



42A115E0059 63.4115 HOYLE

010

PROGRESS REPORT
1982 PROGRAM

BELL CREEK PROJECT

PROJECT 045
MURPHY & HOYLE TOWNSHIPS
COCHRANE DISTRICT, ONTARIO

N.T.S. 42-A-11

CANAMAX RESOURCES INC.
TORONTO, ONTARIO

Jan. 1983

R.A. Knutson
Geologist

63.4115
DM 81-5-VV-137



42A11SE0059 63.4115 HOYLE

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PROGRESS REPORT-1982 PROGRAM
BELL CREEK PROJECT
MURPHY-HOYLE TWPS.
TIMMINS AREA
ONTARIO

SUMMARY

Exploration work in ~~Murphy and Hoyle~~ Townships by Amax, its predecessor Rosario Resources Inc., in partnership with DuPont Minerals Exploration Ltd. over the past 4 years has identified several auriferous environments, and located a number of gold deposits within them. Three distinct occurrences, namely the Marlhill, Bell Creek and North zones, have been explored in some detail. The Marlhill zone, about 300 feet west of a known showing, was evaluated by surface sampling and drilling. It is a quartz vein occurrence having fair grade, but exhibiting the erratic nature of quartz vein deposits. The occurrence requires more work both on strike and at depth.

The Bell Creek Zone was found in 1980, in the course of drilling electrical conductors, then traced along strike by drilling in 1981, and proved to consist of a number of horizons with concentrations at the east and west ends. The east zone was tested for continuity in 1982. Although more drilling is necessary to define Bell Creek - East Zone, it appears to have a potential of about 300,000 tonnes in the 4 gram per ton range to the depth drilled. The Bell Creek - West Zone is erratic and structurally complex and will require further definition at a later date.

The North Zone on which most work has been done, was discovered late in 1981 by a routine test of an induced polarization anomaly. Follow-up drilling early in 1982 confirmed the existence of mineralization and a total of 41 holes were drilled during the year on the zone and its extensions. The mineralized horizon has been traced for 820 metres in a west-northwest direction. Within a portion of the horizon extending 380 metres westward from Bell Creek, and to a depth of 220 metres, a gold deposit has been outlined having geological reserves of 426,000 tonnes grading 8.13 grams ton/Au. (Uncut and undiluted) Average width of the deposit is 3.87 metres.

The gold deposit is open to the east and west and at depth, however, to the east it is expected to terminate against a regional graphite unit within about 60 metres of the most easterly drill section. At the western end, the deposit narrows to about one metre and the grade decreases. Similarly the deeper holes suggest a decrease in the width of the zone, but the grades in these holes are about the average of the deposit or better.

In view of the encouraging results, a pre-feasibility study is being undertaken on the North Zone deposit, and a comprehensive geophysical program is planned on the adjacent properties followed by drilling of any targets generated, and continued drilling on the Bell Creek and Marlhill Zones. Further work on the North Zone in 1983 will depend on the recommendations of the pre-feasibility study.

CONCLUSIONS

Diamond drilling on the North Zone at Bell Creek has outlined a small gold deposit that merits further investigation by drilling, and possibly an underground examination. The deposit represents a concentration of gold on a stratigraphically controlled mineralized horizon consisting of quartz and sulphide mineralization in an envelope of carbonate alteration. The mineralized horizon has been traced for about 820 metres, and the North Zone deposit occupies some 380 metres westward from Bell Creek. Using a cut-off of 3 grams over 2 metres a geological reserve of 426,000 tonne grading 8.13 grams Au/ton (uncut and undiluted) has been outlined to a depth of 220 metres. Average width of the deposit is 3.87 metres.

Although some gaps exist between the 37 holes drilled into the deposit, the consistency and regularity of the mineralization indicate that underground exploration is a logical next step after limited additional drilling. At a vertical depth of 220 metres the deposit is similar mineralogically to the upper parts but, at 1.05 metres, is considerably narrower. From the drilling to date the deposit does not appear to have a plunge within the mineralized horizon but additional drilling, particularly at depth, might change the assumed configuration of the occurrence.

The Bell Creek zone differs little from the North Zone mineralogically, but has a lower overall grade. Very preliminary estimates put geological reserves at 300,000 tonnes grading 4 grams Au/ton, but more drilling is necessary to define the zone and determine the grade.

Two holes drilled on the Marlhill Zone confirmed the curvilinear nature of the vein, and one hole intersected fair gold values. More drilling is warranted to test the continuity of the vein.

Experience has shown that it is possible to detect potential gold bearing mineralization in the Bell Creek area by geophysical means. Selected areas on the extension of known mineralization, and on newly acquired ground, should be surveyed to outline possible targets.

RECOMMENDATIONS

A multiphase program has been recommended for the Bell Creek Project in 1983. The first phase, costing \$650,000 and commencing in January, will evaluate the outlying claims and further define the Bell Creek and Marlhill Zones. The program, consisting of geophysical surveys and diamond drilling will be completed by April 1983.

Later phases of the program will depend on recommendations of a pre-feasibility study currently underway. Further work will likely involve additional drilling in the North Zone including a pilot hole for a shaft. Environmental studies, work permit applications, route selection, road and powerline construction and collaring of a shaft could be undertaken in 1983, if underground development is found to be feasible. The cost of such a program could amount to 1.4 million dollars over and above the first phase expenditure.

INTRODUCTION

Exploration work over the past 4 years by Amax Minerals Exploration (and its predecessor Rosario Resources Inc.) in partnership with DuPont Canada Exploration Ltd., has identified several auriferous environments in Murphy and Hoyle Townships and located a number of gold deposits within them in the Hoyle Twp. sector. Drilling in one of the deposits, designated the North Zone, has outlined sufficient reserves to consider underground exploration. Several other mineralized zones merit tracing by geophysical methods and testing by drilling, and another deposit, the Bell Creek zone, requires further definition drilling. Depending on the outcome of a pre-feasibility engineering study, a program leading to commencement of underground investigation of the North Zone is recommended.

The 1982 program covered in this report was designated under the Ontario Mineral Exploration Program making all expenditures on preliminary explorations eligible for a 25% grant from the Province. The proposed 1983 program has been similarly designated but will include some advanced exploration, which is entitled to a 6.25% grant.

PROPERTY

The Bell Creek project comprises 148 parcels (40 acre claim equivalents) in the form of patented lots, staked and optioned claims in Hoyle, Murphy and Whitney Twps. The parcels lie within a rectangle bounded by Con IV on the North, lot 11 Murphy on the west, lot 8 Hoyle on the east and the south boundary of both Townships. In addition there are two claims in the N 1/4, lot 9 Con VI Whitney Twp. A list of claims and a map outlining their location are attached.

In 1982, 26 claims in 5 groups were staked in Murphy Twp. and added to the Bell Creek holdings. In addition 34 claims in 6 groups were optioned from Comstate Resources Ltd. in 1982. Airborne geological data revealed that the mineralized horizons did not strike into Comstate ground and the option was abandoned in December 1982.

ACCESS

The central part of the property is accessible by winter bush road from Hwy 101 at South Porcupine 5 miles to the south. The west claim groups are accessible from Hwy 655.

Choice of possible access roads to a shaft site include a route following the present bush road along the east side of the Bell Creek involving about 3 miles of road construction and a bridge a route from the southwest that would be longer but avoids a bridge, and a road from Owl Creek which would acquire close co-operation with Kidd Creek Mines.

PREVIOUS WORK

B. Rose (O.D.M. Vol. 33 Pt III, 1924) acknowledges reports of free gold associated with quartz veins in the S.E. part of Hoyle Twp. and reports seeing prospecting trenches during field work in 1923 but does not suggest when the work might have been done. The property was staked by Broulan Reef Mines Ltd. in 1958, and they carried out some diamond drilling and trenching on the Broulan-Marlhill zone.

In 1979 Rosario Resources Canada Limited optioned the Broulan and Marlhill ground and embarked on an exploration program in partnership with DuPont of Canada Exploration Ltd. The land was acquired as part of an ongoing program of exploring the western extension of Kidd Creek's Owl Creek zone begun in 1978. The program consisted of geophysical surveys (I.P. E.M. and Mag) followed by drilling. Between 1978 and 1982, 150 holes totalling 21,927 metres were drilled on various targets in the area. In 1982, 52 holes totalling 8530 metres were drilled.

GEOLOGY

The Bell Creek properties lie within an Archean volcanic complex of carbonated volcanic flows, volcanoclastics and chemical sediments. The rocks are poorly exposed and mapped, and may or may not be the folded equivalent of the productive Porcupine complex in Tisdale and Whitney Townships.

The sequence of rocks on the property, based on drill core, outcrop examinations, and geophysical data, is a series of weak to highly carbonated flows, fragmentals and tuffs, striking east-west and dipping steeply to the south. Geophysical data has disclosed, and drilling has confirmed, a number of narrow west-north-west trending pyritiferous-graphitic-argillite bands that appear to be sub-concordant to the stratigraphy, and provide useful marker horizons. The relationship of these units to the normal stratigraphy and the auriferous horizons has not been determined. To the north of our property the main volcanic sequence is flanked by a series of sediments consisting of conformable argillites and graphitic slates.

Carbonate alteration is widespread throughout the area, and affects most rock types to varying degrees. Because of the close association of carbonate with gold mineralization, the degree and type of alteration is particularly significant, and is a useful exploration guide. More detailed description of the gold-related carbonate alteration will be provided in the description of the mineralized zones.

Structurally the mineralized horizons appear to be strataform, striking slightly north of west and dipping 70-75° to the south. Some evidence of faulting is apparent in drill holes near Bell Creek, but lack of correlation from hole to hole suggests that faulting might parallel the north-south drill holes. There appears to be little or no offsetting in the area of the fault, but the wide spacing of the sections (+ 30 metres) may obscure subtle changes.

RESULTS OF 1982 PROGRAM

(a) FIELD WORK

Field work in 1982 consisted primarily of diamond drilling which was carried out continuously between January and October with stops for breakup in April and May, and the driller's vacation in July. Some maintenance was necessary on the existing winter road in addition to routine ploughing, and the bridge over Bell Creek was strengthened. During the summer months access was gained by Gotrack, and Timberjack for heavy equipment and helicopter for personnel and light gear.

Geological mapping was carried out on newly acquired claims, and some detailed mapping was done on the Marlhill showing. Reports covering these surveys are appended to this report. They are:

1. Lavery, M.E. Report on Geological Survey, Murphy Twp. Project 1202 Groups 03,10,12 & 13, June 1982.
2. Lavery, M.E. Report on Geological Survey Murphy & Hoyle Twps., Project 045 Group 04, October 1982.
3. Philipp, A. and Harron, G. Detailed Geology of Marlhill Trenches with map, August 1982.

(b) DIAMOND DRILLING

A total of 8530 metres were drilled in 1982 in 52 holes. Diamond drill logs for each hole are attached, along with cross sections. The cross sections may show new holes from the current drilling program in the Bell Creek zone but logs are unavailable.

The most significant results of the 1982 program were the development of a potential ore deposit on the North Zone, the establishment of continuity on the eastern portion of the Bell Creek Zone, and the extension of the Marlhill deposit to the northwest.

1. North Zone

The North Zone consists of two sub-parallel mineralized bands, designated the Upper and Lower Horizons, roughly 25 metres apart striking west-north-west and dipping 75° to the south. Host rocks of the Upper horizon are green fragmental tuffs, narrow basalt flows, and fine weakly graphitic tuff beds. The Lower Horizon is hosted by fine-grained graphitic argillite thought to be a fine grained tuff or ash.

The Upper horizon contains the best gold values and widths, and the mineralization is a concentration of pyrite, pyrrhotite, quartz veining and accessory chalcopryrite, sphalerite, arsenopyrite and tourmaline, within a carbonate envelope. The carbonate is calcitic and ranges from tan to grey in colour. Gold occurs primarily in free form usually with quartz, but occasionally in carbonated host rocks. About 30% of the gold is thought to be tied up in the sulphides. A persistent feature of the mineralized zone is a cherty quartz marker vein .1 to 1.0 metre wide that usually occurs near the top of the unit.

The mineralized zone averages about 4 metres in width but the enclosing carbonate envelope can vary from a metre or less to 20 metres in width. Aside from free gold itself the best indicator of gold in all of the Bell Creek deposits is the presence of arsenopyrite.

The occurrence has been tested for a length of 380 metres and to a depth of 220 metres and is open along strike and down dip. Of thirty-seven holes drilled into the Upper Horizon, all encountered the mineralized zone, and 27 returned values greater than 3 grams over 2 metres for an overall tenor of about 8.0 grams/ton. Drill logs cataloguing individual assays for each drill hole are appended to this report.

Like the Upper, gold mineralization in the Lower Horizon is associated with sulphides and quartz veining, but contains abundant graphite and less carbonate. The tenor of mineralization in the Lower Horizon is in the 3 to 4 gram per tonne range over widths from 1 to 7 metres. Other parallel mineralized zones occur in hanging wall of the North Zone. Although generally narrow, these zones can show reasonable continuity along strike, and might provide some ore if the North Zone is viable, despite their relatively low grade.

2. Bell Creek

Like the North Zone, the Bell Creek zone contains a number of mineralized horizons. The host rocks are carbonated tuffs, fragmental flows and komatiitic basalts. The various horizons are sub-parallel, about 25 metres apart, strike east-west, and dip to the south at 70°. Gold mineralization occurs in discrete zones of pyrite and quartz veins with accessory chalcopyrite, sphalerite, arsenopyrite, and tourmaline within a carbonate envelope. The carbonate is ankerite (ferro-dolomite) with calcite and graphite, ranging in colour from green tan to grey. Little free gold is seen in the core and it is assumed the bulk of the gold is tied up in the sulphides.

The density of drilling is not sufficient to establish continuity of the various mineralized horizons, but the potential of the best explored part of one zone appears to be in the order of 300,000 tonnes grading about 4 grams gold per tonne over a width of about 4 metres. This shoot has a length of about 150 metres and a depth of 175 metres.

3. Marlhill

The Marlhill deposit differs from the above both in setting and the mode of occurrence of the gold. The host rocks at Marlhill are carbonated pillow basalts, and gold occurs in the free form in a series of quartz veins having a saddle-vein configuration that both parallels and cross cuts the basalt. In general carbonate alternation becomes more intense near the veins where the rock is grey to tan in colour and contains cubic pyrite.

Two holes, 15 metres apart, drilled in 1982 on the northwestern extensions of the main Marlhill vein confirmed continuity of the vein. One hole yielded 35.42 grams over 0.9 metres, and the second 1.25 grams over 1 metre which illustrates the erratic nature of the zone.

(c) RESERVE POTENTIAL

Sufficient continuity exists from hole to hole down dip, and from section to section along strike to calculate a geological reserve potential on the North Zone. Calculations have been made using a number of different parameters, and the results are shown in an attached memorandum by the writer dated January 11, 1983. In the calculations the grade obtained in each hole was assigned an area of influence over a rectangle both longitudinally and in section extending halfway to the next hole, or less if the gap was excessive. The following table summarizes the geological reserve (Cut-off, 3 gms Au/Ton over 2 metres core length).

<u>Parameter</u>	<u>Metric Tonnes</u>	<u>Grade</u>
1. Undiluted		
Uncut	425,588	8.13 gms
Cut to 1 oz.	425,588	6.32 gms
2. Diluted (15% @ 0.22 mg Au/Ton)		
Uncut	489,387	7.10 gms
Cut to 1 oz.	489,387	5.23 gms

All assaying was done by Swastika Assay Laboratories, Swastika Ontario. A memo prepared by Mr. Gordon Yule dated December 10, 1982 describing the procedure used by Swastika is attached. A number of samples were re-run in order to establish the reliability of the assays. In addition the total metallic assay technique, which measures total gold present, was used on some samples. Results of these tests, as well as a comparison with original assays are provided in an attached memorandum (G. Lauzier) These results indicate that the original assays may be as much as 8% low.

PROPOSED 1983 PROGRAM

The proposed 1983 Bell Creek exploration program will have a 3 pronged thrust. These are (a) exploration of outside properties, (b) fill-in and deep drilling on the North & Bell Creek zones, and (c) engineering studies and preparation for underground examination of the North Zone.

(A) OUTSIDE PROPERTIES

Outside properties refer to all groups other than the Broulan group containing the North and Bell Creek zones. These are:

1.(a) Allerston Property (8 claims)

Drilling in 1982 demonstrated the continuity of the North Zone 250 metres west onto the Allerston claims. Gold values up to 1.5 grams per ton over one metre were encountered.

Detailed magnetic and induced polarization surveys, followed by 4 diamond drill holes (600 metres) are planned to trace the North Zone further west.

1.(b) Rose Option (4 claims)

The Rose Option lies to the west of the Allerston claims and will be explored in conjunction with them. Line cutting, IP and magnetic surveys, and 2 holes (300 metres) are needed to evaluate the claims.

2. Stringer-Marlhill (6 claims)

Detailed induced polarization and magnetic surveys are planned to test the gap between the Stringer and Marlhill occurrences. Reconnaissance surveys in the past have outlined targets, but more precision is required before drilling, particularly in the area of Bell Creek where flooding prevented full coverage in the past. Two or three drill holes totalling 450 metres are planned to test the horizon.

3. Marlhill-Allerston (6 claims)

Like the western extension of the Marlhill Zone the eastern extension has not been adequately tested, and it is proposed to survey the area north of the graphitic marker with IP and magnetic equipment to outline targets. Initially 2 holes (400 metres) are planned to test the potential of the group.

4. Chartrand (4 claims)

This group lies at the west end of the Bell Creek properties and was acquired because a promising airborne conductor occurs on it. Limited ground geophysics and one hole (150 metres) will adequately test the conductor.

5. Wetmore (10 claims)

This group was acquired in 1982 on the basis of geological similarity to the Bell Creek zone. The claim group lies immediately north of a major carbonatized ultramafic belt similar to the outcrops south of the Bell Creek zone, and mineralization will be sought north of this unit as at Bell Creek.

Magnetic, electromagnetic and induced polarization surveys will be used to outline targets, and two holes (400 metres) have been allotted to follow up the results of the surveys.

Table of Work on Outside Properties

<u>Property</u>	<u>L.C.</u> km	<u>I.P.</u> km	<u>Mag</u> km	<u>Type of Work</u>		<u>Metres</u>
				<u>E.M.</u> km	<u>D.D.H.</u>	
Allerston	6	7	6	-	4	600
Rose	6	6	6	-	2	300
Chartrand	1	-	1	1	1	150
Wetmore	9	8	8	4	2	400
Stringer]						
-Marlhill]	2	3	6	-	2-3	450
Marlhill]						
-Allerston]	6	6	6	-	2	400
	<u>30</u>	<u>30</u>	<u>33</u>	<u>5</u>	<u>13</u>	<u>2,300</u>

B. NORTH & BELL CREEK ZONE DRILLING

1. North Zone

It is estimated that about eight fill-in holes totalling 2800 metres will be required to provide absolute confidence in the outline of the North Zone. As these holes would not add materially to the reserves, six deep holes totalling 2100 metres are planned to intersect the mineralization at about 260 metres below surface. In addition a pilot hole to 300 metres on the shaft site is planned.

2. Bell Creek - East Zone

A 10 hole, 7500 metre program is planned to outline areas of higher grade gold mineralization within the Bell Creek zone.

3. Broulan - Marlhill Zone

Five holes totalling 500 metres are proposed to continue tracing the Marlhill zone to the northwest and to depth.

TABLE OF WORK ON DEPOSITS

<u>Occurrence</u>	<u>D.D.H.</u>	<u>Metres</u>
North Zone a) fill-in holes	8	2800
b) deep holes	6	2100
c) shaft site	1	300
Bell Creek East	10	1500
Broulan-Marlhill	5	500
	<hr/>	<hr/>
	30	7,200

C. MINING STUDIES

In preparation for an underground examination and sampling program on the North Zone engineering studies and preparatory work has to be undertaken. The following work will be undertaken early in 1983 preparatory to beginning underground work in the fall.

- Photographic survey to outline best access for road and power line
- Directional surveying on 5 to 6 holes to determine their deflection
- Grouting of all surface holes
- Ground water survey
- Rock mechanic testing
- Geostatistical analysis
- Engineering design
- Metallurgical testing
- Environmental studies
- Permit requirements
- Road construction
- Power line requirements
- Commencement or road construction
- Preparing shaft site, collaring shaft & start of shaft sinking

Field work will begin early in 1983. The scale of the eventual program will depend on the results obtained in the drilling, the results of engineering studies, the speed at which permits are granted, and the availability of qualified personnel, contractors and equipment. The program, as presented, assumes that the North Zone proves to be a viable deposit and anticipates no procedural delays.

COST ESTIMATES FOR 1983 PROGRAM

A. PRELIMINARY EXPLORATION

1. Geophysical & Geological Surveys
 - Line Cutting - 30 km X \$200 = \$6,000
 - Induced Polarization 30 km X 600 = \$18,000
 - Magnetometer 30 km X 100 = 3,000
 - Electromagnetic 5 km X 200 = 1,000
 - Geological Surveys 30 km X 400 \$12,000

\$40,000
2. Diamond Drilling
 - (a) Outside Properties - 2300 metres
 - (b) North Zone - 5200 metres
 - (c) Bell Creek East - 1500 metres
 - (d) Broulan Marlhill - 500 metres

9500 metres

All-in-costs estimated @ \$95.80 X 9500 = \$910,100
3. Metallurgical Tests

Metallurgical tests to determine recoveries will be conducted on drill core samples 50,000

Preliminary Exploration Total \$1,000,100

B. ADVANCED EXPLORATION

1. Mine Planning
 - Airphoto surveys, mosaics \$ 5,000
 - Gyro log survey of 5-6 holes 5,000
 - Grout all surface holes 15,000
 - Ground water survey & pump test 10,000
 - Rock mechanic testing 3,000
 - Geostatistical analysis 15,000
 - Engineering design plant
 - Mine layout, contract bid proposal (shaft and related surface facilities), equipment specifications and costing, etc.
 - This item should cover expenses of retaining engineering company as well as in-house Amax charges \$ 100,000

2. Environmental Studies

Determination of, and application for, permits
to proceed with road construction, mine
development and site reclamation \$ 10,000

3. Road and Bridge Construction

Estimated cost of an access road and
bridge across Bell Creek \$ 200,000

4. Underground Exploration

All-in cost of site preparation
building mining plant, collaring and
sinking shaft-\$8,200/metre 100 metre
completion in 1983 \$ 820,000

B. Total Advanced Exploration \$ 1,183,000

A. Total Preliminary Exploration 1,000,100

\$ 2,183,100

Respectfully submitted



R.A. Knutson

RAK:gh

APPENDICES 1, 2, 3, 6, 7 and 8

BELL CREEK PROJECT, Ontario

January 1983

R.A. Knutson

Appendices 4 & 5
are Geological
Reports appended
to the back of
this report

63.4115.

RA Knutson

DM 81-5-JV-137

PROJECT: 54045 - BellCreek Joint Venture (Claims held as of Dec. 31, 1982)

045-01
Township

Hoyle	N $\frac{1}{2}$ Lot 11, Con. 1	P. 15504
"	N $\frac{1}{2}$ Lot 10, Con. 2	P. 13435
"	S $\frac{1}{2}$ Lot 9, Con. 2	P. 13436
"	S $\frac{1}{2}$ Lot 10, Con. 2	L. 168
Hoyle	N $\frac{1}{2}$ Lot 9, Con. 2	L. 100253
Murphy	S $\frac{1}{2}$ Lot 2, Con. 1	P. 1487
Hoyle	N $\frac{1}{2}$ Lot 11, Con. 3	P. 10568
"	N $\frac{1}{2}$ Lot 12, Con. 2	P. 9083
Hoyle	N $\frac{1}{2}$ Lot 10, Con. 1	P. 460
Murphy	S $\frac{1}{2}$ Lot 1, Con. 2	

P. 25894
P. 25895
P. 25896
P. 25897
P. 25890
P. 25891
P. 25892
P. 25893

Whitney (P. 25241
(P. 25242)₁₀

045-02

Hoyle

P. 515775
P. 515776
P. 515777
P. 515778
P. 515779
P. 515780
P. 515781
P. 515782₈

045-03

Murphy

P. 515785	P. 516152
P. 515786	P. 516153
P. 515787	P. 516154
P. 515788	P. 516155
P. 515789	P. 516156
P. 515790	P. 516157
P. 515791	P. 516158
P. 515792	P. 516159
P. 515793	P. 636457 ₂₇
P. 515794	
P. 516309	
P. 516310	
P. 516311	
P. 516312	
P. 516313	
P. 516314	
P. 516315	
P. 516316	

045-04

Murphy &
Hoyle

P. 516562	P. 540402
P. 516563	P. 540403
P. 516564	P. 540404
P. 516565	P. 540405
P. 516572	P. 546519
P. 516573	P. 546522
P. 516574	P. 546523
P. 516575	P. 546524
P. 525270	P. 546525
P. 525271	P. 546526
P. 525272	P. 546527
P. 525273	P. 546528 ₃₂
P. 525274	
P. 525275	
P. 525276	
P. 525277	
P. 525303	
P. 525304	
P. 525305	
P. 525306	

045-05

Murphy

P. 508687
P. 508688₂

045-06

Murphy

P. 641576
P. 641577
P. 641578₃
P. 8122 (Patent)

045-07

Murphy

P. 641546
P. 641579
P. 641580
P. 641585₄

045-08

Murphy

P. 641615
P. 641616
P. 641617
P. 641618
P. 641619
P. 641620₆

045-09

Murphy

P. 641790
P. 641791
P. 641792
P. 641793₄

PROJECT:54045 - Bell Creek Joint Venture (continued)

045-10

Murphy

P.641625

P.641626

P.641778

P.641779

P.641780

P.641781

P.641788

P.641789

/8

Total 104 - 40 acre claims } 148 - 40 acre claims
11 - 160 acre parcels }

List of Claims optioned from Comstate Resources Ltd.
 The Comstate option was terminated on Dec. 1982.

APPENDIX-2

AMAX-DUPONT BELL CREEK JOINT VENTURE
COMSTATE RESOURCES LTD. - AMAX OPTION

CLAIMS

<u>Claim No.</u>	<u>Township</u>	<u>Approx. Acres</u>	<u>Recorded Owners</u>	<u>Expiry Date</u>
P.393143	Murphy	40	D.R. Pyke	July 16, 1982
P.393161	"	"	"	"
P.393162	"	"	"	"
P.393163	"	"	"	"
P.393164	"	"	"	"
P.393165	"	"	"	"
P.393736	"	"	"	"
P.529939	"	"	"	Feb. 11, 1983
P.529940	"	"	"	"
P.529941	"	"	"	"
P.529942	"	"	"	"
P.529943	"	"	"	"
P.529944	"	"	"	"
P.529945	"	"	"	"
P.529946	Murphy	40	D.R. Pyke	Feb. 11, 1983
P.529947	"	"	"	"
P.529948	"	"	"	"
P.529949	"	"	"	"
P.529950	"	"	"	"
P.594595	"	"	"	Nov. 12, 1982
P.594596	"	"	"	"
P.594597	"	"	"	"
P.594598	"	"	"	"
P.617501	"	"	"	Apr. 22, 1983
P.617502	"	"	"	"
P.617503	"	"	"	"
P.617504	"	"	"	"
P.617505	"	"	"	"
P.617506	"	"	"	"
P.617507	"	"	"	"
P.617508	"	"	"	"
P.619352	"	"	"	Aug. 31, 1982
P.619353	"	"	"	"
P.619354	"	"	"	"
<u>34</u>	<u>TOTAL</u>	<u>1,360</u>		

File

A. Philipp

MARLHILL-BROULAN REEF GEOLOGICAL MAP

NOTES UNDER GEOLOGY

All the principal auriferous quartz veins definitely crosscut bedding and schistosity and dip between 50-70° to the east. Silicification, as narrow quartz stringers or veins, usually show on the higher west wall of the crosscutting veins. These narrow veins parallel bedding and are oriented at a large angle to the main veins.

Exposed in the higher footwall side of the main 'M Vein' in Trench #3 as well as in the drill cores from both walls of the vein, are occurrences of a fragmental rock in close proximity with the vein. These fragments are now thought to have been produced during the emplacement of this vein rather than representing a separate fragmental host horizon following some deformed anticlinal stratigraphy.

The only safe and measurable plunging features which can be seen in the Marlhill area are in relation with pillows (which resemble boudins in schistose rock) and which plunge steeply to the east at 80°. All pillows seen show tops to the south with the exclusion of those questionable few in Trench #8.

Mapping By: G. Harron
A. Philipp

August 1982

c.c. Germain Lauzier
Mitch Lavery

Files

R. A. Knutson

January 11, 1983

Bell Creek - North Zone Geological Reserve Estimate

An estimate has been made of the geological reserves of the Upper Horizon North Zone deposit, Bell Creek. Twenty seven intersections were used in the calculations. (Holes 119, 117, 115, 114, 120, 113, 118, 132, 101, 122, 148, 149, M81-45, 147, 133, 123, 127, 134, 151, 146, 125, 141, 124, 135, 143, 129, 142.) A cutoff of 3.00 grams over 2 metres (core length) was used. True widths, dilution, and dilution grade were calculated for each intersections. The results are as follows:

A. UNDILUTED (Widest intersections)

	<u>Metric</u> <u>Tonnes</u>	<u>Grade</u>	<u>Short</u> <u>tons</u>	<u>Grade</u>
1. Uncut Grade	425588	8.13 gms.	469131	0.237 opt.
2. Cut to 1.0 oz.	425588	5.99 gms.	469131	0.175 opt.
3. Cut to 1.25 oz.	425588	6.32 gms.	469131	0.184 opt.

B. UNDILUTED (Higher Grade Intersections Hole 134 & 146)

1. Uncut grade	388862	8.78 gms.	428526	0.256 opt.
2. Cut to 1.0 oz.	388862	6.43 gms.	428526	0.187 opt.
3. Cut to 1.25 oz.	388862	6.80 gms.	428526	0.198 opt.

C. DILUTED (Widest Intersection) 15% @0.22 gms./tonne

1. Uncut Grade	489387	7.10 gms.	539305	0.207 opt.
2. Cut to 1.0 oz.	489387	5.23 gms.	539305	0.153 opt.
3. Cut to 1.25 oz.	489387	5.23 gms.	539305	0.161 opt.

D. DILUTED (Higher Grade Intersections in holes 134&146)

1. Uncut Grade	446342	7.68 gms.	491868	0.223 opt.
2. Cut to 1.0 oz.	446342	5.64 gms.	491868	0.164 opt.
3. Cut to 1.25 oz.	446342	5.96 gms.	491868	0.173 opt.

E. Average True Width

- a. Undiluted - Widest intersection - 3.87 m. (12.7')
- b. Undiluted - Higher grade intersection - 3.87 m. (11.6')
- d. Diluted - Widest intersection - 4.40 m. (14.4')
- c. Diluted - Higher grade intersection - 4.04 m. (13.3')

F. Potential

Considering the full vertical range down dip of 216 metres (708.5 feet) the potential of the deposit is 2266 tonnes per vertical metre (76/tons per vertical foot). However more accurate estimate of the potential would be to consider only that portion of the deposit that has been drilled on 30 metre centres. Thus for a vertical depth of 150 metres the potential is 2694 tonnes per vertical metre (905 tons per vertical foot).

R. A. Knutson

RAK:jg

MEMORANDUM

TO: Germain

FROM: Gord

SUBJECT: SWASTIKA LABORATORIES ASSAY PROCEDURE

DATE: December 10, 1982

PREPARATION

"Samples are crushed through a #1 Woodstock crusher and further reduced to approximately 6-mesh using a Sturtevat Roll. The rolls are then cleaned with a combined wire brush and air jets. Samples weighing less than 1 pound are crushed through a Sturtevant Roll Jaw crusher. A Jones Riffle is used to cut a 400 gram portion for pulverizing. When requested the reject portion is bagged and stored.

After reducing to nominal 100-mesh with a Braun pulverizer, the samples are thoroughly blended and sent to the fire assay department."
(Lebel, 1980)

FIRE ASSAY

"A 0.5 assay ton portion (14,538 grams) is used for fire assaying. This process results in a particle of gold which in the normal assay method, is weighed on a Huesser assay balance with a sensitivity of 0.0025 miligrams at best or 0.005 ounces per ton." (Lebel, 1980)

ATOMIC ABSORPTION

"To lower detection limits for geochemical work or where required, the gold particle or doré bead is dissolved and determined by Atomic Absorption Spectrophotometry." (Lebel, 1980)

Using pleirs, the 0.5 mg doré bead is picked off the fused button and transferred to #04 loors parting cups in a metal tray. The bead is dissolved by adding approximately 4 mls of parting acid (1 part nitric acid and 7 parts water) and then taken to dryness over a boiling water bath. Then 5.4 mls of 40% aqua regia is added and each cup covered and cooked for twenty (20) minutes then cooled."

"The concentration of gold now in solution is measured in micrograms/ml by Atomic Absorption Spectrophotometry relative to standards made from proof gold.

This dissolved gold after the collecting of previous metal with a fire assay fusion, should not be confused with the Ketone Extraction - A.A. methods." (Lebel, 1980)

CHECKS

"Constant checking is done by comparing the weight finish against the A.A. finish and also by the assaying of standard samples such as Canmet MA-1 and Amax's Au7 and Au9. Repeat or check samples are done regularly. Results from replicate determinations using both methods of "finish" agree favourably. By far, the greatest spreads occur when free gold is present making sampling difficult." (Lebel, 1980)

ASSAY RESULTS REPORTED

"With a 0.5 assay ton sample and a final volume of 5.0 mls, the instrument reading in micrograms/ml are multiplied by a factor of 0.01 to give ounces per ton, or by 0.34286 to give ppm (parts per million)." (Lebel, 1980)

To check the homogeneity of gold mineralization, additional pulps are taken from the reject. Appendix I illustrates this multiple pulp determination utilized on several Amax gold projects.

REFERENCES

1980 - 1981: Lebel, G Personnel communications for Swastika Laboratories. Letters and personnel communications between Mr. G. Lebel of Swastika Laboratories and Amax personnel. November 1980 to January 1981.

Timmins, Ontario.
December, 1982

Submitted by,
G. Yule
Geologist

MEMO: To File
 FROM: G. Lauzier
 SUBJECT: Comparison of initial standard (S) assay results with re-runs of combined pulps and rejects - subjected to the pulp and metallic separation (P.&M.S.) analytical technique.

<u>HOLE NO.</u>	<u>SAMPLE NO.</u>	<u>FROM</u>	<u>TO</u>	<u>ASSAY RESULTS</u> <u>Au g/t</u> <u>(P. + M.S.)</u>	<u>PREVIOUS RESULTS</u> <u>Au g/t</u> <u>(S)</u>
112	D0381	61.0	62.0	1.34	1.26
113	D0407	72.0	73.0	1.75	1.53
	D0408	73.0	74.0	6.87	7.54
	D0409	74.0	75.0	0.65	0.61
	D0410	75.0	76.0	3.98	4.39
	D0411	76.0	77.0	2.61	2.58
	D0412	77.0	78.0	5.07	4.71
	D0413	78.0	79.0	10.66	8.48
	D0414	79.0	80.0	3.22	1.97
114	D0444	82.0	83.0	1.54	0.61
	Do448	86.0	87.0	3.46	3.73
	Do449	87.0	88.0	3.36	3.15
	D0450	88.0	89.0	2.98	2.72
	D0451	89.0	90.2	18.03	15.53
115	D0471	81.0	82.0	2.02	1.13
	D0472	82.0	83.0	5.55	5.76
117	D0499	62.0	63.0	5.31	10.15
118	D0533	138.0	138.7	41.49	30.03
	D0534	138.7	139.5	10.70	10.63
119	D0560	48.3	49.3	6.10	5.78
120	D0591	130.7	131.7	6.17	6.14
121	D0886	94.7	96.0	3.46	3.47
122	D0946	140.0	141.0	21.02	37.12
	D0947	141.0	142.0	2.81	1.96
123	D0988	143.5	144.5	25.95	25.20
	D0993	148.5	149.5	127.30	105.12
	D0996	151.5	152.5	1.30	1.32
124	D1060	78.0	79.0	6.75	5.96
125	D1095	130.0	131.0	0.86	0.79
	D1107	142.0	143.3	70.66	70.47
	D1115	150.2	151.2	4.53	4.30

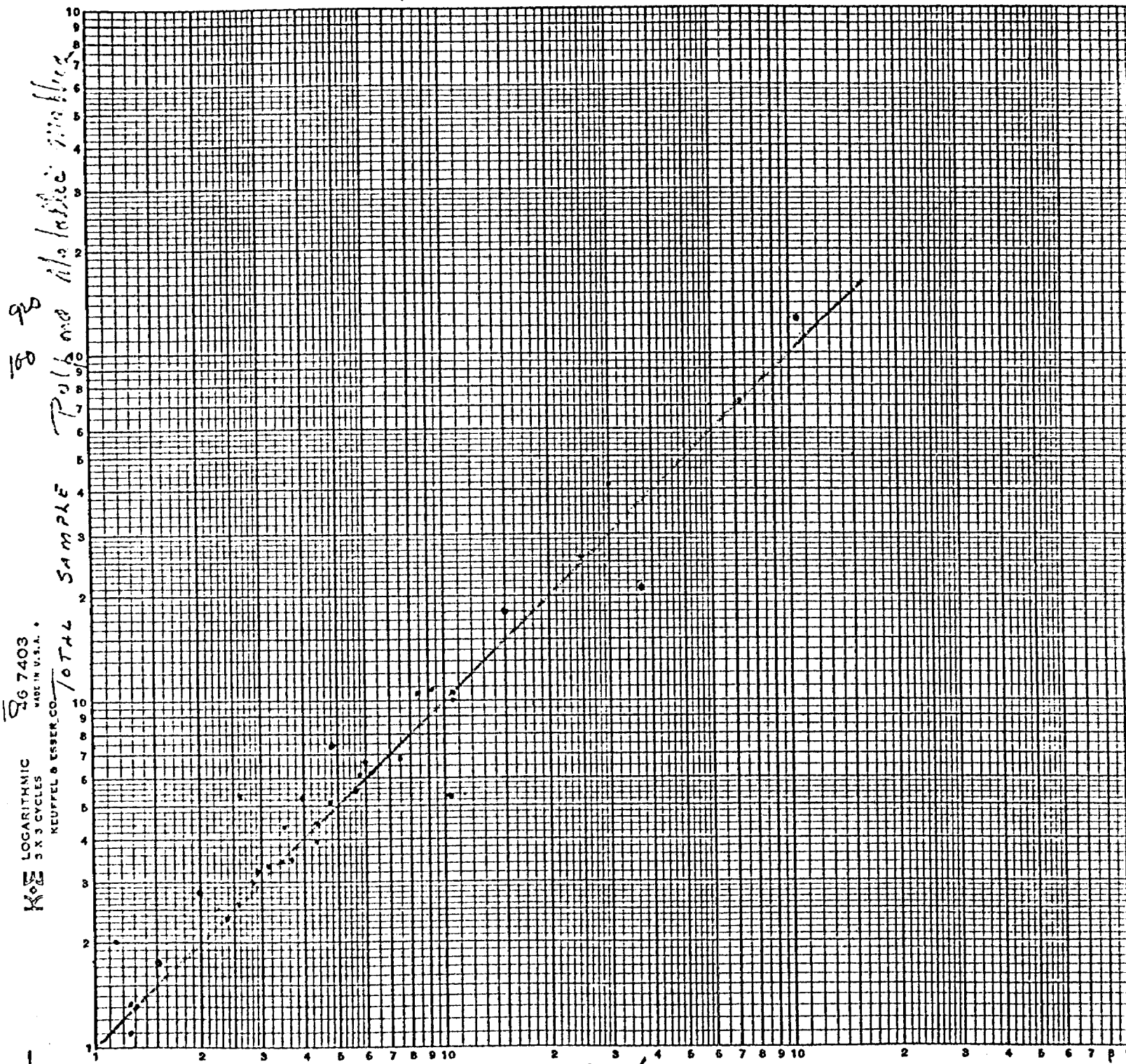
<u>HOLE NO.</u>	<u>SAMPLE NO.</u>	<u>FROM</u>	<u>TO</u>	<u>ASSAY RESULTS</u> <u>Au g/t</u> <u>(P. + M. S.)</u>	<u>PREVIOUS RESULTS</u> <u>Au g/t</u> <u>(S.)</u>
127	D1182	162.0	163.0	1.47	0.57
	D1189	179.3	180.0	2.40	2.38
129	D0712	136.2	137.2	5.42	2.59
134	D1263	138.0	139.0	9.19	10.90
	D1264	139.0	140.1	4.35	3.47
	D1296	224.5	225.5	1.13	1.37
	D1297	225.5	226.5	2.54	2.22
	D1298	226.5	227.5	5.38	3.96
	D1299	227.5	228.3	10.01	10.63
	D1300	228.3	229.3	7.54	4.82
42 Samples					
TOTAL:				<u>457.17</u>	<u>427.12</u>
AVERAGE:				10.885	10.169

Samples were assayed using the pulp and metallic method. The original pulp and all remaining rejects were combined and treated as one sample.

The pulp and metallic method show results 7% higher than the standard assay method. The following graph illustrates that it is also true for all samples.

G. Lauzier

Beal creek (North Zone)



Standard method (puls. no accepted 1-4 times)

10 100 gpa

REPORT ON A
GEOLOGICAL SURVEY

MURPHY TOWNSHIP, ONTARIO

PROJECT 1202
GROUPS 03, 10, 12 and 13

NTS: 42-A-11

AMAX MINERALS EXPLORATION
Timmins, Ontario

June 1982

M. E. Lavery
Geologist

~~Appendix 4~~ 1

81-5-16-137

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MAP #2	GEOLOGICAL SURVEY - GROUPS 1202-10 & 13	- 1:5000
MAP #3	GEOLOGICAL SURVEY - GROUP 1202-12	- 1:5000

SUMMARY

During June 1982, geological surveys were completed on twenty-three (23) claims in three groups and part of a fourth group, within south central Murphy township, District of Cochrane, Ontario.

The claim groups are completely covered by overburden which varies from sand, gravel and boulders on the Murphy esker to muskeg and spruce bog in the lower areas flanking the esker.

The bedrock geology underlying the claim groups is interpreted from previous drilling and geophysics to be mafic to intermediate volcanics of the lower formations of the Tisdale Group and sediments of the lower formations of the Porcupine Group.

CONCLUSIONS AND RECOMMENDATIONS

The geological surveys confirmed that no outcrop exposure exists on the claim groups leading to the following recommendations:

1. All previously completed airborne and ground geophysical data should be re-assessed in an attempt to locate structural targets which may be proximal to potentially favourable areas for gold deposition.
2. All known geological data should be compiled for the southern part of Murphy township to assist in the location of target areas.
3. Priority rating of located target areas should be followed up with an integrated program of line-cutting, proton magnetometer, electromagnetic and possibly induced polarization surveys to further define drill targets.
4. Diamond core drill evaluation of defined targets.

INTRODUCTION

Detailed geological surveys were completed on twenty-three (23) claims contained in three groups and part of a fourth group, within Murphy township during June 1982. The claim numbers are: P-393148, P-393161 - 393165 inclusive, P-393736, P-594595 - 594598 inclusive, P-619352 - 619354 inclusive, P-641625 - 641626 inclusive, P-641778 - 641781 inclusive, P-641788 - 641789 inclusive and P-636457, containing approximately 368 hectares of land. All the claims are recorded in the name of Amax of Canada Limited.

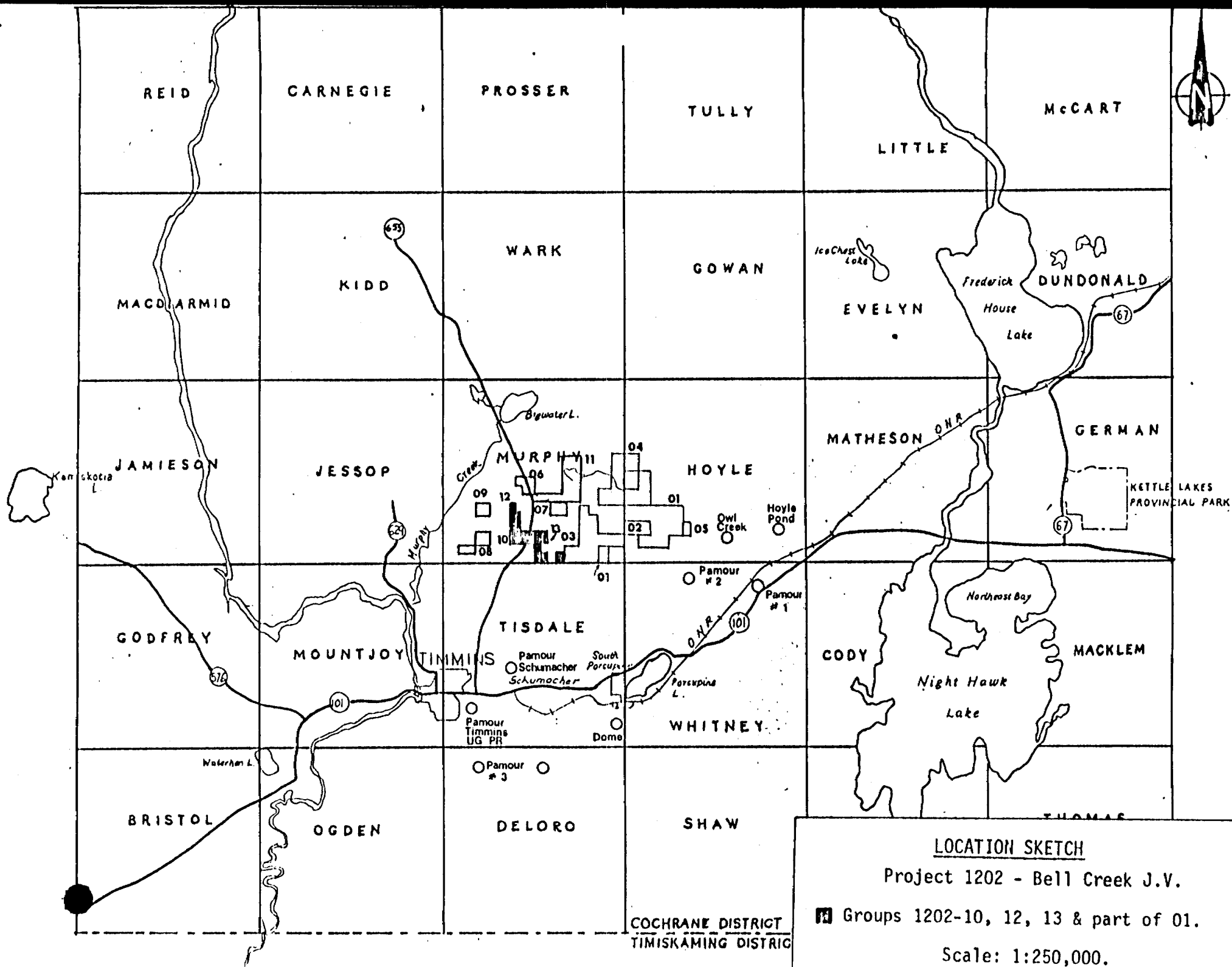
The purpose of the geological survey was to locate and map any outcrop, which exists on the claim groups. Special attention was paid in areas where electromagnetic conductive zones were located by a previously completed airborne survey.

