

63-4264
pt. 1



52J026E8677 63.4264 SQUAW LAKE

010

A REPORT ON THE DIAMOND
DRILLING AND GEOPHYSICAL SURVEY
WORK CONDUCTED ON THE
ST. ANTHONY GOLD MINE PROPERTY
OF AUBET RESOURCES INC.
BETWEEN JANUARY 19 AND MARCH 3, 1983

by

Halo Centrex Inc.
Suite 1608
330 Bay Street
Toronto, Ontario, M5H 2S8

OM 82-2-C-156

April 19, 1983

TABLE OF CONTENTS

	<u>Page No.</u>
SUMMARY	i
CONCLUSIONS AND RECOMMENDATIONS	iii
INTRODUCTION	1
PROPERTY LOCATION AND ACCESS	1
LAND POSITION	3
GEOLOGY	3
PREVIOUS WORK	5
1983 WORK PROGRAM	6
a) Geophysical Surveys	6
1. Magnetic Survey Results	6
2. VLF-EM Survey Results	9
b) Drilling Program	12
1. Drill Holes SA83-1 and SA83-2	12
2. Drill Holes SA83-3, SA83-4 and SA83-5	15
c) Mineralization	17
d) Discussion of Results	18
CONCLUSIONS	24
RECOMMENDATIONS	26
APPENDICIES	30
Appendix A - St. Anthony Gold Mine Property Claim Listing	
Appendix B - A Report on the St. Anthony Mine Property of Aubet Resources Inc., Sturgeon Lake, Ontario G.M. Hogg & Associates, September 22, 1981	
Appendix C - Geophysical Surveys for Aubet Resources Inc. by Northwest Geophysics Ltd.	
Appendix D - Diamond Drill Logs for Holes SA83-1, SA83-2, SA83-3, SA83-4 and SA83-5	
Appendix E - Geological Rock Unit Descriptions	
Appendix F - Core Assay Results	
Appendix G - Expenditure Summary	

LIST OF TABLES, FIGURES AND PLATES

	<u>Page No.</u>
Figure 1 - General Location Plan	2
Figure 2 - Claim Location Plan	4
Figure 3 - Longitudinal Section of Mine Showing Drill Hole Pierce Points	14
Table 1 - Magnetic Survey Anomaly Data	7
Table 2 - VLF -EM Fraser Filter Anomaly Data	8
Table 3 - Drill Hole Data - SA83-1 to SA83-5	13
Table 4 - Mineralized Zones of Interest in the No. 1 and No. 2 Vein Systems	19
Table 5 - Additional Core Sampling and Assaying	20
Table 6 - Proposed Diamond Drill Holes	27
Table 7 - Cost Estimate for the Recommended Exploration Program	28
Plate 1 - Drill Hole Location Map	in pocket
Plate 2 - Geologic Section Drill Hole SA83-1	''
Plate 3 - Geologic Section Drill Hole SA83-2	''
Plate 4 - Geologic Section Drill Hole SA83-3	''
Plate 5 - Geologic Section Drill Hole SA83-4	''
Plate 6 - Geologic Section Drill Hole SA83-5	''
Plate 7 - VLF-EM Survey	''
Plate 8 - VLF-Fraser Filter Data	''
Plate 9 - Magnetometer Survey	''

SUMMARY

A diamond drilling and geophysical survey exploration program was carried out on the St. Anthony Gold Mine Property of Aubet Resources Inc., located near the north end of Sturgeon Lake, Ontario, during the period January 19 - March 3, 1983. The purpose of this program was to explore for the extension of the No. 1 Vein System outside the previously mined areas, to evaluate the ore making potential of the No. 2 Vein System and to identify new exploration targets on the property.

The work program consisted of 5 drill holes for a total of 4,487 feet, 12 line miles of proton magnetic surveying and 10.5 line miles of V.L.F. electromagnetic surveying.

The drill program confirmed the extension of the No. 1 Vein System below the old mine workings and numerous anomalous gold values were obtained within this System. No ore grade mineralization over mineable widths was encountered, the best assays being 0.43 oz. Au/ton over 1.7 feet and 0.37 oz. Au/ton over 2.0 feet. The confirmation of the continuation of the mineralized structure below the 750 foot level is considered significant and one additional drill hole totalling 1,000 feet is recommended to further evaluate the No. 1 Vein System at depth. Additional drilling should be deferred until completion of an I.P. survey to the north of the old mine workings.

The No. 2 Vein System was intersected in all 3 holes which tested it. One of the 3 holes intersected 5.3 feet grading 0.50 oz. Au/ton. Gold values of 0.16 oz. Au/ton over 1.3 feet and 0.056 oz. Au/ton over 3.1 feet were encountered in the other 2 holes. The No. 2 Vein System has now been shown to have a strike length in excess of 600 feet and a depth extent of over 350 feet. Drilling conducted in 1983 was done down lithologic dip in order to cross cut the mineralized zones. Since it is believed that ore grade mineralization may be spatially related to the granite-volcanic contact where it is cut by a shear zone, two drill holes to be drilled across the lithologic dip are recommended to further evaluate the No. 2 Vein System and to determine the

geological picture at depth.

Geophysical surveys have identified 7 magnetic and 8 electromagnetic anomalies which warrant further investigation. Coincident magnetic and VLF-EM anomalies, believed to represent the extension of the shear zone which hosts the No. 1 Vein System to the south of it are recommended for drill testing by 2 holes for a total of 800 feet. A 3 mile I.P. survey is recommended to locate and evaluate what is believed to be the extension of the No. 1 Vein System shear zone to the north of the old mine workings. Six magnetic and seven electromagnetic anomalies identified by the geophysical surveys warrant field examinations to determine their cause.

The St. Anthony Gold property has an excellent chance of hosting an economic gold deposit and on budget of \$122,000 should be provided to carry out the recommended work program.

Conclusions:

On the basis of the work completed to date, the following conclusions have been drawn:

1. The No. 1 Vein System, extends below the old mine workings and is characterized by a series of en-echelon veins with zones of quartz lacing in between.
2. The absence of ore grade mineralization over mineable widths in the recent drill testing of the No. 1 Vein does not rule out the existence of an economic gold deposit below the old mine workings since 3 drill holes over a strike length in excess of 400 feet cannot be expected to accomplish more than confirm the presence or absence of the mineralized structure.
3. The gold ore shoots of the No. 1 Vein System appear to be spatially, if not genetically, related to the granite-volcanic contact where it is intersected by the major shear zone which hosts the No. 1 Vein System.
4. Further drill testing of the No. 1 Vein System is warranted to evaluate its ore making potential. Specific efforts should be made to locate the volcanic-granite contact where it is cut by the major shear zone at depth.
5. The No. 2 Vein System occurs over a drill indicated strike length in excess of 600 feet and to a depth of at least 350 feet. The identification of ore grade gold mineralization over mineable widths in 1 out of 3 drill holes which tested this zone in 1983 and gold intersections of economic interest in 2 out of 7 holes drilled in 1965 indicate that the No. 2 Vein System has the potential to host an economic gold deposit.
6. The location of economic grade gold mineralization in the No. 2 Vein System spatially associated with the granite-volcanic

contact where it is cut by the No. 2 Vein System shear zone indicates that the location of this contact at depth must be determined.

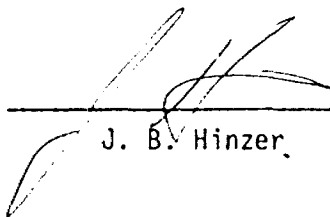
7. Geophysical surveys have indentified the probable extension of the No. 1 Vein System both to the north and to the south of the old mine workings. These anomalous zones warrant systematic evaluation.
8. Geophysical surveys have identified 6 magnetic and 7 electro-magnetic anomalies which warrant field examinations to determine their cause.
9. The St. Anthony Gold property has an excellent chance of hosting an economic gold deposit and a substantial exploration effort is warranted to evaluate this potential.

Recommendations:

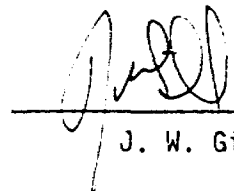
On the basis of the work completed to date, the following recommendations are made:

1. Conduct a geological field investigation of magnetic anomalies D, E, F, G, H, I and VLF-EM anomalies A, E, F, G, I, J, M (Plate 1) to determine their cause where possible. This work will involve mapping, sampling and assaying.
2. Conduct a 3 mile I.P. Survey to evaluate magnetic anomaly F and VLF-EM anomaly J. The purpose of this work is to identify and locate the extension of the shear zone which hosts the No. 1 Vein System from L8N to L44N and to identify drill targets within this zone. This work must be done following freeze-up next winter since approximately 1/3 of the survey area lies under the lake.
3. Drill two holes (SA83-9, SA83-10; Plate 1; Table 6) totalling 800 feet to test geophysical anomalies "C" (Plate 1) for gold mineralization. This drilling should follow a geological examination to determine the dip of the lithology and structures.
4. Drill two holes (SA83-6, SA83-7; Plate 1; Table 6) totalling 1,700 feet to test the No. 2 Vein System 50 - 100 feet above and below the No. 2 Vein intersection of drill hole SA83-4. These holes should be drilled from East to West in order to drill across the lithologic dip so that a geological picture of the relationship of mineralization to lithology can be determined.
5. Drill one hole (SA83-8; Plate 1; Table 6) totalling 1,000 feet to further evaluate the No. 1 Vein System to the north of drill hole SA83-3 and at the same level.

6. Defer further evaluation of the No. 1 Vein System to the north of and below drill holes SA83-1 and SA83-2 until the geophysical surveys recommended in 2. above have been completed and evaluated.
7. Conduct this program in conjunction with the tailings program scheduled for May, 1983.
8. Conduct additional sampling and assaying of core from 1983 winter drill program as listed in Table 5 of this report.
9. Provide \$122,000.00 to conduct this program. Table 7 presents an estimated breakdown of the costs to be incurred for these purposes.



J. B. Hinzer



J. W. Gill

Introduction

On September 22, 1981 an engineering report on the St. Anthony Gold Mine property of Aubet Resources Inc. was completed by G.M. Hogg & Associates Ltd.. This report reviewed all the previous production history and exploration work and made recommendations for a 2 stage evaluation program designed to confirm the ore extension of the No. 1 Vein System outside previously stoped areas, to test the No. 2 Vein System over a 400 foot strike length, to identify new exploration drill targets and, contingent upon encouragement from this work, to dewater the shaft, sample and carry out limited development work within the existing mine workings.

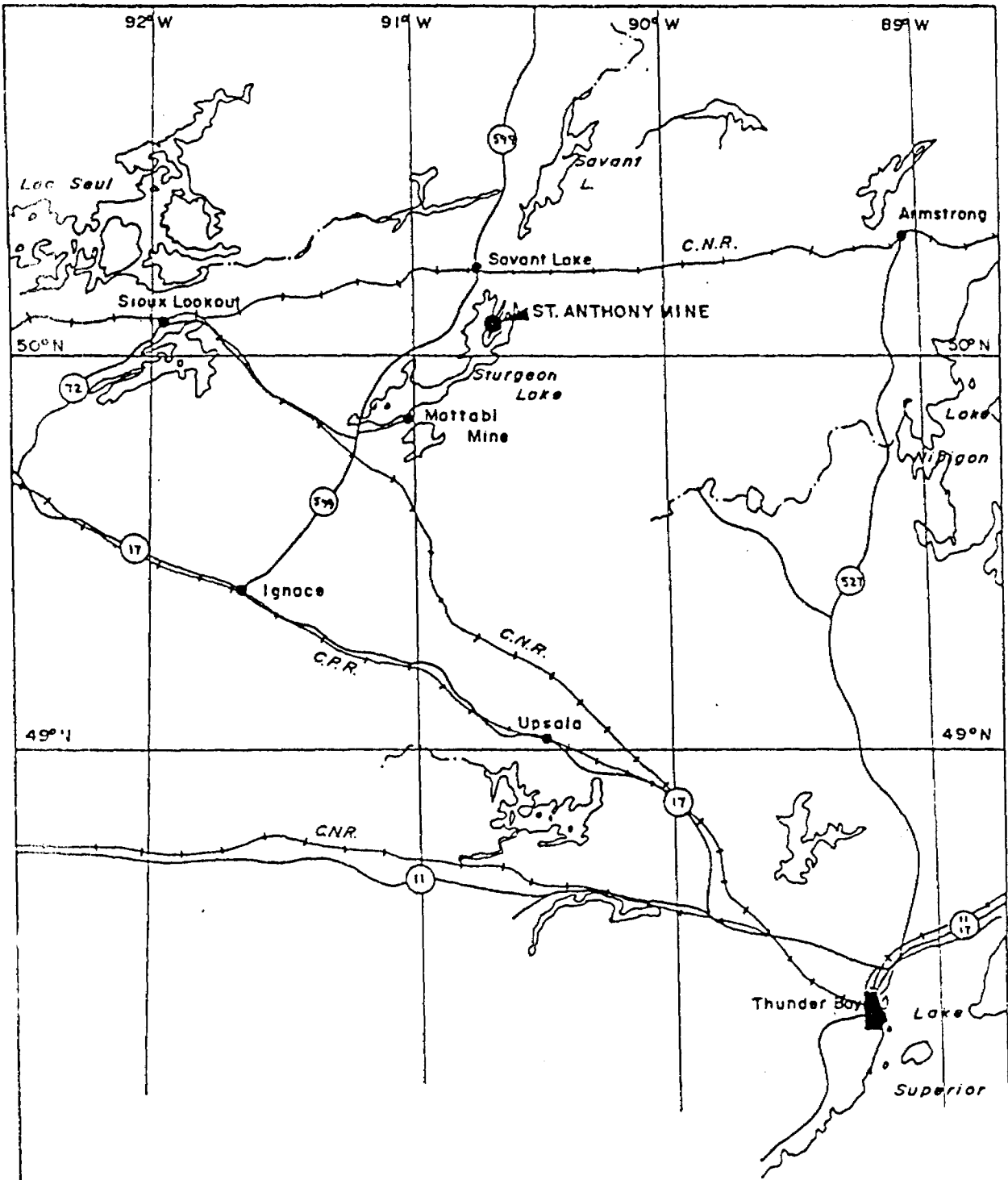
On November 29, 1982, Aubet Resources Inc. contracted Halo Centrex Inc. to manage and conduct the Stage 1 evaluation program as recommended by G.M. Hogg & Associates Ltd. The drilling and geophysical survey portion of this evaluation program was carried out between January 19, 1983 and March 3, 1983.

Drilling completed to date indicates that the No. 1 Vein System extends below the existing mine workings and further work is warranted to evaluate its gold potential in these areas. Further drilling and the tailings sampling program are scheduled to be conducted beginning in mid May 1983.

Property Location and Access

The St. Anthony Gold Mine property lies near the north end of Sturgeon Lake, approximately 130 miles northwest of the city of Thunder Bay, Ontario, and 13 miles south of the community of Savant Lake (Figure 1).

Access to the property is by paved Highway 599 north from Ignace or south from Savant Lake to within 1 mile of the northwest side of Sturgeon Lake. Numerous gravel roads provide access to Sturgeon Lake from Highway 599 and the property is then reached by boat. The Horizontal Bay road off Highway 599, 12 miles south of Savant Lake, leads to the Marie's Bay Lodge landing on Sturgeon Lake which provides



GENERAL LOCATION PLAN
OF THE ST. ANTHONY GOLD MINE PROPERTY, ONTARIO

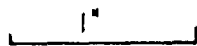


Figure 1

SCALE 1:1,600,000 or approximately 1" = 25 miles

for the most direct access to the property by boat. Boat rental is available at this Lodge. The property can also be reached by float or ski equipped aircraft from Ignace or Savant Lake.

An old winter road leading south from Savant Lake to the property is at present not useable, however, rehabilitation is possible if required.

Lodging can be arranged at Marie's Bay Lodge located approximately 1 mile southeast of the property and from which the property is accessible by foot along a bush road. The 1983 winter drilling program was operated out of this camp.

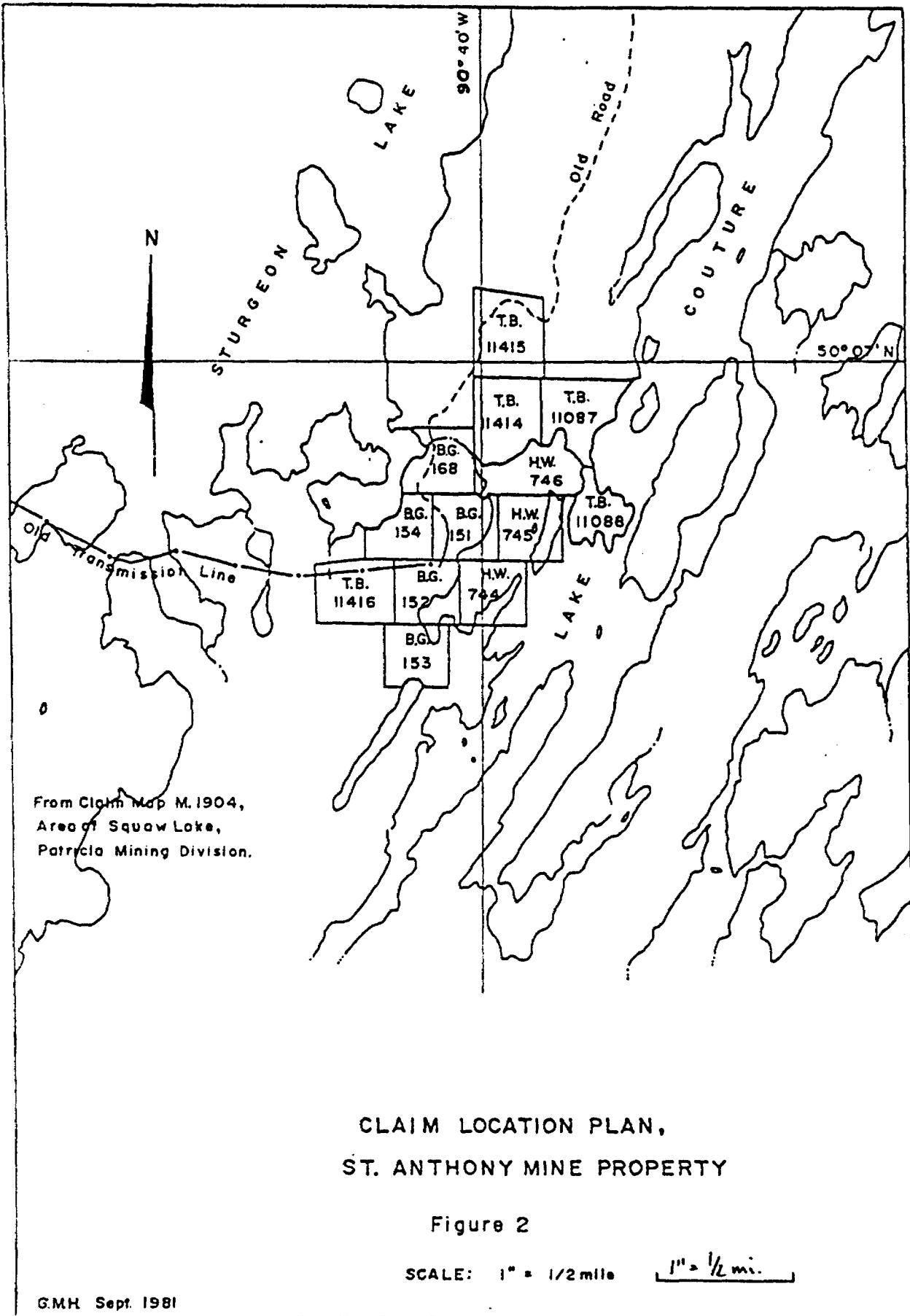
Land Position

The property consists of 13, contiguous, patented mining claims located in the Patricia Mining Division of the Thunder Bay Mining District of Ontario (Figure 2). The claims are registered in the name of Aubet Resources Inc. in the Land Titles Registry Office in Thunder Bay, Ontario, and are shown on Claim Map M1904 - Area of Squaw Lake. A list of the claims is presented in Appendix A to this report.

Geology

The St. Anthony Gold Mine property lies within the Superior Structural Province of the Precambrian Shield of Canada and all rocks in the area are of Precambrian age. Geologically the area is characterized by a northeasterly trending belt of mafic to intermediate volcanic rocks which wrap around the eastern margin of a large granitic-granodioritic batholith to the west. Major faulting has resulted in a well developed NNE-SSW trending pattern of lake development and roughly E-W faulting has offset stratigraphy at various locations.

On the St. Anthony Gold Mine property the batholith-volcanic contact zone is apparent. A mixture of basaltic and mafic volcanic rocks, granite, diorite and granitized volcanics are observed as well as numerous shear zones and faults. Silicification, sericitization and chloritization is abundant within this mixed, contact-zone rock package



and quartz veins and stringers are abundant within the shear zones. Late quartz porphyry dykes and mafic dykes cut the other rock units in the area.

A more detailed geological summary, as well as surface geological maps, of the property is given in the report of G.M. Hogg & Associates Ltd. presented in Appendix B to this report.

Previous Work

A review of all previous work on the property was prepared by G.M. Hogg & Associates. This report is presented in Appendix B and the reader is referred to it for details.

The St. Anthony Gold Mine produced a total of 63,310 ounces of gold and 16,341 ounces of silver from 332,720 tons of ore mined during the period 1905-1941. All production was from the No. 1 Vein System, above the 750 foot level over a strike length of approximately 1,000 feet. This production was from a vein system characterized by extensive quartz veining in the form of veins and stringers within both granitic and volcanic host rocks where a major shear zone intersected the granite-volcanic contact. Disseminations of pyrite, sphalerite, galena and chalcopryrite were associated with the quartz. Gold was apparently associated with pyrite in the lower levels of the mine while free gold was reported in the upper levels. No work has been conducted on the No. 1 Vein System since 1941.

The No. 2 Vein System was drill tested by 7 holes over a 250 foot strike length to a maximum depth of 100 feet in 1965. Quartz veining up to 6 feet in width containing local pyrite was intersected in all holes, however, only 2 narrow ore grade intersections were obtained and no further work was carried out.

Systematic exploration of other known shear zones on the property has not been carried out to date.

1983 Work Program

During the period January 19, 1983 to March 3, 1983 a 5 hole 4,487 foot diamond drilling program and both magnetic and V.L.F. electromagnetic surveys were completed on the St. Anthony Gold Mine property.

a. Geophysical Surveys

A total of 12 miles of grid lines were cut on the property at a spacing of 400 feet and the lines were picketed at 100 foot intervals. A 12 mile proton magnetic survey and a 10.5 mile V.L.F.- EM survey were carried out with readings taken at 50 foot stations along the lines. The In-Phase V.L.F.- EM data was filtered by the Fraser Filter Method.

A summary of the results of these surveys is presented in Tables 1 and 2 and Plate 1. Detailed survey maps are presented in Plates 7, 8 and 9. The geophysical surveys were conducted by Northwest Geophysics Ltd. and their report is attached as Appendix C to this report.

1) Magnetic Survey Results (Plate 9)

The background magnetic intensity is approximately 1,100 gammas on the Aubet property and the magnetic trend closely parallels both the strike of the lithologic units and the dominant N20-30°E shear direction.

Eight significant magnetic anomalies (A,C,D,E,F,G,H,I) have been identified on the property.

Anomaly A occupies a zone which corresponds with the existing mill and other buildings on the property and is interpreted as a cultural anomaly.

Anomaly C is a strong (3,609 gammas), N30°E striking anomaly located in an area underlain by mafic volcanic rocks. Anomaly C may represent the extension to the south of the No. 1 Vein System.

Anomaly D is a strong (3,214 gammas), NE striking anomaly, hosted in mafic volcanic rocks. The cause of the anomaly is unknown.

Table 1: Magnetic Survey Anomaly Data

Anomaly	Peak Magnitude (γ)	Width (ft)	Length (ft)	Location	Comments
A	8660	200	200	L0-1E	mine site
B	5800	100	?		possible dyke - not on Aubet property
C	3609	100	1200	20S-5E	possible No. 1 Vein system extension
D	3215	100	600	8N-7E	possible shear zone
E	2061	100	600	16N-8W	cause unknown
F	1723	200-500	3200	48N	major shear
F-1	1807	100-200	1800	↓ -(0-4E)	major shear
F-2	1354	100-200	1500+	↓ 24S	major shear
G	1675	100-300	2000	32N-25E	possible sulphide zone
H	1854	200-300	1400+	(12-20S)-4W	possible mineralized shear zone
I	1436	50-100	1600-1800	36N-8E	possible extension of D

Table 2: VLF-EM Fraser Filter Anomaly Data

Anomaly	Peak Magnitude	Width (ft)	Length (ft)	Location	Comments
A	413	100	one line	8S-10E	possible contact shear zone
B	190	200	one line	8S-6E	overburden effect - fault zone
C	147	100	800+	(16-24S)-6E	possible No.1 Vein system extension
D	119	100	one line	24N-9W	overburden effect
E	108	250	800+	(12-20S)-(3-5W)	possible shear zone
F	103	200	1200+	32N-26E	possible bedrock conductor flanking magnetic anomaly
G	99	200	800+	36N-18E	possible shear zone
H	98	100	one line	0-2E	mine site - cultural
I	90	100-200	1600+	(8-20S)-(1E-1W)	possible mineralized shear zone
J	87	50-200	4000+	(8-48N)-(0-4E)	shear-fault zone
K	85	150	800+	32N-22E	overburden effect
L	80	150	800+	8N-10W	overburden effect
M	78	100	800+	0-3W	shear zone
N	75	100	800+	(20-32N)-32E	overburden effect

Anomaly E occurs only on L16N within granitic rocks just west of the granite-greenstone contact. The cause of this anomaly is unknown.

Anomaly F is a long, N30°E striking, weak magnetic anomaly which parallels the shear zone which hosts the No. 1 Vein System and which may represent its extension to the north and south on the property.

Anomaly G occurs parallel to and just west of a carbonate-rich rhyolite shear zone. The cause of this anomaly is unknown.

Anomaly H is located in mafic volcanic rocks to the west of the No. 2 Vein System. The cause of this anomaly is unknown.

Anomaly I strikes N30°E in mafic volcanic rocks located in the NE portion of the property. No cause for this anomaly is known. This anomaly appears to be on strike with Anomaly D and they both may represent a mineralized shear zone parallel to the east of the No. 1 Vein System shear zone.

2) VLF-EM Survey Results (Plates 7, 8 and 9)

Fourteen VLF conductors have been identified by the survey and these conductors are shown on the Fraser Filter contour map (Plate 8). The anomalies trend N20-30°E subparallel to the regional lithologic strike and the primary shear direction.

Anomaly A is a very strong, 1 line conductor which lies at the volcanic-granite contact. This is most likely caused by local shearing at the contact and a field examination is warranted.

Anomaly B is a strong 1 line conductor, lying under water south of the No. 1 Vein System. This conductor lies within a fault zone and, although it possibly represents the southward extension of the No. 1 Vein System, it is believed to be due to overburden effect in the bay.

Anomaly C is a strong conductor, with a coincident magnetic anomaly. This conductor may represent the southern extension of the No. 1 Vein System and as such it should be examined in the field prior to drilling. The VLF data indicates a dip to the west for this conductor.

Anomaly D is a 1 line conductor located in the river and has no magnetic correlation. Although most likely due to overburden, it should be examined in the field since it may lie within an E-W fault zone defined by the river.

Anomaly E is a moderate strength conductor with good magnetic correlation. A field examination is warranted as this conductor may represent a shear zone west of the No. 2 Vein System.

Anomaly F lies immediately west of a rhyolite shear zone identified by geologic mapping. A field examination is warranted to evaluate this rhyolite shear zone.

Anomaly G is a weak conductor which may reflect a shear zone in this area. A field examination is warranted.

Anomaly H is located in the area of the mine site and is interpreted to be caused by cultural material.

Anomaly I is a weak conductor which may coincide with the diorite zone to the north. The strongest part of this conductor lies in a swamp which defines an E-W trending fault zone. A field examination is warranted.

Anomaly J is a weak, long conductor which extends northward along strike from the No. 1 Vein System. This conductor may represent the northward extension of the shear zone which hosts the No. 1 Vein System and an I.P. survey is warranted to evaluate its gold potential.

Anomaly K is overlain by water and is interpreted to be caused by overburden.

Anomaly L lies in a swamp underlain by granite and is believed to be caused by overburden.

Anomaly M occupies a shear zone observed on surface. A field examination of this anomaly is warranted. This shear zone may extend southward toward Anomaly E.

Anomaly N lies along a narrow channel between 2 land masses and is interpreted to be due to overburden within a fault zone.

On the basis of the results of the geophysical surveys, follow-up work is warranted on magnetic anomalies C, D, E, F, G, H and I and on VLF-EM anomalies A, C, E, F, G, I, J and M. Magnetic and VLF-EM anomalies "C" are of immediate priority since it is probable that they represent the extension of the shear zone which hosts the No. 1 Vein System to the south of the old mine workings. Two drill holes are recommended to test this zone at shallow depth following surface examination to confirm the dip of the lithology in this area. Magnetic anomaly F and VLF-EM anomaly J warrant an I.P. geophysical investigation to identify drill targets for future testing. One of these anomalies is believed to represent the extension of the shear zone which hosts the No. 1 Vein System to the north of the existing mine workings. The completion of a 3 mile I.P. survey to cover these anomalies and extending from L8N to L44N will allow the determination of which anomaly represents the No. 1 Vein System shear zone and whether or not new drill targets exist along this shear. The remaining anomalies should be evaluated by a geological field investigation to consist of mapping and sampling prior to any additional geophysical work or drilling.

b. Drilling Program

Five drill holes, for a total of 4,487 feet, were drilled to test for additional ore reserves in the unstoped areas of the St. Anthony Gold deposit and to evaluate the No. 2 Vein System located approximately 400 feet to the west of the past producing No. 1 Vein System.

The drill hole collar locations, bearings, dips and depths are shown in Table 3. The holes are shown projected to surface in Plate 1, in cross section in Plates 2 - 6, and their pierce points on a longitudinal section are shown on Figure 3. Diamond Drill Logs are presented in Appendix D and rock unit descriptions are presented in Appendix E.

1) Drill Holes SA83-1 and SA83-2

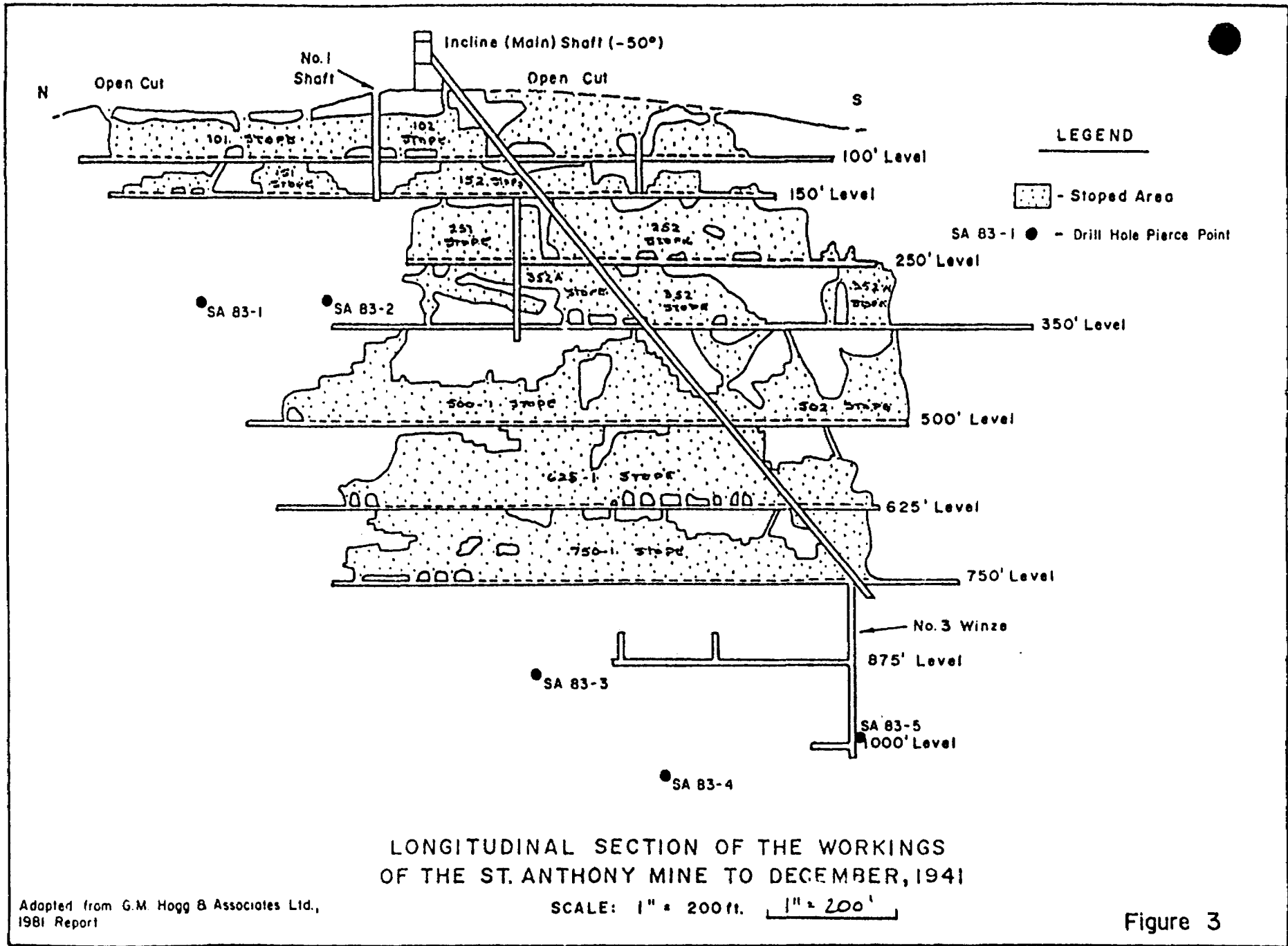
Drill holes SA83-1 and SA83-2 were drilled to evaluate an unstoped area between the 150 and 500 foot level below the 101 and 151 stopes north of the No. 1 shaft (Figure 3).

Hole SA83-1 was drilled in granite over its length of 416 feet, with the exception of a 39.1 foot section of highly sheared quartz porphyry intersected between 161.2 and 193.1 feet. Intense shearing (Shear Breccia), quartz lacing, and prominent yellow-green alteration characterize the granite adjacent to the quartz porphyry and in narrow zones from 270.9 - 277.0 feet, 348.0 - 353.0 feet and 385.0 - 390.0 feet. The alteration is characterized by sericite, minor chlorite and up to 50% narrow, irregular quartz stringers (quartz lacing). All the sheared and altered zones contain 1-3% disseminated pyrite as well as traces of sphalerite and galena. Anomalous gold values from 0.008 to 0.011 oz. Au/ton are associated with these zones. Within the sheared-altered zone from 385.0 - 390.0 feet, an 18 inch quartz vein contains several 1/8 inch massive pyrite-pyrrhotite seams. Within this zone the section from 387.2 - 388.9 feet assayed 0.43 oz. Au/ton. The zone from 385.0 - 390.0 feet is believed to represent the No. 1 Vein System.

Hole SA83-2 was drilled in granite over its length of 407 feet with the exception of a 37.3 foot section of sheared quartz porphyry intersected

Table 3: Drill Hole Data - SA83-1 to SA83-5

Hole No.	Collar Location	Bearing	Dip at Collar	Dip at Bottom	Total Length (feet)
SA83-1	2+92N, 0+06W	110°	-50°	-53°	416
SA83-2	0+93N, 0+27E	110°	-50°	-54°	407
SA83-3	3+30S, 3+57W	102°	-65°	-62°	1,108
SA83-4	5+52S, 3+70W	102°	-65°	-61°	1,248
SA83-5	6+49S, 3+46W	102°	-60°	-57°	1,307



between 254.7 and 292.0 feet. Intense shearing and alteration, similar to that encountered in SA83-1, characterizes the granite adjacent to the quartz porphyry and was encountered in several other 10 foot sections. No distinct quartz veins were intersected, however, two zones characterized by up to 50% narrow irregular quartz stringers (quartz lacing) with up to 3% disseminated pyrite, occur from 355 - 365 feet and 380 - 390 feet. The No. 1 Vein System is believed to correspond with the section from 380 - 390 feet where assays of 0.035 oz. Au/ton over 3.3 feet from 383.2 - 386.5 feet were obtained. Anomalous gold values ranging from 0.010 to 0.013 oz. Au/ton were obtained from most other shear zones containing minor pyrite.

2) Drill Holes SA83-3, SA83-4 and SA83-5

Drill holes SA83-3, SA83-4 and SA83-5 were drilled to test for the down dip extension of the No. 1 Vein System below the 750 foot level and to test the No. 2 Vein System at a depth between 250 and 400 feet below surface. (Plate 1, Figure 3).

Hole SA83-3 was drilled in granite, greenstone, diorite and quartz porphyry to a depth of 1,108 feet. From 69.0 to 171.8 feet greenstone was cored consisting of mafic volcanics, minor granitic material and 2 narrow mafic dykes. A sheared quartz porphyry, identical to that in holes SA83-1 and SA83-2, was intersected from 283.5 to 295.3 feet. Mafic dykes were encountered from 297.5 - 301.8 and 347.5 - 357.0 feet and coarse-grained diorite was intersected between 357 and 715 feet. All other sections of hole SA83-3 were drilled in granite. Significant alteration zones with shear brecciation and abundant quartz lacing occur from 345 - 350 feet, 770 - 780 feet, 845 - 855 feet and 915 - 920 feet. These zones all contain 1 - 3% pyrite and pyrrhotite, traces of sphalerite and galena, as well as anomalous gold values ranging from 0.008 to 0.080 oz. Au/ton. The higher gold values are associated with those sections containing sphalerite and/or galena. Two major quartz vein zones were encountered from 924.5 - 969.4 feet and 1,005.0 - 1,017.8 feet and are believed to represent the No. 1 Vein System which extends from 918 to 1,020 feet. Gold assays of 0.37 oz. Au/ton over 2.0 feet from 951.8 - 953.8 and 0.14 oz. Au/ton over 2.1 feet from 1,012.5 to

1,014.6 were obtained from massive quartz veins containing large 3 - 10 cm pyrite cubes within the No. 1 Vein System. The No. 2 Vein System is believed to have been intersected between 460 and 540 feet. This zone is characterized by major shearing. No gold values of economic interest were encountered in this zone.

Hole SA83-4 was drilled in altered granite over almost its entire length of 1,248 feet. Mafic dykes were encountered from 19 - 21 and 23.0 - 25.7 feet and a narrow section of highly sheared (gneissic) mafic volcanic was cored from 376.3 - 383.5 feet. A quartz porphyry was intersected from 376.3 - 383.5 feet. The altered granite is buff to pink above 760 feet and becomes a darker green-gray below this depth. Major alteration and shear zones are present from 380 - 400, 510 - 530, 600 - 670, 750 - 775, 925 - 965 and 1,110 - 1,180 feet. Within the zone from 1,110 - 1,180 a zone of massive quartz veins occurs from 1,130 - 1,150 feet. Within the sheared and altered zones are patches of pink potassium feldspar alteration, locally heavy chlorite and pyrite on slip surfaces between 750 and 1,200 feet. Gold values ranging from 0.010 - 0.079 oz. Au/ton were encountered throughout the hole. These gold values are associated with quartz lacing, minor pyrite and pyrrhotite as well as traces of sphalerite and galena. The higher gold values coincide with higher pyrite content, the presence of sphalerite, and/or pink potassium feldspar alteration. Gold assays of 0.035 oz. Au/ton over 1.6 feet from 1,143.7 - 1,145.3 in a 9 inch quartz vein and 0.049 oz. Au/ton over 4.5 feet from 1,170.9 - 1,175.4 feet in a quartz laced zone with 3% pyrite and pyrrhotite are within what is believed to be the No. 1 Vein System extending from 1,116 to 1,176 feet. Gold assays of 0.16 oz. Au/ton over 1.3 feet from 512.8 - 514.1 feet and 0.50 oz. Au/ton over 5.3 feet from 612.1 - 617.4 feet were obtained from sheared and altered zones containing quartz veins and pink potassium feldspar alteration. The section from 612.1 - 617.4 feet is believed to be contained within the No. 2 Vein System.

Hole SA83-5 was drilled in mafic volcanics and altered granite for most of its length of 1,307 feet. From bedrock to 515.1 feet, the hole cored mafic volcanics with the exception of from 138 - 142 feet where a mafic dyke was intersected and from 414 - 417 feet where a quartz porphyry was

cored. Granite was encountered from 515.1 feet to the bottom of the hole. The top 200 feet of the granite is a buff to grey colour which grades into a darker green-grey granite below. Blue-green chloritic mud is abundant on shear slips in the lower portion of the hole. Major shear and alteration zones occur from 370 - 380, 480 - 520, 610 - 675, 770 - 810, 965 - 975, 1,070 - 1,200 feet. No economically significant gold values were encountered, however, anomalous values ranging from 0.010 to 0.088 oz. Au/ton are present throughout the hole. A chloritized shear breccia zone from 965 - 975 feet contains gold values of 0.088 oz. Au/ton over 3.8 feet from 968.5 - 972.3 and may represent the zone called the "Diorite Zone" at surface. The No. 1 Vein is believed to be represented from 1,076 to 1,200 feet, however, no gold values of economic interest were encountered in this zone. The No. 2 Vein System was intersected from 610 - 675 feet and gold values of 0.056 oz. Au/ton over 3.1 feet from 665.1 to 668.2 feet associated with sulphides in quartz veins is of significance.

c. Mineralization

No visible gold was observed in any of the drill holes completed in this program. The principal sulphides observed were pyrite and pyrrhotite. Trace amounts of sphalerite, galena and chalcopryrite were identified.

Pyrite occurs in two modes; as disseminated, euhedral cubes throughout the core and concentrated up to 5% where alteration and shearing are strong, and as seams and blotches associated with pyrrhotite in bull quartz veins and in areas of heavy quartz lacing.

Pyrrhotite occurs as seams and blotches associated with pyrite in bull quartz veins and in areas of heavy quartz lacing. Pyrrhotite does not appear in holes SA83-1 and SA83-2 and no mention of pyrrhotite was made in previous reports on the property. The pyrrhotite appears to be restricted to the lower portions of the No. 1 Vein System.

Sphalerite, galena and chalcopryrite occur in insignificant quantities as relates to the zinc, lead and copper potential of the property.

Sphalerite occurs locally as crystal aggregates associated with bull quartz veins. Both galena and chalcopyrite were rarely seen and no significance can be attached to their associations with blotches of pyrite and pyrrhotite.

Gold was the only element assayed for in this program. In view of the low silver concentrations reported from past mining operations and the sparsity of galena and sphalerite, it was decided to assay the pulps from any interesting gold values for their silver content.

The gold values of interest from this drill program are presented in Table 4 and assay results from the 484 samples are presented in Appendix F. Based on the assay results and their relationship to lithology, additional sampling as outlined in Table 5 should be carried out to insure that no gold mineralization of interest has been overlooked. All significant gold values are associated with seams and blotches of pyrite and pyrrhotite in bull quartz veins and areas of heavy quartz lacing. No gold values of economic interest were obtained from altered and sheared zones containing disseminated pyrite.

d. Discussion of Results

The 1983 diamond drilling program was conducted with the objective of testing for the continuation of the No. 1 Vein System below those areas stoped during previous mining operations and to evaluate the ore making potential of the No. 2 Vein System.

All 5 drill holes intersected the No. 1 Vein System and confirm the presence of this system both to the north of and below the old mine workings. Drill holes SA83-1 and SA83-2 evaluated the No. 1 Vein System at a depth of approximately 350 feet and directly below shallow, wide stopes reported to have contained substantial free gold. No wide zones of quartz vein material were intersected in this drilling, however, zones of heavy quartz lacing were encountered. Drill hole SA83-1 did intersect a 1.5 foot quartz vein within the No. 1 Vein System and, as this hole was drilled across the area where there is an apparent en echelon vein pattern at surface (see Plate 1 and Map No. 2 in Hogg's report), this may indicate a new zone of heavy quartz veining

Table 4: Mineralized Zones of Interest in the
No. 1 and No. 2 Vein Systems

Drill Hole	No. 1 Vein System			No. 2 Vein System		
	Au (oz/ton)	Length (ft)	Footage	Au (oz/ton)	Length (ft)	Footage
SA83-1	0.430	1.7	387.2-388.9			
SA83-2	0.035	3.3	383.2-386.5			
SA83-3	0.370	2.0	951.8-953.8			
	0.140	2.1	1012.5-1014.6			
SA83-4	0.035	1.6	1143.7-1145.3	0.160	1.3	512.8-514.1
	0.049	4.5	1170.9-1175.4	0.500	5.3	612.1-617.4
SA83-5	0.088	3.8	968.5-972.3	0.056	3.1	665.1-668.2
	0.032	5.0	1192.8-1198.0			

Table 5: Additional Core Sampling and Assaying

Drill Hole	Sample Interval (feet)	Assay For
SA-83-2	88.9 - 101.5	Au
	102.7 - 108.5	Au
SA-83-3	830.3 - 846.8	Au
	910.6 - 915.6	Au
	919.0 - 924.1	Au
SA-83-4	184.9 - 188.0	Au
	190.0 - 198.5	Au
	214.7 - 216.5	Au
	222.0 - 225.9	Au
	384.4 - 388.0	Au
	394.5 - 400.0	Au
	501.3 - 512.8	Au
	514.1 - 524.8	Au
	526.8 - 535.0	Au
	617.4 - 625.7	Au
	628.4 - 645.5	Au
	672.0 - 677.5	Au
	680.3 - 687.0	Au
	750.0 - 755.2	Au
	764.6 - 768.8	Au
	894.5 - 898.0	Au
	926.0 - 928.0	Au
929.0 - 939.5	Au	
1107.6 - 1113.5	Au	
1116.6 - 1122.7	Au	
1166.0 - 1170.9	Au	
SA-83-5	368.0 - 373.6	Au
	377.0 - 382.0	Au
	730.3 - 747.0	Au
	775.4 - 780.1	Au
	789.3 - 793.0	Au
	800.7 - 815.1	Au
	1078.4 - 1081.3	Au
	1105.3 - 1110.0	Au
	1131.0 - 1136.2	Au
	1139.5 - 1147.0	Au
	1151.0 - 1157.8	Au
	1163.8 - 1169.6	Au
	1189.1 - 1192.8	Au
1198.0 - 1202.8	Au	

coming in to the north of hole SA83-1. Drilling to evaluate this possibility is warranted. Drill hole SA83-2 was disappointing in that sulphide bearing major quartz veins were not intersected as expected. This is likely due to the pinching out of the No. 1 Vein System in this area, however, it remains possible that a narrow gap in the No. 1 Vein System was intersected.

Drill holes SA83-3, SA83-4 and SA83-5 intersected the No. 1 Vein System below the 700 foot level. Major quartz veining, as described in reports of previous mining, was encountered only in hole SA83-3. The presence of narrow ore grade gold values associated with sulphides in quartz veins confirms the presence of the No. 1 Vein System at depth. The presence of strong alteration and quartz lacing in holes SA83-4 and SA83-5 indicates that the No. 1 Vein System is more diffuse in this area and suggests that this Vein System may be characterized by pinching and swelling quartz veins which locally become zones of quartz lacing. The presence of strong quartz veining in holes SA83-3 suggests that a zone of increased veining may be coming in to the north of hole SA83-3 and a further drill test of the No. 1 Vein System in this area is warranted.

Of critical importance to the understanding of the No. 1 Vein System is the knowledge of the relationship of the ore grade material to the lithology. Unfortunately the No. 1 Vein System dips to the west and the lithologic dips are to the east. Necessarily, all drilling to date has been down the lithological dip to properly evaluate the mineralization. It appears, however, that the ore grade mineralization is spatially related to the volcanic-granite contact and it is our view that the location of this contact is critical. If this spatial relationship is valid, then, once the volcanic-granite contact is located, exploration for new ore shoots where the major shear zone (which hosts the No. 1 Vein System) intersects the contact can be conducted. Drilling from east to west across the lithologic dip and down the vein dip must be done to acquire an understanding of the lithologic relationships.

The No. 2 Vein System was intersected in drill holes SA83-3, SA83-4 and SA83-5. This vein system correlated well from hole to hole and a

subvertical dip is indicated. Although only the 5.3 foot intersection grading 0.50 oz. Au/ton in hole SA83-4 is of clear economic significance, the presence of the No. 2 Vein System over a strike length of in excess of 600 feet, containing altered, sulphide -rich, quartz veined material with anomalous gold values indicates that further drilling is warranted. In addition narrow, ore grade gold values have been reported from 2 of 7 holes drilled in 1965 to test the No. 2 Vein System. The exact location of each hole is unknown, however, they are known to have been drilled in the area of drill holes SA83-4 and SA83-5. The volcanic-granite contact occurs at surface in this area and the location of this contact at depth is critical. Drill testing of the No. 2 Vein System and for lithologic information is warranted.

The geophysical surveys completed this winter have identified numerous anomalies which warrant field investigation. Magnetic anomaly C and VLF-EM anomaly C are coincident and believed to represent the extension of the No. 1 Vein System to the south of the old mine workings. Drilling should be carried out to evaluate the ore making potential of this zone. Magnetic anomaly F and VLF-EM anomaly J are long anomalies extending northward from the No. 1 Vein System. At this time, it is not known which of these anomalies represents the No. 1 Vein System and further geophysical surveys should be carried out to define drill targets. All the remaining anomalies of possible economic significance should be examined in the field prior to conducting any further geophysical surveys or diamond drill programs.

The 1983 work program results indicate that the No. 1 Vein System extends below the old mine workings. No ore grade gold assays over mineable widths were encountered, however, the odds of hitting the high grade zones, which made the St. Anthony Mine economically viable, in just 5 widely spaced holes are long, and the failure to have done so should not be viewed as highly discouraging. The intersection of ore grade material over mineable widths in one of these holes which tested the No. 2 Vein System is very encouraging, especially in view of previous results reported by Holbrooke in 1965. The geophysical survey

results have enhanced the property by defining many new targets for exploration in previously untested areas of the property. The potential for outlining a gold ore deposit on this property, remains high and a systematic exploration effort should be continued.

Conclusions:

On the basis of the work completed to date, the following conclusions have been drawn:

1. The No. 1 Vein System, extends below the old mine workings and is characterized by a series of en-echelon veins with zones of quartz lacing in between.
2. The absence of ore grade mineralization over mineable widths in the recent drill testing of the No. 1 Vein does not rule out the existence of an economic gold deposit below the old mine workings since 3 drill holes over a strike length in excess of 400 feet cannot be expected to accomplish more than confirm the presence or absence of the mineralized structure.
3. The gold ore shoots of the No. 1 Vein System appear to be spatially, if not genetically, related to the granite-volcanic contact where it is intersected by the major shear zone which hosts the No. 1 Vein System.
4. Further drill testing of the No. 1 Vein System is warranted to evaluate its ore making potential. Specific efforts should be made to locate the volcanic-granite contact where it is cut by the major shear zone at depth.
5. The No. 2 Vein System occurs over a drill indicated strike length in excess of 600 feet and to a depth of at least 350 feet. The identification of ore grade gold mineralization over mineable widths in 1 out of 3 drill holes which tested this zone in 1983 and gold intersections of economic interest in 2 out of 7 holes drilled in 1965 indicate that the No. 2 Vein System has the potential to host an economic gold deposit.
6. The location of economic grade gold mineralization in the No. 2 Vein System spatially associated with the granite-volcanic

contact where it is cut by the No. 2 Vein system shear zone indicates that the location of this contact at depth must be determined.

7. Geophysical surveys have identified the probable extension of the No. 1 Vein System both to the north and to the south of the old mine workings. These anomalous zones warrant systematic evaluation.
8. Geophysical surveys have identified 6 magnetic and 7 electromagnetic anomalies which warrant field examinations to determine their cause.
9. The St. Anthony Gold property has an excellent chance of hosting an economic gold deposit and a substantial exploration effort is warranted to evaluate this potential.

Recommendations:

On the basis of the work completed to date, the following recommendations are made:

1. Conduct a geological field investigation of magnetic anomalies D, E, F, G, H, I and VLF-EM anomalies A, E, F, G, I, J, M (Plate 1) to determine their cause where possible. This work will involve mapping, sampling and assaying.
2. Conduct a 3 mile I.P. Survey to evaluate magnetic anomaly F and VLF-EM anomaly J. The purpose of this work is to identify and locate the extension of the shear zone which hosts the No. 1 Vein System from L8N to L44N and to identify drill targets within this zone. This work must be done following freeze-up next winter since approximately 1/3 of the survey area lies under the lake.
3. Drill two holes (SA83-9, SA83-10; Plate 1; Table 6) totalling 800 feet to test geophysical anomalies "C" (Plate 1) for gold mineralization. This drilling should follow a geological examination to determine the dip of the lithology and structures.
4. Drill two holes (SA83-6, SA83-7; Plate 1; Table 6) totalling 1,700 feet to test the No. 2 Vein System 50 - 100 feet above and below the No. 2 Vein intersection of drill hole SA83-4. These holes should be drilled from East to West in order to drill across the lithologic dip so that a geological picture of the relationship of mineralization to lithology can be determined.
5. Drill one hole (SA83-8; Plate 1; Table 6) totalling 1,000 feet to further evaluate the No. 1 Vein System to the north of drill hole SA83-3 and at the same level.

Table 6: Proposed Diamond Drill Holes

Hole #	Location	Dip	Bearing	Depth (ft)	Target
SA-83-6	3+65S-2+85E	-60°	282°	900	No. 2 Vein
SA-83-7	3+65S-2+85E	-45°	282°	800	No. 2 Vein
SA-83-8	2+00S-3+50W	-65°	102°	1000	No. 1 and No. 2 Vein
SA-83-9	20+00S-3+50E	-45°	120°	400	VLF "C"
SA-83-10	24+00S-3+00E	-45°	120°	400	VLF "C"
				<hr/> 3,500	

Table 7: Cost Estimate for the Recommended Exploration Program

1. Drilling 3,500 feet @ \$25	\$97,500
2. Geophysics 3 miles I.P. @ \$1,200	\$ 3,600
3. Geology	\$ 5,000
4. Assays 500 samples @ \$10	\$ 5,000
5. Travel and Expenses	\$ 5,000
6. Reports	\$ 4,000
7. Contingency (10%)	<u>\$11,010</u>
Total	<u><u>\$121,110</u></u>
Say	\$122,000

6. Defer further evaluation of the No. 1 Vein System to the north of and below drill holes SA83-1 and SA83-2 until the geophysical surveys recommended in 2. above have been completed and evaluated.
7. Conduct this program in conjunction with the tailings program scheduled for May, 1983.
8. Conduct additional sampling and assaying of core from 1983 winter drill program as listed in Table 5 of this report.
9. Provide \$122,000.00 to conduct this program. Table 7 presents an estimated breakdown of the costs to be incurred for these purposes.



J. B. Hinzer



J. W. Gill

APPENDICIES

APPENDIX A

St. Anthony Gold Mine Property

Claim Listing

Appendix A:

St. Anthony Gold Mine Property
Claim Listing

Patented Claim Number	Parcel Number	Registered Owner
B.G. 151	2307	Aubet Resources Inc.
B.G. 152	2307	Aubet Resources Inc.
B.G. 153	2307	Aubet Resources Inc.
B.G. 154	2307	Aubet Resources Inc.
B.G. 168	692	Aubet Resources Inc.
H.W. 744	7316	Aubet Resources Inc.
H.W. 745	7316	Aubet Resources Inc.
H.W. 746	7316	Aubet Resources Inc.
T.B. 11087	3414	Aubet Resources Inc.
T.B. 11088	3413	Aubet Resources Inc.
T.B. 11414	3417	Aubet Resources Inc.
T.B. 11415	3418	Aubet Resources Inc.
T.B. 11416	3419	Aubet Resources Inc.

APPENDIX B

A Report on the St. Anthony Mine Property
of Aubet Resources Inc., Sturgeon Lake
Area, Ontario

by

G.M. Hogg & Associates Ltd.

September 22, 1981

A REPORT ON THE ST. ANTHONY MINE
PROPERTY OF AUBET RESOURCES INC.,
STURGEON LAKE AREA, ONTARIO.

September 22, 1981

G.M. Hogg & Associates Ltd.
28 Thompson Avenue,
Toronto, Ontario M8Z 3T3

This report may not be reproduced, in whole or in part, without
the written permission of G.M. Hogg & Associates Ltd.

TABLE OF CONTENTS

	<u>Page No.</u>
SUMMARY.....	(i)
INTRODUCTION.....	1
PROPERTY LOCATION, ACCESS.....	2
LAND TENURE, OWNERSHIP.....	3
HISTORY OF PROPERTY.....	4
GENERAL GEOLOGY.....	6
ECONOMIC GEOLOGY.....	8
GENERAL CONSIDERATIONS.....	8
THE NO. 1 VEIN SYSTEM.....	9
THE NO. 2 VEIN SYSTEM.....	10
OTHER PROSPECTS.....	11
MINING OPERATIONS, 1905-41.....	12
MILLING OPERATIONS, 1905-41.....	13
GENERAL OBSERVATIONS.....	13
TAILINGS AREA.....	14
INTERPRETIVE CONSIDERATIONS.....	15
EVALUATION REQUIREMENTS.....	17
GENERAL COMMENTS.....	17
THE EVALUATION PROGRAM.....	18
COST ESTIMATES.....	19
CONCLUSIONS.....	21
RECOMMENDATIONS.....	23
CERTIFICATE OF QUALIFICATION.....	24

FIGURES, PLANS, TABLES

	<u>Following Page</u>
Figure 1 - General Location Plan.....	2
Figure 2 - Claim Location Plan.....	3
Figure 3 - Regional Geological Plan.....	6
Figure 4 - Longitudinal Section of Mine.....	9
Figure 5 - Stamp Mill Tailings Area.....	14
Table I - Mine Production Record.....	4
Map No.1 - Property Geological Plan (1"=400')..	in pocket
Map No.2 - Geology of Mine Area (1"=50').....	in pocket
Map No.3 - Isometric Projection of Mined Area..	in pocket

Table of Contents, Continued

APPENDICES

- Appendix I - Listing of Sources of Information Available on the St. Anthony Mine Property.
- Appendix II - Extract From Ont. Bur. Mines Annual Report, Vol. 20, Pt.1, 1911. The Sturgeon Lake Gold Field. E.S. Moore.
- Appendix III - Extract From Ont. Dept. of Mines Annual Report, Vol. 50, Pt.1, 1941. Mines of Ontario in 1940, W.O. Tower.
- Appendix IV - Report on the St. Anthony Gold Mine, Sturgeon Lake, Ontario. W.W. Beaton, 1980.

SUMMARY

The St. Anthony property consists of 13 contiguous, patented mining claims situated in the northern part of the Sturgeon Lake area of Northwestern Ontario. The lands are held by Aubet Resources Inc. This report on the property has been prepared by G.M. Hogg, P.Eng., at the request of this Corporation.

The St. Anthony gold deposit, located in the southwestern part of the claim area, has been mined intermittently over the period 1905 to 1941. The total recorded production is 332,720 tons of ore, from which 63,310 ounces of gold and 16,341 ounces of silver have been recovered.

All production has come from the structure known as the No. 1 Vein system, which has been mined over a length of approximately 1000 feet to a depth of 750 feet. This vein system contains extensive quartz veining with associated disseminations of pyrite, chalcopyrite, sphalerite and galena. Substantial amounts of gold and silver are present, in the ratio of 4 Au : 1 Ag. Widths of 6 to 25 feet have been mined, consisting of quartz veins and/or a series of quartz stringers in greenstone or granite. The vein system assumes a general strike of N 20° E, and a dip of -73° W.

To 1930 all mining took place above the 150' Level, and the ore was processed in a stamp-amalgam mill. About 37,832 tons of ore were produced and treated over the 1905-1930 period, at an estimated mine grade of 0.42 oz.Au/ton. Mill recovery during this period was from 50 to 60 percent of the contained gold.

In 1934 a cyanide-leach mill facility was constructed, and it operated continuously until mine closure in late 1941. From 1934 to 1941 mine production totalled 294,888 tons at an estimated grade of 0.20 oz.Au/ton. Recovery in the cyanide-leach plant was approximately 95 percent of the contained gold. Mining was carried out from the 750' Level to surface during this operating period. During the late 1930's a winze was sunk to the 1000' Level, but no production was reported from below the 750' Level.

It is believed that mine closure at the end of 1941 was primarily because of difficulties in obtaining manpower, supplies and equipment during the war years. As far as can be ascertained, there appears to be no significant decrease in tonnage and grade characteristics within the zone below the 750' Level. If conditions encountered above the 750' Level persist to depth, and there is no technical data available to support or negate this premise, it is possible that about 250,000 tons of ore grading in the 0.20+ oz.Au/ton range will exist in the mine to the 1000' Level. There is, in addition, no apparent reason that the ore system should not extend below a depth of 1000 feet.

Additional possibilities exist for significant gold occurrence within the property, notably within the No. 2 Vein system which lies about 400 feet west of the No. 1 system, and parallel to it.

A staged evaluation program is proposed for the St. Anthony property. The first stage should consist of exploratory and confirmatory work, estimated to cost in the order of \$ 282,000. This will provide for geophysical coverage of the mine area, and confirmatory drilling on the No. 1 Vein system. Also, a test program to locate the original stamp mill tailings area will be completed as part of this phase of the program. The stamp mill residue, if in existence, will constitute 35,000 to 40,000 tons of readily available material grading in the 0.18 oz.Au/ton range.

If encouragement is obtained from the confirmatory drilling on the No. 1 Vein system, a second stage of evaluation is recommended. This will entail the opening and rehabilitation of the No. 1 Vein workings, and the underground evaluation of the zone as to production potential. This phase of the program is estimated to cost in the order of \$ 750,000.

INTRODUCTION

This report on the St. Anthony Mine property has been prepared by G.M. Hogg, P. Eng., for Aubet Resources Inc. at the request of Dr. J.M. Gill. The St. Anthony property, situated in the north Sturgeon Lake area of Northwestern Ontario, produced approximately 332,000 tons of ore yielding 63,310 ounces of gold during the 1905-1941 period. Mining operations ceased in late 1941, during the war years, and no production has been recorded since that time.

The purpose of this report is to provide an independent assessment of the economic potential of the St. Anthony property, based on a review of all available data. Also, if appropriate, a program of exploration and evaluation will be recommended with a view to early production.

The writer is familiar with the area, having performed and supervised exploratory work in the region in the past. The property itself was visited relevant to this study on August 13, 1981.

Information on the St. Anthony property used in this study include that available in the files of the Ministry of Natural Resources of Ontario, some miscellaneous data on the St. Anthony operation dating from its production period, and a number of post-production period reports dealing mainly with exploratory activities and considerations on the property. These latter reports include those of G.L. Holbrooke (1964), I.C. Christopher (1973), and W.W. Beaton (1975, 1980).

Unfortunately the information available on the mine itself is not extensive, but is believed adequate for the purposes of this study. The various sources of information are listed in Appendix I to this report.

PROPERTY LOCATION, ACCESS

The St. Anthony Mine property of Aubet Resources lies near the north end of Sturgeon Lake in the District of Thunder Bay, Ontario (see Figure 1). It is located approximately 12 miles south of the village of Savant Lake which is situated on the main transcontinental line of the Canadian National Railway, and lies within the administrative area of the Patricia Mining Division.

The property is situated on a rather narrow land area lying between Sturgeon and Couture Lakes, and includes a portion of the west bay of Couture Lake. It is accessible from Savant Lake via a gravel road to the head of Sturgeon Lake, and boat to the property. Also, an old winter road extends south from Savant Lake to the property, a distance of about 15 miles. Both Sturgeon Lake and Couture Lake are suitable for float- or ski-equipped aircraft operation, and such aircraft may be chartered from Sioux Lookout or Ignace.

The property is well-wooded, and of moderate to low local relief. There is ample water available for any mining or milling requirements. During the latter operating years electric power was partially supplied to the property via a power line extending east from a hydro-electric installation on the Sturgeon River, a distance of 12 miles to the west. New power transmission facilities would be required for any future operation, however.

Several old buildings, including the headframes for the No. 1 and Incline shafts, are still standing on the property. These are in various states of disrepair, and new facilities would be required for mine operation. Interestingly, most of the old equipment remains on the property, having been left on site in entirety when operations were terminated in 1941.

LAND TENURE, OWNERSHIP

The property consists of thirteen contiguous, patented mining claims comprising an area of 520 acres, more or less (see Figure 2). The claims are registered in the Land Titles Registry Office, Thunder Bay, Ontario, and the records were examined by the writer on August 14, 1981. As of that date the status of title was as follows:

<u>Claim No.</u>	<u>Parcel No.</u>	<u>Registered Owner</u>
B.G. 151	2307	Can Con Enterprises and Explorations Ltd.
B.G. 152	2307	"
B.G. 153	2307	"
B.G. 154	2307	"
B.G. 168	692	"
H.W. 744	7316	"
H.W. 745	7316	"
H.W. 746	7316	"
T.B. 11087	3414	"
T.B. 11088	3413	"
T.B. 11414	3417	"
T.B. 11415	3418	"
T.B. 11416	3419	"

Note: All the above lands were shown subject to Caution 163677, registered by Leonard E. Wilson, October 7, 1980, whereby no dealings on the lands is to be made until notice has been served upon him.

Since the date of examination we have received notice that (1) the registered ownership has been changed from Can Con Enterprises and Explorations Ltd. to Aubet Resources Inc., and (2) that the noted Caution has been terminated. Accordingly, we are satisfied that property ownership is now held by Aubet Resources Inc. free of encumbrances, and that title is secure and as represented.

HISTORY OF PROPERTY

Gold was first discovered in the property area and the original claims staked in 1900. At this time the property was known as the Jack Lake or Anthony Reef prospect. The Jack Lake Gold Mining Company Ltd. was incorporated in 1901, assuming ownership of the claims. It was succeeded in 1904 by the St. Anthony Gold Mining Company Ltd., and the first production of significance was attained in 1905 under this corporation (see Table I).

During 1907 the property was optioned to Mr. J. Steele, and in 1910 to Mr. G. Glendinning. There was no notable production during this time, and it appears to have been essentially a period of reorganization. Ownership was assumed by Sturgeon Lake Development Company in early 1911, and later that same year by Northern Gold Reef Ltd. During the 1911-13 period approximately 18,500 tons of ore were mined and milled by the Northern Gold Reef group.

During the 1915-16 period, coinciding with the early first world war years, St. Anthony Development Company Ltd. (Kerr Lake Mining and Wettlaufer Lorrain-controlled) held an option on the property from Northern Gold Reef Ltd. In 1916 the Thunder Mining Company Ltd. assumed ownership, and attained modest production during 1917 and 1918. Through 1920 and 1921 the property was leased to Messrs. C.L. Campbell, C.P. Charlesbois and W.H. Fairburn, and in this period small additional production is reported. Later in 1921 St. Anthony Gold Mines Ltd. acquired the property, but no further production was recorded until 1929. Through 1929 and 1930 a total of 686 tons of ore were produced by this company, the last to be treated by the existing stamp mill facility.

It will be noted that through this early phase of operations a total of 37,832 tons of ore were treated, yielding 9,029 ounces of gold. All this production came from above the 150' Level, and was milled by stamp-amalgamation process or hand-cobbed. This tonnage equates roughly to that estimated to exist in the stamp mill tailings area by St. Anthony

Table I

PRODUCTION FROM THE ST. ANTHONY MINE, 1905-41.

(From the Ontario Department of Mines Mineral Deposit File)

Year	Gold Produced ozs.	Silver Produced ozs.	Ore Milled tons	Recoverable Grade oz. Au/ton	Operator
1905	1,787	-	5,500 *	0.33	St. Anthony Gold Mining Co. Ltd.
1906	1,220	-	5,800 *	0.21	"
1907	524	-	1,800 *	0.29	Optioned to Mr. J. Steele
1911	207	61	540 *	0.38	Sturgeon Lake Development Co.
1912	1,950	577	11,500 *	0.17	Northern Gold Reef Ltd.
1913	987	-	6,432 *	0.15	"
1917	94	26	627 * est.	0.15 est.	Thunder Mining Co. Ltd.
1918	1,460	263	3,603 *	0.41	"
1920	420	82	1,024 * est.	0.41 est.	Leased to C. Campbell, C. Charlesbois, and W. Fairburn
1921	243	59	320 *	0.76	"
1929	115	23	678 *	0.17	St. Anthony Gold Mines Ltd.
1930	22	7	8 *	2.75	"
1934	3,571	991	21,618	0.17	"
1935	8,584	1,958	44,550	0.19	"
1936	4,564	1,217	28,408	0.16	"
1937	4,442	1,766	17,896	0.25	"
1938	6,226	1,815	28,945	0.22	"
1939	8,052	2,120	23,792	0.34	"
1940	10,972	3,082	59,039	0.19	"
1941	7,870	2,294	70,640	0.11	"
Total	63,310	16,341	332,720	0.19	

* Hand Cobbed and/or Stamp Mill Production

Gold Mines Ltd. (circa 1930), at a grade of 0.18 oz.Au/ton. In reference to Table I the average recovered grade of ore milled to that time was 0.24 oz.Au/ton. Accordingly a recovery level of about 57 percent is indicated for the stamp-amalgamation milling process, and the actual grade of ore produced must have approximated 0.42 oz.Au/ton.

During the 1930 to 1934 period St. Anthony Gold Mines Ltd. developed the mine to the 750' Level through a new inclined shaft, and constructed a cyanide-leach mill with a rated capacity of 225 tons per day. Production was maintained through the 1934 to 1941 period at an estimated 95 percent recovery of gold on 294,888 tons of ore milled. This equates to an actual mine grade of 0.20 oz.Au/ton for the entire production period, or 0.22 oz.Au/ton if the 1941 production of 70,640 tons at a recovered grade of 0.11 oz.Au/ton is not included.

In the latter part of this period the No. 3 Winze was sunk from the 750' Level to a depth of 1000 feet. Some development was completed from this winze, but no mining appears to have been done. At the end of 1941 operations were terminated at the mine reportedly because of lack of manpower, supplies and equipment during the war years.

In the closing year of operation, 1941, the radically increased tonnage and lower grade of ore produced suggest a pre-closure salvage operation was being carried out. It may also indicate, of course, that the higher grade ores had simply been depleted. However, it would seem more reasonable to expect that manpower limitations forced decreased mining selectivity, pillar removal, etcetera, and certainly precluded any additional development. The fact that all operating equipment was left on site would also support the premise that additional reserves existed, and that the operators intended to resume production when conditions improved.

In 1944 the company name was changed from St. Anthony Gold Mines Ltd. to St. Anthony Mines Ltd., and in 1964 Con-Key Mines Ltd. acquired the property. A shallow drilling program was completed in 1965 under the direction of G.L. Holbrooke, P.Eng., for Con-Key Mines, centered on the No. 2 Vein

system and the "Diorite Zone". These areas were thought not previously mined, but the "Diorite Zone", constituting a south extension of the known ore system, probably had been to some extent. In any case, this program failed to provide sufficient encouragement to justify further work at this time.

By 1973 the property had been acquired by Can Con Enterprises and Explorations Ltd., and I.C. Christopher, P.Eng., prepared a report recommending further drilling on the property in that year. This program was not implemented, and the property has remained dormant to the present.

With renewed interest in gold, Can Con Enterprises and Explorations Ltd. commissioned a review of the property in 1980 by W.W. Beaton, P.Eng. Within the last few weeks Aubet Resources Inc. has acquired the property, and it is at their request that this evaluation has been undertaken.

GENERAL GEOLOGY

As shown in Figure 3, the St. Anthony property is situated within a belt of northerly-trending basic to intermediate volcanics, close to their contact with a batholithic granite mass to the west. Several gold prospects are known within this greenstone belt, extending in an arcuate configuration from the King Bay area to the southwest to the northerly end of Northeast Arm of Sturgeon Lake. All rocks in the area are of Precambrian age.

At the St. Anthony Mine location an elliptical mass, or stock, of granitic material extends east of the main granite-greenstone contact into the volcanics themselves. This stock is mainly composed of pink to gray medium-grained granite, but includes some quartz porphyry. The granite is often found laced with quartz veins and stringers, and normally becomes sericitic and greenish in color in such areas. The contact with the enclosing greenstones is irregular in detail, and "granitized" greenstone is present in the contact area.



LEGEND

- 6 Syenite, nepheline syenite, porphyritic syenite, quartz syenite, mafic syenite or diorite (possibly in part altered gabbroic rocks).
- 5 Undifferentiated granitic rocks.
 - 5a Biolite, and (or) hornblende-quartz-feldspar gneiss, augen gneiss, migmatite, granite gneiss, hybrid granite gneiss, amphibolite gneiss.
 - 5b Granite, granodiorite, quartz monzonite, quartz diorite, porphyritic granite and quartz monzonite, pegmatite, quartz porphyry, quartz-feldspar porphyry, feldspar porphyry.
- 4a Gabbro, metagabbro, meladiorite.
 - 4b Peridotite, serpentinite.
- 3a Conglomerate, arkose, greywacke, siltstone, argillite, phyllite, slate, and derived schists.
 - 3b Metasediments with some metavolcanics.
 - 3c Paragneiss, lit-par-lit gneiss, schist.

- FELSIC METAVOLCANICS
 - 2 Undifferentiated.
 - 2a Rhyolitic and dacitic tuff, agglomerate and flows.
 - 2b Tuff with some metasediments.
- MAFIC METAVOLCANICS
 - 1a Massive lava, pillow lava, tuff, agglomerate, amphibolite, and derived schists and gneisses.
 - 1b Metavolcanics with some metasediments.
- Fault.
- Lineament.
- Mineral occurrence.

**GEOLOGICAL PLAN
OF THE NORTH
STURGEON LAKE AREA**

FIGURE 3

Scale: 1" = 4 miles
1" = 4 mi

(From O.D.M. Map 2169)

The greenstone area of the St. Anthony property is composed of schistose basaltic to andesitic flows, some pyroclastics, dioritic sills, and interflow units of tuffaceous metasediments. The latter are siliceous in character, carbonated, and normally exhibit a well-developed schistosity. The greenstone assemblage is thus typical of the Keewatin-type basic volcanic terrain.

In reference to Map No. 1 (in pocket), as mapped by G.L. Holbrooke, P.Eng., the granitic stock underlies parts of claims B.G. 151, B.G. 152 and B.G. 154. It is approximately 2400 feet in length and 1200 feet in width, with quartz porphyry occurring along the east contact. The surrounding greenstone sequence exhibits a general N 20° E schistosity, and steep dips, normally to the east. Tuffaceous metasediments within the predominantly volcanic series have not been differentiated by Holbrooke, but are probably present over limited thicknesses in areas noted as "schistose" or "sheared" within the greenstone complex.

Two strong quartz vein systems are shown in Map No. 1, extending on a N 20° E strike from the greenstone area into the granite stock. These are designated the No. 1 and No. 2 Vein systems, and it is the No. 1 zone on which all mining has been done to date. Map No. 2 (in pocket), also originally prepared by G.L. Holbrooke, illustrates the geology of the central property area in greater detail. It will be noted that although a predominantly east dip is indicated for schistosity within the greenstone area, the No. 1 Vein system itself dips 70° to 75° west.

Major faulting has not been recognized in the property area, though shearing and fracturing on the N 20° E bearing is well-developed. A pervasive east-trending fracture system is also present. N.F. Trowell of the Ministry of Natural Resources of Ontario, who mapped in the area during 1972 and 1973 (O.G.S. Map 2420), suggests a north-trending fault exists along the No. 2 Vein system. It is also possible that an easterly-trending fault structure exists near the south end of claim B.G. 152, and that it offsets the No. 1 Vein system.

ECONOMIC GEOLOGYGENERAL CONSIDERATIONS:

All mining operations on the St. Anthony property have been carried out on the No. 1 Vein system. Accordingly, most observations on the character and distribution of ore derive from this zone. Other substantial mineralized zones include the No. 2 Vein system, and the "Diorite Zone", the latter probably forming the south extension of the No. 1 Vein system. A number of smaller showings also exist in the surrounding greenstone area.

Gold in the St. Anthony Mine occurs in white quartz veining within both granite and greenstone. It is accompanied by silver in the approximate ratio of 4 Au : 1 Ag. Normally minor carbonate and disseminations of pyrite, chalcopyrite, sphalerite and/or galena exist where significant gold values occur. Native gold, often in spectacular concentrations, was reportedly a frequent occurrence in the upper levels of the mine (E.S. Moore, 1911, Appendix II). This was likely a near-surface, fracture-controlled phenomenon, and it appears that with depth the gold became increasingly closely associated with pyrite. Thus, to effect satisfactory treatment of deeper ores, it became necessary for St. Anthony Gold Mines Ltd. to install the cyanide leach milling facility in the early 1930's.

Within the No. 1 Vein system the quartz veining in the greenstone area is multiple, exhibits sharp contacts, and appears localized in schistose, siliceous metasedimentary units intercalated with basaltic flow material. Within the granite the veining becomes less discrete, forming a stringer zone diminishing in frequency outward from a strong central vein. The granite is commonly sericitized and pyritic in the veined area, assuming a greenish color and often a schistose, greasy texture.

Mining widths of from six to twenty-five feet in both the greenstone and granite are reported, consisting of a single vein, a stringer zone,

or both. The wall rocks in both granite and greenstone areas are of reasonably good competence, causing no unusual difficulties in mining operations.

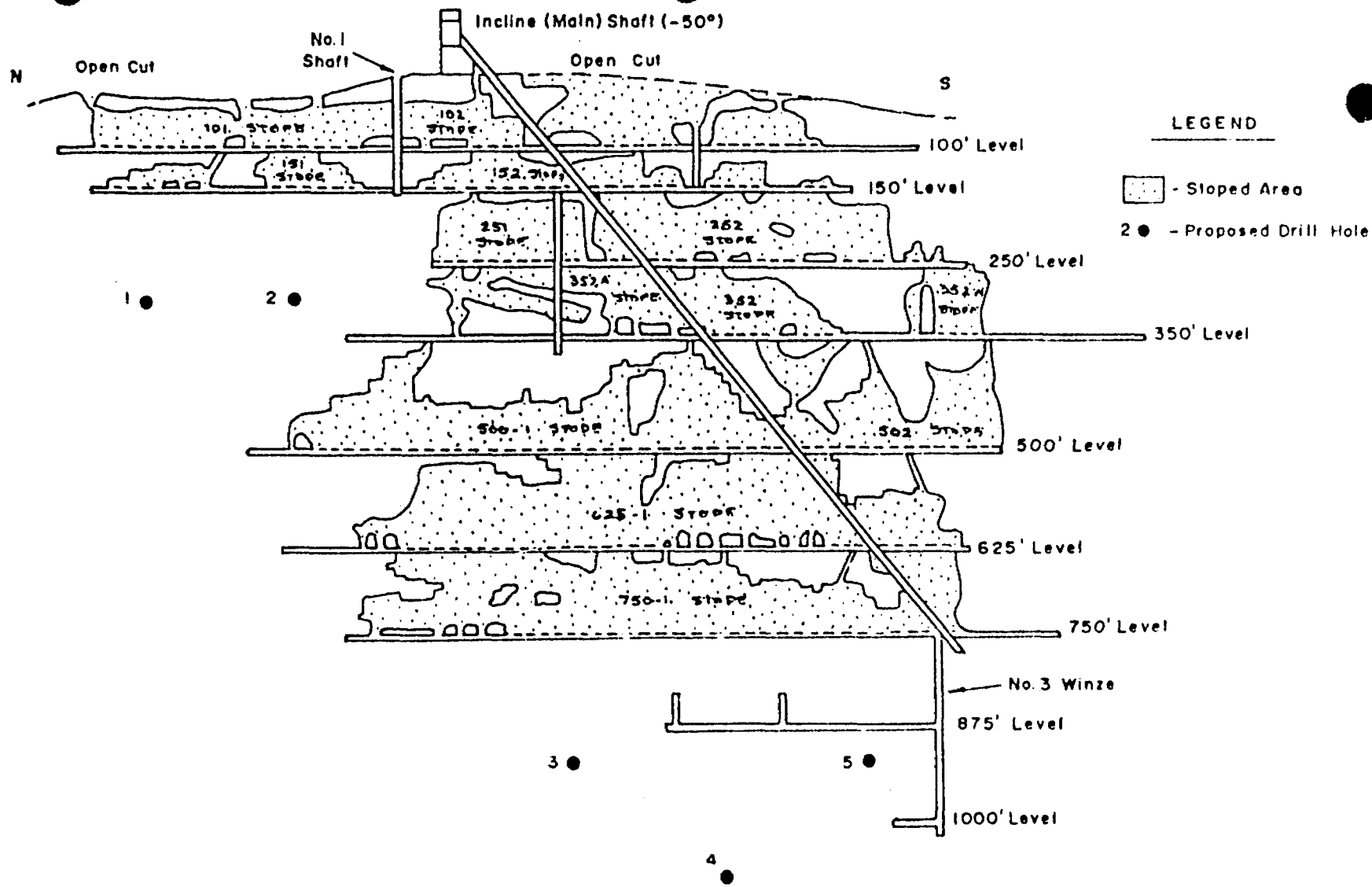
THE NO. 1 VEIN SYSTEM:

The No. 1 Vein system is shown in surface plan on Map No. 2 (in pocket), and in isometric projection on Map No. 3 (in pocket). Figure 4 illustrates the mined areas along the vein system in longitudinal section. Although limited information exists as to drift and stope locations, unfortunately no geological or assay data is available in the form of mine plans.

The No. 1 Vein system is approximately 1000 feet in length at surface, and was mined over a length of 800 feet at the 750' Level. The structure strikes approximately N 20° E, and dips 73°W. As shown on Map No. 2, the veining at surface commences in the greenstone area, extending northward about 400 feet to the granite contact area. It then follows the contact zone for about 200 feet, and extends into the granite for an additional 400 feet.

In the southern, or greenstone portion of the vein system the multiplicity of veining is indicated by the drift configuration shown in Map No. 3. Within the granite some irregularity also exists, as shown by the displacement of mining areas in the northern portion, and by the easterly orientation of the north open cut area. As previously noted, the veining carried ore grade gold values over widths of six to twenty-five feet, averaging in the order of twelve feet.

As described, the No. 1 Vein system carried considerable native gold in the upper levels, with a 57 percent recovery of gold in the stamp-amalgam milling process. Drift assays reported in an article in the Canadian Mining Journal of June 15, 1911, indicate a grade of 0.65 oz. Au/ton over a drift length of 200 feet on the 100' Level, in the vicinity of the No. 1 Shaft. Production records suggest a mine grade in the order of



G.M. HOGG & ASSOCIATES LTD.
 LONGITUDINAL SECTION OF THE WORKINGS
 OF THE ST. ANTHONY MINE TO DECEMBER, 1941

SCALE: 1" = 200 ft. 1" = 200ft

Figure 4

0.40+ oz.Au/ton was maintained in the upper levels.

