SCOTIA ZINC PROPERTY
1984 EXPLORATION DRILL PROGRAM
GEOLOGICAL EVALUATION REPORT

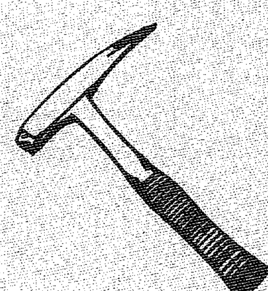
on

SCOTIA No.1-1418 AND SCOTIA No.2-1419
ALBERE Nos. 1-4, RECORD Nos. 19318-19321
N.T.S. SHEET 103-I-4E
SKEENA MINING DIVISION
BRITISH COLUMBIA
LATITUDE 54°05'N. — LONGITUDE 129°40'W.

Claim Owner
KIDD CREEK MINES LTD.
VANCOUVER, BRITISH COLUMBIA
Operator
ANDAUREX RESOURCES INC.
TORONTO, ONTARIO

by

R.G. HILKER, P. ENG.
TRON DUIK CONSULTANTS LTD.
CALGARY, ALBERTA
MAY 14, 1985



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SECTION #3 - D.D.H. SCALE 1cm = 5m AR-84-10

SECTION #4 - D.D.H. SCALE 1cm = 5m AR-84-11

SECTION #5 - D.D.H. SCALE 1cm = 5m AR-84-3

SECTION #6 - D.D.H. SCALE 1cm = 5m AR-84-4

SECTION #7 - D.D.H. SCALE 1cm = 5m AR-84-5,6

SECTION #8 - D.D.H. SCALE 1cm = 5m AR-84-8

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INTRODUCTION:

The Scotia zinc mineralized property is located 42 kilometres or 26 miles southeast of Prince Rupert, British Columbia. The Scotia 1 and 2 claims enclose 26 units that overstake the Albere 1 - 4 claims and are situated in the Skeena Mining Division, on NTS Sheet 103-I-4E. The property was first discovered in 1958 and exploration was conducted in 1960, 1977, 1980 and 1981. The exploration consisted of diamond drilling in 1960, 1980 and 1981; surface geological mapping; geochemical soil sampling and property re-evaluation in 1977; geophysical borehole pulse Electro-Magnetic Survey, within the 1981 diamond drill holes.

The West Ridge Scotia prospect is exposed in a large spectacular gossan zone, that contains massive sphalerite mineralization. The gossan zone and massive sphalerite, within drag folds, is centered at an approximate elevation of 2,780 feet or 847 metres. The West Ridge is situated on a mountain slope that faces south, between an upper ridge elevation of 3,800 feet or 1,158 metres and the lower creek valley at an elevation of 1,000 feet or 305 metres. The slope decreases in elevation, from the ridge to the creek, 853 metres vertically along a horizontal distance of 1,416 metres. The West Ridge and south face of the mountain slopes -31^{o} with a grade of 60%. The mountain slope terrain is situated in a north-south direction and the massive sphalerite zone strikes $N20^{o}W$ upslope from the 847 metre elevation gossan stained outcrop. Therefore, because of the upslope terrain it is difficult to locate drill sites on the West Ridge to intersect the 853 metre level of the sphalerite mineralized zone that strikes $N20^{o}W$ and dips 40^{o} southwest.

The south slope of the mountain and drill site area contains sparsely scattered coniferous species of trees. The coniferous trees are medium size from 10 - 15 metres in height, scattered and of no commercial timber value. The species noted were Rocky Mountain juniper, balsam fir, Douglas fir and Western hemlock. Small willows are abundant in the open areas and under the coniferous trees. Moss grows from the lower branches of the larger trees and is draped downward to the ground.

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The Scotia property is within 32 kilometres of Chatham Sound, Hecate Strait, Dixon Entrance and the Pacific Ocean. The property is on the west side of the Kitimat Ranges of the Coast Mountains and within the coastal rainbelt. The area receives abundant rainfall from May to November and heavy snowfall at higher elevations from December through April. During the summer months broken low cloud or "clagg" extends from the valley bottoms to above the mountain tops with almost daily light rain. Occasionally severe rainstorms are accompanied by winds in the 48 - 80 kmph range. The low hanging "clagg" or cloud cover prevents fixed wing flying and hazardous heliocopter flying in the rugged mountain terrain. The possibility of the most favourable weather conditions occurs between the third week of August through the third week of October.

The Scotia property and area between Prince Rupert, Skeena River, Terrace and Smithers is extremely beautiful in late summer and fall when the weather clears and sunshine with a blue sky prevails.

The writer wishes to acknowledge and thank Mr. P. R. DeLancey, Regional Manager of the Western Canada Exploration Division, Kidd Creek Mines Ltd. - Vancouver, B.C., for his very valuable personal communications concerning the Scotia massive sulphide property.

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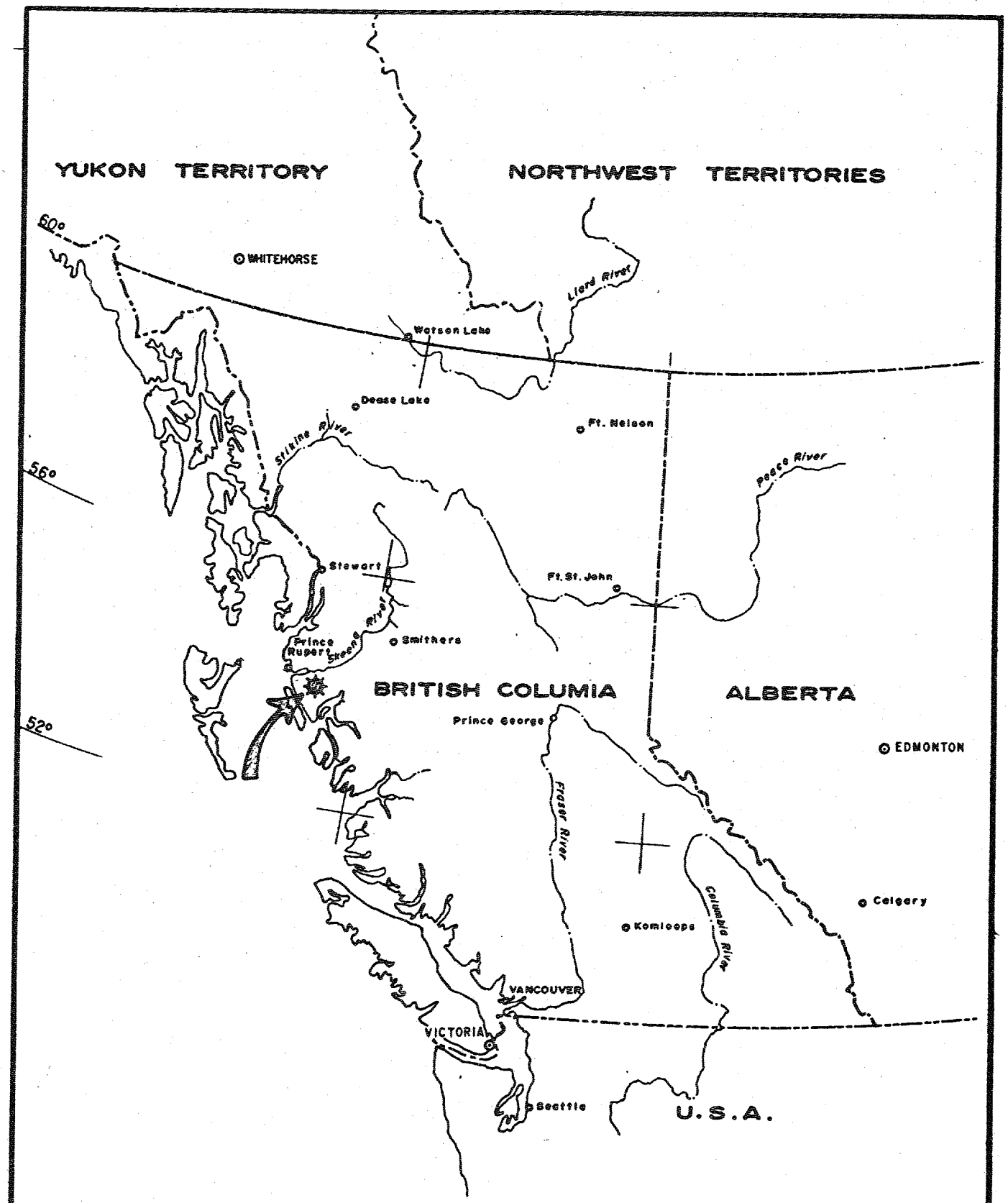

ANDAUREX RESOURCES INC.
WEST SCOTIA PROPERTY - B.C.
LOCATION MAP

Figure No. 1

LOCATION AND ACCESS:

General

The Scotia property is located 42 kilometres southeast of Prince Rupert, British Columbia. The port of Prince Rupert is situated on Kaien Island and the inlet of Prince Rupert Harbour. Road access between Terrace and Prince Rupert is by the paved Highway #16 on the north side of the Skeena Tidal River. The Canadian National Railway tracks are located adjacent to Highway #16 between Terrace and Prince Rupert. The Scotia claim group is located 12 kilometres S05^{o}W of Telegraph Point on the north bank of the Skeena River and Highway #16. A logging operator has constructed a camp and river barge landing dock near the confluence of Scotia Creek with the Skeena River. The barge landing site is located on the south bank of the Skeena River and south of Carnation Island. Access to Scotia Creek is possible by hauling equipment on Highway #16 from Prince Rupert or Terrace and by river barge from Tyee Landing at Highway #16, 23 kilometres upstream to Scotia Landing. The Skeena River is tidal from the Inverness and Telegraph Passages upstream to Terrace.

Heliocopter charter service is available from Prince Rupert, Terrace and Smithers, British Columbia. Access to the Scotia property is currently only possible by moving all camp gear, exploration supplies, drill equipment and personnel by Bell 204B Jetranger from a roadcut between Highway #16 and the CNR Tracks two miles east of Telegraph Point.

The Scotia Creek logging operator and British Columbia Forestry Service Department has constructed an excellent logging road 13 kilometres in length upstream on the west bank of the Scotia drainage system. The reader is referred to the Scotia Property Topography Plan - Showing Existing and Proposed Roads, Scale 1:25,000. To continue the existing road on Scotia Creek to an elevation of 838 metres on the Scotia claim group and the Albere #1 claim, requires 6 additional kilometres of road. Road building to the Scotia property will cost approximately $15,000 per kilometre by backhoe equipment for sidehill construction.

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Road construction in mountain valleys costs about $5,000 per kilometre using backhoe equipment. The backhoe method of road construction is used extensively in British Columbia logging operations as the system is one-half the cost of road building by crawler tractor.

The Scotia property is located at Latitude 54°05'N and Longitude 129°40'W on The Port Essington, British Columbia Topography Sheet 103-I-4, Mapping Branch of the Department of Energy Mines and Resources, Ottawa - 1980.

	Location	Air Distance	Jetranger Time
1)	Smithers - Property	167 km	1.0 - 1.2 hours
2)	Smithers - Terrace	84 km	0.5 - 0.6 hours
3)	Terrace - Property	84 km	0.5 - 0.6 hours
4)	Prince Rupert - Property	42 km	0.25 - 0.35 hours
5)	Telegraph Point - Property	12 km	0.15 - 0.20 hours

Note - The Jetranger flying time between the various points may vary due to low laying and broken cloud cover in the valleys.

Radio Communications

The Scotia campsite is located at an elevation of 1,158 metres on the ridge above the massive sphalerite outcrop. Radio telephone communications are possible but sporadic, using a single-side band SBX-11 radio equipped with a frequency for use in the British Columbia Telephone System. A VHF transmitter/receiver was tested at the campsite and discovered to work perfectly from receivers in the Prince Rupert and Terrace areas.

SCOTIA CLAIM GROUP

The Scotia claim group consists of the Scotia #1 that contains 20 units and Scotia #2 with 6 units. The Scotia claims were staked in June of 1976 and overstake the Albere 1 - 4 claims that were originally staked in 1960 and remain in good standing and valid.

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The Scotia claims are within the Skeena Mining Division of British Columbia. The Skeena Mining Recorders office is located in Smithers. The property is located on the mining claim sheet 103-I-4E and the Scotia claims are at approximately Latitude 54°05'N and Longitude 129°40'W.

Claim	Units	Record No.	Recorded	Anniversary Date
Scotia #1	20	1418	July 17, 1979	July 17, 1992
Scotia #2	6	1419	July 17, 1979	July 17, 1992
Albere #1	--	19318	Aug. 3, 1960	Aug. 3, 1992
Albere #2	--	19319	Aug. 3, 1960	Aug. 3, 1992
Albere #3	--	19320	Aug. 3, 1960	Aug. 3, 1992
Albere #4	--	19321	Aug. 3, 1960	Aug. 3, 1992

The Scotia and Albere claims are recorded in the name of Kidd Creek Mines Ltd., 701 - 1281 West Georgia Street, Vancouver, British Columbia.

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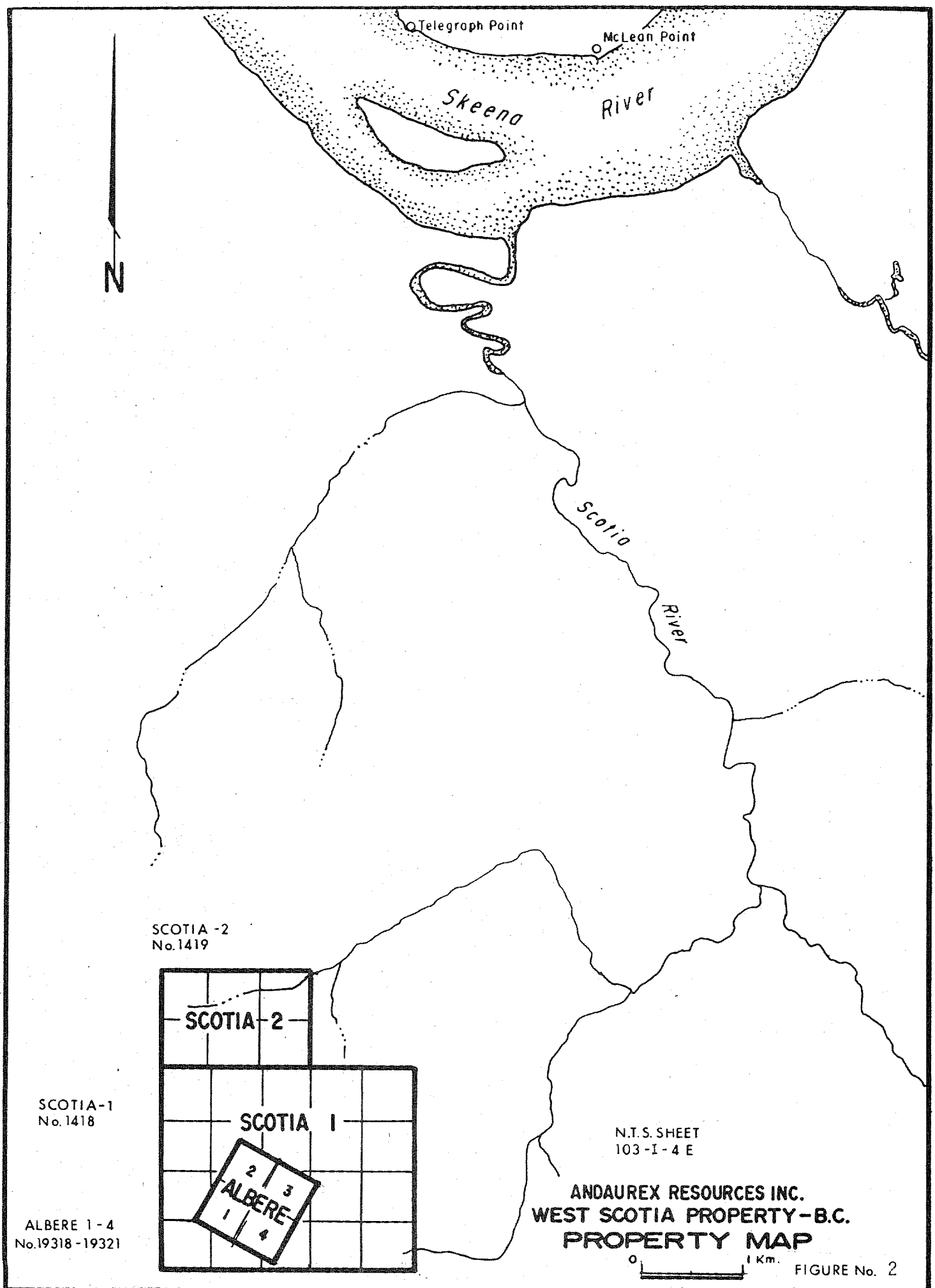
Telegraph Point
McLean Point
Skeena River
N
Scotia River
SCOTIA -2
No. 1419
SCOTIA-2
SCOTIA-1
No. 1418
SCOTIA 1
2
3
ALBERE
1
4
ALBERE 1 - 4
No. 19318 - 19321
N.T.S. SHEET
103 - I - 4 E
ANDAUREX RESOURCES INC.
WEST SCOTIA PROPERTY - B.C.
PROPERTY MAP
0
1 Km.

FIGURE No. 2

PREVIOUS EXPLORATION - SCOTIA PROPERTY:

General

The Scotia massive sphalerite mineralization has been known for the past 25 years and sporatic exploration was conducted on the property in 1960 - 1977 - 1980 - 1981 and 1984. There has been several company geologists who conducted geological programs in specific exploration years. However, there has been no single geologist who has contributed continuity to the Scotia property exploration. The Scotia sphalerite mineral zones are contained within a structural complicated fold system on a steep south mountain face. Fortunately, the ore zones delineated to 1984 are constant in strike direction and predictable to dip and rake. The writer has attempted to consolidate the most significant parts of previous exploration data and relate it to the results of the 1984 drill program.

1958 - Sphalerite mineralization discovered by Texasgulf Inc. field crews.

1960 Exploration

Drill program 568.9 metres drilled in 10 holes that were documented in brief logs and assays of the drill core. The first three of the 1960 holes were drilled with EX rods by a packsack drill and the remaining seven holes were drilled with a larger drill using AX rods. The field geologist was W. R. Bacon and the supervising geologist was R. D. Mollison. Topography map Scale 1 in= 40 feet used for ground control and location of drill holes.

Hole No.	Dip	Length	Mineralization
S-1-60	-54°	78.2 ft. - EX - 23.8 m	Zn intersects
S-2-60	-47°	78.0 ft. - EX - 23.8 m	Zn intersects
S-3-60	-56°	30.0 ft. - EX - 9.1 m	Nil
S-4-60	-60°	263.0 ft. - AX - 80.2 m	Nil
S-5-60	-60°	347.0 ft. - AX -105.8 m	Zn intersects
S-6-60	-60°	252.0 ft. - AX - 76.8 m	Zn intersects
S-7-60	-85°	158.5 ft. - AX - 48.3 m	Zn intersects
S-8-60	-60°	158.0 ft. - AX - 48.2 m	Zn intersects
S-9-60	-45°	227.0 ft. - AX - 69.2 m	Zn intersects
S-10-60	-75°	273.0 ft. - AX - 83.2 m	Zn intersects

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The drill core remained on the property and was salvaged in 1980. The original core boxes were rotten, and placed in new boxes by the 1980 exploration geologists.

The Scotia property mineralization was interpreted to be related to pegmatite dikes during the 1960 exploration. The 1960 drill program is reported to have delineated 30,000 - 50,000 tons of sphalerite ore that graded 20% zinc and 2% lead.

- Peter Read conducted regional geological mapping on the property. The mapping indicated northwest regional foliation with a moderate steep dip southwest.

1977 Exploration

The 1977 exploration and Scotia property re-evaluation was conducted by Texasgulf Inc. geologist P. R. DeLancey and assistant geologist Glen Tetu.

- Review of the Ecstall Pendant and Scotia property as part of the B.C. Massive Sulphide compilation.

- Scotia property was interpreted to have characteristics of a deformed "volcanogenic" massive sulphide deposit rather than a pegmatite dike type of deposit.

- Six days at the property; geological mappping, geochemical sample collecting, brief examination of 1960 drill core and location of 1960 drill holes.

- 1977 Report On The West Scotia Property by P. R. DeLancey:
  a) Geology Map Scotia Property 1:500 metric.
  b) Geochemical Survey and plans showing zinc, lead, copper and moly.
  c) Topography base map - Scale 1 in = 40 ft. by transit and compass in 1960 was used for ground control.

1980 Exploration

During the summer of 1980 a Texasgulf Inc. geological crew re-boxed the 1960 core and drilled a total of 955 metres of BQ core in seven holes. The drilling was conducted Aug. 5 - 13 with 528 metres or 1,732 feet of core and Sept. 5 - 22 with 432 metres or 1,417 feet of core recovered. Project geologist P. R. DeLancey and Dr. Richard Moore - Toronto and assistant

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Mark McCormic conducted the 1980 drill program.

- A topography plan at Scale 1:500 metric was compiled for the West Ridge drill area and gossan zone. The Scotia claim group was covered in a 1:5,000 orthophoto by McElhanney Surveying and Engineering - Vancouver, B.C.

- The 1980 core was logged and mineralized sections split and assayed for copper-lead-zinc-silver/gold.

- The 1960 core was re-boxed and labelled. The core was relogged and some core split for assaying in holes S-5-60 and S-6-60 where zinc values of 3.2% - 5% were obtained.

- All of the 1960 and 1980 core was stored on the property at the ridge campsite.

1980 Drill Holes:

Hole No.	Dip	Length	Mineralization
Drillsite #1			
S-11-80	-70°	322 ft. - 98.15 m	high Zn values
S-12-80	-90°	450 ft. - 137.16 m	high Zn values
Drillsite #2			
S-13-80	-55°	456 ft. - 139.00 m	intersects Zn values
S-14-80	-90°	503 ft. - 153.31 m	intersects Zn values
Drillsite #3			
S-15-80	-90°	427 ft. - 130.10 m	low Zn values
S-16-80	-50°	286 ft. - 87.20 m	high Zn values
Drillsite #4			
S-17-80	-60°	707 ft. - 215.50 m	no Zn values

- Estimate of ore reserves are reported to be 187,000 tonnes grading 11.8% Zinc, 1.3% lead and 0.6 oz./T silver.

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1981 Exploration

In July to September 1981 geology mapping, drill program and a Borehole Pulse EM Survey was conducted on the property. The geologists were R. E. Meyers and E. P. Moreton and the geophysical survey was conducted by W. A. Gasteiger.

- Reconnaissance Geology mapping Scale 1:5,000 metres. Detail geology mapping Scale 1:1,000 metres.

- Drill Program of 1,104.2 metres or 3,623 feet of BQ drilling in four holes.

1981 Drilling:

Hole No.	Dip	Length	Mineralization
S-18-81	-70° (-56°)	827 ft. - 252.1 m	20% pyrite mnr zinc
S-19-81	-65° (-53°)	880 ft. - 268.2 m	mnr. pyrite
S-20-81	-44° (-37°)	1,255 ft. - 382.4 m	14.4 ft. mnr zinc
S-21-81	-65° (-58½°)	661 ft. - 201.5 m	2-5% pyrite

- A Borehole Pulse EM Survey was carried out on drill holes S-11-80, S-14-80, S-16-80, S-17-80 and S-20-81. The results were of no significant value to permit interpretation for the continuation of iron sulphide mineralization.

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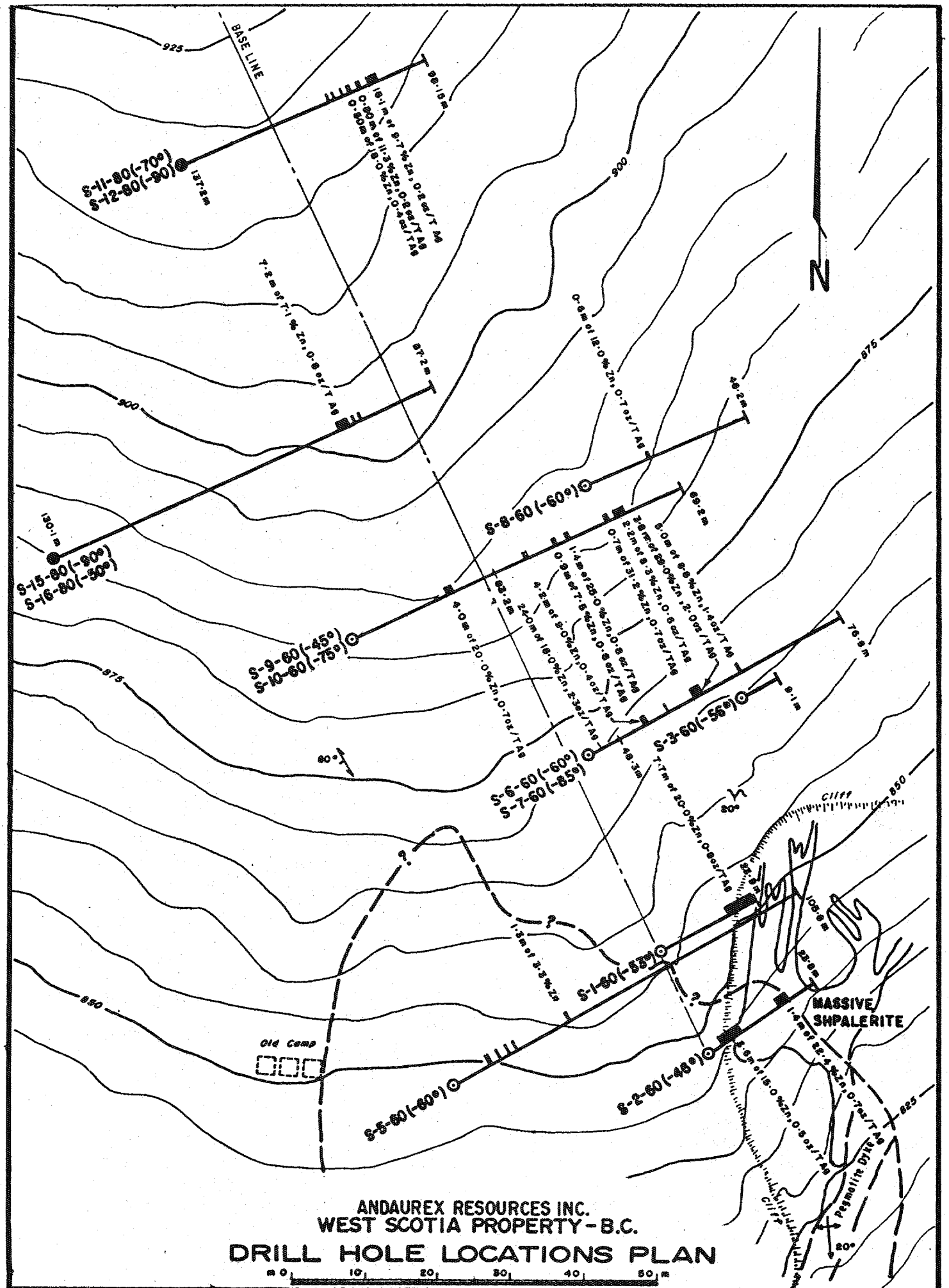
BASE LINE
925
900
875
850
N
S-11-80(-70°)
S-12-80(-90°)
137.8m
98.15m
19.1m of 9.7%Zn, 0.2oz/T Ag
0.60m of 11.3%Zn, 0.8oz/T Ag
0.60m of 18.0%Zn, 0.4oz/T Ag
7.2m of 7.1%Zn, 0.8oz/T Ag
87.2m
0.6m of 12.0%Zn, 0.7oz/T Ag
48.2m
S-8-60(-60°)
69.2m
130.1m
S-15-80(-90°)
S-16-80(-90°)
5.0m of 8.8%Zn, 1.4oz/T Ag
1.8m of 58.0%Zn, 2.0oz/T Ag
2.2m of 8.3%Zn, 0.6oz/T Ag
0.7m of 21.2%Zn, 0.7oz/T Ag
1.4m of 29.0%Zn, 0.8oz/T Ag
0.9m of 7.5%Zn, 0.8oz/T Ag
4.2m of 9.0%Zn, 0.4oz/T Ag
24.0m of 18.0%Zn, 2.3oz/T Ag
S-9-60(-45°)
S-10-60(-75°)
83.2m
4.0m of 20.0%Zn, 0.7oz/T Ag
76.8m
9.1m
S-3-60(-55°)
S-6-60(-60°)
S-7-60(-85°)
48.3m
7.7m of 20.0%Zn, 0.8oz/T Ag
CLIFF
108.8m
22.9m
S-1-60(-55°)
1.2m of 3.3%Zn
MASSIVE SPHALERITE
1.4m of 12.4%Zn, 0.7oz/T Ag
Old Camp
S-5-60(-60°)
S-2-60(-48°)
1.5m of 15.0%Zn, 0.8oz/T Ag
Pegmatite DYKE
CLIFF
ANDAUREX RESOURCES INC.
WEST SCOTIA PROPERTY - B.C.
DRILL HOLE LOCATIONS PLAN
0 10 20 30 40 50 m

1984 DRILL PROGRAM:

General

The 1984 drill program was conducted on the Scotia claim group between August 5th and September 24th. A Bell Jetranger was contracted as required from Glacier Heliocopters, that are based in Smithers. The camp equipment was mobilized to the property on August 5 and erected by August 7. The campsite was located on a ridge at an elevation of 1,158 metres and 305 metres vertically above the lowest drillsite. All of the camp gear, drill equipment, and fuels were transported by truck from Smithers to a road cut on Highway #16, three kms east of Telegraph Point on the Skeena River. The Jetranger heliocopter transported the equipment to the campsite or drill area by use of a 6 metre "longline" attached to a sling net or a cable assembly on awkward size loads. The heliocopter was used between Smithers and the property to service the campsite and to transport a drillsite blasting crew into and out of the drill area.

