

DU PONT CANADA INC.

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL  
AND DIAMOND DRILL REPORT

ON THE BILL CLAIMS

LIARD MINING DIVISION

LAT. 57°45'N, LONG. 127°45'W

NTS: 94-E-13

OWNER OF CLAIMS: Cominco Ltd. and Du Pont Canada Inc.

OPERATOR: Du Pont Canada Inc.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

12,559

Author: J. M. Kowalchuk

Date Submitted: 1984 October 4

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## INTRODUCTION

The main thrust of the 1984 program consisted of diamond drilling supported by detailed mapping of geological structures and alteration. A total of 1848.4 metres were drilled in nine holes located primarily in the region of 1983 drilling.

Several holes in the soil sample coverage were filled by 1984 sampling. Areas with anomalous stream geochemistry were also better defined by small soil grids and contour soil sampling. Student employees took 341 soil samples.

Evaluation of 1983 drill core as well as core from the first hole of 1984 determined that East-West structures might be significant in the location of mineralization. A VLF-EM survey performed in 1983 was run along E-W lines and would not have picked up any E-W structures so 125 line km of VLF-EM were run along N-S lines to try to see these features.

## LOCATION AND ACCESS (Fig. 1, Fig. 2)

The BILL group of claims are located 135 km southeast of Dease Lake, British Columbia within the Ligrd Mining Division, NTS 94 E/13 (Lat. 57° 45'N, Long. 127° 45'W).

Access to the property is by helicopter from either the Sturdee Valley airstrip which lies 75 km to the southeast or the Kutcho airstrip which lies 70 km to the north. The Highland Post airstrip, 28 km to the southwest would be an ideal access point, however, an agreement over the use of the strip between Du Pont and the outfitter who controls the strip was not possible to obtain.

Helicopter support on the property was provided by ALC Airlift Corp. utilizing a Hughes 500D helicopter.

All supplies were acquired from Smithers and were flown into Sturdee strip once a week by either a Beach 18 aircraft or a Navajo, both provided by Central Mountain Air Services of Smithers.

## PHYSIOGRAPHY AND CLIMATE

The property is located in the Stikine Ranges with elevations ranging from 1500 to 2000 metres above sea level.

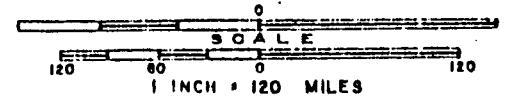
Tree line is at 1500 metres and most of the property is above this level within an alpine meadow. The camp was located just at tree line and was surrounded by willows, juniper and stunted fir. Above tree line, an alpine meadow vegetation of grasses, stunted birch, willow and fir existed.

138° 136° 134° 132° 130° 128° 126° 124° 122° 120° 118° 116° 114° 112°

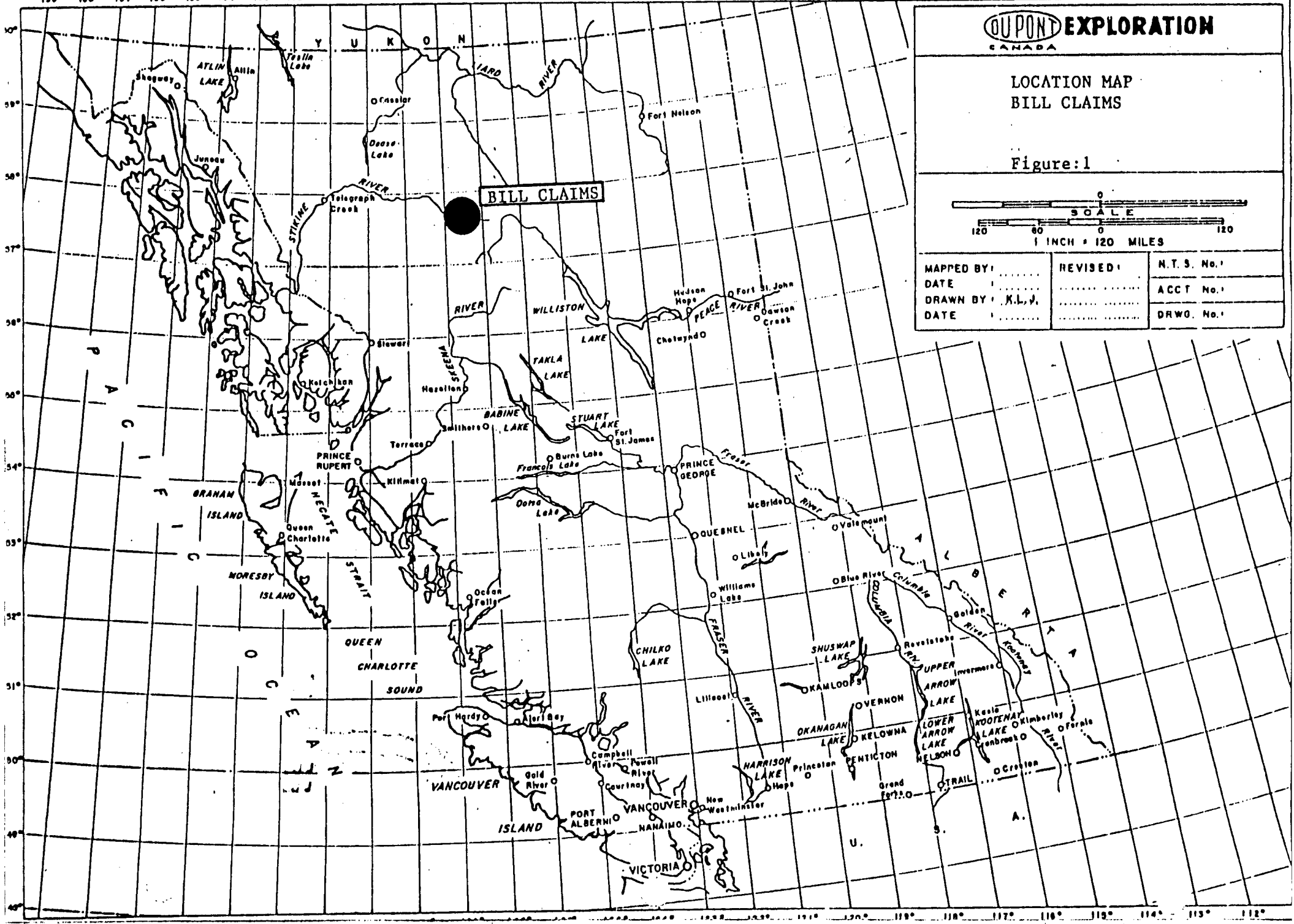


LOCATION MAP  
BILL CLAIMS

Figure:1



MAPPED BY: .....	REVISED: .....	N.T.S. No.:
DATE .....	.....	ACCT No.:
DRAWN BY: K.L.V.	.....	DRWG. No.:
DATE .....	.....	.....



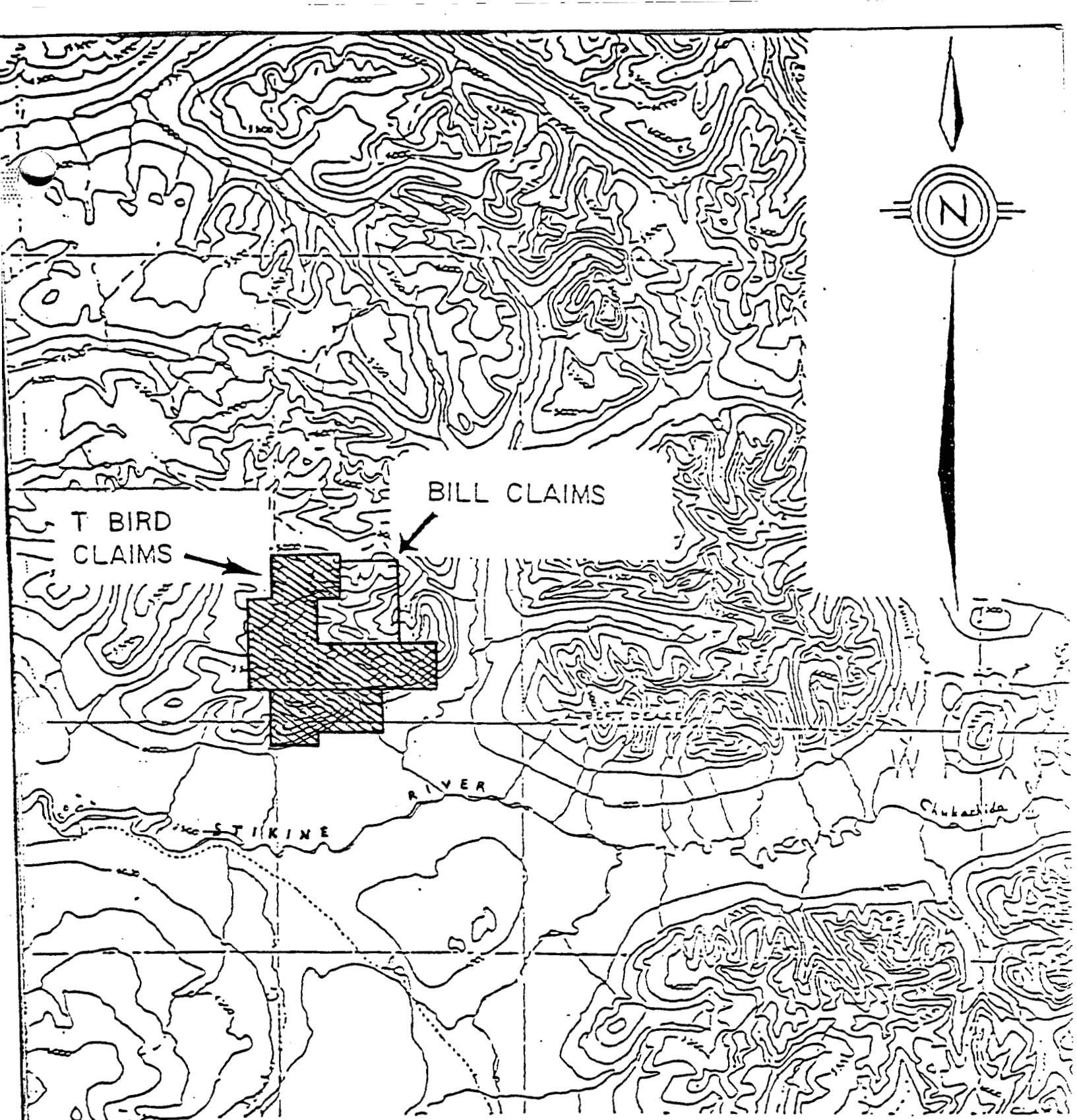
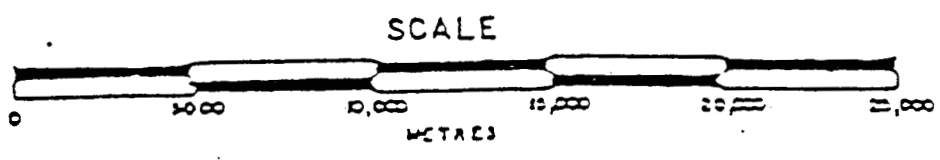


Figure: 2



NTS  
94.E

TOODOGGONE RIVER

OCTOBER 1983

LOCATION MAP  
BILL CLAIMS, T BIRD CLAIMS

Weather conditions are extreme on the property with high precipitation and cold weather the norm. The region is a high snowfall area and as such makes it difficult to do work before July 1 while snow begins to accumulate in late August leaving a very short effective field season.

#### PROPERTY DEFINITION

The BILL and T-BIRD claims consist of 11 claims totalling 183 units. See Figure 3.

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record No.</u>
BILL 1	15	1199
BILL 2	12	1200
BILL 3	16	1201
T-BIRD 1	20	1891
T-BIRD 2	20	1892
T-BIRD 3	20	1893
T-BIRD 4	20	1894
T-BIRD 5	12	1895
T-BIRD 6	8	1896
T-BIRD 7	20	2914
T-BIRD 8	20	2915

#### PROPERTY HISTORY

In 1976 Cominco Ltd. conducted a reconnaissance program for volcanogenic massive sulphides in the Chuckachida River area. Anomalous values obtained from the stream sediment samples when analyzed for precious metals in 1978, led to the staking of the BILL claims in March 1980 and the T-BIRD claims in April 1981.

During the 1981 field season, Cominco completed an extensive program. A grid was surveyed in with a transit and picketed every 100 metres.

Detailed geological mapping on a scale of 1:5000 was conducted over most of the BILL 2 and 3 claims. In addition, extensive soil and rock samples were obtained from the grid area. Six trenches were excavated.

Geochemistry defined several anomalous zones of arsenic and gold.

Limited VLF-electromagnetic and magnetic surveys were unsuccessful in defining any reliable target areas.

The 1982 program, operated by Du Pont, consisted of detailed soil geochemistry, trenching and sampling, VLF electromagnetic and magnetic surveys as well as a test induced polarization survey.

Geochemical results reproduced the exceptionally high gold and arsenic soil anomalies. The induced polarization failed to delineate any areas of interest. The electromagnetic survey produced a well-defined conductor trending in a north to north-west direction.

The 1983 program located two well defined VLF-EM conductors, which trended in a north-south direction. (These conductors lie in the region of high gold geochemistry.) Diamond drilling in the region of these conductors intersected some interesting sections of gold mineralization.

#### PERSONNEL

J. Kowalchuk	Geologist	1984 July 4-August 15
I. Patterson	Geologist	1984 July 6-August 15
W. Wolfe	Geol. Assistant	1984 July 20-August 14
G. McKay	Geol. Assistant	1984 July 6 - July 15
P. Richardson	Geol. Assistant	1984 July 6 - July 15
R. Mahlow	Core Splitter	1984 July 4 - August 15

#### GEOLOGY

##### Regional Geology

The BILL claims lie on the eastern edge of the Intermontaine Belt near the fault boundary with rocks of the Omineca Crystalline Belt. The claims are underlain by a sequence of low grade metamorphosed volcanic and sedimentary rocks. Dolomitic rocks found in the middle of the sequence containing conodonts and crinoids suggest a Mississippian age for these rocks (Thorstad 1980).

These metamorphic rocks are intruded by Jurassic quartz monzonite and diorite to the north and east of the property. To the south of the claims, Lower Jurassic Toodoggone volcanic rocks and the Upper Triassic Takla Formation volcanic rocks dominate.

Small zones of Takla Formation and Hazelton Formation (Lower Jurassic) crop out five kilometres west of the claims.

##### Property Geology (Dwg.B84-1)

A more detailed description of the property geology will occur in a report to be written by I.A. Patterson. This report will deal with gross petrographic features observed in the core with some reference to metamorphism, structure, and mineralization.

The property geology is being described in a significantly different way than it was described in 1983. Instead of referring to a large variety of volcanic rock types, reference will be made to primary mineralogy and metamorphic grade.

The rocks on the property are all highly deformed showing a very strong schistose foliation which obliterates many of the original volcanic or sedimentary textures. These are metamorphic rocks and many of the differences observed in them are metamorphic not igneous.

The basic section observed in drill core is as follows:

- (i) Graphite Schist
- (ii) Marble
- (iii) Chlorite Feldspar Schist
- (iv) Chlorite Schist
- (v) Chlorite Schist (numerous quartz segregations)
- (vi) Spotted Chlorite Schist
- (vii) Calcareous Chlorite Schist
- (viii) Quartz-Muscovite-Carbonate Schist
- (ix) Basic Dyke

(i) Graphite Schist

This Quartz-Muscovite-Graphite rock shows a very good schistose texture. In some cases it shows a gneissic banding with quartz being segregated into 2-5 cm bands along foliation planes. This rock was probably a sedimentary rock, possibly a mudstone before undergoing tectonic alteration.

(ii) Marble

This weakly foliated meta limestone rock retains many of its original sedimentary features. In some cases it is interfoliated with graphite schist, however in general it is just a recrystallized and foliated limestone.

(iii) Chlorite-Feldspar Schist

Originally a porphyritic rock, this chlorite schist contains feldspar phenocrysts which are partially segregated and aligned along foliation planes. This is quite a thick unit and is generally quite massive. The unit seldom contains quartz veining which carry arsenopyrite or gold. The rock was probably a crystal tuff or a feldspar porphyry.

(iv) Chlorite Schist or Greenschist

A very well foliated rock of chlorite quartz composition. The schistosity is pervasive, wiping out all former textures or structures. The original rock was probably a fine grained basic volcanic rock. The rock does show some late stage jointing which have filled with quartz-carbonate arsenopyrite and gold. Around these narrow veins one often gets 1-5 cm envelopes of quartz-sericite alteration of the chlorite rich rock.

(v) Chlorite Schist (numerous quartz segregations)

This rock is similar to the chlorite schist above except that it contains an extensive segregation of quartz and sometimes carbonate along foliation planes. In outcrop this might look more like a chlorite-quartz gneiss with the segregations being a gneissosity. This rock may have been a slightly more acid volcanic rock (say andesite rather than basalt) and contains significantly more quartz than does the chlorite schist.

(vi) Spotted Chlorite Schist

This rock is again a very schistose greenstone consisting primarily of chlorite. The rock differs from the other greenstones in that it contains varying amounts of chlorite or chloritoid porphyroblasts. The original composition of this rock is probably that of the chlorite schist, however, it probably lay in a different tectonic regime such that the chlorite porphyroblasts were allowed to grow.

(vii) Calcareous Chlorite Schist

This well foliated chlorite quartz rock contains numerous calcite veinlets at varying angles to the core axis as well as numerous narrow (1-2 mm) calcite segregations along foliation planes. Often there is no apparent carbonate alteration related to this member and the calcite may reflect an original slightly calcareous sedimentary rock where the calcite segregated into narrow joints, fractures and foliation planes. The rock often contains numerous mineralized quartz veinlets, primarily adjacent to quartz-muscovite schist.

(viii) Quartz-Muscovite-Carbonate Schist

While all of the rocks previously described demonstrate regional metamorphism of fine-grained volcanic and sedimentary rocks, this unit demonstrates a hydrothermal alteration of the previous units. Except for possibly the chlorite-feldspar schist, all of the above greenstones

are reflected texturally in this quartz-sericite altered rock.

The rock is often banded in texture with quartz and carbonate segregations along foliation planes from the muscovite schist, however, in many cases this is just a function of a chlorite schist with numerous segregations becoming altered.

The carbonate in this unit is usually siderite or dolomite and not calcite. Calcite occurs primarily when this rock is the hydrothermally altered equivalent of a calcareous chlorite schist.

The unit is often brecciated with breccia fragments cemented by silica, clay, grey-black sulphosalts, and sometimes sulphides. The unit is often extensively veined with quartz-pyrite and arsenopyrite. Pyrite is quite common along foliation planes.

Contacts between this unit and the various greenstones are usually gradual and one can see the slow replacement of chlorite with muscovite.

Along vein boundaries within the greenstone units one often sees envelopes of similar quartz-muscovite-carbonate schist demonstrating its genetic relationship with the hydrothermal veining.

This unit has all the appearances of the quartz-sericite-pyrite zone within a porphyry copper deposit.

The alteration assemblage represents a mesothermal as opposed to an epithermal alteration package related to the gold mineralization.

(ix) Basic Dyke

This unit which forms several dykes up to 5 metres thick throughout the property was intruded later than the regional metamorphic event. It shows no foliation textures at all as it is a slightly porphyritic diabase containing feldspar and hornblende phenocrysts in a fine-grained equigranular groundmass.

Parts of this unit, proximal to mineralized quartz veins is bleached and altered to a sericite-rich rock. The igneous texture is retained.



## Mineralization

A summary of core which ran greater than one gram is shown in Table 1. Study of mineralized core which ran greater than one gram of Au/tonne gave several consistent parameters. These parameters are:

- (1) gold mineralization always occurred within quartz and arsenopyrite + carbonate veins.
- (2) gold mineralization usually occurred at the hanging wall and footwall of a quartz-muscovite schist - often extending into the overlying or underlying greenstones.
- (3) oriented core measurements of quartz-arsenopyrite veins gave quite a consistent 90-110° strike with dips varying from 70°S to 70°N. This information convinced us to change our drilling pattern from east-west to north-south.
- (4) visible gold was found in most samples that ran greater than 10 grams Au/T. The gold lies along the outer part of the quartz vein just inside the outer arsenopyrite-pyrite selvage.

The relationship observed in drill core of gold to quartz-arsenopyrite veins and quartz-muscovite alteration was also observed in outcrop.

## GEOCHEMISTRY

### Introduction

There were several "holes" in the soil geochemical coverage following the 1983 program; so many of these areas were tested with further grid sampling and contour soil sampling. The original Cominco soil grid consisted of lines 100 metres apart. The 1983 program consisted of "fill in" lines in part. This was an attempt to have soil lines 50 metres apart. This program was completed in 1984. A total of 342 stations were soil sampled and analyzed in 1984.

### Sampling Procedure

Soils were obtained from a depth of 15-30 cm including both "B" and "C" horizon representatives. Where the sample location was in talus; talus fines were collected. The samples were placed in numbered Kraft bags and the sample location marked by flagging bearing the sample number. All samples (342 in total) were shipped to and analyzed by CDN Resource Laboratories Ltd in Delta, BC for gold, silver and arsenic.

TABLE 1

## SUMMARY OF MINERALIZED INTERSECTIONS

DDH #	From	To	Au g/T	As %	Mineralization	Rock Type
B84-1	76.4	78.4	1.6	0.35	5% AsPy, 5% Py, visible gold - qtz veins.	Qtz-Musc Schist
B84-2	51.8	53.8	1.0	>1.0	1% AsPy, 4% Py, very rusty fault zone.	Calcareous Chlorite Schist
	88.2	90.2	1.4	0.02	3% Py, tr. AsPy, sheared and broken. Qtz veins.	Qtz-Musc Schist
	137.2	139.2	3.7	0.64	3% AsPy, 3% Py, qtz veins parallel to core axis.	Chlorite Schist
	145.9	148.1	2.6	0.27	Qtz AsPy vein parallel to core axis. 2% AsPy, 4% Py.	Qtz-Musc Schist
	170.2	172.2	3.1	0.56	AsPy, Py in qtz vein.	Qtz-Musc Schist
	179.2	181.2	1.35	0.63	Qtz vein - AsPy, Py	Chlorite Schist
	183.2	185.2	16.5	0.05	Py, AsPy in Qtz vein	Qtz-Musc Schist
	185.2	186.7	2.1	0.08	4% Py, tr. AsPy	Qtz-Musc Schist
	208.4	210.4	1.4	0.61	1.5 cm Qtz vein containing AsPy and Py.	Qtz-Musc Schist
	212.4	214.4	15.6	>1.0	Py + AsPy in qtz vein	Qtz-Musc Schist
B84-3	63.3	65.3	3.15	0.42	Py, AsPy in qtz veins	Chlorite Schist
	65.3	67.3	2.3	0.26	Py, AsPy in qtz veins	Chlorite Schist
	69.3	71.3	2.8	0.32	Py, AsPy in qtz veins	Chlorite Schist
	105.5	107.5	5.5	0.24	Breccia, Py + AsPy + sulphosalt (5%)	Qtz-Musc Schist
	111.5	113.5	2.0	0.54	Py, AsPy, CPy in qtz veins.	Qtz-Musc Schist
	145.0	146.0	1.6	1.0	Numerous qtz veins containing AsPy, Py.	Chlorite Schist
B84-4	11.0	13.0	4.1	>1.0	Broken core. Qtz-AsPy-Py veins.	Qtz-Musc Schist
	13.0	14.0	2.4	0.19	Qtz-AsPy-Py veins	Qtz-Musc Schist
	109.3	110.0	1.4	0.15	Fault zone. Diss. Py, AsPy	Chlorite-Fsp Schist
	173.0	174.5	10.6	>1.0	Visible gold AsPy, Py Qtz veining	Calcareous Chlorite Schist

TABLE 1 (Continued)

DDH #	From	To	Au g/T	As %	Mineralization	Rock Type
B84-5	48.5	50.0	24.7	0.26	Visible gold. Qtz, Py, AsPy veins 55° to core axis.	Calcareous Chlorite Schist
	130.8	132.9	4.05	>0.5	Qtz breccia vein. CPy, AsPy, Py	Qtz vein
	179.9	181.9	1.5	0.5	Py + AsPy in Qtz veins,	Chlorite Schist
	218.2	219.3	3.2	>0.5	AsPy, Py in brecciated Qtz vein.	Chlorite Schist
	231.7	232.3	1.6	>0.5	AsPy, Py in Qtz vein.	Chlorite Schist
	233.7	234.7	3.5	>0.5	AsPy, Py, graphite in 5 cm Qtz vein 20° to core axis.	Chlorite Schist
	268.5	270.5	1.1	0.29	Brecciated qtz containing gray metallic mineral.	Chlorite Schist
B84-6	87.2	87.5	1.75	0.005	Qtz-AsPy vein.	Calcareous Chlorite Schist
	108.0	108.5	4.2	0.46	Qtz-AsPy vein parallel to core axis.	Qtz-Musc Schist
	114.6	116.6	1.3	0.23	Qtz stringers containing AsPy	Calcareous Chlorite Schist
B84-7	31.3	32.3	2.1	0.46	Py and AsPy filling a fracture	Chlorite Schist
	65.8	66.1	21.1	>0.5	Visible gold. 5 cm AsPy filled breccia. 110/60N oriented.	Chlorite-Fsp Schist
	72.8	73.1	1.6	>0.5	5 cm Qtz-AsPy vein, 150°/52°E oriented	Calcareous Chlorite Schist
	91.1	93.1	1.5	>0.5	Qtz-AsPy vein oriented 105/70N	Chlorite Schist
	95.1	97.1	1.6	0.31	Qtz-AsPy vein at 20° to core axis	Chlorite Schist
	102.3	104.3	5.0	0.46	Qtz+AsPy+Py vein 20° to core axis	Chlorite Schist
	111.8	113.3	15.5	>0.50	Qtz veining containing AsPy and visible gold	Chlorite Schist
	127.2	129.0	26.5	0.45	Qtz-AsPy vein oriented 120°/70S.	Chlorite Schist

TABLE 1 (Continued)

DDH #	From	To	Au g/T	As %	Mineralization	Rock Type
B84-8	16.1	18.2	1.9	0.39	Qtz-AsPy vein, 40° to core axis.	Chlorite Schist
	31.9	33.9	24.8	0.30	Visible gold. Extensive Qtz veining. AsPy-Py-much gouge.	Qtz-Musc Schist
	33.9	36.1	2.35	0.235	Same as above. No visible gold.	Same as above.
	48.2	50.6	4.5	0.50	Fault zone. Qtz-AsPy veins.	Chlorite Schist
	63.7	65.7	2.9	0.205	Qtz-AsPy-Py vein. Oriented 110/85 S.	Qtz-Musc Schist
	168.0	169.4	2.2	0.16	Fractured, AsPy along fractures.	Chlorite Schist
B84-9	113.6	115.6	1.9	0.50	Numerous Qtz veins.	Qtz-Musc Schist
	152.6	154.6	2.05	0.5	Fine AsPy veinlets crossing core.	Qtz-Musc Schist

The soils were dried and sieved to -80 mesh, preparatory to analysis. Details regarding analytical procedures are found in Appendix A.

### Results

The sample location map as well as maps showing the analysis results are located in the back pocket as figures B84-8, B84-9, B84-10, B84-11.

"Fill in" sampling generally agreed with Cominco results and would not significantly change the contouring of results. Anomalous samples were considered - those  $>250$  ppb Au. These samples located prospective targets in the cirque to the west at the junction of BILL 2 and BILL 1, along the ridge to the north-east where prospecting located mineralization and two narrow north-south zones in the cirque north of the drilling. This area does not have much outcrop and requires careful prospecting.

### GEOPHYSICS

#### Introduction

A study of mineralized vein directions in 1983 diamond drill holes as well as the first two 1984 holes indicated an east-west orientation to these veins.

We recognize that the north-south orientation of VLF-EM anomalies located in 1983 was as a result of grid line orientation and the location of the transmitting station.

An attempt to locate possible east-west structures which might control this similar trend to the mineralized quartz veins was made using north-south lines and Annapolis as the station. This 1984 program was successful in locating E-W structures.

#### Procedure

The Sabre Model 27 VLF-EM receiver was used to conduct the survey. The survey was run across the existing grid using pickets from the old grid to control the surveying of the north-south lines. Since most of the lines ran up and down a  $30^{\circ}$  slope, attempts were made to correct the horizontal distance to this slope. Data was collected every 25 metres, as any closer spacing just gave noisy data.

A total of 10 line km was covered in the 1984 survey.

The transmitter station was Annapolis.

## Results

The VLF-EM is plotted on Dwg. B84-7 with both the raw data and Fraser filtered data plotted as sections along the lines. The filtered data shows a few moderate EM anomalies running approximately east-west. The two continuous trend of anomalies are occasionally shifted, possibly by cross faulting.

One anomaly which is very strong between lines 1+00E and 3+00W lies at about 5+50 south. This anomaly appears to be shifted to the north as one goes east of 1+00E. The anomaly gets quite weak and spread out to the west.

A broad fairly continuous anomaly follows the ridge, which is fairly continuous if weak. Anomaly follows along 3+00-4+00 south from stations 1+00W to 4+00W. This weak anomaly may be reflecting the set of mineralized shears observed in the diamond drilling.

## DIAMOND DRILLING

A total of 1848 metres of NQ core was drilled at nine separate sites by D. W. Coates Enterprises Ltd., within the dates of 1984 July 5 to 1984 August 10. Level sites for the drilling were blasted out of the hillside by a blaster and helper employed by the contractor, Dieter Developments Ltd. A summary of the drilling is located in Table 2.

The core from the holes was logged and appropriate sections were split with one-half of the core being sent to CDN Resources Laboratories Ltd in Delta where it was crushed, pulverized and analyzed geochemically for gold, silver, arsenic, copper, lead and antimony. All samples that analyzed greater than 1000 ppb gold were subsequently assayed for gold. The assay was reported in grams.

The diamond drill logs complete with analyses are located in Appendix B of this report. In the back pocket are several drill hole cross sections containing the geology and analytical results for each of the 1984 holes. Where it applied, 1983 drill holes were included in the sections (Dwgs. B84-2, B84-3, B84-4, B84-5, B84-6).

The 1983 drilling was all relogged in order to suit the metamorphic nomenclature used in 1984. These logs are found in Appendix C of this report.

Unsplit core and the remaining split core is stored in core racks on the property.

TABLE 2

## DIAMOND DRILL HOLE SUMMARY

DDH #	Location		Elevation (m. asl)	Dip		Azimuth		Total Length (m)	Casing (m)	Core Rcvy	Date Drilled	
	Latitude	Departure		Initial	Final	Initial	Final				From	To
B84-1	4+00S *(4929.6N)	4+50W (4850E)	1876 (1888.5)	-70°	-82°	090°	-	196.6	6.1	90%	July 9	July 11
B84-2	4+00S *(4909.9N)	2+40W (5059.8E)	1844 (1862.9)	-45°	-52°	270°	-	218.2	9.75	95%	July 12	July 14
B84-3	5+00S *(4821.2N)	4+00W (4897.8E)	1840 (1847.3)	-45°	-52.5	000	-	184.1	7.9	90%	July 15	July 18
B84-4	6+50S *(4640N)	4+50W (4842.1E)	1810 (1802.2)	-45°	-57.5	000	-	207.0	9.14	79%	July 19	July 22
B84-5	6+25S *(4683N)	3+50W (4947.9E)	1770 (1774.4)	-45°	-60°	000	-	314.9	9.75	87%	July 23	July 28
B84-6	5+00S *(4812.5N)	2+70W (5021.9E)	1810 (1814.2)	-45°	-65°	000	335°	214.6	17.1	95%	July 29	July 31
B84-7	4+00S *(4931.1N)	3+75W (4978.2E)	1850 (1881.8)	-60°	-82°	180	230°	160.3	12.2	90%	Aug 1	Aug 3
B84-8	6+25S *(4681.2N)	1+90W (5106.9E)	1732 (1737.9)	-45°	-58°	000	023°	186.9	9.5	85%	Aug 4	Aug 6
B84-9	5+00S *(4876.5N)	7+50W (4544.6E)	1802 (1815.2)	-45°	-58°	000	356°	165.8	18.9	95%	Aug 6	Aug 9

\*1984 Surveyed data.