Below the 150' Level the mine grade appears to be in the 0.20+ oz.Au/ton range, reflecting a lower native gold content as well as much less selectivity in mining. There is no indication of any radical decrease in grade or extent of mineralization with depth in the lower levels.

It is probable that the granite-greenstone contact locus plunges south, more or less at the angle of the inclined shaft (-50°). The reason for the termination of stoping areas in a vertical plane at the south end of the vein system (see Figure 4) is unclear. It is possible that an easterly trending fault, as shown in Map No. 1, offsets the system in this area. There is little geological evidence to support this premise, however.

THE NO. 2 VEIN SYSTEM:

The No.2 Vein system lies approximately 400 feet west of the No. 1 structure, and is parallel to it. The No. 2 system extends over an observed length of 700 feet, all within granite (see Map No. 2, in pocket), but is known to extend into the greenstone area to the south.

This system consists of quartz veins and stringers strongly developed over widths of at least 30 feet. Some shearing along the vein system is evident within the granite, but it is essentially similar in character to the northern portion of the No. 1 zone. The No. 2 Vein system strikes N 20° E, and dips vertically to steeply west where observed. Weak pyrite mineralization is associated with the veining.

As noted, N.F. Trowell of the Ministry of Natural Resources of Ontario mapped the area in 1972-73 (O.G.S. Map 2420), and interpreted a south-trending fault to occur along the No. 2 zone extending into the greenstone area. Movement along this postulated fault, if it exists, appears to be of a very low order of magnitude.

During 1965 Con Key Mines Ltd. carried out a limited drill test program on the No. 2 Vein system under the direction of G.L. Holbrooke. This drilling was centered approximately 500 feet southwest of the Incline Shaft, in the area of intersection of the vein system with the granite-greenstone contact. Seven holes were drilled, testing a 250 foot strike length to a maximum depth of 100 feet.

Quartz veining up to six feet in width with irregular, low pyrite mineralization was intersected in all holes, but only two assay values in the higher range were reported. These are recorded as 1.18 oz.Au/ton over 1.7 ft. in hole No. 2, and 0.38 oz.Au/ton over 1.2 ft. in hole No. 20 (25 feet below hole No. 2). No further drilling was done at this time, and there is no record of subsequent testing.

A random chip sample across the zone exposed in granite to the north of the drill test area was taken by the writer. "Average material" across a 30 foot width yielded an assay value of 0.006 oz.Au/ton, and 0.01 oz.Ag/ton.

OTHER PROSPECTS:

The "Diorite Zone", identified by G.L. Holbrooke in 1965, is located close to the west bay of Couture Lake, approximately 500 feet south of the Incline Shaft (see Map No. 2, in pocket). It lies 150 feet west of the south end of the No. 1 Vein structure, on the west side of a diorite sill. In all probability it forms part of the No. 1 Vein system. As shown in Map No. 3 (in pocket), the earlier operators drifted west from the south end of the 100' Level, and undoubtedly intersected the zone. It is uncertain if any ore was extracted from this location.

In 1965 Con Key Mines Ltd. drilled six shallow holes in this vicinity, testing a strike length of 250 feet. Silicified and pyritized basic volcanics were intersected, yielding values of up to 0.58 oz.Au/ton over a

core length of 2.0 feet. Only minor quartz veining was reported, and continuity of higher gold values was not established. As observed at surface the zone dips 65° E, and strikes N 30° E. A sample taken in the pit location by the writer, consisting of quartz and pyritic, carbonated schist, returned values of 0.27 oz.Au/ton, and 0.06 oz.Ag/ton.

Other areas of shearing and minor quartz veining are known within the property area, and some of these are indicated in Map No. 1 (in pocket). No record of any sampling results from these occurrences is available, and it is doubtful if any have been drill-tested.

MINING OPERATIONS, 1905-41

As has been previously noted, pre-1930 mining operations were carried out exclusively on the No. 1 Vein system to a maximum depth of 150 feet. Underground access was through the 150 foot No. 1 Shaft, and the north and south open cuts were established during this period. While mined tonnage was small during this early phase of operations (37,832 tons), the grade was excellent, being estimated at 0.42 oz.Au/ton mine average.

The Incline Shaft was sunk to the 750' Level at a -50° S angle during the early 1930's. From levels established at 250', 350', 500', 625' and 750' depths, mining of the deposit continued to late 1941. As shown in Table I, 294,888 tons of ore at a mine grade of 0.20 oz.Au/ton were produced during this second operating phase.

In the Ontario Department of Mines Annual Report for 1941 (Vol.51, Pt.I, pg.19C), it is stated that at the time of closure a reserve of 35,000 tons of ore remained. It is also noted that because of the low grade of the ore produced in 1941, operations could no longer be carried on at a profit.

In respect to grade, however, it appears that severe operating difficulties of the period forced the removal of all easily available mineralized material from developed workings above the 750' Level to provide mill feed. Much of this "ore", probably including many pillar areas, was undoubtedly

of very low grade. The milled production for this final operating year was a record 70,640 tons at an uncharacteristically low mine grade of 0.12 oz.Au/ton. This production, incidentally, included 45,338 tons at an unspecified grade from the old mining area above the 150' Level.

Concerning reserves, it will be noted in Figure 4 that mining on the No.1 Vein system was essentially continuous from the 750' Level to surface. It is unreasonable to expect such continuity to virtually disappear at the 750' Level, where a stoping length of 800 feet is indicated. Accordingly, it is suggested that the quoted closing reserve figure of 35,000 tons refers only to developed ore, and should not be interpreted as a statement of potential reserves below the 750' Level.

During the latter part of the operating period the No. 3 Winze was sunk from the 750' Level to the 1000' Level, and some exploratory drifting was done on the 875' Level. We have little information on the character of the material encountered here, but there is no indication that it was not equivalent in extent and grade to that mined at the 750' Level. There is, in any case, no record of mining having been carried out in this area.

MILLING OPERATIONS, 1905-41

GENERAL OBSERVATIONS:

The original milling facility on the St. Anthony property was a stamp mill with amalgamation tables. The actual date of installation is not known, but it was probably operational in 1905, the first year of substantial recorded production. In 1911 the facility was expanded to a ten stamp unit, reflected in the processing of 11,500 tons of ore in 1912. Stamp mill operation was continued sporadically until 1930, treating a total of 37,832 tons of ore for a recovery of 9029 ounces of gold. A 50 to 60 percent recovery of the contained gold in the ore processed is estimated.

In 1934 a 225 ton per day cyanide-leach plant was completed, and commenced operation. This unit remained in service until 1941, the year of closure.

A total of 294,888 tons of ore were processed in this unit for a recovery of 54,281 ounces of gold, and 15,243 ounces of silver. It is estimated that 95 percent of the contained gold was recovered from the ore processed during this period.

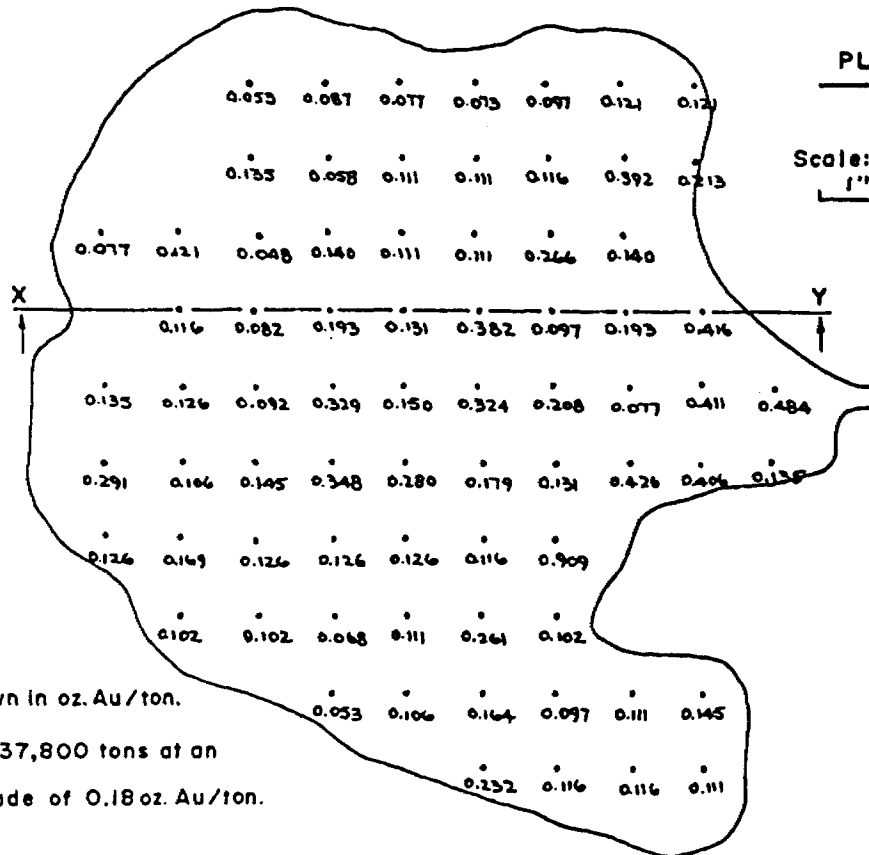
With mine closure the cyanide-leach mill was left on site, and some of the equipment remains in place to the present. The location of this mill, and the tailings disposal area, are shown on Maps No. 1 and No. 2 (in pocket). No trace remains of the earlier stamp mill, but photographs of the plant in the 1910-11 period show it to have been located at, or just to the south of, the site of the cyanide-leach mill.

TAILINGS AREA:

The cyanide-leach plant tailings appear to have been discharged to the north of the mill building, and allowed to pond over a large depression to the north and west. Again from photographs, the stamp mill tailings seem to have been deposited immediately west of the plant, in a location now forming part of the larger tailings disposal area.

It has been noted that the relatively coarse stamp mill residue must have approximated 37,800 tons of material grading in the 0.10 oz. Au/ton range. St. Anthony Gold Mines was aware of this remanent, and carried out a test program on the stamp mill tailings around 1930. The results of this program are shown in Figure 5, and it is on this data that the quoted grade of the tailings is established. W.W. Beaton also mentions these tailings in his report of 1980 (Appendix IV), having first carried out a study on them in 1926. It is possible that St. Anthony Gold Mines reclaimed and processed these tailings, but, if intact, this tailings deposit would contain approximately 6800 ounces of gold, and would be readily available for treatment.

The tailings area was examined by the writer, with special attention being paid to the small embayment area lying immediately west of the

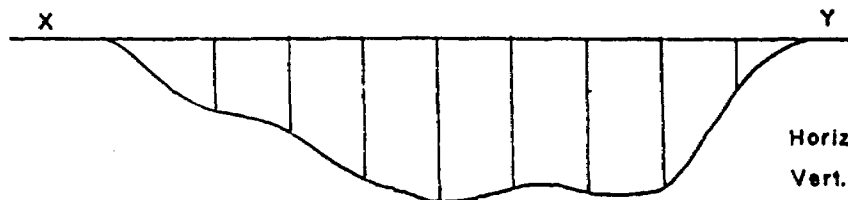


PLAN

Scale: 1" = 100 ft.
1" = 100'

Values shown in oz. Au/ton.
Estimated 37,800 tons at an
average grade of 0.18 oz. Au/ton.

SECTION



Horiz. Scale: 1" = 100 ft.
Vert. Scale: 1" = 10 ft.
1" = 100'

1" = 10'

G.M. HOGG & ASSOCIATES LTD.

ST. ANTHONY STAMP MILL TAILINGS AREA
(Circa 1930)

FIGURE 5

existing mill building. All exposed tailings were found to consist of a fine, sericitic sand, buff in color, and locally rusty. A surface sample taken in the embayment area returned values of 0.004 oz.Au/ton, and 0.01 oz.Ag/ton, which would be consistent with the values one would expect in the cyanide-leach tailings. No coarsely ground material which could be classified as possible stamp mill residue was noted in the area.

Accordingly, it is apparent that the stamp mill tailings are either covered with the finer cyanide-leach tailings, or have been already reclaimed and processed by St. Anthony Gold Mines. Considering the potential value of the stamp mill residue, however, a program designed to locate and evaluate it is certainly warranted.

INTERPRETIVE CONSIDERATIONS

Little information is available on the mine geology and gold distribution within the No. 1 Vein system. However, descriptions by earlier writers such as E.S. Moore (Appendix II), and personal observations strongly suggest that the deposit is of detrital origin, the gold and sulphides having been originally concentrated in channel or basinal configuration on an Archean paleosurface. Siliceous metasediments, often strongly tuffaceous and carbonate-rich, and intercalated with basic flow material, probably formed the primal host material. Later deformation and metamorphism within this basinal accumulation produced variable recrystallization and remobilization resulting in the form and configuration of the vein system we see today.

The role of the granite intrusive in the evolution of the St. Anthony deposit is interesting. It appears that a portion of the basinal deposit was absorbed into the granite as part of an intense but essentially non-disruptive recrystallization process. This gave rise to the diffuse quartz veining and pervasive sericitization within the granite, marking the northern part of the No. 1 Vein system.

The implications of this genetic theory are three-fold. First, that good continuity in the general sense may be expected within the No. 1 Vein system. The original basinal accumulation in this case being a relatively large and rich one. Second, stratigraphic duplication of a depositional locus is a common feature in such deposits, and the No. 2 Vein system may well be of similar origin. On the basis of minimal evaluation it appears less auriferous than the No. 1 system, but this condition may change along strike or with depth. Thirdly, the active paleosurface itself may be quite extensive. In this area, for example, it may extend in more or less continuous fashion into the King Bay area to the southwest.

Reference has been made to the decreasing frequency of native gold with depth in the No. 1 Vein system, and the possible adverse effect on deeper grade levels. This is based on the comments of earlier observers (E.S. Moore, 1911, Appendix II), and also on production records. While it is likely that near-surface enrichment of gold may be a factor of some significance, it will be noted that ore extraction from above the 150' Level is estimated at approximately 250 tons per vertical foot, and at about 490 tons per vertical foot below this level. The later operators were thus mining considerably greater tonnages of lower grade material at depth, reflecting the increased efficiency of the cyanide-leach mill. The apparent grade decrease with depth is therefore more an operational feature than a physical characteristic of the deposit.

In regard to the more immediate prospects for ore development on the St. Anthony property, the possibilities for extension of the No. 1 Vein system below the 750' Level, and to the north below the 150' Level, are considered excellent (see Figure 4, Map No. 3). Simple projection from stoped areas suggests that as much as 250,000 tons of material grading in the 0.20+ oz. Au/ton range may exist in these areas to a depth of 1000 feet. Also, there is no apparent reason why the ore structure should not extend well below the 1000' Level. However, considering only the semi-developed areas of the mine, and including the stamp mill tailings as previously discussed, 50,000 to 60,000 ounces of gold may well

be available at relatively low cost to a new operator.

As to identified exploration prospects (1) the extension of the No. 1 Vein system below the 1000' Level, (2) the virtually unexplored No. 2 Vein system, and (3) the possibility of an offset extension of the No. 1 Vein structure to the south of the present workings must be rated as particularly attractive. In addition, the remaining greenstone areas of the property have not been thoroughly explored, and warrant attention.

EVALUATION REQUIREMENTS

GENERAL COMMENTS:

As noted in the preceding section the St. Anthony property is considered to offer excellent possibilities for the definition of gold ores both within the presently existing workings, and elsewhere. Early production is, of course, desirable, and any evaluation program should thus be largely oriented to the appraisal of those situations offering the maximum potential in this regard.

It has also been observed that there is an unfortunate lack of specific data on the mine area in particular, and we are uncertain as to the character and extent of the postulated ore remnants and extensions. Aubet Resources Inc. should therefore proceed with caution, performing confirmatory work prior to any costly commitment such as mine rehabilitation, etcetera.

A staged evaluation process is therefore proposed, with the initial phase consisting of geophysical work, confirmatory drilling, and a test of the tailings area. The second stage, predicated on encouraging results from the first, will involve dewatering, sampling and limited development work within the mine workings.

It will be noted that this program will be eligible in great part for

assistance under the Ontario Mineral Exploration Program, administered by the Ministry of Natural Resources of Ontario. Up to 25 percent of eligible exploration expenses will be paid by the Province of Ontario on an approved program.

THE EVALUATION PROGRAM:

Stage I of the program provides for the layout of a grid over the mine area, and geophysical coverage by VLF-EM and magnetic surveying. As shown on Map No. 1 (in pocket), approximately 20,000 feet of line will be required initially, with stations at 100 foot spacing. Closer coverage may be required in anomalous areas. The VLF-EM data, particularly when processed by the Fraser Filter Method, will prove helpful in structural analysis, and is capable of definition of weakly pyritic zones of the type associated with gold ore in this environment.

Five confirmatory BQ drill holes are recommended, as shown in Figure 4 and on Map No. 2 (in pocket). These holes are designed to confirm ore extension at relatively shallow depths below the North Open Cut of the No. 1 Vein system, and below the 750' Level. The three deeper holes have the additional advantage of testing the No. 2 Vein system at depths of 300 to 400 feet along a 400 foot strike length. The suggested hole locations are as follows:

Hole No.	Coordinates From No. 1 Shaft Collar	Bearing	Dip	Approx. Depth (ft.)
1	350' N20°E; 260' N70°W	S 70° E	-50°	400
2	150' N20°E; 260' N70°W	S 70° E	-50°	400
3	200' S20°W; 700' N70°W	S 70° E	-65°	1100
4	400' S20°W; 700' N70°W	S 70° E	-75°	1400
5	600' S20°W; 700' N70°W	S 70° E	-65°	1100
Total				4400 ft.

A provision for 2000 feet of contingency drilling is also included in

the program, to be used as required for additional confirmatory drilling or anomaly evaluation.

The tailing test area, as shown on Map No. 2 (in pocket), should be auger tested to depths estimated at 10 to 15 feet. As the original stamp mill tailings area (see Figure 5) is estimated to cover an area about 300 feet by 300 feet, a search grid at 100 foot centers can be completed initially. On location of the stamp mill tailings, sampling on 20 to 25 foot centers will be required. Allowance for 100 test holes has been made. Since the coarser stamp mill tailings are covered by finer tailings from the cyanide-leach plant, it is suggested that provision for selective sampling in the auger holes be made.

An allowance for the fencing of the No. 1 Shaft area has been included in the Stage I program. Caving is taking place at the collar of this shaft, and safety precautions should be taken at an early date.

Stage II of the evaluation program makes provision for dewatering and rehabilitation of the underground workings on the No. 1 Vein system. Allowance is made for bulk sampling, some development work, 3500 feet of diamond drilling, and metallurgical test work. Note that prior to dewatering a thorough test of the mine water will be required, and a permit for discharge obtained.

It is estimated that the time required for completion of Stage I of the program will be approximately 6 months. A similar period will be required for Stage II.

COST ESTIMATES:

Stage I:

Confirmatory drilling (4400 ft. BQ @ \$30.00/ft.).....	\$ 132,000
Contingency drilling (2000 ft. BQ @ \$30.00/ft.).....	60,000

Drilling, mobilization & demob.	\$ 7,000
Tailings Test Program (100 holes).....	10,000
Line Cutting, Chaining (approx. 5 mi.)....	1,500
Geophysical Surveying (VLF-EM, Mag.).....	3,500
No. 1 Shaft Fencing.....	2,500
Supervision, Compilation.....	15,000
Assaying, Core Storage.....	7,500
Consulting.....	5,000
Travel, Accomodation.....	12,500
	<hr/>
Subtotal	\$ 256,500
Contingencies (10%)	25,650
	<hr/>
Total Estimated Cost	\$ 282,150 *

Stage II:

A. Environmental:

Mine water testing, Report.....\$ 7,500

B. Dewatering:

(Estimated 33 million gallons. Pumping
@ 500,000 gal./day possible, requiring
66 day period)

Contract Cost (\$3000/day for 66 days)... 198,000

C. Rehabilitation:

Shaft (1250 ft. @ \$125/ft. contract).... 156,250

Drifts, Crosscuts..... 30,000

D. Standby & Development:

Contract Cost; Pumping, Compressor,
Hoist @ \$600/day for
90 day period..... 54,000

E. Contract Cost; X-Cuts, Drill Stations,
Bulk Sample Cuts..... 40,000

F. Underground Exploration, Sampling:

Labour (Geologist, 2 helpers, 3 mo.).... 25,000

Diamond Drilling (3500' @ \$20/ft.).... 70,000

Sample Treatment Facilities..... 5,000

Assaying..... 10,000

Metallurgical Testing..... 12,500

F. Continued

Travel, Accomodation.....	\$ 25,000
Supervision, Consulting.....	22,500
Subtotal	<u>\$ 655,750</u>
Contingencies (@ 15%)	<u>98,360</u>
Total Estimated Cost	<u>\$ 754,110 *</u>

Summary:

Estimated Cost, Stage I	\$ 282,150
Estimated Cost, Stage II	754,110
Overall Total Evaluation Cost.....	<u>\$ 1,036,260 *</u>

* Most of the indicated costs will be subject to a 25 percent rebate under the Ontario Mineral Exploration Program, if desired.

CONCLUSIONS

1. The St. Anthony Mine operated during the period 1905 to 1941, producing 63,310 ounces of gold and 16,341 ounces of silver from 332,720 tons of milled ore. Mining operations ceased at the end of 1941 due to a lack of manpower and shortages of equipment and supplies during the war years. The closure does not appear to have been the result of lack of prospective reserves or real decrease in ore grade.
2. All production came from the No. 1 Vein system, a lenticular zone of quartz veining within greenstones and granite which strikes N 20° E and dips steeply west. It was mined over a length of 800 to 1000 feet to a depth of 750 feet, with an average mining width of 12 feet reported. No mining was carried out below the 750' Level, though

some development was completed to the 1000' Level.

3. Within the No. 1 Vein system there may be as much as 250,000 tons of ore grade material remaining in place to the 1000' Level. This does not include ore remnants within stoped areas, which would be doubtfully accessible. There is no apparent reason that the ore system should not extend below the 1000' Level.
4. Milling of the St. Anthony ores was by stamp-amalgam process to 1930, and by cyanide-leach methods thereafter. The stamp mill operation was inefficient, extracting only 50 to 60 percent of the contained gold. Accordingly, it is possible that 35,000 to 40,000 tons of stamp mill residue may exist within the present tailings area. This material should grade in the 0.18 oz.Au/ton range, and would be easily available for reclamation.
5. Other possibilities for ore occurrence exist within the property area, notably along the No. 2 Vein system to the west of the No. 1 zone. In that the gold of the area is probably of paleo-placer origin, concentrated in tuffaceous sediments within the greenstone sequence, exploration within the greenstones away from the granite should be pursued. The most favourable areas would be expected to lie more or less on strike with known zones of veining and mineralization.
6. A staged program of exploration and evaluation on the St. Anthony property has been developed herein. The initial phase of the program provides for geophysical surveying, a test of the tailings area, and confirmatory drilling. The cost of this work is estimated at \$ 282,150. The second phase of the program involves the opening and thorough sampling of the unmined areas of the No. 1 Vein system at an estimated cost of \$ 754,110.
7. Aubet Resources Inc. has acquired the St. Anthony property, consisting at this time of 13 patented mining claims comprising approximately

520 acres. Title to these lands is secure, and as represented.

RECOMMENDATIONS


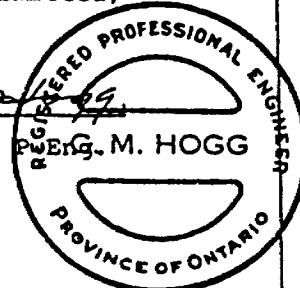
The St. Anthony property affords excellent potential for the development of good grade gold ores both within the No. 1 Vein system, and elsewhere within the claim area. As such, it warrants thorough evaluation at this time, essentially as proposed herein.

The suggested program is staged, with the first phase being of an exploratory and confirmatory nature. The second phase is designed to evaluate the No. 1 Vein system in detail, and should be undertaken only if the confirmatory drilling of the first stage proves encouraging.

The condition of the workings of the No. 1 Vein system is unknown, but access should be possible for evaluation purposes. For deeper ores the existing access is through the No. 3 Winze, which will prove an awkward arrangement for mining purposes. If the second phase of evaluation is undertaken, efforts should be made to assess the depth potential of the deposit insofar as possible. A new shaft would be desirable for more efficient operation at depth, but will be justifiable only if substantial amounts of ore are in prospect.

The cost of the entire evaluation program is estimated at \$ 1,036,260. The Ontario Mineral Exploration Program will likely fund up to 25 percent of this cost, or approximately \$ 250,000. It is recommended that this assistance opportunity be utilized.

Respectfully Submitted,

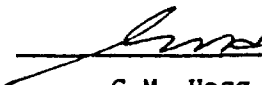

G.M. Hogg, P.Eng. M. HOGG



CERTIFICATE OF QUALIFICATION

I, Glen M. Hogg, of the City of Toronto, County of York, in the Province of Ontario, Canada, do hereby certify that:

1. I am a Consulting Engineer, principal of the firm of G.M. Hogg & Associates Ltd., with an office located at 28 Thompson Avenue, Toronto, Ontario.
2. I am a member of the Association of Professional Engineers of Ontario, a registered Consulting Engineer with that organization, and designated as a Specialist in the Field of Geological Engineering, Classes of Exploration and Development, as per Regulation 59/73 of the Professional Engineers Act, RSO 1970.
3. I am a graduate of Queen's University of Kingston, Ontario, having received the degree of Master of Science in Geological Sciences from the Faculty of Applied Science in 1952. I have since practised professionally in the field of mineral exploration and development.
4. I have knowledge of, and experience in the area in which the St. Anthony Mine property is located.
5. In addition to my personal knowledge of the area, I have made use of the records of the Ministry of Natural Resources of Ontario, and Aubet Resources Inc. in the preparation of this report. I examined the property relevant to this study on August 13, 1981.
6. I have no interest, direct or indirect, in the property on which this report is written, nor do I expect to receive any.

Dated this 22nd day of September, 1981.


G.M. Hogg, P.
Eng.



REGISTERED PROFESSIONAL ENGINEER
G. M. HOGG
PROVINCE OF ONTARIO

APPENDIX I

LISTING OF SOURCES OF INFORMATION
ON THE ST. ANTHONY MINE

Coleman, A.P. (1902)-	OBM Annual Report, Vol.11, pgs. 148-49, 242. Jack Lake Co. Mine in Iron Ranges of NW Ont.
Miller, W.G. (1903)-	OBM Annual Report, Vol.12, pgs.82-4. St. Anthony Reef Mine.
Carter, W.E.H. (1904)-	OBM Annual Report, Vol.13, pg.70. St. Anthony Reef Mine.
Carter, W.E.H. (1905)-	OBM Annual Report, Vol.14, Pgs.54-6. St. Anthony Reef Mine.
Corkill, E.T. (1907)-	OBM Annual Report, Vol.16, Pt.1, pg.60. Sturgeon Lake Area.
Corkill, E.T. (1908)-	OBM Annual Report, Vol.17, Pt.1, pg.79. St. Anthony Gold Mine.
Houston, J.C. (1911)-	Canadian Mining Journal, June 15, 1911, pgs.387- 92. The St. Anthony Gold Mine.
Houston, J.C. (1911)-	Canadian Mining Journal, Nov.1, 1911, pgs.6-7. Engineer's Report on St. Anthony Mine.
Moore, E.S. (1911)-	OBM Annual Report, Vol.20, Pt.1, pgs. 145-46. The St. Anthony Mine.
Corkill, E.T. (1912)-	OBM Annual Report, Vol.21, Pt.1, pg. 100
Corkill, E.T. (1913)-	OBM Annual Report, Vol.22, Pt.1, pg. 99. St. Anthony Gold Mine.
Sutherland, T.F.(1916)- et al	OBM Annual Report, Vol.25, Pt.1, pg.68. St. Anthony Mine.
Sutherland, T.F.(1917)- et al	OBM Annual Report, Vol 26, Pt.1, pg. 75. St. Anthony Mine.
Sutherland, T.F.(1918)- et al	OBM Annual Report, Vol. 27, Pt.1, pg.87 St. Anthony Mine.
Sutherland, T.F.(1919)- et al	OBM Annual Report, Vol. 28, Pt.1, pg.104. St. Anthony Mine.
Sutherland, T.F.(1921)- et al	ODM Annual Report, Vol.30, Pt.1, pg.65. St. Anthony.

- Hopkins, P.E. (1921)- ODM Annual Report, Vol.30, Pt.2, pg. 41.
St. Anthony.
- Sinclair, D.G.(1929)- ODM Annual Report, Vol.38, Pt.1, pg. 143-44.
et al St. Anthony Gold Mines Ltd., Mines of Ontario
in 1928.
- Graham, A.R. (1930)- ODM Annual Report, Vol.39, Pt.2, pgs. 45-48.
St. Anthony Mine in Sturgeon Lake Gold Area.
- Sinclair, D.G.(1934)- ODM Annual Report, Vol. 43, Pt.1, pgs.97-98.
et al St. Anthony Gold Mines Ltd.
- Sinclair, D.G.(1935)- ODM Annual Report, Vol.44, Pt.1, pgs. 138-39.
et al St. Anthony Gold Mines Ltd. in Mines of Ontario
in 1934.
- Sinclair, D.G.(1936)- ODM Annual Report, Vol.45, Pt1, pg. 154.
et al St. Anthony Gold Mines Ltd. in Mines of Ontario
in 1935.
- Sinclair, D.G.(1938)- ODM Annual Report, Vol.47, Pt.1, pg.201)
et al St. Anthony Gold Mines Ltd. in Mines of Ontario
in 1937.
- Sinclair, D.G.(1939)- ODM Annual Report, Vol.48, Pt.1, pgs.194-95.
et al St. Anthony Gold Mines Ltd. in Mines of Ontario
in 1938.
- Tower, W.O. (1940)- ODM Annual Report, Vol.49, Pt.1, pgs.196-97.
et al St. Anthony Gold Mines Ltd. in Mines of Ontario
in 1939.
- Tower, W.O. (1941)- ODM Annual Report, Vol.50, Pt.1, pgs.212-23.
et al St. Anthony Gold Mines Ltd. in Mines of Ontario
in 1940.
- Echolls, H.V.(1941)- St. Anthony Gold Mines Ltd.; Composite Level
Plan and Longitudinal Section of Mine Workings.
- Tower, W.O. (1942)- ODM Annual Report, Vol.51, Pt.1, pgs.188-191.
et al St. Anthony Gold Mines Ltd. in Mines of Ontario
in 1941.
- Holbrooke, G.L.(1964)- Report on the St. Anthony Property of Con Key
Mines Ltd., Sturgeon Lake, Ontario. Sept.12,1964
- Christopher, I.C.(1973)- Report for Can Con Enterprises and Exploration
Ltd. on the Squaw Lake Area, Sturgeon Lake,
Ontario. April 10, 1973.

- Beaton, W.W. (1975)- Report on the St. Anthony Gold Mine, Sturgeon Lake, Ontario, October 4, 1975.
- Trowell, N.F. (1977)- Ontario Geological Survey Map 2420.
- Beaton, W.W. (1980)- Report on St. Anthony Gold Mines, Sturgeon Lake, Ontario. July 3, 1980.
-
- Ontario Department of Mines- Mineral Deposits Files, St. Anthony Mine.
- Department of Energy, Mines- Mineral Resources Branch, Files on Gold,
and Resources, Ottawa St. Anthony Mine.
- St. Anthony Gold Mines Ltd.- Miscellaneous data in possession of Aubet Resources Ltd. including Stamp Mill Tailings plan and assays (circa 1930).

APPENDIX II

Extract from A Report on the Sturgeon Lake Gold Field; E.S. Moore (1911), Ontario Bureau of Mines Annual Report, Vol. 20, Pt. I.

The St. Anthony Mine

The St. Anthony mine is situated on claims H.C. 151 and 152 on the west shore of Couture lake. The camps (Fig. 10) are located on H.C. 151 and 152 on St. Anthony bay, a small indentation in the shore of North bay of Sturgeon lake. The camps, as well as some of the buildings at the mine, have been renovated during the past summer, preparatory to the carrying out of further development work at the mine.

This property, which is by far the most important one in the district, was located about ten years ago, when it was known as the Jack Lake mine. It also goes by the name of the St. Anthony Reef, because of the idea held by some that its surroundings suggested a reef rising above the water of Couture lake. It has been controlled for some time by the St. Anthony Mining Company, and was worked from the year 1903 until 1908, when it was closed down. During 1907 and 1908 Mr. J. Steele worked the mine under option. The present manager of the company is Mr. Arthur L. McEwan, to whom I am much indebted for his hospitality to us while working in the vicinity of the mine.

The buildings at the mine (Fig. 11) consist of ~~the mill, amalgamation plant, boiler, engine and shaft house, carpenter shop and blacksmith shop. The sulphide concentrates from the mill have been stored pending better shipping facilities.~~

The general plan of the mine and the geology in its immediate vicinity is shown on the accompanying sketch map (page 147). ~~The mine workings consist of an open cut extending almost north and south along the main vein (from Couture lake Fig. 12). This cut is over 200 feet long and reaches a maximum depth of 40 feet and width of 25 feet. ~~At the top of the cut there are two adits and the present shaft No. 2 is sunk from the surface.~~ In the bottom of the open cut shaft No. 2 is found, and it extends 100 feet below the surface. About 220 feet north of this shaft No. 2 has been sunk and a drift connects the two shafts, most of it lying along the vein. At the bottom of No. 2 a cross-cut runs west 30 feet to pick up the vein, and then a drift south 67 feet and another cross-cut east to the north and south drift between the shafts. A cross-cut is said to extend east 125 feet from the bottom of No. 2 shaft. The hoisting is done from this shaft, which is timbered.~~

From the west end of the 30-foot cross-cut from shaft No. 2 a drift runs north 180 feet to an upraise known as No. 1 shaft, and from the opening a drift is said to continue further north 160 feet. No mine maps were available at the time of my visit, and these figures are compiled from several sources.

Besides the open cut there are on the surface a number of pits as indicated on the sketch map, but none of these are very extensive. The rocks in the vicinity of the mine consist of Keewatin greenstone, schist and schistose gneiss, intruded by quartz-porphphyry, and the whole intruded by the later Sturgeon Lake granite. The granite in this vicinity is porphyritic and highly altered by hydrothermal action, where chemically active waters have acted on the rocks. The main vein runs in the granite close to the contact for some distance, and then leaves the granite and extends out into the schists. There seems to be good evidence that when the granite cooled and shrank, the adjacent rocks were broken and shifted so that a fissure could be filled with quartz and calcite. From the appearance of the walls on the sides of the open cut it looks as if the rock on the east side of the fissure moved north and that on the west side south. At the time this large fissure was formed countless smaller ones were developed, so that there is a zone about one-quarter of a mile wide, more or less streaked with quartz veins, and in places the walls of the main fissure become indistinct in the granite (Fig. 22). In the walls of the veins the granite has been so altered that most of the feldspar has

disappeared, and the rock has turned into a greenish-yellow protogine, consisting almost entirely of quartz and muscovite.

The gangue in the granite and schist is largely quartz, but some calcite occurs in both rocks and in greater proportion in the latter. Some siderite is also present where the vein cuts the schist. In the open cut in the schist, the walls are distinct, although the quartz is often distributed in narrow veins along the planes of cleavage, and the whole mass from wall to wall contained more or less gold.

The minerals in the gangue are free gold, pyrite, chalcopyrite, sphalerite and galena. Beautiful specimens of free gold have been obtained from this mine. ~~Such~~
~~specimens of free gold have been obtained from this mine. Such~~
~~specimens of free gold have been obtained from this mine. Such~~
The ore from the schists contains less gold than the granite, and

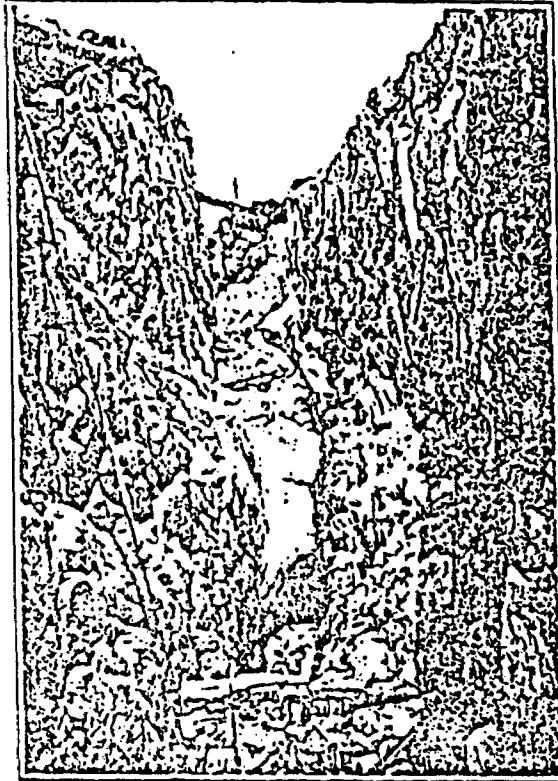


Fig. 12. Open cut at St. Anthony mine.

this seems to be due to the greater ease with which oxidizing waters percolate the schists. The writer was informed while at the Athabasca mine, near Nelson, B.C., that similar conditions existed there where the ore occurs in porphyritic granite and schist.

No assays of the ore were made by the writer, but the manager states that much ore was mined which ran as high as \$85 per ton, and that there is still in the mine a good deal of ore which will average \$12 per ton. ~~It is probable that with depth~~
~~the quartz veins will become less clearly defined in the granite, it being probable that~~
~~most of these veins were formed in the older and higher portion of the granite magma~~
~~where it contains less than a whole per cent of gold.~~

During the past summer new interest was taken in this property, and considerable work was done in the way of putting up new buildings and making a start at development work by sinking in No. 3 shaft.

This property has been described by other writers, and references are given in this report in the section on the history of the field.

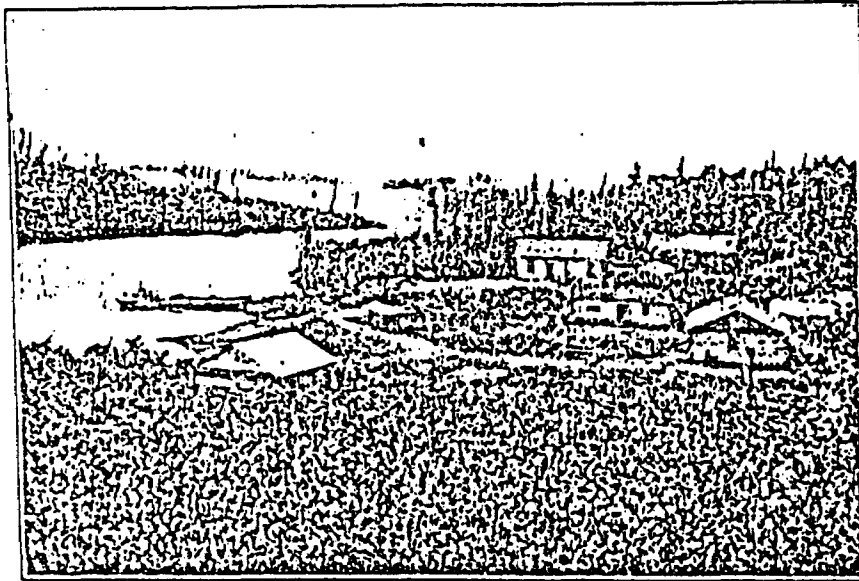


Fig. 10. St. Anthony mine camp, Sturgeon lake.

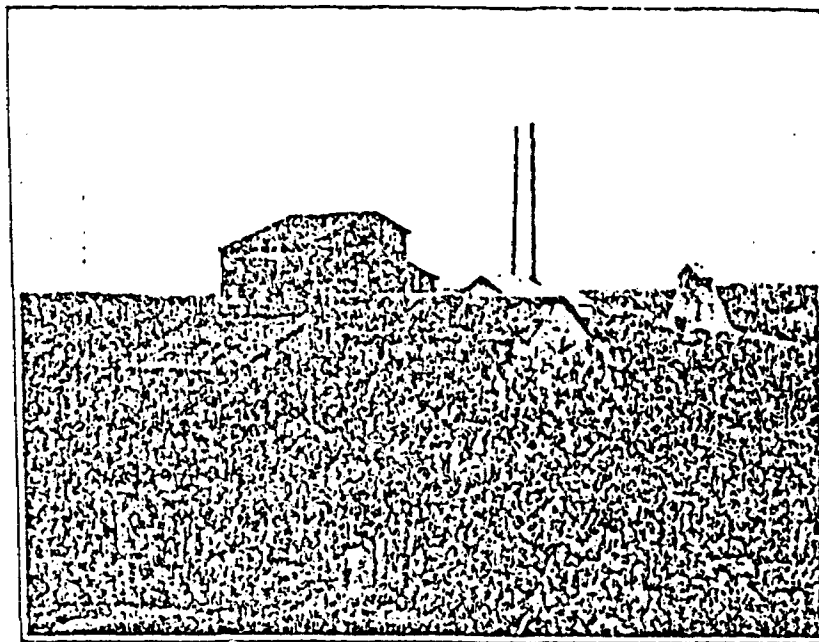
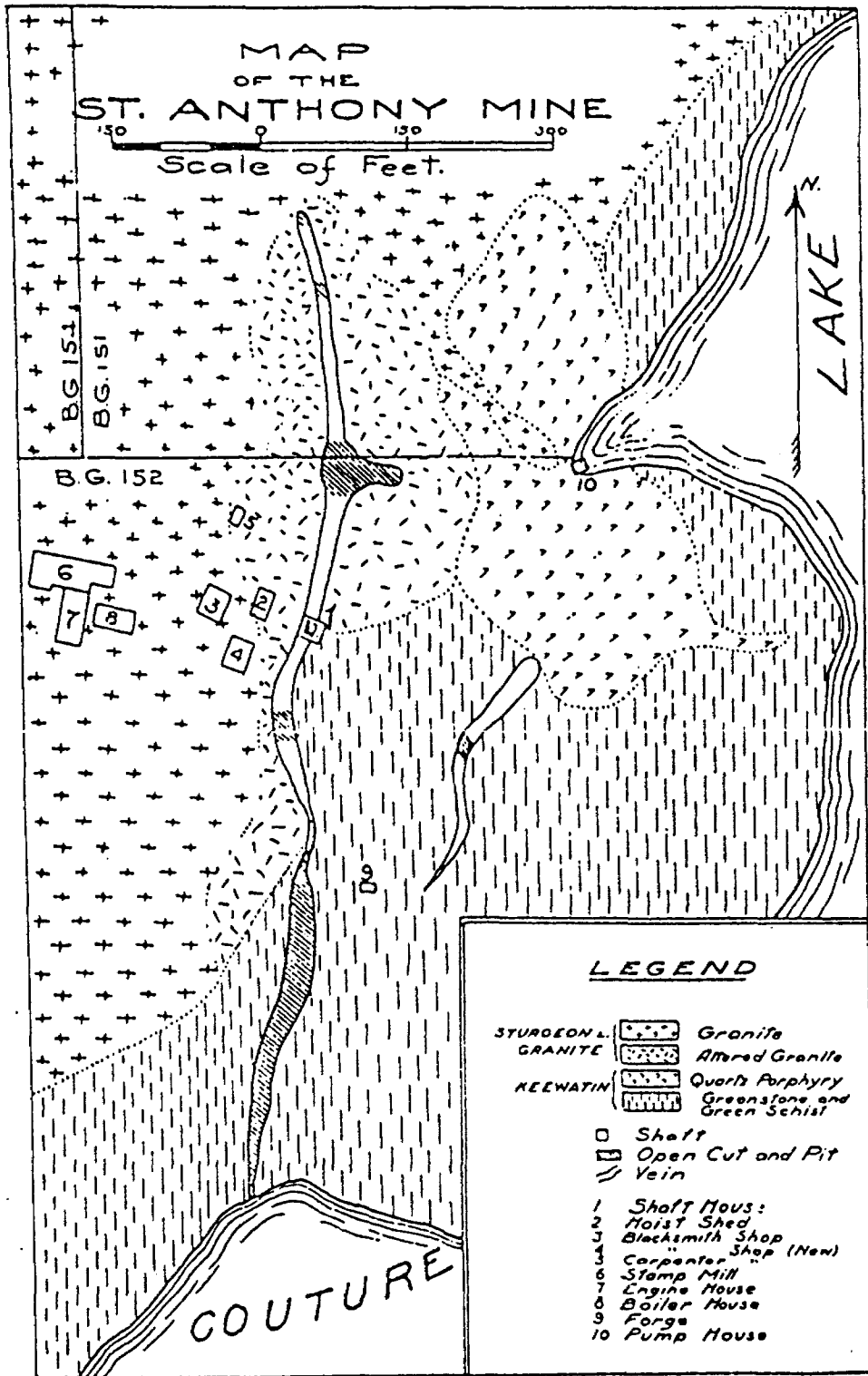


Fig. 11.—St. Anthony mine, Sturgeon lake, showing stamp mill, power house and shaft house.



APPENDIX III

St. Anthony Gold Mines, Limited

St. Anthony Gold Mines, Limited, was incorporated in September, 1921. The authorized capitalization is 5,000,000 shares of \$1 par value, of which 4,168,510 shares have been issued. The officers and directors are: H. P. Bellingham, president and general manager; R. H. Sankey, vice-president; D. M. Bellingham, secretary-treasurer; J. T. Horner and A. V. Silk, directors. The head office is at 159 Bay Street, Toronto. The mine address is St. Anthony Mine P.O.

The property consists of 16 claims, 698 acres, 12 miles south of Savant Lake station on the main line of the Canadian National Railways, in Thunder Bay district. The 3½-mile wagon road from Savant Lake station leads to the north end of the North arm of Sturgeon lake. From this point, transportation to the mine is by water. Scows and power boats are used to transport supplies over the water route. During 1940 two groups of claims, consisting of 17 claims in all, were staked on behalf of the company in the Savant Lake area, about 30 miles north of the main property.

The mine is served by two shafts and three winzes. The old 2-compartment, vertical No. 1 shaft is 150 feet deep. The inclined, 2-compartment No. 2 shaft has been sunk to a depth of 766 feet from surface. No. 1 winze, collared at the 150-foot level, is 213 feet deep. No. 2 winze, collared at the 350-foot level, is 150 feet deep. No. 3 winze, which is collared at the 750-foot level, was sunk to a depth of 262 feet in 1940, and two new levels were established at 875 and 1,000 feet from surface. The following table shows the development work done during 1939 and the total:—

Level	Drifts		Crosscuts		Raises	
	1940	Total	1940	Total	1940	Total
	feet	feet	feet	feet	feet	feet
100-foot.....	96	1,316	.....	453	.....	182
150-foot.....	143	1,328	.....	330	.....	250
250-foot.....	.....	817	.....	310	.....	225
350-foot.....	129	1,687	83	433	.....	490
500-foot.....	118	1,725	.....	180	31	366
625-foot.....	.....	964	.....	380	65	230
750-foot.....	.....	854	37	482	.....	162
875-foot.....	326	326	114	114	23	23
1,000-foot.....	38	38	17	17	.....	.....

The following diamond-drilling was done during the year: 15 holes, totalling 2,030 feet, from surface; 37 holes, totalling 6,708 feet from underground. Surface exploration consisted of 300 feet of trenching, 2 feet deep.

A second bunk-house was erected in 1940, an addition to the dry-house was built, and the coarse-ore bin was enlarged. Equipment purchased included the following: amalgam barrel for the mill; a 10,000-gallon fuel oil storage tank; a 2 h.p. Boyles X-ray diamond-drill outfit; a 625-cubic-foot Canadian Ingersoll-Rand Diesel compressor; a Dominion Crossley 150 h.p. Diesel engine, directly connected to a Canadian General Electric 125 k.v.a. generator. The installation of the new Diesel units provided ample power to carry on all operations independent of the hydro-electric plant. Owing to the shortage of water in Sturgeon lake it was necessary to close the hydro-electric plant during the winter season. It is the present intention to use Diesel power exclusively for six months of the year, building up the water storage so that the company's hydro power can be used during the other six months.

The following is taken from the manager's report for the year ending December 31, 1940:—

Development

Development blocked out 102,310 tons of ore during the year, in addition to the known ore reserves of December 31, 1939.

Exploration on the upper levels has disclosed a parallel vein in the greenstone formation located about 25 feet east of the main vein. Intersections have been made on the 150-, 250-, and 350-foot levels. This vein is developed for 200 feet on the 150-foot level, and work is now in progress of further developing this occurrence as the south faces on all three levels are still in ore. Stopping widths have varied from 10 to 20 feet, and gold values have averaged in excess of \$13.00 per ton.

Diamond-drilling

Diamond-drilling programme for the year consisted of a total of 8,738.5 feet of surface and underground drilling. A number of surface veins were drilled, and in several instances high gold values were obtained. These locations will receive further exploration during the coming summer.

The most promising underground diamond-drill intersections were obtained from drilling the west vein about 160 feet west of the main ore zone. This vein was drilled over a length of 500 feet by holes on the 350-, 750-, and 875-foot levels. Gold values up to \$31.92 across 23 inches and \$50.16 across 12 inches were intersected in this vein. A crosscut has been driven to this vein on the 875-foot level. Assay returns from initial work were \$13.58 across 38 inches and \$9.00 across 36 inches. Several other ore intersections elsewhere obtained from diamond-drilling will be explored as machines are available.

Ore Hoisted

During the year 75,773 tons of ore were drawn from the stopes on the different levels as follows:—

	Tons
100-foot level.....	6,563
150-foot level.....	7,735
350-foot level.....	750
500-foot level.....	27,283
625-foot level.....	15,414
750-foot level.....	18,028
Total.....	75,773
Waste sorted on surface.....	15,493
Tons milled.....	60,290
Less moisture.....	1,241
Net milled.....	59,039

Milling

Milling operations continued throughout the year, and the daily tonnage treated was increased from the 1939 average of 80.7 tons per day to the current average in excess of 200 dry tons per 24 hours.

Tons of ore treated.....	59,039
Average tons milled per day.....	167
Per cent. waste sorted on surface.....	20
Per cent. operated of possible milling time.....	96.6
Per cent. of average recovery.....	94.7
Total fine gold recovered and shipped..... ounces	10,978.898
Total silver bullion recovered and shipped..... ounces	3,082.440
Average value of mill heads.....	\$7.57
Total value of bullion recovered and shipped (basis Mint)....	\$423,563.49

Operating Cost

		Per ton milled	Per ton hoisted
Mining costs.....	\$185,511.08	\$3.14	\$2.45
Milling costs.....	80,682.58	1.36	1.06
Development.....	14,878.53	.26	.20
Diamond-drilling.....	7,270.26	.12	.10
Total.....	\$288,342.45	\$4.88	\$3.81

DEVELOPMENT UNIT COSTS

Average cost of drifting and crosscutting.....	per foot	\$9.63
Average cost of raising.....	per foot	11.72
Average cost of slashing.....	per cu. ft.	.13
Sinking No. 3 winze.....	per foot	38.70
Diamond-drilling.....	per foot	.83

Income

Bullion produced	\$423,563.49
Sundry revenue (including \$480.63 contra items)	727.83
Total income	<u>\$424,291.32</u>
Mine operating expenditures, including development and diamond-drilling	<u>288,342.45</u>
Mine operating profit, exclusive of administrative expenses, depreciation, taxes, and asset expenditures	\$135,948.87

Conclusion

Ore reserves indicate at least one year's ore, milling from 190 to 200 tons per day. In addition there are several years' probable ore indicated from diamond-drilling results on the west vein and other veins. Due to the erratic distribution of gold values and limited amount of work, it is impossible to arrive at an average grade of ore to be expected from these other probable ore sources.

H. V. Echolls was mine manager. An average of 124 men was employed, of whom 67 were in the mine, 15 in the mill, and 42 on general surface work.

APPENDIX IV

REPORT ON

ST. ANTHONY GOLD MINES

STURGEON LAKE, ONTARIO

July 3rd, 1980

W.W. Beaton

INDEX

	<u>PAGE</u>
Summary	1
Introduction	2
Area Location Access	2
History	3
Geology	3
Gold Occurrences	4
Possible Recovery from Tailings	7
Conclusions & Recommendation	8

Summary:

The property formerly known as the St. Anthony Gold mines, situated in the Sturgeon Lake area of North Western Ontario, in which area several large base metal deposits have recently been discovered and are now under rapid development. The Ontario Department of Mines records a production of gold worth \$2,165,292.00 between 1903 and 1942. The Ontario Bureau of Mines report of 1911 records that much ore was mined that ran as high as \$85.00 per ton (gold was then worth \$20.60 per ounce).

Although the shaft is 1000' deep the property was only developed and mined to the 750' level.

Lateral and vertical extensions past the mined area have not been explored.

There are two other gold bearing zones on the property that warrant evaluation.

Research work done by the writer in 1926 on the slimes from the mill of the St. Anthony showed a recovery of less than 50% of gold, the slimes from the original mill (a stamp mill using amalgamation) were still available when I last was on the property and a good gold recovery was possible using modern cyanidation.

It is now recommended that the tailings be evaluated for possible gold recovery and if found feasible they be milled to provide funds for further evaluation of the property and dewatering of the shaft.

INTRODUCTION:

The purpose of this report is to recommend further detailed exploration of this property.

This report was requested by the present owners of the property.

This report was written from personal examination of the property both surface and underground in 1935 and from Mining records filed with the Ontario Bureau of Mines, by a report by George Holbrooke, P. Eng., dated July 8, 1965, a report of I. C. Christopher, P. Eng., Dated June 11, 1973.

AREA LOCATION ACCESS:

The property consists of 13 patented mining claims numbered;

T.B.	11414	to T.B.	11416 inclusive
T.B.	11087	and T.B.	11088
H.W.	744	to H.W.	746 inclusive
B.G.	151	to B.G.	154 inclusive
Bls.	168		

It contains approximately 520 acres.

AREA LOCATION ACCESS: (cont'd)

The property is located near the north end of Sturgeon Lake on the east shore of the lake on a strip of land between Sturgeon and Couture Lakes.

The highway, No. 599, from Ignace to Savant Lake is six miles east of the property.

Present access to the property is by boat from the gravel road from Savant Lake to the north end of Sturgeon Lake or by aircraft landing in either Sturgeon or Couture Lake.

HISTORY:

This property known as the St. Anthony Mine, was staked in 1902 and operated intermittently until 1942. Production was started with an open cut. Later a shaft was sunk which ultimately reached a depth of 1,000'.

The records show a total production of \$2,165,292 from a tonnage handled of 331,069 tons (Ontario Department of Mines Report for 1955, page 22).

GEOLOGY:

The eastern part of the property is underlain by Keewatin Volcanics consisting for the most part of andesitic flows with a few minor rhyolitic phases. A quartz porphyry dike cuts the lavas across the property from northeast to southwest.

The western part of the property is underlain by grano-diorite.

GOLD OCCURRENCES:

The gold bearing veins occur in the granitic formation and consist mainly of fractured white quartz usually banded with pyrite galena and sphalerite. Visible gold occurs with the sulphide bands.

The main vein occurs on Claims BG. 152 and BG. 151. The vein strikes north 10° east and extends from Couture Lake on to Claim BG. 151, a distance of over 1000 feet.

The vein was originally opened up on surface by an open cut, starting at Couture Lake and extending north for 300 feet and was mined to a depth of 40 feet and an average width of 25 feet.

The zone was developed by underground mining and diamond drilling. The mine produced until January 1942 when war conditions made gold mining almost impossible. At that time the shaft and winze had reached a depth of 1,000 feet. Due to the mine closing, the lower levels were never explored.

Two other gold bearing zones occur on the property. The #2 zone which is located about 450 feet west of the main vein. It is a shear zone in granite which strikes northeasterly and has a steep dip. It carried lenses and stringers containing pyrite mineralization. It is exposed at surface in the granite near the south granite contact and continues southwesterly across the granite volcanic contact.

Gold Occurrences (cont'd)

A diamond drilling program was undertaken during the summer of 1965 under the direction of George Holbrooke, P.Eng.. The following excerpt is taken from Holbrook's report dated July 8th., 1965:

"Four holes, Nos. 2 to 5, were drilled across the No. 2 zone at 50 foot intervals. These holes covered a 250 length of the zone centered on the granite contact. The results showed the contact to be much more irregular than previously thought and to consist of a series of fingers of granite projecting southward from the main body into the adjacent basic lavas and tuffs.

Quartz veining with irregular pyrite mineralization across narrow widths up to 6 feet was encountered in all of the holes and is apparently best developed in sheared basic tuffs along the main granite contact. All sections of quartz and pyrite mineralization were sampled but with the exception of No. 2 hole at the north end of the drilling 5.5 feet of quartz and the last 1.7 feet of this vein assayed 1.18 ounces of gold per ton.

In order to check this occurrence three holes No. 19, 20 and 21 were drilled respectively 25 feet south under, and north of No. 2. Hole No. 19 to the south intersected the vein but returned only 0.01 ounces across 2.1 feet. No corresponding vein was cut in hole No. 21 to the north but hole No. 20, twenty-five feet vertically beneath No. 2 hole, returned 0.38 ounces gold per ton across 1.2 feet."

DIORITE ZONE

The second zone is referred to as the diorite zone and it lies about 160 feet west of the southern exposure of the main vein. It is a strong shear zone which trends N25°E and dips steeply to the east. It has been traced for 260 feet from near the lakeshore to within 120 feet of the granite contact and cuts across an irregular sill of altered diorite at an acute angle. The shearing carried lenticular bodies of quartz up to 6 feet wide and a small shaft has been sunk on one of these lenses near the south end of the exposure.

A series of drill holes were put down on the zone by Holbrooke in the exploration program carried out during the summer of 1965.

The following excerpts discussing the results of this work are also taken from Holbrook's report dated July 8th, 1965:

"Six holes, Nos. 6 to 11, were drilled from west to east at 50 foot intervals across the zone and cover a length of 350 feet. Narrow zones of silicification and strong pyrite mineralization were found in the sheared basic volcanics and some of these carried interesting values. The mineralization was all on the west or footwall side of the diorite sill and the only quartz encountered was in a few very narrow stringers. The mineralization and the bedding in the volcanics was seen to be at an angle of about 20° to the core axis so that an east dip of about 65° is indicated and the intersections quoted below represent only very narrow streaks of sulphide mineralization.

Diorite Zone (cont'd)

For the most part the sulphide mineralization and the quartz stringers were found to be practically barren at intersections in three successive holes returned appreciable values in gold as follows:

<u>Hole No.</u>	<u>Footage</u>	<u>Core Width</u>	<u>Ounces Gold per ton</u>
7	17.5	1.0	0.55
	25.5	2.0	0.58
8	11.0	4.0	0.10
9	75.8	3.0	0.40

It is reported that the following minerals were in the vein that was mined: free gold, pyrite chalcopyrite, sphalerite and galena. No report is available that would indicate whether these sulphides were an amount that would make them of interest with present day metal values.

POSSIBLE RECOVERY FROM TAILINGS:

A report by the Ontario Bureau of Mines shows that 331,069 tons were milled at the mine.

From information I have been able to obtain it appears that over 50% of this tonnage was treated by a stamp mill and amalgamation tables.

Representative samples of these tailings were sent to me by the then mine manager in 1926. I found that less than 50% of the gold was recovered using the reported mill heads as a base.

I conducted a series of mill tests on these tailings and found cyanidation using a high proportion the slimes from the amalgamation mill were segregated from the cyanide tailings.

CONCLUSIONS AND RECOMMENDATIONS:

With the present price of gold, this property has outstanding possibilities.

1. The lower levels that have not been developed but what drilling and sampling has been done indicate that the gold content is as high or higher than the upper levels and will extend as far.

2. The other gold bearing zones west of the mined vein offer great possibilities and warrant detailed exploration.

3. The so called "diorite zone" would in itself be a prospect worthy of full investigation.

4. The research work I did on the slimes from the stamp mill indicated that less than 50% of the gold had been recovered by amalgamation and I estimate that sufficient gold could be recovered from the slimes to more than cover the cost of the proposed program.

5. The Ontario Department of Mines records show 35,000 tons grading 1.15 ounces per (at present price of gold is over \$600.00 per ounce, this would be \$690.00 per ton) developed and ready for mining.

The possibility of gold recovery from the amalgamation tailings adds a further potential to be considered.

1. That a qualified engineer examine the condition of the stamp mill tailings and carefully estimate the tonnage left.

2. If sufficient tonnage is available the tailings should be systematically sampled under experienced engineering supervision.

3. Should the results obtained by this examination be favourable a small portable mill be leased to treat the tailings. Mills suitable for this work are readily available.

I would also recommend a detailed drilling program to evaluate the gold bearing content of both the parallel vein structure and the Diorite zone, also the north and south extensions of the main vein should be investigated.

The shaft should be dewatered and the underground possibilities be evaluated.

I would estimate the cost of this work to be:

Dewatering shaft	\$50,000.00
Diamond drilling and supervision	<u>34,000.00</u>
Total	\$85,000.00

This anticipated recovery from the tailings should provide the funds for the shaft and drilling programs.

Respectfully submitted,



W.W. Beaton, P. Eng.

WWB:jm

GANANOQUE, ONTARIO.

JULY 3rd, 1980



APPENDIX C

Geophysical Surveys
for
Aubet Resources Inc.

by
Northwest Geophysics Ltd.
March 30, 1983

GEOPHYSICAL SURVEYS
for
AUBET RESOURCES INC.
by
NORTHWEST GEOPHYSICS LTD.

INTRODUCTION: Northwest Geophysics Ltd. was contracted January 5, 1983 to carry out linecutting and conduct geophysical surveys for Aubet Resources Inc.

The area of investigation consisted of 12 patented mining claims numbered: TB 11087, 11088, 11416, 11414, HW 714, 715, 716, B1 151, 152, 153, 154, and 168.

These claims are in the Squaw Lake area, encompass the former St. Anthony Mine and are located on the North Arm of Sturgeon Lake. They are accessible from highway 599 via Sturgeon Lake.

Linecutting began January 29, 1983 and was completed February 4, 1983. Lines were cut at 400' intervals along the baseline (N 30 degrees E) and stations were established every 100' along the section lines (N 60 degrees W).

GEOPHYSICAL SURVEYS: 1. A VLF-EM survey was carried out February 4 to February 9, 1983. The receiving unit was a Geonics EM 16. Readings were taken every 50' along the section lines. All readings were taken facing north. The transmitting station was Cutler Maine, transmitting at a frequency of 17.8 khz. Both inphase and quadrature readings were taken.

The VLF data was plotted in profile form at a scale of 1" equals 200' and 40 degrees. It was also filtered using the Fraser Filter method, plotted at 1" equals 200' and contoured at a 20 degree contour interval.

2. A magnetometer survey was carried out February 4 to 9, 1983 using a GEOMETRICS 316 proton magnetometer.

A base station was established on BL C at 248. The baseline was surveyed and diurnal variations were corrected for by taking repeat readings at the intersection of the baseline and section lines during the survey. The section lines were read recording the total magnetic field at 50' intervals.

The results of the magnetometer survey were plotted at a scale of 1" equals 200' and contoured at an interval of 200 gammas using a datum of 59000 gammas.

SUMMARY OF RESULTS: It must be noted that the direction of the transmitted VLF signal is very nearly coincident with the direction of the survey lines for the VLF survey. This is a common problem in the area because of the geological strike of the rocks in the area and is unavoidable because of the limited number of VLF transmitting stations available.

Throughout the survey area and in the mine-mill area, in particular, there are several garbage dumps, buildings, underground workings, and metal objects that may cause erroneous readings in both the magnetometer and VLF surveys. These areas have been noted on the maps, wherever observed in the field.

CONCLUSIONS: As per our contract a total of 12.0 miles of line were cut and surveyed for Aubet Resources Inc.

This report was written and the data submitted March 25, 1983, by A.J. Lambert, Geological Technician, Northwest Geophysics, Thunder Bay, Ontario.

A.J. LAMBERT
NORTHWEST GEOPHYSICS LTD.

APPENDIX D

Diamond Drill Logs for Holes

SA83-1, SA83-2, SA83-3, SA83-4, SA83-5

Drilled in January, February and March 1983.

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-03-1 LENGTH 416.0'
 LOCATION _____
 LATITUDE 292.0' N DEPARTURE 6.0' W
 ELEVATION Surface AZIMUTH 110° DIP -50°
 STARTED Jan. 23, 1983 FINISHED Jan. 27, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100'	57°				
200'	56°				
300'	54°				
400'	53°				

GA-03-1
 HOLE NO. _____ SHEET NO. 1

REMARKS _____

LOGGED BY J. Hinzler

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	Au			
					FROM	TO	TOTAL		Oz/TON		Oz/TON	
0.0'	14.0'	CASING (overburden to 12.0')										
12.0'	161.2'	Granite - medium grained. Granite is medium gray, with some buff coloured sections. Most of the rock is altered at least partially reflected by a greenish-yellow tint due to alteration mineralogies. Buff feldspar phenocryst (2-4 mm) are the dominant feature. Rock is fairly massive and homogeneous. The granite texture is destroyed in some areas where strong shearing and silification reduce the rock to fine grained dark green material often containing many qtz lattice veins and or quartz blebs (small). Mineralization consists of up to 2% fine grained disseminated pyrite and up to 2% pyrite crystals up to 1 cm. occurring along quartz veins. 12.0'-32.0' - granite is weathered due to penetrating fluids from the overlying tailings pond. Fractures open to surface penetrate 30' or more and are strongly zoned for up to six inches on either side. Granite is dark brown where weathered often marked by a red-brown halo (rim). 33.0'-39.0' dark green mottle or spotting up to 10% of granitic core due to alteration minerals crude mineral alignment (shearing) is present.										
			601		13.5'	15.6'	2.1'		Nil			
			602	Trpy	29.7'	32.2'	2.5'		Nil			
			603		48.2'	50.1'	1.9'		Nil			
			604	Trpy	61.5'	63.9'	2.4'		0.005			
			605		85.5'	87.7'	2.2'		0.001			
			606		88.7'	90.5'	1.8'		Nil			
			607		95.0'	97.7'	2.7'		0.002			
			616	Trpy	112.7'	115.0'	2.3'		Nil			
			608		131.9'	134.7'	2.8'		0.005			
			609		138.3'	141.3'	3.0'		Nil			
			610		141.3'	141.1'	1.8'		Nil			
			611		153.0'	155.6'	2.6'		Nil			
			612		155.6'	158.8'	3.2'		0.002			
			613		158.8'	161.1'	2.3'		0.011			

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-85-1 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-85-1 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			Au ASSAYS			
FROM	TO		NO.	DEPTH FOOT	FOOTAGE FROM TO TOTAL	%	Oz/Ton	Oz/TON	
12.0'	161.2'	continued							
	39.0'-130.0'	massive granite with minor quartz veining $\frac{1}{2}$ - 2" qt. veins make up approximately 5% of the core. Minor shear zones and altered sections from 6" - 3', in length well dispersed throughout.							
	130-161.2	Strongly altered granite green to yellowish with finer grained texture. Very strong shear zone							
	133.8-134.3	dark green fine grained, very soft.							
	130 - 150'	approximately 25-30% of core is quartz both massive and laced.							
	150 - 161.2'	approximately 35-40% of core is quartz.							
161.2'	193.1	Quartz Porphyry (Sheared) medium to dark grey very strongly sheared, almost parallel to core axis (appears almost to be flow banded). Quartz phenocryst-dark gray occur as 1-2 mm. grains in the matrix and 5-10 mm large phenocryst (up to 30%) angular to sub-angular - often broken (brecciated) - matrix flows around these coarse grains.	614		161.1'	163.4'	2.3'	0.001	
			615		175.0'	177.0'	2.0'	Tr	
			617		190.0'	193.0'	3.0'	Nil	
		Other constituents are 1-3 mm yellowish sericite flakes and approximately 1/2% 1-2 mm py. cubes.							

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-1 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-1 SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS				
FROM	TO		NO.	SULPH % ROES	FOOTAGE			%	Oz/Ton	Oz/Ton	Oz/Ton
					FROM	TO	TOTAL				
161.2'	193.1'	continued. The lower 10-15 feet of core is more strongly sheared, rock is pale gray - almost calcareous, large quartz phenocrysts are less frequent and small ones are almost obliterated. Quartz veining within the unit is restricted to one 3" vein. Upper and lower contacts are irregular but fairly sharp. Contact zones were not discernable.									
193.1'	370.0'	Granite Medium Grained similar to 12.0' - 161.2' above. 193.1-235.2 strongly altered & sheared granite green to yellowish green finer textured. Entire section averages 10-15% quartz both massive and laced. Shear brecciation of the granite occurs up to 204' w 222' alteration is greatly reduced. w 219' sphalerite bleb in bull quartz 235.2' - 270.9' medium grained granite with occasional shear zones and minor altered sections w 260' small veinlet of sph 259' - 270.9' shear zone 1 - 5% py avg. 2%	618		193.0'	196.0'	3.0'		Tr		
			619		220.3'	223.3'	3.0'		N11		
			620		228.9'	232.9'	4.0'		0.002		
			621		247.5'	248.8'	1.3'		N11		
			622		262.3'	267.0'	4.7'		0.001		
			623		267.0'	270.6'	3.6'		0.004		
			624		270.6'	274.6'	4.0'		N11		
			625		274.6'	278.9'	4.5'		0.000		
			626		287.0'	290.2'	3.2'		N11		
			627		302.6'	304.3'	1.7'		0.001		
			628		310.8'	313.6'	2.8'		N11		
			629	Trpy	317.7'	319.2'	1.5'		N11		

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-U3-1 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-U3-1 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	Oz/Ton	Oz/Ton	Oz/Ton
					FROM	TO					TOTAL
193.1'	370.0'	continued								
	270.9 - 277.0'	shear zone-quartz laced 60-70% quartz dark green fine textured 1-2% disseminated py tr. sph? galena? minor carbonate.	630	Trpy	319.2'	320.3'	1.1'	Tr		
			631		320.3'	322.4'	2.1'	Nil		
			632		331.3'	335.0'	1.7'	Nil		
	277.0' - 289.6'	altered granite. 10-15% qtz. laced	633		337.0'	338.6'	1.6'	Nil		
			634		342.7'	344.4'	1.7'	Nil		
	289.6' - 370.0'	medium to coarse grained granite upper and lower sections are altered and sheared along 1 -5' sections, randomly, most notably between 319' - 321.6' and 348 - 353.0' below 312' pale gray - white green unsheared except small local shearing at 1-12" quartz veins - 1% diss. biotite.	635		349.0'	350.2'	1.2'	Nil		
			636		350.2'	352.8'	2.6'	NSS		
			637		352.8'	357.0'	4.2'	Nil		
			638		357.0'	360.8'	3.8'	Nil		
			639		369.1'	371.2'	2.1'	Nil		
			640	Trpy	373.2'	375.6'	2.4'	0.001		
			641	Trpy	375.6'	378.0'	2.4'	Nil		
			642	Trpy	378.0'	380.4'	2.4'	Tr		
			643	Trpy	380.4'	383.6'	3.2'	0.001		
			644		383.6'	385.0'	1.4'	Nil		
			645		385.0'	387.2'	2.2'	0.001		
			646	Trpy	387.2'	388.9'	1.7'	0.430		
			647		388.9'	392.0'	3.1'	Tr		
			648	Trpy	392.0'	393.9'	1.9'	Nil		
			649		393.9'	397.0'	3.1'	0.003		
			650		397.0'	399.8'	2.8'	0.005		
			651	Trpy	399.8'	401.5'	1.7'	Nil		
370.0'	416.0'	Granite Coarse Grained Similar to the above but coarse grained - lightly spotted with darker alteration patches, chlorite and biotite. Occasional section with strong shearing and/or alteration accompanied by 10-30% quartz are also present. Up to 1% disseminated pyrite (1-2 mm. grains) is also present. 385' - 390.0' Strongly altered sheared and silicified section, massive quartz vein from 388.1 - 389.0' contains several 1-2 mm sulfide seams up to 2-3% of qtz. zone is mineralized.								

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-03-1 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-03-1 SHEET NO. 5

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			Au ASSAYS				
FROM	TO		NO.	SULPH IDS	FOOTAGE			%	Oz/Ton	Oz/Ton
					FROM	TO	TOTAL			
370.0'	416.0'	continued								
		Occasional minor altered zone above and below this section persist to the end of the hole.	652	Trpy	404.2'	407.0'	2.8'		0.002	
			653		412.5'	416.0'	3.5'		N11	
			654		composite sample				0.00:	
		370' - 402' white-gray, coarse grained granite, 10% qtz. veins from 1" - 18", 1-3% py, locally brecciated, tr. sphalerite at 389'.								
		402' - 412' coarse grained, 1% qtz. stringers, trace pyrite								
		412' - 416' same as above with 15% qtz. stringers, 2-3% pyrite								

JH

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold
 HOLE NO. SA-83-2 LENGTH 407.0'
 LOCATION _____
 LATITUDE 0493N DEPARTURE 0427E
 ELEVATION Surface AZIMUTH 110° DIP -50°
 STARTED Jan. 20, 1903 FINISHED Jan. 30, 1903

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100	56°				
200	55°				
300	55°				
400	54°				

HOLE NO. SA-83-2 SHEET NO. 1

REMARKS _____

LOGGED BY J. Hinzler

FOOTAGE		DESCRIPTION	SAMPLE			Au ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	Oz/Ton	Oz/Ton	Oz/Ton	
					FROM	TO					TOTAL
0	16.0'	Casing (Bedrock at 15.5')									
15.5'	88.0'	GRANITE (Medium Grained) Gray with light yellow-green cast - especially in more altered sections. Dominant feldspars gray-pale white grains. Sections appear spotty where dark grained alteration patches, sericite, mica conglomerate. Spots may be up to 10% of core. Up to 1% py is common with 1-2 mm grains. Surface weathering (leaching) along fractures is common in first twenty feet of core but persists on some fractures to 85 feet or more. Altered zones (yellow-green cast) with associated quartz lacing, strong shearing (brecciated granite) and minor sulfides up to 2%. 36.5-46.8' altered, sheared, less than 2% py 62.0'-67.0' altered, sheared, less than 1% py 79.0'-88.0' medium-strong alteration, shearing 90° to $6/a$ 1-2% py/a some massive quartz veins	655		16.5'	19.1'	2.6'				
			656		21.7'	23.8'	2.1'				
			657	2% py	40.2'	45.0'	4.8'				
			658	1% py	62.8'	67.2'	4.4'				
			659	1% py	80.2'	85.1'	4.9'				
			660	1% py	85.1'	88.9'	2.8'				
88.0'	254.7'	GRANITE (Coarse Grained) Granite light gray some paler sections, extensive areas of spotted granite - due to mica (biotite) sericite knots. Yellow green alteration patches, shearing, etc. as above	661	1% py	101.5'	102.7'	1.2'				0.011
			662	1% py	108.5'	110.0'	1.5'				Tr
			663	1% py	116.7'	118.8'	2.1'				0.001

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. GA-03-2 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

GA-03-2
 HOLE NO. _____ SHEET NO. 2
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	Oz/Ton	Oz/Ton	Oz/Ton
					FROM	TO					TOTAL
88.0'	254.7'	Granite (coarse grained) continued ... Sulfide average less than 1% with some large lumpy (spongy) cubes on bull quartz veins. (i.e. 109.0'x 4" qv) Altered granite with shearing (texture) is significant at the following footages (most sections are qt. laced) 142'-146' massive qtz.veins 134-142 2-3% sulf.70-90% core axis 155'-161' " " " little or no " " 192.5'-193.4' 196.2'-198.5' 206.8'-208.2' some py (tr sph 209.7') 220.3'-227.0' massive qtz. veing 1-29° py 235 - 244' " " qtz. veing 1% py 246' - 254.7' very strong altered and shearing	664	1%py	127.0'	128.4'	1.4'	0.001		
			665	1%py	133.0'	136.4'	2.5'	0.004		
			666	1%py	136.4'	139.7'	3.3'	0.002		
			667		143.5'	145.7'	2.2'	0.006		
			668		155.7'	159.0'	3.3'	Nil		
			669		162.7'	167.0'	4.3'	Tr		
			670	1%py	176.1'	179.3'	3.2'	0.010		
			671	1%py	190.9'	193.3'	2.4'	Tr		
			672	1%py	207.9'	210.2'	2.3'	Nil		
			673	1%py	215.3'	217.7'	2.4'	Tr		
			674	1% py	219.5'	223.0'	3.5'	0.004		
			675	Trpy	224.7'	227.0'	2.3'	Nil		
			676	Trpy	234.6'	235.9'	1.3'	0.002		
			677	1%py	235.9'	238.0'	2.1'	0.003		
			678		238.0'	240.2'	2.2'	Nil		
			679	1% py	240.2'	243.5'	3.3'	0.006		
			680		243.5'	247.8'	4.3'	Nil		
			681		247.8'	252.0'	4.2'	Tr		
			682		252.0'	254.9'	2.9'	Nil		
			683		254.9'	257.8'	2.9'	Tr		
			684		270.1'	272.1'	2.0'	Tr		
			685		289.9'	291.9'	2.0'	Tr		
254.7'	292.2'	QUARTZ PORPHYRY (SHEARED) Dark gray, fine grained matrix, very highly sheared at 5-10° to core axis. Matrix quartz phenos are dark - 1-2 mm with 10-30% large angular qtz. phenos up to 1 cm. (often broken). contact with granite is sharp at top. Lower contact has 6" quartz vein. Occasional minor disseminated pyrite								

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-83-2 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-2 SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL	%	Oz/Ton	Oz/Ton		
292.2'	373.0'	<p>GRANITE (Course Grained)</p> <p>Similar to 88.0'-254.7'. Major sections of alteration, shearing, quartz lacing as follows:</p> <p>292.2-303' strong altered shearing 310' -311.8' medium altered shearing 333.5'-334.1' 343' - 346.5' 353'.6' - 354.2' 354.8' - 356.7' 360' - 373' moderate altered 40-50% qtz. 14% py</p> <p>Intermittent qtz. veining with large 1 cm py cubes @ 329.0', 350.1'</p>	606		291.9'	290.8'	1.9'	0.013		
			607		293.8'	296.8'	2.0'	Tr		
			608		296.8'	300.5'	3.7'	Tr		
			689		309.9'	313.9'	4.0'	Tr		
			690		315.9'	317.0'	3.1'	0.002		
			691	1% py	327.8'	331.3'	3.5'	Tr		
			692		334.8'	337.0'	2.2'	0.001		
			693		343.8'	346.6'	2.8'	0.008		
			694		349.2'	351.0'	1.8'	0.001		
			695		353.6'	357.1'	3.5'	0.002		
			696	2% py	357.1'	362.4'	5.3'	0.013		
			697	V	0	1 0				
			698		362.4'	367.0'	4.6'	Nil		
			699		367.0'	371.3'	4.3'	Nil		
373.0'	407.0'		<p>GRANITE (Medium Grained)</p> <p>Similar to 15.5' - 88.0' slight alteration still present, much finer grained than above. Section is much lighter coloured, less altered, with depth alteration spots are rare. Py occurs as large cubes both in qv, granite and also disseminated very noticeable 1-2%. Traces of sphalerite, carbonate crystals not uncommon.</p> <p>Significant alteration, shearing and quartz lacing is present at 383.2' - 386.0' medium alteration 2% py. 398.0' - 402.0' weak alteration</p> <p>E. O. H.</p>	700		371.3'	373.4'	2.1'	0.001	
				701		373.4'	376.1'	2.7'	Nil	
				702		376.1'	379.2'	3.1'	Nil	
				703		383.2'	386.5'	3.3'	0.035	
		704			386.5'	390.5'	4.0'	Nil		
		705		1% py	390.5'	395.6'	5.1'	Tr		
		706		2% py	395.6'	398.0'	2.4'	0.002		
		707		1% py	398.0'	400.4'	2.4'	Tr		
		708			400.4'	404.4'	4.0'	0.002		
		709			404.4'	407.0'	2.6'	Tr		
		710		C U	M P O S I T E			0.002		
		711			379.2'	383.2'	4.0'	Tr		

LANGRAGES - TOMONIC - 366-104

J. H.

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-3 LENGTH 1100.0'
 LOCATION _____
 LATITUDE 3 & 30'S DEPARTURE 3 + 57 W
 ELEVATION Surface AZIMUTH 102° DIP -65°
 STARTED Feb. 3, 1983 FINISHED Feb. 9, 1983

FOOTAGE	DIP	CUMULATIVE AZIMUTH	DIP	CUMULATIVE FOOTAGE	DIP	CUMULATIVE AZIMUTH
18'	-68°	500'	64°	900'	63°	
100'	-66½°	600'	64°	1000'	62°	
200'	-66°	700'	65°	1100'	62°	
300'	-66½°	800'	64°			
400'	-65°					

HOLE NO. SA-83-3 SHEET NO. 1

REMARKS _____

LOGGED BY J. Hinzler

FOOTAGE		DESCRIPTION	SAMPLE				ANALYSES					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	Oz/Ton	Oz/Ton	Oz/Ton	
					FROM	TO	TOTAL					
0	18.0'	CASING (Bedrock at 15.5')										
15.5'	69.0'	GRAY GRANITE										
		15.5'-33.0' Tan-buff siliceous rock with no discernable grain size or texture (felsite). With depth texture becomes sugary and 2-3 mm. grains become visible as mafic component of rock gradually increases. Dark 1 mm. fractures healed with qtz., carb., and up to 1% py abound from 19-28' at 45° to c.a. Occasional ¼" qtz. vein at 80° to c.a.	712	1.2% py	25.0'	28.0'	2.2'		0.008			
		33.0'-56.0' Transition (gradual) from Tan to brown-gray with minor biotite - as mafic content of rock increases resembling granite, locally carbonitized qtz. veins at -36-37' (20% carb) at 10° to c.a. shear-breccia-39.2-42.0' contains 1-2% diss. py. 46-48.5' contains - 6" quartz vein, 2-3% py, chlorite	713	"	39.8'	42.5'	2.7'		0.003			
		56.0'-69.0' medium grained dark granitic texture (blue-gray) with little or no sulfides. Locally sheared finer grained sections. sheer breccia-60-61' Transitional lower contact.	714	1% py	55.0'	58.0'	3.0'		0.001			
69.0'	171.8'	Altered Felsic-Mafic Greenstone with minor Granite	715	1% py	79.0'	81.0'	2.0'		N11			
		Identification of component rock types is difficult approximately 60% are mafic volcanics 30% are felsic volcanics and clastics and 10% are granitic.	716	Trpy	106.0'	108.0'	2.0'		N11			
			717	1% py	115.0'	118.0'	2.2'		N11			
			718	1-2% py	131.9'	134.9'	3.0'		N11			

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-3 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS			
FROM	TO		NO.	% SIL PH IDES	FOOTAGE		%	oz/Ton	oz/Ton	oz/Ton
					FROM	TO					TOTAL
69.0'	171.8'	continued...								
	69.0'-79.0'	Fine grained .5 mm. equigranular homogeneous sandy gray coloured rock. Upper few feet are transitional. Unit is possibly bedded as minor contacts at 30° to core axis are seen(carbonatized)	719		134.9'	136.6'	1.7'			Nil
			720	Trpy	138.0'	139.3'	1.3'			Nil
	79.0'-81.5'	coarse grained-dark-blue gray granite with joint 4-6" fine grained margins	721		140.7'	142.7'	2.0'			Nil
	81.5'-86.5'	same as 69.0' - 79.0'	722	2%py	145.0'	148.0'	3.0'			Tr
	86.5'-88.7'	same as 79.0' - 81.5' granitic	723	2%py	148.0'	151.2'	2.2'			0.004
	88.7'-90.5'	same as 69.0' - 79.0'	724	1-2% py	151.2'	153.6'	2.4'			0.003
	90.5'-93.5'	same as 79.0' - 81.5' granitic								
	93.5'-109.5'	aphanitic-fine grained brown-gray with 1-2% py at 107.5' at internal contact								
	109.5'-113.0'	same as 79.0' - 81.5 granitic	725	1%py	164.0'	166.0'	2.0'			0.002
	113.0'-136.5'	fine grained brown to greenish gray - resembling greywacke-carbonate rich and very highly sheared locally 113-115-greenish-fault gauge material- chloritic mud 118-120 - shear-breccia 127-130.3 - resembles section 15.5 - 33.0'								
	136.5'-138.5'	Mafic Dike-fine grained black-strongly foliated at 20° to c-axis. Sinuous upper contact over 1.5' - sharp lower contact at 80° to c.o. with 2" chilled margin.								