The surveys are the initial phase of a multi-phase exploration program designed to locate economically exploitable ore deposits.

LOCATION AND ACCESS

The surveyed claim groups occupy parts of Lots 5, 6, 7 and 8, concessions I and II within south-central Murphy township, District of Cochrane, Ontario, approximately 12 kilometers north-north-east of the Timmins City centre.

Access onto the claim groups is possible by motor vehicle north from Highway 101 along Highway 655 and then either on foot for a short distance along well cut out concession lines or along a good gravel road which follows a natural gas pipeline south-eastward. Figure 1 shows the ease of access onto these claim groups.



LOCATION SKETCH

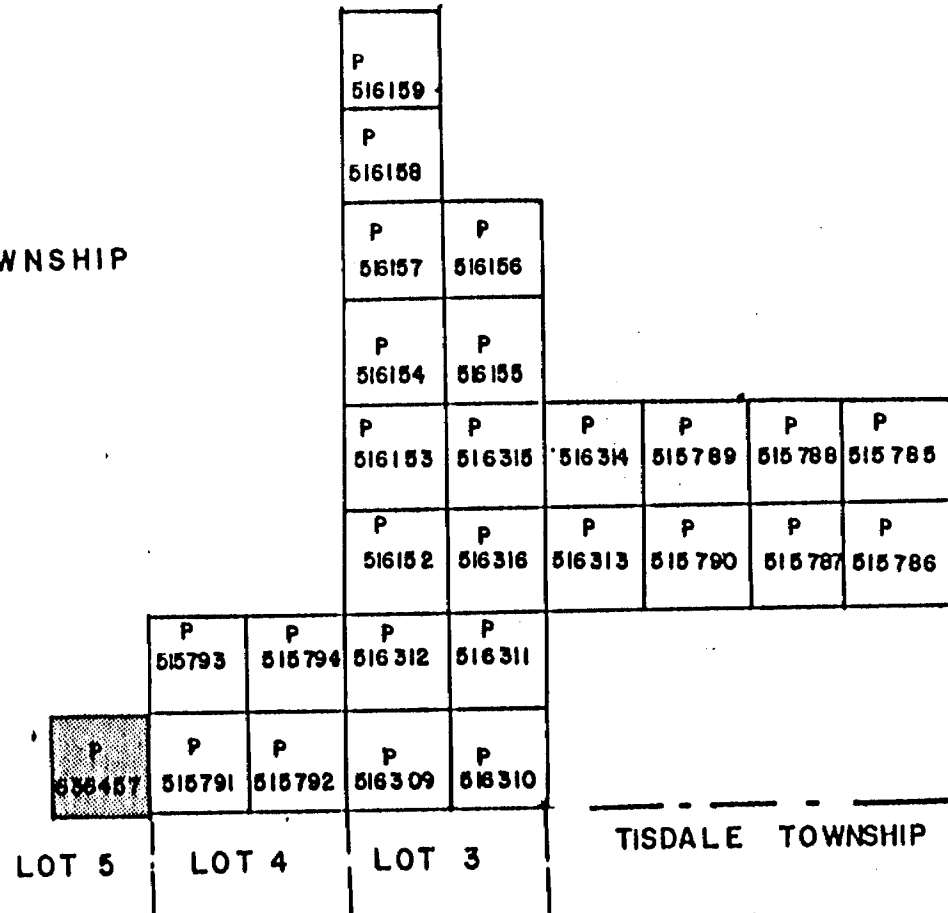
Project 1202 - Bell Creek J.V.

■ Groups 1202-10, 12, 13 & part of 01.

Scale: 1:250,000.

MURPHY TOWNSHIP

CON II



CON I

TISDALE TOWNSHIP

FIGURE 2

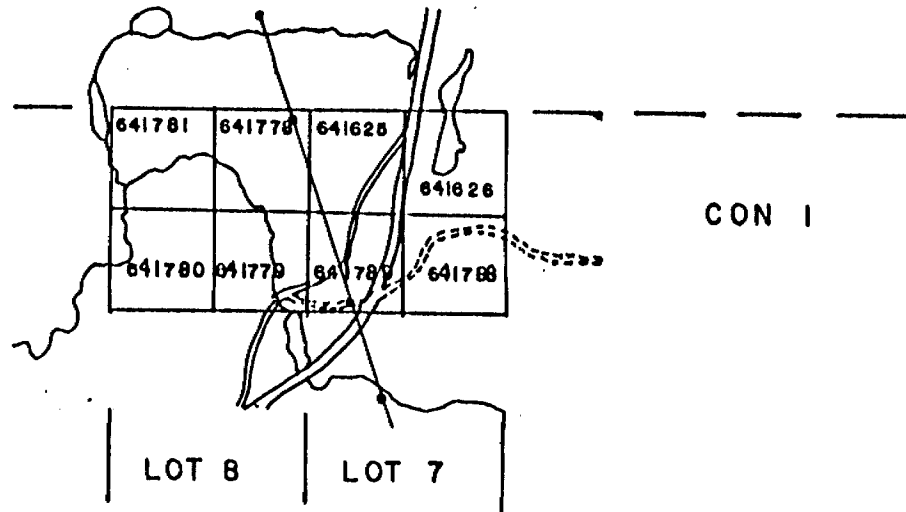
CLAIM MAP
Project 1202-03

BELL-3
Murphy Township

Scale: 1" = 1/2 mile



MURPHY TOWNSHIP



CON 1

LOT 8

LOT 7

FIGURE 3

CLAIM MAP
Project 1202-10
MURPHY-6
Murphy Township

Scale: 1" = 1/2 mile

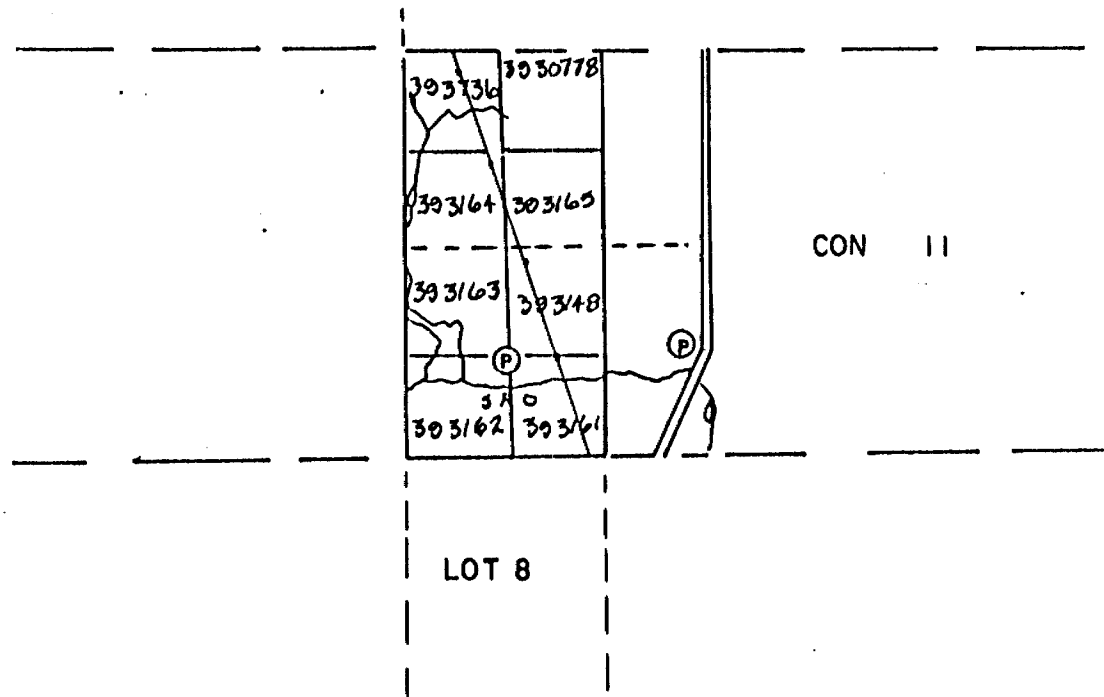
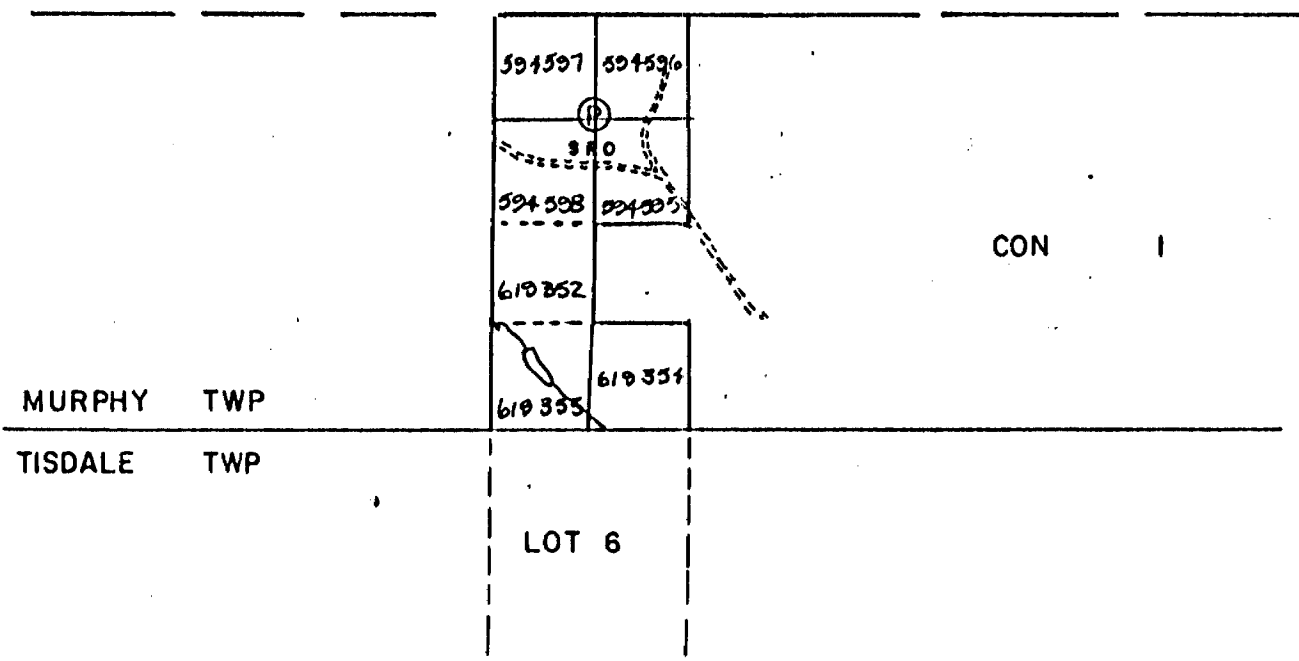


FIGURE 4

CLAIM MAP
Project 1202-12
MURPHY-3
Murphy Township
1" = 1/2 mile



CLAIM MAP
Project 1202-13
MURPHY-9
Murphy Township
1" = 1/2 mile

FIGURE 5

TOPOGRAPHY AND RESOURCES

The relief on the claim groups is moderate. The north-south Murphy esker is the prominent topographic feature in the area with the land sloping east and westward down into large swampy areas on it's flanks.

Wherever the esker passes through the claim groups commercial stands of jack pine thrive. Birch, poplar and some spruce are found on the side slopes of the esker. Tag alder and black spruce are found in the large swampy areas on either side of the esker.

Commercial gravel deposits exist along the Murphy esker and gravel is currently being taken from the series of pits along Highway 655 within claim group 1202-10.

PREVIOUS WORK

All the claim groups have been held intermittently by a variety of owners since the early 1930's. The greatest amount of activity occurred on these claims during and through the years directly following the 1964 Kidd Creek Cu-Zn-Ag discovery to the north in Kidd township. It is known from privately gathered information that all the claim groups were included in larger airborne electromagnetic and magnetic surveys completed by Mespil Mines, McIntyre Mines and Hollinger Mines, but unfortunately none of these surveys have been submitted to the government assessment files.

One diamond drill hole on current claim P-594596 could be found in the assessment files. This hole was completed by Renzy Mines in 1969 to evaluate a conductive zone which was found to be caused by graphite within a sedimentary series of rocks.

During the spring of 1981, Comstate Resources completed an airborne Input survey over most of Murphy township. This survey included all the land within the claim blocks covered in this report.

SURVEY METHOD

The surveys were performed by M. E. Lavery, assisted by M. Petruk and A. Verville. Air photos at a scale of 1:15,840, roads and power lines were used for control. All traverse lines were run using pace and compass at 100 metre intervals except where beaver ponds or extremely wet swamps made this impossible. In the latter case, traverses were run around these areas and carried on.

REGIONAL GEOLOGY

The rocks of the Timmins area are of Archean Age with the exception of a few diabase dykes which are late Precambrian. The volcanic rocks of the Timmins area consist of the older Deloro Group and the overlying Tisdale Group. These rocks are predominately mafic but do range in composition from ultramafic to felsic and include associated sedimentary horizons. A thick sequence of metasediments termed the Porcupine Group is in part contemporaneous and in part overlies the Tisdale Group. Igneous bodies ranging in composition from ultramafic to felsic intrude the area. A few north to north-east trending diabase dykes of late Precambrian age intrude all rock types of the area.

A major structural break, the Destor-Porcupine Fault, trends north-east across the area. Other regional structures include the Burrows-Benedict and the Montreal River fault systems. All the rocks, with the exception of the diabases, are tightly folded and sheared in a dominantly north-east direction.

The volcanic and sedimentary rocks of the area have undergone regional metamorphism to the lower and middle greenschist facies.

TABLE OF LITHOLOGICAL UNITS FOR THE TIMMINS AREA

CENOZOIC

Quaternary

Pleistocene

Till, clay, sand, gravel

Unconformity

PRECAMBRIAN

Mafic Intrusive Rocks

Olivine diabase, quartz diabase

Intrusive Contact

Huronian Supergroup

Gowganda Formation, Cobalt Group

Unconformity

ARCHEAN

Mafic Intrusive Rocks

Diabase

Intrusive Contact

Felsic Intrusive Rocks

Quartz feldspar porphyry, granite, diorite, granodiorite

Metamorphosed Mafic Intrusive Rocks

Gabbro, quartz gabbro

Intrusive and Gradational Contact

Metamorphosed Ultramafic Intrusive Rocks

Serpentinized diorite, peridotite

Intrusive Contact

METAVOLCANICS AND METASEDIMENTS

Metasediments

Conglomerate, lithic wacke, iron formation

Metavolcanics

Felsic Calc-alkalic metavolcanics

Massive, fine grained flows, tuff, lapilli tuff, breccia

Mafic Calc-alkalic metavolcanics

Massive, fine grained flows, pillowed flows, tuff, lapilli tuff and breccia, sheared, carbonated pyroclastics

Tholeiitic Metavolcanics

Massive to medium grained flows, pillowed flows and flow breccia, minor tuff, lapilli tuff and breccia

Komatiitic Metavolcanics

Peridotite, olivine spinifex, carbonate and talc alteration

PROPERTY GEOLOGY

There was no outcrop exposure on any of the claim groups examined.

The southern part of Murphy township, including the examined claim groups, is interpreted from previous drilling and geophysics to be underlain by the lower formations of the Tisdale Group and the lower formations of the Porcupine Group. The rock types would include peridotite, komatiitic basalt, tholeiitic basalt, andesite, dacite, greywacke and argillite.

The Burrows-Benedict Fault is projected to strike north-north-westerly through claim P-636457 off-setting the stratigraphy approximately 800 metres with a sinistral movement.

Respectfully submitted,

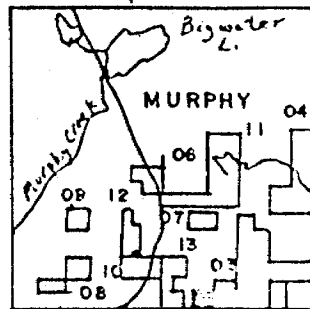
Timmins, Ontario
June 1982

M. E. Lavery
Geologist

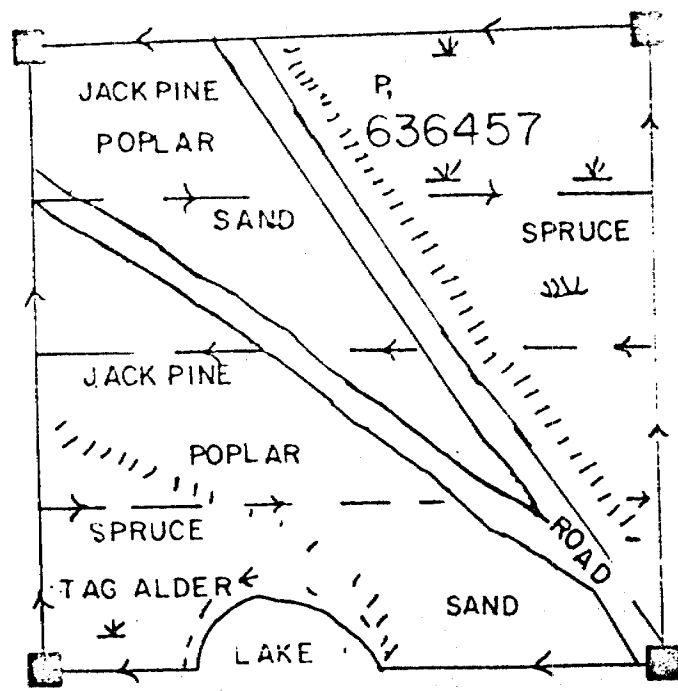
APPENDIX A
SCHEDULE OF CLAIMS

Claim Group	Township	Number	Claim Numbers	Recording Date
1202-03	Murphy	1	P-636457	April 2, 1982
1202-10	Murphy	8	P-641625	April 6, 1982
			P-641626	April 6, 1982
			P-641778	April 6, 1982
			P-641779	April 6, 1982
			P-641780	April 6, 1982
			P-641781	April 6, 1982
			P-641788	April 6, 1982
			P-641789	April 6, 1982
1202-12	Murphy	7	P-393148	July 16, 1981
			P-393161	July 16, 1981
			P-393162	July 16, 1981
			P-393163	July 16, 1981
			P-393164	July 16, 1981
			P-393165	July 16, 1981
			P-393736	July 16, 1981
1202-13	Murphy	7	P-594595	November 12, 1980
			P-594596	November 12, 1980
			P-594597	November 12, 1980
			P-594598	November 12, 1980
			P-619352	August 31, 1981
			P-619353	August 31, 1981
			P-619354	August 31, 1981

DM 81-S-V 137
63.4115.



INDEX MAP Sc: 1:25000



LOT 5

LEGEND

- Traverse Direction
- Ridge

Amax Minerals Exploration
 Murphy TWP Ont.
 Geological Survey
 Bell-3 1202-03
 Scale: 1: 5000

N.T.S. 42/A/11 July 1982
 To Accompany Report By: Timmins, Office

REPORT ON A GEOLOGICAL SURVEY

MURPHY and HOYLE TOWNSHIPS, ONTARIO

PROJECT 045-04

NTS: 42-A-11

AMAX MINERALS EXPLORATION

Timmins, Ontario
October, 1982

M.E. Lavery
Geologist

Appendix 5 1

CMR 81-5-JV-137

T A B L E O F C O N T E N T S

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LIST OF MAPS

MAP 1	GEOLOGICAL SURVEY MAP	Back Pocket
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SUMMARY

During July and August, 1982, a geological survey was completed over thirty-two (32) contiguous claims in one group which straddles the Murphy-Hoyle township line, district of Cochrane, Ontario.

The claim group is completely covered by overburden which varies from a few small sandy knolls to predominately muskeg and spruce bog.

The bedrock geology underlying the claim group is interpreted, from geophysics and previous drilling in the area, as mafic to intermediate volcanics and tuffs of the lower formations of the Tisdale Group and sediments of the lower formations of the Porcupine Group.

CONCLUSIONS AND RECOMMENDATIONS

The geological survey confirmed that no outcrop exposure exists on the claim group leading to the following recommendations:

1. All previously completed airborne and ground geophysical data should be re-assessed in an attempt to locate structural targets which may be proximal to potentially favourable areas for gold deposition.
2. All known geological data should be compiled for the central parts of Murphy and Hoyle townships to assist in the location of target areas.
3. Priority rating of located target areas should be followed-up with an integrated program of linecutting, proton magnetometer, electromagnetic and possibly induced polarization surveys to further define drill targets.
4. Diamond core drill evaluation of defined targets.

INTRODUCTION

A detailed geological survey was completed over thirty-two (32) contiguous claims in one group which straddles the Murphy-Hoyle township line during July and August of 1982. The claim numbers are P-516562-565, P-516572-575, P-525270-277, P-525303-306, P-540402-405, P-546519 and P-546522-528 inclusive containing approximately 512 hectares of land. All the claims are recorded in the name of Amax of Canada Limited.

The purpose of the geological survey was to locate and map any outcrop which exists on the claims in an attempt to correlate this data with rock exposures and diamond drill information to the south.

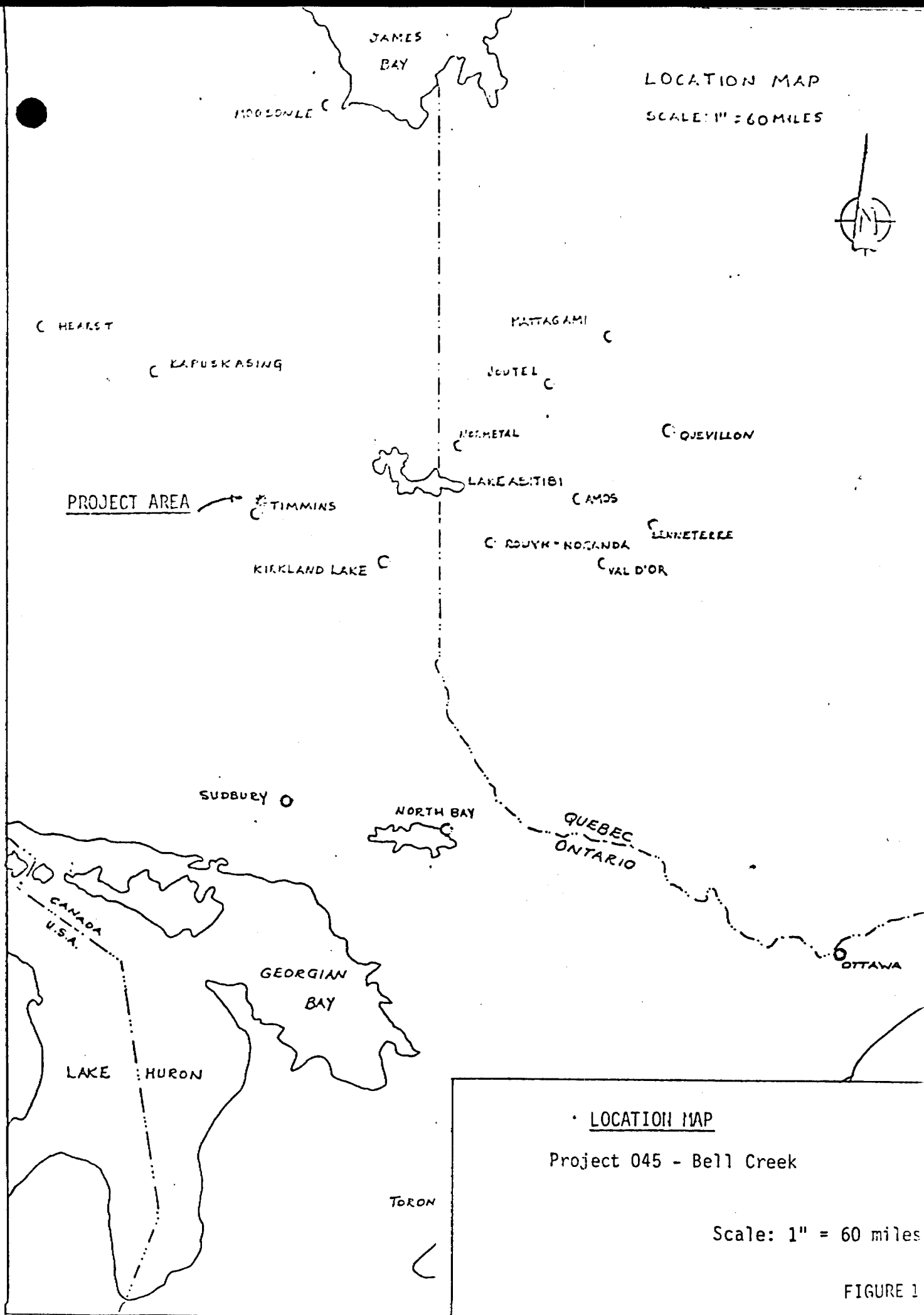
The survey is the initial phase of a multi-phase exploration program designed to locate economically exploitable ore deposits.

LOCATION AND ACCESS

The surveyed claims occupy parts of Concession III and the south half of IV, Lots 11 and 12, Hoyle township and Lots 1 and 2, Murphy township, district of Cochrane Ontario. The property is located approximately 15 kilometres northeast of the Timmins city centre.

LOCATION MAP

SCALE: 1" = 60 MILES



PROJECT AREA

TIMMINS

• LOCATION MAP

Project 045 - Bell Creek

Scale: 1" = 60 miles

FIGURE 1

Access onto the property is possible by motor vehicle, north from Highway 101 along Highway 655 to approximately 1.5 kilometres north of the Miller Paving site and then northeastward along a good gravel road to the common concession line between Concession II and III and hence eastward along the concession line for 2 kilometres to the claim group.

The Kidd Creek spur line of the O.N.R. crosses the northeast corner of the claim group but access along the line is too lengthy to be practical.

TOPOGRAPHY AND RESOURCES

The relief of the claim group is flat with only a few low sandy knolls rising above the otherwise low flat muskeg and spruce bog. Little Goose Creek and Bell Creek are the prominent topographic features crossing the claim group.

A gravel permit covers claims P-546524 and P-546528 along part of the northern boundary of the claim group. The gravel from this area was used during the construction of the Kidd Creek railway spur line.

The prominent vegetation on the claim group is black spruce which grows everywhere except on the sandy knolls where birch, poplar and tag alder predominate.

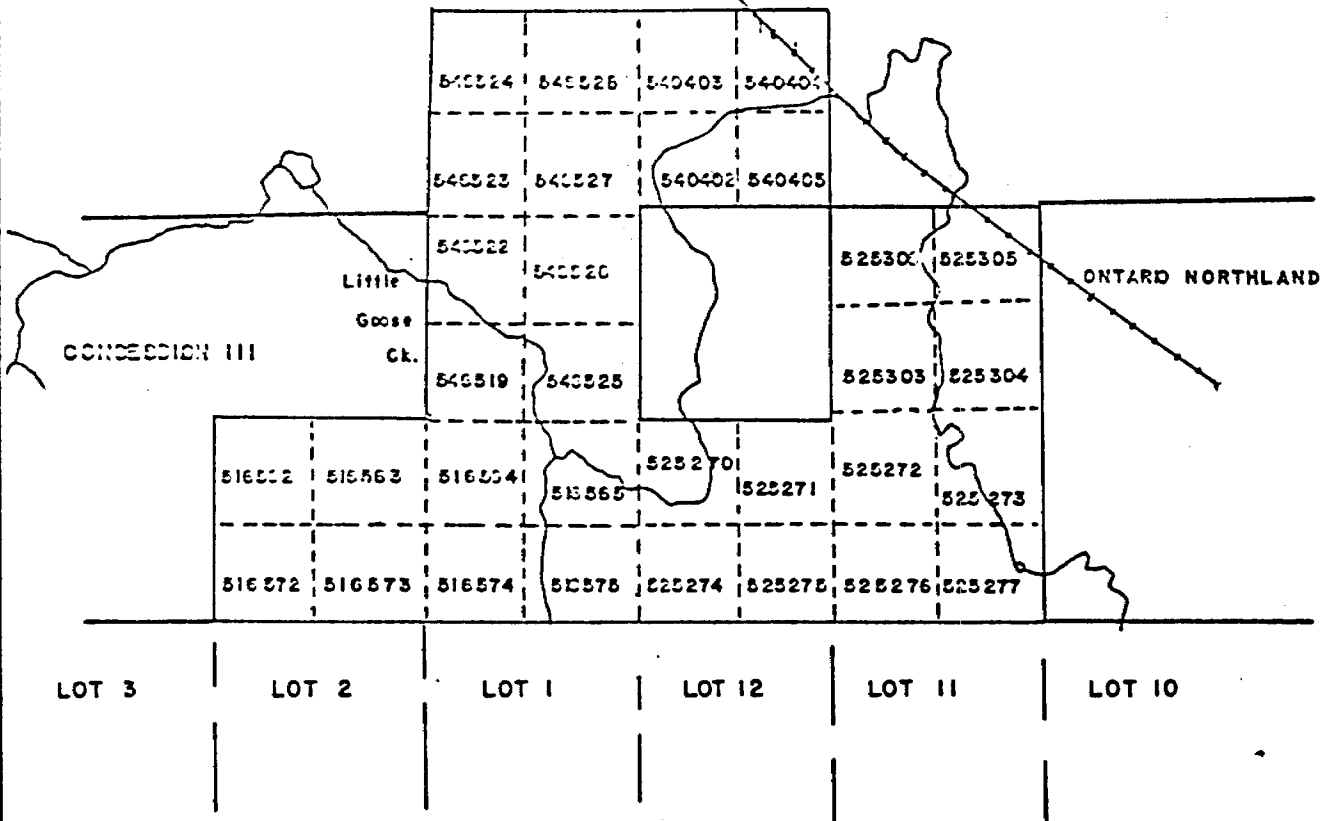


Murphy Township

Hoyle Township

CONCESSION IV

GROUP 045-04



SCALE 1" = 1/2 mile

CLAIM SKETCH

Project 045, Group 045-04

MURPHY AND HOYLE TOWNSHIPS

N.T.S.: 42-A-11

PREVIOUS WORK

All the claims have been held intermittently by a variety of owners since the early 1930's. The greatest amount of activity occurred on these claims during and through the years directly following the 1964 Kidd Creek Cu-Zn-Au discovery to the northwest in Kidd township. It is known from privately gathered information that all the claims were included in larger airborne electromagnetic and magnetic surveys completed by Mespi Mines, McIntyre Mines and Hollinger Mines but unfortunately, none of these surveys have been submitted to the government assessment files.

Rosario Resources Canada Limited completed an integrated program of linecutting, electromagnetic and proton magnetometer surveys over the south half of Concession III, Lots 1 and 2, Murphy township and Lots 11 and 12, Hoyle township during 1979. A conductive trend was located along the southern boundary of the claim group.

A diamond drill hole was completed on claim P-516575 to evaluate this conductor and intersected sediments to the north of a graphitic argillite conductor and carbonated mafic volcanics to the south. A second diamond drill hole was completed on claim P-525306 with a sequence of sediments and tuffs intersected. No significant gold values were reported from either of these holes.

During the spring of 1981, Comstate Resources completed an airborne INPUT survey over most of Murphy and Hoyle townships. This survey included the claim group covered in this report.

SURVEY METHOD.

The survey was completed by M.E. Lavery, assisted by M. Petruk and A. Verville. Air photos at a scale of 1:15,840, concession lines and creeks were used for control while mapping. All traverse lines were run using pace and compass at 100 metre intervals except where beaver ponds or extremely wet swamps made this impossible. In the latter case, traverses were run around these areas and carried on.

REGIONAL GEOLOGY

The rocks of the Timmins area are of Archean Age with the exception of a few diabase dykes which are late Precambrian. The volcanic rocks of the Timmins area consist of the older Deloro Group and the overlying Tisdale Group. These rocks are predominately mafic but do range in composition from ultramafic to felsic and include associated sedimentary horizons. A thick

CENZOIC

Quaternary

Pleistocene

Till, clay, sand, gravel

Unconformity

PRECAMBRIAN

Mafic Intrusive Rocks

Olivine diabase, quartz diabase

Intrusive Contact

Huronian Supergroup

Gowganda Formation, Cobalt Group

Unconformity

ARCHEAN

Mafic Intrusive Rocks

Diabase

Intrusive Contact

Felsic Intrusive Rocks

Quartz feldspar porphyry, granite, diorite, granodiorite

Metamorphosed Mafic Intrusive Rocks

Gabbro, quartz gabbro

Intrusive and Gradational Contact

Metamorphosed Ultramafic Intrusive Rocks

Serpentinized diorite, peridotite

Intrusive Contact

METAVOLCANICS AND METASEDIMENTS

Metasediments

Conglomerate, lithic wacke, iron formation

Metavolcanics

Felsic Calc-alkalic metavolcanics

Massive, fine grained flows, tuff, lapilli tuff, breccia

Mafic Calc-alkalic metavolcanics

Massive, fine grained flows, pillowed flows, tuff, lapilli tuff and breccia, sheared, carbonated pyroclastics

Tholeiitic Metavolcanics

Massive to medium grained flows, pillowed flows and flow breccia, minor tuff, lapilli tuff and breccia

Komatiitic Metavolcanics

Peridotite, olivine spinifex, carbonate and talc alteration

sequence of metasediments termed the Porcupine Group is in part contemporaneous and in part overlies the Tisdale Group. Igneous bodies ranging in composition from ultramafic to felsic intrude the area. A few north to northeast-trending diabase dykes of late Precambrian age intrude all rock types of the area.

A major structural break, the Destor-Porcupine Fault, trends northeast across the area. Other regional structures include the Burrows-Benedict and the Montreal River fault systems. All the rocks, with the exception of the diabases, are tightly folded and sheared in a dominantly north-east direction.

The volcanic and sedimentary rocks of the area have undergone regional metamorphism to the lower and middle greenschist facies.

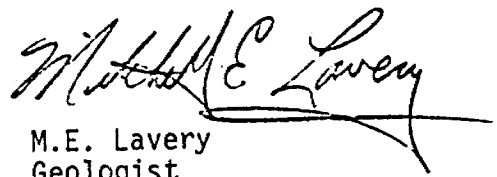
PROPERTY GEOLOGY

There was no outcrop exposure on any of the claims within the claim group.

The central part of Murphy and Hoyle townships covered by claim group 045-04 is interpreted from previous drilling and geophysics to be underlain by the lower formations of the Tisdale Group and the lower formations of the Porcupine Group. The rock

types would include peridotite, komatiitic basalt, tholeiitic basalt, andesite, greywacke, argillite and related tuffs. Carbonate alteration occurs sporadically throughout all these rock types. The area is cross-cut by a few north-south diabase dykes which sometimes are off-set by later faults.

Respectfully submitted,


M.E. Lavery
Geologist

Timmins, Ontario
October 25, 1982

SCHEDULE 1

SCHEDULE OF CLAIMS

PROJECT 045-04

BELL CREEK JOINT VENTURE

Claim Group	Township	Number	Claim Numbers	Recording Date
045-04 Bell-4	Murphy	16	P-516562	November 3, 1978
			P-516563	November 3, 1978
			P-516564	November 3, 1978
			P-516565	November 3, 1978
			P-516572	November 3, 1978
			P-516573	November 3, 1978
			P-516574	November 3, 1978
			P-516575	November 3, 1978
			P-546519	November 2, 1979
			P-546522	November 2, 1979
			P-546523	November 2, 1979
			P-546524	November 2, 1979
			P-546525	November 2, 1979
			P-546526	November 2, 1979
			P-546527	November 2, 1979
			P-546528	November 2, 1979
	Hoyle	16	P-525270	November 15, 1978
			P-525271	November 15, 1978
			P-525272	November 15, 1978
			P-525273	November 15, 1978
			P-525274	November 15, 1978
			P-525275	November 15, 1978
			P-525276	November 15, 1978
			P-525277	November 15, 1978
			P-525303	December 18, 1978
			P-525304	December 18, 1978
			P-525305	December 18, 1978
			P-525306	December 18, 1978
			P-540402	November 2, 1979
			P-540403	November 2, 1979
			P-540404	November 2, 1979
			P-540405	November 2, 1979

A total of 32 claims.

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 1202-01-102

Elevation: 282.9m

Hole No. 1202-01-102 Sheet 1
Property Bell Creek J.V.
Township Hoyle
Location N 5609.0, E 5686.9
Logged By A. Philipp
Core Location Rosario Core Storage

Length 144.0 metres
Bearing 0
Dip -50°
Objective To evaluate strike extent of north zone

Commenced 27/1/82
Completed 29/1/82
Drilling Co. St. Lambert
Core Size BQ
Casing Left/ Lost in Hole none

Dip: Collar -54°
Etch Test Depth Rdg. True
1 50.0m 55° 47°
2 100.0m 51° 43°
3 150.0m 49° 41°

Location Sketch North
↑
Claim No. P-44698 (L)
Scale:

Remarks Rock types do correlate but marker gabbroic flow is pinching out:
Main zone at 102.0 metres is poorly concentrated and spread out. Graphite - Au zone
at 126.0 metres looks better mineralized than in Hole 81-45!

Footage/ Metres		DESCRIPTION	Sample No	From	To	Length (metres)	Au ppm	Au ppm	Au ppm
From	To								
0	29.2	CASING - OVERBURDEN	D0027	37.6	38	0.4	0.02		
			D0028	46	47	1	0.05		
29.2	47.2	GREEN AMYGDALOIDAL BASALT - PILLOW BRECCIA	D0029	47	48	1	0.26		
			D0030	48	49	1	0.02		
47.2	49.3	GRAPHITIC TUFF	D0031	49	50	1	0.22		
			D0032	97	98	1	0.51	0.38	
49.3	63.8	GREYISH - GREEN AMYGDALOIDAL, BASALT - FEW FRAGMENTS	D0033	98	99	1	0.22		
			D0034	99	100	1	0.02		
63.8	66.0	GABBROIC FLOW	D0035	100	100.5	0.5	0.03		
			D0036	100.5	101	0.5	1.29	1.41	
66.0	75.1	GREEN AMYGDALOIDAL BASALT - PILLOW BRECCIA	D0037	101	102	1	0.07		
			D0038	102	103	1	n11		
75.1	79.0	GRAPHITIC TUFF	D0039	103	104	1	0.06		
			D0040	104	105	1	0.33		
79.0	95.4	GREEN PILLOWED BASALT - PILLOW BRECCIA	D0041	105	106	1	0.01		
			D0042	106	107	1	5.14	3.29	3.29
95.4	97.8	TUFFACEOUS BASALT	D0043	107	108	1	0.15		
			D0044	108	109	1	0.51		
97.8	112.0	CARBONATE ROCK (upper zone)	D0045	109	110	1	0.28		
			D0046	110	111	1	0.42		
112.0	123.0	FRACTURED GRAPHITIC CARBONATE ROCK	D0047	111	112	1	0.27		
			D0048	112	113	1	2.01	1.51	
123.0	126.5	GRAPHITIC CHERTY TUFF	D0049	113	114	1	0.20		
			D0050	114	115	1	0.01		
126.5	131.8	GRAPHTIC TUFF (lower zone)							

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 1202-01-103

Elevation: 283.3m

Hole No. 1202-01-103 Sheet 1	Length 135.0 metres	Commenced 29/1/82	Dip: Collar -45°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0	Completed 1/2/82	Etch Test	
Township Hoyle	Dip -45°	Drilling Co. St. Lambert	Depth Rds. True	
Location N 5390.5, E 5896.5	Objective To cut 2 Au-zones intersected in Hole 81-46.23 metres to the west.	Core Size 8Q	1 50.0m 50° 42° 2 100.0m 45° 37° 3 135.0m 41° 34°	
Logged By A. Philipp	Core Location Warehouse, Timmins	Casing Left/Lost in Hole none		

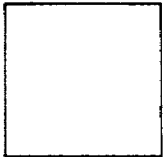
Remarks Both upper and lower Au - zones were cut, lower with some V.G. All rock types correlate very well except bottom unit. Core recovery 99.2% approximately. Plastic casing left in the ground.

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm	Au ppm	Au ppm
From	To									
0	25.5	CASING - OVERBURDEN	D0066	34	35	1	0.03			
			D0067	35	36	1	0.04			
25.5	30.0	VARIOLITIC BASALT	D0068	36	37	1	0.07			
			D0069	37	38	1	0.75	0.89		
30.0	41.6	TAN & GREY CARBONATE BASALT (U.M. TUFF)	D0070	38	39	1	0.06			
			D0071	39	40	1	0.04			
41.6	44.0	CARBONATED ULTRAMAFIC	D0072	40	41	1	0.02			
			D0073	41	42	1	0.02			
44.0	52.0	CARBONATE TUFF	D0074	42	43	1	0.02			
			D0075	43	44	1	0.02			
52.0	71.4	GREY - GREEN BASALT	D0076	44	45	1	0.08			
			D0077	45	46	1	0.91	0.83		
71.4	76.5	BLEACHED FRACTURE ZONE	D0078	69	70	1	0.01			
			D0079	70	71	1	0.28			
76.5	91.0	GREENISH - GREY CARBONATE TUFF	D0080	71	71.5	0.5	2.47			
			D0081	71.5	72.1	0.6	4.93	5.90	6.17	6.03
91.0	95.3	CARBONATE + GRAPHITIC TUFF COARSE FRAGMENTS	D0082	72.1	73	0.9	0.48			
			D0083	73	74	1	0.05			
95.3	101.5	BLEACHED PYRITIC + CARBONATE TUFF V.G.	D0084	74	75	1	0.01			
			D0085	75	76	1	nil			
101.5	115.0	GREY TO DARK - GREY TUFFACEOUS VOLCANIC - CARBONATED	D0086	76	77	1	0.01			
			D0087	77	78	1	nil			
115.0	135.0	GREEN FRAGMENTAL VOLCANIC	D0088	78	79	1	0.02			
			D0089	92	93	1	nil			
	135.0	END OF HOLE	D0090	93	94	1	0.01			

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Elevation: 283.4m

Hole No. 1202-01-104


Hole No. 1202-01-104	Length 147.0 metres	Commenced January 31, 1982	Dip Collar -50°	Location Sketch 
Property Bell Creek J.V.	Bearing North 0	Completed February 2, 1982	Etch Test	
Township Hoyle	Dip -50	Drilling Co. St. Lambert	Depth Rdg. True	
Location N 5300.1, E 6025.3	Objective Explore strike extension of Bell Creek Au zone.	Core Size BQ	1 50.0 m -57° -49°	
Logged By A. Philipp		Casing Left/Lost in Hole none	2 87.0 m -49° -41°	Claim No. Scale
Core Location Timmins - Warehouse			3 147.0 m -46° -38°	
Remarks	A strong alteration zone composed of quartz - ankerite - talc - pyrite was encountered from 47.7 - 62.7 metres. This is the proper stratigraphic horizon for the Au - target host we are looking for. Little aspy but no V.G. was seen.			

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	11.2	CASING - OVERBURDEN										
11.2	16.5	VARIOLITIC BASALT	D0101	46.7	47.5	0.8	0.05					
			D0102	47.5	48.5	1	0.38					
16.5	24.5	MEDIUM GRAINED BASALT - FLOW	D0103	48.5	49.5	1	0.04					
			D0104	43.5	50.5	1	0.92					
24.5	39.0	DARK - GREEN ULTRAMAFIC	D0105	50.5	51.5	1	9.12	10.08				
			D0106	51.5	52.5	1	1.66					
39.0	47.7	CARBONATE ULTRAMAFIC FLOW	D0107	52.5	53.5	1	0.45					
			D0108	53.5	54.5	1	5.14	5.62				
47.7	62.7	CARBONATE FRAGMENTAL TUFF - PYRITIZED - AU ZONE?	D0109	54.5	55.5	1	0.56					
			D0110	55.5	56.5	1	0.07					
62.7	147.0	GRAPHITIC SEDIMENTS	D0111	56.5	57.5	1	1.36					
			D0112	57.5	58.5	1	1.51	1.71				
			D0113	58.5	59.5	1	1.49	1.17				
			D0114	59.5	60.5	1	2.49	2.33				
			D0115	60.5	61.5	1	1.09	0.96				
			D0116	61.5	62.7	1.2	0.50					
			D0117	62.7	63.5	0.8	0.07					
			D0118	63.5	64.5	1	0.05					
			D0119	64.5	66.0	1.5	0.03	0.04				
			D0120	127.0	128.0	1	n11					
			D0121	128.0	129.0	1	n11					

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Elevation: 283.9

Hole No. 1202-01-107

Hole No. 1202-01-107 sheet 1	Length 54.0 metres	Commenced February 3, 1982	Dip Collar -50°	Location Sketch North  Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed February 4, 1982	Ech Test 1	
Township Hoyle	Dip -50°	Drilling Co. St. Lambert	Depth 54.0m	
Location N 5368.2, E 6120.5	Objective To follow east on strike Au - horizon in fragmental tuff.	Core Size BQ	Rdg -59°	
Logged By A. Philipp		Casing Left/Lost in Hole P.V.C.	True -51½°	
Core Location Timmins - Warehouse				

Remarks Mineralized fragmental unit is pinching out. Rock is now totally uncarbonated but silicified. Hard, cherty graphite unit below appears to have been silicified near contact.