The drill contractor, Core Enterprises Ltd. of Clinton, B.C., arrived at the staging area on the Skeena River August 14. A Boyles BBS-1 diamond drill, BQ size rods, crew and all related equipment were mobilized 16 kilometres to the first drillsite on the property. The drill moves, between six drill-sites, were completed by Kirk Zutter, the Jetranger pilot, who used a longline to sling the drill and gear. After the drill was mobilized to the first drillsite, the drill moves required one-half hour of Jetranger flying time to the next drillsite in adverse, cloudy, rainy weather conditions. The two-man drill crew and heliocopter pilot worked at peak efficiency but with extreme caution. The BBS-1 diamond drill commenced drilling BQ size core on August 15th at hole AR-84-1 and completed drilling on September 19th at hole AR-84-11. The driller and helper worked a day-time 12-hour shift that included about one hour walking time on the steep trail between the camp and drillsite. The drill equipment and crew were mobilized from the property to the Skeena River staging area on Highway #16 on September 21st. The camp equipment, cook and geologists were demobilized from the property to Smithers on September 24th.

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A total of 772 metres of BQ size diamond drill holes was completed at six drillsites in eleven holes during 36 days.

Scotia Property Personnel

1) Heather L. Blomgren - Cook (Contract)
   July 25 - August 5, project preparation Smithers
   August 5 - September 24, Scotia property
   September 24 - September 31, project demobilization

2) D. C. Pleacash - Geologist (Contract)
   July 15 - August 5, project preparation Smithers
   August 5 - September 24, Scotia property
   September 24 - October 31, log drill core and sections

3) R. G. Hilker - Geologist (Contract)
   July 1 - August 5, project preparation
   August 5 - September 24, Scotia property
   September 24 - October 31, data processing and assays

4) Core Enterprises Ltd. - Clinton, B.C.
   A. Allen Harvie - Driller (Contract)
      August 14 - September 21, diamond drilling
   B. John Harvie - Helper (Contract)
      August 14 - September 21, drill helper

5) Glacier Heliocopter - Smithers, B.C.
   Dirk Zutter - Pilot and Operations Manager
   July 11, Aug. 5-7-11-14-16-20-22-25-31
   September 6-8-10-14-16-21-24

6) Dieter Development Ltd. - Smithers, B.C.
   Two-man Blasting Crew for drillsites
   Aug. 8-9-10 (six mandays)
   September 8 (two mandays)
   September 16 (one manday)

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7) Casual Labour - Campsite and Transportation
   August 5-6-7 (seven mandays)
   August - September (expediting, 6 mandays)
   August 14 (two mandays)
   September 24-25-26 (10 mandays)

Assay Laboratory

The mineralized sections of drill core were visually inspected and split at the drillsite. The sphalerite, minor galena and bornite mineralized samples were bagged and assay number assigned to each section. The samples were transported to Smithers by heliocopter, crated in wooden boxes and sent by airfreight to Calgary. Loring Laboratories Ltd. at 629 Beaverdam Road N.E., Calgary, Alberta conducted gold-silver, lead and zinc assays on the split drill core mineralized samples. Nine samples were determined for cadmium on samples previously assayed for Au/Ag-Pb and Zn.

Loring Laboratories Ltd. conducted the following types of assay procedures on the Scotia drill core sample.

1) Gold/Silver - fire assay.

2) Zinc/Lead - by multi acid dissolution and Atomic Absorption (AA) for low values of zinc and lead.

3) High Zinc Values - high zinc values were determined by "titration" with potassium ferrocyanide (Cominco Method).

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TABLE #1

1984 Drill Hole Locations

D.D.H. No.	Co-Ordinates Location	Elevation Collar	Dip	Length	D.D.H. Azimuth	Section Azimuth
AR-84-1	117+47N 49+88W	847.3 m	-45°	49.99 m	070°	340°
AR-84-2	117+47N 49+88W	847.3 m	-45°	81.08 m	050°	320°
AR-84-3	118+93N 49+88W	870.5 m	-61½°	61.87 m	105°	015°
AR-84-4	118+93N 49+88W	870.5 m	-60°	60.05 m	075°	345°
AR-84-5	119+78N 50+72W	886.4 m	-45°	84.43 m	090°	360°
AR-84-6	119+78N 50+72W	886.4 m	-65°	92.35 m	090°	360°
AR-84-7	122+04N 50+70W	918.1 m	-60°	93.57 m	090°	360°
AR-84-8	120+96N 50+09W	905.9 m	-60°	78.33 m	090°	360°
AR-84-9	120+96N 50+09W	905.9 m	-45°	78.33 m	070°	340°
AR-84-10	118+20N 50+00W	860.2 m	-45°	45.72 m	090°	360°
AR-84-11	118+20N 50+00W	860.2 m	-45°	45.72 m	070°	340°

****

1960/1980 Drill Hole Locations

D.D.H. No.	Co-Ordinates Location	Elevation Collar	Dip	Length	D.D.H. Azimuth	Section Azimuth
S-6-60	118+93N 49+88W	870.5 m	-60°	76.8 m	060°	330°
S-7-60	118+93N 49+88W	870.5 m	-85°	48.3 m	060°	330°
S-9-60	119+77N 50+72W	886.4 m	-45°	69.2 m	065°	335°
S-10-60	119+77N 50+72W	886.4 m	-75°	83.2 m	065°	335°

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D.D.H. No.	Co-Ordinates Location	Elevation Collar	Dip	Length	D.D.H. Azimuth	Section Azimuth
S-11-80	122+04N 50+70W	917 m	-70°	98.2 m	068°	322°
S-12-80	122+04N 50+70W	917 m	-90°	137.2 m	068°	322°
S-15-80	120+57N 51+91W	885 m	-90°	130.1 m	035°	333°
S-16-80	120+57N 51+91W	885 m	-50°	87.2 m	063°	333°

Drill Core Processing

The drill core from each of the 1984 holes was placed in a wooden 7 metre capacity, core box. The drilling length and core recovered was referred to in metres and an inventory of the core boxes for each hole was recorded. The core from all mineralized intersects was split at the drillsite, one-half of the split core replaced and the other half was bagged for assaying. After each box of core was inspected and core split where required, a plywood lid was nailed on each core box. Each core box lid was marked with the box number and core interval in metres. The core boxes were heliocopter transported from the drillsite to the Skeena River staging site and truck transported to Smithers. The drill core was re-inspected for mineralization and logged by D. C. Plecash - geologist, during October, 1984. After the core logging was completed the core boxes, from drill holes AR-84-1 to AR-84-11, were transported to Revelstoke, B.C. and placed in the Andaurex Resources Inc. warehouse.

Claim Location of 1984 Drill Holes

The 1984 drill holes AR-84-1 through AR-84-11 were all collared and located on claim ALBERE #2 - Record Number 19319, NTS Sheet 103-I-4E.

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GENERAL GEOLOGY

General

The Scotia massive sulphides property is located on the east side of the Ecstall Pluton. Two units of plutonic rocks have been identified by W. W. Hutchison in G.S.C. - Memoir 394, that are within the Ecstall Pluton and have been designated Unit D - diorite and minor quartz diorite and Unit E - quartz diorite and minor diorite, granodiorite. The Pluton intrusions are Mesozoic in age and are possibly in Period Cretaceous to Early Triassic. The Ecstall Pluton Units - D and E, contacts on the east boundary with Unit-1c of the Central Gneiss Complex. The Central Gneiss Complex is tentatively dated as Late Mesozoic through Paleozoic and possibly Precambrian in Age. W. W. Hutchison dates the gneiss complex as possibly Late Triassic to Precambrian. The Central Gneiss Complex probably dates to the Period of Mississipian through Ordovician in age. The Central Gneiss Complex consists of Units 1a, 1b-1c-1d, and 1e. The gneiss is a complex metamorphic assemblage of flesic and mafic rock types, within a fold deformed structure. The Scotia massive sulphide occurrence is situated in Unit-1c of the Central Gneiss Complex and on the east flank of Units D and E of the Ecstall Pluton.

Central Gneiss Complex

The Central Gneiss Complex underlies a northwest trending belt of plutonic - rocks along the Coastal Mountain Range, that includes the Scotia property area. The Younger plutonic - rocks have intruded the older gneissic unit. The gneiss complex has been subjected to heat and pressure associated with the intrusive plutons and deformation by regional structural changes. The Central Gneiss Complex Unit - 1 is difficult to map or establish continuous lithological subunits. The subunits in Unit - 1 are difficult to trace in outcrops because of the major structural folding deformation and the intrusive emplacement of plutonic rocks.

The Central Gneiss Complex was subdivided into four major subunits by W. W. Hutchison:

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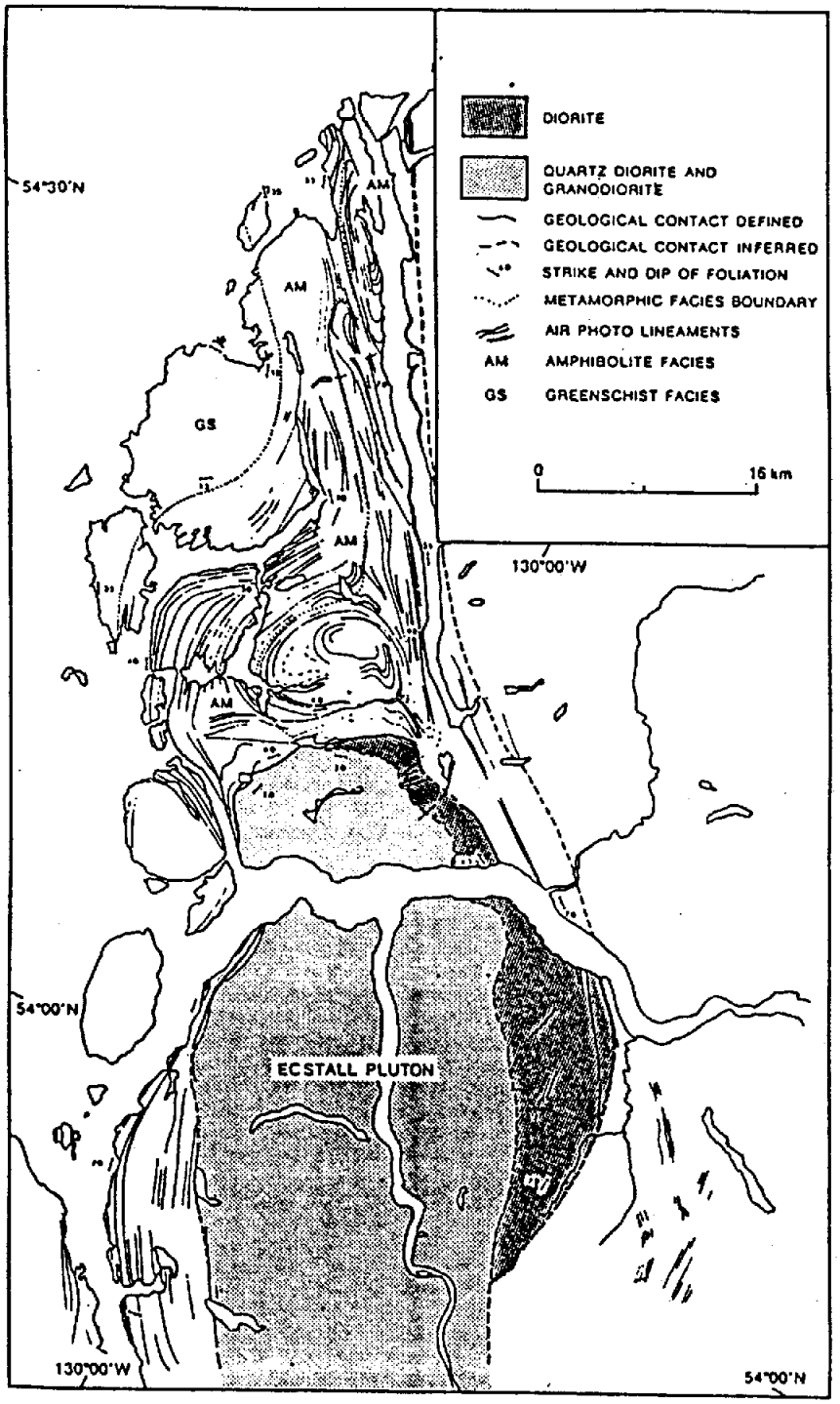

Figure 67. Map of the 'head' of Ecstall pluton. This pluton is inferred to have punched into the metasediments, deforming them and their isograds and forming the concentric domal structure (centred 4 miles (6.4 km) north of pluton) which was partly overridden by continued movement within the pluton. From Hutchison (1970).

Pluton sketch by W. W. Hutchison, G.S.C. Memoir 394, Page 71.

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Unit 1a - leucogneiss and migmatite

Units 1b -1c-1d - 1b is grey biotite-hornblende gneiss, amphibolite, minor sillimonite and/or garnet gneiss.

1c - Work Channel amphibolite .

1d - biotite hornblende gneiss, amphibolite and minor migmatite, rare biotite-garnet-kyanite schist and gneiss.

Unit 1e - migmatitic plutonic rocks

Scotia River Area:

Unit 2 - 2b occurs in the Scotia River area and east of the Scotia massive sulphide occurrence. 2b - rusty weathering, grey feldspathic schist with muscovite-biotite-garnet; dark hornblende-biotite schists.

Table I. Comparison of leucogneiss (unit 1a) of the northern Central Gneiss complex with biotite-hornblende gneiss (unit 1b) of the southern and western Central Gneiss complex.

Attribute of principal lithologies	Leucogneiss (1a)	Biotite-hornblende gneiss (1b)
Colour	Dominantly pale buff	Dominantly grey; locally rusty weathering zones
Mineralogy	Feldspar ± quartz ± biotite. Hornblende uncommon	Feldspar hornblende ± quartz ± biotite ± garnet
Total mafic content	0 to 15%	Commonly 15-60%
Potash feldspar content	Commonly 5-30%	Commonly 0-5%
Specific gravity	Ranges 2.59-2.71	Ranges 2.66-2.85
Composition of associated plutonic rock (in migmatite)	Granodiorite, quartz monzonite	Diorite, quartz diorite

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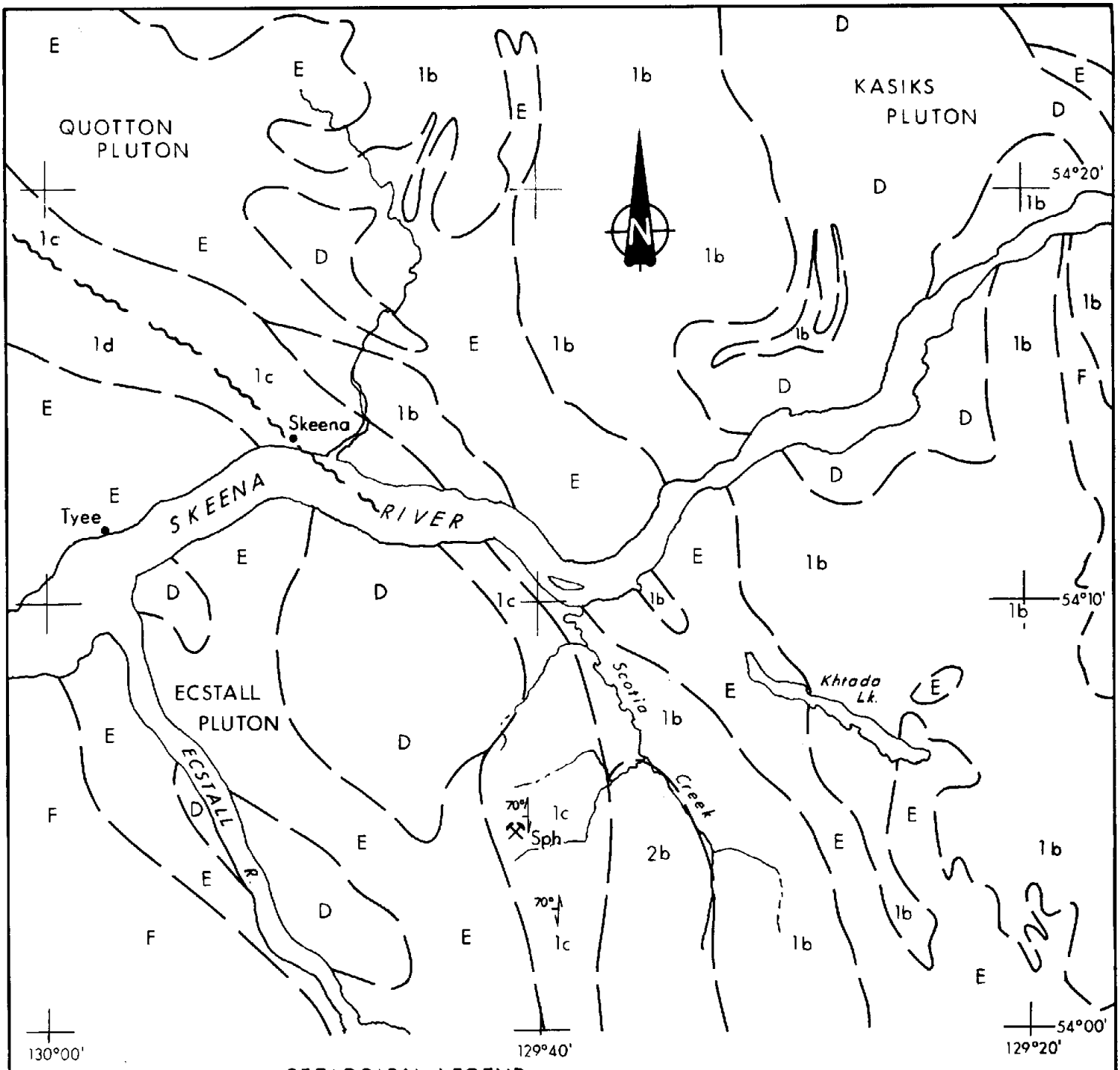

GEOLOGICAL LEGEND

MESOZOIC/ PALAEOZOIC

CENTRAL GNEISS COMPLEX

- 2b — Schist
- 1a — Migmatite
- 1b, 1c, 1d
  - 1b: Bio-hornblende gneiss/amphibolite
  - 1c: Work ch amphibolite
  - 1d: Bio-hornblende gneiss/amphibolite/ migmatite

PLUTONIC ROCKS

- F — Granodiorite
- E — Qtz diorite
- D — Diorite

FIGURE No.4

GEOLOGY BY: G.S.C. Memoir 394, Map 1472 A. W.W. Hutchinson -1971

GENERAL GEOLOGY SKETCH
SKEENA AREA

DATE: JANUARY 1985 | SCALE: 1:250,000

BIBLIOGRAPHY REFERENCE TO GEOLOGY AND DATA:

1) G.S.C. Memoir 394 - Geology of the Prince Rupert - Skeena Map Area, British Columbia by W. W. Hutchison - 1982.

2) Texasgulf Inc. - Report on The West Scotia Property in 1977 - by P. R. DeLancey, Vancouver, B.C. - February 1977, Completed October 1978. (Report included the drill hole data conducted by Texasgulf Inc. 1960 drill program).

3) Texasgulf Inc. - Report on West Scotia Drilling Program 1980 - NTS 103-I-4E by P. R. DeLancey, Vancouver, B.C. - December 1980.

4) Kidd Creek Mines Ltd. - Final Report 1981 Geology, Geophysics and Diamond Drilling Program - West Scotia Property 103-I-4E, by R. E. Meyers and E. P. Moreton - Vancouver, B.C. - March 1982.

5) Report on West Scotia Property, Skeena River, British Columbia - NTS 104-I-4, Lat. 54°05'N and Long. 129°40'W, for Andaurex Resources Inc. by J. W. MacLeod, P. Eng., Vancouver, British Columbia, April 17, 1984.

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SCOTIA PROPERTY GEOLOGY:

Central Gneiss Complex

The Scotia massive sulphide property is located in the Central Gneiss Complex subunit 1c - Work Channel Amphibolite, that is possibly middle Paleozoic in age. The subunits 1b-1c-1d were identified by W. W. Hutchison in Memoir 394 and noted that there are no sharp boundaries between the subunits of Unit - 1. Previously, several geologists have observed the gneissic rock types that occur on the property. From the descriptions of rock types reported by geologists during the 1960 - 1977 - 1980 and 1981 field programs and the writers observations, the subunits 1b-1c-1d best describes the Scotia property rock types. There are no sharp boundaries between the several rock types that occur on the property. The rock types do not repeat in any sequence and appear to be gneissic, banded, schistose, massive and in places foliated. There is no geological correlation to suggest that the massive sulphide mineralization is controlled by rock type. The most general assumption is that the mineralization is most often contained in a felsic gneiss. The massive sphalerite mineralized zones are controlled by structural features.

The three mineralized zones that have been delineated on the Scotia property trend in an undulating structure N20^{o}W for 228 metres, dips -40^{o} southwest and rakes or plunges -9^{o} south. The massive sulphide mineralization has the characteristics of volcanogenic type of deposit and is severally deformed.

Lithology Subunits

Work Channel Amphibolite - mainly coarse grained amphibolite that has slight layered characteristics, grades into zones of foliated diorite; occasionally grades into biotite-hornblende schist, or layered quartz-feldspar-biotite-garnet schist, or layered quartz-feldspar-biotite-garnet-schist and hornblende schist.

South of the Skeena River, in subunits 1b-1c-1d, plagioclase in massive diorite occurs as porphyroblasts or as augen in foliated diorite. The units contain three lithologies in about equal quantities and are in zones from 3 - 30 metres wide. The lithologies are classified by W. W. Hutchison.

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1) amphibolite that is massive or slightly layered.
2) biotite-hornblende gneiss that is layered.
3) diorite gneiss with plagioclase augen and amphibolite.

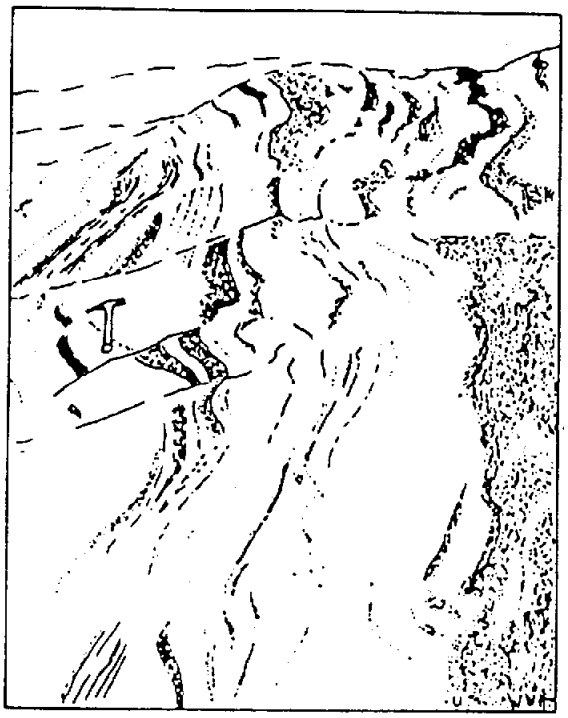

Figure 17. Diorite gneiss in which most layers are indistinct and discontinuous as a result of recrystallization and movement (flow?). This is an example of fluidal gneiss. Sketch from polaroid. Location west shore of Kiutzeymateen Inlet on point 2 miles (3 km) southeast of its entrance. Station 30516-1965.

Scotia Property Lithology

DIKES:

a) Pegmatite
b) Diorite

CENTRAL GNEISS COMPLEX - Work Channel Amphibolite

FELSIC GNEISS/TUFF

a) Quartz-Feldspar-Sericite Gneiss
b) Quartz-Sericite Schist
c) Pyritic Quartz-Sericite Gneiss
d) Amphibolite

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FELSIC GNEISS

a) Massive Sulphides-Sphalerite 85-95%

b) Semi-Massive Sulphides-Sphalerite 30-50%

FELSIC/MAFIC GNEISS:

a) Mixed Felsic and Mafic Gneiss

MAFIC GNEISS:

a) Hornblende-Biotite Gneiss

b) Biotite-Garnet-Hornblende Gneiss

c) Sillimanite Gneiss

d) Grey Hornblende-Biotite-Quartz-Gneiss

PLUTONIC INTRUSIVES:

MIGMATITE PLUTONIC ROCKS:

a) Diorite

b) Quartz Diorite

c) Gneissic Diorite or Quartz Diorite

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TABLE OF FORMATIONS

MESOZOIC or PALAEOZOIC

CORDILLERAN COAST CRYSTALLINE COMPLEX -

Ecstall Belt and Central Gneiss Complex.