LANGRISHES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-3 SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ANALYSES			
FROM	TO		NO.	FOOTAGE		%	Oz/Ton	Oz/Ton	Oz/Ton
				FROM	TO					TOTAL
69.0'	171.8'	continued ...							
	138.5'-144.8'	Andesite Tuff-dark green highly sheared chloritised and carbonitised - extremely fine grained 2-5% disseminated py for 6" near dike contact							
	144.8'-166.7'	predominantly felsic-tuff or intrusive							
	144.8'-151.0'	similar to 113.0-136.5 - brown grey rich in carb and strongly sericitic							
	151.0'-166.7'	highly sheared-buff-greenish-gray fine grained 2-5% diss.py - local shear-bx (xtal tuff)							
	166.7'-171.8'	Mafic dike same as 136.5'-138.5' 1" bleached chilled margins - upper contact at 80° to core axis - lower contact at 70° to core axis							
		The entire unit is strongly sheared and carbonitised except for the lower felsic unit 144.5 - 166.7 - which may be an x-tal tuff or possibly a very highly sheared quartz porphyry.							
171.8'	283.5'	DARK GRANITE Biotite Rich Medium to coarse grained dark blue-gray colour, containing many strongly sheared - shear-bx sections, alteration zones. Silicification (removal of mafics) minor carbonitization and pyrite paint on shear slips.							

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-03-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-03-3 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ANALYSES				
FROM	TO		NO.	SI PH %S	FOOTAGE FROM TO TOTAL	%	OZ/TON	OZ/TON		
171.8'	283.5'	continued... Alteration is characterized by 1) finer texture and shear-br 2) loss of mafics to green-brown-gray colour 3) almost aphanitic texture 4) increased loss of mafics-pale gray with appearance of pink patches (K-spar) strong silicification, carbonatization and sulfide enrichment. 192.-194' - 4th stage altr. (2½" py seams 3-5% py) 209.8'-213.5' - 2nd stage 5% qtz. laced-py point 216.-218' - 1st stage 3-5% qtz. laced 1% py 218'-273' - Numerous 4-12" zones of 2nd stage altered with central quartz veins and 1-2% py (qt. vein at 30° loc-a) 273'-283.5' - entire section stage 2 alteration 282-283.5' 10-15% qtz. laced and 1% py	726 727 728 729 730 731 732 733	2%py 2-7% py	186.0' 193.1' 195.4' 199.4' 210.6' 239.1' 276.5' 280.8'	189.0' 195.4' 198.0' 204.0' 214.0' 240.9' 200.8' 283.9'	3.0' 2.3' 2.6' 5.4' 3.4' 1.8' 4.3' 3.1'	Nil Nil Nil Tr Nil Nil Tr 0.003		
283.5'	295.3'	QUARTZ PORPHYRY (Sheared) Mid gray highly sheared matrix with minor carbonate. Quartz phenocrysts are dark gray 3.4 mm.-1 cm. often broken sub-rounded to angular making up 20% of core. Occasional white quartz pheno- crysts and many dark shards 3-8 mm. long 1-2 mm. thick are composed of dark (black) quartz with trace up to ½% py.	734 735		283.9' 294.3'	285.5' 295.6'	1.6' 1.3'	Nil Nil		

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-3 SHEET NO. 5

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ANALYSES		
FROM	TO		NO.	SIZE IN INCHES	FOOTAGE FROM TO TOTAL	%	Oz/Ton	Oz/Ton
283.5'	295.5'	continued... Many 1-2mm. quartz phenocryst are also found in the matrix. Occasional 1/4"-1" qtz. carb veins cross at 5-30° to c-axis - upper contact sharp - lower, sharp at 70% c. a.						
295.5'	297.0'	Altered Sheared Granite	736		295.6'	297.5'	1.9'	Nil
297.0'	301.0'	ANDESITE DIKE Fine grained, dark green, chloritized, faint granular pepper texture, occasional qtz. -carb altered section, similar to (138.5-144.0'). 1" quartz vein and 1% py at upper contact.	737		297.5'	299.3'	1.8'	Nil
301.8'	347.5'	GRANITE ? (Altered Felsic Rock) Upper part of this unit contains many granitic looking dark blue gray sections with altered lighter gray sections similar to 171.8'-283.5'. If granitic, this section is much more strongly altered than granite above. 301.8-303.2-granitic 303.2-304.3 - resembles a felsic tuff-sheared. 304.3-333.0'-granite with altered zones 6"-1' usually 333.0'-347.5'-Schistose light gray strongly sheared mafic minerals are foliated. 343.4-347.5' - silicified qtz. veining, 2-3% py, carb tiny 1 mm. healed seams (chlorite) below 346.4-foliation almost gneissic at 10° to c.o. 5-10% py to po cpy.	738	F py	316.8'	319.2'	2.4'	Tr
			739	F py	341.5'	344.0'	2.5'	0.001
			740	1-2% pypo	344.0'	346.4'	2.4'	0.003
			741	5-7% py	346.4'	347.8'	1.4'	0.009

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-85-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-85-3 SHEET NO. 6

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS			
FROM	TO		NO.	% SILICIDES	FOOTAGE		%	Uz/Ton	oz/Ton	oz/Ton
					FROM	TO					TOTAL
347.5'	357.0'	ANDESITE DIKE Very fine grained highly sheared near contacts, 1% diss. py. Numerous tiny carb. and occasional qtz. veins at random angles. General pepper texture similar to 297.0 - 301.8'. Contacts at (45° to c. axis upper) (60° lower), 1-3% py on lower contact.	742	1%py	347.0'	350.2'	2.4'	0.000		
			743		356.1'	357.6'	1.5'	Nil		
357.0'	715.0'	DIORITE ZONE The entire section is composed of approximately 60% diorite and 40% which consists of altered diorite? and or biotite granite, felsic dikes and shrd? granite. 357.0'-461.0' Medium grained spottly texture 2-4 mm grain size white felsepar-dark mafic minerals. Trace pyrite - many altered sections centred on quartz veins or shr-breccia. Altered zones usually 6"-2' contain sil.-carb-2-3% py (dark quartz silicification) give core a dark blue gray appearance-resembling granite. -no clear contacts between sub units are discernable therefore, it may be possible that some altered granitic sections are diorite.	744		369.1'	373.0'	3.9'	Nil		
			745		373.0'	374.7'	1.7'	Nil		
			746		374.4'	376.7'	2.0'	Nil		
			747		389.9'	392.5'	2.6'	0.001		
			748		403.6'	405.5'	1.9'	0.001		
			749		433.2'	437.6'	4.4'	0.001		
			750		454.8'	457.1'	2.3'	Nil		
			751		459.8'	460.6'	1.8'	Nil		

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-03-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-03-3 SHEET NO. 7

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS			
FROM	TO		NO.	DIP AZMUTH	FOOTAGE		%	Oz/Ton	Oz/Ton	Oz/Ton
					FROM	TO					TOTAL
357.0'	715.0'	continued... 357.0'-461.0' continued Tiny 1/8 - 1/4" carb and qtz. veins form a hairline network at random angles. 429.4-437.5' dark blue gray-granitic looking section qtz. carb. veins-1.2% py centred on shr-bx zone at 434.7' 449.4'-455.3' as above-major carb vein 1' @ 453 distinct foliation at 20° to c.a. near base. 455.3'-461.0' Transition zone-extremely sheared. 59 to core axis- 1% diss. py carbonate abundant - pale gray colour 461.0'-540.0' Zone of major shearing-silicification and alteration. Original rock types almost completely obscured. Only Tr pyrite. 461.0-468.0'-shearing most intense-rock is a schist. May be a sheared qtz. pophryry? 468.0'-480.0'-schistose 30-40% .1-1 mm. qtz. eyes along foliation (probably sheared qtz. vein sketched 30-40 times). gneissic texture last two feet. 478.0'-480'-resembles 455.3-461. 488.0'-493.0' - similar to 449.4'-455.3' strongly silicified-dark gray intrusive texture-5-10% qtz. lacing 493.0'-501.8'-very siliceous fine grained schistose 501.8'-509.5'-cross between altered diorite and biotite granite 509.5-517.0' Diorite 517.0'-540.0' altered diorite or altered granite								
			752	Trpy	467.0'	470.3'	2.5'	0.004		
			753	"	474.8'	477.0'	2.2'	Nil		
			754	"	488.7'	494.0'	5.3'	Nil		
			755	"	494.0'	497.6'	3.6'	Tr		
			756	"	504.4'	508.0'	3.6'	Nil		
			757	"	512.7'	514.9'	2.2'	Nil		
			758	"	525.5'	528.0'	2.5'	0.001		
			759	"	537.5'	540.1'	2.6'	Nil		
			760	"	584.0'	588.5'	4.5'	Nil		
			761	"	595.1'	599.5'	4.4'	0.001		

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. _____ LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-13-3 SHEET NO. 8
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ANALYSES				
FROM	TO		NO.	SI. PT. / ORES	FOOTAGE		%	Oz/Ton	Oz/Ton	Oz/Ton	
					FROM	TO	TOTAL				
557.0'	715.0'	continued									
		540.0'-583.0' - Diorite									
		583.0'-607.5' - Combination of sheared diorite blue-gray granite and gray granite centred on a felsic shear zone strong chlorite up to 5% carb.									
		607.5'-615.0' - Diorite	762	1%py	616.4'	619.9'	3.5'		Nil		
		615.0- 532.0' - Siliceous - sheared fine grained gray rock with local faint granitic texture at centre of unit. 5-10% $\frac{1}{4}$ " curb veins tr py.	763	py	637.8'	641.9'	4.1'		Nil		
		632.0'-651.0' - Diorite, many minor altered sections.	764	"	644.5'	646.5'	2.0'		Nil		
		651.0'-668.0' - Similar to 615-632, alternating gray fine grained curb rich sections and darker granitic looking sections.	765	"	662.0'	664.1'	2.1'		Nil		
		660.7-668.0 - shear-breccia.	766	"	668.0'	669.6'	1.6'		Nil		
		668.0'-688.7' Strongly silicified- cherty looking quartz laced section. 2-3% pyrite locally	767	2%	669.6'	671.8'	2.2'		Nil		
		671-675-predominantly shr-br'd dark granitic texture appearing below 675.0'		pypo							
		678.6'-679.4' Bull qtz. vein at 30° to c-a. 3% py some carb	768	py	671.8'	675.2'	3.4'		Nil		
		681.6-688.7 - many dark qtz. veins with 2-3% py,po-and granitic texture	769	py	675.2'	678.0'	2.8'		Nil		
		688.7'-697.6 - Diorite		po							
		697.6'-702.8'- Sheared dark gray granitic texture, locally carbonated	770	py	678.0'	680.0'	2.0'		Nil		
		702.8'-715.0'- Predominantly Diorite	771	1-2%	680.0'	683.7'	3.7'		0.002		
			772	py po	683.7'	685.9'	2.0'		0.003		
			773	1-2% py	697.6'	702.8'	5.2'		Nil		

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-03-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-03-3 SHEET NO. 9

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ANALYSES			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	1/2" TO 1"	OZ/TON	OZ/TON
					FROM	TO					TOTAL
715.0'	745.4'	<p>GRANITE? (ALTERED Felsic Rock)</p> <p>Very similar to 301.8'-347.5'. Darker granite material dominates twenty feet interrupted by many silicified-shr-bx'd. sections of 6"-1' elevation. The lower 10 feet appear andesitic in part, carb. up to 5%. Lower contact steep at 40° to c.a. with an 18" buff coloured but chloritic section.</p>	774	py	716.5'	719.0'	2.5'	Tr		
			775		742.2'	744.5'	2.3'	Tr		
			776	py	744.5'	746.9'	2.4'	Nil		
745.4'	1108.0'	<p>BIOTITE GRANITE</p> <p>Medium to coarse grained dark bluish-gray with approximately 1% diss. pyrite, numerous local alteration patches and shear-bx'd. sections. Upper 100' of unit is tan coloured zone. Several major quartz-vein and shear zones occur in the lower 200 feet. Local sulfide content within these major qtz.-shear zones may reach 5-10% including py, po, tr cpy, sph and galena. Chlorite development is abundant with little or no carb but extensive silicification.</p> <p>745.4'-839.7'- Transitional contact zone whitish to buff-hard siliceous lightly foliated and cherty in appearance (possible felsite). By 775.0' slight darkening with pale-yellow-green (alteration) colour mafic content gradually increasing between 830-839.7 unit grades into granitic dark rock.</p> <p>Many strong shr-bx sections and chlorite stringers and 2-3% py and po are common. (Tr sph & 757).</p>	777	1% py	752.4'	754.9'	2.5'	Nil		
			778	1% py	750.8'	762.0'	3.2'	Nil		
			779	1-2% py po	762.0'	765.7'	3.7'	Nil		
			780	"	765.7'	768.0'	2.5'	Nil		
			781	2% po	768.0'	771.2'	3.2'	Nil		
			782	1-2% py po	771.2'	773.6'	2.4'	0.080		
			783	1% py po	773.6'	777.0'	3.4'	Nil		
			785	"	788.6'	794.0'	5.4'	0.002		
			786	"	794.0'	798.0'	4.0'	Nil		
			787	"	798.0'	801.1'	3.1'	Nil		
			788	1% py	806.0'	811.5'	5.5'	Nil		
			789	2-3% po py	811.5'	815.3'	3.8'	Nil		
			790	"	815.3'	819.8'	4.5'	Nil		
			791	5% po	819.8'	823.6'	3.8'	Nil		
			792	3%	823.6'	826.7'	3.1'	Nil		
			793	1% po py	826.7'	830.5'	3.6'	Nil		

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-3 SHEET NO. 10

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ANALYSES				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	Oz/Ton	Oz/TON		
					FROM	TO	TOTAL				
745.4'	1108.0'	continued...									
		765-768.4 - shr-bx 3-5% py & po	791	5%po	819.8'	823.6'	3.8'		N11		
		771.3-773.6- " " 3-5% py & po	792	3%	823.6'	826.7'	3.1'		N11		
		776.7-778.8 shr-bx		popy							
		800-830'- qtz. lacing 5-10%, 5% py.po diss. & in qv.	793	1%	826.7'	830.5'	3.6'		N11		
		805- shr-bx		popy							
		814.5' gray q.v. 1-2" 20% po to carb.	794	1%py	846.8'	851.6'	4.8'		0.017		
		818.2 several 1-2 mm py-po seams		po							
		820.0' 2" q.v. 50% po		po							
		821.0'-824.0 - 5-10% po & py	795	Trpy	851.6'	855.1'	4.5'		0.004		
		825-826 - qtz. vein breccia 5% po		po							
		839.7'-1108.0' - Dark bluish-gray coarse grained granite, 1-2% diss. sulfides. Many altered sections. Alteration consist of 1) shear-bx zones, 2) bleaching (removal of mafics)-addition of yellow-green tint. 3) bluish or white q.v. at centre 4) po-py diss. and on veins-some chlorite. (average 6"-1' con sections)	796	Trpypo	860.5'	862.2'	1.7'		1		
		860-863-Shr-bx 10% qtz.lase Trpo	797	"	870.0'	873.5'	3.5'		N11		
		894.3-897.6-Shr-bx 10% qtz.lase 1-2% po	798	Trpypo	879.3'	882.4'	3.1'		N11		
		903-905.2 -Shr. 1-2 mm. py-po seams at 10° lacing.	799	"	886.4'	889.5'	3.1'		N11		
		907.6-910.7-2-3% po,py tr cpy	800	2%popy	893.1'	895.9'	2.8'		0.001		
		911.4-912.9- shr-bx qtz-laced 5-10% - 2" Bull q.v. at 30% c-o. - chlorite seam 1/8 x 1 1/2" Trpypo	801	"	895.9'	892.0'	5.1'		Tr		
			802	"	907.5'	910.6'	3.1'		0.001		
			803	"	915.6'	919.0'	3.4'		0.021		
			804	2-3% py po	924.1'	927.5'	3.4'		0.003		
			805	2-3% py po	927.6'	931.0'	3.5'		0.001		
			806	1-2% py po	931.0'	935.0'	4.0'		N11		

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-83-5 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-5 SHEET NO. 11

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ANALYSES					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	Oz/Ton	Oz/Ton	Oz/Ton	
					FROM	TO	TOTAL					
745.4'	1108.0'	continued 839.7'-1108.0' cont'd.										
		915-916, 920-921 q.v. py, po	807	rpy	935.0'	939.0'	4.0'		0.007			
			808	"	939.0'	944.2'	5.2'		0.002			
		<u>924.5-969.4</u> 224.5'-930.4' 50-60% qtz. veins 3% local chlorite major qtz. seams dendritic pattern 1% po & py Tr cpy vein zone	809	1-2%	944.2'	948.0'	3.8'		0.015			
		<u>935.6-938.2'</u> Bull quartz-vein	810	rpy	948.0'	951.8'	3.8'		N11			
		<u>939.7-943.3</u> Bull " "	811	5%py	951.0'	953.8'	2.0'		0.370			
		<u>943.3-947.2'</u> 50% qtz. Tr py Chlorite	812	1%	953.8'	958.0'	4.2'		Tr			
		<u>950.1-953.5'</u> Bull quartz										
		<u>951.6-953.4</u> 15% py	813	1%	950.0'	962.8'	4.8'		0.001			
		<u>965-969.4</u> Qtz. laced 60% qtz. 3.5% py.										
		<u>969.4-978</u> 10% qtz. laced - many small shr-bx zones	814	1%	962.8'	966.0'	3.2'		0.002			
		<u>985.2-987</u> -Shr-bx-5% qtz. laced Trace galena										
		<u>989-990.2</u> shr-bx - altr. Chl-py on shear slips	815	1%	966.0'	969.3'	3.3'		0.002			
		<u>992-999.5</u> shr-bx 3-4% py po tr copy chl.										
		<u>1005-1017.8'</u> 1005-1008 " " up to 5% py po diss. 8 on q.v.	816	1-2%	969.3'	974.8'	5.5'		0.002			
		Qtz-laced silicified -best mineralized zone.	817	1-2%	974.8'	979.5'	4.7'		N11			
		<u>1010.5-1014.5'</u> shr-bx 65% qtz. laced and (1.2' qtz. vein at 10° to c.axis with 30% py 3% Chl. Tr po)	818	1-2%	979.5'	984.5'	5.0'		Tr			
		<u>1017.2-1017.8'</u> - 4-5" q.v. 15-20% po 5% py Tr chl.	819	1-2%	984.5'	987.3'	2.8'		0.006			
		<u>1021.9-1022.8</u> - Altered 1 1/2" qv. T-py po chl.										
		<u>1026-1065.0'</u> -Biotite-chlorite-granite, no shear-bx zones-some sections of 4-5" bull qtz.veins with Tr py po chl(1031-1033,1057-1060)	820	rpy	988.2'	1000.3'	2.1'		0.001			

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-03-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-03-3 SHEET NO. 12

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS		
FROM	TO		NO.	S. M. I. S.	FOOTAGE		%	Oz/Ton	Oz/Ton
					FROM	TO				TOTAL
745.4	1108.0	continued							
		839.7'-1108.0' continued	821	tryp	1004.7	1008.0	3.3'	0.003	
		1065-1108.0' Biotite-chlorite altered granite with many local shear-bx sections and 4-6" q.v. with up to 2% py & po Tr Chl.	822	"	1008.0	1012.5	4.5'	0.042	
		1084.7' - 1087' altered 1' shr-bx 5-10% qtz. laced 1% po py	823	% py	1012.5	1014.6	2.1'	0.140	
		1104.3'-1106' oltrd-3-4" shr-bx 6" q.v. white 1% py chl.	824	2-3%	1014.6	1018.0	3.4'	Nil	
		1108.0' E.O.H.	825	pypo 1-2%	1018.0	1021.3	3.3'	0.003	
			826	1% popy	1021.3	1025.7	4.4'	Nil	
			827	pypo	1025.7	1030.5	4.8'	Nil	
			828	1-2%	1030.5	1033.3	2.8'	Nil	
			829	2%	1033.3	1030.0	4.7'	Nil	
			830	1% popy	1030.0	1041.0	3.0'	Nil	
			831	2% popy	1047.0	1050.7	3.7'	Tr	
			832	"	1056.8	1060.6	3.8'	Nil	
			833	"	1070.9	1074.5	3.6'	0.001	
			834	% "	1078.4	1082.2	3.8'	Nil	
			835	"	1082.2	1087.2	5.0'	Tr	
			836	"	1093.5	1098.0	4.5'	Nil	
			837	2-3%	1098.0	1102.9	4.9'	Nil	
			838	pypo	1102.9	1106.3	3.0'	Nil	
			839	tryp	1106.3	1108.0	1.7'	Nil	
			840	C O M P O S I T E				0.005	

JK

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-4 LENGTH 1248.0'
 LOCATION _____
 LATITUDE 5452 S DEPARTURE 370 W
 ELEVATION Surface AZIMUTH 102° DIP -65°
 STARTED Feb. 13/83 FINISHED Feb. 20/83

FOOTAGE	DIP	ANALYSES	Dip	FOOTAGE	DIP
100	65°	500	64°	300	65°
200	66°	600	65°	1000	65°
300	66°	700	65°	1100	62°
400	65½°	800	65°	1200	61°

HOLE NO. SA-83-4 SHEET NO. 1

REMARKS _____

LOGGED BY J. Hinzer

FOOTAGE		DESCRIPTION	SAMPLE				Au A.B.S.A.Y.S		
FROM	TO		NO.	SIL PH IDES	FOOTAGE		%	Oz/Ton	Oz/Ton
					FROM	TO				TOTAL
0	8.0'	CASING (Bedrock badly broken around 5-6' no core recovery)							
8.0'	19.0'	Altered Granite? (Chloritized Felsic Volcanic?) Strongly altered, pale gray, silicified, locally chloritized locally brecciated with qtz. lacing 10-20% of core. Irregular fractures 1 mm-are chlorite filled. 2-3% diss. py throughout.	845	1%po py	0.7	11.4	2.7'	Nil	
19.0'	21.0'	.....mafic Dike Dark gray-green fine grained silicified unit. Qtz. veining at both ends, with 3-4% diss. py	846	1%po py	20.0'	24.0'	4.0'	Tr	
21.0'	23.0'	same as 8.0'-19.0' altered granite?	847	2-3% py	24.0'	28.0'	4.0'	Nil	
23.0'	25.7'	same as 19.0'-21.0' mafic dike qtz. veins at contacts 6-8", 10° to c. axis at top, 55° to c. axis at base.	848	4%py po	28.0'	31.9'	3.9'	Tr	
25.7'	58.0'	similar 8.0'-19.0' Altered Granite? Medium gray intrusive texture, chlorite segregation along shears at 10-20° to core axis, 2-3% py in top 8' 1% for remainder. 45-47.0' shr.-bx.	849	2-3% popy	57.6'	61.5'	3.9'	Tr	
58.0'	82.0'	GRANITE (Border Phase) Buff to ebony, granular medium grain texture, some local faint pink (K-spar) patches. Very low (% leached)-Fe-Mg minerals. Alteration (yellow-green) quartz lacing (silification) and brecciation locally present. Up to 2% sulfides py. 58-6)-contact zone- 3-5% py,sericite, K-spar chl. & carb. veinlets 74-82 - lower contact zone occasional shr-bx, altr.	850	1-2% py	61.5'	66.3'	4.8'	Nil	
			851	"	66.3'	72.0'	5.7'	0.002	
			852	1%py	80.9'	82.2'	1.3'	Nil	

LANGRANGES - TORONTO - 386-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-03-4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-03-4 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ANALYSES						
FROM	TO		NO.	% CH. IDES	FOOTAGE		%	Oz/Tot	Oz/TON	Oz/TON			
					FROM	TO					TOTAL		
82.0'	102.0'	GREENSTONE ANDESITE Dark green, chloritic, very strongly shrd. at 0-5% to core axis. Shearing has imparted a gneissic bonding dark chloritic mafic bands and white qtz. rich bands(carb. & fel sp.) Silicified, carbonated. Qtz. veining at 10° to core axis. Trace pyrite Lower contact at 10-15° to core axis.	853	1%py	96.2'	98.0'	1.8'						
102.0'	112.5'	Altered Granite? (Felsic Tuff)? Similar to 8.0-19.0, 27.5-58.0', 1-2% diss. py.(po)	854	1-2% py	103.3'	106.1'	2.8'						
112.5'	115.0'		855	1%py	112.5'	115.9'	3.4'						
115.0'	376.3'	GRANITE (Border Phase) Similar to 58.0-82.0' Light gray, to buff to ebony colour very gradually assuming increasingly darker colour (i.e. mafic content) Local brecciation, shearing, alteration throughout. Chlorite, sericite (muscovite) and diss. py & po 1-3% throughout. 128-156 Silicified 15-20% qtz. lacing 2-3% py(128-140) 140-154 60-70% qtz. laced. 175-185' k-spar patches(several), minor chlorite, carb. 198.0'-222' 20-25% qtz. lacing, dendritic chlorite (6") 205-206 1-2% py up to 5% locally. 0" q.v. at 213, 218, 220 light gray, 1-2% py	856	1%py	115.9'	120.3'	4.4'						
			857	2%py	133.0'	128.0'	4.4'						
			858	1-2%py	138.0'	143.4'	5.4'						
			859	40py	153.0'	156.7'	2.9'						
			860	1-2%py	174.2'	178.0'	3.8'						
			861	1%py	181.6'	184.9'	3.3'						
			862	1%py	188.0'	190.0'	2.0'						
			863	1-2%py	198.5'	202.6'	4.1'						
			864	"	202.6'	208.0'	5.4'						
			865	"	212.7'	214.7'	2.0'						
			866	1%py	216.5'	222.0'	5.5'						

ANGARQUES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-83-4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-4 SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			Au ASSAYS		
FROM	TO		NO.	SI-MIDES	FOOTAGE FROM TO TOTAL	%	Oz/Ton	Oz/Ton
113.0'	376.3'	continued...						
		243-205' - pale, creamy colour, yellowish tinge below 256.0', 10-7.5% qtz. lacing throughout	067	1%py	225.9'	220.0	2.1'	0.001
		250-252 - 5% py	068	-2%py	240.0'	252.0	4.0'	0.005
		257-258 - qtz. vein - 5% py	069	1%py	256.3'	259.6	3.3'	Nil
		262-263 - " " - 2-3% py.chl. } qtz. veins gray qtz.	070	"	259.6'	263.6	4.0'	0.003
			071	"	274.3'	270.0	3.7'	0.001
		205-376.3' - mixture of pale-cream to yellow green and dark chlorite-biotite granite.	072	"	294.3'	290.0	3.7'	0.002
		Average 1-2% diss. py. also 10% qtz. lacing throughout-at 60-80° to core axis.	073	"	290.0'	301.5	3.5'	0.003
		305-306 - buff-cream colour	074	1-2% py	313.0'	317.0	4.0'	0.003
		314-315 " " "	075	"py	323.3'	327.1	3.0'	0.007
		321-325 - y-green altr. 323-324-30% qtz.	076	1%py	339.8'	344.2	4.4'	0.005
		327-330 - y-green " 15% qtz.	077	"	361.2'	364.2	3.0'	Nil
		352-360.5 strongly altered.	078	"	364.2'	366.2	2.0'	Nil
		362.0-362.4 - chlorite-to (c zone-soft) extremely shrd (fault gauge).	079	"	375.3'	378.0	2.7'	Nil
		632.4-365.0 - fine grained strongly altered greenish. sharp contact at 40° to c-axis - 2% py at contact.						
376.3'	383.5'	QUARTZ PUPHYRY (SHEARED) Similar to unit described in dd holes #1,2,3. Medium gray with large up to 1 cm. qtz. phenocrysts = (darks, fractured up to 30% of rock). Both contacts sharp at 75° to c. axis with 1" q.v. on lower contact. 382.0-382.5' granite inclusion	880		381.1'	384.4'	3.3'	Nil

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-03-4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-03-4 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ANALYSES				
FROM	TO		NO.	SILICIES	FROM	TO	TOTAL	%	Oz/Ton	Oz/Ton	Oz/Ton
303.5'	1240.0'	<p>GRANITE</p> <p>Medium to coarse grained gray to greenish gray granitic rock. Biotite and chlorite provides darker colour in sections alternating with light gray and altered yellow-green sections. Upper 200-300' are pale gray to cream coloured with occasional pink sections. Alteration and shearing is concentrated in narrow 10-50' zones throughout. Quartz veining of 3-6" bull qtz. and qtz. lacing up to 40-50% of core over narrow 5-50' sections is not uncommon.</p> <p>Mineralization 3-5% py & po tr cpy is common in the pale pink zone. Darker chloritic section averages 1-2% py po with local sph, galena cpy. Zones of intense shearing carry up to 5-10% py & po over 1-3' widths.</p> <p>Silicification and chloritization is especially prominent from 900-1100 feet.</p> <p>383.5'-760.0' Predominantly pale gray, whitish or pinkish with minor local dark green section 10-30' especially near the base of the section. 3-5% py & po common (tr qv. occasionally) Local silicification.</p> <p>309.5-397 - Pale cream strongly bleached.</p> <p>397-422 - 5-10% qtz. lacing, rapidly diminishing below</p> <p>422-448 - pale gray-minor chl-biotite dark green sections 2% diss. sulfide.</p> <p>448-458 - pinkish tinge 2-3% diss. py</p> <p>463-468 - dark green - chloritized 5-10% py common 3-4" qtz. veins.</p> <p>468-535 - pale gray occasional chl, biotite patches 1-3' + sulf.</p>	881	Tr py	388.0'	392.4'	4.4'	0.079			
			882	2%py	392.4'	394.5'	2.1'	0.008			
			883	1%py	410.0'	413.5'	3.5'	0.001			
			884	3%py	428.0'	433.9'	5.9'	0.001			
			885	2%py	445.8'	450.6'	4.8'	0.003			
			886	1-2%	450.6'	455.7'	5.1'	Nil			
			887	2%py	457.7'	460.7'	3.0'	Tr			
			888	2-3%py	460.0'	473.0'	5.0'	0.003			
			889	3-5%py	473.0'	478.0'	5.0'	0.001			
			890	3-4%py	478.0'	483.0'	5.0'	0.002			
			891	3%py	483.0'	488.4'	5.4'	Tr			
			892	1%py	496.1'	501.3'	5.2'	Tr			
			893	3-5%py	512.8'	514.1'	1.3'	0.160			
			894	1-2%py	524.8'	526.8'	2.0'	0.010			

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-4 SHEET NO. 5

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SIZE INCHES	FOOTAGE FROM TO TOTAL	%	1/2 T/ON	oz/TON	
303.5'	1248.0'	Granite continued... 468-535-(505-525) pinkish section strongly altered yellow-green for remainder of section 535-560-pale-whitish with minor greenish tint. 560-573 1-2" patches (mafic xenoliths or fragments) po is now dominant over py (2-3% po) 573-653 - 2-5% po & py pale-cream colour local shear bx. zones 608-617' 10" pinkish qtz. vein at centre 617-630 shr-bx. 630-693 many 3-4" qtz. veins darker greenish core 653-691 dark section dominates with only 1-2% py. 691-755.5 alternating dark green-creamy granite qtz.veins in patches w 691-709, 10-15% 70° to core axis 755.5-760 1-2% py-po buff-pinkish, fine grained 1-2% dies. py (looks like pink feldspar porphyry) 760-771 - strong shear-breccia. (769.4-770) dark green soft (fault gauge?) 771-1248.0' Predominantly dark greenish granite with minor pale gray sections. Coarser in appearance, 1-2% py more locally. Several strong shear zones. 870-912' very strong local shear-bx, parallel to core axis green to buff sheared sections in dark granite 1-2% sulfides. shr-bx w 808 up to 10% qtz. lacing 810.5-814.5' 817, 839-843 853-912.1 - 3% py, 10-15% quartz laced up to 25% (883-893) entire section strongly sheared and brecciated almost parallel to core axis	895	1%py	553.8' 558.1' 4.3'	0.006			
			896	2%po	564.5' 568.5' 4.0'	Tr			
			897	1-2% py/do	568.5' 573.5' 5.0'	N11			
			898	2% py	549.4' 553.4' 4.0'	N11			
			899	1-2% py-po	596.9' 601.3' 4.6'	0.003			
			900	1-2% py-po	606.9' 612.1' 5.2'	N11			
			901	3-5% py-po	612.1' 617.4' 5.3'	0.500			
			902	1% po	625.7' 628.4' 2.7'	0.018			
			903	3% "	645.5' 648.0' 2.5'	0.021			
			904	3-5% po-py	648.0' 652.0' 4.0'	0.009			
			905	2% "	652.0' 656.8' 4.8'	Tr			
			906	3-5% po-py	677.5' 680.3' 2.8'	0.018			
			907	2-3% py	687.0' 691.0' 4.0'	0.004			
			908	2-7% py	705.4' 709.1' 3.7'	0.001			
			909	1-2% py	720.6' 723.6' 3.0'	N11			
			910	"	723.6' 728.0' 4.4'	N11			
			911	2%py	755.2' 760.2' 5.0'	0.018			
			912	1-2%py	760.2' 764.6' 4.4'	0.006			
			913	"	768.8' 771.5' 2.7'	Tr			
			914	1%py	783.8' 788.0' 4.2'	0.002			
			915	2%py	810.3' 814.3' 4.0'	N11			
			916	2%py	838.0' 842.9' 4.9'	0.002			
			917	"	870.5' 874.5' 4.0'	0.001			

LANGRAGES - TORONTO - 366-1166

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-4 SHEET NO. 6

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	S.P.H. IDES	FOOTAGE		%	G/TON	OZ/TON	OZ/TON	
					FROM	TO					TOTAL
503.5-	240.0'	Granite continued...	918	1-2% py	874.5	878.0	3.5'		Nil		
		923-958 - mid green- altered granite, large blebs of py/po/sph (up to 1 1/4") along occasional narrow seams heated with gray qtz. locally 10-15% qtz., 3-5% py po. Sph. blebs (928-955.5').	919	2%po	878.0	879.0	1.0'		0.005		
			920	3-5%p	880.0	892.0	4.0'		Nil		
			921	2%py	892.0	894.5	2.5'		0.011		
		950-987 Strongly shr'd bx-altered locally up to 40% qtz. lacing - 5-10% py po, 983-983	922	2%py	898.0	902.2	4.2'		Nil		
		987-1022 -chlorite on shear slips - mod. alteration, minor shearing.	923	1%py	902.2	905.6	3.4'		0.002		
			924	1%py	911.1	914.8	3.7'		0.002		
		1031-1039 -light coloured 20% qtz. laced chlorite & py patches(po)	925	2%py	914.0	918.0	3.2'		0.003		
		1043-1048 -altered zone, light	926	3%py	664.4	667.2	2.8'		0.003		
		1045.5-1047-30% qtz., 10% py po	927	2-3% py po	921.0	926.0	5.0'		0.011		
		1070-1081 -80% shr-bx-altered Tr, py, po, mhl.	928	2-3% py po	928.0	929.0	1.0'		0.001		
		1094.5-1097.6 strong shr. bx 60% qtz. 3-5% py po	929	1-2% py	939.5	941.6	2.1'		0.020		
		1097.6'-1151 strongly altered and sheer-bx. local quartz lacing up to 40%, sulphides up to 10%. Silicified, pale green colour, heavy chlorite on shears (blue green mud)	930	2%py	941.6	942.5	0.8'		0.005		
		1114.0 -6" py, po (10%)	931	2%py	942.5	945.1	2.6'		0.005		
		1125.6'-shr.-bx 6" qtz. vein 1-2% po	932	2-3% py	945.1	947.4	2.3'		0.005		
		1135-1145-50% gray-white quartz, massive and veined 3-5% py patches & chlorite	933	2-3% py	958.0	960.9	2.9'		0.004		
		1144.3'-1145.0' qtz. vein 30% py	934	2-3%p	960.9	965.1	4.2'		Nil		
		1145-1151 5% qtz. laced 2-3% diss. py.	935	3%py	965.1	968.0	2.9'		Tr		
			936	2%py	969.4	974.4	5.0'		0.001		
			937	2%py	974.4	979.4	5.0'		Tr		
		1151-1248 Biotite granite with pale greenish altered sections. Gradually diminishing alteration with depth. local alteration, shear-bx and qtz. veining.	938	1%po	979.4	983.6	4.2'		0.001		
			939	-	994.9	998.6	3.7'		Tr		
			940	1%py	1000.8	1005.5	4.7'		0.001		
			941	2%py	1014.2	1019.3	5.1'		Tr		
			942	2-3% py po	1019.3	1023.0	4.5'		Tr		
			943	-	1023.0	1027.6	3.8'		0.003		
			944	2%p	1034.4	1038.0	3.6'		0.001		
			945	1-4% py po	1043.0	1048.0	5.0'		0.004		
			946	2%py	1069.5	1074.0	5.3'		0.002		

LANGRAGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-83-4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-4 SHEET NO. 7

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	ANALYSIS	FOOTAGE	TOTAL	%	oz/TON		
385.5'	1248.0'	Granite continued...	947	2%py	1076.7	1078.5	1.8'	Tr		
		1160-1185 - minor local alteration, occasional local 2-3% py-po zones & shearing at 1160, 1169, 1183 (1173-1176-shr-bx)	948	"	1090.6	1094.8	4.2'	0.003		
			949	"	1094.8	1098.0	3.2'	0.005		
			950	1%py	1098.0	1102.8	4.8'	N11		
			951	1% "	1102.8	1107.6	4.8'	N11		
		1185-1248 - minor chl. on slips - shr. bx local gray 1/4" quartz veins at 45° to core axis	952	"	1113.5	1116.6	3.1'	0.021		
			953	2% "	1122.7	1126.8	4.1'	0.001		
			954	"	1126.8	1131.0	4.2'	N11		
		1206.5-1208 white qtz. vein barren	955	3-5% "	1131.0	1136.0	5.2'	0.020	1113.5'-1175.4'	
		1218.4-1222 sheared, bleached, chloritized 1% po	956	2-3% "	1136.2	1138.8	2.6'	0.005		
		1225-1227.6 shr-bx Tr sph.	957	1-5% "	1138.8	1143.7	4.9'	0.011		Ure Zone
		1238.4 - 1 1/2" qtz. vein, 20% py	958	5%py	1143.7	1145.3	1.6'	0.035		
		1243.6 - 1245.8' shr-bx	959	3-4%py	1145.3	1149.1	3.8'	0.004		
			960	2-3%py	1149.1	1151.7	2.6'	0.002		
			961	1-2%py	1159.2	1162.4	3.2'	0.008		
			962	1-2%py	1162.4	1166.0	3.6'	0.002		
			963	"	1170.9	1175.4	4.5'	0.049		
			964	"	1175.4	1178.2	2.8'	0.003		
			965	-	1188.9	1192.9	4.0'	N11		
			966	-	1200.4	1203.8	3.4'	0.001		
			967	-	1203.8	1208.0	4.2'	Tr		
			968	-	1208.0	1209.8	1.8'	N11		
			969	-	1218.0	1221.9	3.9'	N11		
			970	-	1224.7	1228.0	3.3'	0.001		
			971	-	1234.5	1239.1	4.6'	Tr		
			972	-	1239.1	1244.4	5.3'	0.001		
			973	-	1244.4	1248.0	3.6'	Tr		
			974	-	C O M P O S I T E			0.007		

E.D.H.

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-5 LENGTH 1307.0'
 LOCATION G493
 LATITUDE 3+76W DEPARTURE 3+76W
 ELEVATION Surface AZIMUTH 102° DIP -60°
 STARTED Feb. 27/83 FINISHED March 2/83

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
200'	59°	105°	1000'	58°	115°
400'	60°	107°	1200'	57°	119°
600'	61°	111°			
800'	60°	112°			

HOLE NO. SA-83-5 SHEET NO. 1

REMARKS _____

LOGGED BY J. Hiner

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO.	SUPPLIES	FOOTAGE FROM TO TOTAL	%	lb/Ton	OZ/TON
0 -	4.0'	CASING (Bedrock at 2.5 feet.)						
4.0'	515.1'	<p>GREENSTONE (Highly Sheared)</p> <p>Dark green, fine grained, basaltic-andesitic rock. Extremely sheared with shearing, foliation, and possible bedding, varying from 0-20° to core axis. Rock is soft with carbonate veins & diss. throughout. Local silicification i.e.-hairline fractures massive patches giving bleached appearance next to fractures. Hairline fractures etc., are at 80° to core axis. Local narrow 2-5' bx zones are healed with carbonate.</p> <p>Thin cherty looking bands often highly fractured and contorted up to 1/2" thick are not uncommon.</p> <p>The central portion of the unit has a distinct bedded appearance, a gritty texture and resembles graywacke and argillite locally. Some observed bedding features may, however, be due to shearing parallel to core axis and narrow qtz. veins 1/16" with bleached and altered rims.</p> <p>Trace to 1% diss. py, po, cpy.</p> <p>4.0-95.0' tuffs in appearance</p> <p>18-23-bx-with carb. healing.</p> <p>68.5' local patch of pink - k spar?</p> <p>95.0'-190' Cherty ? Interflow section, many narrow cherty sections, greenish white, reddish brown, very hard 95-110'</p> <p>115-117 shrd-bx'd.</p> <p>138-142 MAFIC DYKE (lamprophyre) very fine grain, black, minor perpendicular fractures. Contacts obscure 6-8" wide irregular.</p> <p>143-145 white chert</p> <p>166.5-169.5 bx.healed with carbonate</p> <p>189-190 cherty bx.</p>						

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-03-5 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-03-5 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ANALYSES			
FROM	TO		NO.	SIZES	FOOTAGE		%	oz/Ton	oz/Ton	oz/Ton
					FROM	TO					TOTAL
1.0'	515.1'	continued...								
		200-218 cherty bx, micro faulting etc. } some 1-2"	975	-2% py	268.0'	273.0'	5.0'	0.004		
		234-236.5 bx. healed with carbonate } qtz. veins and 1/2"	976	% py	281.0'	283.6'	2.6'	0.001		
		263-267 bx. " " " } chlorite patches.	977	1-2% py po	330.0'	342.0'	4.0'	Tr		
		269-273 cherty locally	978	2-3% py po	363.3'	368.0'	4.7'	0.002		
		203-200 cherty.	979	1-2% py po	373.6'	377.0'	2.4'	0.077		
		288-515.1' Massive andesitic unit with still some evidence of possible bedding but much less obvious or intense than above.	980	1-2% py	413.2'	418.0'	4.8'	Nil		
		338 - 1-3% py, po minor chlorite, qtz. veins.	981	1-2% py	425.3'	428.6'	3.3'	Nil		
		357-378 abundant carb. veinlets, up to 20% bluish colour, in rock, chert, K spar @ 375'	982	1-2% py po	436.8'	440.0'	3.2'	Nil		
		365-366 - major sheared qtz vein 30-40° to c-axis 5% po, py	983	1-2% py po	440.0'	445.2'	5.2'	Nil		
		378-454 - slightly more bedded features again hairline fractures diminish below 400'.	984	"	445.2'	450.2'	5.0'	Nil		
		414-417 <u>Quartz Porphyry</u> (as in all previous drill holes)	985	1-2% py	479.0'	481.0'	2.0'	Nil		
		Intense carb. veining and sil. for three ft. above & below.	986	"	485.3'	488.2'	2.9'	Nil		
		420' - 6" qtz., fels. vein pink tr. chl, py.	987	-2% py	493.8'	498.0'	4.2'	0.009		
		428' - 454 - 2-3% py po-darker, more siliceous.	988	2% pyp	498.0'	501.3'	2.3'	0.026		
		454' - 479 - Dark green chlorite rich andesite	989	1-2% py po	501.3'	508.5'	2.2'	Tr		
		479' - 515.1' - Contact Zone	990	2-3% py po	503.5'	508.0'	4.5'	0.026		
			991	2% popy	508.0'	512.8'	4.8'	0.002		
			992	2% "	512.0'	515.1'	2.3'	Nil		
			993	2-10% py po	515.1'	519.6'	4.5'	0.003		
			994	3-5% py po	519.6'	522.3'	2.7'	0.005		
			995	-2% py	522.3'	525.7'	3.4'	Tr		
			996	2-3% py	525.7'	529.9'	4.2'	Tr		
515.1'	1508.0'	GRANITE								
		Biotite granite, medium to coarse grained with darker biotite chlorite rich sections, with numerous yellow-green shrd. altered zones, and some buff-gray-pinkish zones. Shear-breccia and strongly sheared section parallel to the core axis are present								

LANGRANGES - TORONTO - 306-1158

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-113-5 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-113-5 SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS				
FROM	TO		NO.	SIZE	FROM	TO	TOTAL	%	oz/Ton	oz/TON	
515.1'	508.0'	GRANITE Continued... locally. Average 2-3% py & po with local sections up to 10% py & po Tr py, sph, galena. Silicification (quartz lacing locally up to 40%) and sericite (yellow-green areas) and chlorite (shear slips) in lower portion of hole are the most prominent alteration features Contact is sharp at 50° to core axis 515.1-543 - light buff-green gray contact alteration. 515.1-522 - shr. bx. 5-10% py po. 522-525.5 - pink-buff, 6% qtz. laced, 1-2% py po 525.5-531 - shr-bx 20% qtz. laced " " 533-535 - 20% qtz.- 2-3% py. 543-607 - Dark biotite granite local weak altr. occasional 1-3" qtz. veins. 1% py & po. 560-562.5 buff - 5-10% qtz. 607 - 620 - light green-gray to pink (615-620) qtz. laced 10-15% 2-3% py, epidate, chlorite, K-spar locally 620-653. mixed darker and lighter areas. 640.5-643.5 30% qtz.-laced, K-spar. 644 6" buff with 7-8% py & po 653-670 - light gray-green, 15% qtz. lacing 664-669-qtz. ladder veins 10% py & po 15-20% qtz. 670-714 25-30% qtz.lacing with up to 70% qtz. locally. 668.5-669.5' qtz. vein bx. zone 60% qtz. 676 - 677.5' " " " , gray-green, chl. biotite 714 - 762 dark chlorite biotite rich core 728-729.5 buff-pink 30% qtz 739-740.5 " " -green 30% qtz. 740-749 shr-bx. qtz. vein, chlorite stringers	997	1-2% py po	529.9'	535.3'	5.4'			0.004	
			998	2% "	535.3'	540.2'	4.9'		0.001		
			999	1-2% "	560.4'	584.5'	4.1'		0.001		
			1000	2-3% py	607.0'	611.8'	4.8'		0.003		
			8936	3-5% py	611.8'	615.7'	3.9'		0.002		
			8937	1-2% py	615.7'	620.0'	4.3'		0.031		
			8938	2% py	620.0'	622.3'	2.3'		0.002		
			8939	1-2% py po	631.0'	636.0'	5.0'		0.007		
			8940	1% py po	536.0'	640.1'	4.1'		0.002		
			8941	2% py po	640.1'	644.2'	4.1'		0.002		
			8942	2% py po	644.1'	645.8'	1.7'		Nil		
			8943	1% py po	659.7'	661.1'	5.4'		0.011		
			8944	10% "	665.1'	668.2'	3.1'		0.056		
			8945	2-3% "	653.8'	659.7'	5.9'		0.005		
			8946	3% "	668.2'	672.4'	4.2'		0.007		
			8947	1-2% "	672.4'	670.0'	5.6'		0.001		
			8948	2-3% "	670.0'	682.9'	4.9'		0.006		
			8949	1-2% "	682.9'	687.5'	4.6'		0.005		
			8950	2% py	687.5'	692.1'	4.6'		0.003		
			8951	"	692.1'	677.0'	4.9'		0.005		
			8952	"	702.3'	707.5'	5.2'		0.001		
			8953	3% "	707.5'	712.8'	5.3'		0.004		

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-03-5 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-03-5 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ANALYSES			
FROM	TO		NO.	SIZE	FOOTAGE FROM	FOOTAGE TO	TOTAL	%	oz/Ton	oz/Ton
515.1'	1308.0'	continued...	8954	2-3% py	712.8'	710.0'	5.2'		0.006	
		762-801 gray green, silicified qtz. lacing greater than 20% occasional dark chl-biotite sections, 1-2% py & po	8955	3%"	710.0'	719.9'	1.9'		0.006	
		767-770 60% qtz. laced	8956	3-5% py	726.5'	730.3'	3.8'		0.008	
		780-781 " " "	8957	2% py	747.0'	750.9'	3.9'		0.002	
		796-798 " " "	8958	4% po	758.0'	762.2'	4.2'		0.001	
		Local buff sections with q.v. at 763, 769, 782, and shr.-bx. @ 708.	8959	2% py	762.0'	767.0'	4.0'		0.001	
		801-845 mixed gray green and biotite chlorite rich core average 5% qtz., 1-2% sulfides.	8960	5-7% py po	767.0'	772.0'	5.0'		0.001	
		845-888 Light gray-greenish and buff coloured (pinkish) with local strong yellow-green alteration, 5-10% qtz. and 1-3% py. po.	8961	2-3% py po	772.0'	775.4'	3.4'		0.011	
		861-867-buff-pink	8962	2%"	700.1'	704.9'	4.8'		0.001	
		869-870- " "	8963	3-3%"	704.9'	709.5'	4.4'		0.044	
		shr-bx @ 873, 875, 877-879.	8964	3%"	793.0'	795.4'	2.4'		0.002	
		880-888 strong yellow-green alteration	8965	2-3%"	795.4'	800.7'	5.3'		0.040	
		883.5 6" qtz. vein with 2" py bleb	8966	2% py	815.1'	820.0'	4.9'		0.001	
		884.5-886 buff-green	8967	1-2% py	830.3'	832.0'	1.7'		0.001	
		888-981 Mixed altered greenish gray and biotite chlorite-dark granite, local shr-bx & sulfide concentrations to 3-5%, 4-6" qtz. veins common below 928'	8968	2-3% py	044.3'	048.0'	3.7'		Nil	
		893 - shr.-bx	8969	1-2% py	055.2'	058.0'	2.8'		0.005	
		895 - 8" gray qtz. vein @ 50° to core axis	8970	2% py	061.7'	067.2'	5.5'		0.002	
		911-912- shr-bx	8971	2-3%"	067.2'	070.2'	3.0'		0.001	
		934.5-935.5 shr-bx qtz. vein 4" py & po possible -ankerite @ 937, 939	8972	" "	078.0'	082.1'	4.1'		0.001	
		941-942 shr-bx	8973	7-10% py	082.1'	083.9'	1.8'		0.010	
		944-945 " "	8974	3-4% py	083.9'	087.5'	3.6'		0.003	
		971-972 extreme shr-bx chloritic.	8975	2-3% py	094.0'	095.4'	1.5'		0.001	
			8976	" "	023.4'	028.5'	5.1'		0.007	
			8977	1-2% py	028.5'	032.0'	3.5'		Tr	
			8978	3% po	034.4'	037.5'	3.1'		Nil	
			8979	2% py po	039.8'	045.2'	5.4'		0.002	

LANGRANGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Anket)
 HOLE NO. SA-113-5 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-113-5 SHEET NO. 5

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			Au ASSAYS					
FROM	TO		NO.	FOOTAGE		%	Oz/Ton	Oz/Ton			
				FROM	TO				TOTAL		
915.1'	1300.0'	continued... 880-901 cont'd. 257-274 20-30% qtz. veining 3% py po blebs-much dark bluish green chl. mud on shear slips. 901-1003 - chloritized biotite mixed dark & light granite, chlorite stringers common, local strong silica & heavy sulfide mineralization. 1004.5-1006 - 50% qtz. (5%-10% py) 1022 - 1023 - 0% qtz. vein white, barren 1030 - 1031 - " " " " " 1040 - 1052 - common 4-6" qtz. veins, chlorite wisps Tr py & po 1052 - 1055 - light buff 30% white qtz. 3"-1' veins 1-2% py 1077 - 1078 - qtz. vein parallel to core axis 1/2" py blebs 1082 - 1083 - 6" qtz. vein tr py po 1083 - 1088 - as above, but much less chloritized, and more yellow-green alteration with 1-2% sulfides. 1098.5-1105.5 - shr-bx yellow-green altr'd, qtz. lase 10% 1-2% diss. py. 1099.-1100.5 - shr. bx. dark green 1105.5'-1141-yellow-green (similar to Duh 83-1,2) with local 10% qtz.lacing 1-2% py po 1141 - 1160 - increasing yellow-green alteration & shr.-bx. 1168 - 1308 - sheared and altered granite, alternating chlorite-biotite, buff-pink and yellow-green sections, local qtz. lacing and splashes of sph, galena and up to 3-5% py & po. Shr. breccia zones abundant. Major shearing is almost parallel to core axis over 5-20 foot sections.	8900	1-2% py po	965.4'	968.5'	3.1'		N11		
			8981	3-5%	968.5'	972.3'	3.8'	0.008			
			8982	2%	972.3'	975.2'	2.9'		N11		
			8983	3%	975.2'	978.9'	3.7'	0.002			
			8984	1-3% py	989.3'	993.3'	4.0'		N11		
			8985	"	1001.3	1005.0	3.7'		Tr		
			8986	10% py	1005.0	1006.6	1.6'	0.005			
			8987	1% py	1006.6	1008.0	1.4'		Tr		
			8988	1-2% py	1020.8	1025.1	4.3'		Tr		
			8989	2-3% py	1030.3	1044.0	4.7'	0.001			
			8990	2% py	1044.0	1048.5	4.5'	0.004			
			8991	1-2% py	1052.4	1056.1	3.7'	0.004			
			8992	" "	1070.3	1074.5	4.2'	0.004			
			8993	1-4% py	1074.5	1078.4	3.9'	0.019			
			8994	2% py	1085.0	1088.8	3.8'		N11		
			8995	1-2% py	1096.0	1099.1	3.1'		N11		
			8996	" "	1099.1	1024.4	3.3'	0.020			
			8997	2% py	1102.4	1105.3	2.9'	0.005			
			8998	1-2% py	1121.1	1124.3	3.2'	0.005			
			8999	" "	1136.2	1139.5	3.2'	0.008			
			9000	2-3% py	945.2'	950.2'	5.0'	0.002			
			9001	" "	1147.0	1151.0	4.0'	0.019			
			9002	1-2% py	1157.8	1163.8	6.0'	0.002			
			9003	" "	1081.3	1085.0	3.7'	0.004			
			9004	1% sph	1169.6	1171.1	1.5'	0.016			
			9005	1% py	1171.1	1175.9	4.8'	0.005			
			9006	1-2% py	1184.5	1189.1	4.6'	0.005			
			9007	1% py	1192.8	1198.0	5.2'	0.032			

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. 11A-83-5 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. 11A-83-5 SHEET NO. 6

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ANALYSES			
FROM	TO		NO.	SLIP SIDES	FOOTAGE FROM TO TOTAL	%	oz/TON	oz/TON	oz/TON
515.1'	1308.0'	continued...							
		1168-1198 - strong shr-bx, 20% qtz. lacing, Tr sph, galena	9000	2-3% py	1202.8 1207.0 5.0'		0.004		
		1-2% py po (shr.bx over 2' sections) yellow-green	9001	1-2% py	1207.0 1211.9 5.0'		0.001		
		1198-1204.5 chlorite biotite-granite	9010	" "	1216.7 1219.2 2.5'		0.006		
		1204.5-1219 buff-cream, locally talcose 5-10% qtz. laced	9011	3-4% py	1233.0 1235.0 2.0'		0.003		
		2-3% py							
		1219-1226 - gray granite	9012	2-3% py	1240.5 1243.2 2.7'		0.004		
		1226-1237.5' - altered gray granite 10% qtz. lacing, 1-2% py po	9013	2% py	1243.2 1248.2 5.0'		Nil		
		Tr. galena	9014	4-5% py	1248.2 1253.0 4.8'		0.002		
		1235.5-1235 (20% qtz. lacing)							
		1237.5-1270 - strongly shr-bx with yellow-green alteration	9015	10% py	1253.0 1258.0 5.0'		0.009		
		20-30% qtz. lacing at 10° to core axis							
		1248-1268 - 3-7% suf. py, po, sph, gal.	9016	5-10% py	1258.0 1260.6 2.6'		0.002		
		1262-1264 - strong shr-bx.	9017	15% py	1260.6 1265.1 4.5'		0.007		
		1258-1260 - 5-10% py po.	9018	5-7% py	1265.1 1268.7 3.6'		0.005		
		1270-1288 - locally altered gray granite 1-2%	9019	1-2% py	1284.5 1288.5 4.0'		Tr		
		1288-1301 - pale cream-gray local pink (1290-94) yellow-green							
		3-5% py in small blebs throughout	9020	" "	1288.5 1293.7 5.2'		Nil		
		1301-1308 - locally altered gray granite. 10% qtz. lace	9021	" "	1293.7 1298.9 5.2'		Nil		
		shr-bx @ 1305.3 - 1306	9022	2-3% py	1298.9 1303.6 4.7'		Nil		
		1305-1307 altered yellow-green 3-5% py	9023	3% py	1303.6 1308.0 4.4'		Nil		
		E.O.H.	9024	ypc			0.002		
					COMPOSITE				

J. H. I

APPENDIX E

Geological Rock Unit Descriptions

1. Granite

The granite is a medium to coarse grained generally massive, grey to green intrusive which has been altered and sheared to various degrees. Mineralogically, the granite is made up of feldspar, quartz and one or more of biotite, chlorite and sericite, totalling less than 10% of the unit. Almost all the granite has been altered to some degree and this alteration consists of sericitization, silicification, minor chloritization and very local potassium feldspar alteration. Sericitization is ubiquitous and the granite is a bleached white-pale yellow-green colour where this alteration is pervasive. Where shearing is strong, the granite appears to have been micro-brecciated and the term "Shear Breccia" was used in logging the core. Chloritization is present mainly as clots and stringers associated with silicification although chlorite is commonly present as an alteration of biotite. Disseminated pyrite is ubiquitous in the altered granite and blotchy pyrite and pyrrhotite as well as trace sphalerite, galena and chalcopyrite occur associated with veins and stringers in it.

2. Mafic Volcanics

The mafic volcanics are medium to dark green, fine-grained, foliated rocks of probable basaltic composition. The foliation is generally subparallel to the core axis. The mafic volcanics may be locally tuffaceous and in places narrow, hard, pale grey bands occur which might be interflow sediments. These bands in many places appear to be spatially related to fractures and narrow quartz veinlets and it is probable that they represent alteration of the volcanics. Disseminated pyrite is common in the mafic volcanics and does not appear to be related to alteration or quartz veining.

3. Quartz Porphyry

The quartz porphyry is a medium grained, felsic intrusive unit characterized by up to 30% quartz phenocrysts up to 1 cm across. The phenocrysts are high temperature quartz as Beta pseudomorphs are commonly observed. The quartz porphyry intrudes the granite as witnessed by the strong alteration in the granite on both the hanging and foot wall side of the quartz porphyry. The quartz porphyry contains virtually no sulphides and no quartz vein material despite being sheared. This unit is believed to be a dyke or system of dykes.

4. Diorite

The diorite is a coarse grained, generally massive intrusive characterized by feldspar phenocrysts in a medium to fine-grained matrix of hornblende and biotite and very minor quartz. This unit has gradational contacts with the granite and appears only in hole SA83-3.

5. Mafic Dykes

These dykes are very fine-grained, black to dark green, narrow rock units which show intrusive relationships with the mafic volcanics and the granite. Their volumes are insignificant by comparison with the other rock units encountered in the drilling.

6. Quartz Veins & Lacing

Quartz veins are bull white quartz containing local blotchy patches of pyrite and pyrrhotite with occasional sphalerite, galena and chalcopyrite. A few of these veins, which range from 6 inches to feet of core length, contain minor potassium feldspar and have a pinkish-orange colour.

Quartz lacing is characterized by narrow 1/2 to 2 inch quartz veins, randomly oriented and often forming a lace-like network of veins within the host rock. This lacing can comprise up to 60% of the rock unit. Local patches and stringers of pyrite and pyrrhotite

with trace sphalerite and galena occur in the quartz lacing. The quartz is generally milky white to grey-white in colour.

7. Sulphides

Pyrite occurs as disseminated cubes less than 1/8 inch across within the altered granite, the diorite, and the mafic volcanics in quantities up to 3% of the rock. Local stringers and patches of pyrite occur in the shear zones and large blotches up to 1.5 inches across occur in a few places within the quartz veins.

Pyrrhotite occurs as blotchy patches and in narrow seams within the shear zones and associated with the quartz veins. Pyrrhotite occurs only in holes SA83-3, SA83-4 and SA83-5 and only in the deeper sections of the holes.

Sphalerite occurs in very minor amounts associated with bull quartz vein material. The sphalerite is a reddish-brown colour and occurs in patches up to 1/2 inch across.

Galena and chalcopyrite occur in trace amounts associated with quartz veins and quartz lacing.

APPENDIX F

Core Assay Results

X-RAY ASSAY LABORATORIES LIMITED

1595 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-956947

CERTIFICATE OF ANALYSIS

TO: AUP RESOURCES
ATTN: J.W. GILL PRESIDENT
2 JANE STREET, SUITE 209
TORONTO, ONTARIO
M5S 4W9

CUSTOMER NO. 492

DATE SUBMITTED
3-FEB-83

REPORT 17115

REF. FILE 12526-P3

110 SAMPLES

WERE ANALYSED AS FOLLOWS:

AU 72/TON	METHOD FA	DETECTION LIMIT 0.001
-----------	--------------	--------------------------

DATE 16-FEB-83

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY

SAMP	AU OZ/TON	SAMPLE	AU OZ/TON
601	NIL	656	NIL
602	NIL	657	NIL
603	NIL	658	TRACE
604	0.003	659	0.001
605	0.001	660	TRACE
606	NIL	661	0.011
607	0.002	662	TRACE
608	0.005	663	0.001
609	NIL	664	0.001
610	NIL	665	0.004
611	NIL	666	0.002
612	0.002	667	0.006
613	0.011	668	NIL
614	0.002	669	TRACE
615	TRACE	670	0.010
616	NIL	671	TRACE
617	NIL	672	NIL
618	TRACE	673	TRACE
619	NIL	674	0.004
620	0.002	675	NIL
621	NIL	676	0.002
622	0.001	677	0.003
623	0.004	678	NIL
624	NIL	679	0.006
625	0.008	680	NIL
626	NIL	681	TRACE
627	0.002	682	NIL
628	NIL	683	TRACE
629	NIL	684	TRACE
630	TRACE	685	TRACE
631	NIL	686	0.013
632	NIL	687	TRACE
633	NIL	688	TRACE
634	NIL	689	TRACE
635	NIL	690	0.002
636	NSS	691	TRACE
637	NIL	692	0.001
638	NIL	693	0.008
639	NIL	694	0.001
640	0.001	695	0.002
641	NIL	696	0.013
642	TRACE	698	NIL
643	0.001	699	NIL
644	NIL	700	0.001
645	0.001	701	NIL
646	0.430	702	NIL
647	TRACE	703	0.035
648	NIL	704	NIL
649	0.003	705	TRACE
650	0.005	706	0.002
651	NIL	707	TRACE
652	0.002	708	0.002
653	NIL	709	TRACE
654	0.002	710	0.002
655	TRACE	711	TRACE

NSS - NOT SUFFICIENT SAMPLE

X-RAY ASSAY LABORATORIES LIMITED

1385 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-985947

CERTIFICATE OF ANALYSIS

TO: AGR RESOURCES
ATTN: J.W. GILL PRESIDENT
2 JANE STREET, SUITE 209
TORONTO, ONTARIO
M6S 4W8

CUSTOMER NO. 492

DATE SUBMITTED
1-MAR-83

REPORT 17294

REF. FILE 12961-P1

39 S.CORES

WERE ANALYSED AS FOLLOWS:

AU GZ/TON	METHGD FA	DETECTION LIMIT 0.001
-----------	--------------	--------------------------

X-RAY ASSAY LABORATORIES LIMITED

DATE 14-MAR-83

CERTIFIED BY

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD PULPS AND REJECTS ***
30 DAYS FROM DATE OF THIS REPORT

SAMPLE	AU OZ/TON	SAMPLE	AU OZ/TON
887	TRACE	939	NIL
889	0.001	940	0.001
891	TRACE	941	TRACE
892	TRACE	942	TRACE
893	0.160	943	0.003
895	0.006	944	0.001
900	NIL	945	0.004
901	0.500	946	0.002
902	0.013	947	TRACE
903	0.021	948	0.003
904	0.009	949	0.005
905	TRACE	950	NIL
906	0.013	951	NIL
907	0.004	952	0.021
908	0.001	953	0.001
909	NIL	954	NIL
910	NIL	955	0.020
911	0.013	956	0.003
912	0.006	957	0.011
913	TRACE	958	0.035
914	0.002	959	0.004
915	NIL	960	0.002
916	0.002	961	0.008
917	0.001	962	0.002
918	NIL	963	0.049
919	TRACE	964	0.003
920	0.003	965	NIL
921	NIL	966	0.001
922	0.011	967	TRACE
923	NIL	968	NIL
924	0.002	969	NIL
925	0.002	970	0.001
926	0.003	971	TRACE
927	0.003	972	0.001
928	0.011	973	TRACE
929	0.001	974	0.007
930	0.020	975	0.004
931	0.005	976	0.001
932	0.005	977	TRACE
933	0.005	978	0.002
934	0.004	979	0.077
935	0.002	980	NIL
936	NIL	981	NIL
937	TRACE	982	NIL
938	TRACE		

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-966947

CERTIFICATE OF ANALYSIS

TJ: AUR RESOURCES
ATTN: J.W. GILL PRESIDENT
2 JANE STREET, SUITE 209
TORONTO, ONTARIO
M5S 4W8

CUSTOMER NO. 492

DATE SUBMITTED
1-MAR-83

REPORT 17295

REF. FILE 12970-H4

179 S.CORES

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU OZ/TON	FA	0.001

X-RAY ASSAY LABORATORIES LIMITED

DATE 14-MAR-83

CERTIFIED BY

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD PULPS AND REJECTS ***
90 DAYS FROM DATE OF THIS REPORT

SAMPLE	AU OZ/TON	SAMPLE	AU OZ/TON
712	0.003	767	NIL
713	0.003	768	NIL
714	0.001	769	NIL
715	NIL	770	NIL
716	NIL	771	0.002
717	NIL	772	0.003
718	NIL	773	NIL
719	NIL	774	TRACE
720	NIL	775	TRACE
721	NIL	776	NIL
722	TRACE	777	NIL
723	0.004	778	NIL
724	0.003	779	NIL
725	0.002	780	NIL
726	NIL	781	NIL
727	NIL	782	0.000
728	NIL	783	NIL
729	TRACE	784	NIL
730	NIL	785	0.002
731	NIL	786	NIL
732	TRACE	787	NIL
733	0.003	788	NIL
734	NIL	789	NIL
735	NIL	790	NIL
736	NIL	791	NIL
737	NIL	792	NIL
738	TRACE	793	NIL
739	0.001	794	0.017
740	0.003	795	0.004
741	0.003	796	NIL
742	0.008	797	NIL
743	NIL	798	NIL
744	NIL	799	NIL
745	NIL	800	0.001
746	NIL	801	TRACE
747	0.001	802	0.001
748	0.001	803	0.021
749	0.001	804	0.003
750	NIL	805	0.001
751	NIL	806	NIL
752	0.004	807	0.007
753	NIL	808	0.002
754	NIL	809	0.015
755	TRACE	810	NIL
756	NIL	811	0.370
757	NIL	812	TRACE
758	0.001	813	0.001
759	NIL	814	0.002
760	NIL	815	0.002
761	0.001	816	0.003
762	NIL	817	NIL
763	NIL	818	TRACE
764	NIL	819	0.006
765	NIL	820	0.001
766	NIL	821	0.003

SAMPLE	AU OZ/TON	SAMPLE	AU OZ/TON
822	0.042	860	0.003
823	0.140	861	0.005
824	NIL	862	0.011
825	0.003	863	0.004
826	NIL	864	0.003
827	NIL	865	TRACE
828	NIL	866	0.010
829	NIL	867	0.001
830	NIL	868	0.005
831	TRACE	869	NIL
832	NIL	870	0.003
833	0.001	871	0.001
834	NIL	872	0.002
835	TRACE	873	0.003
836	NIL	874	0.003
837	NIL	875	0.007
838	NIL	876	0.005
839	NIL	877	NIL
840	0.005	878	NIL
845	NIL	879	NIL
846	TRACE	880	NIL
847	NIL	881	0.079
848	TRACE	882	0.008
849	TRACE	883	0.001
850	NIL	884	0.001
851	0.002	885	0.003
852	NIL	886	NIL
853	NIL	888	0.004
854	NIL	890	0.002
855	NIL	894	0.010
856	NIL	896	TRACE
857	TRACE	897	NIL
858	NIL	898	NIL
859	0.001	899	0.003

X-RAY ASSAY LABORATORIES LIMITED

1895 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: AUR RESOURCES
ATTN: J.W. GILL PRESIDENT
2 JANE STREET, SUITE 209
TORONTO, ONTARIO
M6S 4W8

CUSTOMER NO. 492

DATE SUBMITTED
4-MAR-83

REPORT 17296

REF. FILE 13019-G3

107 SAMPLES

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU CL/TON	FA	0.001

X-RAY ASSAY LABORATORIES LIMITED

DATE 14-MAR-83

CERTIFIED BY

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD PULPS AND REJECTS ***
90 DAYS FROM DATE OF THIS REPORT

SAMPLE	AU OZ/TON	SAMPLE	AU OZ/TON
993	0.003	8982	NIL
994	0.005	8983	0.002
995	TRACE	8984	NIL
996	TRACE	8985	TRACE
997	0.004	8986	0.005
998	0.001	8987	TRACE
999	0.001	8988	TRACE
1000	0.003	8989	0.001
8936	0.002	8990	0.004
8937	0.031	8991	0.004
8938	0.002	8992	0.004
8939	0.007	8993	0.019
8940	0.002	8994	NIL
8941	0.002	8995	NIL
8942	NIL	8996	0.020
8943	0.011	8997	0.005
8944	0.056	8998	0.005
8945	0.005	8999	0.008
8946	0.007	9000	0.002
8947	0.001	9001	0.019
8948	0.006	9002	0.002
8949	0.005	9003	0.004
8950	0.003	9004	0.016
8951	0.005	9005	0.005
8952	0.001	9006	0.005
8953	0.004	9007	0.032
8954	0.006	9008	0.004
8955	0.006	9009	0.001
8956	0.008	9010	0.006
8957	0.002	9011	0.003
8958	0.001	9012	0.004
8959	0.001	9013	NIL
8960	0.001	9014	0.002
8961	0.011	9015	0.009
8962	0.001	9016	0.002
8963	0.044	9017	0.007
8964	0.002	9018	0.005
8965	0.040	9019	TRACE
8966	0.001	9020	NIL
8967	0.001	9021	NIL
8968	NIL	9022	NIL
8969	0.003	9023	NIL
8970	0.002	9024	0.002
8971	0.001	983	NIL
8972	0.001	984	NIL
8973	0.010	985	NIL
8974	0.003	986	NIL
8975	0.001	987	0.009
8976	0.007	988	0.026
8977	TRACE	989	TRACE
8978	NIL	990	0.026
8979	0.002	991	0.002
8980	NIL	992	NIL
8981	0.038		

APPENDIX G

Expenditure Summary

Appendix G:

Expenditure Summary

Drilling	-	4,487 feet	\$87,363.38
Linecutting	-		3,180.00
Geophysics	-	Magnetic and VLF-EM	2,355.00
Geologist	-		5,250.00
Supervision	-		4,500.00
Assays	-		4,651.00
Reports	-		4,950.00
Associated Expenses	-	travel supplies equipment, etc.	9,055.28
			<hr/>
Total Expenditures			<u><u>\$121,304.66</u></u>

63.4264
pt. 2



52J02SE8677 63.4264 SQUAW LAKE

020

A REPORT ON THE DIAMOND
DRILLING, TAILINGS SAMPLING
AND GEOLOGICAL SURVEY WORK
CONDUCTED ON THE ST. ANTHONY
GOLD MINE PROPERTY OF
AUBET RESOURCES INC.
BETWEEN MAY 18 AND AUGUST 2, 1983

by

Halo Centrex Inc.
Suite 1608
330 Bay Street
Toronto, Ontario
M5H 2S8

September 15, 1983



52J02SE8677 63.4264 SQUAW LAKE

020C

Page

SUMMARY	i
CONCLUSIONS	iv
RECOMMENDATIONS	vi
INTRODUCTION	1
PROPERTY LOCATION AND ACCESS	2
LAND POSITION	2
GEOLOGY	5
PREVIOUS WORK	5
SUMMER 1983	6
(a) Geological Investigation of Geophysical Anomalies	6
(b) Surface Bedrock Investigation Mine Area	11
1. Granite contact and shear zones	11
2. Quartz vein orientation	11
3. Mineralization Model	12
(c) Tailings Program	13
(d) Diamond Drilling	14
1. Drill Hole SA-83-6	16
2. Drill Holes SA-83-3-7, 8, 9	16
3. Drill Hole SA-83-10	19
(e) Additional Assaying	20
(f) Re-assaying	20
DISCUSSION OF RESULTS	21
CONCLUSIONS	27
RECOMMENDATIONS	29
APPENDICIES	
Appendix A St. Anthony Gold Mine Property Claim Listing	
B Tailings Sampling Drill Hole Cross Sections Plates 3C - 3L	
C Assays	
D Diamond Drill Logs Holes No. SA-83-10	
E Exploration Expenditure Summary - May 6 - September 15, 1983	

LIST OF TABLES, FIGURES, PLATES

		<u>Page</u>
FIG. 1	GENERAL LOCATION PLAN	3
FIG. 2	CLAIM LOCATION PLAN	4
FIG. 3	LONGITUDINAL SECTION OF MINE SHOWING DRILL HOLE PIERCE POINTS	26
TABLE I	ROCK GEOCHEMICAL SAMPLE ASSAYS	9
TABLE II	TAILINGS RESERVES	15
TABLE III	DIAMOND DRILL FOOTAGE SUMMARY	17
TABLE IV	ZONES OF MINERALIZATION	22
TABLE V	PROPOSED DIAMOND DRILL HOLES	24
TABLE VI	COSTS	30

LIST OF PLATES

			<u>Pocket # in</u> <u>Appendices</u>
Plate 1	DRILL HOLE LOCATION MAP	1" = 400'	1
Plate 2A	DETAILED STRUCTURAL GEOLOGY MINE AREA	1" = 50'	1
Plate 2B	SECTION PLAN A	1" = 40'	1
Plate 3A	PROPERTY SKETCH PLAN (Circa 1929)	1" = 330'	1
Plate 3B	TAILINGS SAMPLING PLAN	1" = 50'	1
Plate 3C	LEGEND FOR TAILINGS CROSS SECTIONS		3
Plate 3C-L	TAILINGS SAMPLE CROSS SECTIONS		3
	D - 1 + 25S, 1 + 00S		3
	E - 0 + 75S, 0 + 50S, 0 + 25S		3
	F - 0 + 00, 0 + 25N, 0 + 50N		3
	G - 0 + 75N, 1 + 00N, 1 + 25N		3
	H - 1 + 50N, 1 + 75N, 2 + 00N		3
	I - 2 + 25N, 2 + 50N, 2 + 75N		3
	J - 3 + 00N, 3 + 25N, 3 + 50N, 3 + 75N		3
	K - 4 + 00N, 4 + 25N		3
	L - 4 + 75N, 5 + 25N, 5 + 75N, 6 + 25N 6 + 75N, 7 + 25N.		3
Plate 4	GEOLOGICAL SECTION DRILL HOLE SA-83-3		2
Plate 5	GEOLOGIC SECTION SA-83-4, SA-83-7, SA-83-8		2
Plate 6	GEOLOGIC SECTION SA-83-5, SA-83-9		2
Plate 7	GEOLOGIC SECTION DRILL HOLE SA-83-6		2
Plate 8	GEOLOGIC SECTION DRILL HOLE SA-83-10		2

Summary

A program of geological mapping, tailings sampling and additional diamond drilling was carried out on the St. Anthony Gold Mine Property of Aubet Resources Inc. located near the north end of Sturgeon Lake Ontario during the period of May 16 and August 2, 1983. The geological mapping program was undertaken to evaluate 7 magnetic and 8 electromagnetic anomalies outlined previously and to examine the andesite-granite contact and the extensive quartz veining noted on surface. The tailings sampling program was carried out to locate and, if present, establish the grade and tonnage of stamp mill tailings reported to contain 37,800 tons at an average grade of 0.18 oz. Au/ton. The additional diamond drilling was to further evaluate the No. 2 Vein System, to test beneath the old workings on the No. 1 Vein System further to the north and to drill one geophysical anomaly believed to represent the southern extension of the No. 1 Vein System.

The work program consisted of five diamond drill holes for a total of 3,445 feet, a 217 tailings sampling program, and both surface structural mapping and rock geochemical sampling.

The drilling program extended the No. 2 Vein System for at least 600 feet along strike and intersected ore grade mineralization over mineable widths along a 200 foot strike length extending to a depth of over 600 feet. Hole No. SA-83-8 intersected 0.22 oz. Au/ton over 25.0 feet from 612.0' to 637.0' including a zone grading 0.36 oz. Au/ton over 15.0 feet from 622.0-637.0 feet. The presence of ore grade mineralization over mineable widths in three out of five holes on the No. 2 Vein indicates this system to have a very high potential of hosting an economic ore deposit. Substantial further drilling is recommended to define the dimensions of this potential ore bearing zone.

A new "Carbonate" zone was located between the No. 1 and No. 2 Vein Systems. Hole No. SA-83-9 intersected 0.17 oz. Au/ton over 8.1 feet from 116.3-124.4 feet. Holes SA-83-7 and SA-83-8, located 100 feet north of SA-83-9 encountered anomalous values of 0.036 oz. Au/ton over 5.6 feet from 237.0-241.6 feet and 0.065 oz. Au/ton over 5.3 feet from 277.7-283.0 feet. This new zone is open along strike and has the potential to host ore grade mineralization over mineable widths. Additional drilling is highly recommended to further evaluate this new zone.

Drill hole SA-83-10 confirmed the extension of the No. 1 Vein System below the old mine workings for a distance of 100 feet to the north of previous drilling. Gold values of 0.014 oz. Au/ton over 7.0 feet were encountered in this System. The presence of erratic high grade gold mineralization in the No. 1 Vein System, as observed from the old mine assay plans, indicates that further drilling from surface is unlikely to outline the ore zones and that underground exploration will be warranted to further evaluate the No. 1 Vein System. Further work on the No. 1 Vein System should be deferred until the drilling of the No. 2 Vein System and the Carbonate zone has been completed and evaluated.

Drill testing of geophysical Anomaly "C" failed to identify the southern extension of the No. 1 Vein System. Hole No. SA-83-6 encountered weakly graphitic felsic to intermediate tuff locally mineralized with pyrrhotite and minor sphalerite and chalcopyrite which accounted for this anomaly. The No. 1 Vein System is believed to have been displaced by faulting to the north of Anomaly "C".

Surface bedrock sampling encountered two areas with anomalous gold values. Sample No. 9093 assayed 0.200 oz. Au/ton from a quartz vein at an intrusive contact in the north eastern portion of the property and sample No. 9086 assayed 0.014 oz. Au/ton southwest of the present mine area.

The extensive tailings sampling program indicates that the old stamp mill tailings have been reprocessed. A narrow channel of stamp mill tailings, which leads to the main area where the stamp mill tailings were deposited, contains a drill proven reserve of 12,635 tons grading 0.062 oz. Au/ton when the overlying cyanide tailings are included with the stamp mill tailings for reserve calculations. This reserve is uneconomic by itself but should be kept in mind should a mining operation be renewed on this property.

The St. Anthony Gold Mine Property has an excellent potential for hosting an economic gold deposit and a budget of \$575,000 should be provided to carry out the recommended exploration program.

Conclusions

On the basis of the work completed to date the following conclusions have been drawn:

- 1) The No. 1 Vein System from which past production has taken place is characterized by local high grade ore pockets within an en-echelon Vein System.
- 2) Drilling to date has outlined the existence of the No. 1 Vein System along a 600 foot strike length, without encountering gold assays of economic grade over mineable widths. Due to the erratic nature of gold mineralization only dewatering of the shaft and underground exploration can fully evaluate its ore making potential.
- 3) The No. 2 Vein System occurs over a drill indicated length of at least 600 feet. Ore grade gold values over mineable widths in three out of five drill holes outline a mineralized zone along a 200 foot strike length extending from near surface to a depth of over 600 feet. The No. 2 Vein System has the potential to host an economic ore deposit.
- 4) Substantial further drill testing is required to define the dimensions of the ore bearing zone in the No. 2 Vein System.
- 5) A new ore zone (the "Carbonate zone") located between the No. 1 and No. 2 Vein Systems returned ore grade gold mineralization over mineable width in one out of three holes. This zone has considerable economic potential warranting further drill testing.

- 6) The presence of free gold makes accurate assaying difficult. At least two cuts are required for all samples from mineralized zone to provide a reasonable indication of mineralization present.
- 7) Surface geological and structural mapping of the immediate mine area indicate at least three major episodes have contributed to the present picture. The intrusion of the granite, the subsequent major shearing and the intrusion of the quartz porphyry have all influenced the distribution of the mineralization as presently observed.
- 8) The field examination of geophysical anomalies has identified three areas which warrant further field investigation.
- 9) The tailings sampling program indicated that the old stamp mill tailings have been reprocessed. The small tonnage of reworked remnants are uneconomic at the present time.
- 10) Drill testing of geophysical Anomaly "C" failed to locate the southern extension of the No. 1 Vein System.
- 11) The St. Anthony Gold property especially the No. 2 Vein System and the new Carbonate zone has an excellent chance of hosting an economic gold deposit and a substantial exploration effort is warranted to evaluate this potential.