SUMMARY

In 1984 a diamond drilling program on the BILL property was designed and performed to check the continuity and grade of mineralized zones intersected in 1983 drilling as well as define a model for the structural controls of gold mineralization on the property.

Along with diamond drilling, soil geochemistry, VLF-EM and prospecting of geochemical anomalies were performed partly to fill in holes in previous coverage and partly to help define controls for mineralization.

A structural and alteration map was produced and was helpful in determining significant parameters of the mineralization. A detailed description will be produced by Ian Patterson of Cominco Ltd. later this year.

CONCLUSIONS

Diamond drilling, prospecting and mapping succeeded in defining many of the controls of mineralization on the BILL claims. The geochemical anomalies were mostly explained by prospecting and drilling with the 1983 and 1984 drilling explaining the large high grade geochemical anomaly.

*John Kowalchuk*



STATEMENT OF EXPENDITURESCOVERING TIME PERIOD 1984 JULY 4 - 1984 AUGUST 20

1.	Non-contract personnel		
	Supervision and logging Geologist - 50 days	\$	11 250.00
	Mapping and logging Geologist - 42 days		10 500.00
	Soil samplers - 28 days		2 800.00
	Geophysical operator - 12 days		1 800.00
	Core splitter - 42 days		4 200.00
	Total labour costs	\$	30 550.00
2.	Camp operations		
	Costs for room, board, fuel		
	494 mandays @ \$50/manday		24 700.00
3.	Diamond drilling (D.W. Coates Enterprises Ltd)		
	1848.4 m drilled - invoiced costs		
	(including demobilizing drill)		163 604.93
	Fuel costs (Shell diesel)		4 530.50
4.	Site Preparation (Dieter Developments Ltd)		
	9 sites - invoiced cost		21 740.23
5.	Equipment Charges		
	Sabre VLF/EM unit - 1 month		200.00
	HF-SSB Radio (Traeger) - 2 months @ \$281.50/mth		563.00
	Eastman Single Shot - 12 days @ \$80/day		960.00
6.	Analytical Services (CDN Resource Laboratories)		
	351 soil samples (preparation @ \$0.75)		263.25
	458 rock samples (preparation @ \$2.50)		1 145.00
	351 soil samples (Au,Ag,As @ \$11.00)		3 861.00
	458 rock samples (Au,As,Ag,Cu,Pb,Zn,Sb @ \$14.25)		6 526.50
	62 rock samples (Au assay @ \$6.50)		403.00
	Total analytical charges		\$12 198.75
7.	Rotary wing service (Costs include fuel)		
	ALC Airlift Corporation (Hughes 500D)		
	148.8 hrs @ \$550/hour		81 840.00
	Northern Mountain Helicopters (Bell 205)		
	13.2 hrs @ \$1167.73/hour		15 414.00
	Fuel - 20 drums (Chevron)		3 318.00

8.	Fixed-wing Service	
	Central Mountain Air Service	
	Beech 18 and Piper Navajo (invoiced charges)	\$ 11 589.44
	North Caribou Air Service	
	DC3 (invoiced charges)	29 813.00
9.	Air Fares	
	PWA - 6 return air fares	
	Vancouver-Smithers-Vancouver @ \$295.90	1 775.40
10.	Shipping charges	
	Loomis invoices	207.75
	PWA invoices	293.30
11.	Report preparation	
	Writing and compilation - 15 days	3 375.00
	Drafting (J. Stroleny - invoices)	954.00
	Typing	300.00
	Copying services	98.49
		<hr/>
	Total cost of project	\$ 408 025.79
		<hr/> <hr/>

*John Kowalchuk*

STATEMENT OF QUALIFICATIONS

I, John M. Kowalchuk, do hereby certify that:

1. I am a geologist residing at 3086 Mariner Way, Port Coquitlam, BC and was employed by Du Pont Canada Inc.
2. I am a graduate of McMaster University, Hamilton, Ontario with a B.Sc. Geology in 1970.
3. I am a Fellow of the Geological Association of Canada.
4. I am a Member of the Canadian Institute of Mining and Metallurgy.
5. Since 1970 I have been engaged in mineral exploration across Canada, primarily British Columbia.
6. Between 1984 July 4 and 1984 August 20, I participated in and supervised the field program on the BILL claims and have assessed and interpreted the data resulting from this work.



J. M. Kowalchuk

1984 October 4

APPENDIX A

ANALYTICAL PROCEDURES

APPENDIX A

*MIN-EN Laboratories Ltd.*

*Specialists in Mineral Environments*

Corner 15th Street and Bewicke  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C.  
CANADA V7M 1T2

GOLD GEOCHEMICAL ANALYSIS BY MIN-EN  
LABORATORIES LTD.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pretreated with HNO<sub>3</sub> and HClO<sub>4</sub> mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 0.005 ppm (5ppb).

APPENDIX A

*MIN-EN Laboratories Ltd.*

*Specialists in Mineral Environments*

Corner 15th Street and Bewicke  
705 WEST 15th STREET  
NORTH VANCOUVER, B.C.  
CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK

PROCEDURES FOR Mo, Cu, Cd, Pb, Mn, Ni, Ag, Zn, As, F

Samples are processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with  $\text{HNO}_3$  and  $\text{HClO}_4$  mixture.

After cooling samples are diluted to standard volume. The solutions are analyzed by Atomic Absorption Spectrophotometers.

Copper, Lead, Zinc, Silver, Cadmium, Cobalt, Nickel and Manganese are analysed using the  $\text{CH}_2\text{H}_2$ -Air flame combination but the Molybdenum determination is carried out by  $\text{C}_2\text{H}_2$ - $\text{N}_2\text{O}$  gas mixture directly or indirectly (depending on the sensitivity and detection limit required) on these sample solutions.

For Arsenic analysis a suitable aliquote is taken from the above 1 gram sample solution and the test is carried out by Gutzeit method using  $\text{Ag CS}_2\text{N} (\text{C}_2\text{H}_5)_2$  as a reagent. The detection limit obtained is 1.2 ppm.

Fluorine analysis is carried out on a 200 milligram sample. After fusion and suitable dilutions the fluoride ion concentration in rocks or soil samples are measured quantitatively by using fluorine specific ion electrode. Detection limit of this test is 10 ppm F.

APPENDIX

ANALYTICAL PROCEDURES FOR DUPONT "BILL" DRILL CORE

A. ARSENIC

1. Accurately weigh out a 1.00 gram sample.
2. Add about 20 mls of concentrated nitric acid and digest for 10 minutes.
3. Add 10 mls of 1:1 sulfuric acid and take down to dense  $SO_3$  fumes.
4. Add 5 mls of nitric acid and 30 mls of distilled water, then heat to boiling to dissolve the salts.
5. Filter, bulk to 100 mls and present to AA. (nitrous-oxide acetylene flame).

A number of checks were run using the above method with good reproducibility. Some samples were also run using a cold aqua regia leach and some using bromine with nitric and sulfuric acids. Again we were able to reproduce the original results. A number of samples were checked using the hydride vapour generator; these verified the original results also.

B. GOLD

1. Gold was determined using a standard fire-assay procedure.

## APPENDIX

### FIRE ASSAY METHOD - Silver & Gold (Oz/Ton)

Silver and gold analyses are done by standard fire assay techniques. In the sample preparation stage the screens are checked for metallics which, if present, are assayed separately and calculated into the results obtained from the pulp assay.

0.5 assay ton sub samples are fused in litharge, carbonate and silicious fluxes. The lead button containing the precious metals is cupelled in a muffle furnace. The combined Ag & Au is weighed on a microbalance, parted, annealed and again weighed as Au. The difference in the two weighing is Ag.



APPENDIX B

1984 DIAMOND DRILL LOGS

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

DRILLED BY: D.W. Coates Enterprises Ltd.  
 DRILL TYPE: Longyear 38 LENGTH: 196.6m  
 CLAIM: Bill 3 DIP: -70°  
 LATITUDE: 4+00S (4929.6N) DEPARTURE: 4+50W (4850E)  
 ELEVATION: 1876 m (1888.5) AZIMUTH: 090°  
 HOLE STARTED: July 9, 1984 HOLE COMPLETED: July 11, 1984  
 (Surveyed grid and elevation)

ACID &/OR TRO - PARI TESTS					
DEPTH	DIP	AZIMUTH	DEPTH	DIP	AZIMUTH
0	-70				
111.3	-78				
169.2	-82				
196.6	-82				

SHEET No.1 OF: 7  
 HOLE NUMBER: B84-1  
 PROPERTY: BILL  
 ACCOUNT No.: 361-00  
 CORE SIZE: NQ  
 % CORE RECOVERY: \_\_\_\_\_  
 LOGGED BY: J.M. Kowalchuk

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au	As	Ag	Cu	Pb
							FROM	TO	WIDTH	Au g/t	ppb	ppm	ppm	ppm
0.0	6.1			Overburden										
6.1	14.3		88	Chlorite Feldspar Schist										
				Well foliated brownish-green rock. Foliation 55°/core axis.										
				Fsp phenocrysts lying along foliation plane. Some qtz veining										
				1 cm thick along foliation.										
				9.0 - 2 cm qtz vein 40°/core axis - oblique to foliation 40°.										
				Texture is porphyritic - med-coarse grained.										
				Extensive chloritization.										
				10% hematite, calcite along foliation.										
				12.7-13.4 - fault zone, rock gouge										
				hematite possibly after siderite.										
				5% calcite, 10% muscovite, 20% chlorite, trace pyrite.										
14.3	30.6		100	Chlorite Schist										
				Dark green, well foliated rock, fine-med. grained, massive										
				foliation 45-55° becoming more intense and pyllitic at depth.										
				Upper contact gradational over 0.5 m.										
				Qtz-calcite veinlets, less than 0.5 cm thick lie along foliation										
				planes.										

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-1

SHEET NUMBER 2 OF 7

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS							
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au	Au	As	Ag	Cu	Pb	
							FROM	TO	WIDTH	g/T	ppb	ppm	ppm	ppm	ppm	
				15.2 - 3 cm qtz-calcite vein parallel to foliation. Some sections tuffaceous in texture. Other sections finer grained and more massive. Py and AsPy lie within foliation planes. Scattered fine qtz-carb filled fractures at 25° to core axis more intensely foliated sections are more micaceous - bit more muscovite.												
				16.6 - 5 cm qtz-carb vein subparallel to foliation contains 20% Fe carb. vein surrounded by 20 cm of gouge. Coarser fractions more massive, finer fractions better folded. Extensive qtz carb veining at 20° and along foliation near bottom of contact. 3 m from contact gets up to 20% siderite in foliation planes bottom contact sharp. 10% calcite, 5% muscovite, 40% chlorite, 0.1% AsPy, Trace pyrite.												
30.6	32.0		85	Qtz-muscovite-carbonate schist Light brown coloured, contains extensive Fe carb, several 2 cm qtz veins parallel to foliation. Extremely sheared. Foliation and shearing 25°/core axis. Some minor fault gouge, light brown colour a result of Fe carb, up to 25% ankerite. 20% quartz, 40% calcite, 10% muscovite.	7000G		30.6	32.0		--	10	14	L.1	8	7	

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: BB4-1

SHEET NUMBER 3 OF 7

INTERVAL (METRES)				DESCRIPTION	SAMPLE			ASSAYS								
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm	
							FROM	TO	WIDTH							
32.0	61.2		100	Chlorite Schist												
				Similar to greenstone higher in section-dark green colour, very well folded 65°/core axis. Fine to medium grained. Top two metres contains 30-40% Fe Carb-Qtz fillings along foliation planes. Extensive qtz blebs lying within foliation planes. Blebs up to 2 cm across. A few qtz-carb veinlets > 1 cm thick running normal to foliation at about 20° to core axis.												
				33.0 - 16 cm bull qtz vein parallel to foliation.												
				36.2-36.7 - broken core, extensive qtz veining parallel to foliation.												
				40.1 - 1 cm qtz-carb vein 10°/core axis.												
				41.5 - 0.5 cm qtz vein 20°/core axis.												
				44.1 - 2 cm qtz-carb vein 5°/core axis.												
				44.5 - 3 cm qtz-carb vein 30°/core axis.												
				39 - a medium-grained massive section, foliation poorly developed.												
				47.5 - foliation 65°/core axis.												
				50.5 - 10 cm qtz vein parallel to foliation.												
				53.3 - qtz carb vein at 40°/core axis.												
				All above qtz veins are unmineralized and show minor epidote and chlorite alteration with them.												
				55.7-55.9 - 1 cm qtz veins crossing core at 40° and -30°.												
				56.3 - 5 cm qtz-carb vein												
				25% qtz, 10% calcite, 5% muscovite, 40% chlorite, trace pyrite.												

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-1

SHEET NUMBER 4 OF 7

INTERVAL (METRES)				DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb PPM
							FROM	TO	WIDTH						
				57.8-58.2 - Qtz vein containing 10% AsPy and 5% as bands within it.	7026G		58.8	59.3		3.6	5200	10000	L.1	22	8
				Qtz vein & bands 20°/core axis, oblique to foliation. 80% Qtz, 5% calcite, 10% AsPy, 5% pyrite.											
				59.1-61.2 - Greenstone becomes better foliated and more micaceous and pyllitic - less chlorite, 50% Qtz, 5% calcite, 15% muscovite, 20% chlorite.											
61.2	70.3		95	Qtz-muscovite-carbonate schist Schistose muscovite-quartz-carbonate rock. Pale green-grey in colour. Foliation 80/core axis. Several Qtz blebs along foliation planes contain Py. Py also diss. along foliation planes.	7001G		59.2	62.3		--	L5	150	0.1	30	1
				63.0 - 7 cm Qtz vein parallel to foliation. Fractures within Qtz vein normal to foliation contain AsPy.	7002G		62.3	64.3		--	5	210	L.1	8	8
				66-66.2 - Fr. parallel to core contains sulphosalt along it. Bournonite?	7003G		64.3	66.3		--	10	90	0.2	16	1
				67.3 - Rock becomes more rusty up to 10% Py diss. along foliation planes.	7004G		66.3	68.3		--	L5	12	0.1	34	1
				68.3-68.8 - gouge zone. 45% Qtz, 5% calcite, 45% muscovite, tr. AsPy, 5% pyrite.	7005G		68.3	70.3		--	10	40	0.1	18	8
70.3	76.4		100	Muscovite-Chlorite Phyllite Green coloured, very well foliated. Ankerite and Qtz in foliation planes. Several narrow Qtz stringers subparallel to core which contain Py and AsPy. Fold planes quite kinked. Minor bleaching envelopes around veins. 45% Qtz, 5% calc, 20% musc, 25% chlorite, 1% AsPy, 2% Py.	7006G		70.3	72.3		--	25	360	0.3	20	3
					7024G		72.3	74.3		--	15	20	L.1	44	1
					7025G		74.3	76.4		--	180	2050	L.1	42	1

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-1

SHEET NUMBER 5 OF 7

INTERVAL (METRES)				DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/r	Au pph	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
76.4	83.7		100	Qtz-Muscovite-Schist											
				Very well foliated schist - yellow green in colour.											
				Some minor chlorite remaining.											
				76.4-78.03 - 1 cm qtz vein containing 5% AsPy, 5% Py and visible	7007G		76.4	78.4		1.6	2350	3500	0.1	8	2
				gold. Several AsPy bearing qtz veins through	7008G		78.4	80.4		--	40	380	L.1	10	4
				section.	7009G		80.4	82.4		--	15	78	0.1	12	1
				81.2 - 5 cm qtz vein containg Py, AsPy, parallel to foliation.											
				82.6-82.9 - 2 cm qtz vein subparallel to core axis containing	7010G		82.4	84.0		--	50	120	0.1	22	1
				AsPy, Py.											
				40% qtz, 10% calcite, 40% muscovite, 5% chlorite, 2% AsPy, 4% Py											
83.7	94.2		100	Chlorite Schist											
				Dark green rock well foliated-foliation 40°/core axis.											
				Several qtz and qtz carb separations along foliation planes.											
				87.0-93.3 - Rock quite sheared and bleached. Quite contorted.											
				50% qtz, 10% calcite, 30% muscovite, 5% chlorite,											
				0.1% Py											
				Increase in muscovite and qtz carb veining in sheared section.											
				Trace of pyrite along foliation planes in sheared section.											
				30% qtz, 10% calcite, 10% muscovite, 40% chlorite.											
94.2	121.6		100	Qtz-Muscovite Schist	7011G		94.2	96.2		--	45	96	0.1	58	5
				Very well foliated. Qtz segregations along foliation planes.	7012G		96.2	98.2		--	30	120	0.1	40	2
				Some pyrite disss. along cleavage planes and in Qtz segregations.	7013G		98.2	100.2		--	15	2	0.1	26	1
				Cleavage 60°/core axis.	7014G		100.2	102.2		--	15	2	0.6	24	1
				105.5 - 1 cm qtz vein 45°/core axis containing Py and tr.AsPy.	7015G		102.2	104.2		--	30	115	0.1	28	1

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-1

SHEET NUMBER 6 OF 7

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
				111.4 - 10 cm bull qtz vein cont. Py-subparallel to core axis.	7016G		104.2	106.2		--	20	64	0.2	34	1
				116.0 - Rock slightly less siliceous and more chloritic.	7017G		106.2	108.2		--	150	50	L.1	70	4
				Biotite becomes prevalent over muscovite.	7018G		108.2	110.2		--	20	30	L.1	44	2
				40% qtz, 10% calcite, 40% muscovite, 5% chlorite, tr. AsPy, 1% Py.											
121.6	148.2		100	<u>Chlorite Schist</u>	7019G		110.2	112.2		--	15	20	L.1	36	1
				Well foliated chlorite rich rock, qtz-carbonate are segregated	7020G		112.2	114.2		--	25	20	L.1	56	1
				along foliation planes. Traces of pyrite in with qtz-carb.	7021G		114.2	116.2		--	40	30	0.2	66	3
				Some of the carbonate is ankerite.	7022G		116.2	118.2		--	15	10	L.1	46	1
				Foliation is 50°/core axis.	-- 7023G		118.2	121.0		--	10	10	L.1	17	1
				126.6-126.8 - Fault gouge											
				Minor qtz carb. veining 35°/core axis - qtz veining post											
				foliation.											
				Some slightly more sheared sections contain musc. and ankerite											
				135.4-135.6.											
				Large qtz carbonate selvage at contact.											
				A few small breccia zones 5-10 cm containing hematite.											
				25% qtz, 10% calcite, 10% muscovite, 40% chlorite, tr. pyrite.											
148.2	196.6		95	<u>Chlorite Schist</u>	469		160.9	162.8		--	140	2600	L.1	46	6
				Well foliated carbonatized chlorite phyllite. Far less qtz	470		162.8	164.8		--	30	170	L.1	11	1
				segregations in this rock.	471		164.8	166.4		--	110	2100	L.1	9	1
				Most segregations are carbonate rock. Foliation runs 55°/C.A.	472		166.4	168.4		--	430	5700	L.1	21	1
				148.6-150.3 - Fault gouge. Shearing parallel to fol. at 30°.	473		168.4	170.6		--	870	2550	0.4	22	3
				151.7-151.8 - Small qtz filled shear at 30°, no sulphides.											







# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-2

SHEET NUMBER 2 OF 8

INTERVAL (METRES)				DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
41.5	63.5		80	Calcareous Chlorite Schist	431		43.8	45.8		--	90	2800	0.2	26	5
				Carbonate and ankerite altered greenstone folded 50°/core axis,	432		45.8	47.8		--	80	110	L.1	17	1
				well developed. Some sericite alteration as well.	433		47.8	49.8		--	5	80	L.1	22	1
				43.75 - extensive qtz veining parallel to subparallel to core	434		49.8	51.8		--	100	1400	0.4	70	1
				axis. Qtz veins contain abundant Py and arsenopyrite.	435		51.8	53.8		1.0	1150	+10000	0.4	10	2
				Py and AsPy also diss. throughout core. Core very rusty	436		53.8	55.8		--	580	8400	L.1	11	1
				and broken. Foliation becomes 80° to core axis.	437		55.8	57.8		--	150	2500	0.2	52	1
				Qtz veining 5°/core axis.	438		57.8	59.8		--	60	600	L.1	40	1
				50.6-63.5 - very rusty and gouged core - broken. Much limonite,	439		59.8	61.8		--	690	3400	0.4	78	1
				some muscovite.	440		61.8	63.8		--	30	140	L.1	52	1
				45% qtz, 25% calcite, 10% muscovite, 10% chlorite, 1% AsPy, 4% Py											
63.5	70.6		100	Chlorite Schist											
				Some carbonate alteration, well foliated with carb. along											
				foliation planes. Qtz segregations and minor ankerite along											
				foliation planes. Foliation 50°/core axis.											
				Q.V. 0.5 cm 45°/core axis - several at this angle.											
				Q.V. 0.2 cm 20°/core axis.											
				35% qtz, 15% calcite, 5% musc, 35% chlorite, tr. AsPy, 1% pyrite.											
70.6	79.9		100	Chlorite Schist											
				Very well foliated. Fine grained chlorite rich rock.	441		79.2	80.2		--	10	90	0.4	40	3
				Extensive quartz segregations parallel to foliation.											
				Foliation - 45°/core axis. Minor ankerite along parts of											
				foliation.											
				74.5-75.0 - large barren qtz vein bleached and altered phyllite.											
				40% qtz, 5% calcite, 10% musc, 40% chlorite, tr. AsPy, 1% Py.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-2

 SHEET NUMBER 3 OF 8

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au	Au	As	Ag	Cu	Pb
							FROM	TO	WIDTH	g/t	ppb	ppm	ppm	ppm	ppm
79.9	94.8		95	Qtz-Musc Schist (Breccia)											
				Medium grey broken and brecciated rock. Main fr. and foliation	442		80.2	82.2		--	40	1200	0.2	20	7
				direction is subparallel to core axis. Mostly sheared qtz musc	443		82.2	84.2		--	50	50	L.1	8	2
				schist.	444		84.2	86.2		--	50	140	0.2	11	1
				Extensive pyrite mineralization and dark grey metallic mineral	445		86.2	88.2		--	210	50	0.2	8	1
				(sulphosalt?) impart the grey colour (possibly some fine AsPy).	446		88.2	90.2		1.4	1560	210	0.2	9	1
				Some minor arsenopyrite within many small qtz veins. Related	447		90.2	92.2		--	40	70	0.2	6	2
				to shearing.	448		94.2	96.2		--	20	80	L.1	7	1
				90.0 - rock becomes less brecciated, foliation 60°/core axis.											
				30% qtz, 5% calcite, 35% musc, tr. AsPy, 3% pyrite.											
94.8	99.5		100	Diabase											
				Intrusive dyke or sill, slightly porphyritic with Fsp and horn-	449		98.6	100.2		--	30	60	0.2	23	1
				blende phenocrysts. Dark green-grey colour unit quite bleached											
				along upper and lower contacts. Contact with schist is unclear											
				although it looks like it is quite steep, say 10-20° to core axis.											
				Qtz veining within unit has bleached envelopes. Qtz veins											
				contain pyrite, bournonite and cut core at 20°.											
				20% qtz, 0.5% pyrite.											
99.5	100.1		100	Qtz-Musc Schist											
				Bottom contact is with 0.5 metres musc-qtz schist.											
100.1	102.5		100	Spotted Chlorite Schist											
				Well foliated greenstone containing extensive qtz separations											
				along foliation planes. Some Py and hematite along foliation											
				as well.											



# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-2

SHEET NUMBER 5 OF 8

INTERVAL (METRES)				DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
				126.8 - 0.5 cm qtz vein parallel to core axis containing Py and AsPy.	453		125.5	127.5		--	130	450	L.1	16	1
				129.9-139.1 - several narrow qtz veins parallel to core axis containing AsPy and Py. 3% AsPy, 3% Py.	501		127.5	130.0		--	200	590	L.1	26	1
					454		130.0	132.0		--	840	2700	0.2	22	1
				139 - chloritic rock well foliated, very well separated qtz carb. veins parallel to foliation - carbonate is dolomite and ankerite. 45% Qtz, 15% calcite, 35% chlorite, Tr. Py.	455		132.0	133.2		--	100	1800	0.2	16	2
					456		133.2	135.2		--	880	3800	L.1	11	1
					457		135.2	137.2		0.9	1130	410	L.1	8	1
					458		137.2	139.2		3.7	3200	6400	0.2	29	1
145.9	148.1		100	<u>Qtz-Musc Schist</u>											
				Well foliated - AsPy vein running down core axis.	459		145.9	148.1		2.6	1950	2700	L.1	15	1
				Qtz vein cont. AsPy at 146.6 - 10 cm across.											
				35% Qtz, 15% calcite, 25% musc, 2% AsPy, 4% pyrite											
148.1	150.1		100	<u>Chlorite Schist</u>											
				Well foliated - Qtz-carb. along foliation planes - dark green colour.											
				30% qtz, 15% calcite, 5% musc, 30% chlorite.											
150.1	151.2		100	<u>Diabase Dyke</u>											
				Bleached-slightly porphyritic dyke or sill - contact with greenstone 65° - subparallel to foliation. Qtz vein swarm -15°, -40°, 90°, barren.											
151.2	152.0		100	<u>Chlorite Schist</u>											
				Dark well foliated greenstone in contact with dyke at bottom. Foliation 50°. Contact at -20°.											
				Greenstone bleached at upper contact.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-2

SHEET NUMBER 6 OF 8

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au	Au	As	Ag	Cu	Pb
							FROM	TO	WIDTH	g/t	ppb	ppm	ppm	ppm	ppm
152.0	164.9		100	Dyke											
				Hornblende and Fsp phenocrysts. Bleached along upper and lower contacts.											
				Many barren qtz veins at -20°.											
				160 - 161 - Qtz vein + chloritic greenstone.											
				163.4-163.7 - Greenstone.											
				Parts of dyke are bleached, core probably running near edge of dyke or possible greenstone inclusions are xenoliths.											
				Bottom contact 90°.											
164.9	165.7			Qtz-Muscovite Schist											
				Well foliated qtz and ser and carb schist; py in diss. and qtz and carb fractures, minor dark grey sooty sulphide layers parallel to foliation; core axis 90°.	460		164.9	166.2		--	110	60	L.1	16	3
				35% qtz, 45(?)% calcite, 20% musc, tr.? AsPy, 3% pyrite.											
165.7	166.2			Dyke											
				Contact 90°, chilled margin, green and f.gr. with feldspar and pseudomorphed reddish hbl crystals, 2 mm qtz and carb. veins.	461		166.2	168.2		--	60	490	L.1	20	1
166.2	168.7		100	Chlorite schist											
				Fol. greenstone with barren qtz seats parallel to foliation. A few sericitic zones, two qtz-pyaspy veins, core axis 90°; grades into bleached qtz and carb and sericite zone.											
				10% musc, 40% chlorite, tr. AsPy, 2% Py.	462		168.2	170.2		--	210	290	L.1	11	1
168.7	172.3		100	Qtz-Musc Schist											
				Pale green-white schist, qtz sweats, diss. AsPy + Py; also qtz + carb.+py + AsPy veins.	463		170.2	172.2		3.1	1800	5600	0.4	15	5



# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-2

SHEET NUMBER 8 OF 8

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M.)			Au g/r	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
187.0	206.4			Chlorite Schist	532		187.0	189.0		--	25	70	L.1	19	1
				Dark green foliated green schist, occasional bleached pyritic patches, feldspar blebs, occ. qtz segregs, dissem. py, qtz + carb. veins 3 mm to 3 cm qtz + py + AsPy + cc, mainly $\approx$ 1 to 2 mm.	533		189.0	191.0		--	125	80	L.1	26	1
				Minor hem. stain.	534		191.0	192.4		--	390	510	L.1	20	1
				Qtz + py AsPy vein (194.8)	479		192.4	196.4		--	150	450	L.1	7	1
				Py + AsPy on fract. (193.8)	480		196.4	198.4		--	20	30	L.1	4	1
				Between 195 and 206 py + AsPy + qtz veins are irregular and thin (1 mm). At 203.7 to 204.3 there is a bleached silic zone with 5% dissem. py.	482		198.4	200.4		--	30	20	L.1	3	5
				30% Chlorite, 0.5% AsPy, 3% Pyrite.	483		200.4	202.4		--	15	10	L.1	8	1
				Qtz-Musc Schist	484		202.4	204.4		--	20	10	L.1	11	1
				Mainly white to pale green QCM schist with intercalations of green schist.	485		204.4	206.4		--	50	30	L.1	9	2
				Significant veins at 208.8 (1.5 cm), 211.5, 212.9, 218.2. - hole ended in mineralization.	486		206.4	208.4		--	180	2100	L.1	30	1
				30% qtz, 50% calcite, 20% musc, 0.5% AsPy, 2% Py.	487		208.4	210.4		1.4	1240	6100	0.4	48	2
206.4	218.2			Qtz-Musc Schist											
				Mainly white to pale green QCM schist with intercalations of green schist.	488		210.4	212.4		--	720	3800	0.2	36	3
				Qtz + py + AsPy + black f.gr. sulphide are common in section.	489		212.4	214.4		15.6	10000	850	0.2	38	1
				Significant veins at 208.8 (1.5 cm), 211.5, 212.9, 218.2. - hole ended in mineralization.	490		214.4	216.4		--	30	50	L.1	23	2
				30% qtz, 50% calcite, 20% musc, 0.5% AsPy, 2% Py.	491		216.4	218.4		--	90	470	L.1	33	1



# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

DRILLED BY: D. W. Coates Enterprises Ltd.  
 DRILL TYPE: Longyear 38 LENGTH: 184.1  
 CLAIM: BILL 3 DIP: -45°  
 LATITUDE: 5+00S (4821.2N) DEPARTURE: 4+00W(4897.8E)  
 ELEVATION: 1840 (1847.3) AZIMUTH: 000  
 HOLE STARTED: 1984 July 15 HOLE COMPLETED: 1984 July 18

DEPTH	DIP	AZIMUTH	DEPTH	DIP	AZIMUTH
0	-45				
62.8	-45				
123.7	-53				
184.1	-52.5				

SHEET No. 1 OF: 5  
 HOLE NUMBER: B84-3  
 PROPERTY: BILL  
 ACCOUNT No.: 361-00  
 CORE SIZE: NQ  
 % CORE RECOVERY:  
 LOGGED BY: I.A. Patterson

INTERVAL (METRES)				DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
0	7.9														
7.9	27.4														
27.4	32.0				701		27.0	29.0		--	70	920	0.2	24	1
					702		29.0	32.0		0.9	1870	1510	0.2		1
32.0	81.5				703		32.0	34.0		--	320	1830	0.8	22	8
					704		34.0	36.0		--	50	760	1.8	60	8