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	28.7	CASING - OVERBURDEN										
28.7	29.2	LAMPHROPHYRE DIKE										
29.2	45.4	KOMATIITIC BASALT	D0189	43	44	1	0.05					
			D0190	44	45	1	0.04					
			D0191	45	46	1	0.05	0.03				
			D0192	46	47	1	0.01					
45.4	46.4	BLEACHED + OXIDIZED BASALT - FAULT	D0193	47	48	1	nil					
46.4	49.3	BLEACHED + MINERALIZED FRAGMENTAL TUFF	D0194	48	49.3	1.3	0.02					
			D0195	49.3	50.0	0.7	0.03					
49.3	54.0	CHERTY GRAPHITIC SEDIMENT	D0196	50.0	51.0	1	0.03					
			D0197	51	52	1	0.02					
			D0198	52	53	1	0.03					
	54.0	END OF HOLE	D0199	53	54	1	0.08					

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 1202-01-108

Hole No. 1202-01-108 sheet 1	Length 63.0 metres	Commenced February 5, 1982	Dip Collar -45°	Location Sketch North ↑ Claim No. _____ Scale: _____
Property Bell Creek J.V. Marlhill	Bearing 240° = SW	Completed February 5, 1982	Eich Test	
Township Hoyle	Dip -45°	Drilling Co. St. Lambert	Depth 63.0m	
Location Collar - 150' NW of 81-42	Objective To follow NW striking vein.	Core Size BQ	Rdg. -48° True -40°	
Logged By A Philipp		Casing Left/Lost in Hole none		
Core Location Timmins - Warehouse				
Remarks: Poorly mineralized vein was cut between 42-43 metres. Strike of vein is now nearly parallel with schistosity which is east-west, approx.				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Pu ppm						
From	To													
0	21.7	CASING - OVERBURDEN												
21.7	37.5	TAN-GREY CARBONATE ROCK												
37.5	52.0	DARK-GREY CARBONATE FLOW TOP BRECCIA - INCLUDES VEIN ZONE												
52.0	63.0	GREY CARBONATE ROCK	D0200	36	37	1	0.02							
			D0201	37	38	1	n11							
			D0202	38	39	1	n11							
			D0203	39	40	1	0.01							
			D0204	40	41	1	n11							
			D0205	41	42	1	1.17	1.32						
			D0206	42	43.2	1.2	0.40							
			D0207	43.2	44	0.8	0.04							
			D0208	44	45	1	0.03							
			D0209	45	46	1	0.05							
			D0210	46	47	1	0.03							
			D0211	47	48	1	0.02							
			D0212	48	49	1	0.01							
			D0213	49	50	1	0.01							
			D0214	50	51	1	0.02							
			D0215	51	52	1	0.01							

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 1202-Q1-109

Hole No. 1202-01-109	Length 60.0 metres	Commenced February 6, 1982	Dip: Collar -45°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V. Marlhill	Bearing 240°	Completed February 6, 1982	Ech Test	
Township Hoyle	Dip -45°	Drilling Co. St. Lambert	Depth	
Location 200 NW of 81-42 (330°)	Objective To follow Marlhill vein on strike to the N.W.	Core Size BQ	Rdg. True	
Logged By A. Philipp		Casing Left/Lost in Hole none	1 60.0m -42° -34½°	
Core Location Timmins - Warehouse				
Remarks	Two closely spaced quartz veins + mineralized walls were encountered. Coarse bleb of gold at 42.8 metres. Flat core angles due to a combination of strike (schistosity) and dip angles. Therefore, reduce total width of mineralized zone by about 50%.			

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	A ppm				
From	To											
0	23.5	CASING - OVERBURDEN	D0252	31	32	1	0.01					
23.5	29.8	STRONGLY WEATHERED BEDROCK - FAULT ZONE?	D0253	32	33	1	nil					
29.8	42.6	CARBONATE FLOW TOP BRECCIA	D0254	33	34	1	nil					
42.6	43.5	MINERALIZED QUARTZ VEIN V.G.	D0255	34	35	1	0.01					
43.5	45.0	ALTERED WALL ROCK	D0256	35	36	1	nil					
45.0	45.5	MINERALIZED QUARTZ VEIN	D0257	36	37	1	0.09	0.10				
45.5	56.5	CARBONATE FLOW TOP BRECCIA	D0258	37	38	1	0.01					
56.5	60.0	GREY MASSIVE CARBONATE ROCK	D0259	38	39	1	0.03					
	60.0	END OF HOLE	D0260	39	40	1	0.01					
			D0261	40	41	1	0.01					
			D0262	41	42	1	0.01					
			D0263	42	42.6	0.6	0.05					
			D0264	42.6	43.5	0.9	35.31	35.66				
			D0265	43.5	44.5	1	0.64					
			D0266	44.5	45	0.5	0.60					
			D0267	45	46	1	1.14					
			D0268	46	47	1	nil					
			D0269	47	48	1	nil					
			D0270	48	49	1	nil					
			D0271	49	50	1	nil					
			D0272	50	50.5	0.5	nil					
			D0273	50.5	51.8	1.3	1.43	1.37				
			D0274	51.8	53	1.2	1.26					
			D0275	53	54	1	nil					
			D0276	54	55	1	1.54	1.37				

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Elevation: 283.6m

Hole No. 1202-01-110

Hole No. 1202-01-110	Length 93.0 metres	Commenced February 7, 1982	Dip: Collar -50°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed February 8, 1982	Ech Test	
Township Hoyle	Dip -45°	Drilling Co. St. Lambert	Depth Rdg. True	
Location N 5387.4, E 5993.6	Objective To follow auriferous zone east on strike from hole 80 - 22.	Core Size BQ	1 50.0m -51° -43° 2 84.0m -45° -37°	
Logged By A. Philipp	Core Location Timmins - Warehouse	Casing Left/ Lost in Hole P.V.G.		
Remarks Cut wide alteration zone, spread - out pyrite mineralization with minor local arsenopyrite. (Fuchsite fragments are altered U.M. rock)				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	11.1	CASING - OVERBURDEN	D0281	17.5	18.5	1	0.07					
11.1	19.5	MEDIUM GRAINED MASSIVE CARBONATE ROCK - UM	D0282	18.5	19.5	1	nil					
			D0283	18.5	20.5	1	0.04					
19.5	26.0	FINE GRAINED CARBONATE QUARTZ VEINLETS - UM	D0284	20.5	21.5	1	0.01					
			D0285	21.5	22.5	1	0.03					
26.0	46.6	CARBONATE + MINERALIZED FRAGMENTAL UM TUFF	D0286	22.5	23.5	1	nil					
			D0287	23.5	24.5	1	0.01					
46.6	93.0	STRONGLY GRAPHITIC SEDIMENTS	D0288	24.5	25.5	1	nil					
			D0289	25.5	26	0.5	0.03					
			D0290	26	27	1	0.60	0.51				
			D0291	27	28	1	0.02					
			D0292	28	29	1	nil					
			D0293	29	30	1	0.05					
			D0294	30	31	1	nil					
			D0295	31	32	1	0.01					
			D0296	32	33	1	nil					
			D0297	33	34	1	nil					
			D0298	34	35	1	0.01					
			D0299	35	36	1	0.01					
			D0300	36	37	1	nil					
			D0301	37	38	1	0.20					
			D0302	38	39	1	0.62					
			D0303	39	40	1	0.41					

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Elevation: 283.0m

Hole No. 1202-Q1-111

Hole No. 1202-Q1-111 sheet 1	Length 120.0 metres	Commenced February 8, 1982	Dip: Collar -45°	Location Sketch North ↑ Claim No. _____ Scale: _____
Property Bell Creek J.V.	Bearing North 0°	Completed February 9, 1982	Etch Test Depth Rdg. True	
Township Hoyle	Dip -45°	Drilling Co. St. Lambert	1 50.0m -44° -36°	
Location N. 5390.0, E 5934.8	Objective Follow Au-zones east on strike with 1202-103.	Core Size BQ	2 120.0m -32° -23°	
Logged By A. Philipp	Core Location Timmins - Warehouse	Casing Left Lost in Hole P.V.C.		
Remarks Widespread carbonate alteration includes units near top of Hole. 2 Au-zones cut (no V.G.) bottom zones very wide + well mineralized, some aspy. Fault at 47 metres.				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	20.2	CASING - OVERBURDEN										
20.2	34.3	TAN - GREENISH GREY CARBONATE BASALT OR U.M.?	D0313	32	33	1	0.03					
			D0314	33	34.3	1.3	0.04					
34.3	43.4	CARBONATE ULTRAMAFIC	D0315	34.3	35	0.7	0.08					
			D0316	35	36	1	0.05					
43.4	47.7	CARBONATE TUFF (U.M. ORIGIN.) FAULT ZONE AT BOTTOM	D0317	36	37	1	0.17	0.11				
			D0318	37	38	1	0.03					
47.7	50.6	GREY CARBONATE FRAGMENTAL - FAULT BRECCIA	D0319	38	39	1	0.04					
			D0320	39	40	1	0.01					
50.6	72.7	GREY - GREEN BASALT	D0321	40	41	1	0.03					
			D0322	41	42	1	0.01					
72.7	78.6	BLEACHED, CARBONATE FRACTURE ZONE. MINERALIZED UPPER AU-ZONE	D0323	42	43	1	0.01					
			D0324	43	44	1	0.05					
78.6	84.7	CARBONATE FRAGMENTAL	D0325	44	45	1	0.03					
			D0326	45	46	1	0.06					
84.7	93.6	CHLORITIC FRAGMENTAL	D0327	46	47.7	1.7	0.10					
			D0328	47.7	48.5	0.8	0.16					
93.6	104.1	CARBONATE + MINERALIZED FRAGMENTAL - LOWER AU ZONE	D0329	48.5	49.5	1	1.11	1.16				
			D0330	49.5	50.5	1	0.32					
104.1	109.0	GREY MASSIVE CARBONATE ROCK	D0331	50.5	51.5	1	0.03					
			D0332	51.5	52.5	1	0.07					
109.0	120.0	DARK - GREY TUFF OR ASHROCK	D0333	70	71	1	0.02					
			D0334	71	72	1	0.01					
	120.0	END OF HOLE	D0335	72	72.8	0.8	nil					

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 1202-01-111
Sheet No. 2

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
			D0336	72.8	74	1.2	0.20					
			D0337	74	75	1.0	0.34					
			D0338	75	76	1	0.37					
			D0339	76	77	1	4.09	4.32				
			D0340	77	78	1	1.74					
			D0341	78	79	1	4.23	3.50				
			D0342	79	80	1	0.42					
			D0343	80	81	1	1.26	1.07				
			D0344	81	82	1	0.11					
			D0345	82	83	1	0.14					
			D0346	83	84	1	nil					
			D0347	84	84.7	0.7	0.07					
			D0348	84.7	85.5	0.8	0.07					
			D0349	91	92	1	nil					
			D0350	92	93	1	0.02					
			D0351	93	94.6	0.6	0.01					
			D0352	93.6	94.5	0.9	0.84	0.89				
			D0353	94.5	95.5	1.0	0.02					
			D0354	95.5	96.5	1	0.44					
			D0355	96.5	97.5	1	0.50					
			D0356	97.5	98.5	1	1.52	1.58				
			D0357	98.5	99.5	1	0.89					
			D0358	99.5	100.5	1	10.56	9.74				
			D0359	100.5	101.5	1	2.27	1.98	0.96	2.59		
			D0360	101.5	102.5	1	0.89	0.92				
			D0361	102.5	103.5	1	0.35					
			D0362	103.5	104.5	1	0.05					
			D0363	104.5	105.5	1	0.22					
			D0364	105.5	106.5	1	0.03					
			D0365	109.5	110.5	1	0.01					
			D0366	110.5	111.5	1	0.05					
			D0367	111.5	112.5	1	0.39	0.32				
			D0368	117	118	1	0.13					
			D0369	118	119	1	0.19					
			D0370	119	120	1	0.76					

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 1202-01-112

Elevation: 283.0m

Hole No. 1202-01-112 Sheet 1	Length 120.0 metres	Commenced February 9, 1982	Dip Collar -50°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed February 11, 1982	Ech Test	
Township Hoyle	Dip -50°	Drilling Co. St. Lambert	Depth Rdg. True	
Location N 5642.7, E 5718.7	Objective To follow 2 Au-zones east on strike from Hole 1202-102.	Core Size BQ	1 60.0m -53° -45° 2 120.0m -47° -39°	
Logged By A. Philipp	Core Location Timmins - Warehouse	Casing Left: Lost in Hole P.V.C.		
Remarks Two well mineralized py zones were cut in their anticipated stratigraphic locations. Associated with the upper zone in a fault and some V.G.				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	27.4	CASING - OVERBURDEN	D0371	51	52	1	0.01					
			D0372	52	53	1	0.66					
27.4	36.0	GREEN AMYGDALOIDAL BASALT	D0373	53	54	1	0.20					
			D0374	54	55	1	0.04					
36.0	45.0	GREY TO DARK - GREY TUFF - MINOR GRAPHITE	D0375	55	56	1	0.86					
			D0376	56	57.3	1.3	2.38	2.47				
			D0377	57.3	58	0.7	0.39					
45.0	49.1	MASSIVE FLOW	D0378	58	59	1	0.50					
			D0379	59	60	1	1.23					
49.1	55.2	TUFFACEOUS BASALT	D0380	60	61	1	3.88	4.39				
			D0381	61	62	1	1.26					
55.2	57.2	FAULT + MINERALIZED FRACTURE ZONE	D0382	62	63	1	.81					
			D0383	63	64.3	1.3	3.50	3.86				
57.2	62.2	CARBONATE + MINERALIZED FRAGMENTAL, V.G.	D0384	64.3	65.3	1	1.30					
			D0385	65.3	66.3	1	0.34					
62.2	63.1	STRONGLY GRAPHITIC LAYER	D0386	66.3	67.3	1	0.71					
			D0387	67.3	68.3	1	0.52					
63.1	70.0	FRACTURED GRAPHITIC CARBONATE ROCK	D0388	68.3	69	0.7	0.71	1.13				
			D0389	73.3	74	0.7	0.06					
70.0	76.3	TUFF + GRAPHITE BEDS	D0390	74	75	1	0.03					
			D0391	75	76	1	0.48					
76.3	82.7	GREENISH - GREY CARBONATE TUFF	D0392	76	77	1	0.84					
			D0393	77	78	1	7.20	4.29	9.60			
82.7	88.1	GRAPHITIC + MINERALIZED CHERTY TUFF - LOWER AU - ZONE	D0394	78	79	1	0.11					
			D0395	79	80	1	0.06					

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Elevation: 283.0m

Hole No. 1202-01-113

Hole No. 1202-01-113 Sheet 1	Length 120.0 metres	Commenced February 11, 1982	Dip Collar -50°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed February 13, 1982	Etch Test 1 57.0m -45° -37°	
Township Hoyle	Dip -50°	Drilling Co. St. Lambert	2 120.0m -43½° -35½°	
Location N 5642.7, E 5595.5	Objective To follow 2 parallel Au-zones west on strike from hole 1202-101.	Core Size 8Q		
Logged By A. Philipp		Casing Left Lost in Hole P.V.C.		
Core Location Timmins - Warehouse				

Remarks Two mineralized Au-zones were intersected further down the hole than usually. V.G. occurs in both! Character of lower zones has changed and may actually be a 3. zone if Au values occur in cherty graphitic zone as well

Metres		DESCRIPTION	Sample No	From	To	Length (metres)	Au ppm	Au ppm			
From	To										
0	29.9	CASING - OVERBURDEN	D0405	70	71	1	0.01				
29.9	34.0	GREEN AMYGDALOIDAL BASALT	D0406	71	72	1	0.02				
			D0407	72	73	1	1.37	1.29	1.92		
			D0408	73	74	1	7.68	7.48			
34.0	37.9	MASSIVE FLOW	D0409	74	75	1	0.61				
			D0410	75	76	1	4.25	4.53			
37.9	41.2	GREEN AMYGDALOIDAL BASALT	D0411	76	77	1	1.72	2.33	3.70		
			D0412	77	78	1	4.21	5.21			
41.2	50.0	FINE GRAINED GRAPHITIC TUFF	D0413	78	79	1	6.17	10.49	8.78		
			D0414	79	80	1	1.88	2.06			
50.0	55.6	MASSIVE BASALT FLOW	D0415	80	81	1	0.06				
			D0416	81	82	1	1.69				
55.6	65.8	GREEN AMYGDALOIDAL BASALT	D0417	82	83	1	0.27				
			D0418	83	84	1	0.03				
65.8	72.0	GREEN SCHISTOSE FRAGMENTAL - TUFFACEOUS	D0419	98	99	1	0.01				
			D0420	99	100.3	1.3	0.03				
72.0	82.0	ALTERED + MINERALIZED ROCK V.G. UPPER AU-ZONE	D0421	100.3	101.3	1	2.83	3.57			
			D0422	101.3	102.5	1.2	0.25				
82.0	92.5	GREEN MASSIVE BASALT-FLOW	D0423	102.5	103.5	1	0.03				
			D0424	103.5	104.5	1	0.05				
92.5	100.3	DARK-GREEN MASSIVE LEUCOKENE BASALT-FLOW	D0425	104.5	105.5	1	0.04				
			D0426	105.5	106.5	1	0.03				
100.3	102.5	DARK-GREY MINERALIZED ALTERATION ZONE V.G. LOWER AU-ZONE	D0427	106.5	107	0.5	0.13				
			D0428	107	108	1	0.36				
			D0429	108	109	1	0.39				

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Elevation: 283.0m

Hole No. 1202-01-114

Hole No. 1202-01-114 Sheet 1	Length 120.0 metres	Commenced February 13, 1982	Dip: Collar -50°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed February 14, 1982	Etch Test Depth Rdg. True	
Township Hoyle	Dip -50°	Drilling Co. St. Lambert	1 57.0m -53° -45°	
Location N 5643, E 5566.4	Objective To follow Au zones west on strike with 1202-113	Core Size BQ	2 120.0m -41° -34°	
Logged By A. Philipp	Core Location Timmins-Warehouse	Casing Left/Lost in Hole P.V.C.		
Remarks Upper Au-zone well mineralized V.G. zones occur further down the hole than in 1202-113. Possible beginning of lower Au-zone near end of hole.				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	33.1	CASING - OVERBURDEN	D0442	80	81	1	0.02					
33.1	51.0	GREEN AMYGDALOIDAL BASALT - FLOW	D0443	81	82	1	n11					
			D0444	82	83	1	0.61					
51.0	55.0	BROKEN SCHIST HORIZON	D0445	83	84	1	0.06					
			D0446	84	85	1	0.06					
55.0	79.0	GREEN AMYDALOIDAL PILLOW BASALT	D0447	85	86	1	0.08					
			D0448	86	87	1	3.77	3.70				
79.0	82.0	GREEN SCHISTOSE TUFF	D0449	87	88	1	3.00	3.29				
			D0450	88	89	1	2.72					
82.0	94.0	MINERALIZED ALTERATION ZONE V.G. UPPER AU-ZONE	D0451	89	90.2	1.2	15.53					
			D0452	90.2	91	0.8	0.38					
94.0	97.6	MASSIVE FOOTWALL BASALT	D0453	91	92	1	0.66					
			D0454	92	93	1	0.27					
97.6	100.0	GREEN SCHISTOSE BASALT	D0455	93	94	1	0.02					
			D0456	94	95	1	0.01					
100.0	119.3	DARK GREEN MASSIVE LEUCOENE BASALT	D0457	95	96	1	0.02					
			D0458	96	97	1	n11					
119.3	120.0	TUFFACEOUS + SCHISTOSE ALTERATION ZONE	D0459	97	98	1	0.03					
			D0460	98	99	1	0.37					
	120.0	END OF HOLE	D0461	118.3	119.3	1	0.03					
			D0462	119.3	120.0	0.7	0.46	0.41				

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DIAMOND DRILL RECORD

Hole No. 1202-01-115

Elevation: 283.4m

Hole No. <u>1202-01-115</u> Sheet <u>1</u>	Length <u>98.0 metres</u>	Commenced <u>February 17, 1982</u>	Dip Collar <u>-50°</u>	Location Sketch North ↑ Claim No. _____ Scale: _____
Property <u>Bell Creek J.V.</u>	Bearing <u>North 0°</u>	Completed <u>February 18, 1982</u>	Ech Test	
Township <u>Hoyle</u>	Dip <u>-50°</u>	Drilling Co. <u>St. Lambert</u>	Depth	
Location <u>N 5658.5, E 5534</u>	Objective <u>To follow N.W. striking Au-zone from hole 1202-114</u>	Core Size <u>BQ</u>	Rdg. True	
Logged By <u>A. Philipp</u>		Casing Left/Lost in Hole <u>30.0 metres BW</u>	<u>1</u> <u>50.0m</u> <u>-51°</u> <u>-43°</u>	
Core Location <u>Timmins - Warehouse</u>			<u>2</u> <u>84.0m</u> <u>-37°</u> <u>-30°</u>	

Remarks: Upper 6.0 metres wide Au-zone was cut and it can be projected to strike NW. Some V.G. and abundant po + py occur. Lower Au-zone was not reached.

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	30.1	CASING - OVERBURDEN										
30.1	66.2	GREEN AMYGDALOIDAL PILLOW BASALT	D0463	73.5	74.5	1	0.02					
			D0464	74.5	75.5	1	0.03					
			D0465	75.5	76.0	0.5	2.70	2.33				
66.2	81.2	FINE GRAINED SCHISTOSE TUFF	D0466	76	77	1	nil					
			D0467	77	78	1	nil					
81.2	87.0	MINERALIZED ALTERATION ZONE V.G. - UPPER AU-ZONE	D0468	78	79	1	0.03					
			D0469	79	80	1	nil					
87.0	91.0	DARK-GREEN SCHISTOSE BASALT	D0470	80	81	1	0.04					
			D0471	81	82	1	1.13					
91.0	98.0	MASSIVE LEUCOXENE BASALT	D0472	82	83	1	6.03	5.49				
			D0473	83	84	1	3.09					
	98.0	END OF HOLE	D0474	84	85	1	2.63					
			D0475	85	85.5	0.5	4.05	2.74	3.29			
			D0476	85.5	86.8	1.3	9.06	8.99				
			D0477	86.8	87.3	0.5	0.18					
			D0478	87.3	88	0.7	0.03					
			D0479	88	89	1	0.02					

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DIAMOND DRILL RECORD

Elevation: 283.4m

Hole No. 1202-01-118

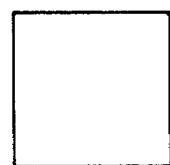
Hole No. 1202-01-118, sheet 1	Length 201.0 metres	Commenced February 26, 1982	Dip: Collar -50°	Location Sketch North ↑ Claim No. _____ Scale: _____
Property Bell Creek J.V.	Bearing North 0	Completed March 1, 1982	Etch Test Depth Rdg. True	
Township Hoyle Twp.	Dip -50	Drilling Co. St. Lambert	1 50.0m 52° 44°	
Location N 5581.3, E 5595.2	Objective To follow 2 Au-zones in hole 1202-113 to greater depth.	Core Size BQ	2 100.0m 42° 34°	
Logged By A. Philipp		Casing Left/Lost in Hole P.V.C.	3 150.0m 36° 29°	
Core Location Timmins - Warehouse			4 201.0 32° 26°	
Remarks Upper and lower Au zones were intersected below hole 1202-113, upper zone with V.G. but narrower than in hole above.				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	30.6	CASING - OVERBURDEN	D0524	77.8	78.6	0.8	0.69	0.59				
			D0525	82.2	83.2	1	nil					
30.6	56.2	GRAPHITIC BASALT - BRECCIA	D0526	83.2	84.2	1	0.51	0.42				
			D0527	84.2	85.2	1	nil					
56.2	60.5	GRAPHITIC VOLCANIC ROCK - BRECCIA	D0528	110.5	111.5	1	0.27					
			D0529	134	135	1	nil					
60.5	65.5	AMYGDALOIDAL BASALT - BRECCIA	D0530	135	136	1	nil					
			D0531	136	137	1	nil					
65.5	71.85	GREEN AMYGDALOIDAL PILLOW BASALT	D0532	137	138	1	0.10					
			D0533	138	138.7	0.7	29.48	26.40	24.00	40.25		
71.85	76.2	WEAKLY GRAPHITIC TUFF	D0534	138.7	138.5	0.8	10.97	10.29				
			D0535	139.5	140.5	1	0.16					
76.2	84.8	GREEN TUFFACEOUS BASALT. INCLUDES NARROW ALTERATION ZONE	D0536	140.5	141.3	0.8	0.31					
			D0537	141.3	142.5	1	0.02					
84.8	99.0	MASSIVE AMYGDALOIDAL PILLOW BASALT	D0538	142.5	143.5	1	nil					
			D0539	143.5	144.5	1	nil					
99.0	101.3	MASSIVE FLOW	D0540	144.5	145.5	1	nil					
			D0541	145.5	146.5	1	0.03					
101.3	135.3	MASSIVE AMYGDALOIDAL PILLOW BASALT - AS ABOVE	D0542	159.7	160.2	0.5	0.77	0.95				
			D0543	172	173	1	0.05					
135.3	138.0	SCHISTOSE TUFFACEOUS ROCK	D0544	173	174	1	0.08					
			D0545	174	174.5	0.5	1.61	1.34				
138.0	141.3	ALTERED + MINERALIZED ZONE V.G. - UPPER AU ZONE	D0546	174.5	175.5	1	0.01					
			D0547	175.5	176.5	1	nil					
			D0548	176.5	177.5	1	0.06					

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Elevation: 283.6m

Hole No. 1202-01-120

Hole No. 1202-01-120	Length 189.2 metres	Commenced March 2, 1982	Dip Collar -50°	Location Sketch North  Claim No. Scale: ..
Property Bell Creek J.V.	Bearing North 0°	Completed March 5, 1982	Ech Test	
Township Hoyle	Dip -50°	Drilling Co. St. Lambert	Depth Rdg. True	
Location N 5597.7, E 5566.4	Objective To follow Au zones to greater depth below Hole 1202-114.	Core Size BQ	1 50.0m 47° 39°	
Logged By A. Philipp		Casing Left/Lost in Hole P.V.C.	1 93.0m 42° 35°	
Core Location Timmins Warehouse			1 150.0m 36° 29°	
			1 190.0m 34° 27°	

Remarks: Upper Au zone narrower than in hole 1202-114. Some V.G. Lower Au zone well mineralized with sulphides.

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	28.6	CASING - OVERBURDEN	D0579	42	43	1	0.04					
28.6	30.1	BOULDERS	D0580	43	44	1	0.11					
			D0581	44	45	1	0.15					
30.1	32.7	GRAPHITIC BASALT BRECCIA	D0582	45	46	1	nil					
			D0583	46	47	1	nil					
32.7	33.0	LAMPROPHYRE DIKE	D0584	47	48	1	nil					
			D0585	48	49	1	0.21	0.20				
			D0586	49	50	1	nil					
33.0	43.2	GRAPHITIC BASALT BRECCIA	D0612	58.3	59.3	1	0.12					
			D0613	59.3	60.3	1	1.36	1.22				
43.2	49.0	GRAPHITIC FRAGMENTAL TUFF	D0587	121.3	122	0.7	nil					
			D0588	128	129	1	nil					
43.0	54.0	GRAPHITE BASALT BRECCIA	D0589	129	130	1	0.06					
			D0590	130	130.7	0.7	0.64					
54.0	66.5	GREEN TUFFACEOUS BASALT - GRAPHITIC INTERBEDS	D0591	130.7	131.7	1	6.17	6.11				
			D0592	131.7	132.3	0.6	2.46	2.41				
66.5	98.3	MASSIVE AMYGDALOIDAL BASALT	D0593	132.3	133.3	1	0.03					
			D0594	133.3	134.3	1	0.69					
66.3	120.8	MASSIVE AMYGDALOIDAL PILLOW BASALT	D0595	134.3	135.3	1	0.01					
			D0596	135.3	136.3	1	0.02					
120.8	130.7	ALTERED HANGINGWALL BASALT	D0597	136.3	137.3	1	0.07					
			D0598	137.3	138.3	1	0.28					
130.7	133.9	ALTERED + MINERALIZED ZONE - V.G. UPPER AU ZONE	D0614	140.6	141.1	0.5	0.54					
			D0599	163.5	164.2	0.7	0.01					
			D0600	164.2	165	0.8	0.23					

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Elevation: 283.2m

Hole No. 1202-01-121

Hole No. 1202-01-121 Sheet 1	Length 150.0 metres	Commenced March 5, 1982	Dip Collar -50°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed March 8, 1982	Ech Test	
Township Hoyle	Dip -50°	Drilling Co. St. Lambert	Depth Rdg. True	
Location N 5609, E 5657.4	Objective To follow 2 Au zones to greater depth below Hole 81-45.	Core Size 80	1 54.0m 53° 45° 1 100.0m 49° 41° 1 150.0m 33° 26°	
Logged By A. Philipp	Core Location Timmins - Warehouse	Casing Left: Lost in Hole		
Remarks Upper Au zone narrow but with some V.G. Lower Au-zone well mineralized.				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm	Au ppm	Au ppm
From	To									
0	29.3	CASING - OVERBURDEN	D0624	41	42	1	nil			
29.3	32.5	BOULDERS	D0625	42	43	1	0.74			
			D0876	43	44	1	8.44	7.55	8.33	12.62
			D0877	44	45	1	2.66	2.81		
32.5	35.2	ALTERED VOLCANICS	D0878	45	46	1	0.01			
			D0879	46	46.5	0.5	0.02			
35.2	41.7	GREEN AMYGDALOIDAL BASALT	D0880	71.2	72.2	1	nil			
			D0881	72.2	73.2	1	0.25			
41.7	46.2	GRAPHITIC TUFF CHERT VEINS	D0882	73.2	74.2	1	nil			
			D0883	92	93	1	nil			
46.2	60.8	GREEN AMYGDALOIDAL BASALT - TUFFACEOUS	D0884	93	94	1	.63			
			D0885	94	94.7	0.7	1.08	1.3		
60.8	68.3	MASSIVE GABBROIC FLOW	D0886	94.7	96	1.3	3.16	3.79		
			D0887	96	97	1	0.99			
68.3	75.5	WEAKLY CARBONATE + GRAPHITIC TUFF	D0888	97	98	1	1.00			
			D0889	98	99	1	1.31			
75.5	92.0	AMYGDALOIDAL PILLOW BASALT	D0890	99	100	1	1.21			
			D0891	100	101	1	0.15			
92.0	94.7	WEAKLY GRAPHITIC TUFFACEOUS ROCK	D0892	101	102	1	1.51	2.15	1.10	
			D0893	102	103	1	0.03			
94.7	100.0	ALTERED + MINERALIZED ZONE - V.G. UPPER AU ZONE	D0894	103	104	1	0.39			
			D0895	104	105	1	1.58	1.10	1.65	
100.0	108.0	GREY CARBONATE - MASSIVE FOOTWALL	D0896	105	106	1	0.01			
			D0897	106	107.3	1.3	nil			
108.0	113.2	GREENISH GREY MASSIVE CARBONATE	D0898	107.3	108	0.7	nil			

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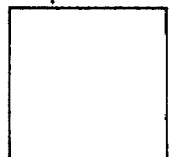
Hole No. 1202-01-121
 Sheet No. 2

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm	Au ppm	Au ppm
From	To									
113.2	115.1	WEAKLY GRAPHITIC TUFF	D0899	108	109	1	0.04			
			D0900	109	110	1	0.33			
115.1	123.8	ALTERED CHLORITIC TUFF	D0901	110	111	1	0.07			
			D0902	111	112	1	nil			
123.8	129.0	GRAPHITIC CHERTY TUFF - LOWER AU ZONE	D0903	112	113	1	0.2			
			D0904	113	114	1	0.35			
129.0	132.25	TUFFACEOUS BASALT	D0905	114	115	1	0.27			
			D0906	115	116	1	0.04			
132.25	150.0	GREEN MASSIVE BASALT	D0907	122	123	1	0.02			
			D0908	123	123.7	0.7	0.03			
	150.0	END OF HOLE	D0909	123.7	124.7	1	0.68			
			D0910	124.7	126.0	1.3	0.89			
			D0911	126	127	1	1.33			
			D0912	127	128	1	1.12			
			D0913	128	129	1	3.61	3.57		
			D0914	129	130	1	0.08			
			D0915	130	131	1.1	0.10			
			D0916	131.1	132.3	1.2	0.01			

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Elevation: 283.4

Hole No. 1202-01-122

Hole No. 1202-01-122 Property Bell Creek J.V. Township Hoyle Location 4 5582.5, E. 5625.9 Logged By A. Philipp Core Location Timmins - Warehouse	Length 192.0 metres Bearing North 0 Dip -65 Objective To follow Au zones to greater depth below Hole 1202-101.	Commenced March 8, 1982 Completed March 10, 1982 Drilling Co. St. Lambert Core Size BQ Casing Left: Lost in Hole	Dip: Collar -65° <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Ech Test</th> <th>Depth</th> <th>Rdg.</th> <th>True</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>50.0m</td> <td>62°</td> <td>55°</td> </tr> <tr> <td>1</td> <td>100.0m</td> <td>52°</td> <td>44°</td> </tr> <tr> <td>1</td> <td>150.0m</td> <td>46°</td> <td>38°</td> </tr> <tr> <td>1</td> <td>192.0m</td> <td>39°</td> <td>32°</td> </tr> </tbody> </table>	Ech Test	Depth	Rdg.	True	1	50.0m	62°	55°	1	100.0m	52°	44°	1	150.0m	46°	38°	1	192.0m	39°	32°
Ech Test	Depth	Rdg.	True																				
1	50.0m	62°	55°																				
1	100.0m	52°	44°																				
1	150.0m	46°	38°																				
1	192.0m	39°	32°																				
Remarks: Upper Au zone narrow but well mineralized with sulphides + multiple specks of V.G. Lower Au zone split in 2 parts, each narrow and of mediocre mineralization.			Location Sketch  North ↑ Claim No. _____ Scale: _____																				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	28.5	CASING - OVERBURDEN	D0932	78.3	79.3	1	0.10					
28.5	29.0	BOULDERS	D0933	79.3	80.3	1	0.17					
			D0934	92.3	93.3	1	0.02					
29.0	30.0	TUFFACEOUS BASALT BROKEN CORE	D0935	93.3	94.3	1	nil					
			D0936	94.6	95.3	1	0.06					
30.0	40.5	WEAKLY GRAPHITIC TUFF	D0937	95.3	96.3	1	0.07					
			D0938	116.9	117.9	1	0.86	.34	.35			
			D0939	117.9	118.9	1	0.27					
40.5	61.2	TUFFACEOUS AMYGDALOIDAL BASALT	D0940	134	135	1	0.01					
			D0941	135	136	1	nil					
61.2	72.0	TUFFACEOUS BASALT BRECCIA	D0942	136	137	1	0.03					
			D0943	137	138	1	nil					
72.0	78.1	MASSIVE TUFFACEOUS BASALT	D0944	138	139	1	0.01					
			D0945	139	140	1	0.16					
78.1	80.8	WEAKLY GRAPHITIC TUFF	D0946	140	141	1	37.12					
			D0947	141	142	1	2.09	1.84				
80.8	86.5	CHLORITIC FRAGMENTAL TUFF	D0948	142	143	1	0.52					
			D0949	143	144	1	0.06					
86.5	93.3	COARSE GABBROIC FLOW	D0950	144	145	1	0.45					
			D0951	145	146	1	0.01					
93.3	96.1	WEAKLY GRAPHITIC TUFF	D0952	146	147	1	0.01					
			D0953	147	148.3	1.3	0.02					
96.1	101.7	GREEN TUFFACEOUS BASALT	D0954	148.3	149.1	0.8	0.44	0.86	0.41			
			D0955	149.1	150	0.9	nil					
101.7	117.0	MASSIVE AMYGDALOIDAL PILLOW BASALT	D0956	150	151	1	0.01					

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Hole No. 1202-01-123

Elevation: 283.0m

Hole No. 1202-01-123, Sheet 1	Length 200.0 metres	Commenced March 10, 1982	Dip: Collar -65°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed March 13, 1982	Etch Test	
Township Hoyle	Dip -65°	Drilling Co. St. Lambert	Depth	
Location N 5573.8, E 5688.2	Objective To follow 2 Au zones to greater depth + below Hole 102.	Core Size 8Q	Rdg	
Logged By A. Philipp		Casing Left/Lost in Hole	True	
Core Location Timmins - Warehouse			1 50.0m 65° 58°	
			1 100.0m 51° 43°	
			1 150.0m 44° 36°	
			1 200.0m 36° 29°	

Remarks: Upper Au zone well altered + mineralized V.G. + interesting Cu-content. Width 8.0 m.
Lower Au zone shows best mineralization to date, some V.G., zone is 8.0 m wide as well

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm	Cu ppm	Zn ppm	Au ppm
From	To										
0	35.0	CASING - OVERBURDEN	D0969	63.5	64.5	1	n11				
35.0	36.0	BOULDERS	D0970	64.5	65.5	1	0.86				
			D0971	65.5	66.5	1	4.73				
36.0	49.5	GREEN AMYGDALOIDAL PILLOW BASALT	D0972	66.5	67	0.5	2.81				2.47
			D0973	67	68	1	0.48				
49.5	53.8	WEAKLY GRAPHITIC TUFF	D0974	68	69	1	0.03				
			D0975	91	92	1	0.03				
53.8	64.0	GREEN BASALTIC TUFF	D0976	92	93	1	0.02				
			D0977	93	94	1	n11				
64.0	68.0	CARB. + MINERALIZED TUFF	D0978	94	95	1	n11				
			D0979	95	96	1	0.65				.68
68.0	78.4	GREEN FRAGMENTAL BASALT	D0980	96	97	1	.07				
			D0981	97	98	1	.24				
78.4	82.0	WEAKLY GRAPHITIC TUFF	D0982	98	99	1	n11				
			D0983	127.2	128	0.8	0.24				
82.0	90.0	GREEN FRAGMENTAL BASALT AS ABOVE	D0984	139.5	140.5	1	0.02	n11	129	61	
			D0985	140.5	141.5	1	0.02	n11	124	62	
90.0	98.5	CHERTY GRAPHITIC TUFF	D0986	141.5	142.5	1	0.01	n11	129	70	
			D0987	142.5	143.5	1	0.02	n11	120	71	
98.5	112.3	GREEN AMYGDALOIDAL FRAGMENTAL BASALT AS ABOVE	D0988	143.5	144.5	1	17.83	2.8	244	101	29.01
			D0989	144.5	145.5	1	0.34	n11	119	68	
112.3	117.0	WEAKLY CARBONATED TUFF	D0990	145.5	146.5	1	1.5	0.2	122	77	1.3
			D0991	146.5	147.5	1	0.10	3.8	6300	4700	
117.0	123.7	MASSIVE AMYGDALOIDAL BASALT AS ABOVE	D0992	147.5	148.5	1	0.09	0.5	619	102	
			D0993	148.5	149.5	1	103.13	5.8	1100	71	06.29

Au (31.06)

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DIAMOND DRILL RECORD

Elevation: 282.8m

Hole No. 1202-01-124

Hole No. 1202-01-124 Sheet 1	Length 150.0 metres	Commenced March 13, 1982	Dip: Collar -50°	Location Sketch North ↑ Claim No. _____ Scale: _____
Property Bell Creek J.V.	Bearing North 0°	Completed March 16, 1982	Etch Test 1	
Township Hoyle	Dip -50°	Drilling Co. St. Lambert	Depth 50.0m Rdg. 55° True 47°	
Location N 5610, E 5749	Objective To follow SE trending Au - zones east along strike.	Core Size BQ	100.0m 51° 43° 150.0m 47° 39°	
Logged By A. Philipp		Casing Left/ Lost in Hole		
Core Location Timmins - Warehouse				
Remarks Upper Au zone 3.0 metres wide + strongly mineralized. Possible speck of V.G. This intercept resembles some + fault in hole 112. Lower Au zone narrow, chert-carb bands weak.				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm				
From	To										
0	29.0	CASING - OVERBURDEN	D1048	56.4	57.5	1.1	0.18				
29.0	38.5	GREEN AMYGDALOIDAL BASALT	D1049	57.5	58.5	1	nil				
			D1050	58.5	59.5	1	nil				
			D1051	59.5	60.5	1	0.71				
38.5	56.5	GREEN TUFFACEOUS BASALT	D1052	60.5	61.7	1.2	0.10				
			D1053	71.3	72.3	1	0.03				
56.5	61.7	WEAKLY GRAPHITIC TUFF	D1054	72.3	73.3	1	0.50				
			D1055	73.3	74.3	1	2.40	1.99			
61.7	72.0	GREEN SCHISTOSE FRAGMENTAL TUFF	D1056	74.3	75.3	1	0.20				
			D1057	75.3	76	0.7	0.04				
72.0	75.1	FAULT BRECCIA	D1058	76	77	1	0.05				
			D1059	77	78	1	0.47				
75.1	78.0	GREY TUFF	D1060	78	79	1	5.76	5.97			
			D1061	79	80	1	4.66	4.12			
78.0	81.0	ALTERED + MINERALIZED ZONE UPPER AU ZONE	D1062	80	81	1	10.63	10.29			
			D1063	81	82	1	0.18				
81.0	82.3	HARD BEDDED TUFF	D1064	82	83	1	0.28				
			D1065	83	84	1	0.57				
82.3	87.9	BEDDED GRAPHITE ZONE	D1066	84	85	1	0.62				
			D1067	85	86	1	0.18				
87.9	95.0	WEAKLY CARB. TUFF	D1068	86	87	1	0.24				
			D1069	87	88	1	0.27				
95.0	107.0	GREEN TUFFACEOUS BASALT	D1070	110	110.9	0.9	0.08				
			D1071	110.9	112	1.1	0.86	0.78			
107.0	114.4	WEAKLY CARB. TUFF AS ABOVE	D1072	112	113.5	1.5	nil				

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DIAMOND DRILL RECORD

Hole No. 1202-01-125

Elevation: 283.0m

Hole No. 1202-01-125 Sheet 1	Length 203.0 metres	Commenced March 16, 1982	Dip Collar -65°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0	Completed March 19, 1982	Eich Test	
Township Hoyle	Dip -65°	Drilling Co. St. Lambert	Depth Rdg. True	
Location N 5574.8, E 5718.7	Objective To follow 2 Au zones to greater depth below hole 112.	Core Size BQ	1 50.0m -66° -59° 1 100.0m -60° -53° 1 150.0m -49° -41° 1 198.0m -37° -30°	
Logged By A. Philipp	Core Location Timmins - Warehouse	Casing Left Lost in Hole		
Remarks Well mineralized + abundant V.G. in 4.0 metres upper Au zone. Strong wall rock alteration + minor V.G. Lower Au zone with good sulphides + much chert.				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Cu ppm	Au ppm
From	To								
0	29.0	CASING - OVERBURDEN	D1081	38	39	1	0.07		
			D1082	39	40	1	0.07		
29.0	30.0	GRANITE BOULDERS	D1083	40	41	1	0.05		
			D1084	41	42	1	nil		
30.0	37.6	SCHISTOSE AMYGDALOIDAL BASALT	D1085	64.7	65.2	0.5	0.17		
			D1086	89.8	90.8	1	0.11		
37.6	42.0	WEAKLY GRAPHITIC TUFF. FEW CHERT BANDS	D1087	99.7	100.9	1.2	0.41		.34
			D1088	123	124	1	0.02		
42.0	57.9	GREY SCHISTOSE TUFF	D1089	124	125	1	0.03		
			D1090	125	126	1	nil		
57.9	123.75	GREEN FRAGMENTAL TUFF - MILL ROCK (V.G.)	D1091	126	127	1	0.02		
			D1092	127	128	1	0.01		
123.75	140.7	ALTERED FRAGMENTAL HANGINGWALL - V.G.	D1093	128	129	1	0.01	118	
			D1094	129	130	1	0.01	113	
140.7	144.5	ALTERED + MINERALIZED ZONE V.G. UPPER AU ZONE	D1095	130	131	1	0.79	132	
			D1096	131	132	1	2.06	110	
144.5	158.5	ALTERED FOOTWALL ROCK V.G.	D1097	132	133	1	nil	130	
			D1098	133	134	1	nil	107	
158.5	170.9	MASSIVE ALTERED BASALT	D1099	134	135	1	0.02	127	
			D1100	135	136	1	nil	127	
170.9	173.8	TUFFACEOUS BLEACHED BASALT	D1101	136	137	1	nil	119	
			D1102	137	138	1	0.53	116	
173.8	182.6	CHERTY GRAPHITIC TUFF. LOWER AU ZONE	D1103	138	138.6	0.6	0.71	124	
			D1104	138.6	139.6	1	1.58	131	
182.6	186.2	WEAKLY GRAPHITIC TUFF	D1105	139.6	141	1.4	3.06	92	

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Hole No. 1202-01-125
Sheet No. 2

Metres		DESCRIPTION	Sample No.	From	To	Interval (metres)	Au ppm	Cu ppm	Au ppm	Au ppm	Au ppm
From	To										
186.2	203.0	MASSIVE INTERFACIOUS BASALT	D1106	141	142	1	6.52	120	7.13		
			D1107	142	143.3	1.3	71.66	31	89.29		
			D1108	143.3	144.5	1.2	5.56	137	5.83		
	203.0	END OF HOLE	D1109	144.5	145.5	1	0.65	138			
			D1110	145.5	146.5	1	0.42	125			
			D1111	146.5	147.5	1	0.83	124			
			D1112	147.5	148.5	1	0.33	121			
			D1113	148.5	149.5	1	0.33	124			
			D1114	149.5	150.2	0.7	0.54	117			
			D1115	150.2	151.2	1	4.42	271	4.18		
			D1116	151.2	152.2	1	0.69	160			
			D1117	152.2	153	0.8	0.19	182			
			D1118	153	154	1	0.33	290			
			D1119	154	155	1	3.16	129	3.33	2.06	
			D1120	155	156	1	0.28	363			
			D1121	156	157	1	1.57	552			
			D1122	157	158	1	0.03	138			
			D1123	158	159	1	0.03	140			
			D1124	159	160	1	0.04	122			
			D1125	170.8	172	1.2	2.58	141	2.54		
			D1126	172	173	1	2.47	140			
			D1127	173	174	1	2.22	219			
			D1128	174	175.5	1.5	0.48	630			
			D1129	175.5	176.5	1	0.04	169			
			D1130	176.5	177.5	1	1.77	130			
			D1131	177.5	178.5	1	1.81	100			
			D1132	178.5	179.5	1	4.46	132	3.98		
			D1133	179.5	180.5	1	4.15	136			
			D1134	180.5	181.5	1	1.34	140			
			D1135	181.5	182.5	1	1.64	138			
			D1136	182.5	183.5	1	1.61	117	1.92		
			D1137	183.5	184.5	1	0.14	121			
			D1138	184.5	186	1.5	0.10	135			

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DIAMOND DRILL RECORD

Hole No. 1202-02-126

Elevation: 287.6m

Hole No. 1202-02-126 sheet 1	Length 201.0 metres	Commenced March 19, 1982	Dip: Collar -50°	Location Sketch North ↑ Claim No. Scale
Property Bell Creek J.V.	Bearing North 0°	Completed March 21, 1982	Eich Test	
Township Hoyle	Dip -50°	Drilling Co St. Lambert	Depth Rdg True	
Location R 5675.3, E 5291.1	Objective Drill hole for assessment work requirements on staked claims plus follow Au-zones west along strike.	Core Size BQ	1 50.0m 52° 44° 1 100.0m 44° 36° 1 150.0m 37° 30° 1 201.0m 32° 25°	
Logged By A. Philipp	Core Location Timmins - Warehouse	Casing Left: Lost in Hole		
Remarks Upper Au zone - horizon was found in drill hole but is uncarbonated + unmineralized. Lower Au zone is well mineralized but is now separated by 60 metres from upper Au zone!				