PRE-PERMIAN (?) TO CAMBRIAN

[7] - Pegmatite Dikes: potassium feldspar, granitic, quartz, mnr. muscovite; Diorite Dikes: pre-pegmatite, plagioclase, amphibole and quartz.

[6] - Pyritic Felsic Tuff: or pyrite quartz-sericite gneiss; 5 - 20% pyrite, mnr. sphalerite-galena or bornite, banded; quartz-sericite schist and in parts biotite; rusty weathering gossan rock type.

[5] - Massive/Semi-Massive Sulphides; up to 85% sphalerite with mnr. quartz-feldspar gangue, in parts garnet within sphalerite; semi-massive sulphides from 30 - 50% sphalerite in felsic gneiss gangue.

[4] - Felsic Gneiss/Tuff: quartz-feldspar-sericite gneiss; quartz, feldspar, biotite or sericite, in parts pyrite, pyrrhotite or bornite: quartz-sericite schist; schistosity, mainly sericite, minor quartz and plagioclase feldspar; amphibolite.

[3] - Felsic/Mafic Gneiss: mixed felsic and mafic gneiss; alternating bands of quartz-feldspar-sericite gneiss or quartz-sericite schist with amphibolite or migmatite rocks of foliated and/or massive diorite or quartz diorite.

[2] - Mafic Gneiss: discontinuous zones of massive or banded layers of amphibolite mafic gneiss; hornblende, plagioclase feldspar, biotite, quartz, chlorite: hornblende-biotite gneiss; biotite-garnet-hornblende gneiss; in parts sillimanite gneiss; grey hornblende-biotite-quartz gneiss.

[1] - Migmatite Plutonic Rocks: massive or foliated diorite or quartz diorite, in parts gneissic.

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ECONOMIC GEOLOGY:

Mineralized Structure

The 1984 drill holes located Upper, Middle and Lower Zones of sphalerite mineralization that contained silver values and minor lead sulphides. The three zones plotted on plan indicate a trend or strike direction of N20^{o}W or azimuth of 340^{o}. The strike length of the ore zones has been established from sphalerite/silver/lead mineralization intersected in drill holes from the 1960-1980-1984 drilling programs. A 228 metre strike length is indicated between the 1980 drill holes S-13/14-80 on the north end to the 1984 drill-site at AR-84-1/2 on the south end. The ore zones are consistent along the strike length within an undulating lateral structure. The assayed sulphide intersections and geology was plotted on the 1984 drill hole sections. The sphalerite/silver and minor lead intersects, plotted on the geology sections, were interpreted to occur within a folded or drag fold structure. The folded structure dips -40^{o} southwest then pinches and swells downdip. The true widths of the ore zones probably vary, as the structure plunges downdip. The sphalerite specific gravity is 3.91 - 4.1 and the biotite-hornblende-gneiss host rock specific gravity is 2.66 - 2.85. During deposition the heavy sphalerite bearing solutions would tend to accumulate in the lower and broad part of a structure. In a drag fold structure sphalerite mineralization would be expected to occur at a greater thickness in the broad roll base of the fold. Sphalerite would tend to be squeezed into the narrow neck of a fold below the next upper roll base.

The ore zones are interpreted to be contained within an overturned fold with related drag folding caused by shearing. The drag folds possibly plunge south within the overturned fold structure. There are indications that the fold structure is on the west flank of an anticline. The ore mineralization is enclosed within a complicated structural feature but consistent in continuity along the strike and dip of the zones.

Note Figure #5 that shows an overturned fold in relation to drag folds.

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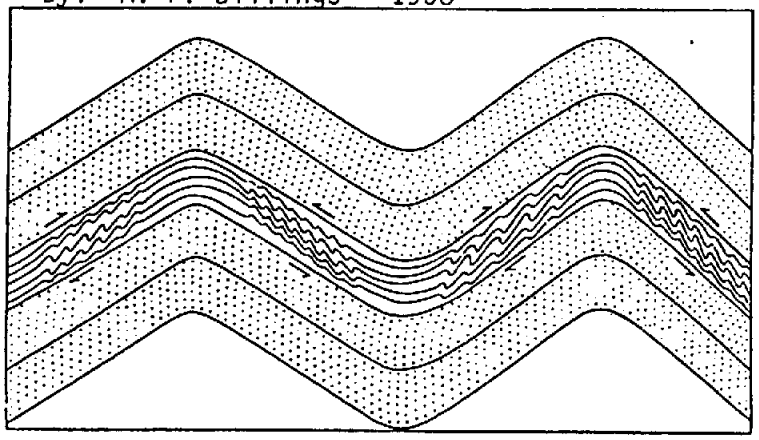
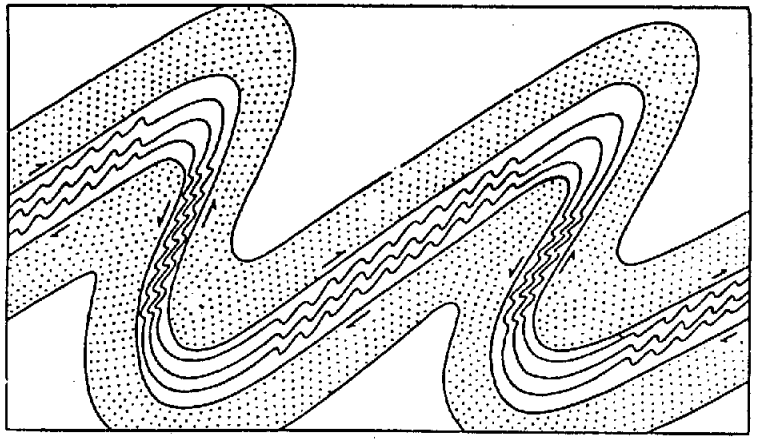
By: M. P. Billings - 1958

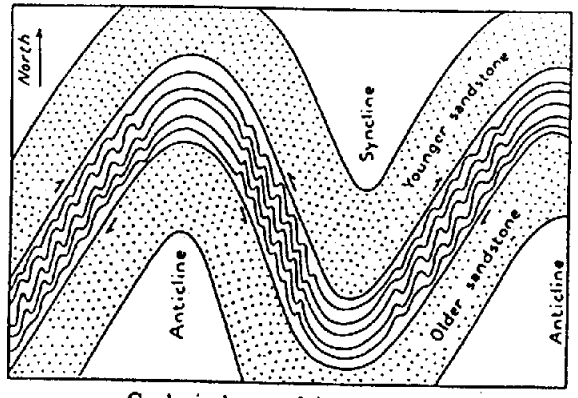


Structure section of symmetrical folds showing relation of drag folds and direction of shearing.

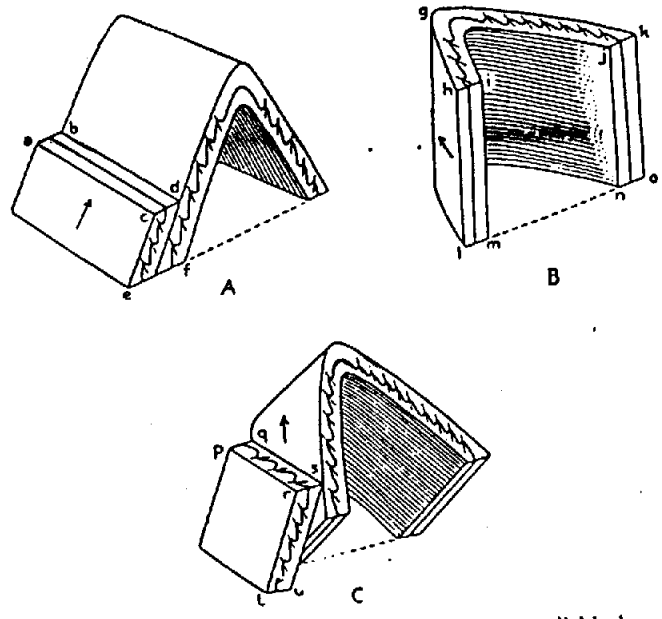


Structure section of overturned folds showing relation of drag folds and direction of shearing.

Figure #5 - Possible overturned fold structures that encloses sphalerite mineralization - West Ridge area of the Scotia property.



Geological map of drag folds. The large folds, as well as the drag folds, plunge north. Horizontal component of shear is shown by arrows.



Drag folds in three dimensions. The small blocks on the left side of diagrams *A* and *C* show the appearance of the drag folds on a map and on a vertical section that strikes perpendicular to the axial plane of the fold.

TABLE #2

SCOTIA - 1984 DRILL HOLE ORE INTERSECTS

HOLE NO.	ELEVATION METRES UPPER ZONE	ELEVATION METRES MIDDLE ZONE	ELEVATION METRES LOWER ZONE
AR-84-1	843.4 - 841.9	834.5 - 833.6	Ø
AR-84-2	843.7 - 841.3	834.8 - 832.7	Ø
AR-84-10	849.2 - 846.1	843.4 - 838.2	837.6 - 837.0
AR-84-11	Ø	843.1 - 837.0	833.3 - 832.7
AR-84-3	855.3 - 849.8	848.3 - 839.1	829.7 - 830.3
AR-84-4	856.8 - 853.1	848.0 - 840.0	834.5 - 833.0
AR-84-5	855.3 - 854.0	845.8 - 842.5	841.3 - 840.6
AR-84-6	Ø	**(Down Dip)	Ø
		830.3 - 827.8	
AR-84-8	(Uplifted)	857.7 - 857.1	844.9 - 844.3
	876.6 - 874.8		
AR-84-9	Ø	*(Offset East)	*(Offset East)
		859.2 - 858.9	856.5 - 855.9
AR-84-7	863.8 - 859.5	854.4 - 851.6	849.2 - 844.9

Sulphide Mineralization

The sulphide mineralization consists of the following listed minerals with an approximate percentage of occurrence when present in the felsic to mafic gneiss host rocks.

Sphalerite - ZnS, dark brown color, resinous to adamantine lustre, conchoidal fracture, S.G. 3.9 - 4.1, often contains iron and manganese and sometimes cadmium. Occurs 85 - 95% massive, 30 - 50% semi-massive and 3 - 5% scattered crystals with galena, pyrite or pyrrhotite. In parts of the massive to semi-massive sphalerite rich zones, scattered garnets and garnet clusters occurred with the zinc sulphide. The garnet was creamy white in color and possibly "grossalarite", as distorted dodecahedron or trapezohedron crystals. Sphalerite is non-electrical conductive.

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Galena - PbS, metalic, color lead-gray, S.G. 7.4 - 7.6, often contains silver and occasionally cadmium. Occurs as coarse or fine granular crystals at 0.5 - 2% and rarely to 5% with pyrite, pyrrhotite and bornite. Galena is never present with massive sphalerite and only occasionally in minor quantities with semi-massive sphalerite.

Bornite - Cu_5FeS_4, peacock ore, color is copper-red and brownish on fresh non-oxidized face and irridescent color when tarnished. Noted to occur in scattered parts of the 1984 drill hole core, also the peacock blue color was observed in several sections of the 1980 drill core. Probably a partial source of copper in the Scotia ore zones.

Chalcopyrite - CuFeS, color brass-yellow, in parts of the core occurs as less than 1% with pyrite, pyrrhotite and galena, sometimes contains silver and/or gold.

Pyrite - FeS_2, pale brass-yellow color, disseminated in mafix gneiss or within quartz-sericite schist bands from 3 - 10% and up to 20% pyrite, occurs as zones on the hanging and footwall sides of the Upper, Middle and Lower sphalerite zones. Is associated with galena, pyrrhotite, bornite and chalcopyrite.

Pyrrhotite - Fe_5S_6 to $Fe_{16}S_{17}$, magnetic pyrite, color between bronze-yellow and copper red. Occurs 1% or less with pyrite, galena, chalcopyrite and bornite in fringe zones to the massive sphalerite.

Cadmium Values

Nine of the split core samples were assayed for cadmium, that indicate good cadmium values occur with sphalerite. The source of the cadmium is associated with semi-massive to massive sphalerite that contains 20% - 30% zinc. The 0.05% cadmium content indicates one pound per ton of ore and is a byproduct mineral that is recovered in the refinery smelting process of zinc. During the roasting and sintering of zinc concentrates cadmium is volatilized. The resultant cadmium fumes and dust are collected as flue dust, that contains about 10% of the mineral. The cadmium smelter residues are often stockpiled during times of low demand and price.

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Cadmium Assays:

Hole No.	Sample No.	Cd%	Zn%	Pb%	Ag Oz./T
AR-84-5	3445	0.05	19.27	3.21	1.24
	3448	0.04	15.98	5.64	2.10
	3449	0.05	20.27	5.82	1.62
AR-84-6	4654	0.01	3.22	2.50	2.78
	4659	0.01	1.41	1.65	2.22
AR-84-7	4670	0.05	24.44	3.30	1.06
	4671	0.06	29.01	10.84	2.60
	4673	0.04	17.83	2.60	1.32
AR-84-8	4678	0.02	9.69	8.82	3.62
AR-84-9	4679	0.02	5.63	2.09	1.18

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Rake Of Ore Zones

The elevations of the Upper, Middle and Lower ore intersects change between drill holes AR-84-7, on the north end, to AR-84-1 on the south end. The difference in elevations suggests a south rake, to the -40° southwest dip of the three ore zones.

1) Upper Zone - between drill holes AR-84-5 and AR-84-1

AR-84-5 elevation	854.7 metres
AR-84-1 elevation	842.7 metres
difference elevation	12.0 metres
horizontal distance between holes	59.1 metres

$$\tan \emptyset = \frac{12.0}{59.1} = 0.20103 = 11^{o}24'$$

Middle Zone - between drill holes AR-84-5 and AR-84-1

AR-84-5 elevation	844.3 metres
AR-84-1 elevation	833.9 metres
difference elevation	10.4 metres
horizontal distance between holes	56.1 metres

$$\tan \emptyset = \frac{10.4}{56.1} = 0.18478 = 10^{o}30'$$

2) Upper Zone - between drill holes AR-84-7 and AR-84-1

AR-84-7 elevation	862.0 metres
AR-84-1 elevation	842.8 metres
difference elevation	19.2 metres
horizontal distance between holes	127.4 metres

$$\tan \emptyset = \frac{19.2}{127.4} = 0.15071 = 8^{o}36'$$

Middle Zone - between drill holes AR-84-7 and AR-84-1

AR-84-7 elevation	853.1 metres
AR-84-1 elevation	833.9 metres
difference elevation	19.2 metres
horizontal distance between holes	126.2 metres

$$\tan \emptyset = \frac{19.2}{126.2} = 0.15217 = 8^{o}42'$$

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Lower Zone - between drill holes AR-84-7 and AR-84-1

AR-84-7 elevation ----------	847.0 metres
AR-84-1 elevation ----------	833.3 metres
difference elevation ----------	13.7 metres
horizontal distance between holes -----	103.6 metres

$$\tan \emptyset = \frac{13.7}{103.6} = 0.13235 = 7^{o}33'$$

Therefore - The average rake of the three ore zones are -9^{o} south within a folded structure that dips -40^{o} southwest.

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TABLE #3

Summary of Significant 1984, Silver-Zinc, Assays of BQ Drill Core.

D.D.H. No.	Azimuth	Dip	From	To	Interval (Metres)	Zn. %	Ag. (Oz./Ton)
AR-84-1	070°	-45°	5.64	7.83	1.89	11.25	0.69
			18.17	19.45	2.38	20.81	1.16
AR-84-2	050°	-45°	5.67	8.47	2.80	17.74	0.67
			17.62	20.85	3.23	22.75	0.40
			31.30	31.67	0.37	38.83	0.02
AR-84-3	105°	-61½°	20.67	23.71	3.08	12.38	1.07
			25.73	36.88	11.13	25.84	0.94
			47.18	47.73	0.55	17.24	1.44
AR-84-4	075°	-60°	15.82	20.06	4.24	16.21	0.80
			26.24	35.57	9.02	20.55	1.30
AR-84-5	090°	-45°	43.80	45.63	1.83	8.11	1.06
			57.24	62.00	4.75	21.41	1.16
			63.64	64.47	0.82	20.27	1.62
AR-84-6	090°	-65°	41.73	46.50	4.77	2.52	2.08
			61.48	64.13	2.65	21.38	0.64
AR-84-7	090°	-60°	62.61	63.09	0.38	13.88	0.62
			63.09	64.31	1.22	Dike	
			64.31	67.48	3.17	32.03	0.50
			75.29	76.41	1.12	24.44	1.06
			79.43	80.19	0.76	29.01	2.60
			82.78	84.19	1.41	17.63	1.32
AR-84-8	090°	-60°	33.71	36.12	2.41	18.84	0.49
			55.32	55.65	0.34	32.19	0.28
			69.59	70.13	0.55	9.69	3.62
AR-84-9	070°	-45°	65.75	66.08	0.34	5.63	1.18
			69.65	70.01	0.37	11.55	0.76
AR-84-10	090°	-45°	16.09	19.69	3.60	14.72	0.64
			24.08	30.94	6.86	22.86	0.37
			32.49	33.13	0.64	17.04	0.74
AR-84-11	070°	-45°	21.18	22.22	1.04	8.49	1.40
			24.17	31.61	8.44	18.27	0.47
			37.89	38.71	0.82	9.02	0.98

. . ./31

TABLE #4

1984 Gold-Silver-Lead-Zinc Weighted Assay Averages of BQ Drill Core.

D.D.H. No.	From	To	Interval Meters	Ag Oz./T	Au Oz./T	Pb %	Zn %
AR-84-1	5.64	7.83	1.89	0.69	0.03	1.85	11.25
	17.07	19.45	2.38	0.77	0.005	0.28	11.91
AR-84-2	5.67	8.47	2.80	0.78	0.014	2.19	17.74
	17.62	20.85	3.23	0.40	0.007	0.47	22.75
	31.30	31.67	0.37	0.20	0.004	0.19	38.83
AR-84-3	17.68	20.67	2.99	0.57	0.012	1.07	1.49
	20.67	23.71	3.08	1.07	0.011	2.38	12.38
	25.73	36.88	11.13	0.96	0.010	0.92	25.97
	47.18	49.41	1.77	0.65	0.009	0.83	6.47
AR-84-4	15.82	20.06	4.24	0.80	0.014	0.78	16.21
	26.24	35.57	9.02	1.21	0.017	2.70	20.55
	41.76	43.74	1.98	0.84	0.006	1.19	3.56
AR-84-5	43.80	45.63	1.83	1.06	0.006	1.07	8.11
	57.24	62.00	4.75	1.16	0.003	3.02	21.42
	63.64	64.47	0.82	1.62	0.006	5.82	20.27
	71.35	72.02	0.67	0.52	Tr.	0.79	3.60
	73.55	74.16	0.61	0.60	0.002	0.43	1.98
AR-84-6	41.73	45.05	3.32	1.87	0.025	1.76	2.75
	49.87	53.61	3.75	1.28	0.027	0.94	1.81
	61.48	64.13	2.65	0.64	0.001	1.38	21.38
AR-84-7	62.61	67.48	4.88	0.39	0.005	0.89	22.23
	73.58	76.41	2.83	0.79	0.003	2.42	12.63
	79.43	84.73	5.30	0.94	0.003	2.69	9.97
AR-84-8	33.71	36.12	2.41	0.49	0.025	0.80	18.84
	55.32	55.66	0.34	0.28	0.022	0.02	32.19
	69.59	70.13	0.55	3.68	0.018	8.82	9.69
AR-84-9	65.75	66.08	0.34	1.18	0.006	2.09	5.63
	69.65	70.01	0.37	0.76	0.004	2.02	11.55
AR-84-10	16.09	19.69	3.60	0.64	0.009	1.72	14.72
	20.76	23.16	2.41	0.52	0.002	1.12	1.59
	24.08	30.94	6.86	0.37	0.005	0.82	22.86
	32.49	33.13	0.64	0.74	0.008	1.07	17.04
	38.47	39.62	1.16	1.12	0.004	1.41	2.06
AR-84-11	16.70	18.20	1.49	0.32	Tr.	0.82	4.64
	21.18	22.22	1.04	1.40	0.008	1.63	8.49
	24.17	31.61	8.44	0.47	0.007	1.46	18.27
	37.89	38.71	0.82	0.98	0.004	0.55	9.02

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CONCLUSIONS/RECOMMENDATIONS:

Conclusions

The Scotia massive sulphide mineralization is located, at the West Ridge, on a -31^{O} mountain slope. The mountain slope terrain is situated in a north-south direction and the massive sphalerite zone strikes N20^{O}W upslope, from the 847 metre elevation. It is difficult to locate drill sites on the upslope terrain of the West Ridge to intersect the 853 metre level of sphalerite mineralization. The property is located on the windward side of the Kitimat Range of the Coastal Mountains and is indulated with abundant rainfall. The most favorable weather conditions, suitable for heliocopter flying, occur in September and October.

1. Geology Scotia Property:
   a) The Scotia property is situated on the east side of the Ecstall Pluton and overlays the Central Gneiss Complex gneissic assemblage of rocks that are PALEOZOIC (?) in age.

   b) The Central Gneiss Complex Unit-1 lithology has been identified by W. W. Hutchison to contain Subunits 1b-1c-1d. The Scotia property overlays subunit 1c, however drill core and field mapping suggest the rock types are similar to subunits 1b-1c-1d. The Central Gneiss Complex rock types that occur in the drill core logged in 1980 - 1981 and 1984 are within the following listed classification.

CENTRAL GNEISS COMPLEX - Work Channel Amphibolite

FELSIC GNEISS/TUFF:

a) Quartz-Feldspar-Sericite Gneiss
b) Quartz-Sericite Schist
c) Pyritic Quartz-Sericite Gneiss
d) Amphibolite

FELSIC GNEISS:

a) Massive Sulphides-Sphalerite 85-95%
b) Semi-Massive Sulphides-Sphalerite 30-50%

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FELSIC/MAFIC GNEISS:

a) Mixed Felsic and Mafic Gneiss

MAFIC GNEISS:

a) Hornblende-Biotite Gneiss
b) Biotite-Garnet-Hornblende Gneiss
c) Sillimanite Gneiss
d) Grey Hornblende-Biotite-Quartz Gneiss

PLUTONIC INTRUSIVES

MIGMATITE:

a) Diorite
b) Quartz Diorite
c) Gneissic Diorite or Quartz Diorite

c) The rock types have no sharp boundaries, do not repeat in any sequence and appear to be gneissic, banded, schistose, massive or foliated. There is no geological correlation to suggest that the massive sulphide mineralization is controlled by rock type. The most general observation is that the mineralization is most often contained in a felsic gneiss.

2. Structure Scotia Property:

a) The zinc and silver mineralization occurs within a drag fold structure. The drag folds noted on the property at the gossan outcrop and areas adjacent to drill holes AR-84-3 and 4 indicated a possible 30 - 35^{o} south plunge. The drag folds suggests shearing between incompetent and competent beds in a possible overturned fold structure. The shearing probably has occurred between beds of gneissic rock types. W. W. Hutchison reports banded gneiss, irregular layered gneiss veined gneiss and fluidal gneiss deposition in the Central Gneiss Complex. The Central Gneiss Complex subunits 1b-1c-1d strikes northwest on the Scotia property. The West Ridge mineralized zone is reported to be situated on the west limb of an anticline structure

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that dips westerly. The drill indicated mineralization trends N20^{O}W and occurs laterally within the northwest strike direction of the Central Gneiss Complex rock types. Note Figure #5 that shows an overturned fold in relation to the structural deformed drag folding.

3. Mineralization Scotia Property:

a) The zinc, silver, lead and gold mineralization, occurs within an Upper-Middle-Lower zone. The mineralized zones strike N20^{O}W, dip -40^{O} southwest and rake -9^{O} south. The mineralized zones undulate along a 228 metre length structure or are slightly offset by minor cross faults perpendicular to the structure.

b) The zinc mineral sphalerite has a specific gravity of 3.9 - 4.1 and is non electrical conductive. During deposition the heavy sphalerite bearing solutions would tend to accumulate in the lower part of a broad structure. Within a drag fold structure sphalerite mineralization would be expected to occur at a greater thickness in the broad roll base of the fold. Sphalerite would tend to be squeezed into the narrow neck of the upper part of the drag fold.

c) The ore zones are interpreted to be contained within an overturned fold, with related drag folding caused by shearing at the outer sides of layered or fluid gneissic flows.

d) The ore mineralization are enclosed within a complicated deformed structural feature but is consistent in continuity along the strike and dip of the zones.

e) The writer postulates that the ore zones are within an overturned drag fold structure that is sinuous in shape when plunging at depth. The reader is referred to Figure #6 - Hypothetical Ore Zone. The 1984 drill holes with -45^{O}, -60^{O} and -65^{O} dips that intersected the Upper-Middle-Lower ore zones, are possibly zinc intersects on the same overturned fold. The 1980 drill holes that dip -90^{O} were possibly located to the west of the ore zone that were near vertical

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in dip as the zinc mineralization overturned and folded toward the east. The Scotia ore zones are required to be visualized in a vector dimension with X-Y-Z axis.

f) The Scotia ore zones are within a folded structure and to further delineate the zinc mineralization close spaced "vertical" drill holes are required along a 070^{0} azimuth surface section line.

4. Mineralization Scotia Property:

a) The massive to semi-massive sphalerite mineralization contains features of a volcanogenic massive sulphide deposit.

b) The Scotia ore zone mineralization contains the following listed sulphide minerals:

- Sphalerite: occurs 85-95% massive, 30-50% semi-massive and minor 3-5% scattered crystals with galena, pyrite or pyrrhotite.

- Galena: occurs as coarse or fine granular crystals at 0.5-2% and rarely to 5% with pyrite, pyrrhotite, bornite and sphalerite.

- Bornite: noted to occur in scattered places in the 1984 drill hole core, probably a partial source of copper in the ore zones.

- Chalcopyrite: occurs in parts of the core as less than 1% with pyrite, pyrrhotite and galena. Probably contains silver and gold.

- Pyrite: disseminated in gneiss and schist bands, from 3-10% and up to 20% in zones adjacent to sphalerite rich ore zones. Is associated with galena, pyrrhotite, bornite and chalcopyrite.

- Pyrrhotite: occurs 1% or less with pyrite, galena, chalcopyrite and bornite in fringe zones to the massive sphalerite.