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-3

SHEET NUMBER 2 OF 5

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
				36-38 - broken oxidized and bleached zone. Qtz + AsPy + py	705		36.0	38.0		--	630	6400	1.6	28	290
				veins and assoc brecciated zones are fairly numerous	706		38.0	40.5		--	40	300	0.4	28	4
				(vn with 160° strike) qtz vein at 42.8 (4 cm) - AsPy	492		40.5	42.5		--	50	500	0.4	36	5
				at margins.	493		42.5	45.0		--	500	3200	0.4	28	134
				Qtz and AsPy and py + carb. veins between 46 and 50; 9 veins	707		45.0	47.0		--	520	2900	0.2	28	3
				av. width 1 cm, 3 attitudes - steep with 120 to 130° strike - no	708		47.0	49.0		--	360	2300	L.1	28	2
				bleaching.	709		49.0	51.1		--	15	20	L.1	56	4
				51 - 55 - qtz vein up to 5 cm with 5% AsPy.	494		51.1	53.1		--	430	3600	0.4	46	4
				55 - 60.5 - fol. green feldspar crystal tuff. Core axis 56°,	495		53.1	55.1		--	610	5000	0.6	42	26
				qtz segregs. parallel to foliation, py stringers.	710		55.1	57.1		--	5	160	0.2	15	11
				60.5-79 - fairly well veined (qtz + py + AsPy + carb. - some	711		57.1	60.5		--	L5	10	L.1	30	1
				veins carbononly, 1-2 cms apart - excellent stockwork.	496		60.5	63.3		--	180	1100	0.4	30	1
				35% qtz, 5% calcite, 20% musc, 20% chlorite, 1% Py	497		63.3	65.3		3.15	2450	4200	0.4	28	3
					498		65.3	67.3		2.30	3200	2600	0.4	38	2
81.5	94.3			Qtz-Muscovite Carbonate Schist	499		67.3	69.3		--	460	1340	0.4	34	1
				Grey white schist. Core axis at 85 m = 45, occ. green musc	500		69.3	71.3		2.80	1710	3200	0.4	38	2
				zones, py parallel to foliation also occ. AsPy.	523		71.3	73.3		--	520	1400	0.6	40	6
				Core axis - 56°. Minor intercalations of chloritic material.	524		73.3	75.3		--	350	1600	0.4	38	1
				At 90.4 - 10 cm vein of qtz + carb with py + AsPy along	525		75.3	77.3		--	50	740	0.4	42	1
				margins. This vein is parallel to foliation.	526		77.3	79.3		--	430	2000	1.2	42	11
				Elsewhere - veins are present but are thin (2-3 mm).	527		79.3	81.5		--	70	1180	0.8	34	1
				Contact at 94.3 m greenschist is gradational over 10 cm.	528		81.5	83.5		--	L5	180	0.8	28	3
				50% qtz, 30% calcite, 20% musc, 5% chlorite.	529		83.5	85.5		--	70	2200	2.2	40	43
					530		85.5	87.5		--	70	1100	1.6	36	2
					531		87.5	89.5		--	120	790	L.1	15	1

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-3

 SHEET NUMBER 3 OF 5

INTERVAL (METRES)				DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
94.3	99.8			<u>Chlorite schist</u>	712		89.5	91.5		--	50	980	1.4	38	1
				Greenschist, qtz segreggs, occ bleach zones, core axis at 96 m =	713		91.5	93.5		--	25	340	L.1	42	1
				76°. Carb. vein + py - 70°/90° (core axis 20°)	714		93.5	95.5		--	15	110	0.4	68	1
				40% qtz, 20% musc, 30% chlorite.	715		95.5	97.5		--	5	10	L.1	15	1
					716		97.5	99.5		--	5	30	L.1	20	1
99.8	117.9			<u>Qtz-Muscovite-Carbonate Schist</u>											
				Contact gradational.	717		99.5	101.5		--	40	40	0.6	54	1
				100.5-101 - white breccia. Schist is fairly uniform whitish-	718		101.5	103.5		--	50	20	L.1	24	1
				grey in colour.	719		103.5	105.5		--	15	10	L.1	34	1
				10 cm brecc. zone at 106.7 - py + AsPy + black sulphide (total	720		105.5	107.5		5.5	5300	2350	0.6	44	1
				5%) to 107.5 only traces of mineral and not well veined. Py	721		107.5	109.5		--	240	1500	1.0	48	2
				is dissem. and with stringers parallel to foliation.	722		109.5	111.5		--	40	110	0.4	46	4
				108.5 - 114 m series of qtz + carb + AsPy + cpy veins,	723		111.5	113.5		2.0	2350	5400	0.6	46	5
				105°/90°, 108°/90°, 1 mm to 3 cm thickness. One vein at 113.2	724		113.5	115.5		--	20	510	0.6	76	9
				contains qtz brecc. fragments. <u>Important</u> py in veins is not	725		115.5	117.9		--	L5	20	0.2	74	2
				present - it seems that cpy has taken over.	726		117.9	118.9		--	L5	10	0.4	40	1
				70% qtz, 20% musc, tr. AsPy, 1-2% Py.											
117.9	131.7			<u>Chlorite Fsp Schist</u>											
				40% feldspar cystals in foliated pale green chloritic matrix -											
				<u>no</u> qtz segreggs except at contact, very few veins - occ. bleached											
				zones with qtz and musc and feldspar (e.g. 122.5-123.2 note											
				qtz + carb. vein at 122.5 (45°/90°) - vein contains trace py											
				bleached at lower contact.											
				Brecciated zone at 130 m. Crystal tuff is bleached at contact											
				with greenschist. 50% chlorite, 30% qtz, 20% cal, 25% musc.											



# DRILL HOLE RECORD

## DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-3

SHEET NUMBER 5 OF 5

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
166.4	184.1			Chlorite Schist											
				As above.	732		172.0	173.0		--	400	2600	L.1	22	25
				At 172.5 - thin (1-2 mm veins with AsPy).	733		177.7	178.7		--	50	20	L.1	36	5
				At 176, minor qtz + carb + tr. py.	734		178.7	179.3		--	320	580	L.1	7	1
				At 178.7 to 179.2, bleached area with qtz + carb veining and minor py + AsPy.	735		179.3	182.2		--	30	10	L.1	46	2
				Samples taken to compare Au content of greenschist with the bleached rocks. Core axis - 85°.											
				5-20% Musc, 50% chlorite.											
				END OF HOLE											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

DRILLED BY: D.W. Coates Enterprises Ltd.  
 DRILL TYPE: Longyear 38      LENGTH: 207 m  
 CLAIM: BILL 3      DIP: -45°  
 LATITUDE: 6+50S (4640N)      DEPARTURE: 4+50W (4842.1E)  
 ELEVATION: 1810 (1802.2)      AZIMUTH: 000  
 HOLE STARTED: 1984 July 19      HOLE COMPLETED: 1984 July 22

ACID &/OR TRO-PARI TESTS					
DEPTH	DIP	AZIMUTH	DEPTH	DIP	AZIMUTH
0	-45				
61.6	-46.5				
138.4	-49.0				
207	-57.5				

SHEET No.1 OF: 6  
 HOLE NUMBER: B84-4  
 PROPERTY: BILL  
 ACCOUNT No.: 361-00  
 CORE SIZE: NQ  
 % CORE RECOVERY:  
 LOGGED BY: I.A. Patterson

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
0	9.14			Casing in broken bedrock.											
9.14	17.07			<u>Qtz-Muscovite-Carbonate Schist</u>	535		9.14	10.97		--	640	3000	L.1	50	2
				QCM schist, broken, oxidized with interfoliated greenschist,	536		10.97	12.97		4.1	3100	+10000	0.2	24	1
				several irreg. qtz + py + black f.gr. sulphide veins e.g. at	537		12.97	14.00		2.4	3300	1880	L.1	26	1
				11.0-12 m (poor recovery), 13.8 m.	538		14.00	17.00		--	210	840	L.1	50	2
				20% qtz, 50% calcite, 30% musc, AsPy veins, py veins.											
17.07	51.7			<u>Chlorite Schist</u>											
				Broken foliated green feldspar + chlorite schist, qtz segregs.,	539		17.00	20.00		--	50	30	L.1	24	3
				a few minor bleached zones.	540		20.00	22.00		--	15	30	L.1	30	3
				26.3 - qtz + carb + py vein	541		22.00	24.00		--	450	60	L.1	17	1
				24.0 - qtz + carb + py vein	542		24.00	26.00		--	85	260	L.1	24	3
				33.8 - core axis = 60°	543		26.00	28.00		--	180	30	L.1	18	1
				39-41 - minor AsPy = qtz veins.	544		28.00	30.00		--	25	20	L.1	24	1
				Bleaching - is sporadic.	545		30.00	32.00		--	L5	20	L.1	18	1
				Fractures which may have hosted sulphides are oxidized.	546		39.00	41.00		--	L5	760	L.1	24	2
				Some sections are only weakly foliated.											
				Note vein at 45.6.											
				Pyrite.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-4

SHEET NUMBER 2 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au pph	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
				46.7-48.7 - brecciated patches with py + ank veins. 10% qtz, 40% chlorite, tr. AsPy, <1% Py.	547		46.7	48.7		--	L5	270	L.1	22	4
51.7	60.6			<u>Spotted Chlorite Schist</u> Similar to above but with 15% dark green chl. blebs in lighter green foliated matrix - contact with feldspar crystal tuff of previous unit is sharp. Core axis at 60 m = 55°. Very few veins, qtz segregs. are present - schist becomes pale green towards lower contact. 40% chlorite.											
60.6	87.0			<u>Chlorite Schist</u> Gradational contact with above - finely laminated in top section to 65 m, core axis at 64 m = 40°. Between 60 and 67, qtz segregs., broken rock. At 67, core starts to be veined with local discordant qtz + AsPy + py veins. Note dull bluish oxidation. 69-71 - note local bleaching and pyritization (3-4%). 71-75 - mainly foliated crystal tuff with one AsPy + py vein. At 75, rock becomes very blocky, 50° core axis, host circulation at 79.9 m. 40% qtz, 10% muscovite, 50% chlorite, 1% pyrite.	548		67.0	69.0		--	150	2500	L.1	36	5
					549		69.0	71.0		--	70	460	L.1	22	1
87.0	92.6			<u>Graphite Schist</u> Laminated muscovite + aspy _ feldspar + py + po schist. Core axis 58°. Contact with greenschist is gradational - inter-foliations of slightly bleached greenschist. 30% qtz, 20% musc, 2% py.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-4

SHEET NUMBER 3 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au	Au	As	Ag	Cu	Pb
							FROM	TO	WIDTH	g/t	pph	ppm	ppm	ppm	ppm
92.6	109.3			Chlorite-Fsp Schist											
				Massive weakly foliated chl + feldspar schist. Green with uniform grain size. Core axis at 97.9 = 67°.											
				Barren qtz + carb 1.5 cm vein, core axis = 10°.											
				At 100.5 m irreg. qtz veins (note no qtz sweats in this unit.)											
				Hem. skarn along 1-2 mm qtz veins. Qtz vein at 108.8 - barren, 1 cm thick, irregular. Calcite + spec vein at 108.4 m - strike 90°, core axis 45°.											
109.3	110.0			<u>Fault</u> Core axis margin = 44° - dol + qtz vein then into fault breccia	550		109.3	110.0		1.4	1340	1540	L.1	26	1
				containing 1 cm qtz or greenschist, angular clasts in commin. matrix, dissem py + AsPy - bluish stain on fracture surfaces.											
				Tr. AsPy, 1% Py											
110.0	116.0			Chlorite-Fsp Schist											
				As above re before 109.3.											
				- note bluish mineral on fractures. Lower contact is gradational.											
				40% Chlorite.											
116.0	120.7			Spotted Chlorite Schist											
				10% dark green chlorite blebs in uniform fine grained feld + chl. matrix. Occas. 1 mm cc + spec veins. Lower contact is 12 cm green fault breccia which has 45° core axis with vert. unit.											
				40% Chlorite.											
120.7	130.0			Qtz-Chl-Musc Schist	551		121.0	123.0		--	25	230	L.1	58	2
				Banded and foliated schist. Core axis at 123 m = 54°. Note	552		123.0	125.0		--	50	220	L.1	32	9
				121-125 series of thin (2-5 mm) qtz + py + AsPy veins (strike 90° - dip 90°. Note bleached silic zone at 123.2 m.											



# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-4

SHEET NUMBER 4 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au pph	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
130.0	132.1			Increase in chl. + feldspar content 123-127 m. Lower contact gradational over 10 cm. 60% Qtz, 10% musc, 30% chl, 2% py. <u>Fault</u>											
				Greenschist and white qtz carb. clasts in comminuted matrix in to dissem. py. 131-132 - crumbly schist with minor qtz + py and qtz + carb. veins.											
132.1	136.3			<u>Spotted Chlorite Schist</u> Green, uniform grain size. Blebby (chl) in part. 50% chlorite, tr. py.											
136.3	140.5			<u>Qtz-Muscovite-Carbonate Schist</u> Pale green to white schist num. qtz segreg layers. At 139 m core axis = 45°. 60% qtz, 10% calcite, 25% musc, 5% chlorite, tr. pyrite.											
140.5	143.3			<u>Chlorite Schist</u> As previous - no veins.											
143.3	151.9			<u>Qtz-Muscovite-Carbonate Schist</u> As previous but slightly greener in colour (more chl). 50% qtz, 10% calcite, 25% musc, 15% chlorite.											
151.9	155.3			<u>Graphite Schist</u> Grey-black highly crenulated graphitic muscovite schist. At 154.4-154.7 graphitic fault gouge. Silic pyritic fragments in black soft matrix with pyritic. Pyritic clasts also present. 20% qtz, 30% musc, 10% pyrite.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-4

SHEET NUMBER 5 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/E	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
155.3	162.7			<u>Quartz-Musc Schist</u> Chl + musc + qtz ± carb?; pale greenschist. Well foliated. Segregs of white qtz, some grey silicified zones. Towards lower contact schist contains 10-25% white calcite. 30% qtz, 10.25% calcite, 30% Musc., 15% chlorite, tr. Pyrite.											
162.7	166.0			<u>Calcareous Chlorite Schist</u> Similar to previous unit with which it has a grad. contact. Core axis - 45° at 165.5. Note 5 mm calc bands parallel to foliation. F.grd equigran. 20% calcite, 30% chlorite, tr. pyrite.											
166.0	169.5			Broken rock 166-169.5 (qtz + chl).											
169.5	178.6			<u>Calcareous Chlorite Schist</u> Calc greenschist. Dol(?) + qtz + AsPy + py vein (115/90°) Core axis = 35° at 171.8 (6 mm thick). Between 172.5 and 173 white dol + qtz + AsPy + py + black lustrous mineral, irregular veins. 4 flecks of Au seen in assoc. with AsPy. Note green mineral in bleached zone. Beyond breccia zone veining decreases rapidly (veins 115°/90° 175-178 m spotted schist with 20% qtz or feld eyes, core axis foliation 30°. 10% calcite, 40% chlorite.	553		169.5	172.5		--	180	1480	0.4	46	36
					554		172.5	173.0							
					555		173.0	174.5		10.6	9400	+10000	0.6	30	490
178.6	186.0			<u>Qtz-Muscovite-Carbonate Schist</u> Grey to pale green qtz + musc + chlorite schist; numerous qtz layers (segregs): AsPy vein at 179.5 - Vein cuts qtz segreg. Lower contact in greenschist is gradational. 60% qtz, ? calcite, 20% musc, 20% chlorite.											





# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-5

SHEET NUMBER 2 OF 9

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au pph	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
38.6	50.0			Calcareous Chlorite Schist											
				Weakly foliated chlorite ± calcite greenschist, qtz + calcite	748		44.5	46.5		--	L5	10	L.1	42	1
				± chl veins to 1 cm, core axis 47.5 = 55°.	749		46.5	48.5		--	170	490	L.1	58	1
				Veins of calc + spec + qtz - 1 cm max thickness - note at 47.0 -	750		48.5	50.0		24.7	+10000	2600	0.1	60	4
				8 cm qtz + carb + py + AsPy vein - banded, with grey qtz, bleach-											
				ed margin.											
				Core axis foliation = 55 at 47 m, core axis qtz vein = 45° (approx)											
				47.5-49 - greenschist with barren(?) carb + qtz veins											
				>1 cm, parallel to foliation.											
				48.5-50 - calc greenschist with 2 qtz + carb py + AsPy veins											
				with V.G. Veins are banded with core axis = 55°. Each vein is											
				3-4 cm thick - appear to be striking 80 to 90° to											
				foliation at 125/30°.											
				Note vein at 50.0 - 3 cm - AsPy + py.											
				44% AsPy.											
50.0	51.0			Chlorite Schist Quartz-Musc-Carbonate Schist											
				Transition from greenschist to QCMP schist - interfoliated green;	751		50.0	51.5		--	750	2400	0.6	68	4
				white and pale brownish layers - contains 10 qtz + py + AsPy											
				veins, 3 mm to 1 cm in thickness, core axis at 45°.											
51.0	65.5			Quartz-Muscovite Schist	752		51.5	53.0		--	270	1200	0.8	76	10
				51-54 m - 14 qtz + carb + py + AsPy veins - 2 mm to 1 cm in	753		53.0	54.5		--	20	190	0.2	58	5
				thickness. Intercalations of chl bearing schist. Core axis at	754		54.5	55.5		--	60	20	L.1	56	4
				55.8 m = 50°. Some sections contain dissem py (3%), minor py +	755		55.5	57.5		--	340	240	0.1	62	3
				AsPy at 56.2, 57.6, core axis = 90°. Very few veins 58 to 65.5.	756		57.5	59.5		--	60	300	0.2	84	4
				60% qtz, 20% calcite, 20% musc, 0-10% chl, AsPy veins, 3% py.	757		59.5	61.5		--	40	10	L.1	38	2

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-5

SHEET NUMBER 3 OF 9

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au pph	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
65.5	73.3			Chlorite Schist	758		61.5	63.5		--	40	10	L.1	50	1
				Green chloritic schist with qtz segreg. at contact - grades into	759		63.5	65.5		--	10	10	L.1	90	1
				calc greenschist in 1 m.	760		68.6	70.6		--	30	260	0.1	48	8
				66.9-73.3 - white calc bands and cross cutting qtz + cc + py ±											
				spec veins. Note earthy hem. along fractures.											
				Note section 68.6-70.6 - to test for Au in qtz + carb veins											
				(looks barren to me but there is Au). 73.6 m - core axis = 71°.											
73.3	78.4			Siliceous section for 1 m then into greenschist with blebs (20%),											
				contains a few qtz + carb veins.											
78.4	88.9			Chlorite Schist	761		78.4	79.9		--	430	2300	0.2	66	6
				Mixed bleached greenschist (esp. at contact) and QCMP schist,	762		79.9	81.4		--	35	30	0.1	70	5
				qtz segreg. abundant, qtz + carb + AsPy + py veins at 79.3 m	763		81.4	82.9		--	420	420	0.3	66	5
				(core axis = 45°) 82.4 m (core axis = 70° - banded 2 cm wide).	764		82.9	84.4		--	20	240	L.1	52	4
				Foliations appear contorted locally parallel to core axis.	765		84.4	86.4		--	15	10	L.1	40	1
				60% qtz, 20% calcite, 20% musc, 2% pyrite.	766		86.4	88.4		--	60	20	L.1	36	1
88.9	116.7			Chlorite Schist	767		88.4	90.4		--	170	10	L.1	48	3
				Well foliated greenschist with carb + hem veins cut by white dol.	768		93.0	95.0		--	30	80	L.1	50	1
				veins, core axis of veins = 0°, core axis to foliation = 60° at	769		95.0	96.0		--	50	1300	1.2	38	12
				90.2 m.	770		96.0	98.0		--	10	60	0.1	58	6
				94.2-96.0 - broken, blocky section with AsPy + py + qtz veins at	775		102.6	103.6		--	30	30	0.1	56	2
				95.5 and 95.7 m (1 cm banded veins).			103.6	103.9							
				Note sporadic qtz + calc + py veins with 10° or 80° c/as	774		103.9	104.9		--	L5	30	0.1	60	5
				foliation = 70°.	771		113.5	114.5		--	10	20	L.1	36	2
				At 103.9, 8 mm wide qtz + carb + AsPy + py + native Au,	772		114.5	115.5		--	340	2900	0.1	26	62
				core axis = 80° to 111 m very uniform greenschist with a few	773		115.5	116.5		--	L5	4700	0.9	58	92

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-5

 SHEET NUMBER 4 OF 9

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
116.7	124.0				776		116.5	118.5		--	5	640	0.1	42	6
					777		118.5	120.5		--	40	280	1.1	38	2
					778		120.5	122.5		--	40	420	1.1	42	7
					779		122.5	124.5		--	5	50	0.2	40	15
124.0	131.0				780		124.5	126.5		--	220	4500	4.3	98	8
					781		126.5	128.5		--	170	2000	0.9	56	1
					782		128.5	129.9		--	20	110	0.7	38	1
					783		129.9	130.8		--	30	140	2.6	82	2
131.0	132.9				784		130.8	132.9		4.05	5000	5000	7.9	760	15
					785		132.9	134.0		--	25	180	0.3	128	1
					786		134.0	135.5		--	760	5000	2.8	270	14
132.9	134.0														
134.0	135.5					1-2									

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-5

SHEET NUMBER 5 OF 9

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/ε	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
135.5	152.0			Spotted Chlorite Schist											
				Slightly bleached at contact with breccia for 20 cm - core axis	787		135.5	137.5		--	20	580	0.3	54	4
				at 138.5 m = 56° - bleb contains vares from 50% to 0%. Rock is	788		137.5	139.5		--	10	570	L.1	46	2
				fairly massive but previously weakly foliated, qtz veins + py +	789		139.5	141.5		--	10	110	0.1	42	1
				AsPy are spaced at about 1m to 50 cm, core axis of veins varies	790		141.5	143.5		--	10	10	L.1	28	1
				from 30° (one set) to 80° in another. Thickness of veins 2 cm -	791		143.5	145.5		--	5	20	0.1	58	1
				5 mm. Min. veins at 137.5 (py + AsPy qtz + carb - 4 cm);	792		145.5	147.5		--	100	1700	0.3	30	1
				138.3 (2 cm core axis 80°); 139.1 (3 cm - py + AsPy but mainly	793		147.5	149.5		--	L5	20	L.1	32	4
				qtz, core axis 80°); 140, 140.5 m.	794		149.5	152.0		--	L5	130	0.1	38	1
				142-152.0 - rock is broken with hem. on fractures - note											
				solitary qtz + AsPy vein at 146.0 m.											
152.0	153.2			Breccia zone - 50% altered, greenschist fragments in pale green	795		152.0	153.2		--	110	1700	0.3	24	3
				chl + clay matrix. Note also 5% white qtz frag - at 152-152.2	796		153.2	154.2		--	10	60	L.1	14	1
				breccia qtz vein material with dissem AsPy.											
				Minor dissem py + AsPy in matrix of breccia (<1%) - post											
				breccia mineralization (?) or simply fragments of mineralized											
				vein.											
153.2	179.6			Chlorite Feldspar Schist											
				Chl + feldspar + epidote - weakly foliated - med. grd. original											
				texture still apparent - probably meta diabase?											
				Veins (a) hematite veins and fractures											
				(b) greenish epidote rich											
				(c) buff carbonate + qtz ( 1 cm - core axis 45°)											
				Rock is very broken; minor brecc. zone at 156 m.											
				Some rock 160-172 m - v. broken sections. Contains about 6 qtz	797		167.2	168.2		--	200	654	L.1	44	1
				veins with py and minor AsPy - best vein at 168 m.	798		178.9	179.9		--	240	3700	L.1	62	6



# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-5

SHEET NUMBER 6 OF 9

INTERVAL (METRES)				DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au	Au	As	Ag	Cu	Pb
							FROM	TO	WIDTH	g/t	ppb	ppm	ppm	ppm	ppm
				core axis = 15°, banded, 1 cm thick - only this vein sampled	799		179.9	181.9		1.5	1350	+5000	0.2	22	3
				- if it runs, rest should be sampled - foliation very weak but											
				hard to measure. At 179.9 m, greenschist becomes slightly altered and bleached.											
179.9	180.4			<u>Chlorite Schist</u> Greenschist is speckled with bleached bands, fairly numerous qtz + carb + py + AsPy veins, core axis of "bleach" banding = 70°.											
180.4	181.1			Qtz vein with dolomite AsPy and py. Some qtz as grey and smoky - sulphides along bands parallel to contacts.											
181.1	184.7			Bleached and alt greenschist shot thru with qtz + carb + AsPy + py + grey-black sulphide veins. Contact with vein at 181.1 is sharp (core axis = 75°). Rock consists of silica and musc and carb and py. Towards 184.7 core becomes greener in colour. Core axis of foliation is now close to 90°.	800		181.9	184.7		--	710	+5000	1.3	40	210
184.7	190.5			<u>Chlorite Fsp Schist</u> Barren grey qtz veins every 50 cm. Core axis to foliation = 75°. Note 8 mm qtz + carb + py vein at 189.4 (core axis = 32°). Note bleached margin of vein. Feld. xl tuff becomes paler in colour and grades into bleached variety.	750F		184.7	185.7	1.0	--	50	90	0.2	72	1
190.8	191.8			<u>Chlorite Fsp Schist</u> White to pale green, no pyrite. Grades into vert. unit over 15 cm.											
191.8	203.0			<u>Chlorite Schist</u> Qtz + calcite + py veins every 40-60 cm (2 mm - 8 mm) in fairly monotonous rock.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-5

 SHEET NUMBER 7 OF 9

INTERVAL (METRES)				DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
203.0	276.4			Chlorite Schist											
				Qtz segregs. and 1-2% py; thin hem + calcite veins. Occ. xl tuff intercalation (e.g. 214-215 m).											
				218.2-219.3 - Qtz vein breccia with clay matrix - some py and AsPy. Core axis = 83° - sample taken to see if there is still Au in system.	751F		218.2	219.3		3.2	3250	+5000	1.5	194	4
				Note occasional py stringer parallel to foliation at 228.6 m											
				1 cm dol + py + AsPy vein cuts qtz segregs parallel to foliation and bleaches greenschist to within 1 cm of contact, core axis of vein = 25°.											
				At 231.8 qtz + dol + AsPy + py vein - note banding - contacts sharp - may be at small angle to core axis (core broken).											
				232.3-233.7 - dol + qtz + minor py AsPy vein + assoc areas of brecciation. Vein - 3 cm max - appears parallel to core axis.	752F		231.7	232.3		1.6	1800	+5000	0.6	52	4
				233 - 250 - Fairly monotonous greenschist - occ. pyritic stringers parallel to foliation, occ. qtz + chl segreg. Mineralized veins 234-234.5 (core axis - 20° 5 cm; qtz, AsPy, graphite).	753F		233.7	234.7		3.5	3100	+5000	0.4	82	7
				244.0-244.5 (core axis - 20°, 10 cm, qtz, AsPy, py)											
				246.9-247.4 (core axis - 20°, 12 cm, qtz + carb + AsPy - greenschist is usually pyritic (dissem) at contacts of qtz veins.	754F		246.5	247.5		--	310	4800	0.1	22	2

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-5

SHEET NUMBER 8 OF 9

INTERVAL (METRES)				DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
				250-268 - occ. calc sections and qtz segregs: qtz + musc + carb bleached greenschist 252.5-253.5; 261.1-262.2 m, (core axis foliation = 80° at 266.4 m).											
				Thin (1 cm) qtz + calc + pyrite + AsPy vein at 266.4 (c/a 20°).											
				Minor (1-2%) f.gr. disse. py in bleached layer.											
				268-275.9 m - chlorite schist. Min (2 cm, parallel to core axis) vein at 269 m. Brecciated minor qtz with grey matrix - diss. py in matrix.	755F		268.5	270.5		1.1	1300	2900	0.2	32	7
					756F		270.5	272.5		--	50	780	L.1	20	1
					757F		274.9	276.4		--	140	940	L.1	20	1
276.4	277.5			<u>Qtz-Musc-Carbonate Schist</u> Gradational contacts - contains 5 veins qtz + AsPy (2-5 mm, core axis 35°). Contains 3-4% diss. py.	758F		276.4	277.5		--	130	1450	0.1	24	6
277.5	278.0			<u>Chlorite Schist</u> - with a few narrow qtz + cc veins											
278.0	281.0			<u>Qtz-Musc-Carbonate Schist</u> White to pale green, py dissems and stringers, gradational contacts with greenschist - AsPy thin veins (2-4 mm). Sometimes Qtz-musc-carb schist contacts with greenschist are sharp and marked by a vein of qtz + cc - the Qtz-musc-carb schist alteration affects only one side of the vein - the hangingwall side(?).	759F		279.0	281.0		--	50	820	L.1	6	2
281.0	284.9			<u>Chlorite Schist</u> Fairly uniform core axis = 35° - note change in core axis.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-5

 SHEET NUMBER 9 OF 9

INTERVAL (METRES)				DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
284.9	299.0			Qtz-Musc-Carbonate Schist	760F		287.3	288.3		--	140	1380	0.3	10	3
				Mottled greenschist and greenschist - mottled greenschist has	761F		291.0	293.0		--	760	180	0.3	8	2
				sausage shaped areas (2 cm x 0.5 cm) - may be dark red in places.	762F		293.0	295.0		--	170	10	L.1	4	1
				Note qtz segreggs (291.8-293 m).	763F		295.0	297.0		--	3-	60	0.1	6	3
				Note vein at 288.4 (core axis = 10° - strike 0-65° depending on	764F		297.0	299.0		--	20	20	0.1	6	1
				az. of hole, dip 70° N to NW - qtz + banded AsPy + py; 1-2 cm											
				wide, core axis to foliation = 65°).											
				Vein at 292.6 - 2 cm - qtz + py + AsPy, core axis = 10-15° -											
				bleached rocks in vicinity of vein contain 5% py.											
				Broken rock 295.7 to 296.2											
				Gradational contact with Qtz-Musc-Carbonate at 299 m.											
299.0	314.9			Qtz-Muscovite-Carbonate Schist											
				Grey to white, well foliated, 2-10% py, 60° core axis at 307 m.	765F		299.0	301.0		--	180	670	0.2	10	5
				Note qtz + dol + AsPy + cpy + py veins fairly evenly distributed	766F		301.0	303.0		--	170	3800	0.3	30	3
				- av. spacing 8-20 cm, core axis - average - 30°.	767F		303.0	305.0		--	210	2600	0.1	52	3
				Note area of brecciated qtz-musc-carbonate schist with dark	768F		305.0	307.0		--	300	1500	0.1	38	3
				pyrite-bearing matrix - no greenschist inclusions.	769F		307.0	309.0		--	30	120	0.1	52	3
				Qtz + AsPy vein 301.1-301.8	770F		309.0	311.0		--	30	1000	L.1	42	2
					771F		311.0	313.0		--	410	1850	0.2	36	3
					772F		313.0	314.9		--	100	4500	0.2	78	2
				END OF HOLE											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

DRILLED BY: D. W. Coates Enterprises Ltd.