Metres		DESCRIPTION	Sample No	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	18.0	CASING - OVERBURDEN	D1139	66.5	67.5	1	0.03					
			D1140	67.5	68.5	1	0.03					
18.0	21.0	BOULDERS SOME BROKEN CORE	D1141	68.5	69.5	1	0.93	1.02				
			D1142	69.5	70.5	1	0.01					
21.0	25.0	FRAGMENTED BASALT	D1143	89	89.8	0.8	0.01					
			D1144	94.5	95.5	1	0.99					
25.0	47.7	TUFFACEOUS BASALT - BRECCIA	D1145	95.5	96.5	1	nil					
			D1146	96.5	97.5	1	nil					
47.7	54.7	GREEN FRAGMENTAL BASALT	D1147	97.5	98.5	1	nil					
			D1148	98.5	99.5	1	nil					
54.7	66.6	GREEN - GREY MASSIVE BASALT	D1149	99.5	100.5	1	nil					
			D1150	100.5	101.5	1	0.01					
66.6	70.0	WEAKLY GRAPHITIC TUFF	D1151	101.5	102.5	1	nil					
			D1152	102.5	103.5	1	nil					
70.0	94.5	GREEN FRAGMENTAL TUFF	D1153	103.5	104.5	1	nil					
			D1154	104.5	105.5	1	nil					
94.5	96.4	MASSIVE CARB. ROCK	D1155	105.5	106.5	1	nil					
			D1156	106.5	108.5	1	0.03					
96.4	105.85	FINE GRAINED FRAGMENTAL - UNMINERALIZED UPPER AU HORIZON	D1157	131.6	132.6	1	0.42					
			D1158	155.1	155.5	0.4	9.06	9.06				
105.85	160.0	MASSIVE LEUCOXENE	D1159	159	160	1	0.02					
			D1160	160	161	1	1.06					
160.0	166.7	CHERTY GRAPHITIC TUFF. LOWER AU ZONE	D1161	161	162	1	0.97					
			D1162	162	163	1	1.85	2.13				
			D1163	163	164	1	0.05					

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Elevation: 283.0m

Hole No. 1202-01-127

Hole No. 1202-01-127 Property Bell Creek J.V. Township Hoyle Location N 5535.9, E 5688.2	Length 256.0 metres Bearing North 0° Dip -65° Objective To follow Au zones to greater depth below. Hole 1202-123.	Commenced March 21, 1982 Completed March 25, 1982 Drilling Co St. Lambert Core Size BQ Casing Left/Lost in Hole P.V.C.	Dip: Collar -65° Eich Test Depth Rdg. True 1 50.0m 61° 54° 1 100.0m 54° 46° 1 150.0m 46° 38° 1 200.0m 44° 36° 1 256.0m 41° 34°	Location Sketch North ↑ Claim No Scale
Logged By A. Philipp Core Location Timmins - Warehouse				
Remarks A total of 5 alteration zones were cut! 109.05 - 113.3, 131.5 - 138.3, 161.0 - 166.3, 179.3 - 182.7, 207.1 - 213.0 metres. Host rock to our usual lower Au zone is leucoxene basalt - this time!				

Metres		DESCRIPTION	Sample No	From	To	Length (metres)	Au ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	Au ppm
From	To											
0	30.7	CASING - OVERBURDEN	D1168	82	83	1	1.97					
30.7	33.0	MASSIVE MEDIUM GRAINED BASALT	D1169	83	83.6	0.6	0.03					
			D1170	109	110	1	0.22					
33.0	36.9	TUFFACEOUS BASALT - BRECCIA	D1171	110	111	1	n11					
			D1172	111	111.8	0.8	0.38					
36.9	49.2	TUFFACEOUS AMYGDALOIDAL BASALT	D1178	111.8	113.3	1.5	3.97			3.43		
			D1174	113.3	114	0.7	0.01					
49.2	53.0	WEAKLY GRAPHITIC TUFF	D1175	131.4	133	1.6	n11					
			D1176	133	134	1	0.10					
53.0	60.0	TAN CARB. ROCK	D1177	134	135	1	0.02					
			D1178	135	136	1	n11					
60.0	75.6	SCHISTOSE AMYGDALOIDAL BASALT	D1179	136	137	1	n11					
			D1180	137	138.3	1.3	2.13			1.90		
75.6	81.0	GREEN AMYGDALOIDAL BASALT	D1181	161	162	1	n11					
			D1182	162	163	1	0.63			0.51		
81.0	83.5	WEAKLY GRAPHITIC TUFF	D1183	163	164	1	0.51					
			D1184	164	165	1	0.07					
83.5	109.05	GREEN AMYGDAL. PILLOW (?) BASALT	D1185	165	166	1	1.17					
			D1186	166	167	1	0.03					
109.05	113.3	CARBONATED + MINERALIZED TUFF	D1187	177.3	178.3	1	0.17	102	52			
			D1188	178.3	179.3	1	0.06	124	99			
113.3	131.5	GREEN FRAGMENTAL BASALT	D1189	179.3	180	0.7	2.00	183	90	2.76		
			D1190	180	181	1	1921	130	51	15.57	18.11	20.57
131.5	138.3	WEAKLY GRAPHITIC + CHERTY TUFF	D1191	181	182.4	1.4	1.78	341	619			

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 1202-01-128

Elevation: 282.9m

Hole No. 1202-01-128	Length 200.0 metres	Commenced March 25, 1982	Dip Collar -65°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed March 27, 1982	Etch Test	
Township Hoyle	Dip -65°	Drilling Co St. Lambert	Depth Rdg True	
Location H 5568.3, E 5749.3	Objective To follow Au zones to greater depth below Hole 124.	Core Size BQ	1 50.0m 66° 59°	
Logged By A. Philipp		Casing Left/Lost in Hole	1 100.0m 61° 53°	
Core Location Timmins - Warehouse			1 150.0m 44° 36°	
			1 200.0m 38° 30°	

Remarks Weakly mineralized carb. rock but no concentrated upper Au zone. Leucoxene basalt flow has pinched out and only rubbly tuff remains. Specks of V.G. occur on top of lower Au zone.

Metres		DESCRIPTION	Sample No	From	To	Length (metres)	Au ppm	Au ppm			
From	To										
0	32.8	CASING - OVERBURDEN	D1214	50.5	51.5	1	nil				
32.8	38.7	WEAKLY GRAPHITIC TUFF	D1215	51.5	52.5	1	nil				
38.7	47.6	GREY SCHISTOSE BASALT	D1216	52.5	53.5	1	nil				
47.6	55.5	WEAKLY GRAPHITIC TUFF. SOME CHERT BANDS	D1217	53.5	54.5	1	0.08				
55.5	63.6	GREY + WEAKLY GRAPHITIC TUFF	D1218	54.5	55.5	1	1.52				
63.6	66.7	GREEN SCHISTOSE FRAGMENTAL	D1219	61.5	62.5	1	0.12				
66.7	87.8	WEAKLY GRAPHITIC TUFF AS ABOVE	D1220	62.5	63.6	1.1	5.63	4.73	3.84		
87.8	117.85	GREEN AMYGDALOIDAL BASALT - TUFFACEOUS	D1221	117.8	118.8	1	0.95				
117.0	121.0	WEAKLY GRAPHITIC TUFF	D1222	118.8	119.8	1	1.04				
121.0	131.2	GREEN BEDDED FRAGMENTAL TUFF	D1223	119.8	121.0	1.2	0.61				
131.2	137.0	WEAKLY GRAPHITIC TUFF	D1224	138	138	1	nil				
137.0	141.3	CARBONATED ROCK	D1225	139	140	1	nil				
			D1226	140	141.3	1.3	1.96				
			D1227	141.3	142.3	1	0.40				
			D1228	142.3	143.5	1.2	4.25				
			D1229	143.5	144.5	1	1.04				
			D1230	144.5	145.5	1	0.04				
			D1231	145.5	146.5	1	3.10				
			D1232	146.5	147.5	1	1.16				
			D1233	147.5	148.5	1	1.01				
			D1234	148.5	149	0.5	3.09	2.81			
			D1235	157.9	159.2	1.3	0.27				
			D1236	166.2	167.7	1.5	0.14				
			D1237	167.7	168.5	0.8	nil				
			D1238	168.5	169.5	1	0.08				
			D1239	169.5	170.5	1	1.19	1.51			
			* please refer to assays at end of drill hole								

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 1202-01-128 _____
Sheet No. 2 _____

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm	Au ppm			
From	To											
141.3	149.0	WEAKLY MINERALIZED CARR. ROCK. CORRESPONDING UPPER AU HORIZON	D1240	170.5	171.5	1	0.01					
			D1241	171.5	172.5	1	nil					
149.0	151.2	FRACTURED MASSIVE FOOTWALL	D1242	172.5	173.5	1	0.02					
			D1243	173.5	174.5	1	0.14					
151.2	157.5	GREENISH - GREY BEDDED TUFF	D1244	174.5	175.5	1	nil					
			D1245	175.5	176.3	0.8	1.78	2.22	1.45			
157.5	159.8	GRAPHITE TUFF - SOME LIGHT CHERT	D1246	176.3	177.3	1	5.49	5.69				
			D1247	177.3	178.5	1.2	0.01					
159.8	166.6	GREENISH - GREY FOLIATED TUFF	D1248	178.5	179.5	1	0.06					
			D1249	179.5	180.5	1	0.16					
166.6	167.7	HARD CHERTY GRAPHITIC TUFF	D1250	180.5	181.5	1	0.01					
167.7	175.4	FRACTURED + BRECCIATED TUFF										
175.4	181.5	CHERTY GRAPHITIC TUFF. V.G. LOWER AU ZONE										
181.5	200.0	GREEN MASSIVE TUFFACEOUS BASALT										
	200.0	END OF HOLE										
			*D1378	130.2	131.2	1.0	nil					
			D1379	131.2	132.2	1.0	0.1					
			D1380	132.2	133.2	1.0	0.6	0.49				
			D1381	133.2	134.2	1.0	.03					
			D1382	134.2	135.2	1.0	.06					
			D1383	135.2	136.2	1.0	.13					
			D1384	136.2	137.2	1.0	.07					
			D1385	137.2	138.0	.8	nil					

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Elevation: 282.8m

Hole No. 1202-01-129

Hole No. 1202-01-129	Length 204.0 metres	Commenced March 28, 1982	Dip Collar -65°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed March 30, 1982	Ech Test	
Township Hoyle	Dip -65°	Drilling Co. St. Lambert	Depth Rdg. True	
Location N 5568.3, E 5780.4	Objective To follow Au zones east on strike. (Most easterly hole to date on North zone).	Core Size BQ	1 37.0m 68° 61°	
Logged By A. Philipp		Casing Left/Lost in Hole	1 50.0m 68° 61°	
Core Location Timmins - Warehouse			1 100.0m 58° 50°	
			1 150.0m 51° 43°	
			1 204.0m 44° 36°	
Remarks 6 metre wide upper zone with some V.G. near top of section. Changed appearance of upper zone now has abundant graphite-chert-sulphide mixture. Lower Au zone now is less graphitic, narrow and with less mineralization.				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	32.0	CASING - OVERBURDEN	D0701	99	100	1	n11					
32.0	35.0	CORE FROM DIFFERENT BOULDERS	D0702	100	101	1	0.02					
35.0	48.0	SCHISTOSE + OXIDIZED BASALT - FRACTURE ZONE	D0703	101	102	1	0.04					
48.0	60.0	TUFFACEOUS BASALT	D0704	102	103	1	0.01					
60.0	99.0	GREEN SCHISTOSE FRAGMENTAL	D0705	103	104	1	1.68	2.06				
99.0	103.5	WEAKLY GRAPHITIC TUFF	D0706	121	122	1	0.11					
103.5	120.0	GREEN FRAGMENTAL BASALT	D0707	122	123	1	0.20					
120.0	124.1	WEAKLY GRAPHITIC TUFF	D0708	123	124	1	0.04					
124.1	129.7	CHLORITIC FRAGMENTAL	D0709	133.2	134.2	1	0.05					
129.7	135.2	GREENISH-GREY FINE GRAINED TUFF	D0710	134.2	135.2	1	0.01					
135.2	141.5	GRAPHITIC MINERALIZED ZONE V.G. UPPER AU ZONE	D0711	135.2	136.2	1	0.03					
141.5	145.6	WEAKLY GRAPHITIC TUFF	D0712	136.2	137.2	1	2.91	2.28				
145.6	162.6	CARBONATED TUFFACEOUS BASALT	D0713	137.2	138	0.8	5.12	5.69				
			D0714	138	139	1	0.54					
			D0715	139	140	1	0.37					
			D0716	140	141	1	0.31					
			D0717	141	142	1	0.82	0.69				
			D0718	142	143	1	0.03					
			D0719	143	144	1	0.01					
			D0738	172.4	173.4	1	0.01					
			D0739	173.4	174.5	1.1	0.19					
			D0740	174.5	175.5	1	0.17					
			D0741	175.5	176.75	1.25	1.71	1.78				
			D0742	176.75	178	1.25	0.03					
			D0743	178	179	1	n11					

Elevation: 283.4 metres

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 1202-01-132

Hole No. 1202-01-132	Length 240.0 metres	Commenced June 14, 1982	Dip: Collar -60°	Location Sketch
Property Bell Creek J.V.	Bearing North 0°	Completed June 19, 1982	Ech Test	
Township Hoyle	Dip -60°	Drilling Co. St. Lambert	Depth	
Location N 5560.2 approx. E 5596.3	Objective To follow Au horizon to greater depth below hole 118.	Core Size BQ	Rdg.	
Logged By P. Philipp		Casing Left/ Lost in Hole Plastic casing down to bedrock.	True	
Core Location Hoyle - Camp site			1 60.0m -62° -55° 2 120.0m -53° -45° 3 171.0m -45° -37° Tropert; 210.0m -32°	
Remarks	Upper Au horizon is very narrow: 1.1 metres and alteration is weak. But abundant VG occurs which may keep intercept above cut off values.		Tropert test @ 210m - Compass locked at 357.5° - 10° declina- tion = 347.5° Azimuth! Direction of hole.	

Metres		DESCRIPTION	Sample No	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	23.30	CASING - OVERBURDEN	D0790	23.3	24	0.7	nil					
23.30	25.00	WEAKLY GRAPHITIC TUFF	D0791	24	25	1	0.02					
			D0792	25	26	1	0.02					
25.00	34.50	SCHISTOSE BASALT (CARBONATE BEDS)	D0793	26	27	1	nil					
			D0794	27	28	1	0.06					
34.50	46.50	TUFFACEOUS SCHISTOSE BASALT	D0795	28	29	1	nil					
			D0796	29	30	1	0.01					
46.50	51.80	GREEN FRAGMENTAL TUFF	D0797	30	31	1	0.03					
			D0798	31	32	1	0.85	1.03				
51.80	55.40	WEAKLY GRAPHITIC TUFF OR ASH	D0799	32	33	1	0.04					
			D0800	33	34	1	0.03					
55.40	63.40	GREEN FRAGMENTAL TUFF - AS ABOVE	D0801	34	35	1	0.03					
			D0802	35	36	1	nil					
63.40	101.80	GRAPHITIC BASALT BRECCIA	D0803	54	55	1	0.69					
			D0804	84.8	86.3	1.5	2.27	2.13				
101.80	106.00	WEAKLY GRAPHITIC TUFF	D0805	89.6	90.	0.5	0.03					
			D0806	101	102	1	0.04					
106.00	114.00	GRAPHITIC BASALT BRECCIA	D0807	102	103	1	0.26					
			D0808	103	104	1	0.02					
114.00	121.45	AMYGDALOIDAL FRAGMENTAL TUFF	D0809	104	105	1	0.32					
			D0810	105	106	1	0.04					
121.45	123.50	WEAKLY GRAPHITIC TUFF - V.G.	D0811	121	122	1	0.18					
			D0812	122	123.5	1.5	3.22	2.81				
			D0813	123.5	124.5	1	nil					

AMAX MINERALS EXPLORATION
(A Division of Amex of Canada Limited)
DIAMOND DRILL RECORD

Elevation: 283.0 metres

Hole No. 1202-01-133

Hole No. 1202-01-133 sheet 1	Length 222.0 metres	Commenced June 21, 1982	Dip Collar -60°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed June 24, 1982	Etch Test	
Township Hoyle	Dip -60°	Drilling Co. St. Lambert	Depth Rdg. True	
Location N 5550.8 approximately E 5660.2	Objective To test down-dip extension of upper Au-horizon below hole 1202-01-121.	Core Size BQ	1 60.0m -63° -56° 2 120.0m -58° -50° 3 177.0m -48° -40°	
Logged By A. Philipp		Casing Left: Lost in Hole plastic casing to bedrock	Properi: 190.0m -39° 221.0m -36°	
Core Location Hoyle - Camp site			" Deflection of hole Azimuth 190.0m = 353° 221.0m = 350°	
Remarks Upper Au horizon with 0.6 metre wide vein with abundant V.G. Sulphide mineralization confined to less than 3.0 metres in width. Lower Au horizon narrow but good py, chert-carb. + graphite. Re-occurrence of cherty graphite zone with VG from 112.9-119.1				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	31.35	CASING - OVERBURDEN	D0834	31.35	33	1.65	1.20					
31.35	34.00	GRAPHITIC TUFF OR ASH	D0835	33	34.5	1.5	0.02					
34.00	37.50	BEDDED TUFF	D0836	34.5	36	1.5	0.12					
37.50	48.00	SCHISTOSE AMYGDALOIDAL TUFF	D0837	36	37.5	1.5	0.03					
48.00	61.50	GREEN AMYGDALOIDAL TUFF	D0838	47	48	1	1.30	1.30				
61.50	69.00	WEAKLY GRAPHITIC + SCHISTOSE TUFF	D0839	61	62	1	0.02					
69.00	81.10	GREEN AMYGDALOIDAL TUFF - AS ABOVE	D0840	62	63	1	0.01					
81.10	92.00	ALTERED BASALTIC FLOW	D0841	63	64	1	n11					
92.00	97.00	FRACTURED BASALTIC TUFF OR ASH	D0842	64	65	1	0.09					
97.00	100.80	GREEN BEDDED FRAGMENTAL TUFF	D0843	65	66	1	0.01					
100.80	107.80	FRACTURED BASALTIC TUFF OR ASH - AS ABOVE	D0844	73.5	74.5	1	n11					
107.80	112.90	ALTERED BASALTIC FLOW - AS ABOVE	D0845	74.5	75.5	1	0.18					
			D0846	111.8	112.8	1	n11					
			D0847	112.8	114.2	1.4	0.05					
			D0848	114.2	115.2	1	0.18	0.19				
			D0849	115.2	116.2	1	5.01	5.56				
			D0850	116.2	117.2	1	0.26					
			D0851	117.2	118.2	1	0.03					
			D0852	118.2	119.2	1	0.05					
			D0853	119.2	120.0	0.8	n11					
			D0854	127	128	1	0.19					
			D0855	128	129	1	0.88					
			D0856	129	130	1	0.03					
			D0857	149.8	151.3	1.5	0.06					

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Elevation: 283.0 metres

Hole No. 1202-01-134

Hole No. 1202-01-134	Length 273.0 metres	Commenced June 25, 1982	Dip: Collar -70°	Location Sketch North ↑ Claim No. _____ Scale: _____
Property Bell Creek J.V.	Bearing North 0°	Completed June 30, 1982	Each Test Depth Rdg. True	
Township Hoyle	Dip -70°	Drilling Co. St. Lambert	1. Acid 60.0m -71° -65°	
Location N 5514.6 approximately E 5689.0	Objective To follow Au horizon to greater depth below hole 127.	Core Size BQ	2. Troperi 120.0m N04°E -59°	
Logged By A. Philipp		Casing Left: Lost in Hole plastic casing down to bedrock.	3. Troperi 190.0m Az 358° -49°	
Core Location Hoyle - Camp site			4. Troperi 240.0m Az 356° -42°	
Remarks: Upper Au-horizon is 4.0 metres wide, well mineralized + altered and fine specks of VG occur throughout, cherty quartz marker occurs at end of horizon. Low Au-horizon is well mineralized as well and fine specks of V.G. occur locally.				

Metres		DESCRIPTION	Sample No	From	To	Length (metres)	Au ppm	Au ppm			
From	To										
0	31.50	CASING - OVERBURDEN	D0875	68.7	69.7	1	0.03				
31.50	35.20	MASSIVE BASALT FLOW	D1251	72	73	1	n11				
35.20	41.40	GREEN AMYGDALOIDAL TUFF	D1252	73	74	1	n11	4.39			
41.40	54.40	MASSIVE BASALT FLOW - AS ABOVE	D1253	74	75	1	0.11				
54.40	63.70	GREEN AMYGDALOIDAL TUFF	D1254	75	76	1	0.28				
63.70	65.70	DARK-GREEN SCHISTOSE BASALT	D1255	120	121	1	n11				
65.70	76.50	TUFFACEOUS BASALT BRECCIA	D1256	121	122	1	n11				
76.50	86.50	SCHISTOSE FRAGMENTAL TUFF	D1257	122	123	1	4.03	3.98			
86.50	88.00	WEAKLY GRAPHITIC TUFF	D1258	123	124	1	0.06				
88.00	90.20	WEAKLY CARBONATED TUFF	D1259	125	126	1	0.15				
90.20	107.00	GREEN FRAGMENTAL TUFF	D1260	135.3	136.3	1	0.09				
107.00	121.20	BEDDED TUFF	D1261	136.3	137.3	1	4.89				
			D1262	137.3	138	0.7	10.29	11.52			
			D1263	138	139	1	3.47				
			D1264	139	140	1.1	0.16				
			D1265	140	141	1	0.40				
			D1266	141	142	1	n11				
			D1267	142	143	1	n11				
			D1268	143	144	1	n11				
			D1269	144	145	1	n11				
			D1270	145	146	1	0.72	1.11			
			D1271	146	147	1	0.02				
			D1272	152	153	1	0.75				
			D1273	153	154	1	0.33				
			D1274	154	155	1	0.01				
			D1275	155	156	1	0.03				

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 1202-01-134
Sheet No. 2

Metres		DESCRIPTION	Sample No.	From	To	Depth (metres)	Au ppm	Au ppm				
From	To											
121.20	125.10	WEAKLY GRAPHITIC TUFF										
125.10	137.30	GREEN AMYGDALOIDAL TUFF	D1276	156	157.6	1.6	1.56					
			D1277	157.6	158.6	1	0.10					
137.30	141.90	ALTERED + CARBONATED FRAGMENTAL - V.G.	D1278	158.6	159.9	1.3	3.49	3.77				
			D1279	159.9	160.9	1	0.07					
141.90	147.90	WEAKLY GRAPHITIC TUFF	D1280	180.8	181.8	1	2.12	2.74				
			D1281	209	210	1	0.02					
147.90	152.40	SCHISTOSE FRAGMENTAL	D1282	210	211	1	0.01					
			D1283	211	212	1	0.01					
152.40	155.80	WEAKLY GRAPHITIC TUFF	D1284	212	213	1	0.05					
			D1285	213	214	1	0.20					
155.80	159.90	CARBONATED FRAGMENTAL TUFF	D1286	214	215	1	0.04					
			D1287	215	216	1	0.02					
159.90	179.70	GREEN FRAGMENTAL TUFF	D1288	216	217	1	0.02					
			D1289	217	218	1	0.32					
179.70	183.10	WEAKLY GRAPHITIC TUFF	D1290	218	219	1	0.40	0.37				
			D1291	219	220	1	0.17					
183.10	195.70	GREEN FRAGMENTAL TUFF	D1292	220	221	1	0.06					
			D1293	221	222	1	0.03					
195.70	199.50	MASSIVE BASALT - FLOW	D1294	222	223	1	0.03					
			D1295	223	224.5	1.5	0.25					
199.50	208.50	GREEN FRAGMENTAL TUFF	D1296	224.5	225.5	1	1.45	1.29				
			D1297	225.5	226.5	1	2.22	2.23				
208.50	212.50	CARB. FRAGMENTAL TUFF	D1298	226.5	227.5	1	3.70	4.22				
			D1299	227.5	228.5	0.8	10.83	10.43				
212.50	213.80	WEAKLY GRAPHITIC TUFF	D1300	228.5	229.5	1	4.39	5.25				
			D1301	229.5	230.5	1	0.61					
213.80	222.90	CARB. FRAGMENTAL HANGINGWALL	D1302	230.5	231.7	1.4	0.16					
			D1303	231.7	232.7	1	1.19					
222.90	224.70	WEAKLY GRAPHITIC CARB. TUFF	D1304	232.7	233.7	1	0.10					
			D1205	258	259.5	1.5	0.04					
224.70	229.10	CARB. + MINERALIZED UPPER AU HORIZON - V.G.	D1306	259.5	260.5	1	0.67	0.99				
			D1307	260.5	261.5	1	0.25					
229.10	232.60	CARBONATED FOOTWALL	D1308	261.5	262.5	1	0.47					
			D1309	262.5	263.5	1	1.70	1.72				
			D1310	263.5	264.5	1	1.52					
			D1311	264.5	265.5	1	0.03					
			D1312	265.5	266.5	1	0.16					

Elevation: 283.0 metres

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 1202-01-135

Hole No. 1202-01-135 Sheet 1	Length 270.0 metres	Commenced August 4, 1982	Dip: Collar -70°	Location Sketch North ↑ Claim No. _____ Scale: _____
Property Bell Creek J.V.	Bearing North 0°	Completed August 10, 1982	Eich Test Depth Rdg. True	
Township Hoyle	Dip -70°	Drilling Co. St. Lambert	Acid test 60.0m -62°	
Location N 5513.5 approximately E 5749.4	Objective To follow Au horizons to greater depth below hole 128.	Core Size BQ	Troperl 120.0m -62°	
Logged By A. Philipp		Casing Left Lost in Hole Plastic casing down to bedrock.	180.0m -53°	
Core Location Hoyle - Camp site			240.0m -33°	
			Acid 240.0m -32.5°	
Remarks 2.0 metre wide upper Au horizon looks improved over hole 128 above and cherty quartz marker vein has reappeared although no VG was noted. Horizon might just meet our cut off values! Lower Au horizon is well mineralized over 4.0 metres.			Troperl 120.0m Az: North 0°	
			180.0m Az: 357°	
			" 240.0m Az: 344°	

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm			
From	To										
0	28.10	CASING - OVERBURDEN	D1313	57.2	58.2	1	0.03				
28.10	32.30	GREEN WEAKLY BRECCIATED TUFF	D1314	58.2	59.2	1	0.01				
			D1315	59.2	60.2	1	nil				
32.30	57.00	GREEN AMYGDALOIDAL TUFF	D1316	60.2	61.7	1.5	0.02				
			D1317	61.7	62.7	1	1.15	1.58			
57.00	62.70	TUFFACEOUS BASALT BRECCIA	D1318	62.7	63.9	1.2	0.03				
			D1319	75	76.2	1.2	nil				
62.70	76.20	GREEN AMYGDALOIDAL TUFF - AS ABOVE	D1320	76.2	77	0.8	0.99				
			D1321	77	78.3	1.3	0.39				
76.20	78.60	WEAKLY CARBONATED TUFF	D1322	78.3	79.3	1	0.03				
			D1323	104.5	105.5	1	0.01				
78.60	85.60	GREEN AMYGDALOIDAL TUFF - AS ABOVE	D1324	105.5	106.5	1	0.04				
			D1325	106.5	107.5	1	0.19				
85.60	93.30	WEAKLY SCHISTOSE TUFF	D1326	115	116.1	1.1	0.37				
			D1327	116.1	117	0.9	0.01				
93.30	103.60	GREEN AMYGDALOIDAL TUFF - AS ABOVE	D1328	117	118	1	0.47				
			D1329	118	119	1	0.23				
103.60	107.50	ALTERED BEDDED FRAGMENTAL	D1330	119	120	1	0.01				
			D1331	142.9	144.4	1.5	0.03				
107.50	116.10	GREENISH GREY AMYGDALOIDAL TUFF	D1332	144.4	146.3	1.9	1.45	1.10			
			D1333	149.6	150.6	1	0.52				
116.10	121.00	WEAKLY GRAPHITIC - CHERTY TUFF	D1334	150.6	151.6	1	0.27				
			D1335	151.6	152.6	1	0.19				
121.00	139.20	GREENISH GREY FRAGMENTAL TUFF	D1336	152.6	153.2	0.6	0.72				
			D1337	180	181	1	0.03				

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 1202-01-135
Sheet No. 2

Metres		DESCRIPTION	Sample No.	From	To	Length						
From	To											
139.20	142.00	ALTERED MASSIVE BASALT FLOW	D1338	181	182	1	0.01					
			D1339	182	183	1	0.42					
142.00	153.20	INTERMITTENT WEAKLY GRAPHITIC TUFF	D1340	183	184	1	0.32					
			D1341	184	185	1	0.52					
153.20	171.20	GREEN SCHISTOSE BASALT FLOW	D1342	185	186	1	0.26					
			D1343	186	187	1	0.07					
171.20	180.70	GREEN AMYGDALOIDAL TUFF	D1344	187	188.2	1.2	2.36					
			D1345	188.2	190	0.8	0.12					
180.70	188.10	WEAKLY GRAPHITIC TUFF - CHERTY CARB. BEDS	D1346	192.3	193.8	1.5	2.79	1.85				
			D1347	210.4	211.4	1	0.03					
183.10	198.40	BEDDED AND ALTERED FRAGMENTAL TUFF	D1348	211.4	212.4	1	0.19					
			D1349	212.4	213.4	1	2.35	2.38	VG			
193.30	211.40	GREEN AMYGDALOIDAL TUFF	D1350	213.4	214.4	1	7.13	7.13				
			D1351	214.4	216	1.6	4.21	4.46				
211.40	219.70	WEAKLY GRAPHITIC + MINERALIZED ZONE V.G.	D1352	216	217.5	1.5	0.16					
			D1353	217.5	219	1.5	0.23					
219.70	228.80	CARBONATED HANGINGWALL V.G.	D1354	219	220	1	0.04					
			D1355	220	221	1	0.01					
228.80	230.80	CARBONATED + MINERALIZED UPPER AU HORIZON - V.G.	D1356	221	222	1	nil					
			D1357	222	223	1	nil					
230.80	258.50	TUFFACEOUS BASALT	D1358	223	224	1	nil					
			D1359	224	225	1	0.06					
258.50	260.60	FRAGMENTAL TUFF V.G.	D1360	225	225.8	0.8	0.07					
			D1361	225.8	226.8	1	0.22					
260.60	266.30	CHERTY GRAPHITIC TUFF - LOWER AU HORIZON	D1362	226.8	227.8	1	1.28	0.89	VG			
			D1363	227.8	228.8	1	0.18					
266.30	270.00	GREEN FRAGMENTAL TUFF	D1364	228.8	229.8	1	2.70	2.61	VG			
			D1365	229.8	230.8	1	2.85	2.68	VG			
	270.00	END OF HOLE	D1366	230.8	231.8	1	0.03					
			D1367	231.8	232.8	1	0.01					
			D1368	257.5	258.5	1	0.05					
			D1369	258.5	259.5	1	0.74	0.71	VG			
			D1370	259.5	260.5	1	0.07					
			D1371	260.5	261.5	1	0.34					
			D1372	261.5	262.5	1	0.33					
			D1373	262.5	263.5	1	0.51					
			D1374	263.5	264.5	1	1.98	1.51				
			D1375	264.5	265.5	1	0.37					
			D1376	265.5	266.5	1	0.22					
			D1377	266.5	267.5	1	0.01					

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Elevation: 283.0 metres

Hole No. 1202-01-136

Hole No. 1202-01-136 Sect 1	Length 291.0 metres	Commenced August 11, 1982	Dip Collar -70°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed August 17, 1982	Etch Test Depth Rdg True	
Township Hoyle	Dip -70°	Drilling Co. St. Lambert	Troperl: 60m -70°	
Location N 5515.6 approximately E 5810.4	Objective To follow Au horizons to east on strike and at greater depth. (1. Hole on this section.	Core Size BQ	" 120m -59°	
Logged By A Philipp		Casing Left/ Lost in Hole plastic pipes to bedrock.	" 180m -45°	
Core Location Hoyle - Camp Site			" 260m -33°	

Remarks Upper Au horizon is from 4-5 metres wide as it's main mineralized section containing fair chert-carbonates and sulphides and 1 small speck of VG. Two more mineralized zones occur above. Lower Au horizon is poorly mineralized is in hole 129. Note that upper Au horizon moved North.

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
0	39.50	CASING - OVERBURDEN	D1386	84.2	85.2	1	0.02					
39.50	45.00	BROWN + HEMATITE-RED MIXED - DECOMPOSED GRAPHITIC ROCK	D1387	85.2	86.2	1	0.66	0.78	VG			
45.00	54.50	FRACTURED GRAPHITIC BASALT BRECCIA	D1388	86.2	87.6	1.4	0.78	0.85				
54.50	72.40	GREEN MASSIVE BASALT OR ANDESITE	D1389	87.6	88.7	1.1	0.12					
72.40	78.00	GREEN FRAGMENTAL TUFF	D1390	95	96	1	nil					
78.00	126.60	GRAPHITIC TUFF BRECCIA	D1391	96	97	1	0.01					
126.60	130.90	BEDDED GRAPHITIC TUFF GOOD SULPHIDE MINERALIZATION	D1392	97	98	1	0.20					
130.90	150.00	ALTERED FRAGMENTAL TUFF	D1393	100.8	102	1.2	nil					
150.00	191.30	GREEN AMYGDALOIDAL TUFF	D1394	102	103.3	1.3	nil					
191.30	195.30	ALTERED BEDDED FRAGMENTAL	D1395	125.6	126.6	1	0.03					
195.30	203.70	CARBONATED AND MINERALIZED ZONE	D1396	126.6	127.6	1	0.10					
203.70	214.90	ALTERED FRAGMENTAL TUFF	D1397	127.6	128.6	1	0.15					
			D1398	128.6	129.6	1	0.14					
			D1399	129.6	130.6	1	0.16					
			D1400	130.6	131.6	1	0.04					
			D1401	195	196.7	1.7	0.10					
			D1402	196.7	198.0	1.3	1.81	1.92				
			D1403	198	199.3	1.3	2.10					
			D1404	199.3	200.5	1.2	0.82					
			D1405	200.5	202.3	1.8	0.46					
			D1406	202.3	203.7	1.4	0.47					
			D1407	203.7	204.7	1	0.02					
			D1408	242.7	243.7	1	0.03					
			D1409	243.7	244.7	1	0.03					

AMAX MINERALS EXPLORATION
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Elevation: 283.0 metres

DIAMOND DRILL RECORD

Hole No. 54045-01-137

Hole No. 54045-01-137	Length 288.0 metres	Commenced August 18, 1982	Dip Collar -70°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed August 25, 1982	Eich Test	
Township Hoyle	Dip -70°	Drilling Co. St. Lambert	Depth Rdg. True	
Location N 5514.8 approximately E 5856.1	Objective To follow Au Horizon to the east on strike and to greater depth. (1. Hole on this section).	Core Size BQ	Troperi 60.0m -68° " 120.0m -58° " 190.0m -48° " 249.0m -35°	
Logged By A. Philipp		Casing Left/Lost in Hole Plastic pipes to Bedrock.		
Core Location Hoyle - Camp site				

Remarks: As in hole 136, the here marked stratigraphic locations for the upper and lower Au horizon are somewhat suspected and drill cores will be rechecked. Note the changed hangingwall geology: Leucoxene basalt or related rocks down to 225.9m instead the usual fragments.

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm			
From	To										
0	34.50	CASING - OVERBURDEN	D1422	68	69	1	0.03				
			D1423	69	70	1	0.01				
34.50	54.00	GRAPHITIC BASALT BRECCIA	D1424	70	71	1	0.02				
			D1425	73.7	74.7	1	0.03				
54.00	68.50	MASSIVE LEUCOXENE BASALT	D1426	152.2	153.1	0.9	0.39	0.23			
			D1427	164.7	165.7	1	0.02				
68.50	75.00	BEDDED WEAKLY GRAPHITIC TUFF	D1428	165.7	166.7	1	0.21				
			D1429	166.7	167.7	1	0.02				
75.00	110.00	MASSIVE FRACTURED BASALT	D1430	167.7	168.7	1	0.01				
			D1431	168.7	169.7	1	n11				
110.00	128.50	GREEN MASSIVE BASALT	D1432	169.7	170.7	1	n11				
			D1433	170.7	171.7	1	n11				
128.50	135.50	FRACTURED BASALT	D1434	171.7	172.7	1	0.03				
			D1435	172.7	173.7	1	n11				
135.50	165.70	GREEN MASSIVE BASALT - AS ABOVE	D1436	173.7	174.7	1	n11				
			D1437	174.7	175.7	1	0.08				
165.70	178.70	WEAKLY GRAPHITIC CHERTY TUFF	D1438	175.7	176.7	1	n11				
			D1439	176.7	177.7	1	0.04				
178.70	180.50	CARBONATED + MINERALIZED ZONE - VG	D1440	177.7	178.7	1	0.37				
			D1441	178.7	179.7	1	1.50	1.51			
180.50	186.00	CARBONATED MASSIVE FOOTWALL BASALT - VG	D1442	179.7	180.7	1	3.61	2.83	VG		
			D1443	180.7	181.7	1	0.89				
			D1444	181.7	182.7	1	0.23				
186.00	192.00	WEAKLY CARBONATED BASALT	D1445	182.7	183.7	1	2.68				
			D1446	183.7	184.7	1	0.11				

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 54045-01-137
Sheet No. 2

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
192.00	195.30	FRACTURED WEAKLY GRAPHITIC BASALT	D1447	184.7	185.7	1	0.82	0.80				
			D1448	185.7	186.7	1	nil					
			D1449	186.7	187.7	1	nil					
195.30	225.90	ALTERED + WEAKLY CARBONATED LEUCOXENE BASALT	D1450	192	193	1	nil					
			D1451	193	194	1	0.03					
225.90	236.60	CARBONATED FRAGMENTAL HANGINGWALL	D1452	194	195	1	nil					
			D1453	195	196	1	nil					
236.60	242.70	CARBONATED + MINERALIZED UPPER AU HORIZON -VG	D1454	196	197	1	nil					
			D1455	197	198	1	nil					
242.70	251.00	CARBONATED FOOTWALL	D1456	198	199	1	0.06					
			D1457	199	200	1	0.78	0.88				
			D1458	200	201	1	0.13					
251.00	261.30	GREEN FRAGMENTAL TUFF OR AGGLOMERATE	D1459	201	202	1	0.02					
			D1460	202	203	1	0.01					
261.30	272.50	GREEN MASSIVE BASALT	D1461	203	204	1	0.03					
			D1462	204	205	1	0.29					
272.50	275.00	GRAPHITIC TUFFACEOUS ROCK	D1463	205	206	1	0.23					
			D1464	206	207	1	0.08					
275.00	284.70	GREEN AMYGDALOIDAL FRAGMENTAL	D1465	207	208	1	0.16					
			D1466	208	209	1	0.03					
284.70	286.90	WEAKLY GRAPHITIC CHERTY TUFF - LOWER AU HORIZON	D1467	218.3	219.7	1.4	0.11					
			D1468	234.6	235.6	1	nil					
			D1469	235.6	236.6	1	0.02					
	288.00	END OF HOLE	D1470	236.6	238	1.4	0.44	0.41				
			D1471	238	239	1	0.20					
			D1472	239	240	1	0.40	0.64	VG			
			D1473	240	241	1	1.06	1.49				
			D1474	241	242	1	0.81					
			D1475	242	243	1	0.35	0.40	VG			
			D1476	243	244	1	0.11					
			D1477	244	245	1	0.02					
			D1478	245	246	1	0.04					
			D1479	246	247	1	0.32	0.25				
			D1480	284	285	1	0.01					
			D1481	285	286	1	0.02					
			D1482	286	287	1	0.04					

AMAX MINERALS EXPLORATION
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Drilling on old picket line 44+00E
Elevation: 291.4 metres approximately

DIAMOND DRILL RECORD

Hole No 045-02-138

Hole No 045-02-138 Sheet 1	Length 183.0 metres	Commenced August 26, 1982	Dip: Collar -50°	<p>Location Sketch</p> <p>Collar: P.515782 Claim No P.515781</p>
Property Bell Creek J.V.	Bearing North 0°	Completed August 29, 1982	Eich Test	
Township Hoyle	Dip -50°	Drilling Co. St. Lambert	Depth Rdg True	
Location N 5676.8 approx. E 5045.2	Objective To drill a section across an IP anomaly and search for Au horizons along strike with the Groulan Reef Au horizons.	Core Size BQ	Troper 60.0m -46° " 120.0m -38° " 159.0m -34°	
Logged By A. Philipp	Casing Left Lost in Hole Plastic pipes to bedrock.			
Core Location Hoyle Camp Site				
Remarks Country rock is mainly basalt with some narrow tuff beds. Some narrow weakly carbonated + mineralized zones do occur and rock does by no means look dead! Zone from 162.3 - 171.1 appears to be our upper au horizon!				

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	As ppm	As ppm
From	To								
0	22.20	CASING - OVERBURDEN	D1483	39.0	40.3	1.3	0.10		
22.20	30.00	MAFIC + INTERMEDIATE TUFF	D1484	40.3	41.8	1.2	0.07		
			D1485	41.5	42.8	1.0	0.01		
			D1486	42.5	43.8	1.0	0.10		
30.00	42.50	WEAKLY ALTERED BASALT	D1487	43.5	44.8	1.0	0.47		
			D1488	44.5	45.8	1.0	0.14		
42.50	45.50	CARBONATED + MINERALIZED ALTERATION ZONE	D1489	45.5	46.8	1.0	0.54	0.47	
			D1490	46.5	47.8	1.0	0.04		
45.50	47.50	GRAPHITIC FRACTURE ZONE	D1491	70.5	72.0	1.5	0.04		
			D1492	72.0	73.1	1.1	0.03		
47.50	60.50	MASSIVE LEUCOXENE BASALT	D1493	73.1	74.6	1.5	0.03		
			D1494	74.6	75.8	1.0	0.22		
60.50	70.60	BEDDED MAFIC TUFF OR ASH	D1495	75.6	76.6	1.0	n11		
			D1496	76.6	77.6	1.0	n11		
70.60	82.00	WEAKLY GRAPHITIC TUFFACEOUS BASALT	D1497	77.6	78.6	1.0	0.01		
			D1498	78.6	79.8	1.0	0.03		
82.00	90.00	GREEN MASSIVE BASALT	D1499	79.6	80.8	1.0	0.02		
			D1500	80.6	81.6	1.0	0.02		
90.00	94.30	ALTERED MASSIVE BASALT	D1501	81.6	82.6	1.0	0.01		
			D1502	93.0	94.0	1.0	0.03		33
94.30	95.00	CARB. + MINERALIZED ALTERATION ZONE	D1503	94.0	95.0	1.0	0.06		15
			D1504	95.0	96.0	1.0	0.07		53
95.00	102.50	MASSIVE WEAKLY ALTERED BASALT	D1505	96.0	97.0	1.0	n11		45
			D1506	97.0	98.0	1.0	0.05		34

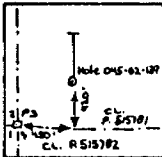
AMAX MINERALS EXPLORATION

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Drilling on old picket line 44 + 00 E
Elevation: 291.8 metres approximately

DIAMOND DRILL RECORD

Hole No. 045-02-139

Hole No. 045-02-139 Sheet 1	Length 117.0 metres	Commenced August 29, 1982	Dip: Collar -50°	Location Sketch North 
Property Bell Creek J.V.	Bearing North 0°	Completed September 1, 1982	Ech Test Depth Rdg. True	
Township Hoyle	Dip -50°	Drilling Co. St. Lambert	Troperl: 60m -48°	
Location N 5814.0 approx. E 5047.6	Objective To drill a section across an IP anomaly and search for Au horizons striking west from Broulan Reef.	Core Size BQ	" 110m -43°	
Logged By A. Philipp		Casing Left: Lost in Hole Plastic pipes down to bedrock. Hole is making water!!	Troperl: 60m Az. N 4.5°	
Core Location Hoyle Camp Site			" 110m Az. 355°	

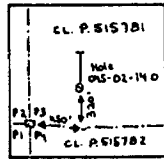
Remarks: The upper and lower Au horizons striking about 285° were located. Upper horizon intercept was too close to surface resulting in some broken + ground core. Fuchsite is now present in the lower horizon. Both horizons have good sulphides associated to account for IP + mag-anomalies.

