GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL AND DIAMOND DRILLING REPORT

EXPLORATION LICENSE #1535

COUNTRY HARBOUR, GUYSBOROUGH COUNTY

PROVINCE OF NOVA SCOTIA

434153

MAP REFERENCE	TRACT	CLAIM
11-F-5-B	3	D,E,M,N,
11-F-5-B	4	A,H,J,Q,K,P
11-F-5-B	21	A,B
11-F-5-B	22	D

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SUBMITTED BY: E. HARRINGTON, B.Sc.,
B. KELLY, B.Sc.,
FOR PARAGON EXPLORATION LTD.
DATE: April 26, 1981

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1. Introduction

The work comprising this report was carried out by Paragon Exploration Limited, (21st Floor, 80 Richmond St., W., Toronto, Ontario) over the period of March 9, 1980 to March 9, 1981.

a) Location and Access

The Country Harbour property is situated in the central part of Guysborough County, Nova Scotia, north of the Country Harbour River. The property lies 10 Km southeast of the Country Harbour Cross Roads on paved Highway #316. (Fig. 1).

Exploration License #1535 concists of 13 claims which are situated north of paved Highway #316. (Fig. 2).

The property is bisected north to south by Johnson Brook with a parellel woods road. The woods road allows excellent access to the property when using a 4-wheel drive vehicle.

b) Physiography

The property is bisected north to south by the southerly draining Johnson Brook. To the east and west the topography slopes upwards to a maximum of 250 feet above the level of the Brook. Overall the maximum height above sea level (Country Harbour) is approximately 450 feet.

Vegetation is predominately spruce, fir and alder with occasional stands of maple.

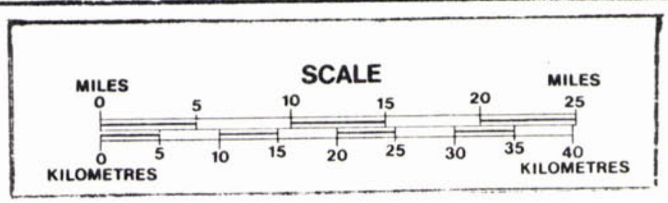

Fig 1 - PROPERTY LOCATION MAP

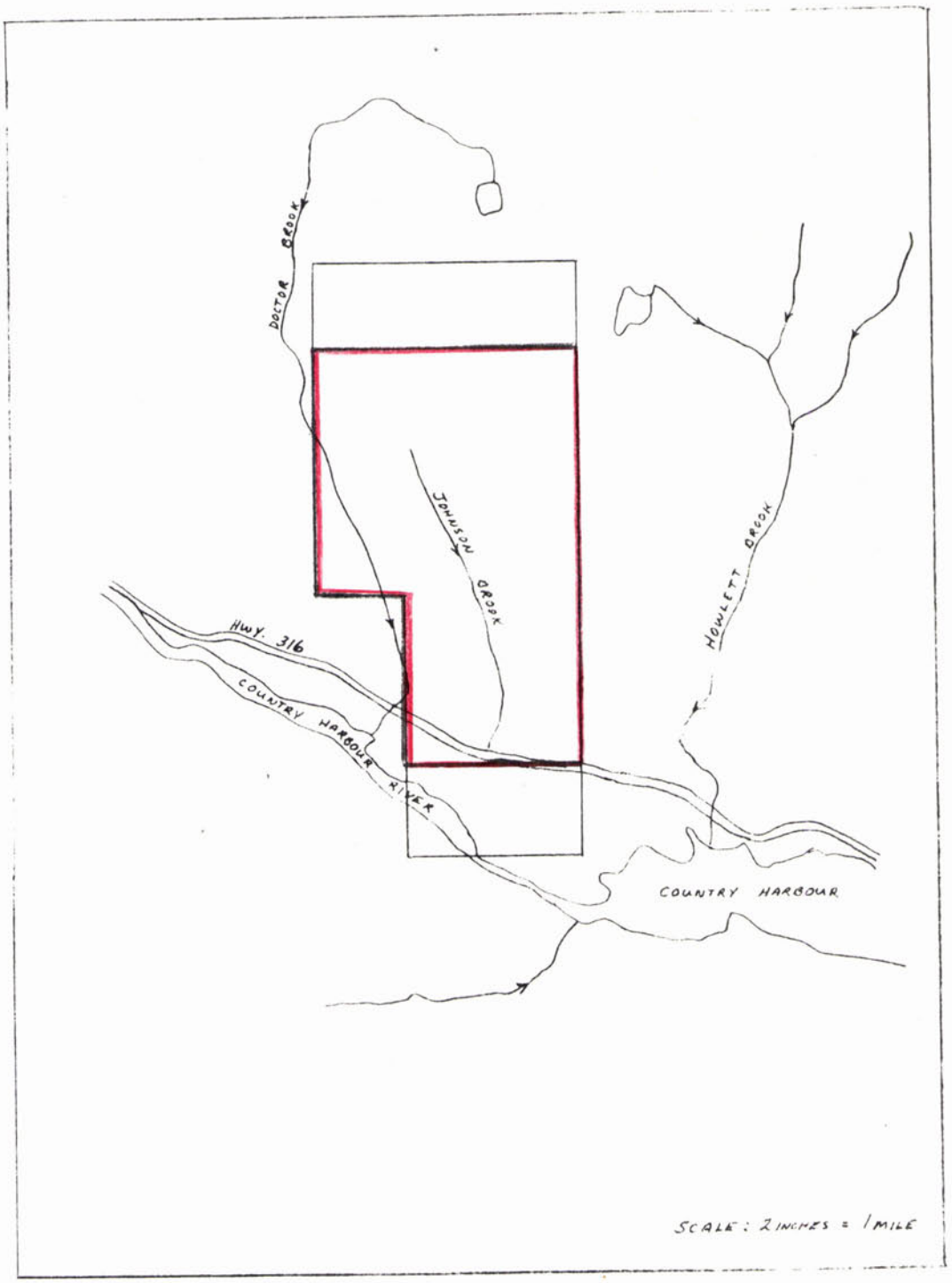

FIG 2 EXPLORATION LICENCE LOCATION

c) Previous Work

Gold discovery in the Country Harbour Area is attributed to J. Fraser in Sept. 1861, in the Johnson Brook area of the property. Gold mining developments preceded and peaked in the early 1890's with the Antigonish Mining Co. and the Country Harbour Co. following rich leads in the Johnson Brook Area. Tonnage crushed by the Antigonish Cold Mining, was 13,432 tons yielding 4,199.3 ounces for an ore grade of 0.317 oz/per ton, over the period 1890-1900. The latter, Country Harbour Gold Mining Co. crushed 6,198 tons containing 1,967.7 ounces of gold or 0.316 ounces per ton, for the same period. The operations resumed until the early 1900's when lack of aurifeous veins and funds closed the workings down.

Developments resumed intermitting in the late twenties and thirties as the old workings were reopened and expanded. The Stuart Shaft and the Blair Shaft were reopened during this period. The Stuart Shaft, part of the 150 tons of ore milled in 1934. The yield for that year was 11.57 oz. of gold. Work in the Blair Adit consisted of bulk sampling. This sampling was concentrated on the known intersections of the Prince and other mineralized belts.

Other activities during the thirties were the re-crushing of mine dumps. In 1936, A. E. Hudson crushed 9 tons of the dump from the old Lawson Shaft and recovered 2.5 ounces of gold. The re-crushing and other developments ceased by the early 1940's. This was mostly due to lack of financing. Work in the Johnson Brook area recently has been minimal.

d) Claim Status

Paragon Exploration Limited is the license holder of Exploration License #1535.

MAP REFERENCE	TRACT #	CLAIM	RENEWEL DATE
11-F-5-B	3	D,E,M,N	March 9,1980
11-F-5-B	4	A,H,J,Q,K,P	March 9,1980
11-F-5-B	21	A,B	March 9,1980
11-F-5-B	22	D	March 9,1980

2. Grid

A grid of about 54,600 line-feet, consisting of compassed, chained and flagged lines was established with approximately 43,000 line-feet located with in License area #1535.

3. Airborne Magnetometic Survey

The airborne magnetometer survey was carried out by Sander Geophysics Ltd., Kanata, Ontario in May 1980.

The following is an excerpt of the results and conclusions from the Sander Geophysics report which appears in its entirety in Appendix I. (Map 6).

"The results of the magnetic survey are shown on the aeromagnetic map of said area. This map shows a major magnetic feature interrupting the magbetically quiet surrounding area. This situation suggests that the magnetic anomalies are due to a thin linear structure striking N15°W. All the anomalies do not lie exactly on the same trend, indicating that the body is not homogenous. A possible model for the body is that of an intrusive dyke that has varying concentrations of magnetite throughout . Another possibility is that this

magnetic zone represents a mineralized fracture zone. In such a zone, it could be expected that the concentrations of magnetite would not be entirely consistent throughout its lenghh. Secondly fractures branching off the main fault would account for the secondary strike direction (northwest) noted at the centre of the map.

The southern-most anomaly also seems to have the same general trend of northwest. The anomaly may be of interest as a possible unexplored zone of mineralization. Its location however, makes it a difficult target.

The mineralized zone in this area appears to be very limited in a real extent and does not extend any further than the mapped area."

4. Geochemical Surveys

a) A humus sample survey was undertaken on the grid at the Country Harbour property. The sample were collected by hand at an interval of 50 feet whenever possible. The completed survey produced 432 samples. The samples were sent to Bondar Clegg, 764 Belfast Road, Ottawa, Ontario for analysis using the FA-AA method. Gold values were returned in parts per billion (ppb). (Appendix II).

(i) Results

The sample results for the grid shows the background to be <5-20 ppb. The higher anomalies samples (all values >140 ppb) are in the SW portion of the grid. More specifically between lines 32+00N and 48+00N to the west of

the baseline. Here several local anomalies are found on each grid line. This area of individual anomalies shows a weak trend to the NW. This trend is similar to the geological strike for the area. Other less significant values ranging from 20-140 ppb gave the same general trend over the grid.

To the east and west the anomalous sample points are discontineous and end abruptly at the next 50 foot sample. (Map I).

b) "B" Horizon Soil Sampling

A "B" horizon soil sample survey for Sn was carried out on the Country Harbour property. The soil samples were taken at an interval of 100 feet whenever possible. A total of 387 samples were collected. The samples were forwarded to X-ray Assay Laboratories Ltd., Don Mills, Ontario, for Emmission Spectroscopy analysis. The Sn values returned were given in parts per million (ppm). (Appendix II).

(i) Results

The Sn values for the soil samples were generally weak and just within the detectable limit of 3.0 ppm. The higher Sn values ranged from 5.0 ppm to a high of 50.0 ppm at 46+00N, 1+00W. (Map 2.). Most of the values are found within 100 feetof Johnson Brook on the shoreline between lines 36+00N and 50+00N. The individual anomalies along Johnson Brook are spotty and discontinuous between sample locations.

c) Leaf Sampling

A leaf sampling survey to test for Au, As and W was undertaken on the Country Harbour grid. The grid was

sampled at 100 foot intervals whenever possible. The sample consisted of fallen leaf material. A total of 435 samples were taken. (Map 3).

The samples were forwarded to X-ray Assay Laboraties Ltd., Don Mills, Ontario for neutron activition (NA) analysis. The assays for Au were returned in parts per billion (ppb) and As & W in parts per million. (Appendix II).

All values for tungsten (W) were below the detectable limit of 1.0 ppm and require no further mention.

(i) Results

The Au values all range from <1.0-10.0 ppb with the exception of 79 ppb at 26+00N, 3+00E. The high value is likely due to contamination from the previous milling operations since it is located in a sandy area (possibly tailings) along the course of an old flume.

Au values are consistant along the baseline between 18+00N to 26+00N and east for 4+oo feet on line 26+00N. Most of the values (2-9 ppb) occur along or within 4 + 00 feet of Johnson Brook on the grid.

The As values for the grid are between < 1 and 23 ppm with exception a sample point 26+00N, 3+00E where As was 2300 ppm coincident with the 79 ppb Au sample. Other weaker As highs (2-14 ppm) are consistent with Au values (2-9 ppb) in location along Johnson Brook. (Map 3).

d) Blair Adit Sampling

The mouth of the Blair Adit is located at 36+00N, 1+00W on the Country Harbour grid. The Adit extends 480.0 feet west intersecting extensions of the Little Prince, Prince leads and other lesser mineralized zones. To locate the zones in the adit, channel sampling was undertaken. Two surveys were applied to test for gold mineralization.

The first survey sampled the north wall of the adit from the face to the intersection of the Prince lead using 5 foot chip samples (about 10/lb/sample). The second survey consisted of sampling just the quartz within the origionally marked 5.0 foot interval. Samples average 5.0 lbs.

Both lots of samples were sent to Atlantic Analytical Assay Labs, Debert, N.S., for analysis. Values were returned in oz. Au/ton. (Appendix II).

(i) Results

The results of the rock chip and quartz sampling in the Blair Adit revealed coincident high assay values in the areas of known mineralized zones and belts. The quartz vein assays returned the best values overall.

The rock chip samples clearly defined two of the six known gold mineralized zones in the area. One of these zones, belt No. 5, was defined by three samples over 15 feet. (Samples # 13, 14, 15). The highest value returned was sample #13 at 0.16 Au oz/ton over 5.0 feet. The assays for samples #14 and #15 were 0.01 and 0.02 respectively.

The other zone, the Prince belt, was defined by samples #52 and #54. These assays returned values of 0.03 and 0.01 Au oz/ton over 5.0 feet. Another assay of 0.16 Au oz/ton was from sample #42. The sample interval lies between mineralized belts No. 2 and No. 3. The assay extends over 5.0 feet.

The quartz veins sampling generally proved more useful in returning better assay values than the rock chip samples. The quartz assays define all of the mineralized zones and belts in the adit with the exception of belts No. 4 and the Prince. (These two exceptions may reflect little or no quartz for sampling in the respective areas). The quartz assays range from 0.01-0.65 in the known mineralized zones. The high assay of 0.65 Au oz/ton (sample #14) was returned in the area of belt No. 5. Sample #15, immediate to #14, returned an assay of 0.07 Au oz/ton over 5.0 feet. The other mineralized belt's in the adit are shown by lesser assay values. (Map 4).

e) Rock Sampling

A rock sample survey was carried out coincident with field mapping survey's on the property. Numerous exposures of quartz veining in the Goldenville greywacke and schist were sampled along traverses. Samples were taken from outcrop, trenches and mine dumps in the area. Thirty-three specimens were collected The samples were forwarded to Atlantic Analytical Service Ltd., Debert, N. S., and Bourlamaque Assay Laboratories Ltd., Val D'Or, Quebec for analysis. Appendix I

i) Results

Rock sample assays varied over the property. Samples from outcrops and open cuts local to the Antigonish and Stuart workings yielding values of 0.01 oz. Au/ton. These sample points are located roughly along strike with plotted assay values from diamond drill holes in the respective areas. (MAP 5).

Another assay of 0.02 Au. oz/ton was returned from a mine dump located 600' northwest of the Robertson Shaft. A value of 0.025 oz/ton was recovered from samples of the 350' tranch southwest of the Lawson Shaft. Other samples taken from the trench returned trace results.

To summarize, the rock samples survey did not delineate a strong Au anomaly. The assays, ranging from trace to 0.025 oz. Au/ton, are scattered and discontinuous regionally on the grid. Most of the high assay values are local to the old workings. Further sampling on the grid may give continuity to these local anomalies.

5. Geology

The geology of the Country Harbour property is characterized by the steeply dipping strata (possibly isoclinally folded) of the Meguma Group. The Meguma Group is composed of the younger Halifax and the older Goldenville Formation. On the property the aurifeous Goldenville Formation is bounded on the west by the over-lying Halifax and on the east by a granite body of unknown size. The granite contact is east of the north-south baseline on the property, intersecting the baseline in the area around 34+00N. (Map 5).

The Country Harbour property is bisected by Johnson Brook and is underlain by quartzites, greywacke and schists of the Goldenville Formation. To the west, along Doctor Brook, lies andalusite and staurolite bearing slates of the over-lying Halifax Formation. These rocks have been swung from their original east-west strike to a north-south strike by the combined effects of the major Country Harbour fault (left-handed displacement of approximately 1-½ miles) and the granite batholiths of the district(Cameron 1938).

The area has been faulted both regionaly and locally. Cameron (1938) postulated two fault systems intersecting at 30° to form wedge shaped blocks. These systems are of the different ages with the oldest being associated with the major Country Harbour fault (ie: left-handed) with an east-west strike. The youngest system is a right-handed and strikes in a more northwesterly-southeasterly direction. These fault systems are generally of low displacement and do not greatly disturb the vein structure. Both systems appear to be due to compression with the forces coming from the north-east and north-west respectively. This compression is caused predominately by the intrusion of the surrounding granite. Being the stronger of the two, the system which mirrors the Country Harbour fault is likely the cause of the abrupt cessation of mineralization south of the Blair Adit. The fault systems likely act as conduits for the numerous

granite intrusions/dykes in the adit area.

In addition to the cross-faulting there has been movement along the bedding planes causing corrigations in the rock as well as the formation of rolls or barrels in the quartz veins. These corrigations have a roughly uniform 20° dip to the south.

The bedding of the Goldenville is best exposed along Johnson Brook. Here the formation strikes 346-350° NW and dips irregular at steep angles to the east and west. The plunge of the formation is to the south at 20°. (Cameron 1938).

The auriferous quartz veining in the Johnson Brook area are of similar attitude as the bedding. The lateral extent of the veining is in zones of 1.0 - 4.0 feet. The extent along strike is hundreds of feet being offset irragularly by left-hand faults. The purpose of the diamond drill program carried out by Paragon Explorations Ltd was to test varies areas of previously worked quartz veins for gold mineralization. The program consisted of 8 AQ holes (COHA 2 to 9) for a total of 2531.5 feet. (Table 1).

COUNTRY HARBOUR DRILL HOLE RECORD

HOLE #	COORDINATES ON COUNTRY HARBOUR GRID	PURPOSE	DEPTH (FEET)
COHA-2	40+88N, 9+00W	test for Au mineralization under Lawson Shaft (Lawson Belt)	480.5
COHA-3	38+00N, 6+50W	test Prince, Little Prince belts and other mineralization intersected in the Blair Adit	504.0
COHA-4	45+50N, 2+00W	test under Antigonish Workings (Mason Belt) and other mineralization to the west	346.0
COHA-5	54+00N, 7+50W	test for mineralization under John L. Shaft	149.0
COHA-6	58+00N, 8+20W	test Au geochemical anomaly @58+00N, 8+50W	152.0
COHA-7	63+40N, 8+40W	test unknown workings and Au geochemical anomaly	288.0
COHA-8	67+10N, 6+40W	to test under Robertson Shaft for Au mineralization	285.0
COHA-9	53+63N, 5+63W	to test for Au mineralization under Stuart Shaft	327.0

Table 1. Paragon Explorations Ltd., Diamond Drill hole summary.

5. Geology of the Drilling Program

The diamond drilling undertaken by Paragon Explorations Ltd., through Dixon Diamond Drilling, Bathrust, New Bruinswick intersected a) greywacke and b) biotite-muscovite ± seriaite schist of the Goldenville formation and c) quartz veining. The rock types, logged in the drill record, are summerized below:

a) greywacke - The greywache is a light to dark-grey, massive, and ranges from 1.0-63.0 feet in core sections. The dark-grey greywacke is weakly metamorphosed, occassional to phyllite, over the zones. Foliation is in the form of lineated biotites. The foliation dips steeply to the east at 80-90° although steep dips the west are not uncommon. The light-grey greywacke is more massive than the dark greywacke. The light greywacke exhibits little metamorphic texture and is commonly more silicified. Large zones of interbedded light and dark greywacke are common in core sections. The lithologic contacts between the greywacke are gradational.

The greywacke is regularly brecciated with associated silification and chloritization. The breccation is normally weak extending over 1.0-2.0 feet sections in core length. Tight brownish calcareous quartz and calcite stringers separate the greywacke into 0.5-1.0" size fragments. The greywacke in this breccia zones is silicified and the rock matrix is chloritized. The color of the greywacke is light-green.

Chloritized zones of the greywacke are also in the wall rock immediate to quartz stringering and intense quartz veining. These zones usually extend 1.0-2.0" around stringers and up to 6.0-8.0" of chloritized greywacke around the more massive 5.0-1.0' milky bull

quartz veins. The chloritized zones are often weakly silicified. Sulphides in the greywacke are commonly pyrite, pyrrhotite, arsenopyrite, and monor galena and chalcopyrite. Pyrite is the most common sulphide. Pyrite is common filling tight fractures, coating fractured and broken core surfaces, pyrite stringers intersecting quartz veins, and small euhedral grain filling quartz and calcite vugs.

Pyrite is found in both the light and dark greywackes. Pyrrhotite mineralization is common to the darker more foliated greywackes. The mineral occurs in small grainy blebs and thin stringers through the greywackes. Pyrite is often associated with the pyrrhotite. The sulphide arsenopyrite is found in core section as fine to course euhedral grains. The fine grain arsenopyrite is common to the less metamorphosed greywacke. In this light greywacke the arsenopyrite is associated with pyrite and pyrrhotite in small blebs and stringers local to 0.5-1.0" quartz veins. The course euhedral arsenopyrite characterizes the dark grey foliated greywacke and chloritized zones. The arsenopyrite grains in thses zones occasionally have of linear arrangement parellel to the foliation. Arsenopyrite is logged over the entire section in diamond drill holes COHA 5, COHA 8 and COHA 9.

Galena and chalcopyrite accurrance is spotty overall. The galena occurs as flakes coating broken core fractures with calcite, small euhedral crystals in tight calcite fractures, and as small specks in calc silicate veins. Chalcopyrite mineralization was only recorded in diamond drill hole COHA 9. The chalcopyrite appears with pyrite in small grainy blebs in the greywacke and thin quartz veins.

Generally the sulphides comprise <1% of the rock volume.

b) The biotite ± muscovite sericite schist, ~~muscovite~~ is interbedded with greywacke through drill holes COHA 2 to COHA 9. The schist is grey to black, exhibiting moderate to good foliation dipping at 80-90° east. The schist is commonly sheared. In the shear zones the schist is dark-grey, soft and slatey with fine to course grained, euhedual yellow staurolite and reddish garnets. The staurolite and garnets often show a linear arrangement parellel to the foliation of the schist. Fault gouge and irregular calcite stringering are common to the sheared zones. Sulphides occuring in the schist are course grain arsenopyrite with fine stringers and blebs of pyrite, pyrite-pyrrotite.

Some schist is weakly brecciated by massive quartz veins. The schist is likely local greywacke that has been metamorphased and chloritized by thick bull quartz veining. The schist in the brecciated zones is light-green, soft and commonly mineralized by pyrite and minor scattered arsenopyrite. The percentage of sulphides per hole in the schist numbers < 1%.

c) Quartz Veining: Two types of quartz veining can be recognized at Country Harbour. The quartz veins are distinguished on the color of the quartz and the thickness of the quartz in core section. All veins fill cracks along the bedding planes of the strata and are coincidently steeply dipping.

The two types of quartz veins are listed below according to thickness and description of quartz:

Thickness of Quartz	Description of Quartz
<0.5 inches	dark-grey grainy quartz. common to soft slaty schists and more foliated greywacke
>0.5 inches	light-grey to milky bull quartz, common to foliated and non-foliated massive greywackes.

The darker grey coloration to the quartz is a reflection of wall rock contamination particularly in thinner (< 0.5 inch) quartz veins. The grey coloration decreases with the thickness of the veining. Fragments of chloritic rock and biotite are contained in the thicker quartz veins. Most common sulphides are thin stringers and blebs of pyrite, pyrite-pyrrhotite, specks of arsenopyrite in the dark-grey veins to fine-course grain euhedual arsenopyrite, fine grain stringers of pyrite, minorstringers of pyrrhotite, and specks of galena in the thicker 1.0-5.0 foot sections of bull quartz. Zones of thick bull quartz veining have been logged in drill holes COHA 8 and COHA 9.

In general the thin greyish quartz veins are more consistently auriferous than the veins of bull quartz.

The association of Au mineralization to the quartz veining at Country Harbour resulted in all quartz veins intersected being sampled. The types of quartz sampled consisted of quartz filled fractures, quartz stringers, breccia and irregularly injected pneumatic quartz in the greywacke. The sample interval chosen for sampling reflected the thickness of the individual quartz veins ~~or veins~~. Most sample intervals were 1.0 foot for ≤0.5"-2.0" quartz veins. Larger quartz veins (>2.0") ranged in sampling from 2.0-

4.0 feet. All samples were test for Au using the method at Atlantic Analytical, Debert, Nova Scotia.

The Assay results for each hole are shown in the Appendix IV. Visible gold was encountered on in COHA 3 where the assay returned 2.44 oz. Au/ton.

7. Conclusions and Reccommendations

With the exception of the humus sampling program all of the geochemcial sampling returned dubious results at best. The humus sampling, however, indicated a generly anemalous zone, approximately 1½ miles in length striking, roughly northwest-southeast and varing to up to 2000 feet in width.

This large area encompasses the known workings but also indicates numerous spot highs where no work has been previously carried out. These new areas are of particular interest and selected areas should be trenched and sampled.

The diamond drilling program met with mixed success with some interesting intersections in holes COHA 3, 4 and 9. The V. G. (Visible Gold) with an assay of 2.44 oz/ton over 1.0 foot (core length) is roughly coincident with projections of the Prince lead and likely indicates further mineralization below the present workings. In general the intersections indicate unworked gold bearing veins in the area. The dip of the quartz barrels and rock corrigations (≈20° south) may be an indication of the orientation of the rake of the ore shoots on the property. A future drill program should be planned to check the postulated ore zone rake as well as new zones which are indicated by the proposed trenching program.

8. Cost Allocations

a) Geochemical Surveys

(i) Humus Sampling (Au)

Number of samples in area =400

Cost per sample = $4.75

Cost of analysis = $4.75 X 400 = # 1900.00

D. Reeves 1 day @ $55/day =$ 55.00

B. Hagell 4.5 days @ $66.67/day =$ 300.02

J. Desiosiers 4.days @$52.38/day=$ 209.52

E. Harrington 1.5days@$114.29/day$ 171.44

$2635.98 $2635.98

(ii) "B" Horizon Soils (Sn)

Number of samples in area =406

Cost per sample =$3.35

Cost of analysis = $3.35 X 406 = $1360.10

B. Hagell 7 days @ $66.67/day = $ 466.69

$1826.79 $1826.79

(iii) "Ao" Horizon (Leaves-Au, As, W)

Number of samples in area = 409

Cost per sample =$7.35

Cost of analysis = $7.35 X 409 = $3006.15

E. Harrington 7 days @ $114.29/day = $ 800.03

$3806.18 $3806.18

b) Grid

E. Harrington 6 days @ $114.29/day =$685.74

B. Hagell 6 days @ $ 66.67/day =$400.02

$1085.76 $1085.76

c) Mapping

E. Harrington 9.5 days @ $114.29/day =$1085.76

B. Hagell 9.5 days @ $ 66.67/day =$ 633.37

$1719.13 $1719.13

d) Airborne VLF

Total cost of survey =$2000.00

Pervious allocation =$ 786.20

$1213.80 $1213.80

e) Rock Assays

Number of samples = 33

Cost per sample =$8.50

Cost of Assay = $8.50 X 33 = $280.50

D. Reeves 2 days @ $55/day = $110.00

E. Harrington 2 days @ $114.29/day $228.58

B. Hagell 0.5 days @ $66.67/day =$ 33.34

$652.42 $652.42

f) Blair Adit (opening adit + rock sampling)

Backhoe charge =$588.00

Assay costs: 83 Samples @ $8.50/sampl=$705.50

81 Samples @ $8.00/sampl=$648.00

B. Hagell 6 days @ $66.67/day =$400.02

D. Reeves 5 days @ $55/day =$275.00

B. Kelly 1 day @ $75/day =$ 75.00

R. W. Allen 2 days @ $65.10/day =$130.20

$2821.72 $2821.72

g) Diamond Drilling (Jan. 5-March 9/81)

Drilling Cost =$32,322.16

Number of core samples =259

Cost per sample $8.00

Cost of Assay =$8.00 X 259 = $2072.00

B. Kelly 37 days @ $75/day = $2775.00

$37,169.16 $37,169.16

b) Overhead

Number of claims within area = 13

Cost necessary to renew one claim for one year = $200.00

Allowable overhead charges =($200.00 X 13) X 10% =$260.00 $ 260.00

TOTAL === $53,190.94

Total expenditures claimed on exploration license #1535 is $53,190.94

9. Personnel

Personnel	Address	Survey	Dates Worked
H. Harrington	P. O. Box 120, Sherbrooke,N.S.	Grid	May/80- 14(½),15,19-22,23(½).
		Geochem.	May/80-29,30
			June/80- 3-6,9
			July/80- 24(½)
			Aug./80- 6
		Mapping	June/80- 13(½), 16-20. 23-26
		Rock Sampling	Aug/80- 4,5

B. Hagell	P. O. Box 120, Sherbrooke,N.S.	Grid	May/80-14(½), 15, 19-22,23(½).
		Geochem	May/80- 29,30
			June/80-3, 6-9
			July/80-24(½)
			Aug/80-4-7
		Mapping	June/80-13(½), 16-20, 23-26
		R. Sampling	June/80- 28(½)
		U. G. Sampling	Nov/80- 3-6
			Jan/81-22,23
D. Reeves	P. O. Box 120, Sherbrooke,N.S.	Geochemical	Aug/80- 6
		Rock Sampling	Aug/80- 4,5
		U. G. Sampling	Nov/80-3-6
			Jan/81- 23
J. Desrosiers	P. O. Box 120, Sherbrooke,N.S.	Geochemical	Aug/80- 4-7
R. W. Allen	43A Charles Street, Truro,N.S.	U. G. Sampling	Nov/80-3,4
B. Kelly	P. O. Box 120, Sherbrooke,N.S.	U. G. Sampling	Jan/81-22
		Drilling	Jan/81-15,16,19-21,23,26-30
			Feb/81- 2-6,9-13, 16-20,23-27
			Mar/81-2-6,9

NOTE:

The complete diamond drilling program at Country Harbour consisted of eight holes (COHA 2 - COHA 9). Only six holes (COHA 2 - COHA 7) were completed before the renewal date of the claims and therefore are the only costs reported under the diamond drilling section of the cost allocations. The cost of the remaining two holes will be charged to a later report.

In order to facilitate the interpretation of the complete exploration program, the geological results of all eight holes have been included in this report.

APPENDIX I

SANDER GEOPHYSICAL REPORT

REPORT ON THE
HELICOPTER-BORNE GEOPHYSICAL SURVEY
ON BEHALF OF
NORTHUMBERLAND MINES LIMITED
and
PARAGON EXPLORATIONS LIMITED
in the
GUYSBOROUGH COUNTY, NOVA SCOTIA

by

George W. Sander, Ph.D., P.Eng.
W. Reed Archer, B.Sc. Hons.