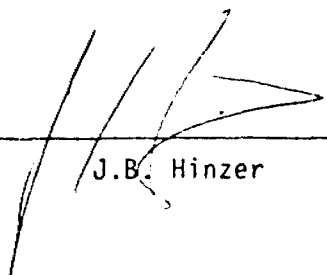
Recommendations

On the basis of the work completed to date the following recommendations are made.

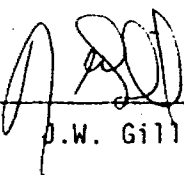
- 1) Conduct a detailed surface geological investigation during the summer of 1984 including geochemical sampling and trenching if warranted of the anomalous areas along VLF conductor "F", around sample location 9086 on line 20 S at 4 + 00 E and the gossan zone just west of magnetic Anomaly "D".
- 2) Conduct a 3 mile IP survey to evaluate magnetic Anomaly "F" and VLF-EM Anomaly "J" to identify and locate the northern extension of the shear zones hosting the mineralization at the St. Anthony Gold Mine. The survey will be conducted on lines 8 N to 44 N and must be done after freeze up as part of the survey area is under the lake.
- 3) Drill 27 holes SA-83-11-37 totalling 16,125 feet (Table V) to further test the No. 2 Vein System and the Carbonate Zone on 50 foot centres along a 400 foot strike length centred on the present zone of economic mineralization. These holes should be drilled from east to west to provide additional stratigraphic information and control
- 4) Geologically map the area south of the E-W fault which displaces the No. 1 Vein System in an effort to locate the extension of this Vein System to the south of the old mine workings.

- 5) Provided the drilling of the No. 2 Vein System proves encouraging the dewatering of the St. Anthony Mine should be considered to provide underground access. The Phase II program as outlined in the G.M. Hogg and Associates September 1981 report would then be warranted.

- 6) Provide \$575,000 to conduct this program. Table VI presents an estimated breakdown of the costs to be incurred for these purposes.



J.B. Hinzer



J.W. Gill

Introduction

On November 29, 1982 Aubet Resources Inc. contracted Halo Centrex Inc. to manage and conduct the Stage 1 evaluation program on its St. Anthony Gold Mine property as recommended by the G.M. Hogg and Associates Ltd. engineering report of September 22, 1981.

Between January 19 and March 3, 1983 Halo Centrex Inc. completed the first part of this program. Five diamond drill holes totalling 4,486 feet tested the ore producing No. 1 Vein System both along strike to the north and down dip below the existing mine workings with three of these holes also testing the parallel No. 2 Vein System. In addition 12 line miles proton magnetic and 10.5 line miles of V.L.F. electromagnetic surveying was completed to test for new exploration drill targets.

Encouraging drill results, especially on the No. 2 Vein System, and the identification of 7 magnetic and 8 electromagnetic anomalies on the property prompted additional diamond drilling and a comprehensive field investigation of the geophysical conductors. This work was carried out along with the scheduled tailings sampling program. Between May 16 and August 2, 1983 five additional drill holes totalling 3,445 feet explored the No. 1 and No. 2 Vein Systems, detailed surface geological mapping and sampling of all the favourable geophysical conductors, as well as the immediate mine area, was carried out and a total of 217 drill holes sampled the tailings area.

The drilling program outlined ore grade gold mineralization over substantial core lengths in the No. 2 Vein System and a major drill program to evaluate the ore making potential of this zone is warranted. Further investigation of 2 geochemically anomalous areas associated with geophysical conductors should be carried out.

Property Location and Access

The St. Anthony Gold Mine property lies near the north end of Sturgeon Lake, approximately 130 miles northwest of the city of Thunder Bay, Ontario, and 13 miles south of the community of Savant Lake (Figure 1).

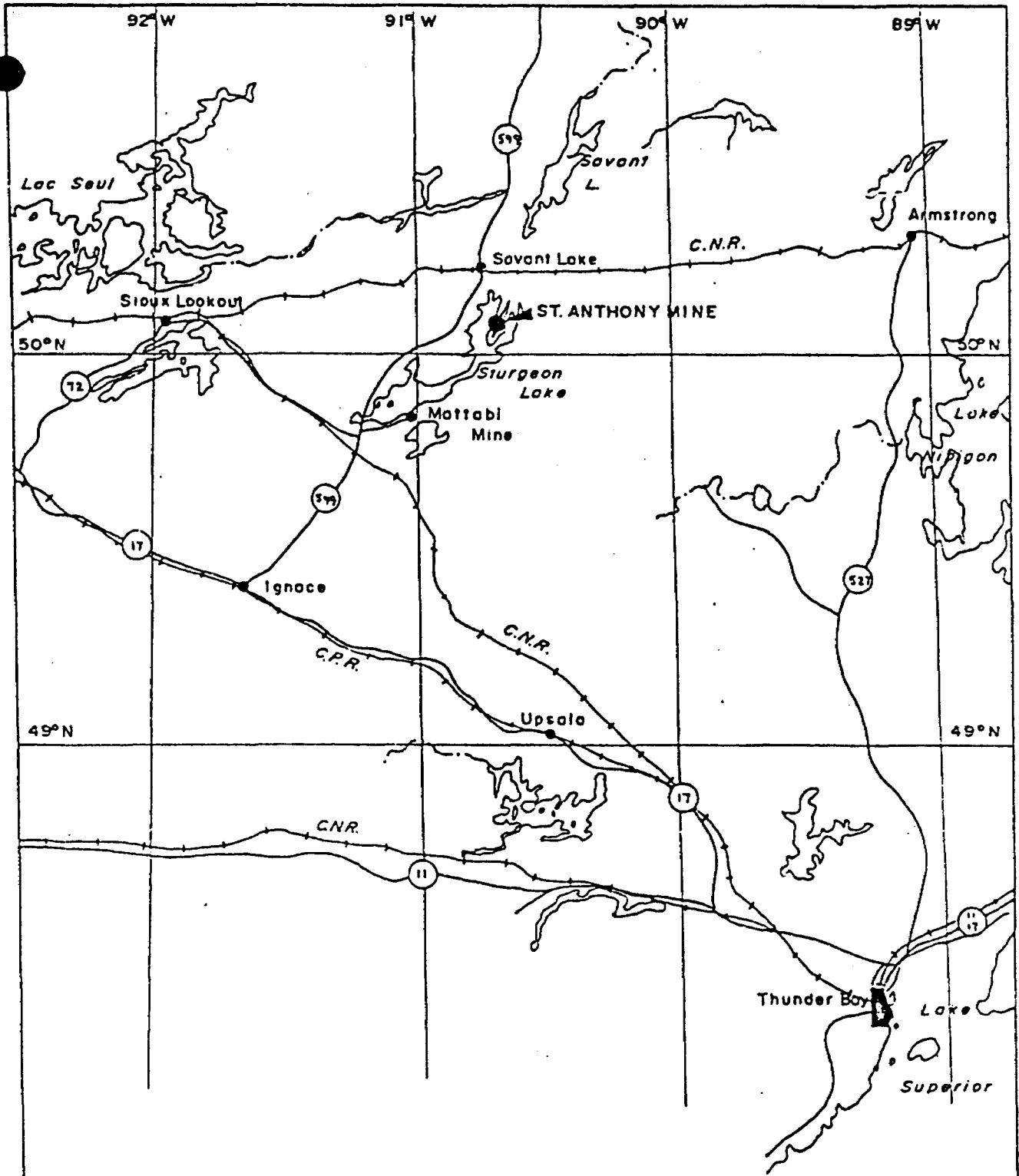
Access to the property is by paved Highway 599 north from Ignace or south from Savant Lake to within 1 mile of the northwest side of Sturgeon Lake. Numerous gravel roads provide access to Sturgeon Lake from Highway 599 and the property is then reached by boat. The Horizontal Bay road off Highway 599, 12 miles south of Savant Lake, leads to the Marie's Bay Lodge landing on Sturgeon Lake which provides for the most direct access to the property by boat. Boat rental is available at this Lodge. The property can also be reached by float or ski equipped aircraft from Ignace or Savant Lake.

An old winter road leading south from Savant Lake to the property is at present not useable, however, rehabilitation is possible if required.

Lodging can be arranged at Marie's Bay Lodge located approximately 1 mile southeast of the property and from which the property is accessible by foot along a bush road. The 1983 winter drilling program was operated out of this camp.

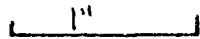
Land Position

The property consists of 13, contiguous, patented mining claims located in the Patricia Mining Division of the Thunder Bay Mining District of Ontario (Figure 2). The claims are registered in the name of Aubet Resources Inc. in the Land Titles Registry Office in Thunder Bay, Ontario, and are shown on Claim M1904 - Area of Squaw Lake. A list of the claims is presented in Appendix A to this report.

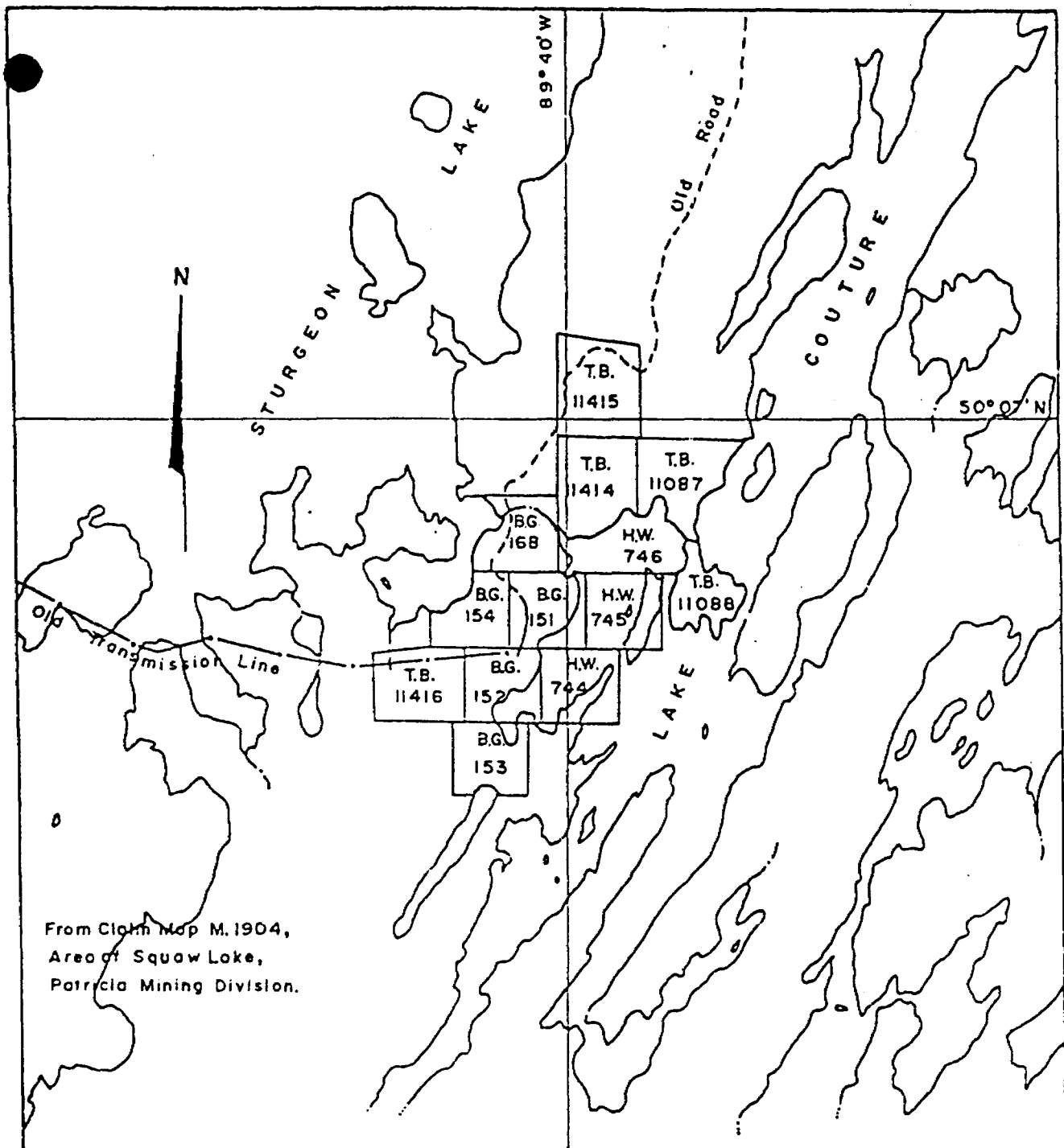


GENERAL LOCATION PLAN
OF THE ST. ANTHONY GOLD MINE PROPERTY, ONTARIO

Figure 1



SCALE 1:1,600,000 or approximately 1" = 25 miles



From Claim Map M. 1904,
 Area of Squaw Lake,
 Patricia Mining Division.

CLAIM LOCATION PLAN,
 ST. ANTHONY MINE PROPERTY

Figure 2

SCALE: 1" = 1/2 mile

1" = 1/2 mi.

Geology

The St. Anthony Gold Mine property lies within the Superior Structural Province of the Precambrian Shield of Canada and all rocks in the area are of Precambrian age. Geologically the area is characterized by a northeasterly trending belt of mafic to intermediate volcanic rocks which wrap around the eastern margin of a large granitic-granodioritic batholith to the west. Major faulting has resulted in a well developed NNE-SSW trending pattern of lake development and roughly E-W faulting has offset stratigraphy at various locations.

On the St. Anthony Gold Mine property the batholith-volcanic contact zone is apparent. A mixture of basaltic and mafic volcanic rocks, granite, diorite and granitized volcanics are observed as well as numerous shear zones and faults. Silicification, sericitization and chloritization is abundant within this mixed, contact-zone rock package and quartz veins and stringers are abundant within the shear zones. Late quartz porphyry dykes and mafic dykes cut the other rock units in the area.

A more detailed geological summary, as well as surface geological maps, of the property are given in the report of G.M. Hogg & Associates Ltd. dated September 22, 1981.

Previous Work

Between January 19 and March 3, 1983 Aubet Resources Inc. completed 4,486 feet of diamond drilling in 5 holes, 12 line miles of proton magnetic surveys and 10.5 line miles of V.L.F. electromagnetic surveys on the St. Anthony Gold Mines property. The drill program confirmed the extension of the No. 1 Vein System below the old mine workings and, although anomalous gold values were encountered, no ore grade mineralization over mineable widths was encountered. The No. 2 Vein System was intersected by three holes which extended

its strike length to at least 600 feet and its depth to at least 350 feet. An intersection of 5.3 feet grading 0.50 oz. Au per ton in hole SA-83-4 together with other anomalous gold values and previous shallow high grade intersections indicated that further drilling of this zone was warranted. The reader is referred to the April 19, 1983 report A Report On The Diamond Drilling And Geophysical Survey Work Conducted On The St. Anthony Gold Mine Property Of Aubet Resources Inc. between January 19 And March 3, 1983 by Halo Centrex Inc. for details of the previous work.

1983 Summer Work Program

During the period May 18, 1983 to August 2, 1983 a geological survey program, a 217 hole tailings sampling program, and a 5 hole, 3,445 foot diamond drilling program were completed on the St. Anthony Gold Mine property.

A. Geological Investigation of Geophysical Anomalies

The 1983 winter geophysical program outlined eight magnetic and fourteen V.L.F. electromagnetic conductors. Seven magnetic anomalies C' D' E' F' G' H' and I and eight V.L.F. anomalies were recommended for follow up work (Plate I). This geological investigation was designed to attempt to explain the cause of the anomalies from surface examination.

Magnetic and V.L.F. Anomaly "C" (Plate I) appeared to represent the southern extension of the shear zone which hosts the No. 1 Vein System of the St. Anthony mine. Surface examination revealed an easterly dipping shear zone with a narrow local gossan zone and minor quartz veining hosted in sheared intermediate volcanic tuffs. Minor graphitic bands, and local zones of pyrite, massive pyrrhotite minor sphalerite and chalcopyrite over a 20 to 30 foot core length are believed to be the cause of geophysical anomaly "C" (Plate 1).

No gold or silver values of economic interest were encountered in this hole and the No. 1 Vein System was not identified in the drill core. On the basis of this drill hole it is believed that the southern extension of the No. 1 Vein System has been offset by a fault which strikes roughly E-W through the bay in Couture Lake south of mine workings. A previously planned second drill hole to further evaluate anomaly "C" was not drilled.

Magnetic Anomaly "O" located on Line 8 + 00N at 7 + 00E lies 50-100 feet east of the granite-andesite contact (Plate I). This anomaly is underlain by pillowed andesites intruded by several narrow dioritic sills (possibly coarse flows). Narrow 1-4" quartz veins are common near the dioritic units. Rock geochemical sample No. 9084 (see Table I) collected from a 4" quartz vein assayed 0.002 oz. Au/ton. A large 10-15' wide gossan zone (previously trenched) along the granite andesite contact was too badly weathered to allow a fresh sample to be obtained. Re-trenching and sampling of this zone is recommended.

Magnetic Anomaly "E", located on Line 16 + 00 N at 8 + 00 W (Plate I), corresponded with a local scrap on garbage dump and is interpreted to be a cultural anomaly.

Magnetic Anomaly "F" and coincident V.L.F. Anomaly "J" outline a major structural feature traversing most of the property in a north westerly direction parallel to the baseline between 0 + 00 and 4 + 00 E. Traverses across these anomalies on L44 N, L40 N, L36 N, L30 N, L25 N and L16 N revealed the entire area to be underlain by pillowed andesites, locally sheared and interlayered with coarse dioritic sills (flows?). Rock geochemical samples Nos. 9095, 9096, 9097, 9098, 9099 and 9100 (see Plate I and Table I) collected from local shears, quartz veins, contact zones and gossan patches contained only background values of Au, Ag, Cu, Zn and Pb.

Magnetic Anomaly "G" and adjacent V.L.F. Anomalies "G" and "F" are located along a large peninsula in the north-east portion of the property between L28 N and L40 N from 18 + 00 E to 26 + 00 E.

Two traverses across this peninsula encountered an interlayered succession of dioritic-gabbroic-amphibolitic mafic intrusives (?) and felsic quartz-feldspar and quartz porphyries, fragmentals and cherty, locally mineralized members (see Plate I). Anomaly "G" corresponds to the eastern margin of the large central amphibolitic unit while anomaly "F" outlines an extensive shear and gossany-cherty zone within the felsic rocks.

Seven rock geochemical samples Nos. 9088-9094 were collected (Plate 1, Table I). Samples No. 9091, 9092 and 9093 were collected just south of the anomalous areas where abundant outcrop exposed revealed considerable previous trenching. Sample No. 9094 tested a narrow quartz-vein within a shear zone near a local quartz-felspar porphyry contact believed to be the same zone recently drill tested by A. Best just north of the property boundary. Sample 9093 taken from a major gossany quartz vein at the felsic-mafic volcanic rock contact assayed 0.26 oz. Au/ton, 0.18 oz. Ag/ton and 870 ppm Cu. This together with a nearby rhyolitic volcanic sample (9092) which is depleted in sodium (0.77% Na₂O), a characteristic observed in the immediate area of many ore deposits, indicate that further investigation is warranted. Samples 9088, 9089, 9090, 9091 and 9094 assayed trace or nil in precious metals and had very low base metal content.

Magnetic Anomaly "H" and V.L.F. Anomaly "E" on L12 S, L16 S and L20 S between 3 + 00 W and 5 + 00 W are underlain by a highly sheared, locally carbonitized andesite with minor sediments in the west and more pillowed, locally variolitic, andesites and dioritic sills (flows?) towards the east. Most of this area is underlain by swamp. Samples 9085 and 9086 (Plate 1, Table I) taken from the sheared and variolitic andesite respectively both showed slightly anomalous Cu and Zn values while No. 9086 was anomalous running 0.014 oz. Au/ton. This area also warrants further investigation.

Table I: Rock Geochemical Samples Assays

	<u>Au oz/ton</u>	<u>Ag ppm</u>	<u>Cu ppm</u>	<u>Zn ppm</u>	<u>Pb ppm</u>	<u>Na₂O</u>	<u>Description</u>
#9084	0.002	-	-	-	-	-	4" quartz vein in andesite 50'- 70' east of contact
#9085	NIL	NIL	170	72	-	-	Shear zone 4-5 feet wide
#9086	0.014	NIL	160	110	-	-	Variolite? in andesite flow
#9087	NIL	-	-	-	-	-	Gossany pillowed andesite
#9088	NIL	NIL	8	23	2	4.92	Quartz-felspar porphyry
#9089	TR	NIL	52	35	-	-	Gossany quartz vein in intrusive
#9090	-	-	149	75	-	-	Coarse grained - amphibolite - intrusive (Ni-100 ppm)
#9091	TR	NIL	12	42	8	3.83	Cherty - blue quartz eyes, Tr py
#9092	TR	NIL	80	24	6	0.77	Sheared felsics. Tr py
#9093	0.260	9.18	870	23	-	-	Gossan in quartz vein at contact
#9094	TR <u>Au ppb</u>	-	-	-	-	-	Quartz vein in felsic shear drilled by Alan Best
#9095	8	1.0	130	48	8	-	Pillowed andesite
#9096	5	0.5	170	21	4	-	Gossany contact andesite/diorite
#9097	4	1.0	150	52	10	-	Sheared pillowed andesite
#9098	4	0.5	74	22	2	-	Quartz-vein (in above)
#9099	4	0.5	55	49	6	-	Quartz-gossan in pillow rim
#9100	3	0.5	91	13	2	-	4" rusty quartz vein in andesite

Magnetic Anomaly "I" on L36 N at 8 + 00 E coincides with a contact between pillowed andesite and diorite. Sample number 9087 from a local quartz vein assayed nil in gold.

V.L.F. Anomaly "A" on L8 S at 6 + 00 lies in a deep channel in Couture Lake approximately 50 feet off shore. A strongly sheared carbonatized intermediate tuff exposed on shore appears to be the same material often seen in the mine dump.

V.L.F. Anomaly "I" between L8 S and L20 S from 1 + 00 E to 1 + 00 W corresponds to the sheared contact between pillowed andesite and several narrow dioritic sills.

V.L.F. Anomaly "M" located on L0 + 00 at 3 + 00 W coincides with the small pond and creek at the southwest edge of the tailings pond. DDH #SA-83-10 intersected a highly sheared zone along the andesite granite contact. No gold values were indicated.

The surface geological mapping of geophysical anomalies revealed most of the property to be underlain by pillowed andesitic lava flows. The northeast portion contains several felsic and felsic porphyritic units, while the southeast is more tuffaceous with occasional graphitic, locally barren sulfide bearing zones. Most of the eastern portion is underlain by granite.

Rock geochemical sampling encountered two areas of anomalous gold values. The area of V.L.F.-EM Anomaly "F" and magnetic Anomaly "G" should be geologically mapped in detail and trenching to properly sample the gold bearing quartz vein material exposed along the contact between the amphibolitic unit and the altered felsic volcanic should be carried out to evaluate the gold potential of this zone.

Geological mapping together with detailed sampling and trenching should also be carried out in the area of magnetic Anomaly "H" and V.L.F.-EM conductor "E" where anomalous gold and base metal values have been identified and along the granite-andesite contact northeast of the mine area near magnetic Anomaly "D" on Line 8 N where 10-15' wide gossan zone is exposed.

B. Surface Bedrock Investigation Mine Area

1. Granite Contact and Shear Zones

Outcrops in the immediate mine area shown on Map No. 2 in the G.M. Hogg report dated September 1981 were examined to outline the nature of the granite-andesite contact and the structural controls of numerous quartz veins in areas of quartz laced granite.

Detailed surface mapping of the granite-andesite contact (Plate 2A) revealed the exposed contact area to be strongly structurally controlled. The southern granite boundary appears to be strongly influenced by a series of east-west and north-south bearing structures creating a jagged block or step like shape. North-South displacements appear to be the most extensive especially those along the No. 1 and No. 2 Vein Systems. Most displacements and offsets appear to be less than 100 feet in magnitude but actual movement directions were not determined. Evidence of this structural deformation is not readily visible within the granite block, however numerous zones of quartz lacing where exposed, appear to exhibit the same structural controls.

2. Quartz Vein Orientation

The observed quartz lacing consists of two dominant sets of quartz veins oriented approximately at right angles (Plate 2A). One set trends 010-030° with a steep westerly dip and parallels the No. 1 and No. 2 Vein Systems. The second set strikes at approximately 90°-120° with a variable northerly dip averaging near 45°. Quartz

knots are often centred on these vein intersections. The large quartz vein zone north of the No. 1 shaft may represent a major intersection of veins.

The most prolific surface veining occurs north of the No. 1 shaft. The N-S Vein System average 30-65 feet in width in this area, while the E-W Vein System average 3 to 12 feet in width. A secondary zone of abundant quartz veining located southwest of the mill on the No. 2 Vein zone averages 1-3 feet in width for N-S veins and 4 inches to 1 foot for the E-W veins.

N-S veins tend to be lensoid and are concentrated along the No. 1 Vein and No. 2 Vein Systems which are major shear structures. Several lesser concentrations of minor quartz veins are located along weaker parallel shears between the No. 1 and No. 2 Vein Systems.

E-W quartz veining is restricted to the granite suggesting this to be a tensional feature resulting in brittle fracture of the more competent granite as opposed to plastic deformation in the enclosing greenstones. The most prolific development of E-W quartz veining, located just north of the No. 1 shaft, may be related to the nearby quartz porphyry intrusive.

3. Mineralization Model

The most massive quartz veining is observed in the No. 1 Vein System near the granite-andesite contact just east of the quartz porphyry intrusive (Plate 2A). The quartz veining is lensoid in nature as seen on mine section A (Plate 2B), it is most prolific along the major N-S shear zones and is most extensive near the granite-andesite contact and where N-S and E-W structures intersect. The quartz veining thus appears to be controlled at least in part by the structure, the granite-andesite contact and the quartz porphyry. Although the

absence of underground geological information prevents the establishment of a definite correlation between intersecting quartz veins and higher gold values, underground assay plans indicate that high grade gold mineralization is concentrated in local pockets along the major vein structure - with intervening areas only bearing minor gold values for the No. 1 Vein System.

Several stages of, or phases of, gold mineralization appear likely. Initial gold mineralization or re-mobilization of pre-existing gold and sulfide mineralization from a local volcanic-sedimentary basin (as proposed by Hogg 1981) occurred during the intrusion of the small granite plug localizing the minerals along the volcanic-granite contact. Subsequent major compressional forces deformed the pre-existing granite plug forcing major N-S shear planes or fault zones and creating perpendicular E-W tension fractures in the brittle granite. During this stage mineralization would be re-mobilized along quartz veins into the existing shear zones especially along the andesite granite-contact. The late intrusion of the quartz porphyry (orientation unknown) and associated dykes would act as a local heat source effecting a third re-mobilization of the existing mineralization and quartz centred on the quartz porphyry. Additional gold, sulfides and quartz may also have been introduced at this stage.

C. Tailings Sampling Program

A 217 hole tailings sampling program was carried out in two stages in an effort to locate and, if present, establish the grade and tonnage of stamp mill tailings reported to contain 37,800 tons at an average grade of 0.18 oz. Au/ton. The sampling was carried out by Sonic Soil Sampling Inc. using the Vibracore sampler which produces a continuous loggable core sample of the tailings. The sample locations are shown on Plate 3B and drill hole sections are presented in Appendix B along with the assay data.

The initial sampling program was carried out in May 1983 with holes spaced at 25 foot intervals to cover the tailings area recommended by G.M. Hogg & Associates in their report of September 22, 1982. This program identified a narrow channel covering an area of approximately 75 feet wide by 250 feet long leading northward from the mill building. Numerous high grade assays indicated that stamp mill tailings were present. Subsequent to the completion of this phase of the program an old location map showing the true location of the stamp mill tailings was obtained and this map (Plate 3A) indicated that the high grade channel identified by the initial program represented a channel leading to the tailings pond area. A follow-up program was carried out in late July 1983 and the location of the stamp mill tailings pond area was sampled on a 50 foot grid (Plate 3B). The results of this program (Appendix C) indicate that the stamp mill tailings have most likely been re-processed. Very narrow intersections of ore grade tailings were identified in a few holes which confirms that stamp mill tailings did exist in this area at one time. The evidence gathered to date strongly suggests that no significant volume of stamp mill tailings remain on the property.

The narrow channel containing stamp mill tailings outlined in the initial sampling program contains approximately 12,635 tons of tailings at an average grade of 0.062 oz. Au/ton (Table II). This tonnage represents a combination of cyanide tailings and underlying stamp mill tailings. Although uneconomic at the present price of gold by itself this reserve should be kept in mind should a gold mill be operational on the property in the future.

D. Drill Program

Five holes totalling 3,445 feet were drilled to further evaluate the St. Anthony property. Three holes were drilled to evaluate the No. 2 Vein System and provide geological and structural data. One deep hole tested the No. 1 Vein System beneath the old workings further to the north as well as the No. 2 Vein System and one shallow

Table II: Reserve Calculation - Stamp Mill Channel Area

<u>Hole #</u>	<u>Grade Au oz/ton</u>	<u>Length Feet</u>	<u>Tonnage</u>
<u>Block B</u>			
38	0.018	7.0	437
43	0.088	8.5	531
32	0.021	8.0	500
34	0.044	7.0	437
47	0.040	5.5	344
31	0.053	9.0	562
35	0.038	5.5	344
46	0.034	3.0	187
30	0.032	8.0	500
	0.055		3.662
<u>Block A</u>			
36	0.061	6.0	375
37	0.071	6.5	406
133	0.056	1.0	63
50	0.044	5.5	344
48	0.052	6.0	375
1	0.047	10.0	625
25	0.046	8.5	531
27	0.073	5.6	348
49	0.062	5.0	312
2	0.075	9.0	562
24	0.059	9.8	612
58	0.104	4.0	250
3	0.095	6.0	375
23	0.058	5.0	312
21	0.033	6.0	375
57	0.057	7.0	437
4	0.085	4.0	250
22	0.038	6.5	406
5	0.061	5.0	312
12	0.067	7.0	437
13	0.201	6.0	375
6	0.041	7.4	462
11	0.094	10.0	625
10	0.209	5.5	344
	0.065		8,973

Block A + B = 12,635 tons @ 0.062 oz. Au per ton

hole tested geophysical anomaly "C" believed to represent the extension of the No. 1 Vein System to the south.

Drill hole data is presented in Table III. Surface projections and cross sections are shown on Plates No. 1, 4, 5, 6, 7 and 8. Diamond drill logs are presented in Appendix D.

1. Drill Holes SA-83-6 (Plate 7)

Hole SA-83-6 was drilled to evaluate V.L.F. conductor "C" and coincident magnetic anomaly "C" (Plate 1) thought to represent the southward extension of the No. 1 Vein System. Andesite flow material interbedded with intermediate to felsic matavolcanic tuffs and cherty tuffite horizons were encountered. Minor graphitic shale interbedded with laminated chert and 2-10% disseminated pyrite, pyrrhotite with minor sphalerite, and chalcopryrite, were encountered between 225.0 feet and 264.0 feet. Local patches of massive pyrrhotite and mineralized graphitic shale are believed to be the cause of the anomalies. No anomalous metal values were encountered in this section and the No. 1 Vein System was not intersected in this drill hole.

2. Drill Holes SA-83-7, SA-83-8, and SA-83-9 (Plate 5 and 6)

These holes were drilled to test for the up and down dip, and strike extension of the intersection of 0.500 oz. Au/ton over 5.0 feet encountered and in hole SA-83-4, and to provide a better understanding of the stratigraphy. These holes were drilled from east to west in order to crosscut stratigraphy as well as to test the No. 2 Vein System.

Hole SA-83-7 was drilled west to intersect the No. 2, Vein System approximately 50.0 feet below the zone where 0.50 oz. Au per ton was encountered in hole SA-83-4. The hole was collared in pillowed andesite and encountered granite between 31.6 feet and 780.0 feet passing back into andesite to the end of the hole at 798.0 feet.

Table III: Drill Hole Data - SA-83-1 to SA-83-10

<u>Hole No.</u>	<u>Collar</u>	<u>Bearing</u>	<u>Dip at Top</u>	<u>Dip at Bottom</u>	<u>Total Footage</u>
<u>Winter Program</u>					
SA-83-1	2+92N, 0+60W	110°	-50°	-53°	416'
SA-83-2	0+93N, 0+27E	110°	-50°	-54°	407'
SA-83-3	3+30S, 3+57W	102°	-65°	-62°	1,108'
SA-83-4	5+52S, 3+70W	102°	-65°	-61°	1,248'
SA-83-5	6+49S, 3+46W	102°	-60°	-57°	<u>1,307'</u>
				Total	<u>4,486'</u>
<u>Summer Program</u>					
SA-83-6	20+00S, 8+00E	300°	-45°	-42°	355'
SA-83-7	3+65S, 2+85E	288°	-60°	-54°	798'
SA-83-8	3+65S, 2+85E	288°	-45°	-41°	707'
SA-83-9	4+63S, 2+85E	288°	-45°	-42°	577'
SA-83-10	1+66S, 3+03E	102°	-67°	-61°	<u>1,008'</u>
				Total	<u>3,445'</u>
TOTAL DIAMOND DRILLING 1983					<u>7,931'</u>

Two significant zones of gold mineralization were encountered associated with massive quartz veining, quartz lacing and shearing with locally 5-10% pyrite, traces of sphalerite, chalcopryrite and galena. The upper zone from 260.0 feet to 290.0 feet, the best section of which assayed 0.065 oz. Au/ton over 5.3 feet from 277.7-283.0', appears to correlate with a surface sheared carbonate zone located approximately halfway between the No. 1 and No. 2 Vein Systems. The lower zone between 660.0 feet and 690.0 feet which forms part of the No. 2 Vein System assayed 0.029 oz. Au/ton over 5.0 feet from 668.0-673.0 feet. Local buff to pink alteration, 10 to 15% pyrite and pyrrhotite and minor chalcopryrite, sphalerite and galena mineralization are localized at the transition zone from medium to fine grained (chilled margin) granite in this hole.

Hole SA-83-8 was drilled from the same set up as SA-83-7 and was designed to intersect the No. 2 Vein System approximately 250 feet up dip from SA-83-7 near where a 0.160 oz. Au/ton over 1.3 feet assay in hole SA-83-4 was encountered. The hole collared in andesite and encountered the granite, as before, from 28.0 feet to 682.7 feet then passed into andesite to the end of the hole at 707.0 feet. As in hole SA-83-7 two major zones of gold mineralization were encountered within highly altered granite characterized by local massive quartz veining, shearing and adjacent quartz lacing. Disseminate iron sulfides from 3-10% and trace sphalerite, galena and chalcopryrite are common as is bleaching and buff to pink alteration in the mineralized zones. Local quartz veining shearing, brecciation alteration (buff-pink) and sulfide patches are randomly distributed throughout the entire granite section rather than being restricted to major zones as in SA-83-7. The upper mineralized zone corresponding to the carbonate zone in SA-83-7 assayed 0.036 oz. Au/ton over 5.6 feet from 237.0-241.6 feet. The No. 2 Vein System appears to consist of two zones. One zone between 488.0-506.0 feet returned 0.011 oz. Au/ton over 15.0 feet from 487.0-502.0 feet from a strongly bleached, altered pink zone with heavy quartz veining and up to 5% pyrite. The other

zone from 610.0 to 637.0 feet is locally altered (buff coloured) with 10% dendritic pyrite and pyrrhotite between 623.0 to 633.0 feet. Gold assays of 0.22 oz per ton over 25.0 feet from 612.0 feet to 637.0 feet were obtained from this zone which contained a zone grading 0.36 oz. Au/ton over 15.0 feet from 622.0-637 feet.

Hole SA-83-9 was set up 100 feet south of SA-83-7 and SA-83-8 and was drilled to intersect the No. 2 Vein System and intersect previous hole SA-83-5. The hole cored pillowed andesite to 121.0 feet and drilled in granite for the entire remainder of the hole to 577.0 feet. As in the two preceding holes many strongly sheared quartz veined, quartz laced, locally brecciated, altered and bleached, as well as sulfide mineralized zones are scattered throughout the granite. Unlike the previous two holes, however, three quartz-porphry dikes from 5 to 15 feet wide were encountered between 217 and 330 feet. Gold mineralization was associated with heavy quartz-veining in the carbonate zone and with major shearing and alteration in the No. 2 Vein System. Assays of 0.17 oz. Au/ton over 8.1 feet from 116.3 feet to 124.4 feet and 0.13 oz. Au/ton over 5.0 feet from 152.0 to 157.0 feet come from a massive quartz vein zone with minor pyrite, sphalerite and galena in the carbonate zone. Values from the No. 2 Vein System are much lower with ranging from 0.015 to 0.022 oz Au/ton over several 4.5-5.5 foot sections between 414.0 and 527.0 feet. Although abundant quartz lacing and local pyrite cubes are present only traces of sphalerite and galena were noted in this section.

3. Drill Hole SA-83-10 (Plate 8)

Hole SA-83-10 was located approximately 100 feet north of previously drilled hole SA-83-3 and was designed to test both the northern continuation of the No. 2 Vein System near surface and the No. 1 Vein System beneath the old mine workings.

The hole was collared in granite at 18.0 feet remaining in granite to 190.4 feet except for a narrow andesite zone from 26.4 to 37.4 feet. Alternating zones of massive andesite and massive diorite were then encountered from 190.4 feet to 731.2 feet. A narrow quartz porphyry was intersected near the top of this zone from 235.2-240.0 feet. The hole remained in granite from 731.2 feet to the end of the hole at 1009.0 feet. Three weakly mineralized zones, one corresponding to the No. 2 Vein System, and two corresponding to the No. 1 Vein System were encountered. A highly sheared amphibolitized andesite at the projected No. 2 Vein System intersection assayed 0.013 oz. Au/ton over 5.0 feet from 283.0-288.0 feet. No gold values were found within the diorite zone. A strongly shear-brecciated and altered granite with massive white quartz veins and heavy pyrite and pyrrhotite from 765.0 to 783.0 feet assayed 0.014 oz. Au/ton over 7.0 feet from 776.0 to 783.0 feet. A second shear-brecciated zone locally bleached with minor pyrite pyrrhotite and traces of chalcopyrite, similar to the mineralized zones in previous DDH Nos SA-83-1 and SA-83-2 assayed only 0.012 oz. Au/ton over 7.5 feet from 992.5-1000.0 feet.

E. Additional Assaying

Additional sampling and assaying of zones adjacent to mineralized areas was recommended following the winter 1983 drilling program. 58 samples were collected and assayed from DDH Nos. SA-83-2 to 5. Five samples with anomalous gold values ranging from 0.007 to 0.017 oz. Au/ton significantly extended the previously indicated anomalous zones. The reader is referred to the diamond drill logs attached as part of Appendix D for the results.

F. Re-assays

During the reexamination of core from the highly mineralized zones (drilled during the winter of 1983) visible gold was noted in the split core from DDH No. SA-83-5 in a 3.1 foot section between

665.1-668.2 feet which assayed 0.056 oz. Au/ton. A subsequent assay on the remaining core returned only 0.049 oz. Au/ton an indication that the free gold observed was not yet sampled. Three additional re-runs from this sample assayed 0.99 oz. Au/ton, 0.97 oz. Au/ton and 0.14 oz. Au/ton. This high degree of variability (0.049-0.99 oz. Au/ton) between re-runs of the same sample is due to the nature of the gold. The free gold is not homogeneously distributed throughout the sample causing some considerable assay problems.

In consideration of this fact samples from all the mineralized sections from holes No. SA-83-1 to 10 were re-run (see drill logs and assays Appendix C and D for all assays and re-assays). The assays from the re-runs in many cases dramatically improved previously indicated values. One section in hole No. SA-83-2 was changed from 0.029 oz. Au/ton over 8.5 feet to 0.197 oz. Au/ton over 17.8 feet, in hole No. SA-83-8 a section assaying 0.09 oz. Au/ton over 30.0 feet was upgraded to 0.22 oz. Au/ton over 25.0 feet and in Hole No. SA-83-9 0.004 oz. Au/ton over 4.7 feet re-ran at 0.022 oz. Au/ton over 4.7 feet. Table IV summarizes all the mineralized zones encountered to date using the highest assay values obtained (where more than one assay per sample was available) to calculate section assays.

Discussion of Results

The 1983 summer drilling was designed to test a coincident V.L.F. and magnetic anomaly possibly representing a southern extension of the No. 1 Vein System, to further evaluate the No. 2 Vein System and to test for the No. 1 and No. 2 Vein System further to the north.

SA-83-6 encountered an extensive cherty-tuffaceous zone with minor graphite locally mineralized with pyrrhotite and sphalerite but failed to encounter any indications of the No. 1 Vein System. Further

Table IV: Zones of Mineralization

DDH SA-83-1	DDH SA-83-2	DDH SA-83-3	DDH SA-83-4	DDH SA-83-5	DDH SA-83-7	DDH SA-83-8	DDH SA-83-9	DDH SA-83-10	MINERALIZED ZONES
			$\frac{0.014}{6.5'}$ 640.0' - 648.0' $\frac{0.500}{5.3'}$ 612.1' - 617.4' $\frac{0.008}{3.8'}$ 346.4' - 350.2'	$\frac{0.197}{17.8'}$ 665.1' - 682.9' $\frac{0.031}{4.3'}$ 615.7' - 620.0' $\frac{0.160}{1.3'}$ 512.8' - 514.1' $\frac{0.016}{13.2'}$ 493.8' - 508.0' $\frac{0.058}{6.5'}$ 388.0' - 394.5'	$\frac{0.077}{2.4'}$ 373.0' - 377.0'	$\frac{0.024}{5.0'}$ 442.0' - 447.0' $\frac{0.011}{15.0'}$ 487.0' - 502.0' not tested $\frac{0.60}{5.0'}$ or $\frac{0.22}{25.0'}$ 622.0' - 612.0' - 627.0' - 637.0' $\frac{0.021}{5.0'}$ 667.0' - 672.0'	$\frac{0.019}{5.5'}$ 413.0' - 418.5' $\frac{0.015}{4.5'}$ 429.0' - 434.0' $\frac{0.022}{5.0'}$ 527.0' - 532.0'	$\frac{0.013}{5.0'}$ 283.0' - 288.0'	No. 2 V E I N Z O N E
					$\frac{0.067}{7.3'}$ 134.2' - 141.5' $\frac{0.059}{2.7'}$ 260.0' - 262.7' - 277.7' - 283.0' $\frac{0.026}{28.0'}$ 260.0' - 288.0' $\frac{0.065}{5.3'}$ 277.7' - 283.0' $\frac{0.016}{5.0'}$ 316.0' - 323.0'	$\frac{0.13}{5.0'}$ 237.0' - 241.6' $\frac{0.068}{5.0'}$ 277.0' - 282.0'	$\frac{0.17}{8.1'}$ or $\frac{0.092}{15.7'}$ 116.3' - 116.3' - 124.4' - 132.0'	C A R B O N A T E Z O N E	
$\frac{0.430}{1.7'}$ 387.2' - 388.9'	$\frac{0.035}{3.3'}$ 383.2' - 386.9'	$\frac{0.080}{2.4'}$ 771.2 - 773.6' $\frac{0.017}{10.3'}$ 841.3' - 851.6' $\frac{0.017}{8.4'}$ 910.6' - 919.0' $\frac{0.370}{2.0'}$ or $\frac{0.064}{18.8'}$ 951.8' - 953.8' $\frac{0.140}{2.1'}$ or $\frac{0.053}{9.9'}$ 1012.6' - 1014.6'	$\frac{0.018}{5.0'}$ 755.2' - 760.2' $\frac{0.011}{4.2'}$ 898.0' - 902.2' $\frac{0.016}{14.3'}$ 1131.0' - 1145.1' $\frac{0.049}{4.5'}$ 1192.8' - 1198.0'	$\frac{0.02}{15.8'}$ 784.9' - 800.7' $\frac{0.088}{3.8'}$ 968.5' - 972.3' $\frac{0.062}{6.8'}$ 1074.5' - 1081.3' $\frac{0.030}{3.3'}$ 1099.1' - 1102.4' $\frac{0.008}{44.9'}$ 1131.0' - 1136.2' $\frac{0.032}{5.2'}$ 1192.8' - 1198.0'			$\frac{0.014}{7.0'}$ 776.0' - 783.0' $\frac{0.012}{7.5'}$ 992.5' - 1000.0'	No. 1 V E I N Z O N E	

exploration to locate the No. 1 Vein zone offset by the east-west fault assumed to pass through the bay just south of the mine workings is recommended.

Holes SA-83-7, 8 and 9 tested the No. 2 Vein System for a strike length of 100 feet between the vertical depths of 350 to 600 feet and encountered local areas of economic grade gold mineralization within a 100 to 150 foot wide area centered on the No. 2 Vein-shear zone. SA-83-8 intersected 25.0 feet assaying 0.22 oz. Au/ton, and gold values in the range of 0.011-0.029 oz. Au/ton over widths ranging from 4.5 to 20 feet were encountered in the other two holes. Visible gold found in hole No. SA-83-5 and subsequent re-assaying returned 0.197 oz. Au per ton across 17.8 feet. The presence of ore grade gold mineralization over mineable widths in three (SA-83-4, 5 and 8) of the five recent holes and ore grade values over narrow widths in two shallow holes previously reported by Holbrooke (see G.M. Hogg and Associates September 1981/report) indicates that the No. 2 Vein System has the potential of hosting a substantial tonnage of ore grade mineralization.

A new mineralized zone, the "Carbonate zone", lying between the No. 1 and No. 2 Vein Systems was also encountered in these three holes. The best intersections of 0.170 oz. Au/ton over 8.1 feet and 0.13 oz. Au/ton over 5.0 feet are from hole No. SA-83-9 which drilled closest to the andesite-granite contact to the south. Values ranging from 0.065 oz. Au/ton over 5.3 feet to 0.036 oz. Au/ton over 5.6 feet were encountered in holes No. SA-83-7 and 8, 100 feet to the north.

An extensive drilling program of 27 holes for a total of 16,125 feet (Table V) is strongly recommended to further evaluate the ore making potential of the No. 2 Vein System and the new Carbonate zone.

Drill holes SA-83-7 and 8 intersected both the upper and lower andesite-granite contact. The lower contact is highly sheared and dips approximately 70° to the east. Although local brecciation and strong alteration is present no major quartz veining or mineralization is found at this contact. The north contact appears to dip steeply eastward, however this may be due to local faulting.

Table V: Proposed Diamond Drill Holes

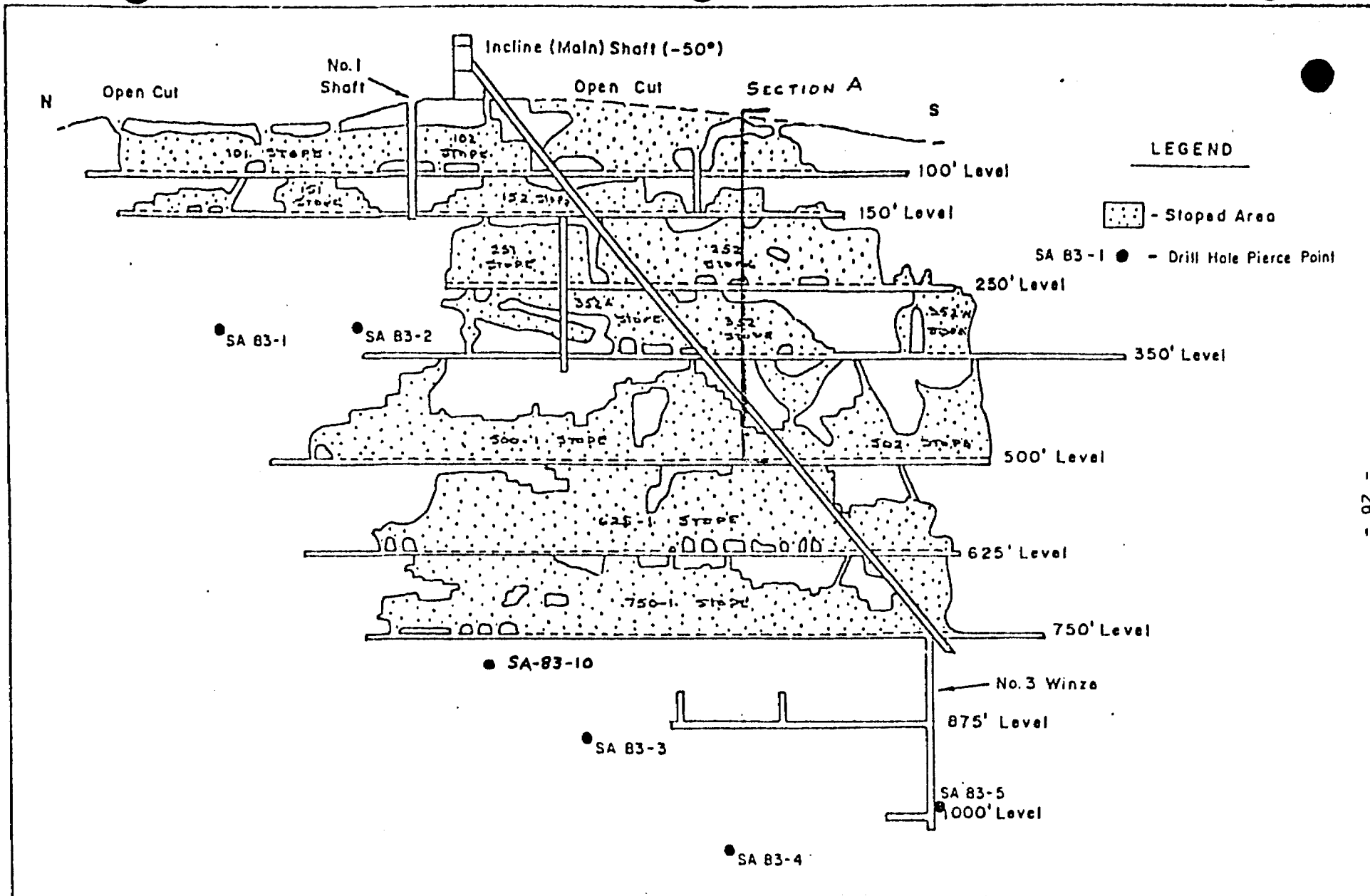
<u>Hole No.</u>	<u>Location</u>	<u>Dip</u>	<u>Bearing</u>	<u>Depth</u>	<u>Target</u>
SA-83-11	2 + 85 S - 0 + 40 E	-45°	2880	475'	No. 2 Vein Zone
12	3 + 35 S - 0 + 40 E	-45°	"	475'	" " "
13	3 + 85 S - 0 + 40 E	-45°	"	450'	" " "
14	4 + 35 S - 0 + 40 E	-45°	"	450'	" " "
15	4 + 85 S - 0 + 40 E	-45°	"	425'	" " "
16	5 + 35 S - 0 + 40 E	-45°	"	400'	" " "
17	2 + 50 S - 1 + 65 E	-45°	"	600'	" " "
18	3 + 00 S - 1 + 65 E	-45°	"	600'	" " "
19	3 + 50 S - 1 + 65 E	-45°	"	600'	" " "
20	4 + 00 S - 1 + 65 E	-45°	"	600'	" " "
21	4 + 50 S - 1 + 65 E	-45°	"	550'	" " "
22	5 + 00 S - 1 + 65 E	-45°	"	500'	" " "
23	5 + 50 S - 1 + 65 E	-45°	"	500'	" " "
24	5 + 50 S - 1 + 65 E	-60°	"	550'	" " "
25	6 + 00 S - 1 + 65 E	-45°	"	500'	" " "
26	6 + 50 S - 1 + 65 E	-60°	"	550'	" " "
27	2 + 15 S - 2 + 85 E	-45°	"	700'	No. 2 Vein Zone + Carbonate Zone
28	2 + 15 S - 2 + 85 E	-60°	"	800'	" " "
29	2 + 65 S - 2 + 85 E	-45°	"	700'	" " "
30	2 + 65 S - 2 + 85 E	-60°	"	800'	" " "
31	3 + 15 S - 2 + 85 E	-45°	"	700'	" " "
32	3 + 15 S - 2 + 85 E	-60°	"	800'	" " "
33	4 + 15 S - 2 + 85 E	-45°	"	650'	" " "
34	4 + 15 S - 2 + 85 E	-60°	"	750'	" " "
35	4 + 55 S - 3 + 15 E	-55°	"	700'	" " "
36	5 + 05 S - 3 + 15 E	-55°	"	650'	" " "
37	5 + 55 S - 3 + 15 E	-55°	"	650'	" " "
TOTAL	27 holes for			16,125 feet	

Although extensive major quartz veining is present within the granite along this contact in all three holes only hole No. SA-83-9 encountered significant gold values.

SA-83-10 intersected the No. 2 Vein System within a diorite zone similar to previous hole SA-83-3 100 feet to the south. No economic gold values were encountered. The No. 1 Vein System was penetrated at a vertical depth of approximately 800 to 850 feet (Figure 3). The shear brecciated alteration structure with minor quartz veining was intersected but no significant gold values were encountered.

Visible gold has only been observed in one hole to date SA-83-5. However the high degree of variability in many samples sent out for re-assaying indicates the presence of free gold. Inhomogeneous distribution of gold within the sample to be assayed presents a significant problem. Several assay cuts are recommended for all mineralized sections to achieve the best possible results from future programs. Table IV summarizes the mineralization encountered to date.

Generally ore grade gold mineralization is restricted to three major zones, the No. 1 and No. 2 Vein Systems and the newly recognized Carbonate Zone located in between. Surface mapping of the granite contact and the orientation of the quartz veining indicates a strong relationship to the regional structure. Quartz veining appears to be most prolific near the quartz porphyry, at the granite-andesite contact (within the major vein zones) and at the intersection of N-S and E-W structures. The best mineralization to date appears to be within the most prolific quartz veining at the granite-andesite contact within the major north-south structures. However a complete evaluation of the relationship between quartz porphyry, the granite-andesite contact and the N-S and E-W quartz veining (structures) is considered important in understanding the controls to mineralization.



LONGITUDINAL SECTION OF THE WORKINGS
OF THE ST. ANTHONY MINE TO DECEMBER, 1941

SCALE: 1" = 200 ft. 1" = 200'

Adapted from G M Hogg B Associates Ltd.,
1981 Report

Figure 3

- 07 -

The field examination of geophysical anomalies encountered one assay of 0.260 oz. Au/ton (sample No. 9093) from a quartz vein along a contact between an amphibolitic intrusive and a quartz feldspar porphyry 300 feet east of the main anomaly. Further sampling and trenching in this area is highly recommended. An assay of 0.014 oz. Au/ton (sample No. 9086) southwest of the mine area may be related to the possible faulted offset extension of the No. 1 Vein zone and requires further investigation. A large previous trenched gossan zone along the granite-andesite north of the mine area across the bay from the pump house should also be cleared out and sampled.

The extensive tailings sampling program completed indicates that the old stamp mill tailings have previously been reworked. A narrow channel of tailings probably representing the reworked remnants of the original stamp mill material has been outlined just north of the mill building. The approximately 12,000 tons grading 0.062 oz. Au/ton outlined are not economic however this material may be mineable if the St. Anthony Mine were revitalized.

Conclusions

On the basis of the work completed to date the following conclusions have been drawn:

- 1) The No. 1 Vein System from which past production has taken place is characterized by local high grade ore pockets within an en-echelon Vein System.

- 2) Drilling to date has outlined the existence of the No.1 Vein System along a 600 foot strike length, without encountering gold assays of economic grade over mineable widths. Due to the erratic nature of gold mineralization only dewatering of the shaft and underground exploration can fully evaluate its ore making potential.

- 3) The No. 2 Vein System occurs over a drill indicated length of at least 600 feet. Ore grade gold values over mineable widths in three out of five drill holes outline a mineralized zone along a 200 foot strike length extending from near surface to a depth of over 600 feet. The No. 2 Vein System has the potential to host an economic ore deposit.
- 4) Substantial further drill testing is required to define the dimensions of the ore bearing zone in the No. 2 Vein System.
- 5) A new ore zone (the "Carbonate zone") located between the No. 1 and No.2 Vein Systems returned ore grade gold mineralization over mineable width in one out of three holes. This zone has considerable economic potential warranting further drill testing.
- 6) The presence of free gold makes accurate assaying difficult. At least two cuts are required for all samples from mineralized zone to provide a reasonable indication of mineralization present.
- 7) Surface geological and structural mapping of the immediate mine area indicate at least three major episodes have contributed to the present picture. The intrusion of the granite, the subsequent major shearing and the intrusion of the quartz porphyry have all influenced the distribution of the mineralization as presently observed.
- 8) The field examination of geophysical anomalies has identified three areas which warrant further field investigation.
- 9) The tailings sampling program indicated that the old stamp mill tailings have been reprocessed. The small tonnage of reworked remnants are uneconomic at the present time.

- 10) Drill testing of geophysical Anomaly "C" failed to locate the southern extension of the No. 1 Vein System.
- 11) The St. Anthony Gold property especially the No. 2 Vein System and the new Carbonate zone has an excellent chance of hosting an economic gold deposit and a substantial exploration effort is warranted to evaluate this potential.

Recommendations

On the basis of the work completed to date the following recommendations are made.

- 1) Conduct a detailed surface geological investigation during the summer of 1984 including geochemical sampling and trenching if warranted of the anomalous areas along VLF conductor "F", around sample location 9086 on line 20 S at 4 + 00 E and the gossan zone just west of magnetic Anomaly "D".
- 2) Conduct a 3 mile IP survey to evaluate magnetic Anomaly "F" and VLF-EM Anomaly "J" to identify and locate the northern extension of the shear zones hosting the mineralization at the St. Anthony Gold Mine. The survey will be conducted on lines 8 N to 44 N and must be done after freeze up as part of the survey area is under the lake.
- 3) Drill 27 holes SA-83-11-37 totalling 16,125 feet (Table V) to further test the No. 2 Vein System and the Carbonate Zone on 50 foot centres along a 400 foot strike length centred on the present zone of economic mineralization. These holes should be drilled from east to west to provide additional stratigraphic information and control

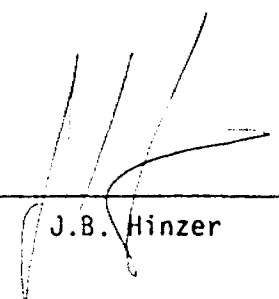
Table VI: Costs

1) Diamond Drilling Program, 16,125 feet @ \$25	\$403,125
2) Geophysics, 3 miles I.P. @ \$1,200	3,600
3) Geology, Trenching	10,000
4) Assays	27,000
5) Diamond Drill Field Supervision	20,000
6) Administration and Project Supervision	2,000
7) Travel and Expenses	24,000
8) Report Preparation, Drafting	9,000
9) Contingencies	<u>50,000</u>
	<u>TOTAL</u>
	<u>\$574,475</u>
	Say
	\$575,000

- 4) Geologically map the area south of the E-W fault which displaces the No. 1 Vein System in an effort to locate the extension of this Vein System to the south of the old mine workings.

- 5) Provided the drilling of the No. 2 Vein System proves encouraging the dewatering of the St. Anthony Mine should be considered to provide underground access. The Phase II program as outlined in the G.M. Hogg and Associates September 1981 report would then be warranted.

- 6) Provide \$575,000 to conduct this program. Table VI presents an estimated breakdown of the costs to be incurred for these purposes.



J.B. Hinzer



J.W. Gill

APPENDICIES

APPENDIX A

St. Anthony Gold Mine Property

Claim Listing

Appendix A:

St. Anthony Gold Mine Property
Claim Listing

Patented Claim Number	Parcel Number	Registered Owner
B.G. 151	2307	Aubet Resources Inc.
B.G. 152	2307	Aubet Resources Inc.
B.G. 153	2307	Aubet Resources Inc.
B.G. 154	2307	Aubet Resources Inc.
B.G. 168	692	Aubet Resources Inc.
H.W. 744	7316	Aubet Resources Inc.
H.W. 745	7316	Aubet Resources Inc.
H.W. 746	7316	Aubet Resources Inc.
T.B. 11087	3414	Aubet Resources Inc.
T.B. 11088	3413	Aubet Resources Inc.
T.B. 11414	3417	Aubet Resources Inc.
T.B. 11415	3418	Aubet Resources Inc.
T.B. 11416	3419	Aubet Resources Inc.

APPENDIX B

Tailing Sampling Drill

Hole Cross Sections

Plates 3C - 3L

(See Pocket #3)

APPENDIX C

ASSAYS

- (i) Tailings Assays
- (ii) Additional Assays
- (iii) Re Assays
- (iv) Assays
- (v) Rock Geochemical

TAILINGS SAMPLES

SAMPLE	AU PPB	AU OZ/TON	CU PPM	CU %	ZN PPM
6A-1	--	0.012	.015	--	--
6A-2	--	0.018		--	--
6B-1	--	0.064	.069*	--	--
6B-2	--	0.074		--	--
6C-1	--	0.014	.014	--	--
6C-2	--	0.013		--	--
11A-1	--	0.024	.021	--	--
11A-2	--	0.018		--	--
11B-1	--	0.300	.22	--	--
11B-2	--	0.140		--	--
11C-1	--	0.080	.115	--	--
11C-2	--	0.150		--	--
14A-1	--	0.008	.014	--	--
14A-2	--	0.021		--	--
14B-1	--	0.029	.035	--	--
14B-2	--	0.041		--	--
16A-1	--	0.400	.244	--	--
16A-2	--	0.088		--	--
33A-1	--	0.015	.016	--	--
33A-2	--	0.016		--	--
33B-1	--	0.023	.018	--	--
33B-2	--	0.013		--	--
33C-1	--	0.033	.034	--	--
33C-2	--	0.036		--	--
38A-1	--	0.013	.015	--	--
38A-2	--	0.016		--	--
38B-1	--	0.240	.235	--	--
38B-2	--	0.230		--	--
41A-1	--	0.010	.013	--	--
41A-2	--	0.015		--	--
41B-1	--	0.100	.110	--	--
41B-2	--	0.120		--	--
55A-1	--	0.007	.008	--	--
55A-2	--	0.010		--	--
55B-1	--	0.022	.022	--	--
55B-2	--	0.021		--	--
59A-1	--	0.021	.026	--	--
59A-2	--	0.031		--	--
59B-1	--	0.028	.026	--	--
59B-2	--	0.024		--	--
81A-1	--	0.003	.004	--	--
81A-2	--	0.005		--	--
81B-1	--	0.006	.007	--	--
81B-2	--	0.007		--	--
82A-1	--	TRACE	TR	--	--
82A-2	--	TRACE		--	--
82B-1	--	0.006	.006	--	--
82B-2	--	0.005		--	--
83A-1	--	0.004	.004	--	--
83A-2	--	0.004		--	--
83B-1	--	0.004	.004	--	--
83B-2	--	0.003		--	--

TAILINGS SAMPLES

X-RAY ASSAY LABORATORIES 18-JUL-83 REPORT 18215 REF.FILE 13894-12 PAGE 7 OF 11

SAMPLE	AU OZ/TON
1A	0.027
2A	0.032
3A	0.029
4A	0.100
5A	0.061
7A	0.033
8A	0.012
9A	0.070
10A	0.036
12A	0.066
13A	0.027
15A	0.009
17A	0.017
18A	0.041
19A	0.014
20A	0.006
21A	0.010
22A	0.021
23A	0.059
24A	0.016
25A	0.014
26A	0.010
27A	0.014
28A	0.044
29A	0.003
30A	0.014
31A	0.026
32A	0.013
34A	0.010
35A	0.038
36A	0.011
37A	0.018
39A	0.030
40A	0.016
42A	0.015
43A	0.012
44A	0.016
45A	0.027
46A	0.024
47A	0.013
48A	0.029
49A	0.017
50A	0.021
51A	0.019
52A	0.024
53A	0.017
54A	0.007
56A	0.029
57A	0.025
58A	0.071

TAILINGS SAMPLES

X-RAY ASSAY LABORATORIES 18-JUL-83 REPORT 18215 REF.FILE 13894-12 PAGE 8 OF 11

SAMPLE	AU OZ/TON
60A	0.007
61A	0.009
62A	0.012
63A	0.010
64A	0.012
65A	0.090
66A	0.430
67A	0.009
68A-	0.005
69A-	0.008
71A	0.005
72A	0.003
73A	0.007
74A	0.004
75A	0.005
76A	0.003
77A	0.002
78A	0.007
79A	0.007
80A	0.023
84A	0.007
86A	0.018
87A	0.007
88A	0.007
89A	0.006
90A	0.010
91A	0.007
92A	0.016
93A	0.010
94A	0.011
95A	0.019
96A	0.012
97A	0.006
98A	0.008
99A	0.006
100A	0.004
101A	0.005
102A	0.014
103A	0.017
18	0.014
28	0.027
38	0.091
48	0.071
58	0.062
78	0.016
88	0.033
98	0.240
108	0.098
128	0.071
138	1.070

TAILINGS SAMPLES

X-RAY ASSAY LABORATORIES 18-JUL-83 REPORT 18215 REF.FILE 13894-12 PAGE 9 OF 11

SAMPLE AU OZ/TON

SAMPLE	AU OZ/TON
1881	0.019
1882	0.019
198	0.012
208	0.050
218	0.150
228	0.081
238	0.054
248	0.069
258	0.034
268	0.016
278	0.140
288	0.008
308	0.031
318	0.022
328	0.050
348	0.041
358	0.018
368	0.013
378	0.190
398	0.023
408	0.024
428	0.038
438	0.280
448	0.060
458	0.031
478	0.110
488	0.140
498	0.120
508	0.084
518	0.050
528	0.037
538	0.013
548	0.013
568	0.008
578	0.050
588	0.160
608	0.011
628	0.008
638	0.017
658	0.014
668	0.008
688 -	0.005
728	0.012
738	0.120
758	0.007
768	0.003
778	0.007
798	0.009
848	0.004
868	0.021

TATLINGS SAMPLES

X-RAY ASSAY LABORATORIES 18-JUL-83 REPORT 18215 REF.FILE 13894-12 PAGE 10 OF 11

SAMPLE	AU OZ/TON
87B	0.009
88B	0.025
90B	0.005
91B	0.037
92B	0.016
93B	0.017
94B	0.042
95B	0.031
96B	0.020
97B	0.010
98B	0.048
99B	0.008
100B	0.010
101B	0.008
102B	0.022
103B	0.016
1C	0.088
2C	0.097
3C	0.710
5C	0.008
10C	0.640
19C	0.015
22C	0.067
24C	0.091
25C	0.098
26C	0.014
30C	0.073
31C	0.023
32C	0.041
34C	0.560
35C	0.018
36C	0.090
40C	0.048
42C	0.007
43C	0.086
49C	0.097
53C	0.085
54C	0.022
57C	0.130
68C	0.003
72C	0.005
73C	0.027
77C	0.001
79C	0.003
86C	0.012
87C	0.016
88C	0.032
90C	0.022
92C	0.150
93C	0.019

TATLINGS SAMPLES

X-RAY ASSAY LABORATORIES 18-JUL-83 REPORT 18215 REF.FILE 13894-12 PAGE 11 OF 11

SAMPLE	AU OZ/TON
94C	0.026
1D	0.061
2D	0.440
18D	0.013
19D	TRACE
31D	0.049
34D	0.013
36D	0.150
40D	0.006
54D	0.046
57D	0.150
87D	0.021
90D	0.081
91D	0.007
1E	0.005
2E	0.140
31E	0.240
91E	TRACE

TAILINGS SAMPLES

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX C6-986947

CERTIFICATE OF ANALYSIS

TO: HALO CENTREX INC
ATTN: JIM GILL
330 BAY STREET, SUITE 1608
TORONTO, ONTARIO
M5H 2S8

CUSTOMER NO. 582

DATE SUBMITTED
4-AUG-83

REPORT 18661

REF. FILE 14410-M1

258 SOIL

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AL CZ/TCN	FA	0.001

DATE 24-AUG-83

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY

TAILINGS SAMPLES

X-RAY ASSAY LABORATORIES 24-AUG-83 REPORT 18661 REF. FILE 1441C-M1 PAGE 1 OF 6

SAMPLE AU OZ/TON

SAMPLE	AU OZ/TON
1C4A	0.028
1C4B	0.011
1C5A	0.015
1C5B	0.021
1C5C	0.009
1C6A	0.014
1C6B	0.004
1C7A	0.017
107B	0.006
1C8A	0.015
1C8B	0.008
1C8C	0.012
1C9A	0.012
1C9B	0.002
109C	0.018
110A	0.007
110B	0.010
111A	0.013
111B	0.008
111C	0.011
111D	0.010
112A	0.015
112B	0.014
113A	0.023
113B	0.015
114	0.018
115A	0.014
115B	TRACE
115C	0.008
116A	0.009
116B	0.015
116C	0.023
117A	0.011
117B	0.008
117C	0.023
118A	0.007
118B	0.017
118C	0.031
119A	0.014
119B	0.018
119C	0.010
119D	0.008
120A	0.010
120B	0.012
121A	0.014
121B	0.011
121C	0.007
122A	0.023
122B	0.014
123A	0.000

TAILINGS SAMPLES

X-RAY ASSAY LABORATORIES 24-AUG-83 REPORT 18661 REF.FILE 1441C-M1 PAGE 2 OF 6

SAMPLE AU OZ/TON

SAMPLE	AU OZ/TON
1232	0.005
123C	0.015
123C	0.055
124A	0.012
124B	0.012
125A	0.004
125B	0.091
125C	0.009
126A	0.011
126B	0.009
127A	0.003
127B	0.013
128A	0.007
128B	0.013
129A	0.008
129B	0.042
130A	0.013
130B	0.017
130C	0.015
131A	0.012
131B	0.006
131C	0.011
132A	0.015
132B	0.016
133	0.056
134	0.013
135	0.005
136	0.007
137	0.022
138	0.017
139	0.017
140	0.007
141A	0.021
141B	0.017
142	0.021
143	0.140
144A	0.011
144B	0.024
145A	0.023
145B	0.026
146	0.010
147	0.010
148A	0.012
148B	0.010
149A	0.011
149B	0.007
150	0.010
151A	0.013
151B	0.004
151C	0.053

TAILINGS SAMPLES

X-RAY ASSAY LABORATORIES 24-AUG-83 REPORT 18661 REF. FILE 1441C-M1 PAGE 3 OF 6

SAMPLE AU OZ/TON

SAMPLE	AU OZ/TON
152A	0.007
152B	0.010
152C	0.021
153A	0.007
153B	0.004
154A	0.013
154B	0.015
154C	0.019
155A	0.008
155B	0.009
155C	0.020
156A	0.005
156B	0.008
157A	0.005
157B	0.016
158	0.020
159A	0.007
159B	0.015
160A	0.067
160B	0.005
161A	0.008
161B	0.035
162A	0.005
162B	0.004
163A	0.005
163B	0.006
164A	0.003
164B	0.018
165A	0.004
165B	0.004
166A	0.006
166B	0.004
167A	0.004
167B	0.010
168	0.004
169A	0.009
169B	0.014
169C	0.026
170A	0.009
170B	0.030
170C	0.110
171A	0.008
171B	0.018
172A	0.005
172B	0.014
173A	0.013
173B	0.017
174A	0.008
174B	0.010
174C	0.031

TAILINGS SAMPLES

X-RAY ASSAY LABORATORIES 24-AUG-83 REPORT 18661 REF. FILE 14410-M1 PAGE 4 OF 6

SAMPLE AU OZ/TON

SAMPLE	AU OZ/TON
175A	0.008
175B	0.003
175C	0.039
176A	0.005
176B	0.022
177A	0.011
177B	0.030
177C	0.150
177C	0.220
178A	0.020
178B	0.017
178C	0.170
176C	0.110
179A	0.020
179B	0.015
180A	0.021
180B	0.009
181A	0.013
181B	0.019
181C	0.012
182A	0.018
182B	0.013
182C	0.014
183A	0.009
183B	0.025
183C	0.033
184A	0.022
184B	0.023
185A	0.015
185B	0.018
185C	0.013
186A	0.020
186B	0.022
186C	0.042
187A	0.006
187B	0.016
187C	0.066
188A	0.005
188B	0.007
189A	0.009
189B	0.013
190A	0.012
190B	0.057
191A	0.017
191B	0.006
192A	0.019
192B	TRACE
193A	0.006
193B	0.017
193C	0.067

TAILINGS SAMPLES

X-RAY ASSAY LABORATORIES 24-AUG-83 REPORT 18661 REF. FILE 1441C-M1 PAGE 5 OF 6

SAMPLE AU OZ/TON

194A	0.007
194B	0.017
195A	0.005
195B	0.013
196A	0.009
196B	0.012
197A	0.008
197B	0.013
198A	0.006
198B	0.007
198C	0.059
199A	0.011
199B	0.012
200A	0.035
200B	0.017
201A	0.005
201B	0.008
201C	0.055
202A	0.004
202B	0.009
202C	0.084
203A	0.012
203B	0.014
203C	0.083
204A	0.013
204B	0.101
205A	0.016
205B	0.020
206A	0.010
206B	0.005
206C	0.040
207A	0.008
207B	0.012
208A	0.005
208B	0.011
208C	0.054
209A	0.005
209B	0.010
210A	0.011
210B	0.021
211A	0.010
211B	0.008
211C	0.073
211D	0.073
212A	0.007
212B	0.015
213A	0.005
213B	0.029
213C	0.080
214A	0.006

TAILINGS SAMPLES

X-RAY ASSAY LABORATORIES 24-AUG-83 REPORT 18661 REF.FILE 1441C-M1 PAGE 6 OF 6

SAMPLE AU OZ/TON

214B	0.013
214C	0.102
215A	0.020
215B	0.011
216A	0.005
216B	0.013
216C	0.051
217	0.011

ADDITIONAL ASSAYS

X-RAY ASSAY LABORATORIES 21-JUN-83 REPORT 17972 REL. FILE 15007-05 PAGE

SAMPLE	AU PPB	AU OZ/TON	CU PPM	CU %	ZN PPM
9025	--	NIL	--	--	--
9026	--	NIL	--	--	--
9027	--	NIL	--	--	--
9028	--	NIL	--	--	--
9029	--	TRACE	--	--	--
9030	--	0.017	--	--	--
9031	--	0.001	--	--	--
9032	--	TRACE	--	--	--
9033	--	TRACE	--	--	--
9034	--	0.002	--	--	--
9035	--	0.011	--	--	--
9036	--	0.002	--	--	--
9037	--	0.002	--	--	--
9038	--	TRACE	--	--	--
9039	--	NIL	--	--	--
9040	--	NIL	--	--	--
9041	--	NIL	--	--	--
9042	--	NIL	--	--	--
9043	--	0.002	--	--	--
9044	--	NIL	--	--	--
9045	--	0.004	--	--	--
9046	--	TRACE	--	--	--
9047	--	NIL	--	--	--
9048	--	NIL	--	--	--
9049	--	TRACE	--	--	--
9050	--	0.004	--	--	--
9051	--	0.004	--	--	--
9052	--	0.001	--	--	--
9053	--	NIL	--	--	--
9054	--	0.005	--	--	--
9055	--	0.003	--	--	--
9056	--	0.002	--	--	--
9057	--	0.001	--	--	--
9058	--	NIL	--	--	--
9059	--	0.002	--	--	--
9060	--	0.002	--	--	--
9061	--	0.001	--	--	--
9062	--	0.002	--	--	--
9063	--	NIL	--	--	--
9064	--	NIL	--	--	--
9065	--	0.001	--	--	--
9066	--	TRACE	--	--	--
9067	--	0.002	--	--	--
9068	--	0.001	--	--	--
9069	--	0.002	--	--	--
9070	--	0.001	--	--	--
9071	--	0.002	--	--	--
9072	--	0.004	--	--	--
9073	--	0.012	--	--	--
9074	--	0.001	--	--	--
9075	--	0.007	--	--	--
9076	--	0.001	--	--	--
9077	--	0.003	--	--	--
9078	--	0.004	--	--	--
9079	--	0.004	--	--	--
9080	--	0.008	--	--	--
9081	--	0.003	--	--	--
9082	--	0.013	--	--	--

RE-ASSAYS

X-RAY ASSAY LABORATORIES 11-AUG-83 REPORT 19504 REF.FILE 14325-33 PAGE 1 OF 4

SAMPLE AU OZ/TON

703	0.017
704	TRACE
711	NIL
752	0.002
803	0.012
804	0.003
805	0.001
806	0.001
807	0.089
808	0.003
809	0.007
810	NIL
811	0.280
812	TRACE
813	NIL
814	0.002
815	0.002
816	TRACE
817	NIL
818	NIL
819	0.003
820	0.002
821	0.014
822	0.020
823	0.064
824	0.001
881	0.036
882	0.011
893	0.067
894	0.001
900	0.001
901	0.021
902	0.002
922	0.004
923	0.001
929	0.002
930	0.007
931	TRACE
952	0.013
953	0.001
954	0.001
955	0.003
956	0.005
957	0.006
958	0.026
959	0.006
960	0.001
961	0.002
962	0.002
963	0.001

RE-ASSAYS

X-RAY ASSAY LABORATORIES 11-AUG-83 REPORT 18504 REF. FILE 14325-83 PAGE 2 LF 4

SAMPLE AU OZ/TON

SAMPLE	AU OZ/TON
954	0.001
1526	TRACE
1527	TRACE
1528	0.066
1547	0.001
1548	0.029
1549	0.007
1550	0.020
1551	0.002
1552	0.065
1553	0.010
1554	TRACE
1512	0.001
1613	0.002
1614	0.007
1615	0.009
1616	0.013
1617	0.005
1630	0.001
1675	0.001
1676	TRACE
1706	0.003
1707	0.024
1708	0.002
1713	0.010
1714	0.011
1715	0.010
1725	0.022
1726	0.015
1727	0.600
1728	0.009
1729	0.460
1730	0.001
1746	0.220
1747	0.004
1748	0.010
1749	0.006
1753	NIL
1754	0.110
1774	0.024
1796	0.012
1797	0.001
1808	0.002
1819	0.014
1839	0.005
1875	0.002
1876	0.002
1877	0.016
1878	TRACE
1910	0.001

RE-ASSAYS

X-RAY ASSAY LABORATORIES 11-AUG-83 REPORT 18504 REF. FILE 14325-83 PAGE 3 OF 4

SAMPLE AU OZ/TON

8936	0.002
8937	0.001
8938	0.002
8943	0.007
8944	0.035
8945	0.003
8946	0.007
8947	0.005
8948	0.083
8949	0.003
8950	0.003
8951	0.003
8962	0.001
8963	0.002
8964	NIL
8965	0.001
8980	NIL
8981	0.047
8982	NIL
8993	0.095
8995	TRACE
8996	0.030
8997	0.004
8998	0.007
8999	0.013
9001	0.004
9002	0.001
9003	0.001
9004	0.017
9005	0.009
9006	0.003
9007	0.015
9008	0.003
9031	0.015
9032	TRACE
9033	0.001
9034	0.003
9040	TRACE
9041	TRACE
9042	TRACE
9043	0.001
9044	TRACE
9045	TRACE
9046	TRACE
9047	0.001
9048	TRACE
9049	0.003
9056	0.001
9060	0.002
9061	TRACE

RE-ASSAYS

X-RAY ASSAY LABORATORIES 11-AUG-63 REPORT 18504 REF. FILE 14325-B3 PAGE 4 OF 4

SAMPLE AU OZ/TON

9062	0.002
9069	0.002
9073	0.013
9074	0.001
9075	0.009
9076	0.002
9077	0.003
9078	0.007
9079	0.005
9080	0.006
9081	0.003

SAMP	ZN %	AG PPM	AG OZ/TON	PB PPM	PB %
1502	0.04	--	NIL	--	NIL
1503	TRACE	--	NIL	--	NIL
1504	TRACE	--	NIL	--	NIL
1505	TRACE	--	TRACE	--	NIL
1506	TRACE	--	NIL	--	NIL
1507	0.01	--	NIL	--	NIL
1508	TRACE	--	NIL	--	NIL
1509	--	--	--	--	--
1510	--	--	--	--	--
1511	--	--	--	--	--
1512	--	--	--	--	--
1513	--	--	--	--	--
1514	--	--	--	--	--
1515	--	--	--	--	--
1516	--	--	--	--	--
1517	--	--	--	--	--
1518	--	--	--	--	--
1519	--	--	--	--	--
1520	--	--	--	--	--
1521	--	--	--	--	--
1522	--	--	--	--	--
1523	--	--	--	--	--
1524	--	--	--	--	--
1525	--	--	--	--	--
1526	--	--	--	--	--
1527	--	--	--	--	--
1528	--	--	--	--	--
1529	--	--	--	--	--
1530	--	--	--	--	--
1531	--	--	--	--	--
1532	--	--	--	--	--
1533	--	--	--	--	--
1534	--	--	--	--	--
1535	--	--	--	--	--
1536	--	--	--	--	--
1537	--	--	--	--	--
1538	--	--	--	--	--
1540	--	--	--	--	--

SAMPLE	AU OZ/TON
1501	0.049

SAMPLE	AU OZ/TON
1501A-PULP	0.970
1501B-PULP	0.032
1501C-REJECT	0.990
1501D-REJECT	0.140

ASSAYS

X-RAY ASSAY LABORATORIES 29-JUN-83 REPORT 18072 REF. FILE 13785-M2 PAGE 1

SAMPLE	AU OZ/TONAG	OZ/TONSAMPLE	AU OZ/TONAG	OZ/TON
1539	0.002	--	1592	NIL
1541	0.001	--	1593	TRACE
1542	0.004	--	1594	0.002
1543	0.008	--	1595	TRACE
1544	TRACE	--	1596	TRACE
1545	0.001	--	1597	NIL
1546	TRACE	--	1598	0.001
1547	0.001	--	1599	0.002
1548	0.059	--	1600	0.002
1549	0.013	--	1601	0.001
1550	0.011	--	1602	0.002
1551	0.002	--	1603	NIL
1552	0.015	--	1604	0.003
1553	0.013	--	1605	0.001
1554	0.002	--	1606	NIL
1555	NIL	--	1607	0.003
1556	0.001	--	1608	NIL
1557	0.003	--	1609	0.001
1558	NIL	--	1610	0.002
1559	0.005	--	1611	NIL
1560	0.016	--	1612	0.003
1561	0.002	--	1613	0.029
1562	0.002	--	1614	0.016
1563	0.002	--	1615	0.005
1564	0.003	--	1616	0.010
1565	0.002	--	1617	0.002
1566	0.003	--	1618	0.001
1567	0.001	--	1619	0.004
1568	0.003	--	1620	0.002
1569	0.003	--	1621	0.001
1570	NIL	--	1622	0.002
1571	0.002	--	1623	0.002
1572	0.003	--	1624	0.004
1573	0.003	--	1625	0.004
1574	0.001	--	1626	NIL
1575	0.002	--	1627	NIL
1576	0.004	--	1628	TRACE
1577	TRACE	--	1629	NIL
1578	0.001	--	1630	0.005
1579	0.006	--	1631	NIL
1580	0.001	--	1632	TRACE
1581	0.001	--	1633	NIL
1582	0.002	--	1634	NIL
1583	0.001	NIL	1635	0.004
1584	0.002	--	1636	NIL
1585	0.001	--	1637	0.005
1586	0.001	--	1638	TRACE
1587	TRACE	--	1639	0.001
1588	TRACE	--	1640	0.007
1589	TRACE	--	1641	0.002
1590	TRACE	--	1642	0.004
1591	NIL	--		

ASSAYS

X-RAY ASSAY LABORATORIES 18-JUL-83 REPORT 18215 REF.FILE 13894-12 PAGE 1 OF 11

SAMPLE	AU OZ/TON
1643	0.011
1644	NIL
1645	0.002
1647	0.006
1648	NIL
1649	0.005
1650	0.001
1651	0.005
1652	TRACE
1653	NIL
1654	0.002
1655	0.002
1656	NIL
1657	0.002
1658	0.001
1659	NIL
1660	0.001
1661	NIL
1662	TRACE
1663	0.001
1664	NIL
1665	NIL
1666	TRACE
1667	TRACE
1668	NIL
1669	0.001
1670	NIL
1671	0.001
1672	0.003
1673	0.006
1674	0.003
1675	0.036
1676	0.002
1677	0.001
1678	0.004
1679	0.001
1680	0.002
1681	0.004
1682	0.001
1683	0.001
1684	0.003
1685	0.001
1686	NIL
1687	0.003
1688	0.003
1689	NIL
1690	TRACE
1691	0.003
1692	NIL
1693	0.006

ASSAYS

X-RAY ASSAY LABORATORIES 18-JUL-83 REPORT 18215 REF. FILE 13894-12 PAGE 2 OF 11

SAMPLE	AU OZ/TON
1694	0.003
1695	0.004
1696	0.002
1697	0.002
1698	0.002
1699	0.002
1700	0.004
1701	0.004
1702	0.004
1703	TRACE
1704	0.003
1705	0.005
1706	0.002
1707	0.024
1708	0.002
1709	0.002
1710	0.003
1711	0.001
1712	TRACE
1713	0.009
1714	0.003
1715	0.013
1716	0.002
1717	NIL
1718	0.004
1719	0.005
1720	0.002
1721	0.001
1722	TRACE
1723	0.005
1724	TRACE
1725	0.012
1726	0.005
1727	0.520
1728	0.002
1729	0.010
1730	0.005
1731	0.001
1732	TRACE
1733	0.002
1734	NIL
1735	0.001
1736	0.021
1737	0.003
1738	0.002
1739	NIL
1740	NIL
1741	0.003
1742	0.003
1743	0.002

ASSAYS

X-RAY ASSAY LABORATORIES 18-JUL-83 REPORT 18215 REF.FILE 13894-12 PAGE 3 OF 11

SAMPLE AU OZ/TGN

SAMPLE	AU OZ/TGN
1744	NIL
1745	NIL
1746	0.049
1747	0.010
1748	0.007
1749	0.010
1750	0.002
1751	0.007
1752	TRACE
1753	0.002
1754	0.130
1755	TRACE
1756	0.002
1757	0.001
1758	TRACE
1759	0.002
1760	0.001
1761	0.006
1762	0.004
1763	NIL
1764	NIL
1765	NIL
1766	NIL
1767	0.002
1768	0.003
1769	0.009
1770	TRACE
1771	0.001
1772	0.001
1773	0.003
1774	0.068
1775	0.002
1776	0.001
1777	TRACE
1778	0.003
1779	0.001
1780	0.002
1781	0.013
1782	NIL
1783	TRACE
1784	0.003
1785	TRACE
1786	0.002
1787	0.002
1788	0.002
1789	NIL
1790	0.005
1791	NIL
1792	TRACE
1793	0.001

ASSAYS

X-RAY ASSAY LABORATORIES 18-JUL-83 REPORT 18215 REF.FILE 13894-12 PAGE 4 OF 11

SAMPLE AU OZ/TON

1794	TRACE
1795	0.019
1796	0.015
1797	TRACE
1798	0.001
1799	NIL
1800	0.008
1801	0.004
1802	0.003
1803	0.003
1804	0.006
1805	0.004
1806	0.001
1807	0.006
1808	0.022
1809	0.002
1810	0.002
1811	TRACE
1812	0.003
1813	NIL
1814	0.002
1815	0.006
1816	0.006
1817	0.002
1818	NIL
1819	0.016
1820	0.001
1821	NIL
1822	0.004
1823	0.003
1824	0.001
1825	0.002
1826	0.001
1827	NIL
1828	0.004
1829	0.001
1830	0.006
1831	0.002
1832	TRACE
1833	NIL
1834	NIL
1835	0.003
1836	NIL
1837	NIL
1838	NIL
1839	0.013
1840	NIL
1841	NIL
1842	NIL
1843	0.001

ASSAYS

X-RAY ASSAY LABORATORIES 18-JUL-83 REPORT 18215 REF. FILE 13894-12 PAGE 5 OF 11

SAMPLE	AU OZ/TON
1844	0.005
1845	NIL
1846	NIL
1847	0.009
1848	NIL
1849	NIL
1850	NIL
1851	NIL
1852	TRACE
1853	NIL
1854	NIL
1855	0.001
1856	NIL
1857	NIL
1858	NIL
1859	NIL
1860	NIL
1861	NIL
1862	NIL
1863	NIL
1864	NIL
1865	NIL
1866	0.001
1867	NIL
1868	NIL
1869	0.003
1870	0.002
1871	0.002
1872	0.014
1873	TRACE
1874	TRACE
1875	0.002
1876	0.011
1877	0.009
1878	0.002
1879	0.003
1880	0.002
1881	0.002
1882	0.001
1883	0.005
1884	0.004
1885	0.003
1886	0.001
1887	0.002
1888	0.001
1889	0.001
1890	0.002
1891	0.001
1892	0.002
1893	0.002

ASSAYS

X-RAY ASSAY LABORATORIES 18-JUL-83 REPORT 18215 REF.FILE 13894-12 PAGE 6 OF 11

SAMPLE	AU OZ/TON
1894	TRACE
1895	TRACE
1896	0.004
1897	TRACE
1898	0.001
1899	TRACE
1900	TRACE
1901	TRACE
1902	NIL
1903	0.002
1904	0.001
1905	0.001
1906	0.001
1907	0.001
1908	0.001
1909	TRACE
1910	0.012
1911	0.003
1912	TRACE
1913	0.020

ROCK GEOCHEMICAL

X-RAY ASSAY LABORATORIES 19-JUL-83 REPORT 18225 REF. FILE 13920-16 PAGE 2 OF 2

SAMPLE	ZN PPM	AG OZ/TON	PB PPM
9084	--	--	--
9085	72.0	NIL	--
9086	110.	NIL	--
9087	--	--	--
9088	23.0	NIL	2
9089	35.0	NIL	--
9090	75.0	--	--
9091	42.0	NIL	8
9092	24.0	NIL	6
9093	23.0	0.18	--
9094	--	--	--

X-RAY ASSAY LABORATORIES 21-JUN-83 REPORT 17972 REF. FILE 13687-US PAGE 5

SAMPLE	ZN %	AG PPM	AG OZ/TON	PB PPM	PB %
9095	--	--	--	--	--
9096	--	1.0	--	8	--
9097	--	0.5	--	4	--
9098	--	1.0	--	10	--
9099	--	<0.5	--	2	--
9100	--	0.5	--	6	--
		<0.5	--	<2	--

ROCK GEOCHEMICAL

RAY ASSAY LABORATORIES 19-JUL-83 REPORT 18225 REF. FILE 13920-16 PAGE 1 OF 2

SAMPLE	AU OZ/TON	NA2O %	NI PPM	CU PPM
9084	0.002	--	--	--
9085	NIL	--	--	170.
9086	0.014	--	--	160.
9087	NIL	--	--	--
9088	NIL	4.92	--	8.0
9089	TRACE	--	--	52.0
9090	--	--	100	140.
9091	TRACE	3.83	--	12.0
9092	TRACE	0.77	--	80.0
9093	0.260	--	--	870.
9094	TRACE	--	--	--

RAY ASSAY LABORATORIES 21-JUN-83 REPORT 17972 REF. FILE 13687-U5 PAGE 2

SAMPLE	AU PPB	AU OZ/TON	CU PPM	CU %	ZN PPM
9095	8	--	130.	--	48.0
9096	5	--	170.	--	21.0
9097	4	--	150.	--	52.0
9098	4	--	74.0	--	22.0
9099	4	--	55.0	--	49.0
9100	3	--	91.0	--	13.0

APPENDIX D

Diamond Drill Logs

Holes No.