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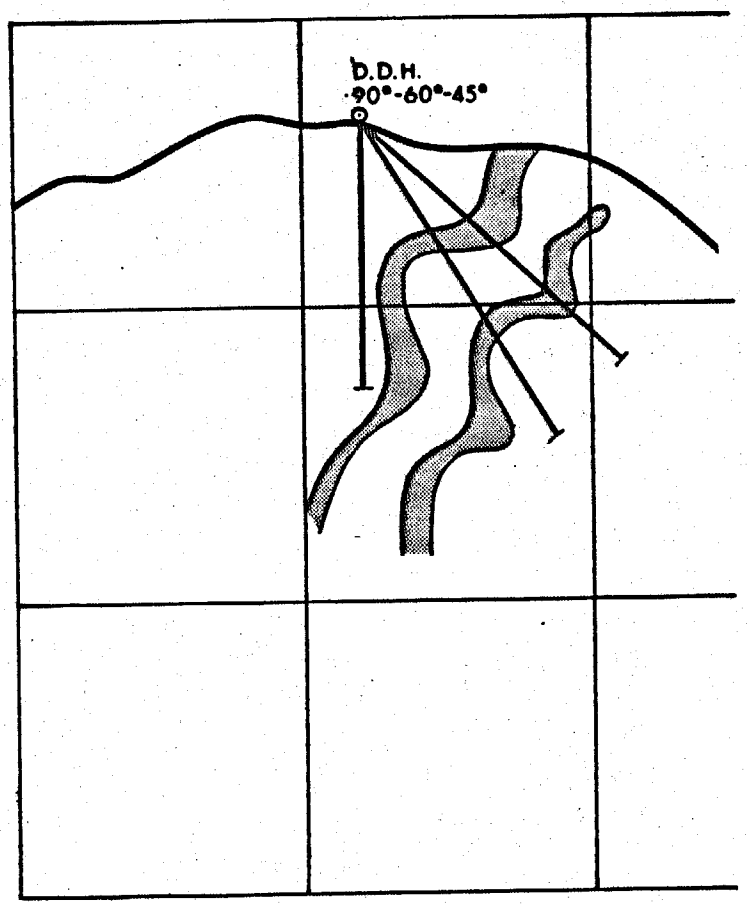
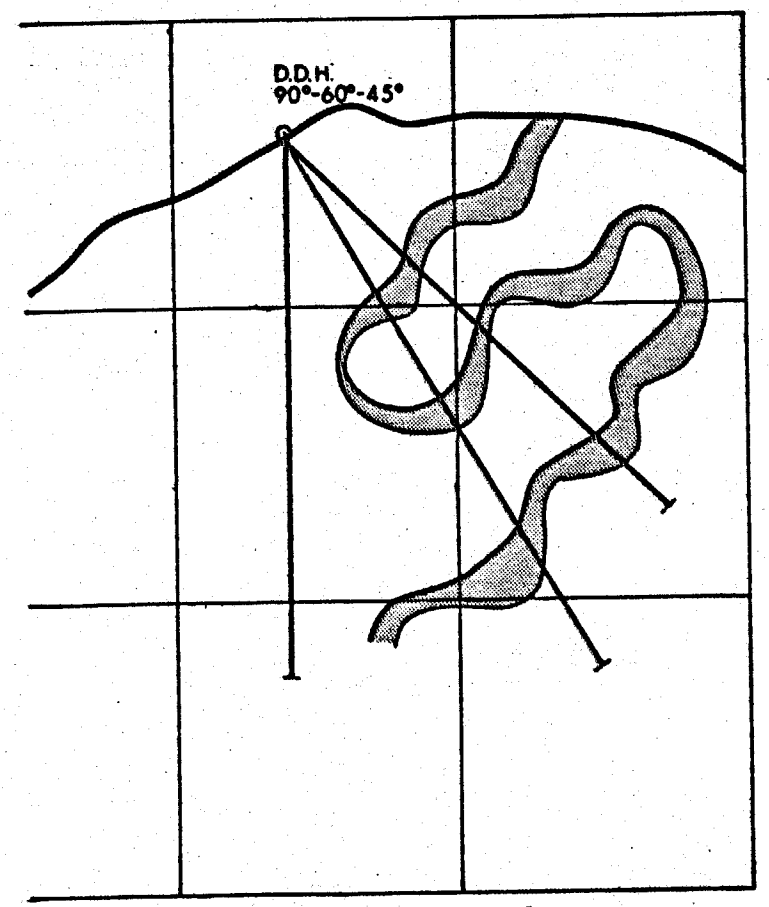


MODEL-1



MODEL-2

NOTE - Previous drilling possibly missed ore zone due to structure configuration by folding.

FIGURE No.6

DWG. R.G. HILKER.

SCOTIA PROPERTY

HYPOTHETICAL ORE ZONE FOLDED STRUCTURE AND DRAG FOLDS

SCALE: N/A

DATE: JAN. 1985

Recommendations - Underground Development

The Scotia property 1984 drill program confirmed an Upper-Middle-Lower sulphide mineral zone, that was partly delineated in the 1960 and 1980 drill programs. The three zones undulate in a N20°W strike direction along a 228 metre length. The zinc mineralization dips -40° southwest and rakes -9° to the south within a folded and flow-like structure. The -31° West Ridge mountain slope hinders diamond drill programs because of the terrain. The three zinc mineralized zones are extremely consistent along the 228 metre strike length and only vary in elevation from the north to the south end by -9° rake within the structure.

Therefore, the writer recommends that the zinc mineralized ore zones be further developed by underground methods. A portal at the 838 metre elevation would be required to the west of drillsite AR-84-1 and approximately 305 metres of cross-drift and development drifts mined along the mineralized structure. It would be necessary to construct 6.44 kilometres of access road from the southern end of the existing logging road located on Scotia Creek. The reader is referred to the Topography Plan of the Existing and Proposed Roads - Scale 1:25,000.

Estimated Underground Development Costs

1)	6 kilometres road construction @ $15,000/km. ----------	$100,000
	- Backhoe method sidehill road building	
2)	274 metre drifts and crossdrifts @ $985/m. ----------	270,000
3)	30 metre equivalent drifts for drill stations @ $985/m. ----------	30,000
4)	46 metres of ventilation raise @ $738/m. ----------	34,000
5)	4,575 metres of underground drilling @ $39/m. ---------	180,000
6)	Camp and miscellaneous equipment ----------	100,000
	Total Program Costs ----------	$714,000

R. G. Hilker, P. Eng.
May 14, 1985

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Recommendations - Surface Drill Program

The Scotia property has been drilled in 1960-1980-1981 and 1984, that indicated an Upper-Middle-Lower ore zone. The ore zones were delineated along a 228 metre strike length within a continuous structure. The massive sphalerite mineralization occurs in drag folds within a folded structure.

A surface diamond drill program is recommended on the Scotia property, should it not be possible to conduct underground development and exploration at this time period. Further drilling should be conducted along surface lines at an azimuth of 070°. A combination of vertical and inclined holes should be located to acquire maximum ore zone data along the 228 metre structure.

Estimated Drill Program Costs

1)	Contract Drill - 1,067 m. @ $72/m.	$ 77,000
2)	Heliocopter Flying	35,000
3)	Linecutting and Transit Baseline	10,000
4)	Camp Costs	25,000
5)	Drillsite Construction and Powder	8,000
6)	Assaying	10,000
7)	Radio Communications	2,500
8)	Transportation Vehicle Expenses	7,000
9)	Travel Expenses	5,000
10)	Geologist	16,000
11)	Camp Cook	7,500
12)	Supervision Geologist	35,000
	Total Cost Drill Program	$238,000
	Contingency	37,000
		$275,000

R. G. Hilker, P. Eng.
May 14, 1985

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QUALIFICATIONS

I, ROBERT G. HILKER, of 324 Silver Valley Rise, N.W., in the City of Calgary in the Province of Alberta, DO HEREBY CERTIFY;

1. THAT I am a Consulting Geologist, with an office located at 324 Silver Valley Rise, N.W., in the City of Calgary, in the Province of Alberta.

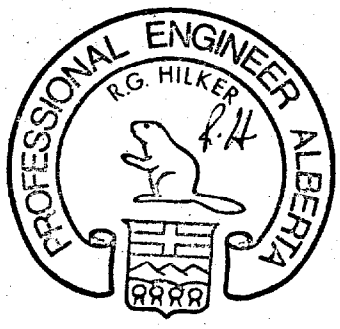
2. THAT I am a graduate of the Michigan Technological University located at Houghton, Michigan, U.S.A., where I obtained a Bachelor of Science Degree in Geological Engineering (Exploration Option) in 1962.

3. THAT I am a registered Professional Geological Engineer; in the Association of Professional Engineers, Geologists and Geophysicists of Alberta - #38356; The Association of Professional Engineers of the Yukon Territory; The Association of Professional Engineers of British Columbia (non-residence license); a Fellow of the Geological Association of Canada; and a Member of the Society of Mining Engineers of AIME - #1436600.

4. THAT I have practised my profession as an engineer and geologist for the past twenty-three years.

5. THAT I have personally supervised the 1984 Diamond Drill Program on the Scotia property that is located on NTS Sheet 103-I-4E, in the Skeena Mining Division; the claims centered at approximately Lat. 54°05'N and Long. 129°40'W; prepared drill sections and hole plans; reviewed previous exploration data on the Scotia property; prepared this report from available property data, G.S.C. Memoir 394 and observations of the drill core; processed assay data and acknowledge that D. C. Plecash assisted in the drill program and logged the core from eleven holes completed in 1984.

DATED this 14th day of May, 1985 at the City of Calgary in the Province of Alberta.



R. G. Hilker, P. Eng.

"APPENDIX"

Scotia Zinc Property
1984 Exploration Drill Program
Geological Evaluation Report
May 14, 1985

R. G. Hilker, P. Eng.

Andaurex Resources Inc.,
1984 Scotia Property
Drill Program

Re - Valuation of Work - Section (2)

A total of 771.49 metres of BQ size diamond drilling was conducted at drill sites AR-84-1 through AR-84-11 on the ALBERE #2 - 19319 claim, between the dates of August 5th through September 24th, 1984.

(a) Personnel Employed:

Casual Labour:

Aug. 3 & 4	-	R. Rolls- 3 days @ $70/day ----------	$ 140.00
Aug. 5, 6, 7	-	K. Mellisen - 3 days @ $150/day ------	450.00
Aug. 5	-	B. Muir - 1 day @ $125/day ----------	125.00
Aug. 5, 6, 7	-	D. Barnett - 3 days @ $125/day -------	375.00
Sept. 1	-	D. L. McConaghy - 1 day @ $150/day ---	150.00
Sept. 3 & 7	-	K. Mellisen - 2 days @ $150/day ------	300.00
Sept. 15	-	----- - 1 day @ $200/day ----------	200.00
Sept. 24	-	Bob Swift - 1 day @ $150/day ---------	150.00
Sept. 24	-	J. Maskiewich - 1 day @ $125/day -----	125.00
Sept. 25 & 26	-	------ - 2 days @ $100/day ----------	200.00
Sept. 25 & 26	-	K. Maskiewich - 2 days @ $100/day ----	200.00
		Sub-Total ----------	$2,415.00

Field Crew:

Heather L. Blomgren - Contract Cook @ $2,500/month - July through September 30, 1984 ----------	$5,625.00
D. C. Pleacash - Contract Geologist (Professional) @ $4,000/month - July 15 through October 31, 1984 ------	$14,000.00
R. G. Hilker, P. Eng. - Tron Duik Consultants Ltd. contracted professional fees June 1st - October 31, 1984 - total fees $36,000 (Engineering & Geology). ---	$36,000.00
- Sub-Total Contract Costs ----------	$55,625.00

Drill Crew:

Contract drill crew August 14 through September 21, 1984, Core Enterprises Ltd. employed Alan Harvie - driller and John Harvie - drill helper (total drill contract costs $47,258.00).

Total Costs Personnel Employed: ----------	$58,040.00

(b) Field Camp Costs:

- Casual Labourer - 19 mandays in August and September
- Field Crew (Blomgren/Pleacash/Hilker), August 5 - September 24, 1984 (51 days) or 153 mandays.
- Drill Crew (A. Harvie & J. Harvie) August 14 - September 21, 1984 (39 days) or 78 mandays.

Total 250 mandays in campsite at cost of $24,434.20.

(c) Field Costs - Related to Drill Project:

Total Field Costs	$15,701.21
Geological Equipment	1,800.00
Radio Communications	1,613.10
Field Travel Expenses	3,887.94
Vehicle Expenses - Pick-up Truck & Ryder Rental	4,303.56
Misc. Office and Accounting Expenses	1,325.00
Sub-Total Costs	$28,630.81

(d) Diamond Drill Contract Costs:

Drill Contract 771.49 metres BQ drilling	$47,258.00
Drill Site Preparation - Dieter Dev. Ltd.	3,443.27
Sub-Total	$50,701.27

(e) Assaying & Freight Costs:

- Airfreight for samples from Smithers to Calgary
- 98 samples assayed for Au/Ag. Zn, Pb @ $28.50/sample
- 10 samples assayed for Cd @ $12.00/sample

Total Assay Costs	$ 3,887.94

(f) Helicopter Flying:

Glacier Heliocopter - Smithers, B.C. - 60.7 hours of contract flying plus fuel	$26,750.17

(g) Core Storage:

- Freight for boxes of core from Smithers to Revelstoke warehouse	$ 1,400.00
- Warehouse storage	600.00
Sub-Total	$ 2,000.00

(h) Report Preparation - Drill Sections/Plans

All costs for 1984 drill report on the Scotia Property, drill sections, drill location plans, report location sketches, topography plans, all related drafting and reproduction costs, typing and related report costs.

- Total Costs Drill Report/Assessment Report --------- $14,420.09

(i) Miscellaneous Office and Field Expenses:

Miscellaneous related office, accounting, direct field expenses, field travel and expenditures for the 1984 drill program.

- Total Documented Office and Field Costs ---------- $27,800.54

Summary of Valuation Costs

1)	Casual Labour	$ 2,415.00
2)	Engineering/Geology & Field Crew	55,625.00
3)	Field Camp Costs	24,434.20
4)	Field Costs/Drill Project	28,630.81
5)	Diamond Drill Contract Costs	50,701.27
6)	Assaying & Freight Costs	3,887.94
7)	Heliocopter Flying	26,750.17
8)	Core Storage & Freight	2,000.00
9)	Report Preparation	14,420.09
10)	Miscellaneous Related Office and Field Costs	27,800.54
	Total Drill Program Costs	$236,665.02

R. G. Hilker

May 15, 1985

Agent for Andaurex Resources Inc.

Andaurex Resources Inc.

P.O. BOX 173, 1 FIRST CANADIAN PLACE
TORONTO, CANADA
CANADA M5X 1C7

SUITE 4800

TELEPHONE (416) 363-1681
363-1682

STATEMENT OF EXPLORATION AND DEVELOPMENT EXPENSES INCURRED ON THE SCOTIA PROPERTY NTS 103-1-4E - SKEENA MINING DIVISION, BRITISH COLUMBIA

Flying and Transportation	$ 26,750.17
Assaying	3,887.94
Diamond Drilling	50,701.27
Camp Operations	24,434.20
Engineering, Geology, Field Costs	130,891.44
	$236,665.02

Claim	Units	Record No.	Recorded	Anniversary Date
Scotia #1	20	1418	July 17, 1979	July 17, 1992
Scotia #2	6	1419	July 17, 1979	July 17, 1992
Albere #1	--	19318	Aug. 3, 1960	Aug. 3, 1992
Albere #2	--	19319	Aug. 3, 1960	Aug. 3, 1992
Albere #3	--	19320	Aug. 3, 1960	Aug. 3, 1992
Albere #4	--	19321	Aug. 3, 1960	Aug. 3, 1992

Certified Correct:

ANDAUREX RESOURCES INC.

W.P. Hammond, P.Eng.,
President.

April 9, 1985.

To: IRON DUIK CONSULTANTS
c/o Glacier Helicopters
P.O. Box 3548
Smither,B.C., V0J 2N0
cc: Andaurex Resources

File No. 26800
Date September 7, 1984
Samples Core
PROJECT: SCOTIA

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn	% Fe
"Core Samples" AR-84-1					
#3404	.004	.24	.28	.26	-
#3405	.030	.69	1.85	11.25	-
#3406	.032	.99	.56	2.00	8.38
#3407	.012	.32	.29	.59	5.81
#3408	Trace	.10	.11	.55	8.50
#3409	.004	.32	.21	1.53	6.48
#3410	.006	1.16	.34	20.81	14.43

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

P. Endes

Assayer

To: TRON DUIK CONSULTANTS
c/o Glacier Heleicopters
P.O. Box 3548
Smither,B.C., V0J 2N0
cc: Andaurex Resources

File No. 26800
Date September 7, 1984
Samples Core
PROJECT: SCOTIA

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn	% Fe
"Core Samples"					
AR-84-2					
#3411	.014	.54	.20	.15	7.25
#3412	.020	1.24	4.61	34.18	5.30
#3413	.016	.80	1.69	15.25	5.82
#3414	.004	.18	.23	10.87	10.83
#3415	.010	.70	.79	38.85	10.37
#3416	.004	.02	.19	38.83	-

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

D. Enders
Assayer

To: TRON DUIK CONSULTANTS
c/o Glacier Helicopters
P.O. Box 3548
Smither,B.C., V0J 2N0
Attn: R.G. Hilker
cc: W.P. Hammond

File No. 26811
Date September 7, 1984
Samples Core

PROJECT: SCOTIA

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn
"Core Samples"				
AR-84-3				
#3417	.008	.50	.74	2.58
#3418	.014	.62	1.29	.74
#3419	.010	.88	1.91	13.11
#3420	.016	1.88	4.42	9.25
#3421	.012	.98	.71	20.91
#3422	.014	1.18	1.65	17.29
#3423	.004	2.04	2.06	29.01
#3424	Trace	.64	.29	13.70
#3425	.018	.42	.06	40.44
#3426	.010	.56	.32	42.77
#3427	.016	.94	.97	23.65
#3428	.008	.98	2.06	19.77
#3429	.004	.68	1.44	17.24
#3430	.012	.64	.56	1.62

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES. . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

P. Enders

Assayer

To: TRON DUIK CONSULTANTS
c/o Glacier Helicopters
P.O. Box 3548
Smither,B.C., V0J 2N0
Attn: R.G. Hilker
cc: Andaurex - W.P. Hammond

File No. 26811
Date September 7, 1984
Samples Core
PROJECT: SCOTIA

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn
"Core Samples"				
AR-84-4				
#3432	.024	.82	.75	10.96
#3432	.002	.78	1.20	9.54
#3433	.018	.80	.23	32.64
#3434	.022	1.16	4.53	17.67
#3435	.022	1.40	3.70	23.70
#3436	.018	.86	1.19	19.77
#3437	.010	2.18	3.21	20.47
#3438	.020	1.40	3.40	33.28
#3439	.016	.18	.42	13.02
#3440	.006	.84	1.19	3.56

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

D. Enders

Assayer

To: TRON DUIK CONSULTANTS LTD
324 Silver Valley Rise N.W.,
Calgary, Alberta T3B 4B2
cc: Andaurex W.P. Hammond

File No. 26834
Date September 13, 1984
Samples Core
SCOTIA PROJECT

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn
"Core Samples" Hole AR-84-5				
#3441	Trace	.16	.10	.04
#3442	Trace	.20	.06	.02
#3443	.004	.42	.11	.04
#3444	.006	1.06	1.07	8.11
#3445	.006	1.24	3.21	19.27
#3446	.004	.62	1.57	27.42
#3447	.002	.96	2.40	20.86
#3448	.010	2.10	5.64	15.98
#3449	.006	1.62	5.82	20.27
#4651	Trace	.52	.79	3.60
#4652	.002	.60	.43	1.98

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Eales

Assayer

To: TRON DUIK CONSULTANTS INC
324 Silver Valley Rise N.W.,
Calgary, Alberta T3B 4B2
cc: Andaurex W.P. Hammond

File No. 26834
Date September 13, 1984
Samples Core
SCOTIA PROJECT

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn
"Core Samples"				
Hole AR-84-6				
#4653	.018	1.18	1.19	2.40
#4654	.034	2.78	2.50	3.22
#4655	.016	2.56	.41	.43
#4656	.004	.56	.23	.51
#4657	.004	.80	.23	.16
#4658	.004	.36	.24	2.20
#4659	.050	2.22	1.65	1.41
#4660	.010	.36	.37	.51
#4661	Trace	.14	.10	1.15
#4662	Trace	.34	.17	16.66
#4663	.002	.90	2.41	25.39
#4664	Trace	.32	.09	.43
#4665	.002	.12	.08	.11

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

P. Loring
Assayer

To: TRON DUIK CONSULTANTS LTD
c/o Glacier Helicopters
P.O. Box 3548
Smithers, B.C., V0G 2N0
cc: Andaurex Resources Inc
W.P. Hammond

File No. 26877
Date September 25, 1984
Samples Core
PROJECT: SCOTIA
Hole AR-84-7,8.9

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn
Hole AR-84-7				
#4666	.002	.62	1.08	13.88
4667	.006	.14	.71	34.78
4668	.008	.84	1.53	29.56
4669	.004	.56	1.83	4.82
#4670	.002	1.06	3.30	24.44
4671	.010	2.60	10.84	29.01
4672	.002	.68	1.59	2.80
4673	.-02	1.32	2.60	17.63
#4674	.004	.32	.23	3.39

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TRON DUIK CONSULTANTS LTD
c/o Glacier Helicopters
P.O. Box 3548
Smithers, B.C., V0G 2N0
cc: Andaurex Resources Inc
W.P. Hammond

File No. 26877
Date September 25, 1984
Samples Core
PROJECT: SCOTIA
Hole AR-84-7,8,9

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn
Hole AR-84-8				
#4675	.008	.56	.89	2.61
4676	.038	.44	.73	31.74
4677	.022	.28	.02	32.19
#4678	.018	3.62	8.82	9.69

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Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TRON DUIK CONSULTANTS LTD
c/o Glacier Helicopters
P.O. Box 3548
Smithers,B.C., V0G 2N0
cc: Andaurex Resources Inc
W.P. Hammond

File No. 26877
Date September 25, 1984
Samples Core
PROJECT: SCOTIA
Hole AR-84-7,8,9

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn
Hole AR-84-9				
#4679	.006	1.18	2.09	5.63
#4680	.004	.76	2.02	11.55

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TRON DUIK CONSULTANTS LTD
324 Silver Valley Rise N.W.,
Calgary,Alberta T3B 4B2
Attn: R.G. Hilker
cc: Andaurex

File No. 26908
Date October 5, 1984
Samples Core
PROJECT: SCOTIA

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn
"Core Samples"				
Hole AR-84-10				
#4681	.004	.48	.46	6.82
#4682	.002	.46	1.54	23.05
#4683	.018	.70	2.34	7.53
#4684	.004	.50	.88	1.59
#4685	Trace	.54	1.40	1.58
#4686	.002	.68	1.27	39.15
#4687	.010	.30	1.39	1.98
#4688	.002	.28	.65	30.30
#4689	.008	.10	.42	6.78
#4690	.004	.26	.07	26.23
#4691	.002	.62	1.37	33.73
#4692	.008	.74	1.07	17.04
#4693	.004	1.12	1.41	2.06

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

D. Eades

Assayer

To: TRON DUIK CONSULTANTS LTD
324 Silver Valley Rise N.W.,
Calgary,Alberta T3B 4B2
Attn: R.G. Hilker
cc: Andaurex

File No. 26908
Date October 5, 1984
Samples Core
PROJECT: SCOTIA

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn
"Core Samples"				
Hole AR-84-11				
#4694	Trace	.32	.82	4.64
#4695	.008	1.40	1.63	8.49
#4696	.014	1.34	4.97	38.20
#4697	Trace	.30	1.35	4.69
#4698	.002	.24	.65	5.19
#4699	.006	.56	.33	14.36
#4700	.010	.22	1.76	34.87
#4556	.018	.92	1.29	32.19
#4557	.004	.98	.55	9.02

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

ejects Retained one month.
Pulps Retained one month
less specific arrangements
ade in advance.