SANDER GEOPHYSICS LIMITED

Kanata, Ontario

June 1980

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Summary

A helicopter-borne magnetometer and VLF survey was conducted on behalf of Northumberland Mines Limited over Cochrane Hill near Sherbrooke, Nova Scotia.

Both methods were flown simultaneously using a Bell 47G-3B-2 helicopter equipped with a Sander NPM-5 high resolution proton precession magnetometer and a Sander VLF-EM II instrument. A separate survey using only the magnetometer was flown for Paragon Explorations Limited in the County Harbour Mines area. Survey altitude for both surveys was 60 m with a line spacing of 122 m.

The survey data indicates that in each of the two areas, a major magnetic trend occurs. In each case, the structure resembles a narrow steeply dipping prism. In the case of Cochrane Hill, electrical conductors were delineated adjacent to the magnetic anomalies.

Introduction

During the month of May 1980, a combined helicopter-borne VLF and magnetometer survey was conducted on behalf of Northumberland Mines Limited over the Cochrane Hill group of claims, which lies just east of St. Mary's River in Guysborough County, Nova Scotia.

A separate survey using only the Sander NPM-5 magnetometer was conducted over claims belonging to Paragon Explorations Limited in the vicinity of County Harbour Mines, Guysborough County, Nova Scotia. The VLF instrument was not flown over the Paragon holdings as the east-west flight line direction precluded the use of this method, as there is no suitable VLF transmitter station located perpendicular to the survey flight line direction.

The purpose of the magnetometer survey was to delineate certain structures within the bedrock and to gain a better understanding of the extent and shape of these structures. This survey was particularly useful as magnetite is known to be associated with gold-bearing structures. The VLF survey was flown in conjunction with the magnetometer in order to locate zones of electrical conductivity which might be of interest with respect to the gold exploration program.

Access and Topography

The survey was conducted from the town of Sherbrooke, Nova Scotia, which is accessible by Highway 7, a paved road

running east-west across the eastern part of Nova Scotia. Both areas can be further accessed by old gravel roads crossing the survey areas.

The land is gently rolling and dotted by small lakes and streams. Both survey areas are adjacent to major rivers which cut deeply into the plain forming steep river valleys.

Survey Parameters

The survey for Northumberland Mines Limited was conducted in the direction of the magnetic field vectors for the Cutler, Maine VLF transmission station. This direction is approximately north-south which intersects geological structures of interest at a right angle, making this the ideal survey direction.

For the Paragon Exploration group of claims, the flight line direction is east-west, approximately perpendicular to the major geological strike in the area.

For both areas, the flight altitude was 60 m above the ground. The magnetometer sensor was slung 20 m below the aircraft, giving a magnetometer survey level of 40 m above the ground. The VLF instrument was fixed to the helicopter. In the region of steep cliffs, the survey altitude could not be maintained exactly, but for most of the area, this altitude was readily maintained.

The survey was flown from a photomosaic made from National Air Photo Library aerial photographs. The mosaic is at the scale of 1:10,000. Maps were compiled on a copy of the same photomosaic.

Instrumentation

The instrumentation used in this survey is owned and operated by Sander Geophysics. The majority of these instruments is designed and manufactured by this company.

The helicopter was equipped with a Sander VLF-EM II instrument, a Sander NPM-5 proton precession magnetometer, a 16 mm tracking camera and a Bonzer radar altimeter. Recordings were made in digital form on a Sander ADR-II digital cassette recorder and data quality was verified after each flight using a cassette reader and a 6-channel chart recorder.

Diurnal variations were observed using a Sander NPM-5 magnetometer, combined with an ADR-II digital recorder.

VLF Instrument

The three orthogonal magnetic components of the VLF field were measured using the Sander VLF-EM II receiver. Phase information for the vertical out-of-phase component was obtained using the maximum-coupled horizontal coil for reference. From these three magnetic pick-up coils, four channels of information were recorded.

H/1 -- the signal amplitude of the horizontal, maximum-coupled coil.

H/2 -- the signal amplitude of the horizontal, minimum-coupled coil.

V.I.P. -- the amplitude of the in-phase portion of the vertical coil signal referenced to H/1.

V.O.P. -- the amplitude of the out-of-phase portion of the vertical coil signal referenced to H/2.

The attitude of the helicopter is monitored with a vertical gyro and corrections are applied later during processing.

Magnetometer

The magnetometer survey was conducted with a Sander NPM-5 proton precession magnetometer. This instrument records the total magnetic field to a resolution of 0.1 gamma and an accuracy matching this resolution. Every measurement lasted 1.25 seconds and was recorded digitally at this interval. A ground magnetic station was continually monitored during the course of this survey. This provided both a means of observing the diurnal variations in the magnetic field and permitted systematic correction for such field changes. This base station was synchronized with the airborne system through the use of crystal-driven clocks. Base station measurements were recorded every 3 seconds. Please refer to the Appendix for a more detailed description of the NPM-5.

Data Processing

The following section of this report concerns itself with data processing in general. Many of the steps carried out for data processing are identical in the production of both VLF and magnetometer maps. The following is a description of the digital and manual data processing employed.

All data processing was accomplished using two Texas Instrument 980A computers. Plotting of the flight path, profile maps and contour maps was carried out using a Gerber Flatbed

Table driven by an Intel SBC80/20 computer.

The data were recorded on the digital cassettes with the following format and octal channel numbers:

00 Magnetometer, 4 BCD digits
01 Camera
02 Time (seconds)
03 Time (hours)
04 Magnetometer
05 Altimeter
11 VLF Horizontal (maximum-coupled)
12 VLF Horizontal (minimum-coupled)
13 VLF In-Phase
14 VLF Out-of-Phase
15 Gyro Pitch
16 Gyro Roll

The flight path was recorded with a 16 mm camera. This camera is synchronized with the analogue and digital records by a fiducial code printed on the film and on both recording media (figure 1). Flight path was recovered on 1:10,000 aerial photomosaics.

Fiducial mark placement was accomplished by the use of a digitizing machine with a resolution of .1 mm. In this way, the coordinates of fiducial marks with their respective numbers and the line numbers were entered into the computer system. A second data stream was created by converting the digital field recordings to IBM-compatible tapes. By using an identical code for line numbers, it was then possible to correlate the geophysical data with the flight path.

Production of VLF Maps

The survey was conducted by utilizing the VLF field transmitted by the U.S. Navy transmitter station at Cutler, Maine (NAA, 17.8 kHz).

Fiducial codes used on 16mm tracking film

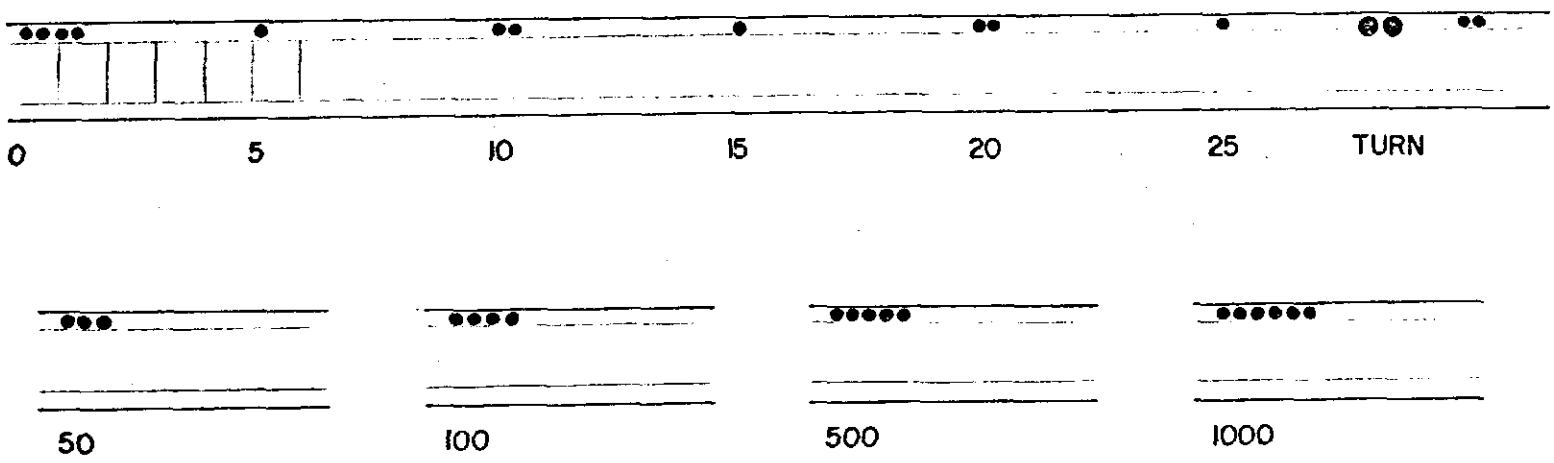

Figure 1

The VLF profile maps were produced by computer. A number of corrections were applied in order to eliminate the effect of the aircraft movement and the effect of varying strengths of the electromagnetic field transmitted by the VLF station. Corrections for the attitude of the aircraft were based on the output of the vertical gyro carried in the aircraft. The correlation between changes in the vertical field strength and movements of the aircraft was determined experimentally. Data were plotted along the flight lines by removing the DC bias. This was facilitated by a computer program which determines the average value for 49 readings.

For each flight line direction, the VLF data are represented on two profile maps. One map gives the vertical out-of-phase as well as the in-phase vector of the dip angle of the anomalous field component. The other map gives total field strength. The vertical out-of-phase was plotted in the measured units of field strength squared. The use of this non-linear scale proved necessary in order to minimize the effect of small DC offsets observed in the data. It should be noted that uncertainties in the true zero level make the scale which is shown somewhat arbitrary. Hence, the out-of-phase profiles should be treated as semi-quantitative representations of the data. The vertical out-of-phase, plotted in this format, proves more useful in determining conductor trends than other more rigorous formats examined.

Production of Magnetometer Maps

The magnetic data was diurnally corrected with the use of ground station data. The magnetic maps were produced by using a cubic spline function to interpolate data between flight lines. This function was defined by utilizing the actual flight data and forming cubic splines across the lines. Data values were created for each intersection point of a square grid, with a spacing of 2.5 mm. These data were then contoured by computer to a basic interval of 20 gammas.

The boundaries of the Cochrane Hill area have been extended to include all the geophysical data that was acquired during the survey.

Theory of VLF Surveying

The VLF survey was conducted utilizing the VLF station located at Cutler, Maine.

The VLF-EM method utilizes the radio transmission pattern of very low frequency stations located throughout the world. These stations are set up by the various navies in order to communicate with surface ships and submarines. Frequencies of operation vary between 16 kHz and 22 kHz, which is a very low frequency for radio transmission. In order to cover large areas of the world with such low frequency, transmitters have to be very strong. The transmission pattern was originally a keyed FSK data transmission pattern, but has now been changed for the American stations to an MSK

transmitting pattern. If employed properly, the radio transmission can be utilized in such a way that the effect of the data transmission is eliminated and that the surface interaction between the electromagnetic radio wave and the geological and topographical features on the ground can be observed. Most VLF survey methods utilize the magnetic vector of the VLF field. The Sander VLF helicopter-borne survey system is described in a special section of this report. We are concerned here with the geophysical results.

Our understanding of the nature of VLF disturbances (anomalies) has changed in recent years. When the method was developed some fifteen years ago, it was hoped that the VLF method could detect sulphide ore bodies and that this rather simple survey method with good depth penetration could replace the more difficult EM surveys. This hope did not materialize and interpretation of electromagnetic anomalies on the basis of eddy currents induced in individual conductors has not been successful in general. However, in conducting VLF surveys, it was observed that the anomalies follow faults, long stratigraphic conductors and other geological features, thus the method has found its place in locating fault zones and fractures, particularly in resistive rocks and conductors, such as graphite and sulphide zones in any kind of rock. General experience and model experiments have indicated that the electromagnetic field in a given area induces currents

in the ground and these currents will follow the path of least resistance, be it a water carrying fault, graphite or sulphide zone, overburden features or industrial conductors, such as power lines, railroads. The amount of current and the phase relationship between the current and the primary field seem to depend on the amount of EMF in the particular area and the availability of conductors to allow this force to be converted into currents.

In order to describe this mechanism, the term current channeling has been created. The theory of current channeling to explain VLF anomalies allows both a wider application of the method and an appreciation of the fact that the same current might follow any kind of conductor, geological, topographical or industrial.

From the theory of current channeling, it follows that the amount of current in individual conductors will depend both on the nature of this conductor and on the presence of other conductors in the area. The EM field of such current-carrying zones should not decrease too much with distance, allowing us to observe conductors at considerable depth. The skin depth of the VLF waves can be from several hundred to a thousand meters, depending on the nature of the ground. In some cases, the geometry of a basin might contribute by allowing currents to reach considerable depth.

At the present time, the VLF method is a relatively crude one compared to the accuracy which can be obtained with, for instance, magnetometers. We are measuring VLF anomalies in units equal to 1% of the total field while magnetic anomalies are described in units equal to .002%. The representation of VLF data favours high frequency anomalies, which are, by nature, rather strong.

The theory of current channeling explains why individual VLF anomalies can be less dependent on the direction of the EM vector than originally expected. In general, however, currents will flow in the direction of the electrical potential and certain directions are favoured by the current flow. It is easily recognized that the anomalies are in general at a right-angle to the flight lines, but we will in the following discussion attempt to explain current flow also in other directions.

It might be summarized that the VLF method detects current flows in the ground. These currents might indicate conductors at considerable depth, but the present method of data presentation favour shallow conductors, which give a relatively high frequency. In the Cochrane Hill area, the currents might follow fracture zones containing some conducting medium.

Theory of Magnetometer Surveying

The proton precession magnetometer operates on the principle of nuclear resonance. Atomic nuclei precess about a weak magnetic field at a rate which is proportional only to the intensity of the magnetic field. Each measurement consists of a two part cycle; namely, polarizing and counting. During the polarizing period, an intense magnetic field is created within the probe, containing hydrogen protons in a liquid. This serves to align the protons in a direction roughly perpendicular to the earth's field. At the end of this period, the field is suddenly interrupted and the protons precess freely about the earth's field. During the counting period, the rate of precession is determined by measuring the number of cycles induced into a coil by the precessing protons during a fixed time interval. The output is converted to a digital reading in units of .05 gammas and recorded at the end of each cycle. Both the free precession phenomenon and the quartz clock are essentially free from the effects of temperature variation and an ultimate precession of 1 part in 10^6 is attainable with the system. At the present time, the only significant source of noise is due to small angular rotations of the sensor coil encountered during turbulent flying conditions.

The magnetometer essentially measures the concentrations of magnetite (and in some cases, other magnetic minerals)

found in the rock. The widely varying concentrations of this mineral in the lithosphere make the magnetometer a useful instrument for delineating contacts and other lithologic and structural features.

Results - County Harbour Claim Group

The results of the magnetic survey are shown on the aeromagnetic map of said area. This map shows a major magnetic feature interrupting the magnetically quiet surrounding area. This situation suggests that the magnetic anomalies are due to a thin linear structure striking N15°W. All the anomalies do not lie exactly on the same trend, indicating that the body is not entirely homogeneous. A possible model for this body is that of an intrusive dyke that has varying concentrations of magnetite throughout. Another possibility is that this magnetic zone represents a mineralized fracture zone. In such a zone, it could be expected that the concentrations of magnetite would not be entirely consistent throughout its length. Secondary fractures branching off the main fault would account for the secondary strike direction (northwest) noted at the centre of the map.

The southern-most anomaly also seems to have the same general trend of northwest. This anomaly may be of interest as a possible unexplored zone of mineralization. Its location, however, makes it a difficult target.

The mineralized zone in this area appears to be very limited in areal extent and does not extend any further than the mapped area.

Results - Cochrane Hill Claim Group

The magnetic survey results are shown on one aeromagnetic map and the VLF survey data is presented as a contour map of the horizontal coil (H_1) and profiles of the two vertical coils.

The magnetic map shows two major zones of magnetic anomalies. The most obvious one strikes east-west across the area with uniform intensity. Such homogeneity suggests that the cause of this anomaly is an intrusive rock that has a much higher magnetite content than the surrounding country rock. South of the main magnetic trend is a slight low zone followed by another high which runs parallel to the larger one to the north. This indicates than another structure could be present in this area. The source of this smaller linear anomaly may be a second intrusion or the expression of the southern contact of the large dyke to the north. It is possible that this magnetic anomaly represents an altered,and hence mineralized,zone in the country rock. From the shape of the magnetic anomaly, it can be inferred that the intrusion dips quite steeply.

The VLF maps show anomalies that indicate a thin dyke striking across the map. The profiles show that along the

north and south edges of the intrusion there is an area of increased electrical conductivity which are probably metamorphic contact zones, the most likely conductor being graphite. The graphite may be in a fracture zone that runs along the southern edge of this intrusion.

Another anomalous zone occurs at the southern boundary of this map. This zone is of similar intensity to the main anomaly that strikes across the map area, but does not appear as homogeneous. A similar origin is proposed for the two sets of anomalies.

Reed Archer

W. Reed Archer, B.Sc. Hons.

G. W. Sander

George W. Sander, Ph.D., P.Eng.

APPENDIX II

GEOCHEMICAL DATA

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: PARAGON EXPLORATIONS LTD.,
ATTN: B. MORDY,
21ST FLOOR, 80 RICHMOND ST. W.,
TORONTO, ONTARIO.
M5H 2A4

REPORT : 7491 REF. FILE 3672-04

542 HUMUS, 538 SOILS SUBMITTED ON 12-JUN-80

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
AU	PPB	NA	1.000
AS	PPM	NA	1.000
SN	PPM	EMS	3.000
W	PPM	NA	1.000

DATE 11-JUL-80

CERTIFIED BY: J.F. GPDEBEECK

SAMPLE	AU PPB	AS PPM	SB PPM	W PPM
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2	<1	<1	--	<1
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5	2	<1	--	<1
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7	1	<1	--	<1
8	1	<1	--	<1
9	<1	<1	--	<1
10	<1	<1	--	<1
11	2	<1	--	<1
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64	6	6	--	<1
65	6	7	--	<1
66	6	8	--	<1
67	5	1	--	<1
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87	2	<1	--	<1
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SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
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282	1	<1	--	<1
283	<1	1	--	<1
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285	1	<1	--	<1
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287	2	1	--	<1
288	2	<1	--	<1
289	<1	<1	--	<1
290	1	<1	--	<1
291	2	<1	--	<1
292	2	<1	--	<1
293	2	<1	--	<1
294	8	<1	--	<1
295	1	<1	--	<1
296	<1	<1	--	<1
297	<1	<1	--	<1
298	1	<1	--	<1
299	<1	<1	--	<1
300	1	<1	--	<1
301	3	<1	--	<1
302	1	<1	--	<1
303	3	<1	--	<1
304	1	2	--	<1
305	2	<1	--	<1
306	1	<1	--	<1
307	<1	<1	--	<1
308	2	<1	--	<1
309	2	<1	--	<1
310	3	1	--	<1
311	3	<1	--	<1
312	1	<1	--	<1
313	1	1	--	<1
314	<1	1	--	<1
315	1	1	--	<1
316	1	1	--	<1
317	<1	2	--	<1
318	1	<1	--	<1
319	1	<1	--	<1
320	2	<1	--	<1
321	2	<1	--	<1
322	1	<1	--	<1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
325	<1	<1	--	<1
326	2	<1	--	<1
327	2	<1	--	<1
328	2	<1	--	<1
329	1	<1	--	<1
330	2	<1	--	<1
331	3	<1	--	<1
332	NSS	NSS	--	NSS
333	2	<1	--	<1
334	4	<1	--	<1
335	2	<1	--	<1

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
336	2	<1	--	<1
337	1	<1	--	<1
338	2	1	--	<1
339	2	<1	--	<1
340	1	1	--	<1
341	2	<1	--	<1
342	3	<1	--	<1
343	2	<1	--	<1
344	3	3	--	<1
345	1	<1	--	<1
346	2	<1	--	<1
347	2	<1	--	<1
348	3	<1	--	<1
349	2	<1	--	<1
350	1	<1	--	<1
351	<1	<1	--	<1
352	3	<1	--	<1
353	1	<1	--	<1
354	2	<1	--	<1
355	<1	<1	--	<1
356	2	<1	--	<1
357	1	<1	--	<1
358	<1	<1	--	<1
359	1	<1	--	<1
360	3	<1	--	<1
361	2	<1	--	<1
362	<1	<1	--	<1
363	1	<1	--	<1
364	2	<1	--	<1
365	4	<1	--	<1
366	2	1	--	<1
367	3	<1	--	<1
368	1	<1	--	<1
369	1	<1	--	<1
370	2	<1	--	<1
371	2	2	--	<1
372	2	<1	--	<1
373	2	<1	--	<1
374	1	<1	--	<1
375	3	<1	--	<1
376	<1	<1	--	<1
377	2	1	--	<1
378	2	1	--	<1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	2	--	<1
381	<1	<1	--	<1
382	1	<1	--	<1
383	1	<1	--	<1
384	1	<1	--	<1
385	1	<1	--	<1
386	1	<1	--	<1
387	2	<1	--	<1
388	<1	<1	--	<1
389	1	<1	--	<1
390	1	<1	--	<1
391	2	<1	--	<1

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
392	2	1	--	<1
393	1	1	--	<1
394	2	1	--	<1
395	3	<1	--	<1
396	1	<1	--	<1
397	1	<1	--	<1
398	1	<1	--	<1
399	1	<1	--	<1
400	1	<1	--	<1
401	2	<1	--	<1
402	2	<1	--	<1
403	4	<1	--	<1
404	4	<1	--	<1
405	3	<1	--	<1
406	4	1	--	<1
407	4	<1	--	<1
408	1	<1	--	<1
409	3	<1	--	<1
410	2	<1	--	<1
411	2	<1	--	<1
412	2	<1	--	<1
413	2	<1	--	<1
414	2	<1	--	<1
415	1	<1	--	<1
416	3	<1	--	<1
417	3	<1	--	<1
418	2	<1	--	<1
419	2	<1	--	<1
420	2	<1	--	<1
421	2	<1	--	<1
422	2	<1	--	<1
423	2	<1	--	<1
424	2	<1	--	<1
425	2	<1	--	<1
426	1	<1	--	<1
427	2	<1	--	<1
428	1	<1	--	<1
429	2	<1	--	<1
430	2	<1	--	<1
431	1	<1	--	<1
432	2	<1	--	<1
433	1	<1	--	<1
434	1	<1	--	<1
435	2	<1	--	<1
436	2	<1	--	<1
437	4	<1	--	<1
438	5	<1	--	<1
439	3	<1	--	<1
440	3	<1	--	<1
441	3	<1	--	<1
442	3	<1	--	<1
443	2	<1	--	<1
444	2	<1	--	<1
445	3	<1	--	<1
446	3	<1	--	<1
447	3	1	--	<1

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
448	1	<1	--	<1
449	3	1	--	<1
450	3	<1	--	<1
451	2	<1	--	<1
452	3	<1	--	<1
453	1	<1	--	<1
454	3	<1	--	<1
455	2	<1	--	<1
456	3	<1	--	<1
457	6	1	--	<1
458	2	<1	--	<1
459	2	1	--	<1
460	1	<1	--	<1
461	3	<1	--	<1
462	2	<1	--	<1
463	3	<1	--	<1
464	2	<1	--	<1
465	2	<1	--	<1
466	<1	<1	--	<1
467	3	<1	--	<1
468	1	<1	--	<1
469	2	<1	--	<1
470	<1	<1	--	<1
471	3	<1	--	<1
472	2	<1	--	<1
473	2	<1	--	<1
474	1	<1	--	<1
475	1	<1	--	<1
476	2	<1	--	<1
477	1	<1	--	<1
478	1	<1	--	<1
479	2	<1	--	<1
480	2	<1	--	<1
481	2	<1	--	<1
482	1	<1	--	<1
483	3	<1	--	<1
484	2	<1	--	<1
485	1	<1	--	<1
486	1	<1	--	<1
487	1	<1	--	<1
488	2	<1	--	<1
489	3	<1	--	<1
490	3	<1	--	<1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
493	[illegible]	<1	--	<1
494	[illegible]	[illegible]	--	<1
495	2	<1	--	<1
496	[illegible]	<1	--	<1
[illegible]	[illegible]	<1	--	<1
498	2	<1	--	<1
499	2	<1	--	<1
500	2	<1	--	<1
501	2	<1	--	<1
502	1	<1	--	<1
503	2	<1	--	<1

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
504	<1	<1	--	<1
505	2	<1	--	<1
506	<1	<1	--	<1
507	1	<1	--	<1
508	1	<1	--	<1
509	2	<1	--	<1
510	2	<1	--	<1
511	2	<1	--	<1
512	2	<1	--	<1
513	3	<1	--	<1
514	3	<1	--	<1
515	2	<1	--	<1
516	1	<1	--	<1
517	2	<1	--	<1
518	3	1	--	<1
519	1	<1	--	<1
520	2	<1	--	<1
521	2	<1	--	<1
522	2	<1	--	<1
523	3	<1	--	<1
524	3	<1	--	<1
525	1	<1	--	<1
526	2	<1	--	<1
527	3	<1	--	<1
528	5	<1	--	<1
529	3	<1	--	<1
530	1	<1	--	<1
531	1	<1	--	<1
532	2	<1	--	<1
533	1	<1	--	<1
534	1	<1	--	<1
535	2	<1	--	<1
536	2	<1	--	<1
537	2	<1	--	<1
538	2	<1	--	<1
539	2	<1	--	<1
540	1	<1	--	<1
541	2	<1	--	<1
542	1	<1	--	<1
COHS-1	--	--	<3	--
COHS-2	--	--	3	--
COHS-3	--	--	<3	--
COHS-4	--	--	<3	--
COHS-5	--	--	<3	--
COHS-6	--	--	<3	--
COHS-7	--	--	<3	--
COHS-8	--	--	3	--
COHS-9	--	--	<3	--
COHS-10	--	--	<3	--
COHS-11	--	--	<3	--
COHS-12	--	--	<3	--
COHS-13	--	--	<3	--
COHS-14	--	--	<3	--
COHS-15	--	--	<3	--
COHS-16	--	--	<3	--
COHS-17	--	--	<3	--

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
COHS-18	--	--	3	--
COHS-19	--	--	<3	--
COHS-20	--	--	<3	--
COHS-21	--	--	<3	--
COHS-22	--	--	<3	--
COHS-23	--	--	<3	--
COHS-24	--	--	<3	--
COHS-25	--	--	<3	--
COHS-26	--	--	<3	--
COHS-27	--	--	<3	--
COHS-28	--	--	<3	--
COHS-29	--	--	3	--
COHS-30	--	--	<3	--
COHS-31	--	--	<3	--
COHS-32	--	--	<3	--
COHS-33	--	--	5	--
COHS-34	--	--	<3	--
COHS-35	--	--	<3	--
COHS-36	--	--	<3	--
COHS-37	--	--	<3	--
COHS-38	--	--	<3	--
COHS-39	--	--	<3	--
COHS-40	--	--	<3	--
COHS-41	--	--	<3	--
COHS-42	--	--	<3	--
COHS-43	--	--	<3	--
COHS-44	--	--	5	--
COHS-45	--	--	3	--
COHS-46	--	--	<3	--
COHS-47	--	--	3	--
COHS-48	--	--	<3	--
COHS-49	--	--	<3	--
COHS-50	--	--	<3	--
COHS-51	--	--	3	--
COHS-52	--	--	<3	--
COHS-53	--	--	<3	--
COHS-54	--	--	<3	--
COHS-55	--	--	5	--
COHS-56	--	--	5	--
COHS-57	--	--	3	--
COHS-58	--	--	<3	--
COHS-59	--	--	<3	--
COHS-60	--	--	<3	--
COHS-61	--	--	<3	--
COHS-62	--	--	<3	--
COHS-63	--	--	<3	--
COHS-64	--	--	3	--
COHS-65	--	--	<3	--
COHS-66	--	--	<3	--
COHS-67	--	--	<3	--
COHS-68	--	--	<3	--
COHS-69	--	--	3	--
COHS-70	--	--	<3	--
COHS-71	--	--	3	--
COHS-72	--	--	3	--
COHS-73	--	--	<3	--

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
COHS-74	--	--	3	--
COHS-75	--	--	5	--
COHS-76	--	--	5	--
COHS-77	--	--	5	--
COHS-78	--	--	3	--
COHS-79	--	--	<3	--
COHS-80	--	--	3	--
COHS-81	--	--	3	--
COHS-82	--	--	3	--
COHS-83	--	--	<3	--
COHS-84	--	--	3	--
COHS-85	--	--	<3	--
COHS-86	--	--	<3	--
COHS-87	--	--	<3	--
COHS-88	--	--	3	--
COHS-89	--	--	<3	--
COHS-90	--	--	3	--
COHS-91	--	--	<3	--
COHS-92	--	--	<3	--
COHS-93	--	--	3	--
COHS-94	--	--	5	--
COHS-95	--	--	<3	--
COHS-96	--	--	<3	--
COHS-97	--	--	5	--
COHS-98	--	--	3	--
COHS-99	--	--	<3	--
COHS-100	--	--	<3	--
COHS-101	--	--	3	--
COHS-102	--	--	<3	--
COHS-103	--	--	<3	--
COHS-104	--	--	<3	--
COHS-105	--	--	<3	--
COHS-106	--	--	3	--
COHS-107	--	--	<3	--
COHS-108	--	--	<3	--
COHS-109	--	--	<3	--
COHS-110	--	--	5	--
COHS-111	--	--	3	--
COHS-112	--	--	<3	--
COHS-113	--	--	<3	--
COHS-114	--	--	<3	--
COHS-115	--	--	<3	--
COHS-116	--	--	<3	--
COHS-117	--	--	<3	--
COHS-118	--	--	<3	--
COHS-119	--	--	<3	--
COHS-120	--	--	3	--
COHS-121	--	--	3	--
COHS-122	--	--	3	--
COHS-123	--	--	43	--
COHS-124	--	--	3	--
COHS-125	--	--	<3	--
COHS-126	--	--	<3	--
COHS-127	--	--	<3	--
COHS-128	--	--	<3	--
COHS-129	--	--	8	--

