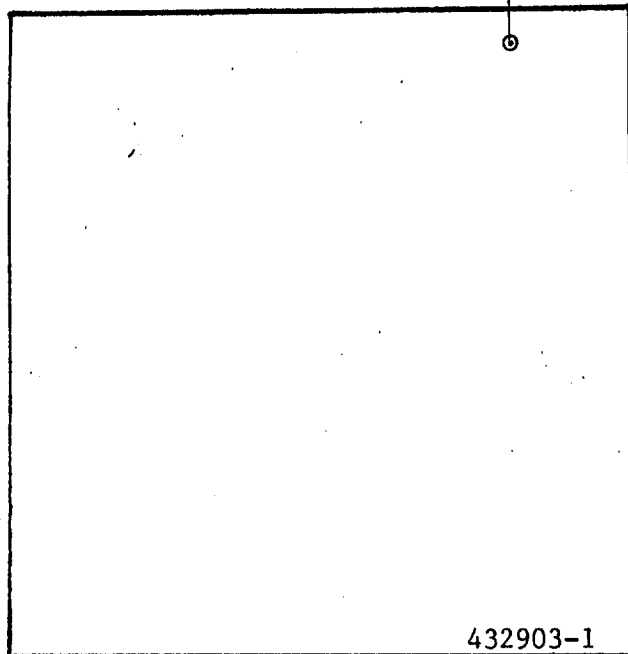
DEPTH

CLAIM No.

—DIRECTION AND DISTANCE FROM

NE. CLAIM POST

[illegible]



432903-1

HOLE LOCATION
KNO-86-10

1:5000

0 100
meters

DIAMOND DRILL RECORD

NAME OF PROPERTY Noyon Q-32
 HOLE NO. KNO-86-10 LENGTH 257.86 m = 846'
 LOCATION _____
 LATITUDE 2+50S DEPARTURE L 7+50E
 ELEVATION 0' AZIMUTH 360° DIP -50°
 STARTED Oct 21/86 FINISHED Oct 28/86

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
36.58	-50°				
121.92	-47°				
182.88	-39°				
254.81	-27.5°				

HOLE NO. _____ SHEET NO. 1/9

REMARKS _____

LOGGED BY R.H. Gray

Meters		DESCRIPTION Summary Log	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	36.58	Overburden									
36.58	42.97	Andesitic Hyaloclastite with Mafic Tuff V6Δ, V9β ((η))									
42.97	48.10	Interbedded Sediments and Mafic Tuffs S3, Gp(S4), V9β((η) Tr P ₁									
48.10	85.00	Interbedded Andesitic and Dacitic Hyaloclastites, Amygdaloidal Andesites with minor Massive Andesite V6Δ, V4Δ, V6 Ogc, V6 Tr P ₂ , P ₁									
		74.13-74.60 weakly brecciated									
		75.81-85.9 P ₂ , (P ₁) increases to 1-3% with massive concentrations									
85.00	163.71	Andesite V6((δ)) Tr P ₁									
163.71	250.20	Andesitic Hyaloclastite with Mafic Tuffs and minor Andesite - chloritic porphyroblasts, common to 210 m. Tr P ₁ . V6Δ, V9β, (V6)((η)) Oc, V9β (local biotite concentrations)									
		After 181.91 - glassy shards rare - more volc and bedded ash tuffs									
		226.38-254.59 'Amygdaloidal' sections ~20% of core ⇒ Scoria?? ⇒ Volcanic amygdules, inclusions OR clastic Sed primary clast									
		232.56-234.53 Sheared Hyaloclastite or Felsic Agglomerate (not pyroclastic) or Sheared Amygdaloidal									
		Andesite - similar rx seen in KNO-86-09									
250.20	257.86	Same as 232.56-234.53 but more strongly developed - up to 25% felsic lenses V10α/V6 O ≠ 1 (V6Δ ≠ 1)									
		251.43-251.80 several 1-7 cm wide bands of massive P ₂ + 1% P ₁ assoc with Vj									
	257.86	End of Hole									

DIAMOND DRILL RECORD

LOGGED BY R.H. Gray

PROPERTY Nayon

LATITUDE 21°50'S

BEARING OF HOLE 360°

STARTED Tues Oct 21/86

DEPARTURE L 71°50'E

DIP OF HOLE -50°

COMPLETED Tues Oct 28/86

ELEVATION

DIP TESTS 50°E 36.58m, 47°E 42.92 DEPTH

39°E 182.88m,

D.D.H. No. KND-86-10 PAGE 2/1

CLAIM No.

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au	ASSAY	
FROM	TO			FROM	TO				
0	36.58	Overburden					fab		
36.58	42.97	Andesitic Hyaloclastite with Mafic Tuff V6A, V9g (1a)) Green, fine-grained, weak local carbonatization and carb f.f. containing Tr. 2% lenticular qtz shards to ~1mm max dimension AK is well laminated - bedded. Sd: 60° to 60° CA No visible sulphides	6900	42.15	42.97	0.82	<1		
			6901	42.97	43.58	0.61	<1		
42.97	48.10	Interbedded Sediments and Mafic Tuffs S3, 6p (S4), V9g (1a) 50% greywacke with thin graphitic interbeds, - greywackes contain ~ 10% coarse feldspar clasts 20% graphite/argillaceous graphite, 30% mafic tuff. Mineralization includes Tr Py = strings 11' So 43.58-43.90 - Graphite / Argillaceous Graphite 47.55-48.10 - Central 20 cm nod S4 (Gp) and contains ~ 10% carb ff	6902	43.58	43.90	0.32	<1		
			6903	43.90	44.74	0.84	4		
			6904	44.74	45.23	0.49	21		
			6905	45.23	46.68	1.45	1		
			6906	46.68	47.55	0.87	<1		
			6907	47.55	48.10	0.55	<1		
48.10	85.00	Interbedded Andesitic Hyaloclastites, Dacitic Hyaloclastites, and Amygdaloidal Andesites with minor f.g. Massive Andesite							

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-10 PAGE 3/9

CLAIM No. _____



DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	An ppb	ASSAY			
FROM	TO			FROM	TO						
		Contacts between andesite and dacitic hyaloclastites									
		tend to be very sharp and parallel S_0 . Dacitic beds up									
		to 1.5 m thick. Contacts between V6 and amygdaloidal									
		andesites (V6g0) also appear sharp but are questionable.									
		Amygdaloidal sections contain 3-7% irregularly shaped									
		calcite crystals whereas hyaloclastite sections									
		contain 1-3% lenticular qtz clasts. Rock locally									
		silicified and variably carbonated - the majority									
		contains calc along bedding planes with irregularly									
		spaced sections being pervasively altered. Mineralization									
		is sparse and includes just trace of $Pb + Po$ with $Pb + Py$	69028	53.47	54.35	0.88	2				
		becoming more common between 78.5m + 85.0m - this	69029	54.35	54.66	0.88	2				
		largely being associated with calc veins, stringers and patches	69030	54.66	55.19	0.53	2				
		parallel to $S_0 = S_1 = 60^\circ$ to CA	69031	55.19	55.30	0.11	3				
		53.47-54.35 20% vjg Tr Po	69032	55.30	56.69	1.39	2				
		54.35-54.66 very strongly silicified and leached	69033	58.48	59.18	0.07	<1				
		55.19-55.30 75% vjg - 10-45° outcrop 80° to CA	69034	60.29	61.74	1.45	<1				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
 ELEVATION _____ DIP TESTS _____ DEPTH _____

D.D.H. No. KND-86-10 PAGE 4/9

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au ppb	ASSAY			
FROM	TO			FROM	TO						
		58.48 - 59.18 3 vj to 10 mm // So + ~ 25% carb - vj	69035	61.74	62.79	1.05	1				
		60.29 - 61.74 V4 A with Tr-17% Po - strings + scale // So	69036	62.79	63.87	1.08	2				
		68.93 - 70.60 V4 A / V6 g O Tr-17% Po	69037	67.53	68.93	1.40	2				
		72.25 - 73.11 10% vjg // So	69038	68.93	70.60	1.67	1				
→		74.13 - 74.60 1x 10 cm + ~ 40% nodular = breccia frags of vjg	69039	70.60	72.25	1.65	<1				
		@ 74.7 ~ - wk S ₂ developed @ 95° to CA	69040	72.25	73.11	0.86	1				
		77.06 - 77.89 V6 g O - str silification, 17% carb ff, wk micro-	69041	73.11	74.13	1.02	1				
		fracturing - 1 set shollow to CA, 1 set deep to CA	69042	74.13	74.60	0.47	<1				
→		78.51 - 85.0 Po ₂ (Py) increases to 1-3% with massive concentration	69043	76.27	77.36	1.09	<1				
		78.51 - 78.57 vjg with Tr Po	69044	77.36	77.89	0.53	<1				
		79.55 - 80.69 20% carb laminations to 5 mm. 27% Po	69045	77.89	78.51	0.62	<1				
		81.32 - 81.55 1x 7 cm vj - steep to CA + 1x 5 cm ^{+112 mm} ^{+115 mm} ^{mot // So}	69046	78.51	78.57	0.06	<1				
		Vj Po - 50% Po // So - 20% Po overall	69047	78.57	79.55	0.98	<1				
		83.84 - 83.98 5% f.d streaks of Po - scale?	69048	79.55	80.09	0.54	6				
		83.98 - 84.12 60% massive Po, 17% Py, also f.d but all	69049	80.09	81.32	1.23	<1				
		associated with carb	69050	81.32	81.55	0.23	3				
		84.12 - 85.00 7% f.d. Po ^{+Py} streaks + scale - most // So but also	69051	81.55	83.21	1.66	1				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-10 PAGE 5/9

CLAIM No. _____



DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Ag ppb	ASSAY			
FROM	TO			FROM	TO						
		in vj 20 2 mm under crystalline core x-cutting Ss	69052	83.21	83.89	0.18	<1				
		88.63-88.78 10cm vj shallow to CA w Tr (p+P) -	69053	83.89	83.98	0.09	<1				
		same clst.	69054	83.98	84.12	0.14	1				
			69055	84.12	85.00	0.88	<1				
85.00	163.71	Andesite V6 (15)	69056	85.00	86.38	1.38	<1				
		fine to medium grained, massive to weakly schistose	69057	88.63	88.78	0.15	<1				
		weakly schistose dk containing Tr, Py and vj	69058	93.02	93.26	0.24	<1				
		scattered vj + vfj - some with minor calcification + sp	69059	93.26	94.21	0.95	<1				
		and some with minor epidote	69060	101.07	102.3	1.23	<1				
		93.02-93.26 5% vj, 1 to 3cm - scattered angular to CA	69061	111.42	112.40	0.98	3				
		112.40-112.56 50% vj with lensoidal patches @ 0° to CA	69062	112.40	112.56	0.16	2				
		116.35-117.41 3% vj + vq - patches to 45° to CA (various)	69063	112.56	113.77	1.21	2				
		Tr Py	69064	113.77	114.68	0.91	2				
		124.74-124.72 mod silicified, central 15cm vj sk & l. l. l. vj	69065	116.35	117.41	1.06	2				
		rubious ss cm long vj @ 5° to CA 1/2 cm t.c.w	69066	123.75	124.74	0.99	2				
		containing Tr Py	69067	124.14	124.72	0.58	<1				
		127.49-128.58 2-3% scattered vj + vq - most steep to CA	69068	127.49	128.58	1.09	2				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KND-86-10 PAGE 6/9

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Am	ASSAY			
FROM	TO			FROM	TO						
		132.89-133.19 cental/Scm = vjf with mod sericitization	69069	132.02	132.89	0.87	5				
		138.5-139.05 25% vq(j) - steep to CA, weakly brecciated	69070	132.89	133.19	0.03	41				
		146.15-146.20 vqjf vwk 2	69071	135.59	136.46	0.87	3				
		148.23-148.51 30% j.p.c.f. w 3% asso. p. So=S ₁ =SS	69072	138.5	139.05	0.55	41				
		→ 152.4-160.51 possible Greywacke S3	69073	139.05	139.72	0.72	1				
		160.85-162.58 1% vj w p. X-cutting S ₁ + 2% v f(j)	69074	145.47	146.15	0.68	1				
			69075	146.15	146.20	0.05	41				
163.71	250.2	Andesitic Hyaloclastite with Mafic Tuffs and minor Andesite	69076	146.2	147.31	1.11	5				
		chloritic porphyroblasts? common V6A, V6, (V6) ((n)) oc vqj	69077	147.31	148.23	0.92	3				
		Finegrained Tr-5% shards + amygdulae to 2mm	69078	148.23	148.51	0.28	41				
		plus localized concentrations of chloritic porphyroblasts	69079	160.85	162.58	1.76	41				
		qtz shards + primary amphiboles	69080	162.58	163.71	1.13	41				
		subaqueous extrusion	69081	163.71	165.12	1.41	41				
			69082	165.12	165.39	0.27	41				
		Variable in greens, well laminated (So=S ₁ =70° to CA)	69083	165.39	165.86	0.47	1				
		weakly schistose, of hardness H=4 1/2 - 5, weakly	69084	165.86	167.25	1.39	41				
		carbonatized rk → carbonatized bands // So	69085	172.19	173.05	0.86	41				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____ BEARING OF HOLE _____ STARTED _____

DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____

ELEVATION _____ DIP TESTS _____ DEPTH _____

D.D.H. No. KIND-86-10 PAGE 7/9

CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au	ASSAY			
FROM	TO			FROM	TO						
		RK cut by ~2% qtz and qtz-carb veins from	69086	173.05	174.14	1.09	21				
		1mm - 10cm - most are steep to CA paralleling S ₀ , S ₁	69087	174.14	174.31	0.17	21				
		Local biotite concentrations. Mineralization includes local	69088	174.31	175.82	1.51	21				
		ly traces along fractures near S ₀ to CA = tensional	69089	175.82	176.10	0.34	21				
		fractures near perpendicular to bedding	69090	176.10	176.42	0.32	21				
		165.12 - 165.39 80% vjg // S ₀ , S ₁	69091	176.42	177.31	0.89	21				
		174.14 - 174.31 central 10cm vjg // S ₀	69092	177.31	177.44	0.13	21				
		177.31 - 177.44 weakly brecciated vjg	69093	177.44	177.84	0.40	21				
		179.88 - 180.05 2 x 5mm wide pink-orange vjg x-cutting S ₀ , S ₁	69094	179.88	180.05	0.17	2				
		→ After 181.91m - glassy (qtz) shards rare - More volcanic + bedded ash less hyaloclastic	69095	180.05	181.40	1.35	21				
		186.50 - 186.76 5% biotite	69096	181.40	181.68	0.28	21				
		188.82 - 189.10 1 x 2mm fracture @ S ₀ to CA w j, ly f.f.	69097	181.68	181.91	0.23	21				
			69098	181.91	182.98	1.07	21				
			69099	182.98	184.02	1.04	21				
			69100	184.02	184.45	0.43	21				
			69101	186.50	186.76	0.26	21				
			69102	186.76	187.50	0.74	21				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-10 PAGE 2/9