Metres		DESCRIPTION	Sample No	From	To	Length (metres)	Au ppm	As ppm	S ppm
From	To								
0	22.00	CASING - OVERBURDEN	D1526	22	24	2	0.03		51
22.00	29.00	WEAKLY GRAPHITIC + MINERALIZED HORIZON (UPPER AU HORIZON?)	D1527	24	25	1	0.03		68
			D1528	25	27	2	0.10		59
29.00	61.70	GREEN MASSIVE BASALT - FLOW (LEUCOXENE)	D1529	27	28	1	0.48		79
			D1530	28	29	1	0.02		46
61.70	79.20	LIGHT GREEN MASSIVE BASALT OR ANDESITE	D1531	29	30	1	n11		21
			D1532	84	85	1	n11		36
79.20	85.25	ALTERED TUFFACEOUS BASALT	D1533	85	86	1	0.09		36
			D1534	86	87	1	0.14		16
85.25	89.50	CARBONATED + MINERALIZED FRAGMENTAL	D1535	87	88.5	1.5	0.22		100
			D1536	88.5	89.5	1	0.03		111
89.50	90.60	FINE GRAINED STRONGLY GRAPHITIC TUFF	D1537	89.5	90.6	1.1	0.31		53
			D1538	90.6	91.6	1	0.03		29
90.60	117.00	TUFFACEOUS BASALT							
	117.00	END OF HOLE							

AMAX MINERALS EXPLORATION
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Drilling on ole picket line 44+00E
Elevation: 291.8 metres approximately **DIAMOND DRILL RECORD**

Hole No. 045-02-140

Hole No. 045-02-140	Length 100.5 metres	Commenced September 1, 1982	Dip: Collar -60°	Location Sketch North 
Property Bell Creek J.V. Township Hoyle Location N 5783.5 approx. E 5047.0 Logged By A. Philipp Core Location Hoyle Camp Site	Bearing North 0 Dip -60° Objective To drill a 3. hole on same section and under Hole 139 in order to get another sample of upper Au horizon.	Completed September 2, 1982 Drilling Co. St. Lambert Core Size BQ Casing Left Lost in Hole Plastic pipes down to bedrock.	Eich Test Depth Rdg True Tropert: 51.0m -54° " 90.0m -48° Tropert: 51.0m Az. 351.0° " 90.0m Az. 347.5°	

Remarks This hole verified the presence of the upper Au horizon from hole 139 although the 1.8 metre wide quartz-talc vein has pinched considerably. One coarse speck of VG was noted here

From	To	DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm	AS ppm
0	22.20	CASING - OVERBURDEN	D1539	55	56	1	0.02		1
22.20	26.00	WEAKLY GRAPHITIC TUFFACEOUS BASALT	D1540	56	57	1	1.13	1.78	26
			D1541	57	58	1	0.08		34
26.00	56.10	MASSIVE LEUCOXENE BASALT FLOW	D1542	58	59	1	0.02		24
			D1543	59	60	1	nil		19
56.10	66.00	WEAKLY CARBONATED + MINERALIZED BASALT. UPPER AU HORIZON - VG	D1544	60	61	1	nil		32
			D1545	61	62	1	0.03		29
66.00	75.00	GREEN BEDDED TUFF	D1546	62	63	1	0.28		22
			D1547	63	64	1	0.54	0.44	8
75.00	99.50	MASSIVE LEUCOXENE BASALT	D1548	64	65	1	0.22		34
			D1549	65	66	1	0.21	0.19	93
99.50	100.50	LIGHT GREEN MASSIVE BASALT OR ANDESITE	D1550	66	67	1	0.03		40
			D1551	67	68	1	0.05		22
	100.50	END OF HOLE	D1552	68	69	1	nil		32

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 045-01-141.....

Hole No. 045-01-141 Sheet 1	Length 213.0 metres	Commenced September 6, 1982	Dip: Collar -70°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed September 10, 1982	Etch Test Depth Rdg True	
Township Hoyle	Dip -70°	Drilling Co. St. Lambert	Troperit: 60m -66°	
Location N 5555.6 E 5718.7	Objective To follow upper Au horizon to greater depth below Hole 125	Core Size BQ	120m -53° 189m -36°	
Logged By A. Philipp	Casing Left Lost in Hole plastic pipes down to bedrock.	Troperit: 60m Az. N4.5° 120m Az. 349.0° 189m Az. 345.5°		
Core Location Hoyle - Camp Site	Remarks 6.0 metres wide. Upper Au horizon is well mineralized showing fine VG in several places. Lower Au horizon is well mineralized as well over similar width. Graphite component is strong.			

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm	Ag ppm			
From	To											
0	34.20	CASING - OVERBURDEN	D1553	54.0	55.0	1.0	0.40	0.61				
34.20	41.80	GREEN SCHISTOSE BASALT	D1554	68.5	69.5	1.0	nil					
41.80	44.80	BEDDED TUFF	D1555	69.5	70.5	1.0	nil					
44.80	55.00	GREY SCHISTOSE BASALT	D1556	70.5	71.5	1.0	0.09					
55.00	61.70	GREEN BEDDED TUFF	D1557	71.5	72.5	1.0	nil					
61.70	69.50	GREEN AMYGDALOIDAL BASALT	D1558	72.5	73.5	1.0	nil					
69.50	72.50	WEAKLY GRAPHITIC TUFF - FEW CHERT BANDS	D1559	93.4	94.4	1.0	0.20					
72.50	93.50	MASSIVE AMYGDALOIDAL TUFF	D1560	94.4	95.4	1.0	0.01					
93.50	97.20	WEAKLY GRAPHITIC TUFF	D1561	95.4	96.4	1.0	0.02					
97.20	114.80	GREEN MASSIVE FRAGMENTAL TUFF	D1562	96.4	97.4	1.0	0.09					
114.80	115.80	WEAKLY GRAPHITIC TUFF	D1563	114.8	115.8	1.0	0.13					
115.80	135.50	GREEN FRAGMENTAL TUFF - MILL ROCK	D1564	133.5	134.5	1.0	0.01					
135.50	145.50	GREY ALTERED TUFF	D1565	134.5	135.5	1.0	0.02					
			D1566	135.5	136.5	1.0	0.39	.27	.20			
			D1567	136.5	137.5	1.0	0.05					
			D1568	137.5	138.5	1.0	0.04					
			D1569	138.5	139.5	1.0	0.18					
			D1570	139.5	140.5	1.0	0.04					
			D1571	140.5	141.5	1.0	0.03					
			D1572	141.5	142.5	1.0	0.04					
			D1573	142.5	143.5	1.0	0.01					
			D1574	143.5	144.5	1.0	nil					
			D1575	144.5	145.5	1.0	nil					
			D1601	153.8	154.8	1.0	0.01					
			D1576	154.8	155.8	1.0	0.08					

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 045-01-141
Sheet No. 2

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
145.50	154.83	GREEN FRAGMENTAL TUFF - AS ABOVE	D1577	155.8	156.8	1.0	0.18					
154.83	168.50	ALTERED FRAGMENTAL HANGINGWALL - CHERTY CARB. VEINS	D1578	156.8	157.8	1.0	0.01					
			D1579	157.8	158.8	1.0	0.02					
			D1580	158.8	159.8	1.0	0.06					
168.50	174.80	CARBONATED + MINERALIZED UPPER AU HORIZON - V.G.	D1581	159.8	161.3	1.5	0.19					
			D1582	161.3	162.3	1.0	0.31	0.23				
174.80	190.20	CARBONATED FOOTWALL FRAGMENTS	D1583	162.3	164.0	1.7	0.51					
			D1584	164.0	165.0	1.0	0.09					
190.20	200.40	ALTERED BASALT	D1585	165.0	166.0	1.0	0.08					
			D1486	166.0	167.0	1.0	0.04					
200.40	206.10	CHERTY GRAPHITIC TUFF - LOWER AU HORIZON	D1587	167.0	168.0	1.0	0.08					
			D1588	168.0	169.0	1.0	0.73					
206.10	213.00	ALTERED FRAGMENTAL TUFF	D1589	169.0	170.0	1.0	10.02	11.18				
			D1590	170.0	171.0	1.0	7.07	6.86				
	213.00	END OF HOLE	D1591	171.0	172.0	1.0	4.94	4.25				
			D1592	172.0	173.0	1.0	1.19					
			D1593	173.0	174.0	1.0	4.98	6.04				
			D1594	174.0	175.0	1.0	3.14	2.99				
			D1595	175.0	176.0	1.0	0.20					
			D1596	176.0	177.0	1.0	0.10					
			D1597	177.0	178.0	1.0	2.13	1.99				
			D1598	178.0	179.0	1.0	0.04					
			D1599	179.0	180.0	1.0	0.10					
			D1600	180.0	181.0	1.0	0.03					
			D1602	181.0	182.0	1.0	0.03					
			D1603	182.0	183.0	1.0	0.52					
			D1604	183.0	184.0	1.0	0.26					
			D1605	184.0	185.0	1.0	0.09					
			D1606	185.0	186.0	1.0	0.23					
			D1607	186.0	187.0	1.0	nil					
			D1608	187.0	188.0	1.0	0.01					
			D1609	199.0	200.4	1.4	0.68					
			D1610	200.4	201.5	1.0	6.83	6.72				
			D1611	201.5	202.6	1.1	3.24	3.22				
			D1612	202.6	203.8	1.2	0.54					
			D1613	203.8	205.0	1.2	0.22					
			D1614	205.0	206.1	1.1	1.96					
			D1615	206.1	207.0	0.9	1.39					

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 045-01-142

Hole No. 045-01-142 Sheet 1	Length 234.0 metres	Commenced September 10, 1982	Dip Collar -75°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed September 19, 1982	Eich Test	
Township Hoyle	Dip -75°	Drilling Co. St. Lambert	Depth	
Location N 5550.0 E 5780.4	Objective To test upper Au horizon at greater depth below hole 129.	Core Size BQ	Rdg. True	
Logged By A. Philipp		Casing Left/Lost in Hole Plastic pipes down to bedrock.	Troperi 60m -71°	
Core Location Hoyle - Camp Site			" 120m -64°	
			" 174m -44°	
			" 216m -39°	
Remarks 3.1 metres wide upper Au horizon should make the grade but much mineralization is spread out extensive footwall alteration. Lower Au horizon over 6 metres with good chert alteration but lacks the usual heavy graphite mineralization and stronger sulphide content.			Troperi 60m Az. 347°	
			" 120m Az. 355.5°	
			" 174m Az. 348.5°	
			" 216m Az. 350.5°	

From	To	DESCRIPTION	Sample No	From	To	Length (metres)	Au ppm	Au ppm				
0	32.00	CASING - OVERBURDEN	D1616	69.0	70.0	1.0	0.01					
32.00	41.00	GREEN AMYGDALOIDAL TUFF	D1617	70.0	71.0	1.0	0.02					
41.00	51.80	GREEN MASSIVE BASALT	D1618	71.0	72.0	1.0	nil					
51.80	69.30	AMYGDALOIDAL TUFF - FRACTURE ZONE	D1619	72.0	73.0	1.0	0.07					
69.30	72.00	WEAKLY GRAPHITIC TUFF	D1620	103.0	104.0	1.0	0.49					
72.00	149.10	GREEN FRAGMENTAL TUFF	D1621	104.0	105.0	1.0	1.07					
149.10	151.00	WEAKLY GRAPHITIC TUFF	D1622	111.6	112.6	1.0	0.34					
151.00	165.90	GREEN TUFFACEOUS BASALT VG	D1623	149.0	150.0	1.0	0.28					
165.90	176.30	ALTERED MASSIVE BASALT	D1624	150.0	151.0	1.0	1.26	0.89				
176.30	181.20	CARBONATED HANGINGWALL BASALT	D1625	151.0	152.0	1.0	0.03					
181.20	184.30	CARB. + MINERALIZED UPPER AU HORIZON - VG	D1626	158.0	159.0	1.0	0.25					
184.30	195.80	CARBONATED FOOTWALL TUFF	D1627	159.0	160.0	1.0	0.03					
195.80	200.25	ALTERED TUFF	D1628	160.0	161.0	1.0	nil					
			D1629	161.0	162.0	1.0	nil					
			D1630	162.0	163.0	1.0	nil					
			D1631	163.0	164.0	1.0	0.01					
			D1632	164.0	165.0	1.0	nil					
			D1633	165.0	166.0	1.0	2.83	3.21				
			D1634	166.0	167.0	1.0	nil					
			D1635	176.0	177.0	1.0	nil					
			D1636	177.0	178.0	1.0	nil					
			D1637	178.0	179.0	1.0	nil					
			D1638	179.0	180.0	1.0	nil					
			D1639	180.0	181.0	1.0	0.08					
			D1640	181.0	182.0	1.0	0.64					

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 045-01-142
Sheet No. 2

Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Au ppm				
From	To											
200.25	203.80	MINERALIZED GRAPHITIC TUFF - SOME CHERT	D1641	182.0	183.0	1.0	0.50					
203.80	206.50	GREY ALTERED TUFF	D1642	183.0	184.3	1.3	8.68	R.96				
			D1643	184.3	185.3	1.0	0.04					
			D1644	185.3	186.3	1.0	0.03					
206.50	223.50	MASSIVE ALTERED BASALT	D1645	186.3	187.3	1.0	0.66					
			D1646	187.3	188.3	1.0	0.30					
223.50	227.00	CARBONATED TUFFACEOUS BASALT	D1647	188.3	189.3	1.0	0.82					
			D1648	189.3	190.3	1.0	1.95	2.13				
227.00	233.00	GRAPHITIC CHERY TUFF - LOWER AU HORIZON	D1649	190.3	191.3	1.0	0.09					
			D1650	191.3	192.3	1.0	0.14					
233.00	234.00	GREEN TUFF	D1651	192.3	193.3	1.0	0.03					
			D1652	193.3	194.3	1.0	0.04					
	234.00	END OF HOLE	D1653	194.3	195.0	0.7	nil					
			D1654	200.0	201.0	1.0	0.26					
			D1655	201.0	202.0	1.0	0.05					
			D1656	202.0	203.0	1.0	0.06					
			D1657	203.0	204.0	1.0	0.07					
			D1658	222.5	223.5	1.0	nil					
			D1659	223.5	224.5	1.0	0.07					
			D1660	224.5	225.5	1.0	0.27					
			D1661	225.5	227.0	1.5	0.97					
			D1662	227.0	228.0	1.0	7.54	6.86				
			D1663	228.0	228.7	0.7	0.22					
			D1664	228.7	229.7	1.0	0.04					
			D1665	229.7	230.7	1.0	0.47					
			D1666	230.7	232.0	1.3	0.34					
			D1667	232.0	233.0	1.0	0.03					
			D1668	233.0	234.0	1.0	0.01					

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Elevation: 283 metres

Hole No. 045-01-143

Hole No. 045-01-143 sheet 1	Length 144.0 metres	Commenced September 16, 1982	Dip: Collar -60°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J. V.	Bearing North 0°	Completed September 19, 1982	Eich Test Depth Rdg. True	
Township Hoyle	Dip -60°	Drilling Co. St. Lambert	Troperl 66m -58°	
Location N 5610.3 E 5780.4	Objective To test our 2 Au Horizons above and on section with Hole 129	Core Size BQ Casing Left: Lost in Hole Plastic Pipe down to bedrock	" 123m -54°	
Logged By A. Philipp	Core Location Hoyle Camp Site		Troperl 66m Az 351°	
			" 123m Az 352.5°	

Remarks The Upper and Lower Au Horizons were found to be similar in character - and will be similar in grade - as the Horizon intercepts in Hole 129 below.

Metres		DESCRIPTION	Sample No.	From	To	Length	Au ppm	Au ppm				
From	To											
0	30.8	CASING - OVERBURDEN										
30.8	43.5	GREEN FRAGMENTAL TUFF										
43.5	46.0	WEAKLY GRAPHITIC TUFF										
46.0	71.0	GREEN FRAGMENTAL TUFF - As Above	D1669	43.0	44.0	1.0	0.04					
71.0	80.0	ALTERED TUFF	D1670	44.0	45.0	1.0	0.52					
80.0	82.6	CARBONATED HANGINGWALL TUFF	D1671	45.0	46.0	1.0	1.19					
82.6	88.3	CARBONATED AND MINERALIZED UPPER AU HORIZON	D1672	80.0	81.0	1.0	0.46					
88.3	94.5	CARBONATED FOOTWALL TUFF	D1673	81.0	82.0	1.0	0.03					
94.5	100.4	MASSIVE CARBONATED BASALT	D1674	82.0	83.0	1.0	7.51	8.85				
100.4	109.5	TUFFACEOUS WEAKLY GRAPHITIC BASALT BRECCIA	D1675	83.0	84.5	1.5	3.77	3.84				
109.5	128.2	GREEN TUFFACEOUS BASALT	D1676	84.5	85.7	1.2	0.14					
128.2	131.8	CARBONATED FRAGMENTAL HANGINGWALL	D1677	85.7	86.7	1.0	0.32					
131.8	134.9	GRAPHITIC CHERTY TUFF - LOWER AU HORIZON	D1678	86.7	88.3	1.6	1.16					
134.9	139.2	CARBONATED FRAGMENTAL TUFF	D1679	88.3	89.3	1.0	0.01					
139.2	144.0	GREEN MASSIVE TUFFACEOUS BASALT	D1680	89.3	90.3	1.0	0.04					
	144.0	END OF HOLE	D1681	90.3	91.3	1.0	0.14					
			D1682	91.3	92.3	1.0	0.37					
			D1683	127.2	128.2	1.0	0.16					
			D1684	128.2	129.2	1.0	3.81	3.22				
			D1685	129.2	130.2	1.0	0.03					
			D1686	130.2	131.8	1.6	0.08					
			D1687	131.8	132.8	1.0	0.68					
			D1688	132.8	134.0	1.2	1.13	1.23				
			D1689	134.0	135.0	1.0	0.28					
			D1690	135.0	136.0	1.0	nil					

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 045-01-144

Hole No. 045-01-144 Sheet 1	Length 147.0 metres	Commenced September 20, 1982	Dip Collar -65°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek Joint Venture	Bearing North 0°	Completed September 22, 1982	Eich Test Depth Rdg True	
Township Hoyle	Dip -65°	Drilling Co. St. Lambert	Troperi 60m -63°	
Location N 5610.3 E 5810.4	Objective To test 2 Au horizons updip from Hole 136 below	Core Size BQ	" 87m -62° " 126m -58°	
Logged By A. Philipp	Core Location Hoyle Camp Site	Casing Left/ Lost in Hole Plastic pipes down to bedrock	Troperi 60m Az 357.5° " 87m Az 358.5° " 126m Az 358.0°	
Remarks	Poorly mineralized upper Au horizon has been made to look worse by a fault zone immediately above it. Lower Au horizon is strong & wide with much chert & fair sulphides. Speck of VG!			

Metres		DESCRIPTION	Sample No.	From	To	Length metres	Au ppm	Au ppm				
From	To											
0	27.0	CASING - OVERBURDEN	D1691	76.7	78.0	1.3	0.21					
27.0	40.5	GRAPHITIC TUFF BRECCIA - Soft Ground	D1692	78.0	79.4	1.4	0.33					
			D1693	79.4	80.4	1.0	2.95	2.81				
40.5	53.0	GRAPHITIC TUFF BRECCIA - As Above - Soft Ground	D1694	80.4	81.5	1.1	0.17					
			D1695	81.5	82.5	1.0	nil					
53.0	63.0	GRAPHITIC TUFF BRECCIA - As Above - Soft Ground	D1696	82.5	83.5	1.0	nil					
			D1697	83.5	84.5	1.0	nil					
63.0	76.7	GRAPHITIC AND BEDDED TUFF BRECCIA - FRACTURE OR FAULT ZONE	D1698	89.0	90.0	1.0	nil					
			D1699	90.0	91.0	1.0	0.08					
76.7	81.5	POORLY MINERALIZED UPPER AU HORIZON	D1700	91.0	92.0	1.0	1.79	1.92				
			D1701	92.0	93.0	1.0	0.09					
81.5	83.5	WEAKLY GRAPHITIC TUFF	D1702	129.0	130.0	1.0	nil					
			D1703	130.0	131.0	1.0	0.03					
83.5	92.3	ALTERED TUFFACEOUS BASALT	D1704	131.0	132.0	1.0	0.42					
			D1705	132.0	133.0	1.0	0.37					
92.3	107.4	MASSIVE ALTERED LEUCOXENE BASALT	D1706	133.0	134.0	1.0	1.75	2.54				
			D1707	134.0	135.0	1.0	0.44	VG				
107.4	112.4	GRAPHITIC AND FRAGMENTAL TUFF	D1708	135.0	136.0	1.0	0.78					
			D1709	136.0	137.0	1.0	0.03					
112.4	122.1	GREEN BASALT FLOW	D1710	137.0	138.0	1.0	0.22					
			D1711	138.0	139.0	1.0	0.16					
122.1	131.8	WEAKLY CARBONATED AND GRAPHITIC HANGINGWALL	D1712	139.0	140.0	1.0	0.34					
			D1713	140.0	141.1	1.1	0.40					
131.8	141.1	CHERTY GRAPHITIC TUFF - LOWER AU HORIZON - VG	D1714	141.1	142.0	0.9	0.04					
			D1715	142.0	143.0	1.0	0.01					
141.1	143.2	WEAKLY GRAPHITIC TUFF										
143.2	147.0	ALTERED FRAGMENTAL TUFF										

147.0 END OF HOLE

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DIAMOND DRILL RECORD

Hole No. 045-01-145

Hole No. 045-01-145 Sheet 1	Length 171.0 metres	Commenced September 23, 1982	Dip: Collar -65°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed September 25, 1982	Ech Test Depth Rdg. True	
Township Hoyle	Dip -65°	Drilling Co St. Lambert	Tropert 60m -64°	
Location N 5590 approximately E 5856	Objective To test 2 Au Horizons updip from Hole 137 below (most easterly section against Bell Creek	Core Size BQ Casing Left, Lost in Hole Plastic pipe down to bedrock	" 123m -61°	
Logged By A. Philipp	Core Location Hoyle camp site		Tropert 60m Az 359.0° 123m Az 357.5°	
Remarks Best concentrated mineralization of Upper Au Horizon is only about 1.5m wide with sub-economic grade. Great width of well mineralized Lower Au Horizon is further enhanced by smaller core angle intercept.				

Metres		DESCRIPTION	Sample No.	From	To	Length metres	Au ppm	Au ppm				
From	To											
0	23.30	CASING - OVERBURDEN										
23.30	43.0	MASSIVE LEUCOXENE BASALT	D1716	88.0	89.0	1.0	N11					
43.0	57.0	FRACTURED LEUCOXENE BASALT	D1717	89.0	90.0	1.0	N11					
57.0	67.7	FRACTURE OR FAULT ZONE	D1718	90.0	91.0	1.0	0.01					
67.7	79.0	FRACTURED LEUCOXENE BASALT - As Above	D1719	91.0	92.2	1.2	0.07					
79.0	90.0	MASSIVE GREEN BASALT	D1720	92.2	93.2	1.0	0.27					
90.0	92.6	WEAKLY GRAPHITIC TUFFACEOUS ROCK	D1721	93.2	94.4	1.2	2.30	2.47				
92.6	94.6	WEAKLY MINERALIZED UPPER AU HORIZON	D1722	94.4	95.4	1.0	0.39					
94.6	100.2	CARBONATED FOOTWALL	D1723	95.4	96.4	1.0	0.01					
100.2	113.2	ALTERED BEDDED TUFF	D1724	96.4	97.4	1.0	N11					
113.2	129.7	MASSIVE ALTERED BASALT	D1725	97.4	99.0	1.6	0.27					
129.7	136.0	WEAKLY GRAPHITIC TUFF	D1726	99.0	100.3	1.3	0.27					
136.0	146.3	MASSIVE CARBONATED FRAGMENTAL	D1727	100.3	101.3	1.0	0.04					
146.3	152.0	ALTERED BEDDED TUFF	D1728	146.0	147.0	1.0	0.06					
152.0	165.1	CHERTY GRAPHITIC TUFF - LOWER AU HORIZON - VG	D1729	147.0	148.0	1.0	1.58					
165.1	171.0	CARBONATED FOOTWALL TUFF	D1730	148.0	149.0	1.0	N11					
		END OF HOLE	D1731	149.0	150.0	1.0	0.06					
			D1732	150.0	151.0	1.0	N11					
			D1733	151.0	152.0	1.0	0.15					
			D1734	152.0	153.0	1.0	4.56	3.91	VG			
			D1735	153.0	154.0	1.0	1.30					
			D1736	154.0	155.0	1.0	0.11					
			D1737	155.0	156.0	1.0	0.51					
			D1738	156.0	157.0	1.0	0.27					
			D1739	157.0	158.0	1.0	0.05					
			D1740	158.0	159.0	1.0	-0.03					

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Elevation: 283.0m

Hole No. 045-01-146

Hole No. 045-01-146 Sheet 1	Length 132.0m	Commenced September 27, 1982	Dip Collar -60°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed September 29, 1982	Eich Test Depth Rdg. True	
Township Hoyle	Dip -60°	Drilling Co. St. Lambert	Troperl 57m -54°	
Location N 5612.50 approximately E 5719	Objective To test Au Horizons in large unexplored gap below Hole 112	Core Size .80	" 114m -44°	
Logged By A. Philipp	Core Location Hoyle camp site	Casing Left/Lost in Hole Plastic pipe down to bedrock	Troperl 57m Az 361.5°	
Remarks Upper Au Horizon is well mineralized over 5.6 metres. Footwall mineralization as chert, graphite, sulphides is very strong and extensive and seems to blend into Lower Au Horizon. Strong folding is indicated.			" 114m Az N3.5°E	

Metres		DESCRIPTION	Sample No.	From	To	Length metres	Au ppm	Au ppm			
From	To										
0	24.10	CASING - OVERBURDEN	D1749	53.5	54.5	1.0	N11				
24.10	40.75	GREEN FRAGMENTAL TUFF	D1750	54.5	55.5	1.0	0.40				
40.75	43.05	WEAKLY GRAPHITIC TUFF	D1751	55.5	56.5	1.0	N11				
43.05	54.5	GREEN FRAGMENTAL TUFF - As Above	D1752	56.5	57.5	1.0	N11				
54.5	60.9	WEAKLY GRAPHITIC TUFF AND MINERALIZED ZONE - VG	D1753	57.5	58.5	1.0	0.17	3.29	VG		
60.9	75.4	GREEN FRAGMENTAL TUFF	D1754	58.5	59.5	1.0	3.29				
75.4	80.8	ALTERED TUFF - VG	D1755	59.5	60.5	1.0	0.03				
80.8	92.3	CARBONATED HANGINGWALL TUFF - VG	D1756	74.4	75.4	1.0	N11				
92.3	97.9	CARBONATED AND MINERALIZED UPPER AU HORIZON - VG	D1757	75.4	76.4	1.0	0.80		VG		
97.9	107.5	CARBONATED AND MINERALIZED FOOTWALL	D1758	76.4	77.4	1.0	0.01				
107.5	112.0	BEDDED GRAPHITE, CHERT-CARBONATE BEDS	D1759	77.4	78.4	1.0	0.43				
112.0	116.8	ALTERED FRAGMENTAL TUFF	D1760	78.4	79.4	1.0	N11				
116.8	123.5	CHERTY GRAPHITIC TUFF - LOWER AU HORIZON - VG	D1761	79.4	80.8	1.4	0.01	3.77			
123.5	132.0	GREEN FRAGMENTAL TUFF	D1762	80.8	82.3	1.5	4.18				
		END OF HOLE	D1763	82.3	83.3	1.0	0.37				
			D1764	83.3	84.3	1.0	0.51		VG		
			D1765	84.3	85.3	1.0	0.21				
			D1766	85.3	86.3	1.0	0.01				
			D1767	86.3	87.3	1.0	0.03				
			D1768	87.3	88.3	1.0	0.02				
			D1769	88.3	89.3	1.0	0.02				
			D1770	89.3	90.3	1.0	5.35	5.97	VG		
			D1771	90.3	91.3	1.0	0.18				
			D1772	91.3	92.3	1.0	0.20				
			D1773	92.3	93.3	1.0	9.19	8.37	VG		
			D1774	93.3	94.3	1.0	3.43				
			D1775	94.3	95.3	1.0	0.04				

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 045-01-146

Sheet No. 1a

Metres		DESCRIPTION	Sample No.	From	To	Length metres	Au ppm	Au ppm					
From	To												
			D1776	95.3	96.3	1.0	0.24						
			D1777	96.3	97.9	1.6	3.22			VG			
			D1778	97.9	99.0	1.1	0.02						
			D1779	99.0	100.3	1.3	1.68						
			D1780	100.3	101.6	1.3	5.08						
			D1781	101.6	102.6	1.0	2.23						
			D1782	102.6	103.5	0.9	8.23	8.02					
			D1783	103.5	104.5	1.0	10.01	10.08					
			D1784	104.5	105.5	1.0	1.35						
			D1785	105.5	106.5	1.0	0.45						
			D1786	106.5	107.5	1.0	1.76						
			D1787	107.5	108.5	1.0	0.32						
			D1788	108.5	109.5	1.0	0.20						
			D1789	109.5	110.5	1.0	0.38						
			D1790	110.5	112.0	1.5	0.20						
			D1791	112.0	113.3	1.3	0.08						
			D1792	113.3	114.5	1.2	0.02						
			D1793	114.5	115.5	1.0	Nil						
			D1794	115.5	116.8	1.3	Nil						
			D1795	116.8	118.0	1.2	0.13						
			D1796	118.0	119.0	1.0	1.55						
			D1797	119.0	120.0	1.0	1.58			VG			
			D1798	120.0	121.0	1.0	1.89						
			D1799	121.0	122.0	1.0	2.85	2.40					
			D1800	122.0	123.0	1.0	0.69						
			C12576	123.0	124.5	1.5	0.02						
			C12577	124.5	125.5	1.0	Nil						

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Elevation: 283 metres

Hole No. 045-01-147

Hole No. 045-01-147 Sheet 1	Length 147.0 metres	Commenced September 29, 1982	Dip: Collar -60°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed October 2, 1982	Ech Test Depth Rdg True	
Township Hoyle	Dip -60°	Drilling Co. St. Lambert	Troperl 60 m -57°	
Location N 5584.0 approximately E 5657.4	Objective To test Upper Au Horizon on section between Holes 121 and 133	Core Size BQ	" 120 m -51°	
Logged By A. Philipp		Casing Left/Lost in Hole Plastic pipe down to bedrock	Troperl 60 m Az N15°E	
Core Location Hoyle camp site			" 120 m Az 355°00'	
Remarks Upper Au Horizon is somewhat less than 2 metres wide but fair VG occurs in marker vein. Footwall carbonatization is strong and extensive.				

Metres		DESCRIPTION	Sample No.	From	To	Length metres	Au ppm	Au ppm				
From	To											
0	29.0	CASING - OVERBURDEN	C12578	78.0	79.0	1.0	0.34					
29.0	37.0	GREEN AMYGDALOIDAL TUFF	C12579	79.0	80.0	1.0	1.19	1.02				
37.0	41.2	FRACTURE OR FAULT ZONE	C12580	80.0	81.0	1.0	0.13					
41.2	43.5	GREEN MASSIVE BASALT	C12581	81.0	82.0	1.0	0.04					
43.5	63.1	GREEN AMYGDALOIDAL TUFF - As Above	C12582	128.0	129.0	1.0	0.03					
63.1	69.5	WEAKLY GRAPHITIC TUFF	C12583	129.0	130.4	1.4	0.73					
69.5	78.0	GREEN AMYGDALOIDAL TUFF - As Above	C12584	130.4	131.4	1.0	10.02	10.84	VG			
78.0	81.7	WEAKLY GRAPHITIC TUFFACEOUS BASALT	C12585	131.4	132.4	1.0	3.21	2.81				
81.7	90.75	GREENISH-GREY MASSIVE BASALT	C12586	132.4	134.0	1.6	0.13					
90.75	96.2	GREEN AMYGDALOIDAL TUFF	C12587	134.0	135.0	1.0	0.58					
96.2	103.1	ALTERED BEDDED TUFF	C12588	135.0	136.0	1.0	0.39					
103.1	105.5	WEAKLY GRAPHITIC TUFF	C12589	136.0	137.0	1.0	0.65					
105.5	127.5	GREEN AMYGDALOIDAL TUFF - As Above	C12590	137.0	138.0	1.0	0.42					
127.5	130.4	WEAKLY CARBONATED HANGINGWALL	C12591	138.0	139.0	1.0	0.12					
130.4	132.4	CARBONATED AND MINERALIZED UPPER AU HORIZON - VG	C12592	139.0	140.0	1.0	0.10					
132.4	144.8	CARBONATED FOOTWALL	C12593	140.0	141.0	1.0	0.01					
144.8	147.0	MASSIVE BASALT	C12594	141.0	142.0	1.0	0.22					
	147.0	END OF HOLE	C12595	142.0	143.0	1.0	0.41	0.42				
			C12596	143.0	144.0	1.0	0.04					
			C12597	144.0	145.0	1.0	0.01					

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Elevation: 283 metres

Hole No. 045-01-148

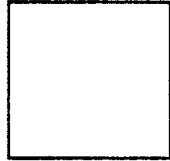
Hole No. 045-01-148 Sheet 1	Length 189.0 metres	Commenced October 2, 1982	Dip Collar -70°	Location Sketch North ↑ Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed October 5, 1982	Etch Test Depth Rdg. True	
Township N 5560 approximately	Dip -70°	Drilling Co. St. Lambert	Troperl 60m -65°	
Location E 5626	Objective To test Upper Au Horizon on section below Hole 122	Core Size BQ	" 123m -52°	
Logged By A. Philipp	Casing Left/Lost in Hole Plastic pipe down to bed-rock		" 174m -40°	
Core Location Hoyle camp site			Troperl 60m Az 353°30'	
Remarks 1.4 metre wide Upper Au Horizon contains 0.5 metre wide marker vein which shows abundant VG. Carbonatized alteration of both walls is weak.			" 123m Az 350°00'	
			" 174m Az 344°30'	

Metres		DESCRIPTION	Sample No	From	To	Length metres	Au ppm	Au ppm	"A" pulp
From	To								
0	24.8	CASING - OVERBURDEN	C12598	35.0	36.0	1.0	0.01		
24.8	35.0	GREEN FRAGMENTAL TUFF	C12599	36.0	37.0	1.0	N11		
35.0	39.7	WEAKLY GRAPHITIC TUFF	C12600	37.0	38.0	1.0	0.33		
39.7	48.2	ALTERED BEDDED TUFF	C12601	38.0	39.0	1.0	0.10		
48.2	66.0	GREEN AMYGDALOIDAL TUFF	C12602	39.0	40.0	1.0	0.44		
66.0	72.0	WEAKLY GRAPHITIC TUFF	C12603	40.0	41.0	1.0	N11		
72.0	116.0	GREEN FRAGMENTAL TUFF	C12604	41.0	42.0	1.0	N11		
116.0	138.5	ALTERED BASALT - GRAPHITIC INTERBEDS	C12605	42.0	43.0	1.0	N11		
138.5	168.0	GREEN FRAGMENTAL TUFF	C12606	43.0	44.0	1.0	0.01		
168.0	174.9	WEAKLY CARBONATED HANGINGWALL TUFF	C12607	44.0	45.0	1.0	0.86	1.19	
174.9	177.8	WEAKLY GRAPHITIC TUFF	C12608	45.0	46.0	1.0	0.11		
177.8	179.2	WEAKLY CARBONATED AND MINERALIZED UPPER AU HORIZON - VG	C12609	72.0	73.0	1.0	N11		
179.2	182.5	ALTERED FOOTWALL TUFF	C12610	73.0	74.0	1.0	0.94		
182.5	189.0	MASSIVE BASALT	C12611	74.0	75.0	1.0	N11		
189.0	189.0	END OF HOLE	C12612	133.6	134.6	1.0	N11		
			C12613	134.6	135.6	1.0	1.00	0.96	
			C12614	135.6	136.6	1.0	0.20		
			C12615	136.6	137.6	1.0	0.22		
			C12616	137.6	138.6	1.0	0.32		
			C12617	174.0	174.9	0.9	0.02		
			C12618	174.9	176.2	1.3	0.02		
			C12619	176.2	177.2	1.0	0.01		
			C12620	177.2	178.2	1.0	1.38		VG
			C12621	178.2	179.2	1.0	17.84	18.52	VG
			C12622	179.2	180.0	0.8	0.10		10.15
			C12623	180.0	181.0	1.0	N11		
			C12624	181.0	182.0	1.0	0.06		
			C12625	182.0	183.0	1.0	0.01		

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DIAMOND DRILL RECORD

Elevation: 283 metres

Hole No. 045-01-149

Hole No. 045-01-149 Sheet 1	Length 255.0 metres	Commenced October 6, 1982	Dip: Collar -75°	Location Sketch North  Claim No. Scale:
Property Bell Creek J.V.	Bearing North 0°	Completed October 10, 1982	Eich Test Depth Rdg. True	
Township Hoyle	Dip -75°	Drilling Co. St. Lambert	Tropert 63m -70°	
Location N 5515 approximately	Objective To follow Upper Au	Core Size 8Q	" 120m -64°	
E 5626	Horizon to greater depth below Hole 148	Casing Left/ Lost in Hole Plastic pipes down to bedrock	" 180m -49°	
Logged By A. Philipp			" 237m -40°	
Core Location Hoyle camp site			Tropert 63m Az 360°00'	
			" 120m Az 350°00'	
			" 180m Az 350°30'	
			" 237m Az 348°00'	

Remarks: Narrow and weakly carbonated Upper Au Horizon was cut some 57 metres vertically below hole 148. About 12 specks of VG occur in 25 cm wide marker vein

Metres		DESCRIPTION	Sample No.	From	To	Length metres	Au ppm	Au ppm	VG	Au ppm	Pulp
From	To										
0	19.5	CASING - OVERBURDEN	C12626	19.5	20.5	1.0	0.03				
19.5	28.4	MINERALIZED GRAPHITIC BASALT BRECCIA - VG	C12627	20.5	21.5	1.0	Ni1				
28.4	48.3	ALTERED TUFFACEOUS BASALT	C12628	21.5	22.5	1.0	Ni1				
48.3	52.0	WEAKLY GRAPHITIC HANGINGWALL	C12629	22.5	24.0	1.5	8.78	8.58	VG	13.72	21.27
52.0	55.8	CARBONATED AND MINERALIZED HORIZON - VG (?)	C12630	24.0	25.0	1.0	0.08				
55.8	66.6	WEAKLY GRAPHITIC FOOTWALL	C12631	25.0	26.0	1.0	0.01				
66.6	72.4	ALTERED TUFFACEOUS BASALT - As Above	C12632	26.0	27.0	1.0	Ni1				
72.4	82.0	GREEN FRAGMENTAL TUFF	C12633	47.3	48.3	1.0	0.06				
82.0	98.4	MASSIVE ALTERED BASALT	C12634	48.3	49.0	0.7	5.76				
98.4	103.0	WEAKLY GRAPHITIC TUFFACEOUS BASALT	C12635	49.0	50.0	1.0	0.03				
103.0	111.8	ALTERED TUFFACEOUS BASALT	C12636	50.0	51.0	1.0	0.04				
111.8	131.1	FRACTURED MASSIVE BASALT	C12637	51.0	52.0	1.0	Ni1				
131.1	140.0	WEAKLY GRAPHITIC TUFFACEOUS BASALT	C12638	52.0	53.0	1.0	0.87				
140.0	161.3	GREEN FRAGMENTAL TUFF	C12639	53.0	54.0	1.0	4.82				
161.3	162.7	ALTERED BEDDED TUFF	C12640	54.0	55.0	1.0	2.65	3.16	VG		
162.7	182.3	GREEN FRAGMENTAL TUFF - As Above	C12641	55.0	55.8	0.8	0.57				
182.3	185.86	WEAKLY GRAPHITIC TUFF	C12642	55.8	57.0	1.2	0.03				
			C12643	57.0	58.0	1.0	0.01				
			C12644	58.0	59.0	1.0	Ni1				
			C12645	59.0	60.0	1.0	0.01				
			C12646	60.0	61.0	1.0	0.15				
			C12647	61.0	62.0	1.0	0.03				
			C12648	62.0	63.0	1.0	Ni1				
			C12649	98.5	99.5	1.0	0.04				
			C12650	99.5	100.5	1.0	0.03				

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Hole No. 045-01-149
Sheet No. 1a

Metres		DESCRIPTION	Sample No.	From	To	Length metres	Au ppm	Au ppm				
From	To											
185.86	203.4	GREEN AMYGDALOIDAL TUFF	C12651	100.5	101.5	1.0	0.47	0.44				
			C12652	101.5	102.5	1.0	0.58					
203.4	213.7	CARBONATED AND MINERALIZED TUFF	C12653	102.5	103.5	1.0	0.03					
			C12654	132.0	133.0	1.0	N11					
213.7	232.4	GREEN FRAGMENTAL TUFF	C12655	133.0	134.0	1.0	N11					
			C12656	134.0	135.0	1.0	N11					
232.4	236.1	ALTERED BEDDED TUFF	C12657	135.0	135.9	0.9	N11					
			C12658	135.9	137.0	1.1	5.08	5.90				
236.1	239.6	GREEN FRAGMENTAL TUFF	C12659	137.0	138.0	1.0	N11					
			C12660	161.0	162.0	1.0	0.78					
239.6	243.25	WEAKLY CARBONATED HANGINGWALL TUFF	C12661	162.0	163.0	1.0	0.54					
			C12662	182.5	183.5	1.0	3.11	2.40				
243.25	244.3	MINERALIZED AND WEAKLY CARBONATED UPPER AU HORIZON -VG	C12663	183.5	184.5	1.0	0.21					
			C12664	184.5	185.89	1.35	N11					
244.3	250.0	WEAKLY CARBONATED FOOTWALL TUFF	C12665	203.4	204.4	1.0	0.50					
			C12666	204.4	205.4	1.0	0.02					
250.0	255.0	GREEN MASSIVE BASALT	C12667	205.4	206.5	1.1	0.05					
			C12668	206.5	207.5	1.0	0.27					
	255.0	END OF HOLE	C12669	207.5	208.5	1.0	1.47					
			C12670	208.5	209.5	1.0	0.66					
			C12671	209.5	210.5	1.0	3.91	4.66				
			C12672	210.5	211.5	1.0	0.10					
			C12673	211.5	212.5	1.0	0.01					
			C12674	212.5	213.7	1.2	0.03					
			C12675	239.0	240.0	1.0	0.08					
			C12676	240.0	241.0	1.0	0.03					
			C12677	241.0	242.0	1.0	0.01					
			C12678	242.0	243.25	1.25	0.01					
			C12679	243.25	244.3	1.05	12.14	8.43	VG	10.70		
			C12680	244.3	245.3	1.0	N11					
			C12681	245.3	246.3	1.0	N11					
			C12682	246.3	247.3	1.0	N11					
			C12683	247.3	248.3	1.0	N11					
			C12684	248.3	249.3	1.0	N11					

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

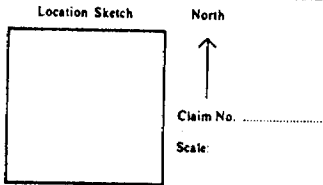
Hole No. 045-01-150

Hole No. <u>045-01-150</u> Sheet <u>1</u>	Length <u>105.0 metres</u>	Commenced <u>October 11, 1982</u>	Dip Collar <u>-80°</u>	Location Sketch North ↑ Claim No. _____ Scale: _____
Property <u>Bell Creek J.V.</u>	Bearing <u>North 0</u>	Completed <u>October 12, 1982</u>	Eich Test Depth Rdg. True	
Township <u>Hoyle</u>	Dip <u>-80°</u>	Drilling Co. <u>St. Lambert</u>	Troperi <u>30m</u> <u>-78°</u>	
Location <u>N 5469.5 approximately</u> <u>E 5689.0</u>	Objective <u>To cut Upper Au</u> <u>Horizon approximately</u> <u>50 metres below hole</u>	Core Size <u>8Q</u> Casing Left/ Lost in Hole <u>N11</u>	" <u>95m</u> <u>+67°</u>	
Logged By <u>A. Philipp</u>	Core Location <u>Hoyle camp site</u> <u>134</u>	Remarks <u>Hole was stopped before reaching it's objective because it deflected strongly to the northwest</u>		Troperi <u>30m</u> Az <u>347°00'</u> " <u>95m</u> Az <u>335°00'</u>

Metres		DESCRIPTION	Sample No.	From	To	Length metres	Au ppm	Au ppm				
From	To											
0	15.6	CASING - OVERBURDEN	C12685	69.0	70.0	1.0	0.02					
			C12686	70.0	71.0	1.0	0.01					
15.6	27.8	GREEN MASSIVE BASALT	C12687	71.0	72.0	1.0	N11					
			C12688	72.0	73.0	1.0	N11					
27.8	68.5	FRACTURED TUFFACEOUS BASALT	C12689	73.0	74.0	1.0	N11					
			C12690	74.0	75.0	1.0	N11					
68.5	80.0	WEAKLY GRAPHITIC TUFFACEOUS BASALT	C12691	75.0	76.0	1.0	0.01					
			C12692	76.0	77.0	1.0	N11					
83.0	105.0	GREEN MASSIVE BASALT	C12693	77.0	78.0	1.0	0.09					
			C12694	78.0	79.0	1.0	N11					
105.0	105.0	END OF HOLE	C12695	79.0	80.0	1.0	1.23					

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No 045-01-151

Hole No 045-01-151 Sheet 1	Length 297.0 metres	Commenced October 12, 1982	Dip Collar -75°	Location Sketch 
Property Bell Creek J.V.	Bearing 005°00'	Completed October 19, 1982	Etch Test	
Township Hoyle	Dip -75°	Drilling Co. St. Lambert	Depth 51m Rdg. -70° True	
Location N 5449.7 approximately E 5689.0	Objective To follow Upper Au Horizon to greater depth below Hole 134.	Core Size BQ	" 105m -60°	
Logged By A. Philipp		Casing Left/Lost in Hole Plastic pipe down to bedrock	" 150m -48°	
Core Location Hoyle Camp Site			" 210m -35°	
			" 252m -29°	
			Troper 1 50m Az 007°00'	
			" 105m Az 357°30'	
			" 150m Az 347°00'	
			" 210m Az 352°00'	
			" 252m Az 352°00'	

Remarks Narrow but well mineralized Upper Au Horizon shows multiple specks of VG with pyrrhotite or in 23 cm wide marker vein. Intercept is 11 metres west of section

Metres		DESCRIPTION	Sample No	From	To	Length metres	Au ppm	Au ppm	Au ppm		
From	To										
0	12.9	CASING - OVERBURDEN									
12.9	25.8	CARBONATED ULTRAMAFIC FLOW	C12696	23.5	24.5	1.0	0.03				
25.8	35.2	CARBONATED ULTRAMAFIC TUFF - BELL CREEK AU ZONE	C12697	24.5	25.5	1.0	0.88				
35.2	45.0	GRAPHITIC ARGILLACEOUS TUFF	C12698	25.5	26.5	1.0	2.50	2.40			
45.0	48.6	ALTERED TUFF	C12699	26.5	27.5	1.0	0.01				
48.6	54.5	MASSIVE BASALT	C12700	27.5	28.5	1.0	N11				
54.5	75.8	GREEN TUFFACEOUS BASALT	C12701	28.5	29.5	1.0	N11				
75.8	80.6	GREEN MASSIVE BASALT	C12702	29.5	30.5	1.0	0.18				
80.6	89.0	GREEN FRAGMENTAL TUFF	C12703	30.5	31.5	1.0	0.01				
89.0	99.6	WEAKLY GRAPHITIC TUFFACEOUS BASALT	C12704	31.5	32.5	1.0	0.01				
99.6	126.0	GREEN MASSIVE BASALT	C12705	32.5	33.5	1.0	N11				
126.0	136.0	WEAKLY GRAPHITIC AND MINERALIZED TUFFACEOUS BASALT	C12706	33.5	34.5	1.0	0.10				
136.0	147.3	GREEN AMYGDALOIDAL TUFF	C12707	34.5	35.5	1.0	1.04	0.65			
147.3	152.7	GREENISH MASSIVE BASALT	C12708	35.5	36.5	1.0	N11				
152.7	159.5	GREEN AMYGDALOIDAL TUFF - As Above	C12709	36.5	37.5	1.0	0.03				
159.5	162.8	WEAKLY CARBONATED BASALT	C12710	37.5	38.5	1.0	N11				
162.8	195.0	GREEN AMYGDALOIDAL TUFF - As Above	C12711	89.0	90.0	1.0	N11				
			C12712	90.0	91.0	1.0	N11				
			C12713	91.0	92.0	1.0	0.06				
			C12714	92.0	93.0	1.0	0.98				
			C12715	93.0	94.0	1.0	1.61				
			C12716	94.0	95.0	1.0	5.45	6.52			
			C12717	95.0	96.0	1.0	0.64				
			C12718	96.0	97.0	1.0	0.18				
			C12719	97.0	98.0	1.0	N11				
			C12720	129.0	130.0	1.0	N11				
			C12721	130.0	130.9	0.9	0.02				
			C12722	130.9	132.1	1.2	5.63	3.79	4.39		

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 045-01-151
Sheet No. 18

Metres		DESCRIPTION	Sample No.	From	To	Length metres	Au ppm	Au ppm				
From	To											
195.0	202.8	WEAKLY GRAPHITIC TUFF	C12723	192.1	193.0	0.9	0.03					
202.8	204.5	GREEN BEDDED TUFF	C12724	193.0	194.0	1.0	N11					
			C12725	194.0	195.0	1.0	N11					
204.5	226.4	GREEN MASSIVE BASALT	C12726	195.0	196.0	1.0	0.08					
			C12727	196.0	197.0	1.0	N11					
			C12728	196.9	198.0	1.1	12.90	12.14				
226.4	231.5	GREEN FRAGMENTAL TUFF	C12729	195.0	196.0	1.0	N11					
			C12730	196.0	197.4	1.4	0.02					
231.5	232.6	BEDDED CARBONATED TUFF	C12731	197.4	198.4	1.0	1.95					
			C12732	198.4	200.0	1.6	0.49					
232.6	241.1	GREEN FRAGMENTAL TUFF	C12733	200.0	201.5	1.5	1.71					
			C12734	201.5	202.8	1.3	0.07					
241.1	244.4	WEAKLY GRAPHITIC TUFFACEOUS BASALT	C12735	231.5	232.8	1.3	3.29	4.12				
			C12736	240.7	241.7	1.0	0.13					
244.4	276.7	GREEN GABBROIC BASALT	C12737	241.7	242.9	1.2	1.73					
			C12738	242.9	243.9	1.0	0.06					
276.7	291.0	CARBONATED HANGINGWALL TUFF	C12739	276.0	277.0	1.0	0.02					
			C12740	277.0	278.0	1.0	N11					
291.0	293.3	CARBONATED AND MINERALIZED UPPER AU HORIZON - VG	C12741	278.0	279.0	1.0	N11					
			C12742	279.0	280.0	1.0	0.34					
293.3	295.9	WEAKLY CARBONATED FOOTWALL TUFF	C12743	280.0	281.0	1.0	0.29					
			C12744	281.0	282.0	1.0	N11					
295.9	297.0	GREEN FRAGMENTAL TUFF	C12745	282.0	283.0	1.0	N11					
			C12746	283.0	284.0	1.0	0.22					
	297.0	END OF HOLE	C12747	284.0	285.0	1.0	N11					
			C12748	285.0	286.0	1.0	0.01					
			C12749	286.0	287.0	1.0	N11					
			C12750	287.0	288.0	1.0	0.01					
			C12751	288.0	289.0	1.0	0.01					
			C12752	289.0	290.0	1.0	0.02					
			C12753	290.0	291.0	1.0	0.02					
			C12754	291.0	292.3	1.3	3.61	3.16	VG			
			C12755	292.3	293.3	1.0	0.90	11.59	VG			
			C12756	293.3	294.3	1.0	0.07					
			C12757	294.3	295.3	1.0	0.02					
			C12758	295.3	296.3	1.0	0.19					

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Bell Creek East Zone
Elevation: 283 metres


Hole No Q45-01-152

Hole No 045-01-152 Sheet 1	Length 132.0 metres	Commenced October 20, 1982	Dip Collar -65°	Location Sketch North ↑ Claim No Scale
Property Bell Creek J.V.	Bearing North 0	Completed October 22, 1982	Ech Test Depth Rdg True	
Township Hoyle	Dip -65	Drilling Co. St. Lambert	Troperi 54m -63°	
Location N 5357.6 approximately E 6025.3	Objective To follow Upper Bell Creek Au zone to greater depth below Hole 104.	Core Size BQ	" 105m -59°	
Logged By A. Philipp		Casing Left/Lost in Hole Plastic pipe down to bedrock	Troperi 54m Az 009°00'	
Core Location Hoyle camp site			" 105m Az 014°00'	
Remarks Upper Bell Creek Au Zone has a true width of 10 metres and is well mineralized with pyrite, arsenopyrite, cherty quartz, talc and ankerite.				