DRILL TYPE: Longyear 38 LENGTH: 214.58

CLAIM: BILL 3 DIP: -45°

LATITUDE: 5+00S (4812.5N) DEPARTURE: 2+70W (5021.9E)

ELEVATION: 1810 m (1814.2) AZIMUTH: 0°

HOLE STARTED: 1984 July 29 HOLE COMPLETED: 1984 July 31

ACID &/OR TRO - PARI TESTS					
DEPTH	DIP	AZIMUTH	DEPTH	DIP	AZIMUTH
62.8	47°				
123.7	-57°	004			
190.8	-63°				
214.6	-65°	N25W			

SHEET No. 1 OF: 6  
 HOLE NUMBER: B84-6  
 PROPERTY: BILL  
 ACCOUNT No.: 361-00  
 CORE SIZE: NQWL  
 % CORE RECOVERY: \_\_\_\_\_  
 LOGGED BY: J.M. Kowalchuk

INTERVAL (METRES)				DESCRIPTION	SAMPLE						ASSAYS				
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
0	17.1			Overburden - Casing											
17.1	18.2			Qtz-Chl Vein											
				Brecciated - chl schist - mostly Qtz vein. Trace py - qtz mostly barren.											
18.2	23.6			Greenstone-Chlorite-Fsp Schist	773F	1%	22.2	23.6	1.4	--	690	3700	L.1	26	2
				Well foliated with rusty carbonate bands along foliation planes dark green.											
				A few Qtz-carb veins running parallel to foliation.											
				Foliation 40° to core axis. Parts of core has foliation at 25° to core axis - rock a little more sheared.											
				22.8 - 1 cm vein --110°/60N cont. AsPy --15° to core axis.											
				23.0 - large Qtz carb vein cont. tr. AsPy.											
23.6	37.8			Qtz-Musc-Carbonate Schist											
				Rusty weathering veins well foliated. Pale brown colour → buff.	774F		23.6	26.2	2.6	--	120	1650	L.1	16	1
				Gouged in places - some kink folds.	775F		26.2	28.2	2.0						
				Several narrow calcite stringers parallel to core axis.	776F		28.2	30.2	2.0	--	360	420	L.1	14	1
				Foliation is 45° to core axis.	777F		30.2	32.2	2.0	--	180	170	L.1	12	1
				Veinlets --15° to core axis.	778F		32.2	34.2	2.0	--	10	390	L.1	16	1

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-6

 SHEET NUMBER 2 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au	Au	As	Ag	Cu	Pb
							FROM	TO	WIDTH	g/t	ppb	ppm	ppm	ppm	ppm
				36.0-37.8 - transition zone with greenstone below - well foliated, light green rock with occasional sericite sections.	779F		34.2	35.8	1.6	--	25	140	L.1	12	1
37.8	57.5			<u>Greenstone-calcareous chl - schist</u> Contains up to 5% calcite. Very occasional qtz segregations along foliation. Few qtz-calcite veins --15° to core axis. Foliation 55° to core axis. Dark green colour.											
				45.0-46.5 - Slightly bleached chl. schist - very fractured - containing some qtz veining. Some calcite and carb veins along foliation planes. Some py diss. along foliation planes. Qtz vein 75° to core axis.											
57.5	68.3			<u>Greenstone-chlorite schist</u> Extensive qtz segregations along foliation. Small amount of calcite along with qtz veins - trace Py. Occasional barren qtz-carb. veins 20° to core axis. Foliation 60° to core axis - small fractured sections run at 45° to core axis. Increase in qtz veining approaching the contact.											
68.3	73.5			<u>Chlorite-carbonate schist</u> Extensive ankerite min. along foliation planes. Rock quite broken and coarse grained.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-6

SHEET NUMBER 3 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
73.5	82.1			Qtz-Musc-Carbonate Schist											
				Core quite rusty and grey coloured, extensive qtz segregations along foliation planes.	786F	tr.	73.5	75.5	2.0	--	25	50	L.1	34	1
				Brecciated in places. Core totally broken.	787F	tr.	75.5	77.5	2.0	--	50	50	L.1	52	1
				Foliation kinked and contorted in places to 25° to core axis.	788F	tr.	77.5	79.5	2.0	--	30	20	L.1	22	1
				Normal foliation at 60°.	789F	tr.	79.5	81.8	2.3	--	20	10	L.1	22	1
				Some places core contorted such that foliation parallel to core axis.											
				Some disseminated py and AsPy, only a trace.											
				81.4 - Qtz-AsPy vein 100°/90											
82.1	98.0			Greenstone-calcareous chl. schist											
				A few calcareous veinlets parallel to foliation. Weakly foliated with calcite partings along foliation planes.	790F	tr.	87.2	87.5	0.3	1.75	1900	50	L.1	34	1
				Foliation 75° to core axis.	791F	tr.	90.2	92.0	1.8	--	60	120	L.1	10	1
				Occasional qtz segregations.	792F	tr.	94.3	94.7	0.4	--	90	10	L.1	10	1
				87.4 - 0.5 cm qtz-AsPy vein, 100°/90.	793F	tr.	98.7	100.0	1.3	--	960	3100	L.1	30	2
				91.7 - 6 qtz-AsPy-Py veinlets - 100°/80°N	794F	tr.	101.0	102.0	2.0	--	60	40	L.1	12	2
				94.5 - 5 cm qtz carb vein cont. some AsPy.											
98.0	100.0			Bleached zone											
				98.8 - 2.5 cm mixture of qtz-carb-AsPy veins cont. visible gold, biotite and sericite alteration 100 cm either side of system.											
100.0	106.0			Greenstone-Chlorite-Fsp Schist											
				Foliation 80° to core axis. Foliation quite weak.											
				No quartz segregations.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-6

 SHEET NUMBER 4 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au	Au	As	Ag	Cu	Pb
							FROM	TO	WIDTH	g/t	pph	ppm	ppm	ppm	ppm
106.0	109.0				795F		108.0	108.5	0.5	4.2	3900	4600	L.1	30	2
109.0	118.6														
					796F		111.6	113.6	2.0	--	350	1150	L.1	16	1
					797F		114.6	116.6	2.0	1.3	1330	2300	L.1	22	1
					798F		116.6	118.6	2.0	--	530	3000	L.1	16	1
118.6	133.5														
					799F		118.6	120.7	2.1	--	460	+5000	0.2	44	9
					5600E		131.1	132.3	1.2	--	35	530	L.1	32	1
133.5	139.0														
					5601E		133.5	135.5	2.0	--	30	360	0.1	26	4
					5602E		135.5	137.5	2.0	--	40	2300	L.1	28	1
					5603E		137.5	139.6	2.1	--	40	2400	0.2	28	2



# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-6

 SHEET NUMBER 5 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
139.0	140.8			Chl. Schist with extensive qtz segregations parallel to foliation and extensive qtz flooding.											
140.8	143.0			Calcareous chlorite schist Extensive calcite in vein and cross fractures, dark green colour. Foliation 80° to core axis. Calcite veining.											
143.0	168.5			Chlorite Schist Few qtz segregations. Dark green colour. Foliation 80° to core axis. Occasional calcite veins --60 and 20° to core axis. Occasional qtz AsPy veins at 25° to core axis. All AsPy veins striking about 90-120°. 159.4 - Qtz AsPy vein - extensive bleaching and alteration above it with biotite zoning towards musc as one approaches the vein. Vein is striking 180 and dipping at about 70° to the south. Vein is 0.5 cm thick. 171.5 - 10 cm Qtz-Py-AsPy vein, 20° to core axis - altered musc qtz rich rock. Foliation 80° to core axis.	5604E		145.7	146.6	0.9	--	60	2800	L.1	30	2
					5605E		159.2	159.5	0.3	--	40	880	L.1	24	1
168.5	183.0			Calcareous Chlorite Schist Foliation 80° to core axis. Weakly foliated - slightly crystalline, possibly Fsp rich. Some biotite-rich bands of alteration which cut across foliation. Calcite veins form segregations and small veinlets.	5606E		170.5	172.5	2.0	--	30	3200	L.1	16	1



# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

DRILLED BY: D.W. Coates Enterprises Ltd.  
 DRILL TYPE: Longyear 38 LENGTH: 160.3  
 CLAIM: BILL 3 DIP: -60°  
 LATITUDE: 4+00S (4931.1N) DEPARTURE: 3+25W (4978.2E)  
 ELEVATION: 1840 (1881.8) AZIMUTH: 180.00  
 HOLE STARTED: 1984 August 1 HOLE COMPLETED: 1984 August 3

ACID &/OR TRO-PARI TESTS					
DEPTH	DIP	AZIMUTH	DEPTH	DIP	AZIMUTH
0	-60	180			
81.08	-73	178			
157.28	82	230			

SHEET No. 1 OF: 6  
 HOLE NUMBER: B84-7  
 PROPERTY: BILL  
 ACCOUNT No.: 361-00  
 CORE SIZE: NQWL  
 % CORE RECOVERY: \_\_\_\_\_  
 LOGGED BY: J. M. Kowalchuk

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
0	12.2														
12.2	46.3														
					5609E		20.5	22.5	2.0	--	25	2300	L.1	16	4
					5610E		22.5	24.5	2.0	--	30	1400	L.1	14	3
					5611E		24.5	26.5	2.0	--	40	2100	L.1	16	2
					5612E		26.5	28.5	2.0	--	25	640	L.1	12	1
					5616E		31.3	32.3	1.0	2.1	1800	4600	28.0	1550	4
					5617E		32.3	35.2	2.9	--	270	3200	1.1	102	9
					5618E		39.9	41.9	2.0	--	430	3900	0.1	16	2

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-7

 SHEET NUMBER 2 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M.)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
				34.7-35.2 - 10 cm Qtz-AsPy vein 130/35 surrounded by QMC alteration.											
				In intermediate places between highly sheared sections grain size becomes finer and foliation is not as apparent. In these places foliation 60° to core axis. Near veinlets shearing becomes more apparent and foliation becomes shallower to core axis.											
				40.6 - veinlet 120°/70°N (-30° to core axis). Foliation - 50° to core axis.											
46.3	50.0			<u>Calcareous chlorite schist</u> Well foliated - 10% Ct diss as well as along foliation planes. Foliation 35° to core axis.											
				47.6 - 5 cm qtz vein 90°/45°N cont. AsPy & Py, 65° to core axis.											
50.0	55.6			<u>Chl. Schist</u> Abundant qtz segregations. Some carbonate within these qtz veins Foliation 30° to core axis. Qtz veins are chlorite rich.											
55.6	60.1			<u>Calcareous Chl. Schist</u> Well foliated. Calcite along foliation planes. Foliation 45° to core axis. A few calcareous veinlets 10° to core axis. Lower sections contain abundant ankerite along foliation planes. Foliation 60° to core axis.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-7

 SHEET NUMBER 3 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
60.1	61.4			Bleached Qtz-Musc-Carbonate Schist											
				Buff coloured, extensive ankerite alteration. Qtz segregations along foliation planes.											
				Foliation - 45° to core axis.											
				No apparent sulphides.											
61.4	71.9			Chlorite-Fsp Schist											
				No qtz segregations, well foliated.	5619E	tr.	65.8	66.1	0.3	21.1	+10000	+5000	0.8	98	15
				Occasional crystalline sections. Few calcite veinlets and calcite segregations.											
				58.1 - Fr. at 132°/70											
				65.9 - AsPy Bx - 5 cm across, 110/60N and 110/74°N.											
				Some epidote along foliation planes.											
71.9	91.1			Calcareous Chlorite Schist											
				Calcite along foliation planes as well as in fracture fillings.	5620E	tr.	72.8	73.1	0.3	1.6	1700	+5000	0.1	24	1
				73.0 - 5 cm Qtz-AsPy vein, 155°/52°E.											
				Foliation - 50° to core axis.											
				Occasional calc veinlets at 20° to core axis. Well foliated.											
				Calcareous segregations along foliation planes.											
91.1	93.3			Chlorite schist	5621E		91.1	93.1	2.0	1.5	1410	+5000	L.1	14	1
				Carbonated - slightly bleached. Extensive.											
				Qtz,Py,AsPy veining -45° to core axis. Foliation - 45° to core axis.											
				92.2-93.0 - Qtz-AsPy-Py vein running 105-115°/70°N.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-7

SHEET NUMBER 4 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M.)			Au	Au	As	Ag	Cu	Pb
							FROM	TO	WIDTH	g/t	ppb	ppm	ppm	ppm	ppm
93.3	111.8			Chlorite Schist	5622E		93.1	95.1	2.0	--	180	2600	0.1	14	1
				Well foliated - epidote rich. Fine grained. Dark-pale green.	5623E		95.1	97.1	2.0	1.6	1650	3100	0.4	44	1
				Extensive epidote alteration. Occasional Qtz segregations.	5624E		97.1	99.1	2.0	--	940	+5000	0.2	52	1
				Several Qtz-AsPy veins running 20-30° to core axis.	5625E		102.3	104.3	2.0	5.0	5500	4600	0.5	52	1
				97.3-97.7 - Qtz carb AsPy vein, running at 20° to core axis.											
				98.0 - 1 cm Qtz AsPy vein running 10° to core axis.											
				96.0-96.3 - 1 cm Qtz-AsPy-calcite vein running 25° to core axis.											
				102.4 - 1 cm Qtz-carb vein cont. AsPy + Py - 20° to core axis.											
				103.4-103.9 - Qtz-AsPy-Py vein, 20° to core axis - contains abundant calc.											
				108.5-110.0 - Calcareous section.											
111.8	121.5			Chlorite Schist	5626E		111.8	113.3	1.5	15.5	+10000	+5000	0.3	18	1
				Carbonate in foliation planes, some ankerite - low epidote.	5627E		113.3	114.9	1.6	--	520	4400	0.2	12	1
				Extensive Qtz-Carb-AsPy veining 20° to core axis and sub parallel to core axis.	5628E		115.4	117.2	1.8	--	380	+5000	0.2	22	1
				111.8-113.4 - extensive Qtz carb veins cont. AsPy.											
				113.4-114.8 - 2 - 1 cm Qtz veins subparallel to core axis.											
				115.4-117.2 - extensive Qtz veining subparallel to core axis containing abundant AsPy.											
121.5	123.0			Quartz-Msc-Carbonate Schist	5629E	1%	121.5	123.0	1.5	--	160	2350	0.2	20	1
				Extensive Qtz-Py-AsPy veining running subparallel to core axis.											
				122.2 - vein running 120°/65 S, 25° to core axis.											
				Foliation 50° to core axis.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-7

SHEET NUMBER 5 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au	Au	As	Ag	Cu	Pb
							FROM	TO	WIDTH	g/t	ppb	ppm	ppm	ppm	ppm
123.0	129.2			Chlorite Schist											
				Extensive qtz segregations, well foliated. Foliation 50° to core axis.	5630E	tr.	125.2	127.2	2.0	--	660	490	0.2	22	3
				Qtz segregations contain diss Py and chlorite.	5631E	1%	127.2	129.2	2.0	6.5	5400	4500	0.2	22	26
				Occasional narrow Qtz-Py-AsPy veins running at 15° to core axis.											
				127.5 -120°/70S											
				129.2 -100°/85N											
129.2	138.8			Chlorite Schist											
				Few qtz segregations, well foliated, chlorite-rich rock. Dark green colour. Occasional calcareous segregations and calcareous veins 20° to core axis. Foliation 55° to core axis.											
				Some minor epidote alteration and possibly minor ankerite.											
				132.5 - qtz vein parallel to core axis with 20 cm epidote-hematite envelope.											
138.8	143.3			Chlorite Schist											
				Abundant Qtz-chl segregations. Foliation is well established. Foliation varies from 25° to 60° to core axis. Several qtz-carb veins at 30° to core axis and 45° to core axis.											
143.3	144.5			Quartz-Musc-Carbonate Schist	5632E	tr.	143.3	144.5	1.2	--	L5	30	L.1	26	1
				Well foliated. 50° to core axis. Qtz segregations parallel to foliation plane. No apparent qtz veining or sulphides.											
144.5	149.1			Chlorite Schist											
				Abundant qtz segregations. Foliation varies from 30-50° to core axis. Few sulphides - no apparent AsPy rich veining.											





# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

DRILLED BY: D.W. Coates Enterprises Ltd.

DRILL TYPE: Longyear 38 LENGTH: 186.84

CLAIM: BILL 3 DIP: -45°

LATITUDE: 6+25S (4681.2N) DEPARTURE: 1+90W (5106.85E)

ELEVATION: 1732 m (1737.9) AZIMUTH: 0+00

HOLE STARTED: August 4, 1984 HOLE COMPLETED: August 6, 1984

ACID &/OR TRO - PARI TESTS					
DEPTH	DIP	AZIMUTH	DEPTH	DIP	AZIMUTH
0	-45	0			
63.8	-50	0			
124.8	-56	N04W			
185.8	-58	N23E			

SHEET No. 1 OF: 6

HOLE NUMBER: B84-8

PROPERTY: BILL

ACCOUNT No.: 361-00

CORE SIZE: NQWL

% CORE RECOVERY:

LOGGED BY: J.M. Kowalchuk

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M.)			Au	Au	As	Ag	Cu	Pb
							FROM	TO	WIDTH	g/t	ppb	ppm	ppm	ppm	ppm
0	9.5			Overburden - Casing.											
9.5	26.2			Chlorite Schist											
				Extensive Qtz seg. Foliation quite contorted - several Qtz AsPy veins with adjacent bleached envelopes.	5636		9.7	11.9	2.2	--	230	2500	1.2	46	270
				Foliation varies from 15° to core axis to 55° to core axis.	5637		11.9	13.9	2.0	--	640	2400	0.1	14	14
				14.6 - 20 cm of Qtz AsPy veining, 50° to core axis.	5638		13.9	16.1	2.2	--	390	+5000	0.1	28	10
				11.9 - Qtz AsPy vein.	5639		16.1	18.2	2.1	1.9	1500	3900	0.4	68	8
				18.0 - Qtz AsPy vein, -40° to core axis.											
				No measurements possible on veins. Core is extremely sheared and broken with poor recovery.											
				23.5 - foliation - 20° to core axis.											
26.2	28.2			Chlorite Fsp Schist											
				Very contorted with foliation subparallel to core axis.											
28.2	31.9			Chlorite Schist											
				No Qtz segregations. Slightly foliated 60° to core axis.	5640		29.0	31.9	2.9	--	530	3300	0.1	22	3
				Minor Qtz veining cont. AsPy. Core very broken. Some musc alt. around veins.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-8

SHEET NUMBER 2 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/r	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
31.9	38.0			Qtz-Musc-Carb Schist	5641		31.9	33.9	2.0	24.8	+10000	3000	0.1	24	4
				Contains extensive Qtz veining at hanging and footwalls.	5642		33.9	36.1	2.2	2.35	2200	2350	0.1	22	3
				Qtz veins cont. AsPy and Py, very broken core cont. much gouge.	5643		36.1	38.0	1.9	--	40	50	0.1	18	1
38.0	46.3			Chlorite Schist											
				Well foliated. Few Qtz segregations. Foliation 50° to core axis.											
				41.1 - 10 cm Qtz Chl vein subparallel to foliation.											
				Core still slightly broken.											
46.3	51.5			Fault Zone	5647		46.3	48.2	1.9	--	120	2750	1.1	26	7
				Very broken extensive fault gouge. Occasional veining.	5648		48.2	50.6	2.4	4.5	3900	+5000	3.0	36	142
				Generally the above chlorite schist, very poor core recovery.	5649		50.6	52.6	2.0	--	80	720	0.3	40	1
51.5	61.7			Chlorite Schist											
				Extensive Qtz segregations, chlorite within Qtz segregations.											
				Rock in places is quite broken. Dark green rock.											
				Foliation 50° to core axis.											
				58.2-61.7 - Quite broken along foliation planes.											
				52.0 - Qtz-AsPy vein, 100/85S, -40° to core axis.											
61.7	67.8			Qtz-Musc-Carbonate-Chlorite Schist											
				Well foliated. Foliation - 50° to core axis.	5650		61.7	63.7	2.0	--	40	170	L.1	14	1
				64.5 - Qtz-AsPy-Py veining < 1 cm, 110/85S, -25° to core axis.	5651		63.7	65.7	2.0	2.9	2300	2050	0.1	16	1
				Extensive veining and Qtz-carb segregations. Some black chlorite along some fr. planes. Lower section very fractured - some grey breccia.	5652		65.7	67.8	2.1	--	80	290	L.1	14	1

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-8

SHEET NUMBER 3 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
67.8	69.8			Chlorite schist											
				Numerous Qtz-carb segregations - extensive chlorite in foliation, very well foliated, green and white banded rock.											
				Foliation varies from 35° on hangingwall to 60° on footwall.											
69.8	73.4			Chlorite Fsp Schist											
				Very porphyritic with Fsp phenocrysts, possibly originally a crystal tuff. Reasonably foliated at 55° to core axis.	5653		71.5	71.9	0.4	--	550	370	L.1	22	1
				71.7 - 0.5 cm Qtz-AsPy vein - 35° to core axis - 120°/90.	5654		72.5	72.8	0.3	--	40	500	0.1	20	1
				72.7 - 2 parallel 0.5 cm Qtz-AsPy veins, 30° to core axis - 120°/90.											
				Some chlorite filled shearing from 71.9-72.5.											
73.4	77.4			Chlorite schist											
				Very broken with fault gouge at 77.0. Very poor recovery - some Qtz carb veining in faulted section.											
77.4	79.4			Chlorite-Fsp Schist											
				Sheared with strong foliation 45° to core axis. White Fsp crystals aligned along foliation planes.											
				78.7-79.1 - chlorite fault gouge containing barren Qtz-Chl veining.											
79.4	86.0			Chlorite Schist											
				Numerous qtz carbonate segregations. Rocks are well foliated at 55° to core axis.											
				84.1-85.0 - Altered zone. Qtz-musc-schist containing extensive narrow AsPy veins, 120°/50N, -40° to core axis.	5655		84.1	85.0	0.9	--	360	4700	0.2	10	51

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-8

 SHEET NUMBER 4 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M.)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
86.0	124.0			Chlorite Fsp Schist											
				Well foliated - barren. Foliation 60° to core axis.											
				95.9- 99.4 - Broken and gouged core - minor shearing parallel to foliation.											
				Foliation 55° to core axis.											
				104 - 107.6 - Minor broken and gouged core. Foliation 55° to core axis.											
				109.5-112.6 - Several small calcareous veinlets -30° to core axis. Foliation 60° to core axis.											
				110.0-112.6 - Occasional narrow Qtz-Ca-AsPy veinlets -30° to core axis.	5656		110.0	112.6	2.6	--	10	40	L.1	12	2
				axis.											
				112.6 - Qtz vein is 10 cm across.											
124.0	125.4			Qtz-Musc-Carbonate Schist											
				Extensive biotite mineralization as well as some minor chlorite in footwall.											
				No qtz veining worth sampling. Just a bleached zone.											
				No sulphide mineralization observed.											
				Foliation 50° to core axis.											
125.4	127.2			Chlorite-Fsp Schist											
				Well foliated. Minor qtz carbonate veining. Hematite in bottom 20 cm.											
127.2	132.6			Qtz-Musc-Carbonate-Biotite Schist											
				Mostly bleached and altered. Not much in the way of qtz veining.											
				128.2-130.0 - Chlorite schist.											
				131.2-132.0 - Broken and sheared - some ground up core.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-8

 SHEET NUMBER 5 OF 6

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M.)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
132.6	135.5			Chlorite-Fsp Schist											
				Well foliated - 30% Fsp. Foliation 65° to core axis.											
				Extensive black chlorite along fractures.											
135.5	139.6			Chlorite Schist											
				Extensive Qtz segregations. Some minor calcite veinlets along foliation planes.											
139.6	160.8			Qtz-Fsp Schist											
				Well foliated, 65° to core axis.											
				141.5-143.0 - Occasional chlorite blebs.											
160.8	163.7			Diabase Dyke											
				Fine to medium grained, dark grey colour. White Fsp and black Hbld phenocrysts. Several fine calcite filled fractures at -45°											
				to core axis. No mineralization.											
				Dyke contact at -30° to core axis. Sample for dating taken at 163.											
163.7	168.0			Chlorite Schist											
				No Qtz segregations.											
				163.3 - Qtz-AsPy dyke. 10 cm thick -25° to core axis, 030°/90.	5657		163.3	163.8	0.5	--	40	130	L.1	10	2
				Goes from green to a dark green colour.											
				Fine grained. Occasional calcite veins cutting across foliation.											
168.0	169.4			Chlorite Schist											
				Shattered. Some grey alteration. Significant chlorite and carb.	5658		168.0	169.4	1.4	2.2	2000	1600	L.1	6	1
				along fractures. Some AsPy along fractures.											



# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

DRILLED BY: D. W. Coates Enterprises Ltd.  
 DRILL TYPE: Longyear 38 LENGTH: 165.8  
 CLAIM: BILL 2 DIP: -45°  
 LATITUDE: 5+00S (4876.5N) DEPARTURE: 7+50W (4544.6E)  
 ELEVATION: 1802 (1815.2) AZIMUTH: 000  
 HOLE STARTED: 1984 August 7 HOLE COMPLETED: 1984 August 9

ACID &/OR TRO-PARI TESTS					
DEPTH	DIP	AZIMUTH	DEPTH	DIP	AZIMUTH
0	-45	000			
76.2	-52	000			
165.8	-58	356			

SHEET No. 1 OF: 5  
 HOLE NUMBER: B84-9  
 PROPERTY: BILL  
 ACCOUNT No.: 361-00  
 CORE SIZE: NOWL  
 % CORE RECOVERY: \_\_\_\_\_  
 LOGGED BY: J. M. Kowalchuk

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M.)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
0	18.9														
18.9	36.0														
					5662	tr.	18.9	20.9	2.0	--	L.5	220	L.1	30	1
					5663	tr.	20.9	22.9	2.0	--	5	130	L.1	20	1
					5664	tr.	22.9	24.9	2.0	--	10	140	L.1	52	1
					5665	tr.	24.9	26.9	2.0	--	20	290	L.1	26	1
					5666	tr.	26.9	28.9	2.0	--	L5	80	L.1	20	9
					5667	tr.	28.9	30.9	2.0	--	20	90	L.1	26	1
					5668	tr.	30.9	32.9	2.0	--	20	60	L.1	28	1
					5669	tr.	32.9	34.9	2.0	--	5	30	L.1	40	1
					5670	tr.	34.9	36.9	2.0	--	30	170	L.1	40	1
36.0	46.2														
					5671		36.9	38.9	2.0	--	250	470	L.1	40	1
					5672		38.9	40.9	2.0	--	20	240	L.1	44	1
					5685		40.9	42.9	2.0	--	70	570	0.3	22	18

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-9

 SHEET NUMBER 2 OF 5

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au	Au	As	Ag	Cu	Pb
							FROM	TO	WIDTH	g/r	ppb	ppm	ppm	ppm	ppm
					5686		42.9	44.9	2.0	--	410	+5000	0.2	26	8
					5687		44.9	46.9	2.0	--	640	5000	L.1	20	5
46.2	56.9				5688		46.9	48.9	2.0	--	110	340	L.1	32	3
					5689		48.9	50.9	2.0	--	290	1700	0.1	152	4
					5690		50.9	52.9	2.0	--	80	760	0.2	30	11
					5691		52.9	54.9	2.0	--	30	1100	L.1	18	12
					5692		54.9	56.9	2.0	--	20	510	0.1	44	12
56.9	77.9														
77.9	80.8														



# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B84-9

SHEET NUMBER 3 OF 5

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
80.8	91.1			Chlorite Schist	5693		79.6	81.6	2.0	--	20	580	0.1	76	5
				Few qtz segregations. Contact with above Musc Schist is	5694		81.6	83.6	2.0	--	15	40	L.1	122	2
				gradational.	5695		83.6	85.6	2.0	--	450	4800	1.1	68	26
				Poorly foliated 55° to core axis.	5696		85.6	87.6	2.0	--	15	40	L.1	120	1
				Several narrow qtz-AsPy veins running -25° to core axis.	5697		87.6	89.6	2.0	--	840	4300	1.7	50	310
				86.3-86.8 - Several veins - one 5 cm thick.	5698		89.6	91.1	1.5	--	10	230	0.2	38	12
				87.6-88.1 - Altered zone containing 10 cm Qtz-AsPy vein 70° to											
				core axis.											
				These two veins also contain graphite clots.											
				88.7 m - 100-75S - 2-5 cm Qtz-AsPy veins.											
91.1	93.3			Qtz-Musc-Carbonate Schist											
				Contains 0.5% AsPy and 1% Py in veinlets - also some clots of	5699		91.1	93.3	2.2	--	960	+5000	0.2	44	21
				graphite.											
93.3	96.8			Chlorite Schist											
				Numerous qtz segregations. Dk green colour - well banded and	5450		93.3	95.9	2.6	--	120	2100	0.5	120	17
				foliated. Foliation 55° to core axis. Narrow 5 mm Qtz-AsPy											
				veins every 10-20 cm at -40° to core axis, orientation 100-80S.											
96.8	104.3			Qtz-Musc-Carbonate Schist											
				Light grey to pink rock - well banded. Pink colour due to biotite											
				rich bands. Several narrow Qtz AsPy veins running -40° to core	5451		96.8	98.8	2.0	--	15	80	L.1	12	7
				axis, well foliated, 50° to core axis.	5452		98.8	100.8	2.0	--	740	5000	0.2	66	16
				96.8-97.2 - large Qtz-carb-AsPy Py vein - approx. 90° to core	5453		100.8	102.8	2.0	--	30	10	L.1	2	2
				axis.											
				102-104.3 - biotite rich section, pink coloured - may be some											
				hematite.											

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B84-9

 SHEET NUMBER 4 OF 5

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (M)			Au g/t	Au ppb	As ppm	Ag ppm	Cu ppm	Pb ppm
							FROM	TO	WIDTH						
104.3	111.9			<u>Chlorite Schist</u>											
				No Qtz segregations. Dark green colour. Poorly foliated 70° to core axis. A few Qtz-AsPy veins at 15° to core axis.	5454	0.5	104.6	107.0	2.4	--	5	10	L.1	50	1
				108.4 - 1 cm Qtz AsPy-Py vein orientation 100/75S -30° to core axis.	5455	0.5	108.2	108.5	0.3	--	10	10	L.1	126	1
111.9	125.5			<u>Qtz-Musc-Carbonate Schist</u>	5456	0.5	111.6	113.6	2.0	--	210	2250	0.1	6	8
				Containing numerous Qtz veins 0.5-1 cm across at various angles primarily -25° to core axis.	5457	0.5	113.6	115.6	2.0	1.9	2700	5000	0.9	34	52
				Rock is light grey to buff coloured with a few pink hematite-rich zones.	5458	0.5	115.6	117.6	2.0	--	220	2000	L.1	6	12
					5459	0.5	117.6	119.6	2.0	--	160	1550	L.1	4	2
					5460	0.5	119.6	121.6	2.0	--	40	480	L.1	10	8
					5461	0.5	121.6	123.6	2.0	--	10	530	L.1	4	3
					5462	0.5	123.6	125.5	1.9	--	10	130	L.1	4	1
125.5	127.7			<u>Chlorite Schist</u>											
				Well foliated. Foliation 75° to core axis. A few Qtz carb veins cont. AsPy. Some barren carbonate veins.	5463	tr.	125.5	127.0	1.5	--	20	80	L.1	4	1
127.7	131.6			<u>Chlorite Schist</u>											
				Contains numerous qtz segregations. Some pink and white carb. patches within foliation planes.											
				Biotite rich near footwall.											
131.6	145.0			<u>Qtz-Musc-Carbonate Schist</u>											
				Well foliated, 80° to core axis. Few Qtz-AsPy veins.	5464		131.6	133.6	2.0	--	170	110	L.1	4	1
				138.6 - Rock is quite biotite-rich and slightly chloritic.	5465		142.1	144.5	2.4	--	L5	10	L.1	8	2
				Core is relatively barren.											



