

ARIS SUMMARY SHEET

District Geologist, Kamloops

Off Confidential: 89.05.09

ASSESSMENT REPORT 17643

MINING DIVISION: Kamloops

PROPERTY: Scotch
LOCATION: LAT 50 57 00 LONG 119 30 00
UTM 11 5647022 324393
NTS 082L13E 082L14W

CLAIM(S): Scotch, Scotch 2

OPERATOR(S): Antioch Res.

AUTHOR(S): Kyba, B.W.

REPORT YEAR: 1988, 87 Pages

COMMODITIES

SEARCHED FOR: Copper, Lead, Zinc, Silver, Gold

GEOLOGICAL

SUMMARY:

The area is underlain by an upper Paleozoic thick interbanded pile of chlorite-sericite schist and quartz chlorite sericite schist that conformably overlies a thin interbedded sequence of graphitic-phylitic argillite and argillaceous marble. Weakly developed massive sulphide type mineralization occurs in the metavolcanics.

WORK

DONE:

Drilling

DIAD 1220.4 m 6 hole(s);NQ

Map(s) - 1; Scale(s) - 1:5000

SAMP 480 sample(s) ;ME

RELATED

REPORTS:

06237,06419,07691,12216,14998,16176

MINFILE:

082LNW

LOG NO: 0808	RD.
ACTION:	
FILE NO:	

DIAMOND DRILL ASSESSMENT REPORT
ON THE SCOTCH PROPERTY
SCOTCH AND SCOTCH 2 MINERAL CLAIMS
Scotch Creek Area
KAMLOOPS MINING DIVISION, B.C.

NTS: 82L/13E, 82L/14W
Latitude: 50°57' North
Longitude: 119°30' West
Owner/Operator: Brican Resources Ltd.
Author: B.W. Kyba
Date: July 29, 1988

FILMED

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,643

SUB RECORDER
AUG - 5 1988
M.R. _____ \$ _____
VERNON, B.C.

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INTRODUCTION

During January and February 1988, Brican Resources Ltd. carried out a diamond drill programme on the SCOTCH property in the Adams Plateau area of the Kamloops Mining Division B.C.

The programme was designed to test co-incident MAX-MIN, VLF, EM, and geochemical anomalies. A total of 1220.4 metres of drilling was completed in 6 holes.

The writer supervised all aspects of the drill programme and logged all core.