Metres		DESCRIPTION	Sample No	From	To	Length metres	Au ppm	Au ppm				
From	To											
0	17.8	CASING - OVERBURDEN	C12759	45.7	46.7	1.0	0.02					
17.8	29.5	GREEN MASSIVE BASALT - FEW VARIOLES	C12760	46.7	48.05	1.35	2.27					
29.5	46.8	VARIOLITIC BASALT	C12761	48.05	49.4	1.35	0.01					
46.8	48.05	GRAPHITIC TUFF	C12762	110.5	112.0	1.5	0.02					
48.05	69.8	GRAPHITIC TUFF	C12763	112.0	112.8	0.8	0.03					
69.8	77.0	VARIOLITIC BASALT FLOW - As Above	C12764	112.8	114.0	1.2	0.23					
77.0	88.0	DARK GREEN MASSIVE BASALT	C12765	114.0	115.0	1.0	1.21					
88.0	112.8	TALC-CHLORITE SCHIST	C12766	115.0	116.0	1.0	0.24					
112.8	128.4	CARBONATED ULTRAMAFIC FLOW	C12767	116.0	117.0	1.0	3.24	4.12				
128.4	132.0	MINERALIZED AND CARBONATED TUFF - UPPER BELL CREEK ZONE	C12768	117.0	118.0	1.0	0.22					
		GRAPHITIC SEDIMENTS	C12769	118.0	119.0	1.0	0.34					
		END OF HOLE	C12770	119.0	120.0	1.0	0.46					
			C12771	120.0	121.6	1.6	0.52					
			C12772	121.6	122.2	0.6	0.31					
			C12773	122.2	123.0	0.8	1.94					
			C12774	123.0	124.0	1.0	4.93	4.53				
			C12775	124.0	125.0	1.0	4.10	4.00				
			C12776	125.0	126.0	1.0	1.75					
			C12777	126.0	127.0	1.0	4.73	5.13				
			C12778	127.0	128.4	1.4	4.65	4.60				
			C12779	128.4	129.4	1.0	0.10					
			C12780	129.4	130.4	1.0	0.05					

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 045-07-153

Hole No. 045-07-153 Sheet 1	Length 180.0 m	Commenced January 12, 1983	Dip Collar -51°	Location Sketch North  Claim No. (P) Chartrand Scale: 1:50,000
Property Chartrand Option	Bearing 080° Grid East	Completed January 17, 1983	Each Test Depth Rdg. True	
Township Murphy	Dip -51°	Drilling Co. St. Lambert	Troperit 63.0 83.5 74	
Location N ₂ L6, C11 LQ, 307E	Objective To test a N-S striking H.E.M. conductor lying near a volcanic sediment contact.	Core Size 8Q Casing Left/Lost in Hole none	Troperit 130.0 80.8 71 dip = -52° Troperit 180.0 84.5 75° dip = -45° dip = -39°	
Logged By G. Kent	Remarks: A thirty (30) metre wide band of graphitic sediment was intersected explaining the presence of the H.E.M. conductor.			
Core Location Timmins				

Footage: Metres		DESCRIPTION	Sample No.	From (m)	To (m)	Length (m)	Au ppm	Au ppm				
From	To											
0.0	52.0	OVERBURDEN GRAVEL, SAND	C14901	130	131	1.0	.048					
			C14902	131	132	1.0	.055					
52.0	136.78	FELSIC VOLCANIC BRECCIA	C14903	132	133	1.0	.048					
			C14904	133	134	1.0	.117					
136.78	168.19	GRAPHITIC SEDIMENT	C14905	134	135	1.0	.055					
			C14906	135	136	1.0	.062					
168.19	180.0	CARBONATIZED GREYWACKE	C14907	136	137	1.0	.068					
			C14908	137	138	1.0	.089					
	180.0	END OF HOLE	C14909	138	139	1.0	.137					
			C14910	139	140	1.0	.089					
			C14911	140	141	1.0	.103					
			C14912	141	142	1.0	.082					
			C14913	142	143	1.0	.082					
			C14914	143	144	1.0	.089					
			C14915	144	145	1.0	.082					
			C14916	145	146	1.0	.089					
			C14917	146	147	1.0	.096					
			C14918	147	148	1.0	.062					
			C14919	148	149	1.0	.069					
			C14920	149	150	1.0	.075					
			C14921	150	151	1.0	.069					
			C14922	151	152	1.0	.075					
			C14923	152	153	1.0	.062					
			C14924	153	154	1.0	.062					

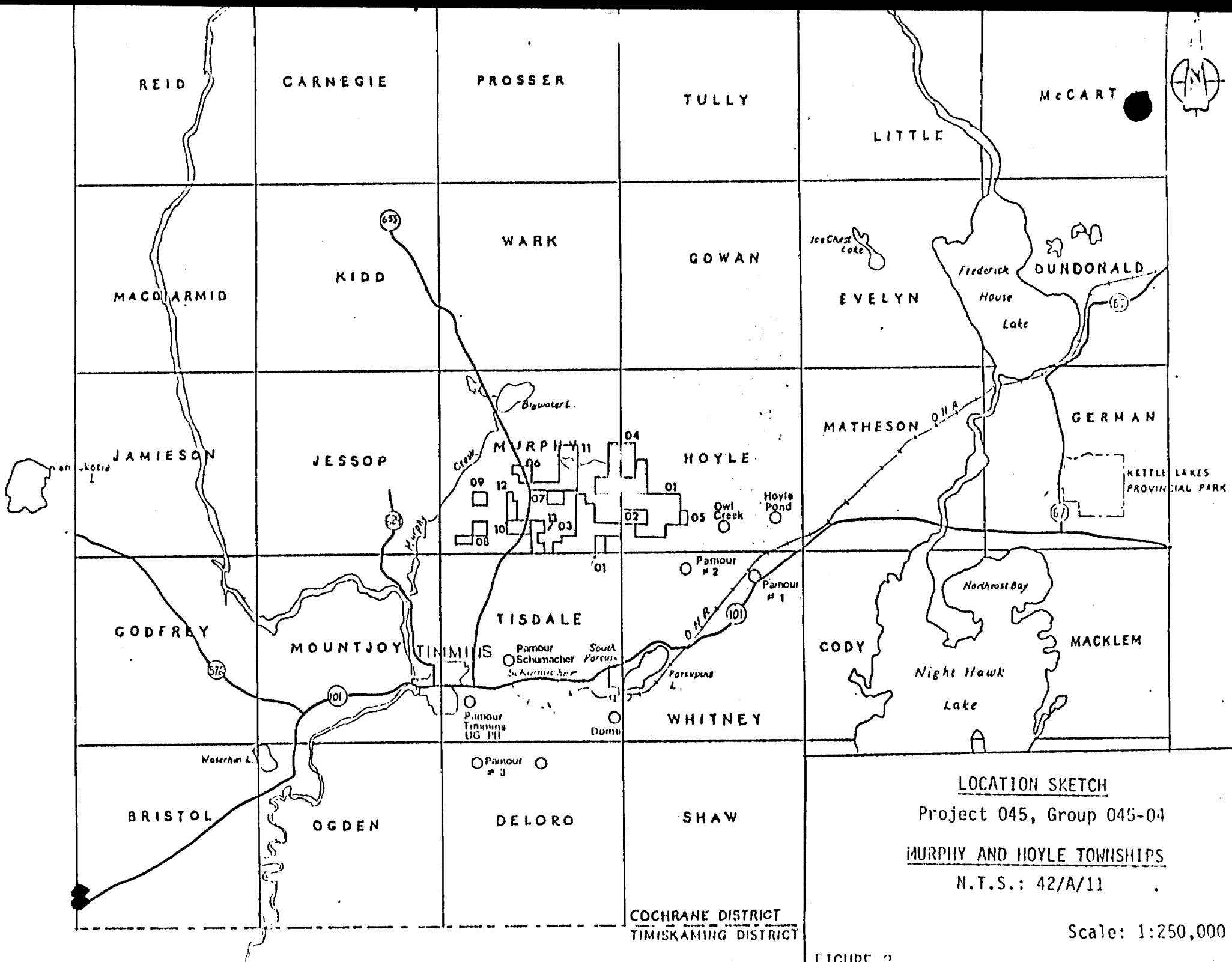
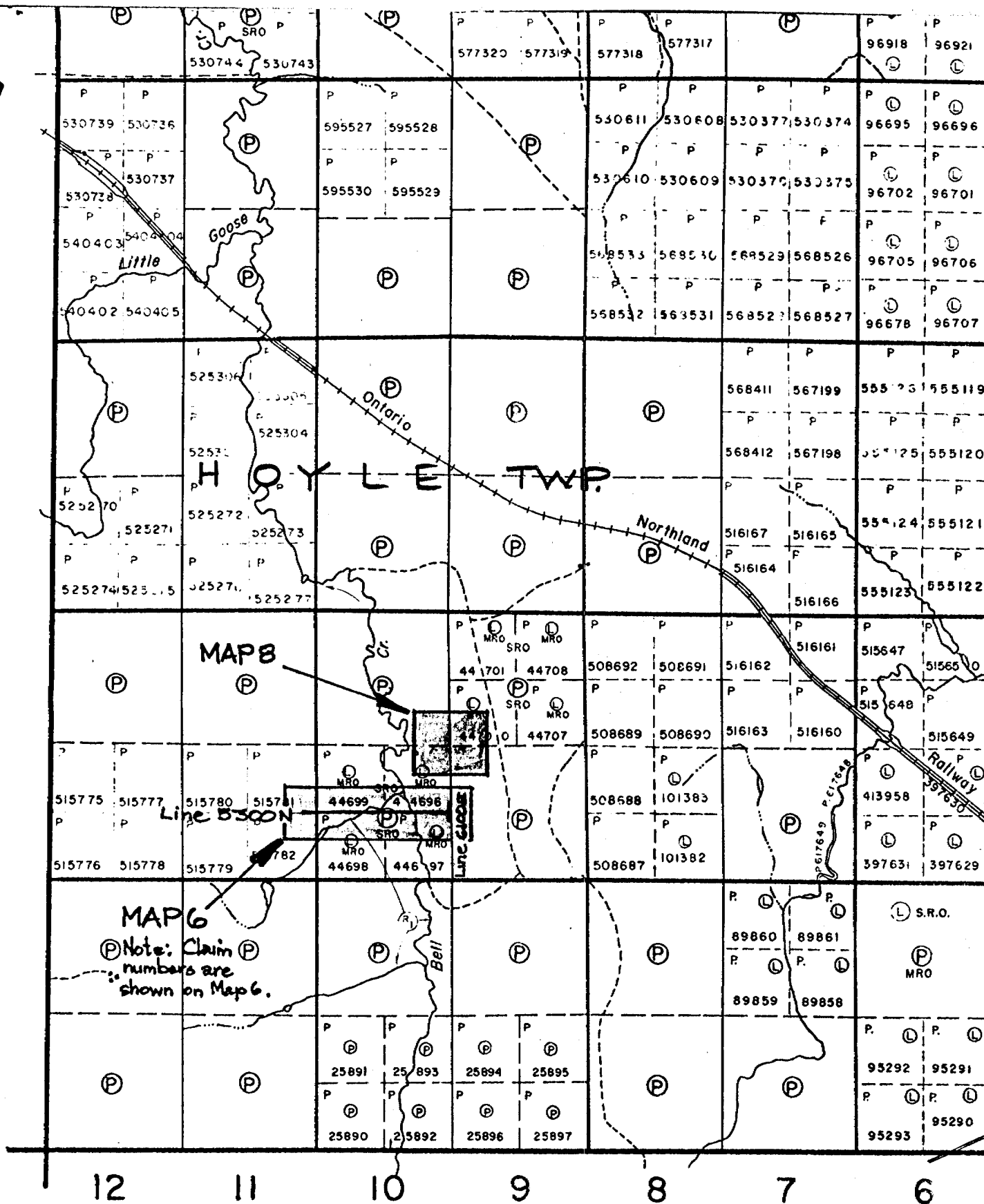


FIGURE 2

MURPHY TWP. (M.303)



BELL CREEK PROJECT

Canamax Resources Inc.

INDEX TO

MAPS 3 AND 8

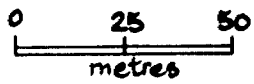
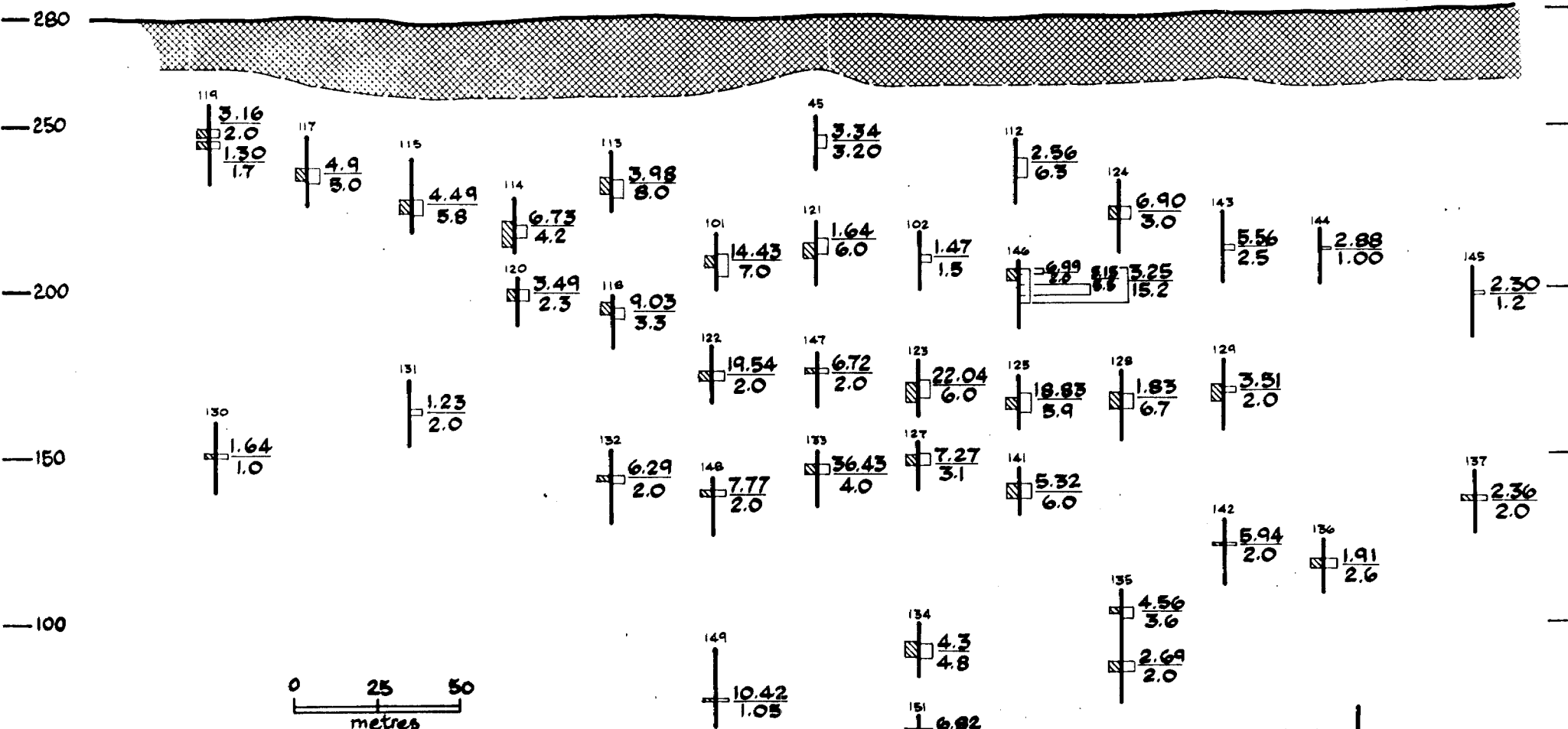
1" = 2460'

63.4115

DM 81-5-JV-137

WEST

EAST
SURFACE



BELL CREEK PROJECT

Timmins, Ontario

NORTH ZONE - UPPER HORIZON

LONGITUDINAL SECTION

R.A. Kuntin



0111 81-5-JV-137

WARK TWP. - M.317

GOWAN TWP. (M.285)

THE TOWNSHIP OF

HOYLE

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 80 CHAINS

LEGEND

PATENTED LAND	⊙
CROWN LAND SALE	⊙
LEASES	⊙
LOCATED LAND	⊙
LICENSE OF OCCUPATION	⊙
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKES	—
MINES	—
CANCELLED	—

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.

This township lies within the Municipality of CITY of TIMMINS.

See Northern Bay see the R/W patented for S.R.O. Feb 17/807

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970).
Order No. File Date Disposition

DATE OF ISSUE
DEC - 9 1982
Ministry of Natural Resources
TORONTO

Map 2.

THE TOWNSHIP OF

WHITNEY

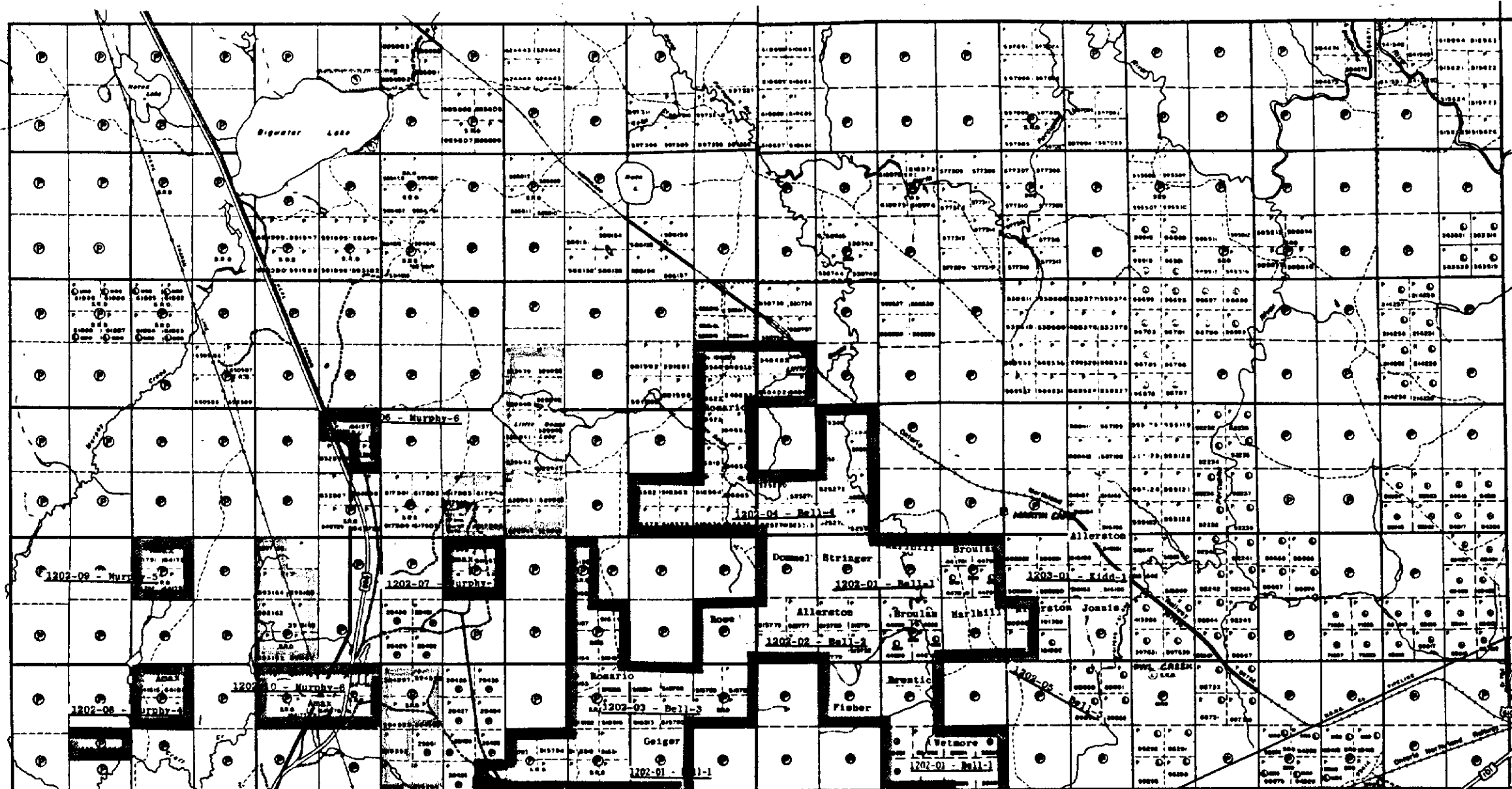
DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 80 CHAINS

JESSOP TWP. - M.289

VI
V
IV
III
II



Note: Comstate Option claims outlined in blue - option terminates Dec. 1982

MURPHY
PLAN NO. M.303

N Con IV
W Murphy 11
E Hoyle 8
S LL boundary

Map Showing
PROPERTY HOLDINGS
(As Of Dec., 31, 1982)
BELL CREEK PROJ.
TIMMINS, ONTARIO
Scale: 1" = 1 mile



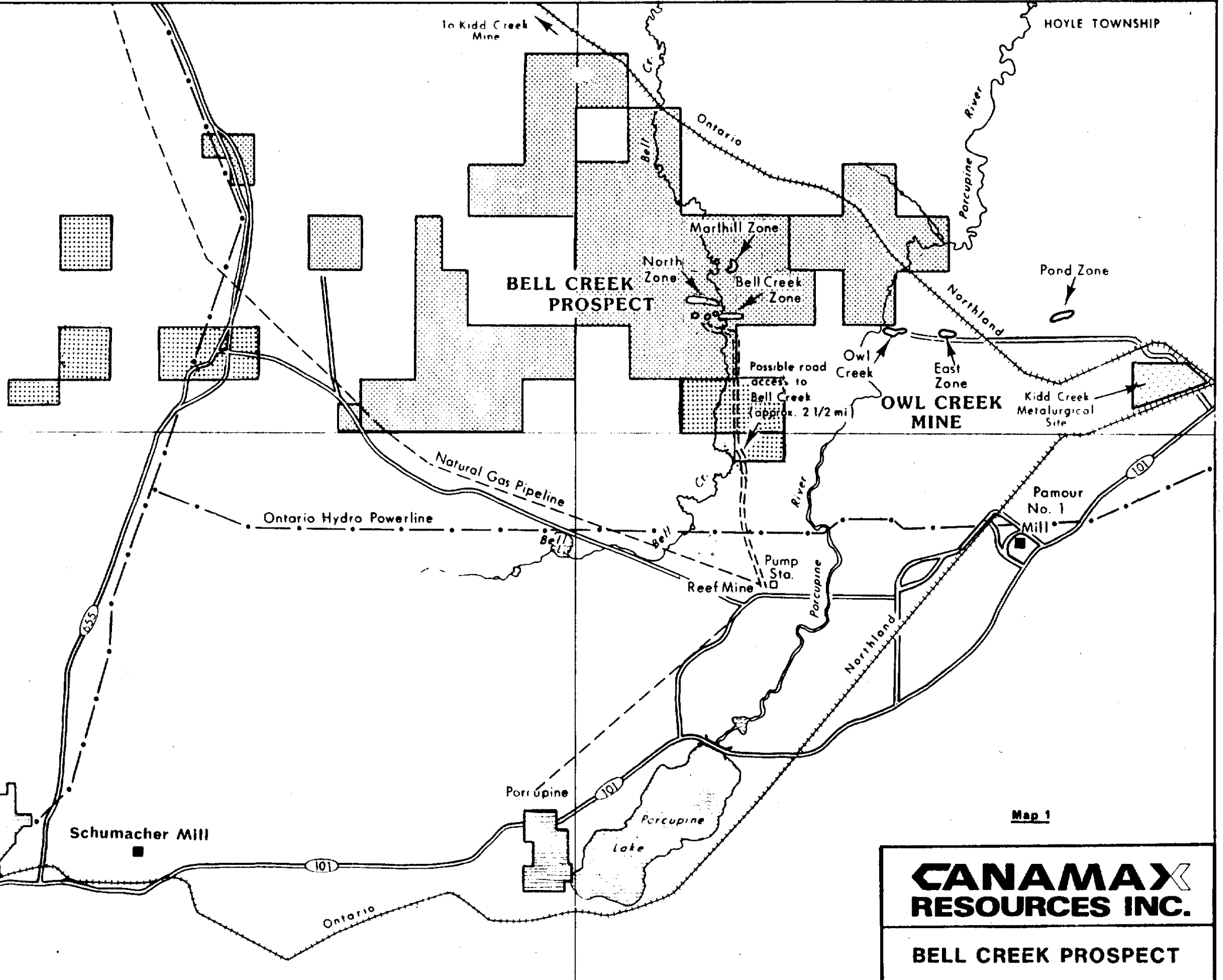
42A11SE059 63.4115 HOYLE

OM 81-5-10-137

MURPHY TOWNSHIP

HOYLE TOWNSHIP

To Kidd Creek Mine



City of Timmins

Schumacher Mill

Ontario

Porcupine

Porcupine Lake

Reef Mine

Pump Sta.

Northland

OWL CREEK MINE

Kidd Creek Metallurgical Site

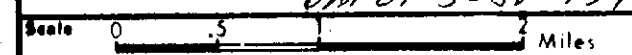
Pamour No. 1 Mill

Map 1

CANAMAX RESOURCES INC.

**BELL CREEK PROSPECT
LOCATION MAP
(Timmins Area) 63.4115**

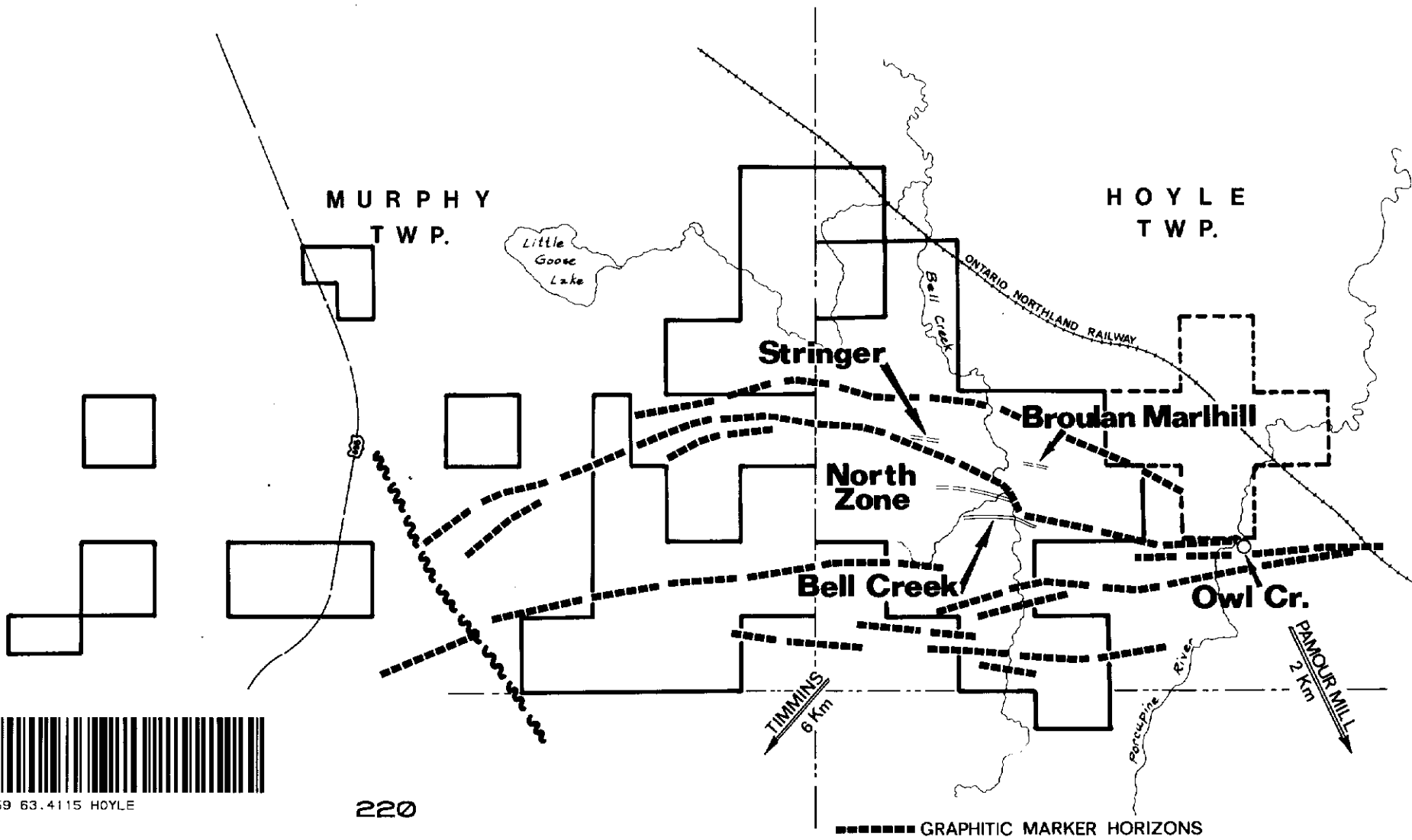
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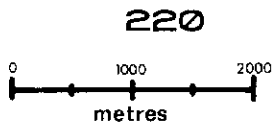
FISDALE TOWNSHIP

210

WHITNEY TOWNSHIP



42A11SE0059 63.4115 HOYLE



BELL CREEK PROJECT

Timmins, Ontario

MAP SHOWING RELATIONSHIP OF
GOLD DEPOSITS TO GRAPHITIC MARKER HORIZONS
AND PROPERTY BOUNDARIES

63.4115
01M 81-5-JV-137

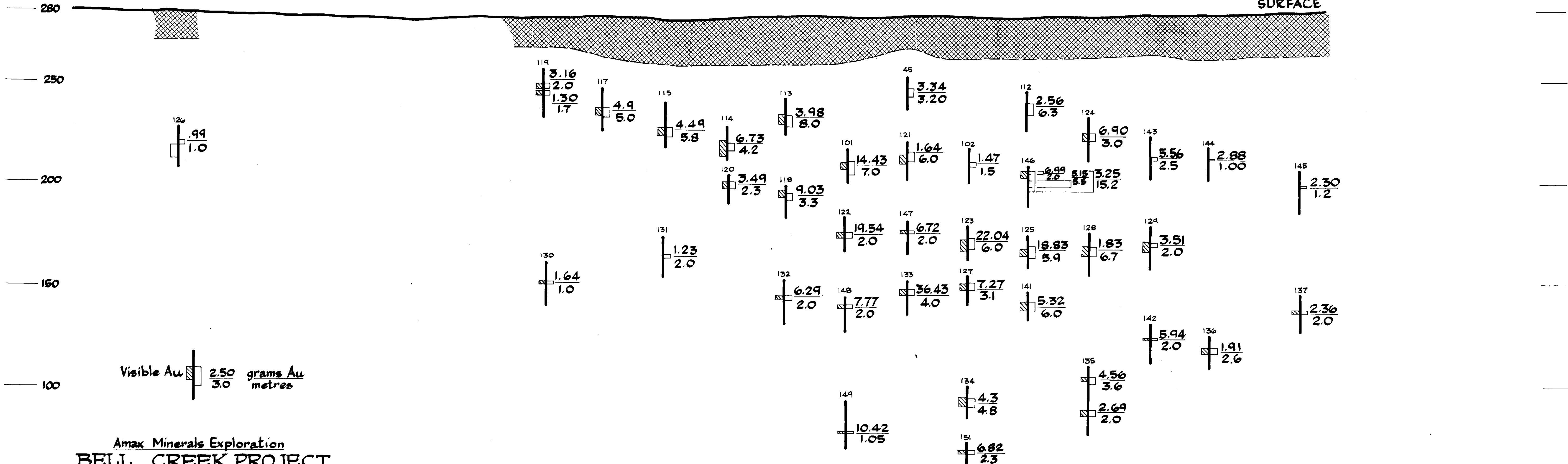
WEST

EAST

EAST

METRES ABOVE SEA LEVEL

SURFACE



Visible Au 2.50 grams Au
3.0 metres

Amax Minerals Exploration
BELL CREEK PROJECT
 Hoyle Township, Ontario
NORTH ZONE

1: 1,000



230

5450E

5500E

5550E

5600E

5650E

5700E

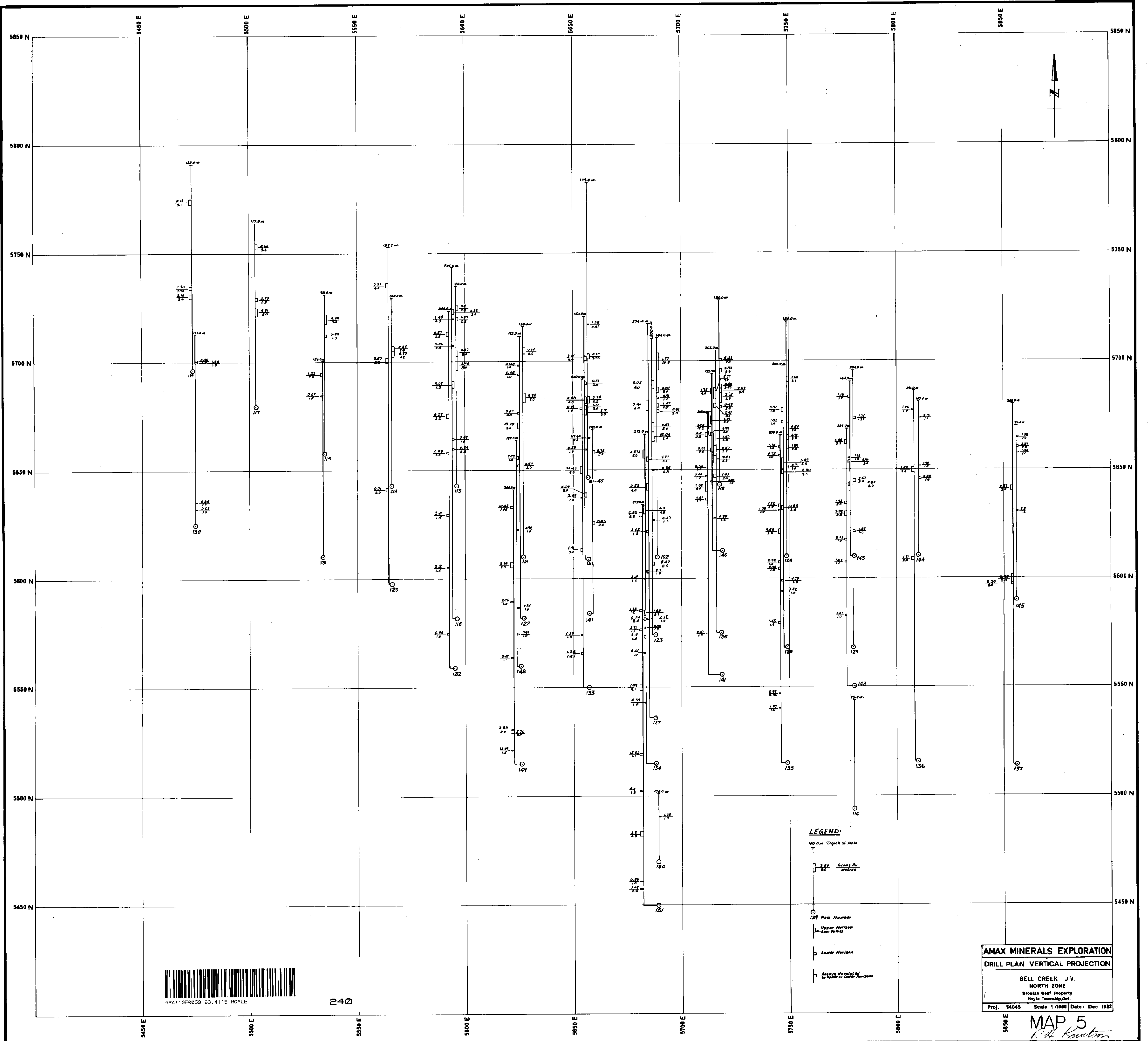
5750E

5800E

5850E

MAP 4

63.4115
 07M 81-5-JV-137



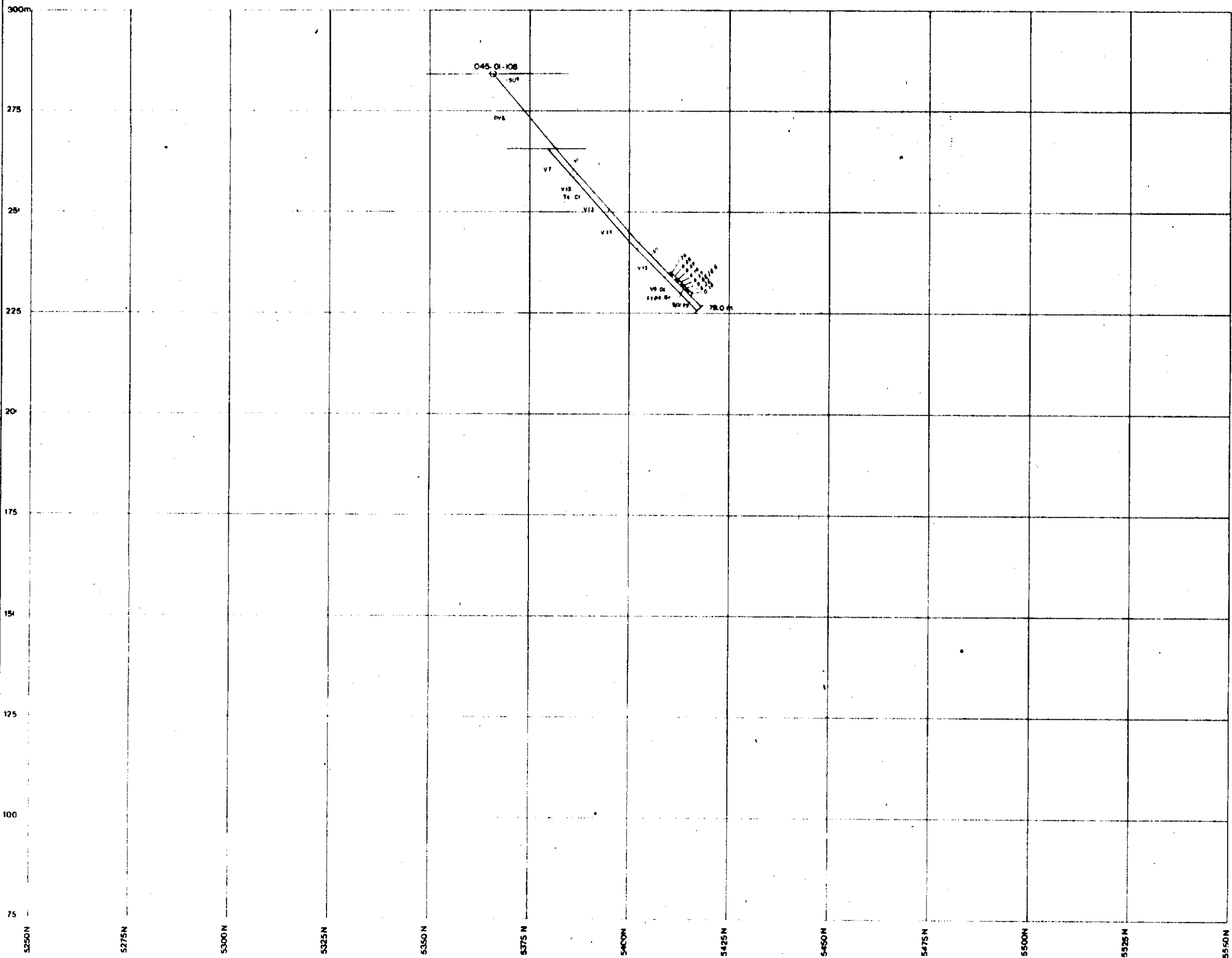
240

LEGEND:
 180.0 m Depth of Hole
 1.5x 2.5 Average Drift
 ○ Hole Number
 ▭ Upper Horizon
 ▭ Lower Horizon
 ▭ Average Unconsolidated to Top of Lower Horizon

AMAX MINERALS EXPLORATION
DRILL PLAN VERTICAL PROJECTION
 BELL CREEK J.V.
 NORTH ZONE
 Broulan Reef Property
 Hoyts Township, Ont.
 Proj. 546045 Scale 1:1000 Date: Dec. 1982

MAP 5
R.H. Kauton

63.4115
 OM 81-5-JV-137



Assay: Au gms
meters

AMAX MINERALS EXPLORATION

DRILL SECTION: 6087E

BELL CREEK JV.
BELL CREEK RENEWABLE EAST PART
Broufen Reef Prop.
Hoyle Township, Ont.