SA-83-1 - SA-83-10

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-1 LENGTH 416.0'
 LOCATION _____
 LATITUDE 292.0' N DEPARTURE 6.0' W
 ELEVATION Surface AZIMUTH 110° DIP -50°
 STARTED Jan. 23, 1983 FINISHED Jan. 27, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100'	57°				
200'	56°				
300'	54 ¹ / ₂ °				
400'	53°				

HOLE NO. SA-83-1 SHEET NO. 1

REMARKS _____

LOGGED BY J. Hinzer

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	Oz/Ton		Oz/Ton
					FROM	TO					TOTAL
0.0'	14.0'	CASING (overburden to 12.0')								
12.0'	161.2'	Granite - medium grained. Granite is medium gray, with some buff coloured sections. Most of the rock is altered at least partially reflected by a greenish-yellow tint due to alteration mineralogies. Buff feldspar phenocryst (2-4 mm) are the dominant feature. Rock is fairly massive and homogeneous. The granite texture is destroyed in some areas where strong shearing and silification reduce the rock to fine grained dark green material often containing many qtz lattice veins and or quartz blebs (small). Mineralization consists of up to 2% fine grained disseminated pyrite and up to 2% pyrite crystals up to 1 cm. occurring along quartz veins. 12.0'-32.0' - granite is weathered due to penetrating fluids from the overlying tailings pond. Fractures open to surface penetrate 30' or more and are strongly zoned for up to six inches on either side. Granite is dark brown where weathered often marked by a red-brown halo (rim). 33.0'-39.0' dark green mottle or spotting up to 10% of granitic core due to alteration minerals crude mineral alignment (shearing) is present.	601		13.5'	15.6'	2.1'			N11
			602	Trpy	29.7'	32.2'	2.5'			N11
			603		48.2'	50.1'	1.9'			N11
			604	Trpy	61.5'	63.9'	2.4'			0.003
			605		85.5'	87.7'	2.2'			0.001
			606		88.7'	90.5'	1.8'			N11
			607		95.0'	97.7'	2.7'			0.002
			616	Trpy	112.7'	115.0'	2.3'			N11
			608		131.9'	134.7'	2.8'			0.005
			609		138.3'	141.3'	3.0'			N11
			610		141.3'	141.1	1.8'			N11
			611		153.0'	155.6'	2.6'			N11
			612		155.6'	158.8'	3.2'			0.002
			613		158.8'	161.1	2.3'			0.011

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-1 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-1 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			Au ASSAYS		
FROM	TO		NO.	FOOTAGE		%	Oz/Ton	Oz/Ton
			% SULPHIDES	FROM	TO	TOTAL		
12.0'	161.2'	continued						
		39.0'-130.0' massive granite with minor quartz veining $\frac{1}{2}$ - 2" qt. veins make up approximately 5% of the core. Minor shear zones and altered sections from 6" - 3', in length well dispersed throughout.						
		130-161.2 Strongly altered granite green to yellowish with finer grained texture. Very strong shear zone						
		133.8-134.3 - dark green fine grained, very soft.						
		130 - 150' - approximately 25-30% of core is quartz both massive and laced.						
		150 - 161.2' -approximately 35-40% of core is quartz.						
161.2'	193.1'	Quartz Porphyry (Sheared)	514	161.1'	163.4'	2.3'	0.001	
		medium to dark grey very strongly sheared, almost parallel to core axis (appears almost to be flow banded). Quartz phenocryst-dark gray occur as 1-2 mm. grains in the matrix and 5-10 mm large phenocryst (up to 30%) angular to sub-angular - often broken (brecciated) - matrix flows around these coarse grains.	515	175.0'	177.0'	2.0'	Tr	
		Other constituents are 1-3 mm yellowish sericite flakes and approximately 1/2% 1-2 mm py. cubes.	517	190.0'	193.0'	3.0'	Nil	

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-1 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-1 SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% Sph IDES	FOOTAGE			%	Oz/Ton	Oz/Ton
					FROM	TO	TOTAL			
161.2'	193.1'	continued. The lower 10-15 feet of core is more strongly sheared, rock is pale gray - almost lalcolse, large quartz phenocrysts are less frequent and small ones are almost obliterated. Quartz veining within the unit is restricted to one 3" vein. Upper and lower contacts are irregular but fairly sharp. Contact zones were not discernable.								
193.1'	370.0'	Granite Medium Grained similar to 12.0' - 161.2' above. 193.1-235.2 strongly altered & sheared granite green to yellowish green finer textured. Entire section averages 10-15% quartz both massive and laced. Shear brecciation of the granite occurs up to 204' * 222' alteration is greatly reduced. * 219' sphalerite bleb in bull quartz 235.2' - 270.9' medium grained granite with occasional shear zones and minor altered sections * 260' small veinlet of sph 259' - 270.9' shear zone 1 - 5% py avg. 2%	618		193.0'	196.0'	3.0'		Tr	
			619		220.3'	223.3'	3.0'		Nil	
			620		228.9'	232.9'	4.0'		0.002	
			621		247.5'	248.8'	1.3'		Nil	
			622		262.3'	267.0'	4.7'		0.001	
			623		267.0'	270.6'	3.6'		0.004	
			624		270.6'	274.6'	4.0'		Nil	
			625		274.6'	278.9'	4.5'		0.008	
			626		287.0'	290.2'	3.2'		Nil	
			627		302.6'	304.3'	1.7'		0.001	
			628		310.8'	313.6'	2.8'		Nil	
			629	Trpy	317.7'	319.2'	1.5'		Nil	

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-1 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-1 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	Oz/Ton	Oz/Ton	Oz/Ton	
					FROM	TO	TOTAL					
193.1'	370.0'	continued										
	270.9 - 277.0'	shear zone-quartz laced 60-70% quartz dark green fine textured 1-2% disseminated by tr. sph? galema? minor carbonate.	630	Trpy	319.2'	320.3'	1.1'		Tr			
			631		320.3'	322.4'	2.1'		Nil			
			632		331.3'	333.0'	1.7'		Nil			
	277.0' - 289.6'	altered granite. 10-15% qtz. laced	633		337.0'	338.6'	1.6'		Nil			
			634		342.7'	344.4'	1.7'		Nil			
	289.6' - 370.0'	medium to coarse grained granite upper and lower sections are altered and sheared along 7-5' sections, randomly, most notably between 319' - 321.6' and 348 - 353.0' below 312' pale gray - white green unshered except small local shearing at 1-12" quartz veins - 1% diss. biotite.	635		349.0'	350.2'	1.2'		Nil			
			636		350.2'	352.8'	2.6'		NSS			
			637		352.8'	357.0'	4.2'		Nil			
			638		357.0'	360.8'	3.8'		Nil			
			639		369.1'	371.2'	2.1'		Nil			
			640	Trpy	373.2'	375.6'	2.4'		0.001			
			641	Trpy	375.6'	378.0'	2.4'		Nil			
	370.0' - 416.0'	Granite Coarse Grained	642	Trpy	378.0'	380.4'	2.4'		Tr			
		Similar to the above but coarse grained - lightly spotted with darker alteration patches, chlorite and biotite. Occasional section with strong shearing and/or alteration accompanied by 10-30% quartz are also present. Up to 1% disseminated pyrite (1-2 mm. grains) is also present.	643	Trpy	380.4'	383.6'	3.2'		0.001			
			644		383.6'	385.0'	1.4'		Nil			
			645		385.0'	387.2'	2.2'		0.001			
			646	Trpy	387.2'	388.9'	1.7'		0.430			
			647		388.9'	392.0'	3.1'		Tr			
			648	Trpy	392.0'	393.9'	1.9'		Nil			
			649		393.9'	397.0'	3.1'		0.003			
	385' - 390.0'	Strongly altered sheared and silicified section, massive quart vein from 388.1 - 389.0' contains several 1-2 mm sulfide seams up to 2-3% of qtz. zone is mineralized.	650	Trpy	397.0'	399.8'	2.8'		0.005			
			651		399.8'	401.5'	1.7'		Nil			

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-1 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-1 SHEET NO. 5

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	Oz/Ton	Oz/Ton	Oz/Ton	
					FROM	TO	TOTAL					
370.0'	416.0'	continued										
		Occasional minor altered zone above and below this section persist to the end of the hole.	652	Trpy	404.2'	407.0'	2.8'	0.002				
			653		412.5'	416.0'	3.5'	Nil				
		370' - 402' white-gray, coarse grained granite, 10% qtz. veins from 1" -18", 1-3% py, locally brecciated, tr. sphalerite at 389'.	654		composite sample			0.002				
		402' - 412' coarse grained, 1% qtz. stringers, trace pyrite										
		412' - 416' same as above with 15% qtz. stringers, 2-3% pyrite										

JH

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold
 HOLE NO. SA-83-2 LENGTH 407.0'
 LOCATION _____
 LATITUDE 0+93N DEPARTURE 0+27E
 ELEVATION Surface AZIMUTH 110° DIP -50°
 STARTED Jan. 28, 1983 FINISHED Jan. 30, 1983

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
100	56°				
200	55°				
300	55°				
400	54°				

HOLE NO. SA-83-2 SHEET NO. 1

REMARKS _____

LOGGED BY J. Hinzer

FOOTAGE		DESCRIPTION	SAMPLE			AU ASSAYS				
FROM	TO		NO.	SULPH IOES	FOOTAGE		%	Oz/Ton	Oz/Ton	
					FROM	TO				TOTAL
0	16.0'	Casing (Bedrock at 15.5')								
15.5'	88.0'	<p>GRANITE (Medium Grained)</p> <p>Gray with light yellow-green cast - especially in more altered sections. Dominant feldspars gray-pale white grains. Sections appear spotty where dark grained alteration patches, sericite, mica conglomerate. Spots may be up to 10% of core. Up to 1% py is common with 1-2 mm grains.</p> <p>Surface weathering (leaching) along fractures is common in first twenty feet of core but persists on some fractures to 25 feet or more.</p> <p>Altered zones (yellow-green cast) with associated quartz lacing, strong shearing (brecciated granite) and minor sulfides up to 2%.</p> <p>36.5-46.8' altered, sheared, less than 2% py 62.0'-67.0' altered, sheared, less than 1% py 79.0'-88.0' medium-strong alteration, shearing ^(90° to 6/a) 1-2% py/a some massive quartz veins</p>	655		16.5'	19.1'	2.6'		Tr	
			656		21.7'	23.8'	2.1'		Nil	
			657	2% py	40.2'	45.0'	4.8'		Nil	
			658	1% py	62.8'	67.2'	4.4'		Tr	
			659	1% py	80.2'	85.1'	4.9'		0.001	
			660	1% py	85.1'	88.9'	2.8'		Tr	
			9025		88.9'	95.2'	6.2'		Nil	
			9026		95.2'	101.5'	6.3'		Nil	
			9027		102.5'	108.5'	5.8'		Nil	
88.0'	254.7'	<p>GRANITE (Coarse Grained)</p> <p>Granite light gray some paler sections, extensive areas of spotted granite - due to mica (biotite) sericite knots. Yellow green alteration patches, shearing, etc. as above</p>	661	1%py	101.5'	102.7'	1.2'		0.011	
			662	1%py	108.5'	110.0'	1.5'		Tr	
			663	1%py	116.7'	118.8'	2.1'		0.001	

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-2 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-2 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	Oz/Ton	Oz/Ton	Oz/Ton
					FROM	TO	TOTAL				
88.0'	254.7'	Granite (coarse grained) continued ... Sulfide average less than 1% with some large lumpy (spongy) cubes on bull quartz veins. (i.e. 109.0'x 4" qv) Altered granite with shearing (texture) is significant at the following footages (most sections are qt. laced) 142'-146' massive qtz.veins 134-142 2-3% sulf.70-90% core axis 155'-161' " " " little or no " 192.5'-193.4' 196.2'-198.5' 206.8'-208.2' some py (tr sph 209.7') 220.3'-227.0' massive qtz. veing 1-29° py 235 - 244' " qtz. veing 1% py 246' - 254.7' very strong altered and shearing QUARTZ PORPHYRY (SHEARED) Dark gray, fine grained matrix, very highly sheared at 5-10° to core axis. Matrix quartz phenos are dark - 1-2 mm with 10-30% large angular qtz. phenos up to 1 cm. (often broken). contact with granite is sharp at top. Lower contact has 6" quartz vein. Occasional minor disseminated pyrite	664	1%py	127.0'	128.4'	1.4'	0.001			
			665	1%py	133.0'	136.4'	2.5'	0.004			
			666	1%py	136.4'	139.7'	3.3'	0.002			
			667		143.5'	145.7'	2.2'	0.006			
			668		155.7'	159.0'	3.3'	Nil			
			669		162.7'	167.0'	4.3'	Tr			
			670	1%py	176.1'	179.3'	3.2'	0.010			
			671	1%py	190.9'	193.3'	2.4'	Tr			
			672	1%py	207.9'	210.2'	2.3'	Nil			
			673	1%py	215.3'	217.7'	2.4'	Tr			
			674	1% py	219.5'	223.0'	3.5'	0.004			
			675	Trpy	224.7'	227.0'	2.3'	Nil			
			676	Trpy	234.6'	235.9'	1.3'	0.002			
			677	1%py	235.9'	238.0'	2.1'	0.003			
			678		238.0'	240.2'	2.2'	Nil			
			679	1% py	240.2'	243.5'	3.3'	0.006			
			680		243.5'	247.8'	4.3'	Nil			
			681		247.8'	252.0'	4.2'	Tr			
		682		252.0'	254.9'	2.9'	Nil				
		683		254.9'	257.8'	2.9'	Tr				
		684		270.1'	272.1'	2.0'	Tr				
		685		289.9'	291.9'	2.0'	Tr				
254.7'	292.2'										

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-2 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-2 SHEET NO. 3
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				AU ASSAYS		
FROM	TO		NO.	SULPHIDES	FOOTAGE FROM TO	TOTAL	%	Uz/Ton	REASSAY OZ/TON
292.2'	373.0'	GRANITE (Coarse Grained) Similar to 88.0'-254.7'. Major sections of alteration, shearing, quartz lacing as follows: 292.2-303' strong altered shearing 310' -311.8' medium altered shearing 333.5'-334.1' 343' - 346.5' 353'.6' - 354.2' 354.8' - 356.7' 360' - 373' moderate altered 40-50% qtz. 14% py Intermitten qtz. veining with large 1 cm py cubes w 329.0', 350.1'	686		291.9'	298.8'	1.9'	0.013	
			687		293.8'	296.8'	2.0'	Tr	
			688		296.8'	300.5'	3.7'	Tr	
			689		309.9'	313.9'	4.0'	Tr	
			690		313.9'	317.0'	3.1'	0.002	
			691	1% py	327.8'	331.3'	3.5'	Tr	
			692		334.8'	337.0'	2.2'	0.001	
			693		343.8'	346.6'	2.8'	0.008	
			694		349.2'	351.0'	1.8'	0.001	
			695		353.6'	357.1'	3.5'	0.002	
			696	3% py	357.1'	362.4'	5.3'	0.013	
			697	V	0	1 B			
			698		362.4'	367.0'	4.6'	N11	
			699		367.0'	371.3'	4.3'	N11	
373.0'	407.0'	GRANITE (Medium Grained) Similar to 15.5' - 88.0' slight alteration still present, much finer grained than above. Section is much lighter coloured, less altered, with depth alteration spots are rare. Py occurs as large cubes both in qv, granite and also disseminated very noticeable 1-2%. Traces of sphalerite, carbonate crystals not uncommon. Significant alteration, shearing and quartz lacing is present at 383.2' - 386.0' medium alteration 2% py. 398.0' - 402.0' weak alteration E. O. H.	700		371.3'	373.4'	2.1'	0.001	
			701		373.4'	376.1'	2.7'	N11	
			702		376.1'	379.2'	3.1'	N11	
			703		383.2'	386.5'	3.3'	0.035	0.017 TRACE
			704		386.5'	390.5'	4.0'	N11	
			705	1% py	390.5'	395.6'	5.1'	Tr	
			706	3% py	395.6'	398.0'	2.4'	0.002	
			707	1% py	398.0'	400.4'	2.4'	Tr	
			708		400.4'	404.4'	4.0'	0.002	
			709		404.4'	407.0'	2.6'	Tr	
			710	C U	M P O S I T E			0.002	
			711		379.2'	383.2'	4.0'	Tr	NIL

LANGRIGES - TORONTO - 396-1166

E. O. H.

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-3 LENGTH 1108.0'
 LOCATION _____
 LATITUDE 3 & 30'S DEPARTURE 3 + 57 W
 ELEVATION Surface AZIMUTH 102° DIP -65°
 STARTED Feb. 3, 1983 FINISHED Feb. 9, 1983

FOOTAGE	DIP	OUTLET AZIMUTH	INLET FOOTAGE	OUTLET DIP	INLET AZIMUTH
18'	-68°	500'	642°	900'	63°
100'	-66½°	600'	64°	1000'	62°
200'	-66°	700'	65°	1100'	62°
300'	-66½°	800'	64°		
400'	-65°				

HOLE NO. SA-83-3 SHEET NO. 1

REMARKS _____

LOGGED BY J. Hinzler

FOOTAGE		DESCRIPTION	SAMPLE			AU ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL	%	Oz/TON	OZ/TON
0	18.0'	CASING (Bedrock at 15.5')						
15.5'	69.0'	GRAY GRANITE						
	15.5'-33.0'	Tan-buff siliceous rock with no discernable grain size or texture (felsite). With depth texture becomes sugary and 2-3 mm. grains become visible as mafic component of rock gradually increases. Dark 1 mm. fractures healed with qtz., carb., and up to 1% py abound from 19-28' at 45° to c.a. Occasional ½" qtz. vein at 80° to c. a.	712	1.2% py	25.8'	28.0'	2.2'	0.008
	33.0'-56.0'	Transition (gradual) from Tan to brown-gray with minor biotite -as mafic content of rock increases resembling granite, locally carbonitized qtz. veins at -36-37' (20% carb) at 10° to c.a. shear-breccia-39.2-42.0' contains 1-2% diss. py. 46-48.5 contains - 6" quartz vein, 2-3% py, chlorite	713 714	" 1% py	39.8' 55.0'	42.5' 58.0'	2.7' 3.0'	0.003 0.001
	56.0'-69.0'	medium grained dark granitic texture (blue-gray) with little or no sulfides. Locally sheared finer grained sections. sheer breccia-60-61' Transitional lower contact.						
69.0'	171.8'	Altered Felsic-Mafic Greenstone with minor Granite	715	1%py	79.0'	81.0'	2.0'	Nil
		Identification of component rock types is difficult approximately 60% are mafic volcanics 30% are felsic volcanics and clastics and 10% are granitic.	716	Trpy	106.0'	108.0'	2.0'	Nil
			717	1% py	115.8'	118.0'	2.2'	Nil
			718	1-2% py	131.9'	134.9'	3.0'	Nil

LANGRISHES - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-3 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS		
FROM	TO		NO.	% S&P SIDES	FOOTAGE		%	oz/Ton	oz/Ton
					FROM	TO				TOTAL
69.0'	171.8'	continued...							
		69.0' - 79.0' - Fine grained .5 mm. equigranular homogeneous sandy gray coloured rock. Upper few feet are transitional. Unit is possibly bedded as minor contacts at 30° to core axis are seen (carbonatized)	719		134.9'	136.6'	1.7'	Nil	
			720	Trpy	138.0'	139.3'	1.3'	Nil	
		79.0' - 81.5' - coarse grained-dark-blue gray granite with joint 4-6" fine grained margins	721		140.7'	142.7'	2.0'	Nil	
		81.5' - 86.5' same as 69.0' - 79.0'	722	2%py	145.0'	148.0'	3.0'	Tr	
		86.5' - 88.7' same as 79.0' - 81.5' granitic	723	2%py	148.0'	151.2'	2.2'	0.004	
		88.7' - 90.5' same as 69.0' - 79.0'	724	1-2% py	151.2'	153.6'	2.4'	0.003	
		90.5' - 93.5' same as 79.0' - 81.5' granitic							
		93.5' - 109.5' aphanitic-fine grained brown-gray with 1-2% py at 107.5' at internal contact	725	1%py	164.0'	166.0'	2.0'	0.002	
		109.5' - 113.0', same as 79.0' - 81.5' granitic							
		113.0' - 136.5', fine grained brown to greenish gray - resembling greywacke-carbonate rich and very highly sheared locally							
		113-115-greenish-fault gauge material- chloritic mud							
		118-120 - shear-breccia							
		127-130.3 - resembles sectio. 15.5 - 33.0'							
		136.5' - 138.5' Mafic Dike-fine grained black-strongly foliated at 20° to c-axis. Sinuous upper contact over 1.5' - sharp lower contact at 80° to c.o. with 2" chilled margin.							

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-3 SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ANALYSES		
FROM	TO		NO.	SILICIFIED	FOOTAGE		%	Oz/Ton	OZ/TON
					FROM	TO				TOTAL
69.0'	171.8'	continued ...							
		138.5'-144.8' Andesite Tuff-dark green highly sheared chloritized and carbonitized - extremely fine grained 2-3% disseminated py for 6" near dike contact							
		144.8'-166.7' predominantly felsic-tuff or intrusive							
		144.8'-151.0' similar to 113.0-136.5 - brown grey rich in carb. and strongly sericitic							
		151.0'-166.7' highly sheared-buff-greenish-gray fine grained 2-5% diss.py - local shear-bx (xtal tuff)							
		166.7'-171.8' - Mafic dike same as 136.5'-138.5' 1" bleached chilled margins - upper contact at 80° to core axis - lower contact at 70° to core axis							
		The entire unit is strongly sheared and carbonitized except for the lower felsic unit 144.5 - 166.7 - which may be an x-tal tuff or possibly a very highly sheared quartz porphyry.							
171.8'	283.5'	DARK GRANITE Biotite Rich Medium to coarse grained dark blue-gray colour, containing many strongly sheared - sheer-bx sections, alteration zones. Silicification (removal of mafics) minor carbonization and pyrite paint on shear slips.							

LANGRANGES - TORONTO - 346-1158

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-3 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				AU ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	12/Ton	OZ/TON
					FROM	TO				TOTAL
171.8'	283.5'	continued... Alteration is characterized by 1) finer texture and shear-bx 2) loss of mafics to green-brown-gray colour 3) almost aphanitic texture 4) increased loss of mafics-pale gray with appearance of pink patches (K-spar) strong silicification, carbonatization and sulfide enrichment. 192.-194' - 4th stage altr. (24" py seams 3-5% py) 209.8'-213.5' - 2nd stage 5% qtz. laced-py paint 216.-218' - 1st stage 3-5% qtz. laced 1% py 218'-273' - Numerous 4-12" zones of 2nd stage altered with central quartz veins and 1-2% py (qt. vein at 30° loc-a) 273'-283.5' - entire section stage 2 alteration 282-283.5' 10-15% qtz. laced and 1% py	726	2% py	186.0'	189.0'	3.0'	Nil	
			727	2-3% py	193.1'	195.4'	2.3'	Nil	
			728		195.4'	198.0'	2.6'	Nil	
			729		199.4'	204.8'	5.4'	Tr	
			730		210.6'	214.0'	3.4'	Nil	
			731		239.1'	240.9'	1.8'	Nil	
			732		276.5'	280.8'	4.3'	Tr	
			733		280.8'	283.9'	3.1'	0.003	
283.5'	295.3'	QUARTZ PORPHYRY (Sheared) Mid gray highly sheared matrix with minor carbonate. Quartz phenocrysts are dark gray 3.4 mm.-1 cm. often broken sub-rounded to angular making up 20% of core. Occasional white quartz phenocrysts and many dark shards 3-8 mm. long 1-2 mm. thick are composed of dark (black) quartz with trace up to 1/2% py.	734		283.9'	285.5'	1.6'	Nil	
			735		294.3'	295.6'	1.3'	Nil	

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-3 SHEET NO. 5

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			G	Oz/Ton	Oz/Ton	Oz/Ton
					FROM	TO	TOTAL				
283.5'	295.3'	continued... Many 1-2mm. quartz phenocryst are also found in the matrix. Occasional 1/4"-1" Qtz. carb veins cross at 5-30° to c-axis - upper contact sharp - lower, sharp at 70% c. a.									
295.3'	297.0'	Altered Sheared Granite	736		295.6'	297.5'	1.9'		Nil		
297.0'	301.8'	ANDESITE DIKE Fine grained, dark green, chloritized, faint granular pepper texture, occasional Qtz. -carb" altered section, similar to (138.5-144.8'). 1" quartz vein and 1% py at upper contact.	737		297.5'	299.3'	1.8'		Nil		
301.8'	347.5'	GRANITE ? (Altered Felsic Rock) Upper part of this unit contains many granitic looking dark blue gray sections with altered lighter gray sections similar to 171.8'-283.5'. If granitic, this section is much more strongly altered than granite above. 301.8-303.2-granitic 303.2-304.3 - resembles a felsic tuff-sheared. 304.3-333.0'-granite with altered zones 6"-1' usually 333.0'-347.5'-Schistose light gray strongly sheared mafic minerals are foliated. 343.4-347.5' - silicified Qtz. veining, 2-3% py, carb" tiny 1 mm. healed seams (chlorite) below 346.4-foliation almost gneissic at 10° to c.o. 5-10% py to po cpy.	738	F py	316.8'	319.2'	2.4'		Tr		
			739	F py	341.5'	344.0'	2.5'		0.001		
			740	1-2% pypo	344.0'	346.4'	2.4'		0.003		
			741	5-7% PY	346.4'	347.8'	1.4'		0.009		

LANSING - DIAMOND - SERVICING

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-3 SHEET NO. 6

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS		
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	Oz/Ton	Oz/Ton
					FROM	TO				TOTAL
347.5'	357.0'	ANDESITE DIKE Very fine grained highly sheared near contacts, 1% diss. py. Numerous tiny carb. and occasional qtz. veins at random angles. General pepper texture similar to 297.0 - 301.8'. Contacts at (45° to c. axis upper) (60° lower), 1-3% py on lower contact.	742	1%py	347.8'	350.2'	2.4'	0.008	
			743		356.1'	357.6'	1.5'	Nil	
357.0'	715.0'	DIORITE ZONE The entire section is composed of approximately 60% diorite and 40% which consists of altered diorite? and or biotite granite, felsic dikes and shrd? granite. 357.0'-461.0' Medium grained spottly texture 2-4 mm grain size white felspar-dark mafic minerals. Trace pyrite - many altered sections centred on quartz veins or shr-breccia. Altered zones usually 6"-2' contain sil.-carb-2-3% py (dark quartz silicification) give core a dark blue gray appearance-resembling granite. -no clear contacts between sub units are discernable therefore, it may be possible that some altered granitic sections are diorite.	744		369.1'	373.0'	3.9'	Nil	
			745		373.0'	374.7'	1.7'	Nil	
			746		374.4'	376.7'	2.0'	Nil	
			747		389.9'	392.5'	2.6'	0.001	
			748		403.6'	405.5'	1.9'	0.001	
			749		433.2'	437.6'	4.4'	0.001	
			750		454.8'	457.1'	2.3'	Nil	
			751		459.8'	460.6'	1.8'	Nil	

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-3 SHEET NO. 7

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS				
FROM	TO		NO.	% Sph IDES	FOOTAGE		X	Au		oz/TON	
					FROM	TO		TOTAL	oz/TON		REASSAY
357.0'	715.0'	continued... 357.0'-461.0' continued Tiny 1/8 - 1/4" carb and qtz. veins form a hairline network at random angles. 429.4-437.5' dark blue gray-granitic looking section qtz. carb. veins-1.2% py centred on shr-bx zone at 434.7 449.4'-455.3' as above-major carb vein 1' @ 453 distinct foliation at 20° to c.a. near base. 455.3'-461.0' Transition zone-extremely sheared. 50 to core axis- 1% diss. py carbonate abundant - pale gray colour 461.0'-540.0' Zone of major shearing-silicification and alteration. Original rock types almost completely obscured. Only Tr pyrite. 461.0-468.0'-shearing most intense-rock is a schist. May be a sheared qtz. pophryry? 468.0'-480.0-schistose 30-40% .1-1 mm. qtz. eyes along foliation (probably sheared qtz. vein stretched 30-40 times). gneissic texture last two feet. 478.0'-480'-resembles 455.3-461. 488.0'-493.0' - similar to 449.4'-455.3' strongly silicified-dark gray intrusive texture-5-10% qtz. lacing 493.0'-501.8'-very siliceous fine grained schistose 501.8'-509.5'-cross between altered diorite and biotite granite 509.5-517.0' Diorite 517.0'-540.0' altered diorite or altered granite									
			752	Trpy	467.8'	470.3'	2.5'	0.004	0.002		
			753	"	474.8'	477.0'	2.2'	Nil			
			754	"	488.7'	494.0'	5.3'	Nil			
			755	"	494.0'	497.6'	3.6'	Tr			
			756	"	504.4'	508.0'	3.6'	Nil			
			757	"	512.7'	514.9'	2.2'	Nil			
			758	"	525.5'	528.0'	2.5'	0.001			
			759	"	537.5'	540.1'	2.6'	Nil			
			760	"	584.0'	588.5'	4.5'	Nil			
			761	"	595.1'	599.5'	4.4'	0.001			

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. _____ LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-3 SHEET NO. 8

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			AU ASSAYS		
FROM	TO		NO.	SYMBOLS	FOOTAGE FROM TO TOTAL	%	Oz/Ton	Oz/Ton
357.0'	715.0'	continued						
	540.0'-583.0'	- Diorite						
	583.0'-607.5'	- Combination of sheared diorite blue-gray granite and gray granite centred on a felsic shear zone strong chlorite up to 5% carb.						
	607.5'-615.0'	- Diorite	762	1%py	616.4'	619.9'	3.5'	Nil
	615.0- 532.0'	- Siliceous - sheared fine grained gray rock with local faint granitic texture at centre of unit. 5-10% $\frac{1}{4}$ " curb veins tr py.	763	py	637.8'	641.9'	4.1'	Nil
	632.0'-651.0'	- Diorite, many minor altered sections.	764	"	644.5'	646.5'	2.0'	Nil
	651.0'-668.0'	- Similar to 615-632, alternating gray fine grained curb rich sections and darker granitic looking sections.	765	"	662.0'	664.1'	2.1'	Nil
	660.7-668.0	- shear-breccia.	766	"	668.0'	669.6'	1.6'	Nil
	668.0'-688.7'	Strongly silicified- cherty looking quartz laced section. 2-3% pyrite locally	767	2%	669.6'	671.8'	2.2'	Nil
	671-675	-predominantly shx-br'd dark granitic texture appearing below 675.0'	768	pypo	671.8'	675.2'	3.4'	Nil
	678.6'-679.4'	Bull qtz. vein at 30° to c-a. 3% py some carb	769	py	675.2'	678.0'	2.8'	Nil
	681.6-688.7	- many dark qtz. veins with 2-3% py,po-and granitic texture		po				Nil
	688.7'-697.6	- Diorite	770	py	678.0'	680.0'	2.0'	Nil
	697.6'-702.8'	- Sheared dark gray granitic texture, locally carbonated	771	po				0.002
	702.8'-715.0'	- Predominantly Diorite	772	py po	680.0'	683.7'	3.7'	0.003
			773	po	683.7'	685.9'	2.0'	Nil
				py	697.6'	702.8'	5.2'	

LANGRIGES - TORCHIO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-3 SHEET NO. 9

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	g/TON	OZ/TON
					FROM	TO	TOTAL			
715.0'	745.4'	GRANITE? (ALTERED felsic Rock) Very similar to 301.8'-347.5'. Darker granite material dominates twenty feet interrupted by many silicified-shr-bx'd. sections of 6"-1' elevation. The lower 10 feet appear andesitic in part, carb. up to 5%. lower contact steep at 40° to c.a. with an 18" buff coloured but chloritic section.	774	py	716.5'	719.0'	2.5'		Tr	
			775		742.2'	744.5'	2.3'		Tr	
			776	py	744.5'	746.9'	2.4'		Nil	
745.4'	1108.0'	BICHITE GRANITE Medium to coarse grained dark bluish-gray with approximately 1% diss. pyrite, numerous local alteration patches and shear-bx'd. sections. Upper 100' of unit is tan coloured zone. Several major quartz-vein and shear zones occur in the lower 200 feet. Local sulfide content within these major qtz.-shear zones may reach 5-10% including py, po, tr cpy, sph and galena. Chlorite development is abundant with little or no carb but extensive silicification. 745.4'-839.7'- Transitional contact zone whitish to buff-hard siliceous lightly foliated and cherty in appearance (possible felsite). By 775.0' slight darkening with pale-yellow-green (alteration) colour mafic content gradually increasing between 830-839.7 unit grades into granitic dark rock. Many strong shr-bx sections and chlorite stringers and 2-3% py and po are common. (Tr sph @ 757).	777	1% py	752.4'	754.9'	2.5'		Nil	
			778	1% py	758.8'	762.0'	3.2'		Nil	
			779	1-2% py po	762.0'	765.7'	3.7'		Nil	
			780	"	765.7'	768.0'	2.3'		Nil	
			781	2% py po	768.0'	771.2'	3.2'		Nil	
			782	1-2% py po	771.2'	773.6'	2.4'		0.080	
			783	1% py po	773.6'	777.0'	3.4'		Nil	
			785	"	788.6'	794.0'	5.4'		0.002	
			786	"	794.0'	798.0'	4.0'		Nil	
			787	"	798.0'	801.1'	3.1'		Nil	
			788	3% py	806.0	811.5'	5.5'		Nil	
			789	2-3% py po	811.5'	815.3'	3.8'		Nil	
			790	"	815.3'	819.8'	4.5'		Nil	
			791	5% po	819.8'	823.6'	3.8'		Nil	
			792	3%	823.6'	826.7'	3.1'		Nil	
			793	1% po py	826.7'	830.3'	3.6'		Nil	

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-3 SHEET NO. 10

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			AU ASSAYS				
FROM	TO		NO.	SULFIDES	FOOTAGE		%	AU		
					FROM	TO		TOTAL	1/2" TO 1"	REASSAY	OZ/TON
745.4'	1108.0'	continued...								
		765-768.4 - shr-bx 3-5% py & po	791	5%po	819.8'	823.6'	3.8'		Nil	
		771.3-773.6- " " 3-5% py & po	792	3%	823.6'	826.7'	3.1'		Nil	
		776.7-778.8 shr-bx		poppy						
		800-830'-qtz. lacing 5-10%, 5% py.po diss. & in qv.	793	1%	826.7'	830.3'	3.6'		Nil	
		805- shr-bx		poppy						
		814.5' gray q.v. 1-2" 20% po to carb.	794	1%py	846.8'	851.6'	4.8'		0.017	
		818.2 several 1-2 mm py-po seams		po						
		820.0' 2" q.v. 50% po		Trpy						
		821.0'-824.0 - 5-10% po & py	795	po	851.6'	855.1'	4.5'		0.004	
		825-826 - qtz. vein breccia 5% po		Trpy						
		839.7'-1108.0' - Dark bluish-gray coarse grained granite, 1-2% diss. sulfides. Many altered sections. Alteration consist of 1) shear-bx zones, 2) bleaching (removal of mafics)-addition of yellow-green tint. 3) bluish or white q.v. at centre 4) po-py diss. and on veins-some chlorite. (average 6"-1' con sections)	796	Trpy	860.5'	862.2'	1.7'		Nil	
		860-863-Shr-bx 10% qtz.lase Trpo	797	"	870.0'	873.5'	3.5'		Nil	
		894.3-897.6-Shr-bx 10% qts.lase 1-2% po	798	Trpy	879.3'	882.4'	3.1'		Nil	
		903-905.2 -Shr. 1-2 mm. py-po seams at 10° lacing.	799	"	886.4'	889.5'	3.1'		Nil	
		907.6-910.7-2-3% po,py tr cpy	800	2%py	893.1'	895.9'	2.8'		0.001	
		911.4-912.9- shr-bx qtz-laced 5-10% - 2" Bull q.v. at 30% c-o. - chlorite seam 1/8 x 1 1/2" Trpy	801	"	895.9'	892.0'	5.1'		Tr	
			802	"	907.5'	910.6'	3.1'		0.001	
			803	"	915.6'	919.0'	3.4'		0.021	0.012
			804	2-3% py po	924.1'	927.5'	3.4'		0.003	0.003
			805	2-3% py po	927.5'	931.0'	3.5'		0.001	0.001
			806	1-2% py po	933.0'	935.0'	4.0'		Nil	0.001
			9028		830.3'	835.8'	5.5'		Nil	
			9029		835.8'	841.3'	5.5'		TRACE	
			9030		841.3'	846.5'	5.5'		0.017	
			9031		910.6'	915.6'	5.0'		0.001	0.015
			9032		919.0'	924.1'	5.1'		TRACE	TRACE

LANGRISHES - 100000 - 346-1158

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubel)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-3 SHEET NO. 11

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ANALYSES				
FROM	TO		NO.	% SILICIDES	FOOTAGE			%	Oz/Ton	REASSAY	Oz/Ton
					FROM	TO	TOTAL				
745.4'	1108.0'	continued 839.7'-1108.0' cont'd.									
		915-916, 920-921 q.v. py. po	807	Tr pyp	935.0'	939.0'	4.0'	0.007	0.089		
			808	"	939.0'	944.2'	5.2'	0.002	0.008		
		924.5-969.4 224.5'-930.4' 50-60% qtz. veins 3-% local chlorite major qtz. seams dendritic pattern 1% po & py Tr cpy vein zone	809	1-2% pypo	944.2'	948.0'	3.8'	0.015	0.007		
		935.6-938.2' Bull quartz-vein	810	Tr pyp	948.0'	951.8'	3.8'	Nil	Nil		
		939.7-943.3 Bull " "	811	5% py	951.8'	953.8'	2.0'	0.370	0.280		
		943.3-947.2' 50% qtz. Tr py Chlorite	812	1%	953.8'	958.0'	4.2'	Tr	TRACE		
		950.1-953.5' Bull quartz		pypo							
		953.5-955.4 15% py	813	1%	958.0'	962.8'	4.8'	0.001	Nil		
		965-969.4 qtz. laced 60% qtz. 3.5% py.		pypo							
		969.4-978 10% qtz. laced - many small shr-bx zones	814	1%	962.8'	966.0'	3.2'	0.002	0.002		
		985.2-987 -Shr-bx-5% qtz. laced Trace galena		pypo							
		989-990.2 shr-bx - altr. Chl-py on shear slips	815	1%	966.0'	969.3'	3.3'	0.002	0.002		
		992-999.5 shr-bx 3-4% py po tr cpy chl.		pypo							
		1005-1017.8' 1005-1008 " " up to 5% py po diss. 8 on q.v.	816	1-2%	969.3'	974.8'	5.5'	0.003	TRACE		
		Qtz-laced silicified -best mineralized zone.		popy							
		1010.5-1014.5- shr-bx 65% qts. laced and (1.2' qtz. vein at 10° to c.axis with 30% py 3% Chl. Tr po)	817	1-2%	974.8'	979.5'	4.7'	Nil	Nil		
		1017.2-1017.8' - 4-5" q.v. 15-20% po 5% py Tr chl.	818	1-2%	979.5'	984.5'	5.0'	Tr	Nil		
		1021.9-1022.8 - Altered 1 1/2" qv. T-py po chl.		pypo							
		1026-1065.0' -Biotite-chlorite-granite, no shear-bx zones-some sections of 4-5" bull qtz.veins with Tr py po chl(1031-1033,1057-1060)	819	1-2%	984.5'	987.3'	2.8'	0.006	0.003		
				pypo							
			820	Tr pyp	988.2'	1000.3'	2.1'	0.001	0.002		

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-3 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-3 SHEET NO. 12

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			Au ASSAYS		
FROM	TO		NO.	FOOTAGE		%	Au	
				FROM	TO		TOTAL	Oz/Ton
745.4	1108.0	continued						
		839.7'-1108.0' continued	821	1004.7	1008.0	3.3'	0.003	0.014
		1065-1108.0' Biotite-chlorite altered granite with many local shear-bx sections and 4-6" q.v. with up to 2% py & po Tr Chl.	822	1008.0	1012.5	4.5'	0.042	0.020
		1084.7' - 1087' altered 1' shr-bx 5-10% qtz. laced 1% po py	823	1012.5	1014.6	2.1'	0.140	0.064
		1104.3'-1106' oltrd-3-4" shr-bx 6" q.v. white 1% py chl.	824	1014.6	1018.0	3.4'	Nil	0.001
		1108.0' E.O.H.	825	1018.0	1021.3	3.3'	0.003	
			826	1021.3	1025.7	4.4'	Nil	
			827	1025.7	1030.5	4.8'	Nil	
			828	1030.5	1033.3	2.8'	Nil	
			829	1033.3	1038.0	4.7'	Nil	
			830	1038.0	1041.0	3.0'	Nil	
			831	1047.0	1050.7	3.7'	Tr	
			832	1056.8	1060.6	3.8'	Nil	
			833	1070.9	1074.5	3.6'	0.001	
			834	1078.4	1082.2	3.8'	Nil	
			835	1082.2	1087.2	5.0'	Tr	
			836	1087.2	1096.0	8.8'	Nil	
			837	1096.0	1102.9	6.9'	Nil	
			838	1102.9	1106.3	3.4'	Nil	
			839	1106.3	1108.0	1.7'	Nil	
			840	C O M P O S I T E			0.005	

LANGRANGES - TORONTO - 384-1168

JKS

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-4 LENGTH 1248.0'
 LOCATION 5+52 S
 LATITUDE Surface DEPARTURE 3+70 W
 ELEVATION 102° AZIMUTH 102° DIP -65°
 STARTED Feb. 13/83 FINISHED Feb. 20/83

FOOTAGE	DIP	FOOTAGE	DIP	FOOTAGE	DIP
100	65°	500	64°	900	63°
200	66°	600	65°	1000	63°
300	66°	700	65°	1100	62°
400	65½°	800	65°	1200	61°

HOLE NO. SA-83-4 SHEET NO. 1

REMARKS _____

LOGGED BY J. Hinzer

FOOTAGE		DESCRIPTION	SAMPLE			Au ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	Oz/Ton	Oz/Ton
					FROM	TO				TOTAL
0	8.0'	CASING (Bedrock badly broken around 5-6' no core recovery)							
8.0'	19.0'	Altered Granite? (Chloritized felsic volcanic?) Strongly altered, pale gray, silicified, locally chloritized locally brecciated with qtz. lacing 10-20% of core. Irregular fractures 1 mm-are chlorite filled. 2-3% diss. py throughout.	845	1%po py	0.7	11.4	2.7'	Nil	
19.0'	21.0'	.....mafic Dike dark gray-green fine grained silicified unit. Qtz. veining at both ends, with 3-4% diss. py	846	0%po py	20.0'	24.0'	4.0'	Tr	
21.0'	23.0'	same as 8.0'-19.0' altered granite?	847	2-3% py	24.0'	28.0'	4.0'	Nil	
23.0'	25.7'	same as 19.0'-21.0' mafic dike qtz. veins at contacts 6-8", 10° to c. axis at top, 55° to c. axis at base.	848	4%py po	28.0'	31.9'	3.9'	Tr	
25.7'	58.0'	similar 8.0'-19.0' Altered Granite? Medium gray intrusive texture, chlorite segregation along shears at 10-20° to core axis, 2-3% py in top 8' 1% for remainder. 45-47.0' shr.-bx.	849	2-3% py	57.6'	61.5'	3.9'	Tr	
58.0'	82.0'	GRANITE (Border Phase) Buff to ebony, granular medium grain texture, some local faint pink (K-spar) patches. Very low (% leached)-Fe-Mg minerals. Alteration (yellow-green) quartz lacing (silification) and brecciation locally present. Up to 2% sulfides py. 58-6)-contact zone- 3-5% py, sericite, K-spar chl. & carb. veinlets 74-82 - lower contact zone occasional shr.-bx, altr.	850	1-2% py	61.5'	66.3'	4.8'	Nil	
			851	"	66.3'	72.0'	5.7'	0.002	
			852	1%py	80.9'	82.2'	1.3'	Nil	

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-4 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			Au ASSAYS				
FROM	TO		NO.	FOOTAGE		%	Gz/Ton	Oz/Ton		
				FROM	TO				TOTAL	
82.0'	102.0'	GREENSTONE ANDESITE Dark green, chloritic, very strongly shrd. at 0-5% to core axis. Shearing has imparted a gneissic bonding dark chloritic mafic bands and white qtz. rich bands(carb. & fel sp.) Silicified, carbonated. Qtz. veining at 10° to core axis. Trace pyrite Lower contact at 10-15° to core axis.	853	1%py	96.2'	98.0'	1.8'	Nil		
102.0'	112.5'	Altered Granite? (Felsic Tuff?) Similar to 8.0-19.0, 27.5-58.0', 1-2% diss. py.(po)	854	1-2%py	103.3'	106.1'	2.8'	Nil		
113.0'	376.3'	GRANITE (Border Phase) Similar to 58.0-82.0' Light gray, to buff to ebony colour very gradually assuming increasingly darker colour (i.e. mafic content) Local brecciation, shearing, alteration throughout. Chlorite, sericite (muscovite) and diss. py & po 1-3% throughout. 128-156 Silicified 15-20% qtz. lacing 2-3% py(128-140) 140-154 60-70% qtz. laced. 175-185' K-spar patches(several), minor chlorite, carb. 198.0'-222' 20-25% qtz. lacing, dendritic chlorite (6") 205-206 1-2% py up to 5% locally. 0" q.v. at 213, 218, 220 light gray, 1-2% py	855	1%py	112.5'	115.9'	3.4'	Nil		
			856	1%py	115.9'	120.3'	4.4'	Nil		
			857	2%py	133.6'	128.0'	4.4'	Tr		
			858	1-2%py	138.0'	143.4'	5.4'	Nil		
			859	1-40py	153.8'	156.7'	2.9'	0.001		
			860	1-2%py	174.2'	178.0'	3.8'	0.003		
			861	1%py	181.6'	184.9'	3.3'	0.005		
			862	Trpy	188.0'	190.0'	2.0'	0.011		
			863	1-2%py	198.5'	202.6'	4.1'	0.004		
			864	"	202.6'	208.0'	5.4'	0.003		
			865	"	212.7'	214.7'	2.0'	Tr		
			866	1%py	216.5'	222.0'	5.5'	0.010		
			9033		184.9'	188.0'	3.1'	TRACE		
			9034		190.0'	194.3'	4.3'	0.002		
			9035		194.3'	198.5'	4.2'	0.011		
			9036		214.7'	216.5'	1.8'	0.002		
			9037		222.0'	225.9'	3.9'	0.002		

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-4 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS				
FROM	TO		NO.	SURF PHENOMENON	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	%	Uz/To	AREASSA	Oz/Ton
115.0'	376.3'	continued...									
		243-285' - pale, creamy colour, yellowish tinge below 256.0', 10-7.5% qtz. lacing throughout	867	1%py	225.9'	228.0'	2.1'	0.001			
		250-252 - 5% py	868	-2%py	248.0'	252.0'	4.0'	0.005			
		257-258 - qtz. vein - 5% py	869	18%py	256.3'	259.6'	3.3'	N11			
		262-263 - " " - 2-3% py.chl. } qtz. veins	870	"	259.6'	263.6'	4.0'	0.003			
		285-376.3' - mixture of pale-cream to yellow green and dark chlorite-biotite granite. Average 1-2% diss. py. also 10% qtz. lacing throughout-at 60-80° to core axis.	871	"	274.3'	278.0'	3.7'	0.001			
		305-306 - buff-cream colour	872	"	294.3'	298.0'	3.7'	0.002			
		314-315 " " "	873	"	298.0'	301.5'	3.5'	0.003			
		321-325 - y-green altr. 323-324-30% qtz.	874	1-2%py	313.0'	317.0'	4.0'	0.003			
		327-330 - y-green " 15% qtz.	875	"py	323.3'	327.1'	3.8'	0.007			
		352-360.5 strongly altered.	876	1%py	339.8'	344.2'	4.4'	0.005			
		362.0-362.4 - chlorite-to (c zone-soft) extremely shrd (fault-gauge).	877	"	361.2'	364.2'	3.0'	N11			
		632.4-365.8 - fine grained strongly altered greenish. sharp contact at 40° to c-axis - 2% py at contact.	878	"	364.2'	366.2'	2.0'	N11			
			879	"	375.3'	378.0'	2.7'	N11			
376.3'	383.5'	QUARTZ POPYRY (SHEARED) Similar to unit described in dd holes #1,2,3. Medium gray with large up to 1 cm. qtz. phenocrysts = (darks, fractured up to 30% of rock). Both contacts sharp at 75° to c. axis with 1" q.v. on lower contact. 382.0-382.5' granite inclusion	880		381.1'	384.4'	3.3'	N11			
			9038		384.4'	388.0'	3.6'	TRACE	0.001		

LANGRANGES - TOP-DOWN - 346-1158

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-4 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			Au ASSAYS			
FROM	TO		NO.	FOOTAGE		%	Au		
				FROM	TO		TOTAL	Oz/Ton	ASSAY	Oz/Ton
383.5'	1248.0'	<p>GRANITE</p> <p>Medium to coarse grained gray to greenish gray granitic rock. Biotite and chlorite provides darker colour in sections alternating with light gray and altered yellow-green sections. Upper 200-300' are pale gray to cream coloured with occasional pink sections. Alteration and shearing is concentrated in narrow 10-50' zones throughout. Quartz veining of 3-6" bull qtz. and qtz. lacing up to 40-50% of core over narrow 5-50' sections is not uncommon.</p> <p>Mineralization 3-5% py & po tr cpy is common in the pale pink zone. Darker chloritic section averages 1-2% py po with local sph, galena cpy. Zones of intense shearing carry up to 5-10% py & po over 1-3' widths.</p> <p>Silicification and chloritization is especially prominent from 900-1100 feet.</p> <p>383.5'-760.0' Predominantly pale gray, whitish or pinkish with minor local dark green section 10-30' especially near the base of the section. 3-5% py & po common (tr qv. occasionally) local silicification.</p> <p>309.5-397 - Pale cream strongly bleached.</p> <p>397-422 - 5-10% qtz. lacing, rapidly diminishing below</p> <p>422-448 - pale gray-minor chl-bio.ite dark green sections 2% diss. sulfide.</p> <p>448-458 - pinkish tinge 2-3% diss. py</p> <p>463-468 - dark green - chloritized 5-10% py common 3-4" qtz. veins.</p> <p>468-535 - pale gray occasional chl, biotite patches 1-3' + sulf.</p>	881	Typ	388.0'	392.4'	4.4'	0.079	0.036
			882	2%py	392.4'	394.5'	2.1'	0.008	0.011
			883	1%py	410.0'	413.3'	3.3'	0.001	
			884	3%py	428.0'	433.9'	5.9'	0.001	
			885	2%py	445.8'	450.6'	4.8'	0.003	
			886	1-2% py	450.6'	455.7'	5.1'	Nil	
			887	2%py	457.7'	460.7'	3.0'	Tr	
			888	2-3% py	468.0'	473.0'	5.0'	0.003	
			889	3-5% py	473.0'	478.0'	5.0'	0.001	
			890	3-4% py	478.0'	483.0'	5.0'	0.002	
			891	3%py	483.0'	488.4'	5.4'	Tr	
			892	1%py	496.1'	501.3'	5.2'	Tr	
			893	3-5% py	512.8'	514.1'	1.3'	0.160	0.067
			894	1-2% py	524.8'	526.8'	2.0'	0.010	0.001
			9039		394.5'	398.0'	3.5'	Nil	0.003
			9040		501.3'	504.5'	3.2'	Nil	TRACE
			9041		504.5'	508.6'	4.0'	Nil	TRACE
			9042		508.6'	512.8'	4.2'	Nil	TRACE
			9043		514.1'	519.5'	5.4'	0.002	0.001
			9044		519.4'	524.8'	5.2'	Nil	TRACE
		9045		526.8'	531.2'	4.4'	0.004	TRACE	
		9046		531.2'	535.0'	3.8'	TRACE	TRACE	
		9047		617.4'	621.7'	4.3'	Nil	0.001	
		9048		621.7'	625.7'	4.0'	Nil	TRACE	
		9049		628.4'	634.5'	6.1'	TRACE	0.003	
		9050		634.5'	640.0'	5.5'	0.004		
		9051		640.0'	645.5'	5.5'	0.004		
		9052		673.0'	677.5'	4.5'	0.001		
		9053		680.3'	687.0'	6.7'	Nil		
		9054		751.0'	755.2'	4.2'	0.005		

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubct)
 HOLE NO. SA-83-4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-4 SHEET NO. 5

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Au					
					FROM	TO	TOTAL	%	oz/Ton	ASSAY	oz/Ton		
303.5'	1248.0'	Granite continued...											
		468-535-(505-525) pinkish section strongly altered yellow-green for remainder of section	895	1%py	553.8'	558.1'	4.3'		0.006				
		535-560-pale-whitish with minor greenish tint.	896	5%po	564.5'	568.5'	4.0'		Tr				
		560-573 1-2" patches (mafic xenoliths or fragments) po is now dominant over py (2-3% po)	897	1-2% py/po	568.5'	573.5'	5.0'		Nil				
		573-653 - 2-5% po & py pale-cream colour local shear bx. zones	898	2% py	549.4'	553.4'	4.0'		Nil				
		608-617' 10" pinkish qtz. vein at centre	899	1-2% py/po	596.9'	601.3'	4.6'		0.003				
		617-630 shr-bx.	900	1-2% py/po	606.9'	612.1'	5.2'		Nil	0.001			
		630-693 many 3-4" qtz. veins darker greenish core	901	3-5% py/po	612.1'	617.4'	5.3'		0.500	0.021			
		653-691 dark section dominates with only 1-2% py.	902	1% po	625.7'	628.4'	2.7'		0.018	0.002			
		691-755.5 alternating dark green-creamy granite qtz.veins in patches @ 691-709, 10-15% 70° to core axis	903	3% "	645.5'	648.0'	2.5'		0.021				
		755.5-760 buff-pinkish, fine grained 1-2% diss. py (looks like pink felspar porphyry)	904	3-5% po py	648.0'	652.0'	4.0'		0.009				
		760-771 - strong shear-breccia. (769.4-770) dark green soft (fault gauge?)	905	2% "	652.0'	656.8'	4.8'		Tr				
		771-1248.0' Predominantly dark greenish granite with minor pale gray sections. Coarser in appearance, 1-2% py more locally. Several strong shear zones.	906	3-5% po py	677.5'	680.3'	2.8'		0.010				
		870-912' very strong local shear-bx, parallel to core axis green to buff sheared sections in dark granite	907	2-3% po py	687.0'	691.0'	4.0'		0.004				
		1-2% sulfides.	908	2-7% py	705.4'	709.1'	3.7'		0.001				
		shr-bx @ 808 up to 10% qtz. lacing	909	1-2%py	720.6'	723.6'	3.0'		Nil				
		810.5-814.5'	910	"	723.6'	728.0'	4.4'		Nil				
		817, 839-843	911	2%py	755.2'	760.2'	5.0'		0.018				
		853-912.1 - 3% py, 10-15% quartz laced up to 25% (883-893) entire section strongly sheared and brecciated almost parallel to core axis	912	1-2%py	760.2'	764.6'	4.4'		0.006				
			913	"	768.8'	771.5'	2.7'		Tr				
			914	1%py	783.8'	788.0'	4.2'		0.002				
			915	2%py	810.3'	814.3'	4.0'		Nil				
			916	2%py	838.0'	842.9'	4.9'		0.002				
			917	"	870.5'	874.5'	4.0'		0.001				
			9055		764.6'	768.8'	4.2'		0.003				
			9056		894.5'	898.0'	3.5'		0.002	0.001			
			9057		926.0'	928.0'	2.0'		0.001				
			9058		929.0'	934.0'	5.0'		Nil				
			9059		934.0'	939.5'	4.5'		0.002				
			9060		109.0'	1113.5'	4.5'		0.002	0.002			

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-4 SHEET NO. 6

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% Py IDLS	FOOTAGE		%	Au oz/ton	Ag oz/ton	Cu oz/ton	REAS
					FROM	TO						TOTAL
303.5-	248.0'	Granite continued...	918	1-2% py	874.5	878.0	3.5'				
		923-958 - mid green- altered granite, large blebs of py/po/sph (up to 1 1/2") along occasional narrow seams heated with gray qtz. locally 10-15% qtz., 3-5% py po. Sph. blebs (928-955.5').	919	2%po	878.0	879.8	1.8'				
			920	5-5%py	880.0	892.0	4.0'				
			921	2%py po	892.0	894.5	2.5'				
		958-987 Strongly shr'd bx-altered locally up to 40% qtz. lacing - 5-10% py po, 983-983	922	2%py	898.0	902.2	4.2'				0.01
			923	1%py	902.2	905.6	3.4'				0.01
		987-1022 -chlorite on shear slips - mod. alteration, minor shearing.	924	1% py	911.3	914.8	3.7'				0.002
			925	2% py po	914.8	918.0	3.2'				0.002
		1031-1039 -light coloured 20% qtz. laced chlorite & py patches(po)	926	3%py	664.4	667.2	2.8'				0.003
		1043-1048 -altered zone, light	927	2-3% py po	921.0	926.0	5.0'				0.003
		1045.5-1047-30% qtz., 10% py po	928	2-3% py po	928.0	929.0	1.0'				0.011
		1070-1081 -80% shr-bx-altered Tr, py, po, chl.	929	1-2% py	939.5	941.6	2.1'				0.001
		1094.5-1097.6 strong shr. bx 60% qtz. 3-5% py po	930	2%py	941.6	942.5	0.8'				0.020
		1097.6'-1151 strongly altered and shear-bx. local quartz lacing up to 40%, sulphides up to 10%. Silicified, pale green colour, heavy chlorite on shears (blue green mud)	931	2% py po	942.5	945.1	2.6'				0.005
		1114.0 -6" py, po (10%)	932	2-3% py	945.1	947.4	2.3'				0.005
		1125.6'-shr.-bx 6" qtz. vein 1-2% po	933	2-3% py	958.0	960.9	2.9'				0.005
		1135-1145-50% gray-white quartz, massive and veined 3-5% py patches & chlorite	934	2-3% py	960.9	965.1	4.2'				0.004
		1144.3'-1145.0' qtz. vein 30% py	935	4%py po	965.1	968.0	2.9'				0.002
		1145-1151 5% qtz. laced 2-3% diss. py.	936	2% py	969.4	974.4	5.0'				Nil
			937	2% py	974.4	979.4	5.0'				Tr
		1151-1248 Biotite granite with pale greenish altered sections. Gradually diminishing alteration with depth. Local alteration, shear-bx and qtz. veining.	938	1%po	979.4	983.6	4.2'				Tr
			939	-	994.9	998.6	3.7'				Nil
			940	1%py	1000.8	1005.5	4.7'				0.001
			941	4%py po	1014.2	1019.3	5.1'				Tr
			942	2-3% py po	1019.3	1023.8	4.5'				Tr
			943	-	1023.8	1027.6	3.8'				0.003
			944	2% py	1034.4	1038.0	3.6'				0.001
			945	2-4% py po	1043.0	1048.0	5.0'				0.004
			946	1% py	1069.5	1074.8	5.3'				0.002

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (subet)
 HOLE NO. SA-83-4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-4 SHEET NO. 7

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				AU ASSAYS		
FROM	TO		NO.	% PHOSPHIDES	FOOTAGE		AU ASSAY	Au oz/ton	oz/ton
					FROM	TO				TOTAL
383.5'	1248.0'	Granite continued...	947	2%py	1078.7	1078.5	1.8'	Tr	
		1160-1185 - minor local alteration, occasional local 2-3% py-po zones & shearing at 1160, 1169, 1183 (1173-1176-shr-bx)	948	" "	1090.6	1094.8	4.2'	0.003	
			949	" "	1094.8	1098.0	3.2'	0.005	
			950	2%py	1098.0	1102.8	4.8'	Nil	
		1185-1248 - minor chl. on slips - shr. bx local gray 1/4" quartz veins at 45° to core axis	951	1% "	1102.8	1107.6	4.8'	Nil	
			952	" "	1113.5	1116.6	3.1'	0.013	0.021
			953	2% "	1122.7	1126.8	4.1'	0.001	0.001
		1206.5-1200 white qtz. vein barren	954	" "	1126.8	1131.0	4.2'	0.001	Nil
		1218.4-1222 sheared, bleached, chloritized 1% po	955	3-5% "	1131.0	1136.0	5.2'	0.003	0.020
		1225-1227.6 shr-bx Tr sph.	956	2-3% "	1136.2	1138.8	2.6'	0.005	0.003
		1238.4 - 1 1/2" qtz. vein, 20% py	957	1-5% "	1138.8	1143.7	4.9'	0.006	0.011
		1243.6 - 1245.8' shr-bx	958	5%py	1143.7	1145.3	1.6'	0.026	0.035
			959	3-4%py	1145.3	1149.1	3.8'	0.006	0.004
			960	2-3%py	1149.1	1151.7	2.6'	0.001	0.002
			961	1-2%py	1159.2	1162.4	3.2'	0.002	0.008
			962	1-2%py	1162.4	1166.0	3.6'	0.002	0.002
			963	" "	1170.9	1175.4	4.5'	0.001	0.049
			964	" "	1175.4	1178.2	2.8'	0.001	0.003
			965	" "	1188.9	1192.9	4.0'	Nil	
			966	" "	1200.4	1203.8	3.4'	0.001	
			967	" "	1203.8	1208.0	4.2'	Tr	
			968	" "	1208.0	1209.8	1.8'	Nil	
			969	" "	1218.0	1221.9	3.9'	Nil	
			970	" "	1224.7	1228.0	3.3'	0.001	
			971	" "	1234.5	1239.1	4.6'	Tr	
			972	" "	1239.1	1244.4	5.3'	0.001	
			973	" "	1244.4	1248.0	3.6'	Tr	
			974	" "	C O M P O S I T E			0.007	
			9061	" "	1116.6	1122.7	6.1'	0.001	TRACE
			9062	" "	1166.0	1170.9	4.9'	0.002	0.002

E.D.H.

JHS

LANGRISHES - TORONTO - 286-1168

1113.5'-1115.4'

Use Zone

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-5 LENGTH 1307.0'
 LOCATION G495
 LATITUDE 6495 DEPARTURE 3:46W
 ELEVATION Surface AZIMUTH 102° DIP -60°
 STARTED Feb. 22/83 FINISHED March 2/83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
200'	59°	105°	1000'	58°	115°
400'	60°	107°	1200'	57°	119°
600'	61°	111°			
800'	60°	112°			

HOLE NO. SA-83-5 SHEET NO. 1

REMARKS _____

LOGGED BY J. Hinzer

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	FOOTAGE		%	Au					
				FROM	TO		TOTAL	oz/Ton	oz/Ton	oz/Ton		
0 -	4.0'	CASING (Bedrock at 2.5 feet.)										
4.0'	515.1'	<p>GREENSTONE (Highly Sheared)</p> <p>Dark green, fine grained, basaltic-andesitic rock. Extremely sheared with shearing, foliation, and possible bedding, varying from 0-20° to core axis. Rock is soft with carbonate veins & diss. throughout. Local silicification i.e.-hairline fractures massive patches giving bleached appearance next to fractures. Hairline fractures etc., are at 80° to core axis. Local narrow 2-5' bx zones are healed with carbonate.</p> <p>Thin cherty looking bands often highly fractured and contorted up to 1/2" thick are not uncommon.</p> <p>The central portion of the unit has a distinct bedded appearance, a gritty texture and resembles graywacke and argillite locally. Some observed bedding features may, however, be due to shearing parallel to core axis and narrow qtz. veins 1/16" with bleached and altered rims.</p> <p>Trace to 1% diss. py, po, cpy.</p> <p>4.0-95.0' tuffs in appearance 18-23-bx-with carb. healing. 68.5' local patch of pink - K spar?</p> <p>95.0'-190' Cherty ? Interflow section, many narrow cherty sections, greenish white, reddish brown, very hard 95-110' 115-117 shrd-bx'd.</p> <p><u>138-142 MAFIC DYKE</u> (lamprophyre) very fine grain, black, minor perpendicular fractures. Contacts obscure 6-8" wide irregular.</p> <p>143-145 white chert 166.5-169.5 bx.healed with carbanate 169-190 cherty bx.</p>										

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-5 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-5 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				Au ASSAYS			
FROM	TO		NO.	% PH IOES	FOOTAGE		%	oz/Ton	oz/TON	oz/TON
					FROM	TO					TOTAL
4.0'	515.1'	continued...								
		208-218 cherty bx, micro faulting etc. } some 1-2"	975	-2%py	268.0'	273.0'	5.0'			0.004
		234-236.5 bx, healed with carbonate } qtz. veins and 1/2"	976	% py	281.0'	283.6'	2.6'			0.001
		263-267 bx. " " " } chlorite patches.	977	1-2%py	330.0'	342.0'	4.0'			Tr
		269-273 cherty locally	978	2-3%py	363.5'	368.0'	4.7'			0.002
		283-288 cherty.	979	1-2%py	373.6'	377.0'	2.4'			0.077
		288-515.1' Massive andesitic unit with still some evidence of possible bedding but much less obvious or intense than above.	980	1-py	413.2'	418.0'	4.8'			Nil
		338 - 1-3% py, po minor chlorite, qtz. veins.	981	1-2%py	425.3'	428.6'	3.3'			Nil
		357-378 abundant carb. veinlets, up to 20% bluish colour, in rock, chert, K spar @ 375'	982	1-2%py	436.8'	440.0'	3.2'			Nil
		365-366 -major sheared qtz vein 30-40° to c-axis 5% po, py	983	1-2%py	440.0'	445.2'	5.2'			Nil
		378-454 - slightly more bedded features again hairline fractures diminish below 400'.	984	"	445.2'	450.2'	5.0'			Nil
		414-417 <u>Quartz Porphyry</u> (as in all previous drill holes)	985	1-py	479.0'	481.0'	2.0'			Nil
		Intense carb. veining and sil. for three ft. above & below.	986	"	485.3'	488.2'	2.9'			Nil
		428' - 6" qtz., fels. vein pink tr. chl, py.	987	-2%py	493.8'	498.0'	4.2'			0.009
		428' - 454 - 2-3% py po-darker, more siliceous.	988	2%py	498.0'	501.3'	2.3'			0.026
		454' - 479 - Dark green chlorite rich andesite	989	1-2%py	501.3'	503.5'	2.2'			Tr
		479' - 515.1' - Contact Zone	990	2-3%py	503.5'	508.0'	4.5'			0.026
			991	2%py	508.0'	512.8'	4.8'			0.002
			992	% "	512.0'	515.1'	2.3'			Nil
			993	1-10%py	515.1'	519.6'	4.5'			0.003
			994	1-5%py	519.6'	522.3'	2.7'			0.005
			995	-2%py	522.3'	525.7'	3.4'			Tr
			996	2-3%py	525.7'	529.9'	4.2'			Tr
			9063		368.0'	373.6'	5.6'			Nil
			9064		377.0'	382.0'	5.0'			Nil
515.1'	1308.0'	GRANITE								
		Biotite granite, medium to coarse grained with darker biotite chlorite rich sections, with numerous yellow-green shrd. altered zones, and some buff-gray-pinkish zones. Shear-breccia and strongly sheared section parallel to the core axis are present								

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-5 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-5 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			Au ASSAYS					
FROM	TO		NO.	% PH IDES	FOOTAGE FROM TO TOTAL	%	12/Ton	REASSAY	OZ/TON		
515.1'	1308.0'	GRANITE Continued... locally. Average 2-3% py & po with local sections up to 10% py po Tr py, sph, galena. Silicification (quartz lacing locally up to 40%) and sericite (yellow-green areas) and chlorite (shear slips) in lower portion of hole are the most prominent alteration features Contact is sharp at 50° to core axis 515.1-543 - Light buff-green gray contact alteration. 515.1-522 - shr. bx. 5-10% py po. 522-525.5 - pink-buff, 65% qtz. laced, 1-2% py po 525.5-531 - shr-bx 20% qtz. laced " " 533-535 - 20% qtz.- 2-3% py. 543-607 - Dark biotite granite local weak altr. occasional 1-3" qtz. veins. 1% py & po. 560-562.5 buff - 5-10% qtz. 607 - 620 - light green-gray to pink (615-620) qtz. laced 10-15% 2-3% py, epidote, chlorite, K-spar locally 620-653. mixed darker and lighter areas. 640.5-643.5 30% qtz.-laced, K-spar. 644 6" buff with 7-8% py & po 653-670 - Light gray-green, 15% qtz. lacing 664-669-qtz. ladder veins 10% py & po 15-20% qtz. 670-714 25-30% qtz.lacing with up to 70% qtz. locally. 668.5-669.5' qtz. vein bx. zone 60% qtz. 676 - 677.5' " " , gray-green, chl. biotite 714 - 762 dark chlorite biotite rich core 728-729.5 buff-pink 30% qtz 739-740.5 " " -green 30% qtz. 748-749 shr-bx. qtz. vein, chlorite stringers	997	1-2% py po	529.9'	535.3'	5.4'		0.004		
			990	2% "	535.3'	540.2'	4.9'		0.001		
			999	1-2%	560.4'	564.5'	4.1'		0.001		
			1000	2-3% py	607.0'	611.8'	4.8'		0.003		
			8936	3-5% py	611.0'	615.7'	3.9'		0.002	0.002	
			8937	1-2% py	615.7'	620.0'	4.3'		0.031	0.001	
			8938	2% py	620.0'	622.3'	2.3'		0.002	0.002	
			8939	1-2%	631.0'	636.0'	5.0'		0.007		
				py po							
				1% py	636.0'	640.1'	4.1'		0.002		
				po							
			8941	2% py	640.1'	644.2'	4.1'		0.002		
				po							
			8942	2% py po	644.1'	645.8'	1.7'		Nil		
			8943	3% py po	659.7'	661.1'	5.4'		0.011	0.007	
			8944	10% "	665.1'	668.2'	3.1'		0.056	0.035	
			8945	2-3%	653.8'	659.7'	5.9'		0.005	0.003	
			8946	3% "	668.2'	672.4'	4.2'		0.007	0.007	
			8947	1-2%	672.4'	678.0'	5.6'		0.001	0.005	
			8948	2-3%	678.0'	682.9'	4.9'		0.006	0.083	
			8949	1-2%	682.9'	687.5'	4.6'		0.005	0.003	
			8950	2% py	687.5'	692.1'	4.6'		0.003	0.003	
			8951	"	692.1'	677.0'	4.9'		0.005	0.003	
			8952	"	702.3'	707.5'	5.2'		0.001		
			8953	3% "	707.5'	712.8'	5.3'		0.004		
			9065		730.3'	736.0'	5.6'		0.001		
			9066		736.0'	741.5'	5.5'		TRACE		
			9067		741.5'	747.0'	5.5'		0.002		
			9068		775.4'	780.1'	4.7'		0.001		
			9069		789.3'	793.0'	3.7'		0.002	0.002	

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-5 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-5 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				AU ASSAYS				
FROM	TO		NO.	% PH SIDES	FOOTAGE FROM TO	TOTAL	%	Oz/Ton	REASSAY	OZ/TON	
515.1'	1308.0'	continued...	8954	2-3% py	712.8'	718.0'	5.2'		0.006		
		762-801 gray green, silicified qtz. lacing greater than 20% occasional dark chl-biotite sections, 1-2% py & po	8955	3%"	718.0'	719.9'	1.9'		0.006		
		767-770 60% qtz. laced	8956	3-5% py	726.5'	730.3'	3.8'		0.008		
		780-781 " " "	8957	2%py	747.0'	750.9'	3.9'		0.002		
		796-798 " " "	8958	4%" po	758.0'	762.2'	4.2'		0.001		
		Local buff sections with q.v. at 763, 769, 782, and shr.-bx. @ 788.	8959	2%py	762.0'	767.0'	4.8'		0.001		
		801-845 mixed gray green and biotite chlorite rich core average	8960	5-7% py po	767.0'	772.0'	5.0'		0.001		
		5% qtz., 1-2% sulfides.	8961	2-3% pypo	772.0'	775.4'	3.4'		0.011		
		845-888 light gray-greenish and buff coloured (pinkish) with local strong yellow-green alteration, 5-10% qtz. and 1-3% py. po.	8962	2%"	780.1'	784.9'	4.8'		0.001	0.001	
		861-867-buff-pink	8963	3%"	784.9'	789.3'	4.4'		0.044	0.002	
		869-870- " "	8964	3%"	793.0'	795.4'	2.4'		0.002	NIL	
		shr-bx @ 873, 875, 877-879.	8965	2-3%	795.4'	800.7'	5.3'		0.040	0.001	
		880-888 strong yellow-green alteration	8966	2%py	815.1'	820.0'	4.9'		0.001		
		883.5 6" qtz. vein with 2" py bleb	8967	1-2%	830.3'	832.0'	1.7'		0.001		
		884.5-886 buff-green	8968	2-3% py	844.3'	848.0'	3.7'		NIL		
		888-981 Mixed altered greenish gray and biotite chlorite-dark granite, local shr-bx & sulfide concentrations to 3-5%, 4-6" qtz. veins common below 928'	8969	1-2% py	855.2'	858.0'	2.8'		0.003		
		893 - shr.-bx	8970	2%py	861.7'	867.2'	5.5'		0.002		
		895 - 8" gray qtz. vein @ 50° to core axis	8971	2-3%"	867.2'	870.2'	3.0'		0.001		
		911-912- shr-bx	8972	" "	878.0'	882.1'	4.1'		0.001		
		934.5-935.5 shr-bx qtz. vein 4" py & po possible. ankerite @ 937, 939	8973	7-10% py	882.1'	883.9'	1.8'		0.010		
		941-942 shr-bx	8974	3-4%	883.9'	887.5'	3.6'		0.003		
		944-945 " "	8975	2-3% py	894.0'	895.4'	1.5'		0.001		
		971-972 extreme shr-bx chloritic.	8976	" "	923.4'	928.5'	5.1'		0.007		
			8977	1-2% py	928.5'	932.0'	3.5'		Tr		
			8978	3%po	934.4'	937.5'	3.1'		NIL		
			8979	2%py po	939.8'	945.2'	5.4'		0.002		
			9070		800.7'	805.0'	4.3'		0.001		
			9071		805.0'	810.0'	5.0'		0.002		
			9072		810.0'	815.1'	5.1'		0.004		

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-5 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. SA-83-5 SHEET NO. 5

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			Au ASSAYS						
FROM	TO		NO.	% Sph py	FOOTAGE		%	Au				
					FROM	TO		TOTAL	Oz/Ton	ASSAY	Oz/Ton	
515.1'	1308.0'	continued... 880-981 cont'd. 957-974 20-30% qtz. veining 3% py po blebs-much dark bluish green chl. mud on shear slips. 981-1083 - chloritized biotite mixed dark & light granite, chlorite stringers common, local strong silica & heavy sulfide mineralization. 1004.5-1006 - 50% qtz. (5%-10% py) 1022 - 1023 - 8% qtz. vein white, barren 1030 - 1031 - " " " " " 1040 - 1052 - common 4-6" qtz. veins, chlorite wisps Tr py & po 1052 - 1055 - light buff 30% white qtz. 3"-1' veins 1-2% py po 1077 - 1078 - qtz. vein parallel to core axis 1/2" py blebs po 1082 - 1083 - 6" qtz. vein tr py po 1083 - 1168 - as above, but much less chloritized, and more yellow-green alteration with 1-2% sulfides. 1098.5-1105.5 - Shr-bx yellow-green altr'd, qtz. lase 10% 1-2% diss. py. 1099.-1100.5 - shr. bx. dark green 1105.5'-1141-yellow-green (similar to DDh # 83-1,2) with local 10% qtz.lacing 1-2% py po 1141 - 1168 - increasing yellow-green alteration & shr.-bx. 1168 - 1308 - sheared and altered granite, alternating chlorite-biotite, buff-pink and yellow-green sections, local qtz. lacing and splashes of sph, galena and up to 3-5% py & po. Shr. breccia zones abundant. Major shearing is almost parallel to core axis over 5-20 foot sections.	8980	1-2% py po	965.4'	968.5'	3.1'		N11	NIL		
			8981	3-5%	968.5'	972.3'	3.8'	0.088	0.047			
			8982	2% "	972.3'	975.2'	2.9'		N11	NIL		
			8983	3% "	975.2'	978.9'	3.7'	0.002				
			8984	2-3% py	989.3'	993.3'	4.0'		N11			
			8985	"	1001.3'	1005.0'	3.7'		Tr			
			8986	10% py	1005.0'	1006.6'	1.6'	0.005				
			8987	1% py	1006.6'	1008.0'	1.4'		Tr			
			8988	1-2% py	1020.8'	1025.1'	4.3'		Tr			
			8989	2-3% py	1030.3'	1044.0'	4.7'	0.001				
			8990	2% py	1044.0'	1048.5'	4.5'	0.004				
			8991	1-2% py	1052.4'	1056.1'	3.7'	0.004				
			8992	" "	1070.3'	1074.5'	4.2'	0.004				
			8993	3-4% py	1074.5'	1078.4'	3.9'	0.019	0.095			
			8994	2% py	1085.0'	1088.8'	3.8'		N11			
			8995	1-2% py	1096.0'	1099.1'	3.1'		N11	TRACE		
			8996	" "	1099.1'	1024.4'	3.3'	0.020	0.030			
			8997	2% py	1102.4'	1105.3'	2.9'	0.005	0.004			
			8998	1-2% py	1121.1'	1124.3'	3.2'	0.005	0.007			
			8999	" "	1136.2'	1139.5'	3.2'	0.008	0.013			
			9000	2-3% py	945.2'	950.2'	5.0'	0.002				
			9001	" "	1147.0'	1151.0'	4.0'	0.019	0.004			
			9002	1-2% py	1157.8'	1163.8'	6.0'	0.002	0.001			
			9003	" "	1081.3'	1085.0'	3.7'	0.004	0.001			
			9004	1 sph	1169.6'	1171.1'	1.5'	0.016	0.019			
			9005	1% py	1171.1'	1175.9'	4.8'	0.005	0.009			
			9006	1-2% py	1164.5'	1169.1'	4.6'	0.005	0.003			
			9007	1% py	1192.8'	1198.0'	5.2'	0.032	0.015			

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-5 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. SA-83-5 SHEET NO. 6

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				AU ASSAYS		
FROM	TO		NO.	SIX INCHES	FOOTAGE FROM TO	TOTAL	%	1/2 TON	REASSAY oz/TON
515.1'	1308.0'	continued...	9008	2-5% py	1202.8	1207.8	5.0'	0.004	0.003
		1168-1198 - strong shr-bx, 20% qtz. lacing, Tr sph, galena 1-2% py po (shr.bx over 2' sections) yellow-green	9009	1-2% py	1207.8	1211.9	3.1'	0.001	
		1198-1204.5 chlorite biotite-granite	9010	" "	1216.7	1219.2	2.5'	0.006	
		1204.5-1219 buff-cream, locally talcose 5-10% qtz. laced 2-3% py	9011	3-4% py	1233.0	1235.8	3.0'	0.003	
		1219-1226 - gray granite	9012	2-3% py	1240.3	1243.2	2.9'	0.004	
		1226-1237.5' - altered gray granite 10% qtz. lacing, 1-2% py p Tr. galena	9013	2% py	1243.2	1248.2	5.0'	Nil	
		1233.5-1235 (20% qtz. lacing)	9014	4-5% py	1248.2	1253.0	4.8'	0.002	
		1237.5-1270 - strongly shr-bx with yellow-green alteration 20-30% qtz. lacing at 10° to core axis	9015	10% py	1253.0	1258.0	5.0'	0.009	
		1248-1268 - 3-5% suf. py, po, sph, gal.	9016	5-10% py	1258.0	1260.6	2.6'	0.002	
		1262-1264 - strong shr-bx.	9017	15% py	1260.6	1265.1	4.5'	0.007	
		1258-1260 - 5-10% py po.	9018	5-7% py	1265.1	1268.7	3.6'	0.005	
		1270-1288 - locally altered gray granite 1-2%	9019	1-2% py	1284.5	1288.5	4.0'	Tr	
		1288-1301 - pale cream-gray local pink (1290-94) yellow-green 3-5% py in small blebs throughout	9020	" "	1288.5	1293.7	5.2'	Nil	
		1301-1308 - locally altered gray granite. 10% qtz. lace shr-bx @ 1305.3 - 1306	9021	" "	1293.7	1298.9	5.2'	Nil	
		1305-1307 altered yellow-green 3-5% py	9022	2-3% py	1298.9	1303.6	4.7'	Nil	
		E.O.H.	9023	3% ypo	1303.6	1308.0	4.4'	Nil	
			9024	C H P O S I T E				0.002	
			9073		1078.4	1081.3	2.9'	0.012	0.018
			9074		1105.3	1110.0	4.7'	0.001	0.001
			9075		1131.0	1136.2	5.2'	0.007	0.009
			9076		1139.5	1143.0	3.5'	0.001	0.002
			9077		1143.0	1147.0	4.0'	0.003	0.003
			9078		1151.0	1157.8	6.8'	0.004	0.007
			9079		1163.8	1169.6	5.8'	0.004	0.005
			9080		1189.1	1192.8	3.7'	0.008	0.006
			9081		1198.0	1202.8	4.8'	0.003	0.003

J. H. I

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-6 LENGTH 355.0'
 LOCATION _____
 LATITUDE 20 + 00 S DEPARTURE 8 + 00 E
 ELEVATION Surface AZIMUTH 300° DIP -45°
 STARTED May 27, 1983 FINISHED May 29, 1983

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
100	45°				
200	43°				
300	42°				

HOLE NO. SA-83-6 SHEET NO. 1

REMARKS _____

LOGGED BY J. HINZER

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	PHOSPHORUS	FOOTAGE		%	%	OZ/TON	OZ/TON
				FROM	TO	TOTAL				
0	24.0'	OVERBURDEN								
24.0'	27.3'	PORPHYRITIC ANDESITE (FLOW) Dark green matrix with large up to 3cm felspar phenocrysts - white to cream coloured making up 30% of the rock. Lower contact - sharp at 70° to core axis.								
27.3'	99.5'	ANDESITE (TUFF OR FLOW) Fine grained with local more medium grained tuffaceous looking sections, dark green, highly sheared at 45° to core axis. Local sections of 1-5 feet contain tiny 1-3mm white lapilli or carbonate fitted vesicles. Local bedded appearance may be shr'd pillowed flows. Irregular 1/8"-1/4" quartz and carbonate veining and local patches of hairline fractures and cross fracturing. Sharp lower contact at 40-45° to core axis. 27.3'-33.0' Tiny 1-3mm white loppilli? vesicles? occasional po streaks. 33.0'-55.0' Fine grained - bedded tuff a shr'd pillows micro faulting @ 30° to core axis @ 41.5' 47'-51' 2-3% po/cpy Shearing at 60-70° to core axis and cross fractures at 20° to core axis. 1/8" white veins with 1/4" dark halos - locally bleached and brecciated. 55.0'-99.5' Sheared pillowed flow or tuff. - local silicification and bleaching with some brecciation between 79.5'-83.5', 95'-98', 86'-88' - local po/cpy splashes at 77', 82', 85', 95'.								