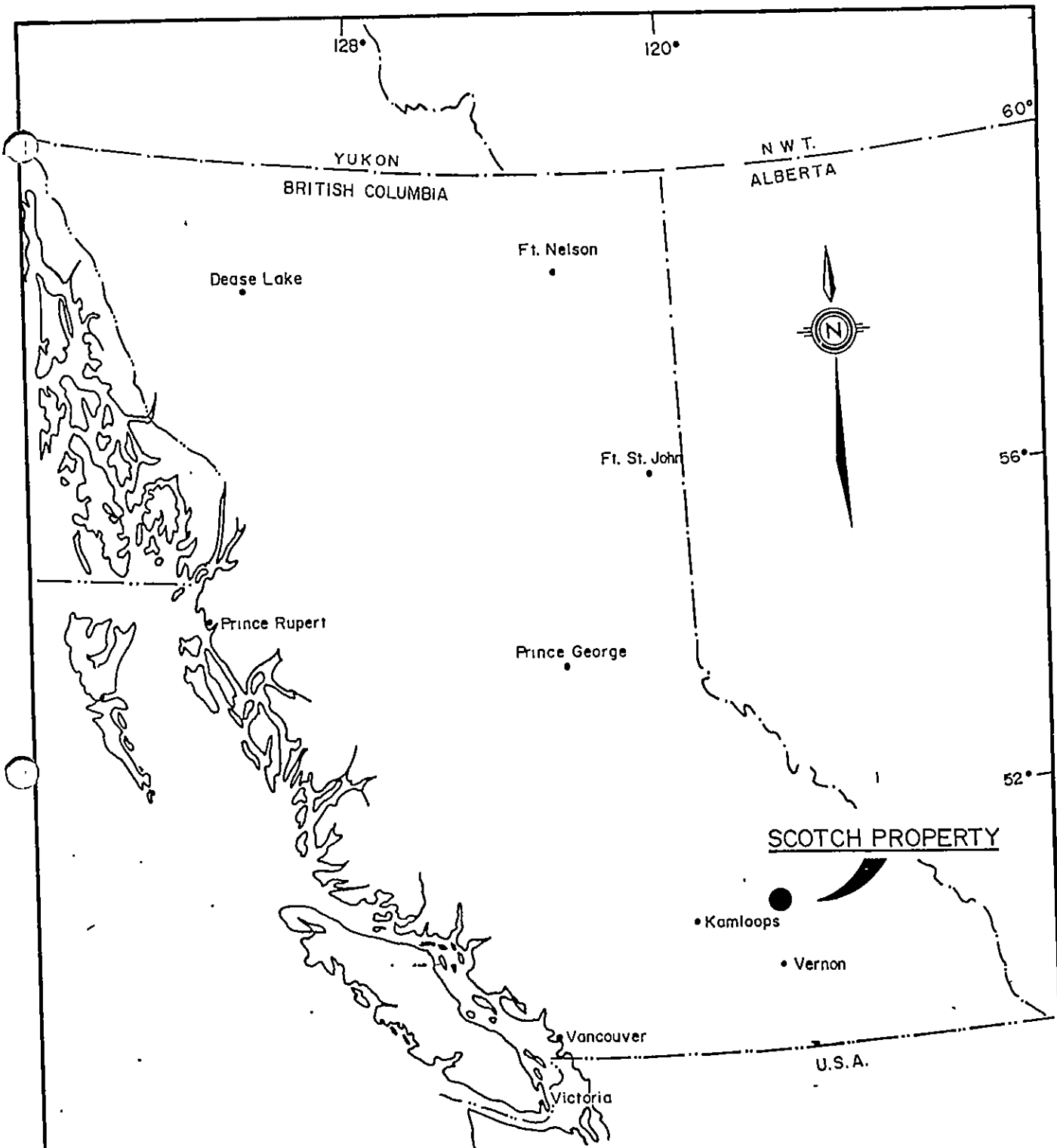
LOCATION, ACCESS, AND TOPOGRAPHY

The SCOTCH property is located on the southerly sloping flank of the Adams Plateau west of Scotch Creek and straddling Corning (Lee) Creek, about 4 km (2.5 mi) north of Shuswap Lake (Figures 1 and 2). The co-ordinates of the Legal Corner Post of the SCOTCH and SCOTCH 2 claims are $50^{\circ}57.0'$ North and $119^{\circ}30.7$ West. The National Topographic System reference for the claims is 82L/13E and 82L/14W. The elevation of the Legal Corner Post is 1160 m (3800 ft) a.s.l.

Kamloops is 68 km (42 mi) to the southwest. Access to the property from Kamloops is via the Trans-Canada Highway east to Squilax bridge, thence easterly on the Squilax-Celista highway for 10km (6 mi) to the mouth of Corning (Lee) Creek, thence northerly on the old Lee Creek logging road for 10 km (6 mi) to the Legal Corner Post. Several new and old logging roads and a road along the B.C. Hydro powerline provide good access to most parts of the property for standard two-wheel drive vehicles.

The topography on the property is generally a moderate southward slope from Adams Plateau to Shuswap Lake. Corning (Lee) Creek has incised steep northerly-trending valleys into this slope. Elevations vary from 1160 m (3800 ft) a.s.l. at the Legal Corner Post to 1340m (4500ft) a.s.l. at the north boundary of the property.

Parts of the property have been logged in recent years, parts have old burns with thick second growth vegetation and deadfall, and parts have original tall timber. The area of the property is generally free of snow from mid-May to mid-November.



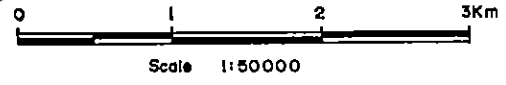
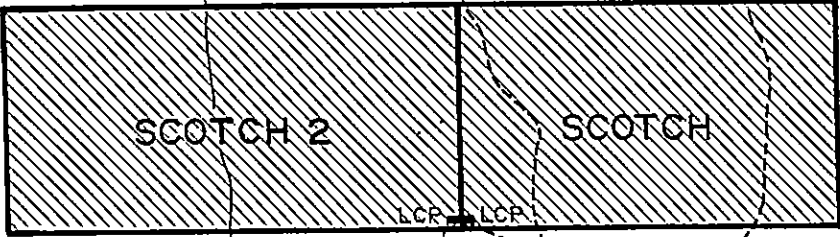
ANTIOCH RESOURCES INC.	
BRICAN RESOURCES LTD.	
SCOTCH PROPERTY	
LOCATION MAP	
Date:	JULY 1987
Project:	
Figure:	1
Mining Division:	Kamloops

PROPERTY

The SCOTCH property consists of the SCOTCH and the SCOTCH 2 claims in the Kamloops Mining Division.

<u>Claim</u>	<u>No. Units</u>	<u>Record No.</u>	<u>Owner</u>	<u>Expiry Date</u>
SCOTCH	15	371	Brican Resources Ltd.	May 7, 1991
SCOTCH 2	18	7097	Brican Resources Ltd.	June 8, 1988

The SCOTCH claim was staked by K.L. Daughtry in April 1976, and sold to Brican Resources Ltd. shortly thereafter. Brican acquired the SCOTCH 2 by staking in 1987.



Corning Creek

Scotch Creek

Shuswap Lake

ANTIOCH RESOURCES INC.
 BRICAN RESOURCES LTD.
 SCOTCH PROPERTY
 CLAIM MAP

Date:	JULY 1987	Scale:	1 : 50000
Project:		N.T.S.	82L 13E/14W
Figure:	2	Mining Division:	KAMLOOPS

①

HISTORY

The first record of exploration activity in the area of the SCOTCH property is a reference to the IRON POT showing on Acid (Ruby) Creek, a tributary of Scotch Creek, about 1000 m northeast of the SCOTCH claim. In the 1930 Annual Report of the B.C. Minister of Mines it is reported that two short adits were driven in a narrow zone of massive pyrrhotite with pyrite, and minor chalcopyrite. Apparently the objective was precious metal mineralization but no values were obtained on sampling.