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
COHS-130	--	--	3	--
COHS-131	--	--	3	--
COHS-132	--	--	3	--
COHS-133	--	--	<3	--
COHS-134	--	--	3	--
COHS-135	--	--	<3	--
COHS-136	--	--	<3	--
COHS-137	--	--	<3	--
COHS-138	--	--	<3	--
COHS-139	--	--	3	--
COHS-140	--	--	3	--
COHS-141	--	--	5	--
COHS-142	--	--	3	--
COHS-143	--	--	5	--
COHS-144	--	--	<3	--
COHS-145	--	--	<3	--
COHS-146	--	--	<3	--
COHS-147	--	--	<3	--
COHS-148	--	--	<3	--
COHS-149	--	--	<3	--
COHS-150	--	--	<3	--
COHS-151	--	--	<3	--
COHS-152	--	--	3	--
COHS-153	--	--	8	--
COHS-154	--	--	5	--
COHS-155	--	--	5	--
COHS-156	--	--	3	--
COHS-157	--	--	<3	--
COHS-158	--	--	<3	--
COHS-159	--	--	<3	--
COHS-160	--	--	<3	--
COHS-161	--	--	<3	--
COHS-162	--	--	<3	--
COHS-163	--	--	3	--
COHS-164	--	--	<3	--
COHS-165	--	--	<3	--
COHS-166	--	--	<3	--
COHS-167	--	--	<3	--
COHS-168	--	--	<3	--
COHS-169	--	--	<3	--
COHS-170	--	--	<3	--
COHS-171	--	--	<3	--
COHS-172	--	--	3	--
[illegible]				
COHS-176	--	--	<3	--
COHS-177	--	--	<3	--
COHS-178	--	--	<3	--
COHS-179	--	--	<3	--
COHS-180	--	--	<3	--
COHS-181	--	--	<3	--
COHS-182	--	--	3	--
COHS-183	--	--	<3	--
COHS-184	--	--	<3	--
COHS-185	--	--	<3	--

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
COHS-186	--	--	<3	--
COHS-187	--	--	5	--
COHS-188	--	--	3	--
COHS-189	--	--	5	--
COHS-190	--	--	3	--
COHS-191	--	--	3	--
COHS-192	--	--	3	--
COHS-193	--	--	3	--
COHS-194	--	--	3	--
COHS-195	--	--	3	--
COHS-196	--	--	5	--
COHS-197	--	--	10	--
COHS-198	--	--	3	--
COHS-199	--	--	<3	--
COHS-200	--	--	<3	--
COHS-201	--	--	5	--
COHS-202	--	--	3	--
COHS-203	--	--	3	--
COHS-204	--	--	<3	--
COHS-205	--	--	<3	--
COHS-206	--	--	<3	--
COHS-207	--	--	<3	--
COHS-208	--	--	<3	--
COHS-209	--	--	3	--
COHS-210	--	--	5	--
COHS-211	--	--	5	--
COHS-212	--	--	3	--
COHS-213	--	--	3	--
COHS-214	--	--	3	--
COHS-215	--	--	3	--
COHS-216	--	--	<3	--
COHS-217	--	--	<3	--
COHS-218	--	--	<3	--
COHS-219	--	--	5	--
COHS-220	--	--	50	--
COHS-221	--	--	<3	--
COHS-222	--	--	<3	--
COHS-223	--	--	<3	--
COHS-224	--	--	<3	--
COHS-225	--	--	<3	--
COHS-226	--	--	<3	--
COHS-227	--	--	<3	--
COHS-228	--	--	<3	--
COHS-229	--	--	<3	--
COHS-230	--	--	3	--
COHS-231	--	--	<3	--
COHS-232	--	--	3	--
COHS-233	--	--	<3	--
COHS-234	--	--	<3	--
COHS-235	--	--	<3	--
COHS-236	--	--	<3	--
COHS-237	--	--	<3	--
COHS-238	--	--	<3	--
COHS-239	--	--	<3	--
COHS-240	--	--	<3	--
COHS-241	--	--	<3	--

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
COHS-242	--	--	<3	--
COHS-243	--	--	<3	--
COHS-244	--	--	<3	--
COHS-245	--	--	3	--
COHS-246	--	--	<3	--
COHS-247	--	--	<3	--
COHS-248	--	--	3	--
COHS-249	--	--	<3	--
COHS-250	--	--	<3	--
COHS-251	--	--	3	--
COHS-252	--	--	<3	--
COHS-253	--	--	3	--
COHS-254	--	--	5	--
COHS-255	--	--	5	--
COHS-256	--	--	<3	--
COHS-257	--	--	<3	--
COHS-258	--	--	<3	--
COHS-259	--	--	<3	--
COHS-260	--	--	3	--
COHS-261	--	--	3	--
COHS-262	--	--	<3	--
COHS-263	--	--	<3	--
COHS-264	--	--	<3	--
COHS-265	--	--	<3	--
COHS-266	--	--	<3	--
COHS-267	--	--	<3	--
COHS-268	--	--	<3	--
COHS-269	--	--	5	--
COHS-270	--	--	3	--
COHS-271	--	--	3	--
COHS-272	--	--	3	--
COHS-273	--	--	<3	--
COHS-274	--	--	<3	--
COHS-275	--	--	<3	--
COHS-276	--	--	<3	--
COHS-277	--	--	<3	--
COHS-278	--	--	<3	--
COHS-279	--	--	<3	--
COHS-280	--	--	<3	--
COHS-281	--	--	<3	--
COHS-282	--	--	<3	--
COHS-283	--	--	<3	--
COHS-284	--	--	3	--
[illegible]				
COHS-292	--	--	<3	--
COHS-293	--	--	<3	--
COHS-294	--	--	3	--
COHS-295	--	--	<3	--
COHS-296	--	--	<3	--
COHS-297	--	--	<3	--

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
COHS-298	--	--	<3	--
COHS-299	--	--	<3	--
COHS-300	--	--	<3	--
COHS-301	--	--	<3	--
COHS-302	--	--	<3	--
COHS-303	--	--	<3	--
COHS-304	--	--	<3	--
COHS-305	--	--	<3	--
COHS-306	--	--	3	--
COHS-307	--	--	<3	--
COHS-308	--	--	<3	--
COHS-309	--	--	3	--
COHS-310	--	--	3	--
COHS-311	--	--	<3	--
COHS-312	--	--	<3	--
COHS-313	--	--	<3	--
COHS-314	--	--	<3	--
COHS-315	--	--	<3	--
COHS-316	--	--	<3	--
COHS-317	--	--	3	--
COHS-318	--	--	<3	--
COHS-319	--	--	<3	--
COHS-320	--	--	<3	--
COHS-321	--	--	<3	--
COHS-322	--	--	3	--
COHS-323	--	--	<3	--
COHS-324	--	--	<3	--
COHS-325	--	--	<3	--
COHS-326	--	--	<3	--
COHS-327	--	--	<3	--
COHS-328	--	--	<3	--
COHS-329	--	--	3	--
COHS-330	--	--	<3	--
COHS-331	--	--	<3	--
COHS-332	--	--	<3	--
COHS-333	--	--	<3	--
COHS-334	--	--	3	--
COHS-335	--	--	<3	--
COHS-336	--	--	3	--
COHS-337	--	--	<3	--
COHS-338	--	--	<3	--
COHS-339	--	--	<3	--
COHS-340	--	--	3	--
[illegible]				
[illegible]				
[illegible]				
[illegible]				
[illegible]				
[illegible]				
[illegible]				
COHS-349	--	--	3	--
COHS-350	--	--	3	--
COHS-351	--	--	<3	--
COHS-352	--	--	3	--
COHS-353	--	--	<3	--

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
COHS-354	--	--	5	--
COHS-355	--	--	5	--
COHS-356	--	--	<3	--
COHS-357	--	--	3	--
COHS-358	--	--	<3	--
COHS-359	--	--	3	--
COHS-360	--	--	3	--
COHS-361	--	--	5	--
COHS-362	--	--	3	--
COHS-363	--	--	5	--
COHS-364	--	--	3	--
COHS-365	--	--	<3	--
COHS-366	--	--	<3	--
COHS-367	--	--	<3	--
COHS-368	--	--	<3	--
COHS-369	--	--	<3	--
COHS-370	--	--	<3	--
COHS-371	--	--	<3	--
COHS-372	--	--	3	--
COHS-373	--	--	<3	--
COHS-374	--	--	<3	--
COHS-375	--	--	<3	--
COHS-376	--	--	<3	--
COHS-377	--	--	<3	--
COHS-378	--	--	3	--
COHS-379	--	--	3	--
COHS-380	--	--	<3	--
COHS-381	--	--	3	--
COHS-382	--	--	<3	--
COHS-383	--	--	<3	--
COHS-384	--	--	<3	--
COHS-385	--	--	<3	--
COHS-386	--	--	<3	--
COHS-387	--	--	<3	--
COHS-388	--	--	<3	--
COHS-389	--	--	<3	--
COHS-390	--	--	3	--
COHS-391	--	--	<3	--
COHS-392	--	--	<3	--
COHS-393	--	--	<3	--
COHS-394	--	--	3	--
COHS-395	--	--	<3	--
COHS-396	--	--	<3	--
[illegible]				
[illegible]				
COHS-[illegible]	--	--	<3	--
COHS-[illegible]	--	--	<3	--
COHS-[illegible]	--	--	<3	--
COHS-[illegible]	--	--	<3	--
COHS-[illegible]	--	--	3	--
COHS-404	--	--	<3	--
COHS-405	--	--	<3	--
COHS-406	--	--	<3	--
COHS-407	--	--	<3	--
COHS-408	--	--	<3	--
COHS-409	--	--	<3	--

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
COHS-410	--	--	<3	--
COHS-411	--	--	<3	--
COHS-412	--	--	<3	--
COHS-413	--	--	3	--
COHS-414	--	--	<3	--
COHS-415	--	--	3	--
COHS-416	--	--	3	--
COHS-417	--	--	<3	--
COHS-418	--	--	<3	--
COHS-419	--	--	<3	--
COHS-420	--	--	<3	--
COHS-421	--	--	<3	--
COHS-422	--	--	<3	--
COHS-423	--	--	<3	--
COHS-424	--	--	<3	--
COHS-425	--	--	<3	--
COHS-426	--	--	<3	--
COHS-427	--	--	<3	--
COHS-428	--	--	3	--
COHS-429	--	--	5	--
COHS-430	--	--	5	--
COHS-431	--	--	3	--
COHS-432	--	--	3	--
COHS-433	--	--	<3	--
COHS-434	--	--	<3	--
COHS-435	--	--	3	--
COHS-436	--	--	3	--
COHS-437	--	--	<3	--
COHS-438	--	--	3	--
COHS-439	--	--	<3	--
COHS-440	--	--	<3	--
COHS-441	--	--	<3	--
COHS-442	--	--	3	--
COHS-443	--	--	3	--
COHS-444	--	--	<3	--
COHS-445	--	--	<3	--
COHS-446	--	--	3	--
COHS-447	--	--	<3	--
COHS-448	--	--	<3	--
COHS-449	--	--	<3	--
COHS-450	--	--	<3	--
COHS-451	--	--	3	--
COHS-452	--	--	3	--
COHS-453	--	--	<3	--
COHS-454	--	--	<3	--
COHS-455	--	--	<3	--
COHS-456	--	--	<3	--
COHS-457	--	--	<3	--
COHS-458	--	--	<3	--
COHS-459	--	--	<3	--
COHS-460	--	--	<3	--
COHS-461	--	--	<3	--
COHS-462	--	--	<3	--
COHS-463	--	--	<3	--
COHS-464	--	--	<3	--
COHS-465	--	--	<3	--

SAMPLE	AU PPB	AS PPM	SN PPM	W PPM
COHS-466	--	--	<3	--
COHS-467	--	--	<3	--
COHS-468	--	--	<3	--
COHS-469	--	--	<3	--
COHS-470	--	--	<3	--
COHS-471	--	--	<3	--
COHS-472	--	--	<3	--
COHS-473	--	--	3	--
COHS-474	--	--	5	--
COHS-475	--	--	5	--
COHS-476	--	--	<3	--
COHS-477	--	--	3	--
COHS-478	--	--	<3	--
COHS-479	--	--	<3	--
COHS-480	--	--	<3	--
COHS-481	--	--	<3	--
COHS-482	--	--	<3	--
COHS-483	--	--	<3	--
COHS-484	--	--	<3	--
COHS-485	--	--	<3	--
COHS-486	--	--	3	--
COHS-487	--	--	<3	--
COHS-488	--	--	<3	--
COHS-489	--	--	<3	--
COHS-490	--	--	<3	--
COHS-491	--	--	<3	--
COHS-492	--	--	3	--
COHS-493	--	--	<3	--
COHS-494	--	--	<3	--
COHS-495	--	--	<3	--
COHS-496	--	--	<3	--
COHS-497	--	--	<3	--
COHS-498	--	--	<3	--
COHS-499	--	--	<3	--
COHS-500	--	--	<3	--
COHS-501	--	--	<3	--
COHS-502	--	--	<3	--
COHS-503	--	--	<3	--
COHS-504	--	--	<3	--
COHS-505	--	--	<3	--
COHS-506	--	--	<3	--
COHS-507	--	--	<3	--
COHS-508	--	--	<3	--
[illegible]				
[illegible]				
[illegible]	--	--	<3	--
[illegible]	--	--	<3	--
[illegible]	--	--	<3	--
[illegible]	--	--	<3	--
[illegible]	--	--	<3	--
COHS-516	--	--	<3	--
COHS-517	--	--	<3	--
COHS-518	--	--	3	--
COHS-519	--	--	<3	--
COHS-520	--	--	<3	--
COHS-521	--	--	<3	--

SAMPLE	AU PPB*	AS PPM	SN PPM	W PPM
COHS-522	--	--	<3	--
COHS-523	--	--	<3	--
COHS-524	--	--	<3	--
COHS-525	--	--	<3	--
COHS-526	--	--	<3	--
COHS-527	--	--	<3	--
COHS-528	--	--	<3	--
COHS-529	--	--	<3	--
COHS-530	--	--	<3	--
COHS-531	--	--	<3	--
COHS-532	--	--	<3	--
COHS-533	--	--	<3	--
COHS-534	--	--	<3	--
COHS-535	--	--	<3	--
COHS-536	--	--	<3	--
COHS-537	--	--	<3	--
COHS-538	--	--	<3	--

NSS - NOT SUFFICIENT SAMPLE

C.P. / P.O. 550 147, AVENUE PERRAULT VAL D'OR, QUÉBEC J9P 4P5 TÉL. (819) 824-4337

LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE
BOURLAMAQUE ASSAY LABORATORIES LTD.

B. Hagell

ÉCHANTILLONS / SAMPLES: surface

REÇU DE / RECEIVED FROM: Air Express collect

CERTIFICAT D'ANALYSES
CERTIFICATE OF ANALYSIS

No 31570

VAL D'OR, QUÉ., July 15 19 80

ANALYSES / ASSAYS: 10 Au.

Sample No.	Au oz/ton
R - 1	0.02
R - 2	0.09
R - 3	0.01
R - 4	Trace
R - 5	Trace
R - 6	Trace
R - 7	0.01
R - 11	0.01
R - 12	0.02
R - 17	0.02

Rock Sample Assays
(Map 5)

ANALYSTE / ASSAYER

Rock Samples.

(902) 662-2377

ATLANTIC ANALYTICAL SERVICES(N.S.) LTD.

P.O. BOX 99, DEBERT, N.S., BOM 1GO

Mr. B. Mordy

Paragon Explorations
80 Richmond Street
Toronto, Ontario

CERTIFICATE NO.: 9

SAMPLES : rock samples

DATE: Aug. 20, 1980

RECEIVED FROM: C. Barrington

NUMBER OF ASSAYS 30

The results of the assays are as follows:

Sample	Au oz./ton	Sample	Au oz./ton
R20	Trace	R38	0.013
R21	Trace	R39	0.008
R22	Trace	R40	Trace
R23	Trace	R41	Trace
R24	0.025	R42	Trace
R25	Trace	R43	0.007
R26	Trace	R44	Trace
R27	Trace	R45	Trace
R28	Trace	R46	~~0.004~~ 0.01
R29	Trace	R47	Trace
R30	Trace	R48	Trace
R31	Trace	R49	Trace
R32	Trace		
R33	0.010		
R34	Trace		
R35	Trace		
R36	0.016		
R37	Trace		

Rock Sample Assays
(Map 5)

ASSAYER:

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., B0M 1G0 phone 1-902-662-2377

CERTIFICATE # 96

November 18, 1980

Paragon Explorations
R.R. #2 Aspen,
Nova Scotia

Attention: Mr. Ed Harrington

Results of analysis of 83 channel samples received on November 7, from Brian Hagell:

Lab #	Au oz/ton	Lab #	Au oz/ton
96--1	Trace	96-11	Trace
96-2	Trace	96-12	Trace
96-3	Trace	96-13	0.16
96-4	Trace	96-14	0.01
96-5	Trace	96-15	0.02
96-6	Trace	96-16	Trace
96-7	Trace	96-17	Trace
96-8	Trace	96-18	Trace
96-9	Trace	96-19	Trace
96-10	Trace	96-20	Trace

Blair Adit Channel Samples (Map 4).

D.M. Wolfe, B.Sc.
Chief Chemist
Member C.M.A., C.I.M.

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., B0M 1G0 phone 1-902-662-2377

CERTIFICATE # 96 (Cont'd)

Lab #	Au oz/ton	Lab #	Au oz/ton
96-21	Trace	96-39	Trace
96-22	Trace	96-40	Trace
96-23	Trace	96-41	Trace
96-24	Trace	96-42	0.16
96-25	Trace	96-43	Trace
96-26	Trace	96-44	Trace
96-27	Trace	96-45	Trace
96-28	Trace	96-46	Trace
96-29	Trace	96-47	Trace
96-30	Trace	96-48	Trace
96-31	Trace	96-49	Trace
96-32	Trace	96-50	Trace
96-33	Trace	96-51	Trace
96-34	Trace	96-52	0.03
96-35	Trace	96-53	Trace
96-36	Trace	96-54	0.01
96-37	Trace	96-55	Trace
96-38	Trace	96-56	Trace

D.M. Wolfe, B.Sc.
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404 scotia subdivision
p. o. box 99

debert, n. s., B0M 1G0
phone 1-902-662-2377

CERTIFICATE # 96 (Cont'd)

Lab #	Au oz/ton	Lab #	Au oz/ton
96-57	Trace	96-70	Trace
96-58	Nil	96-71	Trace
96-59	Trace	96-72	Trace
96-60	Trace	96-73	Trace
96-61	Trace	96-74	Trace
96-62	Nil	96-75	Trace
96-63	Trace	96-76	Trace
96-64	Trace	96-77	Trace
96-65	Trace	96-78	Trace
96-66	Trace	96-79	Trace
96-67	Trace	96-80	Trace
96-68	Trace	96-81	0.03
96-69	Trace	96-82	Trace
		96-83	Trace

D.M. Wolfe, B.Sc.
Chief Chemist
Member C.M.A., C.I.M.

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., BOM 1GO phone 1-902-662-2377

CERTIFICATE # 120

December 5, 1980

Paragon Explorations
R.R. # 2,
Aspen,
Nova Scotia

Attention: Mr. Ed Harrington

Results of analysis of reruns on samples received on Nov. 7/80, requested by Mr. Ed Harrington by phone on December 4, 1980:

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
120-1	5	Trace	120-12	21	Trace
120-2	6	Trace	120-13	30	Trace
120-3	7	Trace	120-14	31	Trace
120-4	8	Trace	120-15	37	Trace
120-5	12	Trace	120-16	38	Trace
120-6	13	0.02	120-17	41	Trace
120-7	14	Trace	120-18	42	Trace
120-8	15	0.10	120-19	43	Trace
120-9	16	Trace	120-20	47	Trace
120-10	19	Trace	120-21	48	Trace
120-11	20	Trace	120-22	49	Trace

Blair Adit Reruns of 22 samples rec'd Nov 7/80.

D.M. Wolfe

D.M. Wolfe, B.Sc.
Chief Chemist
Member C.M.A., C.I.M.

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., B0M 1G0 phone 1-902-662-2377

CERTIFICATE # 120 cont'd

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
120-23	50	Trace	120-31	74	Trace
120-24	51	Trace	120-32	77	Trace
120-25	52	0.01	120-33	78	Trace
120-26	53	Trace	120-34	79	Trace
120-27	54	Trace	120-35	80	Trace
120-28	71	Trace	120-36	81	0.01
120-29	72	Trace	120-37	82	Trace
120-30	73	Trace			

D.M. Wolfe, B.Sc.
Chief Chemist
Member C.M.A., C.I.M.

chip samples Blair Adit

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants
404 scotia subdivision p. o. box 99
debert, n. s., BOM 1GO phone 1-902-662-2377

CERTIFICATE # 174

February 18, 1981

Paragon Explorations
R.R. # 2 Aspen,
Nova Scotia
BOH 1Eo

Attention: Mr. Ed. Harrington

Result s of analysis of 44 chip samples received from Mr. Brian Hagell on January 23, 1981:

Lab #	Client #	Au oz/ton
174-1	1Ab	Trace
174-2	2Ab	Trace
174-3	3Ab	0.04
174-4	4Ab	0.01
174-5	5Ab	Trace
174-6	6Ab	Trace
174-7	7Ab	Trace
174-8	8Ab	0.02
174-9	9Ab	0.01
174-10	10Ab	Nil
174-11	11Ab	Trace
174-12	12Ab	Trace
174-13	13Ab	Trace
174-14	14A	0.65
174-15	15A	0.07
174-16	16A	Trace
174-17	18A	0.02
174-18	19A	0.02
174-19	20A	Trace
174-20	30A	Trace
174-21	31-A	Trace
174-22	37A	Trace

* sample 1A ⇒ sample 1b etc

D M Wolfe

D.M. Wolfe, B.Sc.
Chief Chemist
Member C.M.A., Q.I.M.

Blair Adit Channel Samples - Quartz veining only (Map 4).

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., BOM 1GO phone 1-902-662-2377

CERTIFICATE # 174 Cont'd

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
174-23	38A	0.01	174-34	54A	Trace
174-24	41A	0.02	174-35	71A	0.01
174-25	42A	0.09	174-36	72A	Trace
174-26	43A	Trace	174-37	73A	Trace
174-27	47A	Trace	174-38	74A	0.02
174-28	48A	0.01	174-39	77A	Trace
174-29	49A	Trace	174-40	78A	Trace
174-30	50A	Trace	174-41	79A	Trace
174-31	51A	0.08	174-42	80A	Trace
174-32	52A	Trace	174-43	81A	Trace
174-33	53A	Trace	174-44	82A	Trace

D.M. Wolfe, B.Sc.
Chief Chemist
Member C.M.A., C.I.M.

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Geochemical Lab Report

Extraction Au-HNO_3-HCl

Method FA-AA

Fraction Used -80 mesh

Report No. 1361-80

From Northumberland Mines Limited

Date August 5, 19 80

SAMPLE NO.		Au ppb			SAMPLE NO.		Au ppb		
COHA-1		80			COHA-32		190		
2		25			33		55		
3		445			34		10		
4		125							
5		20							
6		50							
7		170							
8		60							
9		25							
10		10							
11		5							
12		L5							
13		L5							
14		L5							
15		5							
16		L5							
17		L5							
18		10							
19		10							
20		5							
21		10							
22		35							
23		210							
24		20							
25		55							
26		20							
27		55							
28		30							
29		15							
30		55							
31		110							

L means less than

DETECTION LIMITS FOR GOLD

10 gram sample 5 ppb.

5 gram sample 10 ppb.

1 gram sample 50 ppb.

Detection Limit defined as Twice Background.

Sample Wt. 10g. unless otherwise stated.

Humus Sample Results (Map.)

BONDAR-. LEGG & COMF \NY LTD.

Geochemical Lab Report

Report No. 1595-80

Page No. 3

SAMPLE NO.		Au ppb			SAMPLE NO.		Au ppb		
COHA-H-555		20			COHA-H-591		5		
56		15			92		35		
57		20			93		35		
58		15			94		25		
59		10			95		20		
60		10			96		20		
61		5			97		10		
62		40			98		20		
63		15			99		25		
64		10			600		35		
65		5			01		50		
66		10			02		30		
67		20			03		20		
68		5			04		15		
69		25			05		15		
70		15			06		15		
71		40			07		20		
72		55			08		35		
73		35			09		15		
74		50			10		20		
75		35			11		15		
76		45							
77		20							
78		20			Note: L - Less Than				
79		20							
80		20							
81		25							
82		30							
83		20							
84		40							
85		5							
86		L5							
87		10							
88		25							
89		45							
90		20							

BONDAR-. LEGG & COMF \NY LTD.

Geochemical Lab Report

Report No. 1595-80

SAMPLE NO.		Au ppb			SAMPLE NO.		Au ppb		
COHA-H-483		15			COHA-H-519		15		
84		5			20		25		
85		20			21		10		
86		10			22		15		
87		15			23		10		
88		10			24		15		
89		25			25		40		
90		35			26		25		
91		10			27		30		
92		30			28		40		
93		25			29		25		
94		10			30		10		
95		20			31		10		
96		20			32		15		
97		20			33		15		
98		20			34		10		
99		70			35		15		
500		50			36		80		
01		40			37		L5		
02		35			38		10		
03		55			39		L5		
04		95			40		L5		
05		10			41		10		
06		55			42		5		
07		10			43		5		
08		10			44		10		
09		5			45		15		
10		20			46		30		
11		5			47		20		
12		5			48		15		
13		L5			49		20		
14		15			50		15		
15		10			51		10		
16		10			52		15		
17		10			53		15		
18		40			54		20		

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Geochemical Lab Report

Extraction: $Au-HNO_3-HCl$ Report No.: 1595-80

Method: F.A.-A.A. From: Paragon Mining Limited

Fraction Used: -80 mesh Date: September 16, 19 80

SAMPLE NO.		Au ppb			SAMPLE NO.		Au ppb		
COHA-H-421		5			COHA-H-452		40		
22		L5			53		20		
23		5			54		15		
24		5			55		50		
25		5			56		10		
26		5			57		15		
27		5			58		15		
28		35			59		30		
29		20			60		15		
30		10			61		5		
31		50			62		35		
32		15			63		25		
33		15			64		5		
34		5			65		L5		
35		15			66		15		
36		5			67		10		
37		15			68		5		
38		15			69		15		
39		15			70		5		
40		20			71		15		
41		35			72		20		
42		L5			73		5		
43		5			74		10		
44		5			75		15		
45		25			76		20		
46		10			77		25		
47		5			78		25		
48		20			79		20		
49		20			80		15		
50		10			81		15		
51		5			82		25		

BONDAR- CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 1594-80

SAMPLE NO.		Au ppb			SAMPLE NO.		Au ppb		
COHA-H-363		20			COHA-H-399		25		
64		15			400		25		
65		30			01		25		
66		10			02		40		
67		25			03		55		
68		15			04		35		
69		10			05		35		
70		25			06		65		
71		15			07		80		
72		20			08		70		
73		L5			09		25		
74		5			10		10		
75		15			11		L5		
76		5			12		5		
77		15			13		5		
78		45			14		L5		
79		10			15		L5		
80		40			16		L5		
81		20			17		5		
82		20			18		10		
83		5			19		5		
84		L5			20		5		
85		5			L - Less Than				
86		10							
87		10							
88		10			DETECTION LIMITS FOR GOLD				
89		25			10 gram sample		5 ppb.		
90		20			5 gram sample		10 ppb.		
91		5			1 gram sample		50 ppb.		
92		10			Detection Limit defined as Twice Background.				
93		10			Sample Wt. 10g. unless otherwise stated.				
94		15							
95		15							
96		15							
97		25							
98		20							

BONDAR- CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No.: 1494-80

Page No.: 2

SAMPLE NO.		Au ppb			SAMPLE NO.		Au ppb		
COHA-H-291		15			COHA-H-327		55		
92		35			28		15		
93		40			29		35		
94		45			30		L5		
95		35			31		L5		
96		30			32		L5		
97		35			33		35		
98		10			34		5		
99		50			35		L5		
300		30			36		10		
01		55			37		5		
02		40			38		L5		
03		10			39		10		
04		15			40		5		
05		5			41		10		
06		5			42		5		
07		35			43		20		
08		5			44		5		
09		55			45		5		
10		65			46		5		
11		10			47		10		
12		10			48		5		
13		10			49		5		
14		25			50		5		
15		30			51		15		
16		25			52		20		
17		10			53		25		
18		5			54		45		
19		10			55		5		
20		40			56		5		
21		25			57		45		
22		L5			58		30		
23		L5			59		20		
24		L5			60		5		
25		L5			61		75		
26		I.S. Insufficient Sample			62		15		

0-26

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Geochemical Lab Report

Extraction Au-HNO_3-HCl

Method F.A.-A.A.

Fraction Used -80 mesh

Report No. 1594-80

From Paragon Mining Limited

Date September 10, 19 80

SAMPLE NO.		Au ppb			SAMPLE NO.		Au ppb		
COHA-H-229		10			COHA-H-260		25		
30		L5			61		30		
31		L5			62		L5		
32		L5			63		25		
33		L5			64		30		
34		L5			65		90		
35		L5			66		45		
36		20			67		15		
37		10			68		L5		
38		10			69		15		
39		15			70		5		
40		15			71		15		
41		35			72		10		
42		15			73		15		
43		40			74		15		
44		35			75		15		
45		35			76		L5		
46		45			77		20		
47		35			78		10		
48		30			79		15		
49		15			80		85		
50		10			81		L5		
51		10			82		10		
52		10			83		20		
53		15			84		15		
54		20			85		25		
55		30			86		25		
56		30			87		65		
57		40			88		20		
58		15			89		30		
59		25			90		30		

BONDAR- CLEGG & COMPANY LTD.