DIAMOND DRILL RECORD

NAME OF PROPERTY SR. ANTHONY GOLD (AUBET)

HOLE NO. SA-83-6 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ. TON	OZ. TON
				FROM	TO	TOTAL					
99.5'	127.0'	continued TUFFITE (CHERTY RHYOLITE TUFF) Greenish gray at top - more blue gray towards base. Very fine grained hard locally well bedded at 45° to core axis. Thin traces of pyrite and pyrrhotite throughout. Upper and lower contacts at 45-50° to core axis. 99.5'-102' Cherty greenish gray 102'-103' Contact zone @ 20° to c-axis - irregular qtz carb ⁿ zone. 103'-114' FINE GRAINED ANDESITE DIKE - mid green very homogeneous - hairline carb ⁿ fractures. 114'-116' Cherty 116'-121' FINE GRAINED ANDESITE DIKE - mid green very homogeneous - hairline carb ⁿ fractures. 124'-127' Coarse rhyotite tuff - lapilli tuff, 1-2mm bedded white lapilli.									
127.0'	197.0'	MIXED TUFF Intricately interbedded series of intermediate, felsic tuffs, cherts and possibly sediments. Strongly silicified, locally chloritized. Dark green to mid green to bluish gray colour. Many local areas of hairline fractures and brecciation. 127'-151' Mid - light green - hard - faintly bedded, local chert. 130'-131' Possible local fault zone 142'-143.5' Minor qtz carb ⁿ veins at 70° to core axis. 152.3-157.8' Rhy X-tal Tuff - or felsic quartz porphyry. Med. gray - 1-2mm gray lapilli (quartz) for up to 3% of core, occasional felspar phenocrysts. Upper contact at 45° to core axis.									

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-6 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Cu %	Zn %	AD	AG	Pb %	
					FROM	TO						TOTAL	01/TON	02/TON
127.0'	197.0'	continued										
		157.8'-160.6' light gray - buff cherty tuff - bended at 50° to core axis.										
		160.6'-162.5' Blue-gray rhy. tuff.										
		162.5'-167.0' Gray-green, chloritic.										
		167.0'-197.0' Greenish tuff - very hard with many local blue gray cherty sections. Bedding at 50-60° to core axis.										
		@ 190.5' 3/4" vein 10% py + po + Tr cpy.										
197.0'	227.0'	CHERTY RHYOLITE TUFF (TUFFITE) Predominantly cherty - buff - gray very finely laminated banded at 1/16"-1/18" layers or beds. Local sulfide patches.										
		198'-199' Black chert.										
		199'-202' Chloritic, 1-2% po Tr cpy.										
		202'-203' Black chert.										
		210'-220.5' Laminated cherts Tr po/cpy.										
		220'-225' Bedded green tuff.										
		225'-226' Laminated chert, 5-10% sulfides po, sph, cpy.	1502	6% py pocpy	225.4'	227.0'	1.6'	0.03	0.04	0.002	NIL	NIL
		226'-227' Graphitic tuff - cherty, 5-10% sulfides po, Tr py, cpy.										
227.0'	239.5'	MIXED TUFF as above (127.0'-197.0') 227'-231' Banded - laminated green-gray tuff, local po - cpy stringers - minor carb ⁿ veins.	1503	1% po	227.0'	232.0'	5.0'	0.02	TRACE	NIL		NIL

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-6 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Cu	Zn	AG	Pb		
					FROM	TO					TOTAL	%
227.0'	239.5'	continued										
		231'236' Chloritized gray - tuff up to 10% sulfide stringers po, cpy, sph.	1504	3-5% po Tr cpy	232.0'	235.8	3.8'	0.05	TRACE	TRACE	NIL	NIL
		236'-239.5' Heavily chloritic (238'-239.2' 2-3% sph.) Tr cpy po.	1505	3% py po Tr cpy	235.8'	238.3	2.5'	0.03	TRACE	TRACE	TRACE	NIL
239.5'	251.0'	AMPHIBOLITIC MAFIC FLOW OR GABBROIC INTRUSIVE Upper contact silicified at 60° to core axis, lower contact gradational - qtz carb ⁿ veins 1/4" common, med. green, 2-3mm dark amphibole grains, equant, coarse granular up to 50° of core. 246.5'-251.0' Altered dacitic tuff - possibly fine grained part of intrusive with quartz carbonate veining.	1506	3-5% sph, 3% po	238.3'	240.1	1.8'	TRACE	TRACE	0.001	NIL	NIL
251.0'	264.0'	TUFFITE - BEDDED CHERTY TUFF Bedded tuff - trace of graphitic material, well banded highly broken up and contorted, possibly major fault or shear - remobilized sulfides into tiny veinlets of po, sph, cpy. 254.4'-255' 25% po, Tr cpy minor graphite. 255.8' Local sph. blebs. 262.0' Strongly altered minor po, sph. 263'-264' 10-15% po 1% sph over 6" section strongly brecciated.	1507	10% po Tr sph cpy	254.5'	258.0	3.5'	0.02	0.01	NIL	NIL	NIL
			1508	20% po Tr cpy sph	261.5'	265.7	4.2'	0.07	TRACE	NIL	NIL	NIL
264.0'	311.0'	AMPHIBOLITIC MAFIC FLOW OR GABBROIC INTRUSIVE Similar to 239.5'-251.0': 263'-270.0' Altered dark med. green similar to 245.5'-251.0' - possibly sheared flow gabbro. 270'-275.6' Gabbroic - amphibolitic										

LANGRISHES - TOPONTO - 386-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-6 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	OZ./TON	OZ./TON
					FROM	TO					TOTAL
264.0'	311.0'	continued								
		276.5'-285.6' Strongly altered - carb ⁿ veined (246.5'-251.0')								
		285.6'-311.0' Amphibolitic - gabbroic								
		297'-306' Fine grained								
		308'-310' Fine grained } sheared sections								
310.0'	346.5'	CHERTY RHYOLITE (TUFFITE) Similar to 251'-264' above.								
		320'-331' Possible - shrd altered mafic tuff or flow substantial carbonate veining.								
		331'-338' Finely laminated cherty tuff - bedded 70-80° to core axis.								
		338'-341' Qtz - eye Rhyolite (X-tal tuff) or porphyry identical to 152.3'-157.8'. Upper and lower contacts short at 80° to core axis.								
		341'-346.5' Dark green silicified cherty section.								
346.5'	355.0'	MIXED TUFF Silicified dark green tuff with local cherty bands and alternating coarse and fine tuff and chert.								
		E.O.H.								

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-7 LENGTH 798.0
 LOCATION _____
 LATITUDE 3 + 65 S DEPARTURE 2 + 85 E
 ELEVATION Surface AZIMUTH 2880 DIP - 60°
 STARTED June 1, 1983 FINISHED June 5, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100	59°		500	56°	
200	58°		600	55°	
300	57°		700	54°	
400	56½°				

HOLE NO. SA-83-7 SHEET NO. 1

REMARKS _____

LOGGED BY J. HINZER

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SILICA IDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	6.0'	(Overburden) - Casing								
6.0'	31.6'	ANDESITE (Tuff or Pillowed Flow)								
		Dark green-gray, highly sheared chloritized, locally fairly course grained. Patches of fracture brecciation with up to ½" carbonate-quartz veins healing fractures. 1-2% py mostly on shears. Locally close to contact rock appears to be graphitic.	1509	1-2% py Tr	7.0'	12.5'	5.5'			0.007
		19'-22' weathered vein or fracture.	1510	2% py	22.2'	24.3'	2.1'			0.001
		23'28.6' granite intrusion - appears very coarsely porphyritic with some large .5-1cm bluish and gray qtz grains - possibly pegmatitic.	1511	3-5% py	27.0'	29.0'	2.1'			0.002
		27'-28' Barren white qtz vein -								
		@ 28.6' Contact sharp at 30° to core axis irregular. Contact at 31.6' sharp at 50° to core axis.								
31.6'	780.0'	GRANITE								
		Granite is variable ranging from coarse grained light gray to pink with abundant sericite-biotite grains up to 1cm in size in the upper part - to a slightly more bluish gray more medium grained section with little or no mica and much smaller sericitic flakes to a yellow-gray near the bottom even finer grained zone.	1512	10% py	31.8'	34.4'	2.6'			0.002
		Sections of strong pink alteration, white to buff bleached areas and yellow green-shear breccia occur throughout.	1513	3-5% py Tr gal.	34.4'	36.8'	2.4'			0.005
			1514	3% py	36.8'	39.1'	2.3'			0.001
			1515	3-5% py	39.1'	41.6'	2.5'			0.003

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)

HOLE NO. SA-83-7

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		AU	AU	AG
					FROM	TO				TOTAL	% REASSAY	01.10M	01.10M
31.6'	780.0'	continued							
	<u>31.6'-130.0'</u>	Coarse light gray-pink granite with large (1cm) sevecite biotite patches. Coarse-(Pink)-Biotite-Granite. Local quartz laced gray, yellow-green and bright buff-pink altered sections with or without quartz veins, throughout. Average 1-2% py content locally up to 10% traces of Sphalerite & galena abundant.							
	31.6'-35.8'	Highly sheared silicified contact zone many quartz meta? crystals. Quartz veins make up 20-30% of unit. Up to 5% pyrite.							
	35.8'-41.6'	Dark green altered strongly sheared rock locally shear brecciated. Quartz lacing up to 15% with veining @ 55° to core axis and shearing at 45° to core axis. Average 5-10% py content.							
	35.8'-36.6'	Quartz vein zone 2% galena, 1% sphalerite.							
	41.6'-130.0'	Coarse granite with many yellow-green altered sections and local pink patches 1-2% sulfides (py) Tr sph, galena throughout. Shearing at 45-60° to core axis and local qtz veins averaging 3-4" wide.	1516	2-3% py	41.6'	44.0'	2.4'		0.033
			1517	1% py	53.2'	56.8'	3.6'		0.001
			1518	1% py	56.8'	60.1'	3.3'		NIL
			1519	Tr py	60.1'	63.5'	2.4'		0.009
			1520	Tr py	69.4'	74.3'	4.9'		TRACE
	57'-62.0'	20% quartz Tr sph, galena (@ 58') - strong pink feldspar alteration at	1521	Tr py	74.3'	78.3'	4.0'		NIL
				1% Sph					
	71.5'-73.8', 76'-77', 92'-103'(weak) 120'-122, 129-131'		1522	2-3% py	87.6'	88.5'	1.9'		NIL
	72'-75' - 10-15% qtz-laced (white-gray qtz)		1523	Tr py	92.5'	96.9'	4.4'		0.001
	py (cubes) on small qtz veins @ 89, 101, 114, 115'		1524	Tr py	96.9'	98.5'	1.4'		NIL
	<u>130.0'-190.0'</u>	TRANSITION ZONE - COARSE BIOTITE GRANITE TO MEDIUM - BLUE - GRAY GRANITE	1525	Tr py	126.0'	130.6'	4.6'		0.001
		The sections is strongly sheared and altered with many qtz-laced, shear breccia zones and changes gradually from coarse biotite rich to medium grained darker bluish-greenish-gray granite.	1526	1-2% py	130.6'	134.2'	3.6'	TRACE	NIL
			1527	Tr py	134.2'	138.8'	4.6'	TRACE	0.068
			1528	1-2% py	138.8'	141.5'	2.7'	0.066	0.008

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-7 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO.	SULPHIDES	FOOTAGE		AU REASSAY	G/TON	AG
					FROM	TO				TOTAL
31.6'	780.0'	continued							
		<u>130.0'-190.0'</u>							
		130'-136' Shear brecciated and altered dark greenish qtz-lacing parallel to core axis less than 1% py local pink alteration patches, 141'-142', 144'-145', 146'-147', 156'-169' - local 1/2" py patches in last section.	1529	Tr py	142.7'	144.9'	2.2'	TRACE	
			1530	2% py	147.5'	151.3'	3.8'	0.001	
			1531	1% py	151.3'	155.2'	3.9'	-.002	
			1532	1% py	155.2'	157.7'	2.2'	0.001	
			1533	2% py	162.8'	166.2'	3.4'	NIL	
			1534	1-2% py	166.2'	172.1'	5.9'	NIL	
		151'-154' 60% quartz-barren white - 6" shr-bx at centre	1535	1% py	172.1'	177.1'	5.0'	0.003	
			1536	1-2% py	177.1'	179.0'	1.9'	NIL	
		166'-176.5' Dark greenish shr-bx - 2-3% py Tr galena, sph, 20-25% qtz laced,	1537	1% py	180.5'	183.0'	2.5'	0.008	
			1538	1% py	187.3'	192.3'	5.0'	NIL	
			1539	1-2% py	202.3'	204.9'	2.6'	0.002	
		181'-183' 30-40% qtz - dark gray - barren - dark green qtz lacing - shr-bx	1540	1% py	192.3'	198.0'	5.7'	0.001	
			1541	1% py	204.9'	208.4'	3.5'	0.001	
		187.5'-190' As above but only 10% qtz lacing parallel to core axis.	1542	1% py	220.0'	222.4'	2.5'	0.004	
			1543	1% py	232.4'	234.4'	2.0'	0.008	
		<u>190.0'-258.0'</u> MEDIUM GRANITE	1544	1% py	237.3'	240.3'	3.0'	TRACE	
			1545	2% py	247.2'	250.7'	3.5'	0.001	
		Bluish-greenish-gray, occasional local coarse biotite sections, sulfide content less than 1%, qtz veining less than 2% average at 40° to core axis.	1546	1% py	250.7'	254.0'	3.3'	TRACE	
			1547	1% py	257.4'	260.0'	2.6'	0.001	
			1548	2-3% py Tr Sph	260.0'	262.7'	2.7'	0.029 0.059	
		198.5'-199.5' Shr-bx - minor qtz only dark green qtz veins at 20° to core axis	1549	3-4% py	262.7'	268.0'	5.3'	0.007 0.013	
		207.0'-208.0' As above - local shr-bx at 221, 237.5 (Tr py), 24.2, 252'.	1550	1-2% py Tr Sph	268.0'	272.0'	4.0'	0.020 0.011	
		<u>258.0'-365.0'</u> WHITE GRANITE (To pinkish locally)	1551	1% py	272.0'	277.7'	5.7'	0.002 0.002	
		Entire area may be a highly altered bleached zone major quartz veining is abundant throughout	1552	2-3% py Tr Sph gal.	277.7'	283.0'	5.3'	0.065 0.015	
		258'-288' 15% qtz lacing (pink below 280')							
		268'-270' 60% white qtz, Tr py	1553	7-10% py	283.0'	288.0'	5.0'	0.010 0.013	

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-7 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		AU REASSAY	AU OZ./TON	AG OZ./TON
					FROM	TO				TOTAL
31.6'	780.0'	continued							
		<u>258.0'-365.0'</u>							
		277'-285' 30% white qtz, 1-2% py Tr sph	1554	2-3% py	288.0'	293.0'	5.0'	TRACE	0.002
		287'-288' 5-10% diss. py	1555	1-2% py	293.0'	298.0'	5.0'		NIL
		@ 260.4' 1/2" gray qtz vein - 30% to core	1556	1% py	298.0'	303.0'	5.0'		0.001
		axis - sph, cpy, py	1557	1% py	303.0'	308.0'	5.0'		0.003
		288'-309' Predominantly pink - with local	1558	1-2% py	308.0'	313.0'	5.0'		NIL
		2-3% py patches							
		<u>309'-325'</u> MASSIVE QTZ VEIN ZONE	1559	2-3% py	313.0'	318.0'	5.0'		0.005
		85% qtz white to light gray - dark	1560	2% py	318.0'	323.0'	5.0'		0.016
		green shr-bx at top & bottom 1-3%	1561	1% py	323.0'	328.0'	5.0'		0.002
		py, Tr sph, galena and chlorite							
		325'-338' Strong shr-bx 10% qtz lacing	1562	1% py	328.0'	333.0'	5.0'		0.002
			1563	1% py	333.0'	338.0'	5.0'		0.002
		343.0'-365.0' Mod. shr-bx - gradually diminishing	1564	1% py	347.0'	352.0'	5.0'		0.003
		silicification. 5-10% qtz laced							
		347'-349' 20% gray qtz laced	1565	2-3% py Tr sph	356.5'	361.4'	4.9'		0.002
		351'-353' 20% gray qtz laced							
		357'-362' 20% gray qtz laced	1566	1-2% py Tr sph	361.4'	365.2'	3.8'		0.003
		364'-365' 20% gray qtz laced							
		<u>365.0'-450.0'</u> MEDIUM GRANITE (190.0'-258.0')	1567	1-2% py	369.0'	374.0'	5.0'		0.001
		See description of previous unit							
		370'-372' Pinkish altr. and qtz veining 5-10%	1568	1% py	438.0'	443.0'	5.0'		0.003
		407.5'-411' Moderate shear zone fine grained buff-	1569	1-2% py	443.0'	448.0'	5.0'		0.003
		white							
		440'-445' Local mica enrichment and light colour	1570	1% py	448.0'	453.0'	5.0'		NIL
		6" qtz vein at 444' Tr chl - shr-bx	1571	2% py	453.0'	458.0'	5.0'		0.002
		Tr py po @ 424', py @ 380'	1572	2% py	458.0'	463.0'	5.0'		0.003
			1573	3-4% py	463.0'	468.0'	5.0'		0.003
			1574	2-3% py	468.0'	473.0'	5.0'		0.001
			1575	2-3% py	473.0'	478.0'	5.0'		0.002

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-7 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	O1/TON	O1/100
					FROM	TO					TOTAL
31.6'	780.0'	continued								
	<u>450.0'-560.0'</u>	Moderately altered - QTZ LACED MEDIUM GRANITE	1575	2-3% py	473.0'	478.0'	5.0'			0.002
		Similar to above but much more quartz-lacing and much higher by content 5-10% locally weak - moderate shear bx is dominant below 465'	1576	3-4% py	478.0'	483.0'	5.0'			0.004
			1577	2-3% py	483.0'	488.0'	5.0'			TRACE
	455'-468.5'	Weak shr-bx 3-5% py qtz lacing @ 7%-20% to core axis	1578	2-3% py	488.0'	493.0'	5.0'			0.001
		463'-464' Qtz vein - white barren	1579	"	493.0'	498.0'	5.0'			0.006
	475'-476'	Qtz veining 3-5% py - in qtz veins								
	480'-481'	Qtz veining Tr py								
	485'-486'	Strong shr-bx - qtz lace - 3-5% py								
	504'-508'	Strong alteration yellow-green 15% qtz laced	1580	2-3% py	498.0'	503.0'	5.0'			0.001
	@ 511'	6" qtz vein 30-40% py Tr galena? (massive py cube)	1581	1-2% py	503.0'	508.0'	5.0'			0.001
	532'-537'	Altered - weakly shr-bx yellow-green 20% qtz lace - 4-6" veins - 2-3% py	1582	2-3% py	508.0'	510.7'	2.7'			0.002
			1583	25% py	510.7'	512.4'	1.7'			0.001
	<u>560.0'-675.0'</u>	Strongly altered PINK BLEACHED MEDIUM GRANITE	1584	3-4% py	512.4'	517.5'	5.1'			0.002
		Similar to both 450.0'-560.0' above and 258'-365'. Zone of both py and po mineralization	1585	1-2% py	517.5'	523.0'	5.5'			0.001
		Many Pink, buff-white altered bleached sections	1586	"	523.0'	526.0'	3.0'			0.001
		Light pinkish - buff colour Tr py, chl knots, 15-20% qtz laced	1587	2-3% py	531.5'	537.0'	5.5'			TRACE
	560'-595'	Local dark med. granite (unaltered)	1588	2% py	543.0'	548.0'	5.0'			TRACE
		Average 2-5% py (po) in patches	1589	3% py	548.0'	553.0'	5.0'			TRACE
			1590	3-4% py	553.0'	558.0'	5.0'			TRACE
	574'-575'	1' barren white qtz vein								NIL
	588'-593'	Strong pink colour	1591	4-5% py	558.0'	563.0'	5.0'			NIL
	<u>595'-602'</u>	20% py + po Tr cpy Tr sph sulfides in patches sometimes centred on small qtz veins py is usually central with dendritic po radiating outward. Patches usually greater than 1" in diam	1592	3-4% py	563.0'	568.0'	5.0'			NIL
			1593	1-2% py	568.0'	573.0'	5.0'			TRACE

LANGRAGES - TORONTO - 386-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-7 SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	S W I P H I D E S	FOOTAGE		S	AU REASSAY	AD OZ./TON	AG OZ./TON
					FROM	TO					TOTAL
31.6'	780.0'	continued								
		<u>560.0'-675.0'</u>								
		602'-665' Sulfides average 1-3% with occasional small pink sections, qtz lacing 5%. Pinkish altr. @ 604'-608', 619'-625', 628'-636', 645'-648', 656', shr-bx @ 651'-654'	1594	3% py	573.0'	578.0'	5.0'			0.002
			1595	2-3% py	578.0'	583.0'	5.0'			TRACE
			1596	1% py	583.0'	588.0'	5.0'			TRACE
			1597	1-2% py	588.0'	593.0'	5.0'			NIL
			1598	6-7% py	593.0'	598.0'	5.0'			0.001
		626'-633' 3-5% py/po qtz lacing 5-10%	1599	5-7% py	598.0'	603.0'	5.0'			0.002
		640'-645' 10% py po Tr cpy patches		3-4% po						
		665'-681' Transition zone - buff altered granite to regular gray finer grained granite - possible a sheared fine grained version of medium granite. 1-2% py diss. throughout	1600	2-3% Tr cpy	603.0'	608.0'	5.0'			0.002
			1601	1% py	608.0'	613.0'	5.0'			0.001
			1602	1-2% py Tr galena	613.0'	618.0'	5.0'			0.002
		<u>675'-780'</u> FINE GRAY GRANITE								
		Possibly a sheared version of medium granite, generally finer grained, 1-2% py diss. occasional dark shr-bx-zones, and white buff-pink altered zones	1603	1-2% py	618.0'	623.0'	5.0'			NIL
			1604	2-3% py	623.0'	628.0'	5.0'			0.003
		679.5' 1" X 1/8" sph veinlet	1605	1-2% py	628.0'	633.0'	5.0'			0.001
		678'-712' Weakly altered slightly pinkish - 5-10% qtz laced - 5-10% py, po - locally up to 15% Tr cpy, sph, galena @ 685'	1606	1% py	633.0'	638.0'	5.0'			NIL
			1607	3-4% py	638.0'	643.0'	5.0'			0.003
			1608	1-2% py	643.0'	648.0'	5.0'			NIL
		<u>690'-710'</u> 10-15% py, po, Tr cpy, sph, galena	1609	1% py	648.0'	653.0'	5.0'			0.001
		710'-750' 716.5' barren 4" white qtz vein chl on slips	1610	1-2% py	653.0'	658.0'	5.0'			0.002
		733'-734' Shr-bx	1611	1-2% py	658.0'	663.0'	5.0'			NIL
		736'-738' White buff pink altr. 3-5% py po chl.	1612	2-3% py	663.0'	668.0'	5.0'			0.001
			1613	3-5% py	668.0'	673.0'	5.0'			0.002

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-7 SHEET NO. 7

FOOTAGE		DESCRIPTION	SAMPLE			AU ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		REASSAY	01.10M	02.10M
					FROM	TO				TOTAL
31.6'	780.0'	continued <u>675'-780'</u>	1614	2-3% py	673.0'	678.0'	5.0'	0.007	0.016
		750'-780' Contact zone - light coloured spotty white patches with py po xtals laced	1615	2-3% py Tr	678.0'	683.0'	5.0'	0.009	0.005
		778'-780' 5% Qtz laced White bleached contact zone (pinkish) diss. py at andesite contact. Heavily chloritized py po @ 757', 766'-768', 774', 777'	1616	5-7% py sph	683.0'	688.0'	5.0'	0.013	0.010
			1617	3-5% py	688.0'	693.0'	5.0'	0.005	0.002
			1618	10-12% py	693.0'	698.0'	5.0'		0.001
780.0'	798.0'	ANDESITE (Sheared Tuff or Flow) Dark green - highly shrd, locally silicified almost black graphitic in places	1619	15-20% py	698.0'	703.0'	5.0'		0.004
		E.D.H. <u>780'-782'</u> Silicified black	1620	1-2% py Tr	708.0'	713.0'	5.0'		0.002
		<u>782'-793'</u> Coarse grained andesite - dike or flow centre - gradational contact - finer grained towards base pepper textured 1-2mm grains	1621	3-4% py	708.0'	713.0'	5.0'		0.001
			1622	2-3% py	733.0'	736.0'	3.0'		0.002
		<u>793'-798'</u> Well foliated andt tuff or shrd flow foliation at 40° to core axis - chlorite abundant. 1/8" carb ⁿ veins throughout. Tr po, @ 798.0'	1623	5-7% py	736.0'	737.0'	2.0'		0.002
			1624	1-2% py	738.0'	743.0'	5.0'		0.004
			1625	2% py	743.0'	745.2'	2.2'		0.004
			1626	1% py	745.2'	748.0'	2.8'		NIL
			1627	1% py	752.0'	756.0'	4.0'		NIL
			1628	2% py	756.0'	758.0'	2.0'		TRACE
			1629	2% py	758.0'	763.0'	5.0'		NIL
			1630	1-2% py	763.0'	768.0'	5.0'	0.001	0.005
			1631	2-3% py po	768.0'	773.0'	5.0'		NIL
		END OF HOLE							

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-7 SHEET NO. 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		S	S	AG		
					FROM	TO			TOTAL	Gr./Ton	Gr./Ton
780.0'	798.0'	continued	1632	5% po TR py cpy	773.0'	778.0	5.0'			TRACE	
			1633	Tr py	778.0'	779.7	1.7			NIL	
			1634	Tr py po	779.7'	782.0	2.3'			NIL	
			1635	PAN TAILINGS						0.004	

JH

LANGRISH - TORONTO - 366-1100

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-8 LENGTH 707.0'
 LOCATION _____
 LATITUDE 3 + 65 S DEPARTURE 2 + 85 E
 ELEVATION Surface AZIMUTH 2880 DIP -450
 STARTED June 6, 1983 FINISHED June 10, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100	440		500	420	
200	430		600	410	
300	430				
400	420				

HOLE NO. SA-83-8 SHEET NO. 1

REMARKS _____

LOGGED BY J. HINZER

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% Sph py	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	8.0'	CASING (overburden @ 6.0)								
8.0'	26.0'	ANDESITE Sheared (Tuff or Flow) Dark green to black (locally), carbonate (1/8") healed fractures and along shears. Occasional qtz vein (1/4"). Foliation - shearing at 45° to core axis, minor diss. py, po. <u>20'-21'</u> Qtz carb ⁿ vein zone (50-60% qtz) 10-15% py po. Lower contact at 60° to core axis - sharp.	1636	1% py	13.0'	18.0'	5.0'			
			1637	10-15% py Tr po	20.0	21.0'	1.0'			
			1638	TR py	26.0'	31.0'	5.0'			
26.0'	682.7'	GRANITE As in hole SA-83-7 Granite is highly variable. Three main types include a coarse sericite-biotite rich light gray to pinkish near the top, a bluish-greenish gray medium granite in the centre and a finer grained gray granite near the base. Super imposed on these variations is a strong local silicification and shearing which imparts a yellow-green tint, K-spar alteration - very pink sections and bleaching whitish-buff granite. The latter two may be related features. Mineralization is generally related to these alteration areas and appears to be of more than one species. N.B. Unlike hole #SA-83-7 - the alteration sections in the granite are more intermingled and not readily discernable as separate units. <u>26.0'-143.0'</u> COARSE GRANITE (Biotite-Sericite-Pinkish) Light gray to pink with large lcm patches of sericite-biotite flakes. Local quartz-laced-yellow green alteration and some bright buff pink zones with or without quartz veins. Average 1-2% py locally 5-10% especially near top. Traces of Sph, galena not uncommon.	1639	3-5% py	31.0'	36.0'	5.0'			
			1640	5-7% py	36.0'	41.0'	5.0'			
			1641	1-2% py	41.0'	46.0'	5.0'			
			1642	1-2% py	46.0'	51.0'	5.0'			
			1643	"	51.0'	53.7'	2.7'		0.011	
			1644	"	53.7	58.2'	4.5'		1.1L	
			1645	1-2% Trsph	58.2'	64.4'	6.2'		0.002	
			1646	----	--VOID	----	----			
			1647	Tr py	76.3'	79.1'	2.8'		0.006	
			1648	1% py Trsph	79.1'	82.1'	3.0'		NIL	
			1649	2-3% py	82.1'	84.3'	2.2'		0.005	
			1650	1-2% py	84.3'	87.0'	2.7'		0.001	
			1651	2% py	87.0'	92.0'	5.0		0.005	

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-8 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	G/TON	G/TON
					FROM	TO					TOTAL
26.0'	682.7'	continued								
		<u>26.0'-143.0'</u>								
		26.0'-28.0' Gneissic granite - foliated mafic grains, porphyritic contact zone - bluish tint 2-3% po Tr py.	1652	1% py	92.0'	97.0'	5.0'			TRACE
			1653	2%	97.0'	102.0'	5.0'			NIL
		28.0'-32.5' Sheared granite similar to above - bluish fine grained, indistinct mafic foliation 3-5% py.	1654	1% py	102.0'	107.0'	5.0'			0.002
			1655	1% py	107.0'	113.2'	6.2'			0.002
			1656	"	113.2'	117.0'	3.8'			NIL
			1657	"	117.0'	122.0'	5.0'			0.002
		32.5'-40.0' Sharp contact - partially weathered zone significant qtz-carb ⁿ vein, - strong shear-bx with yellow-green to dark altr. 30-40% qtz laced 2-3% diss. py.	1658	3% py	125.8'	128.1'	2.3'			0.001
			1659	2% py	128.1'	132.0'	3.9'			NIL
			1660	1% py	132.0'	135.0'	3.0'			0.001
			1661	"	135.0'	137.0'	2.0'			NIL
			1662	"	142.4'	147.0'	4.4'			TRACE
		40'-79' Coarse granite, local networks of 1/2" clear qtz veins laced, occasional K-spar alteration patches and white qtz veins 2-5" wlll carrying py etc. i.e. 45' - Tr py q.v. @ 60° to core axis 50' - 2% py 54' - 5% py Tr galena 30% to core axis 59' - Tr sph - gal. q.v. 30% to core axis 59'-62' - Irregular qtz veining 40% qtz								
		79'-117.5' Slightly darker greenish - yellow - green alteration.								
		79.4'-80.6' Qtz vein 40% qtz Tr py, sph, gal.								
		82'-83' Dark green - 3-5% py								
		88'-99' Pinkish 10% qtz lacing								
		93'-95' 25% qtz laced - shr-bx.								

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)

HOLE NO. SA-83-8 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	G/TON	G/TON
					FROM	TO	TOTAL				
26.0'	682.7'	continued									
		79'-117.5'									
		99'-99.6' Qtz vein - gray barren									
		99'.6-108.0' Yellow green alteration									
		103'-104' Shr-bx									
		104'-106' 50% qtz laced - 1% py Tr sph									
		106'-107' Shr-bx									
		107'-108' Qtz laced									
		108'-113.5' Qtz Vein Zone - white gray qtz 20-30° to core axis - 3% py patchy									
		113.8'-115' Yellow green altr.									
		115'-117.5' Pink altr. - qtz lacing veins @ 30° to core axis									
		126.5'-127.3' 15% qtz veining gray 1-2% py									
		135'-136' Massive qtz vein 9" - Tr galena									
		143.0'-610.0' MEDIUM GRAY-GREEN GRANITE	1663	1-2% py	147.0'	150.4'	3.4'			0.001	
		Finer grained than above - darker coloured - coarse sericite biotite flakes no longer present, every- thing is even grained. In transition from 143'- 157' occasional pink patches present, rare later. Zones of alteration both - buff-pink bleaching, with or without quartz lacing and shear breccia zones are common throughout, buff, not as well developed as in hole SA-83-7.	1664	<1% py	150.4'	152.7'	2.3'			NIL	
			1665	5% py	152.7'	157.0'	4.3'			NIL	
			1666	1% py	162.0'	167.0'	5.0'			TRACE	

LANGRIDGE - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-8 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE			REASSAY	AU GT/TON	AG GT/TON
					FROM	TO	TOTAL			
26.0'	682.7'	continued 143.0'-610.0'								
		143'-182'	1667	Trpy	167.0'	172.0'	5.0'		TRACE	
			1668	Trpy	172.0'	174.3'	2.3'		NIL	
			1669	Trpy	179.9'	181.2'	1.3'		0.001	
			1670	Trpy	182.3'	187.0'	5.3'		NIL	
		182'-192'		Tr galena						
			1671	Trpy	187.0'	192.2'	5.2'		0.001	
			1672	Trpy	207.0'	212.0'	5.0'		0.003	
		184'-187.8'		Trpy	212.0'	217.0'	5.0'		0.006	
			1674	Trpy	217.0'	222.3'	5.3'		0.003	
		184'-187.8'		Trpy	237.0'	241.6'	5.6'	0.001	0.036	
		192'-207'								
		207'-245'								
		207'-217'								
		212'-214'								
		217'-228'								
		228'-245'	1676	<1%py	241.6'	247.0'	5.4'	TRACE	0.002	
		245'-257'	1677	<1%py	247.0'	252.0'	5.0'		0.001	
			1678	<1%py	252.0'	257.0'	5.0'		0.004	
		248.3'-250.6'								

LAINPROCES - TORONTO - 346-1168

DIAMOND DRILL RECORD

 NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)

 HOLE NO. SA-83-8

 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
26.0'	682.7'	continued									
		245'-257'									
		253.7'-256.1' 90% quartz vein - gray-milky with local dark green alteration - barren									
		257'-279' Medium green-gray granite - transitional to pink alteration over lower 3 feet.	1679	<1%py	257.0'	258.0	1.0'			0.001	
			1680	<1%py	272.0'	277.0	5.0'			0.002	
		@ 262' Tr sph									
		275'-279' 3-5% py diss. - in qtz laced zone									
		279'-309' Bleached - altered granite, pink with local purple or yellow tint. Quartz lacing strong locally with up to 5% py in places.	1681	<1%py	277.0'	281.6	4.6'			0.004	
			1682	<1%py	281.6'	287.0	5.4'			0.001	
			1683	<1%py	287.0'	292.0	5.0'			0.001	
			1684	<1%py	292.0'	297.0	5.0'			0.003	
		279'-284' Pink-purple 1-2% py - 1% red altr. spots 1mm.	1685	<1%py	297.0'	301.6	5.6'			0.001	
			1686	<1%py	301.6'	307.0	5.4'			NIL	
		284'-289' 5% qtz, 1% py, Tr sph.									
		289'-295' Less altered.									
		291.4'-292.6' Clear qtz vein 2-3% py 10-20% qtz.									
		295'-298.6' 80% qtz laced (clear) Trpy									
		298.6'-309' Bleached - buff 50-60% qtz - 1% py local pink - purple (red altr. spot)									
		309'-377' Medium green-gray granite - with local shr-bx and qtz laced zones and some local qtz veins.	1687	2% py	311.4'	312.5	1.1'			0.003	
			1688	10%py	317.0'	322.0	5.0'			0.003	
			1689	<1%py	327.0'	332.0	5.0'			NIL	
			1690	<1%py	332.0'	337.0	5.0'			TRACE	
			1691	<1%py	337.0'	342.0	5.0'			0.003	

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)

HOLE NO. SA-83-B

SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		REASSAY	AU	AG
					FROM	TO		TOTAL	01/TON
26.0'	682.7'	continued							
		309'-377'	1692	<1%py	342.0'	347.7	5.7'		
		309'-320' 10-15% quartz laced greenish 1-2% py Tr sph.	1693	<1%py	361.8'	366.4	4.4'	NIL	
			1694	<1%py	366.4'	371.8	5.4'	0.006	
		314'-315' 3% py.	1695	<1%py	371.8'	377.0	5.2'	0.003	
		@321' Qtz vein 4" - 5% py. @ 336', 2"q.v. - 2% py						0.004	
		343'-348' Qtz vein zone - 30% gray qtz 2" py cube @ 354.5'							
		362'-365' 10% qtz laced 1-2% py							
		377'-469' Medium gray-green granite with very strong quartz lacing locally up to 70-80%. Avg. - 20-25% - local bleaching also, 3-5% py.	1696	5% py	377.0'	382.0	5.0'	0.002	
			1697	Tr py	392.0'	397.0	5.0'	0.002	
			1698	Tr py	397.0'	402.0	5.0'	0.002	
			1699	Tr py	402.0'	407.0	5.0'	0.002	
			1700	5% py	407.0'	412.0	5.0'	0.004	
		377'-381' 70% qtz - laced 1% py	1701	2% py	412.0'	417.0	5.0'	0.004	
		395'-396' 30% qtz - laced	1702	Tr py	417.0'	422.0	5.0'	0.004	
		403.5'-406' 30% qtz - laced 1-2% py	1703	Tr py	422.0'	427.0	5.0'	TRACE	
		415'-417' 70% qtz - laced 3-5% py	1704	Tr py	427.0'	432.0	5.0'	0.003	
		420'-425' 60-70% qtz - laced 1% py	1705	Tr py	432.0'	437.0	5.0'	0.005	
			1706	Tr py	437.0'	442.0	5.0'	0.003	
		425'-436' 10% qtz - laced 2-3% py	1707	Tr py	442.0'	447.0	5.0'	0.024	
		430'-438' 60% qtz - laced 2-3% py	1708	Tr py	447.0'	452.0	5.0'	0.002	
		438'-456' 20% qtz - laced 5% py	1709	Tr py	452.0'	457.0	5.0'	0.002	
		456'-459' 60% qtz - laced 5-7% py bleached - pink - buff.	1710	Tr py	457.0'	462.0	5.0'	0.003	
			1711	5% py	462.0'	467.0	5.0'	0.001	
		459'-469' 20-25% qtz - laced 3-5% py.							
		@ 466.8' 1 1/2" py cube.							
		469'-488' Relatively unaltered granite - dark coloured	1712	Tr py	467.0'	472.0	5.0'	TRACE	
			1713	1-2% py	487.0'	492.0	5.0'	0.010	

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-8 SHEET NO. 7

FOOTAGE		DESCRIPTION	SAMPLE				AU ASSAYS			AG	
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	REASSAY	01/100	01/100
					FROM	TO	TOTAL				
26.0'	582.7'	continued									
		488'-506'	1714	1-2% py	492.0'	497.0	5.0'	0.011	0.003		
			1715	1-2% py	497.0'	502.0	5.0'	0.010	0.013		
		488'-491'	1716	1-2% py	502.0'	507.0	5.0'		0.002		
			1717	1-2% py	507.0'	512.0	5.0'		NIL		
		493.5'-506'	1718	1-2% py	536.6'	542.3	5.7'		0.004		
			1719	Tr py	542.3'	547.0	4.7'		0.005		
		496.8'-500'									
		506'-610'	1720	1% py	547.0'	552.0	5.0'		0.002		
			1721	1-2% py	552.0'	557.0	5.0'		0.001		
			1722	Tr py	591.5'	596.8	5.3'		TRACE		
			1723	2% py	596.8'	602.0	5.2'		0.005		
			1724	Tr py	607.0'	612.0	5.0'		TRACE		
		529'-546'									
		536.5'-537.5'									
		541'-543'									
		546'-548.5'									
		591'-593'									
		595'-596.6'									
		597'-610.0'									

LANGRISHES - TORONTO - 368-1108

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-8 SHEET NO. 8

FOOTAGE		DESCRIPTION	SAMPLE				AU ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		REASSAY	OZ./TON	OZ./TON
					FROM	TO				TOTAL
26.0'	682.7'	continued							
		610.0'-682.7' GRAY GRANITE	1725	Tr py	612.0'	617.0'	5.0'	0.022	0.012
		Slightly yellow-greenish-abundant feldspars - pale cream coloured with dominant greenish mafic minerals rare, small sericite flakes are abundant. Chlorite flecks are present locally - moderate mild shear-brecciation and local heavy py + po mineralization	1726	Tr py	617.0'	622.0'	5.0'	0.015	0.005
		610.5'-612.2' Qtz-vein gray @ 10-20% to core axis py, chl.	1727	7-10% py/po	622.0'	627.0'	5.0'	0.600	0.520
		<u>623'-633'</u> 10% py - po	1728	3-5% py po	627.0'	632.0'	5.0'	0.009	0.002
		623'-624.3' 40% sulfides (25 py/15 po po dendritic adjacent to central py cubes.	1729	3-5% py po	632.0'	637.0'	5.0'	0.460	0.010
		629.5'-632.5' 5-7% py, po	1730	1-2% py po	637.0'	642.0'	5.0'	0.001	0.005
		623'-668' Only local alteration - buff-pink zones 1% py, po, chl.	1731	1% py chl	642.0'	647.0'	5.0'		0.001
		648.5'-651.5' Shr-bx shrd @ 70% to c-axis, 1-2% py local qtz, fels veins.	1732	3-5% py po chl	647.0'	652.0'	5.0'		TRACE
		656'-658.4' Bleached - pinkish - fracture - bx'd.	1733	1-2% py	652.0'	657.0'	5.0'		0.002
		657.2'-657.25' Fault zone 2-3mm ang. qtz grains in chl. much matrix.	1734	3-5% py Tr	657.0'	662.0'	5.0'		NIL
		660'-662' Pink - buff white bleach zone gradational at top sharp at base.	1735	1-2% po	662.0'	667.0'	5.0'		0.001
		668'-682.7' Contact Zone Granite-Andesite	1736	7-10% py	667.0'	672.0'	5.0'		0.021
			1737	2-3% pychl	672.0'	677.0'	5.0'		0.003
			1738	Tr py	677.0'	682.0'	5.0'		0.002

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-8 SHEET NO. 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			S	S	G1/TON	G2/TON
					FROM	TO	TOTAL				
26.0'	682.7'	continued									
		658'-682.7'									
		668'-673' Gray granite, 60% buff-white bleached - fracture bx'd, faintly pink - 5-10% py.									
		673'-675' Pink-buff fracture bx'd.									
		675'-679.9' Pink granite									
		679.7'-679.9' Blue gray - chlorite/fault/or andt. Zenolith.									
		679.9'-682.7' Fracture bx'd - pink granite.									
682.7'	707.0'	ANDESITE									
		Highly sheared and altered, dark green tuff or flow material the lower 5.0' strongly resemble the top of SA-83-5. The top 10-15 ft may be gneissic or contain intrusive material.									
		682.7-697' Contact Zone	1739	Tr py	682.0'	687.0'	5.0'				NIL
		682.7'-683.7' Siliceous - dike like sharp upper and lower contacts at 70° to core axis - bluish gray with dark (black) phenocrysts or mafic mineral foliation at 60° to core axis. Locally 3-5% py at centre qtz vein and at contacts.	1740	Tr py	687.0'	692.0'	5.0'				NIL
			1741	1% py	692.0'	697.0'	5.0'				0.008
			1742	TAIL COMPOSITE							0.003
		683.7'-686.4' Same as 679.9'-682.7' fracture bx'd buff - pink granite.									
		686.4'-687.5' Same as 682.7-683.7'									
		687.5'-695.3' Gradational from siliceous dike like finer grained almost andesitic in places, containing some qtz-carb ⁿ veins.									

LANDROSE - TORONTO - 368-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)

HOLE NO. SA-83-B

SHEET NO. 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	GT/TON	GT/TON
					FROM	TO	TOTAL				
682.7'	707.0'	continued 682.7'-697'									
		695.3'-696.5' Qtz vein - granitic? chlorite flecks									
		696.5'-697' Siliceous dike material.									
		697'-707' Shrd Andesite tuff or flow.									
		E.O.H.									

JK

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-9 LENGTH 577.0'
 LOCATION _____
 LATITUDE 4 + 63 S DEPARTURE 2 + 85 E
 ELEVATION Surface AZIMUTH 288° DIP -45°
 STARTED June 12, 1983 FINISHED June 15, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100	43°		500	42°	
200	42°				
300	42°				
400	42°				

HOLE NO. SA-83-9 SHEET NO. 1

REMARKS _____

LOGGED BY J. HINZER

FOOTAGE		DESCRIPTION	SAMPLE				AU ASSAYS			
FROM	TO		NO.	SLIP PH. TOES	FOOTAGE		%	REASSAY	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	5.0'	CASING (4.0' overburden)								
5.0'	121.0'	ANDESITE (Sheared Pillowed Flow) Dark green - highly silicified, very hard - local chloritic sections. Occasional 1-2" quartz veins and patches of carbonate veinlets and healing hairline fracture. Shearing at 60° to core axis, 1-2% py, po on slips and veins Tr cpy. Traces of garnets @ 42.0'-43.0'. 59'-71.0' Mafic intrusive fine grained green-black with 1mm white fels? flecks, aphanitic upper and lower contacts with several 1-2" qtz-fels veins with trace 1% py, po, Tr cpy, possible massive flow. 71.0'-99.0' Sheared flow, 1/4" qtz veins at 60° to core axis Tr py, cpy. 99.0'-121.0' Highly altered sheared and granitized zone, altered flow, 1-3% py strongly chloritized. 116.8'-117.5' Quartz vein zone 1% py Tr po. 118.8'-119.4' White quartz ve'n 5% py sharp lower contact at 60° to core axis.	1743	Tr py po	39.5'	44.8'	5.3'		0.002	
			1744	1-2% py	99.0'	104.7'	5.7'		NIL	
			1745	1-2% py	111.8'	116.3'	4.5'		NIL	
			1746	3-5% py	116.3'	121.0'	4.7'	0.220	0.049	
121.0'	577.0'	GRANITE Medium to coarse grained - locally sheared dark green to medium green-gray - locally heavily altered, massive quartz vein zone. Granite not as coarse as in previous holes, local quartz veining, alteration, and shear brecciation. Local buff coloured section.								

LANGRISHES - TORONTO - 384-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUGET)
 HOLE NO. SA-83-9 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE				AU ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	REASSAY	AU		AG
					FROM	TO			TOTAL	GT/TON		GT/TON
121.0'	577.0'	continued									
		121.0'-155.0' QUARTZ VEIN ZONE	1747	1-2% py	121.0'	124.4'	3.4'	0.004	0.010		
		121.0'-132.5' 75-80% quartz, massive quartz veining, 1-2% py Tr. sph, galena.	1748	3% py	124.4'	127.0'	2.6'	0.010	0.007		
		121'-124.4' White quartz 2-3% py, Tr galena.	1749	2% py Trsph gal.	127.0'	132.0'	5.0'	0.006	0.010		
		124.4'-125.4' Buff to pink altered massive granite.	1750	1% py Sph/gal.	132.0'	137.0'	5.0'		0.002		
		125.4'-129.8' Heavily quartz laced 70% altered buff to pink, 1-2% py, 1% galena, Tr sph.	1751	2% py Trsph gal.	137.0'	142.0'	5.0'		0.007		
		129.8'-132.5' Massive white quartz, Tr py-sph-galena.	1752	Trpy	142.0'	147.0'	5.0'		TRACE		
		132.5'-138.0' Altered granite, 70% quartz laced 1% galena, Tr sph py	1753	Trpy gal.	147.0'	152.0'	5.0'	NIL	0.002		
		138.0'-155.0' 30% qtz laced at 40° to core axis Tr py sph, gal.	1754	2% py Trsph/gal.	152.0'	157.0'	5.0'	0.110	0.130		
		153'-155' Quartz vein zone 60% (154.8'-155.0' - 5% galena)	1755	2-3% py	157.0'	162.0'	5.0'		TRACE		
		155.0'-197.8' Granite locally weakly altered, 10-15% qtz laced throughout, buff to yellow-green, Tr py, galena, sph	1756	1-2% py	162.0'	167.0'	5.0'		0.002		
		194.8'-197.8' Bluish gray qtz vein zone, 1-2cm py patches.	1757	2-3% py Tr gal.	167.0'	172.0'	5.0'		0.001		
		197.8'-217.3' Granite as above, 3-5% qtz laced some yellow-green alteration. Tr. py.	1758	2-3% py	172.0'	177.0'	5.0'		TRACE		
		217.3'-224.9' QUARTZ PORPHYRY (DIKE?)	1759	1-2% py	177.0'	182.0'	5.0'		0.002		
		Gray-green very highly sheared matrix with large up to 1cm large sub-rounded to angular qtz, X-tals - seemingly super imposed upon a felspar porphyritic granite?? - possibly a sheared - meta-cryst zone??	1760	1% py	182.0'	187.0'	5.0'		0.001		
			1761	1-2% py Tr sph	187.0'	192.0'	5.0'		0.006		
			1762	2-3% py Tr sph	192.0'	197.7'	5.7'		0.004		
			1763	Tr-1% py	197.7'	200.0'	2.3'		NIL		

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-9 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	AU	AG
				FROM	TO	TOTAL		OZ./TON	OZ./TON
121.0'	577.0'	continued							
		217.3'-224.9'							
		217.3'-220.8' Massive quartz vein, Tr. carb ⁿ at 40° to core axis.	1764	2-3% py	213.0'	217.0'	4.0'		NIL
		220.9'-224.9' 30-40% quartz - white, barren.	1765	-	217.0'	222.0'	5.0'		NIL
		224.9'-246.7' Medium - buff - pink altered granite, irregular at 10-20° to core axis, 5% quartz lacing 3-5% pyrite.	1766	Tr py	222.0'	225.2'	3.2'		NIL
		246.7'-251.2' QUARTZ PORPHYRY (DIKE - META? ZONE) (similar to 217.3'-224.9') Contacts gradational.	1767	2-3% py	225.2'	230.0'	4.8'		0.002
		250.9'-251.2' White - gray quartz vein - barren at 20° to core axis.	1768	Tr py	242.0'	247.0'	5.0'		0.003
		251.2'-316.0' Medium - coarse grained granite 5-10% quartz laced, buff - greenish colour.	1769	1% py	247.0'	252.0'	5.0'		0.009
		256.0'-259.3' Massive - white gray, qtz vein, 3-5% py, Tr. sph/gal.	1770	Tr py	252.0'	257.0'	5.0'		TRACE
		@ 264.0' 3-5% py cubes.	1771	1% py	257.0'	262.0'	5.0'		0.001
		274.0'-281.0' 20-30% qtz lacing - pink - buff. 3-5% py minor shr-bx.	1772	1-2% py	262.0'	267.0'	5.0'		0.001
		281.0'-293.0' Buff - slightly yellow(green) highly silicified up to 60% qtz laced - local	1773	Tr py	274.8'	277.0'	2.2'		0.003
		293.0'-316.0' Pink spots, 2-3% py.	1774	3-5% py	277.0'	282.0'	5.0'	0.024	0.068
		Shear breccia at 301'-307', 309'-310', 10% qtz laced 2-3% py.	1775	1-2% py	282.0'	287.0'	5.0'		0.002
		316.0'-330.3' QUARTZ PORPHYRY Sharp upper and lower contacts at 30°/60° to core axis. Similar to quartz porphyries encountered in previous holes. Large up to 1cm qtz phenocrysts - in a highly sheared gray matrix.	1776	Tr py	287.0'	292.0'	5.0'		0.001
		329.3'-330.3' 50% quartz Tr. py.	1777	1-2% py	292.0'	297.0'	5.0'		TRACE
			1778	1% py	297.0'	302.0'	5.0'		0.003
			1779	Tr py	302.0'	307.0'	5.0'		0.001
			1780	1% py	307.0'	312.0'	5.0'		0.002
			1781	Tr py	312.0'	317.0'	5.0'		0.013
			1782	Tr py	317.0'	322.0'	5.0'		NIL
			1783	Tr py	327.0'	332.0'	5.0'		TRACE
			1784	1% py	332.0'	337.0'	5.0'		0.003
			1785	3-5% py	351.7'	352.9'	1.2'		TRACE
			1786	1-2% py	358.7'	362.0'	3.3'		0.002
			1787	1% py	362.0'	367.0'	5.0'		0.002
			1788	2% py	367.0'	372.0'	5.0'		0.002
			1789	1-2% py	372.0'	377.0'	5.0'		NIL
			1790	Tr py	377.0'	382.0'	5.0'		0.005

DIAMOND DRILL RECORD

 NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUDET)

 HOLE NO. SA-83-9

 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE				AU ASSAYS			AG
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	REASSAY	01/100	
					FROM	TO					TOTAL
121.0'	577.0'	continued								
		330.3'-438.0' Medium granite - gray - buff - spotty locally greenish. Shear-breccia zones common. Little or no quartz veining or quartz lacing. Local 2-3% py. Shr-bx - @332', 338'-339'.								
		@ 352.0' 4-6" qtz vein 40° to core axis 3-5% py cubes 1-2% chlorite.	1791	2-3% py	389.2'	395.0'	5.8'		NIL	
		360'-390' 10-15% qtz laced @ 5-20° to core axis, local shr-bx Tr. sph, 1-2% py.	1792	3-5% py	395.0'	400.0'	5.0'		TRACE	
		368'-370' 15-20% qtz laced - Shr-bx								
		370'-372' 60% qtz vein - laced. 3-5% py cubes								
		385'-387' 3% py.								
		390'-438.8' 10% qtz - laced - light to dark greenish gray with local shr-bx, buff - pink altr. or bleaching	1793	2% py	400.0'	405.0'	5.0'		0.001	
			1794	Tr py	405.0'	409.7'	4.7'		TRACE	
			1795	2-3% py	413.0'	418.5'	5.5'		0.019	
		390'-395.5' 20% qtz laced 2-3% py cubes.	1796	3% py	429.5'	434.0'	4.5'	0.012	0.015	
		395.5'-398' 10% qtz laced, qtz veins buff coloured coarse granular - 2-3% py.								
		398'-405' 20% qtz laced 2-3% py cubes.								
		405.5'-407.2' (similar to 395.5'-398.0') 1% py.								
		White qtz veins @ 409.5', 411', 417'-418.5' Tr - 10% py.								
		418.5'-438.8' Weakly shr-bx'd little or no qtz veining shr-bx @ 429', 430', 435'-439', 2-3% py + chl.	1797	Tr py	434.0'	438.8'	4.8'	0.001	TRACE	

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-9 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	AG	
					FROM	TO			TOTAL	OZ. TON	OZ. TON
121.0'	577.0'	continued								
	438.8'-455'	Highly Sheared Zone. Dark gray-green fine grained silicified alteration sharp boundaries @ 70°-90° to core axis with 1 foot white - buff halo. (Shr-bx) 1% py.	1798	1% py	438.8'	442.8'	4.0'			0.001
	438.8'-441.0'	} as above	1799	Tr py	442.8'	447.0'	4.2'			NIL
	442.7'-445.3'		1800	2-3% py	447.0'	452.0'	5.0'			0.008
	449'-455'	As above 5-10% py, Tr. galena over 1-3" qtz veins - gray-white, ½" chlorite wisps.	1801	2-3% py	452.0'	457.0'	5.0'			0.004
	455'-484'	Altr'd medium granite	1802	1% py	482.0'	483.0'	1.5'			0.003
	476'-484'	Shr-bx'd, Tr py.	1803	2% py	483.5'	488.3'	4.8'			0.003
	484'-488'	Strong Shear Bx Zone Shrg @ 45-50° to core axis, 20% qtz laced.	1804	Tr py	488.3'	492.0'	4.3'			0.006
	485.7'-488.7'	50% clear qtz, 3-5% py.								
	493'-506.0'	Moderately altered medium grained granite locally buffed sheared zones and major qtz veining with minor pyrite.	1805	2% py	492.0'	497.0'	5.0'			0.004
	493'-495'	5% qtz laced, 3-5% py.	1806	1% py	497.0'	502.0'	5.0'			0.001
	495'-499'	70% qtz - bleached - yellow - buff								
	496.5-498.5'	Q.v. Tr. py, felspar patches.								
	495'-496.5'	Yellow-pink, 3-5% py. chl. possible shear or fault zone.								
	500.5'-506.0'	Altered shear-bx'd zone.								
	501'-502'	Shr-bx (as 495'-499')								

DIAMOND DRILL RECORD

NAME OF PROPERTY ST. ANTHONY GOLD MINE (AUBET)
 HOLE NO. SA-83-9 SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLE				AU ASSAYS			AG
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	REASSAY	OZ./TON	OZ./TON
					FROM	TO					TOTAL
121.0'	577.0'	continued 493'-506.0'								
		504'-504.6' Clear-gray qtz vein.								
		506'-577								
		Relatively unaltered medium granite. Local buff - gray and or shear breccia zones. Start of po - in rock up to 1% - locally 2-3% py po. Local dendritic py-po development.	1807	3% py	502.0'	507.0'	5.0'	0.002	0.006	0.022
			1808	2% py	527.0'	532.0'	5.0'			
			1809	1-2% py	532.0'	537.0'	5.0'				0.002
		534'-535' 1% py po.	1810	1-2% py	537.0'	542.0'	5.0'		0.002	
		551'-553' Buff - gray	1811	1-2% py	552.0'	557.0'	5.0'		TRACE	
		555.5'-558.5' Very coarse grained, Tr pink altr.	1812	2% py	557.0'	562.0'	5.0'		0.003	
		559.5'-562' 1/2-1" qtz vein gray 20% to c-axis Tr. py.	1813	2% py	562.0'	567.0'	5.0'		NIL	
			1814	1% py	567.0'	572.0'	5.0'		0.002	
		563'-577' Local zone of fracture bx over 1-2' sections.	1815	2% py	672.0'	577.0'	5.0'		0.006	
			1816	Tr po	COMPOSITE TAIL.				0.006	
		567'-577' 3-5% diss. dendritic py/po.								
		575'-576.5' Qtz vein zone, 60% clear gray qtz Tr. chl, py/po. Latter zone possibly reflecting proximity to andt. contact.								

E.O.H.

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold (Aubet)
 HOLE NO. SA-83-10 LENGTH 1008.0'
 LOCATION _____
 LATITUDE 1 + 66 S DEPARTURE 3 + 03 W
 ELEVATION Surface AZIMUTH 102° DIP -67°
 STARTED June 18/83 FINISHED June 23/83

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
100	-65°		600	63°	
200	-64°		700	62°	
300	-64°		800	62°	
400	-63°		900	61°	
500	-63°				

HOLE NO. SA-83-10 SHEET NO. 1

REMARKS _____

LOGGED BY J. HINZER

FOOTAGE		DESCRIPTION	SAMPLE			AU ASSAYS			
FROM	TO		NO.	FOOTAGE	%	REASSAY	OZ/TON	OZ/TON	
			SULPHIDES	FROM	TO	TOTAL			AG
0	18.0'	CASING (17.0' overburden)							
18.0'	26.4'	GRANITE Mottled gray - medium grained, felspar grains 2-3mm white common groundmass, gray patches of mafic minerals. Local bleached altered buff-yellow-green. ¼" clear-gray qtz veins common, some shr-bx. Local 1-2" reddish dark rusty brown alteration due to cyanite tailings. Traces of py on qtz veins.							
	23.6'-26.4'	green gray - fine grained INTRUSIVE sharp upper/lower contacts at 80° to core axis very fine grained - possibly sheared. Felsic composition 1-2% .1mm py specks.	1817	1-2% py	26.0'	29.0'	3.0'		0.002
26.4'	37.4'	ANDESITE sneared dark green, strong at 0-10° to core axis carbonate veins and splashes common, locally cherty and silicified up to 1-2% py. Lower contact at 30° to core axis, local gneissic texture. ? Possible fault zone?	1818	"	29.0'	32.0'	3.0'		NIL
37.4'	190.4'	GRANITE as (18.0'-26.4' above) - many strongly bleached, altered zones, some local strong quartz veining, generally very little qtz.	1819	Tr py	42.2	46.9	4.7	0.014	0.016
	60-63.4	bleached, slightly quartz laced. ½" quartz veins at 10° and 70° to core axis Tv-1% py.	1820	1% py	59.5'	63.4'	3.9'		0.001
	78-84.6	moderately Shr-bx - fine grained, 4-6" quartz vein @ 84.0' - 20-30% qtz laced, Tv py.	1821	Tr py	81.0'	85.4'	4.0'		NIL

LANGHEKES - FORDON - 066 1168

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold Mine (Aubet)

HOLE NO. 58-83-10

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE FROM TO TOTAL	%	S	01/TON	07/TON
37.4'	190.4'	continued							
		93.5' - local Shr-bx and bleaching centred on 1" gray-white quartz	1822	3% py	93.0' 97.4' 4.0'			0.004	
		94.5'-102 - bleached altered zone, yellow-green. 94.5-97.0 strong Shr-bx, 1" py vein @ 70° to core axis in bleached zone @ 95.0'.	1823	Tr py	97.0' 101.7' 4.7'			0.003	
		99-101 strong Shr-bx and bleaching qtz laced 10-15%, Tr py.							
		118.8'-121.0' - Moderately shear-bx and altered large 3-4cm clear qtz patches, py paint.	1824	Tr py	119.0' 122.0' 3.0'			0.001	
			1825	2-3% py	127.0' 131.0' 4.0'			0.002	
		128.0'-151.0' - Major alteration shear zone. Lt gray core (resembling gray granite in previous holes) faint yellow green alteration - moderate to heavy shear bx - throughout. Local py patches up 2-3% py some qtz veins.	1826	Tr py	131.0' 136.0' 5.0'			0.001	
		130-135 strongly sheared							
		141-141.8 mafic dike, 1-2% diss py.							
		sulfides 128-129 3% py, 139-143, 2-3% py							
		151.0'-169.0' weak to moderate shear-breccia slightly altered.	1829	1% py	168.0' 173.8' 5.8'			0.001	
		169.0'-177.0' moderate to strong shear-breccia 20% qtz lace - 6" @ 172.8' locally bleached 1-2% py.	1830	Tr py	173.8' 178.0' 4.2'			0.006	
			1831	1% py	178.0' 183.0' 5.0'			0.002	
		177.0'-190.4' weak to moderate shear breccia contact at 30° to core axis - irregular	1832	1% py	183.0' 188.0' 5.0'			TRACE	
			1833	Tr py	188.0' 192.0' 4.0'			NIL	

LANCOPRES - TORONTO - MA. 116P

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold Mine (Aubet)
 HOLE NO. SA-83-10 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE				AU ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		REASSAY	GT/TON	AG
				FROM	TO	TOTAL			
190.4'	302.8'	continued							
		MASSIVE ANDESITE (Flow)							
		Dark gray green, very fine grained homogeneous, minor carb ⁿ -veins up to 1/8" throughout, Tr-1% py, occasional quartz veins. Some sections appear as flows with periodic 1-2" zones similar to selvages. Other sections are very massive and homogeneous.	1834	Tr py	206.0'	212.0'	6.0'		NIL
		190.4-205 Massive andt	1835	Tr py	230.4	235.7	5.3'		0.003
		205 -220 Pillowed flow							
		220 -235.2 Massive andt, bleached Tr py	1836	Tr py	235.7'	241.0'	5.3'		NIL
		235.2'-245.0' QUARTZ PORPHYRY							
		as in previous holes - light gray matrix fine grained with large dark gray up to 1cm quartz phenocrysts angular to sub angular. Tr py/po. 2" white qtz vein at centre, 6" white qtz vein at base. Upper/lower contacts sharp at 80° to core axis.							
		245-267 - contorted shrd pillowed andesite local amphibolite patches	1837	Tr py	244.4'	250.0'	5.6'		NIL
		267-302.8 - contact zone - intermixed altered, locally amphibolitized ondesite and diorite.	1838	Tr py	278.8'	283.0'	5.0'		NIL
		267-283 - shrd, amphibolitized 2-3% py	1839	Tr py	283.0'	288.0'	5.0'	0.005	0.013
		283-285 - diorite							
		285.5-288.5 - silicified, shrd, chloritized carb ⁿ , zone 2-3% py							
		288.5-291 (as 267-283)	1840	Tr py	297.0'	302.0'	5.0'		NIL
		291-302.8 highly shrd - local 1-2cm azure blue qtz patches @ 298.0' shrg at 5-10° to core axis	1841	Tr py	302.0'	305.0'	3.0'		NIL

DIAMOND DRILL RECORD

 NAME OF PROPERTY St. Anthony Gold Mine (Aubet)

 HOLE NO. SA-83-10

 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	AG
					FROM	TO					TOTAL
		continued								
302.8'	311.7'	Diorite Spotted dark mafic grains on white felspar ground mass 1-3m mafic grains, local 1-4" blue gray shear zones - silicified	1842	Tr py	311.8'	316.2	4.4'			NIL
311.7'	321.5	Amphibolitized Andesite (as 267-283 above)								
321.5'	335.6'	Diorite (as 302.8'-311.7' above) locally more abundantly shrd.	1843	Tr py	333.0'	336.7	3.7'			0.001
335.6'	361.0'	Amphibolitized Andesite (similar to 311.7'-321.5') - highly sheared section, several 6"-1 foot diorite and or amphibolite zones. Strong shearing at 10-20° to core axis. Locally 2-3% po Tr cpy.	1844	Tr py	346.5'	352.5	6.0'			0.005
361.0'	372.5'	Diorite (as 302.8'-311.7' above) - strongly sheared at lower contact	1845	Tr py	372.0'	376.0	4.0'			NIL
372.5'	440.0'	Amphibolitized Andesite (similar to 311.7'-321.5') - very highly sheared. Significant quartz-carb veining @ 732.0'-375.0', gray quartz vein at 376.0'-377.0' with Tr py, po, cpy @ 20° to core axis 4-6" quartz veins Tr py, chlorite fleks at 20-30° to core axis at 403.5'-405.0', 408.0'-409.0' at 409.5' - azure blue qtz - (alteration) fragments Tr py/cpy 424-432 - massive andesite 432-440 - sheared quartz laced brecciated 10-20% - contact zone.	1846	Tr py po cpy	376.0'	377.6	1.6'			NIL
			1847	Tr py	377.6'	384.0	6.4'			0.009
			1848	Tr py	403.0'	410.0	7.0'			NIL
			1849	Tr py	433.0'	438.0	5.0'			NIL
440.0'	553.0'	Diorite Massive (as above 302.8'-311.7' etc.) many local sheared sections, bluish gray - local qtz veining and Tr-1% py. @ 459 - 1 foot quartz vein 462-465.5' - dark blue gray shear zone 3" white q.v. Tr py, chlorite 517-548 - dark gray shear zone Tr-1% py 544-545 - white-buff qtz vein - barren lower contact at 30° to core axis sharp	1850	Tr py	438.0'	443.0	5.0'			NIL
			1851	Tr py	443.0'	449.6	6.6'			NIL
			1852	Tr py	461.0'	466.6	5.6'			TRACE
			1853	Tr py	518.0'	523.0	5.0'			NIL
			1854	Tr py	523.0'	528.0	5.0'			NIL
			1855	Tr py	528.0'	533.0	5.0'			0.001
			1856	Tr py	533.0'	538.0	5.0'			NIL
			1857	Tr py	544.0'	546.5	2.5'			NIL

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold Mine (Aubet)

HOLE NO. SA-83-10

SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ./TON	OZ. TON
					FROM	TO					TOTAL
553.0'	576.5'	continued Andesite Fine grained massive, homogeneous possible flow. 1-2% diss. py. cpy. @ 571.0' 6" variolitic or cherty - amphibolitic at base.	1858	1% py po	568.0'	573.0'	5.0'			NIL
576.5'	669.2'	Diorite Massive (as above 440.0'-553.0'). Many sheared sections, 1-2% py diss. throughout.	1859	1% py	573.0'	578.0'	5.0'			NIL
		582-584 bluish shear zone 1-2% py	1860	Tr py	624.1'	626.6'	2.5'			NIL
		624-626 bluish shear zone Tr py	1861	Tr py	636.7'	642.7'	6.0'			NIL
		occasional 1"-4" bluish shear zones with 1"-1" clear-gray qtz veins at 10"-30" and 600-700 to core axis. Throughout the entire section.	1862	Tr py	642.7'	648.0'	5.3'			NIL
		630-669.2 major bluish shear zone - resembles a sheared rhyolite tuff locally, shearing almost parallel to core axis - carbonate often healing fractures on brecciated zones at 637-645, 659-663 (best quartz veins).	1863	Tr py	654.6'	660.6'	6.0'			NIL
669.2'	696.8'	Amphibolitized Andesite Highly sheared, strongly chloritized and many amphibole zones. Strong azure blue altered quartz patches with 2-3% py locally	1864	Tr py	660.6'	666.2'	5.6'			NIL
			1865	2-3% py	671.0'	677.4'	6.4'			NIL
			1866	2-3% py	684.0'	690.5'	6.5'			0.001
696.8'	731.2'	Diorite Similar to (576.5-669.2'). Mostly strongly sheared. Locally 2-3% py.	1867	2-3% py	701.6'	706.6'	5.0'			NIL
		700-731.2 bluish sheared zone, chl, ser, Tr py @ 705 - shrg. at 100 to core axis - bluish faint felspar in qtz veins.	1868	1% py	713.0'	718.0'	5.0'			NIL
		728-731.2 gradational contact. Shrd. buff-gray coloured At granite contact (irregular) 4" blue quartz 2-3% py.	1869	1-2% py po	730.0'	733.0'	3.0'			0.003

LANGRANGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold Mine (Aubet)
 HOLE NO. SA-83-10 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			AU ASSAYS		
FROM	TO		NO.	FOOTAGE		%	ASSAY	0.100
				FROM	TO				TOTAL
731.2'		continued Granite Gray medium grained, mottled (due to mafic grain patches) as in top of hole. Many local buff-sections altered and weakly to moderately shear brecciated. Stronger qtz-laced and shear brecciated sections and local po, py massive zones.						
		731.2'-783.0' medium gray - buff local alteration and quartz veinino. Some massive and diss. po and py.	1870	1-2% py po	733.0'	738.0'	5.0'	0.012
			1871	2% py po	738.0'	743.0'	5.0'	0.002
			1872	1-2% py po	743.0'	748.0'	5.0'	0.014
			1873	Tr py	748.0'	753.0'	5.0'	TRACE
			1874	1% py po	753.0'	758.3'	5.3'	TRACE
		734-742 - 5-10% quartz laced locally shear-breccia 1-2% py Tr po.	1875	3% py po	773.0'	776.0'	3.0'	0.002 0.002
		742-751.5' - darker more regular less altered granite rare quartz veins.	1876	50% po 5% py	776.0'	778.0'	2.0'	0.002 0.011
		751.5'-765' - buff coloured - yellow green alteration occasional darker shr-bx, 5% qtz laces - 2-3% po py.	1877	5-10% py po	778.0'	783.0'	5.0'	0.016 0.009
			1878	3% po py	783.0'	788.0'	5.0'	TRACE 0.002
		765-783 - shear-brecciated and altered - mass. qtz vein, po.	1879	1-2% py	788.0'	793.0'	5.0'	0.003
		<u>776-777 - white qtz vein 75% sulfides massive po - 95% py 5%.</u>	1880	2% py	796.3'	801.0'	5.3'	0.002
			1881	2% py	801.0'	805.4'	4.4'	0.002
		<u>780.8 - 2" white qtz vein 10% pyrite</u>	1882	5% po py	810.5'	816.0'	5.5'	0.001
	783-860	heavily altered - strongly - Shr-bx locally with 10-30% quartz lacing 2-3% po. py.	1883	1-2% py	816.0'	821.0'	5.0'	0.005
		783-800 - 10-15% qtz laced white-gray qtz veins (2-6") local shr-bx 3% py po	1884	2% py po	821.0'	824.5'	3.5'	0.004
			1885	2% py po	824.5'	831.0'	6.5'	0.003
		783-788 - 3-5% py po.	1886	3% py po	831.0'	836.0'	5.0'	0.001
		800-804 - massive - white-clear quartz vein ll to core axis - 75% quartz - 1% py at margins.	1887	2% py po	836.0'	841.0'	5.0'	0.002
			1888	2% py po	841.0'	846.0'	5.0'	0.001
			1889	1-2% py	846.0'	851.0'	5.0'	0.001

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold Mine (Aubet)
 HOLE NO. SA-83-10 SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	AU	AG
					FROM	TO	TOTAL					BT/TON	GT/TON
		continued									
		804-816 - 10% quartz laced - altered, shear-bx.	1890	1-2% py	851.0'	856.0'	5.0'				0.002
		811-816 - 60% qtz laced - shr-bx 1% py.	1891	2% py	856.0'	861.0'	5.0'				0.001
		818-819 - 30% qtz lace - shr-bx 1-2% py	1892	3-5% py	861.0'	865.0'	4.0'				0.002
		820-824.5 - 5% qtz-lace - shr-bx 1-2% py	1893	4% py	876.0'	880.0'	4.0'				0.002
		824.5' - 3% py on 2" qtz vein.	1894	5% po	885.5'	891.9'	6.4'				TRACE
		828-860 - 20-25% quartz laced - 4-6" quartz vein sections associated with shr-bx zones local patches of 10-15% po (py) and chlorite - in quartz veins.	1895	2% py	891.9'	898.5'	6.6'				TRACE
		831-836 - shear-breccia zone	1896	Tr po	907.6'	913.0'	5.4'				0.004
		832.8-833.5 massive quartz vein zone barren	1897	2% py	919.0'	925.0'	6.0'				TRACE
		833.5-836 - 15% quartz laced (10% po., chl.)	1898	2-3% py po	925.0'	930.0'	5.0'				0.001
		838-840 - shr-bx	1899	20% po	930.0'	933.0'	3.0'				TRACE
		840-841 - shr-bx	1900	2% py	933.0'	938.5'	5.5'				TRACE
		843.5-845 - shr-bx 2-4" qtz veins 2-3% py po									
		849-851 - shr-bx 2" qtz veins 2% py po									
	860-886	5-10% quartz laced - less sheared and brecciated than above - more granitic unaltered.									
		862-864 - 10% qtz lace 1% py									
		867.5-868.8 - shr-bx 1% py, 2" qtz vein									
		871-872 - 10% qtz lace. Tr-1% py, or 1/2 qtz veins.									
		876.5 - 2" qtz vein 25% po, 3% py.									