D. Eades

Assayer

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike N70° E	Lat.	Hole No. AR-84-1
Date August 23 19 84	Section No.	Dip -45°	Dep.	Total Depth 49.99 m
Logged By R. G. Hilker, D.C. Plecash	Plan No.	Level	Elev. 847.34 m	Page No. 1

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE)	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	RECOV.	ASSAY DATA Zn	Pb	Ag	Au	Fe
0	0.30	Overburden										
0.30	0.46	Dark Grey Mafic Gneiss										
0.46	3.63	Banded Medium Grey to White Felsic	Pyr Prr	2-5								
		Gneiss and Quartz Diorite, 3.0' core loss										
		Core to Beds @ 0.91 = 65°										
		Core to Beds @ 3.05 = 78°										
3.63	4.36	Banded Medium Grey to White Felsic Gneiss	Pyr	2								
		and Quartz Diorite										
4.36	4.36	Dark Grey Mafic Gneiss										
4.36	11.58	Mixed Bands of Felsic Gneiss with Quartz										
		Diorite laced with Sph; Gl; Cpy										
		4.36 - 5.64	Pyr; Gl	5-10	3404	1.28	4.1	0.28	0.28	0.24	0.004	-
		5.64 - 7.83	Sph;Gl;Cpy	15-20	3405	1.89	100%	11.25	1.85	0.69	0.030	-
		7.83 - 9.14	Cpy;Gl;Pyr	10-15	3406	1.31	"	2.00	0.56	0.99	0.032	8.38
		9.14 - 10.36	Pyr; Gl	5-10	3407	1.22	"	0.59	0.29	0.33	0.012	5.81
		10.36 - 11.58	Pyr	10	3408	1.22	"	0.55	0.11	0.10	Tr.	8.50
11.58	12.95	Dark Mafic Gneiss										

CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike N70° E	Lat.	Hole No. AR-84-1
Date August 23 19 84	Section No.	Dip -45°	Dep.	Total Depth 49.99 m
Logged By R. G. Hilker, D.C. Plecash	Plan No.	Level	Elev. 847.34 m	Page No. 2

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (Epid. Diop. Garn. Serp. Qtz./Sil. Actino Tremo Chlo. Crystalline. Shearing. Veins. Fracturing. Foliation Grain Size. Texture)	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	RECOV.	ASSAY DATA Zn	Pb	Ag	Au	Fe
12.95	23.5	Mixed Felsic Gneiss and Quartz Diorite										
		13.41 - 13.78	Pyr; Cpy	10-15								
		13.78 - 15.18										
		15.18 - 15.70	Pyr; Gl	3-5								
		15.70 - 17.07										
		17.07 - 18.17	Pyr; Sph	5-10	3409	1.10	100%	1.53	0.21	0.32	0.004	6.48
		Massive Sph. and FeS. 18.17 - 19.45	Sph; Pyr	35-40	3410	1.28	"	20.81	0.34	1.16	0.006	14.43
		Darker Felsic Gneiss 19.45 - 23.50	Pyr	1-2								
		23.35 - 23.50	GL; Cpy	3-5								
23.5	24.69	Diorite Dike with Abundant Mafic Minerals, Medium to Dark Grey in Colour, Black on Fresh Face (80% Pyroxene - 20% Plagioclase and Felsite)										
24.69	25.76	Quartz Diorite - Predominately Quartz										
25.76	34.81	Quartz Vein - Milky White to Glassy Opaque. Small impurities of light green Chlorite.										
		31.42 - 31.61 Minor Pyr, Cpy, Gl	Pyr;Cpy;Gl	1-2								
		32.61 - 33.22 Mafic Gneiss										
		34.38 - 34.69 Interbedded Mafic Gneiss										

CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike N70° E	Lat.	Hole No. AR-84-1
Date August 23 19 84	Section No.	Dip -45°	Dep.	Total Depth 49.99 m
Logged By R. G. Hilker / D.C. Plecash	Plan No.	Level	Elev. 847.34 m	Page No. 3

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. / CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE)
34.81'	49.99	Felsic Gneiss - Whitish Grey abundant
		Quartz with approximately 20% Mafic Minerals
		End of Hole at 49.99 m
		Hole started August 16/84
		Hole finished August 22/84
		Dip test at 23.16 - 45°
		Dip test at 46.94 - 42°

Box No.	Core Footage	Meters
1	0 - 28.0'	0 - 8.53
2	28.0' - 53.2'	8.53 - 16.22
3	53.2' - 77.1'	16.22 - 23.50
4	77.1' - 102.1'	23.50 - 31.12
5	102.1' - 127.1'	31.12 - 38.74
6	127.1' - 151.8'	38.74 - 46.27
7	151.8' - 164.0'	46.27 - 49.99

MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	ASSAY DATA RECOV.	%CU	%FE	MOLY	AU/AG	INSOL

PROFESSIONAL ENGINEER R.G. HILKER ALBERTA

R. G. Hilker

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike N52° E	Lot.	Hole No. AR-84-2
Date August 23 19 84	Section No.	Dip -45°	Dep.	Total Depth 81.08 m
Logged By R. G. Hilker / D.C. Plecash	Plan No.	Level	Elev. 847.34 m	Page No. 1

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE)	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	RECOV.	ASSAY DATA Zn	Pb	Ag	Au	Fe
0	0.30	Overburden										
0.30	0.58	Diorite Dike - Salt and Pepper appearance. Predominately Pyroxene with Plagioclase and Felsite.										
0.58	4.91	Banded Felsic Gneiss and Quartz Diorite. Predominately Quartz										
		2.13 - 3.05 Pyrite, Minor Chalco Pyrite	Pyr; Cpy	2-5								
4.91	8.47	Felsic Gneiss with Quartz Diorite. Some Pyroxene and Plagioclase Minerals. Ore zine contains Sulphides that vary from 5% Pyrite to semi-massive Sphalerite. In places rock is coarse grained and vuggy contains Orthoclase Feldspars in short chunky crystals that are within the massive brown Sphalerite, also contains Gl, Cpy, Pyr.										
		4.91 - 5.67	Sph,Pyr	5-10	3411	0.76		0.15	0.20	0.54	0.014	7.25
		5.67 - 6.43	Sph,Gl,Pyr	35-40	3412	0.76		34.18	4.61	1.24	0.020	5.30
		21.1' to 22.7' No Sulphides 6.43 - 6.92										
		6.92 - 8.47	Sph,Gl,Pyr		3413	1.55		15.25	1.69	0.80	0.016	5.82
		8.47 has small 1/4" band Pyrite	Pyr.	3-5								

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike N52° E	Lat.	Hole No. AR-84-2
Date August 23 19 84	Section No.	Dip -45°	Dep.	Total Depth 81.08 m
Logged By R. G. Hilker D.C. Plecash	Plan No.	Level	Elev. 847.34 m	Page No. 2

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION GRAIN SIZE. TEXTURE)	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	Zn	Pb	Ag	Au	Fe
8.47	12.98	Quartz Sericite Gneiss. Minor banding of Sph. with Phyrrotite. Light whitish grey	Pyr; Prr	2-4								
		9.54 - 9.91 Thin Bands of Sph. Gl over 0.37	Sph; Gl	3-5								
12.98	13.84	Diorite Dike										
13.84	14.45	Quartz Sericite Gneiss										
14.45	15.33	Diorite Dike										
15.33	15.61	Quartz Sericite Gneiss with some Pyrite	Pyr	5-10								
15.61	16.15	Diorite Dike										
16.15	17.62	Felsic Gneiss with Quartz and some Pyrite and possible Marcasite. Some scattered crystals of Pyroxene and Muscovite.	Pyr	1-2								
17.62	19.48	Felsic Gneiss with Quartz. Contains scattered, banded and disseminated Sph., Pyrite, Marcasite, and also some Pyroxene and Muscovite.										
		17.62 - 19.48	Sph; Pyr	20-25	3414	1.86	100%	10.87	0.23	0.18	0.004	10.83

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike N52° E	Lat.	Hole No. AR-84-2
Date August 23 19 84	Section No.	Dip -45°	Dep.	Total Depth 81.08 m
Logged By R. G. Hilker / D.C. Plecash	Plan No.	Level	Elev. 847.34 m	Page No. 3

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION GRAIN SIZE, TEXTURE)	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	Zn	Pb	Ag	Au	Fe
19.48	20.85	Semi-massive to massive Sphalerite with Galena.	Sph;Gl;	40-50	3415	1.37	100%	38.85	0.79	0.70	0.010	10.37
		Some Chalcopyrite and Iron Pyrite. White Feldspar				1.37						
		crystals in Sphalerite.										
20.85	22.31	Felsic Gneiss with Pyroxene, Quartz and some										
		Feldspar. 21.21 - 21.34 massive Sphalerite	Sph.	50-60								
		(Split for specimen only.)										
22.31	22.74	Diorite Dike										
22.74	37.31	Felsite Gneiss with scattered bands of Mafic Gneiss.										
		Mainly Feld. Light grey to whitish colour. Partly										
		vuggy with Pyroxene - Crystals 70% Feldspar										
		- 30% Mafic minerals.	Pyr.	1%								
		31.30 - 31.67 Massive Sphalerite with Feldspar Crystals	Sph.	40-45	3416	0.37	100%	38.83	0.19	0.02	0.004	
37.31	44.59	Felsic Gneiss mixed with Mafic Gneiss										
44.59	45.26	Felsic Gneiss with Quartz Predominating										
45.26	47.30	Dark Grey Mafic Gneiss										
47.30	49.38	Felsic Gneiss with Quartz Predominating.										

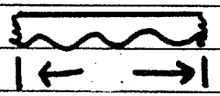
R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike N52° E	Lat.	Hole No. AR-84-2
Date August 23 19 84	Section No.	Dip -45°	Dep.	Total Depth 81.08 m
Logged By R. G. Hilker D.C. Plecash	Plan No.	Level	Elev. 847.34 m	Page No. 4

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (Epid. Diop. Garn. Serp. Qtz/Sil. Actino. Tremo. Chlo. Crystalline. Shearing. Veins. Fracturing. Foliation. Grain Size. Texture)	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	ASSAY DATA RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
49.38	49.90	Dark grey Mafic Gneiss										
49.90	50.81	Mixed Felsic Gneiss with dark grey Mafic Gneiss										
50.81	51.21	Dark grey Mafic Gneiss										
51.21	51.88	Felsic Gneiss with Quartz predominating										
51.88	53.71	Mixed Felsic Gneiss with Quartz predominating and Mafic Gneiss										
53.71	59.13	Mafic Gneiss with small bands of Felsic Gneiss with Quartz predominating.										
59.13	63.70	Mafic Gneiss with a few very small bands of Felsic Gneiss										
63.70	68.28	Fine grained dark grey Mafic Gneiss with an occasional 1" band of Felsitic Quartzy Gneiss.										
68.28	73.55	Dark grey Mafic Gneiss mixed with bands of Felsic Gneiss.										

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike N52° E	Lat.	Hole No. AR-84-2
Date August 23 19 84	Section No.	Dip -45°	Dep.	Total Depth 81.08 m
Logged By R. G. Hilker / D.C. Plecash	Plan No.	Level	Elev. 847.34 m	Page No. 5

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION GRAIN SIZE, TEXTURE)
73.55	81.08	Mixed fine grained Mafic Gneiss with medium grained grey Mafic Gneiss and bands of Felsic Gneiss
		72.09 - 73.46 Some oxide staining
		74.07 - 75.44 Some oxide staining
		75.13  Drag Folding
		8 cm
		End of Hole at 81.08 m
		Hole started August 22/84
		Hole finished August 24/84
		Dip test @ 38.1 m 45°
		Dip test at 78.03 m 43°

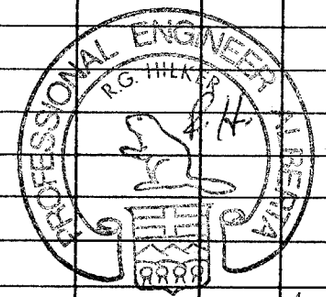
Box No.	Core Footage	Box No.	Core Footage
1	0 - 26.8'	7	146.3' - 169.5'
2	26.8' - 51.0'	8	169.5' - 193.5'
3	51.0' - 74.2'	9	193.5' - 217.4'
4	74.2' - 98.1'	10	217.4' - 241.1'
5	98.1' - 122.4'	11	241.1' - 264.9'
6	122.4' - 146.3'	12	264.9' - 266.0'

MINERALIZATION

TYPE	%	SAMPLE NO.	WIDTH	RECOV.

ASSAY DATA

%CU	%FE	MOLY	AU/AG	INSOL



R. G. Hilker

Box No.	Meters	Box No.	Meters
1	0 - 8.17	7	44.59 - 51.66
2	8.17 - 15.54	8	51.66 - 58.98
3	15.54 - 22.62	9	58.98 - 66.26
4	22.62 - 29.90	10	66.26 - 73.46
5	29.90 - 37.31	11	73.46 - 80.74
6	37.31 - 44.59	12	80.74 - 81.08

CONSULTING GEOLOGIST

PROPERTY: SCOTIA	Claim No.	Strike: S75° E	Lat.	Hole No.: AR-84-3
Date: August 28, 19 84	Section No.	Dip: -61° -30°	Dep.	Total Depth: 61.87 m
Logged By: R. G. Hilker, D.C. Plecash	Plan No.	Level	Elev.: 901 m	Page No.: 1

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO CHLO. CRYSTALLINE. SHEARING. VEINS FRACTURING. FOLIATION GRAIN SIZE. TEXTURE)	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	RECOV.	ASSAY DATA Zn	Pb	Ag	Au	
0	1.22	Overburden										
1.22	3.35	Felsic Gneiss - Diorite Dike 1.98 - 2.32										
3.35	3.96	Diorite Dike										
3.96	4.88	Felsic Gneiss - Diorite Dike 4.57 - 4.88										
		Core to Beds @ 4.72 = 60°										
4.88	8.78	Diorite Dike with short sections of Felsic Gneiss										
8.78	17.68	Felsic Gneiss mixed with Mafic Gneiss										
17.68	20.67	Felsic Gneiss. Pyrite zone on hanging wall side of Sphalerite Mineralization.										
		17.68 - 18.9	Sph, Pyr.	2-5	3417	1.22	100%	2.58	0.74	0.50	0.008	
		18.9 - 20.67	Sph,Gl,Pyr.	3-6	3418	1.77'	100%	0.74	1.29	0.62	0.014	
20.67	23.74	Sphalerite Zone										
		20.79 - 21.34 Orthoclase Feldspar										
		Intermittant Feldspar Phenocrysts 20.67 - 23.16	Sph,Gl,Pyr	15-20	3419	2.5	100%	13.11	1.91	0.88	0.010	
		23.16 - 23.74	Sph,Gl,Pyr	15-20	3420	.58	100%	9.25	4.42	1.88	0.016	

CONSULTING GEOLOGIST

PROPERTY: SCOTIA | Claim No. | Strike: S75° E | Lat. | Hole No.: AR-84-3

Date: August 28 19 84 | Section No. | Dip: -61° -30' | Dep. | Total Depth: 61.87 m

Logged By: R. G. Hilker, D.C. Plecash | Plan No. | Level | Elev.: 901 m | Page No.: 2

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE)	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	RECOV.	ASSAY DATA Zn	Pb	Ag	Au	
23.74	25.73	Felsic Gneiss											
25.73	36.88	Felsic Gneiss - Sphalerite Zone											
		25.73 - 27.68	Sph., Pyr	25-30	3421	1.95	6.0'	20.91	0.71	0.98	0.012	
		27.68 - 29.2	Sph,Gl,Pyr	25-30	3422	1.52	4.8'	17.29	1.65	1.18	0.014	
		29.2 - 30.54	Sph,Gl,Pyr	35-40	3423	1.30	4.3'	29.01	2.06	2.04	0.004	
		30.54 - 32.06	Sph, Pyr	20-25	3424	1.52	4.9'	13.70	0.29	0.64	Tr.	
		32.06 - 33.5	Sph, Pyr	40-45	3425	1.43	100%	40.44	0.06	0.42	0.018	
		33.5 - 34.93	Sph, Pyr	40-45	3426	1.43	"	42.77	0.32	0.56	0.010	
		34.93 - 36.24	Sph, Pyr	25-30	3427	1.31	"	23.84	0.97	0.94	0.016	
		36.24 - 36.88	Sph,Gl,Pyr	25-30	3428	0.64	"	19.77	2.06	0.98	0.008	
36.88	39.11	Mixed Felsic and Mafic Gneiss											
39.11	40.6	Mafic Gneiss Dark Grey											
40.6	42.92	Diorite Dike											
42.92	47.18	Felsic Gneiss											
47.18	52.58	Felsic Gneiss - Scattered Sulphides											
		47.18 - 47.73	Sph,Gl,Pyr	15-20	3429	0.55	100%	17.24	1.44	0.68	.004	
		48.19 - 49.41	Sph, Pyr	3-5	3430	1.22	100%	1.62	0.56	0.64	.012	
		49.93 - 51.42		3-5	4951	1.40	100%	0.85	0.05	.02	.002	

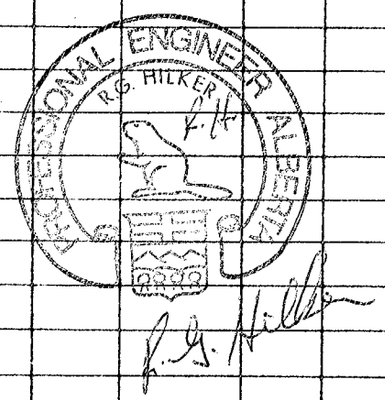
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike S75° E	Lat.	Hole No. AR-84-3
Date August 28 19 84	Section No.	Dip -61° -30°	Dep.	Total Depth 61.87 m
Logged By R. G. HILKER D.C. Plecash	Plan No.	Level	Elev. 901 m	Page No. 3

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO CHLO. CRYSTALLINE SHEARING VEINS FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE
52.58	59.56	Felsic Gneiss with Minor Mafic Minerals predominantly creamy white in colour. Some quartz eyes appearing in core.
59.56	61.26	Mixed Felsic Gneiss with Mafic Gneiss. Some Feldspar appearing in core.
61.26	61.87	Felsic Gneiss End of Hole at 61.87 m Hole Started August 26/84 Hole Finished August 28/84 Dip Test @ 30.48 = 58° Dip Test @ 57.91 = 58°

Box No.	Core Length	Meters
1	0 - 28.8'	0 - 8.78
2	28.8' - 52.4'	8.78 - 15.97
3	52.4' - 76.0'	15.97 - 23.16
4	76.0' - 100.2'	23.16 - 30.54
5	100.2' - 123.9'	30.54 - 37.76
6	123.9' - 147.3'	37.76 - 44.90
7	147.3' - 171.8'	44.90 - 52.36
8	171.8' - 194.7'	52.36 - 59.34
9	194.7' - 203.0'	59.34 - 61.87

MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV	%CU	%FE	MOLY	AU/AG	INSOL



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PROPERTY SCOTIA	Claim No.	Strike N75° E	Lat.	Hole No. AR-84-4
Date August 31 19 84	Section No.	Dip -60°	Dep.	Total Depth 60.05 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 870.5 m	Page No. 1

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (Epid Diop. Garn. Serp. Qtz/Sil. Actino Tremo Chlo. Crystalline. Shearing. Veins. Fracturing. Foliation Grain Size. Texture)	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	RECOV.	ASSAY DATA Zn	Pb	Ag	Au	
0	1.22	Overburden										
1.22	1.77	Felsic Gneiss - Slightly Oxidized										
1.77	8.84	Mafic Gneiss										
		2.29 - 3.35 Mixed Mafic Gneiss and Felsic Gneiss										
		7.62 - 8.23 Mixed Mafic Gneiss and Felsic Gneiss										
		8.38 - 8.84 Diorite Dike										
8.84	17.62	Felsic Gneiss Mixed with Mafic Gneiss										
		Pyrite appearing at 13.62 - 17.62	Pyr	2-4								
		15.82 - 17.37	Sph, Pyr	10-15	3431	1.55	100%	10.96	0.75	0.82	0.024	
17.62	43.74	Felsic Gneiss										
		Epidote Stringers Appearing 17.37 - 18.93	Sph,Gl,Pyr	10-15	3432	1.55	100%	9.54	1.20	0.78	0.002	
		Between 21.03 and 21.64 18.93 - 20.06	Sph	35-40	3433	1.13	100%	32.64	0.23	0.80	0.067	
		20.06 - 21.40	Sph, Pyr	5-7		1.34	100%					
		21.40 - 22.62	Sph, Pyr	5-7		1.22	100%					
		22.62 - 24.23 Quartz Diorite										
		24.87 - 25.09 Mafic Gneiss 26.24 - 27.71	Sph,Gl,Pyr	15-20	3434	1.46	100%	17.67	4.53	1.16	0.022	
		25.45 - 26.03 Mafic Gneiss 27.71 - 29.08	Sph,Gl,Pyr	20-25	3435	1.37	100%	23.70	3.70	1.40	0.022	
		26.24 - 31.03 Massive Sphalerite 29.08 - 31.03	Sph,Gl,Pyr	20-25	3436	1.95	100%	19.77	1.19	0.86	0.018	
		With Phenocrysts of Feldspar up										
		To 5cm in size.										

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PROPERTY SCOTIA	Claim No.	Strike N75° E	Lat.	Hole No. AR-84-4
Date August 31 19 84	Section No.	Dip -60°	Dep.	Total Depth 60.05 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 870.5 m	Page No. 2

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION GRAIN SIZE, TEXTURE	MINERALIZATION TYPE	%	SAMPLE No.	WIDTH	RECOV.	ASSAY DATA Zn	Pb	Ag	Au	
		31.03 - 31.79 Mafic Gneiss										
		31.73 - 33.59	Sph, Gl,Pyr	20-25	3437	1.55	100%	20.47	3.21	2.18	0.010	
		33.59 - 35.11	Sph, Gl,Pyr	30-35	3438	1.52	100%	33.28	3.40	1.40	0.020	
		35.11 - 35.57	Sph,Gl,Pyr	10-15	3439	0.46	100%	13.02	0.42	0.18	0.016	
		35.57 - 35.94 Amphibole with Pyroxene										
		36.18 - 36.52 Diorite Dike										
		37.0 - 37.37 Amphibole										
		38.4 - 39.56 Amphibole with Pyroxene										
		41.67 - 41.82 Mafic Gneiss										
		42.37 - 42.61 Amphibole with Pyroxene										
		41.76 - 43.74	Sph,Gl,Pyr	5-10	3440	1.98	100%	3.56	1.19	0.84	0.006	
43.74	45.35	Mixed Felsic Gneiss and Mafic Gneiss										
45.35	60.05	Mixed Mafic Gneiss and Felsic Gneiss										
		46.33 - 47.43 Quartz Diorite										
		48.07 - 48.37 Pyroxene										
		49.14 - 49.87 Drag Folding										
		50.44 - 50.69 Quartz Diorite										
		58.52 has 15 mm Band of Iron Pyrite										
		End of Hole at 60.05 m										

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PROPERTY SCOTIA	**Claim No.**	**Strike** N75° E	**Lat.**	**Hole No.** AR-84-4
Date August 31 19 84	**Section No.**	**Dip** -60°	**Dep.**	**Total Depth** 60.05 m
Logged By D.C. Plecash /R. G. Hilker	**Plan No.**	**Level**	**Elev.** 870.5 m	**Page No.** 3

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE
		Hole Started Aug.28/84
		Hole Finished Aug.30/84
		Dip Test @ 56.39 m= 57°
		Box No. Core Length (Meters)
		1 0 - 8.60
		2 8.60 - 16.09
		3 16.09 - 23.23
		4 23.23 - 30.45
		5 30.45 - 37.73
		6 37.73 - 44.81
		7 44.81 - 52.06
		8 52.06 - 59.44
		9 59.44 - 60.05

MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	Zn	Pb	Ag	Au	

PROFESSIONAL ENGINEER R.G. HILKER BRITISH COLUMBIA

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PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-5
Date September 30 19 84	Section No.	Dip -45°	Dep.	Total Depth 84.43 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 886.4 m	Page No. 1

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION GRAIN SIZE. TEXTURE	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
0	0.61	Overburden										
0.61	12.31	Felsic Gneiss										
		0.61 - 4.88 - 2.44 m Core Loss	Pyr	1-2								
		6.4 - 7.32 Quartz Diorite										
		11.77 - 12.01 Quartz Diorite										
12.31	19.23	Mixed Felsic Gneiss and Mafic Gneiss										
19.23	21.95	Mafic Gneiss										
		19.26 - 19.63 Pyroxene										
21.95	24.87	Felsic Gneiss with Stringers of Brown Biotite Schist										
		and the odd fleck of Pyrite										
24.87	28.65	Mixed Mafic Gneiss and Felsic Gneiss										
28.65	32.92	Felsic Gneiss										
		28.41 - 29.06 Quartz Diorite										
		30.48 - 30.66 Pyroxene										
		31.09 - 31.30 Bands of Pyroxene										
32.92	34.20	Mafic Gneiss										
		33.71 - 33.79 Quartz Diorite										

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PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-5
Date September 3, 19 84	Section No.	Dip -45°	Dep.	Total Depth 84.43 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 886.4 m	Page No. 2

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE, TEXTURE)		MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	RECOV.	ASSAY DATA Zn	Pb	Ag	Au	
34.20	62.91	Felsic Gneiss											
		35.75 - 36.09	Mixed Mafic and Felsic Gneiss	Pyr	1-3								
		39.01 - 39.26	Mixed Mafic and Felsic Gneiss										
		36.09 - 37.25	Quartz Diorite										
			39.99 - 41.76	Pyr	1-3	3441	1.77	100%	0.04	0.10	0.16	Tr	
			41.76 - 42.58	Pyr	1-3	3442	0.82	100%	0.02	0.06	0.20	Tr	
			42.58 - 43.80	Pyr	1-3	3443	1.22	100%	0.04	0.11	0.42	0.004	
			43.80 - 45.63	Sph, Pyr	10-15	3444	1.83	100%	8.11	1.07	1.06	0.006	
		45.63 - 46.15	Mixed Mafic and Felsic Gneiss										
		46.15 - 46.42	Quartz Diorite										
		48.46 - 48.71	Thin Bands of Epidote - Light Green										
		50.08 - 50.14	Pyroxene										
		51.42 - 55.29	Occasional Blebs of Quartz Diorite										
		55.78 - 55.9	Pyroxene										
		56.08 - 56.27	Pyroxene										
		57.18 - 57.24	Pyroxene 57.24 - 58.19	Sph,Gl,Cyp	20-25	3445	0.94	100%	19.27	3.21	1.24	0.019	
		59.10 - 59.22	Pyroxene 58.19 - 59.59	Sph,Gl,Cyp	25-30	3446	1.40	100%	27.42	1.57	0.62	0.018	
			59.59 - 60.96	Sph,Gl,Cyp	20-25	3447	1.37	100%	20.86	2.40	0.96	0.009	
			60.96 - 62.00	Sph,Gl,Cyp	20-25	3448	1.04	100%	15.98	5.64	2.10	0.003	
62.91	63.64	Mafic Gneiss											

R.G. HILKER
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PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-5
Date September 3, 19 84	Section No.	Dip -45°	Dep.	Total Depth 84.43 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 886.4 m	Page No. 3

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE)	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	RECOV.	ASSAY DATA Zn	Pb	Ag	Au	
63.34	64.47	Felsic Gneiss - Heavy Sulphides										
		63.64 - 64.47	Sph,Gl,Pyr	20-25	3449	0.82	100%	20.27	5.82	1.62	0.006	
64.47	65.62	Mixed Mafic and Felsic Gneiss										
65.62	67.36	Mafic Gneiss										
67.36	68.09	Felsic Gneiss										
68.09	68.52	Mafic Gneiss										
68.52	71.35	Mixed Mafic Gneiss and Felsic Gneiss										
		68.85 - 69.49 Quartz Diorite mixed in with Mafic and Felsic Gneiss										
71.35	74.16	Felsic Gneiss with Bands of Biotite and Sericite Schists										
		73.37 has 15 mm band of Iron Pyrite										
		71.35 - 72.02	Sph,Gl,Pyr	3-5	4651	0.67	100%	3.60	0.79	0.52	Tr	
		73.55 - 74.16	Sph,Gl,Pyr	3-5	4652	0.61	100%	1.98	0.43	0.60	0.002	
74.16	84.43	Mafic Gneiss										
		74.65 - 76.47 Felsic Gneiss										
		75.47 - 75.62 Felsic Gneiss										

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PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-5
Date September 3, 19 84	Section No.	Dip -45°	Dep.	Total Depth 89.43 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 886.4 m	Page No. 4

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION GRAIN SIZE. TEXTURE
		78.03 - 78.09 Band of Quartz
		80.35 - 80.47 Quartz Diorite
		81.63 - 81.72 Quartz
		82.08 - 82.36 Qua z Diorite
		82.63 - 83.06 Large Breccia to 0.61in Size with Felsic and Epidote Phenocrysts
		84.0 - 84.06 Quartz Stringer
		End of Hole at 84.43 m
		Hole Started Sept.1/84
		Hole Finished Sept.3/84
		Dip Test @81.08 = 45°
		Box No. — Core Length (Meters)
		1 — 0 - 10.15
		2 — 10.15 - 17.5
		3 — 17.5 - 24.81
		4 — 24.81 - 32.06
		5 — 32.06 - 39.35
		6 — 39.35 - 46.76
		7 — 46.76 - 53.83
		8 — 53.83 - 60.96
		9 — 60.96 - 68.37
		10 — 68.37 - 75.62
		11 — 75.62 - 82.45
		12 — 82.45 - 84.43

MINERALIZATION TYPE	%	ASSAY DATA Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag	Insol