Geochemical Lab Report

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Page No. 3

SAMPLE NO.		Au ppb			SAMPLE NO.		Au ppb		
COHA-L-169		L5			COHA-H-206		10		
70		L5			07		5		
71		25			08		5		
72		L5			09		15		
73		L5			10		L5		
74		5			11		5		
75		5			12		L5		
77		5			13		5		
78		L5			14		L5		
79		L5			15		L5		
80		L5			16		5		
81		L5			17		10		
82		L5			18		5		
83		L5			19		15		
84		L5			20		25		
85		L5			21		5		
86		L5			22		L5		
87		5			23		L5		
88		5			24		L5		
89		L5			25		L5		
90		5			26		L5		
91		L5			27		L5		
92		15			28		L5		
93		5							
94		25					L means less than		
95		10							
96		20							
97		15							
98		5							
99		L5							
200		L5							
01		L5							
02		5							
03		5							
04		L5							
05		L5							

BONDAR- CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 1593-80

Page No. 2

SAMPLE NO.		Au ppb			SAMPLE NO.		Au ppb		
COHA-H-97		5			COHA-H-133		L5		
98		5			34		L5		
99		5			35		L5		
100		15			36		L5		
01		15			37		5		
02		15			38		L5		
03		5			39		L5		
04		40			40		L5		
05		320			41		35		
06		L5			42		20		
07		10			43		L5		
08		L5			44		L5		
09		10			45		L5		
10		10			46		L5		
11		5			47		5		
12		L5			48		L5		
13		L5			49		L5		
14		L5			50		L5		
15		L5			51		L5		
16		L5			52		L5		
17		10			53		5		
18		5			54		L5		
19		20			55		L5		
20		L5			56		L5		
21		L5			57		15		
22		5			58		L5		
23		L5			59		5		
24		L5			60		L5		
25		L5			61		L5		
26		10			62		5		
27		10			63		5		
28		5			64		L5		
29		L5			65		L5		
30		115			66		175		
31		25			67		95		
32		L5			68		115		

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Geochemical Lab Report

Extraction Au-HNO_3-HCl

Method FA-AA

Fraction Used -80 mesh

Report No. 1593-80

From Paragon Mining Limited

Date August 29, 19 80

SAMPLE NO.		Au ppb			SAMPLE NO.		Au ppb		
COHA-H- 35		10			COHA-H-66		5		
36		5			67		15		
37		5			68		15		
38		L5			69		L5		
39		5			70		L5		
40		L5			71		L5		
41		60			72		160		
42		L5			73		320		
43		L5			74		60		
44		L5			75		500		
45		L5			76		160		
46		L5			77		25		
47		L5			78		35		
48		L5			79		L5		
49		25			80		L5		
50		5			81		L5		
51		5			82		L5		
52		L5			83		55		
53		L5			84		75		
54		5			85		30		
55		25			86		5		
56		5			87		40		
57		5			88		320		
58		L5			89		90		
59		L5			90		475		
60		L5			91		20		
61		L5			92		10		
62		5			93		L5		
63		5			94		L5		
64		L5			95		L5		
65		20			96		L5		

APPENDIX IV

QUARTZ VEIN ASSAYS

Orally

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants
404 scotia subdivision p. o. box 99
debert, n. s., B0M 1G0 phone 1-902-662-2377

CERTIFICATE # 175

February 18, 1981

Paragon Explorations
R.R. # 2,
Aspen, N.S.
B0H 1E0

Attention: Mr. Ed Harrington

Results of analysis of 22 split core samples received from Brian Hagell on January 23, 1981:

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
175-1	2448	Trace	175-12	2459	Trace
175-2	2449	Trace	175-13	2460	Trace
175-3	2450	Trace	175-14	2461	Trace
175-4	2451	Nil	175-15	2462	Trace
175-5	2452	Trace	175-16	2463	Trace
175-6	2453	Trace	175-17	2464	Trace
175-7	2454	Trace	175-18	2465	Nil
175-8	2455	Nil	175-19	2466	Trace
175-9	2456	Trace	175-20	2467	Trace
175-10	2457	Trace	175-21	2468	Trace
175-11	2458	Trace	175-22	2469	0.02

↑ COHA 2

Analysis results for COHA-2

D.M. Wolfe

D.M. Wolfe, B.Sc.
Chief Chemist
Member C.M.A., C.I.M.

Atlantic Analytical Services (N.S.) Ltd.

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404 scotia subdivision p. o. box 99

debert, n. s., BOM 1GO phone 1-902-662-2377

CERTIFICATE # 207

March 5, 1981
Page 1

Paragon Explorations
P.O. Box 120,
Sherbrook, N.S.
BOJ 3C0

Attention: Mr. Ed Harrington

Results of analysis of 41 split core samples received on February 6, 1981:

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
207-1	2538	0.11	207-13	2550	Trace
207-2	2539	Trace	207-14	2551	Trace
207-3	2540	Trace	207-15	2552	Trace
207-4	2541	0.04	207-16	2553	Trace
207-5	2542	Trace	207-17	2559	Trace
207-6	2543	Trace	207-18	2560	Trace
207-7	2544	Trace	207-19	2561	0.01
207-8	2545	0.08	207-20	2562	Trace
207-9	2546	Trace	207-21	2563	Trace
207-10	2547	0.03	207-22	2564	0.01
207-11	2548	Trace	207-23	2565	Trace
207-12	2549	Trace	207-24	2566	0.02

Results of analysis for DDH core 3

D M Wolfe

D.M. Wolfe, B.Sc.
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phone 1-902-662-2377

CERTIFICATE # 211

March 5, 1981

Paragon Explorations
P.O. Box 120,
Sherbrook, N.S.
BOJ 3CO

Attention: Mr. Ed Harrington

Results of analysis of 24 core samples received February 16, 1981:

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
211-1	2585	Trace	211-13	2641	Trace
211-2	2595	Trace	211-14	2642	Trace
211-3	2596	0.01	211-15	2643	Trace
211-4	2597	Trace	211-16	2644	Trace
211-5	2598	Trace	211-17	2645	0.01
211-6	2599	Trace	211-18	2646	Trace
211-7	2600	Trace	211-19	2647	Trace
211-8	2601	0.01	211-20	2648	Trace
211-9	2637	Trace	211-21	2649	Trace
211-10	2638	Trace	211-22	2650	Trace
211-11	2639	Trace	211-23	2651	Trace
211-12	2640	Trace	211-24	2652	0.03

Results of Analyses for
DDH CONN 3

D M Wolfe

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404 scotia subdivision p. o. box 99

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CERTIFICATE # 209

March 5, 1981

Paragon Explorations
P.O. Box 120,
Sherbrook, N.S.
BOJ 3C0

Attention: Mr. Ed Harrington

Results of analysis of 32 drill core samples received on February 23/81:

Lab #	Client #	Au oz/ton
209-1	2653	0.01
209-2	2654	Trace
209-3	2655	0.01
209-4	2656	0.10
209-5	2657	0.08
209-6	2658	0.06
209-7	2659	Trace
209-8	2660	0.37
209-9	2661	0.13
209-10	2662	0.13
209-11	2663	0.01
209-12	2664	0.11
209-13	2665	Trace
209-14	2666	Trace
209-15	2667	Trace
209-16	2668	Trace
209-17	2669	Trace
209-18	2670	0.01
209-19	2671	Trace
209-20	2672	Trace

Results of Analysis for DDH-Core #4

D.M. Wolfe, B.Sc.
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analysts & chemical consultants

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CERTIFICATE # 207 Cont'd

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
207-26	2568	0.01	207-34	2576	0.04
207-27	2569	Trace	207-35	2577	Trace
207-28	2570	Trace	207-36	2578	Trace
207-29	2571	Trace	207-37	2579	Trace
207-30	2572	Trace	207-38	2580	Trace
207-31	2573	0.01	207-39	2581	Trace
207-32	2574	Trace	207-40	2582	Trace
207-33	2575	Trace	207-41	2583	Trace

Lab #	Client #	Total Wt. Sample	Assay Wt.	+80 Au oz/ton	-80 Au oz/ton	Calculated Sample Au oz/ton
207-25	2567	210	29.16	4.68	2.08	2.44

D.M. Wolfe

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404 scotia subdivision p. o. box 99
debert, n. s., BOM 1GO phone 1-902-662-2377

CERTIFICATE # 189

Paragon Explorations
P.O. Box 120,
Sherbrook, N.S.
BOJ 3C0

Attention: Mr. Ed Harrington

Results of analysis of 24 split core samples received on February 2, 81

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
189-1	2470	Trace	189-13	2519	Trace
189-2	2508	Trace	189-14	2520	0.01
189-3	2509	Trace	189-15	2521	Trace
189-4	2510	0.02	189-16	2522	Trace
189-5	2511	Trace	189-17	2523	Trace
189-6	2512	Trace	189-18	2524	Trace
189-7	2513	Trace	189-19	2525	Trace
189-8	2514	trace	189-20	2526	0.05
189-9	2515	Trace	189-21	2527	Trace
189-10	2516	Nil	189-22	2528	Trace
189-11	2517	Trace	189-23	2529	0.03
189-12	2518	Trace	189-24	2530	Trace

Results of Analysis for COHN-4

D.M. Wolfe

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Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., BOM 1GO phone 1-902-662-2377

CERTIFICATE # 209 Cont'd

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
209-21	2673	Trace	209-27	2679	Trace
209-22	2674	Trace	209-28	2680	Nil
209-23	2675	Trace	209-29	2681	Nil
209-24	2676	Trace	209-30	2682	Trace
209-25	2677	Trace	209-31	2683	Trace
209-26	2678	Trace	209-32	2684	Trace

CONT'd

D.M. Wolfe

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Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., BOM 1GO phone 1-902-662-2377

CERTIFICATE # 214

March 9, 1981

Paragon Explorations
P.O. Box 120,
Sherbrook, N.S.
BOJ 3C0

Attention: Mr. Ed Harrington

Results of analysis of 33 split core samples received on February 27, 1981:

Lab #	Client#	Au oz/ton	Lab #	Client #	Au oz/ton
214-1	2689	Trace	214-13	2701	Trace
214-2	2690	0.01	214-14	2702	Trace
214-3	2691	0.01	214-15	2703	Trace
214-4	2692	Trace	214-16	2704	Trace
214-5	2693	Trace	214-17	2705	Trace
214-6	2694	Trace	214-18	2706	Trace
214-7	2695	0.05	214-19	2707	Trace
214-8	2696	Trace	214-20	2708	Trace
214-9	2697	Trace	214-21	2709	Trace
214-10	2698	Trace	214-22	2710	Trace
214-11	2699	Trace	214-23	2711	Trace
214-12	2700	Trace	214-24	2712	Trace

D M Wolfe

D.M. Wolfe, B.Sc.
Chief Chemist
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Results of Analysis
for DDH CO[illegible]-5

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., B0M 1G0 phone 1-902-662-2377

CERTIFICATE # 214 Cont'd

Lab #	Client #	Au oz/ton
214-25	2713	0.09
214-26	2714	Trace
214027	2715	Trace
214-28	2716	Trace
214-29	2717	Trace
214-30	2718	Trace
214-31	2719	Trace
214-32	2720	Trace
214-33	2721	Trace

D M Wolfe

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Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., BOM 1GO phone 1-902-662-2377

CERTIFICATE # 222

March 16, 1981

Paragon Explorations
P.O. Box 120,
Sherbrooke, N.S.
BOJ 3C0

Attention: Mr. Ed Harrington

Results of analysis of 29 core samples received March 9, 1981:

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
222-1	2722	Trace	222-15	2736	Trace
222-2	2723	Trace	222-16	2737	Trace
222-3	2724	0.01	222-17	2738	Trace
222-4	2725	Trace	222-18	2739	Trace
222-5	2726	Trace	222-19	2740	Trace
222-6	2727	Trace	222-20	2741	Trace
222-7	2728	Trace	222-21	2742	Trace
222-8	2729	Trace	222-22	2743	Trace
222-9	2730	Trace	222-23	2744	0.04
222-10	2731	Trace	222-24	2745	Trace
222-11	2732	Trace	222-25	2746	0.02
222-12	2733	Trace	222-26	2747	Trace
222-13	2734	Trace	222-27	2748	Trace
222-14	2735	Trace	222-28	2749	Trace
			222-29	2750	0.01

D.M. Wolfe

D.M. Wolfe, B.Sc.
Chief Chemist
Member C.M.A., C.I.M.

Results of Analysis for DDH COHN-6

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants
404 scotia subdivision p. o. box 99
debert, n. s., BOM 1GO phone 1-902-662-2377

CERTIFICATE # 232

March 20, 1981

Paragon Explorations
P.O. Box 220,
Sherbrooke, N.S.
BOJ 3C0

Attention: Mr. Ed Harrington

Results of analysis of 60 split core samples received March 16, 1981:

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
232-1	2759	Trace	232-15	2773	Trace
232-2	2760	Trace	232-16	2774	Trace
232-3	2761	Trace	232-17	2775	Trace
232-4	2762	Trace	232-18	2776	Trace
232-5	2763	Trace	232-19	2781	Trace
232-6	2764	Trace	232-20	2782	Trace
232-7	2765	0.03	232-21	2784	Trace
232-8	2766	0.01	232-22	2785	Trace
232-9	2767	0.03	232-23	2786	Trace
232-10	2768	0.01	232-24	2787	0.01
232-11	2769	Trace	232-25	2788	0.01
232-12	2770	Trace	232-26	2789	Trace
232-13	2771	Trace	232-27	2790	0.01
232-14	2772	Trace	232-28	2791	0.01

D.M. Wolfe

D.M. Wolfe, B.Sc.
Chief Chemist
Member C.M.A., C.I.M.

Results of Analysis for DDH CO81-7

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., B0M 1G0 phone 1-902-662-2377

CERTIFICATE # 232 Cont'd

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
232-29	2792	0.02	232-45	2808	Trace
232-30	2793	0.01	232-46	2809	Trace
232-31	2794	Trace	232-47	2810	Trace
232-32	2795	0.04	232-48	2811	Trace
232033	2796	Trace	232-49	2812	0.01
232-34	2797	Trace	232--50	2813	Trace
232-35	2798	Trace	232-51	2814	Trace
232-36	2799	Trace	232-52	2815	Trace
232-37	2800	Trace	232-53	2816	Trace
232-38	2801	Trace	232-54	2817	Trace
232-39	2802	Trace	232-55	2818	Trace
232-40	2803	0.03	232-56	2819	Trace
232-41	2804	Trace	232-57	2820	Trace
232-42	2805	Trace	232-58	2821	Trace
232-43	2806	Trace	232-59	2822	Trace
232-44	2807	Trace	232-60	2823	Trace

D.M. Wolfe, B.sc.
Chief Chemist
Member C.M.A., C.I.M.

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., B0M 1G0 phone 1-902-662-2377

CERTIFICATE # 239

April 1, 1981

Paragon Explorations
P.O. Box 120,
Sherbrooke, N.S.
B0J 3C0

Attention: Mr. Ed Harrington

Results of analysis of 63 split core samples received March 23, 1981:

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
239-1	2824	Trace	239-14	2837	Trace
239-2	2825	Trace	239-15	2838	Trace
239-3	2826	Trace	239-16	2839	Trace
239-4	2827	0.01	239-17	2840	0.02
239-5	2828	Trace	239-18	2841	Trace
239-6	2829	Trace	239-19	2842	Trace
239-7	2830	Trace	239-20	2843	Trace
239-8	2831	Trace	239-21	2844	Trace
239-9	2832	Trace	239-22	2845	Trace
239-10	2833	Trace	239-23	2846	Trace
239-11	2834	Trace	239-24	2847	Trace
239-12	2835	Trace	239-25	2848	Trace
239-13	2836	Trace	239-26	2849	Trace

D M Wolfe

D.M. Wolfe, B.Sc.
Chief Chemist
Member C.M.A., C.I.M.

Results of Analysis for
DDH COM-6

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., B0M 1G0 phone 1-902-662-2377

CERTIFICATE # 239 Cont'd

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
239-27	2850	Trace	239-43	2866	Trace
239-28	2851	Trace	239-44	2867	Trace
239-29	2852	Trace	239-45	2868	0.02
239-30	2853	Trace	239-46	2869	Trace
239-31	2854	Trace	239-47	2870	Trace
239-32	2855	0.01	239-48	2871	Trace
239-33	2856	0.20	239-49	2872	Trace
239-34	2857	0.01	239-50	2873	Trace
239-35	2858	Trace	239-51	2874	Trace
239-36	2859	Trace	239-52	2875	Trace
239-37	2860	Trace	239-53	2876	Trace
239-38	2861	Trace	239-54	2877	0.01
239-39	2862	Trace	239-55	2878	Trace
239-40	2863	Trace	239-56	2879	Trace
239-41	2864	Trace	239-57	2880	Trace
239-42	2865	Trace	239-58	2881	Trace

D.M. Wolfe, B.Sc.
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debert, n. s., BOM 1GO phone 1-902-662-2377

CERTIFICATE # 239 Cont'd

Lab #	Client #	Au oz/ton
239-59	2882	Trace
239-60	2883	Trace
239-61	2884	Trace
239-62	2885	Trace
239-63	2886	0.02

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debert, n. s., BOM 1GO phone 1-902-662-2377

CERTIFICATE # 257

April 8, 1981

Paragon Explorations
P.O. Box 120,
Sherbrooke, N.S.
B0J 3C0

Attention: Mr. Ed Harrington

Results of analysis of 53 split core samples received from Brian Hagell on April 7, 1981:

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
257-1	2887	0.03	157-13	2899	0.01
257-2	2888	0.01	157-14	2900	0.01
257-3	2889	0.01	157-15	3011	Trace
257-4	2890	Trace	157-16	3012	Trace
257-5	2891	Trace	157-17	3013	Trace
257-6	2892	Trace	157-18	3014	0.01
257-7	2893	0.01	157-19	3015	Trace
257-8	2894	0.01	157-20	3016	0.01
257-9	2895	Trace	157-21	3017	Trace
257-10	2896	Trace	157-22	3018	0.01
257-11	2897	Trace	157-23	3019	0.01
257-12	2898	Trace	157-24	3020.	0.01

D.M. Wolfe, B.Sc.
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Results of Analysis
for DOH core-9

Atlantic Analytical Services (N.S.) Ltd.

analysts & chemical consultants

404 scotia subdivision p. o. box 99

debert, n. s., B0M 1G0 phone 1-902-662-2377

CERTIFICATE # 257 Cont'd

Lab #	Client #	Au oz/ton	Lab #	Client #	Au oz/ton
257-25	3021	0.10	257-39	3035	Trace
257-26	3022	0.22	257-40	3036	0.01
257-27	3023	Trace	257-41	3037	Trace
257-28	3024	0.04	257-42	3038	Trace
257-29	3025	Trace	257-43	3039	0.01
257-30	3026	0.02	257-44	3040	0.02
257-31	3027	0.08	257-45	3041	Trace
257-32	3028	0.01	257-46	3042	0.03
257-33	3029	Trace	257-47	3043	0.02
257-34	3030	0.01	257-48	3044	Trace
257-35	3031	0.01	257-49	3045	0.03
257-36	3032	Trace	257-50	3046	0.02
257-37	3033	Trace	257-51	3047	Trace
257-38	3034	Trace	257-52	3048	Trace
			257-53	3049	0.01

D.M. Wolfe, B.Sc.,
Chief Chemist
Member C.M.A., C.I.M.

APPENDIX V

BIBLIOGRAPHY

Bibliography

1938 Cameron, Harcourt: "Preliminary Geologic Report, Johnson Brook Area, Country Harbour Mines, Guysboro Co., Nova Scotia Department of Mines, 1938.

APPENDIX III

DIAMOND DRILL HOLE LOGS

APPENDIX III

DIAMOND DRILL HOLE LOGS

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour
HOLE NO. COHA 2 LENGTH 480.5
LOCATION 40+88N/9+00W
LATITUDE _____ DEPARTURE _____
ELEVATION 1282.0 AZIMUTH 242° DIP 65°
STARTED Jan. 16, 1981 FINISHED Jan. 22. 1981

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100.0	63°				
300.0	63°				
480.5	59°				

HOLE NO. COHA 2 SHEET NO. 1 of 8
REMARKS AQ Dixon Diamond Drilling

434153

LOGGED BY B. Kelly

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0.0	15.5	overburden (ground up till, biotite garnite, musc schist)									
15.5	51.3	interbedded massive gwke and musc. biotite schist to sections of injected calc silicate									
20.0	24.5	18.0 fault gouge									
24.5	26.5	siliceous chloritic greywacke, massive, intersected by qtz stringers (irregular in orientation) with muscovite sericite schist. foliated @70°. staurolite (c. gr.) in a linear arrangement parellal to foliation. orange-rust staining irregular thin qtz veinlets.									
26.5	51.3	gwke to sections of schist. 39.4 1.0" calc silicate 42.5 2.0" calc silicate. 43.7 5.0" calc silicate. 49.6 0.5" qtz @77° thin blebs of pyrite.									
51.3	55.0	musc-biotite schist. gouge @54.5°. fracturing @85°									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 2 SHEET NO. 2 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
55.0	75.0	gwke ~~to~~ irregular schistose sections (weakly foliated @75°). gwke intensely brecciated locally @ 59.0-61.8'. 17.0-81.5 extensive broken up, fractured core @70°-80°. 66.2 4.0" calc silicate @83°									
75.0	155.0	biotite muscovite schist ~~to~~ sections of weakly foliated gwke. gwke brecciated @79.0' by qtz stringering. foliation @33°. 33.0 small massive blebs of pyrite. rust staining on fracture @65° 105.0 1.0" calc silicate, garnetiferous @75°. 110.0 foliation of schist @75°. 113.0 foliation @82°. < .5" qtz @82° pyrite to qtz. 114.0 massive pyrite veinlet @82°. 115.0 fault gouge @90°. 120.0 massive calcite veinlets @65°,77°. 121.0 short, lenticmlar qtz veins @77°,65°. 123.0 short lenticular qtz veinlets @79°. 124.5 pyrite flakes parallel to schistosity. 125.0 qtz @84° qtz @ .2".									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 2 SHEET NO. 3 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		129.0 1.5" calc silicate @85° calc stringers @65 - 70°.									
		131.0 calcite stringering @85° calcite coating fractures									
		massive pyrite blebs coating fracture @85°.									
		132.5 pyrite coating fracture @45°.									
		144.5 <.5" qtz @90°.									
		145.0 fault gouge @80°									
		146.0 pyrite stringers filling fracture irregularly									
		146.0 foliation of schist @80° pyrite frequently coating									
		fractures. broken up core @ 145.0-146.1"									
		147.0 qtz @78°									
		151.0 fault gouge @85°									
		152.0 6.0" calc silicate @80°. garnetiferous silicate.									
		153.3 qtz @90° arsenopyr									
		154.0 qtz @80°									
155.0	157.0	siliceous chloritic, locally garnetiferous. qtz stringers									
		commonly @65° irregular calcite to pyrite stringers.									
157.0	193.5	muscovite biotite schist to sections of gwke									
		157.0 - 159.0 pyrite stringers, blebs @ 159.0. small blebs									
		of pyrite in calc silicate @160.0'.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 2 SHEET NO. 4 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		158.0-164.0 core fractured @78°									
		173.5 4" qtz @85° pyrite stringers.	2384		173.5	174.5	1.0			Tr	
		175.0 fault gouge @ approx 90° foliation of gwke @78°									
		179.0 qtz @78° pyrite blebs									
		188.2 qtz to felsic material filling fracture @75°									
		188.0-189.2 brecciated siliceous schist.									
193.5	202.9	qtz veining to msections of schist and gwke									
		193.5 1.5" qtz pyrite									
		198.0 1.0" qtz @90°. pyrite filled qtz fractures.									
		201.0 2.0" qtz @90°. pyrite.	2385		200.5	201.5	1.0			Tr	
		202.5 3.5" qtz @82°. pyrite, schist fragments contained in qtz.	2386		202.2	203.7	1.5			Tr	
202.9	252.0	biotite muscovite schist to sections of greywacke, d. quartzite, siliceous greywacke. schist-staurolite, garnetiferous irregularly over 202.9-252.0. staurolitegrains oriented to foliated, foliation @80°									
		227.0 pyrite, galena grains exposed on broken core.	2448		226.5	227.5	1.0			Tr	
		227.2 qtz @80°. pyrite (f. g.r blebs)									
		227.5 pyrite stringer @80°									
		230.5 0.5" qtz @80° pyrite stringer @65° in local, schist.	2449		230.0	231.0	1.0			Tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 2 SHEET NO. 5 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		232.0 gouge @72°									
		232.5 4.0" calc silicate @90° pyrite, galena grain infilling cavities in silicate.									
		234.0 .5" qtz @80° pyrite.									
		240.0 <.5 qtz @80° qtz offset .3" to left.									
		240.5 fault gouge @80°									
		241.5 7.0" calc silicate, galena, pyrite, stringers and f. grains mineraliz silicate. calcite stringering.									
		246.0 2.0" calc silicate @80°. pyrite @ wall rock contact									
		251.0 fault gouge @80°									
252.0	270.0	grey qtzite to sections of biotite muscovite schist									
		256.0 1.0" calc silicate @80° pyrite @ wall rock contact									
		259.0 1.0" qtz pyrite @ wall rock contact.	2450		258.5	259.5	1.0			Tr	
		261.5 0.5" qtz @ 90° qtz offset 1/16" to left. thin chloritic green stringers in qtz. pyrite irregularly observed in stringers.	2451		261.0	262.0	1.0			Tr	
		265.0 4.0" calc silicate @90°	2452		266.0	267.0	1.0			Tr	
		268.0 calcite coating broken core @45°									
270.0	352.0	biotite muscovite schist to sections of greywacke.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 2 SHEET NO. 6 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		270.0 fault gouge @75°									
		274.0 2.0" calc silicate @85°									
		276.5 <.5" qtz @85° pyrite	2453		276.0	277.0	1.0			Tr	
		279.5 calcite silicate @55° pyrite bleb									
		281.5 1.5 qtz @85°, pyrite coating broken qtz core.	2454		281.0	282.0	1.0			Tr	
		284.5 1.0" calc silicate @85°									
		289.0 4.0" calc silicate @90°.									
		301.0 fault gouge @90°									
		304.0 .5" qtz @85°. scattered pyrite.	2455		304.3	306.8	2.5			Tr	
		313.0 .5" qtz @85°	2456		312.5	313.5	1.0			Tr	
		314.0 .5" qtz @90°. minor pyrite	2457		314.0	315.0	1.0			Tr	
		320.0 1.5" calc silicate @90°									
		325.0 1.5 calc silicate @90°. calcite stringers.									
		330.0 6.0" calc silicate @90°									
		333.0 < .5" qtz @80° brecciated schist between 332.0-342.0'	2458		332.5	333.5	1.0			Tr	
		335.0 fault gouge @75°									
		338.0 <1.0" qtz @80°.	2459		337.5	338.5	1.0			Tr	
		342.0 .5" qtz @90°. pyrite	2460		341.5	342.5	1.0			Tr	
		349.0 3.0" calc silicate. calcite stringering. greywacke.	2461		349.0	350.0	1.0			Tr	
		brecciated between 347.3-348.0. pyrite, galena infilling small fractures in silicate.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 2 SHEET NO. 7 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		350.0 pyrite coating shear @75°								Tr	
		353.0 fault gouge @80°	2462		357.5	358.5	1.0				
		358.0 .5" qtz. pyrite.									
352.0	369.0	gwke, locally siliceous to sections of schist. schist chloritized									
		common to sheared sections of core. shearing @90° calc silicate									
		veining commonly @85-90°									
		385.0 qtz-irregularly filling fractures.									
369.0	480.5	biotite muscovite schist to sections of brecciated schist									
		@394.0-395.0, 413.0-414.0, 421.0-429.0 foliated @87°.								Tr	
		379.0 <.5" qtz @80°	2463		378.5	379.5	1.0			Tr	
		396.0 fault gouge @90°	2464		384.5	385.5	1.0			Tr	
		401.0 <.5" qtz @80°	2465		400.5	401.5	1.0				
		412.0 4.0" calc silicate.									
		417.0 4.0" calc silicate								Tr	
		419.0 1.5" qtz @90°	2466		419.5	420.5	1.0				
		435.0 2.0" calc silicate @87°								Tr	
		442.0 4.0" calc silicate @90°	2467		442.7	443.7	1.0			Tr	
		443.2 <.5" qtz @90°. pyrite.	2468		444.5	445.5	1.0				
		445.0-466.0 brecciated schist, by qtz stringers. brecciated schist	2469		465.0	466.0	1.0			0.02	
		@469.5-470.0. 475.0-476.0.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 2 SHEET NO. 8 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		460.0 fault gouge @60°	2470		468.5	469.5	1.0			Tr.	
		469.0 fault gouge @70°									
		469.2 <.5" qtz @82° pyrite									
		471.5 2.0" calc silicate @90°									
		473.0-473.5 g. core.									
		479.0 2.0" calc silicate @90° pyrite @ wall rock contact.									
		480.5 End of Hole									

Leonard J. Kelly
Jan 22 '81

Note : The dips of quartz veins, foliation, fracturing were read with 0° being horizontal and the core axis @ 65°.

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ SHEET NO. _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION Summary for Core #2	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0.0	12.5	overburden										
12.5	24.5	interbedded gabbro - meta - basaltic schist										
24.5	51.3	siliceous chloritic gabbro.										
51.3	54.0	meta basaltic schist										
54.0	75.0	gabbro & irregular schistose contact, brecciated gabbro (69.0-81.0)										
75.0	155.0	basaltic meta schist & gabbro, brecciated gabbro										
155.0	157.0	siliceous chloritic gabbro.										
157.0	193.5	basaltic meta schist. local brecciation @ (180.0-189.0)										
193.5	202.0	gabbro with [illegible]										
202.0	252.0	basaltic [illegible] schist										
252	370.0	grey gabbro & basaltic meta schist										
370.0	352.0	basaltic meta schist & gabbro. local brecciation 332.0-342.0, 342.0-348.0										
352.0	369.0	siliceous gabbro										
369.0	480.5	basaltic meta schist, local brecciation 391.0-395.0, 413.0-414.0, 421.0-424.0, 441.5-446.0, 469.5-474.0, 475.0-476.0										
	480.5	End of hole										

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour, Guysborough County, N.S.