LANGRANGES - TORONTO - 308 1168

DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold Mine (Aubet)
 HOLE NO. SA-83-10 SHEET NO. 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	G/TON	D/TON
					FROM	TO	TOTAL				
		continued									
		877-879.5 - buff coloured.									
	886-899.5	moderately sheared and altered.									
		887-888 - 80% quartz laced gray qtz 2% py + po.									
		<u>890-891</u> - shr-bx 6" qtz vein 10% Trpy/cpy									
		892.7-894.5 - shr-bx 10% qtz, 2% py po.									
		897-898.2 - shr-bx 4" qtz vein 1% py po.									
	899.5-923.0	dark granite, 70% buff altered, local shear breccia.									
		905-906 - shr-bx 5% qtz Trpy									
		908-908.8 - shr-bx									
		911-913 - shr-bx 1% py									
		918-923 - several 1" qtz veins @ 70° to core axis.									
	923.0-943.0	Dominant buff gray-alteration, 15% quartz laced, local shear breccia									
		923-925 - 15% qtz laced - bleached, barren 4" q.v.									
		926.5-927.5 - shr-bx, bleached 2" q.v. 2-3% po, py.									
		929-931.4 - shr-bx strong 6" qtz vein, chl, 30% po, 3% py shr-bx Trpy @ 934-935, 936-937.									
		937-943 - weakly altered, 5% qtz laced buff gray									

LAVINOPSIS - TORONTO - 366-1186

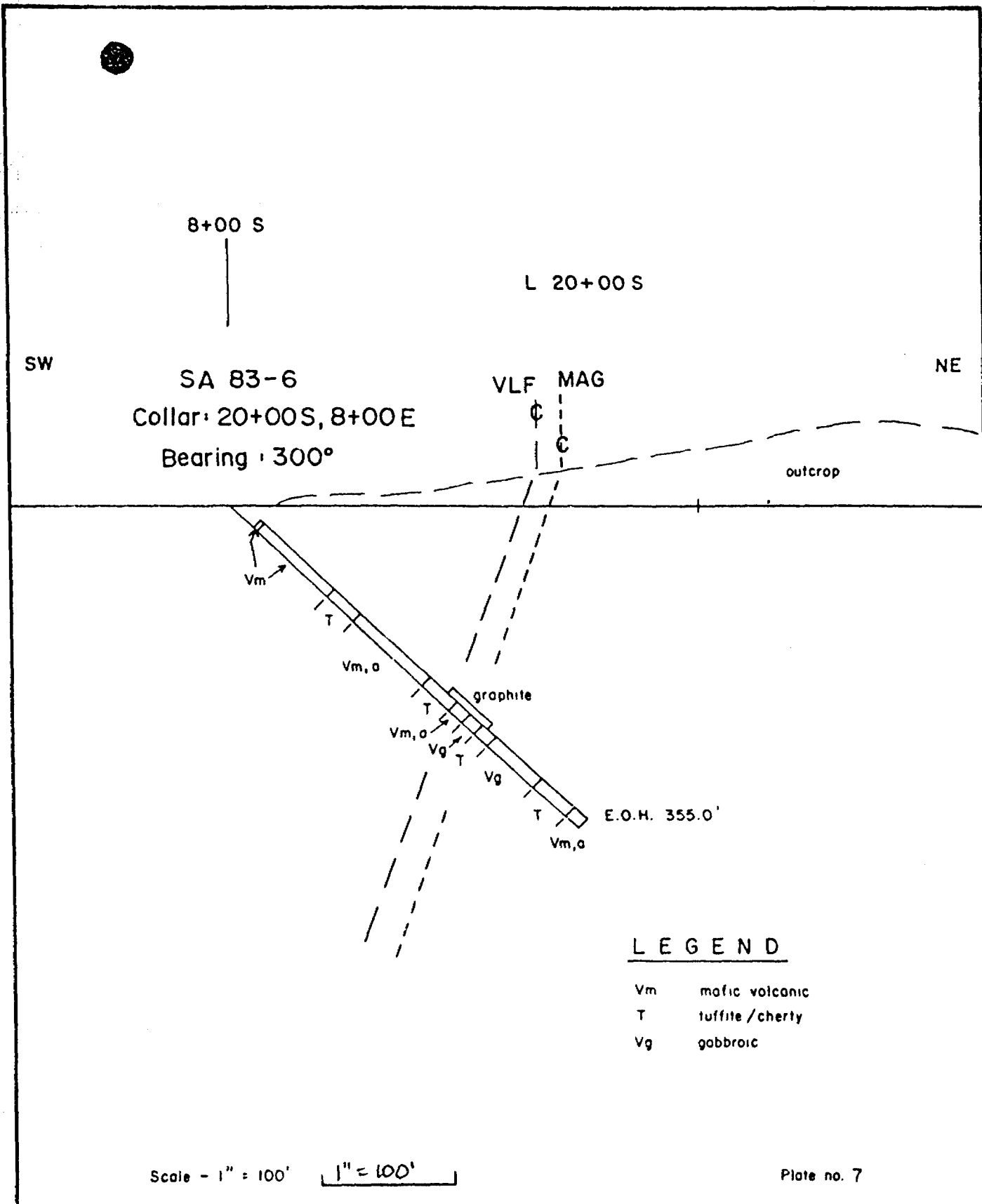
DIAMOND DRILL RECORD

NAME OF PROPERTY St. Anthony Gold Mine (Aubet)

MOLE NO. SA-83-10

SHEET NO. 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	PERCENTAGE	FOOTAGE	AU	SI/100	SI/100
		continued						
	943.0-958.0	dark gray, unaltered granite, local buff coloured or shr-bx zones 1% py shr-bx @ 947.8-949, 952-953, 954-955.	1901	1-2% py po	948.0'	954.0'	6.0'	TRACE
			1902	1-2% py po	954.0'	959.5'	5.5'	NIL
	958-1008	altered granite with local buff (bleached) shr-bx, and quartz veined zones. Average 2% py + po with common chl, py - on most slips, diminishing down section.	1903	1-2% py po	959.5'	964.0'	5.5'	0.002
			1904	2% py po	964.0'	969.0'	5.0'	0.001
		959-961 - shr-bx	1905	2-5% po py	969.0'	974.0'	5.0'	0.001
		<u>959.4-961.3 - qtz-vein zone 5% po 2% py</u>	1906	2% py po	974.0'	978.0'	5.0'	0.001
		963-964 - shr-bx, bleached, several 1-2" q.v. 2% po py.	1907	1-2% 2% sph py po	978.0'	982.5'	4.5'	0.001
		967 - 6" shr-bx minor q.v. 2% po py.	1908	2% py po	982.5'	987.5'	5.0'	0.001
		968-972 - lightly bleached - 5% qtz laced 1-2% py po.	1909	1% py po	987.5'	992.5'	5.0'	TRACE
		973.5-975 - buff-altered 2% py.	1910	1-2% py	992.5'	000.0'	7.5'	0.012
		<u>975-977.8 - qtz vein - shr-bx zone 40% qtz 1-2% sph - 1-2% py, po Tr cpy.</u>	1911	2% py	000.0'	003.8'	3.8'	0.003
			1912	1-2% py po	003.8'	008.0'	4.2'	TRACE
		978.5 - 2-3" shr-bx.	1913	COMPOSITE				0.020
		981 - 4" shr-bx 1% py.						
		983-985 - bleached - shr-bx, 30% qtz 2% po, py Tr cpy						
		986 - 2" barren white q.v.						
		<u>988.5-989.5 shr-bx + 30% qtz - barren, 1-2% chl, 3% py 1% po.</u>						
		999.6-1003 - qtz laced 30-40% qtz 2% po, 7% py buff-gray.						
		1006.5 - 2" q.v. 2% py, po.						

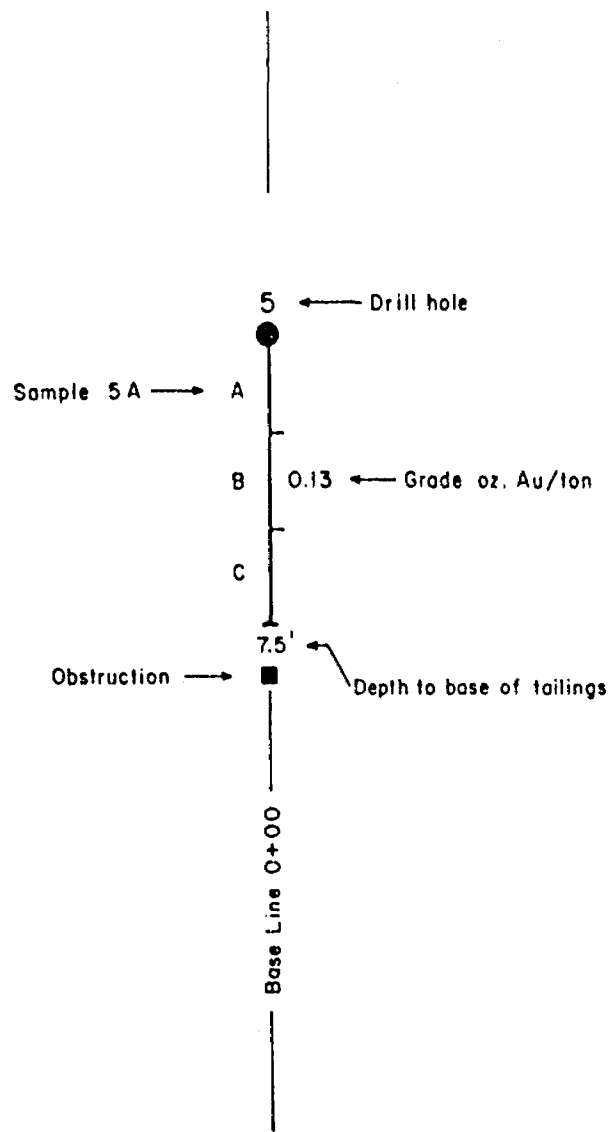


HALO CENTREX INC.

AUBET RESOURCES INC.
Drill Hole SA 83-6
ST. ANTHONY GOLD MINE PROPERTY

Tailings Cross Sections

7+25 N	0+75 N
6+75 N	0+50 N
6+25 N	0+25 N
5+75 N	0+00
5+25 N	0+25 S
4+75 N	0+50 S
4+00 N	0+75 S
3+75 N	1+00 S
3+50 N	1+25 S
3+25 N	holes 87, 88, 89
3+00 N	4+25 N
2+75 N	
2+50 N	
2+25 N	
2+00 N	
1+75 N	
1+50 N	
1+25 N	
1+00 N	



Scale

VERTICAL 1" = 10 ft.
 HORIZONTAL 1" = 25 ft.

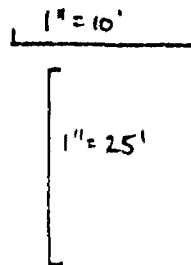
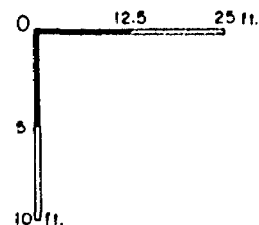
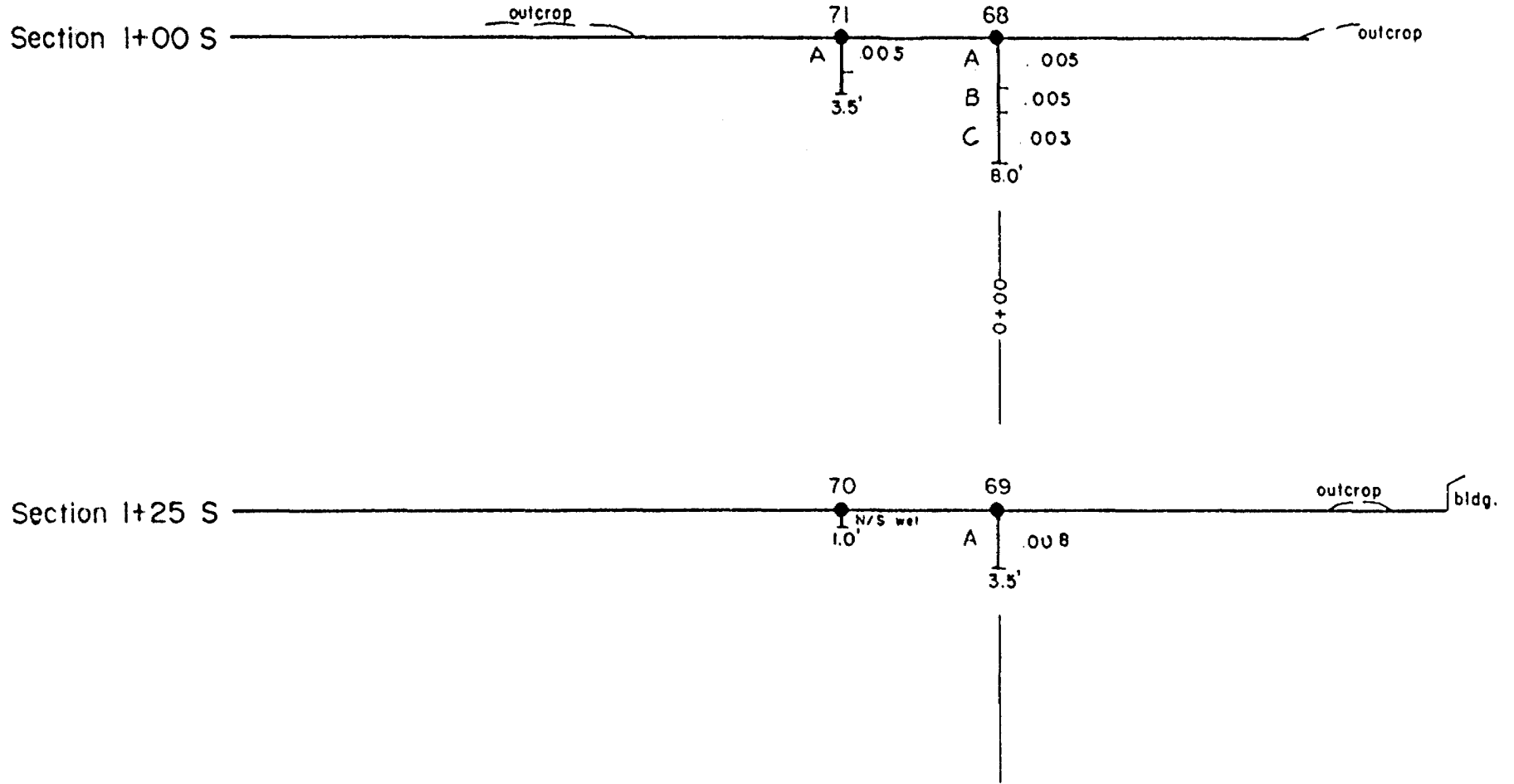


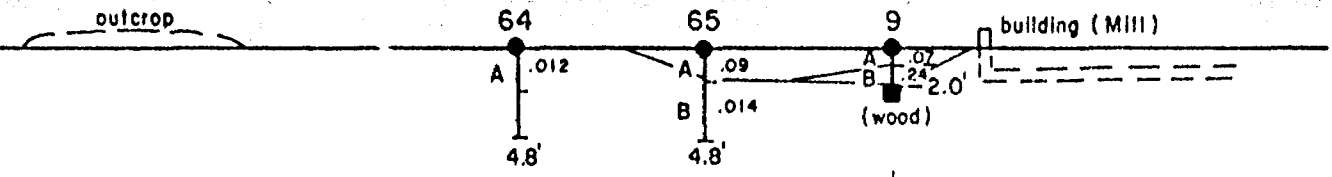
Plate no. 3C

HALO CENTREX INC.

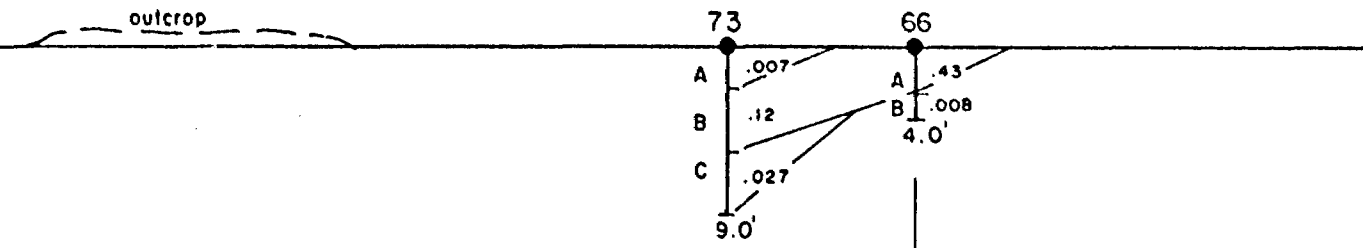
AUBET RESOURCES INC.
 LEGEND FOR TAILINGS CROSS SECTIONS (Plate 3D-Plate 3L)
 ST. ANTHONY GOLD MINE PROPERTY



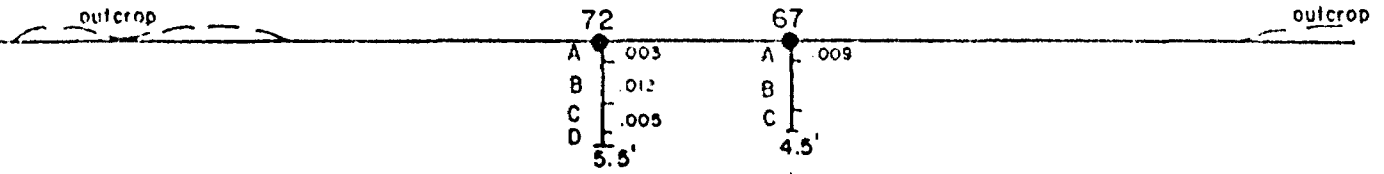
Section 0+25 S



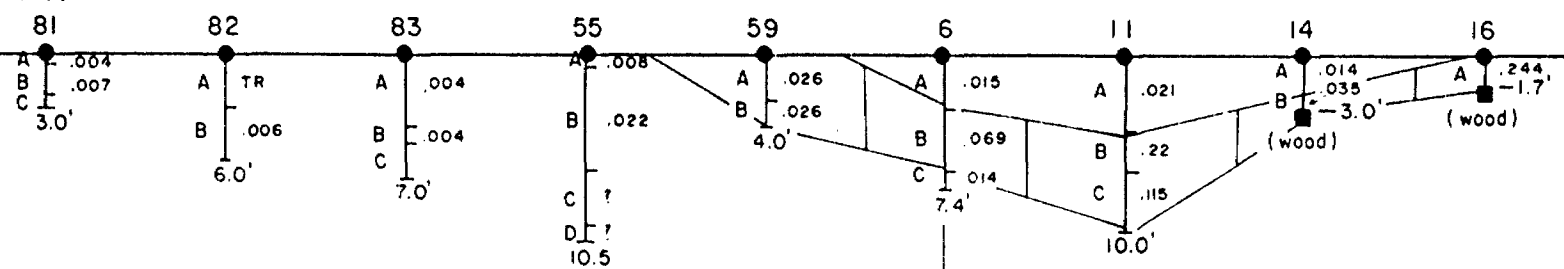
Section 0+50 S



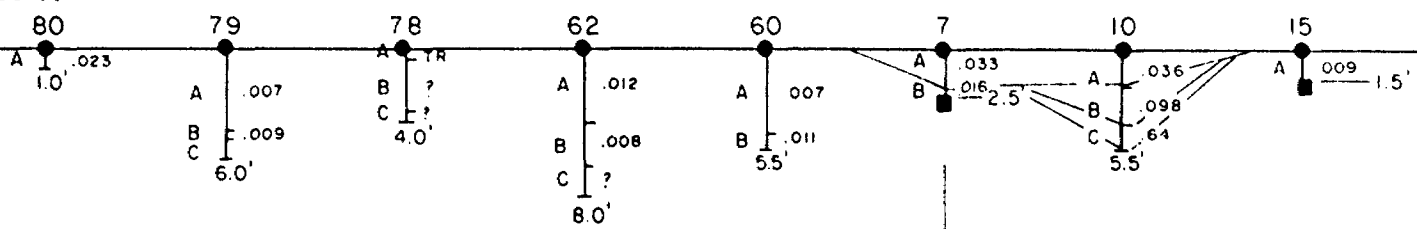
Section 0+75 S



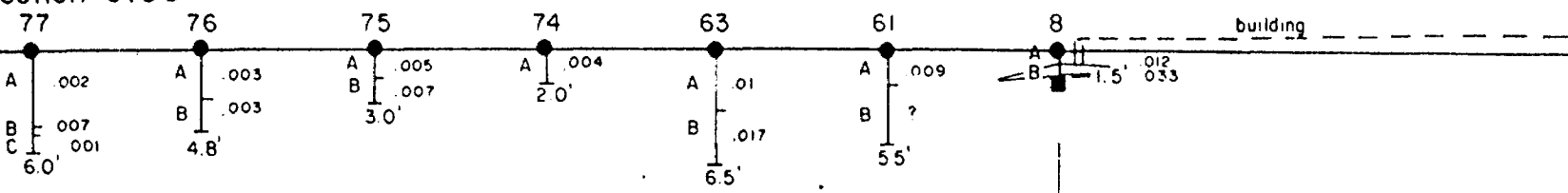
Section 0+50 N



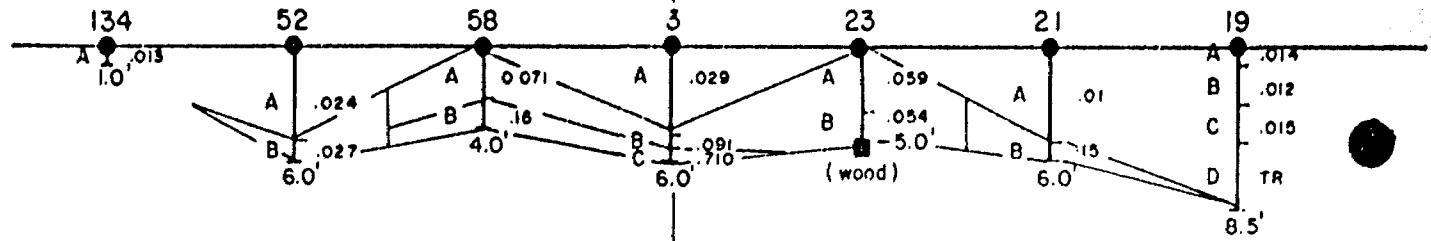
Section 0+25 N



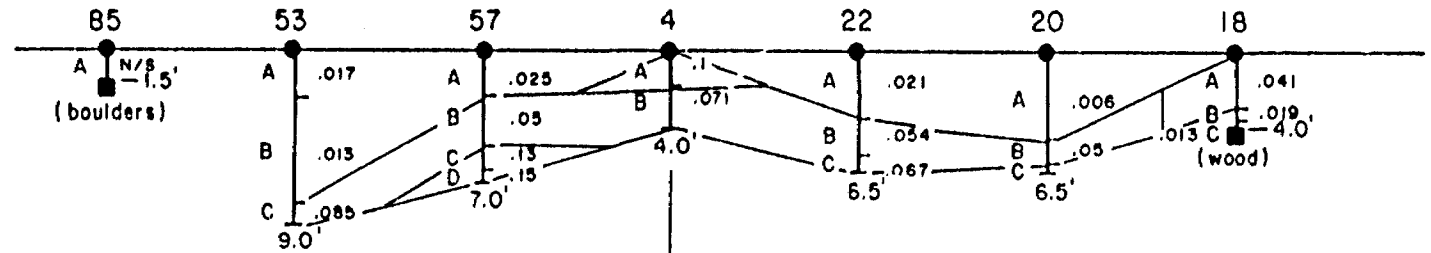
Section 0+00



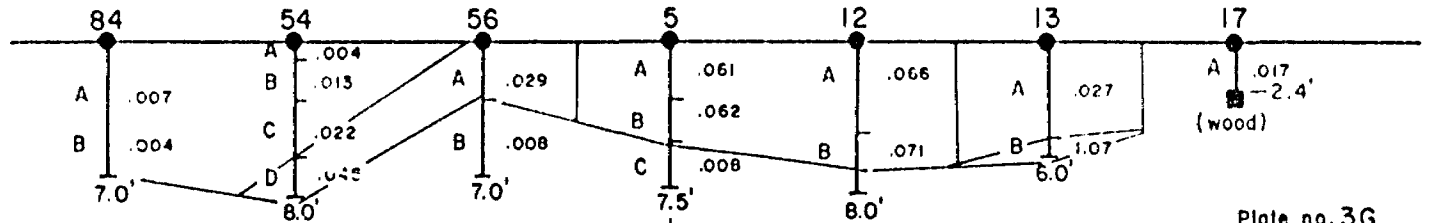
Section 1+25 N



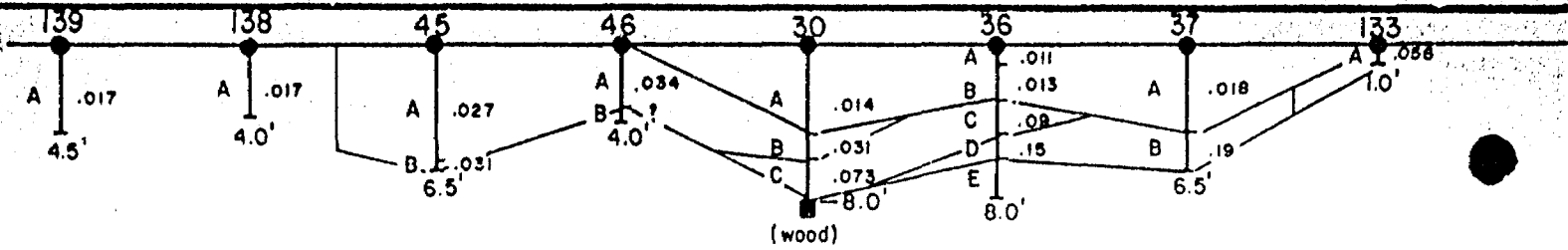
Section 1+00 N



Section 0+75 N

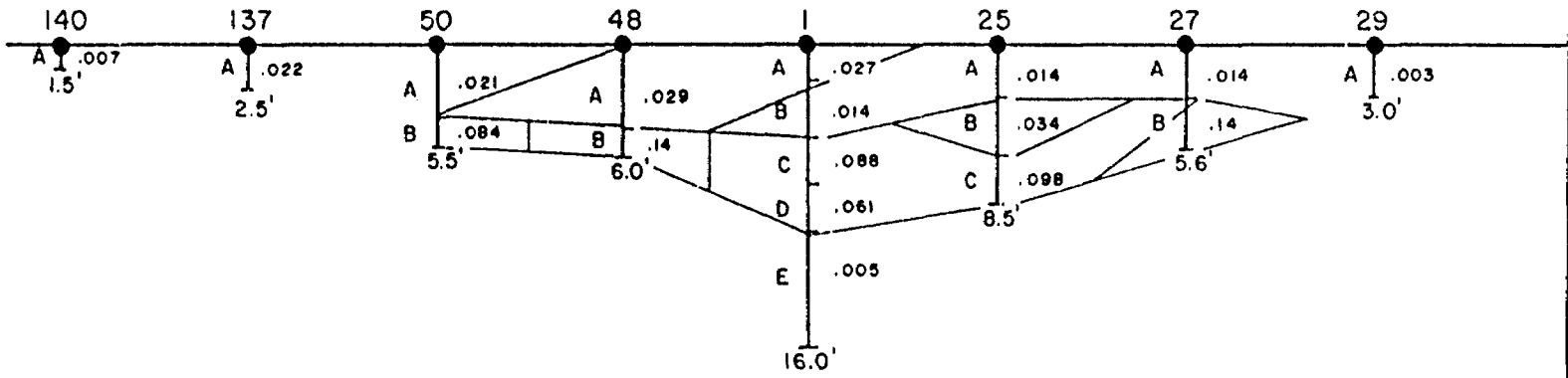


Section 2+00 N

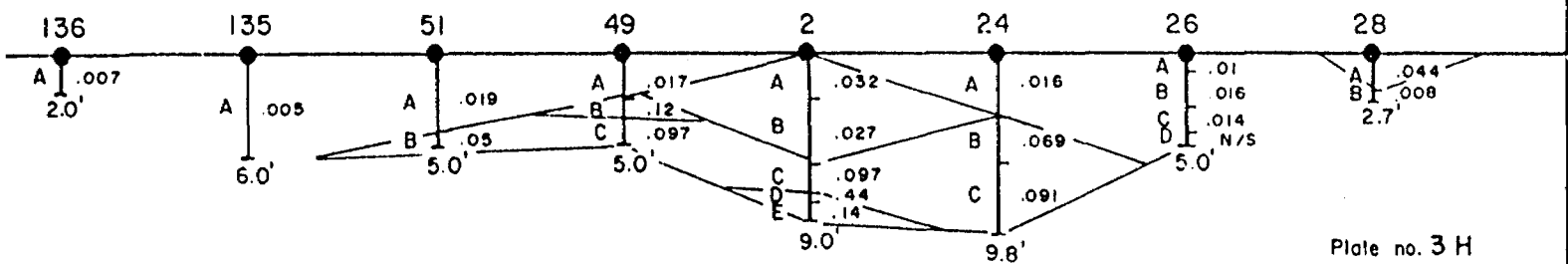


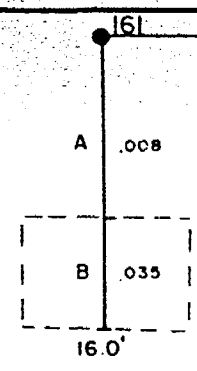
gully

Section 1+75 N

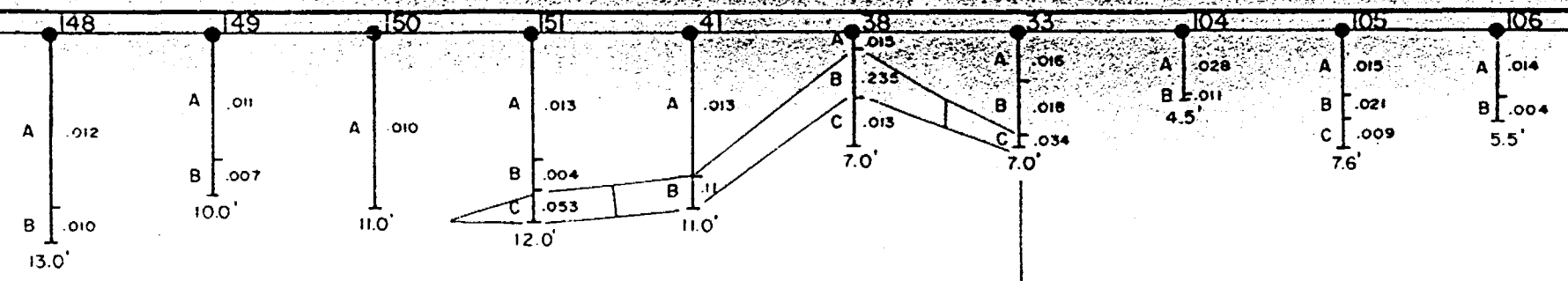


Section 1+50 N





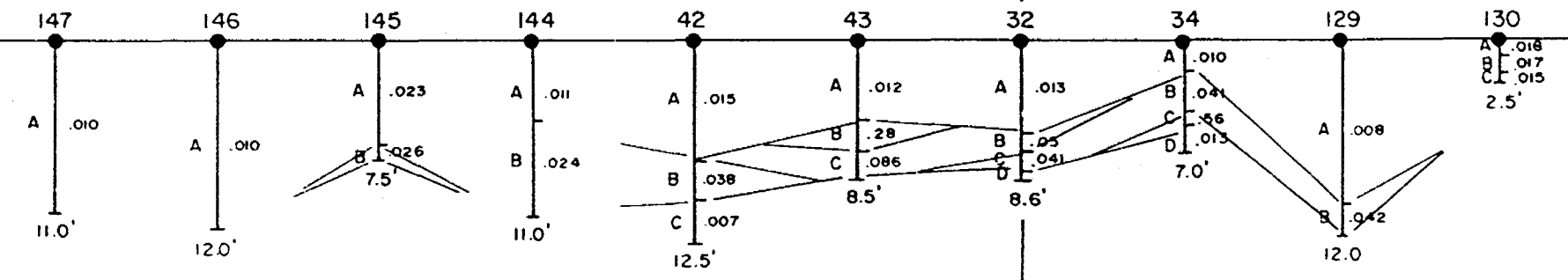
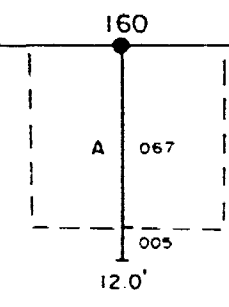
Section 2+75 N



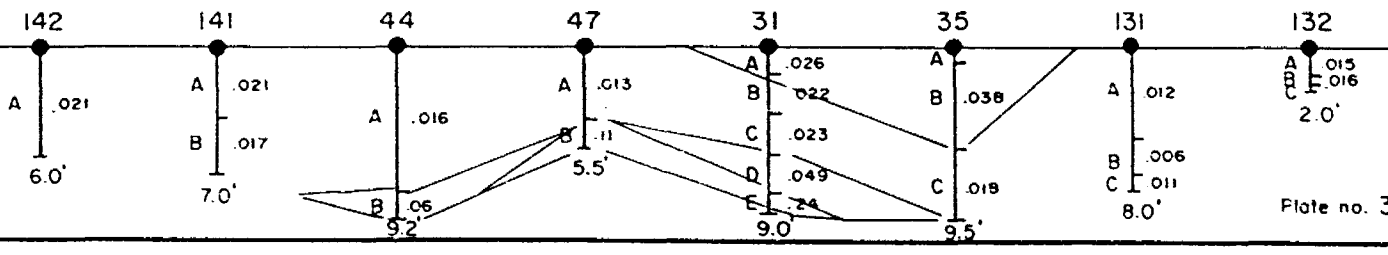
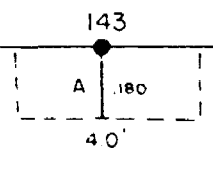
gully

0+00

Section 2+50 N



Section 2+25 N



APPENDIX E

Exploration Expenditure Summary

May 6 - September 15, 1983

Appendix E: Exploration Expenditure Summary - May 6 - September, 1983

1. Diamond Drilling	\$66,526.50
2. Tailings Sampling	18,759.63
3. Assays	10,206.08
4. Geologist	6,943.33
5. Supervision	4,000.00
6. Reports	3,133.33
7. Shaft Fencing	5,175.00
8. Associated Expenses - travel, supplies, equipment, administration	<u>10,185.12</u>
Total	\$124,928.99

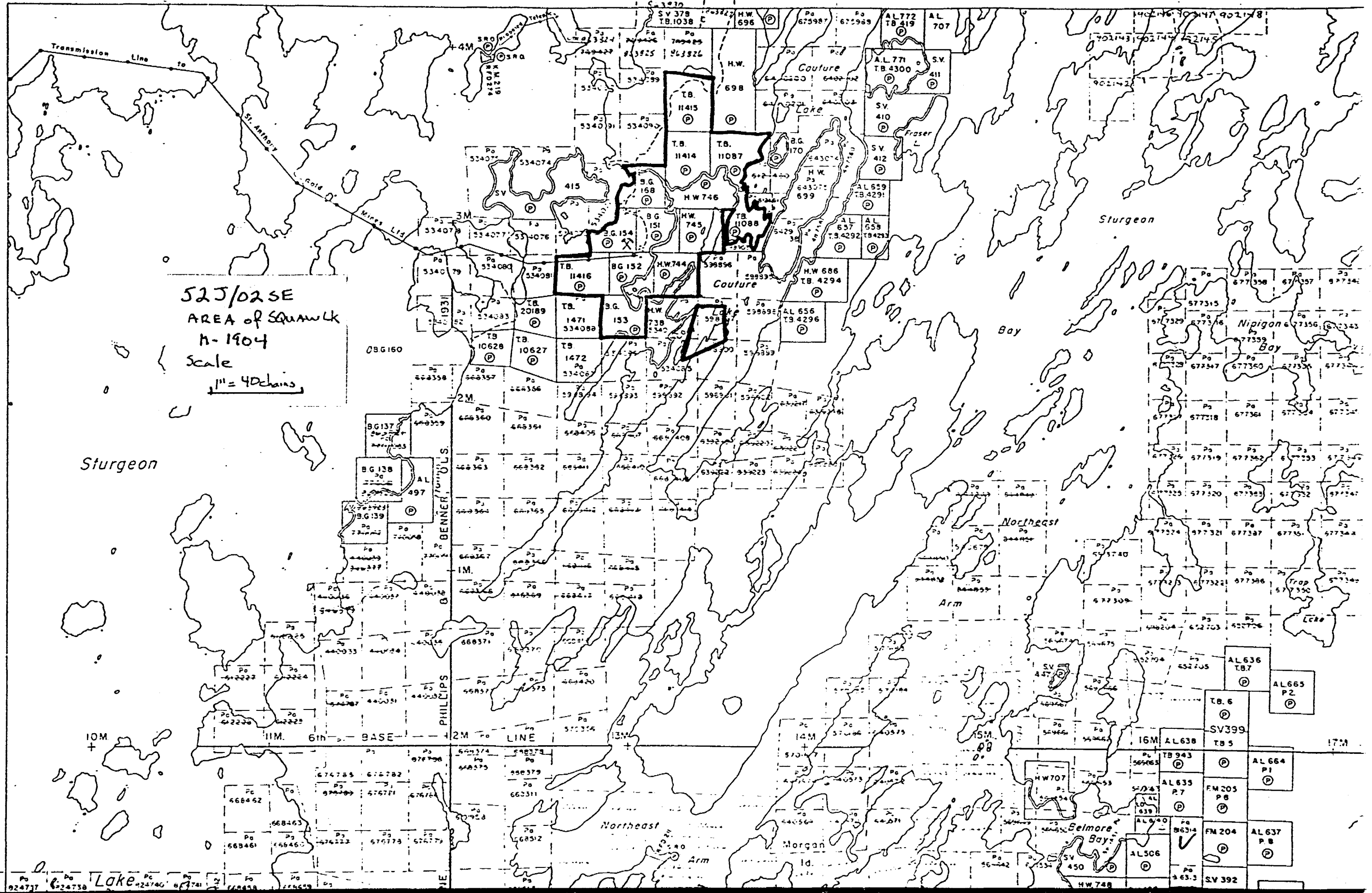


Beckington Lake Area G-2532

90°45'

900

50°07'30"



52J/02SE
AREA of Squawlk
N-1904
Scale
1" = 40 chains

rbay Lake Area - G-2543
FOURDAY

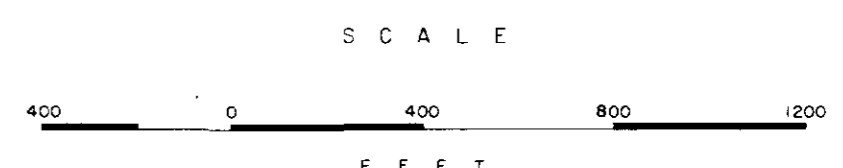
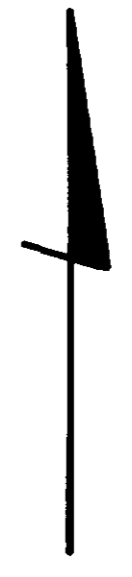
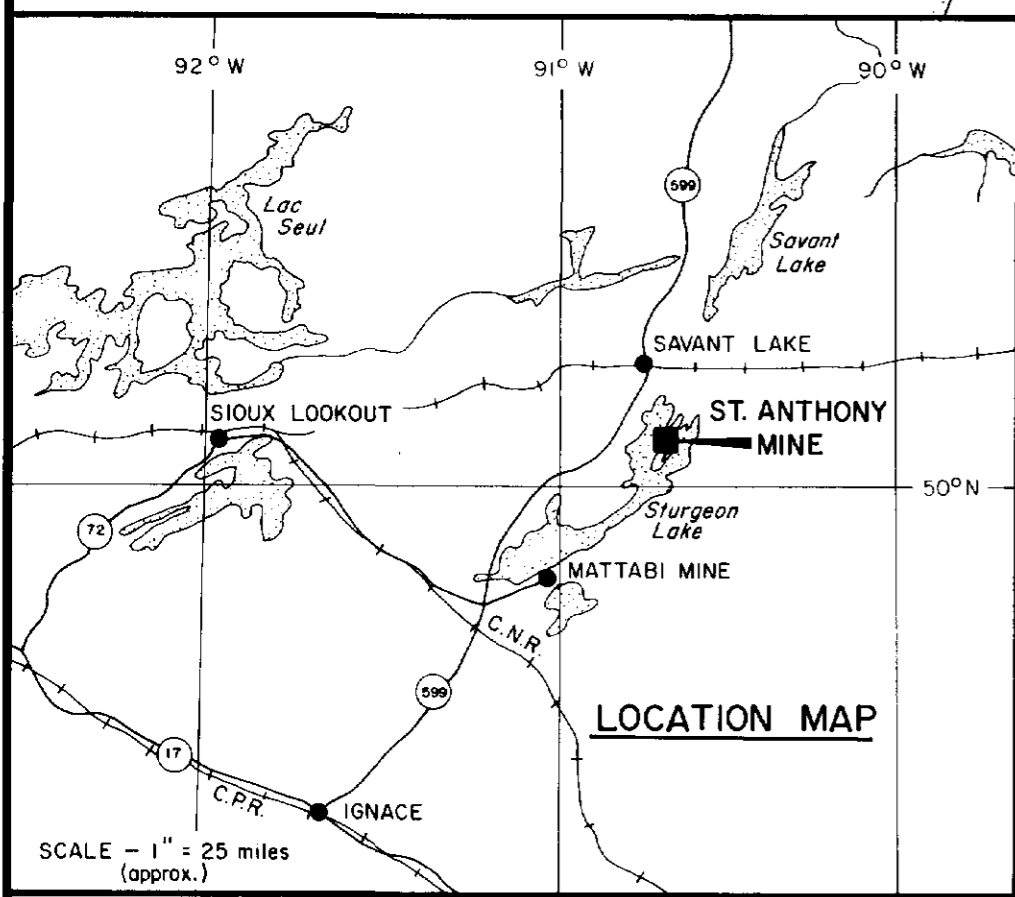
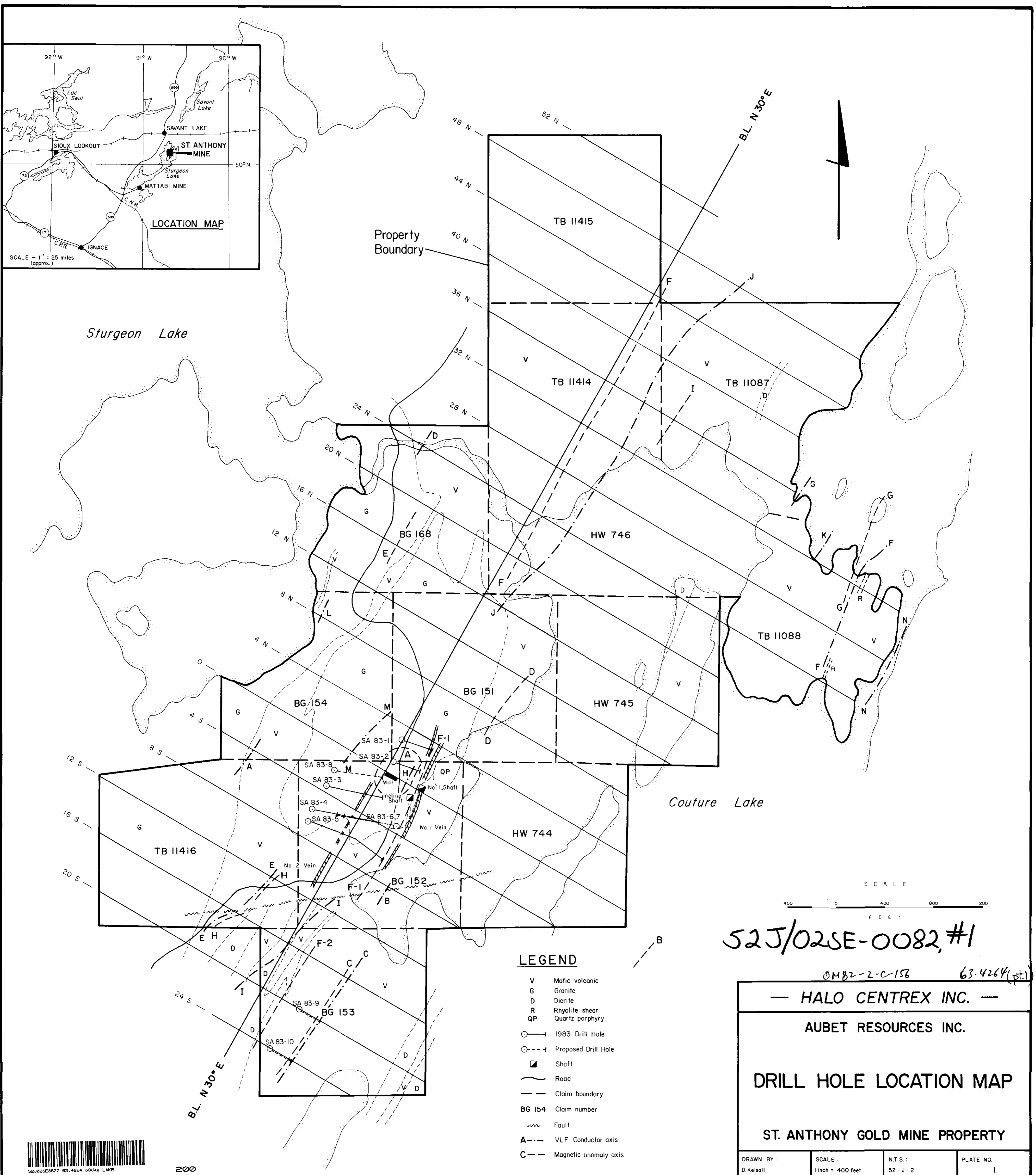
924737 624738 Lake 424740 624741 624742 624743

FOR ADDITIONAL

INFORMATION

SEE MAPS:

52J/02SE-0082 #1-24



52J/02SE-0082, #1

OMB2-2-C-156 63-4264 (pt)

— HALO CENTREX INC. —

AUBET RESOURCES INC.

DRILL HOLE LOCATION MAP

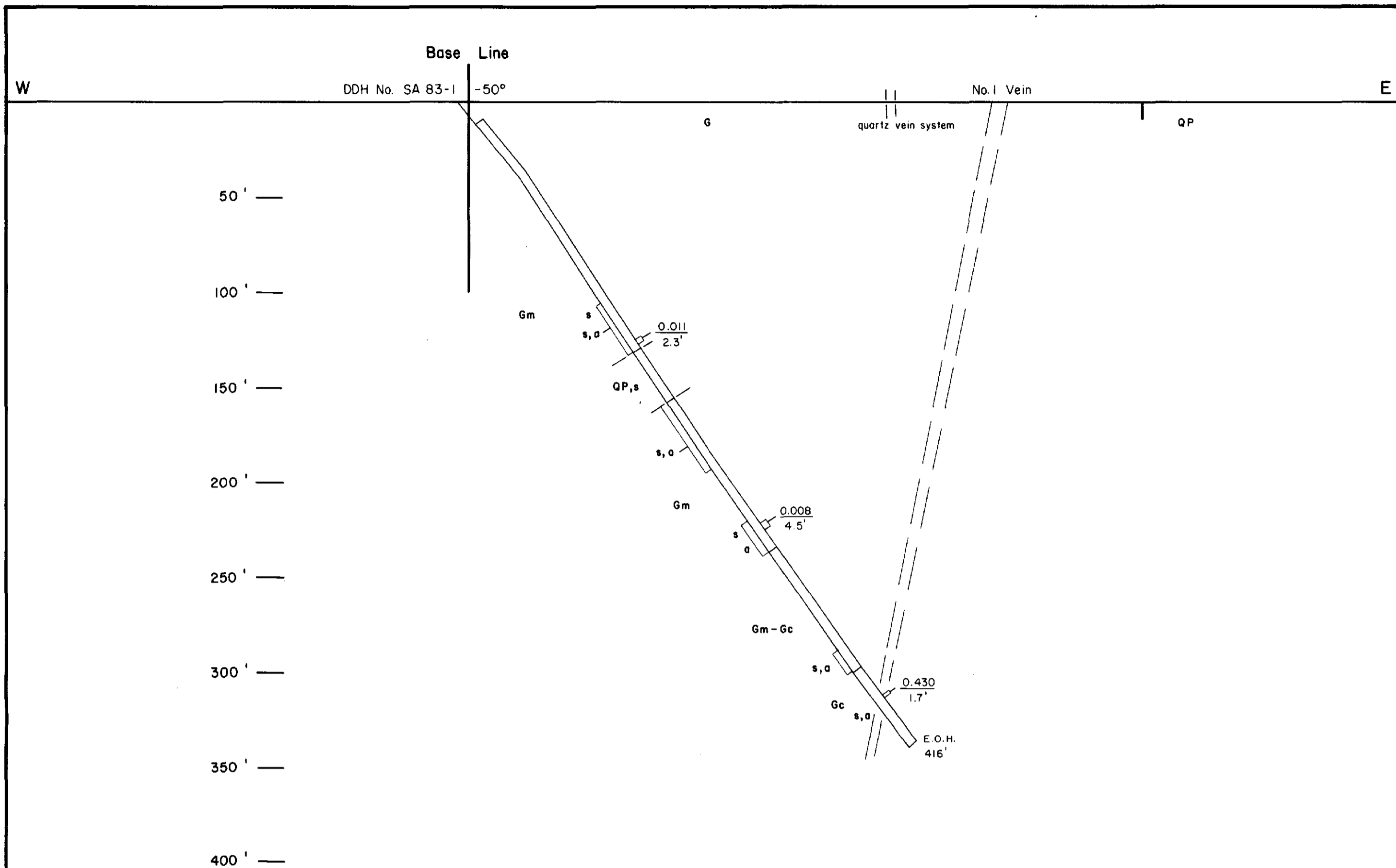
ST. ANTHONY GOLD MINE PROPERTY

LEGEND

- V Mafic volcanic
- G Granite
- D Diorite
- R Rhyolite shear
- QP Quartz porphyry
- 1983 Drill Hole
- - - Proposed Drill Hole
- Shaft
- Road
- - - Claim boundary
- BG 154 Claim number
- ~ Fault
- A- - - VLF Conductor axis
- C- - - Magnetic anomaly axis



DRAWN BY: D. Kelsall	SCALE: 1 inch = 400 feet	N.T.S.: 52-J-2	PLATE NO.: I.
-------------------------	-----------------------------	-------------------	------------------



LEGEND

- V volcanic
- Vm mafic
- G granite
- Gm medium grained
- Gc coarse grained
- M mafic dyke
- QP quartz porphyry
- D diorite
- s sheared
- a alteration: sericitization, chloritization, silicification

0.430
1.7' oz. Au/ton
 core length

← foliation



52J025E8677 63.4264 SQUAW LAKE

0082-2-c-156 63-4264 (pt.1)

— HALO CENTREX INC. —

AUBET RESOURCES INC.

GEOLOGIC SECTION
DRILL HOLE SA 83-1

Collar: 2+92N, 0+06W

Bearing: 110°

ST. ANTHONY GOLD MINE PROPERTY

0082, #2

WORK BY: J.B. Hinzer J.W. Gill	DRAWN BY: D. Kelsall	DATE: March 1983	N.T.S.: 52-J-2	PLATE NO.: 2
--------------------------------------	-------------------------	---------------------	-------------------	-----------------

Base Line

W

DDH No. SA 83-2

No. 1 Vein

E

50'

100'

150'

200'

250'

300'

350'

400'

-50°

Gm

$\frac{0.011}{1.2'}$

s, a

$\frac{0.010}{3.2'}$

Gc

s, a

QP, s

$\frac{0.013}{1.9'}$

s, a

$\frac{0.013}{5.3'}$

Gc

s, a

$\frac{0.035}{3.3'}$

Gm

E.O.H.
407.0'

SCALE

50 0 50 100 150
F E E T

LEGEND

- V volcanic
- Vm mafic
- G granite
- Gm medium grained
- Gc coarse grained
- M mafic dyke
- QP quartz porphyry
- D diorite
- s sheared
- a alteration: sericitization, chloritization, silicification

$\frac{0.430}{1.7'}$ oz. Au/ton
core length

↔ foliation



52J02SE8677 63.4264 SQUAW LAKE

OM82-2-C-158

63.4264 (pt. 1)

— HALO CENTREX INC. —

AUBET RESOURCES INC.

GEOLOGIC SECTION
DRILL HOLE SA 83-2

Collar: 0+93N, 0+27 E

Bearing: 110°

ST. ANTHONY GOLD MINE PROPERTY

WORK BY:

J.B. Hinzer
J.W. Gill

DRAWN BY:

D. Kelsall

DATE:

March 1983

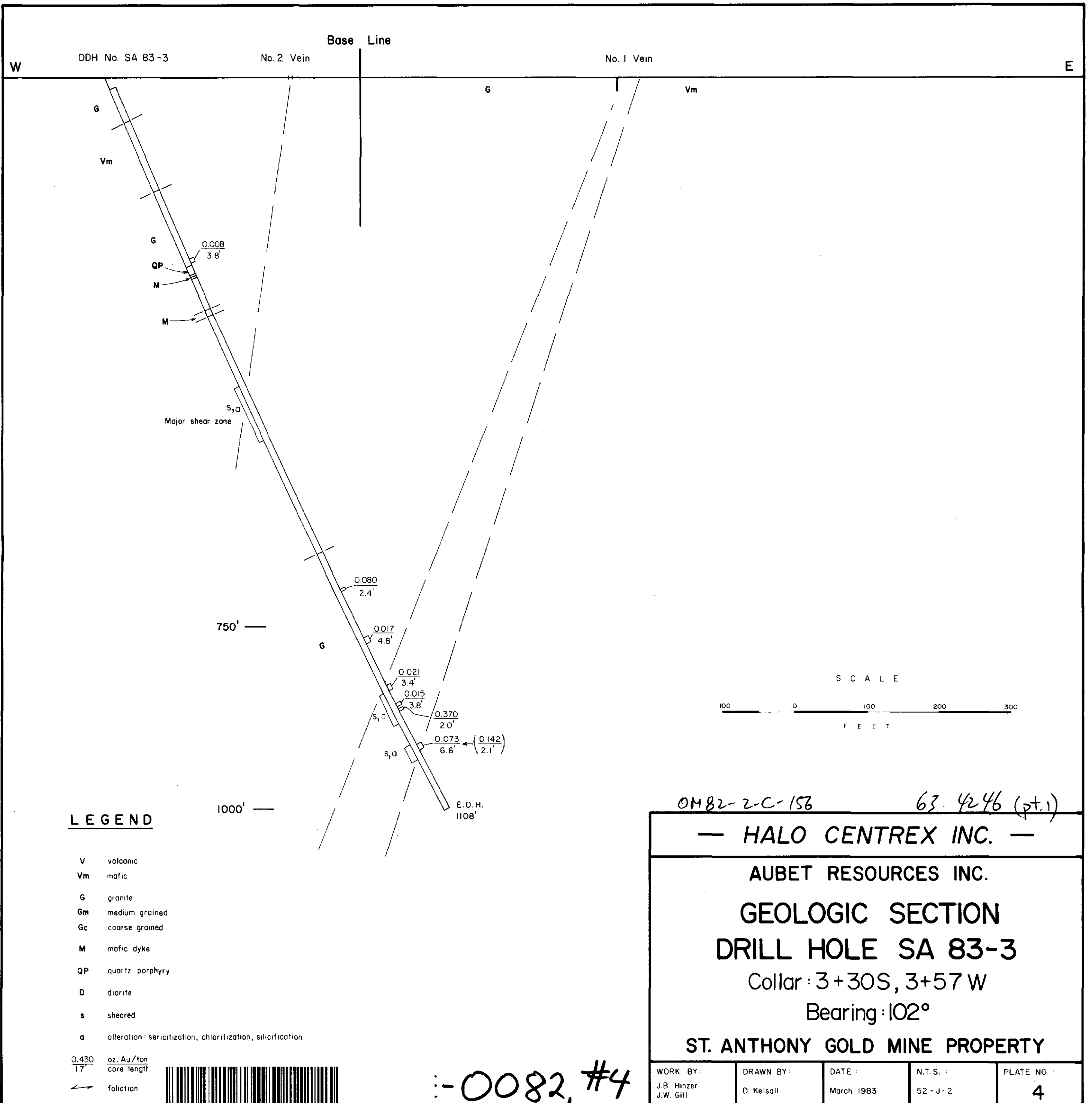
N.T.S.:

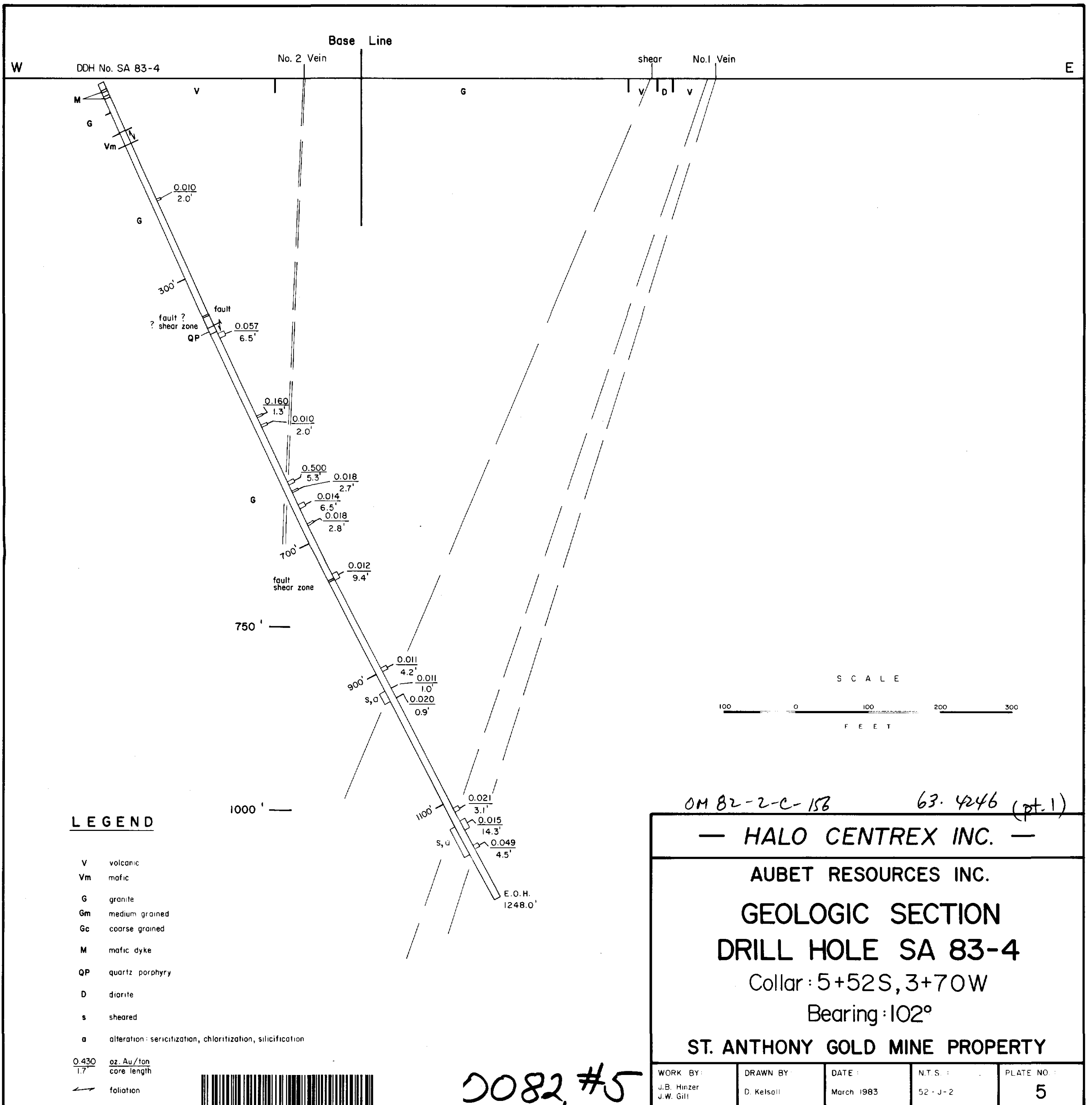
52-J-2

PLATE NO.:

3

0082, #3





LEGEND

- V volcanic
- Vm mafic
- G granite
- Gm medium grained
- Gc coarse grained
- M mafic dyke
- QP quartz porphyry
- D diorite
- s sheared
- a alteration: sericization, chloritization, silicification

0.430 oz. Au/ton
1.7' core length

← foliation



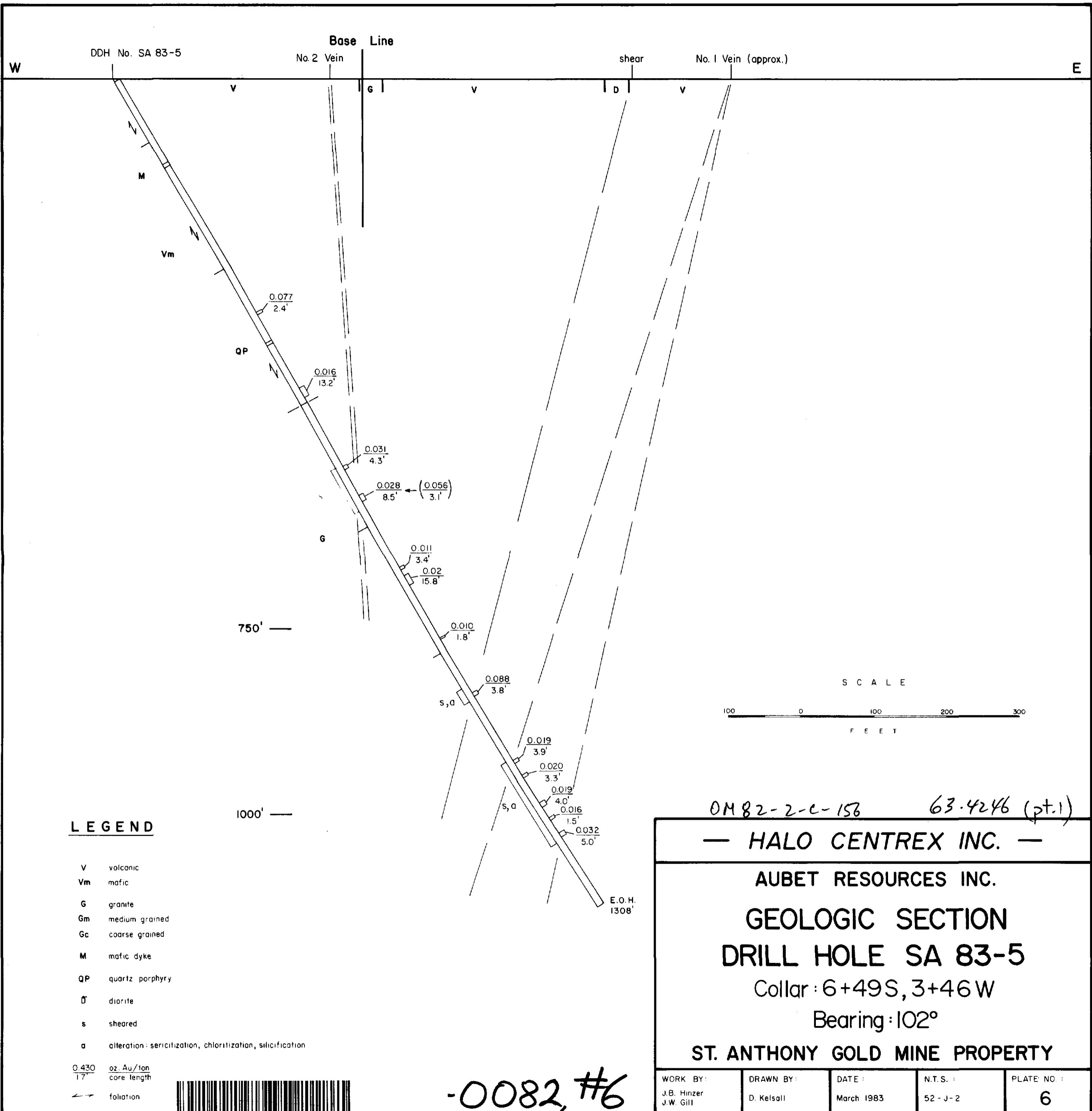
52J02SE8677 63.4264 SQUAW LAKE

0082 #5



OM 82-2-C-15B 63.4246 (pt. 1)

— HALO CENTREX INC. —				
AUBET RESOURCES INC.				
GEOLOGIC SECTION				
DRILL HOLE SA 83-4				
Collar: 5+52S, 3+70W				
Bearing: 102°				
ST. ANTHONY GOLD MINE PROPERTY				
WORK BY: J.B. Hinzer J.W. Gill	DRAWN BY: D. Kelsall	DATE: March 1983	N.T.S.: 52-J-2	PLATE NO.: 5



LEGEND

- V volcanic
- Vm mafic
- G granite
- Gm medium grained
- Gc coarse grained
- M mafic dyke
- QP quartz porphyry
- D diorite
- s sheared
- a alteration: sericitization, chloritization, silicification

0.430 oz. Au/ton
17" core length



52J025E8677 63.4264 SQUAW LAKE

-0082, #6

OM 82-2-c-156 63.4246 (pt.1)

— HALO CENTREX INC. —

AUBET RESOURCES INC.

GEOLOGIC SECTION

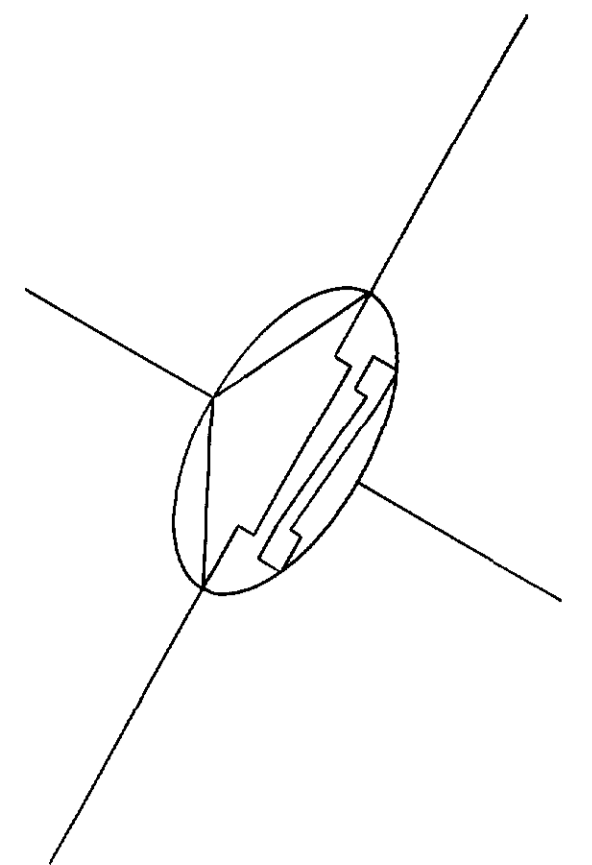
DRILL HOLE SA 83-5

Collar: 6+49S, 3+46W

Bearing: 102°

ST. ANTHONY GOLD MINE PROPERTY

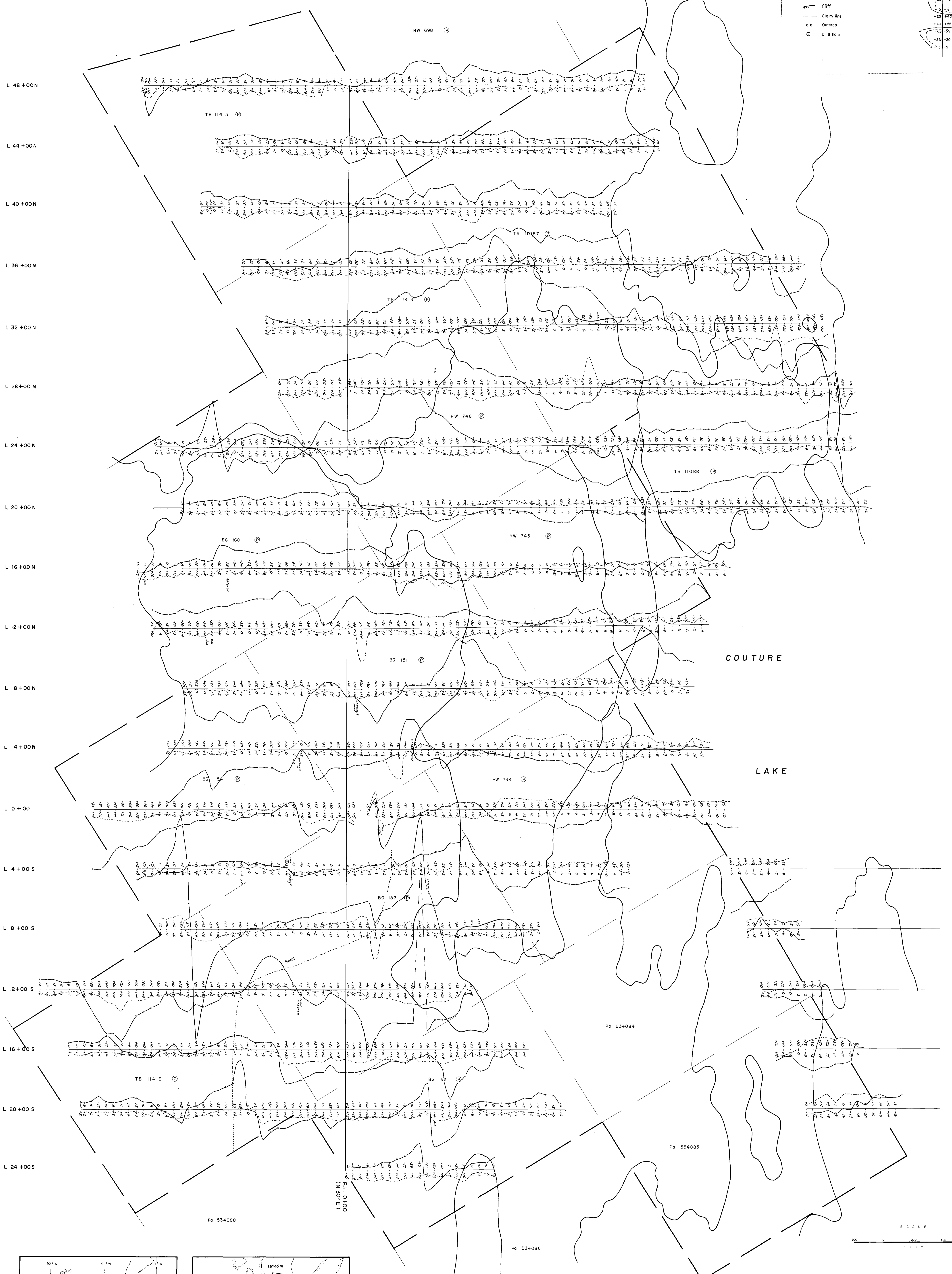
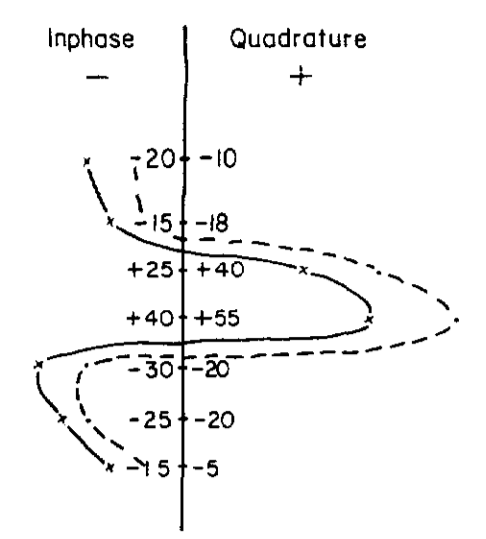
WORK BY: J.B. Hinzer J.W. Gill	DRAWN BY: D. Kelsall	DATE: March 1983	N.T.S.: 52-J-2	PLATE NO.: 6
--------------------------------------	-------------------------	---------------------	-------------------	-----------------



10+00 W BL 0+00 10+00 E 20+00 E 30+00 E

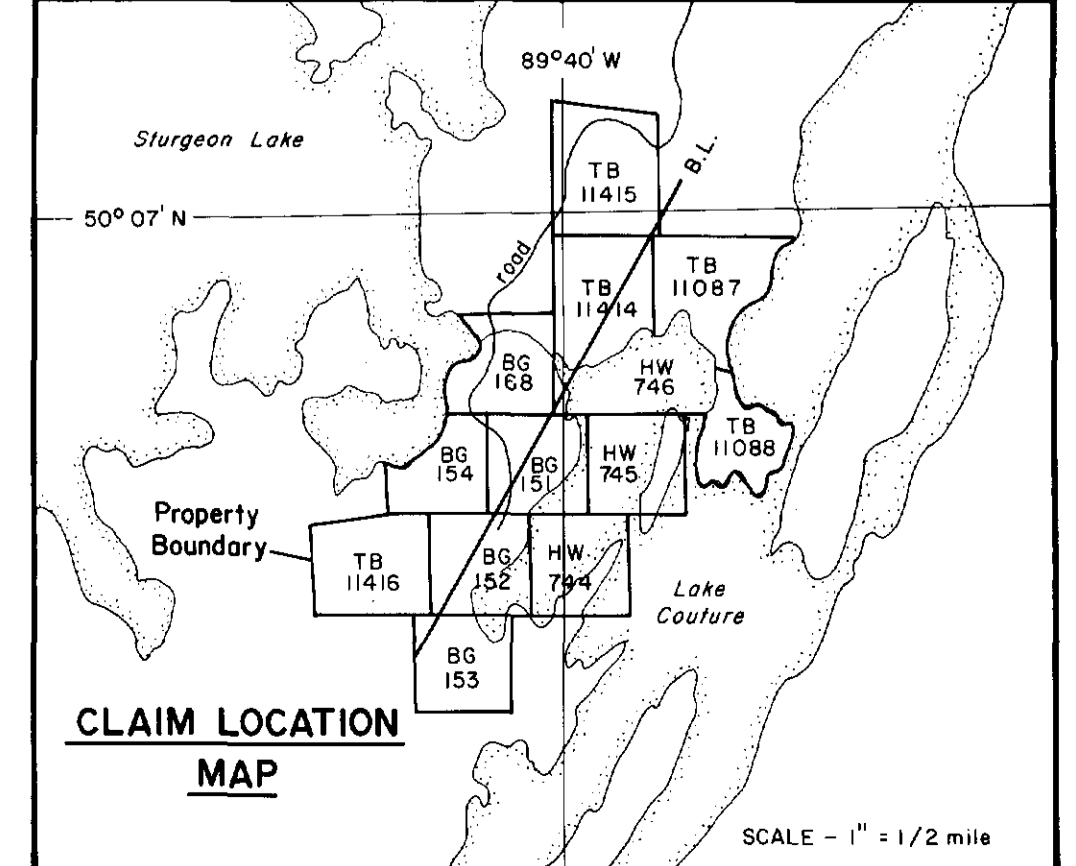
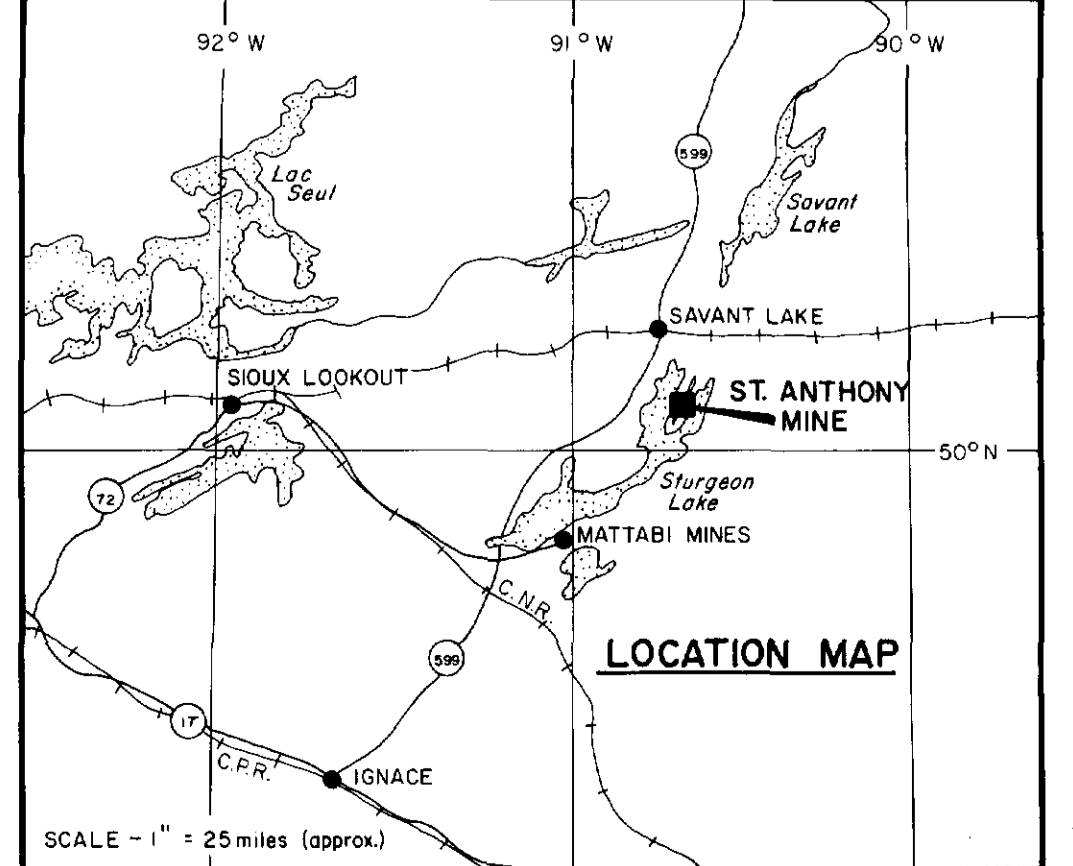
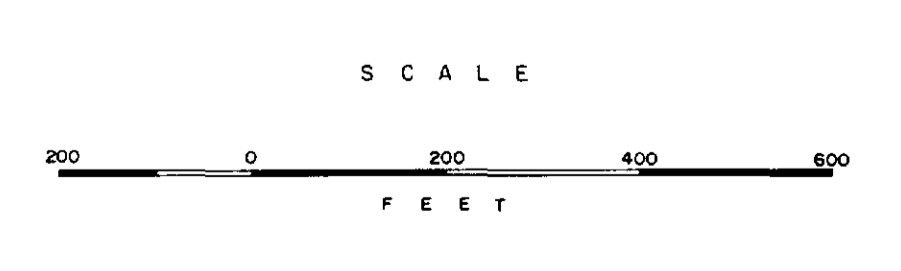
LEGEND

- Claim post (located, assumed)
- ~ Swamp
- ▲ Cliff
- - - Claim line
- o.c. Outcrop
- Drill hole



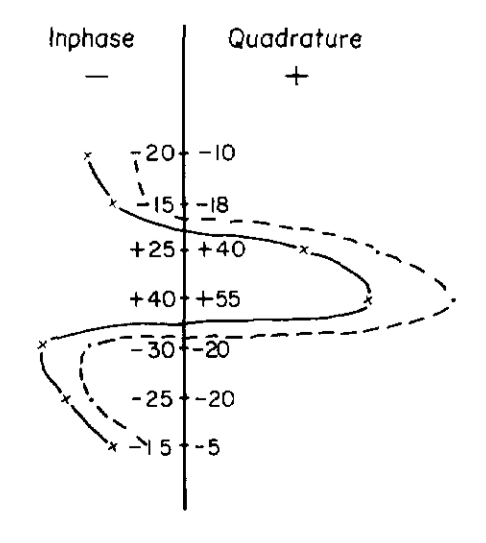
COUTURE

LAKE



LEGEND

- Claim post (located, assumed)
- ~ Swamp
- ▲ Cliff
- - - Claim line
- o.c. Outcrop
- Drill hole



INSTRUMENT - Geonics EM 16
 TRANSMITTER STATION - Cutler, Moine
 READING - Facing north
 PROFILE SCALE - 1" = 40' (unless noted)

Work done by NORTHWEST GEOPHYSICS LTD.
 Thunder Bay, Ontario

OM 82-2-c-156 63.4246 (pt.)

HALO CENTREX INC.
AUBET RESOURCES INC.