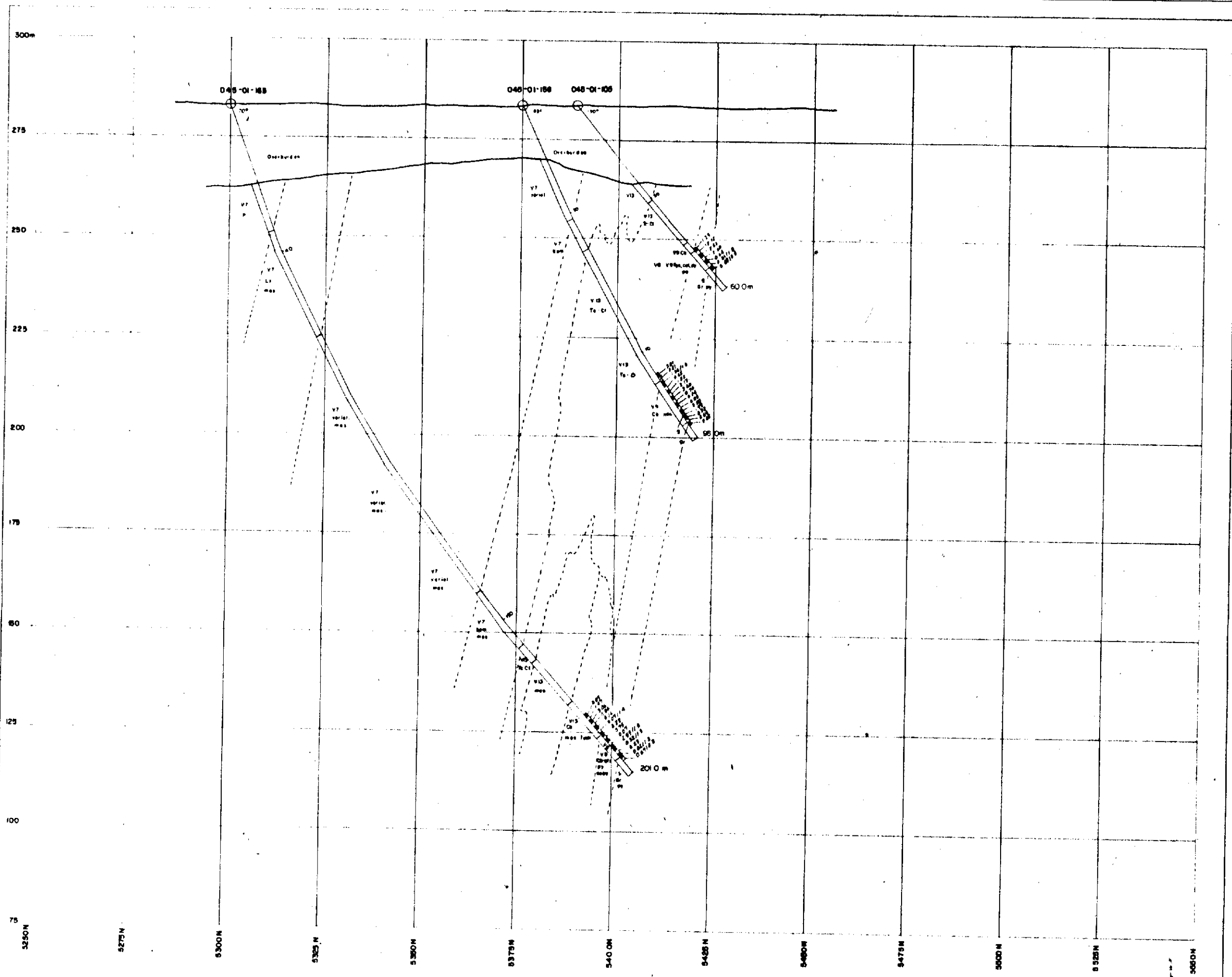
Proj. 045 Scale: 1:1000 Date JAN 1985



42A11SE0059 63.4115 HOYLE

270

63.4115
OM 81-5-JD-137



Assay Au gms
meters

AMAX MINERALS EXPLORATION		
DRILL SECTION 6056E		
BELL CREEK J.V.		
BELL CREEK ZONE - EAST PART		
Broun Reef Property		
Hoyle Township, Ont.		
Proj 045	Scale 1:1000	Date JAN 1983

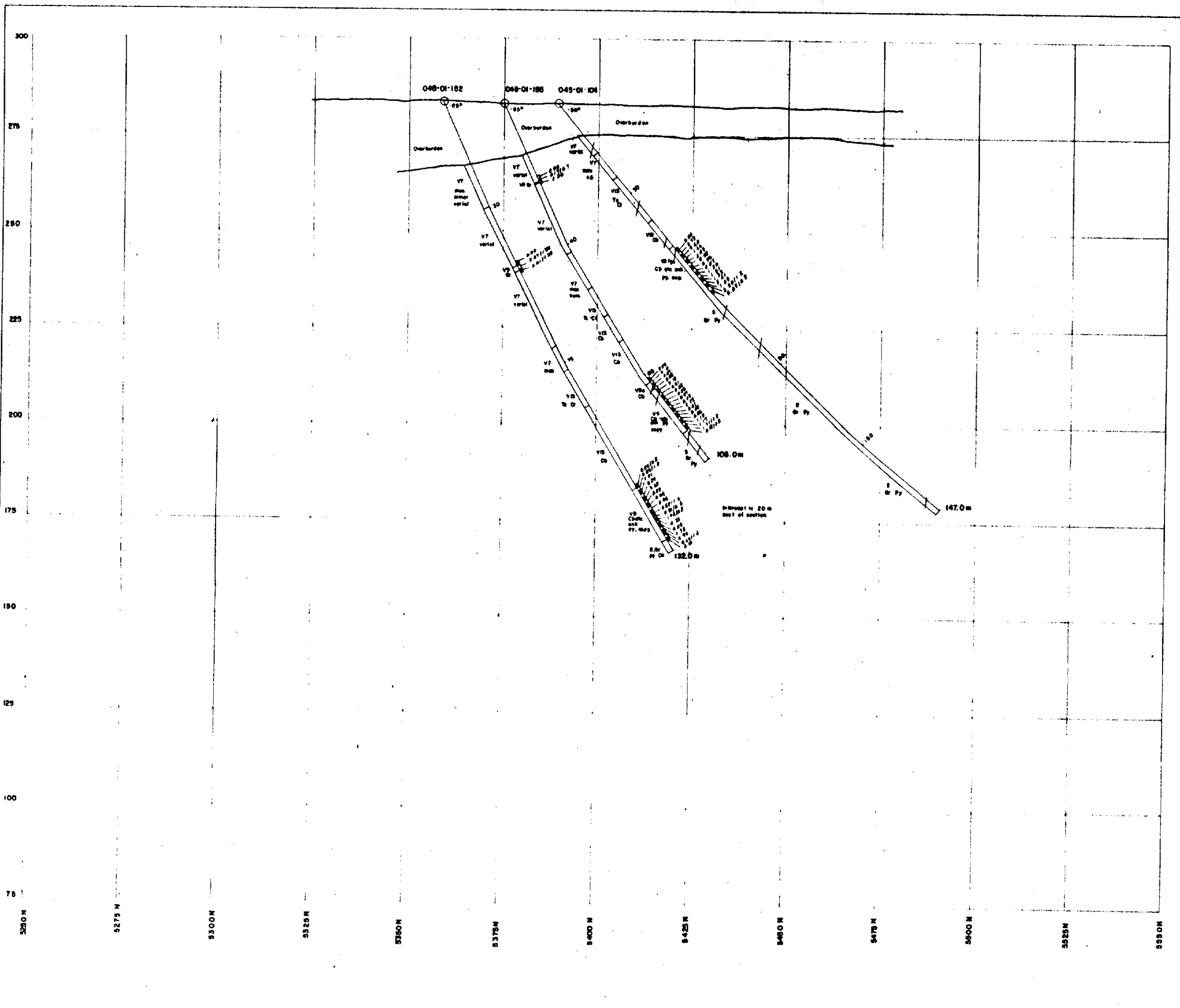


42A11SE0059 63.4115 HOYLE

280

63.4115

011 81-5-JV-137



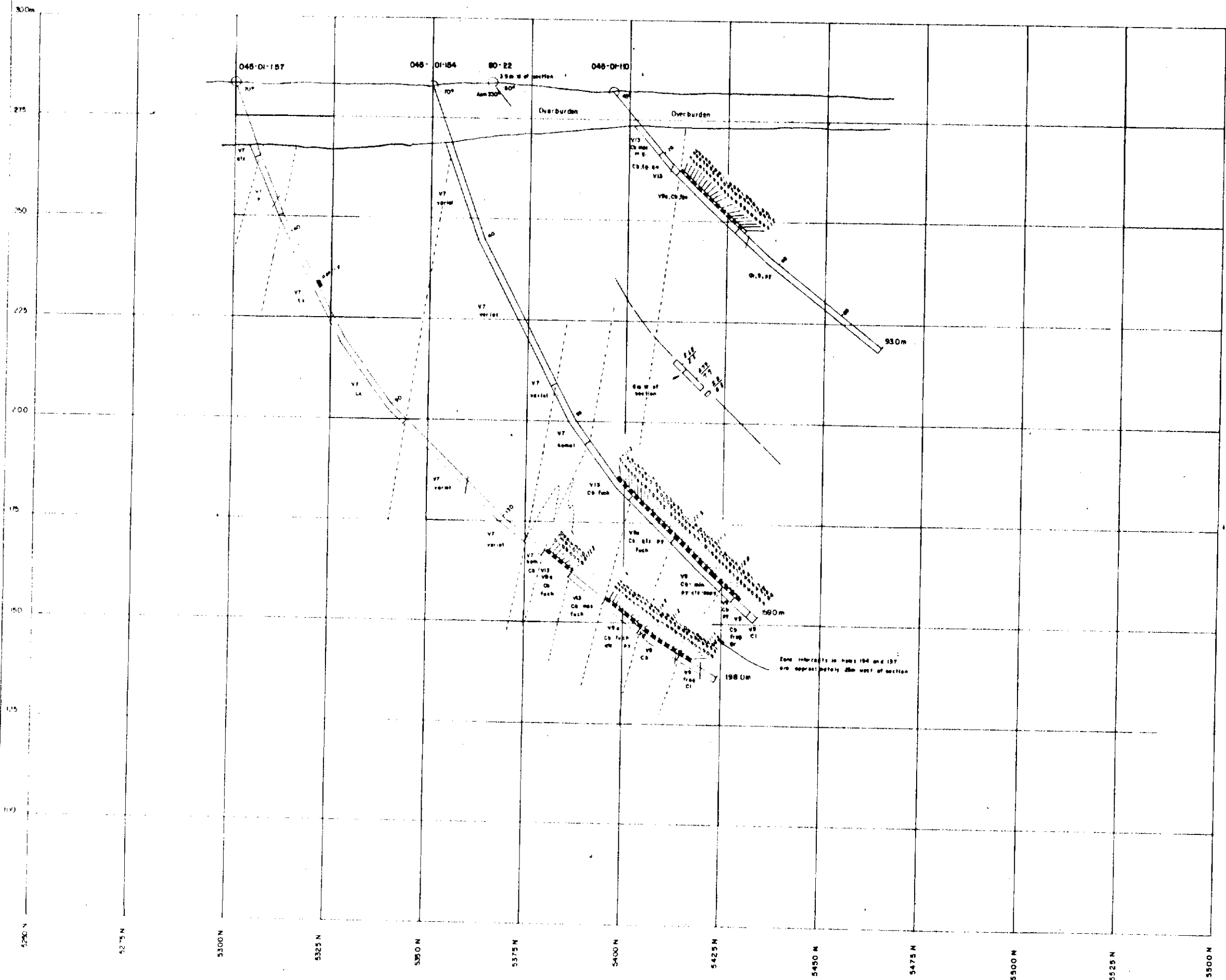
42A11SE0059 63.4115 HOYLE

290

63.4115

DM 81-5-JV-137

Assay: Au gms no gms		
AMAX MINERALS EXPLORATION		
DRILL SECTION: 8025E		
BELL CREEK J.V.		
BELL CREEK ZONE EAST PART		
Broun Reef Property Hoyle Top Ont		
Proj: 045	Scale: 1:1000	Date: JAN 1983



ASSAY Au gms
meters

AMAX MINERALS EXPLORATION

DRILL SECTION 5994 E

BELL CREEK JV

BELL CREEK ZONE - EAST PART
Broun Reef Property
HOYLE TWP, ONT

Proj 04* Scale 1:1000 Date JAN 1983

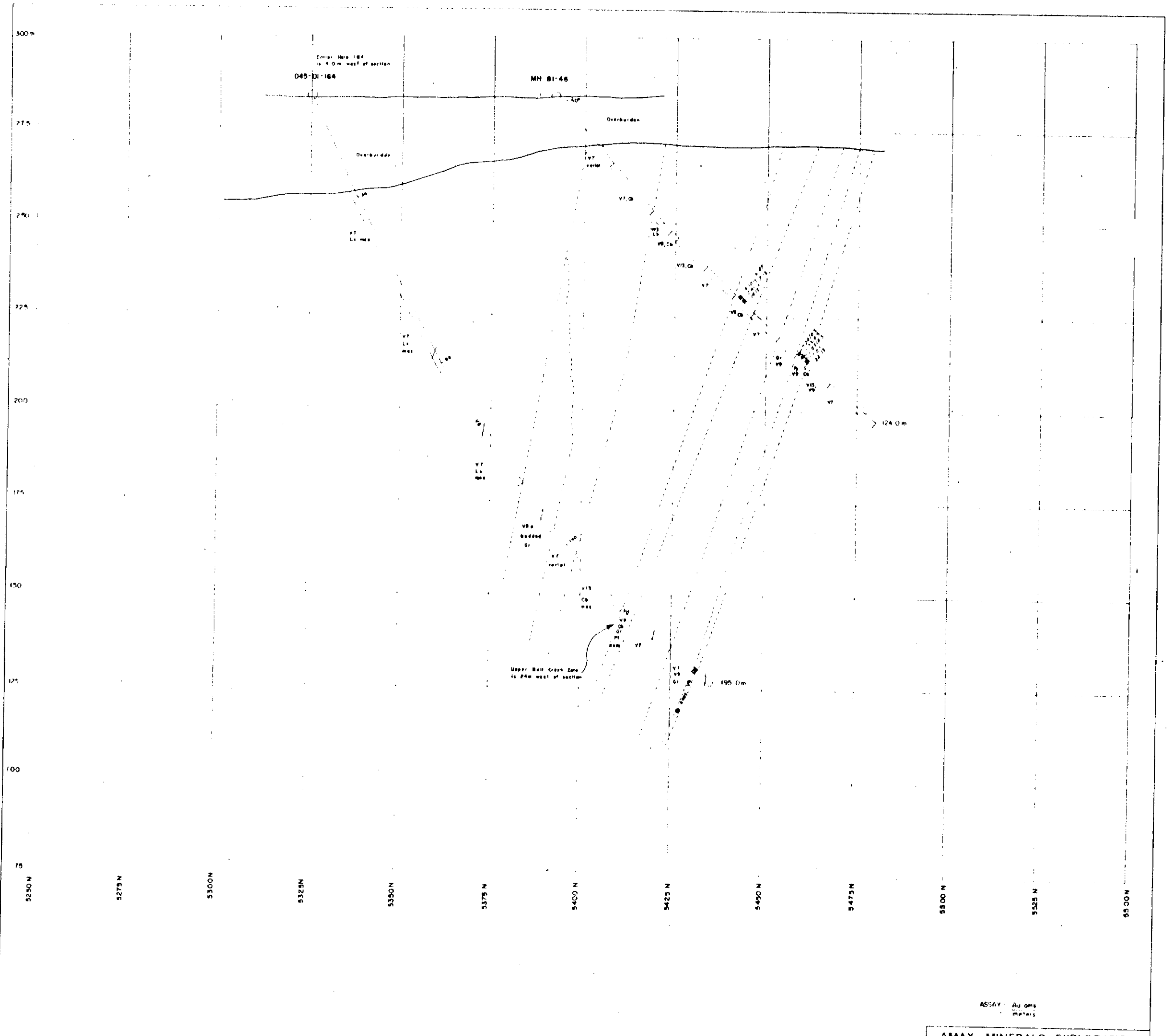


42A118E0059 63.4115 HOYLE

300

63.4115

DM 81.5 JV-137



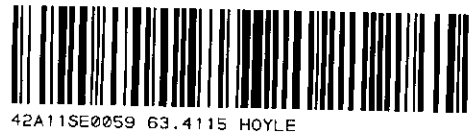
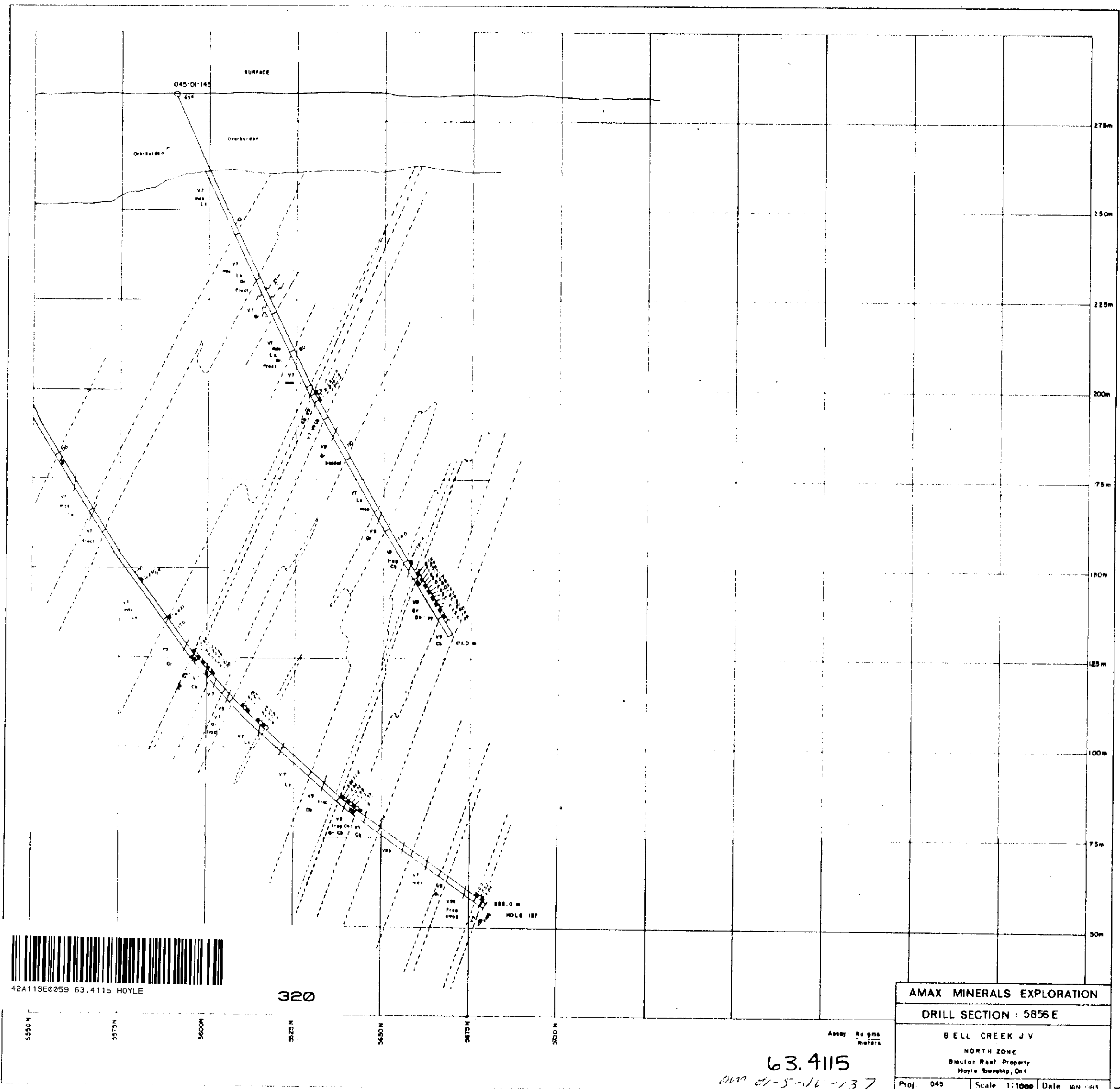
42A11SE0059 63.4115 HOYLE

310

63.4115

042 81-5-10-137

AMAX MINERALS EXPLORATION	
DRILL SECTION 58737 E	
BELL CREEK JV	
BELL CREEK ZONE EAST PART	
Broun Reef Property	
Hoyle Township, Ont	
Proj 045	Scale 1:1000 Date 08 1983



42A11SE0059 63.4115 HOYLE

320

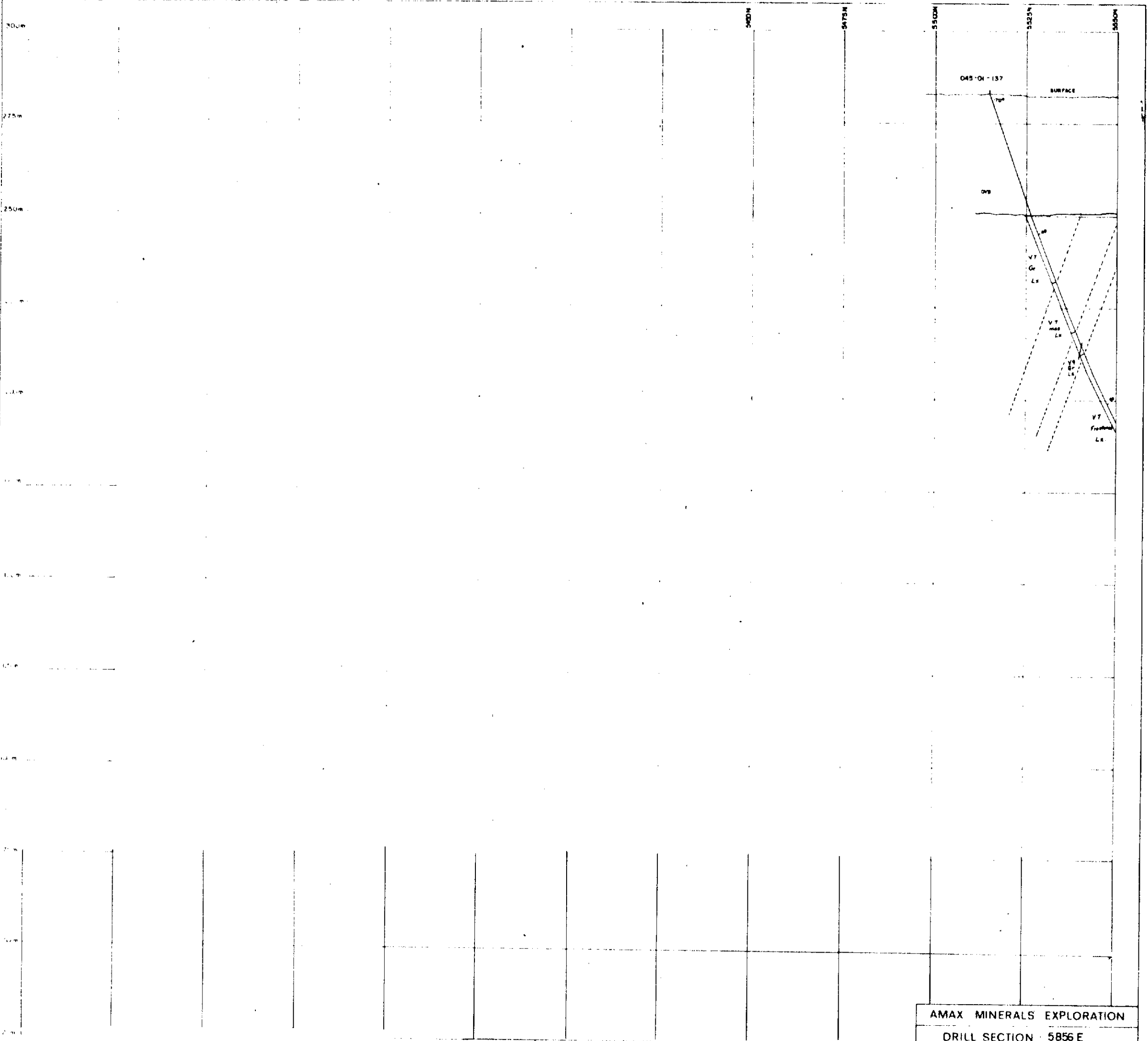
5550 M 5575 N 5600 N 5625 N 5650 N 5675 N 5700 N

Assay Au gms
meters

63.4115

OM 01-5-16-137

AMAX MINERALS EXPLORATION		
DRILL SECTION : 5856 E		
BELL CREEK J.V.		
NORTH ZONE		
Beaton Reef Property		
Hoyle Township, Ont		
Proj. 045	Scale 1:1000	Date JAN 1985



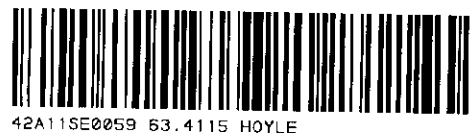
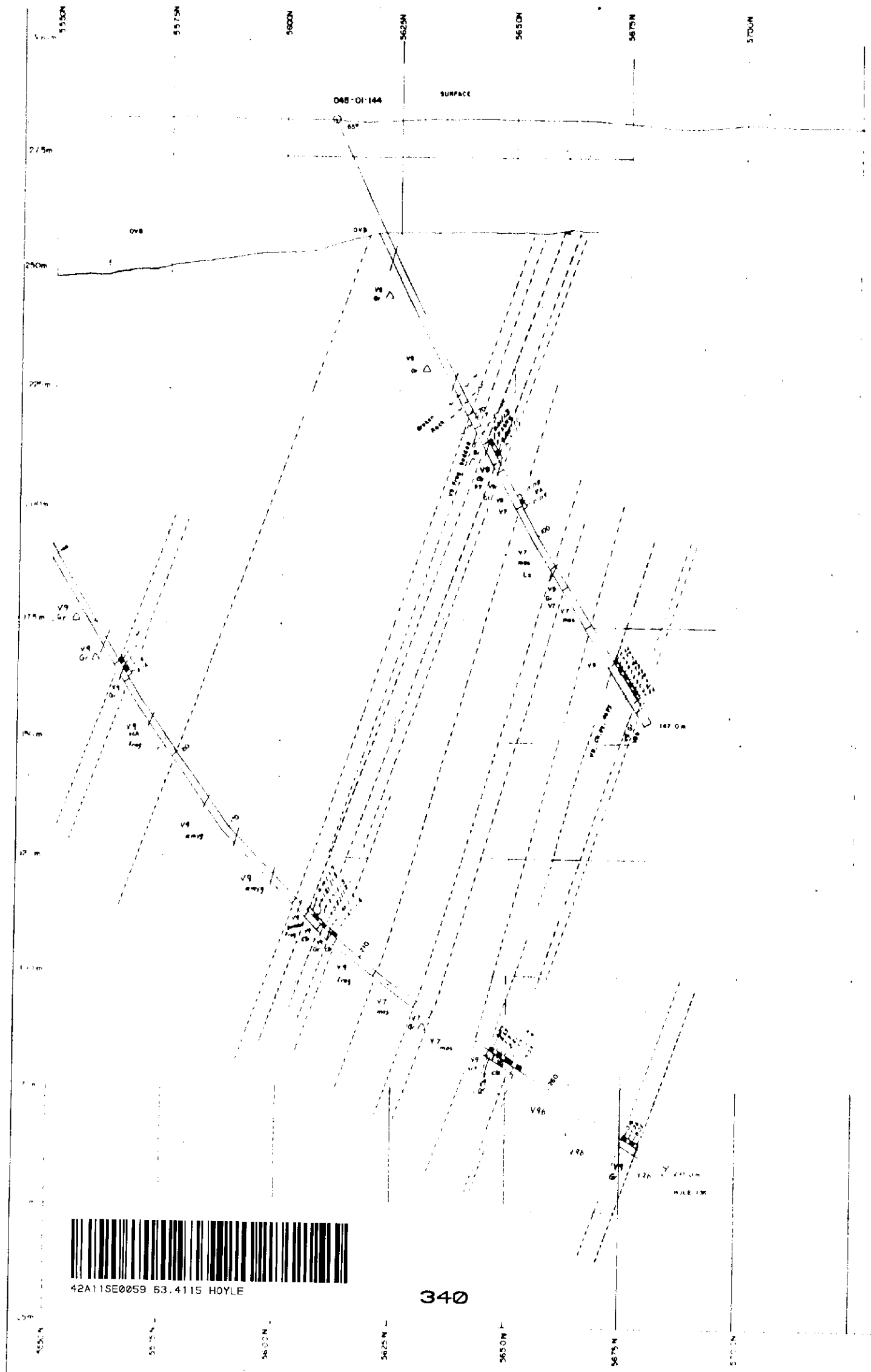
42A11SE0059 63.4115 HOYLE

330

63.4115
 01M 81-5-JV-137

Assay $\frac{\text{Au gms}}{\text{meters}}$

AMAX MINERALS EXPLORATION
DRILL SECTION 5856 E
BELL CREEK J.V.
NORTH ZONE
Braun Reel Property
Howie Township, Ont
Scale 1:1000

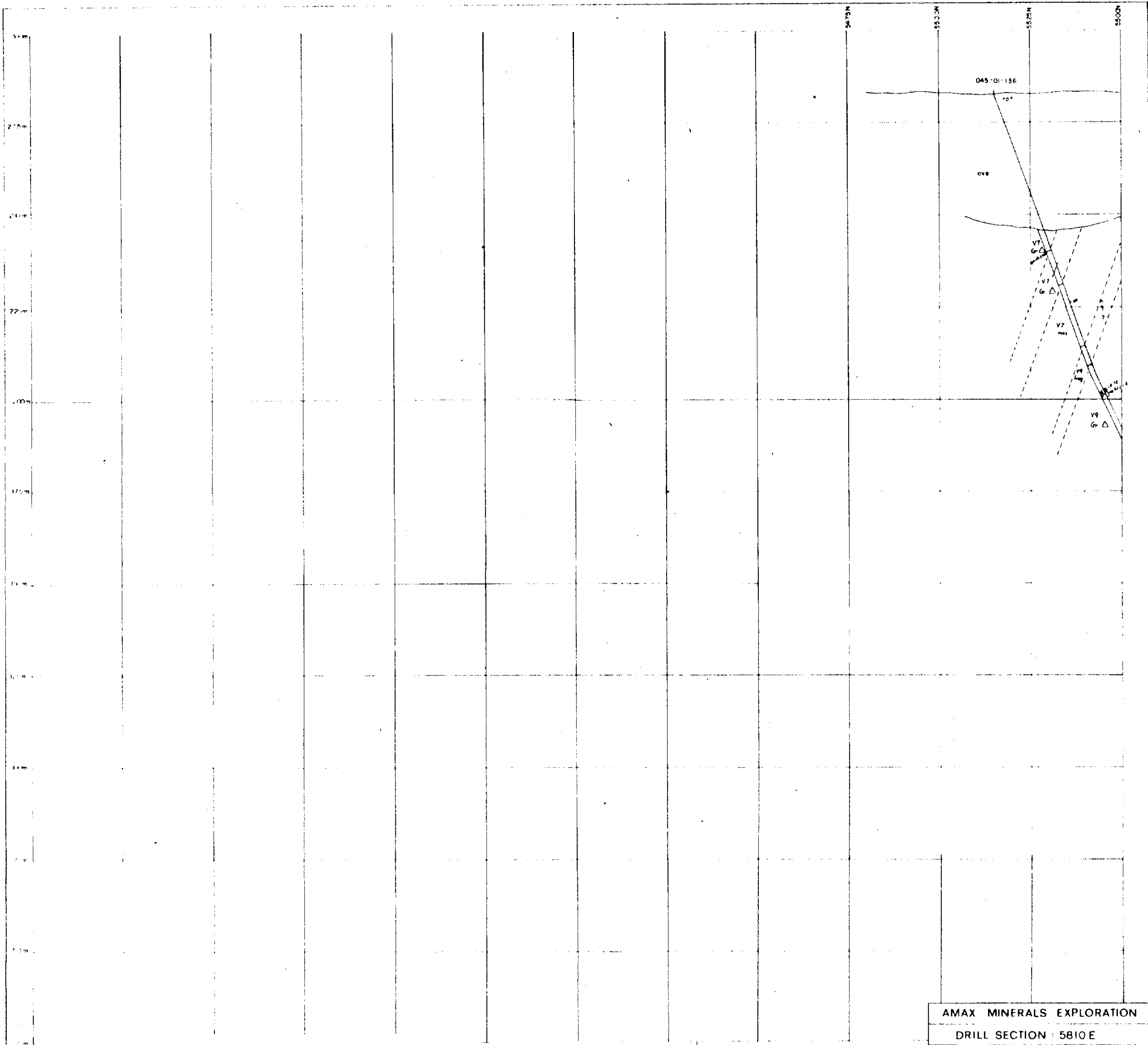


42A11SE0059 63.4115 HOYLE

340

Assay $\frac{\text{g}}{\text{m}^3}$
 63.4115
 DM 81-5-JV-37

AMAX MINERALS EXPLORATION	
DRILL SECTION : 5810 E	
BELL CREEK JV	
NORTH ZONE	
Broun Reef Property	
Hoyle Townshp, Ont	
Proj 045	Scale 1:1000
Date 08/09/85	



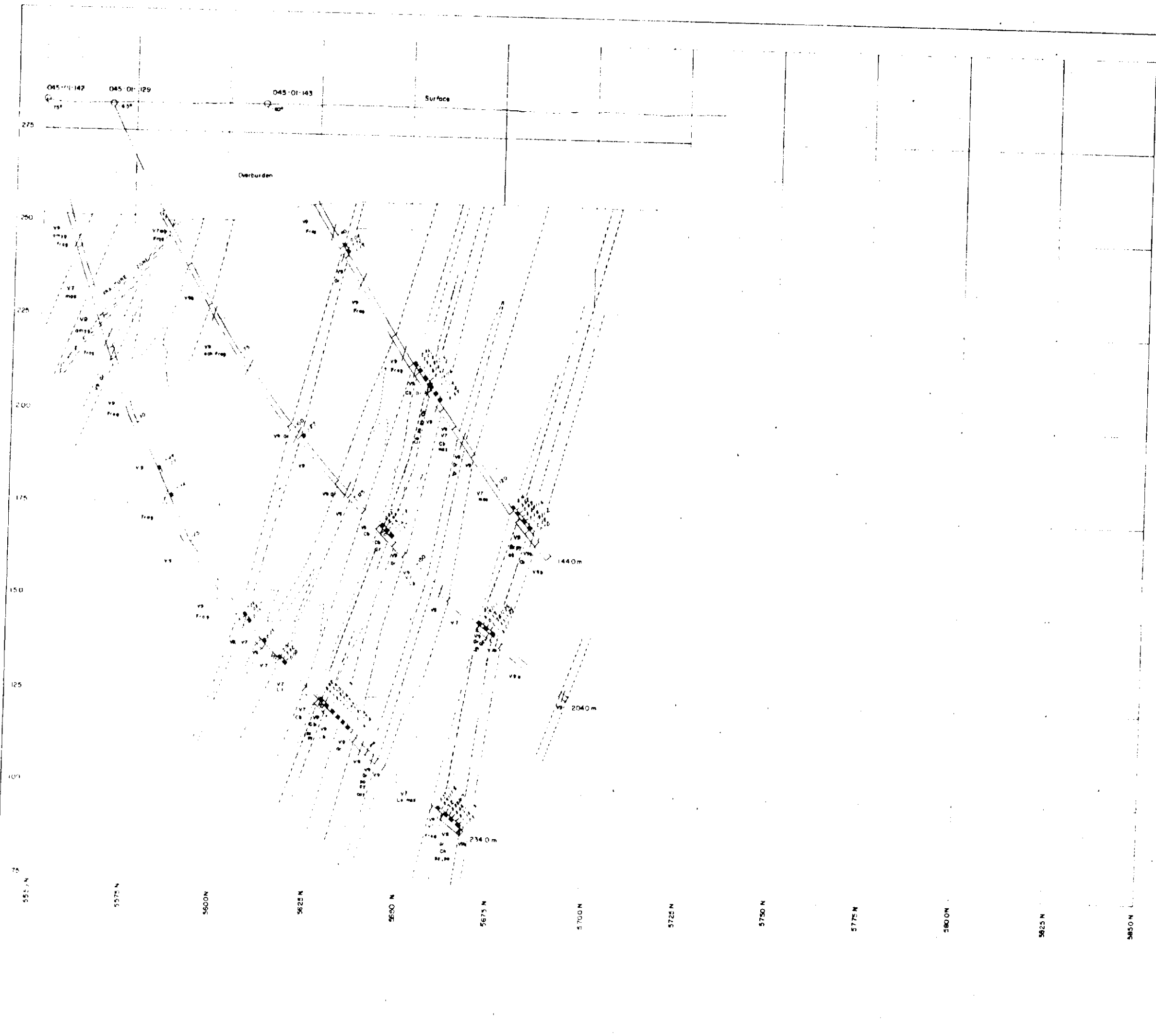
42A11SE0059 63.4115 HOYLE

350

Assay Au gms
meters

045-01-5-14-137

AMAX MINERALS EXPLORATION		
DRILL SECTION : 5810 E		
BELL CREEK J.V.		
NORTH ZONE		
Broulen Reef Property		
Hoy's Township, OR		
Proj: 045	Scale: 1:1000	Date: JAN 1983



42A11SE0059 63.4115 HOYLE

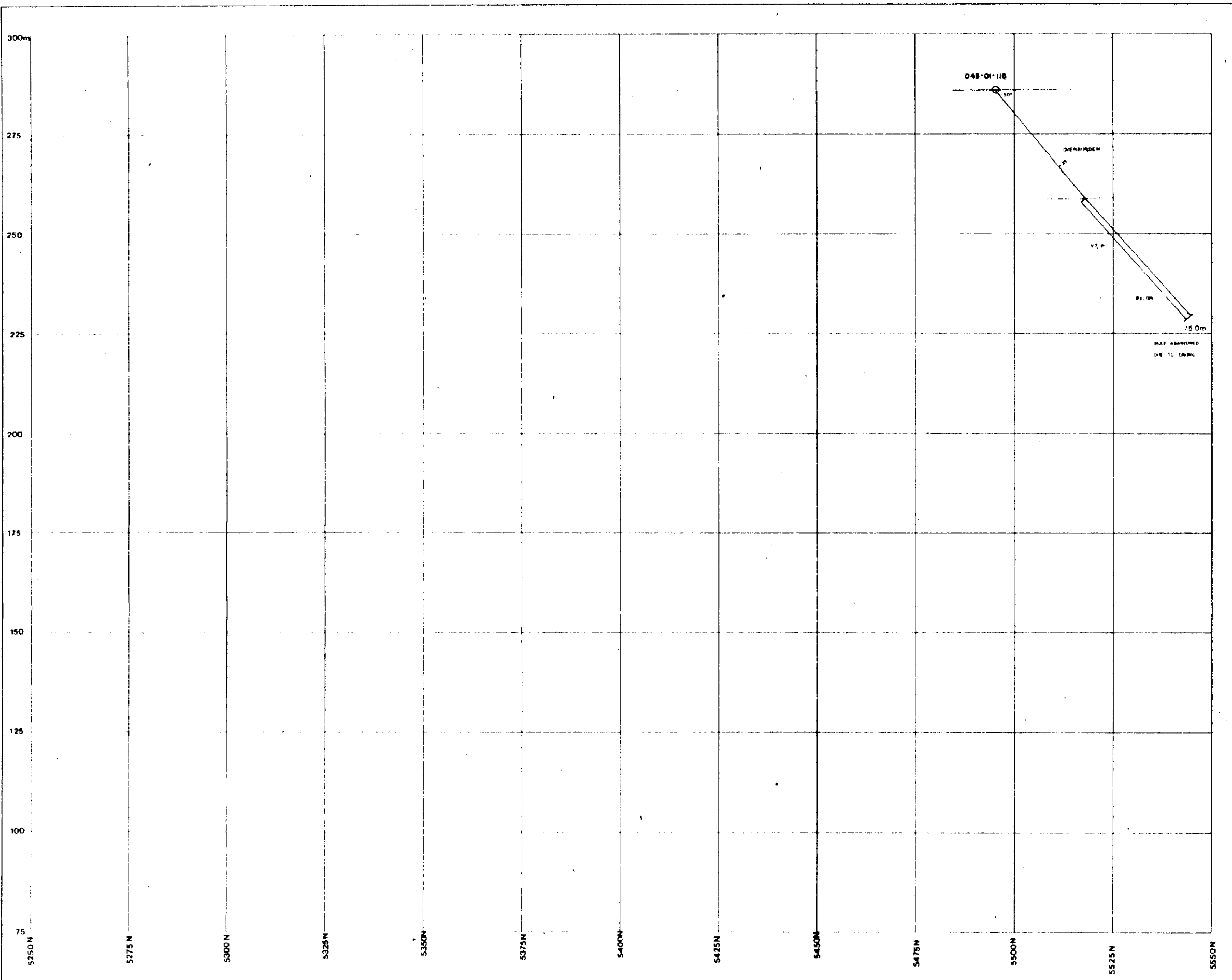
360

63.4115

0412-21-5-11-37

Assay Au gms
metres

AMAX MINERALS EXPLORATION		
DRILL SECTION : 5780 E		
BELL CREEK JV		
NORTH ZONE		
Brouhan Reef Property		
Hoyle Township, Ont		
Proj 045	Scale 1:1000	Date JAN 1984



Assay: Au gms
meters

AMAX MINERALS EXPLORATION		
DRILL SECTION : 5780E		
BELL CREEK J.V. North Zone Broutan Reef Prop Hoyle Township, Ont		
Proj: 045	Scale: 1:1000	Date: JAN 1983



42A115E0059 63.4115 HOYLE

370

63.4115
DM 81.5-10-137



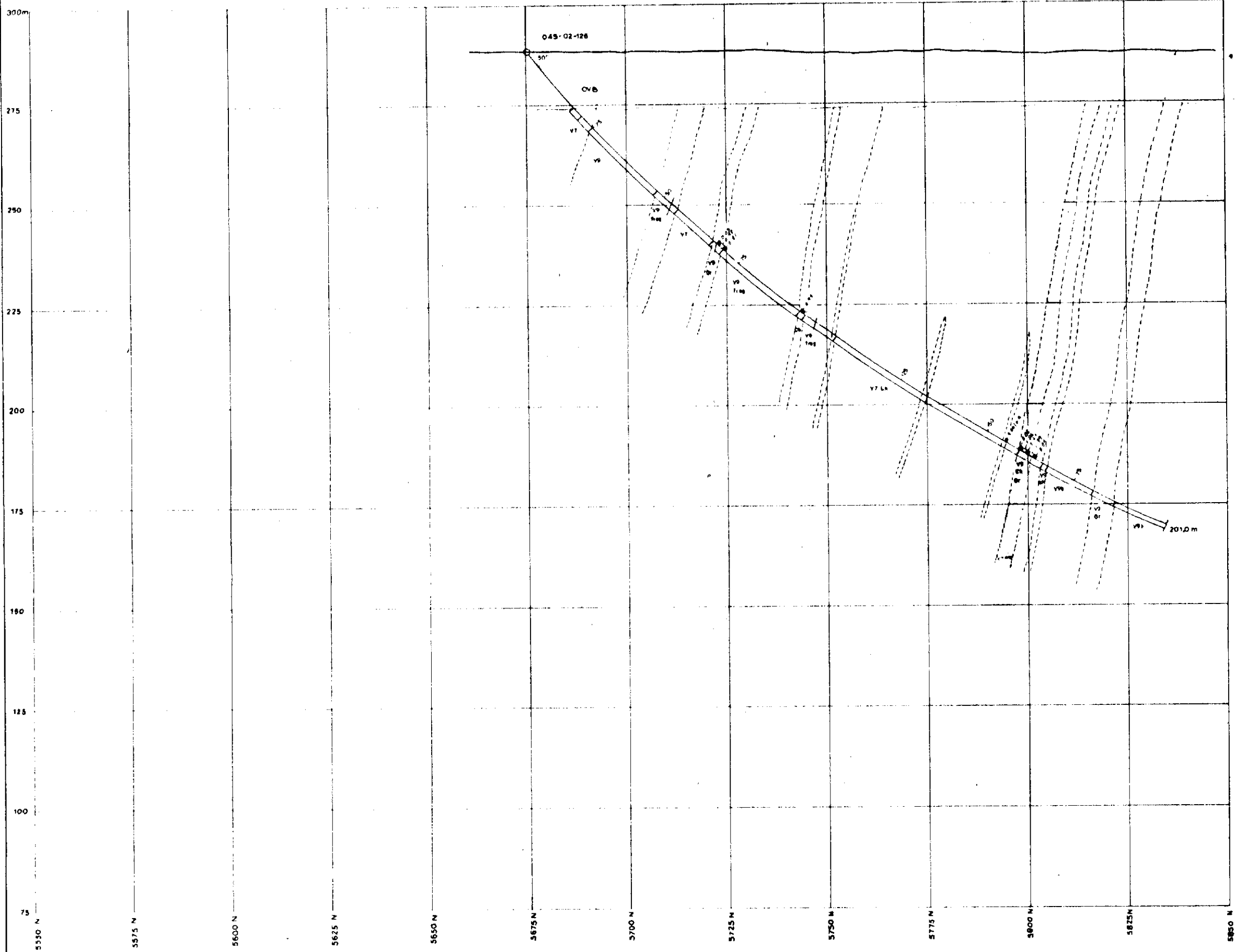
42A11SE0059 63.4115 HOYLE

390

63.4115

DIR 81-5-14-137

AMAX MINERALS EXPLORATION		
DRILL SECTION : 5046.5E		
BELL CREEK J.V.		
WEST OF NORTH ZONE		
Simultaneous		
Hoyle Township, Ont		
Proj. 045	Scale 1:1000	Date JAN 1981



Assay Au gms
meterg

AMAX MINERALS EXPLORATION		
DRILL SECTION : 5291E		
BELL CREEK J.V. NORTH ZONE Brouhan Reef Prop. Hoyle Township, Ont.		
Proj 045	Scale 1:1000	Date JAN 1983