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au		ASSAY	
FROM	TO			FROM	TO		ppb			
		201.17-201.89 5% biotite	69103	187.50	188.82	1.32	<1			
		- e 208.45m poorly developed S ₂ e 40° to CA - 0° rotation	69104	188.82	189.10	0.28	<1			
		note occ fracture in pinkish // to this direction	69105	193.85	195.02	1.17	<1			
		217.18-217.74 Mafic dike with 10% grey gk veining	69106	195.02	196.19	1.15	<1			
		220.05-220.26 1.5mm orange v. e 30° to CA x-cutting S ₂	69107	201.17	201.89	0.72	<1			
		→ 226.38-229.59 Anhydrotoidal section - 20% of core	69108	203.86	204.70	1.00	<1			
		These sections commonly contain ~ 30% subround	69109	208.16	209.56	1.40	<1			
		to lenticular qtz + gtz with minor carb and hard	69110	209.56	210.37	0.81	<1			
		water inclusions of amygdular in size ~ 1/2 mm contacts to these	69111	216.86	217.18	0.32	<1			
		sections are sharp bigradational but generally	69112	217.18	217.74	0.56	<1			
		relatively sharp Amygduloidal Nuclei, in gtz	69113	217.74	217.89	0.15	<1			
		Tuff & Clastic Seds S ₁ = S ₂ = 80° to CA (e 253.2m)	69114	219.61	220.05	0.44	<1			
		Biotite Traces	69115	220.05	220.26	0.21	<1			
		→ 232.56-234.53 ^{seen} RK contains ~ 10% large, lenticular	69116	220.26	220.53	0.27	2			
		to 1cm wide bands of semi-hard (H ~ 5 1/2) with carb	69117	225.71	226.38	0.67	<1			
		on edges containing gtz + gtz carb inclusions → appear	69118	231.32	231.67	0.35	<1			
		to be false clasts or just more clay rich lenses =>	69119	231.67	232.10	0.43	<1			

note

Point not visible or visible

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-10 PAGE 9/9

CLAIM No. _____

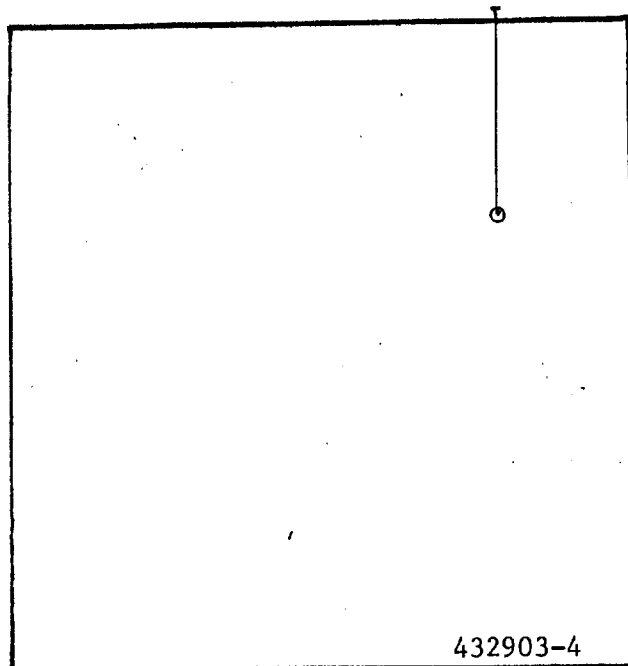
DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO		PPb	
		In any case, this appears to be a sed (clumped?)	69120	232.10	233.48	1.38	<1	
		- Similar Rk type found in #9	69121	233.48	234.53	1.05	<1	
		* Get occ lens like this from 232.56 - 250.20	69122	239.57	240.21	0.64	<1	
		240.21 - 240.30 30% vgf. @ 70° to CA with small	69123	240.21	240.30	0.09	<1	
		tensioned fractures @ shallow angle to CA	69124	243.07	243.74	0.67	<1	
		243.74 - 243.87 30% vgf - deep to CA	69125	243.74	243.87	0.13	<1	
250.2	257.86	Amigdaloidal Andesite, hyperbucula, elastic section felsic Apparent to but Not A Pyroclastic						
		Similar to 232.56 - 234.53 but interval contains up to	69126	250.2	251.43	1.41	<1	
		26% 'lenses'. Lenses are equivalent to sections described	69127	251.43	251.51	0.08	1	
		from 226.38 - 254.59 m	69128	251.51	251.73	0.22	<1	
		251.43 - 251.51 24cm bands of Po // Si, So + 1% Pyroxenes - associated	69129	251.73	251.80	0.07	4	
		251.51 - 251.73 Amigdaloidal Andesite ?? with 35% Qtz amygdules	69130	251.80	253.21	1.41	<1	
		- some containing Po + Py but sulphides also in matrix	69131	253.21	254.22	1.01	<1	
		251.73 - 251.80 65% massive Po associated = vj, 1% Pyroxenes	69132	254.22	254.52	0.30	<1	
		vj parallel to but causing host wraparound	69133	254.52	255.33	0.81	<1	
		254.22 - 254.52 Silicified 'Amigdaloidal' containing 1x 3cm vj // So	69134	255.33	257.86	2.53	<1	

257.86 END OF HOLE

1-2-86



432903-4

HOLE LOCATION
KNO-86-11

1:5000

0 meters 100

DIAMOND DRILL RECORD

LOGGED BY B.H. Gray

PROPERTY Noyon Q-32

LATITUDE 31°55'

BEARING OF HOLE 360°

STARTED Oct 29/86

DEPARTURE L 117°25'E

DIP OF HOLE -50°

COMPLETED Oct 31/86

ELEVATION 0'

DIP TESTS 46° @ 39.62m, 35½° @ 93.27m DEPTH 199.9m = 656'
34½° @ 152.4m, 30° @ 199.94m ← tube broken, guess estimate

D.D.H. No. KNO-86-11 PAGE 1/12

CLAIM No. _____



DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
0	39.62	Overburden								
39.62	44.93	Qtz Diorite / Coarse Andesite 2Dg / (V6) Tr Py								
44.93	48.75	Argillites S4; 15% carbonate Tr Py + Po								
		46.57-47.02 slightly graphitic 10% Py + Po								
48.75	50.36	Andesitic Hyaloclastite V6 Δ / (V9g)								
50.36	56.17	Andesite V6								
		51.54-53.27 moderately schistose V6 (H)								
56.17	56.98	Argillaceous Sediments, Locally Graphitic 10% carbonate 2% Po + Tr Py S4j								
56.98	66.08	Bedded Mafic Tuffs or Coarse Argillite and Andesitic Hyaloclastite. Tr Py V9g / S4, V6 Δ (H)								
		63.67-63.98 Broken RK = WK fault or water seal								
66.08	74.09	Argillaceous and Graphitic Sediments - locally brecciated S4, Gp (S4) ((Δ)) Tr Py with conc: to 5% 'Tops' South								
		70.38-71.05 brecciated								
		71.77-72.1 Graphite								
74.09	85.25	Coarse Argillite or Mafic Tuff and Andesitic Hyaloclastite S4 / V9g, (V6 Δ) ((Δ)) Tr-15% V9g								
		82.38-85.25 Andesitic Hyaloclastite V6 Δ								
85.25	110.20	Amygdaloidal Andesite V6 Δg ((Δ)) Tr haematite, Py, tourmaline 'Tops' South								
		92.44-99.36 weakly fractured and variably silicified ((Δ)) ((Δ))								

LOGGED BY _____

D.D.H. No. KIN-86-11 PAGE 2/12

CLAIM No. _____

CLAIM No. _____
DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST

[illegible]

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY Nayan Q-32
 ALTITUDE 3155 S BEARING OF HOLE 360° STARTED Oct 29/86
 DEPARTURE L 1125 E DIP OF HOLE -50° COMPLETED Oct 31/86
 ELEVATION 0' DIP TESTS _____ DEPTH _____

D.D.H. No. KND-86-11 PAGE 3/12



CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO		pph			
0	39.62	Overburden								
39.62	44.93	Qtz Diorite / Coarse Grained Andesite 2Dg / (V6) 35% felsics, 65% mafics, medium to coarse grained moderately schistose. It is containing 15% blue qtz phenos (2/50's) and Tr aggregates of Py. Minor carbonate fracture fill. S ₁ = 55° to CA Lower contact gradational and consists of f.g. margin containing ~ 30% mottled vjt - S, wrapping around	68861	41.78	43.06	1.28	<1			
			68862	43.95	44.76	0.81	<1			
			68863	44.76	44.93	0.16	<1			
44.93	48.75	Argillites S4 Fine grained green to grey, well laminated S ₀ = 65° to CA It containing ~ 15% carbonate rich beds. Laminations = 6006 avg ~ 5mm thick. Tr Py + Po along bedding planes - often associated with j beds 46.57-47.02 slightly graphitic - 1% Py + Po	68864	44.93	46.57	1.64	<1			
			68865	46.57	47.02	0.45	<1			
			68866	47.02	48.75	1.73	<1			

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____ BEARING OF HOLE _____

STARTED _____

DEPARTURE _____ DIP OF HOLE _____

COMPLETED _____

ELEVATION _____ DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-11 PAGE 5/12

CLAIM No. _____



DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO		Ag	ppb		
		Fine grained, moderately laminated, green and grey moderately carbonatized rk - variable $\Rightarrow$ strong η beds & wk η beds. Mineralization includes Tr scale + aggregate cubes of Py - lower content gradational								
		$\rightarrow$ 63.67-63.98 : Pitted, weathered broken rk (carb weathered) $\Rightarrow$ wk fault	68869	61.82	63.67	1.85	2			
			68870	63.67	63.98	0.31	2			
			68871	63.98	64.53	0.55	<1			
66.08	74.09	Argillaceous and Graphitic Sediments - locally Brecciated S4, Gp(S4) (H Δ)								
		All fine grained, argillaceous sections are well laminated, S ₀ = 65° to CA and comprises ~ 70% of interval. RK is locally quite rusty. Mineralization includes Tr Py with concentrations up to 5%. 'Tops' S indications?	68872	66.08	67.18	1.10	6			
			68873	67.18	67.71	0.53	<1			
			68874	67.71	68.08	0.38	1			
			68875	68.08	69.1	1.02	30			
		67.71-68.08 Gp(S4) with 5% Py	68876	69.1	69.36	0.26	3			
		$\rightarrow$ 68.08-69.1 S4(Gp)/S3? - interval contains ~ 20% irregularly shaped felds clasts (grains) avg size ~ 2mm - only ~ 2% at top but increasing to 20% going downhole = Tops S	68877	69.36	70.38	1.02	2			
			68878	70.38	71.05	0.67	2			
			68879	71.05	71.77	0.72	2			
		$\rightarrow$ 70.38-71.05 75% argillaceous fragments to 10 cm in argillaceous graphitic matrix - brecciated 1x5cm broken up								

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KHO-86-11 PAGE 6/12

CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST _____

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au gpb	ASSAY			
FROM	TO			FROM	TO						
		71.77-72.1 Graphite	68880	71.77	72.1	0.33	<1				
			68881	72.1	74.09	1.99	<1				
74.09	85.25	Coarse Argillite or Mafic Tuff and Andesitic Hyaloclastite -	68882	74.09	74.48	0.39	<1				
		S4 coarse / V9, (16A) - similar to 56.98-66.08 but	68883	74.48	75.31	0.83	3				
		less well laminated and slightly brecciated. No v/s	68884	75.31	76.70	1.39	5				
		Upper + Lower contacts questionable 2-10% j.f.f.	68885	76.70	77.89	1.19	<1				
		74.09-74.98 10% scattered vlg	68886	77.89	78.39	0.50	<1				
		77.89-78.39 10% 19 ff @ shallow + steep ang. Cu to CA	68887	78.39	78.62	0.23	<1				
		minor pldng	68888	80.83	81.69	0.86	<1				
		78.39-78.62 Arg. Mucous graphite	68889	81.69	82.17	0.48	<1				
		@ 81.08 weak S ₂ @ 60° to CA after 90° cw rotation	68890	82.17	82.38	0.21	2				
		from S. → fracture shear plane									
		81.69-82.17 moderately brecciated but little movement of									
		fragments.									
		82.17-82.38 Last 15 cm = vlg stockwork									
→		82.38-85.25 Andesitic Hyaloclastite									
		82.38-83.47 ~ 15% vlg, locally brecciated	68891	82.38	83.47	1.09	<1				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-11 PAGE 7/12

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au ppb	ASSAY			
FROM	TO			FROM	TO						
85.25	110.20	Amygdaloidal Andesite	68892	85.25	85.47	0.22	<1				
		Pale medium green, very fine grained, massive to	68893	85.47	86.46	0.99	1				
		weakly schistose, weakly, locally strongly silicified	68894	88.35	90.04	1.69	1				
		1% containing ~5% irregularly shaped Qtz amygdulites	68895	90.04	90.56	0.52	3				
		locally fractured in siliceous matrix ± hematite	68896	90.56	91.26	0.70	<1				
		+ size decrease in last 2m approaching lower	68897	91.26	92.44	1.18	<1				
		contact lower contact gradual. Tr hematite,	68898	92.44	93.27	0.81	1				
		Tr Py, Tr tourmaline	68899	93.27	95.11	1.84	2				
		85.25-85.47 strongly silicified, banded Albite? w/ fracturing - possible xenolith									
		85.47-86.46 ~10% as above - veins w/ S ₂ e 350 to CA	68900	95.11	96.51	1.40	<1				
		after 0° rotation (fracture plane?)	68901	96.51	97.18	0.68	<1				
		90.04-90.56 20% vjg - scattered, Tr hematite mod fracturing	68902	97.18	97.36	0.18	13				
		→ 92.44 - 97.36 weakly fractured and variably silicified	68903	97.36	98.44	1.08	<1				
		97.18-97.36 central 8cm vjg w hematite Py	68904	98.44	99.36	0.92	<1				
		98.44-99.36 strongly, 25% Qtz, Tr Cp Tr Py	68905	99.36	100.7	1.32	<1				
		100.7-100.85 3x1-2cm vjg e 60° to CA	68906	100.7	100.85	0.15	22				
			68907	100.85	101.66	0.81	<1				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-11 PAGE 8/12

CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST _____

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au ppb	ASSAY			
FROM	TO			FROM	TO						
		101.66 - 102.25 20% vqj + patches - mostly steep to CA	68908	101.66	102.25	0.59	21				
		109.11 - 110.2 Tr Po - bands	68909	109.11	110.2	1.09	1				
			68910	110.2	111.70	1.50	21				
110.2	113.25	Graphitic Argillite S4 (gp) Gradational upper, sharp lower contact ~2% scattered glz-carb fracture fill. Tr Po streaks parallel to S ₀ = 80° to CA S ₀ folded to 0° to CA from 110.2 - 110.25	68911	111.70	113.25	1.55	12				
113.25	130.58	Andesite, carbonatized V6 of ((2)) 'Tops' S? Fine grained slightly greyish green massive moderately to strongly pervasively carbonatized rK containing Py traces as fine disseminations and cubes to 2mm. Top 1 1/4 m has brown hue and is more sericitized → may represent top of sequence - this 'regolithic' unit being more altered than that below Sections in bottom 3m contain up to 5% coarse	68912	113.25	114.5	1.25	1				
			68913	114.5	114.86	0.36	2				
			68914	114.86	114.93	0.07	30				
			68915	114.93	115.79	0.86	21				
			68916	121.87	123.0	1.13	1				

LOGGED BY _____

D.D.H. No. KNO-86-11 PAGE 9/12

CLAIM No. _____

—DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	<i>L_v</i> ppb	ASSAY		
FROM	TO			FROM	TO					
		carbonate crystals = alt ^d feldspars or leucoxenes? - note small relict cores in some of these. Lower contact questionable	68917 68918	124.03	124.66	0.63 1.09	<1 <1			
		114.86 - 114.93 7 cm VgW @ ~ 85° to CA - 25% W								
		114.93 - 115.79 3 x 1 cm Vg @ 70° to CA, Tr f.d. Py. - V6								
		124.03 - 124.66 1 x 5 cm + 1 x 12 cm Vg - 1st @ 45 2nd @ 90° to CA								
130.58	134.85	Diorite 2D ((n)) Upper & lower contacts questionable. Medium to coarse grained, wk → mod carb ⁿ (some felds?) can turny in 35% gn/subhedral fibrous crystals. Truly columnar?	68919	130.58	132.08	1.50	<1			
134.85	138.0	Andesite → Diorite V6/(2 D) (n) Fine to medium grained, weakly schistose S _i = 75° to CA Rt contains ~ 15% carb occurring as network about mafics and as alt ⁿ of other minerals (felds?)	68920	135.94	137.35	1.41	3			

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-11 PAGE 10/12

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au pph	ASSAY			
FROM	TO			FROM	TO						
138.0	141.40	Andesite v6 r Po, Py	68921	138.59	139.31	0.72	2				
		Fine grained, medium green, moderate to strongly	68922	139.31	139.48	0.17	2				
		pervasively carbonated, weakly schistose containing	68923	139.48	139.74	0.26	1				
		Tr-12 Po + Py with concentrations up to 10% occurring	68924	139.74	140.18	0.44	1				
		in streaks along schistosity planes and as coarse aggr.	68925	140.18	140.41	0.23	2				
		associated with vgl and as finely disseminated clots	68926	140.41	141.39	0.98	3				
			68927	141.39	141.91	0.52	4				
		139.31 - 139.48 70% vgl with 2% Py in host - vgl CA	68928	141.91	142.66	0.75	1				
		139.48 - 139.74 3% Po, (Py)	68929	142.66	143.7	1.04	2				
		139.74 - 140.18 ~10% Po + Py - Py as aggr to 1cm 5% vgl CA	68930	143.7	144.52	0.82	1				
		140.18 - 140.41 ~10% Po + Py, 15% vgl - random, 1K 10cm pkts									
		140.41 - 143.70 ~3% Po + Py									
149.40	150.55	Argillite and Argillaceous Graphite S4, Gp(S4) ((2)) 'Tops' A									
		Fine grained, mod laminated So = 60° to CA, wkt to	68931	149.40	149.85	0.45	49				
		moderately carbonated	68932	149.85	150.55	0.70	34				
		149.85 - 150.55 Argillaceous Graphite with 4% Py streaks									
		- Top contact gradational, lower sharp = 'Tops' N?									