APPENDIX C

1983 DIAMOND DRILL LOGS (RELOGS)

RELOG

**DRILL HOLE RECORD****DU PONT OF CANADA EXPLORATION LIMITED**

QMC = Quartz-muscovite-carbonate

HOLE NUMBER: B83-1SHEET NUMBER 1 OF 2

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (METRES)						
							FROM	TO	WIDTH	RCVRY			
0	4.8			Overburden.									
4.8	32.3			Chlorite-feldspar schist - crystal stuff - ankerite along foliation planes.									
32.3	36.5			QMC schist.									
36.5	43.0			Chlorite schist, no quartz seg.									
43.0	45.8			Calcareous chlorite schist.									
45.8	49.3			Chlorite bleb schist.									
49.3	53.2			Calcareous chlorite schist.									
53.2	67.0			Chlorite bleb schist.									
67.0	69.3			Chlorite schist - no quartz seg.									
69.3	75.0			Chlorite schist - abundant qtz seg.									
75.0	96.42			Chlorite schist - no quartz seg. 80.5 - 81.5 - qtz-musc-carbonate schist with pyrite and AsPy veinlets. - slight increase in qtz segregations near foot of section.									
96.48	113.1			Qtz-musc-carbonate schist, extensive ankerite mineralization, extensive Qtz=AsPy veining on hanging wall - buff weathering.									
113.1	117.5			Bleached and sericitized dyke - no mineralization.									
117.5	131.0			Grey weathering Qtz-musc-carbonate schist - low ankerite, extensive white talc or clay.									
131.0	138.0			Buff weathering, ankerite rich, Qtz-musc-carbonate schist, some qtz veining containing As Py and sulphosat.									
138.0	146.0			Slightly chloritic qtz-musc schist containing some ankerite, extensive qtz segregations.									



RELOG

**DRILL HOLE RECORD****DU PONT OF CANADA EXPLORATION LIMITED**HOLE NUMBER: B83-2SHEET NUMBER 1 OF 2

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS										
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (METRES)												
							FROM	TO	WIDTH	RCVRY									
0	4.8			Overburden.															
4.8	15			Qtz-musc schist - minor chlorite, heavily sheared parallel to core axis.															
15	22.6			Chlorite FSP schist, few Qtz veins.															
22.6	25			Fault zone - broken rusty core.															
25	29.3			Chlorite schist, no Qtz seg.															
29.3	35.8			Qtz musc - ankerite schist. Several Qtz As Py veins parallel to core axis.															
35.8	47.5			Chlorite schist, no Qtz seg. Several Qtz As Py veins parallel to core axis. 35.8 - 39.6 - Very broken and rusty core.															
47.5	56.0			Qtz musc schist Several Qtz veins containing AsPy. 52.3 - 53.7 Fault zone - rusty and broken.															
56.0	84.5			Chlorite schist - no Qtz segregations, few feldspathic zones near top, narrow Qtz As Py veins subparallel to core axis. 74.2 - 74.6 - Large Qtz Py-AsPy vein.															
84.5	88			Chlorite schist, several Qtz segregations.															
88	106			Qtz-musc-carbonate schist. 92.8 - 95.2 - Qtz vein containing As Py and Py.															
106	110			Chlorite schist - numerous Qtz seg.															
110	117.3			Qtz musc schist 112.5 - barren Qtz vein 20 cm across, above that Qtz-AsPy vein parallel to core axis - ½ cm across.															
				111.0 - 30 cm fault zone.															





RELOG

**DRILL HOLE RECORD****DU PONT OF CANADA EXPLORATION LIMITED**HOLE NUMBER: B83-3SHEET NUMBER 1 OF 2

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (METRES)						
							FROM	TO	WIDTH	RCVRY			
0	2.4			Overburden.									
2.4	9.8			Qtz-musc-carbonate schist.									
				2.4 - 5.0 - Broken rusty rock.									
				Few Qtz veins in ser. schist - trace Py and AsPy.									
9.8	33.8			Qtz FSP schist - coarse grained.									
				Few calcite veins containing Py.									
33.8	36.2			Diabase dyke - few Py filled fractures, chilled lower contact.									
36.2	41.4			Qtz-FSP dyke									
				Coarse grained massive.									
41.4	55.9			Qtz-musc-carbonate schist. No Qtz AsPy veins.									
55.9	58.7			Fault zone - broken and gouged core. No Qtz observed.									
58.7	72.5			Qtz-musc-carbonate schist. Very few Qtz-AsPy observed.									
				Rusty. Footwall has a few Qtz carb. veins parallel to core axis.									
72.5	86.9			Chlorite schist - no Qtz segregations. Almost no veining of any type.									
86.9	98.5			Bleached FSP schist. Buff-olive colour.									
				Coarse grained ankeritic. No veining except for occasional carbonate veins, trace pyrite.									
98.5	105.4			Chlorite FSP schist.									
				Coarse grained - no veining.									
105.4	165.5			Chlorite schist - few Qtz segregations, weakly to well foliated.									
				Some minor Qtz carbonate veining, trace of pyrite in some veins.									
				119.2 - 119.4 - fault gouge.									
				Few small <2 m bleached areas. A few blebby chlorite sections.									
				A few <2 m sections contain abundant Qtz segs.									



RELOG

**DRILL HOLE RECORD****DU PONT OF CANADA EXPLORATION LIMITED**HOLE NUMBER: B83-4SHEET NUMBER 1 OF 2

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (METRES)						
						FROM	TO	WIDTH	RCVRY				
0	4.0			Overburden.									
4.0	5.5			Diabase dyke Bottom section rusty, broken and weathered.									
5.5	24.5			Chlorite schist - few Qtz segregations, slightly sericitized near the upper contact - quite broken at toe of section, occasional small Qtz veinlets which contain Py and AsPy.									
24.5	30.7			Chlorite FSP schist - coarse grained, slightly crystalline.									
30.7	34.7			Chlorite schist - several Qtz segregations.									
34.7	36.7			Qtz-musc schist - abundant carbonate.									
36.7	41.1			Blebbly chlorite schist.									
41.1	45.5			Chlorite schist - a few Qtz-calcite segregations. Becomes calcareous near lower part of section.									
45.5	48.6			Graphite schist Several Qtz and calcite bands as segregations along foliation planes.									
48.6	50.0			Qtz-muscovite-carbonate schist.									
50.0	73.0			Graphite schist - same as above. Bottom 1.5 m is slightly calcareous.									
73.0	73.4			Marble - well foliated.									
73.4	78.1			Qtz-musc-carbonate schist - several Qtz segregations - no veining.									
78.1	84.3			Calcareous chlorite schist Calcite along foliation planes.									
84.3	86.0			Quartz-muscovite schist - no veining.									



RELOG

## DRILL HOLE RECORD

## DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B83-5

SHEET NUMBER 1 OF 2

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (METRES)						
						FROM	TO	WIDTH	RCVRY				
0	3.35			Overburden.									
3.35	13.7			Chlorite-FSP schist.									
				Coarse grained - occasional Qtz-Py AsPy veins.									
13.7	18.4			Qtz-musc-carbonate schist.									
				A few minor Py-AsPy rich sections.									
18.4	20.2			Chlorite-FSP schist.									
20.2	28.0			Chlorite schist - numerous Qtz segregations.									
28.0	42.8			Blebbly chlorite schist.									
				Occasional Qtz segregations.									
				41.4 - 42.2 - Rusty carbonated section.									
42.8	50.5			Qtz-muscovite-carbonate schist.									
				Extensive ankerite mineralization.									
				44.5 - 47.5 - Extensive shearing 10° to core axis - foliation oriented parallel to shear.									
50.5	53.7			Chlorite schist - few Qtz segregations. Top 2 m show extensive carbonate alteration.									
53.7	56.5			Chlorite schist - several Qtz segregations.									
56.5	61.5			Qtz-musc-carbonate schist.									
				A few 30 cm sections unaltered. Chlorite schist within this section.									
				60.2 - 60.5 - Qtz-AsPy vein.									
61.5	103.9			Chlorite schist - few Qtz segregations.									
				67.2 - 68.9 - Qtz-AsPy veining 30° to core axis.									
				70.2 - 72.5 - Several areas rich in Qtz segregations.									



RELOG

## DRILL HOLE RECORD

## DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: BB3-6SHEET NUMBER 1 OF 3

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (METRES)						
							FROM	TO	WIDTH	RCVRY			
0	4.0			Overburden.									
4.0	20.1			Chlorite-FSP schist. Coarse grained - well foliated.									
20.1	31.9			Chlorite schist - no Qtz segregations. Some blebby chlorite sections in middle 8 metres.									
31.9	32.9			Fault and sheared zone. Broken and gouged core.									
32.9	46.8			Chlorite schist - no Qtz segregations. A few Qtz-carbonate veins.									
46.8	55.8			Chlorite-musc schist - numerous Qtz segregations. Parts are feldspathic. Becomes richer in muscovite near bottom, dark green colour. 53.3 - 1 cm Qtz AsPy vein down core axis.									
55.8	97.0			Qtz musc schist - ankerite rich, a few minor sections of green-chlorite schist. Several Qtz-AsPy-Py veins subparallel to core axis from 82.7 → 97.									
97.0	115.1			Chlorite schist - few Qtz segregations. Several Qtz-Py-AsPy veins cutting at 20° to core axis. Contains grey-carbonate alteration envelopes around it.									
115.1	117.5			Qtz-musc-carbonate schist. 116.1 - 116.7 - Qtz vein running 10° to core axis. Vein contains Py and AsPy.									
117.5	123.8			Chlorite schist - ankerite rich. This section is inter-foliated with ankerite.									
123.8	135.5			Qtz-musc-ankerite schist. 126.8 - 128.3 - Very sheared containing a gouge zone 40 cm Qtz-AsPy-Py vein in this interval.									

# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

HOLE NUMBER: B83-6

SHEET NUMBER 2 OF 3

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS										
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (METRES)												
							FROM	TO	WIDTH	RCVRY									
135.5	140.3			Chlorite schist - several ankerite segregations along foliation planes.															
				Qtz veins running subparallel to foliation through upper part of this unit. Qtz veins contain abundant AsPy and Py.															
140.3	167.9			Qtz-Musc-Carbonate schist. Ankerite rich.															
				Some minor biotite-rich sections. No mineralized Qtz veins observed.															
167.9	172.3			Chlorite schist - Qtz segregations.															
172.3	182.3			Chlorite schist - no Qtz segregations. A few minor blebby chlorite sections.															
182.3	183.7			Chlorite schist - many Qtz segregations, occasional narrow Qtz-AsPy veins.															
183.7	184.7			Qtz musc - carbonate schist. A few AsPy Qtz veins.															
184.7	194.0			Chlorite schist - numerous Qtz segregations.															
194.0	195.5			Qtz musc schist - no veinlets.															
195.5	202.8			Chlorite schist - few Qtz segregations. A few 0.5 cm Qtz veins running parallel to core axis containing Py and AsPy.															
202.8	221.3			Chlorite - FSP schist - coarse grained.															
				206.5 - 207.8 - 1 cm Qtz-AsPy vein running down core axis - altered envelopes.															
221.3	223.3			Qtz-musc-carbonate schist.															
				Some Qtz AsPy veining along core axis, altered envelopes into lower chlorite schist.															



# DRILL HOLE RECORD

# DU PONT OF CANADA EXPLORATION LIMITED

 HOLE NUMBER: B83-6

 SHEET NUMBER 3 OF 3

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	INTERVAL (METRES)							
							FROM	TO	WIDTH	RCVRY				
223.3	226.5			Chlorite FSP schist.										
				Vein running into this unit along core axis from upper QMC schist.										
226.5	238.0			Top 2 metres of contact contains a few bands unaltered Chlorite Schist.										
				Qtz musc-carbonate schist. No major veining present.										
238.0	275.0			Chlorite schist - few Qtz segregations, some calcareous veinlets.										
				A few 1 metre sections containing numerous Qtz seg.										
				257.5 - 259.5 - Altered section contains extensive hematite and or biotite.										
				Below this section rock becomes slightly calcareous.										
275.0	277.7			Qtz-musc-carbonate schist.										
				Extensive bioite and or hematite alteration.										
277.7	286.7			Chlorite schist - occasional Qtz-carb vein.										
286.7	295.1			Qtz-muscovite-carbonate schist.										
				Extensive Qtz segregations. Lower metre is biotite-rich with blebs of biotite causing a spotted rock.										
				Up to 30% biotite in lower section.										
295.1	296.9			Chlorite schist - no qtz segregations.										
				END OF HOLE										

APPENDIX D

LIST OF ANALYSES

106 12 1984  
*[Handwritten initials]*

**GEOCHEMICAL REPORT**

**TO:** Dupont of Canada Exploration Ltd.  
 102 - 1550 Alberni Street  
 Vancouver, B.C.  
 V6G 1A5

**FILE NO.:** 84-173

**DATE:** July 31, 1984

**ATTENTION:** J. Kowalchuk cc. D. Barr, W. Wolfe

**PROJECT:** Bill (361)

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
7000	10	L.1	8	7	58	1	14
7001	L5	.1	30	1	66	1	150
7002	5	L.1	8	8	66	1	210
7003	10	.2	16	1	78	1	90
7004	L5	.1	34	1	64	1	12
7005	10	.1	18	8	60	1	40
7006	25	.3	20	3	48	1	360
7007	2,350	.1	8	2	22	1	3,500
7008	40	L.1	10	4	36	1	380
7009	L5	.1	12	1	40	1	78
7010	50	.1	22	1	48	1	120
7011	45	.1	58	5	72	1	96
7012	30	.1	40	2	58	1	120
7013	L5	.1	26	1	56	1	2
7014	L5	.6	24	1	46	1	2
7015	30	.1	30	1	28	1	115
7016	20	.2	34	1	38	1	64

*[Handwritten signature]*

**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	As ppm
8301	L5	.1	40
8302	230	.1	720
8303	L5	L.1	40
8304	180	.3	1,750
8305	410	.9	3,500
8306	280	.6	920
8307	120	.2	430
8308	L5	.2	60
8309	30	L.1	30
8310	10	L.1	40
8311	130	.3	290
8312	L5	L.1	50
8313	15	.3	50
8314	80	.1	40
8315	85	.1	270
8316	45	L.1	1850
8317	190	L.1	380
8318	920	.1	1,060
8319	270	.3	1,020
8320	75	L.1	400
8350	145	.1	130
8351	20	.5	100
8352	70	L.1	30
8353	130	L.1	30
8354	100	.1	110
8355	70	L.1	110
8356	30	L.1	50
8357	60	.1	70
8358	190	L.1	30
8359	90	L.1	60
8360	110	L.1	70
8361	40	.2	20
8362	40	L.1	40
8363	40	.1	40
8364	40	L.1	60
8365	50	L.1	90
8366	60	L.1	110
8367	10	L.1	20
8368	55	L.1	70
8369	55	.2	110
8370	105	.2	60
8371	230	.1	220
8372	195	L.1	850
8373	410	.1	930
8374	330	.1	970
8375	710	L.1	750
8376	75	.1	680
8377	15	.1	370
8378	65	.1	20
8379	150	.2	380

*[Handwritten Signature]*

**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	As ppm
8380	10	.1	80
8381	35	.1	1,220
8382	40	.1	80
8383	15	.4	1,150
8384	15	.6	1,180
8385	270	.1	90
8386	130	.1	60
8387	15	.1	40
8388	25	.2	50
8389	15	.2	50
8390	370	.3	520
8391	20	L.1	140
8392	160	.7	220
8393	70	.4	90
8394	700	L.1	240
8395	200	.4	890

"L" indicates "less than"

All results on pages 1 through 3 are geochemical determinations:  
 Au: fire assay, AA finish.  
 Ag,Cu,Pb,Zn,Sb,As: 20% nitric acid digestion, AA finish  
 (hydride generation used for Sb and As).

*[Handwritten signature]*



AUG - 3 1984

**GEOCHEMICAL REPORT**

**TO:** Dupont of Canada Exploration Ltd.  
 102 - 1550 Alberni Street  
 Vancouver, B.C.  
 V6G 1A5

**FILE NO.:** 84-183

**DATE:** August 2, 1984

**ATTENTION:** J. Kowalchuk cc. D. Barr, W. Wolfe

**PROJECT:** Bill (361)

Sample Description	Au ppb	Ag ppm	As ppm
8406	1,410	.2	1,650
8407	450	.3	380
8408	110	L.1	350
8409	80	L.1	120
8410	110	L.1	120
8411	530	L.1	400
8412	1,150	L.1	110
8413	50	L.1	110
8414	70	L.1	120
8415	40	L.1	20
8416	110	L.1	10
8417	10	L.1	20
8418	260	.2	310
8419	190	L.1	430
8420	70	L.1	50
8421	10	.2	10
8422	15	.3	20
8423	10	L.1	20
8424	110	L.1	70
8425	20	L.1	30
8426	50	.1	30
8427	130	.3	170
8428	130	.2	190
8429	40	L.1	110
8430	40	.4	120
8431	170	.2	60
8432	250	L.1	730
8433	510	L.1	380
8434	520	L.1	730
8435	170	L.1	600
8436	15	.1	50
8437	300	L.1	240
8438	230	.2	60
8439	100	.3	320
8440	180	.2	280
8441	210	L.1	860
8442	80	.2	90
8443	530	L.1	70
8444	300	.1	120
8445	70	.2	300

*Neil Sarge*

**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	As ppm
8446	180	.1	300
8447	130	.3	200
8448	40	.1	220
8449	140	L.1	160
8450	120	.1	630
8451	90	.1	200
8452	20	L.1	60
8453	10	L.1	20
8454	25	L.1	20
8455	5	L.1	50
8456	90	.6	1,480
8457	L5	.1	30
8458	5	.7	20
8459	10	.2	100
8460	50	.1	120
8461	70	L.1	210
8462	120	.1	220
8463	120	.4	260
8464	30	L.1	80
8465	60	L.1	120
8466	230	.1	150
8467	15	L.1	80
8468	120	L.1	30
8469	10	.1	70
8470	20	L.1	30
8471	70	.1	200
8472	340	L.1	250
8473	80	L.1	200
8474	210	L.1	90
8475	140	.5	2,240
8476	30	L.1	130
8477	5	L.1	60
8478	160	.5	2,020
8479	50	L.1	160
8480	70	.1	70
8481	150	.5	3,000
8482	130	.5	2,300
8483	440	L.1	4,200
8484	120	L.1	890
8485	360	L.1	580
8488	120	L.1	110
8489	450	L.1	230
8490	40	L.1	90
8491	40	L.1	100
8492	900	L.1	350
8493	120	L.1	130
8494	30	.1	130
8495	50	L.1	190
8496	20	L.1	110
8497	60	L.1	290

.....  
*Neil Siga*



**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	As ppm
8498	50	.4	340
8499	190	L.1	220
1518	220	L.1	750
1519	70	.1	170
1520	810	.3	2,100
1521	60	L.1	230
1522	40	.1	70
1523	100	Insufficient sample	
1524	70	.2	570
1525	930	3.5	2,400
1526	1,580	.9	7,600
1527	300	.2	250
1528	160	.2	810
1529	220	.7	370
1530	300	.1	540
1531	10	L.1	160
1532	300	L.1	240
1533	500	L.1	290
1534	50	L.1	100
1535	150	.1	110
1536	340	L.1	210
1537	60	.1	390
1538	660	L.1	870
1539	60	L.1	130
1540	210	.1	680
1541	200	L.1	2,250
1542	260	.1	1,400
1543	390	.2	370
1544	170	L.1	470
1545	220	L.1	540
1546	270	.2	1,260
1547	130	.2	1,080
1548	1,470	.2	1,000
8321	90	L.1	290
8322	430	L.1	290
8323	190	L.1	5,200
8324	160	L.1	220
8325	30	L.1	110
8326	150	L.1	180
8327	120	.3	270
8328	15	.1	20
8329	15	L.1	10
8330	40	L.1	40
8331	15	L.1	L10
8332	70	L.1	110
8333	40	L.1	20
8334	20	.1	30
8335	30	L.1	L10
8336	100	.1	10
8337	20	L.1	30

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*Neil Sege*  
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**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	As ppm
8338	40	.1	10
8339	150	L.1	10
8340	60	L.1	L10
8341	15	.5	20
8342	10	.2	20
8344	50	L.1	130
8345	70	.1	950
8346	220	L.1	510
8347	540	.3	1,430
8348	260	L.1	1,410
8349	340	.2	940
8396	50	.1	220
8397	10	.1	180
8398	10	L.1	110
8399	60	L.1	80
8400	260	.1	380
8401	710	5.3	5,400
8402	170	L.1	380
8403	670	.1	1,300
8404	480	.2	1,540
8405	1,050	.2	1,600
401	L5	.1	10
402	220	.1	5
403	L5	.1	4
404	L5	L.1	2
405	L5	L.1	5
406	15	.1	6
407	L5	L.1	5
408	40	.1	19
409	270	.1	4
410	L5	L.1	4
411	L5	L.1	1
412	L5	L.1	1
413	15	L.1	1
414	20	.1	1
415	5	.1	2
416	5	.1	2
417	25	.1	1
418	L5	.1	1
419	20	.1	1
420	270	.1	1
421	L5	.1	2
422	60	L.1	1
423	10	.1	2
424	60	L.1	1
501	100	L.1	6
502	20	.1	2
503	180	.1	4
504	25	L.1	4
505	40	L.1	7

*Neil Juge*

**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	As ppm
506	30	.1	2
507	20	L.1	4
508	30	L.1	2
509	60	L.1	2
510	70	L.1	2
511	130	.1	3
512	30	L.1	1
513	15	.1	1
514	30	.1	1
515	50	.1	2
516	10	.1	3
517	40	L.1	2
518	15	L.1	3
519	30	L.1	2
520	25	L.1	2
521	110	L.1	2
522	25	L.1	2
524	40	L.1	1

.....  
*Neil Juge*  
 .....

**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
444	50	.2	11	1	13	1	140
445	210	.2	8	1	24	1	50
446	1,560	.2	9	1	28	1	210
447	40	.2	6	2	20	1	70
448	20	L.1	7	1	34	1	80
449	30	.2	23	1	36	1	60
450	35	.2	12	3	17	1	60
451	20	L.1	46	3	34	1	10
452	140	L.1	6	1	62	1	60
453	130	.2	16	1	60	1	450
454	840	.2	22	1	38	1	2,700
455	100	.2	16	2	42	1	1,800
456	880	L.1	11	1	26	1	3,800
457	1,130	L.1	8	1	38	1	410
458	3,200	.2	29	1	38	1	6,400
459	1,950	L.1	15	1	66	1	2,700
460	110	L.1	16	3	42	1	60
461	60	L.1	20	1	48	1	490
462	210	L.1	11	1	62	1	290
463	1,800	.4	15	5	42	1	5,600
464	190						1,160
465	620						G10,000
466	770						G10,000
467	1,700						G10,000
468	330						G10,000
469	140	L.1	46	6	24	1	2,600
470	30	L.1	11	1	44	1	170
471	110	L.1	9	1	18	1	2,100
472	430	L.1	21	1	28	1	5,700
473	870	.4	22	3	34	1	2,550
474	70	.4	34	2	58	1	40
475	1,140	L.1	47	7	26	1	6,300
476	20	.2	6	1	50	1	60
477	G10,000	.2	14	4	24	1	500
478	1,950	L.1	30	2	54	1	810
479	150	L.1	7	1	36	1	450
480	120	L.1	15	1	32	1	150
481	20	L.1	4	1	44	1	30
482	30	L.1	3	5	50	1	20
483	15	L.1	8	1	50	1	10
484	20	L.1	11	1	60	1	10
485	50	L.1	9	2	50	1	30
486	180	L.1	30	1	52	1	2,100
487	1,240	.4	48	2	68	1	6,100
488	720	.2	36	3	72	1	3,800
489	G10,000	.2	38	1	66	1	850
490	30	L.1	23	2	90	1	50
491	90	L.1	33	1	78	1	470
495	610	.6	42	26	46	1	5,000
496	180	.4	30	1	40	1	1,100

*Neil Juge*

**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
501	200	L.1	26	1	54	1	590
7017	150	L.1	70	4	32	1	50
7018	20	L.1	44	2	42	1	30
7019	L5	L.1	36	1	58	1	20
7020	25	L.1	56	1	62	1	20
7021	40	.2	66	3	46	1	30
7022	15	L.1	46	1	40	1	10
7023	10	L.1	17	1	40	1	10
7024	15	L.1	44	1	64	1	20
7025	180	L.1	42	1	52	1	2,050
7026	5,200	L.1	22	8	14	1	G10,000
431	90	.2	26	5	20	1	2,800
432	80	L.1	17	1	26	1	110
433	5	L.1	22	1	38	1	80
434	100	.4	70	1	38	1	1,400
435	1,150	.4	10	2	22	1	G10,000
436	580	L.1	11	1	26	1	8,400
437	150	.2	52	1	30	1	2,500
438	60	L.1	40	1	38	1	600
439	690	.4	78	1	34	1	3,400
440	30	L.1	52	1	42	1	140
441	10	.4	40	3	58	1	90
442	40	.2	20	7	80	1	1,200
443	50	L.1	8	2	14	1	50

"L" indicates "less than"  
 "G" indicates "greater than"

Results on pages 1 through 7 are geochemical determinations:  
 Au: fire assay, AA finish.  
 Ag,Cu,Pb,Zn,Sb,As: 20% nitric acid digestion, AA finish  
 (hydride generation used for Sb and As).

.....  
*Neil S. J. [Signature]*

**ASSAY REPORT**

Sample Description	Au (g/t)
435	1.00
446	1.40
457	.90
458	3.70
459	2.60
463	3.10
467	1.90
475	1.35
477	16.50
478	2.10
487	1.40
489	15.60
7026	3.60

Results on page 8 are assays (fire assay, gravimetric finish)

  
Certified Assayer of British Columbia

AUG - 3 1984

**GEOCHEMICAL REPORT**

**TO:** Dupont of Canada Exploration Ltd.  
 102 - 1550 Alberni Street  
 Vancouver, B.C.  
 V6G 1A5

**FILE NO.:** 84-188

**DATE:** August 2, 1984

**ATTENTION:** J. Kowalchuk cc. D. Barr, W. Wolfe

**PROJECT:** Bill (361)

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
492	50	.4	36	5	30	1	500
493	500	.4	28	134	38	1	3,200
494	430	.4	46	4	32	1	3,600
497	2,450	.4	28	3	32	1	4,200
498	3,200	.4	38	2	38	1	2,600
499	460	.4	34	1	36	1	1,340
500	1,710	.4	38	2	36	1	3,200
523	520	.6	40	6	40	1	1,400
532	25	L.1	19	1	50	1	70
533	125	L.1	26	1	42	1	80
534	390	L.1	20	1	30	1	510
535	640	L.1	50	2	66	1	3,000
536	3,100	.2	24	1	30	1	G10,000
537	3,300	L.1	26	1	46	1	1,880
538	210	L.1	50	2	38	1	840
539	50	L.1	24	3	38	1	30
540	15	L.1	30	3	46	1	30
541	450	L.1	17	1	40	1	60
542	85	L.1	24	3	36	1	260
543	180	L.1	18	1	42	1	30
544	25	L.1	24	1	46	1	20
551	25	L.1	58	2	22	1	230
552	50	L.1	32	9	24	1	220
553	180	.4	46	36	80	1	1,480
555	9,400	.6	30	490	80	3	G10,000
556	85	L.1	24	14	34	1	160
557	40	L.1	40	7	16	1	280
703	320	.8	22	8	42	1	1,830
704	50	1.8	60	8	20	1	760
705	630	1.6	28	290	92	1	6,400
706	40	.4	28	4	34	1	300
707	520	.2	28	3	24	1	2,900
708	360	L.1	28	2	32	1	2,300
709	15	L.1	56	4	50	1	20
710	5	.2	15	11	56	1	160
711	L5	L.1	30	1	38	1	10
712	50	1.4	38	1	42	1	980
713	25	L.1	42	1	48	1	340
714	15	.4	68	1	60	1	110
715	5	L.1	15	1	32	1	10

*Neil Sege*

**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
716	5	L.1	20	1	24	1	30
717	40	.6	54	1	22	1	40
718	50	L.1	24	1	22	1	20
719	15	L.1	34	1	42	1	10
720	5,300	.6	44	1	36	1	2,350
721	240	1.0	48	2	48	1	1,500
722	40	.4	46	4	54	1	110
727	1,740	.2	24	1	26	1	10,000
728	70	L.1	12	1	32	1	70
729	250	1.4	32	34	18	1	4,000
730	220	L.1	18	1	38	1	2,000
731	50	L.1	26	1	38	1	130
732	400	L.1	22	24	36	1	2,600
733	50	L.1	36	5	44	1	20
734	320	L.1	7	1	58	1	580
735	30	L.1	46	2	38	1	10
736	170	.2	58	13	30	1	2,100

"L" indicates "less than"  
 "G" indicates "greater than"

Results on pages 1 and 2 are geochemical determinations:  
 Au: fire assay, AA finish.  
 Ag,Cu,Pb,Zn,Sb,As: 20% nitric acid digestion, AA finish  
 (hydride generation used for Sb and As).

.....Neil Juge.....



**ASSAY REPORT**

Sample Description	Au (g/t)
497	3.15
498	2.30
500	2.80
536	4.10
537	2.40
555	10.60
720	5.50
727	1.60

Results on page 3 are assays (fire assay, gravimetric finish).

  
.....  
Certified Assayer of British Columbia

AUG - 3 1984

**GEOCHEMICAL REPORT**

**TO:** Dupont of Canada Exploration Ltd.  
 102 - 1550 Alberni Street  
 Vancouver, B.C.  
 V6G 1A5

**FILE NO.:** 84-191

**DATE:** August 2, 1984

**ATTENTION:** J. Kowalchuk cc. D. Barr, W. Wolfe

**PROJECT:** Bill (361)

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
524	350	.4	38	1	42	1	1,600
525	50	.4	42	1	50	1	740
526	430	1.2	42	11	44	1	2,000
527	70	.8	34	1	60	1	1,180
528	L5	.8	28	3	86	1	180
529	70	2.2	40	43	62	1	2,200
530	70	1.6	36	2	70	1	1,100
531	120	L.1	15	1	58	1	790
545	L5	L.1	18	1	30	1	10
546	L5	L.1	24	2	28	1	760
547	L5	L.1	22	4	19	1	270
548	150	L.1	36	5	40	1	2,500
549	70	L.1	22	1	36	1	460
550	1,340	L.1	26	1	40	1	1,540
701	70	.2	24	1	64	1	920
702	1,370	.2	15	1	32	1	1,510
723	2,350	.6	46	5	50	1	5,400
724	20	.6	76	9	68	1	510
725	L5	.2	74	2	54	1	20
726	L5	.4	40	1	24	1	10

"L" indicates "less than"  
 "G" indicates "greater than"

Results on page 1 are geochemical determinations:

Au: fire assay, AA finish.

Ag,Cu,Pb,Zn,Sb,As: 20% nitric acid digestion, AA finish  
 (hydride generation used for Sb and As).

.....  
*Neil Juge*

**ASSAY REPORT**

Sample Description	Au (g/t)
550	1.40
702	.90
723	2.00

Results on page 2 are assays (fire assay, gravimetric finish).