HOLE NO. ~~COHA 3~~ LENGTH 504.0

LOCATION 38+00N/6+50W Country Harbour Grid

LATITUDE _____ DEPARTURE _____

ELEVATION 1248.0' AZIMUTH 242° DIP 50°

STARTED Jan. 24/81 FINISHED Feb.4/81

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
125.0	53°				
300.0	49°				
504.0	44°				

HOLE NO. ~~COHA 3~~ SHEET NO. ~~1 of~~ 13

REMARKS _____

LOGGED BY B. Kelly

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0.0	16.0	overburden till, most granitic pebbles.									
16.0	4010	grey greywacke with sections of dark grey muscovite biotite schist, greywacke massive. schist has moderate to good foliation @40°. schist sections 1.0-4.0' sections. calc silicate veins 1.0-2.0" @35-40° between 16.0-40.0 qtz veining @ 25°-30° (16.0-40.0'). pyrite, galena specks in qtz. local brecciation of greywacke (16.0-40.0'). rust coating broken core, fractures (16.5-30.0').									
		17.0-18.0 brecciated greywacke by thin numerous qtz stringers. rust coating some qtz. stringers. 1.0" qtz vein, scattered felsic material in qtz @18.0' qtz @30°	2508		17.5	18.5	1.0			Tr	
		22.0, <.5 qtz vein @30° rust staining, chlorite, biotite infilling small fractures in qtz.	2509		21.5	23.0	1.5			Tr	
		26.0 calc silicate vein thin calcite stringers infilling fracture local to silicate.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 3 SHEET NO. 2 of 13

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		27.5-29.0 brecciated greywacke by thin quartz stringers. brecciation local to 1.0" qtz vein @8.5' qtz @30°.	2510		27.5	28.5	1.0			0.02	
		30.0-31.5 muscovite-biotite schist, euhedral staurolite, scattered garnets foliation @33°.									
		31.5 - 1.0" qtz vein @30° massive pyrite, some arsenopyrite infilling qtz (thin fracture) qtz @30°.	2511		31.0	32.0	1.0			Tr	
		32.5 - <.5" qtz vein @40° small blebs at massive pyrite garnets, biotite @ wall rock, contact.									
		34.0 - 1.5" calc silicate @35° numerous calcite stringers (locally).									
		35.5-36.0 - weakly brecciated greywacke. Greywacke broken up by qtz stringers. Massive pyrite observed irregularly infilling the same fracture as the qtz stringer.	2512		36.0	37.0	1.0			Tr	
		36.5 - <.5" qtz @30°.									
40.0	135.0	interbedded greywacke and muscovite-biotite schist. Schist rather crumbly, spotty rust staining. Pyrite common coating fractured broken core.									
		41.0 - pyrite coating broken core, core broken @15°.									
		44.0 - massive pyrite (1 cm in thickness) in zone of weak brecciation (by qtz. stringering).									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 3 SHEET NO. 3 of 13

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		48.5 -<.5" qtz @41° small ,specks of pyrite.	2514		48.0	49.0	1.0			Tr	
		60.0-61.5 -greywacke brecciated by qtz.stringering. stringers 2.0"@4.0" stringers mostly @65°. several stringers have associated massive pyrite. wall rock local to stringers chloritized.	2515		60.0	61.5	1.5			Tr	
		61.5 - fault gouge @40°.									
		63.5 - 1.0" qtz @30°.	2516		63.0	64.0	1.0			Nil	
		64.0- <.5" qtz @30°.									
		67.5 - 1.0" qtz @30° thin small veinlets of pyrite, arsenopyrite along wall rock contact.	2517		67.0	68.0	1.0			Tr	
		71.5 - 1.0" calc silicate (garnetiferous) thin calcite stringers intersecting silicate.									
		73.5 -74.5 Thin interbeds of gwke-schist brecciated by qtz stringering. pyrite mineraliz local to stringers. quartz in stringers chloritic green. calcite stringering also breaking up gwke-schist core has a leached appearance.									
		77.5-78.5 - 1.0' qtz contacts @35° felsic material mixed to qtz. Felspars pinkish orange. no minerliz observed.	2518		77.5	78.5	1.0			Tr	
		85.0 -<.5" qtz vein @30°. calc-silicate local @30°	2519		84.5	85.5	1.0			Tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 3 SHEET NO. 4 of 13

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		87.0 1.0" qtz @30° massive pyrite infilling qtz and near wall rock contacts.	2520		86.5	87.5	1.0			0.01	
		99.5 - <.5" qtz vein @30°	2521		99.0	100.0	1.0			Tr	
		100.0-102.0 calc silicate veining. veining @35°-40° calcite stringering abiquitous . gwke brecciated.									
		103.0-109.5 - muscovite-biotite schist. foliation @28°. pyrite, arsenopyrite spotty through schist. arsenopy w .5" qtz vein @108.0'.									
		107.0 - <.5" qtz vein local to and intersects calc silicate qtz@40°	2522		106.5	107.5	1.0			Tr	
		110.5-112.0- brecciated gwke. gwke broken up the qtz stringers. 1.0" calc silicate intersects breccia.									
		117.5 - <.5" qtz vein pyrite, arsenopyr mineraliz qtz @20°.	2523		117.0	118.0	1.0			Tr	
		123.0 - <.5" qtz vein @50° qtz intersects thin section of schist heavily mineralized to pyrite. thin pyrite. stringers in qtz. qtz. chloritic green local to pyrite .	2524		122.5	123.5	1.0			Tr	
		125,5 - <.5 qtz @45° f. gr. arsenopyr, thin stringers of pyrite.	2525		125.0	126.0	1.0			Tr	
135.0	142.0	gwke, chloritic local w qtz stringering and calc silicate veining. brecciation common. qtz veins. <.5"-7.0" between 135.0-142.0!									

DIAMOND DRILL RECORD

NAME OF PROPERTY ~~Country Harbour~~

HOLE NO. COHA 3 SHEET NO. 5 of 13

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		pyrite, arsenopyr. common to qtz. thin sections of schist irregularly interbedded to gwke over section 135.0-142.0.									
142.0	151.0	greywacke to sections of schist.									
		142.0 - <.5" qtz vein @40°	2526		141.3	142.3	1.0			0.05	
		146.0 - <.5" qtz vein @40°. thin pyrite stringers intersect qtz.	2527		146.4	147.4	1.0			Tr	
		148.0 7.0" qtz vein @30°. pyrite flakes coating broken core.	2528		147.9	148.9	1.0			Tr	
		150.5 4.0" qtz vein, upper qtz contact @45°, lower contact @25° (at 150.7') massive pyrite, arsenopyr @150.3' schist brecciated by qtz, 150.7 gouge @25°.	2529		149.5	150.5	1.0			0.03	
		174.0 - <.5 qtz @35°. brecciated garnetiferous greywacke	2530		174.0	175.0	1.0			Tr	
		185.5 - 2.5" calc silicate @40°. numerous calcite stringers intersecting silicate and country rock.									
		187.5-189.0 - section of staurolite-muscovite-biotite schist. staurolite grains mostly subhedreal, in a linear arrangement parallel to foliation @32°. numerous chloritic stained qtz stringers intersecting schist. schist is siliceous immediate to qtz stringers.									
		189.5 - 3.0" calc silicate @40°. calcite stringering common.									
		191.0 - 2.5" qtz @30°. thin stringers of massive pyrite mostly @30°, @191.3' pyrite stringers, arsenopyr gr. in local gwke.	2538		190.5	191.5	1.0			0.11	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 3 SHEET NO. 6 of 13

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		192.0 pyrite flake coating fracture core. fracture @40°									
192.5	198.0	weakly schistose siliceous gwke. ~~common~~ COMMONLY brecciated. narrow sections of schist. chloritic green qtz @30°-40° between 192.0-198.0' qtz @ 65-70° over same section. pyrite, pyrrhotite (small massive grains) spotty through qtz and wall rock.									
198.0	207.0	grey gwke tw narrow schist zones, local brecciation of gwke. 206.0-207.0 - brecciated gwke, brecciated by qtz stringers, pyrite coating broken core, spotty to qtz stringers. minor calcite stringering.									
207.0	211.0	muscovite-biotite schist. small massive pyrite grs. pyrrhotite, @209.5 - pyrite coating fractured core. foliation of schist @35°.									
211.0	217.0	brecciated siliceous gwke. section bounded @211.0 by calc silicate vein. qtz. calcite stringering minor pyrite.									
217.0	232.5	gwke tw thin sections of musc.-biotite schist and siliceous gwke. 220.0 ~<.5" qtz @40° 3.0" calc silicate @35°. 225.0 - 4.0" calc silicate @40° calcite stringering. 226.5 - fault gouge @70° qtz (massive) brecciating gwke local to gouge.	2539		219.5	220.5	1.0			Tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 3 SHEET NO. 7 of 13

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		228.5 - 2.0" calc silicate @40°.									
		230.5 - 3.0" calc silicate @40°, calcite stringers.									
		231.5 - <.5" qtz filled fracture @40°, wall rock garnetiferous, biotite, chloritized.	2540		231.0	232.0	1.0			Tr	
		231.7-232.5 - siliceous chloritic greywacke. upper contact @30° lower 25° numerous qtz, pink-orange feldspar stringers.									
232.5	237.5	gwke to narrow sections of staurolite-muscovite-biotite schist. staurolite grains 1-2 mm, irregular in orientation. thin qtz veinlets common to schist, contact @237.0' @27°.									
		234.0 - <.5" qtz @30° f. gr. pyrite blebs.	2541		233.5	234.0	1.0			0.04	
		236.0 - ~~g - core.~~ GROUND CORE.									
237.5	257.0	gwke, locally brecciated by qtz, calcite stringers.									
		238.5 - 1.0" qtz @30° pyrite in tight fractures in qtz.	2542		238.0	239.0	1.0			Tr	
		241.0-242.5) gwke, brecciated (weakly) by qtz, calcite stringers. 249.0-250.0)									
		255.5-256.9 - 1.4" qtz @ 10°, qtz chloritic green in spots., weak brecciation of local gwke. small massive blebs of pyrite @255.9.	2543		255.5	257.0	1.5			Tr	
		257.5 - 5" qtz @20° fault gouge @45°.	2546		257.0	258.0	1.0			Tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY ~~Country Harbour~~

HOLE NO. ~~COHA 3~~ SHEET NO. 8 of 13

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
257.0	281.5	greywacke to sections of staurolite-musc.-biotite schist. minor brecciation in sections of intense qtz, + calcite stringering. rock fractured between 257.0-281.5. Foliation of schist @35°. 266.0 - fault gouge @40°. 265.0 - 1.0 qtz @35° pyrite flakes in filling fractures in qtz. 274.0 - <.5" qtz. gwke chloritized between 274.0-274.8'. 277.0-278.5 - <.5" qtz veins @35°. calcite coating broken core. pyrite (minor) @ 277.5'.	2547		264.5	265.5	1.0			0.03	
			2548		273.5	274.5	1.0			Tr	
281.5	288.0	weakly foliated gwke. foliation @32°. pyrite coating broken core, spotty pyrite disseminated in greywacke. rock fractured @35°-40° between 281.5-288.0. 283.0 - 1.0 qtz @35°. qtz chloritic green, wall rock garnetiferous. Pyrite as flakes + small massive blebs in qtz. 286.0 - 2.0" quartz, chloritic, stained, fractured. pyrite. weakly foliated greywacke ~~to~~ sections of garnetiferous, staurolitic muscovite-biotite schist.	2544		282.5	283.5	1.0			Tr	
			2545		285.5	286.5	1.0			0.08	
300.0	310.0	siliceous, weakly foliated greywacke. foliation @30°. Core fractured @ 35-40° between 300.0-310.0'. arsenopyrite, pyrite spotty. pyrite coating broken core surfaces, f. grained									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 3 SHEET NO. 9 of 13

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		bleb in qtz veins @305.0' intense qtz, calcite stringering common.									
		308.0 - <.5" qtz @ 30° felsic material mixed to qtz.									
		310.0 - <.5" qtz @30°								Tr	
		313.0 - 1.0" qtz vein @40° f. pyrite stringers filling fractures in qtz.	2549		312.5	313.5	1.0				
		316.0 - fault gouge @40°.								Tr	
		315.7 - <.5" qtz pyrite.	2550		315.0	317.0	1.0				
		325.0 - 3.0" calc silicate @42°, pyrite, f. grained blebs on silicate, flakes coating broken core.									
310.0	368.0	weakly foliated gwke to sections of staurolite-muscovite-biotite schist foliation @35°.									
		331.5 - 1.0" calc silicate @40°, f.g. grain blebs of pyrite. Pyrite assoc w/ chloritic filled fracture @ 332.0'.									
		336.0 - fault gouge @30°.								Tr	
		339.0 - <.5" qtz @30°, f.g. grain bleb of pyrrhotite.	2551		338.5	339.5	1.0				
		338.0-354.0 - pyrite commonly coating fractured core.								Tr.	
		341.5 - <.5" qtz @35°, light chlorite green color to qtz, biotitic wall rock.	2552		341.0	342.0	1.0				
		341.0-342.0 - gwke to c. gr. arsenopyr, pyrite stringers.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 3 SHEET NO. 10 of 13

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		343.5- fault gouge @35°									
		344.0-345.0- gwke to c. grain arsenopyrite, f. gr. massive blebs. 345.5 6.0" qtz @40° f.gr. arsenopyr., f.gr. massive bleb of pyrrhotite, pyr. (of pyrite, pyrrhotite.									
		361.0 - 1.0" qtz @40°, fine gr. pyrite in qtz.	2553		346.0	346.0	1.0			Tr	
			2559		360.5	361.5	1.0			Tr	
368.0	374.5	gwke, local weak brecciation by qtz, minor calcite stringering.									
374.5	398.0	gwke to section of staurolite-muscovite-biotite schist.									
		foliation @30°.									
		379.0 ~<.5" qtz @ 40°. pyrite, massive stringers @ contact to country rock.									
		385.0 - 2.0" qtz pyrite, biotite in qtz, light chloritic green	2560		284.5	285.5	1.0			Tr	
		color to qtz.									
		388.0-391.0 - core fractured, commonly @30°.									
		391.0 - 1.0" qtz @40°, pyrite @ wall rock contact.	2561		390.5	391.5	1.0			0.01	
		398.0 - 2.0" qtz. @40° pyrite stringer in qtz flakes coating broken	2562		397.5	398.5	1.0			Tr	
		blebs @ contact to country rock spotty chloritic green to qtz.									
		398.0- 402.0 staurolite-muscovite-biotite schist. locally schist									
		in garnetiferous foliation @30°. contact @ 402.0 @30°.									
402.0	440.0	gwke, locally chloritized, brecciated in zones of qtz stringering									
		pyrite.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 3 SHEET NO. 11 of 13

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		408.0 - <.5" qtz @40° pyrite stringer @50°.									
		409.0 - <.5" qtz @40° pyrite f. gr. bleb.									
		411.0 - <.5" qtz @40° f. gr. bleb of arsenopyrite, pyrite f. gr.	2563		410.5	411.5	1.0			Tr	
		~~X1/3 of~~ EUHEDRAL galena. scattered through qtz.	2564		411.5	412.6	1.0			0.01	
		412.0 - 5" qtz @40° pyrite.									
		415.0 - <.5" qtz @40° f. gr. arsenppyr, blebs of pyrrhotite,	2565		414.5	416.0	1.5			Tr	
		scattered f. gr. pyrite.									
		414.0-424.0 fractured greywacke. mostly @40° f. gr. arsenopyr,									
		pyrite.									
		417.0 - fault gouge @40° pyrite gr. in gouge material.									
		418.5 - 4.0" qtz @40°, pyrite stringers and grains.	2566		418.0	419.0	1.0			0.02	
			2578		419.0	420.0	1.0			Tr	
		420.1 - <.5" qtz vein @30° f. gr. arsenopyrite in qtz and gwke .	2567		420.0	421.0	1.0			2.44	
		small massive pyrite stringer.	2579		421.0	422.0	1.0			Tr	
		* v.g. -pin head bleb infilling quartz.									
		422.5 - 6.0" qtz @40° pyrite blebs, stringers, short stringer of	2568		422.0	423.0	1.0			0.01	
		galena. pyrite coating broken core.									
		427.5 - 2.0" qtz @40° pyrite.	2569		427.0	428.0	1.0			Tr	
		428.0 - fault gouge @40°. <.5" qtz @40° scattered pyrite.									
		431.0 - <.5" qtz @40° pyrite, arsenopyrite in qtz gwke.	2570		430.0	431.0	1.0			Tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 3 SHEET NO. 12 of 13

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	TOTAL	ASSAYS %	%	OZ TON	OZ TON
		433.5 -<.5" qtz @40° pyrite, biotite.									
		435.0-436.0 gwke, weakly brecciated by qtz, calcite stringers gwke chloritized local to stringers. pyrite stringers.	2571		435.5	436.5	1.0			Tr	
		436.0 -<.5" qtz @40° biotite.									
		438.0 - 3.0" calc silicate @40° qtz intersecting @40° pyrite stringers, arsenopyr @ contact of silicate, qtz.									
440.0	463.0	gwke, locally siliceous, weakly brecciated by qtz, calcite stringering pyrite stringering, pyrite blebs @ 445.0. qtz veining mostly @40° arsenopyrite- f-med gr. through gwke.									
		441.5- qtz @40°	2572		440.5	442.0	1.5			Tr	
		454.5 - qtz @40° pyrite stringers, flakes, arsenopyrite-f. grain in qtz and gwke biotite in qtz. 457.5 qtz @40°.	2573		454.5	454.0	1.0			Tr	
			2574		457.0	458.0	1.0			Tr	
		462.0 - 1.0" qtz @40° pyrite stringers and blebs									
		462.5- fault gouge @40°									
463.0	472.5	muscovite biotite schist to sections of gwke, foliation @40° schist staurolitic, garnetiferous. pyrite coating broken core surfaces rock fractured mostly @38° between 463.0-472.5. qtz veining 1.0-5.0" over same section.									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY ______________

HOLE NO. ______________ SHEET NO. ______________

Summary of COHA 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
257.0	281.5	gneiss w/ bands of staurolite bearing mica biotite schist.										
281.5	288.0	weakly foliated pyritic gneiss										
288.0	300.0	weakly foliated gneiss w/ bands of garnet staurolite bearing mica biotite schist.										
300.0	310.0	siliceous weakly foliated gneiss.										
310.0	368.0	weakly foliated greywacke w/ bands of schist										
368.0	374.5	gneiss										
374.5	398.0	gneiss w/ bands of schist										
398.0	402.0	staurolite mica biotite schist										
402.0	440.0	gneiss, local chloritization, brecciation & qtz veining throughout 408.0-426.0 qtz veins .5-6.0". p.h. v.g. 420.1										
440.0	463.0	gneiss, minor local brecciation										
463.0	472.5	mica biot schist w/ gneiss qtz veining 462.0-473.0' 1.0-5.0" qtz veins										
472.5	480.0	gneiss, minor local brecciation.										
480.0	501.5	light grey siliceous gneiss										
501.5	504.0	gneiss										
	504.0	End of Hole										

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 3 SHEET NO. 13 of 13

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		465.0-<.5" qtz @40°.pyrite stringer in qtz.									
		467.5-<5.0" qtz containing gwke fragments. pyrite, arsenopyr, in massive blebs. rust staining fractures in qtz .	2576		467.0	468.0	1.0			0.04	
		472.0 -1.0 qtz @40° pyrite stringer.	2577		471.5	472.5	1.0			Tr	
472.5	480.0	gwke, local weak brecciation by qtz, calcite, gwke locally garnetiferous. pyrite coating broken core, pyrite stringers.									
		474.5 -1.0" qtz @40° biotite, pyrite stringers @ wall rock.								Tr	
		477.0 -1.0 qtz @40°. small massive pyrite, arsenopyrite blebs. biotite.	2580		476.5	478.5	1.5				
480.0	501.5	light grey siliceous greywacke, short qtz, pyrite stringering, sections of schist foliated @38° core fracturing commonly @30°. arsenopyr common between 496.5-501.5'.									
		490.0 <.5" qtz @ 35°, pyr. stringers, f.gr. pyr., arsenopyr. 490.5 -calc silicate @35°.	2581		489.5	490.5	1.0			Tr	
		494.5 -1.5" qtz. f. gr. argillitic (green) in qtz fractures. pyrite arsenopyrite in qtz. arsenopyr through gwke.	2582		494.0	496.0	1.0			Tr	
501.5	504.0	grey greywacke .									
		501.5 -2.0" qtz. @50° biotite. pyrite. arsenopyr in qtz and @ contact wall rock. pyrite stringer.	2583		501.0	502.0	1.0			Tr.	
		504.0- End of Hole.									

Dennis J Kelly Feb 4 '81

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour
HOLE NO. COHA 4 LENGTH 346.0
LOCATION 45+50N / 2+00W
LATITUDE DEPARTURE
ELEVATION 1182.0 AZIMUTH 242.0 DIP 60.0
STARTED Feb. 7/81 FINISHED Feb. 21/81

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100.0'	61°				
300.0	57°				

HOLE NO. COHA 4 SHEET NO. 1 of 10
REMARKS AQ Dixon Diamond Drilling

LOGGED BY B. Kelly

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0.0	16.0	overburden									
16.0	45.0	greywacke to narrow bands of weakly schistose gwke. local brecciation. calc silicate veining, quartz and calcite stringers silicate common 16.0-40.0'. pyrite coating core surfaces. thin stringers of pyrite common to brecciated zones. 25.0-40.0 50°-60° fracturing, broken core. 16.0-23.0 lost and ground up core orange brown rust staining broken core. 26.0-31.0 weak brecciation of greywacke. qtz stringering @ 35-45°. 34.5 massive pyrite, 0.1", infilling, fracture @25° 35.0-40.5 gwke to calc silicate veining (1-2.0"). brecciated gwke. qtz stringering containing pyrite @ 20-25°. wall rock immediate to stringers chloritized.									
43.0	45.0	siliceous gwke to qtz veinlets @40-45°.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 4 SHEET NO. 2 of 10

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
45.0	53,0	brecciated gwke, qtz stringering irregular, breaking up gwke. pyrite spotty. 45.0 - 49.0 lost core									
53.0	73.0	gwke to narrow schist band. foliation @30°, staurolite in schist zones. 62.0 injected quartz. biotite @ wall rock contact. rust staining qtz. 630.0-71.0 lost core, rust staining core local to lost core section 72.0 10.0" bull qtz. containing fragments of gwke. qtz contact @25° fault gouge @25°. 63.0-85.0 core fractured @ 0"-20".	2585		61.5	62.5	1.0			Tr	
			2670		71.0	73.0	2.0			6.01	
73.0	95.0	brecciated gwke to section of weakly schistose gwke. gwke foliated @24°. gwke garnetiferous. brecciation by qtz stringers @40-50°, 60°, with immediate wall rock chloritized. minor calcite stringering. thin stringers of pyrite @ 76.0 and 91.5. breccia fragments between 0.4-0.5". 79.0-82.0 lost core	2671		86.5	88.5	2.0			Tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 4 SHEET NO. 3 of 10

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
95.0	108.0	gwke, weakly schistose @ 20-25°, local intense fracturing @60° qtz stringering.									
		98.0 irregular shaped qtz @20° biotite.									
108.0	113.0	qtz veining (massive) w brecciated gwke, garnet-musc. schist. schist chloritic, siliceous, contained between qtz. schist foliated @ 25-30° 25-30°. schist soft, crumbly containing massive c. gr. arsenopyr, small massive pyrite graines.									
		110.0 irregular shaped injected qtz. galena w calcite stringer @ 110.0'. f. gr. pyrite, arsenopyr to qtz. fractures. qtz @25° @110.5.	2595		113.5	115.0	2.0			Tr	
113.0	117.0	massive qtz w sections of musc. biotite schist. schist mineralized w pyrite, arsenopyr. foliation of schist @25°. schist brecciated by qtz. pyrite infilling fractures in qtz. @ 114.0' also coating broken core. arsenopyr filling qtz w biotite.	2596		116.0	117.0	2.0			0.01	
		117.0 fault gouge @15°.									
117.0	119.5	massive qtz. green argillitic material filling qtz fracture w pyrite. 118.5-119.5. schist containing euhedral aesenopyr. quartz veins. @ 35°.	2597		117.0	119.5	2.5			Tr	
119.5	130.0	brecciated gwke, intense thin qtz, calcite stringering. 120.5 qtz @35°.									

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DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 4 SHEET NO. 4 of 10

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		124.0 1.0" qtz @ core axis (parallel).	2684		123.0	124.0	1.0			Tr	
		125.0 <.5" qtz @ 20°.									
		127.0 <.5 qtz @25° arsenopyr.	2598		126.5	127.5	1.0			Tr	
130.0	133.0	gwke to sections of brecciated gwke. gwke weakly foliated @33°. qtz., calcite stringering, chloritized wall rock immed. to stringers in brecciated gwke.									
		131.5 4.0" calc silicate @40°.	2599		132.5	133.5	1.0			Tr	
		133.0 1.0" qtz @20° pyrite, arsenopyr, biotite in qtz.									
133.0	139.0	musc. biotite schist. foliation @20°. euhedral arsenopyr, massive pyrite belbs, coating broken core. local fracturing @30°.									
		136.0 qtz @40°. biotite @ wall rock, also arsenopyr, pyrite stringers @ 60-70° in schist.	2600		136.0	137.0	1.0			Tr	
		136.0 fault gouge @40°.									
		138.0 <.5" qtz @25°.	2683		137.0	138.0	1.0			Tr	
139.5	197.5	gwke, locally siliceous and brecciated by qtz. minor calcite stringers, breccia fragments <.5", f. gr. arsenopyr. scattered through greywacke. biotite filled fractures and @ wall rock qtz contacts. gwke weakly foliated @32°.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 4 SHEET NO. 5 of 10

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		149.0 biotite filled fractures @45° common between 139.5-163.0'.									
		151.0 4.0" calc silicate @40° pyrite stringer.									
		153.0 fault gouge @25°.									
		158.0 1.5" calc silicate galena & pyrite coating broken fracture (@30°).									
		159.0 1.5" calc silicate @30°.									
		161.0 <.5" qtz @30° brecciated gwke. chlorite-biotite fill tight fractures in qtz.	2601		161.0	162.0	1.0			0.01	
		169.0 <.5" qtz. @40°.	2602		168.5	169.5	1.0			Tr	
		171.0 fractured gwke @30° and 40-50°.	2637		172.5	173.5	1.0			Tr	
		189.0 < .5" qtz @25° pyrite stringers, pyrite to arsenopyr coating broken qtz core.	2638		188.5	189.5	1.0			Tr	
		191.0 .5" qtz @40° pyrite, biotite in qtz fractures.	2639		190.5	191.5	1.0			Tr	
		192.5 <.5" qtz @40° scattered pyrite, pyrite stringers arsenopyr. mineraliz in med greywacke.	2640		192.0	193.0	1.0				
		192.5 - 197.5 gwke foliated @35° in more schistose gwke sections also garnetiferous. pyrite stringers 1-2" arsenopyr in gwke. core blocky, fracturing @ 15-25°.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 4 SHEET NO. 6 of 10

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		196.5 irregular patches of chloritic green qtz. arsenopyr pyrite stringers.	2641		196.0	197.0	1.0			Tr	
197.5	203.0	garnetiferous musc. biotite schist. foliation @ 33°. trace pyrite. brecciated locally by qtz stringering.									
		198.5 .5" qtz pyrite stringer, biotite.	2642		198.0	199.0	1.0			Tr	
203.0	222.5	gwke, locally brecciated by qtz stringers, minor calcite. weak foliated and garnetiferous in more schistose sections. foliation @33°. scattered fine grain arsenopyr, pyrite stringers, coating broken core.									
		203.0 < .5" qtz @40° pyrite stringer @40° arsenopyr c. gr. in qtz.	2643		202.5	203.5	1.0			Tr	
		216.5 1.0" qtz @40°. specks of arsenopyr, pyrite, pyrite stringers. c. g.r arsenopyr in wall rock.	2644		216.0	217.0	1.0			Tr	
		218.5 < .5" qtz @40° pyrite blebs, speck of galena.	2645		218.0	219.0	1.0			0.01	
		220.0 .5" qtz @40° pyrite stringers, biotite flakes, foliation of gwke @33°.	2646		219.5	220.5	1.0			Tr	
222.5	225.5	greywacke, brecciated by qtz stringering. pyrite stringers, pyrite coating broken core.									
		225.5 5.0" qtz, irregularly infilling gwke, arsenopyr, pyrite scattered through qtz and gwke, arsenopyr euhedral, biotite in tight qtz fractures.	2647		225.5	227.5	2.0			Tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA-4 SHEET NO. 7 of 10

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
225.5	235.5	gwke, weakly foliated @38°. f. med. arsenopyr in a linear arrangement, parellel to foliation. rock fracturing @25-35°, 50°. pyrite assoc. to qtz stringers. wall rock chloritic. 229.0 .5" qtz @40°. biotite. infilling qtz fracture. 229.5 .5" qtz @40°. biotite. 232.0 1.0" qtz @40°, thin stringer of pyrite, pyrite coating broken core. 232.5 1.5" qtz @40°. 233.0 2.0" qtz @40°. pyrite stringer.	2648		228.5	230.0	1.5			Tr	
			2649		232.0	234.0	2.0			Tr	
			2650		235.5	236.5	1.0			Tr	
235.5	238.5	quartz vein. upper contact @20°, lower @35°. pyrite to argillitic material in qtz fractures. arsenopyr scattered. biotite.	2672		236.5	238.0	1.5			Tr	
			2651		238.0	239.0	1.0			0.03	
239.5	242.0	irregular qtz veining, euhedral arsenopyr., f. gr. specks, stringers of pyrite. qtz veins 0.5"-4.0" over sections. biotite in qtz fractures. 246.0-249.0 calc silicate veining. pyrite, arsenopyr. qtz veins intersects silicate @40°, 60°. pyrite stringering, arsenopyr in qtz. argillitic material, biotite, in qtz fractures. 249.5 1.0" qtz @30° pyrite stringers, arsenopyrite.	2652		239.5	242.0	2.5				
			2679		246.0	247.0	1.0			Tr	
			2653		249.0	256.0	1.0			001	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 4 SHEET NO. 8 of 10

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		251.0 gwke foliated @28°.
		253.0 <.5"qtz pyrite stringer, specks of arsenopyr, dark grey qtz.
		255.5 fault gouge @25°.
		254.5 2.0" qtz @30° pyrite, arsenopyr (f.gr.)
		260.0 1.0" qtz @40° scattered f. gr. pyrite.
242.0	298.0	gwke, locally brecciated by qtz, minor calcite stringering, gwke garnetiferous in more schistose zones. thin stringer of pyrite near qtz stringers. wall rock chloritic.
		270.0 .5"qtz @30° garnets, chloritic gwke fragments in qtz. pyrite stringer.
		275.0 <.5"qtz @40° pyrite stringer, biotite, pyr. stringers in local gwke.
		280.0 3.0" qtz @40° pyrite stringers, biotite.
		281.0 6.0" qtz @40° pyrite, chloritic gwke fragments. arsenopyrite (f.gr.)
		285.0 1.0" qtz @40° pyrite stringers, biotite, speck of arsenopyr.
		285.0 gwke fractured @ 45-55°.
		289.5 <.5 qtz @40° galena in local gwek, coating broken core.