PROFESSIONAL ENGINEER R.G. HILKER 9888

R. G. Hilker

R.G. HILKER
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PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-6
Date September 5, 1984.	Section No.	Dip -65°	Dep.	Total Depth 92.35 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 886.4 m	Page No. 1

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION GRAIN SIZE. TEXTURE)	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
0	0.91	Overburden										
0.91	10.58	Felsic Gneiss 0.91 - 5.18 - 2.29 Core Loss										
		4.05 - 4.27 Mafic Gneiss										
		4.79 - 4.97 Quartz Diorite										
		7.77 - 7.86 Pyroxene										
		8.17 - 8.32 Quartz Diorite										
		9.08 - 10.58 Quartz Diorite with the Odd Fleck of Iron Pyrite										
10.58	12.95	Mafic Gneiss mixed with Felsic Gneiss										
12.95	14.33	Mafic Gneiss										
14.33	17.43	Mixed Mafic Gneiss and Felsic Gneiss										
17.43	18.65	Felsic Gneiss Darker than Normal with Some Pyrrhotite	Pyrr.	1-3								
18.65	22.13	Felsic Gneiss with Pyrrhotite										
		19.42 - 19.6 Pyroxene 18.65 - 19.17	Pyrr.	15-20								
		20.67 - 20.73 Pyroxene										
		21.03 - 21.15 Pyroxene 21.15 - 23.07	Pyrr.	3-5								
		21.61 - 21.73 Pyroxene										

R.G. HILKER
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PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-6
Date September 5 19 84	Section No.	Dip -65°	Dep.	Total Depth 92.35 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 886.4 m	Page No. 2

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION GRAIN SIZE. TEXTURE	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
22.13	26.43		Felsic Gneiss with Brown Biotite Schist										
26.43	27.19		Mafic Gneiss										
27.19	27.86		Felsic Gneiss										
27.86	28.29		Mafic Gneiss										
28.29	30.88		Felsic Gneiss - Medium Grey										
30.88	33.92		Felsic Gneiss with Bands of Brown Biotite Schist and Sericite Some Pyrites at 30.88 - 33.92 32.89 to 33.19 Massive Brown Biotite Schist and Sericite Schist	Pyr.	5-10								
33.92	35.20		Mixed Mafic Gneiss and Felsic Gneiss										
35.20	37.7		Felsic Gneiss with Bands and Blebs of Brown Biotite Schist, Sericite Schist and some Pyrite 35.66 m has 5 mm Band of Chalco Pyrite	Pyr.	5-10								

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PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-6
Date September 5, 19 84.	Section No.	Dip -65°	Dep.	Total Depth 92.35 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 886.4 m	Page No. 3

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE, TEXTURE)	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	Zn.	Pb.	Ag.	Au.	
37.7	67.51	Felsic Gneiss Medium Grey to Creamy White with Little										
		Brown Biotite Throughout										
		38.40 Some Folding										
		41.09 - 41.27 Quartz Diorite										
		41.27 - 41.73	Pyr.	1-3								
		41.73 - 43.62	Sph,Gl,Pyr	3-5	4653	1.89	100%	2.40	1.19	1.18	0.018	
		43.62 - 45.05	Sph,Gl,Pyr	5-8	4654	1.43	100%	3.22	2.50	2.78	0.034	
		45.05 - 46.51	Sph,Gl,Pyr	1-3	4655	1.46	100%	0.43	0.41	2.56	0.016	
		45.26 - 45.45	Sph,Gl,Pyr	10-15		0.18						
		46.51 - 48.31	Pyr		4656	1.8	100%	0.51	0.23	0.56	0.004	
		48.31 - 49.26			4657	0.94	100%	0.16	0.23	0.80	0.004	
		49.26 - 50.38 Much Sericite Schist and a little Biotite Schist										
		49.87 - 51.76	Sph,Gl,Pyr	2-5	4658	1.89	100%	2.20	0.24	0.36	0.004	
		51.76 - 53.61	Sph,Gl,Pyr	2-5	4659	1.86	100%	1.41	1.65	2.22	0.050	
		53.52 - 55.11 Felsic Gneiss										
		54.19 - 54.28 Little Sph. & Gl.	Sph, Gl	3-5								
		55.11 - 58.37 Felsic Gneiss with Much Sericite Schist and a little Pyrite	Pyr.	1-3								
		58.37 - 59.8	Pyr.	1-2	4660	1.43	100%	0.51	0.37	0.36	0.010	
		59.8 - 61.48	Sph, Pyr	5-10	4661	1.68	100%	1.15	0.10	0.14	Tr.	
		61.48 - 62.7	Sph.	20-25	4662	1.22	100%	16.66	0.17	0.34	Tr.	
		62.7 - 64.13	Sph.	25-30	4663	1.43	100%	25.39	2.41	0.90	0.002	

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-6
Date September 5, 19 84.	Section No.	Dip -65°	Dep.	Total Depth 92.35 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 886.4 m	Page No. 4

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	RECOV.	ASSAY DATA Zn.	Pb.	Ag.	Au.	
		64.13 - 65.71	Pyr.	1-3	4664	1.58	100%	0.43	0.09	0.32	Tr.	
		65.71 - 67.51	Pyr.	1-3	4665	1.80	100%	0.11	0.08	0.12	0.002	
67.51	80.77	Mixed Mafic Gneiss and Felsic Gneiss										
		68.21 - 68.67 Brownish Red Stains (Hematite)										
		70.23 - 70.35 Quartz Diorite										
		73.24 - 73.46 Quartz Diorite with Red Staining										
		75.16 - 75.22 Pyroxene										
		75.22 - 75.29 Quartz										
		75.86 - 76.02 Bands of Green Andesite and Iron Pyrite in Felsic Gneiss										
80.77	92.35	Mafic Gneiss										
		82.84 - 83.27 Quartz Diorite										
		84.89 - 85.10 Bands of Green Andesite in Felsic Gneiss										
		86.2 - 86.29 Quartz										
		86.99 - 87.08 Quartz										
		89.89 - 90.53 Felsic Gneiss										
		End of Hole at 92.35										

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-6
Date September 5, 19 84	Section No.	Dip -65°	Dep.	Total Depth 92.35 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 886.4 m	Page No. 5

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE
		Hole Started September 3/84
		Hole Finished September 5/84
		Dip Test at 90.22m s 65°
		Box No. Core Length (Meters)
		1 0 - 10.03
		2 10.03 - 17.28
		3 17.28 - 24.38
		4 24.38 - 31.88
		5 31.88 - 39.14
		6 39.14 - 46.51
		7 46.51 - 53.83
		8 58.33 - 61.23
		9 61.23 - 68.67
		10 68.67 - 76.02
		11 76.02 - 83.58
		12 83.58 - 90.83
		13 90.83 - 92.35

MINERALIZATION TYPE	%	ASSAY DATA Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag	Insol

PROFESSIONAL ENGINEER R.G. HILKER

R.G. Hilker

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY: SCOTIA
Date: September 9 19 84
Logged By: D.C. Plecash/R. G. Hilker
Claim No.:
Section No.:
Plan No.:
Strike: Due East
Dip: -60°
Level:
Lat.:
Dep.:
Elev.: 918.06 m
Hole No.: AR-84-7
Total Depth: 93.57 m
Page No.: 1

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (Epid. Diop. Garn. Serp. Qtz/Sil. Actino Tremo. Chlo. Crystalline. Shearing. Veins. Fracturing. Foliation. Grain Size, Texture)	MINERALIZATION TYPE	MINERALIZATION %
0	0.61	Overburden		
0.61	3.96	Felsic Gneiss 0.61 - 3.96 - 2.44 Core Loss		
3.96	18.26	Mafic Gneiss mixed with medium grey Felsic Gneiss		
		4.51 - 4.60 Quartz Diorite with pieces of Pyrrhotite up to 20 mm in size		
		4.57 - 5.18 Flat Drag Folding		
		5.97 - 6.22 Quartz Diorite with Pyrrhotite		
		6.71 - 6.89 Quartz Diorite with Pyrrhotite		
		8.9 - 10.67 Mixed Bands of Quartz Diorite with Pyrite and Gneiss	Pyr.	1-2
		8.96 - 9.14 Mixture of Biotite Schist and Gneiss		
		12.44 - 12.5 Pyroxene		
		15.85 - 15.91 Bands of Quartz Diorite and Pyrite		
		16.15 - 16.22 Bands of Quartz Diorite and Pyrite		
		17.43 - 17.8 Mixture of Epidote, Quartz Diorite and Felsic Gneiss with some Pyrite	Pyr.	2-5
		17.83 - 18.26 Phenocrysts of Feldspar up to 5mm in size		

ASSAY DATA Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag	Insol

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-7
Date September 9 19 84	Section No.	Dip -60°	Dep.	Total Depth 93.57 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 918.06 m	Page No. 2

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (Epid. Diop. Garn. Serp. Qtz/Sil. Actino Tremo. Chlo. Crystalline. Shearing. Veins. Fracturing. Foliation Grain Size. Texture)	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag	Insol
18.26	36.91	Felsic Gneiss										
		18.56 - 18.84 Mafic Gneiss										
		18.84 - 18.99 Granodiorite										
		20.09 - 20.39 Quartz Diorite										
		20.67 - 21.18 Mixture of Felsic Gneiss with Blebs of Amphibole and Pyrite	Pyr	2-5								
		24.69 - 24.75 Bands of Pyroxene										
		24.75 - 24.9 Quartz Diorite										
		24.99 - 25.09 Bands of Biotite Schist and Pyroxene										
		25.39 - 25.54 Mafic Gneiss										
		29.63 - 31.24 Few Small Stringers of Epidote										
		32.16 - 32.92 Amphibole and Pyroxene										
		33.53 - 33.99 Mafic Gneiss										
		36.70 - 36.85 Quartz Band										
36.91	47.24	Felsic Gneiss with Pyrite, Pyrrhotite and White Sericite										
		37.8 - 38.71 More Pyrrhotite Appearing	Pyr., Pyrr	5-10								
		38.92 - 39.44 More Pyrrhotite Appearing	Pyr., Pyrr	5-10								
		40.02 - 40.33 Bands of Brown Biotite Schist and Amphibole. Little Sph. in Core.	Sph.	1-2								
		41.0 - 41.42 More Pyrrhotite Appearing	Pyrr.	2-5								
		42.34 - 42.4 Amphibole										
		42.4 Has a 12mm Band of Massive Sphalerite	Sph.	45-50								
		44.65 - 44.9 Amphibole										

R.G. HILKER
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PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-7
Date September 9 19 84	Section No.	Dip -60°	Dep.	Total Depth 93.57 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 918.06 m	Page No. 3

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	Zn.	Pb.	Ag.	Au.	
		45.32 - 45.35 Band of Massive Sphalerite	Sph.	35-40								
		45.48 - 45.54 Amphibole										
		45.93 - 45.99 Amphibole										
47.24	49.19	Mixed Mafic Gneiss and Felsic Gneiss										
49.19	54.28	Mafic Gneiss										
54.28	17.30	Mixed Mafic Gneiss and Felsic Gneiss										
17.30	58.28	Mafic Gneiss										
		57.61 - 57.73 Quartz Band										
58.28	62.61	Medium Grey Felsic Gneiss										
		59.89 - 60.11 Amphibole										
62.61	63.09	Felsic Gneiss - Heavy Mineralized										
		62.61 - 63.09	Sph.	15-20	4666	0.49	100%	13.88	1.08	0.62	0.002	

R.G. HILKER
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PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-7
Date September 9 19 84	Section No.	Dip -60°	Dep.	Total Depth 93.57 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 918.06 m	Page No. 4

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (Epid. Diop. Garn. Serp. Qtz/Sil. Actino Tremo. Chlo. Crystalline. Shearing. Veins. Fracturing. Foliation. Grain Size. Texture)	MINERALIZATION TYPE	%	Sample No.	Width	Recov.	Zn.	Pb.	Ag.	Au.	
63.09	67.6	Medium Grey Felsic Gneiss										
		63.09 - 63.25 Amphibole										
		63.12 - 63.15 Band of Quartz										
		63.25 - 63.28 Band of Quartz										
		64.31 - 65.84	Sph.	30-35	4667	1.52	100%	34.78	0.71	0.14	0.006	
		65.84 - 67.48	Sph.	30-35	4668	1.65	100%	29.56	1.53	0.84	0.008	
		67.48 - 67.6 Amphibole										
67.6	73.55	Mixed Mafic and Felsic Gneiss										
		70.26 - 71.31 Some Quartz and Pyrite	Pyr.	1-3								
		71.32 - 71.78 Mafic Gneiss										
		71.87 - 72.09 Small Bands of Epidote										
		72.09 Has a 5mm Band of Massive Sphalerite										
73.55	85.62	Felsic Gneiss - Mineralized										
		73.55 - 75.29	Sph,Gl,Pyr.	6-10	4669	1.71	100%	4.82	1.83	0.56	0.004	
		75.29 - 76.41	Sph,Gl,Pyr.	25-30	4670	1.13	100%	24.44	3.30	1.06	0.002	
		76.41 - 76.72 Amphibole										
		77.33 - 77.51 Some Epidote on Fractures										
		77.51 - 78.33 Mixed Amphibole and Felsic Gneiss with little Pyrite and the odd piece of Chalcopyrite	Pyr, Cyp.	2-5								

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-7
Date September 9 19 84	Section No.	Dip -60°	Dep.	Total Depth 93.57 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 918.06 m	Page No. 5

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE, TEXTURE	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	RECOV.	ASSAY DATA Zn.	Pb.	Ag.	Au.	
		78.33 - 79.13 Mafic Gneiss										
		78.46 - 78.49 Band of Quartz										
		79.03 - 79.10 Band of Quarts										
		79.43 - 80.19	Sph, Gl.	40-45	4671	0.76	100%	29.01	10.84	2.60	0.010	
		80.19 - 81.38 Medium Grey Felsic Gneiss										
		81.38 - 82.78	Sph,Gl,Pyr.	4-6	4672	1.40	100%	2.80	1.59	0.68	0.009	
		Some Brown Biotite Schist 82.78 - 84.19	Sph,Gl,Pyr.	20-25	4673	1.40	100%	17.63	2.60	1.32	0.009	
		Some Brown Biotite Schist 84.19 - 84.73	Sph,Gl,Pyr.	3-5	4674	0.55	100%	3.39	0.23	0.32	0.007	
		84.43 - 84.73 Patches of Chlorite										
		85.22 - 85.34 Bands of Brown Biotite Schist and Graphite Schist										
		85.44 - 85.62 Epidote on Fractures										
85.62	26.64	Mixed Mafic Gneiss and Felsic Gneiss										
		86.56 - 86.65 Band of Quartz										
26.64	93.57	Mafic Gneiss										
		89.92 - 91.26 Mixed Felsic and Mafic Gneiss										
		92.51 - 92.81 Mixed Felsic and Mafic Gneiss										
		92.81 - 93.12 Small Bands of Quartz										
		End of Hole at 93.57										

R.G. HILKER
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PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-7
Date September 9 19 84	Section No.	Dip -60°	Dep.	Total Depth 93.57 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 918.06 m	Page No. 6

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE
		Hole Started September 7/84
		Hole Finished September 9/84
		Dip Test at 90.53is 60°
		Box No. Core Length (Meters)
		1 0 - 9.94
		2 9.94 - 18.44
		3 18.44 - 25.79
		4 25.79 - 33.07
		5 33.07 - 40.84
		6 40.84 - 48.07
		7 48.07 - 55.47
		8 55.47 - 62.85
		9 62.85 - 70.07
		10 70.07 - 77.51
		11 77.51 - 84.86
		12 84.86 - 92.17
		13 92.17 - 93.57

MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL

PROFESSIONAL ENGINEER ALBERTA R.G. HILKER

R. G. Hilker

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-8
Date September 12 19 84	Section No.	Dip -60°	Dep.	Total Depth 78.33 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 905.9 m	Page No. 1

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (Epid. Diop. Garn. Serp. Qtz/Sil. Actino Tremo. Chlo. Crystalline. Shearing. Veins. Fracturing. Foliation. Grain Size. Texture)	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	ASSAY DATA RECOV.	Zn.	Pb.	Ag.	Au.	
0	1.22	Overburden										
1.22	26.15	Felsic Gneiss - Medium Grey										
		1.22 - 5.18 - 1.65 Core Loss										
		3.84 - 4.82 Mafic Gneiss										
		4.08 - 4.21 Quartz Band										
		5.18 - 5.7 Amphibole										
		6.04 - 7.04 Amphibole										
		8.41 - 8.53 Quartz Diorite										
		14.9 - 14.97 Biotite Schist and Amphibole										
		16.31 - 16.49 Quartz Diorite										
		21.24 - 22.16 Amphibole with some small (2 mm) Phenocrysts of Feldspar throughout										
26.15	29.2	Mafic Gneiss										
		28.16 - 28.56 Bands of Felsic Gneiss										
29.2	31.88	Mixed Mafic Gneiss and Felsic Gneiss										
31.88	36.61	Felsic Gneiss - Mineralized										
		33.65 - 33.71 Amphibole										
		33.65 - 33.71	Sph,Gl,Pyr	3-5	4675	1.07	100%	2.61	0.89	0.56	0.008	
		33.71 - 36.12	Sph,Gl,Pyr	30-35	4676	1.34	100%	31.74	0.73	0.44	0.038	
		36.18 - 36.27 Amphibole										

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-8
Date September 12, 19 84	Section No.	Dip -60°	Dep.	Total Depth 78.33 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 905.9 m	Page No. 2

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE)	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	Zn.	Pb.	Ag.	Au.	
36.61	40.87	Mafic Gneiss											
		38.16 - 38.25 Felsic Gneiss											
		38.62 - 38.71 Felsic Gneiss											
		39.32 - 39.5 Quartz with blebs of Pyroxene and some Pyrite	Pyr.	2-4									
		39.84 - 40.02 Felsic Gneiss											
40.87	43.16	Felsic Gneiss											
		42.76 - 42.82 Small Stringers of Epidote											
43.16	44.84	Mafic Gneiss											
44.84	60.81	Felsic Gneiss											
		44.93 - 45.02 Quartz Diorite											
		45.69 - 45.75 Amphibole											
		46.57 - 46.63 Mafic Gneiss											
		46.82 - 46.86 Quartz											
		49.5 - 53.1 Little Pyrite showing with the odd fleck of Galena	Gl., Pyr.	1-2									
		53.43 - 53.95 Small Stringers of Epidote											
		53.98 - 54.68 Little Pyrite	Pyr.	1-2									
		Mineralization 55.32 - 55.66	Sph,Gl,Pyr	30-35	4677	0.34	100%	32.19	0.02	0.28	0.022		
		55.66 - 55.69 Amphibole											
		55.69 - 55.93 Mafic Gneiss											

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-8
Date September 12 19 84	Section No.	Dip -60°	Dep.	Total Depth 78.33 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 905.9 m	Page No. 3

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (Epid. Diop. Garn. Serp. Qtz/Sil. Actino Tremo Chlo. Crystalline. Shearing. Veins. Fracturing. Foliation. Grain Size, Texture)	MINERALIZATION TYPE	%	ASSAY DATA Sample No.	Width	Recov.	Zn.	Pb.	Ag.	Au.	
		55.93 - 56.51 Some Pyrite and Pyrrhotite	Pyr, Pyrr	2-4								
		56.51 - 56.66 Amphibole										
		56.75 - 57.64 Mafic Gneiss										
		57.64 - 60.81 Quartz Diorite (Pegmatite?)										
60.81	63.86	Mafic Gneiss										
		60.93 - 61.14 Pyroxene Crystals Throughout										
63.86	66.96	Mixed Mafic and Felsic Gneiss 50-50										
		Little Pyrite in Felsic Gneiss	Pyr.	1-2								
66.96	68.76	Amphibole										
		68.28 - 68.55 Felsic Gneiss with Epidote and Chlorite Throughout										
68.76	70.44	Mixed Mafic and Felsic Gneiss										
		Mineralized 69.59 - 70.13	Sph,Gl,Pyr.	15-20	4678	0.55	100%	9.69	8.82	3.62	0.018	
		70.13 - 70.2 Amphibole										
70.44	78.33	Mixed Amphibole, Quartz and Quartz Diorite										
		73.37 - 73.58 Bands of Felsic Gneiss with Epidote and Chlorite										
		75.99 - 76.11 Bands of Felsic Gneiss with Epidote and Chlorite										

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-8
Date September 12 19 84	Section No.	Dip -60°	Dep.	Total Depth 78.33 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 905.9 m	Page No. 4

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION GRAIN SIZE, TEXTURE
		76.41 - 76.5 Quartz
		77.05 - 77.39 Felsic Gneiss
		End of Hole at 78.33
		Hole Started Sept. 10/84
		Hole Finished Sept.12/84
		Dip Test at 75.29 is 61°
		Box No. Core Length (Meters)
		1 0 - 9.81
		2 9.81 - 16.95
		3 16.95 - 24.41
		4 24.41 - 32.0
		5 32.0 - 39.23
		6 39.23 - 46.73
		7 46.73 - 53.98
		8 53.98 - 61.26
		9 61.26 - 68.76
		10 68.76 - 75.29
		11 75.29 - 78.33

MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	RECOV.	ASSAY DATA %Cu	%Fe	MOLY	AU/AG	INSOL

PROFESSIONAL ENGINEER R.G. HILKER ALBERTA

R.G. Hilker

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike N70° E	Lat.	Hole No. AR-84-9
Date September 14 19 84	Section No.	Dip -45°	Dep.	Total Depth 78.33 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 905.9 m	Page No. 1

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (Epid. Diop. Garn. Serp. Qtz/Sil. Actino Tremo. Chlo. Crystalline. Shearing. Veins. Fracturing. Foliation Grain Size. Texture)	MINERALIZATION TYPE	%	ASSAY DATA Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag	Insol
0	1.52	Overburden										
1.52	25.6	Felsic Gneiss										
		1.22 - 5.18 has 1.98m Core Loss										
		10.21 - 10.36 Bands of Quartz and Quartz	Pyr.	1-3								
		Diorite Little Pyrite										
		11.37 - 12.41 Amphibole										
		16.79 - 16.82 Band of Quartz										
		16.82 - 16.98 Amphibole										
		17.1 - 17.34 Bands of Quartz and Quartz Diorite										
		17.34 - 18.41 Quartz Diorite (Pegmatite?) with										
		Flecks of Pyroxene										
25.6	26.58	Mafic Gneiss										
26.58	29.9	Felsic Gneiss - Medium Grey										
29.9	31.18	Amphibole										
31.18	41.97	Felsic Gneiss										
		31.7 - 31.91 Mafic Gneiss										
		32.43 - 32.64 Little Pyrite and Sericite Appearing										
		with small red stains (Hematite)										
		35.23 - 35.97 Felsic Gneiss with Pyrite & Pyrrhotite	Pyr, Pyrr	3-5								

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PROPERTY SCOTIA	Claim No.	Strike N70° E	Lat.	Hole No. AR-84-9
Date September 14, 19 84	Section No.	Dip -45°	Dep.	Total Depth 78.33 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 905.9 m	Page No. 2

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE)	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
		35.97 - 37.09 Mixed Mafic Gneiss and Amphibole										
		38.4 - 38.5 Amphibole										
		38.5 - 38.74 Quartz Diorite										
		38.74 - 39.04 Mafic Gneiss										
		39.78 - 40.29 Quartz Diorite with Blebs of Pyroxene										
		40.97 - 41.03 Band of Quartz										
41.97	45.45	Mixed Mafic Gneiss and Felsic Gneiss 50-50 with a little Pyrite in the Felsic Gneiss										
		42.21 - 42.31 Mixed Felsic Gneiss with Epidote and Chlorite										
45.45	52.70	Mafic Gneiss										
		46.97 - 47.18 Stringers of Quartz										
		49.59 - 50.14 Quartz Diorite (Pegmatite?)										
		50.41 - 50.66 Mixed Felsic Gneiss with Epidote and Hematite										
		52.21 - 52.7 Mixed Amphibole and Pyroxene										
52.70	59.62	Mixed Mafic and Felsic Gneiss										
		53.16 - 53.46 Blebs of Sphalerite up to 20mm in size	Sph	1/2%								
		54.07 - 54.16 Epidote Shot Throughout Core										
		54.59 - 55.14 Bands of Mafic Gneiss										
		56.85 - 57.03 Mafic Gneiss										

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PROPERTY SCOTIA	Claim No.	Strike N70° E	Lat.	Hole No. AR-84-9
Date September 14 19 84	Section No.	Dip -45°	Dep.	Total Depth 78.33 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 905.9 m	Page No. 3

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (Epid. Diop. Garn. Serp. Qtz/Sil. Actino. Tremo. Chlo. Crystalline. Shearing. Veins. Fracturing. Foliation. Grain Size. Texture)	MINERALIZATION TYPE	%	ASSAY DATA Sample No.	Width	Recov.	Zn.	Pb.	Ag.	Au.	
		57.03 - 57.09 Bands of Quartz										
		57.09 - 57.27 Mafic Gneiss										
		57.58 - 58.19 Mafic Gneiss										
		59.07 - 59.16 Band of Quartz										
		59.44 - 59.62 Felsic Gneiss with Pyrite	Pyr.	1-2								
59.62	62.3	Mafic Gneiss										
		60.35 - 60.72 Bands of Quartz										
62.3	70.01	Felsic Gneiss										
		64.71 - 65.26 Amphibole										
		65.26 - 65.71 Mafic Gneiss										
		Mineralization 65.75 - 66.08	Sph,Gl,Pyr.	5-10	4679	0.34	100%	5.63	2.09	1.18	0.006	
		66.08 - 66.51 Amphibole										
		66.93 - 67.21 Mafic Gneiss										
		67.33 - 67.48 Quartz Diorite										
		67.94 - 68.15 Amphibole										
		69.56 - 69.65 Amphibole										
		Mineralization 69.65 - 70.01	Sph,Gl,Pyr.	10-15	4680	0.37	100%	11.55	2.02	0.76	0.004	
70.01	71.63	Amphibole										
		70.68 - 70.93 Quartz Diorite										
		70.93 - 71.38 Quartz Diorite with Amphibole and Chlorite										

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PROPERTY SCOTIA	Claim No.	Strike N70° E	Lat.	Hole No. AR-84-9
Date September 14 19 84	Section No.	Dip -45°	Dep.	Total Depth 78.33 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 905.9 m	Page No. 4

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
71.63	72.09	Mafic Gneiss										
72.09	72.6	Amphibole										
72.6	73.52	Mixed Amphibole and Mafic Gneiss										
73.52	78.33	Mixed Felsic and Mafic Gneiss 50-50										
		76.29 - 76.38 Quartz Diorite and Pyrite	Pyr	1-3								
		77.88 - 77.91 Mixed Felsite and Epidote										
		78.03 - 78.33 Mixed Quartz Diorite Epidote & Chlorite										
		End of Hole at 78.33										
		Hole Started September 12/84										
		Hole Finished September 14/84										
		Dip Test at 75.29 = 46°										