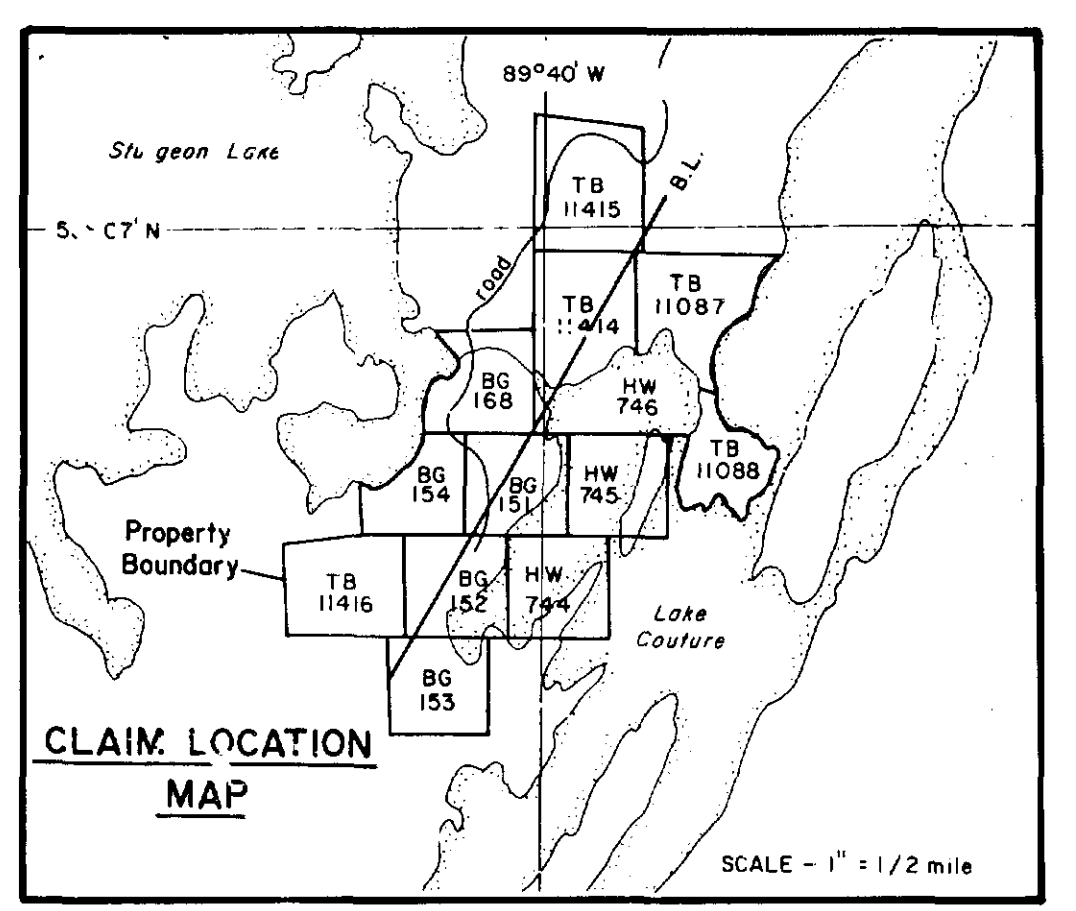
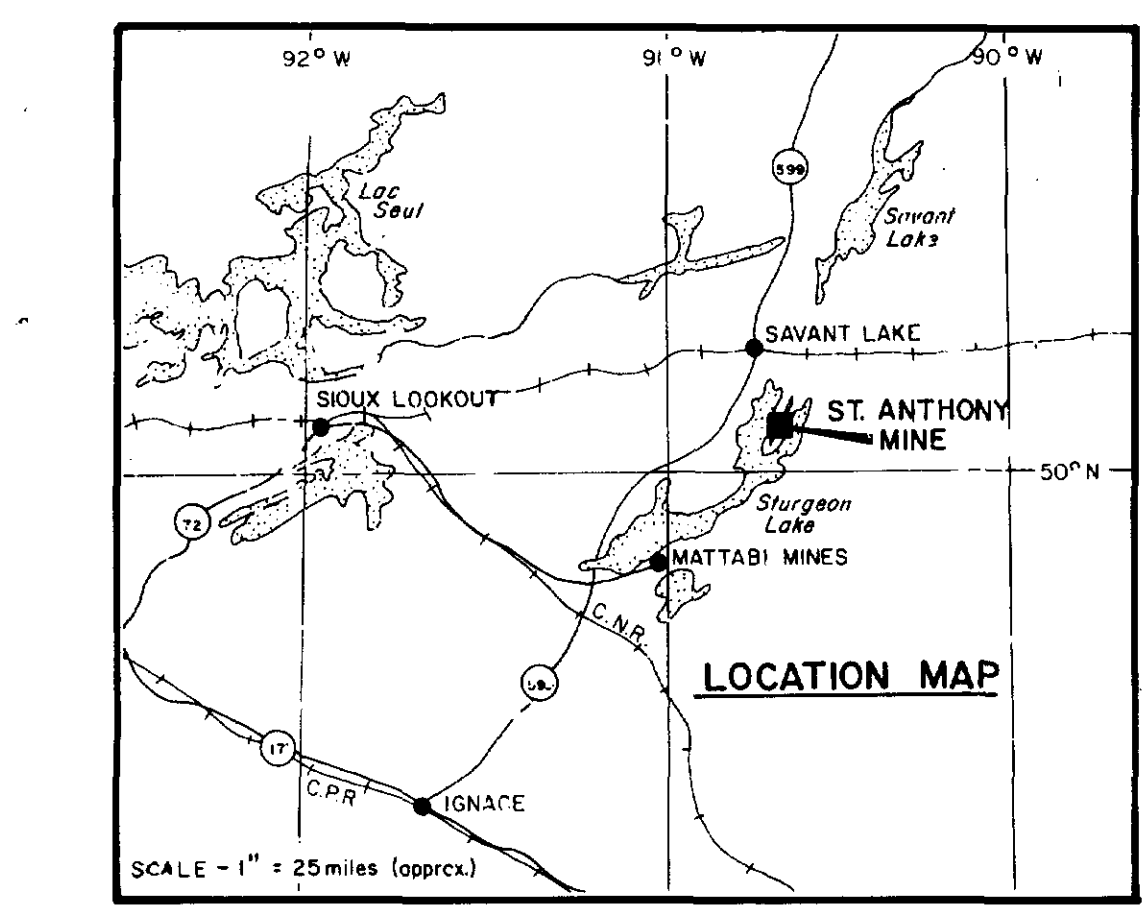
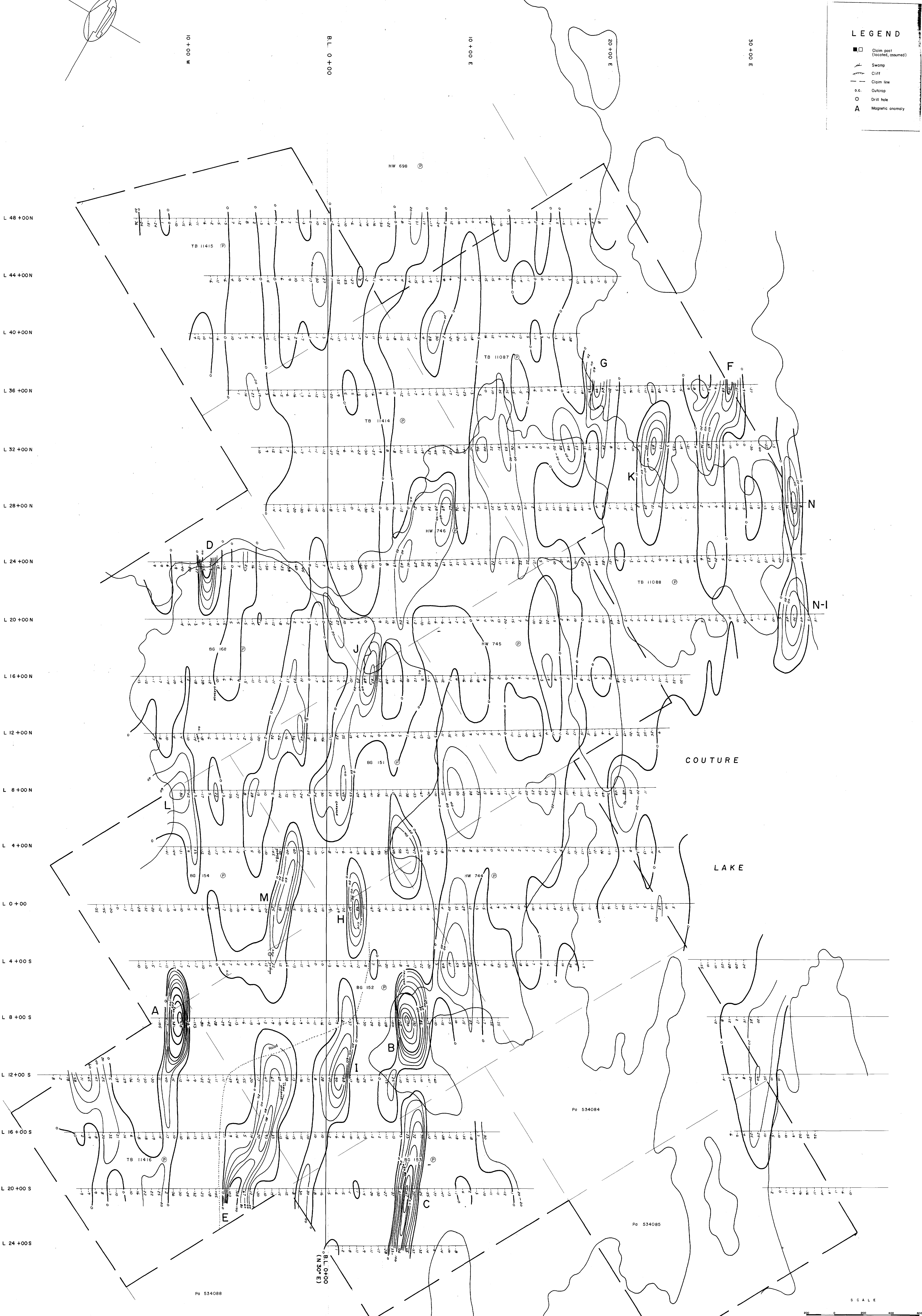
V.L.F SURVEY

ST. ANTHONY GOLD MINE PROPERTY

DATE: February 1985 SCALE: 1 inch = 200 feet N.T.S. PLATE NO. 52-J-2 7

LEGEND

- Claim post (located, assumed)
- Swamp
- Cliff
- Claim line
- o.c. Outcrop
- Drill hole
- A Magnetic anomaly



LEGEND

- Claim post (located, assumed)
- Swamp
- Cliff
- Claim line
- o.c. Outcrop
- Drill hole
- A Magnetic anomaly

INSTRUMENT: Geonics EM 16
 TRANSMITTER STATION: Outter, Maine
 READING: Facing north
 CONTOUR INTERVAL: 20
 Work done by: NORTHWEST GEOPHYSICS LTD.
 Thunder Bay, Ontario

0MB2-2-c-156 63-4246 (pt.)

— HALO CENTREX INC. —
 AUBET RESOURCES INC.

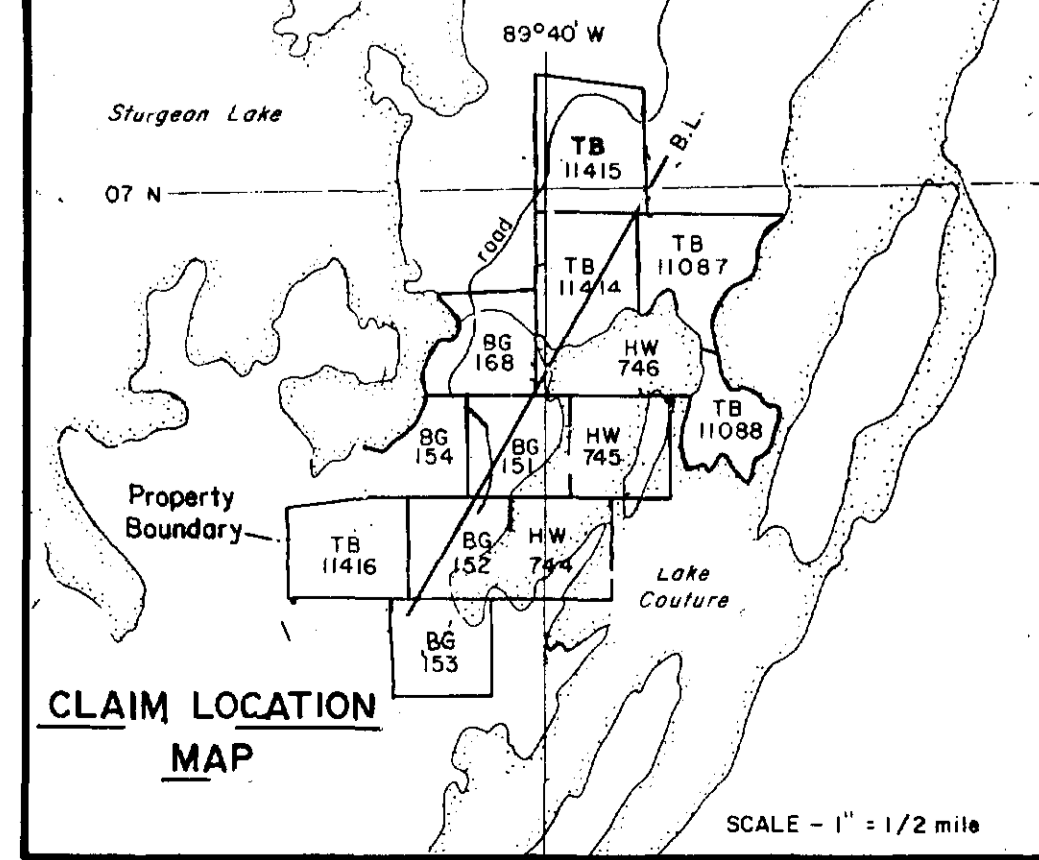
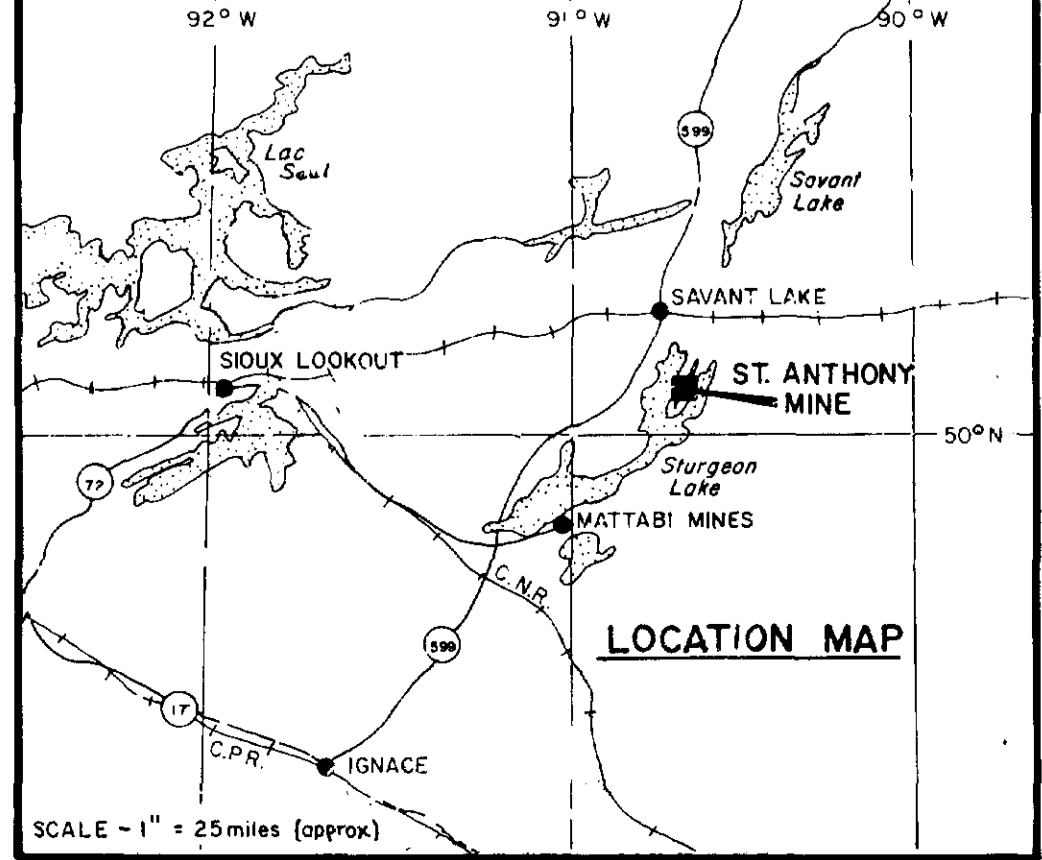
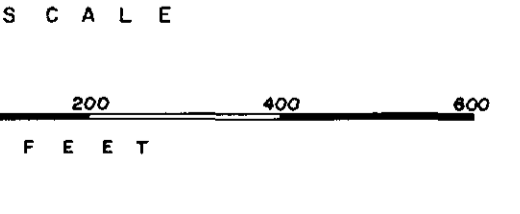
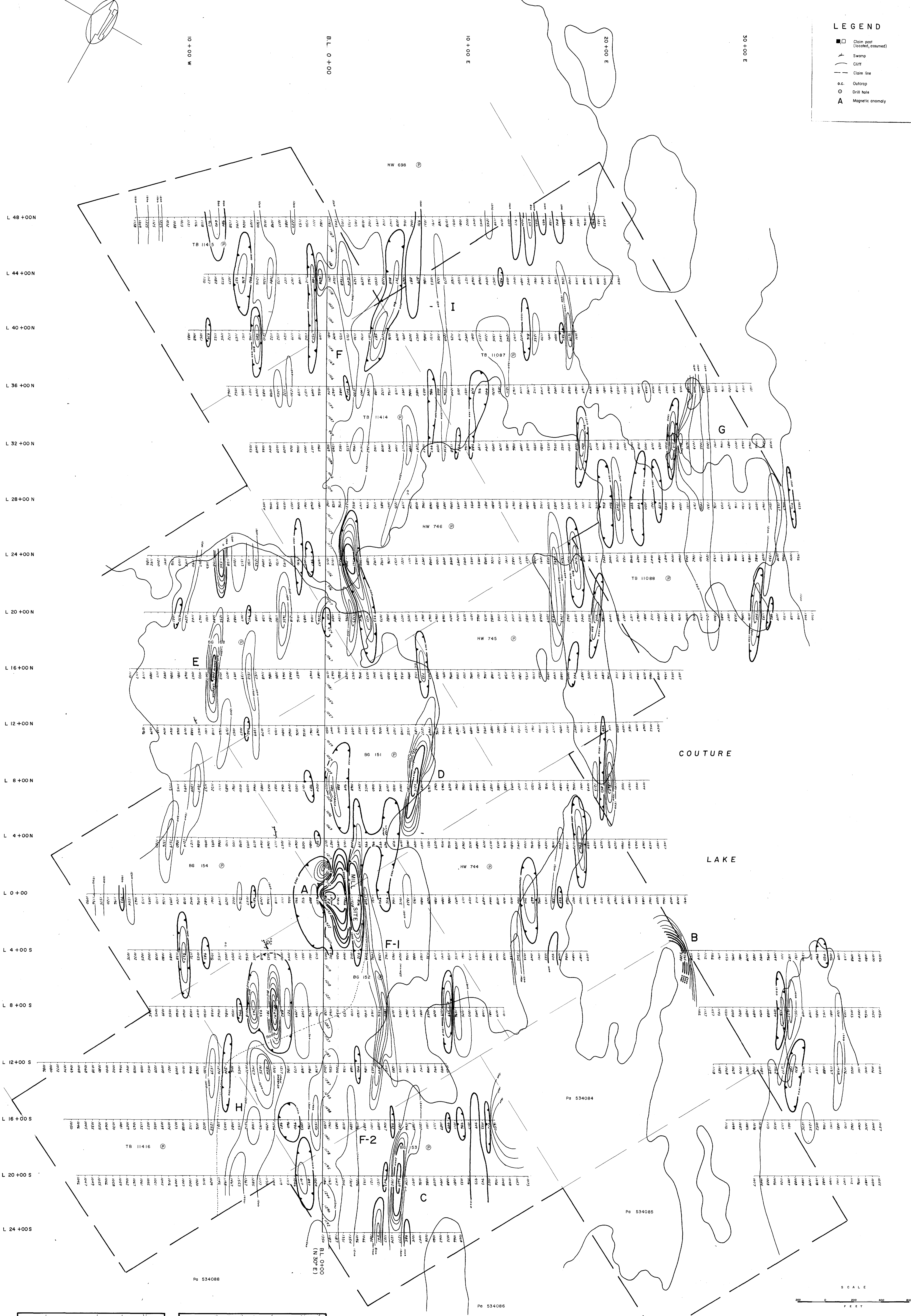
**V.L.F. SURVEY
 FRASER FILTER**

ST. ANTHONY GOLD MINE PROPERTY

DATE: February 1983	SCALE: 1 inch = 200 feet	N.T.S. 52-J-2	PLATE NO. 8
---------------------	--------------------------	---------------	-------------

LEGEND

- Claim post (located, assumed)
- ⊖ Swamp
- Cliff
- - - Claim line
- o.c. Outcrop
- Drill hole
- A Magnetic anomaly



LEGEND

- Claim post (located, assumed)
- ⊖ Swamp
- Cliff
- - - Claim line
- o.c. Outcrop
- Drill hole
- A Magnetic anomaly

INSTRUMENT: Geometrics 816 Proton Magnetometer
 DATUM: 59,000'
 CONTOUR INTERVAL: < 2000 at 200'
 > 2000 at 1000'
 MAGNETIC LOW:

Work done by: NORTHWEST GEOPHYSICS LTD.
 Thunder Bay, Ontario

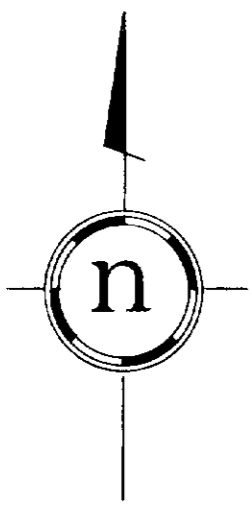
OM 82-2-c-158 63-4246 (pt 1)

— HALO CENTREX INC. —
 AUBET RESOURCES INC.

MAGNETOMETER SURVEY

ST. ANTHONY GOLD MINE PROPERTY

DATE: February 1983	SCALE: 1 inch = 200 feet	N.T.S. 52-J-2	PLATE NO. 9
---------------------	--------------------------	---------------	-------------



Sturgeon Lake

NOT MAPPED
TB 11415

TB 11414

TB 11087

HW 746

HW 745

TB 11088

Couture Lake

TAILINGS BASIN
No. 1 Vein
No. 2 Vein
Fault Zone?

LEGEND

- FP FELDSPAR PORPHYRY
- QP QUARTZ PORPHYRY
- D DIORITE, DIO. DIKES, DIORITE PORPHYRY DP
- G YOUNGER GRANITE, GG GREY GR. COMP. GR - GS COMPLEX QLQ QUARTZ LACED GRANITE
- RHY RHYOLITE, CHERT, ACID FLOWS
- GS GREENSTONE, ANDESITE, BASALT
- GEOLOGICAL CONTACT
- - - - - OUTCROP BOUNDARY
- ○ ○ ○ ○ OUTLINE OF SWAMP

0M82-2-C-156

63.4264
(pt.1)

G.M. HOGG & ASSOCIATES LTD.

GEOLOGY
OF
THE ST. ANTHONY MINE AREA
STURGEON LAKE, ONTARIO

SCALE: 1 INCH = 400 FEET

52J/02SE-0082 #10

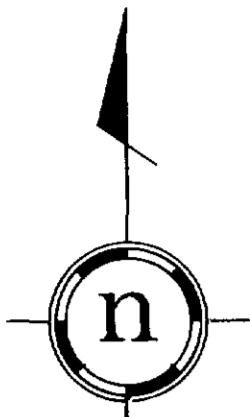


290

FROM MAP ACCOMPANYING REPORT OF G.L. HOLBROOKE
SEPTEMBER 12, 1964

SEPTEMBER 1981

MAP No. 1



TAILINGS BASIN

Pond

No. 2 VEIN SYSTEM

No. 1 VEIN SYSTEM

ROAD

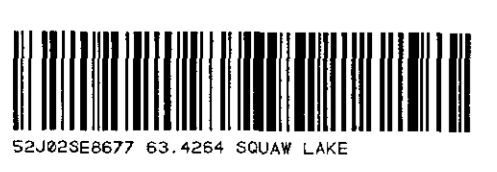
Courture Lake

LEGEND

- QP QUARTZ PORPHYRY
- D DIORITE, DIORITE PORPHYRY D.P.
- G YOUNGER GRANITE, QLC QTZ LACED GRANITE
G.G. GREY BIOTITE GRANITE
- GS GREENSTONE
- S.Q SPARSE QUARTZ
- DOMINANT FRACTURES
- MOSTLY QUARTZ IN FORM OF FRACTURES AND VEINLETS
- GEOLOGICAL CONTACT
- OUTCROP
- SWAMP
- PROPOSED DRILL HOLE

50° 00' N

50° 00' E



FROM MAP ACCOMPANYING A REPORT BY G.L. HOLBROOKE, SEPTEMBER 12, 1964

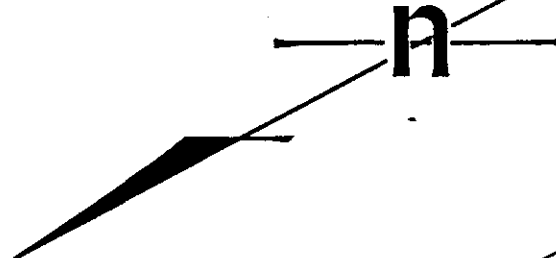
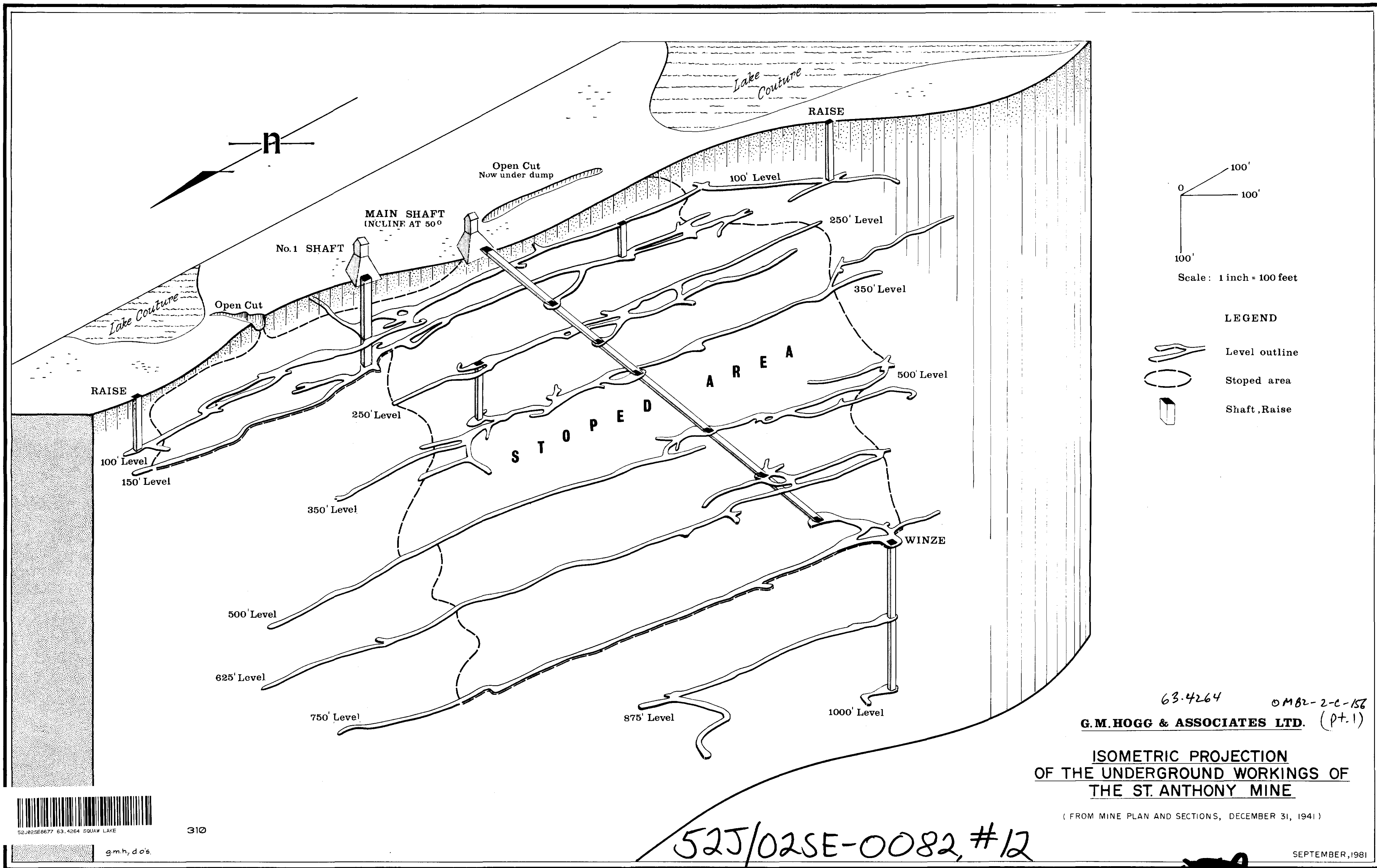
OM82-2-C-156 63.4264
G.M.HOGG & ASSOCIATES LTD. (pt. 1)

DETAILED SURFACE GEOLOGY OF THE ST. ANTHONY MINE AREA




SCALE: 1 INCH = 50 FEET

52J/02SE-0082, # 11

SEPTEMBER, 1981
MAP No. 2



100'
0
100'
100'
Scale: 1 inch = 100 feet

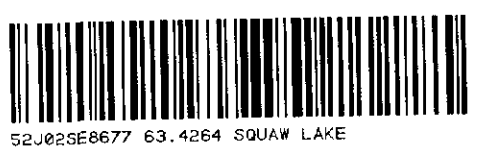
LEGEND
 Level outline
 Stopped area
 Shaft, Raise

63.4264 OMB2-2-c-156
G.M. HOGG & ASSOCIATES LTD. (pt. 1)

**ISOMETRIC PROJECTION
 OF THE UNDERGROUND WORKINGS OF
 THE ST. ANTHONY MINE**

(FROM MINE PLAN AND SECTIONS, DECEMBER 31, 1941)

52J/02SE-0082, #12

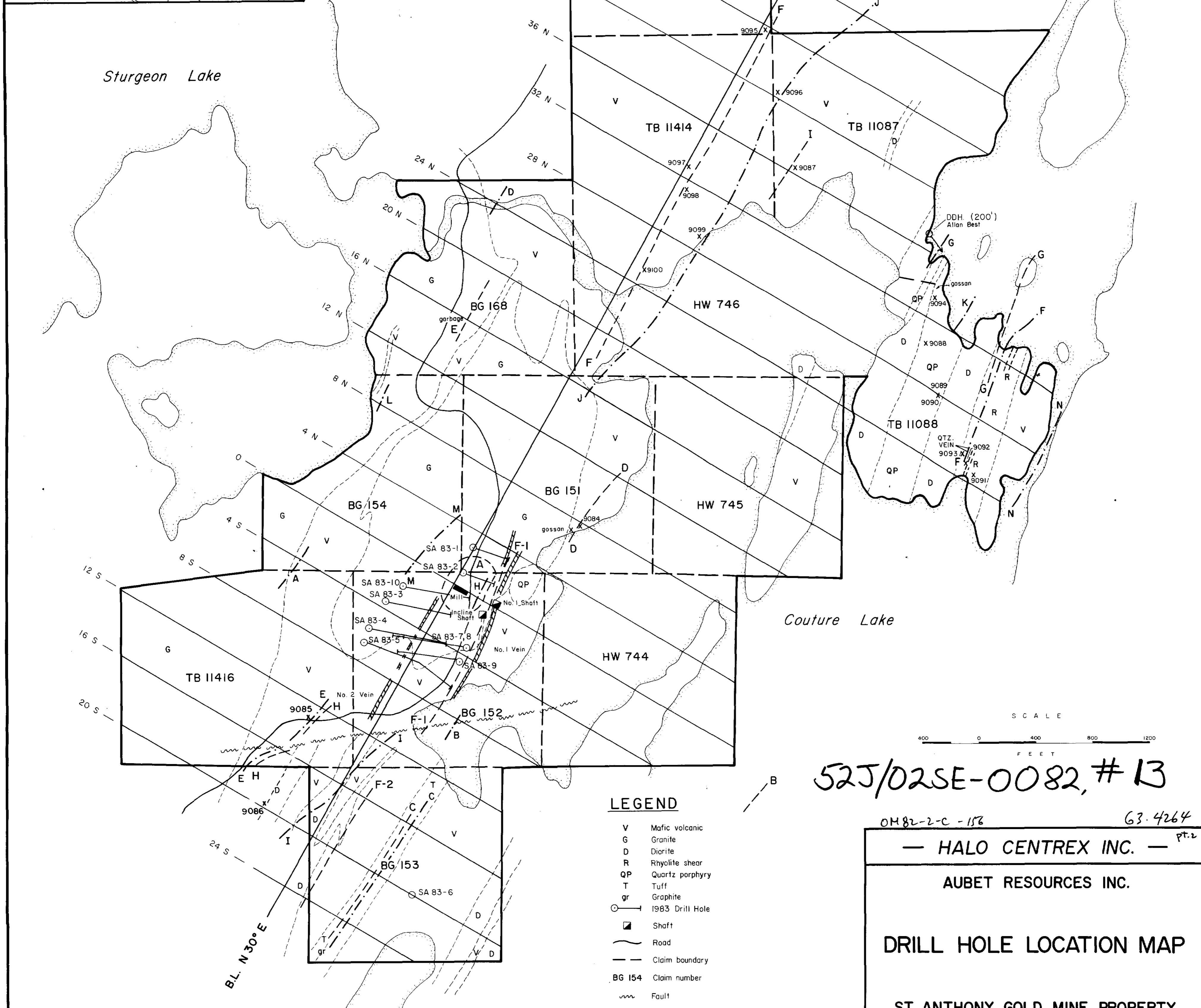
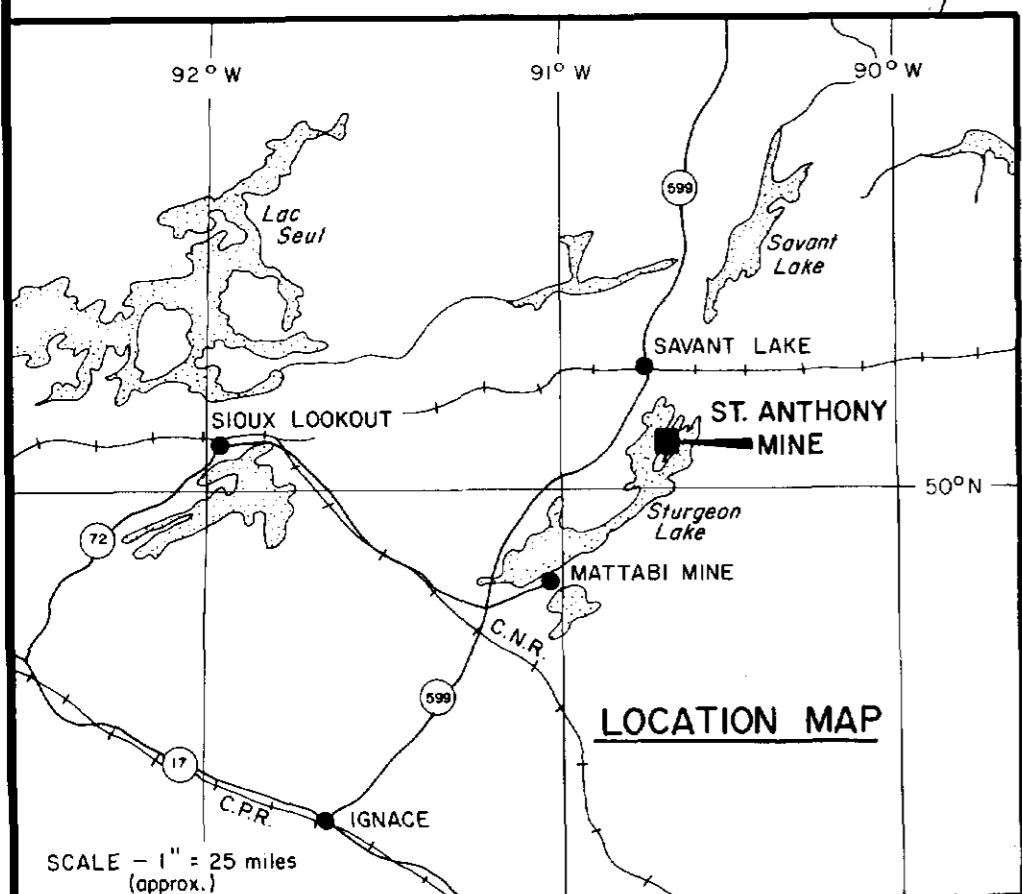


310

g.m.h. d.o.s.

SEPTEMBER, 1981

MAP No. 3



LEGEND

- V Mafic volcanic
- G Granite
- D Diorite
- R Rhyolite shear
- QP Quartz porphyry
- T Tuff
- gr Graphite
- 1983 Drill Hole
- Shaft
- Road
- - - Claim boundary
- BG 154 Claim number
- ~ Fault
- A - - - VLF Conductor axis
- C - - - Magnetic anomaly axis

525/02SE-0082, # 13

OM 82-2-C - 156 63.4264

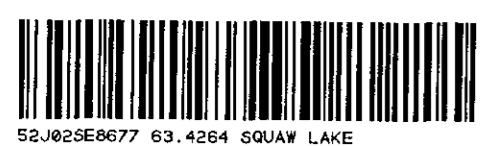
— HALO CENTREX INC. — ^{pt. 2}

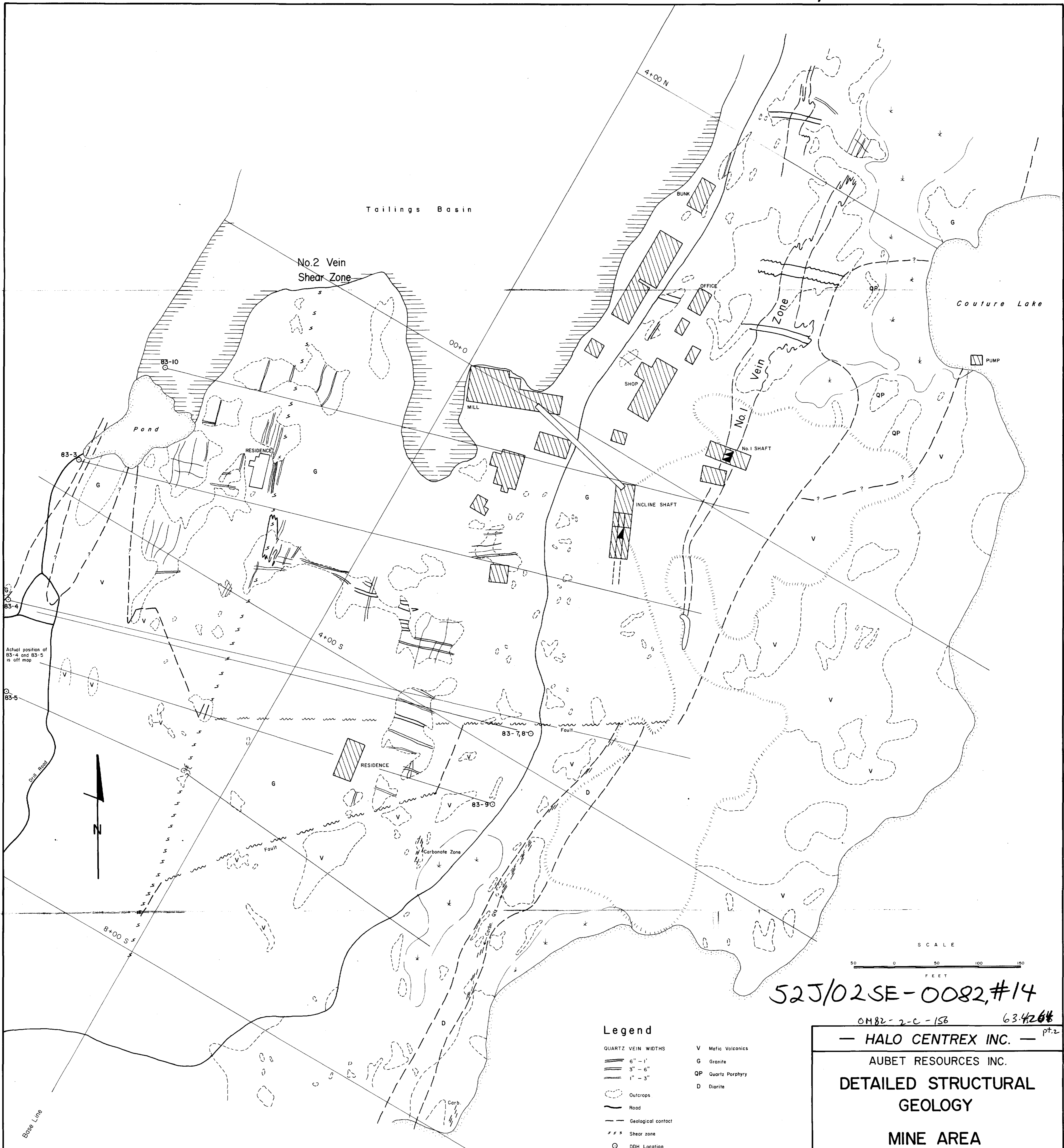
AUBET RESOURCES INC.

DRILL HOLE LOCATION MAP

ST. ANTHONY GOLD MINE PROPERTY

DRAWN BY D. Kelsall	SCALE 1 inch = 400 feet	N.T.S. 52-J-2	PLATE NO. I.
------------------------	----------------------------	------------------	-----------------





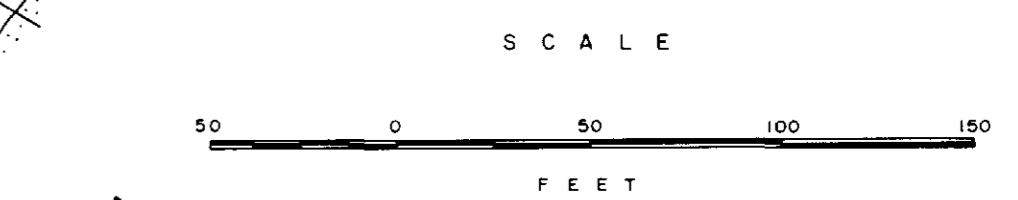
Actual position of B3-4 and B3-5 is off map

52J/02SE-0082, #14

OM82-2-C-156 63.4268

Legend

- | | |
|----------------------|--------------------|
| QUARTZ VEIN WIDTHS | V Mafic Volcanics |
| 6" - 1' | G Granite |
| 3" - 6" | QP Quartz Porphyry |
| 1" - 3" | D Diorite |
| ○ Outcrops | |
| — Road | |
| — Geological contact | |
| --- Shear zone | |
| ○ DDH Location | |



— HALO CENTREX INC. — ^{pt. 2}

AUBET RESOURCES INC.

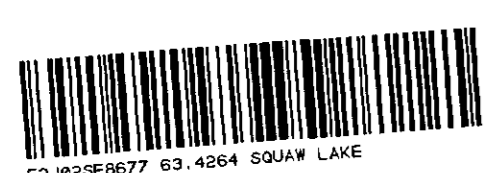
DETAILED STRUCTURAL GEOLOGY

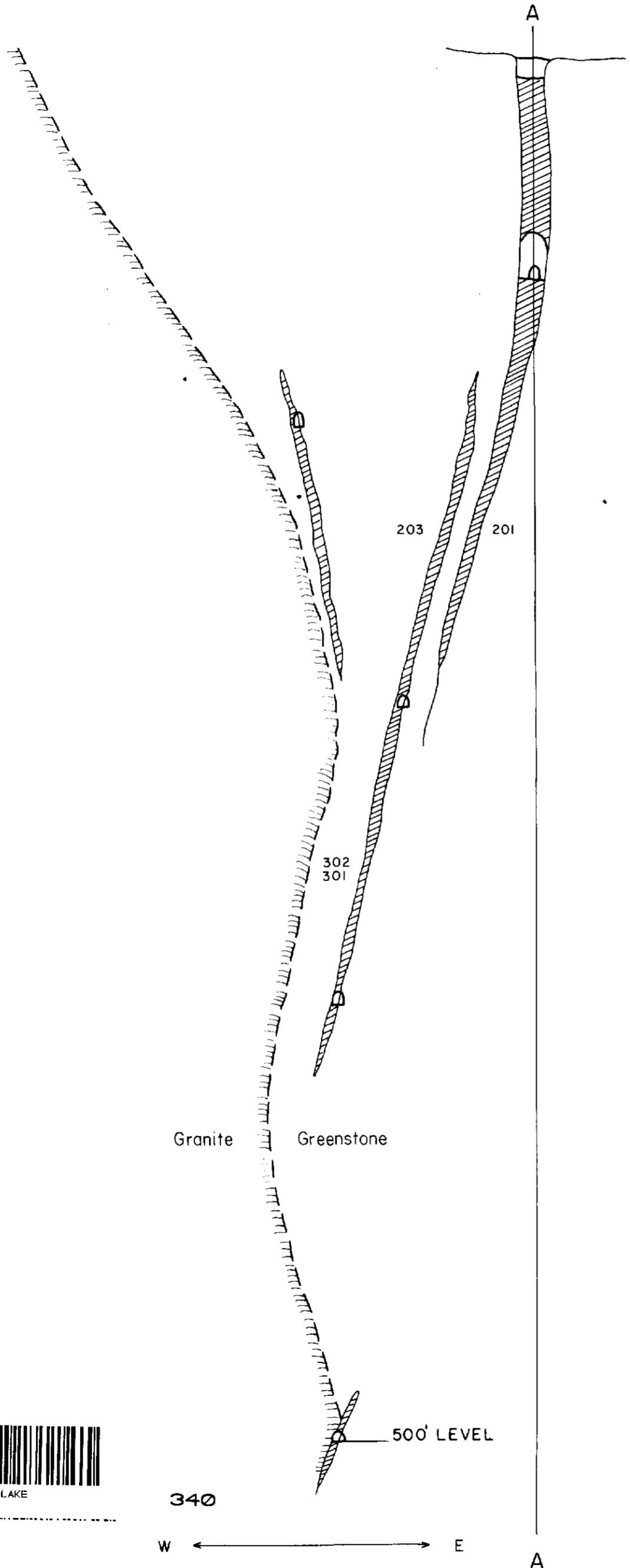
MINE AREA

ST. ANTHONY GOLD MINE PROPERTY

Map adapted from report by G.M. Hogg & Ass. Ltd.
Geological interpretation by: J.B. Hinzer (1983)

WORK BY: J.B. Hinzer J.W. Gill	DRAWN BY: D. Kelsall	SCALE: 1" = 50 feet	N.T.S. 52-J-2	PLATE NO. 2A
--------------------------------------	-------------------------	---------------------	------------------	-----------------

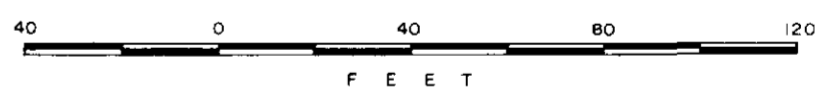




————— Couture Lake Level

52J/02SE-0082, #15

S C A L E



OM 82-2-c-156

63-4264

— HALO CENTREX INC. — ^{pt. 2}

AUBET RESOURCES INC.

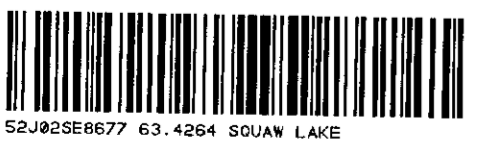
SECTION PLAN
SECTION A

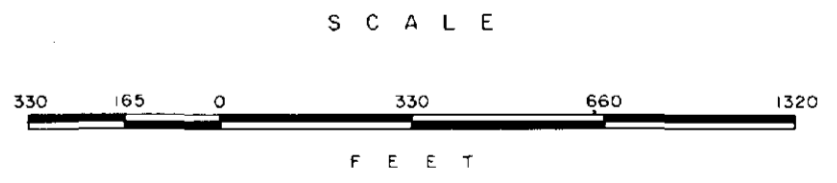
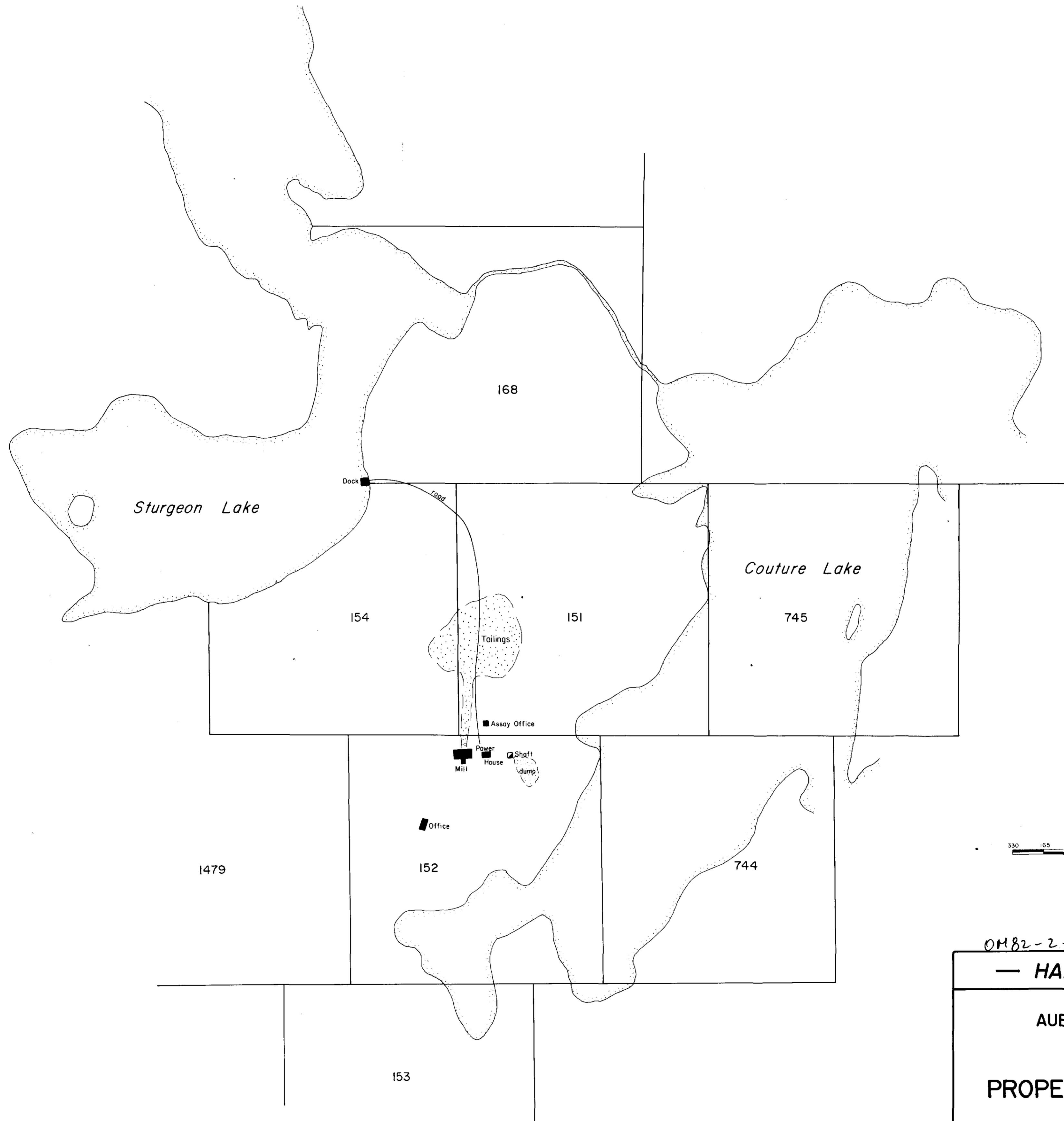
ST. ANTHONY GOLD MINE PROPERTY

DRAWN BY: D. Kelsall

SCALE: 1" = 40'

PLATE NO. 2B





OM82-2-C-156 63.42 ~~64~~ pt. 2
— HALO CENTREX INC. —

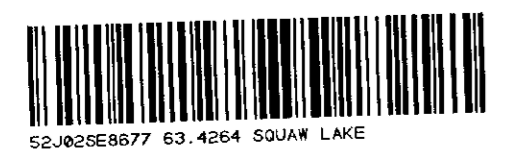
AUBET RESOURCES INC.

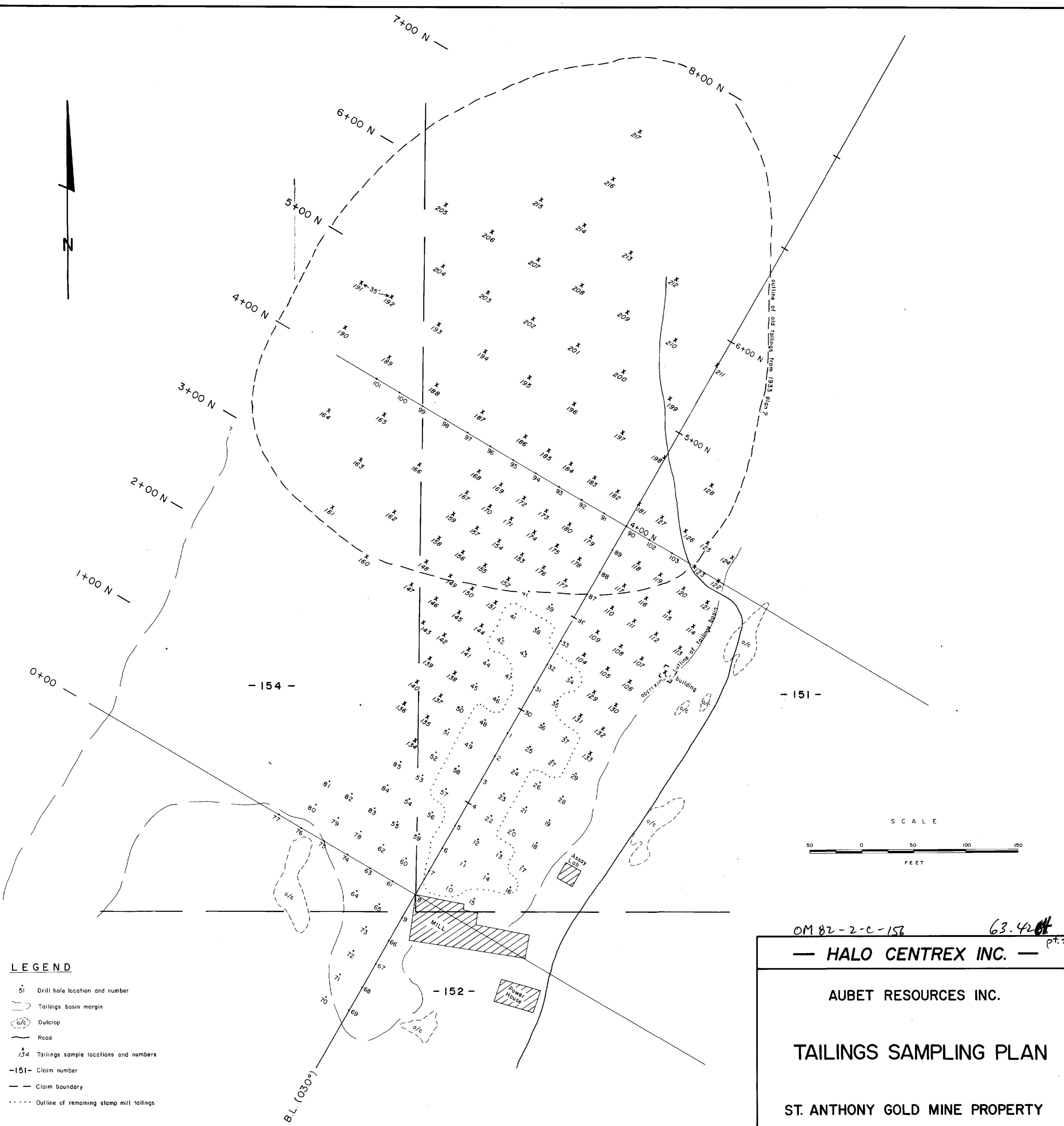
PROPERTY SKETCH PLAN

CIRCA 1929
ST. ANTHONY GOLD MINE PROPERTY

DRAWN BY D. Kelsall	SCALE 1" = 330' (1" = 5 ch.)	N.T.S. 52-J-2-SE	PLATE NO. 3A
------------------------	---------------------------------	---------------------	-----------------

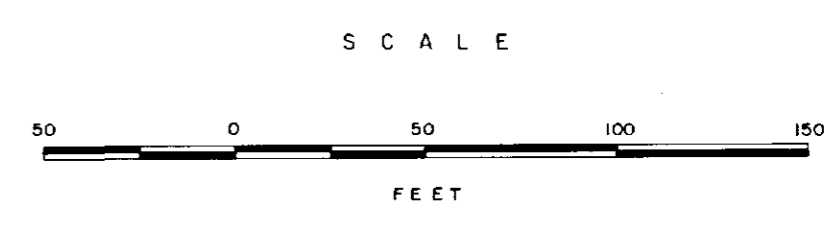
52J/02SE-0082, #16





LEGEND

- 51 Drill hole location and number
- Tailings basin margin
- o/c Outcrop
- Road
- 134 Tailings sample locations and numbers
- 151- Claim number
- - - Claim boundary
- Outline of remaining stamp mill tailings



OM 82-2-C-156 63.42 pt.2
— HALO CENTREX INC. —

AUBET RESOURCES INC.

TAILINGS SAMPLING PLAN

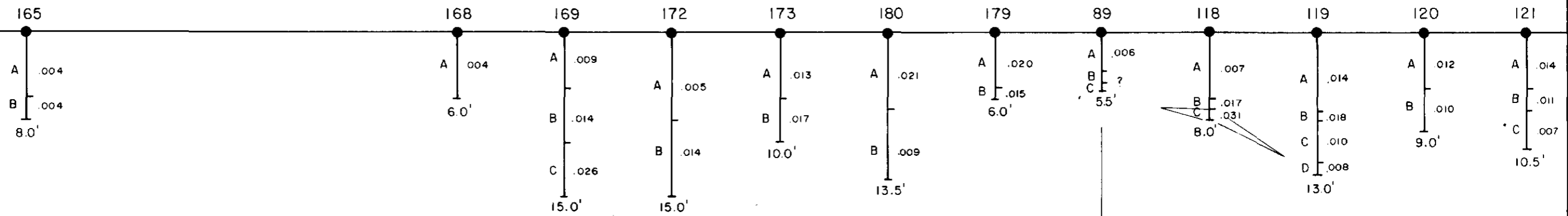
ST. ANTHONY GOLD MINE PROPERTY

52J/02SE-0082, # 17

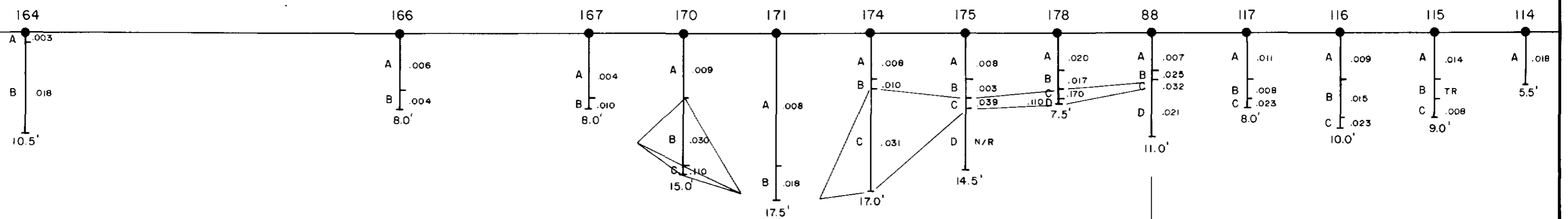


DRAWN BY D. Kelsall	SCALE 1 in. = 50 ft.	N.T.S. 52-J-2	PLATE NO. 3B
------------------------	-------------------------	------------------	-----------------

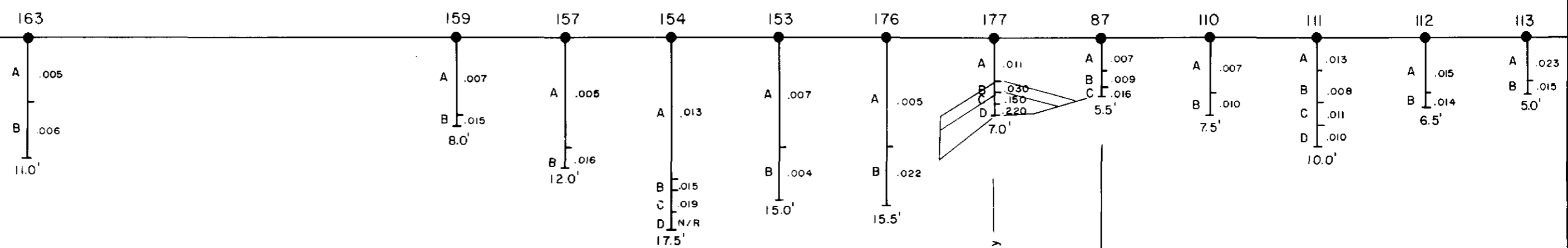
Section 3+75 N



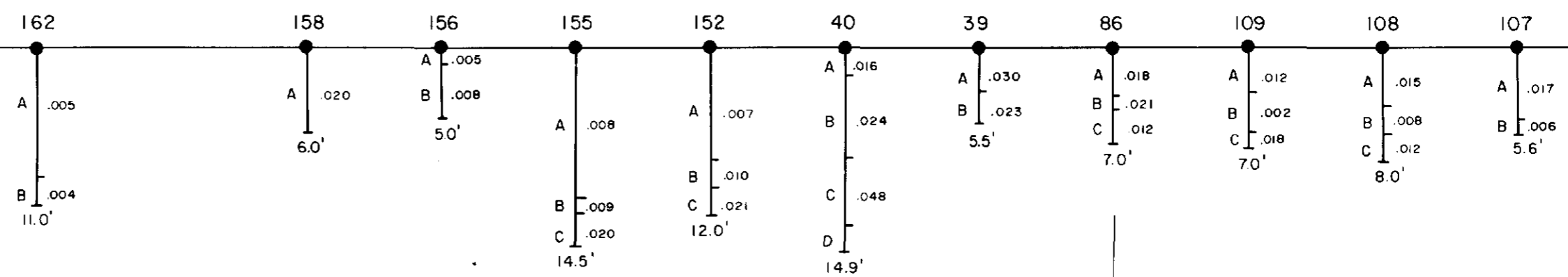
Section 3+50 N



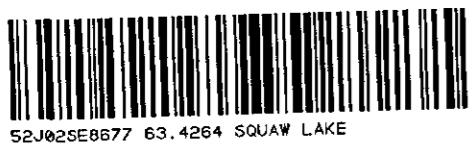
Section 3+25 N



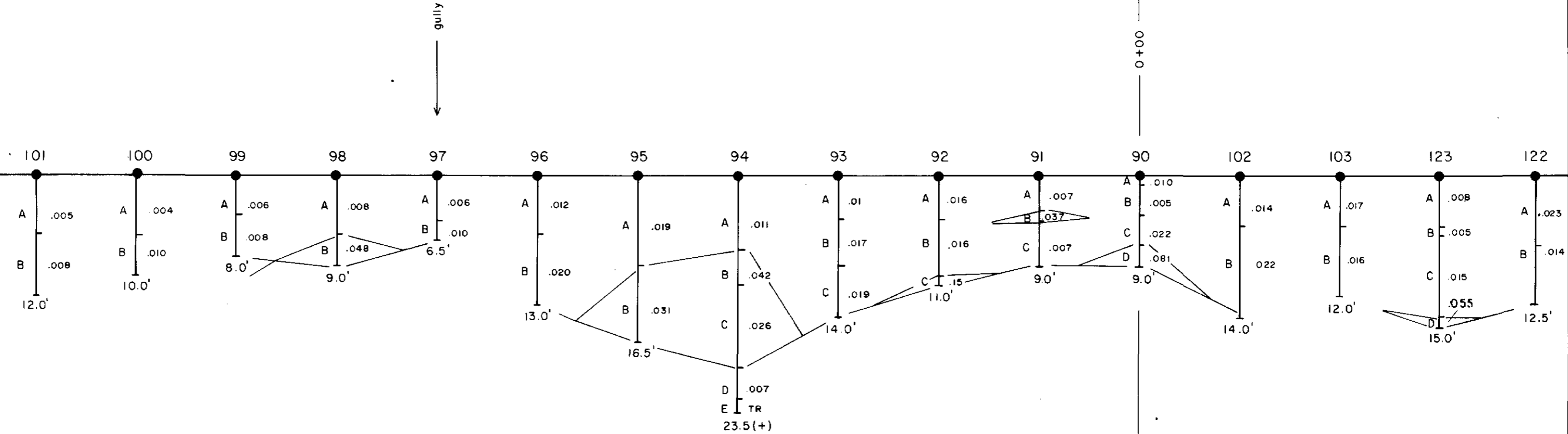
Section 3+00 N



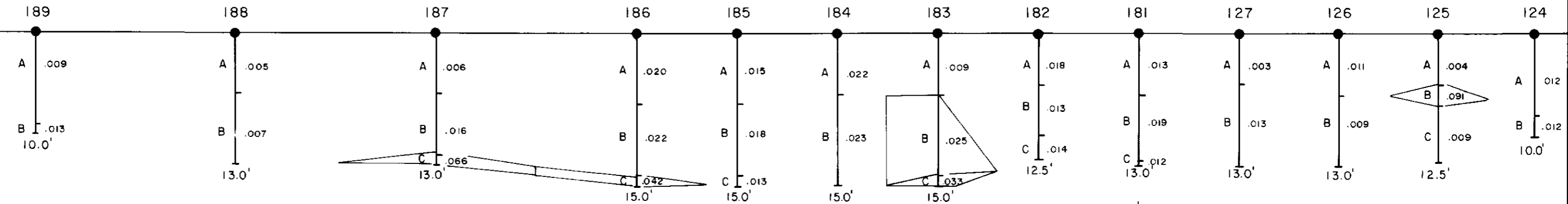
525/02SE-0082, #18



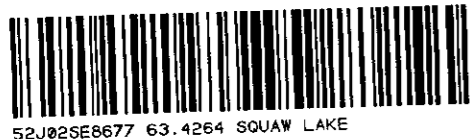
Section 4+00 N

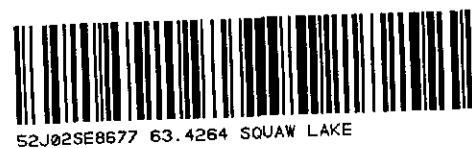
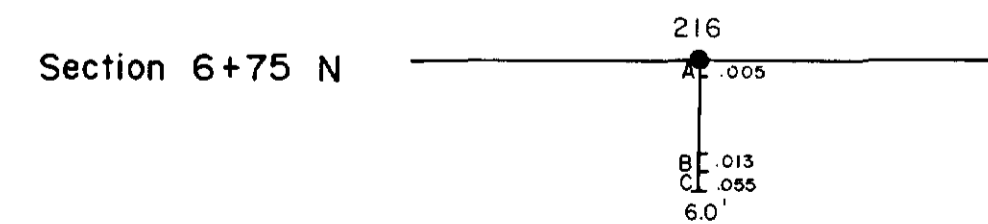
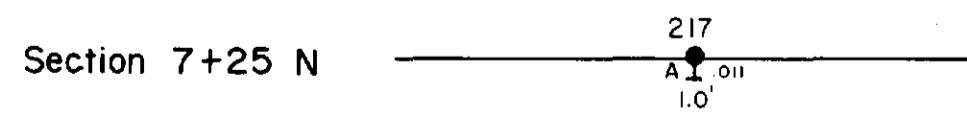
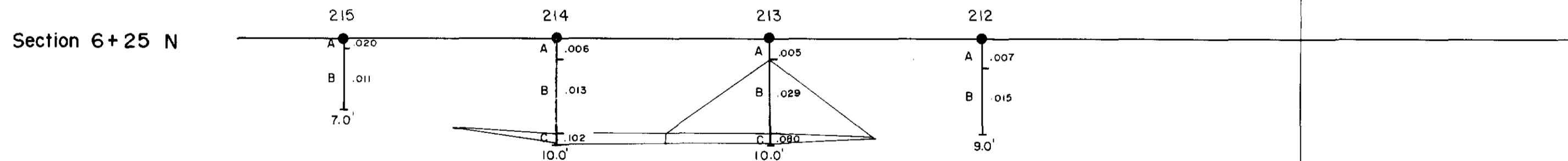
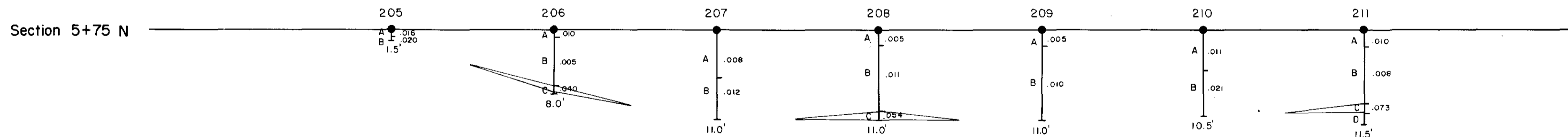
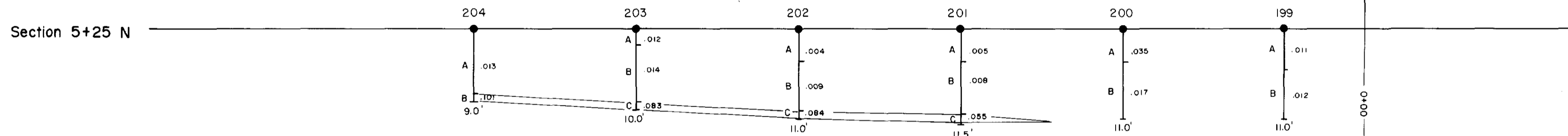
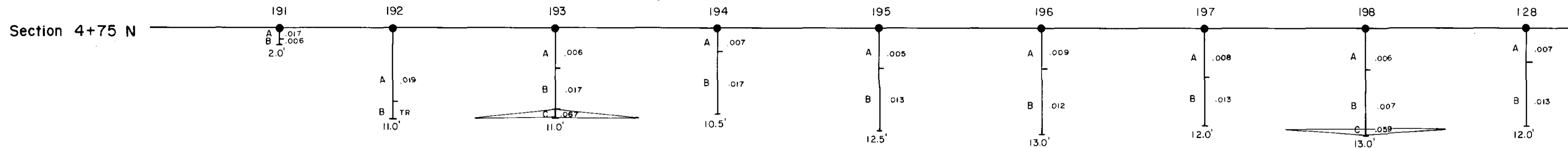


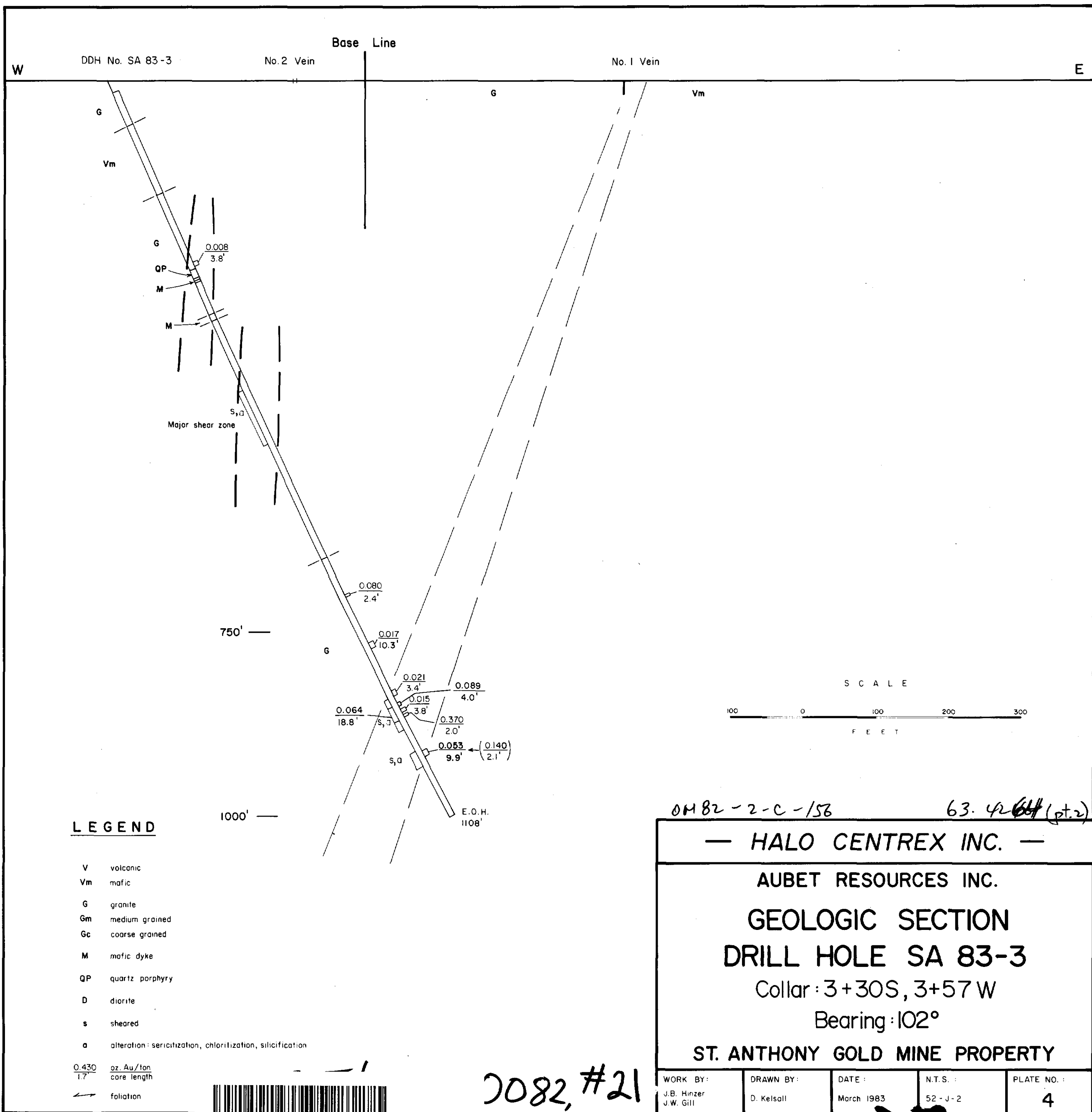
Section 4+25 N



52J/02SE-0082, # 19



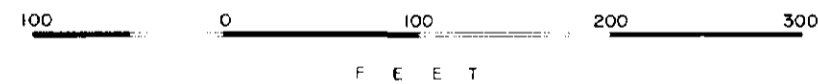
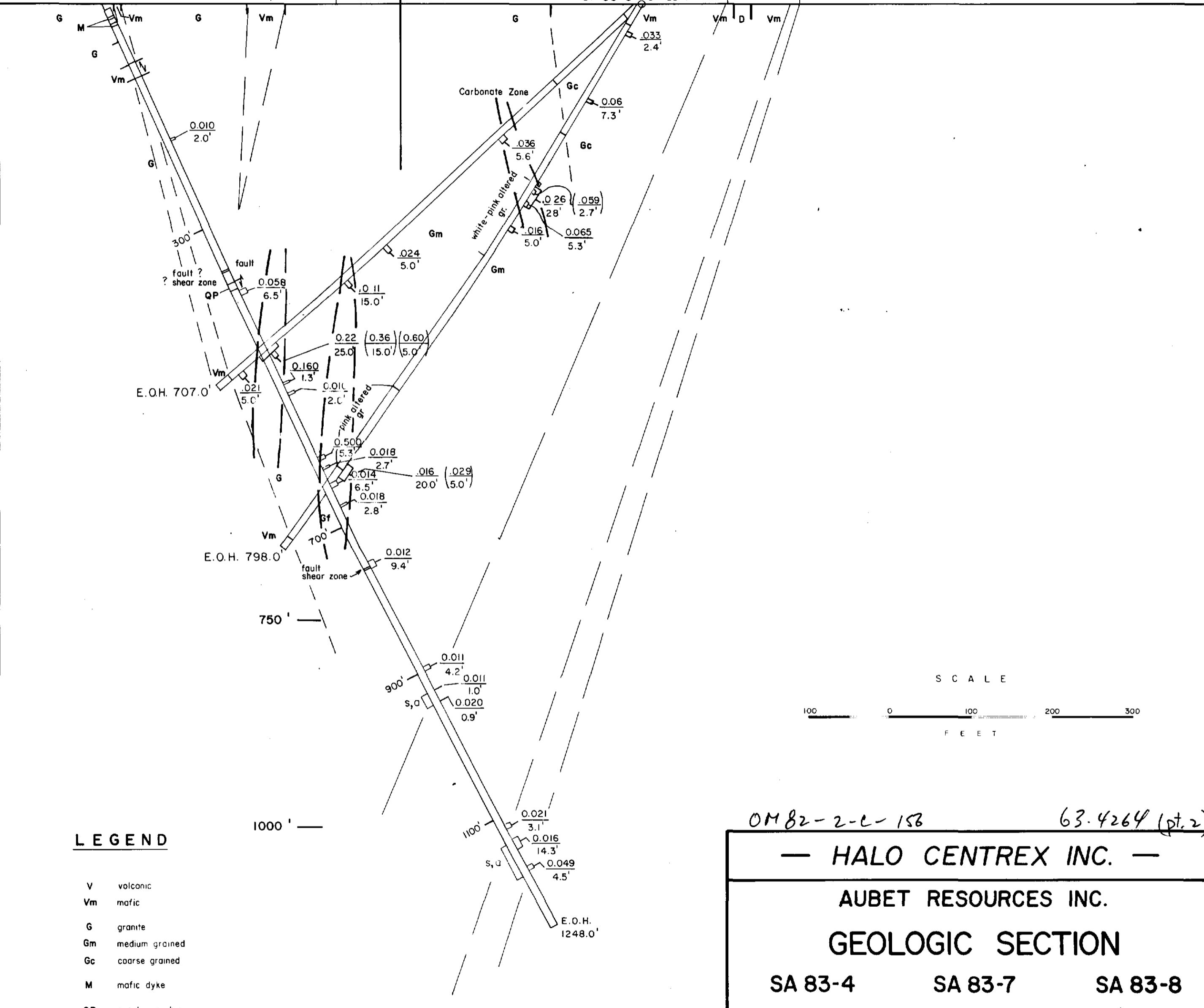




52J025E8677 63.4264 SQUAW LAKE

Base Line

W DDH No SA 83-4 No. 2 Vein SA 83-8 SA 83-7 shear No. 1 Vein E



LEGEND

- V volcanic
- Vm mafic
- G granite
- Gm medium grained
- Gc coarse grained
- M mafic dyke
- QP quartz porphyry
- D diorite
- s sheared
- a alteration: sericitization, chloritization, silicification

0.430 oz. Au/ton
1.7' core length

foliation



52J025E8677 63.4264 SQUAW LAKE

OM 82-2-C-156

63.4264 (pt. 2)

— HALO CENTREX INC. —

AUBET RESOURCES INC.

GEOLOGIC SECTION

SA 83-4

SA 83-7

SA 83-8

5+52S, 3+70W 3+65S, 2+85E 3+65S, 2+85E

102°

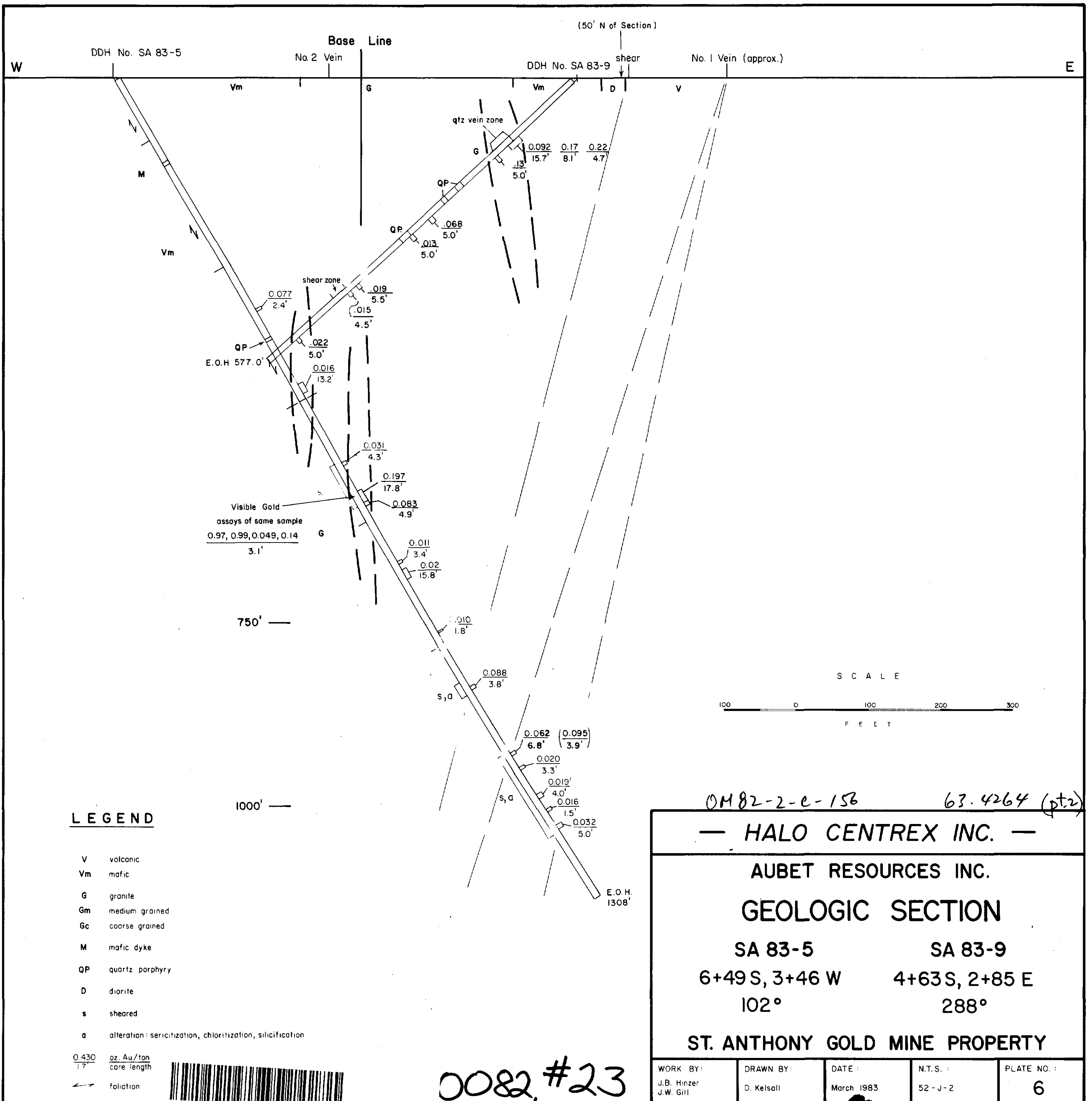
288°

288°

ST. ANTHONY GOLD MINE PROPERTY

WORK BY: J.B. Hinzler J.W. Gill	DRAWN BY: D. Kelsall	DATE: March 1983	N.T.S.: 52-J-2	PLATE NO.: 5
---------------------------------------	-------------------------	---------------------	-------------------	-----------------

-0082, #22



LEGEND

- V volcanic
- Vm mafic
- G granite
- Gm medium grained
- Gc coarse grained
- M mafic dyke
- QP quartz porphyry
- D diorite
- s sheared
- a alteration: sericitization, chloritization, silicification

0.430 oz. Au/ton
17' core length

← foliation



52J025E8677 63.4264 SQUAW LAKE

Base Line

W

E

DDH SA 83-10

2 Vein

1 Vein

G
Vm
0.16
4.7

G

Vm
QP

Vm

0.13
5.0

Vm

D

Vm

D

Vm

D

Vm

D

G

qv

0.14
7.0

0.10
7.0

750'

qv shr - bx

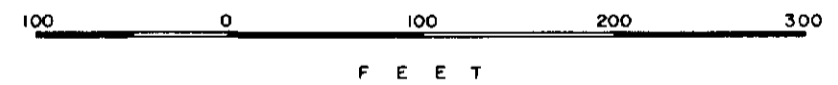
qv
shr

0.12
7.5

E.O.H. 1008.0'

1000'

SCALE



LEGEND

- V volcanic
- Vm mafic
- G granite
- Gm medium grained
- Gc coarse grained
- M mafic dyke
- QP quartz porphyry
- D diorite
- s sheared
- a alteration: sericitization, chloritization, silicification

0.430 oz. Au/ton
1.7 core length

— foliation



52J02SE8677 63.4264 SQUAW LAKE

430

082, #24

0M 82-2-C-156

63.4264 (pt. 2)

— HALO CENTREX INC. —

AUBET RESOURCES INC.

GEOLOGIC SECTION

DRILL HOLE SA 83-10

Collar: 1+66S, 3+03 W

Bearing: 102°

ST. ANTHONY GOLD MINE PROPERTY

WORK BY: J.B. Hinzler J.W. Gill	DRAWN BY: D. Kelsall	DATE: July 1983	N.T.S. 52-J-2	PLATE NO. 8
---------------------------------------	-------------------------	--------------------	------------------	----------------