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ TON	OZ TON
2678		250.0	251.0	1.0			Tr	
2654		252.0	255.0	2.5			Tr	
2677		259.0	261.0	2.0			Tr	
2655		269.5	270.5	1.0			0.01	
2656		279.0	281.5	2.5			0.10	
2657		284.5	286.0	1.5			0.02	
2658		289.0	290.0	1.0			0.06	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 4 SHEET NO. 9 of 10

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		294.0 calcite to galena, pyrite coating broken calc silicate core. 2.0" calc silicate @40°. specks of pyrite, galena in silicate. silicate garbetiferous in a linear arrangement parellel to foliation @40°.	2674		293.5	294.5	1.0			Tr	
		296.0 local fracturing @20°. thin qtz stringer @ 60°. wall rock chloritic to blebs of pyrite, c. g.r arsenopyr.	2659		295.5	296.5	1.0			Tr	
		298.0 calcite stringer to speck of galena. gwke foliated @40°.									
298.0	320.0	gwke, extensive brecciation by qtz stringers. f. gr. pyrite, galena @ 298.0, 298.5, 302.0. minor calcite stringering.	2675		300.5	301.5	1.0			Tr	
		304.0 2.5 qtz @40° f. gr. pyrite.	2660		303.5	304.5	1.0			0.37	
		308.0 brecciated gwke, extensive qtz stringering, specks of pyrite.	2661		308.0	309.0	1.0			0.13	
		312.5 1.0" qtz. @45°. pyrite, arsenopyr.	2676		310.0	312.0	2.0			Tr	
		314.0 fault gouge @45°.	2662		312.0	313.0	1.0			0.13	
		317.5 <.5" qtz @40°. stringers of pyrite @40°. specks of arsenopyr, biotite.	2663		317.0	318.0	1.0			0.01	
		321.5 1.0" qtz @40° pyrite stringers. grey qtz.	2664		321.0	322.5	1.5			0.11	
		323.5 <.5" qtz @40° thin stringers of pyrite.	2665		323.0	324.5	1.6			Tr	
		323.0 foliation of gwke @35°.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Courtenay Harbour

HOLE NO. COHA 4 SHEET NO. 10 of 10

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
320.0	346.0	greywacke, locally brecciated by qtz stringering. pyrite stringering. fracturing of core @40°. 330.5 1.5" qtz @35° pyrite stringers. 336.0 <.5 qtz @40° pyrite stringers, gwke fragments in qtz felsic material mixed to qtz. 339.5 .5 qtz @40°. 340.5 <.5" qtz @40°. 344.0 <.5" qtz @40°. pyrite stringers in qtz (chloritic green). specks of arsenopyrite, wall rock contains euhedral arsenopyrite, pyrite stringer. 345.5 <.5 qtz @40°. 346.0 End of Hole. Samuel B. Kelly Feb 22 '81

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS				
							OZ TON	OZ TON	
2668		328.5	330.0	1.5			Tr		
2666		330.0	331.0	1.0			Tr		
2667		336.0	337.0	2.0			Tr		
2680		339.0	340.0	1.0			NIL		
2681		340.0	341.0	1.0			NIL		
2669		343.5	346.0	2.5'			Tr		

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ SHEET NO. _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION Summary of Hole 4	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0.0	16.0	overburden										
16.0	43.0	gabbro & narrow bands of weakly schistose gabbro, brecciated gabbro										
43.0	48.0	schistose gabbro.										
48.0	53.0	brecciated gabbro										
53.0	73.0	gabbro & narrow bands of schistose gabbro										
73.0	95.0	brecciated gabbro & section of weakly schistose gabbro										
95.0	108.0	gabbro.										
108.0	113.0	5% veining & brecciated gabbro, garnet [illegible] biotite schist										
113.0	119.5	5% veining & mica-biotite schist										
119.5	130.0	brecciated gabbro										
130.0	133.0	gabbro & brecciated gabbro										
133.0	139.5	mica biotite schist.										
139.5	147.5	gabbro 139.5-163.0 altered 5% stringering, gabbro schistose										
147.5	203.0	mica biotite schist.										
203.0	222.5	gabbro										
222.5	225.5	brecciated gabbro.										
225.5	235.5	gabbro										
235.5	238.5	5% veining.										
238.5	239.5	gabbro										
239.5	242.0	irregular 5% veining										

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ SHEET NO. _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		Summary of cont'd & cont'd
142.0	298.0	gabbro
298.0	320.0	gabbro, basal breccia.
320.0	346.0	gabbro
	346.0	End of Hole

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	

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DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ SHEET NO. _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION SUMMARY OF COHA 5	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	12.0	Overburden									
12.0	67.0	Med. grey gwke foliated @25°									
67.0	68.0	Strongly fractured gwke foliated @30°									
68.0	73.0	Med. grey gwke									
73.0	76.5	Quartz veining									
76.5	81.0	Med. grey gwke									
81.0	83.5	Light grey qtz. wacke, weakly foliated @35°									
83.5	85.5	Quartz veining									
85.5	97.4	Light grey qtz. wacke									
97.4	108.9	Quartz veining									
108.9	113.5	Light grey brown gwke									
113.5	149.0	Light grey gwke									
	149.0	END OF HOLE									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour
HOLE NO. COHA 6 LENGTH 152'
LOCATION 58+00N/8+20W
LATITUDE _____ DEPARTURE _____
ELEVATION 1210.2 AZIMUTH 242° DIP 45°
STARTED Feb. 23, 1981 FINISHED Feb. 24, 1981

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100.0	47°				

HOLE NO. COHA 6 SHEET NO. 1 of 7
REMARKS AQ Dixon Diamond Drilling

LOGGED BY B. Kelly

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	10.0	Overburden									
10.0	19.0	dark grey greywacke, weakly foliated @45°. locally brecciated chloritized. breccia fragments, 1-2", spearated by quartz, calcite stringers. gwke fractured @40°, 50-55° between 10.0-19.0'. rust staining coating broken core, fracture surfaces (10.0-19.0') f-med. gr. arsenopyrite (10.0-15.0'). 11.0 - 5" qtz filled fractures @40° c. grain arsenopy in wall rock. biotite @ contact. specks pyrite in qtz.	2722		10.0	11.0	1.0			Tr.	
		12.0 - 2.5 grey qtz @50° f. gr. massive pyrite, arsenopye. 13.5 - qtz @40° arsenopyrite in wall rock. 16.0 - 2.0" qtz @40° orange rust coating qtz biotite.	2724		16.0	17.0	1.0			0.01	
19.0	21.0	light green siliceous breccia. gwke chloritized, extensive qtz veining. breccia fragments * massive (weak brecciation) thin pyrite stringers through breccia.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 6 SHEET NO. 2 of 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		22.0 fault gouge @20°									
21.0	27.0	light green chloritic gwke									
		22.5 3.0 qtz @ 50° chloritized fragments of gwke. biotite thin films of pyrite coating gwke.	2726		22.0	23.0	1.0			Tr.	
		26.0 fault gouge @40°									
27.0	29.0	light green chloritized gwke. irregular calcareous calc silicate veining.									
29.0	31.0	d. grey gwke.									
31.0	33.0	l. green chloitized gwke, f- med. garnet in wacke. orange brown rust coating fracture, then pyrite stringers .									
33.0	51.0	dark grey gwke weakly foliated @45°. fractured @ 35°, 45-50°. rust coating fracture surfaces. pyrite stringering in more siliceous zones. f-med gr. arsenopyrite (34.0-38.0')									
		44.5 2.0" garnetiferous calc silicate.									
		46.0 qtz irregularly infilling gwke. wall rock chloritized leached texture to core. pyrite stringering	2727		45.0	47.0	2.0			Tr.	
		47.0 gouge material @30°.									
		48.5 .5 grey qtz @50° small blebs, thin stringers of pyrite along wall rock contact.	2728		48.0	49.0	1.0			Tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 6 SHEET NO. 3 of 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		50.0 fault gouge @50°, foliation of gwke @55°. specks of yellow clay in gwke.									
		51.1 1.0" qtz @55° qtz well fractured. gwke fragments, biotite in qtz. rust coating qtz (spotty). < ½ grey qtz @ 50°. local to this qtz, 1.0" qtz offset .1" to left by tight qtz filled fracture @40°	2729		51.5	52.5	1.0			Tr.	
		53.5 <.5" qtz @ 55°.	2730		53.0	54.0	1.0			Tr.	
51.0	85.0	light grey siliceous wacke, massive, foliated @45° qtz, calcite to assoc pyrite stringers. d. argillitic material filling fractures									
		55.0 1.0" calcareous calc silicate @53° (garnetiferous)									
		56.5 1.5 calcareous calc silicate @55°									
		57.0 remanent leached calcite in fracture.									
		59.0 - 59.5 l. green siliceous wacke. brecciated, rounded qtz fragments in breccia. orange felsic veins stringering through breccia. wacke foliated (moderately, wacke sercitic) @48°. wacke fractured @50°									
		60.5 2.0" calc silicate @40° pyrite stringering									
		64.0 .5" qtz @55° biotite, pyrite stringers (@50°) @ wall rock contact	2731		63.5	64.5	1.0			Tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 6 SHEET NO. 4 of 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		66.0 -67.0 strong fracturing @50°. gwke-light green, silicified soft, serecite									
		69.5 < ¼" grey qtz @40°. grainy pyrite blebs	2732		69.0	70.5	1.5			Tr.	
		70.0 1.0" qtz @55° ptrrhotite blebs ringed by biotite.									
		71.0 speck of galena coating fracture surface. calcite stringering foliation of wacke @45°									
		72.0 < ¼" grey qtz @52°. pyrite assoc to calcite @ wall rock contacts, and local wacke	2733		71.5	72.5	1.0			Tr.	
		74.5 < .5" grey qtz @40°. pyrrhotite ringed by biotite, pyrite @ contact.	2734		74.0	75.0	1.0			Tr.	
		75.0 < .5 qtz @50°.	2735		76.5	77.5	1.0			Tr.	
		77.0 < .5 grey, qtz. pyrite specks @ contact (wall rock)									
		81.5 -82.0 gwke, weakly brecciated.									
		83.5 1.0" calcareous calc silicate @50°.									
85.0	88.0	grey gwke, weakly foliated @50°. chloritized ~~to~~ qtz-calcite stringering. gwke massive, pyrite coating fracture surfaces (85.0-88.0)									
		87.5 < ¼ grey qtz @50°.	2736		87.0	88.0	1.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 6 SHEET NO. 5 of 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
88.0	106.5	1. grey siliceous greywacke	2737		89.5	90.5	1.0			Tr.	
		90.0 < .5" qtz @ 55°									
		90.1 grey qtz @55°									
		92.0 } .5 " calcareous calc silicate @50° (garnetiferous)									
		93.0 }									
		94.0 1.5" calcareous calc-silicate @ 50° (garnetiferous).									
		95.5 < .5" qtz @60° bo mineraliz observed									
		99.0 < ¼ qtz veins @ 60° thin c. rock zones between qtz.	2738		98.5	99.5	1.0			tr.	
		biotite, pyrite specks, arsenopy. stringer in qtz c. gr arsenopyr									
		in qwke.									
		102.5 .5 qtz @60°. gouge material @50°	2739		102.5	103.5	1.0			tr.	
		106.5 < ¼" qtz @55°									
		107.5 < .5 qtz @60°. qtz offset .5" to left, some qtz offset to									
		right 2.0" fragments of wacke in qtz									
106.5	113.0	light brown grey brecciated gwke. weakly silicified fragments	2740		106.5	107.5	1.0			tr	
		2-4" spotty chloritiz of gwke local to qtz, calcite stringering									
		calcite leaching fractures between 106.5-113.0'									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 6 SHEET NO. 6 of 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		114.0 < ¼" grey qtz @50°. f.- grain garnet, staurolite @ wall rock local fracturing @45°.	2741		114.0	115.5	1.5			tr	
		116.5 <.5" grey qtz, biotite. qtz. fracture offset 1.0"to left some fracture offset .5" to right.	2742		116.0	117.0	1.0			tr.	
113.0	122.0	grey gwke. weakly foliated @55°, massive gwke	2743		118.5	119.5	1.0			tr.	
		119.0 < ¼" qtz @55° (grey)									
122.0	140.0	light grey siliceous gwke									
		122.5 .5 qtz @46° orange felsic veining in qtz. qtz offset 1.0" to left.	2744		122.0	123.5	1.5			0.04	
		123.5 .5" qtz @50° massive pyrite stringer.									
		125.5 3.0" light green chloritized greywacke, fracturing @45°									
		126.5 .5" qtz @50° calcite fractures in qtz @50° felsic material med gr. garhet @ wall rock.	2745		126.0	127.0	1.0			tr.	
		128.0 pyrite in tight fracture @20°									
		130.0 < ¼" grey qtz @50° pyrite specks	2746		129.5	131.0	1.5			0.02	
		130.0 fault gouge @50°									
		131.5 .5" calcareous calc silicate. pyrite and calcite @ wall rock. biotites in silicate have linear arrangement @50°	2747		138.5	140.0	1.5			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 6 SHEET NO. 7 of 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		139.0 < .5" qtz @50°. pyrite stringer intersecting qtz @45°									
		140.0 1.5" calc silicate @50°									
		142.0 1.0" calc silicate @50°	2748		142.5	143.5	1.0			tr.	
		143.0 < ½" grey qtz @55°									
140.0	145.5	chloritized siliceous gwke. core fractured @45°									
145.0	152.0	light grey siliceous wacke.									
		145.5 1.5" qtz @55° specks of pyrite, short pyrrhotite stringer	2749		145.5	146.5	1.0			tr.	
		148.5 < .5" qtz @50°.	2750		148.0	149.0	1.0			0.01	
		143.0-152.0 calcite stringering, weak brecciated gwke between									
		147.0-152.0' fragments massive. (weak brecciated)									
		152.0 -- End of Hole COHA 6									

Leonard J. Kelly May 30 '81

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour
HOLE NO. COHA 7 LENGTH 288.0
LOCATION 63+40N/8+40W Country Harbour Grid
LATITUDE DEPARTURE
ELEVATION 1205.1' AZIMUTH 242° DIP 50°
STARTED March 3, 1981 FINISHED March 6, 1981

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100.0	48.°				
288.0	46.°				

HOLE NO. COHA 7 SHEET NO. 1 of 11
REMARKS AQ Dixon Drilling
LOGGED BY B. .Kelly

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0.0	17.5	overburden									
17.5	30.5	siliceous greywacke, grey to black, weak to medium foliation @35°. gwke is massive, and chloritized local to qtz stringering. minor brecciation of gwke by yellow brown qtz stringers @20.5'..breccia fragments < ¼inches. thin zones of interbedded schist (about 5%). orange brown staining coating broken core surfaces.	2759		19.5	20.5	1.0			tr.	
		20.0 < ¼ grey qtz filled fractures @40°. speck of pyrite infilling qtz biotite. garnets in immediate wall rock.									
		24.0 < ¼ veins of qtz infilling gwke. qtz is grey, discontinuous @60°	2760		23.5	24.5	1.0			tr.	
		26.0) 1.5" calcareous calc silicate @60°. biotite and garnets 27.2) in a linear arrangement to foliation									
		28.0 < .5 l. grey qtz @60° thin stringers of quartz cutting qtz.	2761		27.5	28.5	1.0			tr.	
		29.0-29.4 chlorite biotite schist. schist soft crumbly, moderate foliation @55°. matrix chloritic.									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 7 SHEET NO. 2 of 11

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		30.0 1.5" calcareous calc silicate @55°.	2762		30.0	31.0	1.0			tr.	
30.5	37.5	chloritized siliceous gwke. light green, massive, foliation @60° weaker in more silicified gwke. fracturing of gwke @45°-50°. qtz, calcite stringering common. pyrite to qtz in tight fractures. upper contact @50°.									
		30.5 1.0" light grey qtz @50° thin lenses of green gwke contained in qtz. specks of pyrrhotite. ¼ qtz offset to left by 2/16". calcite stringering cutting qtz 11 to core axis.									
37.5	71.0	grey gwke to 20% biotite schist. foliated @60° fracturing @60-65°. chloritized gwke irregular containing garnets. calcite stringering common in pyrite. upper contact gradational.									
		66.5 .5" l. grey qtz @50° specks of biotite.	2769		66.0	67.0	1.0			Tr.	
		67.0 biotite schist foliated @45°.									
		67.5 fault gouge @55° calcite, galena coating broken core.									
		68.0 grey qtz @50° thin specks of pyrite	2770		67.5	68.5	1.0			tr.	
		< 70.0 .5 qtz @60°.	2771		69.5	70.5	1.0			tr.	
71.0	73.5	light green chloritized siliceous gwke. calcite, pyrite infilling fractures									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 7 SHEET NO. 3 of 11

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		72.0 <¼" grey qtz @55° no mineraliz obeerved	2772		71.5	73.5	2.0			tr.	
		73.2 <.5" grey qtz @55°	2773		73.5	75.5	2.0			tr.	
		75.5 <.5 grey qtz @55°.									
73.5	86.1	brecciated wacke, by qtz, calcite stringering. pyrite stringers common									
		77.2 < ¼grey qtz @50°	2774		77.0	78.0	1.0			tr.	
		84.5 <.5 milky qtz @60°, biotite	2775		83.5	85.0	2.0			tr.	
		86.4 <.5 grey qtz @50°, pyrite stringers @ contact to wall rock	2776		86.0	88.0	2.0			tr.	
		(schist) also intersects qtz vein.									
		40.4 galena (euhedral) to calcite, pyrite coating broken core.									
		42.0 2.0" light grey qtz @55°. lenses of chlorite schist	2763		41.5	42.5	1.0			tr.	
		in qtz. orange clay coating a tight fracture on qtz. biotite									
		infilling qtz.									
		43.9<¼" grey qtz @56° thin stringers of pyrite in qtz. fractures	2764		43.5	44.5	1.0			tr.	
		garnet, staurolite in local schist.									
		45.5 fault gouge @70°.									
		49.0 thin grey qtz @55° pyrite stringer along contact to wall	2765		48.5	49.5	1.0			0.03	
		rock.									
		50.0 pyrite coating broken core.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Co[illegible]ry Harbour

HOLE NO. COHA 7 SHEET NO. 4 of 11

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS		ASSAYS OZ TON	ASSAYS OZ TON	
		51.5 thin grey qtz @55°	2766		51.0	53.0	2.0			0.01		
		52.7 < .5" l. grey qtz @55°, biotite in qtz.										
		53.7 <.5" grey qtz @55° f.med grains of arsenopyrite, stringers	2767		53.5	54.5	1.0			0.03		
		of pyrite in qtz, local schist.										
		55.6 lenses of grey qtz in schist. biotite @ wall rock. rock	2768		55.5	56.5	1.0			0.01		
		contact.										
86.1	88.5	biotite schist, foliated @50°										
		86.6 grey qtz @55°. pyrite stringers fill fractures in qtz.										
		88.5 slicken-side @50°.										
88.6	103.8	grey siliceous gwke to section of chloritized silicified gwke										
		(local to qtz stringering) . 91.3 bedding @ 61°. gwke weakly										
		foliated.										
		91.3 < ¼ grey qtz @52° biotite infilling qtz fractures	2781		91.0	92.0	1.0			tr.		
		95.5 milky qtz @55°. specks of pyrrhotite, pyrite @ wall rock	2782		94.5	95.5	1.0			tr.		
		contact. light gouge material @60°.										
		96.2 1.0" calcareous calc silicate @58°.										
		97.5 < ¼" grey qtz @60°.	2783		97.0	98.0	1.0			0.01		

DIAMOND DRILL RECORD

NAME OF PROPERTY Co[illegible]ry Harbour

HOLE NO. COHA 7 SHEET NO. 5 of 11

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		99.5 4.0" milky qtz @60° thin lense of argillitic clays in tight qtz fractures. specks of arsenopyr and pyrite, pyrrhotite, (thin stringers), biotite - 1%.	2784		99.0	100.0	1.0			tr.	
		101.0 .5" milky qtz @55°. speck pyrite. small blebs of pyrite-pyrrhotite.	2785		100.5	107.5	1.0			tr.	
		102.0 < ½" grey qtz @57°	2786		101.5	102.5	1.0			tr.	
103.8	106.5	biotite schist, foliated @60° staurolite scattered.									
		104.2 thin grey qtz @60°	2787		104.0	107.0	3.0			0.01	
		106.0 2.0" milky qtz @60°. specks of arsenopyrite, calcite, biotite in tight qtz fractures. purple staining coating broken qtz core.	2788		113.5	114.5	1.0			0.01	
106.5	169.5	grey gwke to 20% siliceous gwke, biotite schist.									
		113.6 < ½ grey qtz @68°	2789		116.0	117.0	1.0			tr.	
		114.4 fault gouge @60°.									
		116.5 < ½ grey qtz @60°. pyrite stringers @ wall rock contact.									
		119.8 1.0" calcareous calc silicate @50°									
		125,9 .5" grey qtz @60° arsenopyrite grains, specks of biotite.	2790		125.5	126.5	1.0			0.01	
		129.0 milky qtz lense irregular in gwke. euhedral pyrite in fractures.	2791		128.5	131.5	3.0			0.01	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 7 SHEET NO. 6 of 11

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		131.0 < .5 qtz @57°, light grey, biotite, pyrite @ contact to wall rock.									
		133.5 .25 milky qtz @55°.	2792		133.0	134.0	1.0			0.02	
		137.0 .25 milky qtz @55°.	2793		136.5	137.5	1.0			0.01	
		138.0 1.0" calc silicate @65°.									
		141.5 < ½" light grey qtz @60°	2794		141.0	142.5	1.0			tr.	
		143.5 1.0" calcareous calc silicate @60°.									
		145.8 3.0" qtz (milky) @50°. specks of pyrite, biotite flakes.	2795		145.0	146.0	1.0			tr.	
		147.3 < .5 milky qtz @50°.	2796		146.5	147.5	1.0			tr.	
		149.5 < ½ grey qtz @60° thin pyrite stringers	2797		149.0	150.0	1.0			tr.	
		151.6 < ½ grey qtz @60°.	2798		151.0	152.0	1.0			tr.	
		152.9 < .5 milky qtz, qtz infilling irregularly, small pyrite blebs @ wall rock contact.	2799		152.5	153.5	1.0			tr.	
		154.0 fault gouge, chloritized fine clay @30°. (153.7-154.0)									
		158.0 fault gouge @35°	2800		159.5	160.5	1.0			tr.	
		160.2 1.0" milky qtz @48°. no mineraliz observed.									
		164.0 .25" grey qtz @40° short stringers of pyrite, pyrrhotite.									
		164.5 1.5" calcareous calc silicate	2801		164.0	165.0	1.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country [redacted]bour

HOLE NO. COHA 7 SHEET NO. 7 of 11

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		164.1 .25" grey qtz @45°. small blebs of pyrite, local brecciation by qtz, calcite stringers. slickensides parellel to core axis.									
		168.0 4.0" calcareous calc silicate.	2802		168.0	169.0	1.0			tr.	
		168.3 .25" grey qtz @55°. pyrite speck, yellow clay, specks in fractures.									
169.5	171.5	chloritized biotite schist. contact @48°,									
171.5	181.7	grey gwke, massive, locally brecciated.									
		172.5 .25 calc silicate lense, pyrite stringer.									
		174.5 1.0" calcareous calc silicate.									
		175.6 4.0" calcareous clac silicate.									
		177.5 .25" grey qtz @50°. specks of pyrite.	2803		181.0	182.5	1.5			tr.	
		181.7 < .5 l. grey qtz. qtz offset .25 to right. calcite stringers.									
181.7	182.5	weak brecciation of gwke by qtz, calcite stringering.									
		186.0 .25 grey qtz @55°. pyrite stringer.	2804		185.5	186.5	1.0			tr.	
		190.5 .25 grey qtz @45°.									
182.5	192.7	grey gwke.									
192.7	193.5	weakly brecciated siliceous gwke. calcite stringering, assoc pyrite.									

DIAMOND DRILL RECORD

NAME OF PROPERTY [redacted] Country Harbour

HOLE NO. COHA 7 SHEET NO. 8 of 11

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	%	OZ TON	OZ TON
		193.5 short discontinuous grey qtz @50°.	2805		190.5	191.5	1.0			tr.	
		194.5 <.5" milky qtz @55° offset qtz fracture local to milky qtz. offset. .5" to left. calcite stringering.									
193.5	197.5	grey gwke.	2806		194.5	195.5	1.0			tr.	
197.5	198.5	brecciated gwke, qtz - calcite stringering. fragments .2-4".									
		197.5 fault gouge @45°.									
198.5	245.9	gwke foliation @50° (203.5').									
		200.6 <.5 milky qtz @50° stringers of grainy pyrite	2807		200.0	201.0	1.0			tr.	
		202.5 4.0" calcareous calc silicate.									
		203.5 weak fault gouge @50°.									
		205.8 <¼" grey qtz @50°.	2808		205.5	206.5	1.0			tr.	
		206.5 3.0" calc silicate, massive color staining silicate.									
		208.0 .25" calc. silicate @50°.	2809		208.0	209.0	1.0			tr.	
		203.4 fault gouge @50°.									
		208.6 .25" grey qtz @40°. small ,specks of pyrite (grainy) in qtz.									
		211.7 .25" grey qtz @45°. small specks of pyrite.	2810		211.0	212.0	1.0			tr.	
		212.5 .5" milky qtz @50°. chloritic gwke (wall rock)									
		214.0 2.0" calcareous calc silicate @40°.	2811		212.0	213.0	1.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 7 SHEET NO. 9 of 11

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS		ASSAYS OZ TON	ASSAYS OZ TON	
		217.8 .25 grey qtz @40°. speck of pyrite	2813		216.0	217.0	1.0			tr.		
		220.2 4.0" calc silicate @40°.	2812		217.5	218.5	1.0			0.01		
		221.4 slicken sides @35° clean fracture. gwke brecciated brown qtz separating. 1-2" gwke fragments. breccia (221.4-222.4) f. med grain arsenopyr to pyrite coating fracture @ 222.5'.										
		223.0 1.0" chloritized calc silicate @48°.										
		226.0 1.0" ground core.										
		227.7 .25 milky qtz @50°. chloritic fragments, garnet in qtz.	2814		227.5	228.5	1.0			tr.		
		227.9 .25" light grey qtz. @55° no mineraliz observed.										
		229.5 1.5" calc silicate @50°.										
		230.0 .25 l. grey qtz mixed to felsic material, @55°.										
		235.1 ground core, (fragments).										
		238.1 fault gouge @55°.										
		238.5 <.5" light grey qtz @33° felsic lenses and gwke fragments in qtz.										
		239.0 calcareous calc silicate @40°.										
		242.0 chloritized calcareous calc silicate @45°.	2815		242.5	243.5	1.0			tr.		
		243.0 .25 grey qtz @45° fracture offset .25" to left.										

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 7 SHEET NO. 10 of 11

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		244.4 1. grey qtz @45°. chloritic color to qtz (spotty) fine yellow clay in qtz fractures.	2816		244.0	245.0	1.0			tr.	
245.9	246.5	brecciated gwke fragments .2-.8".									
		247.5 .25 1. grey qtz @40°. no mineraliz observed.	2817		247.0	248.0	1.0			tr.	
246,5	248.7	grey gwke.									
248.7	257.2	1. green chloritized siliceous gwke.									
257.2	266.5	grey gwke.									
		252.0 ± .25 1. grey qtz @50°. biotite, chloritic filled fractures. qtz. fractures offset. .3" to right. 251.7-251.9 strong core fracturing @60°	2818		251.5	252.5	1.0			tr.	
		256.0 2.0 calcareous calc silicate @40°									
		258.7 < .5 calcareous calc silicate @40°. specks of pyrite. pyrrhotite.									
		259.5 .25 grey qtz @50°.	2819		259.0	260.0	1.0			tr.	
		266.7 .25 grey qtz @45°. biotite.	2821		266.0	267.0	1.0			tr.	
266.5	269.2	grey to black biotite schist. foliation @48°. f. med grain subhedral staurolite interbedded. gwek.									
269.2	271.5	gwke.									
		270.0 .25 grey qtz @40° thin stringers of pyrite	2820		269.5	270.5	1.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 7 SHEET NO.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		271.0 4.0" calcareous calc silicate @50°.									
		271.5 fault gouge @45°.									
271.5	272.5	chloritized siliceous brecciated gwke.									
272.5	288.0	grey gwke to interbedded bands of schist.									
		273.0 2.0" calc silicate @40°.									
		285.0 .25" grey qtz @40°. speck of pyrite. foliation of schist									
		@40°.	2822		277.0	277.8	1.8			tr.	
		285.7 1. grey qtz, irregularly infilling schist.	2823		285.5	286.5	1.0			tr.	
		287.0 .25 grey qtz. @50°. small flakes of biotite.									
		288.0 End of Hole COHA 7.									