(S4) Gp(S4)

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

ATITUDE _____

DEPARTURE _____

ELEVATION _____

BEARING OF HOLE _____

DIP OF HOLE _____

DIP TESTS _____

STARTED _____

COMPLETED _____

DEPTH _____

D.D.H. No. KNO-86-11 PAGE 11/12

CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
150.55	152.75	Andesite V6 (n) similar to top 114 m of 113.25-130.58. Massive, slight brown hue. Moderately carbonatized No v/s								
152.73	155.79	Diorite or Andesite 2D/V6 Medium to coarse grained containing anhedral, occasionally subhedral crystal clots Rk contains ~ 20-3% carb fracture fill No visible sulphides								
155.79	172.52	Andesite V6 (n) Green, fine to medium grained, weakly schistose $S_1 = 65^\circ$ ← folded to 0° to CA from 156.96 - 157.1 Variably carbonatized - strong pervasive to wk fracture fill, locally weakly silicified. Intercal contains ~ 2% v/s rugj - most at steep angles to CA. Mineralization includes localized traces of Py 161.87-162.07 17cm white v/s @ 400° to CA 165.14-165.45 50% v/s 1x10cm + others - 10cm @ 45° to CA								
			68933	160.7	161.87	1.17	10			
			68934	161.87	162.07	0.20	2			
			68935	165.14	165.45	0.31	1			
			68936	165.45	166.9	1.45	21			

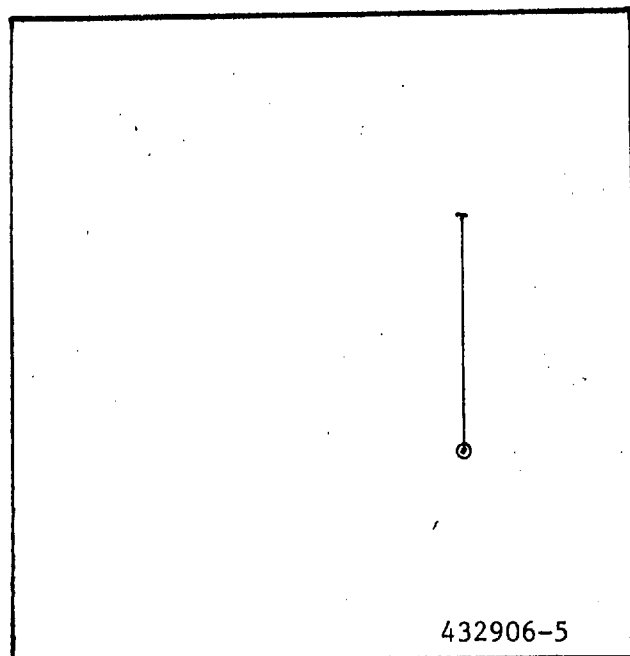
B. H. Gray

$$199.9 \text{ m} = 656'$$

NE. CLAIM POST



FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	K _{sp}	ASSAY			
FROM	TO			FROM	TO						
		166.9-167.1 60% brecciated vqj @ 40° to CA	68937	166.9	167.1	0.20	1				
172.52	174.30	(Sintered) Andesite or Andesitic Hyaloclastite V6(H)/V6A fine grained, ~5% carb fracture fill very weakly brecciated mod laminated? S ₂ -80° to CA. Mineralization includes 1-2% Py in coarse cubes, aggs + vq selvage	68938	172.52	173.16	0.64	2				
		173.16-174.30 37% Py 27% vq - saw wrapping around	68939	173.16	174.30	1.14	1				
174.30	199.9	Andesitic Hyaloclastite and Andesite V6Δ, (V6)(H) fine grained, moderately carbonized, wk-mod laminated S ₀ -70° to CA T ₁ -37% k shards. No visible sulfides (local traces)									
		177.65-180.38 30 cm long fault @ 5° to CA with j ff + Tr Py	68940	177.65	180.38	0.73	L1				
		196.43-197.54 Tr Py in host + 3x1cm + 1x 3cm vq @ 80°	68941	196.43	197.54	1.11	1				
			68942	198.93	199.9	0.97	L2				
199.9		End of HRE									



HOLE LOCATION
KNO-86-12

1:5000

0 100
meters

DIAMOND DRILL RECORD

NAME OF PROPERTY NAYON Q-32
 HOLE NO. KNO-86-12 LENGTH 230.42 m = 756'
 LOCATION _____
 LATITUDE 22+50 E DEPARTURE 8+85 S
 ELEVATION 0' AZIMUTH 360° DIP -50°
 STARTED Nov 2/86 FINISHED Nov /86

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
48.77m	-53.5°				
121.92m	-47.5°				
152.4m	-40°				
228.42	-34°				

HOLE NO. _____ SHEET NO. 1

REMARKS _____

LOGGED BY B. H. Gray

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON
					FROM	TO	TOTAL			
0	48.77	Overburden								
48.77	71.40	Mafic (Andesitic) Tuff V9 B n		Tr. Py						
71.40	77.70	Andesite with Interflow Sediments V6 ((S4, (Gp), Gp) (▲))		Tr 3% Py						
77.70	78.62	Graphitic Argillite S4 (Gp) 2% Py		2% Py						
78.62	82.05	Feldspar Crystal Tuff V9 BF □ / V6 F □ / (S3)?								
		81.61 - 82.04 S4 (Gp) + Gp (S4) with 5% Primary Py		5% Py						
82.05	92.87	Mafic Tuff V9 B (n)								
92.87	99.87	Hyaloclastite and Mafic Tuff V6 Δ, V9 B (n)								
99.87	110.74	Sheared and Folded Andesite V6 (≠) (▲) major fold system		1% Py Tr CP						
110.74	164.43	Coarse Andesite/Diorite V6 (2D) trace Haematite								
		120.4 - 143.0 more dioritic than Andesitic								
		143.39 - 145.29 Mafic to Ultramafic Intrusive		Tr Py, Po						
		152.86 - 154.0 weak localized zones of epidotization								
164.43	167.62	Fractured Mafic Tuff and/or Greywacke V9 B / (S3) (▲)		1-2% Py						
167.62	173.06	Interbedded Argillaceous Graphite and minor mafic tuff								
		Gp (S4), (V9 B) 3-7% Py w massive conc								
173.06	183.77	Andesite V6		< Tr Po Tr Py						
183.77	199.14	Interbedded Mafic Tuffs, Argillites + Graphite V9 B, S4 (Gp)		Tr 3% Py						
		Gp (S4)								
199.14	230.42	Andesite V6 Tr haematite		Tr Py						
	230.42	End of Hole								

DIAMOND DRILL RECORD

NAME OF PROPERTY NOYON R-37
 HOLE NO. KNO-86-17 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 360° DIP -50°
 STARTED Nov 2 /86 FINISHED Nov 4

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	Au ppb	%	OZ/TON
0	48.77	Overburden								
48.77	71.40	Mafic (Andesitic) Tuff V9 B n Green, fine grained, moderately laminated So=45° Beds in order of 1cm - 15 cm thick. Rock contains 2% carbonate rich beds and veins. Mineralization includes traces of pyrite. Rk mod - strongly carbonatized 54.27-55.08 5% carbonate rich beds + 1x1cm vsg @ 10° to CA	68651 68652 68653		54.27 66.41 66.83	55.08 66.83 67.83	0.81 0.42 1.00	3 41 3		
71.40	77.70	ANDESITE WITH INTERFLOW SEDIMENTS V6 (CSY (Gp)), Gp (▲) Green, fine grained, massive to wkly schistose, wk to moderately carbonatized. Weakly brecciated. Localized concentrations of qtz carb veining and sulphides Seds ~ 10% of interval 73.64-73.88 Grainy, 5% vsg Tr fd Py 73.88-74.04 munged up graphite 3% Py Streaks 74.04-74.12 weakly Δ volc similar to 73.04-73.88 but w haem in vsg 74.12-74.75 weakly ▲, grainy fracturing near 0° to CA 75.20-75.39 wkly ▲ 1x10cm of Gp (S4) with 3% streak Py @ 75.86 wk S2 @ 65° to opposite CA after 45° cw rotation	68654 68655 68656 68657 68658 68659 68660 68661 68662 68663 68664 68665 68666		71.4 72.86 73.64 73.88 74.04 74.12 74.75 75.2 75.39 75.39 76.36 77.05 77.05 77.29 77.70	72.8 73.64 73.88 74.04 74.12 74.75 75.2 75.39 76.36 77.05 77.24 77.70 78.62	1.46 0.78 0.24 0.16 0.08 0.63 0.45 0.19 0.97 0.69 0.24 0.41 0.92	41 8 1 42 3 41 41 41 41 4 41 41		

DIAMOND DRILL RECORD

NAME OF PROPERTY NOYON Q-32
HOLE NO. KNO-86-12 LENGTH _____
LOCATION _____
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH _____ DIP _____
STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au ppb	%	oz/TON	oz/TON
					FROM	TO	TOTAL			
71.40	77.70	cont. S ₁ @ 70° to opposite CA 76.36 - 77.05 mod ▲ 2% vqj some rusty @ 45°-90° to CA Si folded to 0° to CA, Tr fd Py 77.05 - 77.29 Graphite 2% bands of Py								
77.70	78.62	GRAPHITIC ARGILLITE S ₄ (Gp) grey, fine grained So = 70° to CA 2% bands of Py. Lower contact gradational ie felds phenos small + not abundant but definitely present								
78.62	82.05	FELDSPAR CRYSTAL TUFF V9/B f □ / (V6 f □) / S3?? Fine grained, pale green grading in grey, wkly laminated rk containing Tr 3% carb fracture of + primary bedding + 5% an/subhedral feldspar, (plag) crystals from 1-2 mm in size 81.61 - 82.05 20% bands of S ₄ (Gp) + Gp(S ₄) w 5% primary Py	68667 68668		81.08 81.61	81.61 82.05	0.56 0.44	<1 <1		
82.05	92.84	Mafic Tuff V9/B (n) Ash-fine grained, moderately to well laminated So = 70° beds in order of cm's thick	68669 68670		82.05 85.81	83.26 87.33	1.21 1.52	<1 <1		

DIAMOND DRILL RECORD

NAME OF PROPERTY NOYON Q-32
 HOLE NO. KNO-86-12 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 4
 REMARKS _____

LOGGED BY B. H. Gray

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		ppb	%	oz/TON	oz/TON	
					FROM	TO	TOTAL				
82.05	92.87	cont. Rk is moderately carbonatized locally and contains up to 5% carbonate rich beds (i p.c.f?) Mineralization is v. sparse * Note: occasional f or clast?									
92.87	99.87	HYALOCLASTITE AND MAFIC TUFF V6A, V9B (n) Fine grained, wk to moderately laminated, mod carbonatized - bedding planes Tr-3% gtz shards So = 55° to CA. 97.58-99.87 - Rk is well laminated and ~50% has a pinkish hue (haematite staining) Note traces of Py & possible Tr-1% of biotite and galena	68671		96.81	97.58	< 1				
			68672		97.58	98.52	2				
			68673		98.52	99.87	2				
99.87	110.74	SHEARED & FOLDED ANDESITE V6 (≠) (▲) fine grained, green, good schistosity developed from 0-55° to CA - rk is moderately folded but only weakly brecciated Tr Py + Cp w local concs 100.48-100.61 Fold nose S ₁ = 0° to CA w 3% Py conc 104.22-104.73 Tuff? - rk grainier + wkly laminated and contains ~5% f.d. clots + primary Py beds to 3mm 104.73-105.05 Mod fractured w 3% Py along fractures - most of which = 0° to CA Tr Po	68674		99.87	100.48	3				
			68675		100.48	100.61	81				
			68676		100.61	101.75	7				
			68677		101.75	103.15	9				
			68678		103.15	104.22	5				
			68679		104.22	104.73	12				
			68680		104.73	105.05	86				
			68681		105.05	105.68	2				
			68682		105.68	106.45	4				

DIAMOND DRILL RECORD

NAME OF PROPERTY NOYON Q-32
 HOLE NO. KNO-86-12 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 5

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	#b	%	OZ/TON
99.87	110.74	106.95 - 108.17 mod. fractured + folded P ₆ Py & Tr Cp S ₁ near 0° to CA	68683		106.95	108.17	1.22	16		
cont.		108.17 - 108.51 S ₁ near 0°. 3% Py, 1% Cp f.d. and assoc w vjg	68684		108.17	108.51	0.41	36		
		108.51 - 110.74 Rk. mod. schistose but not folded	68685		108.51	109.57	1.06	14		
		109.57 - 109.86 3% vjg f. w Tr haem. 45° to CA + patchy Tr Py	68686		109.57	109.86	0.29	1		
			68687		109.86	110.74	0.88	1		
110.74	164.43	COARSE ANDESITE / DIORITE V6/(2D)								
		more likely a coarse grained Andesite (local intrusive texture)	68688		110.74	112.13	1.39	<1		
		Rk contains ~3% unaltered leucoxenes (?) Mineralization	68689		115.27	116.30	1.03	<1		
		include Tr haematite Upper contact relatively sharp	68690		116.30	116.89	0.59	<1		
		Lower is much more gradational	68691		116.89	117.47	0.58	<1		
		116.30 - 116.89 vjg f. haem. @ 0° to C.A. ~80 cm long 1/16 in	68692		121.08	122.57	1.49	<1		
		116.89 - 117.47 10% vjg haem 30-45° to CA.	68693		124.30	124.85	0.55	<1		
		120.4 - 143.0 Rk more dioritic than volcanic	68694		124.85	127.75	2.90	<1		
		124.3 - 124.85 wkly sheared & 2% P ₆ + Py sulphides as f. frag	68695		125.75	126.48	0.73	<1		
		124.85 - 125.75 5% vjg haem f. g @ 45° to CA but x-cutting	68696		133.02	134.26	1.24	<1		
		S ₁	68697		143.39	144.90	1.51	<1		
		143.39 - 145.29 Mafic → Ultramafic Intrusive, wkly silicified	68698		144.9	145.29	0.39	<1		
		144.9 - 145.29 1x10cm + 1x5cm vjg(r) w Tr - 1% Py	68699		149.0	150.07	1.07	<1		
		149.09 - 150.07 minor folding to 0° to CA.	68700		150.07	150.20	0.13	<1		
		150.07 - 164.43 leucoxenes? (very possibly not leucoxene	68701		150.20	151.18	0.98	<1		
		but an alt ⁿ mineral) stretched + up to 10% of core.	68702		161.89	163.37	1.48	80		
		152.86 - 154.0 weak zones of epidatization	68703		163.37	164.43	1.06	11		

DIAMOND DRILL RECORD

NAME OF PROPERTY NOYON Q-32
 HOLE NO. KNO-46-12 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 6

REMARKS _____

LOGGED BY B. H. Gray

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au ppb	%	OZ/TON
					FROM	TO	TOTAL			
110.74	164.43	cont. 150.07 - 150.20 75% vqj @ 55° to CA // S ₁ Tr. ep 163.37 - 164.43 25% vqj most @ 60° to CA								
164.43	167.62	FRACTURED MAFIC TUFF AND/OR GREYWACKE V9B/(S3) (6) Fine grained, pale green, weakly laminated. Mineralization includes 1-2% Py occurring as f.d. and along bedding & fracture planes and assoc w vqj ⇒ 2ndary. Fractures have random orientation but many are at shallow angles to CA. x-cutting So/S ₁ 164.43 - 164.73 7% Py // 165.38 - 166.19 mod δ 166.19 - 166.52 1x2 + 1x1 cm band of massive Py + f.d. + ff 167.18 - 167.62 1x10 cm + 1x3 cm Zones of 60% f.d. banding	68704 68705 68706 68707 68708 68709		164.43 164.73 165.38 166.19 166.52 167.18	164.73 165.38 166.19 166.52 167.18	0.30 0.65 0.81 0.33 0.66 0.44	4 1084 35 15 21 3		0.022
167.62	173.06	INTERBEDDED ARGILLACEOUS GRAPHITE + MINOR MAFIC TUFF GP(S4), (V9B) Py Tuffs ~ 10% of interval. Argillaceous graphite + graphite contains between 3-7% Py w massive concs Py occurs as f.d. aggs + fractures plane scale 167.92 - 168.57 Tuff, wkly fractured 2% ff Py 169.47 - 169.57 80% Py w vj massive clots to 2cm 169.57 - 170.87 Graphite 5% Py	68710 68711 68712 68713 68714 68715 68716		167.62 167.92 168.57 169.47 169.57 170.87 172.24	167.92 168.57 169.47 169.57 170.87 172.24	0.30 0.65 0.92 0.10 1.30 0.88	2 21 5 64 7 1 21		

DIAMOND DRILL RECORD

NAME OF PROPERTY NOYON 32
 HOLE NO. KNO-86-12 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 7
 REMARKS _____

LOGGED BY B. H. Gray

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL	ppb	%	OZ/TON	OZ/TON
167.62	173.06	cont. 170.87 - 172.24 - 35% Py 20% carb 172.24 - 173.06 - Greywacke? 15% Py, n < Tr Po									
173.06	183.77	ANDESITE Fine to medium grained, generally massive rock, carbonized Upper contact is gradational, lower contact is sharp < Tr Po streaks, Tr f.d. Py 177.9 - 178.28 central 20 cm vq - steep to C.A.	68717 68718 68719		177.9 178.28 183.77	178.28 179.73 185.27	0.38 1.45 1.50	41 41 9			
183.77	199.19	INTERBEDDED MAFIC TUFFS, ARGILLITES, GRAPHITE V9 B, S4 (Gp), Gp (S4) Interval 30% Tuff So + 60° to CA, Beds from 1cm to 1 m thick. Mineralization includes Po + Py traces occurring as streaks // to So. Gp (S4) commonly contains up to 3% Py 188.75 - 191.68 - Argillaceous graphite last 50cm = 40% V9B 194.42 - 194.56 - 10% massive Py assoc to jff - jxtals to 3mm jff @ 10° to CA 1 cm wide 194.56 - 195.50 - 50% vq B - 2% Py 197.86 - 198.76 - wky sheared, mottled 2% bi?	68720 68721 68722 68723 68724 68725		193.7 194.42 194.56 194.56 196.9 197.86 198.76	194.42 194.56 195.50 195.50 197.86 198.76 199.19	0.72 0.14 0.94 0.96 0.90 0.43	3 4 1 1 41 20			