PROFESSIONAL ENGINEER R.G. HILKER

R.G. Hilker

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PROPERTY SCOTIA	Claim No.	Strike N70° E	Lat.	Hole No. AR-84-9
Date September 14, 1984	Section No.	Dip -45°	Dep.	Total Depth 78.33 m
Logged By D.C. Plecash / R. G. Hilker	Plan No.	Level	Elev. 905.9 m	Page No. 5

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE, TEXTURE
		Box No. Core Length (Meters)
		1 0 - 10.94
		2 10.94 - 18.17
		3 18.17 - 25.27
		4 25.27 - 32.83
		5 32.83 - 40.36
		6 40.36 - 47.79
		7 47.79 - 55.14
		8 55.14 - 62.42
		9 62.42 - 69.77
		10 69.77 - 76.93
		11 76.93 - 78.33

MINERALIZATION TYPE	%	ASSAY DATA Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag	Insol

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PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-10
Date September 18 1984	Section No.	Dip -45°	Dep.	Total Depth 45.72 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 860.2 m	Page No. 1

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	Zn.	Pb.	Ag.	Au.	
0	1.83	Overburden										
1.83	33.13	Felsic Gneiss 1.83- 4.88 has 0.98 Core Loss										
		1.83 - 2.07 Mafic Gneiss										
		2.07 - 4.3 Sericite and Pyrite in Felsic Gneiss	Pyr.	1-3								
		4.3 - 4.57 Mafic Gneiss										
		4.88 - 5.36 Mafic Gneiss										
		5.58 - 5.91 Mafic Gneiss										
		6.77 - 8.14 Sericite Schist in Felsic Gneiss										
		8.84 - 8.93 Massive Pyroxene										
		8.93 - 8.99 Quartz Diorite										
		9.48 - 10.24 Mafic Gneiss										
		10.58 - 10.73 Amphibole										
		11.52 - 11.8 Amphibole										
		11.8 - 13.78 Small Amount of Sphalerite and Pyrite in Felsic Gneiss with Quartz Diorite	Sph, Pyr.	1-2								
		13.78 - 13.84 Amphibole										
		15.88 - 16.09 Darker Felsic Gneiss										
		Mineralization 16.09 - 17.43	Sph, Pyr.	5-10	4681	1.34	100%	6.82	0.46	0.48	0.004	
		17.5 - 17.56 Amphibole and Pyroxene										
		Mineralization 17.56 - 18.90	Sph,Gl,Pyr.	25-30	4682	1.43	100%	23.05	1.54	0.46	0.002	
		With Large garnet clusters to 9 mm in size										
		18.99 - 19.69	Sph,Gl,Pyr.	10-15	4683	0.7	100%	7.53	2.34	0.70	0.018	

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-10
Date September 18 19 84	Section No.	Dip -45°	Dep.	Total Depth 45.72 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 860.2 m	Page No. 2

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	ASSAY DATA RECOV.	Zn.	Pb.	Ag.	Au.	
		19.69 - 20.76 Very little Sphalerite or Pyrite observed in core but abundant Sericite Schist	Pyr.	1-2								
		Mineralization 20.76 - 22.04	Sph,Pyr.	2-4	4684	1.28	100%	1.59	0.88	0.50	0.004	
		22.04 - 23.16	Sph,Pyr.	3-5	4685	1.13	100%	1.58	1.40	0.54	Tr.	
		23.16 - 24.08 Mixed Felsic and Mafic Gneiss										
		Mineralization 24.08 - 24.99	Sph, Gl.	40-45	4686	0.91	100%	39.15	1.27	0.68	0.002	
		24.99 - 25.91	Sph, Gl.	3-5	4687	0.91	100%	1.98	1.39	0.30	0.010	
		25.91 - 26.52	Sph.	30-35	4688	0.61	100%	30.30	0.65	0.28	0.002	
		26.52 - 27.89	Sph, Pyr.	5-10	4689	1.37	100%	6.78	0.42	0.10	0.008	
		27.89 - 29.41	Sph, Pyr.	30-35	4690	1.52	100%	26.23	0.07	0.26	0.004	
		29.41 - 30.94	Sph, Pyr.	35-40	4691	1.52	100%	33.73	1.37	0.62	0.002	
		30.94 - 32.16 Mixed Mafic and Felsic Gneiss										
		32.16 - 32.49 Little Galena and Pyrite Flecks	Gl, Pyr.	½-1								
		Mineralization 32.49 33.13	Sph,Gl,Pyr.	20-25	4692	0.64	100%	17.04	1.07	0.74	0.008	
33.13	39.62	Mixed Felsic and Mafic Gneiss 50-50										
		33.65 - 33.68 Massive Sphalerite										
		36.79 - 37.73 Amphibole										
		37.0 - 37.09 Quartz										
		Mineralization - Banded Biotite Schist and Sphalerite 38.47 - 39.62	Sph,Pyr.	3-5	4693	1.16	100%	2.06	1.41	1.12	0.004	

R.G. HILKER
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PROPERTY SCOTIA	Claim No.	Strike Due East	Lat.	Hole No. AR-84-10
Date September 18 19 84	Section No.	Dip -45°	Dep.	Total Depth 45.72 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 860.2 m	Page No. 3

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE, TEXTURE
39.62	45.72	Mafic Gneiss
		40.23 - 40.39 Quartz Diorite with 15 mm Band of Sphalerite in the middle
		41.54 - 41.79 Amphibole
		45.05 - 45.72 Quartz Diorite with Sericite and Blebs of Pyrrhotite up to 5 cm in size
		End of Hole at 45.72
		Hole Started September 17/84
		Hole Finished September 18/84
		Dip Test at 42.67 is 45°
		Box No. Core Length (Meters)
		1 0 - 10.12
		2 10.12 - 17.56
		3 17.56 - 24.99
		4 24.99 - 32.49
		5 32.49 - 39.62
		6 39.62 - 45.72

MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	ASSAY DATA RECOV.	%CU	%FE	MOLY	AU/AG	INSOL

PROFESSIONAL ENGINEER R.G. HILKER

R.G. Hilker

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike N70° E	Lat.	Hole No. AR-84-11
Date September 20, 19 84	Section No.	Dip -45°	Dep.	Total Depth 45.72 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 860.2 m	Page No. 1

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (Epid. Diop. Garn. Serp. Qtz/Sil. Actino Tremo. Chlo. Crystalline. Shearing. Veins. Fracturing. Foliation Grain Size. Texture)	MINERALIZATION TYPE	%	ASSAY DATA Sample No.	Width	Recov.	Zn.	Pb.	Ag.	Au.	
0	1.83	Overburden										
1.83	6.1	Mafic Gneiss										
6.1	32.61	Felsic Gneiss										
		6.1 - 8.02 Some Sericite Schist and Pyrite	Pyr.	1-2								
		8.02 - 11.16 Quartz Diorite and Quartz with Pyrrhotite to 2.54 cm in size										
		11.4 - 11.98 Mafic Gneiss										
		11.98 - 12.07 Quartz										
		12.07 - 14.3 Small Flecks of Pyrite, Sphalerite and Galena	Pyr, Sph,	1-3								
		14.3 - 14.36 Amphibole										
		14.36 - 15.7 Mixed Mafic and Felsic Gneiss 50-50	Pyr.	½-1								
		Mineralization 16.7 - 18.2	Sph, Pyr.	6-10	4694	1.49	100%	4.64	0.82	0.32	Tr.	
		18.2 - 21.18 Little Sericite Schist and Pyrite in Felsic Gneiss	Pyr.	1-2								
		Mineralization 21.18 - 22.22	Sph,Gl,Pyr.	10-15	4695	1.04	100%	8.49	1.63	1.40	0.008	
		22.22 - 24.17 Little Epidote on Fractures										
		23.32 - 26.68 Mafic Gneiss										
		Mineralization with clusters of garnet to 9 mm in the massive Sphalerite 24.17 - 25.30	Sph,Gl,Pyr.	40-45	4696	1.13	100%	38.20	4.97	1.34	0.014	

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PROPERTY SCOTIA	Claim No.	Strike N70° E	Lat.	Hole No. AR-84-11
Date September 20 19 84	Section No.	Dip -45°	Dep.	Total Depth 45.72 m
Logged By D.C. Plecash/R. G. Hilker	Plan No.	Level	Elev. 860.2 m	Page No. 2

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION (EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE)	MINERALIZATION TYPE	%	SAMPLE NO.	WIDTH	RECOV.	ASSAY DATA Zn.	Pb.	Ag.	Au.	
		Mixed Mafic Gneiss and Felsic Gneiss with										
		Sphalerite and Galena 25.3 - 26.52	Sph,Gl,Pyr.	5-8	4697	1.22	100%	4.69	1.35	0.30	Tr.	
		Mineralization with Massive Pyrite at 27.49- 27.77										
		26.52 - 27.77	Sph, Pyr.	8-10	4698	1.25	100%	5.19	0.65	0.24	0.002	
		27.77 - 29.11 Mixed Mafic Gneiss and Felsic Gneiss 70-30										
		Mineralization with Mafic Gneiss from 29.6 - 29.9										
		29.11 - 30.11	Sph, Pyr.	15-20	4699	1.01	100%	14.36	0.33	0.56	0.006	
		Mineralization with Mafic Gneiss from 30.33- 30.42										
		30.42 - 31.64	Sph, Pyr.	35-40	4700	1.52	100%	34.87	1.76	0.22	0.010	
		Mineralization with Mafic Gneiss From 32.31 - 32.4										
		Clusters of garnets 20 mm in size in the										
		Massive Sphalerite 31.64 - 32.61	Sph,Gl,Pyr	30-35	4556	0.98	100%	32.19	1.29	0.92	0.018	
32.61	35.27	Mixed Mafic Gneiss and Felsic Gneiss 60-40										
35.27	36.88	Amphibole										
		36.67 - 36.73 Quartz										
36.88	37.43	Mafic Gneiss										
37.43	38.71	Mixed Mafic Gneiss and Felsic Gneiss										
		37.43 - 37.73 Quartz Diorite										
		37.89 - 38.71 Mixed Mafic and Felsic Gneiss with				0.82						
		Sphalerite and Galena 37.89 - 38.71	Sph, Gl.	10-15	4557	0.82	100%	9.02	0.55	0.98	0.004	

R.G. HILKER
CONSULTING GEOLOGIST

PROPERTY SCOTIA	Claim No.	Strike N70° E	Lat.	Hole No. AR-84-11
Date September 20 19 84	Section No.	Dip -45°	Dep.	Total Depth 45.72 m
Logged By D.C. Plecash /R. G. Hilker	Plan No.	Level	Elev. 860.2 m	Page No. 3

FOOTAGE From	FOOTAGE To	ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION GRAIN SIZE, TEXTURE	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
38.71	40.93	Mafic Gneiss										
		39.35 - 39.38 Quartz Diorite										
		39.47 - 39.62 Quartz Diorite										
40.93	45.72	Mixed Mafic Gneiss and Felsic Gneiss										
		44.68 - 45.48 Quartz Diorite with Pyrrhotite	Pyrr.	1-4								
		45.48 - 45.72 Felsic Gneiss with 5cm Band Pyrite from 45.48 to 45.54	Pyr.	20								
		End of Hole at 45.72										
		Hole Started September 18/84										
		Hole Finished September 19/84										
		Dip Test at 42.67 is 46°										
		Box No. Core Length (Meters)										
		1 0 - 11.09										
		2 11.09 - 18.38										
		3 18.38 - 25.69										
		4 25.69 - 33.01										
		5 33.01 - 40.54										
		6 40.54 - 45.72										

PROFESSIONAL ENGINEER R.G. HILKER

R. G. Hilker

925m.

900m

BASELINE
N.20°W.

(60°) AR-84-7
El.918.1m.

93.57m.

78.33m.

875m.

(45°)AR-84-9
Elev. 905.9m.
(60°)AR-84-8

78.33m.

(45°) AR-84-5
Elev. 886.4m.
(60°)AR-84-6

(6)
92.35m.

(5)
84.33m.

60.05m.

850m.

(60°)AR-84-4
Elev. 870.5m.
(61 1/2°)AR-84-3

81.08m.

61.87m.

45.72m.

(45°) AR-84-11
Elev. 860.2m.
(45°)AR-84-10

45.72m.

49.99m

ALBERE-2
19319
ALBERE-1
19318

(45°)AR-84-2
Elev. 847.3m.
(45°)AR-84-1

MASSIVE
SPHALERITE

825m.

Old Camp

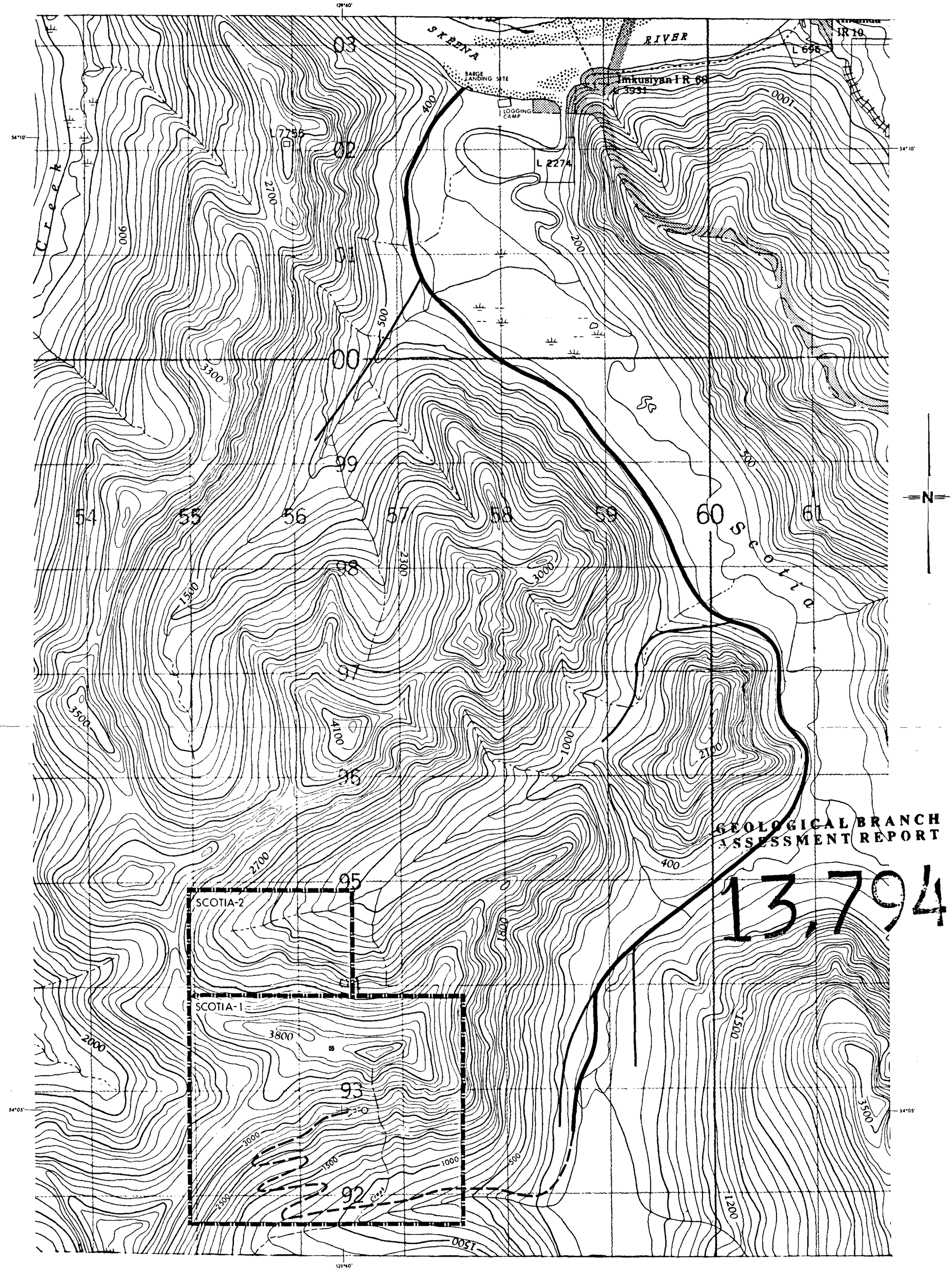
ALBERE-3
19320
ALBERE-4
19321

Helipad

0 10 20 30 40
METERS

PLAN No. 1

ANDAUREX RESOURCES INC.	
SCOTIA PROJECT 1984 DRILL HOLE LOCATION PLAN	
DWG: R.G. HILKER	DATE: MARCH, 1985
SCALE: 1:500	N.T.S. SHEET 103-1-4E



52+00 51+00 50+00 49+00 48+00 47+00

31+00
30+00
29+00
28+00
27+00
26+00

(-45°) AR-84-1
ELEV 918.73m.

4/1
3
5
4/1
2
4/1
5
4/1
Qtz. mass
4/1
1
4
4
AR-84-1
44.99m.

GEOLOGICAL LEGEND

MESOZOIC or PALAEOZOIC

CORDILLERA - COAST CRYSTALLINE COMPLEX – Ecstall Belt

7 Pegmatite Dikes, potassium feld, quartz and in parts granitic.

6 Pyritic Felsic Tuff - mnr sphalerite and galena, bornite qtz.feld, biotite in parts.

5 Massive Sulphides - sphalerite with mnr qtz.-feld gangue in parts semi-mass sphalerite in felsic gneiss or tuff

4 Felsic Gneiss/Tuff - qtz, feld, bio or sericite, in parts pyrite, pyrrhotite or bornite, qtz-sericite schist

3 Felsic/Matic Gneiss - feld, qtz, bio, hornblende and in parts garnets.

2 Matic Gneiss - banded, biotite, hornblende, diopside, plag-feld.

1 Diorite - qtz diorite.

LEGEND

Lithological or Sulphide Contact.

Drill hole collar
(-45°) AR-84-10
ELEV. 860.15 m.

Assay Values
20.30% Zn
0.60 oz/T

HOLE NO.	LENGTH m.	WIDTH m.	Au-oz/T	Ag-oz/T	Pb%	Zn%
AR-84-1	5.64-7.83	1.89	0.03	0.69	1.85	11.25
	17.07-19.45	2.38	0.005	0.77	0.28	11.91

PROFESSIONAL ENGINEER ALBERTA
R.G. HILKER

0 20 40 60 FEET
0 6 12 18 METRES

SECTION No. 1

ANDAUREX RESOURCES INC.

SCOTIA PROPERTY
N.T.S. SHEET 103-I-4E
DIAMOND DRILL HOLE
AR-84-1

DRILL HOLE AZIMUTH 70° SECTION AZIMUTH 340°

Scale 1cm.=5m.	Dwg.
Date Dec. 1984	R.G. Hilker

R.G. HILKER, P.ENG
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27+00
26+00

(-45°) AR-84-2
ELEV 847.34 m.

AR-84-2
81.26 m

R.G.HILKER, P.ENG.
TRON DUIK CONSULTANTS LTD.
CALGARY, ALBERTA.

GEOLOGICAL LEGEND

MESOZOIC or PALAEOZOIC
CORDILLERA : COAST CRYSTALLINE COMPLEX — Ecstall Belt

7. Pegmatite Dikes, potassium feld, quartz and in parts granitic.
6. Pyritic Felsic Tuff - mnr sphalerite and galena, bornite qtz, feld, biotite in parts
5. Massive Sulphides - sphalerite with mnr qtz-feld gangue In parts semi-mass sphalerite in felsic gneiss or tuff
4. Felsic Gneiss/Tuff - qtz, feld, bio or sericite, in parts pyrite, pyrrhotite or bornite, qtz-sericite schist
3. Felsic/Mafic Gneiss - feld, qtz, bio, hornblende and in parts garnets
2. Mafic Gneiss - banded, biotite, hornblende, diopside, plag-feld.
1. Diorite - qtz diorite.

LEGEND

Lithological or Sulphide Contact.

Drill hole collar
(-45°) AR-84-10
ELEV. 860.15m.

Assay Values
20.30% Zn
0.60 oz/T

HOLE NO.	LENGTH m.	WIDTH m.	Au-oz/T	Ag-oz/T	Pb%	Zn%
AR-84-2	5.67- 8.47	2.80	0.014	0.78	2.19	17.74
	17.62-20.85	3.23	0.007	0.40	0.47	22.75
	31.30-31.67	0.37	0.004	0.02	0.19	38.83

PROFESSIONAL ENGINEER ALBERTA
R.G. HILKER

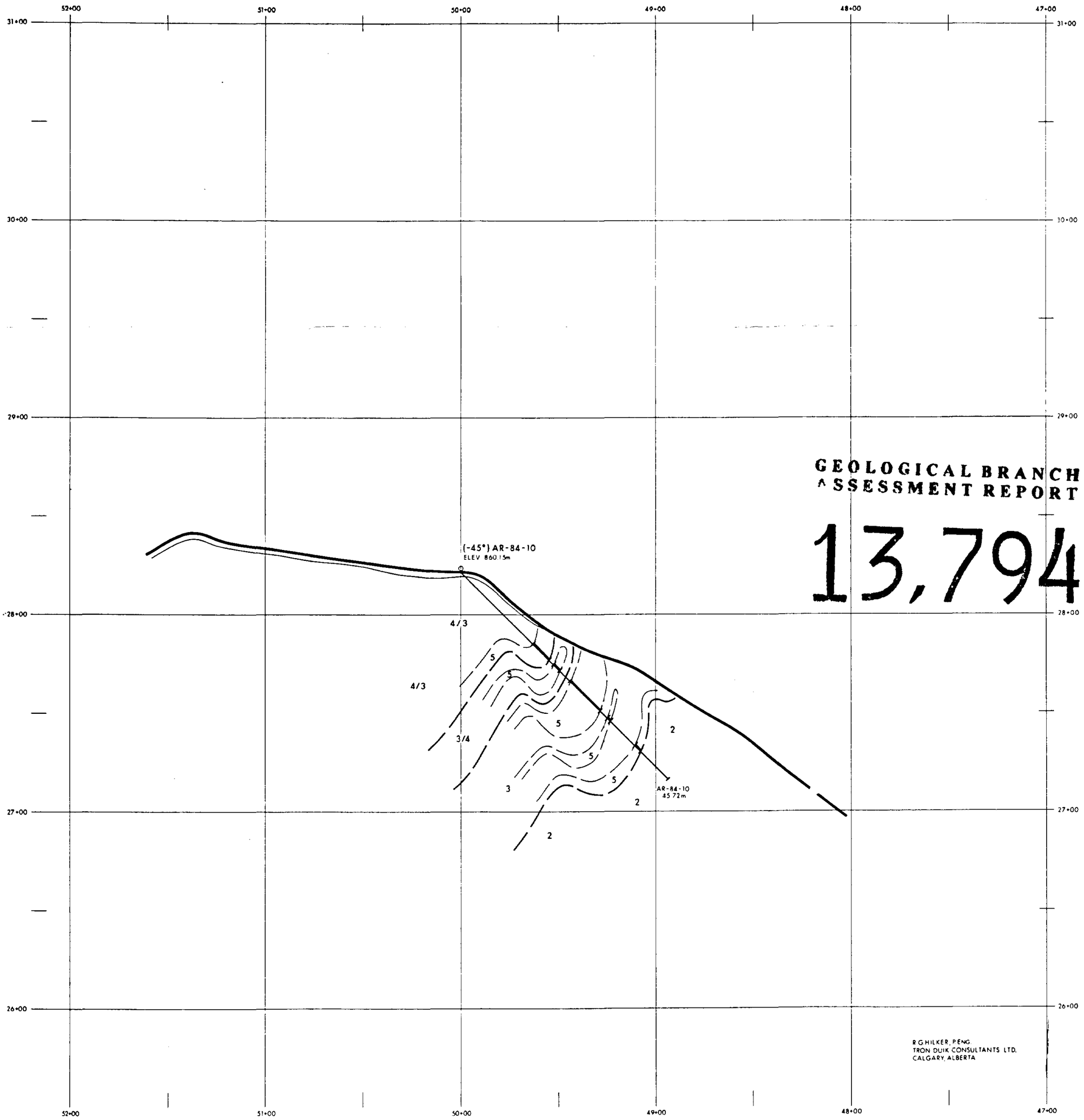
0 20 FEET 40 60
0 6 METRES 12 18

SECTION No.2

ANDAUREX RESOURCES INC.

SCOTIA PROPERTY
N.T.S. SHEET 103-1-4E
DIAMOND DRILL HOLE
AR-84-2
DRILL HOLE AZIMUTH 50° SECTION AZIMUTH 320°

Scale: 1cm.=5m.	Dwg.
Date: Dec. 1984	- R.G.Hilker



GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,794

GEOLOGICAL LEGEND

MESOZOIC or PALAEOZOIC

CORDILLERA - COAST CRYSTALLINE COMPLEX – Ecstall Belt

7. Pegmatite Dikes, potassium feld, quartz and in parts granitic.
6. Pyritic Felsic Tuff - minr sphalerite and galena, bornite qtz, feld, biotite in parts.
5. Massive Sulphides - sphalerite with minr qtz - feld gangue in parts semi-mass sphalerite in felsic gneiss or tuff.
4. Felsic Gneiss/Tuff - qtz, feld, bio or sericite, in parts pyrite, pyrrhotite or bornite, qtz - sericite schist.
3. Felsic/Mafic Gneiss - feld qtz, bio, hornblende and in parts garnets.
2. Mafic Gneiss - banded, biotite, hornblende, diopside, plag-feld.
1. Diorite - qtz diorite.

LEGEND

- Lithological or Sulphide Contact
- Drill hole collar (-45°) AR-84-10 ELEV. 860.15
- Assay Values 20.30% Zn 0.60 oz/T

HOLE NO	LENGTH m	WIDTH m	Au-oz/T	Ag-oz/T	Pb%	Zn%
AR-84-10	16.09-19.69	3.60	0.009	0.64	1.72	14.72
	20.76-23.16	2.41	0.002	0.52	1.12	1.59
	24.08-30.94	6.86	0.005	0.37	0.82	22.86
	32.49-33.13	0.64	0.008	0.74	1.07	17.04
	38.47-39.62	1.16	0.004	1.12	1.41	2.06

PROFESSIONAL ENGINEER R.G. HILKER ALBERTA

0 20 FEET 40 60
0 5 METRES 12 18

SECTION No. 3

ANDAUREX RESOURCES INC.