May 26 '81

DIAMOND DRILL RECORD

NAME OF PROPERTY [redacted]

HOLE NO. _____ SHEET NO. _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS		ASSAYS OZ TON	ASSAYS OZ TON	
		~~Summary of COHA 7~~										
0.0	7.5	overburden										
17.5	30.5	grey to black qtz wacke										
30.5	37.5	light green chloritized qtz wacke										
37.5	71.0	grey gwke to 20% biotite schist.										
71.0	73.5	light green chloritized qtz wacke										
73.5	86.1	brecciated grey wacke										
86.1	88.5	biotite schist										
88.5	103.8	grey qtz wacke to sections of chloritized siliceous gwke.										
103.8	106.5	biotite schist										
106.5	169.5	grey gwke to 20% grey qtz wacke and 20% biotite schist										
169.5	171.5	light green chloritized biotite schist.										
171.5	181.7	grey gwke, massive, locally brecciated										
181.7	182.5	weak brecciated gwke										
182.5	192.7	grey gwke										
192.7	193.5	weak brecciated qtz wacke										
193.5	197.5	gwke gwke										
197.5	198.5	weak brecciated grey gwke										
198.5	245.9	grey gwke										
245.9	246.5	weak brecciated grey gwke										
246.5	248.7	grey gwke										

DIAMOND DRILL RECORD

NAME OF PROPERTY: Country Harbour
HOLE NO.: COHA 5 LENGTH: 149.0
LOCATION: 54 + 00N/7 + 50 W C. Harbour Grid
LATITUDE: DEPARTURE:
ELEVATION: 1148.0' AZIMUTH: 242° DIP: 60°
STARTED: Feb. 18/81 FINISHED: Feb. 21/81

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100.0'	60°				

HOLE NO. COHA 5 SHEET NO. 1 of 8
REMARKS Dixon Drilling-AQ

LOGGED BY B. J. Kelly

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON

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DIAMOND DRILL RECORD

NAME OF PROPERTY Country House

HOLE NO. Conn 5 SHEET NO. 1 of 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
0	12.0	Overburden									
12.0	67.0	Medium grey greywache, massive, poorly to moderately foliated. Gwke chloritic, increasingly schistose and brecciated local to 1.0 - 2.0" qtz. sections. Fine to c. grain arsenopyrite through gwke to c. grain, arsenopyrite confined mostly to schistose sections. Scattered specks of pyrrhotite-pyrite, pyrite stringers through gwke. Light fracturing at gwke @ 30°., 40° - 50° (12.0 - 67.0'). Rust coating broken core, pyrite stringers between 12.0 - 18.0'. 15.0 -, 18.0, 21.0 - 26.5 siliceous brecciated gwke, thin qtz. stringering, local chloritization of gwke. 20.0 - 30.8" qtz. filled fractures @ 25°, pyrite stringers, biotite in qtz. fractures, arsenopy along contact to qtz.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 5 SHEET NO. 2 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		24.5 ≤.5" qtz. @30° intersecting breccia, thin biotite flakes in qtz., f. grain arsenopyr, pyrite grains in breccia.	2691		24.0	25.0	1.0			0.01	
		27.5 series at ≤.5" qtz. @ 40°. qtz. containing thin, short, light yellow clays filling fractures minor biotite, spotty garnets @ wall rock.	2692		27.0	28.0	1.0			0.01	
		28.0 foliation of gwke @ 25 (weak)									
		30.0 ≤.5 qtz. fracture @ 28° massive pyrite, arsenopyr pyrrhotite in filling fractures in qtz. f. gr. arsenopyr in c. rock.	2693		29.5	30.5	1.0			TR	
		35.5 ≤0.5" qtz. @ 35° biotite in qtz. to euhedral arsenopyr @ wall rock	2694		35.0	36.0	1.0			TR	
		37.5 ≤.5 qtz. @ 25°. calc silicate material, pyrite stringers in qtz, galena speck in calcite stringer cutting qtz. light green staining to qtz.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 5 SHEET NO. 3 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		Scattered pyrite in gwke.									
		60.0 gwke weakly foliation @ 45° scattered arsenopyr.									
		59.0 - 63.0 core fractured, short blocky sections @ 40°, 50°.									
		61.5 1.0" qtz. @ 40° thin flakes of pyrite in tight quartz fractures, arsenopyr @ wall rock.	2702		61.0	63.5	2.5			TR	
		63.5 1.0" qtz. fractures @ 40° small massive blebs of pyrite, pyrrhotite in short fractures in qtz.									
		64.0 4.0" massive qtz. @ 40° biotite in fractures. med gr. granets, arsenopyr @ wall rock.	2703		63.5	65.0	2.0			TR	
		65.5 1.5" qtz. @ 40° med gr. subhedral arsenopyr ringed by pyrrhotite, thin pyrite stringers local to arsenopyr.									
		65.5 .5" qtz. @ 40° small specks of pyrite in fractures c. gr. arsenopyr in broken qtz. core.	2704		65.0	66.5	1.0			TR	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 5 SHEET NO. 4 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
67.0	68.0	Strongly fractured gwke.foliated @ 30° f-c. gr. arsenopyr parellel to 30°, specks of pyrrhotite, pyrite commom.									
		67.5 fault gouge @ 67.5									
68.0	73.0	Med. grey gwke.									
		68.5 ¢.5 qtz @ 40° pyrite stringer, subhed arsenopyr @ contact to wall rock. biotite filled fractures grey qtz.	2705	cl	68.0	69.0	1.0			TR	
		71.0 ¢.5 grey qtz. @ 40° pyrite stringers, biotite.	2706		70.5	71.5	1.0			TR	
73.0	76.5	Qtz. veining. qtz veins 0.5 - 6.0 ". pyrite stringering, spotty blebs of pyrrhotite, minor biotite, d. green aryillaceous clays filling qtz fracturing, weak brecciation of local gwke.	2707		73.0	76.5	3.5			TR	
		77.9 .25" d. grey qtz @ 40°									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 5 SHEET NO. 5 Of 8

FOOTAGE FROM	FOOTAGE TO		DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		78.0	0.5 qtz @ 40° chlorite staining of qtz. biotite in qtz. arsenopyr in wall rock.	2708		77.5	78.5	1.0			TR	
		39.5	1.0" qtz. @ 40°. c. gr. arsenopyr pyrite stringers in qtz.	2709		79.0	80.5	1.5			TR	
76.5	81.0		med. grey gwke.									
81.0	83.5		light grey siliceous wacke, massive, weakly foliated @ 35° qtz. calcite stringering brecciating wacke @ 88.0 - 90.0'. wacke chloritized local to stringering.f. gr. arsenopyr. (<1%) pyrrhotite, specks of pyrite through wacke.									
83.5	85.5		milky qtz. veining @ 35° scattered stringers of pyrite. weak breccation of wacke.	2710		83.5	85.5	2.0			TR	
85.5	97.4		light grey siliceous wacke.									
		90.0	fault gouge @ 30°									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 5 SHEET NO. 6 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		90.5 Thin qtz. @ 35° pyrrhotite, minor pyrite in fractures.	2711		89.0	91.0	2.0			TR.	
97.4	108.9	Quartz veining qtz. veins 2/16 " - 6.0". f.- c. gr. arsenopyr, specks of pyrite, pyrrhotite in qtz. veins.	2712		98.0	100.5	2.5			TR	
		foliation of chloritic biotitic schist between qtz. veins 45° @ 99.6. f.-c. gr. arsenopyr in Schist (<1 %).									
		98.5 1.5 " qtz. @ 40° biotite, spotty pyrite, arsenopyr in fractures, f. gr. arsenopyr in wall rock.									
		99.5 2/16" qtz. @ 40°.									
		100.5 6.0" qtz. @ 40° massive arsenopyr mineral, pyrite, calcite stringers, biotite, c. rock fragments in qtz.	2713		100.0	101.5	1.5			0.09	
		103.0 6.0" qtz. @ 40°, chlorite staining at qtz. fracture biotite filled fractures in qtz.	2714		102.5	105.5	3.0			TR	
		104.0 6.0" qtz. @ 40°.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 5 SHEET NO. 7 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION		SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		108.5	0.5" qtz. @ 40° biotite filled fractures. No Mineralsz. observed.									
108.9	113.5		Light grey brown gwke, weakly brecciated to qtz. stringering, minis calcite stringers, pyrite stringers common, weak foliation @ 45° @ 115.0'.									
		111.5	2/16" qtz. @ 40°.	2715		111.0	112.0	1.0			TR	
113.5	149.0		Light grey gwke.									
		128.5	0.5" qtz. @ 40°. Pyrite stringering, biotite specks af pyrrhotite, chloritic staining to qtz.	2716		128.0	130.0	2.0			TR	
		129.0	1.0" qtz. @ 40°.									
		135.0	.5 grey qtz. @ 20° specks of pyrrhotite pyrite.									
		135.0	Foliation of gwke @ 25°.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 5 SHEET NO. 8 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		138.0 Calcite filled fractrues @ 25° gwke.leached calcite removal evident. Pyrite grs associated to calcite.	2718		137.5	138.5	1.0			TR	
		140.0 ∢o.5" grey qtz. @ 40° spotty pyrite, pyrrhot, biotite in fractures.	2719		139.5	140.5	1.0			TR	
		144.5 ∢.5 grey qtz. @ 40°.	2720		144.0	145.0	1.0			TR	
		146.5 0.5" qtz. @ 40° speck arsenopyr, pyrite, biotite in qtz. fractures, arsenopyr, biotite in wall rock. gwke siliceous, chloritzed local to qtz. stringering.	2721		146.0	147.0	1.0			TR	
		149.0 End Of Hole. Leonard J. Kelly Feb 22 '81									

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ SHEET NO. _____

Summary of COHA 7 continued

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON	
248.7	257.2	light green chloritized qtz wacke										
257.2	266.5	grey gwke										
266.5	269.2	grey to black biotite schist.										
269.2	271.5	grey gwke										
271.5	272.5	light green chloritized qtz wacke, weakly brecciated										
272.5	288.0	gwke gwke										
		288.0 End of Hole COHA - 7										

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour
HOLE NO. COHA 8 LENGTH 285.5'
LOCATION 67 + 10N/6+40N on C. Harbour Grid
LATITUDE _____ DEPARTURE _____
ELEVATION 1232.2' AZIMUTH 242° DIP -60°
STARTED March 9, 1981 FINISHED March 16, 1981

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100'	63°				
285.5'	57°				

HOLE NO. COHA 8 SHEET NO. 1 of 6
REMARKS AQ Dixon Drilling
LOGGED BY B. J. Kelly

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0.0	14.0	overburden									
14.0	285.5	light grey siliceous greywacke to interbedded grey greywache and biotite schist. siliceous greywacke poorly foliated @ 40°, chloritized local to qtz veining, calcite stringering. b. schist-d. grey to black, slatey, moderately foliated to av. 40° schist contains ≥ 1 % arsenopyr (14.0 -118.0). schist chloritized local to qtz veining. arsenopyr =1% 14.0 - 285.5 orange brown rust coating broken core surface between 14.0 - 26.0' 16.5 1/16" light grey qtz @ 40° small specks of pyrite 17.5 - 18.0 sericitic felsp-qtz pegmatite. sericite flakes in fractures, pegmatite med- c. gr. upper contact @ 50°, lower @ 40°. 18.4 ground core. 18.7 - 19.4 strongly fractured gwke @ 80° 19.4 - 19.5 sericitic felspc qtz pegmatite.	2824		16.0	17.0	1.0			TR	

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DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 2 of 16

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		19.6 1/4" grey qtz @ 13° . grain of pyrite in on g in qtz	2825		19.0	20.5	1.5			TR	
		21.0-22.0 sericitic feldspar-qtz pegmatite. upper contact @ 70° lower contact @ 15 °									
		23.0 scattered med gr. arsenopy im .25" qtz lense	2826		22.5	24.0	1.5			TR	
		28.5-30.0 strongly fractured siliceous wacke @ 75-80° fault gouge (clay & rock fragments) @ 35°.									
		30.5 1/4" qtz (light grey) f. gr. specks pyrite, arsenopyr in wall rock qtz @ 60°	2827								
		34.11" sreies of 2/16" light grey qtz veins. rust coating leeched qtz.pyrite stringers. massive grain of arsenopy @ core break @ 34.8' qtz @ 35° and 40°.	2828		30.0	31.0	1.0			0.01	
		36.0 1.0" calc silicate @ 25°									
		39.5 1.0 calc silicate @ 30°									
		40.0 foliation of wacke @ 30°									
		43.0 1.0" qtz. light grey, rock fragments, garnets, biotite scattered through qtz. qtz @ 30°									
		45.1 1.0" l. grey qtz, thin lenses of biotite in qtz. thin stringers of pyrite intersecting qtz @ 50° qtz fracture @ 30°	2830		44.5	45.5	1.0			TR	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 3 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		49.0 0.5" grey quartz, thin lense biotite, stringers of pyrite, pyrrhotite in qtz, specks of medium grain arsenopyr, qtz fracture @ 30°	2831		48.5	49.5	1.0			TR	
		49.0 weak fault gouge (thin clays) @ 30°									
		52.0-53.0 leached, thin coating of yellow brown clays of broken core.									
		55.10' 1.0" light grey qtz massive stringers of pyrite, lenses of biotite, rock fragments in qtz. arsenopy in wall rock. qtz. @ 25°	2832		55.5	56.5	1.0			TR	
		57.2-58.0 weak brecciation, qtz stringering fragments 2/16"									
		62.2-62.11 4.0" milky qtz. specks of pyrite in tight qtz fractures, arsenopyr & biotite lenses (2/16"), calcite, c. rock fragments in qtz. specks arsenopyr in c. rock. qtz fracture @ 35°	2833		62.0	63.5	.15			TR	
		62.8' 2.0" grey qtz. massive arsenopyr, pyrite, pyrrhotite specks infilling qtz fractures @ rock wall.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 4 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		66.3 1/26" qtz (light grey) biotite in qtz fractures, garnets in wall rock qtz @ 28°	2834		66.0	67.0	1.0			TR	
		64.0 foliation @ 25°									
		70.5-71.0 ground up core									
		71.0-75.4 brecciated siliceous wacke, intense qtz stringering, minor calcite stringering, thin lense pyrite. specks of muscovite @ stringer-wall rock contact. Fault gouge @ 10°									
		74.5 1.0" milky qtz, massive pyrite, specks. pyrrhotite in fractures. chloritic fragments in qtz.	2835		74.0	75.0	1.0			TR	
		74.10" 0.5" calc silicate @ 25°									
		78.0 1/16" light grey qtz. no mineraliz observed qtz. @ 30°									
75.6	83.0	siliceous biotitic greywacke. moderately foliated @ 45°									
83.0	83.1	med gr. sericitic quartz pegmatite. core ground up unable to distinguish contacts.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 5 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
83.1	84.1	dark grey qtzite. specks of pyrite, lower contact into weak breccia (intense quartz stringering). strong fracturing of core @ 30° (84.0-88.5')									
84.1	85.6	brecciated siliceous greywacke.									
85.6	87.5	garnet biotite schist, foliated, moderate @ 30° schist massive, weakly siliceous.									
		87.2 fault gouge @ 25° (clays, rock fragments) thin lenses of arsenopyr in fragments.									
		87.0 2/16" light grey qtz @ 20°	2837		86.5	89.0	2.5			TR	
		88.0-88.5 series of 1.0" light grey qtz veins. specks arsenopyrite, pyrite. c. rock between veins chloritec to garnet, and qtz.									
87.5	90.2	brecciated siliceous gwke. <1.0" chlorite colored qtz. gwke chloritized. thin stringers of pyrite @ contacts.	2838		89.0	90.0	1.0			TR	
		84.0-88.5 stronger fractures @ 30°									
90.4	98.6	light grey siliceous wacke.									
		91.0-91.2 ground up core									

LANGRIDGES – TORONTO – 368-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 6 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		97.6-98.0 strong fracturing @ 30°, orange brown coating broken core.									
98.6	98.8	med. gr. sericite qtz pegmatite. upper contact @ 70°, lower @ 60°									
98.8	104.1	garnet biotite schist, garnets scattered, moderate to poorly developed foliation @ 40°, specks arsenopyr, pyrite, pyrite & calcite filling stringers. schist weakly silicified.									
		99.10" 2/16" d. grey quartz @ 40°	2839		99.5	101.0	1.5			TR	
		100.1 ¼" l. grey qtz. @ 30° specks of pyrite in qtz. specks arsenopyr in c. rock.									
		101.6-104.1 strong fracturing @ 30° in schist foliation @ 40°	2840		102.0	103.0	1.0			0.02	
		102.5 ¼" light grey qtz. qtz. @ 30° immed. c. rock chloritic, specks of pyrite in qtz.									
		104.0 5" light grey quartz @ 35°. f. grain arsenopyr in wall rock, local c. rock.									
104.1	109.0	light grey siliceous wacke.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 7 Of 36

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		109.1 .5" light grey qtz. lense of massive arsenopyr, specks pyrite	2842		108.5	109.5	1.0			TR	
109.0	110.0	silicified schist									
		109.11" 1/16" l. grey qtz. @ 25° c. gr. arsenopyr in filling qtz.									
110.0	183.9	siliceous greywacke									
		111.8-117.3 strong fracturing @ 30°									
		116.6 1.0" grey qtz. @ 30° specks of pyrite, pyrrhotite in qtz	2843		116.0	117.0	1.0			TR	
		118.0 1/16" grey qtz. @ 30°	2844		117.5	118.5	1.0			TR	
		118.3 1/16" grey qtz. @ 30°									
		120.0-120.8 8.0" milky qtz. f. gr. arsenopyr, biotite lenses, specks in qtz. sericite coating broken fractures and contacts to wall rock qtz. @ 30°	2845		121.0	123.5	1.5			TR	
		121.2-121.11" 9.0" milky qtz. massive c. grain arsenopyr @ upper contact (@40°) lower contact @ 70°									
		123.1 1.0" milky qtz. @ 30° specks of arsenopyr in qtz. @ wall rock pyrite, arsenopyr specks.									
		125.0-125.1 ground up core.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 8 of 16

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		126.11 slicken side @ 30°									
		127.10" 1.0" l. grey qtz. massive specks arsenopyr in qtz, along contact to wall rock.biotite in qtz. qtz. @ 30°	2846		127.5	128.5	1.0			TR	
		130.0 .25" l. grey qtz. @ 30°	2847		129.5	130.5	1.0			TR	
		133.9 1/16" grey qtz. @ 30°	2848		133.0	134.0	1.0			TR	
		135.0 1.0" milky qtz. thin short stringers of pyrite. thin flakes of biotite in qtz. qtz. @ 30°	2953		134.0	135.0	1.0			TR	
		139.1 1.0" milky qtz. irregular infilling c. rock.biotite, flake in qtz fractures.	2949		138.5	139.5	1.0			TR	
		139.5-145.0 strong fracturing of core @ 30°, short blocky sections of core. pyrite commonly coating fracture surfaces									
		143.5 4.0" milky qtz. biotite flakes, specks of pyrite filling tight short fractures in qtz. pyrite @ lower contact. (contact irregular between qtz. and c. rock) upper contact @ 50°	2950		143.0	144.0	1.0			tr	
		144.3 milky qtz. infilling greywacke irregularly, pyrite									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 9 of 16

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		139.5-260.0 med. c. gr. arsenopyr scattered over core									
		145.3 1/16" l. grey qtz. f. gr. massive pyrite @ contact to wall rock, quartz @ 45°	2851		145.0	146.0	1.0			tr	
		147.5-148.5 ground fractured core									
		149.5 1.0" white milky qtz. @ 40°	2852		149.0	152.0	3.0			tr	
		149.6 2/16" l. grey qtz. qtz. @ 20°									
		150.5-151.5 1.0" milky qtz. f. gr. blebs of arsenopyr infilling qtz. fractures, @ wall rock (euhedral grs) biotite filled qtz. fractures. f. gr. dark chlorite material scattered through qtz.									
		155.2 1.0" ground core									
		157.9 foliation @ 38°									
		159.0 159.5 ground core									
		159.1 2.0" milky qtz. pyrite, biotite, chloritic f. gr. material in qtz. fractures. calcite stringers irrigularly intersecting qtz.	2854		159.0	161.0	2.0			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 10 of 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		160.5 2.0" milky qtz. biotite filled fractures. pyrite stringers									
		c. gr. pyrite in fractures in qtz. qtz. @ 35°	2859		161.0	162.0	1.0			tr	
		164.5-169.9 sections of milky qtz. upper contact @ 25°, lower	2855		164.5	166.5	2.0			0.01	
		@ 20°. massive f. grain arsenopyr, blebs @	2856		166.5	168.5	2.0			0.20	
		165.5' sericite qtz. pegmatite @ 166.0-166.1	2857		168.5	170.5	2.0			0.01	
		to g. c. @ 166.0-168.0 biotite, pyrite stringers in									
		qtz. fractures. chloritic green staining to qtz. (patchy)									
		173.3 1.0" milky qtz. to biotite in fractures qtz. @ 35°	2858		172.0	173.0	1.0			tr	
		173.1 1.5" l. grey qtz. to biotite qtz. @ 33°									
		187.7 slicken side @ 25°									
		179.5-187.0 weak fracturing of core @ 40°									
183.9	186.0	biotite to f- med. gr. arsenopyr schist. soft, crumbly,									
		weakly fractured @ 40°. foliation @ 35° arsenopyr grains									
		show a linear arrangement to foliation. scattered thin									
		stringers pyrite.									
		185.7 2.0" light grey qtz. biotite, scattered arsenopyr light									
			2860		185.5	188.0	2.5			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 11 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		broken core fractures. thin lense of garnetiferous schist in qtz.									
186.0	193.0	siliceous greywacke									
		187.3 .25' l. grey qtz. biotite, specks of pyrite in qtz. fractures qtz. @ 45°									
		188.0 .25 l. grey qtz. @ 35° l. green chloritic fragments in qtz. c. grain arsenopyr in immed. c. rock.	2861		188.5	190.0	1.5			tr	
		189.0 ~~<~~.5 milky qtz. @ 40° no mineraliz observed.									
		189.5 2/16" grey qtz. @ 35° biotite, arsenopyr in qtz. fractures.									
		189.7 1.0 milky qtz. @ 40° , no mineraliz observed									
193.0	204.5	interbedded chloritic biotite schist and milky qtz. qtz. intersections from 2.0" - 7.0" qtz. @ 40°-45° contains schist fragments, c. - med gr. arsenopyr, biotite in fractures, ~~xxxxxxxxxxxxxxxxxx~~. pyrite scattered over section. grey b. schist, foliation moderate @ 45°-47°. f. med arsenopyr. showing linear arrangement to foliation									

DIAMOND DRILL RECORD

NAME OF PROPERTY: Country Harbour

HOLE NO. COHA 8 SHEET NO. 12 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		193.1 1.0" l. grey qtz.									
		193.5 3.0" milky qtz.	2862		193.0	194.0	1.0			tr	
		194.3 .25" l. grey qtz.	2863		194.0	197.5	3.5			tr	
		194.9 l. grey qtz. irregularly infilling schist									
		194.10 2.0" milky qtz.									
		195.2 2.0" milky qtz.									
		195.2-196.5 milky qtz, thin lenses of chloritic schist containing med-c. grain arsenopyr qtz. intersections 2.0"-7.0"(lenses)									
		195.5 slicken side @ 35° to fractured core									
m		197.0 .25 l. grey qtz.									
		198.0-202.5 section of milky qtz. to lenses of chloritic schist lenses 2.0" - 3.0" @ 200.0, 200.11, 201.4 and 202.0'	2864		197.5	200.5	3.0			tr	
			2865		200.5	204.0	3.5			tr	
		203.3 5.0" l. grey qtz.									
		203.6 1.0" l. grey qtz.									
		203.8 .25" l. grey qtz.									
204.5	235.5	siliceous gwke to ≤5% biotite schist									
		206.1 .25' light grey qtz. calcite stringers intersecting									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 13 of 86

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		qtz. biotite flakes qtz. @ 45°	2866		205.5	208.5	3.0			tr	
		208.0 .25 l. grey qtz.	2867		209.0	211.5	2.5			tr	
		209.6 .25 l. grey qtz. @ 35°									
		211.0 .5" milky qtz. @ 35°									
		212.3 g.c. to scattered pyrite, pyrrhotite coating core									
		213.2 .5" l. grey qtz. specks of arsenopyr, pyrite in qtz. short, thin stringer of galena in local gwke, gwke fragments in qtz. qtz. @ 40°	2868		213.0	215.0	2.0			tr	
		214.5 .5 l. grey qtz. scattered biotite in qtz. fractures qtz. @ 40°									
		218.5 fault gouge @ 40°									
		222.0 thin grey qtz. @ 35°	2869		221.5	224.0	2.5			tr	
		223.5 .25" l. grey qtz. specks of pyrite, small massive blebs of pyrrhotite @ contract. qtz. @ 35°									
		227.4 2/16" grey qtz. @ 40°									
		227.9 .5 l. grey qtz. @ 40° arsenopyr, garnets in wall rock. biotite in qtz. fractures.	2870		227.0	228.5	1.5			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 14 of 84

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		230.0 1.0" l. grey qtz. then short lenses of mixed pyrite-pyrrhotite in qtz. fractures qtz. @ 25°	2872		229.5	230.5	1.0			tr	
		232.2 0.5" milky qtz. @ 40° flakes of pyrite in qtz.	2971		231.8	230.5	1.0			tr	
		234.0 0.5" milky qtz. @ 38° f. gr. biotite in qtz. fractures	2873		234.5	236.5	2.0			tr	
		235.1 4.0" milky qtz. @ 33° biotite, chloritic wacke fragments in qtz.									
235.5	238.5	235.5-238.5 milky qtz. to lenses of chloritic schist (usually less than 1.0 thick) pyrite flakes, f. grain pyrite, med. gr. arsenopyr. on broken core surfaces. spotty pyrite stringers. galena stringer intersecting quartz @ 237-6' c. gr. arsenopyr in schist.	2874		236.5	238.5	2.0			tr	
238.5	246.9	biotite schist, weakly to moderately chloritized, foliated @ 45° f.-c. gr. arsenopyr over sections.	2875		238.5	240.0	1.5			tr	
		239.0 .5 milky qtz. biotite in fractures qtz. @ 47°									
		239.5 3.0" milky qtz. arsenopyr specks qtz. @ 40°									
		241.2 5.0" milky qtz. arsenopyr specks, biotite qtz. @ 47°	2876		240.5	242.0	1.5			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 15 of 86

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		244.7 1.0" milky qtz. biotite qtz. @ 37°	2877		244.5	245.5	1.0			0.01	
246.9	251.5	milky veining to lense of chloritic biotite schist. schist	2878		246.5	248.5	2.0			tr	
		foliated @ 47°, siliceous. med. c. gr. arsenopyr over	2879		248.5	251.5	3.0			tr	
		246-9-251.5. schist lenses @ 247.0-247.5, 248.0-248.6,									
		250.8-250.10" qtz. contacts between 40°-42°. specks of									
		arsenopyr, pyrite, chloritic schist fragments, biotite									
		in qtz.									
251.5	285.5	grey siliceous wacke, locally sheard, brecciated,	2880		254.0	257.0	3.0			tr	
		weakly foliated @ 47°									
		254.5 2.0" milky qtz. biotite, chloritic wacke fragments in qtz.									
		255.2 2/16" d. grey qtz. qtz. @ 45°									
		256.5 1.0" l. grey qtz. biotite									
		257.9 0.5" calcareous calc silicate @ 43°									
		258.10 0.5" l. grey qtz. @ 52° specks of biotite									
		253.0-280.0 weak fracturing @ 45° - 50°									
		260.0 1.0 milky qtz. flakes, specks of pyrite, qtz. @ 40°	2881		259.5	262.5	3.0			tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 8 SHEET NO. 16 of 16

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON	
		261.5 .25 l. grey qtz. qtz. @ 45°										
		264.2 4.0" l. grey qtz. biotite, sericite, wacke fragments specks arsenopyr in qtz.	2882		263.5	264.5	1.0			tr		
		268.7 1.0 l. grey qtz. specks of biotite, pyrrhotite. qtz. @ 47°	2886		268.0	269.0	1.0			tr		
		272.0 3.0" milky qtz. thin stringers of pyrite in wall rock qtz. @50°	2883		272.0	273.0	1.0			tr		
		273.5-276.5 weak brecciation of siliceous wacke qtz, lesser calcite stringering. breccia fragments .2-.4"										
		276.3 .25" milky qtz. calcite stringers intersecting qtz. irregularly qtz. @ 90°	2884		275.0	277.8	2.8			tr		
		277.3 1.0" d. grey qtz. garnetifeous biotite fragments in qtz. specks of pyrrhotite pyrite @ 40°										
		283.10 .5" milky qtz. biotite flakes, gwke fractures in qtz. qtz. @ 40°	2885		283.5	285.5	2.0			0.02		
		284.8 2/16" d. grey qtz. specks of pyrrhotite qtz. @ 55°										
		END OF HOLE @ 285.5'										

Bernard J Kelly March 17 '81

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ SHEET NO. _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION Summary of COHA 8	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
0.0	14.0	overburden									
14.0	285.5	light grey siliceous gwke interbedded to grey gwke and biotite schist									
		57.2-58.0 weak brecciation									
		62.2-63.5 qtz veining									
		70.0-75.4 brecciated siliceous gwke									
		75.6-83.0 biotite siliceous gwke									
		83.0-83.1 sericite qtz pegmatite									
		83.1-84.1 dark grey zite									
		84.1-85.6 brecciated siliceous gwke									
		85.6-87.5 garnet biotite schist									
		87.5-90.2 brecciated siliceous gwke									
		98.6-98.8 sericite qtz pegmatite									
		98.8-104.1 garnet biotite schist									
		109.0-110.0 garnet biotite schist									
		120.0-123.5 qtz. veining									
		164.5-169.9 milky qtz. veining									
		183.9-186.0 biotite schist									
		193.0-204.5 interbedded chloritic biotite schist and milky qtz veining									

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ SHEET NO. _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		Summary continued COHA 8									
		204.5-235.5 siliceous wacke to = 5% biotite schist									
		235.5-238.5 milky qtz veining to chloritic schist									
		238.5-246.9 biotite schist									
		246.9-251.5 milky qtz. veining to chloritic siliceous schist									
		273.5-276.5 weak brecciation of siliceous greywacke									
		185.5 end of drill hole COHA - 8									

Leonard J. Kelly
May 30 '81

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour
HOLE NO. COHA 9 LENGTH 327.0°
LOCATION 53+63N/5+63W
LATITUDE _____ DEPARTURE _____
ELEVATION 1203.3' AZIMUTH 242° DIP -60°
STARTED March 9,1981 FINISHED March 23,1981

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100.0	62°				
327.0	57°				

HOLE NO. COHA 9 SHEET NO. 1 of 14
REMARKS AQ Dixon Diamond Drilling

LOGGED BY B. Kelly

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0.0	6.0	overburden									
6.0	19.5	dark grey siliceous greywacke interbedded with garnet-biotite schist. gwke massive, foliated @33° (poorly to moderately). fracturing locally @ 20°, 30°-40°, (6.0-65.5) schist 20% orange brown rust staining broken core, fracture surfaces. (6.0-31.5) scattered pyrite stringers. 12.6 1.0" calcite silicate @30°. 15.6 3.0" calcite silicate @15°.									
19.5	44.5	garnet biotite schist. foliated @33°. 27.1 fault gouge @15°. 28.8 10.0" l. grey qtz. schist fragments, biotite, orange felsic material in qtz. qtz @25°.	2887		28.0	30.0	2.0			0.03	
		36.9 3.0" l. grey qtz. mixture of garnet, calc silicate, felsic material in qtz. qtz @25° irregular infilling schist.	3888		37.0	38.0	1.0			0.01	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 9 SHEET NO. 2 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS		ASSAYS OZ TON	ASSAYS OZ TON
44.5	52.0	brecciated siliceous greywacke, brecciation moderate. fragments .2-1.0" separated by qtz and calcite stringers.	2889		49.5	51.0	1.5			0.01	
		49.9 11.0" milky qtz to thin lenses of schist. biotite, orange rust staining fractures in qtz. qtz @35°.									
52.0	84.4	dark grey siliceous greywacke.									
		53.5-54.8 fractured ground core.									
		68.3 calc silicate, irregularly infilling. gwke.d. green, chlorite filling tight fractures (containing sericite). gwke chloritized 68.3-68.9'.									
		69.0 d. grey qtz lense.	2890		68.5	69.5	1.0			tr.	
		69.5 foliation of siliceous gwke @18°.									
		76.4-79.5' brecciated chloritized siliceous greywacke.									
		76.10" irregular qtz. garnet, biotite.	2891		76.5	77.5	1.0			tr.	
		79.5-80.5 strong fracturing @25°. ¼l. grey qtz @25°.	2892		79.5	80.5	1.0			tr.	
		80.5 fault gouge @25°.									
		83.5 ¼" qtz (light grey) biotite. qtz @28°.									
84.4	84.6	semicitic felsic qtz pegmatite, sericite in tight fractures. contacts @31° purple staining of broken core @ upper contact.	2893		83.0	86.0	3.0			0.01	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 9 SHEET NO. 3 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		85.2 2/16" milky qtz. scattered garnet.	2894		89.0	91.0	2.0			0.01	
87.9	89.5	light green chloritic sericite schist.									
89.5	90.10	milky qtz interbedded to sericite schist. pyrite stringers @ qtz-schist contacts. schist chloritized, foliated @40°, weakly fractured, soft. schist between 90.0-90.8, (upper/lower contact irregular @42°).									
90.10	91.8	light green chloritized sericite schist.	2895		91.2	95.2	3.0			tr.	
		92.1 1/16" d. grey qtz @28°.									
		93.3 2/16" d. grey qtz.									
		94.8 .5" d. grey qtz specks of arsenopyr. qtz @30°.									
91.8	149.5	siliceous gwke. foliated @45°.									
		96.8 d. grey qtz. med-c. gr. arsenopyr (spotty) qtz @28°.	2896		96.0	98.5	2.5			tr.	
		98.0 1.0" l. grey qtz. small f. grain specks of pyrite, galena @ lower contact.									
		100.6-104.2 strong fracturing of siliceous wacke @10°.									
		110.8 d. grey qtz (¼"). biotite. qtz @33°.	2897		110.5	111.5	1.0			tr.	
		115.5 2/16" l. grey qtz, biotite. qtz @22°.									
116.5	116.7	2.0" sericite felsic qtz pegmatite.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 9 SHEET NO. 4 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		122.2 2/16" l. grey qtz. specks of biotite. qtz @50° series of l. grey qtz. 121.9-122.9'.	2898		121.5	124.5	3.0			tr.	
116.7	166.8	l. grey gwke ~~w~~ interbedded schist. greywacke siliceous.									
		124.2 ¼" l. grey qtz. c. g.r biotite in qtz.									
		126.2 irregular blebs of qtz containing biotite, garnet infilling c. rock.	2900		125.8	126.8	1.0			0.01	
		127.7-128.0 broken up core. rock leached.									
		129.0 1.0" calc silicate @50°.									
		131.5 2.0" calc silicate @50°.									
		133.0 weak foliation @50° in wacke.									
		134.1-134.5 broken up core.									
		137.2 d. grey qtz, specks of pyrite, some brecciation of gwke. qtz @45°.	2899		136.5	137.5	1.0			0.01	
		137.3 garnet biotite schist.									
		142.2 med. gr. flakes of galena on core fracture.									
		142.4 d. grey qtz, 0.5", specks of arsenopyr, biotite qtz @40°.	3011		141.8	144.8	3.0			tr.	
		143.5 .25" d. grey qtz.specks of arsenopyr.									
		2/16" d. grey qtz. speck of arsenopyr @ wall rock contact.qtz @40°.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 9 SHEET NO. 5 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		145.2 locally brecciated gwke. specks arsenopyr, pyrite. 145.4 2/16" milky qtz.fragments in qtz (2/16). qtz infilling fracture irregularly	3012		145.0	146.0	1.0			tr.	
		147.0 chloritic green calc silicate. flake of galena coating broken core. calcite stringers. silicate @30°. 152.3 irregular 2/16" qtz stringers. wacke chloritized immed. to qtz specks of pyrite, chloritic blebs in qtz.	3046		152.0	154.0	2.0			0.02	
		156.0 1.0" milky qtz biotite, sericite, qtz @30° 162.5 foliation of siliceous gwke @20°. 162.0-167.9 strong fracturing of core @10°. galena, pyrite coating fracture surfaces.	3013		155.0	156.5	1.5			tr.	
166.8	169.0	165.5 1.0" grey qtz. specks of pyrite, sericite qtz @35°. l. grey qtzite. c. g.r arsenopyr. spotty upper and lower contacts gradational.									
169.0	185.0	interbedded gwke and schist. locally chloritic. 169.3 1.0" milky qtz.short stringers of pyrite @ contacts. biotite.qtz @45°. 169.7 2.0" milky qtz. chloritic gwke fragments, garnets, biotite. qtz fracture irregular.	3014		169.0	173.0	4.0"			0.01	

LANGHEDGES – TORONTO – 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 9 SHEET NO. 6 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS		ASSAYS OZ TON	ASSAYS OZ TON	
		170.6 2.0" l. grey qtz. qtz @47°.										
		171.0 2.0" milky qtz qtz @40°. schist well foliated between veins @40°. pyrite and pyrrhotite in blebs. c. g.r arsenopyr scattered in schist.										
		172.5 ¼ d. grey qtz. short fine lense of pyrite, arsenopyr in wall rock. f. gr. blebs of pyrrhotite. ,qtz @35°.										
		174.5 1/16" d. grey qtz. specks of pyrite.	3015		174.0	176.0	2.0			tr.		
		175.9 2.0" milky qtz. biotite. qtz. @40°. pyrite stringer, arsenopyr in local schist.										
		178.5 d. grey 2/16" qtz . qtz @40°. speck of arsenopyr.	3016		178.0	179.0	1.0			tr.		
		180.3 2/16" milky qtz. qtz @35°.	3017		179.9	180.9	1.0			tr.		
		183.9-185.0 calc silicate to siliceous gwke. galena spotty on broken core surface.										
185.0	196.5	weakly brecciated siliceous greywacke. specks pyrite, arsenopyr pyrite stringers.										
196.5	229.8	d. grey siliceous gwke. poorly to moderately foliated @30°. pyrite stringer, specks of arsenopyr. local weak brecciation.										
		212.0 3.0" calc silicate.										