DIAMOND DRILL RECORD

NAME OF PROPERTY NOYON Q-32
HOLE NO. KNO-86-12 LENGTH _____
LOCATION _____
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH _____ DIP _____
STARTED _____ FINISHED _____

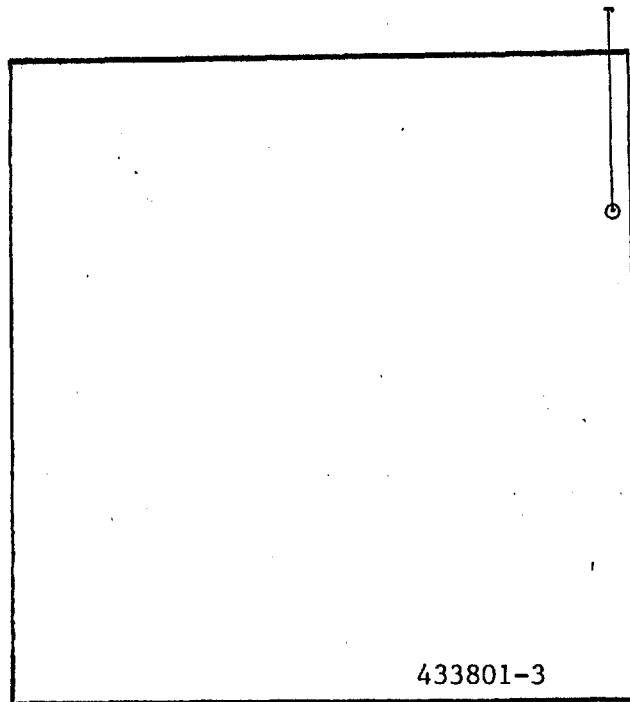
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 8/8

REMARKS _____

LOGGED BY B. H. Gray

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au ppb	%	OZ/TON	OZ/TON
					FROM	TO				
199.19	230.42	ANDESITE WITH VERY MINOR MAFIC TUFF V6 Fine grained, massive to weakly shistose $S_1 = 70^\circ$ to 60° - carbonatized - Mineralization includes traces of haematite - mostly occurring with v. ff 203.68 - 203.91 - wk Δ 2% Py ff 218.24 - 219.48 - Mafic Tuff $S_0 = 70^\circ$ to CA, med lam. 225.49 - 226.05 Tr. Py w vj	68726		202.13	203.68	1.55	<1		
			68727		203.68	203.91	0.23	<1		
			68728		203.91	204.37	0.46	2		
			68729		206.0	207.12	1.12	3		
			68730		208.25	209.41	1.36	2		
			68731		218.24	219.48	1.24	3		
			68732		225.49	226.05	0.56	4		
			68733		229.71	230.42	0.71	3		
	230.42	END OF HOLE								



HOLE LOCATION
KNO-86-13

1:5000
0 100
meters

DIAMOND DRILL RECORD

NAME OF PROPERTY Noyon Q-32
 HOLE NO. KNO-86-13 LENGTH 199.95m = 656'
 LOCATION _____
 LATITUDE 15° 80' S DEPARTURE 2 32° 50' E
 ELEVATION 0' AZIMUTH 360° DIP -50°
 STARTED Nov 5/86 FINISHED Nov 12/86

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
34.75	-47				
91.44	-43				
152.4	-38				
199.95	-34				

HOLE NO. _____ SHEET NO. 1/10

REMARKS _____

LOGGED BY B.H. Gray

FOOTAGE		DESCRIPTION Summary Log	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPH IDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	34.74	Overburden							
34.74	52.69	Chlorite 'Porphyry' Andesite or Chloritized Amphibolite	16c13	141p		Tr Py, Po		-local concn.	
52.69	85.81	42.77-52.69 Diorite. 2D/V6 Interbedded Andesite, Andesite Tufts and Chlorite Porphyry Andesite ↳ 'Tops' South ??				V6, V9, 13/	V6, 12	V6c13 (2)	
85.81	87.37	Cherty Exhalite and Tuff 5% Py, Po, local concentrations							
87.37	97.41	Chloritized Diorite or coarse Andesite 2D 1/ V6 2% vjf				Tr Py			
97.41	99.99	Sheared Andesite V6 (≠) 15%							
99.99	101.25	Andesite Tuff or Hyaloclastite V9, 13/ V6 1 (1) 1 x 35cm section of						70% s-felsic	
101.25	101.92	Gradational Contact: Greywackes and Argillites (possibly felsic tufts)						53, 54/ (V9, 12)	
101.92	105.06	Graphite and Argillaceous Graphite Gp, Gp(S4) 5% Py						'Tops' North	
105.06	109.52	Medium to Coarse Grained Andesite V6 (1c13)						Isoclinal fold hinges	
109.52	118.62	107.94-109.52 Possible And. Tuff. (V9, 13)							
118.62	122.5	Felsic Tuff V9, 12 Tr Py							
122.5	129.24	Felsic Agglomerate V10, 12 (1) Tr Py							
129.24	137.3	Microconglomerate and Greywackie S1, S3 (#) Tr Py, local biotite concentrations						'Tops' North	
137.3	141.93	Chlorite Porphyry Andesite or Chloritized Amphibolite V6c13 141p				Tr Py locally			
141.93	158.86	Microconglomerate or Greywackie S1/S3							
		Interbedded Greywackes, Argillites, Sandstone and Argillaceous Graphite						53, 54, Gp(S4), S2(2)	
		Tr Po in S3 Tr-10% Py, Po in S2							
		143.1-144.05 Rhyolite ? Di. Ke							
		continued							

DIAMOND DRILL RECORD

NAME OF PROPERTY.

No. 102

HOLE NO.

KNC-EG-1

SHEET NO.

2/10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
		Summary Log - con't									
158.86	199.95	156.55 - 158.86 Argillaceous graphite and graphite Gp(S4) + Gp Andesites V6, ((S4)) 1% vsg 179.11 - 193.3 Chlorite porphyry andesite V6C4 193.3 - 199.95 Coarse Andesite or Diorite V6/2.0 199.95 End of hole									

DIAMOND DRILL RECORD

NAME OF PROPERTY 1101-27

HOLE NO. K110-86-13

SHEET NO. 3/10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE	%	%	OZ./TON	OZ./TON	
					FROM TO TOTAL					
0	34.74	Overburden								
34.74	52.69	Chlorite Porphyry Andesite or chloritized Amphibolite Dark green, semi-hard (H=5½) massive rock containing ~ 50% chloritic spots, size range 1mm-1cm in a fine to medium grained intermediate to mafic matrix. Mineralization includes TrPy, TrPo. Chloritic spots appear to have no relict crystal shapes.	68943		35.77 36.07 0.30	21				
			68944		42.64 43.77 1.13	6				
			68945		43.77 43.98 0.21	2				
			68946		45.82 47.22 1.40	4				
			68947		47.22 48.83 1.61	5				
			68948		48.83 49.30 0.47	3				
		35.77-36.07 central 10 cm v. j. k. with TrPy	68949		51.84 51.93 0.09	2				
		43.77-43.98 15% biotite - dominantly assoc. w. v. j. patches	68950		51.93 52.69 0.76	4				
		-> 45.82-48.83 TrPo								
		-> 47.22-48.83 Rk is stly finer grained and has somewhat of a chloritic appearance								
		48.83-52.69 Rk 160% andesitic / 40% m.g. as above - possible chill margin of above?								
		51.84-51.93 5% primary (streaks + bands of Po rpy) 20% v. j., 10% biotite								
52.69	85.81	Interbedded Andesite, Andesitic Tuffs and Chlorite Porphyry Andesite V6, V9 _B /V6, V6C13 & Internal ~25% V6, 55% V9 _B /V6 20% V6C13. V6C13 is similar to that above but varies slightly in grain size. Upper contacts this unit are gradational whereas lower contacts are sharp (Tops uphole (south)) V9 _B /V6 moderately laminated So = 50° to CA. V6C13 is only weakly								

DIAMOND DRILL RECORD

NAME OF PROPERTY Neyen

HOLE NO. KNO-86-13

SHEET NO. 4/10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	02/TON	02/TON
					FROM	TO	TOTAL				
		carbonatized whereas V6 and V9 _B /V6 are moderately to pervasively carbonatized - Interval is cut by ~ 3% biotite rich mafic dikes									
	→ 52.69-64.67	V9 _B /V6	68951		54.38	55.44	1.06	3			
	54.38-55.44	3 x 10 cm V ₉ parallel to S ₀	68952		56.95	57.21	0.26	1			
	56.95-57.21	30% V ₉ + 10% biotite	68953		57.21	59.13	1.92	3			
	63.81-64.67	weakly fractured	68954		63.81	64.67	0.86	1			
	→ 64.67-68.88	medium grained V6	68955		68.88	70.14	1.26	1			
	→ 68.88-70.93	V9 _B /V6 68.88-70.14 10% V ₉ f.f.	68956		75.43	77.60	2.17	4			
	→ 70.93-73.96	V6 L ₁₃	68957		77.6	77.75	0.15	1			
	→ 73.96-77.75	V9 _B /V6	68958		82.41	83.06	0.65	36			
	75.43-77.6	5% V ₉ f.f. - f.f. w/ly fractured	68959		84.26	85.38	1.12	2			
	77.6-77.75	40% V ₉ (1 x 10 cm + 2 x 1 cm veins + patches)	68960		85.38	85.81	0.43	4			
	→ 77.75-83.06	20% V6 L ₁₃ / (4 H ₁)									
	82.41-83.06	rK is mod schistose + contains 2% biotite									
	→ 83.06-85.81	V6 82.46-85.81 1% f.d. Py + Po + 2% V ₉ f.f.									
85.81	87.37	Cherty Exhalite and Tuff ch Exhalite, V ₉ cherty sections ~ 70% of interval. These are well laminated, S ₀ = S ₀₀ to CA and contain ~ 5% Py + Po with local concentrations. Tuffaceous sections are hard (H=6) and possibly of felsic composition. Sharp upper and lower contacts	68961		85.81	86.52	0.71	3			
	86.52-86.66	10% Py + Po - primary strings	68962		86.66	87.17	0.51	1			
	86.66-87.17	Tuff - 1% f.d. Po	68963		87.17	87.37	0.20	1			

DIAMOND DRILL RECORD

NAME OF PROPERTY Mayon
HOLE NO. KNO-86-13 SHEET NO. 5/10

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
87.37	97.41	Chloritized Diorite or Coarse Andesite 2D ϕ /V6 Top meter is f-mg and is in V6 spectrum - possible chill margin - rest is more dioritic. Unit cut by 2% scattered Vj ϕ . Mineralization includes localized traces of Py-aggregate. Lower contact gradational 87.37-88.74 1x 7cm Vj in at 75° out at 50° to CA 94.25-95.16 90 cm long Vj @ 0° to CA 1/2 cm tw Tr scale Py assoc with Vj	68964		87.37	88.74	1.37	2				
			68965		94.25	95.16	0.91	5				
97.41	99.99	Sheared Andesite V6 (F) Dark green fine grained semi-soft rth containing a 15% carb fracture fill, scale and Vj ϕ - dominantly paralleling S ₁ which = 75° to CA - moderately well developed → 97.41-98.76 RK contains 12% secondary g ₂ phenos - avg size 2/mm	68966		97.41	98.76	1.35	27				
			68967		98.76	99.99	1.23	3				
99.99	101.25	Andesite Tuff or Hyaloclastite V9 ϕ /V6 Δ (n) Moderately laminated S ₀ =60° to CA and moderately carbonatized. Upper contact relatively sharp - lower contact questionable 100.68-101.02 70% f.d. Py - 2 phases - brassy and yellow	68968		99.99	100.68	0.68	1				
			68969		100.68	101.02	0.34	76				
			68970		101.02	101.25	0.23	46				
101.25	101.92	Spyrwackies and Argillites S3, S4 ((V9 α)) n Gradational contact into sects beneath RK lens	68970		101.25	101.92	0.67	21				

DIAMOND DRILL RECORD

NAME OF PROPERTY Neyen

HOLE NO. KNO 86-13

SHEET NO. 6/10

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	02/TON	02/TON
		a grey - olive green hue, is wkly to moderately laminated, fine grained, moderately to strongly carbonized and contains ~10% finely disseminated Py. WK S ₂ @ 55° to opposite CA from S ₁ , which = 70° to CA									
101.92	105.06	Graphite and Argillaceous Graphite Gp1, Gp1(54) Grey-black, well laminated but moderately folded giving various S ₀ angles. Unit contains ~5% primary (bedded) Py. Upper contact gradual - lower contact sharp - Tops downhole (N) - gradual upper contact - coarser into finer 102.95 + 103.18 + 103.51 Isoclinal fold hinges => -102.95 @ 60° to CA after 30° clockwise rotation from main S ₁ - 103.18 @ 90° to CA - 103.51 @ 45° to CA after 45° ccw from main S ₁ - actual slip along this hinge. -> 104.6-104.69 - very similar to 101.25 - 101.92 -> 104.69-105.06 V6/S3	68971		101.92	102.69	0.77	5			
			68972		102.69	103.09	1.00	4			
105.06	109.52	Medium to Coarse Grained Andesite V6 ((C3)) Massive rock with Tr carbonate f.f. Unit contains 1x60cm interval containing ~5% chlorite porphyroclasts. No v/s Tr hematite. Upper and lower contacts not well defined -> 107.94 - 109.52 possible mafic tuff 109.35 - 109.52 1x10cm cherty band + 1x3cm S4(G ₂) band	68973		107.94	109.35	1.41	2			
			68974		109.35	109.52	0.17	2			

DIAMOND DRILL RECORD

NAME OF PROPERTY Neyem
HOLE NO. K110-86-13 SHEET NO. 7/10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	O2/TON	O2/TON
					FROM	TO	TOTAL				
109.52	118.62	Felsic Tuff V9a η Fine grained, grey, semi-hard, moderately laminated - beds 1cm to 10cm thick. So = Si = 70° to CA - weakly schistose, strongly carbonated. Unit contains ~10% carb veining and fracture fill. Mineralization includes Tr Py. It is 5 1/2. Upper contact sharp @ 70° to CA. Lower sharp @ 70° to CA	68975		109.52	110.78	1.26	2			
			68976		110.78	112.13	1.35	41			
			68977		112.13	113.61	1.48	41			
			68978		113.61	115.1	1.49	41			
			68979		115.1	116.62	1.52	41			
			68980		116.62	118.08	1.46	41			
			68981		118.08	118.62	0.54	41			
118.62	122.5	Felsic Agglomerate (pyroclastic) V10a (η) Grey, moderately carbonated, mod laminated (70° to CA) it containing ~25% lenticular shape clast in a fine grained intermediate matrix. Clast size ranges from 1mm to > 3cm (few) avg ~ 1 1/2 cm x 1/2 cm. Shapes commonly lenticular - occasionally with dentate boundaries. Composition of clasts = 10% cherty, 70% carbonated felsic-lithic 20% subvol gte - avg ~ 2mm in size. Clasts lie in plane of So. Mineralization includes traces of Py. Lower contact sharp - paralleling So	68982		118.62	119.81	1.19				
			68983		119.81	121.13	1.32				
			68984		121.13	122.5	1.37				
122.5	129.24	Microconglomerate and Greywacke S1, S3 (H) coarse epiclastics Fine grained green matrix containing ~15% coarse clasts ranging in size from 1mm to 3cm - avg ~ 3mm. 2/3 of clast are angular to subvol, 1/3 are lenticular. Clast composition = 45% feldspar (many of the smaller clasts are felds)									