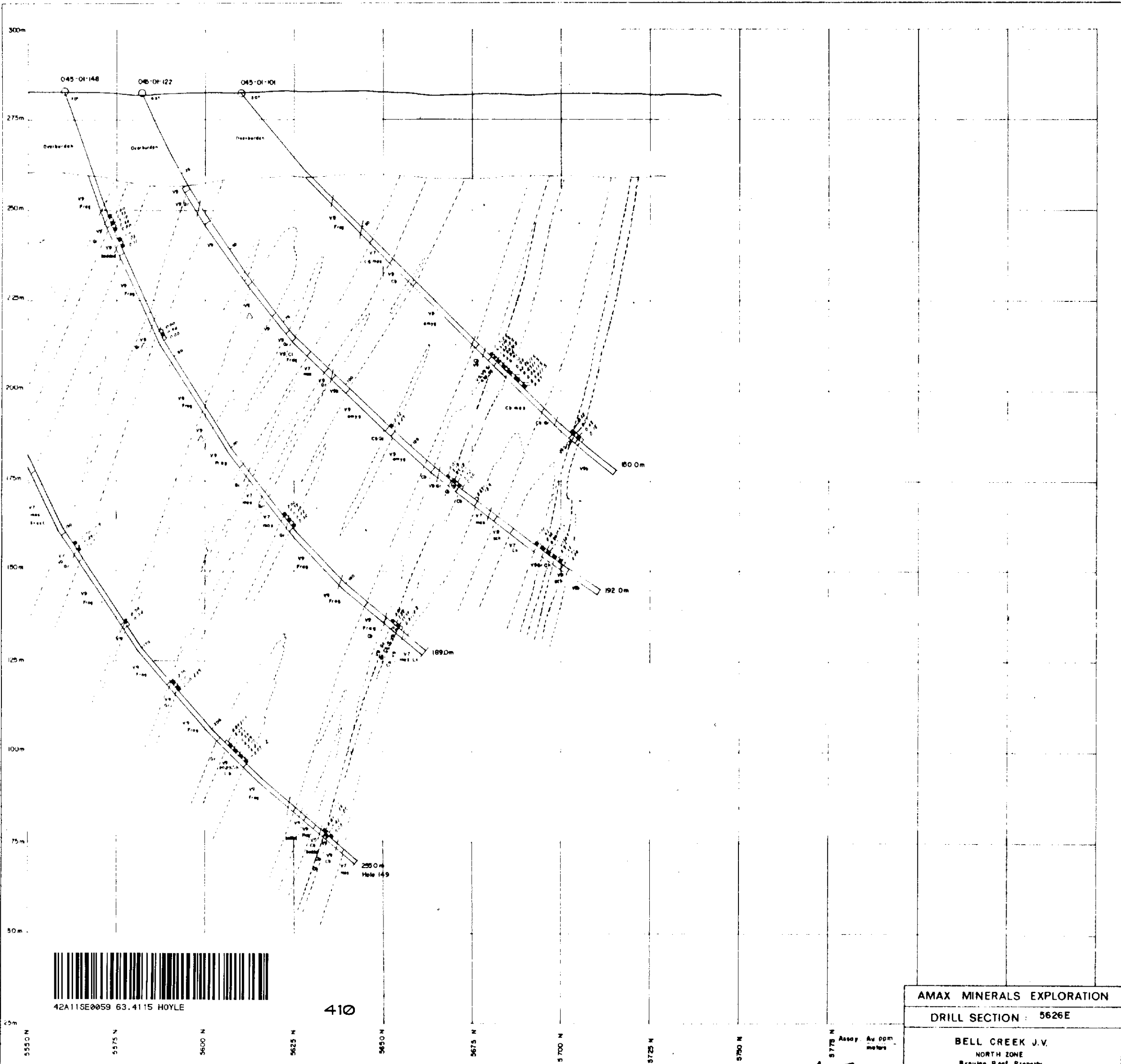
63.4115

045-02-126-137



42A11SE0059 63.4115 HOYLE

400



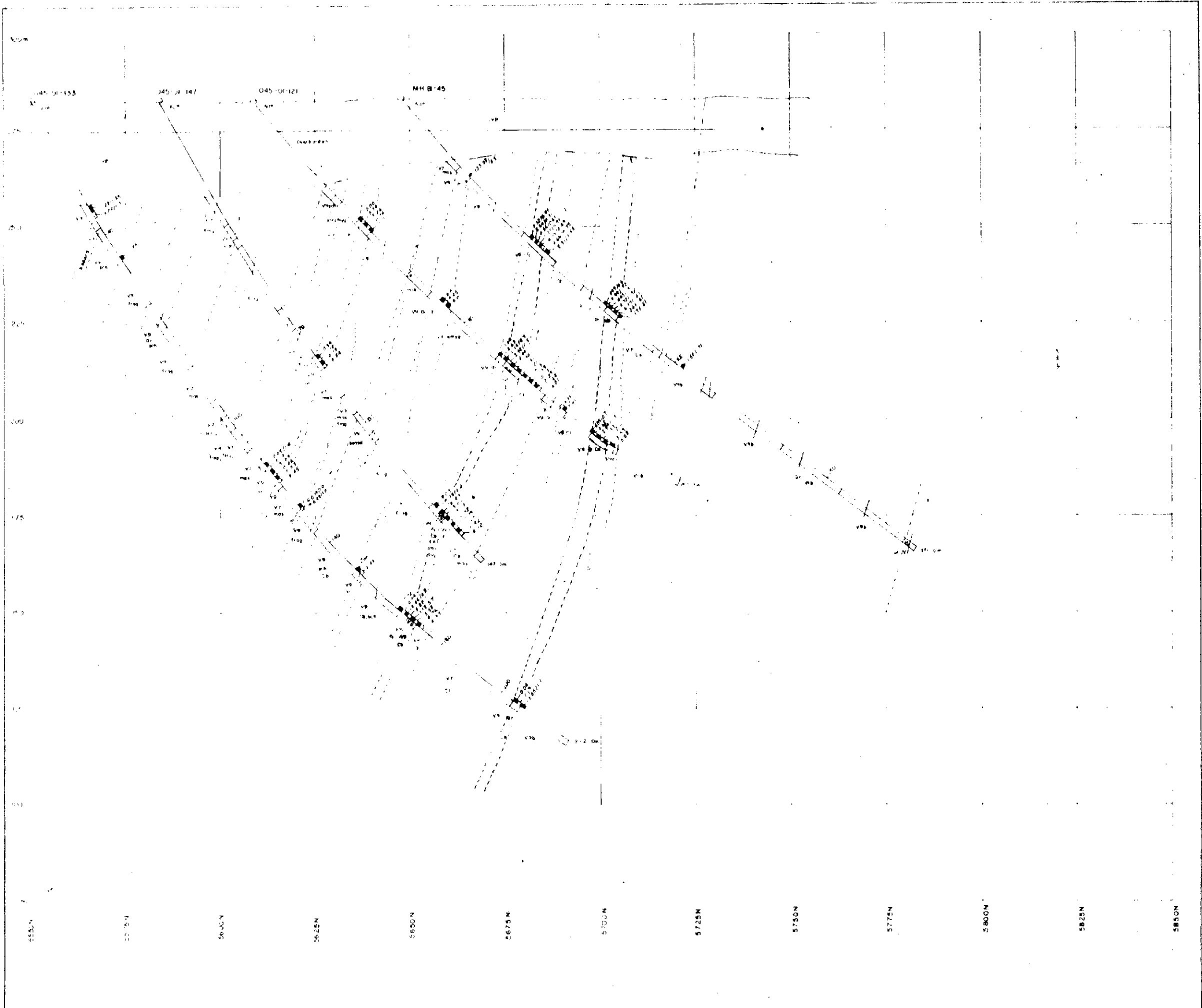
42A11SE0059 63.4115 HOYLE

410

63.4115

DM 51-5-16-137

AMAX MINERALS EXPLORATION		
DRILL SECTION : 5626E		
BELL CREEK J.V. NORTH ZONE Breiten Reef Property Hoyle Township, Ont.		
Proj 045	Scale 1:1000	Date JAN 1985



42A11SE0059 63.4115 HOYLE

420

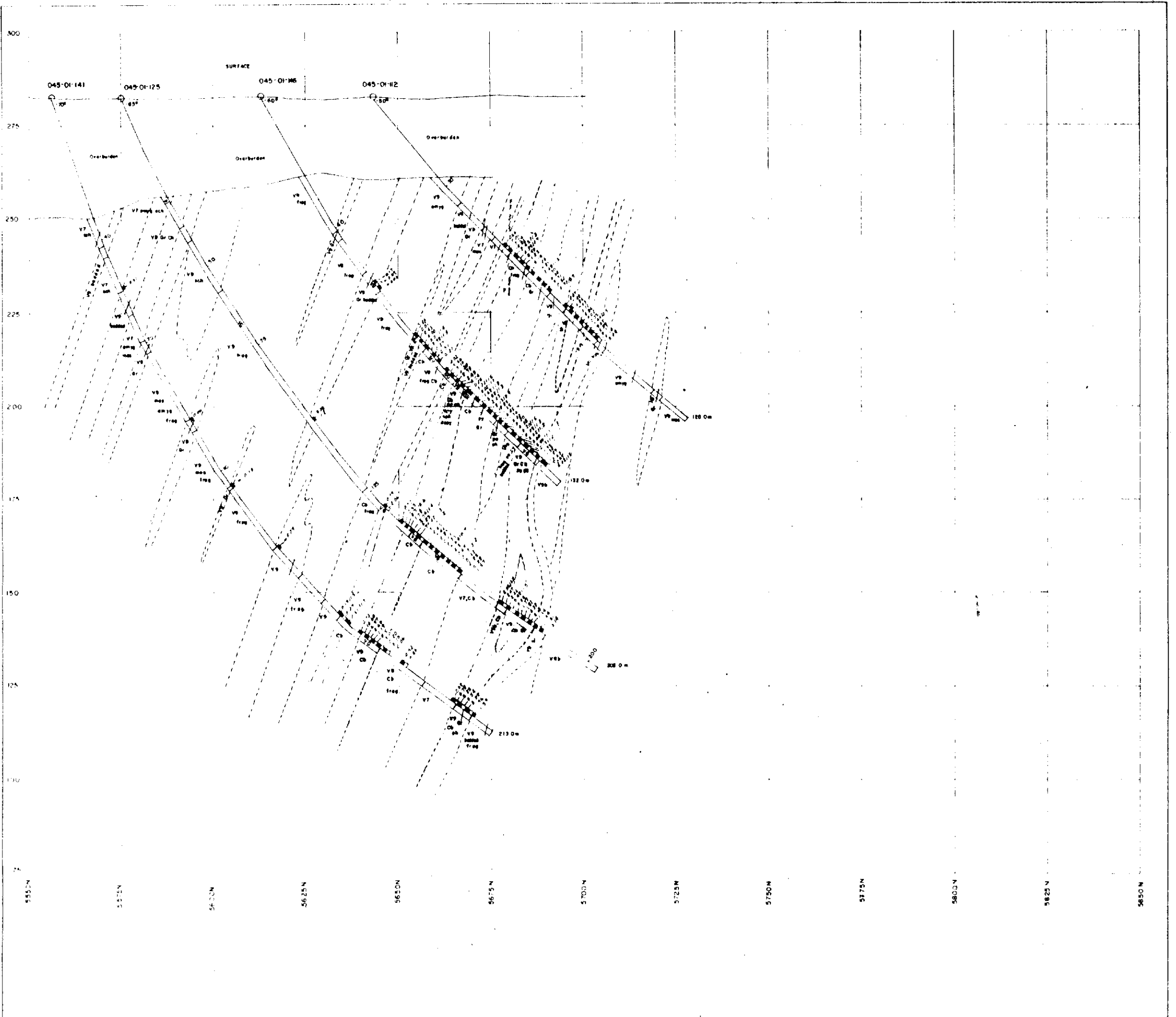
63.4115

011 21-5-10-137

Assay Augers
meters

AMAX MINERALS EXPLORATION		
DRILL SECTION : 5657E		
BELL CREEK J.V. NORTH ZONE Broulton Reef Property Hoyle Township, Ont		
Proj 045	Scale 1:1000	Date JAN 1983

7



42A11SE0059 63.4115 HOYLE

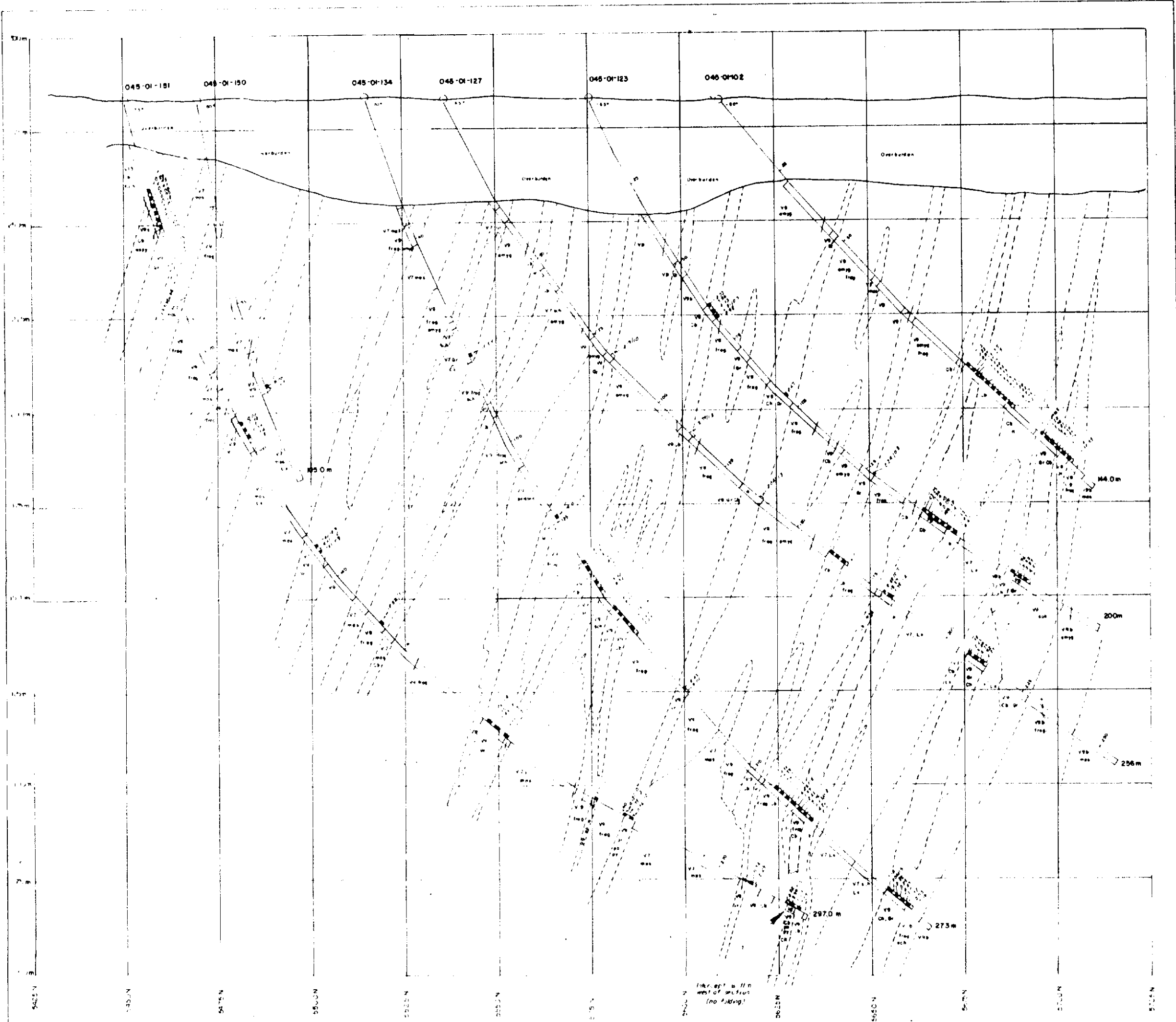
430

Assay Au gms
meters

63.4115

63.4115-10-137

AMAX MINERALS EXPLORATION			
DRILL SECTION : 5718E			
BELL CREEK J.V.			
NORTH ZONE			
Benton Reef Property			
Hoyle Township, Ont			
Proj	045	Scale	1:3000
Date	JAN 1964		



AMAX MINERALS EXPLORATION		
DRILL SECTION : 5689 E		
BELL CREEK JV.		
NORTH ZONE		
Brouton Reef Property		
Hoyle Township Unit		
Proj. 045	Scale 1:1000	Date JAN 1983



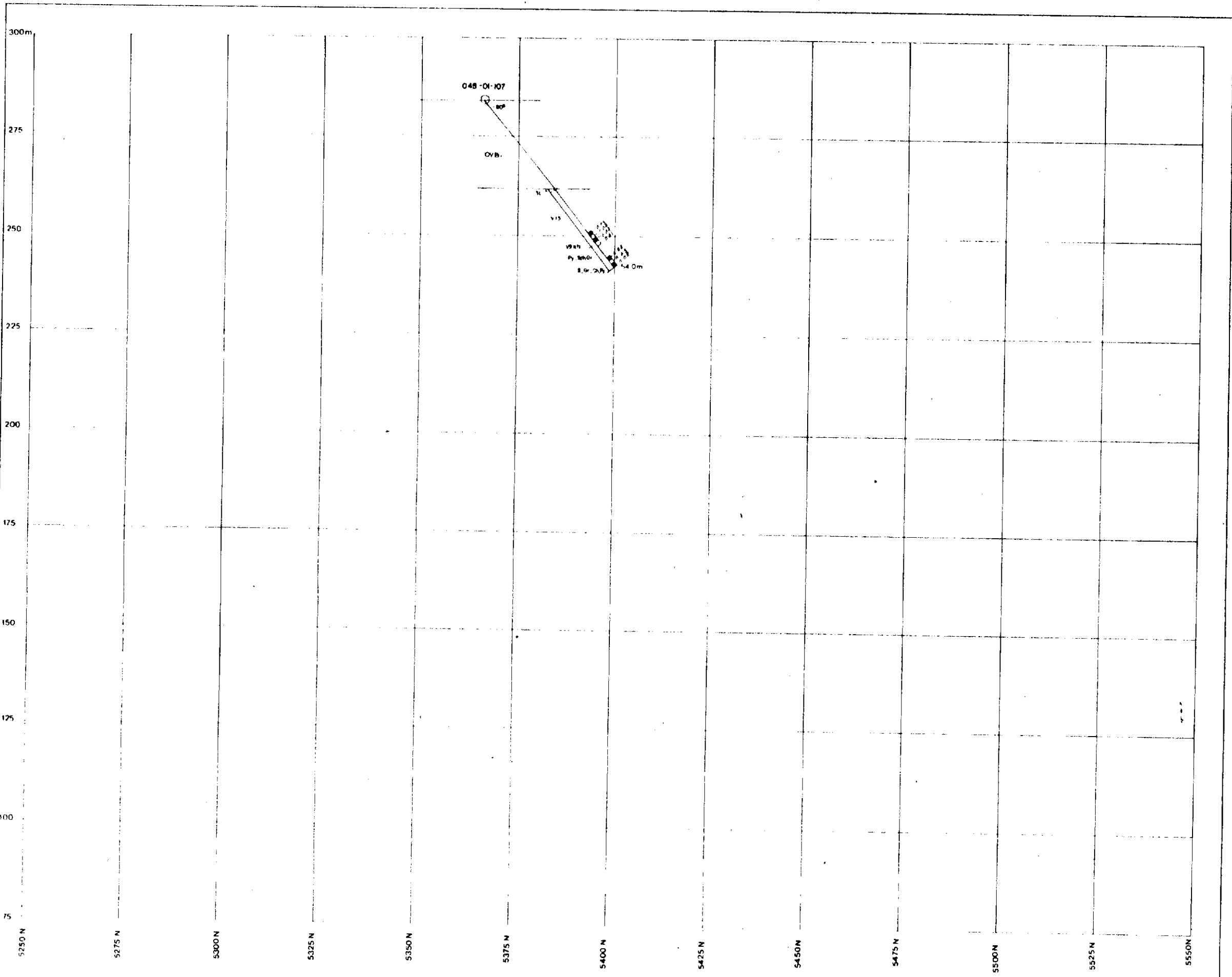
42A11SE0059 63.4115 HOYLE

440

63.4115

OM 87-5-21-137

Asdy 80.75
meters



42A11SE0059.63.4115 HOYLE

470

63.4115

0100 01-5-80-137

Assay Au gms meters		
AMAX MINERALS EXPLORATION		
DRILL SECTION : 6117E		
BELL CREEK J.V.		
BELL CREEK ZONE - EAST PART		
Broulan Reef Prop		
Hoyle Township Ont		
Proj	Scale 1:1000	Date JAN 1983

300
275
250
225
200
175
150
125
100
75

5480 N

5475 N

5500 N

5525 N

5550 N

5575 N

5600 N

5625 N

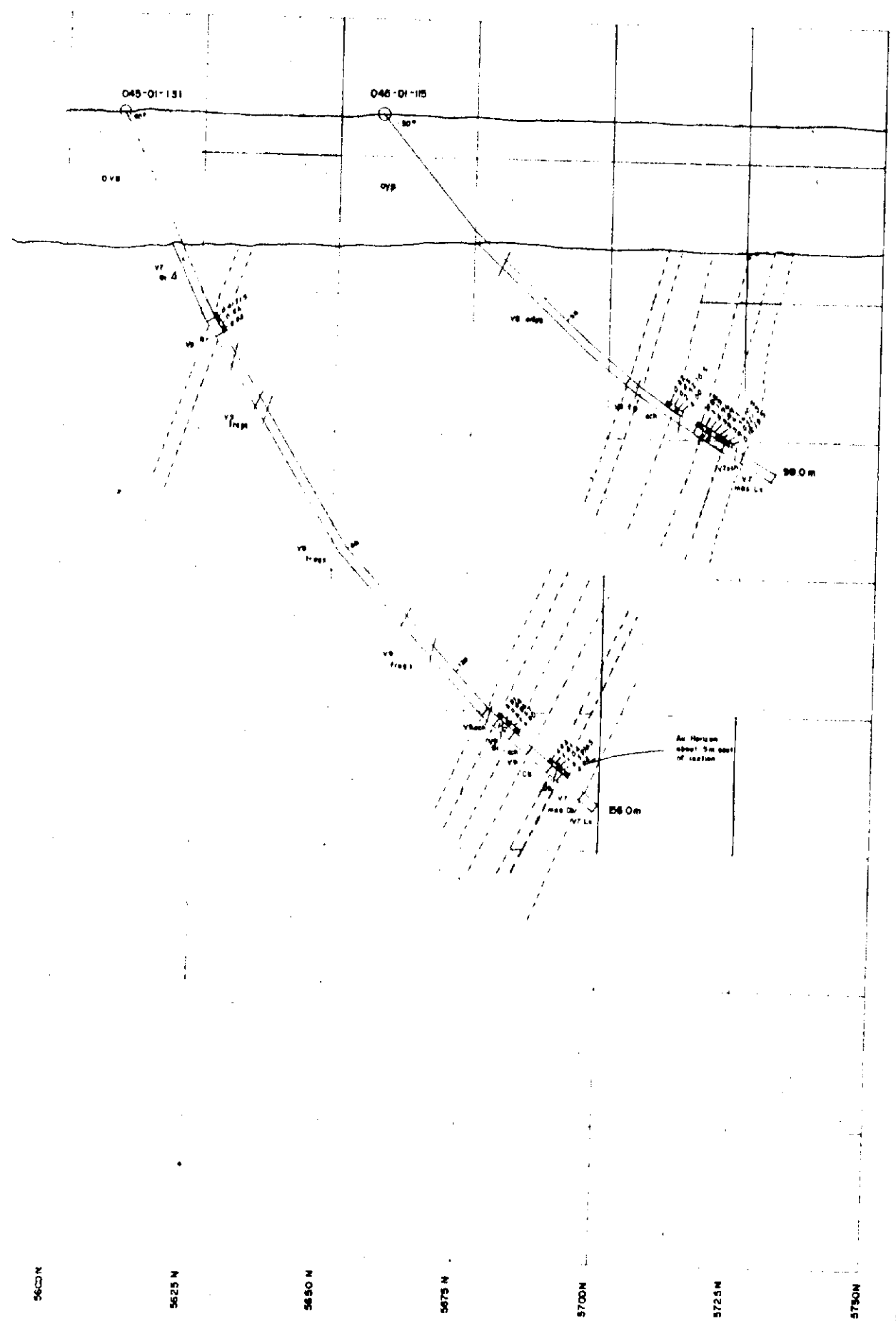
5650 N

5675 N

5700 N

5725 N

5750 N



42A11SE0059 63.4115 HOYLE

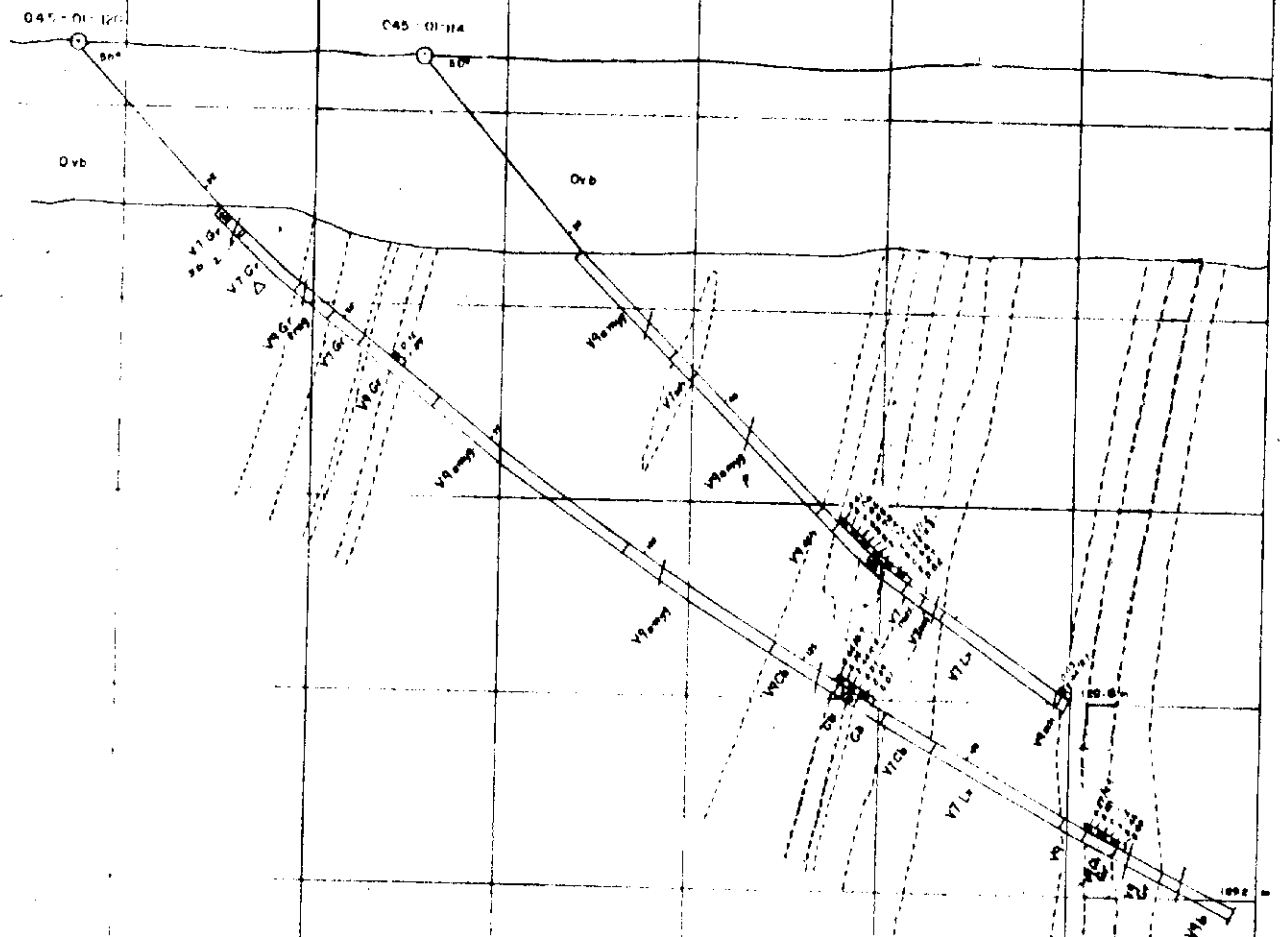
480

63.4115

045-01-5-36-137

Assey: Av 3ms
no logs

AMAX MINERALS EXPLORATION		
DRILL SECTION : 5534 E		
BELL CREEK J.V.		
NORTH ZONE		
Braulon Reef Property		
Hoyle Township, Ont.		
Proj 045	Scale 1:1000	Date JAN 1983



42A11SE0059 63.4115 HOYLE

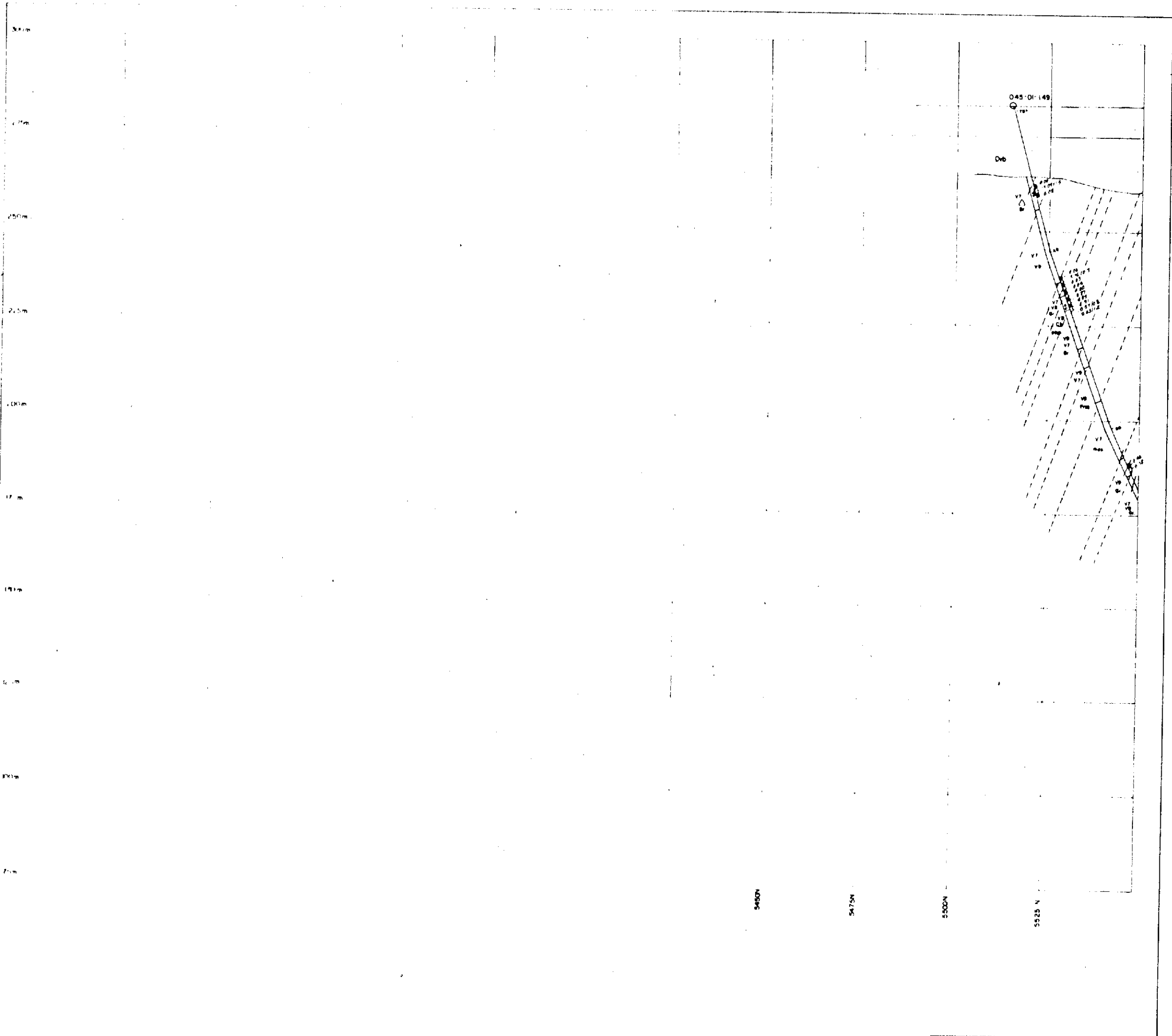
500

63.4115

OW 81-5-W-137

Assay: Au gms
meters

AMAX MINERALS EXPLORATION	
DRILL SECTION 5566E	
BELL CREEK J.V.	
NORTH 1/4	
Houlton Reef Property	
Hoyle Township, Ont	
Proj: 044	Date: 10/20/00
Scale: 1:1000	



42A11SE0059 63.4115 HOYLE

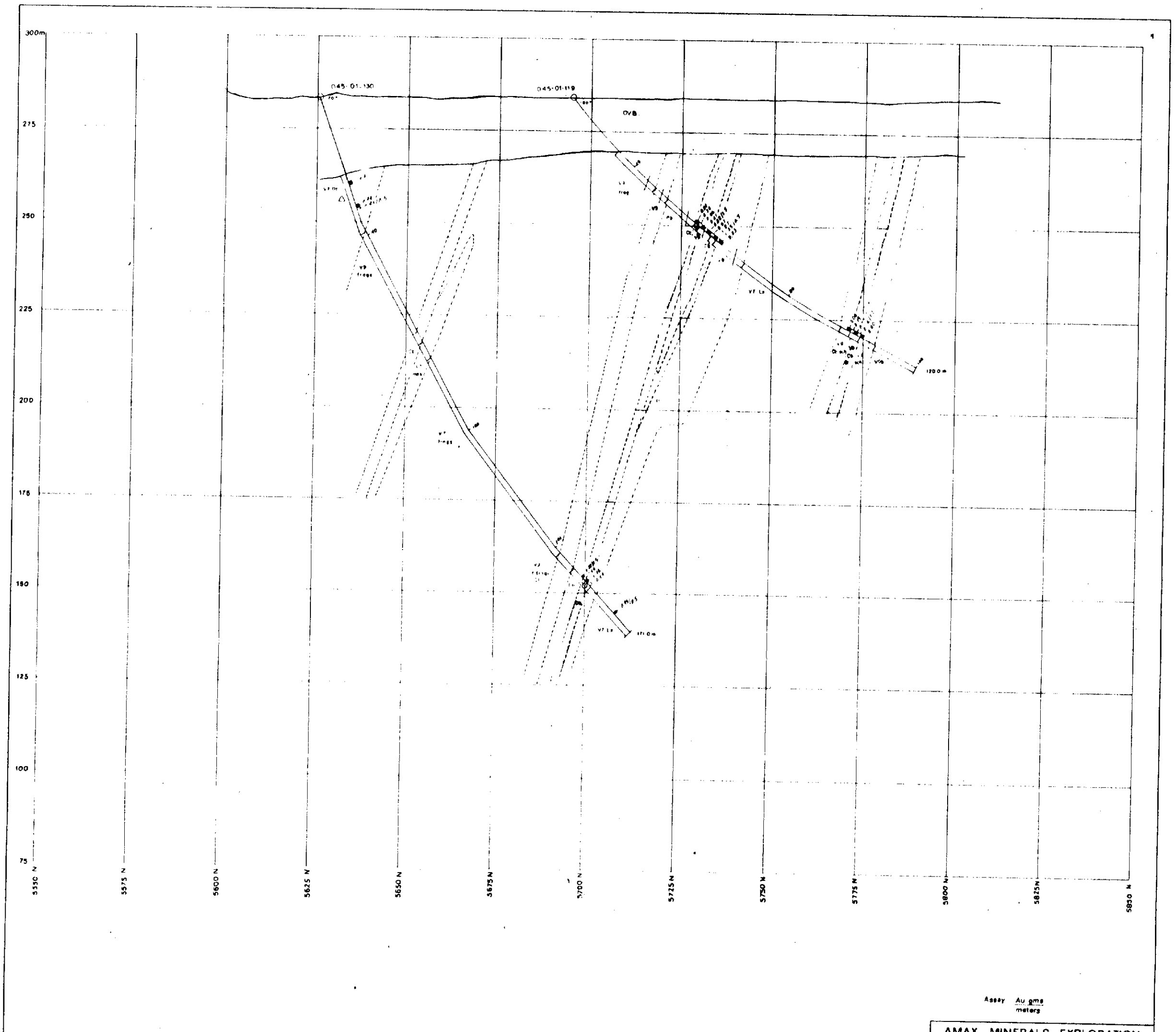
520

63.4115

411 21-5-10-137

Assay Au gms
meter

AMAX MINERALS EXPLORATION		
DRILL SECTION : 5626E		
BELL CREEK J.V		
NORTH ZONE		
Reclaim Reef Property		
Hoyle Township, Ont		
Proj 045	Scale 1:1000	Date JAN 883



42A11SE0059 63.4115 HOYLE

530

63.4115

045-01-130-119

Assay Au gms
meters

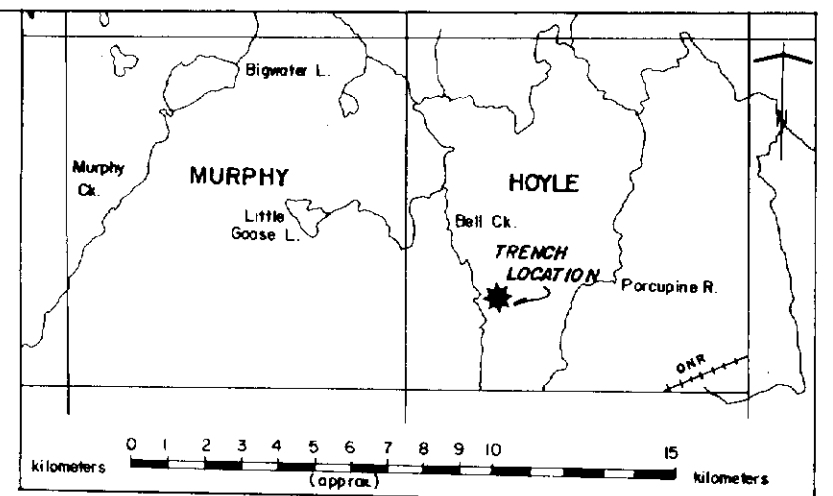
AMAX MINERALS EXPLORATION

DRILL SECTION : 5476E

BELL CREEK J.V.
NORTH ZONE
Brouhan Reef Prop
Hoyle Township, Det.

Proj 248 Scale 1:1000 Date JAN 1983

7



- LEGEND**
- ▬▬▬▬▬▬ QUARTZ VEINS (Auriferous)
 - ▬▬▬▬▬▬ QUARTZ STRINGERS
 - ▬▬▬▬▬▬ SHEAR-SHEAR ZONES
 - ○ ○ ○ ○ OUTCROP BOUNDARY
 - ▬▬▬▬▬▬ WINTER ROAD
 - ▬▬▬▬▬▬ PROJECTED LOCATION OF M VEINS FROM DRILLING
 - 0.99 3.3 ASSAY : Au gms (split core)
meters

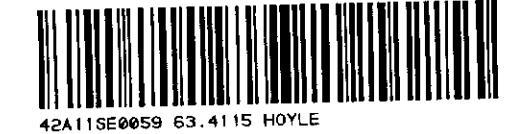
Coding Of Au Qtz Veins

TR - 3	M + M1	Veins
TR - 2	BR + M2	Veins
TR - 1	M3	Vein

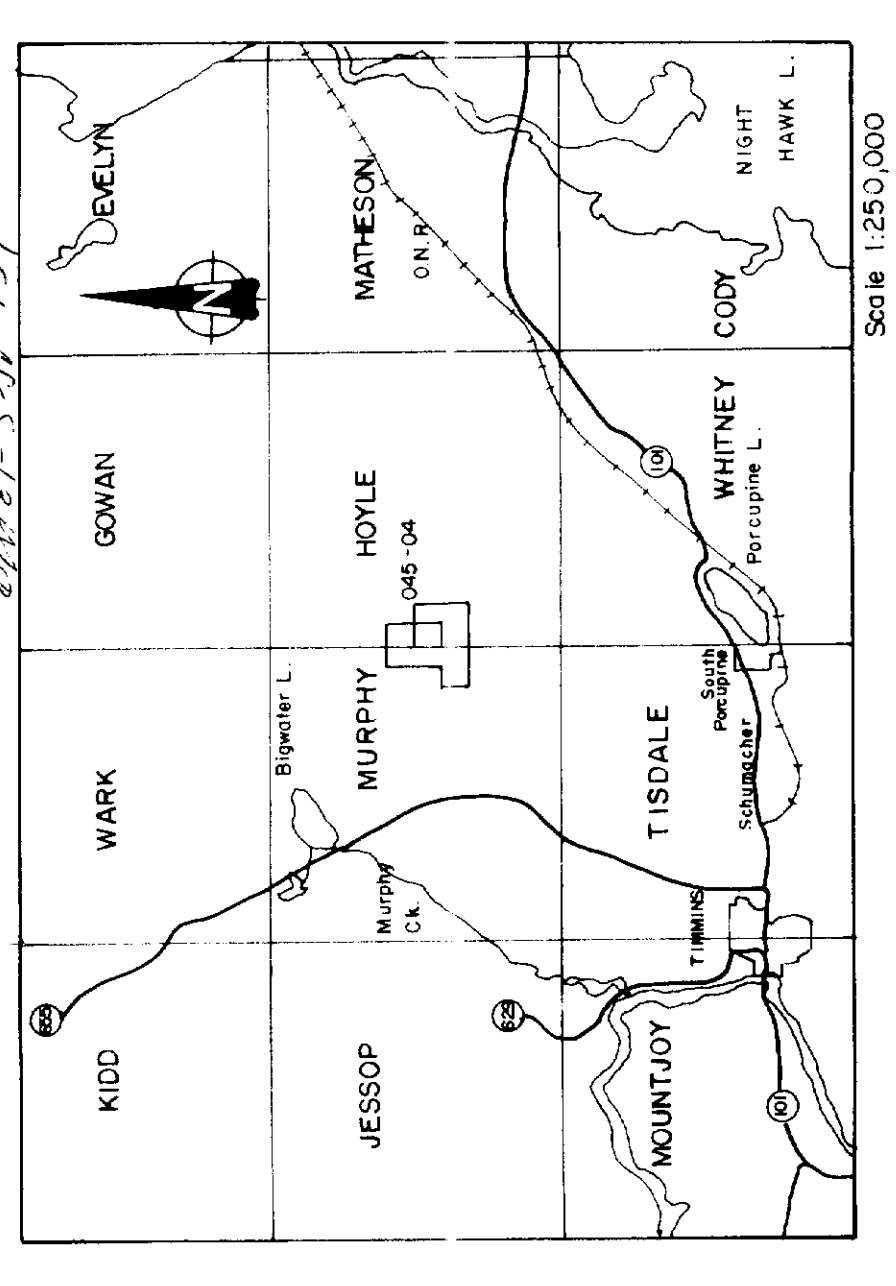
MAP 8

AMAX MINERALS EXPLORATION
 GEOLOGY AND TRENCH LAYOUT
 BELL CREEK JOINT VENTURE
 (Broulan Marlhill Properties)
 114 51-5-16-137 63.4115
 NTS 42-A-11 DATE August 1982
 TIMMINS OFFICE TO ACCOMPANY 1982 PROGRESS REPORT
C.R. Kauter

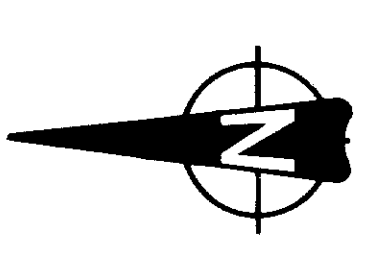
SCALE 1:1000



63 7115

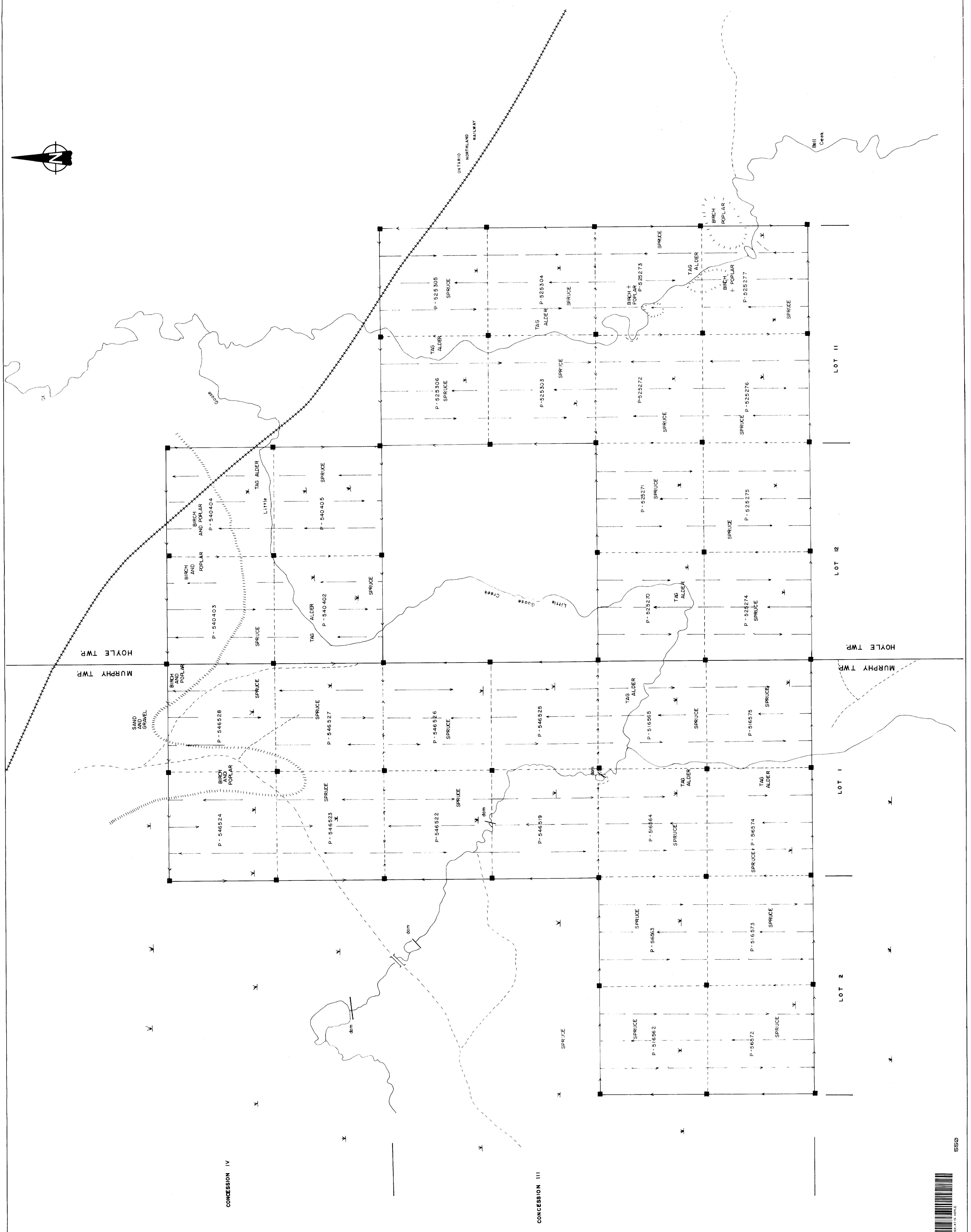


INDEX MAP



- SYMBOLS**
- CLAIM POST
 - BUSH ROAD
 - ⋈ SWAMP
 - TRAMVERSE LINE

NOTE: NO OUTCROP LOCATED



Amax Minerals Exploration
 Murphy and Hoyle Townships
GEOLOGICAL SURVEY
 Bell-04, 0-95-04
 Bell Creek Joint Venture
 Scale 1:5000
 October 1982
 To Assesment Report By: Timmins Office

CONCESSION IV

CONCESSION III



550