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 9 SHEET NO. 7 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS .	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		217.10' milky qtz. short thin lenses of pyrite @ wall rock.qtz @55°. qtz offset to right by 25".	3018		217.5	218.5	1.0			tr. 0.01	
		222.1 1/16" d. grey qtz. thin short lenses of f. gr. pyrite. qtz @45°.	3019		221.5	224.0	2.5			0.01	
		222.6 2/16" d. grey qtz. specks of pyrite. thin f. grain chalcopy.									
		223.8 .25" l. grey qtz. biotite. qtz @23°.									
		224.9 bronze matallic smear on core surface	3020		224.5	225.5	1.0			0.01	
		227.5 .25" l. grey qtz. chloritic fragments, specks of pyrite qtz @30°	3047		227.0	228.0	1.0			tr.	
		224.9 foliation of siliceous gwke @40°									
		229.5 5/16" d. grey qtz. qtz. @45°.									
229.8	230.4	sericite (felsic) qtz pegmatite .1/16" pyrite stringer infilling pegmatite. upper @45°, lower @60°.									
		231.0 .25 d. grey qtz. pyrite stringer. biotite in qtz.									
		231.7 2/16" d. grey qtz. specks of arsenopyr.qtz @40°.	3021		229.0	232.0	3.0			0.10	
		233.3 2/16" d. grey qtz. speck chalcopyrite, pyrite in qtz.	3022		233.5	234.5	1.0			0.22	
		234.0 3.0" l. grey qtz. biotite (c. g.r flakes) specks, thin short.stringers of arsenopyr, pyrite.gwke fragments (garnetiferous) in qtz.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 9 SHEET NO. 8 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS		ASSAYS OZ TON	ASSAYS OZ TON
		236.5 2/16" d. grey qtz. small fragments of gwke in qtz. qtz fracture @35°.	3023		236.0	237.0	1.0			Tr	
230.4	268.5	qtz wacke. to weakly brecciated qtz wall. poorly foliated @40°. wacke brecciated by qtz stringers. wall rock chloritized, adjacent to stringers, veins.									
		240.0 .25" milky qtz. biotite, small wacke fragments, garnets. qtz @37°	3024		239.5	340.5	1.0			0.04	
		244.0 0.5" d. grey qtz, specks arsenopyr, biotite. qtz @40°.	3025		243.5	244.5	1.0			Tr	
		246.3 c. gr. of galena on broken core surfaces.									
		247.8 .5" d. grey qtz, specks of pyrite, biotite lenses. qtz fracture @35°.	3026		247.2	249.5	2.4			0.02	
		249.0 1/16" d. grey qtz. biotite, specks of pyrite. qtz. @30°.									
		251.2 0.5" d. grey qtz. biotite, specks of pyrite. qtz filled fracture @35°.	3027		250.5	251.5	1.0			0.08	
		255.8 0.5" d. grey qtz. specks of chalcopyrite, arsenopyrite in qtz. qtz. fracture @40°.	3028		255.2	256.2	1.0			0.01	
		256.2-260.0 strong fracturing at core @30°.									
		257.0 irregular 1.0" calc silicate infilling qtz wacke.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 9 SHEET NO. 9 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS .	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		258.5 1.0" sreecitic felso qtz. pegmatite.									
		259.0 0.5" serecitic felso qtz. pegmatite.	3029		259.0	263.0	4.0			Tr	
		258.0-259.0 ground core. small rounded n pieces of core.									
		260.0 .25" milky qtz. biotite. qtz. @25°.									
		260.5 .25" d. grey qtz. qtz. @30°.									
		261.0 0.5 d. grey qtz. specks of pyrite @ wall rock contact.									
		biotite. short stringers of calcite infilling qtz. qtz. @30°.									
		261.3 0.5" l. grey qtz. specks of biotite. qtz. @30°.									
		212.4 1/16" d. grey qtz. qtz. @30°.									
		269.2 1/16" d. grey qtz. qtz @30°.	3048		269.0	270.0	1.0			Tr	
268.5	286.6	brecciated qtz wacke ~~to~~ narrow sections sericite schist.									
		brecciation weak to moderate. numerous qtz. veins 3.0-4.0"									
		intersecting breccia. specks of pyrite, chalcopyrite in qtz, and									
		schist (wall rock). wall rock is schistose, crumbly, ~~in core~~,									
		sericitic, and foliation is ~~contacted~~ irregular. schist contains c. gr.									
		arsenopyr.									
		273.0 3.0" milky qtz. fragments of schist, biotite. qtz. @40°.	3030		272.5	273.5	1.0			0.01	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 9 SHEET NO. 10 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS		ASSAYS OZ TON	ASSAYS OZ TON
		272.10" fault gouge @30°.									
		276.5 fault gouge @40°									
		277.5 fault gouge @40°. l. grey qtz irregularly infilling wacke.									
		278.5 4.0" milky qtz. biotite, chloritic wacke, specks of pyrite. qtz. @30°. c. gr. arsenopyr in wall rock.	3031		277.0	280.5	3.5			0.01	
		279.0 3.0" milky qtz. biotite, chloritic wacke, qtz. @40°.									
		279.8 2.0" milky qtz. biotite qtz. @40°									
		280.7 4.0" l. grey qtz. biotite, fragments of wacke, pyrite stringers. qtz. @42°.	3032		280.5	283.0	2.5			Tr	
		281.8 3.0" calc silicate, silicate @40°.									
		282.4 0.5" milky qtz. thin stringers of pyrite near wall rock. biotite. qtz infilling irregularly @35°.									
		283.4 1.5" calc silicate.									
		284.9 irregularly milky qtz. infilling wacke. biotite.	3033		284.5	286.5	2.0			Tr	
		286.0 irregularly milky qtz, infilling wacke. biotite.									
		286.5 .25" l. grey qtz. biotite, pyrite coating broken qtz. fracture. fracture@35°.	3034		286.5	289.0	2.5'			Tr	

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 9 SHEET NO. 11 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS		ASSAYS OZ TON	ASSAYS OZ TON
		286.6 3.0" calc silicate, silicate @30°.									
		287.9 .5" milky qtz. biotite, specks of pyrite qtz. filled fracture @40°.									
286.6	293.0	l. green brown chloritized wacke. small lenses of d. green material to specks of pyrite. wacke weakly foliated 37°. med. gr. arsenopyr-scattered. numerous qtz veins, stringers. upper contact at wacke @40°. lower contact @28°.									
293.0	327.0	l. grey siliceous wacke to narrow sections of sericite schist (10%). extensive qtz veining over 293.0-322.4 qtz. veins vary in thickness 2/16" - 5.0". f. med gr. arsenopyr. scattered over section. foliated of wacke @35°, @312.0'.									
		290.4 5.0" milky qtz to fragments of chloritic fragments. specks of pyrite. qtz. @40°. (irregularly).	3035		290.0	293.0	3.0'			Tr	
		291.5 2/16" milky qtz. med gr. arsenopyr qtz. @30°.									
		291.6 2.0" milky qtz.									
		292.7 5.0" milky qtz. green argillitic clay infilling qtz. fractures. pyrite stringers @ wall rock contact. qtz. @35°.	3036		293.0	295.0	2.0			0.01	
		293.9 .25 l. grey qtz. biotite, chlorite, f. gr. arsenopyr.. qtz infilling wacke irregularly.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Country Harbour

HOLE NO. COHA 9 SHEET NO. 12 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS oz ton	ASSAYS oz ton
		294.1 1.0" milky qtz. biotite, c. gr. arsenopyr specks of pyrite @40°.							
		296.9 2/16" d. grey qtz. specks of pyrite. qtz. @40°.	3038		300.0	302.5	2.5		Tr
		297.9 .25" l. grey qtz. biotite.qtz. @40°.							
		300.6 1.0" milky qtz. biotite.qtz. @35°.							
		301.2 1.0" milky qtz. biotite.qtz. @35°.							
		302.2 0.5 milky qtz. specks arsenopyr, biotite.@35°(qtz)							
		303.1 2.0" calc silicate, silicate @40°.	3039		303.0	306.5	3.5		0.01
		304.0 1.0" l. grey qtz. biotite, c. gr.ain of arsenopyr in qtz. qtz. @25°.							
		304.8 1.0" l. grey qtz. small bleb of pyrrhotite, arsenopyr @ wall rock. qtz. @40°.							
		305.8 3.0" milky qtz. specks of f. gr. arsenopyr. massive f. gr. pyrite blebs in to chloritic wacke. qtz. @40°.							
		306.1 .25" d. grey qtz. specks. of f. gr. pyrite, arsenopyr qtz. @40°.	3040		306.5	310.0	3.5		0.02
		307.0 2.0" l. grey qtz. irregularly infilling qtz. thin stringers of pyrite, med. gr. arsenopyr, biotite.							

DIAMOND DRILL RECORD

NAME OF PROPERTY Co[illegible]ry Harbpur

HOLE NO. COHA 9 SHEET NO. 13 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		307.5 3.0" l. grey qtz. irregular infilling wacke. chloritic green coloration to qtz, patching green. specks of pyrite.									
		308.0-309.5 milky ~~white~~ qtz. containing weakly chloritized fragments of wacke. (2/16" - 4.0") specks of f. gr. arsenopyr, pyrite, blebs of pyrite assoc. ~~to~~ chloritic wacke. biotite. c. g.r arsenopyr. mineraliz. siliceous wacke. wacke foliation @40° upper , lower contacts for wacke @40°.	3041		310.0	313.5	3.5			Tr	
		310.0 4.0" l. grey qtz. specks of pyrite, arsenopyr qtz. @30°.									
		310.5 .25" d. grey qtz. specks of biotite.									
		310.8 1.0" l. grey qtz. biotite, specks of pyrite.									
		311.4 4.0" l. grey qtz. biotite.									
		312.4 10.0" milky qtz. chloritic lenses of wacke ~~to~~ specks of pyrite contained in qtz. qtz @40°.									
		313.8 2/16" d. grey qtz. biotite, thin lense of wacke. pyrite qtz. @40°.	3049		313.5	314.5	1.0			6.01	
		314.4 10.0" milky qtz, fragments of wacke, pyrite, upper contact 40°, lower 25°.									
		315.5 4.0" calc silicate, irregularly infilling wacke.									

DIAMOND DRILL RECORD

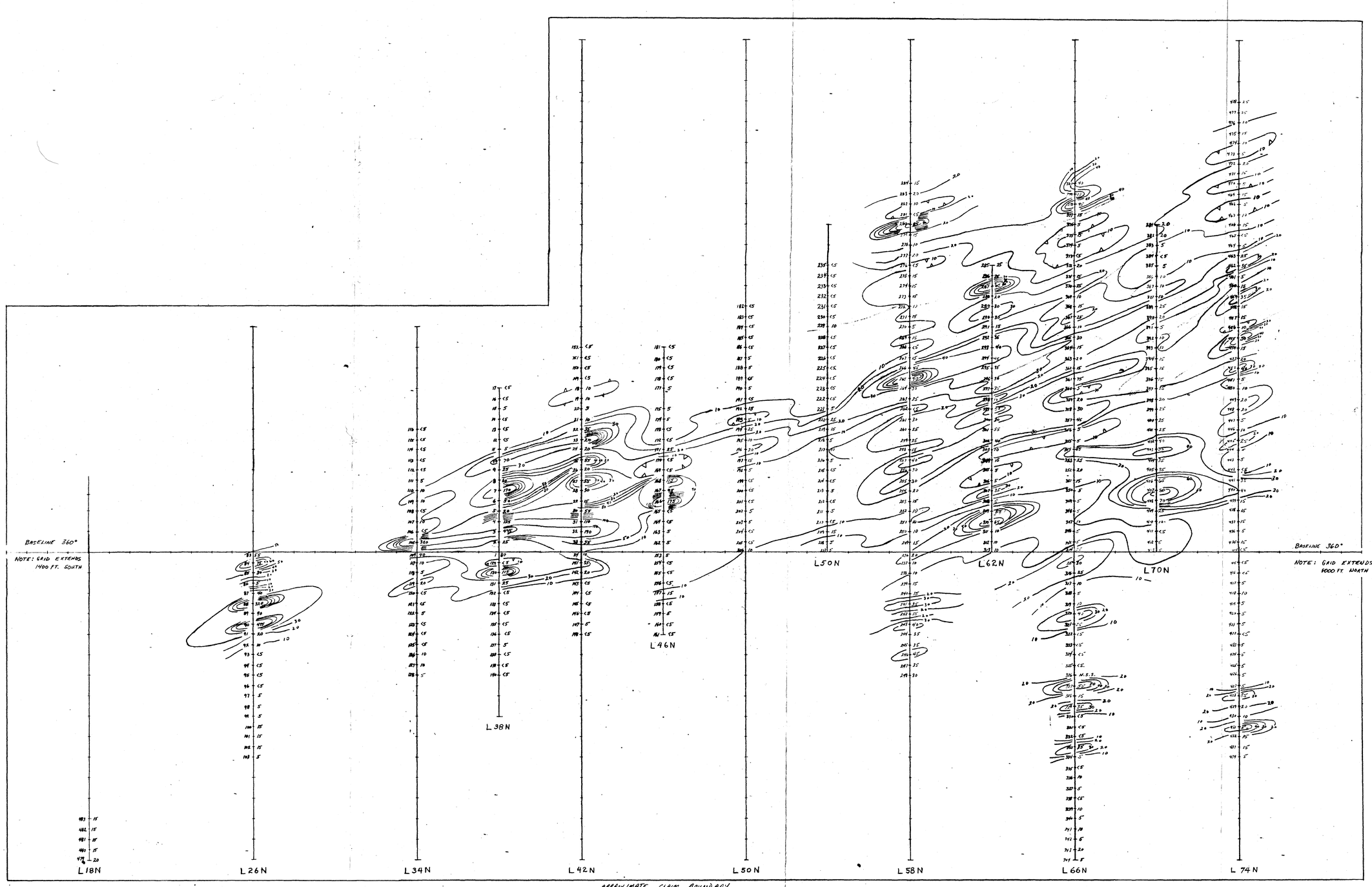
NAME OF PROPERTY: Country Harbour

HOLE NO. COHA 9 SHEET NO. 14 of 14

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE P. SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS .	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		315.10" 1.0" milky qtz. thin lenses of biotite. qtz. @30°.									
		316.0 0.5" l. grey qtz. biotite qtz. @33°.									
		317.0 0.5" d. grey qtz. biotite specks arsenopyr qtz. @25°.	3042		316.5	319.0	2.5			0.03	
		318.1 2/16" d. grey qtz. fault gouge @30°.									
		318.1-327.0 strong fracturing @30°-40°.									
		319.3 2/16" d. grey qtz. biotite. qtz. @30°.	3043		319.0	322.0	3.0			0.02	
		320.5 milky qtz to green chloritic coloration. small massive blebs of pyrite. qtz. irregularly infilling wacke.									
		320.9 .25" d. grey qtz. specks pyrite, biotite qtz. @35°.	3044		322.0	326.0	4.0			Tr	
		323.0 2/16" f. grey qtz. thin massive pyrite lenses. qtz. @30°.									
		321.0 foliation of wacke @30°.									
		324.5 fault gouge @35°.									
		324.5 l. grey qtz. thin f. gr. lenses of pyrite in qtz @ wall rock. biotite.qtz. fracture @30°.									
		327.0 End of Hole.									

Terrence J. Kelly March 23 '81

NOTE: The dips of the qtz veins, fracturing, foliation were read with core axis being 0° on the compass.



T.N.

PARAGON EXPLORATIONS LTD.

COUNTRY HARBOUR PROPERTY

EXPLORATION LICENCE # 1535

GEOCHEM — HUMUS SAMPLING

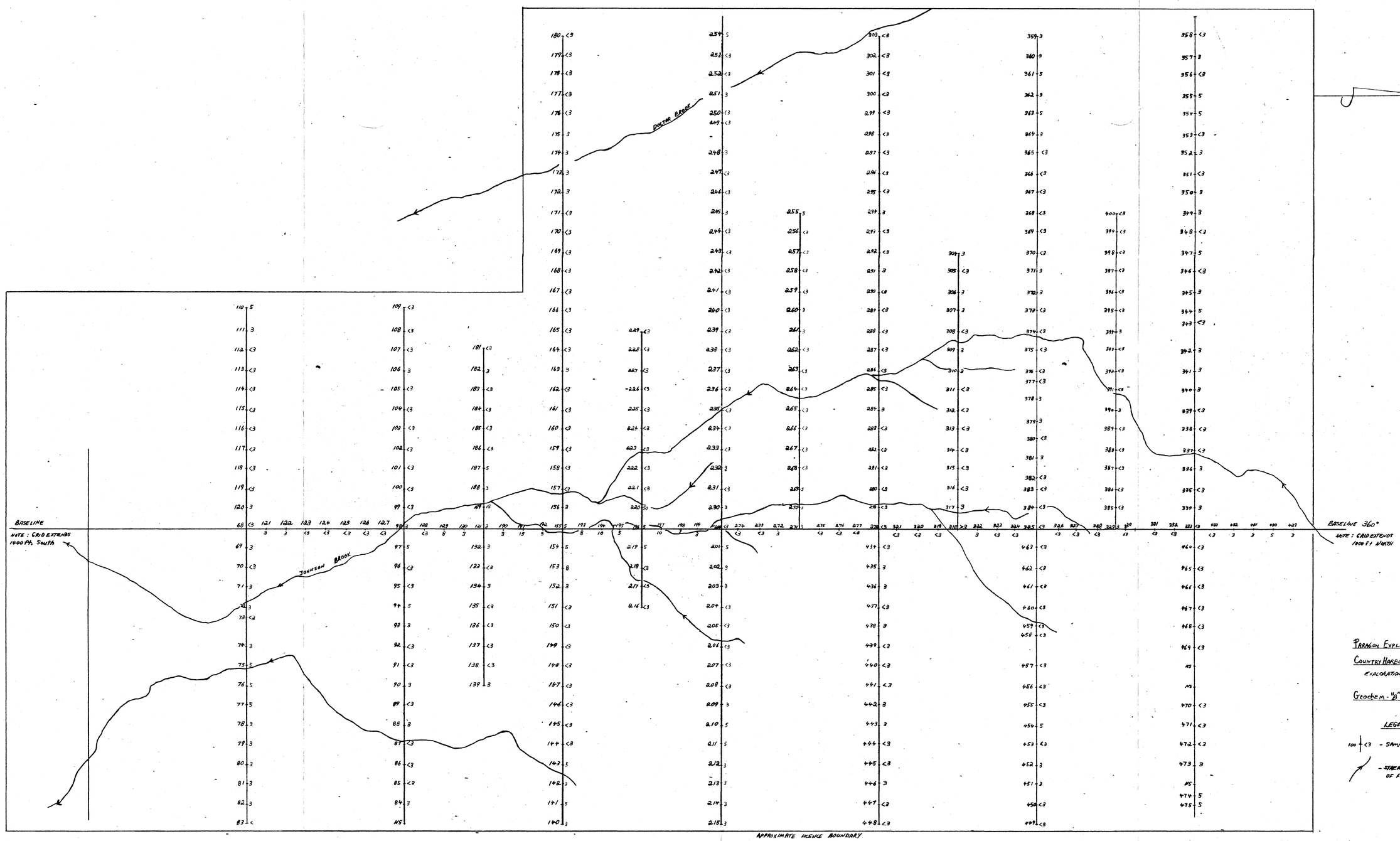
LEGEND

100 | <1 — SAMPLE NUMBER, Au ppb

SCALE: 1 INCH = 200 FEET.

434153

MAP # 1



PARAGON EXPLORATIONS LIMITED

COUNTRY HARBOUR PROPERTY

EXPLORATION LICENCE # 1535.

Geochem - "B" HORIZON Sn

LEGEND

100 | <3 - SAMPLE NUMBER | Sn ppm

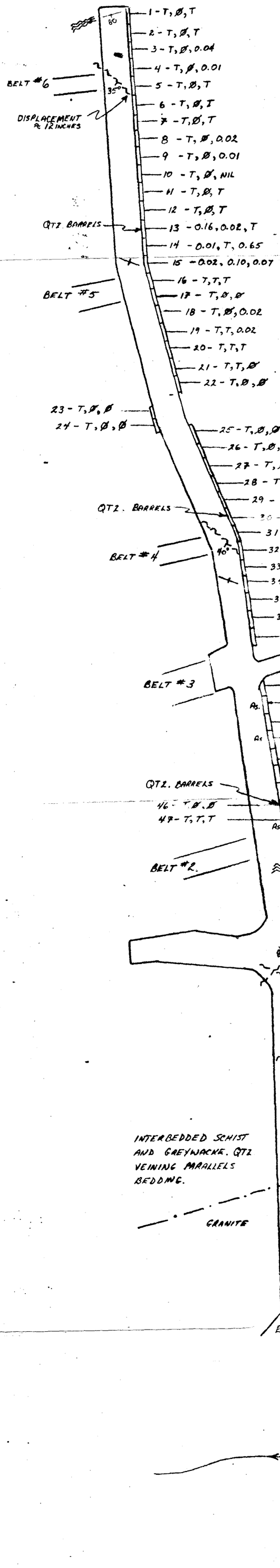
- STREAM WITH DIRECTION OF FLOW

Scale 1 inch = 200 FEET

434153

MAP #2


PARAGON EXPLORATIONS LIMITED
COUNTRY HARBOUR PROPERTY
EXPLORATION LICENCE #1535
GEOCHEM - LEAF SAMPLES
LEGEND
Au ppb / As ppm | W ppm
STREAM WITH DIRECTION OF FLOW
SCALE: 1 INCH = 200 FEET
BASELINE
BASELINE 300°
NOTE: GRID EXTENDS 1000 ft NORTH
NOTE: GRID EXTENDS 1400 ft SOUTH
DOCTOR BROOK
JOHNSON BROOK
APPROXIMATE LICENCE BOUNDARY
T.N.
L 18N
L 26N
L 34N
L 42N
L 50N
L 58N
L 66N
L 74N
434153
MAP #3



PARAGON EXPLORATIONS LTD.

COUNTRY HARBOUR PROPERTY

BLAIR ADIT

CHIP SAMPLING

LEGEND

1 - 0.01, 0.02, 0.03	SAMPLING LOCATION NUMBER FOLLOWED BY ASSAY VALUES IN Au. Oz./TON FOR CHIP SAMPLE (5FT. LENGTH), SAMPLE REASSAYED, QTZ. VEIN SAMPLE.
	NOTE: ROCK CHIP SAMPLES - 8 to 10 lbs. FROM A SAMPLE LENGTH OF 5 FEET. QTZ. VEIN SAMPLES - 5 lbs. PREDOMINANTLY QTZ. CHIPS TAKEN OVER A LENGTH OF 5 FEET.
BELT #2	MINERALIZED ZONE INFERRED FROM PREVIOUS (CIRCA. 1938) MINING DATA.
T	TRACE ASSAY VALUE.
Ø	NO SAMPLE TAKEN.
As	ARSENOPYRITE.
80°	OBSERVED FAULT WITH INCLINED DIP
	SHEAR
	5 FT. SAMPLE LENGTH.
	BEDDING; VERTICAL, INCLINED
	GEOLICAL CONTACT; OBSERVED, ASSUMED.

SCALE: 1 INCH = 20 FEET.

434153

MAP #4

PARAGON EXPLORATIONS LIMITED
COUNTRY HARBOUR PROPERTY
EXPLORATION LICENSE # 1535
GEOLOGY.
NOTE: GRID EXTENDS 1000 FT. NORTH.
BASELINE NOTE: GRID EXTENDS 1400 FT. SOUTH
BASELINE 360°
T.N.
TO CROSS ROADS COUNTRY HARBOUR
TO GUYSBORO
POND
DOCTOR BROOK
JOHNSON BROOK
HALIFAX FORMATION
GOLDENVILLE FORMATION
(CONTACT INFERRED FROM AEROMAGNETIC DATA)
APPROXIMATE LICENCE BOUNDARY
L18N
L26N
L34N
L42N
L50N
L58N
L66N
L74N
LEGEND
1 SCHIST a) SOFT, MICACEOUS (BIOTITE AND SERICITE) WITH GARNET.
b) SILICEOUS AND GENERALLY MORE MASSIVE. DECREASED MICA AND GARNET CONTENT.
2 QUARTZITE - GREY TO BLACK, FINE-GRAINED, WITH OCCASSIONAL GARNET. (SILICEOUS GREYWACKE)
3 GRANITE a) PINK, MEDIUM-GRAINED WITH TWO MICAS (BIOTITE AND MUSCOVITE).
b) WHITE MEDIUM TO COURSE GRAINED WITH MINOR GARNET (MUSCOVITE ONLY)
4 PEGMATITE (GRANITIC)
Q QUARTZ VEIN
Ar ARSENOPYRITE
Py PYRITE
OUTCROP BOUNDARY
GEOLOGICAL CONTACT: OBSERVED, ASSUMED
FAULT: OBSERVED, ASSUMED.
WASTE DUMP
SHAFT.
BEDDING: VERTICAL, INCLINED.
SCHISTOSITY: VERTICAL, INCLINED
MINERAL LINEATION (GRANITE)
X FLOAT, BOULDER
TRENCH
RIVER AND DIRECTION OF FLOW.
TRAIL
VEHICULAR ROAD
G1000 CROWN SURVEY LINE WITH SURVEY PIN AND NUMBER.
R20-0.01 CHIP SAMPLE NUMBER WITH ASSAY VALUE IN Au. OZ./TON
COHA1 DRILL HOLE LOCATION, DESIGNATION, AZIMUTH AND SURFACE PROJECTION.
SCALE: 1 INCH = 200 FEET.
434153
MAP #5

PARAGON EXPLORATIONS LTD.

COUNTY HARBOUR CLAIM GROUP, N.S.

HELICOPTER-BORNE MAGNETOMETER SURVEY

SGL

Flown and compiled by
SANDER GEOPHYSICS LTD., KANATA, ONTARIO

SCALE 1:10000 **MAY, 1980**

AEROMAGNETIC MAP

LEGEND

ISOMAGNETIC LINES (absolute total field)

500 gammas .....
100 gammas .....
20 gammas .....

Magnetic depression .....

Flight line and fiducials ..... — L 12 345

(1 gamma = 1 nanotesla in SI units)

434153

EXPLORATION LICENSE AREA