DIAMOND DRILL RECORD

NAME OF PROPERTY Neyon

HOLE NO. KND-86-13

SHEET NO. 8/10

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		5% to 45% wky carbonized lithus (fragments of V9, V10 from above (i.e. Tops down hole = A1) RK is moderately schistose S ₁ = 65° to CA. Difference from V10 ₂ above includes a more mafic matrix here plus the presence of V10-like clasts and lack of cherty clasts. Unit also contains some biotite rich intervals. Upper and lower contacts sharp. Mineralization includes TrPy	68985		122.5	123.8	1.38	2			
		123.88-124.47 25% biotite, 5% cubic Py	68986		123.38	124.47	0.59	21			
		127.6 - 127.84 3% biotite	68987		124.47	125.22	0.75	21			
		→ 127.84-129.24 Tr cherty clasts, clasts increase to 65% rk more schistose and v. silty sericitized	68988		125.22	126.47	1.25	21			
			68989		126.47	127.6	1.13	6			
		→ ~40% of last 1m is f.g. and contains only 1% clast	68990		127.6	127.84	0.24	9			
		127.84-127.95 5% Py	68991		127.84	127.95	0.11	2			
		127.95-128.87 central 20cm contains 4 or 5 x 5mm vjw ~50% w in these veins which // S ₀ // S ₁	68992		127.95	128.87	0.92	3			
			68993		128.87	129.24	0.37	4			
129.24	137.30	Chlorite Porphyry Andesite or Chloritized Amphibolite V6 CB / 4Hφ. RK is massive and contains ~60% angular to subrd chloritic porphyroclasts (a) d amphiboles or 'blasts' avg size ~2mm. Matrix is very f.g., and is of intermediate composition. Mineralization includes Py traces. Upper and lower contacts sharp. Upper and lower contacts sharp - fining out at lower contact.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Moyn
HOLE NO. KNC-86-13 SHEET NO. 9/10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON
					FROM	TO	TOTAL			
		133.98-134.47 1x13cm + 1x5cm vqjw 45-75° to CA	68994		133.98	134.47	0.49	21		
137.3	141.93	Microconglomerate or Greywacke S1/S3 - Similar to 127.84-129.24, lower meter much the same as last meter in 127.84-129.24	68995		138.67	140.07	1.40	3		
141.93	158.86	Interbedded Greywackes, Argillites, Sandstone? and Argillaceous Graphite S3, S4, Gp(S4), S2(?) Greywackes - fine grained chloritized matrix containing ~20% felsic clasts - avg size ~1mm, mostly angular sometimes lenticular. S3 ~40% of interval. Fining of grain size suggests Twp down hole = North. Mineralization in S3 includes Pb traces. Sandstone - Fine to medium grained, grey, semi-hard, wtkly schistose/laminated S0/S1 = 70° to CA. RK contains ~10% gtz + 5% felsic? clasts avg size ~1/2 mm in a vfg siliceous matrix. S2 ~20% of interval. Mineralization includes Tr-10% f.d. + Scale Py + Pb								
		141.19-141.85 15% vqjw // S1	68996		141.19	141.83	0.74	2		
		143.1-144.05 hard, grey, f.g sharp contacts @ 45-50° to CA, wtk to mod fractured Rhyolite? Dike	68997		143.1	144.05	0.95	3		
		→ 144.05-144.7 S2	68998		144.05	144.7	0.65	21		
		146.19-147.27 Tr Py S3/S2?	68999		146.19	147.27	1.08	21		
		→ 149.07-151.0 Gp(S4) S0 = 70° to CA	69000		149.07	150.43	1.36	21		
		→ 152.09-154.35 S3	69001		150.43	151.02	0.59	21		
		153.59-153.73 80% vqjw with Tr Py along fractures	69002		151.02	152.09	1.07	21		
			69003		152.09	152.63	0.54	21		

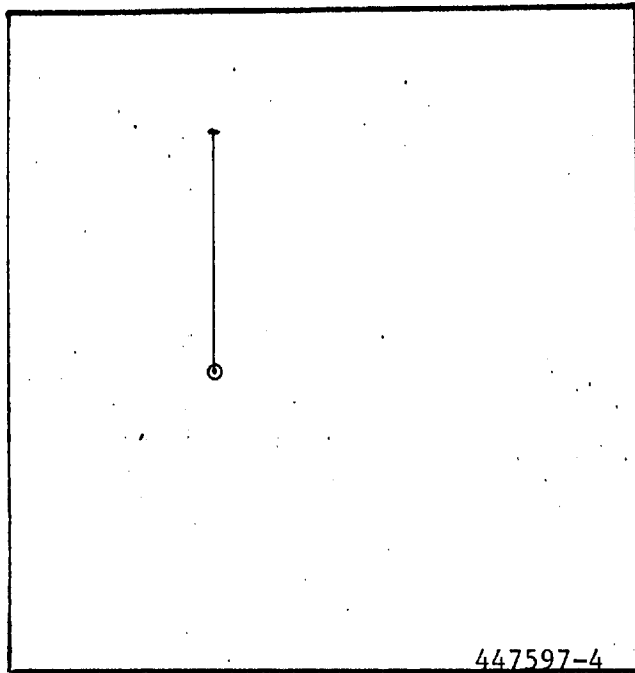
DIAMOND DRILL RECORD

NAME OF PROPERTY

HOLE NO. KNO-86-13

SHEET NO. 10/10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL	%	%	OZ./TON
		154.35-155.68 Tr-1% Py, 1% Po	69001		152.63	153.59	1.06	41		
		155.68-156.12 S-10% biotite in S3	69005		153.59	153.73	0.14	41		
		→ 156.55-158.86 Gp(54) + Gp 1% Py + Po	69006		153.73	154.35	0.62	41		
		156.55-156.84 2% Py Argillite	69007		154.35	155.68	1.33	41		
			69008		155.68	156.12	0.44	41		
158.86	199.95	Andesites with very minor interbedded Argillite V6	69009		156.12	156.55	0.43	7		
		Green, fine to medium grained, & weakly schistose	69010		156.55	156.84	0.29	5		
		S ₁ = 60° to CA. WK local carbonatization. Unit cut by	69011		156.84	158.29	1.45	41		
		~1% vjq - predominantly at steep angles to CA.	69012		158.29	158.86	0.57	41		
		Mineralization is sparse								
		175.56-177.02 3% vjq	69013		158.86	159.47	0.61	41		
		→ 179.11-193.3 Gradational change into this andesite	69014		172.36	173.17	0.81	41		
		containing ~50% chloritic phenos - porphyroclasts?	69015		175.6	177.02	1.42	41		
		186.58-187.09 Sheared @ 100° to CA	69016		186.58	187.09	0.51	41		
		→ 193.3-199.95 Gradational change into this coarse	69017		187.09	187.65	0.56	41		
		grained andesite or diorite V6/20	69018		195.08	193.13	?	3		
			69019		199.14	199.95	0.81	41		
199.95		End of hole								



447597-4

HOLE LOCATION

KNO-86-14

1:5000

0 100
meters

DIAMOND DRILL RECORD

LOGGED BY

B.H. Gray

PROPERTY

Noyon Q-32

LATITUDE

20°50'S

BEARING OF HOLE

360°

STARTED

Sat Nov 15/86

DEPARTURE

S3°50'E

DIP OF HOLE

-50°

COMPLETED

Tues Nov 18/86

ELEVATION

0'

DIP TESTS

DEPTH

236.52 m = 776' check

D.D.H. No. KNO-86-14 PAGE 1/22

CLAIM No.

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
0	32.92	Overburden								
32.92	51.26	Interbedded Argillike, Greywackies and Possible Mafic Tuffs				S3, S4, V9 _B /34 (n) (#) <TrPy				
51.26	54.94	Andesitic Hyaloclastite V6 Δ (#) ((n))								
54.94	61.47	Felsic Tuff V9 _α / (S2?) ((2)) (n) TrPy								
61.47	63.98	Feldspar Crystal Tuff - possible Porphyritic Dacite V9 _α f □ / (V4 f □) TrPy								
63.98	66.52	Felsic Tuff V9 _α								
66.52	77.15	Feldspar Crystal Tuff V9 _α f □ ((2)) <TrPy								
77.15	77.64	Quartzite								
77.64	79.15	Sheared Andesite or Mafic Tuff V6/V9 _β ≠ 10% Po 5% j								
79.15	98.87	Chloritized Amphibolite/Diorite 4H φ / 2D φ <TrPy, Po → 92.99 - 98.87 Andesitic								
98.87	100.04	Cherty Exhalite 1-2% Py + Po								
100.04	103.91	Andesite V6 n 2% leucoxene								
103.91	114.1	Interbedded Chloritized Amphibolite and Andesite 4H φ, V6 (n)								
114.1	116.44	Andesite V6 n TrPy								
		116.0-116.44 Hyaloclastite V6 Δ n TrPy								
116.44	120.08	Graphite Gp + Gp(S4) 1-4% Py + Po								

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-14 PAGE 2/22

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
120.8	122.37	Graphite, Argillite and Carbonate 9p, S4, 15% j								
122.37	144.54	Andesitic Ash Tuff V9 _B 3% vjg, cTr Py								
		143.84-144.54 Interbedded V6 and V6A								
144.54	150.29	Chloritized Diorite or Chlorite 'Porphyry' Andesite V6 c13/2D φ 5% leucorene Tr Py + Po								
150.29	152.8	Cherty Exhalite 1-2% Po + Py 30% Po + Py from 152.52-152.8								
152.8	174.28	Interbedded Andesite or Diorite and Biotite-Carbonate Schist V6/(2D)((L)), M1 bij Tr Py								
		169.37-170.27 and 173.65-174.28 M1 bij with 15% gte?								
174.28	177.82	Mafic Tuff with Thin Interbedded Felsic Tuff V9 _B , (V9 _w) Tr Py								
177.82	180.58	Felsic to Intermediate Tuff V9 _w cTr Py								
180.58	182.58	Porphyritic Diorite 2D f13 ((A)) Tr Py								
182.58	185.31	Chloritized Amphibolite 4H φ Tr Py, local biotite concentrations								
185.31	188.11	Amygdaloidal Andesite? V6 c9 ((f)) φ Tr-3% biotite								
188.11	190.05	Felsic Tuff V9 _w (n)								
190.05	198.57	Mafic Tuff V9 _B Tr Py								
		194.82-198.57 Andesitic Hyaloclastite V6A								
198.57	201.83	Coarse Grained Chloritized Andesite V6 φ 2% leucorene								
201.83	202.85	Cherty Exhalite								

LOGGED BY _____

PROPERTY**LATITUDE**

BEARING OF HOLE

STARTED

DEPARTURE

DIP OF HOLE

COMPLETED

ELEVATION

DIP TESTS

DEPTH

D.D.H. No. KNO-86-14 PAGE 3/22

CLAIM No.

-DIRECTION AND DISTANCE FROM

NE. CLAIM POST

[illegible]

DIAMOND DRILL RECORD

LOGGED BY

B. H. Grey

PROPERTY Noyan

LATITUDE 20+50S

BEARING OF HOLE 360°

STARTED Sat Nov 15/86

DEPARTURE L 5.3 + 50 E

DIP OF HOLE -50°

COMPLETED

ELEVATION ①

DIP TESTS

DEPTH

D.D.H. No. KNO-86-14 PAGE 4/22

CLAIM No.

-DIRECTION AND DISTANCE FROM

NE. CLAIM POST

[illegible]

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. _____

PAGE 5/22

CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST _____

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	An ppb	Studs			
FROM	TO			FROM	TO			Sample	From	To	Supp
		shaped carb (chdbs) clasts to 1 mm in well laminated									
		with 7 mm int 5 mm									
→	38.76 - 40.75	S4									
→	40.75 - 42.22	S4 ₃ containing ~ 10% vqj + vj // 50 but 2ndary									
→	42.22 - 43.64	S3, local S1? wt wt med									
→	43.64 - 44.0	S4/Vqj ₃ gradual contact									
→	44.0 - 46.19	S3 S									
→	46.19 - 48.99	S4 ₃ 10% vqj + vj // 50 but 2ndary									
→	48.99 - 50.04	S3, S4 (1 S)									
→	50.04 - 50.21	V6 dy									
→	50.21 - 50.96	S3, S4 (S)	69135	33.65	33.74	0.09	1	69500	32.92	35.36	1
→	50.96 - 51.26	SS (≠)	69136	33.74	35.36	0.62	<1				
	33.65 - 33.74	10% vqj steep but 2ndary	66137	36.65	36.72	0.07	<1				
	36.65 - 36.72	1/10 cm vqj @ 0.45° b CA main Fe-carb?	69138	36.72	36.86	0.14	<1				
	38.87 - 40.05	100% vqj 17% Fe-carb - sediments??	69139	36.86	38.87	2.01	1	69499	35.36	38.4	8
	42.22 - 43.35	mainly sediment	69140	38.87	40.05	1.18	<1				
			69141	42.22	43.35	1.13	<1	69498	38.4	41.45	4

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. K110-86-14 PAGE 8/22

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au ppb	Scrap No	Subtotal		
FROM	TO			FROM	TO				From	To	Depth
		c 44.87m - fold kinked fracture e 90° to CA - 0° rotation	69142	44.0	45.66	1.66	<1	69497	41.45	44.5	12
			69143	45.66	46.19	0.53	1				
51.26	54.94	Andesitic Hypoblasticite V6 Δ (H) (n)	69144	46.19	47.55	1.36	2	69496	44.5	47.55	4
		fine grained green, w/ky laminated and schistose e	69145	47.55	48.99	1.44	<1	69495	47.55	50.6	3
		SS° to CA - w/ky carbonated. No visible sulphide	69146	50.96	51.26	0.30	<1	69494	50.6	53.64	6
		54.55-54.70 1x1cm vjg // So + 1x10cm vjg abundant	69147	53.33	54.55	1.22	1	...			
		pink carbonate	69148	54.55	54.70	0.15	<1	69493	53.64	56.69	8
54.94	61.47	Felsic Tuff V9 / (S2?) (P) (n)	69149	54.94	55.61	0.67	<1				
		Variable in grey, fine grained, well laminated So = S ₁ =	69150	59.36	59.99	0.63	5	69492	56.69	59.74	20
		SS° to CA - beds on order of 1-2 cm thick, hard	69151	59.99	60.56	0.57	<1				
		H ₂ O - Some mineralization - Tr by cubes Upper contact	69152	60.56	61.51	0.95	<1	69491	59.74	62.79	<1
		gradational through intermediate tuff	69153	61.31	61.47	0.16	<1				
		61.31-61.47 70% vjg // So					<1				
61.47	63.98	Dacite with Felsic Phenocrysts in Felsic Crystal Tuff 1450/14.5 FA	69154	61.47	61.92	0.45	<1				
		Massive to w/ky schistose, H ₂ O 6 1/2, grey, slightly	69155	61.92	63.04	1.08	<1				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
 ELEVATION _____ DIP TESTS _____ DEPTH _____

D.D.H. No. KNO-86-14 PAGE 7/22

CLAIM No. _____



DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	In ppb	Strides			
FROM	TO			FROM	TO			Sample No	From	To	In ppb
		gray rock containing ~ 10% an/subhedral feldspar (plag) phenocrysts - avg size ~ 2mm. Mineralization includes Tr Bt. Upper contact relatively sharp. Lower is questionable	69156	63.04	63.98	0.94	<1				
63.98	66.86	Felsic Tuff V9									
		wk to moderately laminated, $S_0 = S_1 = 60^\circ$ to CA									
		lighter gray than above, H ~ 6 1/2 no feldspar phenos	69157	63.98	65.5	1.52	<1	69490	62.79	65.84	2
		but it is gray containing ~ 5% grt clasts. Also contains Tr ~ 3% carb fracture fill + scale -> 11/50	69158	65.5	66.86	1.36	<1				
66.86	77.15	Feldspar Crystal Tuff V9 f10									
		wk to moderately laminated, $S_0 = S_1 = 60^\circ$ to CA. Lighter greenish-gray than above. H ~ 6 1/2 containing ~ 10-15% an/subhedral plag phenos avg ~ 1-2 mm size and 1% grt clast or phenos. It contains Tr carb f.f. and is locally wtkly cemented. Mineralization is	69159	66.86	68.56	1.70	<1	69489	65.84	68.88	2
			69160	68.56	69.75	1.19	<1				
			69161	69.75	70.13	0.38	<1	69488	68.88	71.93	1
			69162	70.13	71.73	1.70	<1				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____ BEARING OF HOLE _____ STARTED _____

DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____

ELEVATION _____ DIP TESTS _____ DEPTH _____

D.D.H. No. KNO-86-14 PAGE 8/22

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au ppb	Storage			
FROM	TO			FROM	TO			Sample	From	To	Au ppb
		sparse and includes localized Py traces - mostly associated with vlg f.f. ^{1/2 to 1 inch contains 5% beach - 20% gtz. - 1/2 inch}	69163	71.85	73.34	1.49	<1				
		69.75-70.13 moderately granulated ^{two slightly more mafic material}	69164	73.34	74.93	1.59	<1	69487	71.93	74.98	2
		71.73-71.85 KNO-18-3	69165	74.93	76.41	1.48	<1				
			69166	76.41	77.15	0.74	<1				
77.15	77.64	Quartzite SS (1.1) 65% irregularly shaped gtz fragments in a f.g. chlorite matrix No yfs. Notbed	69167	77.15	77.64	0.49	1				
77.64	79.15	Transition Zone - Steeped Tuff/Andesite V6/V9 #10% Pz Upper contact sharp - marked by 10 cm vlg. lower contact gradational. S ₁ well developed e 400 to CA It contains - 5% comb bedding. Pz // S ₀ => back	69168	77.64	78.33	0.69	<1	69486	74.98	78.03	7
			69169	78.33	79.15	0.82	26	69485	78.03	81.08	5
79.15	98.87	Chloritized Amphibolite / D rock 4Hφ/2Dφ Medium to coarse grained, massive, hard (6 1/2-7) It containing Tr-1% vlg. of at various angles to CA						69484	81.08	84.12	3

KNO-4

LOGGED BY

PROPERTY

LATITUDE

BEARING OF HOLE

STARTED

DEPARTURE

DIP OF HOLE

COMPLETED

ELEVATION

DIP TESTS

DEPTH

D.D.H. No. KNO-86-14 PAGE 9/22

CLAIM No.



-DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au ppb	Secondary			
FROM	TO			FROM	TO			Sample	Form	S To	Imp. ppb
		Mineralization includes locally good tracing Py + Po 84.93-85.12 70% vjg ~ Tr g w - much is pent in @ 70° out @ 600 f CA	69170	84.41	84.93	0.52	2				
			69171	84.93	85.12	0.19	8	69483	84.12	87.17	5
			69172	86.86	87.33	0.47	<1				
		86.86-87.33 Tr Po, wkly epidotized 87.33-87.74 20% vjg - 1/4" + patches → 92.99-98.87 Andesite	69173	87.33	87.74	0.11	<1	69482	87.17	90.22	12
								69481	90.22	93.27	5
98.87	100.04	Cherty Exhalite Sharp upper and gradational lower contact suggesting Tops' down hole = N. Fine grained, silty olive green-grey, hard (6 1/2-7) So - 50° to CA	69174	98.87	99.5	0.63	2	69480	93.27	96.32	5
		Mineralization includes 1-2% finely disseminated Py + Po + stringer Py + Po = primary + (2ndary?)	69175	99.5	100.04	0.54	10	69479	96.32	99.36	5
100.04	103.91	Andesite V6 2 Fine to medium grained, green, weakly schistose S _i = 40° to CA No visible sulphides except for Tr Py in	69176	100.04	100.22	0.18	<1				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-14

PAGE 10/22

CLAIM No. _____



DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	An	Stratigraphic				
FROM	TO			FROM	TO			ppb	Sample	Interval	To	Depth
		top 10 cm. Scattered v.g. to 5 cm wide, <1%. Lower contact sharp. 2% leucocrane	69177	100.22	100.77	0.55	<1					
									69478	99.36	102.41	9
103.91	114.1	Interbedded Chloritized Amphibole and Andesite 4Hφ, V6g							69477	102.41	105.46	10
		65/35 4Hφ/V6. V6 tends to be more calc. carbonatized. No visible sulphides. Gradational lower contact							69476	105.46	108.51	7
		108.0 - 108.37 80% v.g. - 1x 20 cm 1x 5 cm, steep to CA	69178	108.0	108.37	0.37	1		69475	108.51	111.56	8
									69474	111.56	114.6	10
114.1	116.0	Andesite V6g										
		Green, fine grained, semihard (H=5-5½) mod. strongly carbonatized										
		115.68 - 116.0 Tr Py	69179	115.68	116.0	0.32	<1					
116.0	116.44	Andesite Hyaloclastite Tr Py	69180	116.0	116.44	0.44	<1					

LOGGED BY

PROPERTY

LATITUDE

DEPARTURE

ELEVATION

BEARING OF HOLE

STARTED

DIP OF HOLE

COMPLETED

DIP TESTS

DEPTH

D.D.H. No. KNO-86-14 PAGE 19 / 22

CLAIM No.

-DIRECTION AND DISTANCE FROM

NE. CLAIM POST

[illegible]

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-14 PAGE 13/22

CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO		pph	
150.29	152.8	Cherty Exhalite						
		fine grained, grey, hard, moderately to well laminated						
		S ₀ = 55° to CA. Sharp upper and lower contact	69199	150.3	151.85	1.55	4	
		laminations includes 1-2% primary P ₀ beds to 3mm	69200	151.85	152.52	0.67	6	
		plus streaks and fine dissemination of P ₀ + P ₁ - local concentrations	69201	152.52	152.70	0.18	11	
		152.52 - 152.80 30% sulphide - most mineral 15cm vj is						
		P ₀ + P ₁ - massive P ₀ , cubes of P ₁						
152.8	174.28	Interbedded weakly epidotized Andesite or (Diorite) and						
		Biotite - Carbonate Schist V6(PD)(Kt), M1 bi j						
		Contacts between units are semisharp and approximately						
		parallel S ₁ which = 60° to CA ⇒ Biotite grades out but over very short intervals						
		M1 bi j - comprises ~ 35% of interval in beds ranging						
		from .1m to 1.5m. Rk is fine to medium grained,						
		and is composed of ~ 20-30% biotite, 10% carbonate (calcite)						
		~ 3% pink dolomite ?? of chertlike stained quartz ?? 1-2%						

Some pink-red material as f.f. where cross-cuts vj + vjg

30-60% chlorite vjg + pink material ~ 2% locally w/ky magnetic - Mt?

KNO-15-S

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-14 PAGE 14/22

CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au		ASSAY			
FROM	TO			FROM	TO		ppb					
		finely disseminated and aggregate Py + Tr (passive vq										
		V6/(2D) (1E)) Medium (to coarse) grained, slightly										
		limey green. Massive, mottled, weakly zoned										
		Mineralization includes 1% finely disseminated Py										
		152.8 - 153.81 M1 bi j	69202	152.8	153.81	1.01	13					
		-> 153.81 - 155.7 V6/(2D) (1E)	69203	153.81	154.22	0.41	2					
		154.22 - 154.27 central 1cm vj + pink mineral + 5% f.d. Py	69204	154.22	154.27	0.05	21					
		154.73 - 154.93 2x 1-2cm v pink + yellow j + g ??	69205	154.73	154.93	0.46	3					
		-> 155.70 - 157.62 dominantly M1 bi j	69206	154.73	154.93	0.20	2					
		156.99 - 157.62 5% including 2x 1cm vj + pink mineral + blebs	69207	154.93	155.7	0.77	1					
		M1 bi j + V6/(2D) (1E))	69208	155.7	156.14	0.44	2					
		-> 157.62 - 161.35 dominantly V6/(2D) (1E))	69209	156.14	156.35	0.21	2					
		159.28 - 159.48 5% Py, central 5cm vq - steep (A to Tr (p	69210	156.35	156.61	0.26	2					
			69211	156.61	156.99	0.38	2					
			69212	156.99	157.62	0.63	2					
			69213	157.62	159.28	1.66	4					
			69214	159.28	159.48	0.20	20					

GARNET ?

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

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DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST _____

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au		ASSAY	
FROM	TO			FROM	TO		ppb			
	→ 161.35 - 163.1	Dominantly Albij	69215	159.48	160.97	1.49	3			
	162.29 - 163.1	Central 20 cm with 50% Vg + 19% Py	69216	160.97	161.35	0.38	2			
	→ 163.1 - 164.67	Fine grained Andesite	69217	161.35	162.29	0.94	4			
		27% white and aggregate Py	69218	162.29	163.1	0.81	6			
	→ 164.67 - 169.37	Chloritized Diabase 20% Vg 3%	69219	163.75	164.67	0.92	13			
		leucocrane Tr agg Py	69220	168.46	169.37	0.91	3			
KN-6	→ 169.37 - 170.27	Albij gk?	69221	169.37	169.66	0.29	3			
		It similar to other Albij but also contains ~	69222	169.66	170.27	0.61	4			
		15% irregularly shaped (sub) semi hard, silty								
		blue mineral = pyrit gk 17%?								
	169.37 - 169.66	including 1 x 10 cm Vg: 1/5, = 55°								
	→ 170.27 - 173.65	Chloritized Diabase/Andesite 20% Vg 16(F)								
		contains ~ 27% leucocrane + so weakly epitotized and								
		contains ~ 27% scattered epidote-hornblende rims	69223	170.27	171.09	0.82	2			
		to 2 cm wide (only Tr-27% w) Tr Py grad. pyrit contact	69224	171.09	172.52	1.43	2			
	170.27 - 171.09	- last 30 cm biotite rich	69225	172.52	173.65	1.13	41			
	173.65 - 174.28	Albij g (same as 169.37 - 169.66)	69226	173.65	174.28	0.63	1			

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
 ELEVATION _____ DIP TESTS _____ DEPTH _____

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DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
174.28	177.82	Mafic Tuff with thin interbedded felsic tuff V _{9x} (V _{9x}) Mafic tuff is deep grass green, fine to medium grained, moderately schistose and weakly laminated. $S_0 = S_1 = 60^\circ$ to CA. Rk contains Tr-17 carbonate fracture fill. Mineralization includes Tr Py - conglomerate and cubes. Contacts with felsic tuffs are very sharp and parallel S_0, S_1 . Units very similar to that of 177.82 - 180.58								
		175.66 - 175.83 V₂ with red pink felsic + carb fracture fill. Fractures @ shallower angle to CA	69227	174.28	175.66	1.38	2			
			69228	175.66	175.83	0.17	2			
			69229	175.83	176.30	0.47	<1			
			69230	176.3	176.56	0.26	1			
			69231	176.56	176.72	0.16	<1			
		176.30 - 176.72 V _{9x}								
177.82	180.58	Felsic to Intermediate Tuff V _{9x} Fine grained, grayish buff (H=6) 'grassy' mod schistose and laminated $S_1 = S_0 = 60^\circ$ to CA Sharp upper + lower contacts. < Tr Py								
			69232	177.82	179.25	1.43	<1			
			69233	179.25	180.58	1.33	<1			

LOGGED BY

PROPERTY

LATITUDE

BEARING OF HOLE

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COMPLETED

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[illegible]

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PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
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NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	M ppb	ASSAY			
FROM	TO			FROM	TO						
185.31	188.11	Amegdaloidal Andesite ? V6c9(+)) @ (470p) Grass green fine to medium grained with local amagblule concentrations to ~25% score. Amagblules composed of laminae of Qtz + chlorite and hornblende with occasional plagioclase Tr - 37 biotite in much of rock. Distinctive upper sharp lower contact	69239	185.31	185.99	0.68	2				
188.11	190.05	Felsic Tuff V9x (n) Same as 177.82 - 180.58	69240	188.11	189.0	0.89	<1				
			69241	189.0	190.05	1.05	<1				
190.05	198.57	Mafic Tuff V9p Fine grained, dark green, weakly laminated, So = 65% to CA Tr Py locally	69242	192.42	193.85	1.43	1				
		→ 192.42 - 194.82 Rk contain 2-5% biotite + 2-5% j	69243	193.85	194.82	0.97	2				
		→ 194.82 - 198.57 Indes. f.c. Hyaloclastite	69244	197.88	198.49	0.61	<1				
		→ 198.49 - 198.57 V9jw - 40% w, Tr Py, tensional fractures	69245	198.49	198.57	0.08	<1				

DIAMOND DRILL RECORD

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FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
195.57	201.83	Coarse grained chloritized Andesite-cg V6 d moderately developed schistosity $E \approx 5^\circ$ to CA. R contains ~2% pyroxene, Ti ~1% carbonate fractures fill + 20% chloritic porphyroclasts to 5mm in a fine grained chloritic matrix. Rf present in last 1/2 meter. No visible sulphides					11			
201.83	202.25	Cherty Exhalite Fine grained, very hard, well laminated No visible sulphides. sharp contacts								
		202.13 - 202.25 vjw	69216	201.83	202.13	0.30	21			
			69247	202.13	202.25	0.12	2			
202.25	211.49	Felsic Tuff V9a Green, semi-hard (11" x 5 1/2") containing ~10% coarse clasts in a very fine grained felsic matrix. Clasts are lenticular - slightly unplanar. $Al_2Si_2 = 700$ to CA and range in size from c1 to 4mm long dimension. Composition								

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

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NE. CLAIM POST _____

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au ppb	ASSAY			
FROM	TO			FROM	TO						
		D. l. l. = altered lithics ??	69248	202.25	202.89	0.64	61				
		~ 60% of interval is as described above, 35%	69249	202.89	203.91	1.02	61				
		no of ash grains size with no clasts and 5%	69250	203.91	205.37	1.45	61				
		is of other types. No visible sulphides	69251	205.37	205.82	0.45	61				
		205.37-205.82 Feldspar crystal ash tuff	69252	205.82	206.61	0.79	61				
		=> 25% broken feldspar, appears to ~ 7mm	69253	206.61	208.19	1.58	61				
		205.82-206.61 Fine grained fine ash tuff	69254	208.19	209.48	1.29	61				
		210.96-211.49 60% vj(j) shallow to CA	69255	209.48	210.96	1.48	1				
			69256	210.96	211.49	0.53	61				
211.49	223.95	Andesite V6 q									
		Fine to medium grained moderately, locally									
		strongly carbonatized. RK is massive to very									
		weakly schistose. Upper + lower contacts									
		gradational. No visible sulphides									
		211.49-212.14 central 15 cm vj, from low-shallow to CA	69257	211.49	212.14	0.65	61				
		212.39-217.46 1A 3 cm vj - pale	69258	212.39	217.46	0.07	2				
			69259	217.46	218.23	0.77	1				

LOGGED BY

PROPERTY

LATITUDE

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FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Dip pph	ASSAY			
FROM	TO			FROM	TO						
		220.12 - 220.19 90% vq; - in steep part e 45° to CA	69260	220.12	220.19	0.07	2				
		220.19 - 220.56 Possible Vq, Tr f.d. Py	69261	220.19	220.56	0.37	3				
223.95	234.06	Andesitic Tuff Vq ₂ x Ash to fine grained, moderately laminated S _o = 80% CA moderately to strongly carbonatized Tr Py locally. Gradational lower contact	69262 69263	223.95 224.25	224.25 224.35	0.30 0.10	4 6				
		224.25 - 224.35 90% vfjge - folded	69264	225.74	226.06	0.32	4				
		225.74 - 226.06 S ₇ carb ff - some e shallow angle to CA	69265	226.06	226.98	0.92	11				
		229.37 - 229.85 - as above	69266	229.37	229.85	0.48	3				
		231.71 - 232.76 moderately folded, 40% primary carb	69267	231.35	231.71	0.36	5				
		233.57 - 234.06 weakly semi-folded	69268 69269	231.71 232.76	232.76 233.57	1.05 0.81	5 2				
234.06	234.57	Argillaceous Graphite Sp(54) Fractured and folded, w/k S ₇ e 35° CA after 90° cr	69270 69271	233.57 234.06	234.06 234.57	0.49 0.51	2 3				
234.57	236.52	Felsic to Intermediate Tuff Vq ₂ x ((2))									

LOGGED BY _____

LATITUDE

BEARING OF HOLE

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DEPTH 236.52 m

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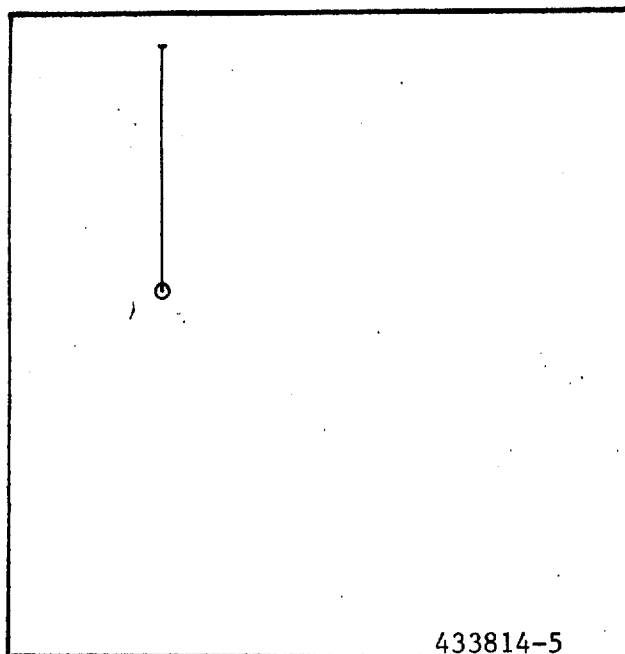
CLAIM No.



—DIRECTION AND DISTANCE FROM

NE. CLAIM POST

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HOLE LOCATION
KNO-86-15

1:5000

0 100
meters

DIAMOND DRILL RECORD

LOGGED BY R.H. Gray

PROPERTY Northern Q-32

LATITUDE 8+20 S BEARING OF HOLE 310° STARTED Thurs Nov 20/86

DEPARTURE 7+20W DIP OF HOLE -50° COMPLETED Fri Nov 28/86

ELEVATION 0' DIP TESTS 47.5° @ 61.57m, 43° @ 121.92m DEPTH 240.18m = 788'
39° @ 182.88m, 34° @ 240.18m

D.D.H. No. KNO-86-15 PAGE 1/17

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DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
0	61.57	Overburden								
61.57	66.47	Greywackie S3 ((2/1)) Tr Py → very weak sericitic or talcose alteration					66.39-66.47	Fault Gouge		
66.47	77.35	Mafic Tuff V9p (n) Tr Py								
77.35	84.72	Altered and Sheared Andesite V6 ≠ n ((1/2)) Tr Py								
		78.52-79.93 60% glz veining with Tr Py								
84.72	89.5	Anorthositic Diorite 2D Tr haem, Py								
89.5	93.72	Sheared and Altered Dioritic Andesite V6/2D (2,1)					90-90.22	Some fault gouge		
93.72	100.94	Dioritic Andesite V6 1, (2D) Tr Py								
100.94	102.64	Diorite 2D ((5))								
102.64	112.39	Andesite or Basalt V6/V7 Tr-2% Py, P, Tr, Sp, Sph, locally brecciated								
112.39	113.3	Transition Zone V9p (n) ?								
113.3	117.83	Felsic Tuff V9a/(S3α) (n) Tr Py, 'Tops' SE								
117.83	120.42	Porphyritic Dacite or Feldspar Crystal Tuff V4 & B / (V9α F B)								
120.42	121.24	Basaltic Flow V7 2% B 3% carbonate fracture fill								
121.24	123.18	Andesitic Hyaloclastite V6 Δ (n) ((5))								
123.18	126.21	Interbedded Greywackie and Argillite S3, S4 Tr Py 'Tops' SE								
126.21	129.09	Graphite and Graphitic Argillite Gp, Gp(S4) 1% Py								

DIAMOND DRILL RECORD

LOGGED BY

PROPERTY Noyon Q-32

LATITUDE 8¹/₂° S BEARING OF HOLE 310° STARTED Thurs Nov 20/86

DEPARTURE 7120 W DIP OF HOLE -50° COMPLETED Fri Nov 28/86

ELEVATION 0' DIP TESTS _____ DEPTH _____

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-DIRECTION AND DISTANCE FROM

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[illegible]

DIAMOND DRILL RECORD

LOGGED BY

PROPERTY

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LOGGED BY _____

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CLAIM No.

-DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	R _n pph	Studge			
FROM	TO			FROM	TO			Sg/Lt	Pctm	Tc	d _m /l
		carbonated with very weak to weak sericite/talrose alt ⁿ . Most of 'united' contains - 3% leucorene (or felspar - plagi)	69289	77.35	77.68	0.33	<1	69466	74.98	78.03	2
		Mineralization includes Tr Py - f.c.t + scale	69290	77.68	78.13	0.45	<1				
		77.35-77.68 - last 10 cm = 60% vq // S ₁ + L to S ₁	69291	78.13	78.52	0.39	2				
		77.68-78.13 15% chloritic porphyroclasts, S ₁ = 50° CA	69292	78.52	79.36	0.84	<1				
		-> 78.52-79.43 Quartz Ven Zone 60% vq ± j e various angles to CA - Tr Py - schwaeg + host	69293	79.36	79.93	0.57	1	69465	78.03	81.08	2
		-> 79.43-82.54 very strongly carbonatized - No leucorene not as strongly sheared	69294	79.93	81.08	1.15	3				
		81.80-82.67 1-2% Py 10% vqj	69295	81.08	81.80	0.72	<1				
		-> 82.67-84.25 weak to moderate sericite/talrose alt ⁿ	69296	81.80	82.67	0.87	<1	69464	81.08	84.12	5
			69297	82.67	84.25	1.58	2				
			69298	84.25	84.72	0.47	3				
84.72	89.5	Anorthositic Diorite 2D									
		Medium to coarse grained, semishapropyr, sheared lower contacts, RK contains - 65% am/subhedral plag	69299	84.72	86.24	1.52	<1				
		felspars and - 35% mafics (chlorite) RK is massive	69300	86.24	87.81	1.57	<1	69463	84.12	87.17	6
		and contains traces of haematite + Py (Py → vq)	69301	87.81	89.5	1.69	<1	69462	87.17	90.22	3

DIAMOND DRILL RECORD

LOGGED BY _____

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NE. CLAIM POST _____

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au ppb	Stixley			
FROM	TO			FROM	TO			Sample	From	To	Length
89.5	93.72	Sheared and Altered Dioritic Andesite V6/2D(2,1)	69302	89.5	90.22	0.72	<1				
		Fine and medium grained, schistose (S _i = 30° to CA)	69303	90.22	92.03	1.81	2	69461	90.22	93.27	5
		in top 1m then ~40° after, gradually to strongly	69304	92.03	92.51	0.48	4				
		carbonatized, weak sericite / talcose alteration + 1-2%									
		montmorillonite? overall. No visible sulphide									
		89.5-90.22 last 20 cm is broken + contains some pebbles									
		92.03-92.51 90% v.g. weakly fractured									
KNO-15-2	→	92.51-93.72 4% montmorillonite? wk to moderate	69305	92.51	92.85	0.34	1				
		sericite / talcose alt ⁿ , possibly superheated	69306	92.85	93.72	0.87	2				
		c. 93.5 - open fold hinge - S _i = 0° to CA									
93.72	100.94	Dioritic Andesite V6/2D	69307	93.72	95.0	1.28	4	avg distance			
		Fine, medium and locally coarse grained, massive,	69308	95.0	97.0	2.0	14	69460	93.27	96.32	2
		weakly fractured r.k. containing ~ 2% leucoceno?	69309	97.0	98.03	1.03	3	69459	96.32	99.36	134
		To finely disseminated Py	69310	98.03	99.46	1.43	4				
		99.46-99.95 v.g. with minor j - in + out step to CA	69311	99.46	99.95	0.49	<1				
			69312	99.95	100.94	0.99	18	69458	99.36	102.41	10

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
 ELEVATION _____ DIP TESTS _____ DEPTH _____

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DIRECTION AND DISTANCE FROM

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FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au ppb	Zn ppm	Sludge		
FROM	TO			FROM	TO				iron	Ti	Al
100.94	102.64	Diorite 2D (15)									
		Massive, medium to coarse grained, weakly silicified, relatively sharp contacts. No visible sulphides.	6935	100.94	102.64	1.70	3				
		35-40% feldspar, ~60% chloritized omphacite									
102.64	112.34	Andesite or Basalt V6/V7 Py, Po, Cp, Sp									
		Fine grained, dark green massive to weakly schistose rock containing 3% tourmaline. Mineralization includes Tr-27 finely disseminated Py, Po + , + + Tr Cp + Sp - localizing (15cm x 57cm) with 107.61K chln fr.	69314	102.64	103.64	1.00	26	69457	102.41	105.46	103
KND-15-3			69315	103.64	104.27	0.63	37	49			
			69316	104.27	105.01	0.74	583	69			
		103.64-104.27 27% Po, 17% Py, 17% Cp, Tr Sp	69317	105.01	105.88	0.87	133				
		105.88-106.0 15% f patch + 1x1cm vj w 30% Py selvage	69318	105.88	106.0	0.12	12				
		107.29-107.51 2cm vj with 30% sp in vj + host - X-cuts S ₁	69319	106.0	107.29	1.29	9	69456	105.46	108.51	22
			69320	107.29	107.51	0.22	3				
		-> 111.6 - 112.39 tourmaline decreases to ~1%, rkmine	69321	107.51	109.1	1.59	2				
		Schistose, S ₁ = 40° to CA	69322	109.1	110.81	1.71	4	69455	108.51	111.56	10
			69323	110.81	112.39	1.58	4				

DIAMOND DRILL RECORD

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NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	In ppb	Sludge			
FROM	TO			FROM	TO			From	To	Depth	ppb
		weakly to moderately schistose and moderately to strongly carbonated. $S_1 = 40^\circ$ to CA. Mineralization is scarce - Tr Py. Local variations include slight increases in manganese, concentrations of U_2 and U_1 and more strongly developed schistosity through weak cherting						69448	129.84	132.89	26
		134.57-135.54 mod schistose Tr scale Py	69339	134.57	135.54	0.97	3				
		135.54-136.24 5% j - primary 17 nd Tr Py	69340	135.54	136.24	0.70	38	End of Sludges			
		137.33-138.22 20% vjfg - minor Fe carb?	69341	137.33	138.22	0.89	4				
		139.28-140.12 1X 5cm vjfg in Tr f.d Py - bit white j	69342	139.28	140.12	0.84	2				
		143.29-144.1 moderately fractured 3% siliceous f.f. Tr Py w some ff	69343	143.29	144.1	0.81	41				
		145.18-145.33 40% vjfg in 10cm - in e 45° out e 80° to CA	69344	145.18	145.33	0.15	41				
		Tr Py siliceous	69345	145.33	145.84	0.51	2				
		→ 147.92-151.74 RK as mod to well developed schistosity	69347	147.92	149.05	1.13	2				
		→ e 148.28 and 150.08 S_1 goes to 0° to CA in 10cm	69348	149.05	150.08	1.03	1				
		→ 149.05-151.0 30% vjfg paralleling and x-cutting schistosity	69349	150.08	151.0	0.92	41				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-15 PAGE 12/17

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au		Zn			
FROM	TO			FROM	TO		ppb	ppm				
		151.74-152.74 Tr Py w vj	69350	151.0	151.74	0.74	21					
		157.0 - 157.9 strongly schistose, 10% j.f.s. + bldg.	69351	151.74	152.74	1.0	21					
		→ 157.9 - 161.25 Possible vjg										
		159.06-159.97 1x7cm + 1x15cm vjg Tr Sp? Tr haem	69352	159.06	159.97	0.91	5					
		→ 161.25 - 169.0 predominantly co Andesite										
		163.08 - 164.14 Tr haem, several 5cm zones vjg small	69353	163.08	164.14	1.06	8		56			
		alt'cingle around veinlets resulting in K-feldspar										
		167.71-169.0 - locally blocky, 17 haem, 1x20cm broken	69354	167.71	169.0	1.29	41		56			
		zone of 40% vjg (with blk chert)										
		→ 169.0-172.52 moderately to strongly schistose 5% vjg some with Tr Py stringers										
		e 169.2 - 10K S ₂ @ 55° to CA (S ₁ near 0° to CA	69355	169.0	170.29	1.29	3					
		e 170.5 - 171.5 S ₁ = 0° to CA to shallow to CA - 1K broken	69356	170.29	170.34	0.05	5					
		170.29-170.34 + 171.35-171.66 1% Py + Tr Cp and/or vjg	69357	170.34	171.35	1.01	2					
		→ 172.52 - 175.35 Possible rhyolite Tuff weakly laminated	69358	171.35	171.66	0.31	3					
		ngust flow banding: S ₁ = 45° to CA	69359	171.66	172.52	0.86	2					
		175.35 - 175.67 last 10 cm with 1x1cm + 1x4cm	69360	174.05	175.35	1.30	12					
		vjg with Py	69361	175.35	175.67	0.32	3					

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-15 PAGE 18/17

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	An	ppb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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LOGGED BY _____

LATITUDE _____ BEARING OF HOLE _____ STARTED _____

DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____

ELEVATION _____ DIP TESTS _____ DEPTH _____

D.D.H. No. KNO-86-15 PAGE 16/17

CLAIM No. _____

CLAIM No. _____
DIRECTION AND DISTANCE FROM
NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Av. ρ_{pb}				
FROM	TO			FROM	TO						
		220.8 - 221.19 25 cm vj t.c.w = 1/2 cm - 0-50 l.c.a	69404	220.8	221.19	0.39	4				
			69405	221.19	221.91	0.72	<1				
		225.08 - 225.26 70% vj in 4x3 cm + 1x10 cm zones - 2ndary	69406	225.08	225.26	0.18	1				
			69407	225.26	226.04	0.78	4				
		226.04 - 226.20 1x 8 cm vj (j) // S ₁	69408	226.04	226.20	0.16	8				
232.08	240.18	Graphitic Argillite, Greenwackes, and Argillite S ₄ (Gp), S ₃ , S ₄ n									
		→ 232.08 - 232.86 Graphitic Argillite S ₂ vj // S ₀ = 65° l.c.a	69409	232.08	232.86	0.78	3				
		n - Tlly - Topo up to 2 S (9.5. gradation) (climbing contact)									
		→ 232.86 - 234.36 S ₃ , S ₄ Rk contains ~ 5% felsic clasts with having clay-like alk	69410	232.86	234.36	1.50	2				
		n - avg size ~ 1/2 mm in fg mafic matrix S-10%									
		→ 234.36 - 237.0 vj Green argillite with 90% vj // S ₀ = S ₁									
		234.36 - 234.8 75% vj	69411	234.36	234.8	0.44	2				
		→ 236.74 - 237.42 Moderately sheared ≠ S ₁ (unintegrated)?	69412	234.8	235.96	1.16	(2 / best for)				
		→ 237.0 - 240.18 Greywacke? - light to medium green, fine grained, w/ky laminated with rough	69413	235.96	237.0	1.04	2				

B.H.G

PROPERTY

LATITUDE

BEARING OF HOLE

STARTED

DEPARTURE

DIP OF HOLE

COMPLETED

ELEVATION

DIP TESTS

DEPTH

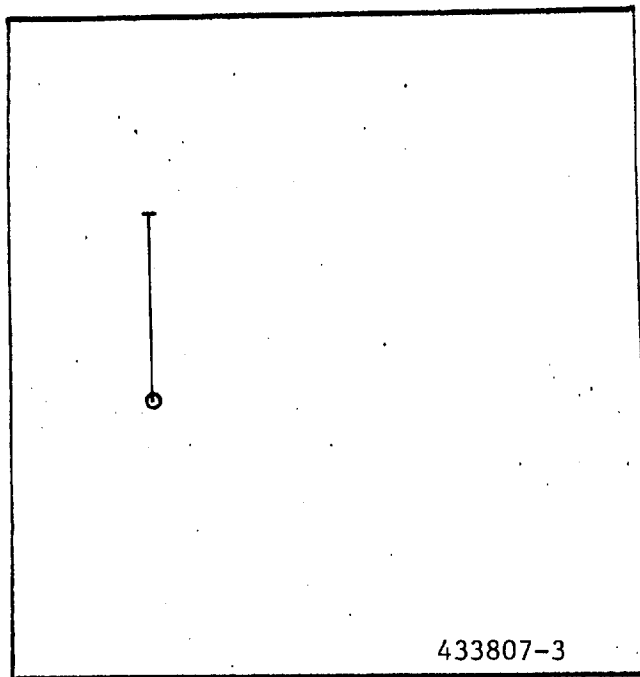
D.D.H. No. KNO-86-15 PAGE 17/17

CLAIM No.

-DIRECTION AND DISTANCE FROM

NE. CLAIM POST

[illegible]



HOLE LOCATION
KNO-86-16

1:5000
0 meters 100

DIAMOND DRILL RECORD

LOGGED BY B. H. Gray

PROPERTY Noyon Q-32

LATITUDE S+85S BEARING OF HOLE 040° STARTED Nov 29/86

DEPARTURE 31+70W DIP OF HOLE -50° COMPLETED Dec 1/86

ELEVATION 0' DIP TESTS 45° @ 21.95m, 28° @ 60.96m DEPTH 184.1m = 604'

D.D.H. No. KNO-86-16 PAGE 1/15

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
0	21.95	Overburden								
21.95	51.33	Schistose Mafic Tuff (Possible Argillite) V9 _B / (S4, S3) # ((≠)) ((λ, h, h , φ)) 3-5% j Tr-1% Py Tr Mt								
		41.45-44.03 Haemilitized Sericitic Schst (Tuff?) M1 h, λ ≠								
		After 44.03 1lt concs more granular but still conc								
		50.6-50.8 Gneissic ?? : K-span xenoliths, chlorite, silver mica								
		50.8-51.1 S2 ≠ / S5 ≠ ??								
		51.1-51.33 Gneissic - same as 50.6-50.8 but with 1-2% Py								
51.33	59.4	Schistose Mafic Tuff or Argillite V9 _B / S4 # ((λ, h, h , φ)) (η)								
		53.36-53.74 Broken rK ⇒ weak fault?								
		After 58.11 No more pink ((λ, h, h , φ)) alteration								
59.4	60.45	(Ductile) Brecciated Qtz Zone Tr Py								
60.45	62.15	Argillite S4 ((λ)) 1-2% Py								
		61.54-62.15 Strongly sericitized? Bleached 5% Py								
62.15	80.37	Andesitic Tuffs V9 _B 5% j Tr Py								
		62.15-64.8 Qtz Zone - pods + veins, minor boudinage Tr Py								
80.37	86.10	Qtz Diorite? 2Dg ((λ)) some blue Qtz, local (λ)								
86.10	93.12	Basalt V7 (η) Tr Py 2% vj (q) e								

DIAMOND DRILL RECORD

LOGGED BY R. H. Gray

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-16 PAGE 2/15

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
93.12	95.85	Felsic (Dacitic) Dikes V4 dy (A) Tr-3% Py								
		93.92-94.7 Andesitic xenolith								
95.85	104.36	Andesites V6 ((n, 5)) Tr Py, Tr haem								
		=> 104.56-120.61 Fault Zone: fractured, fault gouge, schistose								
104.36	106.45	Graphitic Argillite S4 (Gp) A 10-20% vj								
106.45	141.62	Andesite V6 (n) ((15))) Tr Py ≠ -> # -> ((+))								
		119.25-120.61 Fault and sub-fault gouge								
		=> 120.61-132.0 Schistose, sheared Andesite V6 # (≠) n > 5% j Tr Py local ((2, 1/5))								
		122.5 10 cm of fault gouge								
		124-124.18 Fault and sub-fault gouge								
		=> 132.0-141.62 Andesite (Possible Mafic Tuff) V6/(V93) n								
141.62	171.78	Mafic Tuff or Andesite V93/V6 n Tr Py								
		163.5 10 cm of fault gouge								
171.78	172.93	Stained Porphyritic Andesite V6 f3 h ((15))								
172.93	184.1	Mafic Tuff V93, ((V103))								
		177.0-184.1 Broken rock								
	184.1	End of Hole								

LOGGED BY

PROPERTY

LATITUDE

BEARING OF HOLE

DEPARTURE

DIP OF HOLE

ELEVATION

DIP TESTS

STARTED Sat Nov 29/86

COMPLETED Jan Dec 1/86

DEPTH 604'

D.D.H. No. KNO-86-16 PAGE 34

CLAIM No.