SCOTIA PROPERTY
N.T.S. SHEET 103-I-4E
DIAMOND DRILL HOLE
AR-84-10

DRILL HOLE AZIMUTH 90° SECTION AZIMUTH 360°

Scale 1cm = 5m	Dwg
Date Dec '1984	- R.G. Hilker

R.G. HILKER, P.ENG.
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CALGARY, ALBERTA

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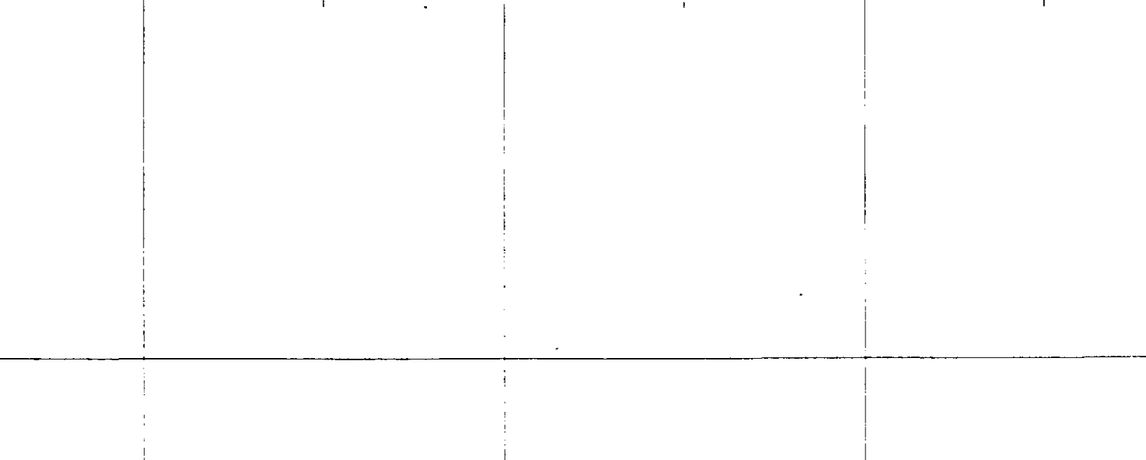

GEOLOGICAL LEGEND

MESOZOIC or PALAEOZOIC

CORDILLERA - COAST CRYSTALLINE COMPLEX — Ecstall Belt

7 Pegmatite Dikes, potassium feld; quartz and in parts granitic

6 Pyritic Felsic Tuff - mnr sphalerite and galena, bornite qtz feld biotite in parts

5 Massive Sulphides - sphalerite with mnr qtz-feld gangue in parts semi-mass sphalerite in felsic gneiss or tuff

4 Felsic Gneiss/Tuff - qtz feld bio or sericite in parts pyrite, pyrrhotite or bornite, qtz sericite schist

3 Felsic/Mafic Gneiss - feld qtz, bio, hornblende and in parts garnets

2 Mafic Gneiss - banded biotite, hornblende, diopside, plag feld

1 Diorite - qtz diorite.

LEGEND

Lithological or Sulphide Contact

Drill hole collar
(-45°) AR-84-10
ELEV 860.15m.

Assay Values
20.30% Zn
0.60 oz/T

HOLE NO.	LENGTH m	WIDTH m	Au-oz/T	Ag-oz/T	Pb%	Zn%
AR-84-11	16.70 - 18.20	1.49	Tr	0.32	0.82	4.64
	21.18 - 22.22	1.04	0.008	1.40	1.63	8.49
	24.17 - 31.61	8.44	0.007	0.47	1.46	18.27
	37.89 - 38.71	0.82	0.004	0.98	0.55	9.02

PROFESSIONAL ENGINEER R.G. HILKER P.H.

0 20 FEET 40 60
0 6 METRES 12 18

SECTION No. 4

ANDAUREX RESOURCES INC.

SCOTIA PROPERTY
NTS SHEET 103-I-4E
DIAMOND DRILL HOLE
AR-84-11
DRILL HOLE AZIMUTH 70° SECTION AZIMUTH 340°

Scale 1cm. = 5m.	Dwg.
Date: Dec. 1984	R.G. Hilker

R.G. HILKER, P.ENG.
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CALGARY, ALBERTA.

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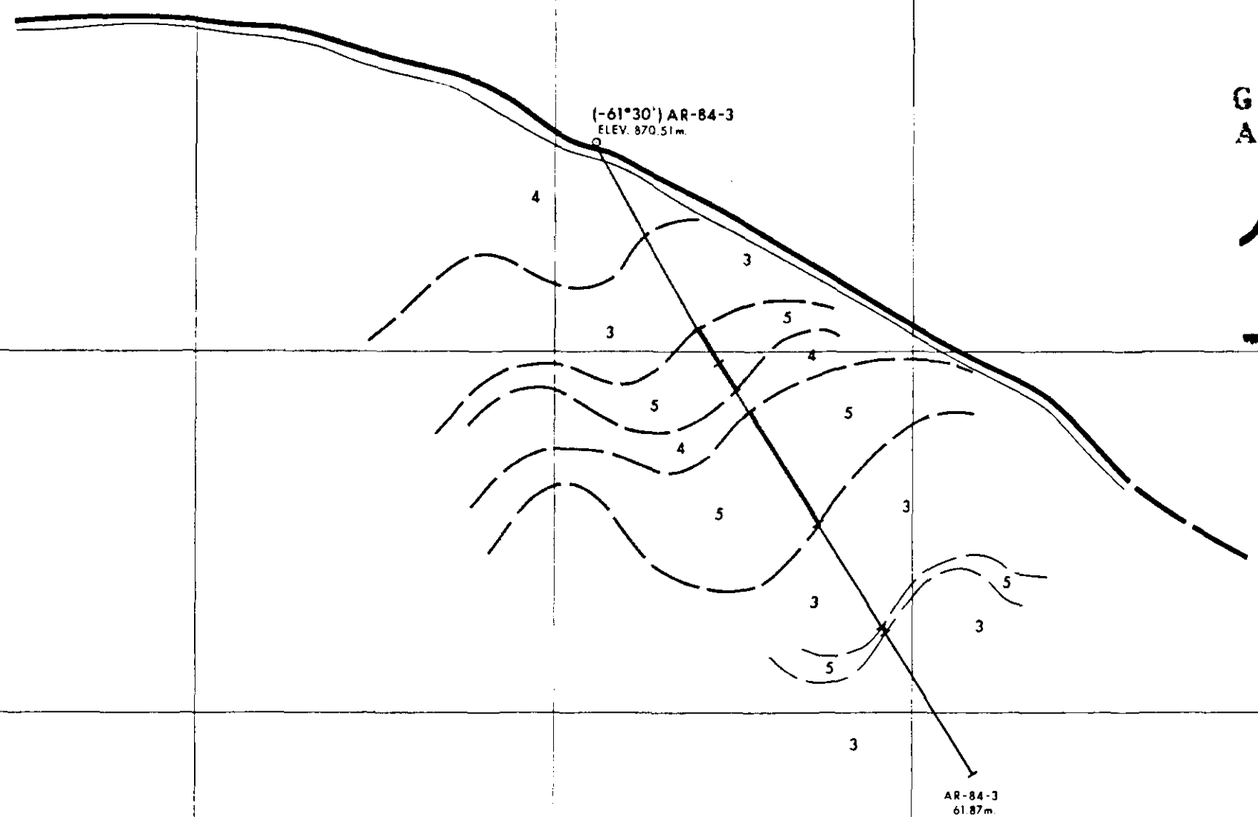

GEOLOGICAL LEGEND

MESOZOIC or PALAEOZOIC

CORDILLERA - COAST CRYSTALLINE COMPLEX — Ecstall Belt

7. Pegmatite Dikes, potassium feld, quartz and in parts granitic.
6. Pyritic Felsic Tuff - mnr sphalerite and galena, barnite qtz, feld biotite in parts.
5. Massive Sulphides - sphalerite with mnr qtz-feld gangue in parts semi-mass sphalerite in felsic gneiss or tuff.
4. Felsic Gneiss/Tuff, qtz, feld bio or sericite, in parts pyrite, pyrrhotite or barnite, qtz sericite schist.
3. Felsic/Mafic Gneiss - feld qtz, bio, hornblende and in parts garnets.
2. Mafic Gneiss - banded, biotite hornblende, diopside, plag-feld.
1. Diorite - qtz diorite.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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LEGEND

Lithological or Sulphide Contact

Drill hole collar
(-65°) AR-84-10
ELEV 860.15m.

Assay Values
20.30% Zn
0.60 oz/T

HOLE NO.	LENGTH m.	WIDTH m.	Au-oz/T	Ag-oz/T	Pb%	Zn%
AR-84-3	17.68 - 20.67	2.99	0.012	0.57	1.07	1.49
	20.67 - 23.71	3.08	0.011	1.07	2.38	12.38
	25.73 - 36.88	11.13	0.010	0.96	0.92	25.97
	47.18 - 49.41	1.77	0.009	0.65	0.83	6.47

PROFESSIONAL ENGINEER ALBERTA
R.G. HILKER

0 20 FEET 40 60
0 6 METRES 12 18

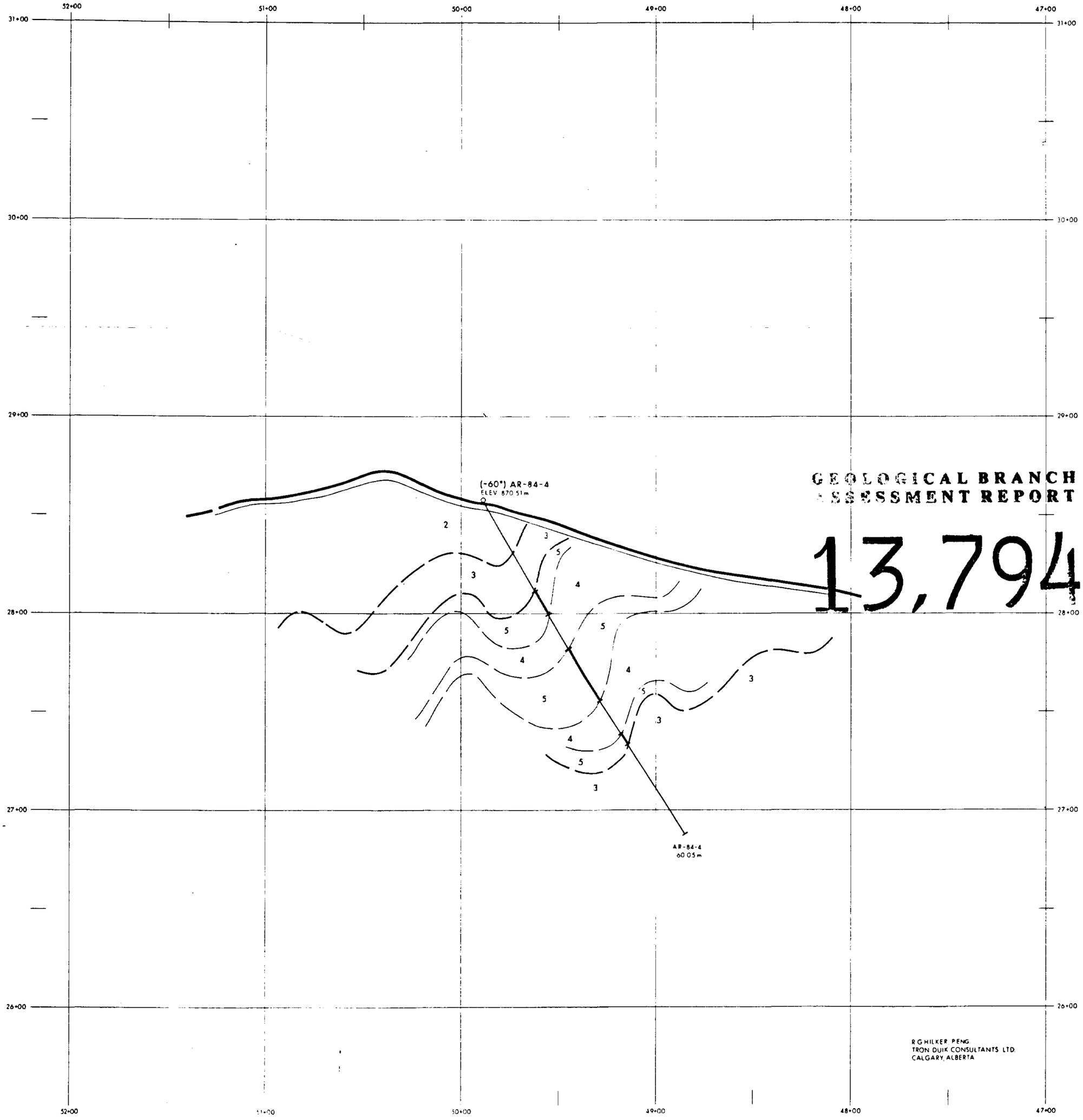
R.G.HILKER, P.ENG.
TRON DUIK CONSULTANTS LTD.
CALGARY, ALBERTA.

SECTION No. 5

ANDAUREX RESOURCES INC.

SCOTIA PROPERTY
N.T.S. SHEET 103-1-4E
DIAMOND DRILL HOLE
AR-84-3
DRILL HOLE AZIMUTH 105° SECTION AZIMUTH 15°

Scale 1cm = 3m	Dwg.
Date Dec 1984	R.G. Hilker



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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GEOLOGICAL LEGEND

MESOZOIC or PALAEOZOIC

CORDILLERA - COAST CRYSTALLINE COMPLEX — Ecstall Belt

7. Pegmatite Dikes, ~~potassium~~ feld. quartz and in parts granitic
6. Pyritic Felsic Tuff - mnr sphalerite and galena, bornite qtz feld. biotite in parts.
5. Massive Sulphides - sphalerite with mnr qtz feld gangue in parts semi-mass sphalerite in felsic gneiss or tuff
4. Felsic Gneiss/Tuff - qtz. feld, bio or sericite, in parts pyrite, pyrrhotite or bornite, qtz-sericite schist
3. Felsic/Mafic Gneiss - feld qtz, bio, hornblende and in parts garnets
2. Mafic Gneiss - banded, biotite, hornblende, diopside, plag-feld
1. Diorite - qtz diorite.

LEGEND

- Lithological or Sulphide Contact
- Drill hole collar (-45°) AR-84-10 ELEV 860.15m.
- Assay Values 20.30% Zn 0.60 oz/T

HOLE NO.	LENGTH m.	WIDTH m.	Au-oz/T	Ag-oz/T	Pb%	Zn%
AR-84-4	15.82 - 20.06	4.24	0.014	0.80	0.78	16.21
	26.24 - 35.57	9.02	0.017	1.21	2.70	20.55
	41.76 - 43.74	1.98	0.006	0.84	1.19	3.56

PROFESSIONAL ENGINEER R.G. HILKER ALBERTA

0 20 FEET 40 60
0 6 METRES 12 18

SECTION No. 6

ANDAUREX RESOURCES INC.

SCOTIA PROPERTY
N.T.S SHEET 103-I-4E
DIAMOND DRILL HOLE
AR-84-4
DRILL HOLE AZIMUTH 75° SECTION AZIMUTH 345°

Scale 1cm = 5m	Dwg
Date: Dec 1984	- R.G.Hilker

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(-45°) AR-84-5
(-65°) AR-84-6
ELEV 886.36m

AR-84-5
84.43m

AR-84-6
72.35m

GEOLOGICAL BRANCH ASSESSMENT REPORT

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GEOLOGICAL LEGEND

MESOZOIC or PALAEOZOIC
CORDILLERA - COAST CRYSTALLINE COMPLEX - Ecstall Belt

7 Pegmatite Dikes; potass um feld, quartz and in parts granitic

6 Pyritic Felsic Tuff - mnr sphalerite and galena, bornite qtz, feld, biotite in parts

5 Massive Sulphides - sphalerite with mnr qtz - feld gangue in parts semi-mass sphalerite in felsic gneiss or tuff

4 Felsic Gneiss/Tuff - qtz, feld bio or sericite in parts pyrite, pyrrhotite or bornite, qtz - sericite schist

3 Felsic/Mafic Gneiss - feld qtz bio, hornblende and in parts garnets

2 Mafic Gneiss - banded biotite hornblende, diopside, plag-feld

1 Diorite - qtz diorite.

LEGEND

Lithological or Sulphide Contact

Drill hole collar
(-45°) AR-84-10
ELEV 860.15m.

Assay Values
20.30% Zn
0.60 oz/T

HOLE NO.	LENGTH m.	WIDTH m.	Au-oz/T	Ag-oz/T	Pb%	Zn%
AR-84-5	43.80-45.63	1.83	0.006	1.06	1.07	8.11
	57.24-62.00	4.75	0.003	1.16	3.02	21.42
	63.64-64.47	0.82	0.006	1.62	5.82	20.27
	71.35-72.02	0.67	Tr	0.52	0.79	3.60
	73.55-74.16	0.61	0.002	0.60	0.43	1.98
AR-84-6	43.73-45.05	3.32	0.025	1.87	1.76	2.75
	49.87-53.61	3.75	0.027	1.28	0.94	1.81
	61.48-64.13	2.65	0.001	0.64	1.38	21.38

PROFESSIONAL ENGINEER R.G. HILKER ALBERTA

0 20 FEET 40 60
0 6 METRES 12 18

SECTION No. 7

ANDAUREX RESOURCES INC.

SCOTIA PROPERTY
NTS SHEET 103-1-4E
DIAMOND DRILL HOLE
AR-84-5,6
DRILL HOLE AZIMUTH 90° SECTION AZIMUTH 360°

Scale 1cm=5m	Dwg.
Date Dec 1984	R.G. Hilker

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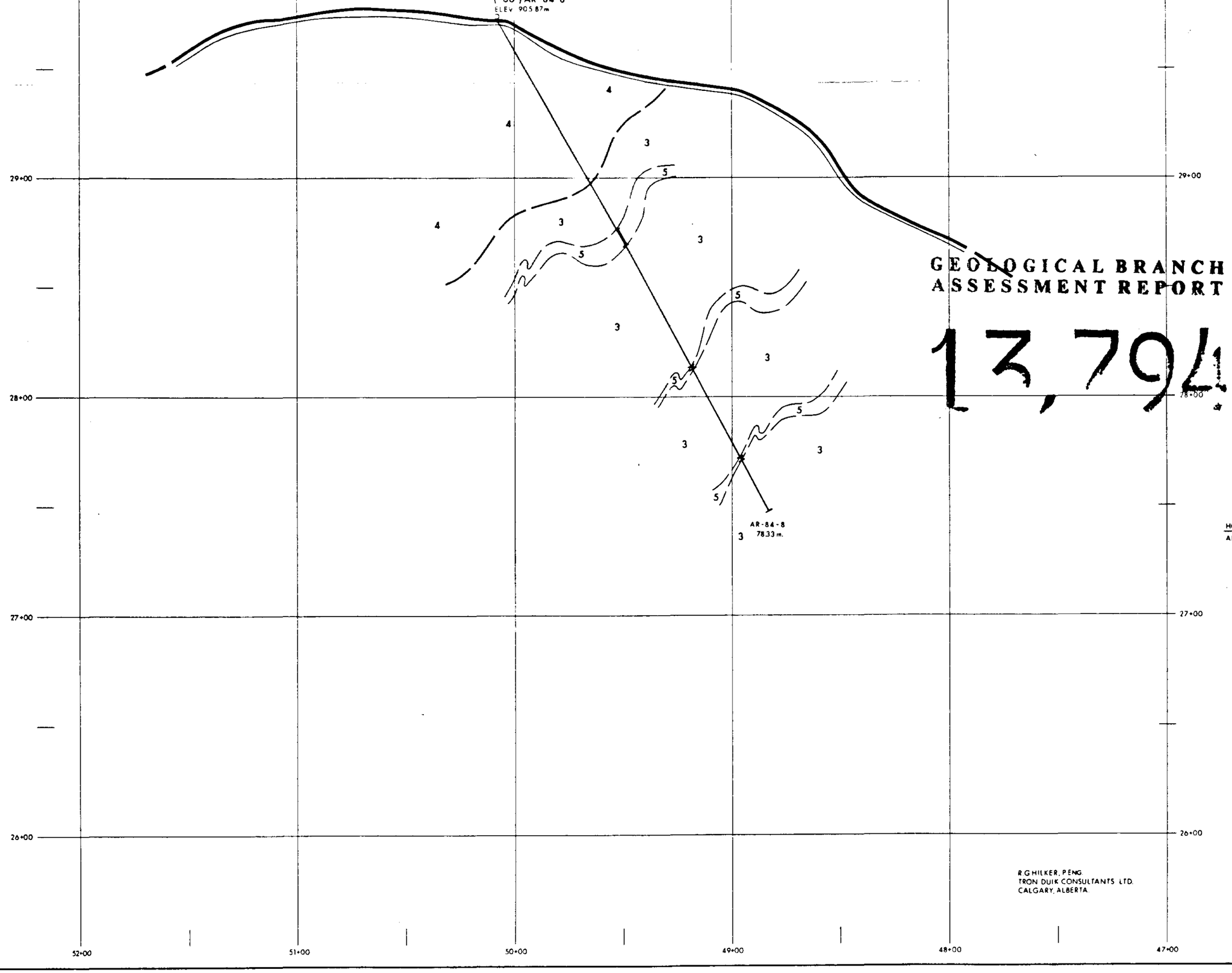
(-60°) AR-84-8
ELEv 905.87m

AR-84-8
78.33 m.



GEOLOGICAL LEGEND

MESOZOIC or PALAEOZOIC

CORDILLERA - COAST CRYSTALLINE COMPLEX — Ecstall Belt

7. Pegmatite Dikes, potassium feld, quartz and in parts granitic.
6. Pyritic Felsic Tuff - mnr sphalerite and galena, bornite qtz, feld, biotite in parts.
5. Massive Sulphides - sphalerite with mnr qtz-feld gangue in parts semi-mass sphalerite in felsic gneiss or tuff.
4. Felsic Gneiss/Tuff - qtz, feld, bio or sericite, in parts pyrite, pyrrhotite or bornite, qtz-sericite schist.
3. Felsic/Mafic Gneiss - feld, qtz, bio, hornblende and in parts garnets.
2. Mafic Gneiss - banded, biotite, hornblende, diopside, plag-feld.
1. Diorite - qtz diorite.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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LEGEND

Lithological or Sulphide Contact.

Drill hole collar
(-45°) AR-84-10
ELEV. 860.15m.

Assay Values
20.30% Zn
0.60 oz/T

HOLE NO.	LENGTH m.	WIDTH m.	Au-oz/T	Ag-oz/T	Pb%	Zn%
AR-84-8	33.71 - 36.12	2.41	0.025	0.49	0.80	18.84
	55.32 - 55.66	0.34	0.022	0.28	0.02	32.19
	69.59 - 70.13	0.55	0.018	3.62	8.82	9.69

PROFESSIONAL ENGINEER R.G. HILKER

0 20 FEET 40 60
0 6 METRES 12 18

SECTION No 8

ANDAUREX RESOURCES INC.

SCOTIA PROPERTY
N.T.S. SHEET 103-I-4E
DIAMOND DRILL HOLE
AR-84-8
DRILL HOLE AZIMUTH 90° SECTION AZIMUTH 360°

Scale- 1cm=5m.	Dwg.
Date- Dec 1984	- R.G.Hilker

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CALGARY, ALBERTA.

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31+00 30+00 29+00 28+00 27+00 26+00

(-45°) AR-84-9
ELEV. 905.87m

AR-84-9
78.33m.

GEOLOGICAL LEGEND

MESOZOIC or PALAEOZOIC

CORDILLERA - COAST CRYSTALLINE COMPLEX – Ecstall Belt

- 7 — Pegmatite Dikes, potassium feld, quartz and in parts granitic
- 6 — Pyritic Felsic Tuff - mar sphalerite and galena, bornite qtz, feld, biotite in parts
- 5 — Massive Sulphides - sphalerite with mar qtz-feld gangue in parts semi-mass sphalerite in felsic gneiss or tuff
- 4 — Felsic Gneiss/Tuff - qtz, feld, bio or sericite, in parts pyrite, pyrrhotite or bornite, qtz-sericite schist
- 3 — Felsic/Matic Gneiss - feld, qtz, bio, hornblende and in parts garnets
- 2 — Matic Gneiss - banded, biotite, hornblende, diopside, plag-feld.
- 1 — Diorite - qtz diorite.

LEGEND

- Lithological or Sulphide Contact
- Drill hole collar (-45°) AR-84-10 ELEV. 860.15m.
- Assay Values 20.30% Zn 0.60 oz/T

HOLE NO.	LENGTH m.	WIDTH m.	Au-oz/T	Ag-oz/T	Pb%	Zn%
AR-84-9	65.75-66.08	0.34	0.006	1.18	2.09	5.63
	69.65-70.01	0.37	0.004	0.76	2.02	11.55

PROFESSIONAL ENGINEER R.G. HILKER ALBERTA

0 10 FEET 40 60
0 4 METRES 12 16

SECTION No. 9

ANDAUREX RESOURCES INC.

SCOTIA PROPERTY
N.T.S. SHEET 103-1-4E
DIAMOND DRILL HOLE
AR-84-9
DRILL HOLE AZIMUTH 70° SECTION AZIMUTH 340°

Scale 1cm = 5m.	Dwg
Date Dec 1984	- R.G. Hilker

R.G. HILKER, P.ENG.
TRON DUIK CONSULTANTS LTD
CALGARY, ALBERTA

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(-60°) AR-84-7
ELEV 918.06m.

AR-84-7
92.96m

GEOLOGICAL LEGEND

MESOZOIC or PALAEOZOIC
CORDILLERA : COAST CRYSTALLINE COMPLEX ~~- Ecstall Belt~~

7 Pegmatite Dikes, potassium feld, quartz and in parts granitic.

6 Pyritic Felsic Tuff - mnr sphalerite and galena, bornite qtz, feld, biotite in parts

5 Massive Sulphides - sphalerite with mnr qtz-feld gangue in parts semi-mass sphalerite in felsic gneiss or tuff

4 Felsic Gneiss/Tuff - qtz, feld, bio or sericite, in parts pyrite, pyrrhotite or bornite, qtz-sericite schist

3 Felsic/Mafic Gneiss - feld qtz, bio, hornblende and in parts garnets.

2 Mafic Gneiss - banded, biotite, hornblende, diopside, plag-feld.

1 Diorite - qtz diorite.

LEGEND

Lithological or Sulphide Contact

Drill hole collar
(-45°) AR-84-10
ELEV 860.15m.

Assay Values
20.30% Zn
0.60 oz/T

HOLE NO.	LENGTH m.	WIDTH m.	Au-oz/T	Ag-oz/T	Pb%	Zn%
AR-84-7	62.61-67.48	4.88	0.005	0.39	0.86	22.23
	73.58-76.41	2.83	0.003	0.76	2.42	12.63
	79.43-84.73	5.30	0.003	0.94	2.69	9.97

PROFESSIONAL ENGINEER R.G. HILKER

0 20 FEET 40 60
0 6 METRES 12 18

SECTION No 10

ANDAUREX RESOURCES INC.

SCOTIA PROPERTY
N.T.S. SHEET 103-I-4E
DIAMOND DRILL HOLE
AR-84-7

DRILL HOLE AZIMUTH 90° SECTION AZIMUTH 360°

Scale: 1cm = 5m.	Dwg.
Date: Dec 1984	R.G. Hilker

R.G. HILKER P.ENG
TRON DUIK CONSULTANTS LTD.
CALGARY, ALBERTA