  
.....  
Certified Assayer of British Columbia

*JMK copies*

**GEOCHEMICAL REPORT**

**TO:** Dupont of Canada Exploration Ltd.  
 102 - 1550 Alberni Street  
 Vancouver, B.C.  
 V6G 1A5

**FILE NO.:** 84-199

**DATE:** August 9, 1984

**ATTENTION:** J. Kowalchuk cc. D. Barr, W. Wolfe

**PROJECT:** Bill (361)

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
740	10	.1	22	2	18	1	20
741	180	.2	52	4	32	1	680
742	L5	.1	56	3	36	1	20
743	L5	L.1	36	3	52	1	30
744	L5	L.1	38	4	40	1	20
745	L5	.1	52	2	36	1	60
746	L5	L.1	38	3	26	1	50
747	L5	L.1	40	1	26	1	30
748	L5	L.1	42	1	40	1	10
749	170	L.1	58	1	32	1	490
750	G10,000	.1	60	4	26	1	2,600
751	750	.6	68	4	62	1	2,400
752	270	.8	76	10	56	1	1,200
753	20	.2	58	5	34	1	190
754	60	L.1	56	4	56	1	20
755	340	.1	62	3	62	1	240
756	60	.2	84	4	64	1	300
757	40	L.1	38	2	52	1	10
758	40	L.1	50	1	66	1	10
759	10	L.1	90	1	72	1	10
760	30	.1	48	8	46	1	260
761	430	.2	66	6	54	1	2,300
762	35	.1	70	5	46	1	30
763	420	.3	66	5	50	1	420
764	20	L.1	52	4	40	1	240
765	15	L.1	40	1	70	1	10
766	60	L.1	36	1	52	1	20
767	170	L.1	48	3	60	1	10
768	30	L.1	50	1	52	1	80
769	50	1.2	38	12	52	1	1,300
770	10	.1	58	6	30	1	60
771	10	L.1	36	2	46	1	20
772	340	.1	26	62	44	1	2,900
773	L5	.9	58	92	48	2	4,700
774	L5	.1	60	5	40	1	30
775	30	.1	56	2	38	1	30
776	5	.1	42	6	40	1	640
777	40	L.1	38	2	40	1	280
778	40	L.1	42	7	48	1	420
779	5	.2	40	15	50	1	50

*Bill (361)*

**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
780	220	4.3	98	8	42	3	4,500
781	170	.9	56	1	40	1	2,000
782	20	.7	38	1	40	1	110
783	30	2.6	82	2	36	1	140
784	5,000	7.9	760	15	48	140	G5,000
785	25	.3	128	1	50	1	180
786	760	2.8	270	14	22	1	G5,000
787	20	.3	54	4	46	1	580
788	10	L.1	46	2	34	1	570
789	10	.1	42	1	38	1	110
790	10	L.1	28	1	44	1	10
791	5	.1	58	1	40	1	20
792	100	.3	30	1	30	1	1,700
793	L5	L.1	32	4	40	1	20
794	L5	.1	38	1	40	1	130
795	110	.3	24	3	46	1	1,700
796	10	L.1	14	1	44	1	60
797	200	L.1	44	1	54	1	650
798	240	L.1	62	6	64	1	3,700
799	1,350	.2	22	3	32	1	G5,000
800	710	1.3	40	210	64	5	G5,000
0750F	50	.2	72	1	64	1	90
0751F	3,250	1.5	194	4	46	1	G5,000
0752F	1,800	.6	52	4	42	1	G5,000

"L" indicates "less than"  
 "G" indicates "greater than"


Results on pages 1 and 2 are geochemical determinations:  
 Au: fire assay, AA finish.  
 Ag,Cu,Pb,Zn: 20% nitric acid digestion, AA finish  
 Sb, As: 20% nitric acid digestion, AA (vapour generator).

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*hand signature*

**ASSAY REPORT**

Sample Description	Au (g/t)	
750	24.70	0.795
784	4.05	0.130
799	1.50	0.048
0751F	3.20	0.103
0752F	1.60	0.051

Results on page 3 are assays (fire assay, gravimetric finish).

  
Certified Assayer of British Columbia

AUG 13 1984

**GEOCHEMICAL REPORT**

**TO:** Dupont of Canada Exploration Ltd.  
 102 - 1550 Alberni Street  
 Vancouver, B.C.  
 V6G 1A5

**FILE NO.:** 84-205

**DATE:** August 10, 1984

**ATTENTION:** J. Kowalchuk cc. D. Barr, W. Wolfe

**PROJECT:** Bill (361)

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
0753F	3,100	.4	82	7	38	1	G5,000
0754F	310	.1	22	2	40	1	4,800
0755F	1,300	.2	32	7	60	1	2,900
0756F	50	L.1	20	1	38	1	780
0757F	140	L.1	20	1	42	1	940
0758F	130	.1	24	6	24	1	1,450
0759F	50	L.1	6	2	20	1	820
0760F	140	.3	10	3	24	1	1,380
0761F	760	.3	8	2	22	1	180
0762F	170	L.1	4	1	40	1	10
0763F	30	.1	6	3	54	1	60
0764F	20	.1	6	1	56	1	20
0765F	180	.2	10	5	8	1	670
0766F	170	.3	30	3	10	1	3,800
0767F	210	.1	52	3	34	1	2,600
0768F	300	.1	38	3	44	1	1,500
0769F	30	.1	52	3	46	1	120
0770F	30	L.1	42	2	44	1	1,000
0771F	410	.2	36	3	68	1	1,850
0772F	100	.2	78	2	32	1	4,500
0773F	690	L.1	26	2	44	1	3,700
0774F	120	L.1	16	1	76	1	1,650
0776F	360	L.1	14	1	52	1	420
0777F	180	L.1	12	1	52	1	170
0778F	10	L.1	16	1	40	1	390
0779F	25	L.1	12	1	52	1	140
0780F	110	.2	12	3	10	1	G5,000
0781F	1,750	.5	16	5	8	4	G5,000
0782F	G10,000	.8	20	7	6	6	G5,000
0783F	7,600	.4	34	4	6	5	G5,000
0784F	890	1.4	34	11	6	16	G5,000
0785F	710	.2	40	4	4	6	G5,000

"L" indicates "less than"

"G" indicates "greater than"

Results on page 1 are geochemical determinations:

Au: fire assay, AA finish.

Ag,Cu,Pb,Zn: 20% nitric acid digestion, AA finish.

Sb,As: 20% nitric acid digestion, AA (vapour generator).

*Neil Siege*

**ASSAY REPORT**

Sample Description	Au (g/t)
0753F	3.50
0755F	1.10
0781F	2.30
0782F	21.70
0783F	11.00

Results on page 2 are assays (fire assay, gravimetric finish).

  
Certified Assayer of British Columbia



**GEOCHEMICAL REPORT**

**TO:** Dupont of Canada Exploration Ltd.  
 102 - 1550 Alberni Street  
 Vancouver, B.C.  
 V6G 1A5

**FILE NO.:** 84-216

**DATE:** August 14, 1984

**ATTENTION:** J. Kowalchuk cc. D. Barr, W. Wolfe

**PROJECT:** Bill (361)

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
5600E	35	L.1	32	1	60	1	530
5601E	30	.1	26	4	86	1	360
5602E	40	L.1	28	1	72	1	2,300
5603E	40	.2	28	2	56	1	2,400
5604E	60	L.1	30	2	48	1	2,800
5605E	40	L.1	24	1	92	1	880
5606E	30	L.1	16	1	58	1	3,200
5607E	20	.2	16	2	54	1	100
5608E	40	L.1	44	14	12	1	1,250
5609E	25	L.1	16	4	38	1	2,300
5610E	30	L.1	14	3	34	1	1,400
5611E	40	L.1	16	2	36	1	2,100
5612E	25	L.1	12	1	40	1	640
5613E	70	L.1	18	5	4	1	G5,000
5614E	30	3.8	72	19	44	1	4,900
5615E	40	.3	10	4	62	1	250
0786F	25	L.1	34	1	42	1	50
0787F	50	L.1	52	1	52	1	50
0788F	30	L.1	22	1	62	1	20
0789F	20	L.1	22	1	66	1	10
0790F	1,900	L.1	34	1	48	1	50
0791F	60	L.1	10	1	58	1	120
0792F	90	L.1	10	1	28	1	10
0793F	960	L.1	30	2	72	1	3,100
0794F	60	L.1	12	2	76	1	40
0795F	3,900	L.1	30	2	62	1	4,600
0796F	350	L.1	16	1	68	1	1,150
0797F	1,330	L.1	22	1	60	1	2,300
0798F	530	L.1	16	1	50	1	3,000
0799F	460	.2	44	9	44	1	G5,000

"L" indicates "less than"  
 "G" indicates "greater than"

Results on page 1 are geochemical determinations:

Au: fire assay, AA finish.

Ag,Cu,Pb,Zn: 20% nitric acid digestion, AA finish.


Sb,As: 20% nitric acid digestion, AA (vapour generator).

*Neil Juge*

**ASSAY REPORT**

Sample Description	Au (g/t)	
0790F	1.75	0.056
0795F	4.20	0.135
0797F	1.30	0.041

Results on page 2 are assays (fire assay, gravimetric finish).

  
.....  
Certified Assayer of British Columbia

**GEOCHEMICAL REPORT**

**TO:** Dupont of Canada Exploration Ltd.  
 102 - 1550 Alberni Street  
 Vancouver, B.C.  
 V6G 1A5

**FILE NO.:** 84-221

**DATE:** August 15, 1984

**ATTENTION:** J. Kowalchuk cc. D. Barr, W. Wolfe

**PROJECT:** Bill (361)

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
5616E	1,800	28	1,550	4	54	24	4,600
5617E	270	1.1	102	9	30	1	3,200
5618E	430	.1	16	2	32	1	3,900
5619E	G10,000	.8	98	15	38	2	G5,000
5620E	1,700	.1	24	1	26	1	G5,000
5621E	1,410	L.1	14	1	40	1	G5,000
5622E	180	.1	14	1	56	1	2,600
5623E	1,650	.4	44	1	46	1	3,100
5624E	940	.2	52	1	42	1	G5,000
5625E	5,500	.5	52	1	36	1	4,600
5626E	G10,000	.3	18	1	40	1	G5,000
5627E	520	.2	12	1	42	1	4,400
5628E	380	.2	22	1	48	1	G5,000
5629E	160	.2	20	1	96	1	2,350
5630E	660	.2	22	3	50	1	490
5631E	5,400	.2	22	26	45	1	4,500
5632E	L5	L.1	26	1	110	1	30
5633E	L5	.1	40	1	82	1	40
5634E	10	.5	118	1	68	1	40
5635E	20	.4	42	1	44	1	30
5636E	230	1.2	46	270	1,900	1	2,500
5637E	640	.1	22	14	108	1	2,400
5638E	390	.1	28	10	66	1	G5,000
5639E	1,500	.4	68	8	70	1	3,900
5640E	530	.1	22	3	70	1	3,300
5641E	G10,000	.1	24	4	70	1	3,000
5642E	2,200	.1	22	3	88	1	2,350
5643E	40	.1	18	1	56	1	50
5644E	660	.4	20	12	16	2	G5,000
5645E	730	3.1	290	26	24	2	1,300
5646E	330	.6	16	15	28	1	G5,000
5647E	120	1.1	26	7	58	1	2,750
5648E	3,900	3.0	36	142	1,220	2	G5,000
5649E	80	.3	40	1	60	1	720
5650E	40	L.1	14	1	118	1	170
5651E	2,300	.1	16	1	96	1	2,050
5652E	80	L.1	14	1	90	1	290
5653E	550	L.1	22	1	52	1	370
5654E	40	.1	20	1	54	1	500
P246	110	46	1,600	33	450	210	110

*Neil Juge*

**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
P252	230	28	970	G5,000	G5,000	150	100
2816F	495	L.1					20
2817F	430	L.1					40
2818F	70	L.1					40
2819F	30	L.1					10
2820F	L5	L.1					30
2821F	30	L.1					20
2822F	30	L.1					10
2823F	45	.1					110
2824F	225	.1					840
2825F	60	.6					110
2826F	40	L.1					200
2827F	20	.1					70
2828F	35	.2					130
2829F	30	.1					90
2830F	15	.2					150
2831F	20	L.1					50
2832F	25	.1					30
2833F	30	L.1					10
2834F	160	L.1					10
2835F	40	.1					20
2836F	40	.3					20
2837F	50	L.1					10
2838F	30	L.1					10
2839F	160	.1					10
2840F	30	.4					20
2841F	10	.4					220
2842F	L5	.1					30
2843F	L5	.2					20
2844F	L5	L.1					10
2845F	380	L.1					30
2846F	L5	L.1					10
2847F	10	L.1					20
2848F	L5	L.1					20
2849F	L5	L.1					20

"L" indicates "less than"  
 "G" indicates "greater than"

Results on pages 1 and 2 are geochemical determinations:  
 Au: fire assay, AA finish.  
 Ag,Cu,Pb,Zn: 20% nitric acid digestion, AA finish.  
 Sb, As: 20% nitric acid digestion, AA (vapour generator).

.....*Neil Juge*.....

**ASSAY REPORT**

Sample Description	Au (g/t)	
5616E	2.10	.067
5619E	21.10	0.679
5620E	1.60	0.051
5621E	1.50	0.048
5623E	1.60	0.051
5625E	5.00	0.161
5626E	15.50	
5631E	6.50	
5639E	1.90	
5641E	24.80	
5642E	2.35	
5648E	4.50	
5651E	2.90	

Results on page 3 are assays (fire assay, gravimetric finish).

  
.....  
Certified Assayer of British Columbia

AUG 21 1984

**GEOCHEMICAL REPORT**

**TO:** Dupont of Canada Exploration Ltd.  
 102 - 1550 Alberni Street  
 Vancouver, B.C.  
 V6G 1A5

**FILE NO.:** 84-232

**DATE:** August 20, 1984

**ATTENTION:** J. Kowalchuk cc. D. Barr, W. Wolfe

**PROJECT:** Bill (361)

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
5450E	120	.5	120	17	60	1	2,100
5451E	L5	L.1	12	7	78	1	80
5452E	740	.2	66	16	76	1	5,000
5453E	30	L.1	2	2	50	1	10
5454E	5	L.1	50	1	42	1	10
5455E	10	L.1	126	1	38	1	10
5456E	210	.1	6	8	62	1	2,250
5457E	2,700	.9	34	52	66	3	5,000
5458E	220	L.1	6	12	70	1	2,000
5459E	160	L.1	4	2	62	1	1,550
5460E	40	L.1	10	8	78	1	480
5461E	10	L.1	4	3	80	1	530
5462E	10	L.1	4	1	80	1	130
5463E	20	L.1	4	1	46	1	80
5464E	170	L.1	4	1	74	1	110
5465E	L5	L.1	8	2	46	1	10
5466E	L5	L.1	58	13	54	1	10
5467E	L5	L.1	6	1	88	1	10
5468E	5	L.1	8	2	94	1	100
5469E	1,550	.8	40	37	46	1	G5,000
5470E	280	.3	116	12	64	1	380
5471E	10	L.1	370	3	46	1	20
5472E	15	L.1	148	2	42	1	10
5655E	360	.2	10	51	50	1	4,700
5656E	10	L.1	12	2	66	1	40
5657E	40	L.1	10	2	52	1	130
5658E	2,000	L.1	6	1	72	1	1,600
5659E	10	L.1	4	1	62	1	30
5660E	10	L.1	4	1	58	1	30
5661E	L5	L.1	6	1	60	1	20
5662E	L5	L.1	30	1	66	1	220
5663E	5	L.1	20	1	32	1	130
5664E	10	L.1	52	1	30	1	140
5665E	20	L.1	26	1	52	1	290
5666E	L5	L.1	20	9	26	1	80
5667E	20	L.1	26	1	36	1	90
5668E	20	L.1	28	1	52	1	60
5669E	5	L.1	40	1	52	1	30
5670E	30	L.1	40	1	56	1	170
5671E	250	L.1	40	1	38	1	470

.....  
*Neil Sage*

**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
5672E	20	L.1	44	1	26	1	240
5673E	3,700	3.5	260	18	14	2	4,600
5674E	G10,000	9.0	1,200	30	84	160	G5,000
5675E	G10,000	5.2	30	G5,000	6	8	G5,000
5676E	G10,000	144	1,350	G5,000	400	3,450	G5,000
5677E	G10,000	6.7	18	370	8	40	G5,000
5678E	G10,000	2.6	180	92	4	4	G5,000
5679E	1,250	.9	10	44	4	1	770
5680E	2,450	.4	26	19	6	2	G5,000
5685E	70	.3	22	18	26	1	570
5686E	410	.2	26	8	24	1	G5,000
5687E	640	L.1	20	5	40	1	5,000
5688E	110	L.1	32	3	72	1	340
5689E	290	.1	152	4	34	1	1,700
5690E	80	.2	30	11	72	1	760
5691E	30	L.1	18	12	82	1	1,100
5692E	20	.1	44	12	84	1	510
5693E	20	.1	76	5	48	1	580
5694E	L5	L.1	122	2	40	1	40
5695E	450	1.1	68	26	44	1	4,800
5696E	L5	L.1	120	1	28	1	40
5697E	840	1.7	50	310	72	1	4,300
5698E	10	.2	38	12	64	1	230
5699E	960	.2	44	21	96	1	G5,000
1863E	2,250	.3					1,350
8950E	400	.3					760
8951E	390	L.1					340
8952E	50	.1					130
8953E	140	.3					270
8954E	40	.2					260
8955E	30	.1					70
8956E	130	.1					290
8957E	40	.2					180
8958E	270	.3					370
8959E	730	.3					680
8960E	170	.3					1,720
8961E	450	.5					1,180
8962E	1,450	.3					580
8964E	2,700	1.2					4,300
8965E	1,900	1.3					1,900
8966E	1,040	.5					1,140
8967E	610	.7					1,100
8968E (-40)	620	.5					1,440
8969E	480	.5					1,080
8970E	410	.3					720
8971E	60	.2					460
8972E	320	.4					1,140
8973E	500	1.1					1,960
8974E	1,400	1.1					2,000

.....*Neil Suga*.....

**GEOCHEMICAL REPORT**

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	As ppm
8975E	210	.2					420
8976E	80	.4					1,320
8977E	L5	.1					40
8978E	40	.1					80
8979E	60	L.1					50
8980E	L5	L.1					10
8981E (-40)	L5	.1					20
8982E (-40)	L5	.1					20

"L" indicates "less than"  
 "G" indicates "greater than"

Results on pages 1 through 3 are geochemical determinations:  
 Au: fire assay, AA finish.  
 Ag,Cu,Pb,Zn: 20% nitric acid digestion, AA.  
 Sb, As: 20% nitric acid digestion, AA (vapour generator).

.....  
*Neil Suge*



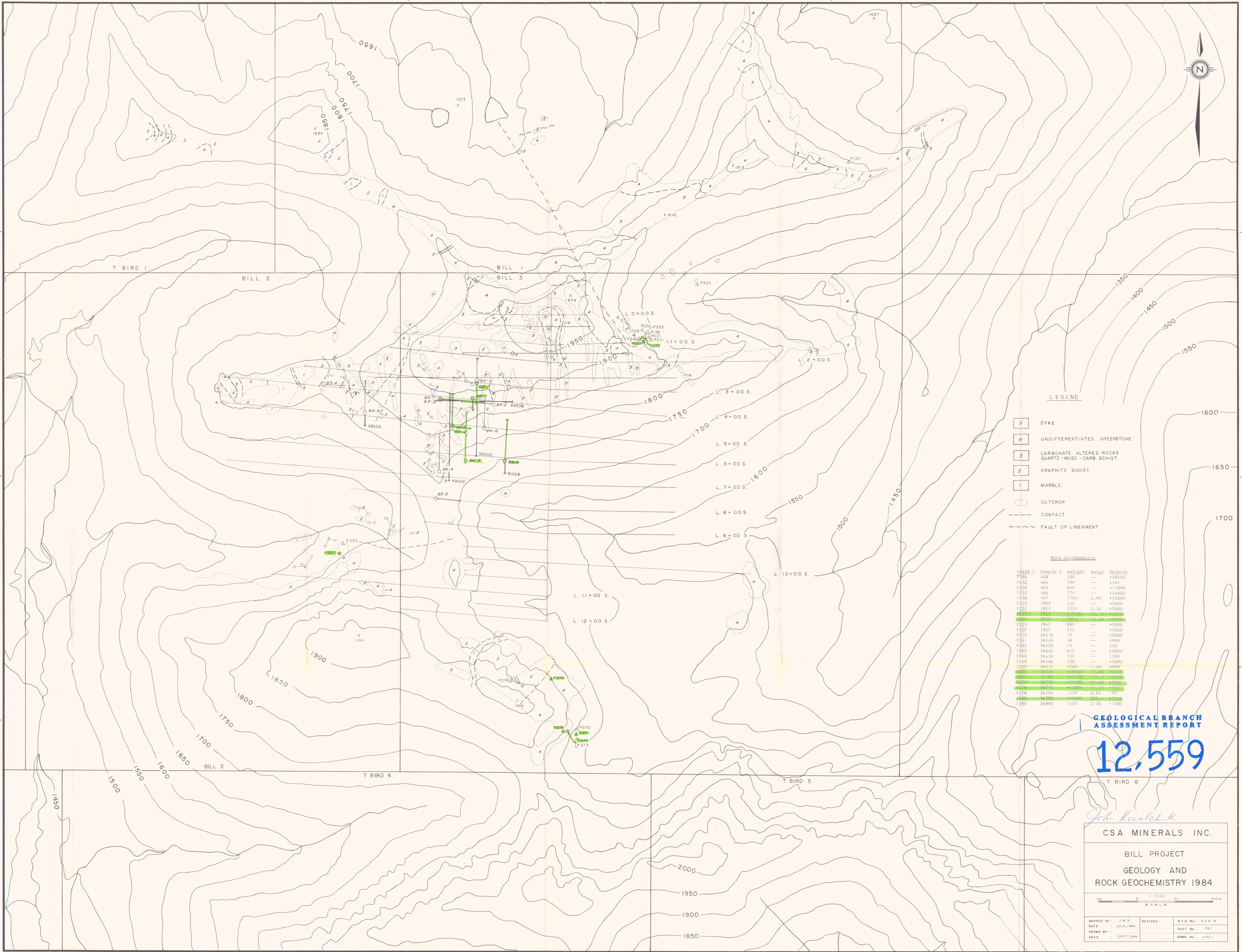
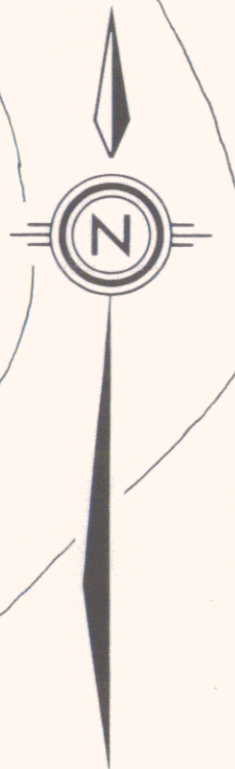
**ASSAY REPORT**

Sample Description	Au (g/t)
5457E	1.90
5469E	2.05
5658E	2.20
5673E	5.10
5674E	22.00
5675E	15.70
5676E	110.00
5677E	49.40
5678E	105.40
5679E	.65
5680E	2.30

Results on page 4 are assays (fire assay, gravimetric finish).

  
Certified Assayer of British Columbia





LEGEND

- 5 DYKE
- 4 UNDIFFERENTIATED GREENSTONE.
- 3 CARBONATE ALTERED ROCKS QUARTZ - MUSC. - CARB. SCHIST.
- 2 GRAPHITE SCHIST.
- 1 MARBLE.
- OUTCROP
- - - CONTACT
- ~ ~ ~ FAULT OR LINEAMENT

Rock Geochemistry

Field #	Sample #	Au(ppb)	Ag(ppb)	As(ppm)
P104	468	330	--	+10000
P132	464	190	--	1160
P132	465	620	--	+10000
P137	466	770	--	+10000
P138	467	1700	1.90	+10000
P212	780F	110	--	+5000
P221	781F	1750	2.30	+5000
P225	782F	15000	21.00	+5000
P225	783F	2600	11.00	+5000
P225	784F	890	--	+5000
P226	785F	710	--	+5000
P230	5613E	70	--	+5000
P261	5614E	30	--	4900
P262	5615E	40	--	250
P265	5644E	660	--	+5000
P268	5645E	730	--	1300
P269	5646E	330	--	+5000
P270	5673E	3700	3.10	4000
P271	5674E	10000	22.00	+5000
P272	5675E	10000	22.00	+5000
P273	5676E	10000	22.00	+5000
P274	5677E	10000	22.00	+5000
P275	5678E	10000	22.00	+5000
P276	5679E	1250	0.65	770
P277	5678E	10000	105.1	1500
P278	5679E	1250	0.65	770
P288	5678E	10000	105.1	1500
P290	5680E	2450	2.30	+5000

GEOLOGICAL BRANCH ASSESSMENT REPORT

12,559

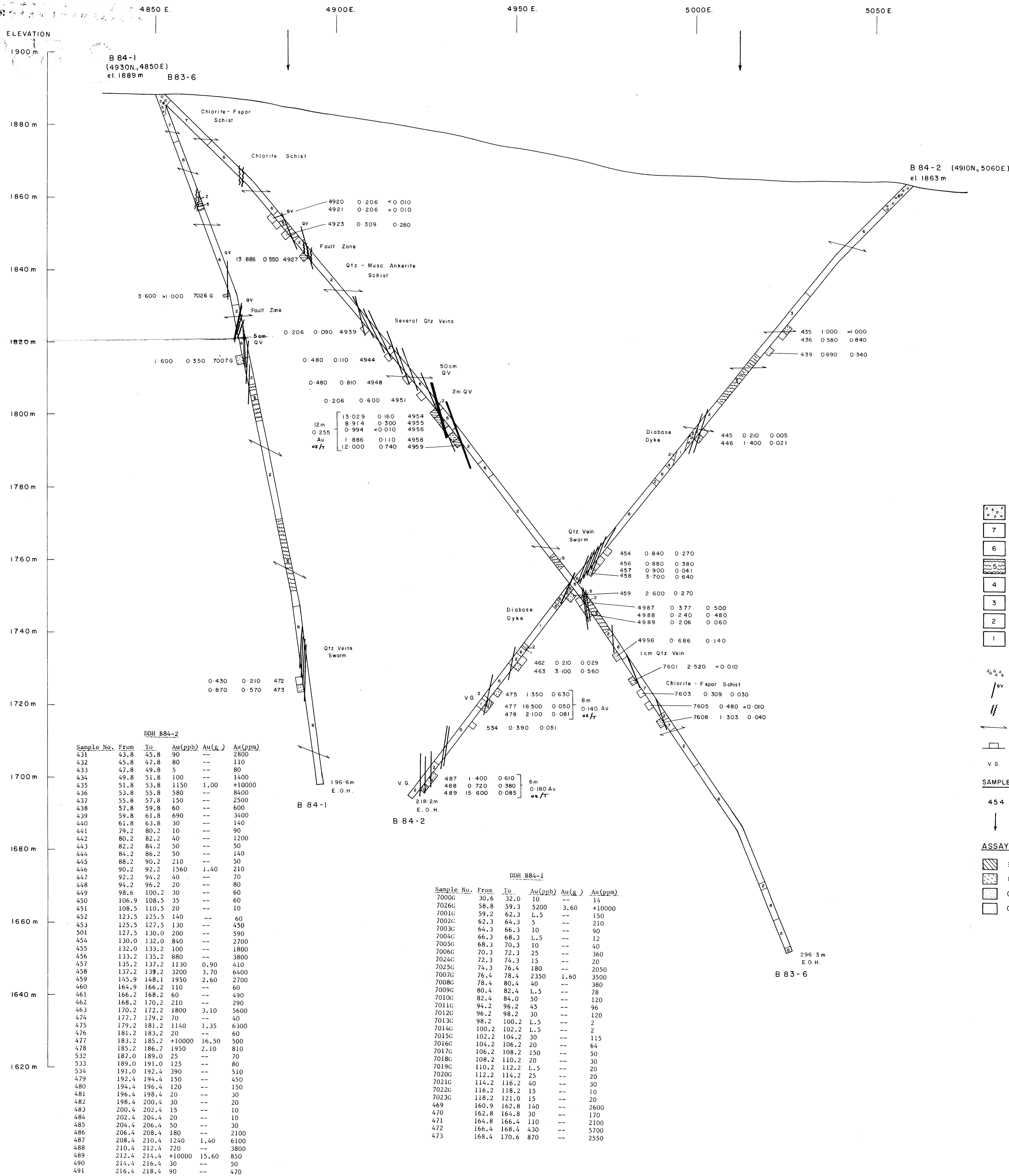
John Kowalek  
CSA MINERALS INC.