-DIRECTION AND DISTANCE FROM

NE. CLAIM POST

[illegible]

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-16 PAGE 4

CLAIM No. _____

DIRECTION AND DISTANCE FROM _____

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Assay	ASSAY			
FROM	TO			FROM	TO						
		23.49-24.45 Rare pink zone 1X5cm of 10% Py + 1% H ₂ O	69470	23.49	24.45	0.96	2				
		24.45-25.4 5% primary carb? 13% f.d. 1agg Py	69471	24.45	25.4	0.95	2				
		25.4-26.53 2% Py - last 10cm contain silty stretched clasts - greenish carb units?	69472	25.4	26.53	1.13	<1				
		26.53-27.96 wk local pink alt ⁿ 2% Py	69473	26.53	27.96	1.43	1				
		27.96-28.44 2X5cm silty + 10% j	69474	27.96	28.44	0.48	<1				
			69475	28.44	29.39	0.95	<1				
			69476	29.39	30.5	0.66	7				
		30.5-30.79 Predominantly pink alt ⁿ S _g e 2006	69477	30.5	30.79	0.72	<1				
		opposite CA after 45° cut	69478	30.79	32.06	1.27	1				
		30.79-32.06 ~30% pinkish alt ⁿ	69479	32.06	33.52	1.46	1				
		32.06-41.45 Min. pink alt ⁿ	69480	33.52	34.89	1.37	<1				
			69481	34.89	35.93	1.04	<1				
		35.93-36.48 2.37 f.d. py assoc w j'beds ~ 30% j'beds	69482	35.93	36.48	0.55	2				
			69483	36.48	37.85	1.37	<1				
			69484	37.85	39.39	1.54	1				
		39.39-39.46 - 50% vj(g) Tr f.d. Py	69485	39.39	39.46	0.07	<1				

j - injected during shearing or similar deformation?

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNo-86-16 PAGE 5/

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	4 _h	ASSAY			
FROM	TO			FROM	TO						
KNo-16-1			69436	39.46	40.46	1.0	2				
41.45	44.03	<i>Haematized Sericitic Schist (Tuff) H1 h, 2, #</i>	69437	40.46	41.45	0.99	1				
		<i>Finely grained, pink alteration is very strong</i>									
		<i>Sections (including 1x70 cm) contain ~50% white</i>									
		<i>to pink lenticular 'clasts' - avg size 3mm x 1mm</i>									
		<i>in a green chlorite or altered pink, fine grained</i>									
		<i>matrix. Gradational variations in colors of clast</i>									
KNo-86-2		<i>from white to pink show that this is an</i>									
		<i>overprinting alk⁺ and is not syndipositional</i>									
		<i>Some clasts have a ^{white} siliceous core with pink rim</i>									
		<i>There is very minor carbonate in the system</i>									
		<i>Local pyrite concentrations</i>	69438	41.45	41.7	0.35	1				
			69439	41.7	42.5	0.08	23				
			69440	42.5	43.78	1.28	6				
			69441	43.78	44.03	0.25	8				
		<i>43.78-44.03 10% f.d. 'bedded' Py</i>									
		<i>→ After 44.03 alk conc^s become silty more popular</i>									
KNo-16-3		<i>RK also looking more 'clastic'</i>									
KNo-16-4		<i>get thomsonite like 41.45-44.03</i>									

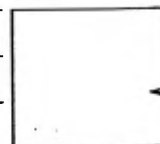
Very near gneissic texture

Alk⁺ fields stained

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
 ELEVATION _____ DIP TESTS _____ DEPTH _____



D.D.H. No. KNO-86-16 PAGE 6/

CLAIM No. _____



DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
→	44.03 - 50.6	generally mediate, locally strong pink alt ⁿ	69442	44.03	44.98	0.95	3			
	44.98 - 45.66	5% Mt in last 20 cm	69443	44.98	45.66	0.68	1			
	45.66 - 47.76	Not very strongly, alt ^d - dm green	69444	45.66	47.05	1.39	3			
			69445	47.05	47.76	0.71	1			
	47.76 - 48.44	central 20 cm appears to contain - 5% red sand	69446	47.76	48.44	0.68	1			
		grains? (qtz with inclusions) or inclusions??	69447	48.44	49.72	1.28	1			
	50.6 - 50.8	greenish - deep red + green bands to	69501	49.72	50.6	0.88	1			
		3 mm wide = K-spar, chlorite, silicemica	69502	50.6	50.8	0.20	1			
→	50.8 - 51.1	52 ± / 55 ± ??	69503	50.8	51.1	0.30	1			
		80% pink-orange zones surrounded by thin chloritic								
		rich whips, pink zones are zoned and appear to consist								
		of small grains held together by a siliceous cement								
		Sharp contacts, Tr Py								
	51.1 - 51.33	similar to 50.6-50.8 but 1-2% Py	69504	51.1	51.33	0.23	1			

LOGGED BY

PROPERTY

LATITUDE

BEARING OF HOLE

STARTED

DEPARTURE

DIP OF HOLE

COMPLETED

ELEVATION

DIP TESTS

DEPTH

D.D.H. No. KA/0-86-16 PAGE 7/

CLAIM No.

-DIRECTION AND DISTANCE FROM

NE. CLAIM POST

[illegible]

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. KNO-86-16 PAGE 8/

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au pph	ASSAY			
FROM	TO			FROM	TO						
		v minor graphite, 1K v weakly fractured, 1-22 f.d	69513	60.45	60.56	0.11	11				
		f.c.d. py	69514	60.56	61.54	0.98	29				
		60.45-60.56 5% Py - mostly coarse in patches jgw									
		→ 61.54-62.15 Possible argillite but v strong beige brown	69515	61.54	62.15	0.61	13	} Double Split			
		alth making rK mod soft (rK) 5% f.d Py	69516	61.54	62.15	0.61	10				
		Upper zone of alt & sharp lower is gradational									
62.15	80.37	Andesite Tufts 193									
		Fine grained and green 5% carbonate 'beds', nodularly									
		siliceous and weakly, locally laminated S ₁ -S ₂ = 55% KCS									
		TrPy Thin interbeds with carbonated S ₁ ystals = 54, 53 f.d									
		→ 62.15-64.8 Qtz bed + Verm zone : 50% siliceous	69517	62.15	63.5	1.35	3				
		lenticular to round beds to 2cm x 5mm in fine	69518	63.5	64.8	1.30	2				
		chertic matrix : Some pebbles appear to be brecciated									
		TrPy									
			69519	64.8	66.26	1.46	2				
			69520	66.26	67.68	1.42	1				

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

ELEVATION _____

DIP TESTS _____

DEPTH _____

D.D.H. No. RNO-86-16 PAGE 9

CLAIM No. _____

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au ppb	ASSAY			
FROM	TO			FROM	TO						
		Very minor graphite	69521	67.62	68.88	1.20	<1				
			69522	68.88	70.46	1.58	<1				
			69523	70.46	71.26	0.80	1				
			69524	71.26	71.87	0.61	2				
		71.87-72.2 central 25 cm vqj with 10% chlorite rocks	69525	71.87	72.2	0.33	<1				
		73.71-76.98 Vg ₂ / 54, 53 f.d. q	69526	72.2	72.4	0.20	1				
			69527	72.4	73.71	1.31	1				
		79.74-80.37 45% primary j bands + 5% f.d. q 1/2 f.d. p	69528	79.74	80.37	0.63	3				
80.37	86.10	Qtz Diorite? 20% (6) 15% qtz - some blue - slty	69529	80.37	81.07	0.70	4				
		Weakly silicified 35% abundant fibers in f.g. chlorite	69530	81.07	81.28	0.21	9				
		inert Tr by	69531	81.28	82.59	1.31	8				
		81.07-81.28 70% weakly faceted vqj f.d.	69532	82.59	84.12	1.53	6				
		84.12-84.86 mod 7 bands, 3% vq, blue qtz	69533	84.12	84.86	0.74	3				
		84.86-85.49 mod 7	69534	84.86	85.49	0.63	6				
		85.49-86.1 2x6 cm zone of vqj k	69535	85.49	86.1	0.61	2				

LOGGED BY

PROPERTY**LATITUDE****DEPARTURE**

ELEVATION

BEARING OF HOLE

DIP OF HOLE

DIP TESTS

STARTED

COMPLETED

DEPTH

D.D.H. No. KNo-86-16 PAGE 10/

CLAIM No.

--DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	By APB	ASSAY			
FROM	TO			FROM	TO						
86.10	93.12	Basalt V7(a) Fine grained, dark green, moderately carbonatized T.P., weakly schistose S ₁ = 45° to CA Wavy wafley epidotized. Natural cut by Z2 vj(g)e Sharp lower, semisharp upper contact	69536	86.10	87.17	0.07	53				
			69537	91.24	93.12	1.88	20				
93.12	95.85	Felsic (Dacitic) dikes Fine grained, grey, hard (H ~ 6½) weakly brecciated and containing Tr to 3% Py - 93.92 - 94.7 Andesitic xenolith? 93.92 - 93.95 - Fault gouge material or altd rim of xeno crinoidal felds phenos to 3 mm from 93.35 - 95.75	69538	93.12	93.92	0.80	54				
			69539	93.92	94.7	0.78	7				
			69540	94.7	95.85	1.15	1				
95.85	104.36	Andesites V6 ((n, s)) Fine to medium grained, weakly schistose and carbonatized, massive v. weakly schistose Tr Py, Tr barren									

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

DEPARTURE _____

DIP OF HOLE _____

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FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	H ppb	ASSAY			
FROM	TO			FROM	TO						
		95.85-96.07 moderately brecciated	69541	95.85	96.07	0.85	<1				
		97.68-98.71 central 20cm has 30% vsg	69542	97.68	98.71	1.03	<1				
		101.26-102.44 3% vsg f.f. e shallow angles to CA	69543	101.26	102.44	1.18	<1				
		103.83-104.56 moderately siliceous	69544	103.83	104.56	0.73	<1				
104.56	120.61	Fault Zone									
		Brecciated Sediments and Volcanics, also fractured, fault gouge, schistose locally									
104.36	106.45	Graphitic Argillite S4 (Gp) vj	69545	104.56	105.46	0.90	<1				
		Fractured, brecciated, 10-20% vj locally	69546	105.46	106.45	0.99	6				
			69547	106.45	106.8	0.35	<1				
106.45	141.62	Andesite V6 (1) (15))	69548	106.8	107.91	1.11	<1				
		Green, fine grained, Tr Py, carbonatized	69549	107.91	109.31	1.41	2				
		116.96-119.29 moderately siliceous, wjky fractured	69550	109.31	110.87	1.56	15				
		e 119.5m - 10cm fault gouge 119.29-120.61 sub-fault gouge	84451	110.87	112.38	1.51	10				
		e 120.5-120.61 jtc	84452	112.38	113.93	1.55	11				

LOGGED BY

PROPERTY

LATITUDE

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BEARING OF HOLE

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-DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	A _u	ASSAY		
FROM	TO			FROM	TO					
⇒	120.61 - 132.0	Schistose, sheared Andesite V6 H (#) η = 5.2; Tr Py	84453	113.97	115.27	1.30	27			
		Fine grained, green, very schistose r.k. with local S ₂ development - shallows to S ₁ 55° to CA S-10% carb t.f. parallel to S ₁ . Tr Py only. Local pinkish alt ⁿ 1/4 in fault margin	84454	115.27	116.96	1.69	1496	} 1077/2.98'		
			84455	116.96	118.25	1.29	529			
			84456	118.25	119.29	1.04	36			
			84457	119.29	120.61	1.32	29			
-	122.5	10 cm of fault gouge	84458	120.61	121.3	0.79	5			
-	122.9	S ₂ @ 35° to CA after 90° cr (S ₂ to approx 11A)	84459	121.3	122.8	1.50	1			
⇒	124-124.18	alt fault gouge + fault gouge	84460	122.8	124.18	1.38	2			
⇒	126.35 - 126.5	S ₁ @ 0° to CA	84461	124.18	125.63	1.45	<1			
	127.14 - 127.37	1 st and last 10 cm have pink alt ⁿ + Tr Py 1 st 10 cm silicified + alkyl fractured	84462	125.63	127.14	1.51	<1			
	127.53 - 128.66	weakly silicified and fractured, slight pervasive pink alt ⁿ . Internal calcars ~ 3% an subhedral K-spar crystals to 2 mm	84463	127.14	127.37	0.23	<1			
			84464	127.37	127.53	0.16	<1			
			84465	127.53	128.66	1.13	<1			
⇒	132.0 - 141.62	Andesite (possible rapakivi) V6 H (V98) η similar to above but schistosity less well developed	84466	131.36	132.31	0.95	<1			

DIAMOND DRILL RECORD

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FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	pph	ASSAY			
FROM	TO			FROM	TO						
		132.31 - 132.24 wk 5, fractured, Tr-1% hematite	84467	132.31	133.24	0.93	21				
		133.24 - 133.56 5/2 cub f/e 5° to 6 CA - pink f/e to 7mm wide	84468	133.24	133.56	0.32	1				
			84469	133.56	134.57	1.01	21				
			84470	134.57	135.94	1.37	1				
			84471	135.94	137.21	1.37	2				
		137.31 - 137.8 Tr/d Py + 1x 20cm vj e 10° to 6 CA -	84472	137.31	137.8	0.49	7				
		1cm tow - local pink hues in vj	84473	137.8	138.6	0.80	1				
		138.61 - 138.99 strong pink/red alt ⁿ , Tr f.d. Py. Internal	84474	138.61	138.99	0.38	21				
		contains 80% coarse pink/red alt ⁿ clasts - clast	84475	138.99	139.27	0.30	3				
		parent = amygdaloid? which has been more susceptible to									
		peeling up alt ⁿ stain?									
		138.99 - 139.27 last 10cm like above									
		141.45 - 142.55 Tr Py	84476	141.45	142.55	1.10	7				
141.62	171.78	141.62 - 171.78 1/4" to 1/2" n Andesite 1/4" to 1/2" n	84477	145.3	146.17	0.87	3				
			84478	146.17	147.28	1.11	11				
		147.28 - 147.91 wk 5, Tr-1% Py, 3% pinkish f/e hematite	84479	147.28	147.94	0.64	20				
		149.67 - 150.78 Tr Py	84480	149.67	150.78	1.11	18				

DIAMOND DRILL RECORD

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FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	Au ppb	ASSAY			
FROM	TO			FROM	TO						
		153.28-153.54 25 cm vj @ 0° to CA 3-10 mm f.c.w.	84481	153.28	153.54	1.26	7				
			84482	153.54	154.00	1.04	7				
		154.58-155.0 Tr py + several vj @ shallow ° to CA 3 mm f.c.w.	84483	154.58	155.0	0.42	25				
		157.2-158.07 Well laminated Tr-1% py S ₀ =60° to CA	84484	157.2	158.07	0.87	5				
		From 161.8-167.62 wk. fractures @ 0° to CA offsetting S ₀ & S ₁									
		162.58-162.92 20 cm vj @ 10° to CA 7 mm f.c.w.	84485	162.58	162.92	0.30	3				
			84486	162.88	163.37	0.59	5				
		163.37-164.06 central 10 cm sub-fault gouge	84487	163.37	164.06	0.69	1				
			84488	171.72	171.78	0.36	1				
171.78	172.93	Stained Porphyritic Andesite to f.d.k.									
171.78-172.93	TS	Sharp contacts steep to CA. R.K. contains ~ 20% pink irregularly shaped (rounded) (alt-d-stained) felds phenos? avg size ~ 3 mm. matrix green-grey semi hard (w/klf selected) matrix	84489	171.78	172.52	0.74	4				
			84490	172.52	172.93	0.41	2				

DIAMOND DRILL RECORD

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FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO		Ag	PPG		
172.93	184.1	<i>Apic Tuff 17p, (V10p) - locally agglomeratic Very well laminated - S₀ e 60° to CA. Reddish 1 cm wide and vary between green and beige chert nodules, conchoidal nodules and felsic nodules in agglomeratic sections (these may in fact be clasts > 1 cm but are rare)</i>								
		<i>@ 177.3 S₂ e 35° to CA dip 90° ccs</i>								
		<i>177-6014 r/c w/c to moderately broken</i>								
		<i>179.73-180.41 30% v/c x-coating S₁ e 30° to CA - host is mod sandstone, 3/8 f.d. py</i>								
		<i>183.17-184.1 2x 5 cm brecciated zones</i>								
184.1		<i>End of Hole ... Hoo stopped because water source dried up as did funds!</i>								