BILL PROJECT  
GEOLOGY AND  
ROCK GEOCHEMISTRY 1984



MAPPED BY: J.M.K.	REVISED:	N.T.S. No.: 94 E 12
DATE: JULY 1984		ACCT No.: 361
DRAWN BY:		DRWB. No.: 884-1
DATE: SEPT 1984		





**LEGEND**

**GEOLOGICAL LEGEND**

- OVERBURDEN
  - CHLORITE FELDSPAR SCHIST
  - CHLORITE SCHIST
  - CHLORITE SCHIST (NUMEROUS QTZ. SEGREGATIONS)
  - SPOTTED CHLORITE SCHIST
  - CALCAREOUS CHLORITE SCHIST
  - QUARTZ-MUSCOVITE CARBONATE SCHIST
  - DIABASE DYKE
- SYMBOLS**
- BRECCIA
  - QUARTZ VEIN CONTAINING PY AND As PY
  - FAULT GOUGE
  - SCHISTOSITY
  - SAMPLE INTERVAL CONTAINING GOLD ASSAY > 0.2 GRAMS.
  - V.G. VISIBLE GOLD
  - VLF CONDUCTOR

**ASSAY SCALE**

- ≥ 5.0
- 1.0 - 5.0
- 0.5 - 1.0
- 0.2 - 0.5

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

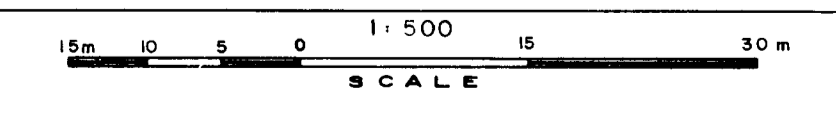
**12,559**

*John Kovalchuk*

**CSA MINERALS INC.**

**BILL PROJECT  
DIAMOND DRILL HOLE SECTION  
4930 N. (L.4+00 S.)**

D.D.H. B 83-6, B 84-1, B 84-2



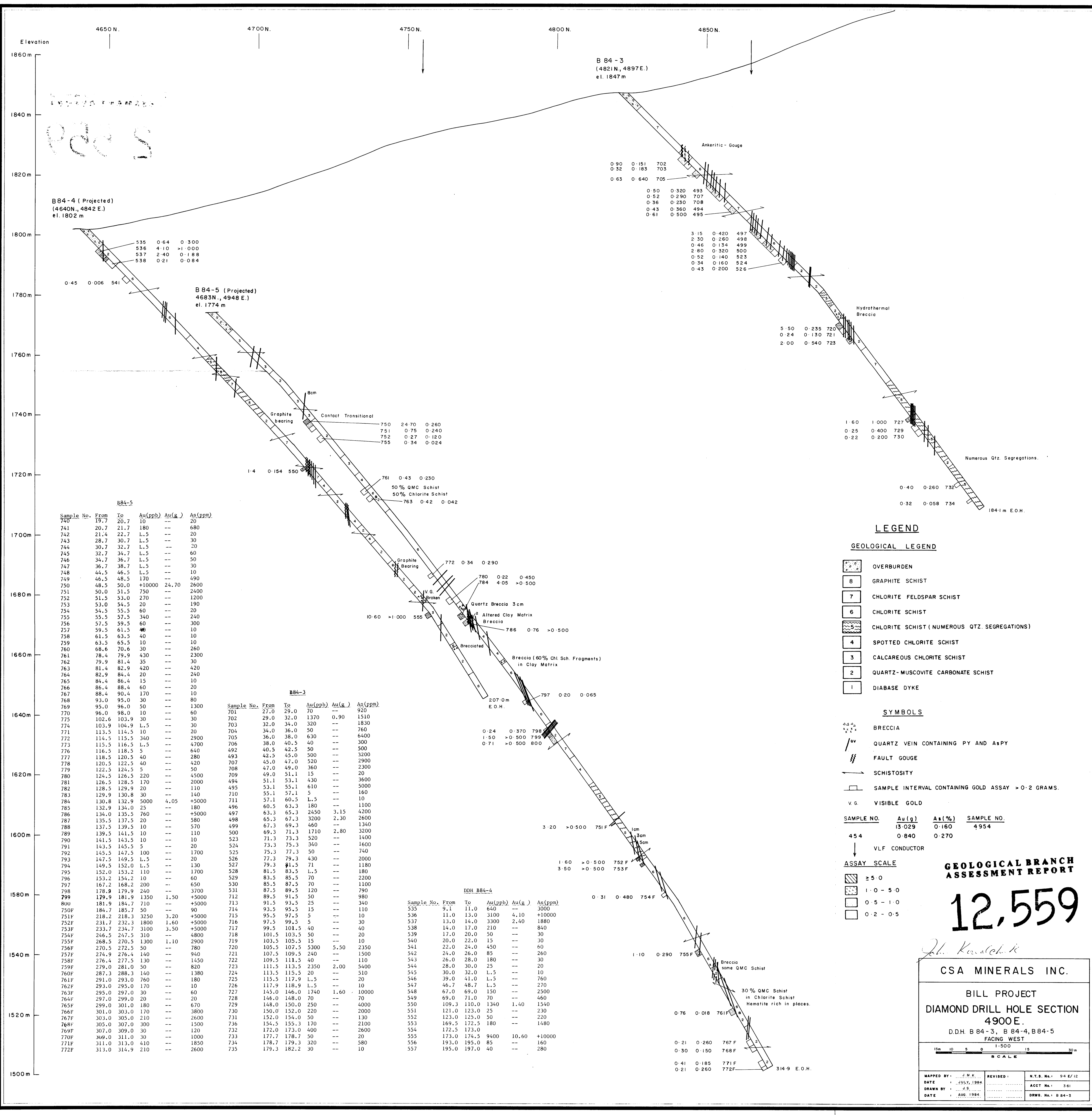
MAPPED BY: J.M.K.	REVISED:	N.T.S. No.: 94 E/12
DATE: JULY 1984	ACCT No.: 361	
DRAWN BY: J.S.	DRWG. No.: B 84-2	
DATE: AUG 1984		

**DDH B84-2**

Sample No.	From	To	Au(ppb)	Au(g)	As(ppm)
431	43.8	45.8	90	--	2800
432	45.8	47.8	80	--	110
433	47.8	49.8	5	--	80
434	49.8	51.8	100	--	1400
435	51.8	53.8	1150	1.00	+10000
436	53.8	55.8	580	--	8400
437	55.8	57.8	150	--	2500
438	57.8	59.8	60	--	600
439	59.8	61.8	690	--	3400
440	61.8	63.8	30	--	140
441	79.2	80.2	10	--	90
442	80.2	82.2	40	--	1200
443	82.2	84.2	50	--	50
444	84.2	86.2	50	--	140
445	88.2	90.2	210	--	50
446	90.2	92.2	1560	1.40	210
447	92.2	94.2	40	--	70
448	94.2	96.2	20	--	80
449	98.6	100.2	30	--	60
450	106.9	108.5	35	--	60
451	108.5	110.5	20	--	10
452	123.5	125.5	140	--	450
453	125.5	127.5	130	--	60
454	127.5	130.0	200	--	590
455	130.0	132.0	840	--	2700
456	132.0	133.2	100	--	1800
457	133.2	135.2	880	--	3800
458	135.2	137.2	1130	0.90	410
459	137.2	139.2	3200	3.70	6400
460	145.9	148.1	1950	2.60	2700
461	164.9	166.2	110	--	60
462	166.2	168.2	60	--	490
463	168.2	170.2	210	--	290
464	170.2	172.2	1800	3.10	5600
465	172.2	174.2	70	--	40
466	174.2	176.2	70	--	40
467	176.2	178.2	1140	1.35	6300
468	181.2	183.2	20	--	60
469	183.2	185.2	+10000	16.50	500
470	185.2	186.7	1950	2.10	810
471	187.0	189.0	25	--	70
472	189.0	191.0	125	--	80
473	191.0	192.4	390	--	510
474	192.4	194.4	150	--	450
475	194.4	196.4	120	--	150
476	196.4	198.4	20	--	80
477	198.4	200.4	30	--	20
478	200.4	202.4	15	--	10
479	202.4	204.4	20	--	10
480	204.4	206.4	50	--	30
481	206.4	208.4	180	--	2100
482	208.4	210.4	1240	1.40	6100
483	210.4	212.4	720	--	3800
484	212.4	214.4	+10000	15.60	850
485	214.4	216.4	30	--	50
486	216.4	218.4	90	--	470

**DDH B84-1**

Sample No.	From	To	Au(ppb)	Au(g)	As(ppm)
7000G	30.6	32.0	10	--	14
7026G	58.8	59.3	5200	3.60	+10000
7001G	59.2	62.3	L.5	--	150
7002G	62.3	64.3	5	--	210
7003G	64.3	66.3	10	--	90
7004G	66.3	68.3	L.5	--	12
7005G	68.3	70.3	10	--	40
7006G	70.3	72.3	25	--	360
7024G	72.3	74.3	15	--	20
7025G	74.3	76.4	180	--	2050
7007G	76.4	78.4	2350	1.60	3500
7008G	78.4	80.4	40	--	380
7009G	80.4	82.4	L.5	--	78
7010G	82.4	84.0	50	--	120
7011G	84.0	86.2	45	--	96
7012G	86.2	88.2	30	--	120
7013G	88.2	100.2	L.5	--	2
7014G	100.2	102.2	L.5	--	2
7015G	102.2	104.2	30	--	115
7016G	104.2	106.2	20	--	64
7017G	106.2	108.2	150	--	50
7018G	108.2	110.2	20	--	30
7019G	110.2	112.2	L.5	--	20
7020G	112.2	114.2	25	--	20
7021G	114.2	116.2	40	--	30
7022G	116.2	118.2	15	--	10
7023G	118.2	121.0	15	--	20
469	160.9	162.8	140	--	2600
470	162.8	164.8	30	--	170
471	164.8	166.4	110	--	2100
472	166.4	168.4	430	--	5700
473	168.4	170.6	870	--	2550



B84-4 (Projected)  
(4640N., 4842 E.)  
el. 1802 m

B84-5 (Projected)  
4683N., 4948 E.)  
el. 1774 m

B 84 - 3  
(4821N., 4897E.)  
el. 1847 m

**B84-5**

Sample No.	From	To	Au(ppb)	Au(g)	As(ppm)
740	19.7	20.7	10	---	---
741	20.7	21.7	180	---	680
742	21.4	22.7	L.5	---	20
743	28.7	30.7	L.5	---	30
744	30.7	32.7	L.5	---	20
745	32.7	34.7	L.5	---	60
746	34.7	36.7	L.5	---	30
747	36.7	38.7	L.5	---	10
748	44.5	46.5	L.5	---	30
749	46.5	48.5	170	---	490
750	48.5	50.0	+10000	24.70	2600
751	50.0	51.5	750	---	2400
752	51.5	53.0	270	---	1200
753	53.0	54.5	20	---	190
754	54.5	55.5	60	---	20
755	55.5	57.5	340	---	240
756	57.5	59.5	60	---	300
757	59.5	61.5	40	---	10
758	61.5	63.5	40	---	10
759	63.5	65.5	10	---	10
760	68.6	70.6	30	---	260
761	78.4	79.9	430	---	2300
762	79.9	81.4	35	---	30
763	81.4	82.9	420	---	420
764	82.9	84.4	20	---	240
765	84.4	86.4	15	---	10
766	86.4	88.4	60	---	20
767	88.4	90.4	170	---	10
768	93.0	95.0	30	---	80
769	95.0	96.0	50	---	1300
770	96.0	98.0	10	---	30
775	102.6	103.9	30	---	1830
774	103.9	104.9	L.5	---	30
771	113.5	114.5	10	---	760
772	114.5	115.5	340	---	6400
773	115.5	116.5	L.5	---	500
776	116.5	118.5	5	---	3200
777	118.5	120.5	40	---	2900
778	120.5	122.5	40	---	2300
779	122.5	124.5	5	---	20
780	124.5	126.5	220	---	3600
781	126.5	128.5	170	---	5000
782	128.5	129.9	20	---	160
783	129.9	130.8	30	---	10
784	130.8	132.9	5000	4.05	1100
785	132.9	134.0	25	---	4200
786	134.0	135.5	760	+5000	2600
787	135.5	137.5	20	---	1340
788	137.5	139.5	10	---	3200
789	139.5	141.5	10	---	1400
790	141.5	143.5	10	---	1600
791	143.5	145.5	5	---	740
792	145.5	147.5	100	---	2000
793	147.5	149.5	L.5	---	1180
794	149.5	152.0	L.5	---	180
795	152.0	153.2	110	---	2200
796	153.2	154.2	10	---	1100
797	167.2	168.2	200	---	790
798	178.9	179.9	240	---	980
799	179.9	181.9	1350	1.50	340
800	181.9	184.7	710	+5000	110
750F	184.7	185.7	50	---	10
751F	218.2	218.3	3250	3.20	30
752F	231.7	232.3	1800	1.60	10
753F	233.7	234.7	3100	3.50	40
754F	246.5	247.5	310	---	20
755F	268.5	270.5	1300	1.10	30
756F	270.5	272.5	50	---	10
757F	274.9	276.4	140	---	1500
758F	276.4	277.5	130	---	110
759F	279.0	281.0	50	---	20
760F	287.3	288.3	140	---	10
761F	291.0	293.0	760	---	760
762F	293.0	295.0	170	---	270
763F	295.0	297.0	30	---	2500
764F	297.0	299.0	20	---	460
765F	299.0	301.0	180	---	1540
766F	301.0	303.0	170	---	230
767F	303.0	305.0	210	---	220
768F	305.0	307.0	300	---	2100
769F	307.0	309.0	30	---	2600
770F	309.0	311.0	30	---	20
771F	311.0	313.0	410	---	580
772F	313.0	314.9	210	---	10

**B84-3**

Sample No.	From	To	Au(ppb)	Au(g)	As(ppm)
60	27.0	29.0	70	---	920
702	29.0	32.0	1370	0.90	1510
703	32.0	34.0	320	---	1830
704	34.0	36.0	50	---	760
705	36.0	38.0	630	---	6400
706	38.0	40.5	40	---	300
492	40.5	42.5	50	---	500
280	42.5	45.0	500	---	3200
707	45.0	47.0	520	---	2900
708	47.0	49.0	360	---	2300
709	49.0	51.1	15	---	20
494	51.1	53.1	430	---	3600
710	55.1	57.1	5	---	5000
495	53.1	55.1	610	---	300
711	57.1	60.5	L.5	---	160
496	60.5	63.3	180	---	10
497	63.3	65.3	2450	3.15	1100
498	65.3	67.3	3200	2.30	4200
499	67.3	69.3	460	---	2600
500	69.3	71.3	1710	2.80	1340
523	71.3	73.3	520	---	3200
524	73.3	75.3	360	---	1400
525	75.3	77.3	50	---	1600
526	77.3	79.3	430	---	740
527	79.3	81.5	71	---	2000
528	81.5	83.5	L.5	---	1180
529	83.5	85.5	70	---	180
530	85.5	87.5	70	---	2200
531	87.5	89.5	120	---	1100
712	89.5	91.5	50	---	790
713	91.5	93.5	25	---	980
496	60.5	63.3	180	---	340
497	63.3	65.3	2450	3.15	1100
498	65.3	67.3	3200	2.30	4200
499	67.3	69.3	460	---	2600
500	69.3	71.3	1710	2.80	1340
523	71.3	73.3	520	---	3200
524	73.3	75.3	360	---	1400
525	75.3	77.3	50	---	1600
526	77.3	79.3	430	---	740
527	79.3	81.5	71	---	2000
528	81.5	83.5	L.5	---	1180
529	83.5	85.5	70	---	180
530	85.5	87.5	70	---	2200
531	87.5	89.5	120	---	1100
712	89.5	91.5	50	---	790
713	91.5	93.5	25	---	980

**DDH B84-4**

Sample No.	From	To	Au(ppb)	Au(g)	As(ppm)
535	9.1	11.0	640	---	3000
536	11.0	13.0	3100	4.10	+10000
537	13.0	14.0	3300	2.40	1880
538	14.0	17.0	210	---	840
539	17.0	20.0	50	---	30
540	20.0	22.0	15	---	30
541	22.0	24.0	450	---	2350
542	24.0	26.0	85	---	260
543	26.0	28.0	180	---	30
544	28.0	30.0	25	---	20
545	30.0	32.0	L.5	---	10
546	39.0	41.0	L.5	---	760
547	46.7	48.7	L.5	---	270
548	67.0	69.0	150	---	2500
549	69.0	71.0	70	---	460
550	109.3	110.0	1340	1.40	1540
551	121.0	123.0	25	---	230
552	123.0	125.0	50	---	220
553	169.5	172.5	180	---	1480
554	172.5	173.0	---	---	---
555	173.0	174.5	9400	10.60	+10000
556	193.0	195.0	85	---	160
557	195.0	197.0	40	---	280

**LEGEND**

**GEOLOGICAL LEGEND**

- OVERBURDEN
- GRAPHITE SCHIST
- CHLORITE FELDSPAR SCHIST
- CHLORITE SCHIST
- CHLORITE SCHIST (NUMEROUS QTZ. SEGREGATIONS)
- SPOTTED CHLORITE SCHIST
- CALCAREOUS CHLORITE SCHIST
- QUARTZ-MUSCOVITE CARBONATE SCHIST
- DIABASE DYKE

**SYMBOLS**

- BRECCIA
- QUARTZ VEIN CONTAINING PY AND AsPY
- FAULT GOUGE
- SCHISTOSITY
- SAMPLE INTERVAL CONTAINING GOLD ASSAY > 0.2 GRAMS.
- V.G. VISIBLE GOLD

SAMPLE NO.	Au (g)	As (%)	SAMPLE NO.
454	0.840	0.270	4954

**ASSAY SCALE**

- ≥ 5.0
- 1.0 - 5.0
- 0.5 - 1.0
- 0.2 - 0.5

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**12,559**

*J.L. Karalchik*

**CSA MINERALS INC.**

**BILL PROJECT**

**DIAMOND DRILL HOLE SECTION 4900 E.**

D.D.H. B84-3, B84-4, B84-5

FACING WEST

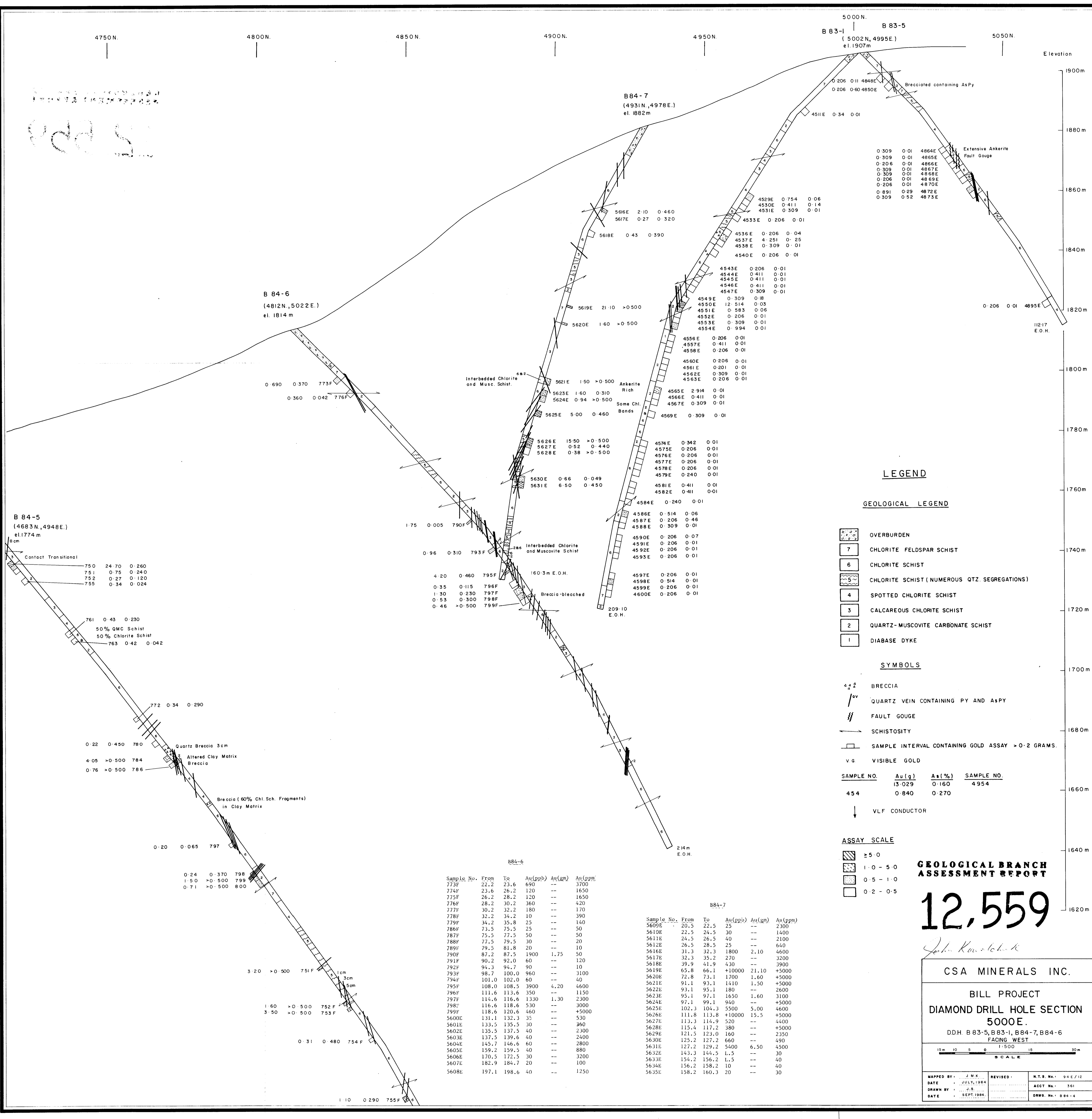
15m 10 5 0 1:500 15 30m

**SCALE**

MAPPED BY: J.M.K.	REVISED:	N.T.S. No.: 94 E/12
DATE: JULY, 1988		ACCT No.: 361
DRAWN BY: J.S.		DRWG. No.: B84-3
DATE: AUG. 1988		

4750N. 4800N. 4850N. 4900N. 4950N. 5000N. 5050N.

Elevation  
1900m  
1880m  
1860m  
1840m  
1820m  
1800m  
1780m  
1760m  
1740m  
1720m  
1700m  
1680m  
1660m  
1640m  
1620m



**LEGEND**

**GEOLOGICAL LEGEND**

- OVERBURDEN
- CHLORITE FELDSPAR SCHIST
- CHLORITE SCHIST
- CHLORITE SCHIST (NUMEROUS QTZ. SEGREGATIONS)
- SPOTTED CHLORITE SCHIST
- CALCAREOUS CHLORITE SCHIST
- QUARTZ-MUSCOVITE CARBONATE SCHIST
- DIABASE DYKE

**SYMBOLS**

- BRECCIA
  - QUARTZ VEIN CONTAINING PY AND ASPY
  - FAULT GOUGE
  - SCHISTOSITY
  - SAMPLE INTERVAL CONTAINING GOLD ASSAY > 0.2 GRAMS.
  - V.G. VISIBLE GOLD
- | SAMPLE NO. | Au (g) | As (%) | SAMPLE NO. |
|------------|--------|--------|------------|
| 13029      | 0.160  | 4954   |            |
| 454        | 0.840  | 0.270  |            |
- VLF CONDUCTOR

**ASSAY SCALE**

- ≥ 5.0
- 1.0 - 5.0
- 0.5 - 1.0
- 0.2 - 0.5

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**12,559**

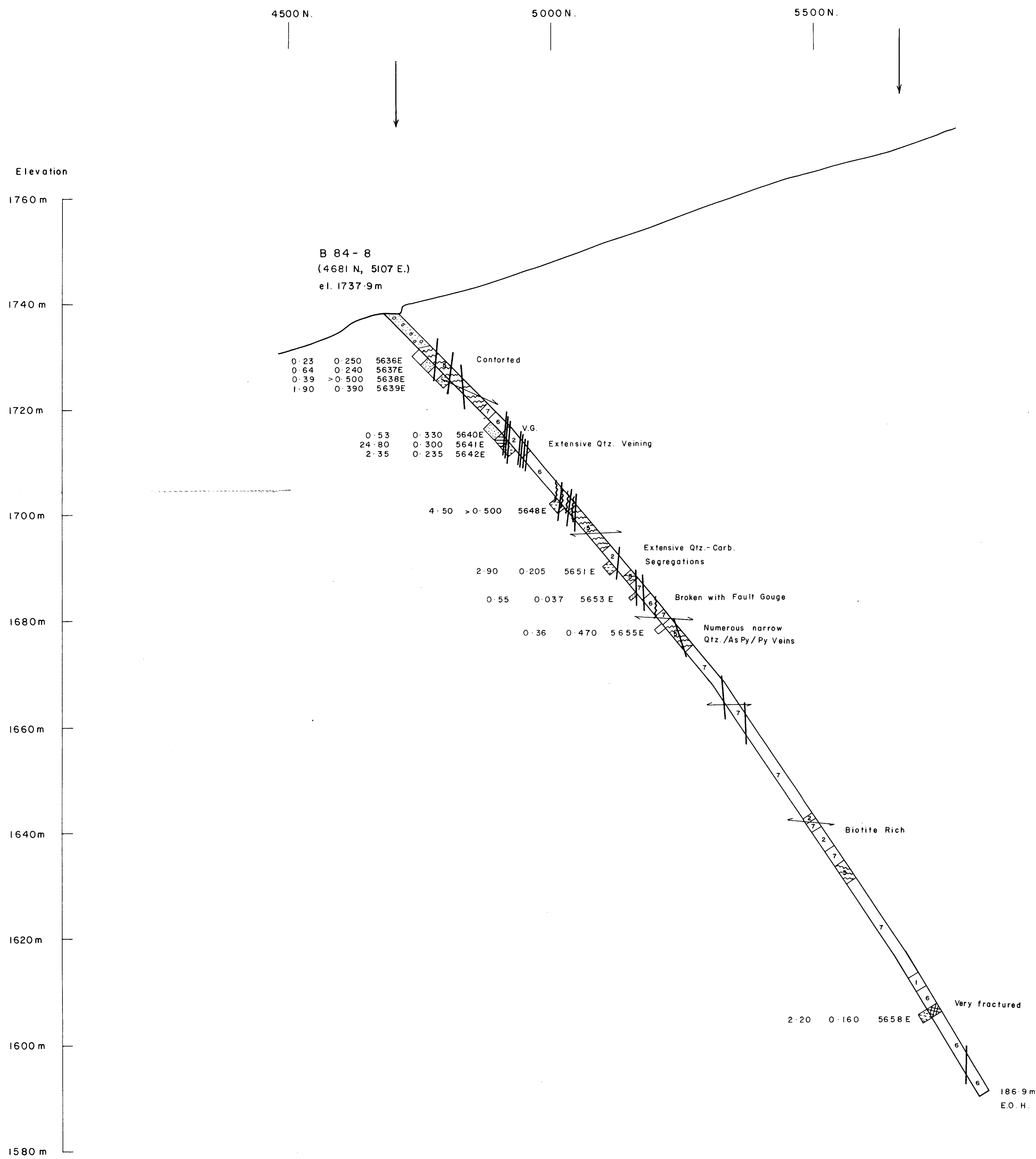
*John Kowalski*

**CSA MINERALS INC.**

**BILL PROJECT**  
**DIAMOND DRILL HOLE SECTION**  
**500E.**  
 DDH. B 83-5, B 83-1, B 84-7, B 84-6  
 FACING WEST

15m 10 5 0 1:500 15 30m  
SCALE

MAPPED BY	DATE	REVISION	DATE	W.T.S. No.	DATE
J.M.K.	JULY, 1984			94E/12	
J.S.	SEPT. 1984			ACCT No. 361	
				DRWG. No. B 84-4	



B 84 - 8  
(4681 N, 5107 E.)  
el. 1737.9m

0-23 0-250 5636E  
0-64 0-240 5637E  
0-39 >0-500 5638E  
1-90 0-390 5639E

0-53 0-330 5640E  
24-80 0-300 5641E  
2-35 0-235 5642E

4-50 >0-500 5648E

2-90 0-205 5651E

0-55 0-037 5653E

0-36 0-470 5655E

2-20 0-160 5658E

186.9m  
E.O.H.

B84-8

Sample No.	From	To	Au(ppb)	Au(g.)	As(ppm)
5636E	9.7	11.9	230	--	2500
5637E	11.9	13.9	640	--	2400
5638E	13.9	16.1	390	--	+5000
5639E	16.1	18.2	1500	1.90	3900
5640E	29.0	31.9	530	--	3300
5641E	31.9	33.9	+10000	24.80	3000
5642E	33.9	36.1	2200	2.35	2350
5643E	36.1	38.0	40	--	50
5647E	46.3	48.2	120	--	2750
5648E	48.2	50.6	3900	4.50	+5000
5649E	50.6	52.6	80	--	720
5650E	61.7	63.7	40	--	170
5651E	63.7	65.7	2300	2.90	2050
5652E	65.7	67.8	80	--	290
5653E	71.5	71.9	550	--	370
5654E	72.5	73.8	40	--	500
5655E	84.1	85.0	360	--	4700
5659E	110.0	112.6	10	--	40
5657E	163.3	163.8	40	--	130
5658E	168.0	169.4	2000	2.20	1600
5659E	179.3	180.0	10	--	30
5660E	183.5	185.0	10	--	30
5661E	185.0	186.9	1.5	--	20

### LEGEND

#### GEOLOGICAL LEGEND

- OVERBURDEN
- 7 CHLORITE FELDSPAR SCHIST
- 6 CHLORITE SCHIST
- 5 CHLORITE SCHIST (NUMEROUS QTZ. SEGREGATIONS)
- 4 SPOTTED CHLORITE SCHIST
- 3 CALCAREOUS CHLORITE SCHIST
- 2 QUARTZ-MUSCOVITE CARBONATE SCHIST
- 1 DIABASE DYKE

#### SYMBOLS

- /py QUARTZ VEIN CONTAINING PY AND AsPY
  - // FAULT GOUGE
  - SCHISTOSITY
  - SAMPLE INTERVAL CONTAINING GOLD ASSAY >0.2 GRAMS.
  - v.g. VISIBLE GOLD
- | SAMPLE NO. | Au (g) | As (%) | SAMPLE NO. |
|------------|--------|--------|------------|
| 13-029     | 0-160  |        | 4954       |
| 454        | 0-840  | 0-270  |            |
- ↓ VLF CONDUCTOR

#### ASSAY SCALE

- ≥ 5.0
- 1.0 - 5.0
- 0.5 - 1.0
- 0.2 - 0.5

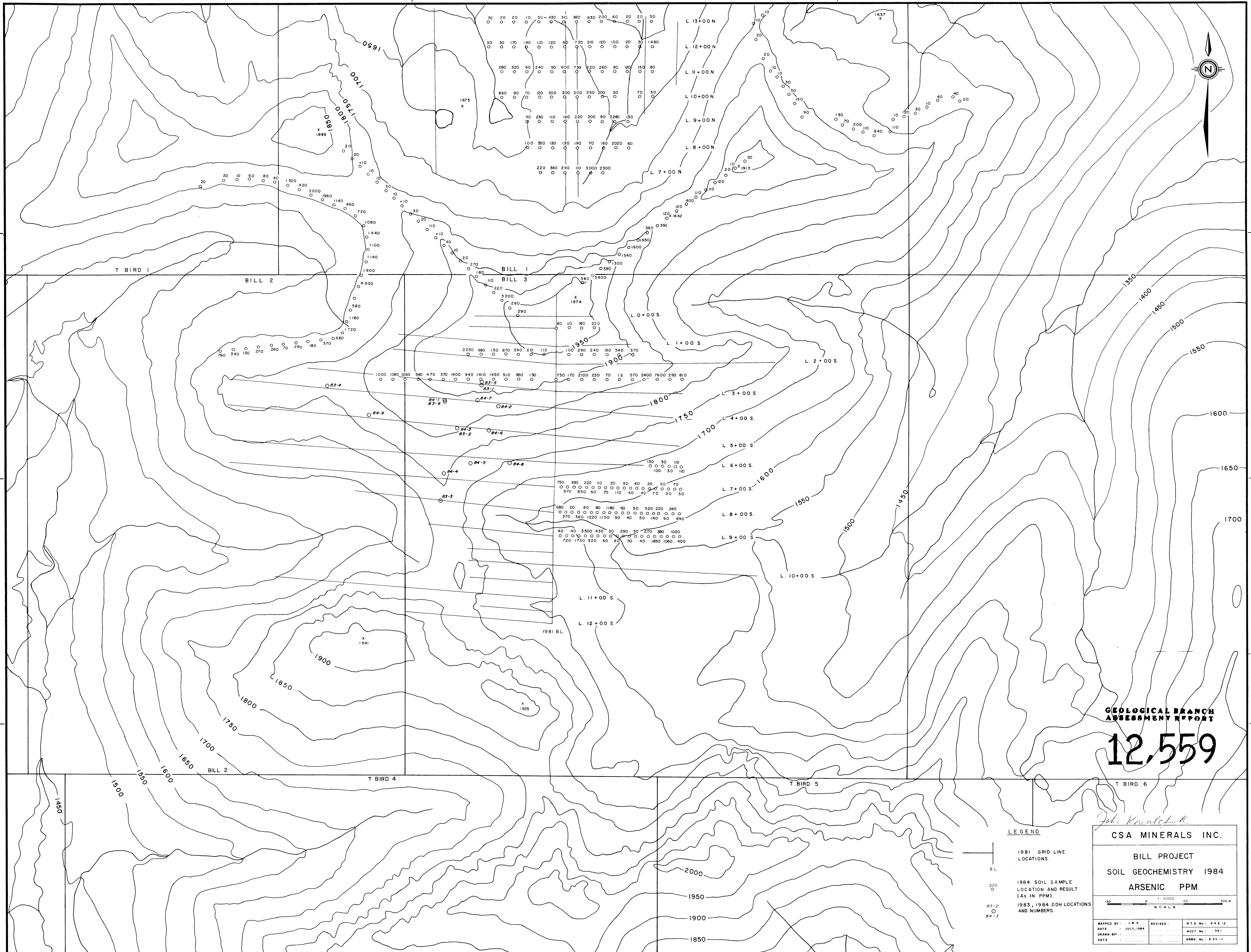
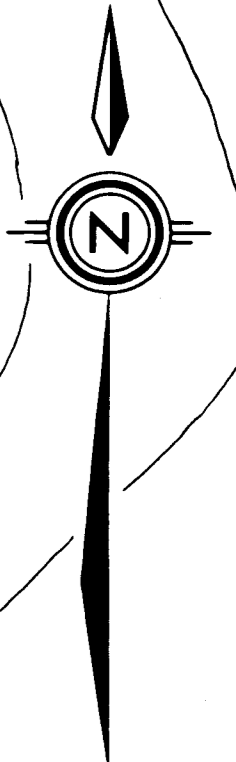
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**12,559**

*John Kovalchuk*

<b>CSA MINERALS INC.</b>		
BILL PROJECT DIAMOND DRILL HOLE SECTION 5100 E. D.D.H. B84-8 (6+25S., 1+90W.) FACING WEST		
1:500 SCALE		
MAPPED BY: J.M.K.	REVISED:	N.T.S. No.: 94E/12
DATE: JULY 1984		ACCT No.: 361
DRAWN BY: J.S.		DRWG. No.: B84-5
DATE: AUG. 1984		





GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,559

LEGEND

- 1981 GRID LINE LOCATIONS.
- 1984 SOIL SAMPLE LOCATION AND RESULT (As in PPM).
- 1983, 1984 DDH LOCATIONS AND NUMBERS.

*Johs Kovalchuk*

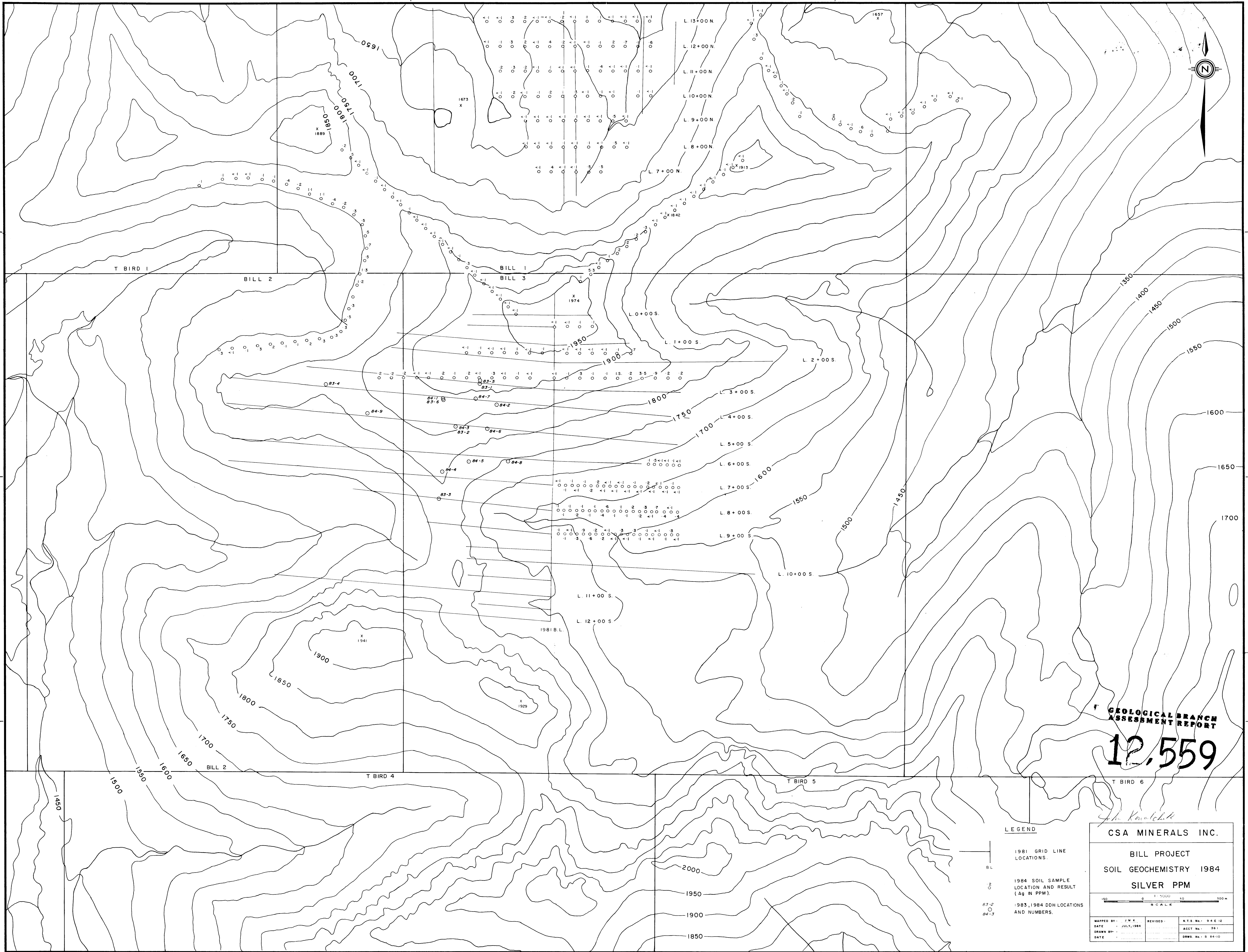
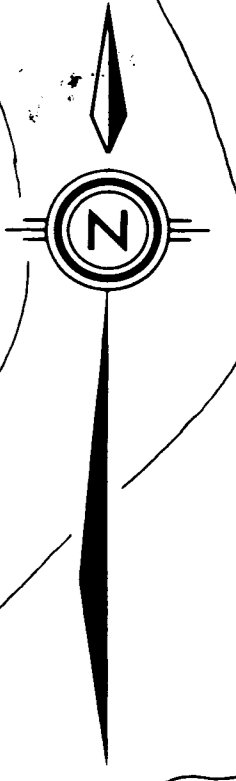
CSA MINERALS INC.

BILL PROJECT  
SOIL GEOCHEMISTRY 1984  
ARSENIC PPM

1:5000  
SCALE

MAPPED BY: J.M.K.	REVISED:	N.T.S. No: 54 E 12
DATE: JULY, 1984		ACCT No: 361
DRAWN BY:		DRWS. No: B 84-11
DATE:		





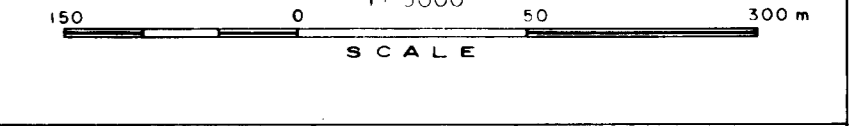
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,559

*John Knowlton*

CSA MINERALS INC.

BILL PROJECT  
SOIL GEOCHEMISTRY 1984  
SILVER PPM

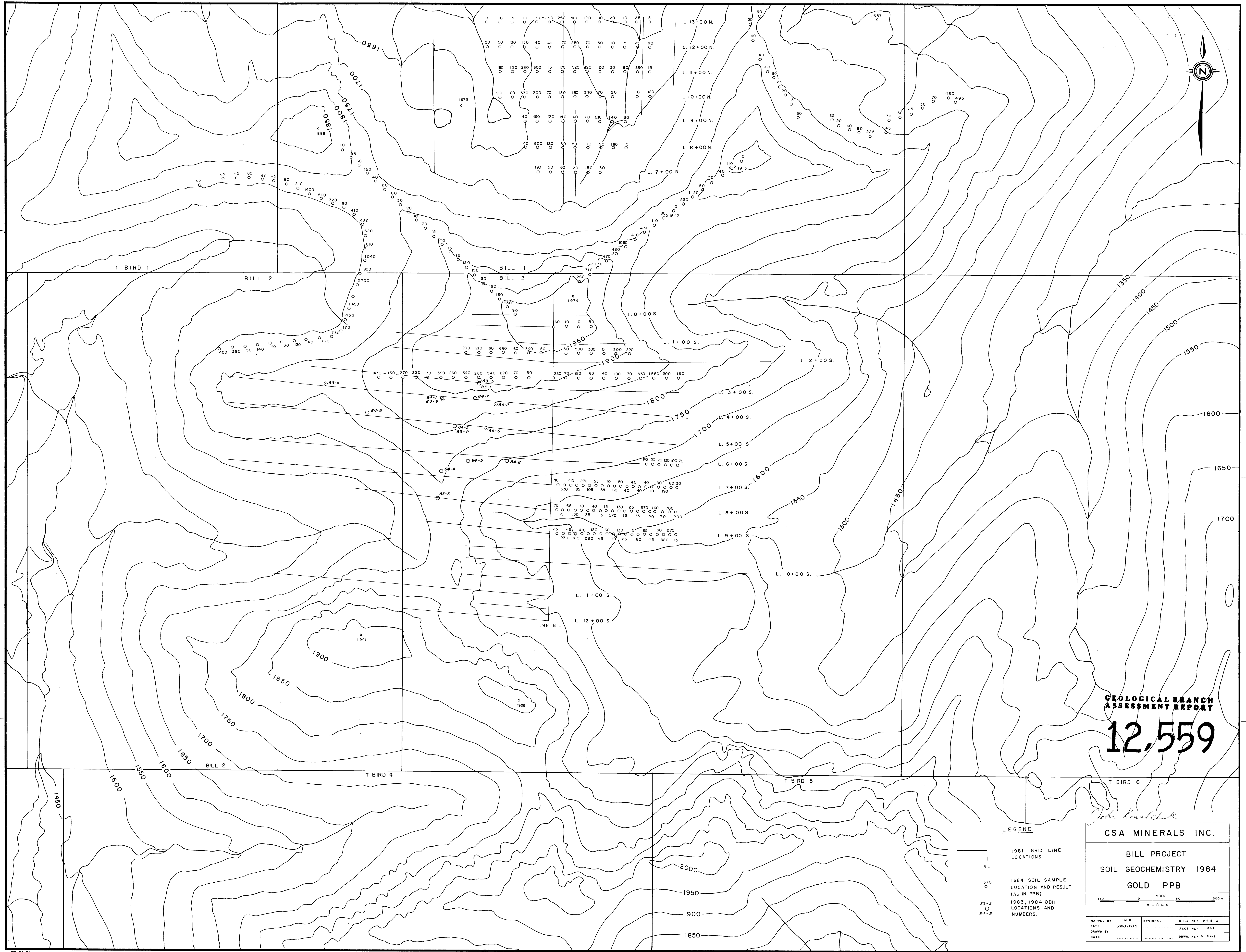
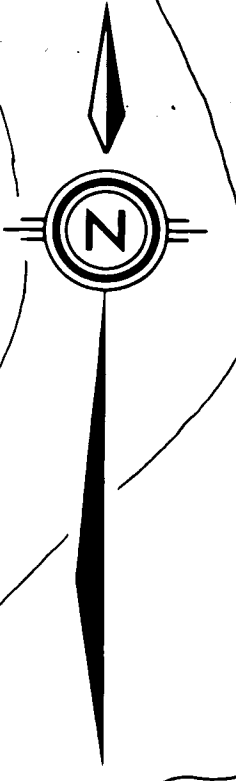


LEGEND

- 1981 GRID LINE LOCATIONS.
- 1984 SOIL SAMPLE LOCATION AND RESULT (Ag IN PPM).
- 1983, 1984 DDH LOCATIONS AND NUMBERS.

MAPPED BY: J.M.K.	REVISED:	N.T.S. No.: 94 E 12
DATE: JULY, 1984		ACCT No.: 351
DRAWN BY:		DATE:
		DRWG. No.: B 84-10





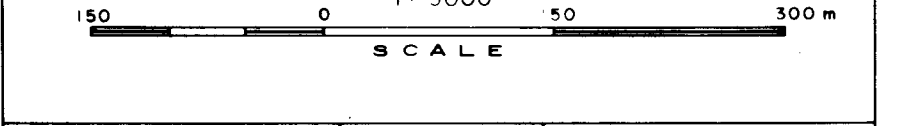
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**12,559**

*John Kovalchuk*

CSA MINERALS INC.

BILL PROJECT  
SOIL GEOCHEMISTRY 1984  
GOLD PPB

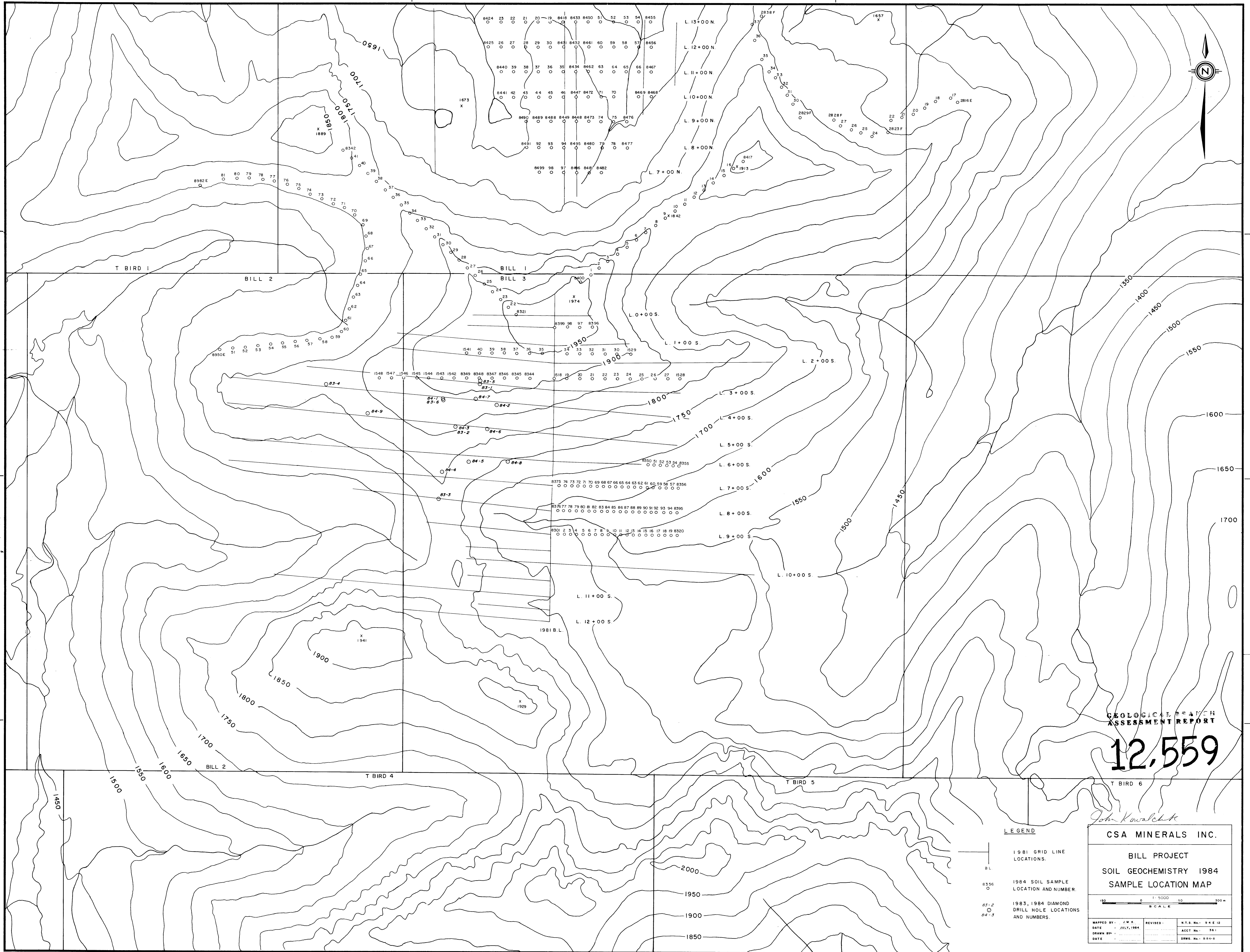
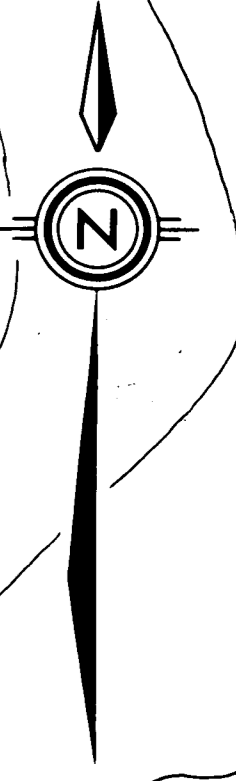


LEGEND

- 1981 GRID LINE LOCATIONS
- 1984 SOIL SAMPLE LOCATION AND RESULT (AU IN PPB)
- 1983, 1984 DDH LOCATIONS AND NUMBERS.

MAPPED BY: J.M.K.	REVISED:	N.T.S. No.: 94 E 12
DATE: JULY, 1984		ACCT. No.: 361
DRAWN BY:		DRWS. No.: D 84-9
DATE:		





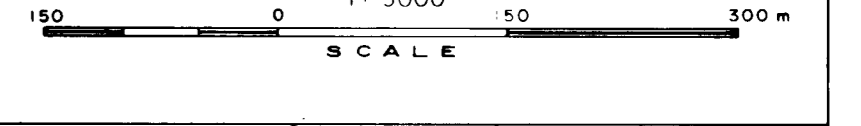
GEOLOGICAL RESEARCH  
ASSESSMENT REPORT

12,559

*John Kowalchuk*

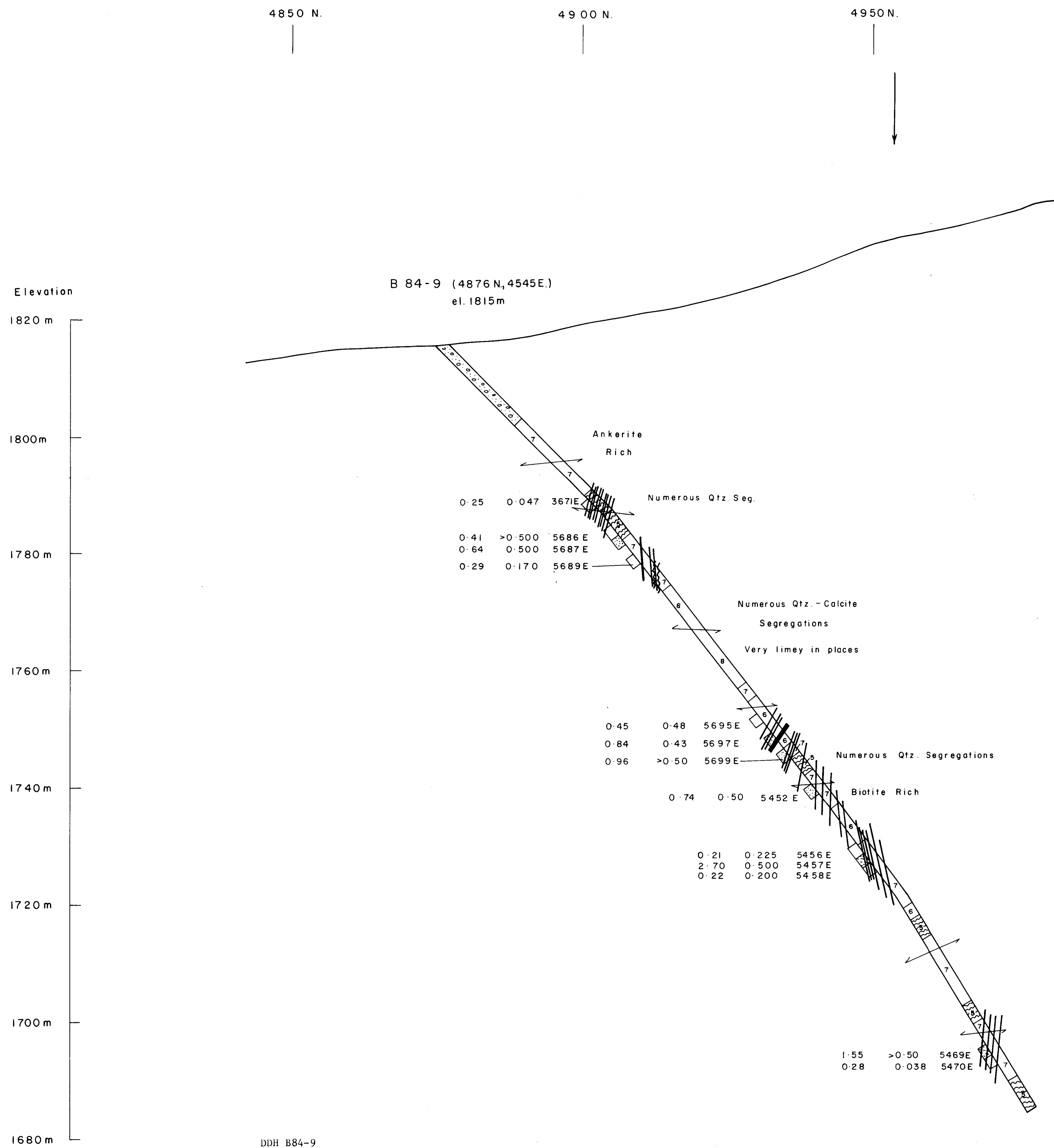
CSA MINERALS INC.

BILL PROJECT  
SOIL GEOCHEMISTRY 1984  
SAMPLE LOCATION MAP



MAPPED BY: J.M.K.	REVISED:	N.T.S. No.: 94 E 12
DATE: JULY, 1984		ACCT. No.: 361
DRAWN BY:		DATE:
		DRWS. No.: 84-8

- LEGEND**
- 1981 GRID LINE LOCATIONS.
  - 8356 1984 SOIL SAMPLE LOCATION AND NUMBER.
  - 83-2 1983, 1984 DIAMOND DRILL HOLE LOCATIONS AND NUMBERS.
  - 84-3



**LEGEND**

**GEOLOGICAL LEGEND**

- OVERBURDEN
- 8 GRAPHITE SCHIST
- 7 CHLORITE FELDSPAR SCHIST
- 6 CHLORITE SCHIST
- CHLORITE SCHIST (NUMEROUS QTZ. SEGREGATIONS)
- 4 SPOTTED CHLORITE SCHIST
- 3 CALCAREOUS CHLORITE SCHIST
- 2 QUARTZ-MUSCOVITE CARBONATE SCHIST
- 1 DIABASE DYKE

**SYMBOLS**

- Quartz vein containing py and As<sub>py</sub>
  - Fault gouge
  - Schistosity
  - Sample interval containing gold assay > 0.2 grams.
  - v.g. Visible gold
- | SAMPLE NO. | Au (g) | As (%) | SAMPLE NO. |
|------------|--------|--------|------------|
|            | 13.029 | 0.160  | 4954       |
| 454        | 0.840  | 0.270  |            |
- VLF CONDUCTOR

**ASSAY SCALE**

- ≥ 5.0
- 1.0 - 5.0
- 0.5 - 1.0
- 0.2 - 0.5

DDH B84-9

Sample No.	From	To	Au (ppb)	Au (g)	As (ppm)
5662E	18.9	20.9	1.5	--	220
5663E	20.9	22.9	5	--	130
5664E	22.9	24.9	10	--	140
5665E	24.9	26.9	20	--	290
5666E	26.9	28.9	1.5	--	80
5667E	28.9	30.9	20	--	90
5668E	30.9	32.9	20	--	60
5669E	32.9	34.9	5	--	30
5670E	34.9	36.9	30	--	170
5671E	36.9	38.9	250	--	470
5672E	38.9	40.9	20	--	240
5685E	40.9	42.9	70	--	570
5686E	42.9	44.9	410	--	+5000
5687E	44.9	46.9	640	--	5000
5688E	46.9	48.9	110	--	340
5689E	48.9	50.9	290	--	1700
5690E	50.9	52.9	80	--	760
5691E	52.9	54.9	30	--	1100
5692E	54.9	56.9	20	--	510
5693E	56.9	58.9	20	--	580
5694E	58.9	60.9	1.5	--	40
5695E	60.9	62.9	450	--	4800
5696E	62.9	64.9	1.5	--	40
5697E	64.9	66.9	840	--	4300
5698E	66.9	68.9	10	--	230
5699E	68.9	70.9	960	--	+5000
5450E	93.3	95.9	120	--	2100
5451E	96.8	98.8	1.5	--	80
5452E	98.8	100.8	740	--	3000
5453E	100.8	102.8	30	--	10
5454E	104.6	107.0	5	--	10
5455E	108.2	108.5	10	--	10
5456E	111.6	113.6	210	--	2250
5457E	113.6	115.6	2700	1.90	5000
5458E	115.6	117.6	220	--	2000
5459E	117.6	119.6	160	--	1550
5460E	119.6	121.6	40	--	480
5461E	121.6	123.6	10	--	530
5462E	123.6	125.5	10	--	130
5463E	125.5	127.0	20	--	80
5464E	131.6	133.6	170	--	110
5465E	142.1	144.5	1.5	--	10
5466E	145.8	148.6	1.5	--	10
5467E	148.6	150.6	1.5	--	10
5468E	150.6	152.6	5	--	100
5469E	152.6	154.6	1550	2.05	+5000
5470E	154.6	156.6	280	--	380
5471E	156.6	158.6	10	--	20
5472E	158.6	159.8	15	--	10

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**12,559**

*John Kowalchuk*

**CSA MINERALS INC.**

**BILL PROJECT**

**DIAMOND DRILL HOLE SECTION**

**4550 E.**

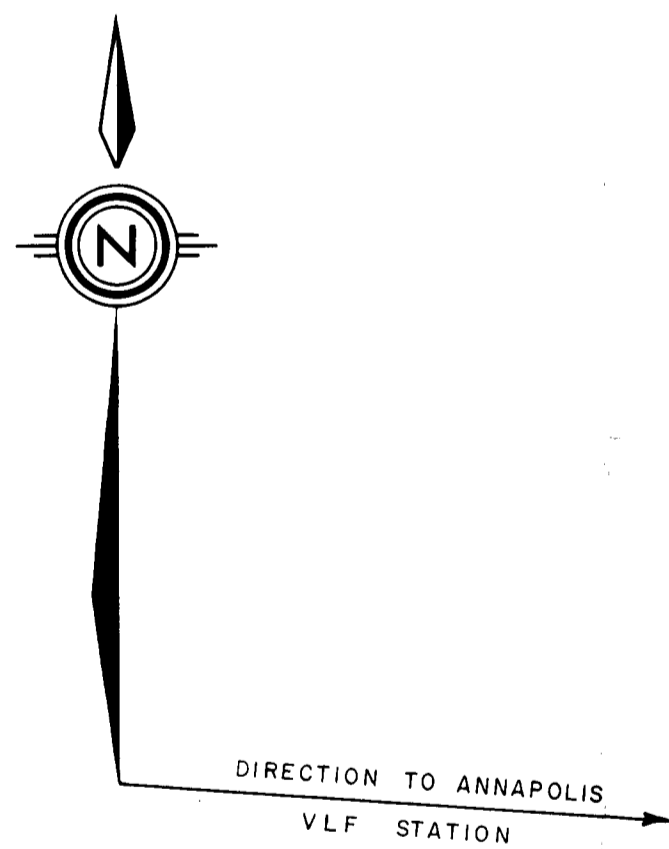
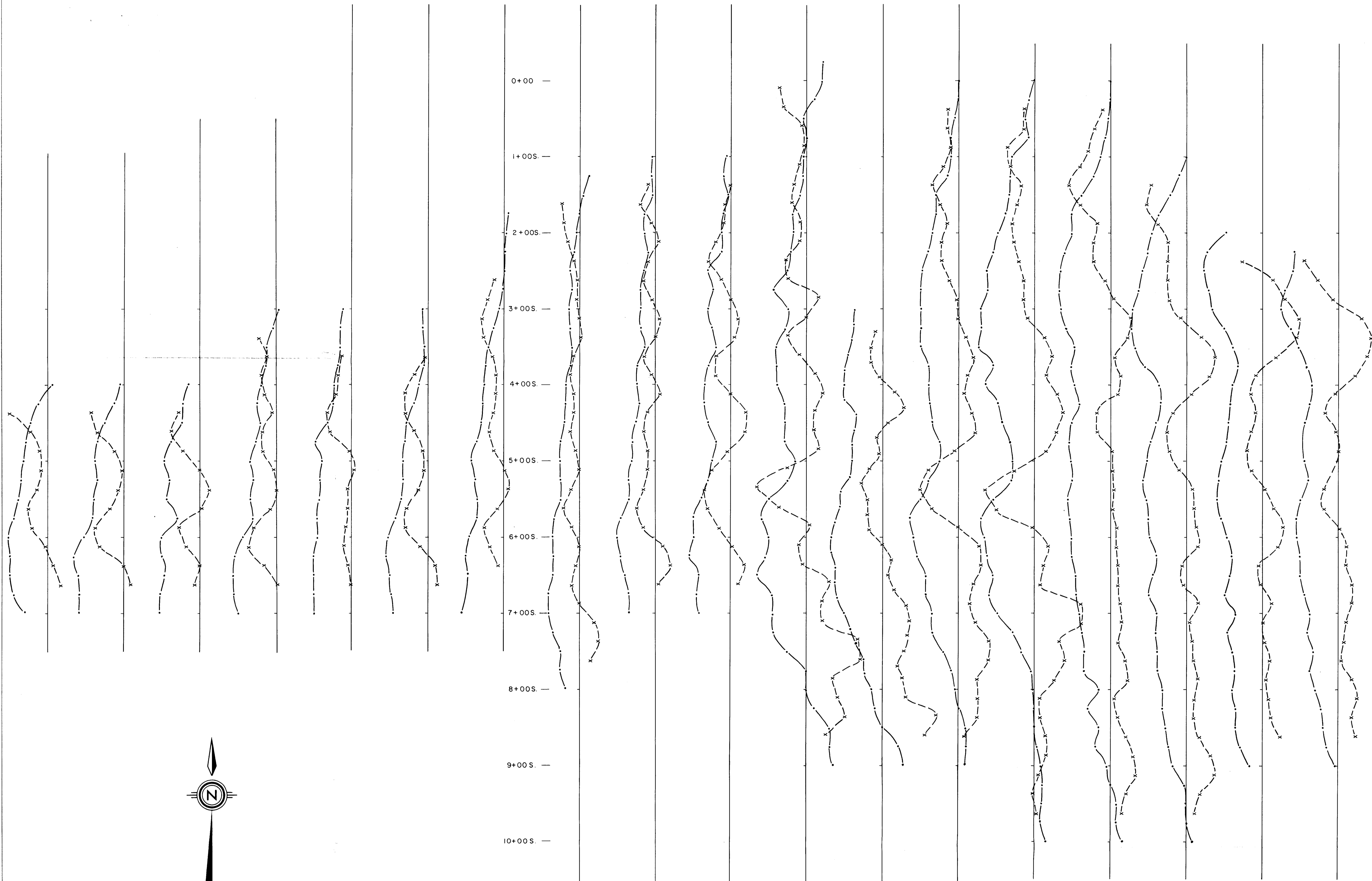
**DDH. B 84-9 (5+00S, 7+50W.)**

**FACING WEST**

15m 10 5 0 1:500 15 30m  
SCALE

MAPPED BY: J.M.K.	REVISED:	N.T.S. No.: 94 E/12
DATE: JULY 1984		ACCT No.: 361
DRAWN BY: J.S.		DRWG. No.: 884-6
DATE: AUG 1984		

L. 12+00 W. L. 11+00 W. L. 10+00 W. L. 9+00 W. L. 8+00 W. L. 7+00 W. L. 6+00 W. L. 5+00 W. L. 4+00 W. L. 3+00 W. L. 2+00 W. L. 1+00 W. BL. 0+00 L. 1+00 E. L. 2+00 E. L. 3+00 E. L. 4+00 E. L. 5+00 E.



**LEGEND**

DIP ANGLES

+20 +10 -10 -20

LINE

— RAW DATA

-x-x-x- FRASER FILTERED DATA

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

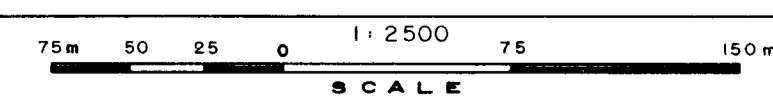
**12,559**

*John Kovalchuk*

CSA MINERALS INC.

BILL PROJECT

VLF ORIENTATION SURVEY



MAPPED BY: JMK	REVISED:	N.T.S. No.: 94 E/12
DATE: JULY 1984		ACCT No.: 361
DRAWN BY: J.S.		DRWG. No.: 8-84-7
DATE: AUG. 1984		