Scotch Creek itself has had some placer gold production, about 2000 ounces being reported to date.

In the 1960's claims were staked by major companies to cover the copper showings on Nikwikwaia Creek, 7 km northwest of the SCOTCH but apparently no major exploration work was carried out.

In 1970, during the course of a regional exploration project, strong geochemical anomalies in copper and zinc were detected in stream sediments on Corning and Nikwikwaia Creeks. Follow-up prospecting resulted in the discovery of massive and disseminated stratabound pyrrhotite-pyrite-chalcopyrite-sphalerite mineralization on Nikwikwaia, Corning and Acid Creeks. The most attractive mineralization found at this stage was a 1-ton boulder of massive sulphide mineralization discovered on the east fork on Corning Creek. A grab sample of this boulder contained over 10% copper. Two hundred claims were staked to cover the potentially favourable geological setting.

In 1971, a reconnaissance scale grid was flagged out over the southern part of the claim block and soil sampling and magnetometer surveys were conducted over 41 line miles (66 km). This work indicated the presence of a 10,000 foot magnetically anomalous zone which was co-incident with anomalous copper and zinc values in soils. The magnetic anomaly appeared to lie parallel with the stratigraphy and was correlative with a sulphide-bearing sequence of phyllites. Two holes were diamond drilled to test this zone and intersected sulphide bearing phyllite with varying amounts of pyrrhotite, pyrite and chalcopyrite.

K.L. Daughtry staked the SCOTCH claim to cover the magnetic anomaly in 1976 and sold the property to Brican Resources Ltd. Craigmont Mines Ltd. optioned the claim shortly afterward and subsequently staked an additional six claims, totalling 104 units, covering much of the old claim block.

Craigmont then conducted a regional airborne DIGHEM survey which included the ground around the SCOTCH claim. Many conductors were indicated and a strong magnetic anomaly was delineated co-incident with one of these in the area of the previously known magnetic anomaly. A ground follow-up programme was initiated in which a total of 48 line-kilometers of grid was installed. Geochemical soil, magnetometer and VLF EM-16 surveys were carried out over the entire grid. The large anomaly on the SCOTCH claim was better defined as a co-incident geochemical, magnetic and electromagnetic anomalous zone. Several other attractive anomalies were also discovered.

In 1977 Craigmont drilled 4 holes to test geophysical targets on the main anomalous zone. Three of these holes were drilled in the same area of the two holes of the 1971 programme. The first two holes intersected the same sulphide zone as the previous work. The third hole intersected better copper mineralization than had previously been found in the heavy to massive sulphide zones. The fourth hole intersected the sulphide zone near the west end of the anomaly. No further work was done and the claim was returned to Brican effective September 30, 1978.

Esso Resources Canada Ltd. optioned the SCOTCH property from Brican in March 1979 and conducted further ground magnetometer and electromagnetic Max Min surveys. This work confirmed the presence of strong magnetic anomalies with a significant apparent displacement from the locations defined by Craigmont. One short hole was drilled by Esso in the western part of the SCOTCH claim to test one of the conductors. This hole intersected both sulphide mineralization and graphitic schist.

In 1983, Esso carried out geological mapping and lithogeochemical studies. The option was subsequently terminated and the claims were returned to Brican in 1984.

In 1985, Brican conducted a programme of backhoe trenching in an attempt to expose the source of the main geophysical anomaly. This trenching revealed an extensive zone of sulphide mineralization but no source of the magnetic anomaly and no strong conductor was evident.

① The previous surveys were run with line spacings of at least 20 m. This lack of detail, coupled with the discrepancies in the location of conductors between previous surveys, prompted Brican to undertake a more detailed magnetic survey in 1986. This work resulted in a more precise delineation of the geophysical targets.

Consequently, detailed magnetic, electromagnetic and gravimetric surveys were carried out in the autumn of 1986.

In 1987, Brican acquired the SCOTCH 2 by staking, and carried out additional geophysical surveys that further delineated the anomalous targets in greater detail and tested conductors for gravity response.

② Early in 1988, two targets were tested by drilling. On the SCOTCH zone, strong geophysical conductors occur in a favourable setting similar to the Samotosum deposit (Rea Gold) and the Homestake Mine. On the SCOTCH 2 zone, an anomalous concentration of Pb and Zn in soils occurs along a favourable geological contact.

DIAMOND DRILL PROGRAMME

Between January 3 and February 25, 1988, a programme of exploration diamond drilling was conducted on the SCOTCH property. Six holes, totalling 1220.4 metres, were successfully completed. The location of the holes is shown on the accompanying plan. (Figure 3) and the pertinent drill information is summarized below:

Drill Contractor: Tex drilling Ltd.
Foreman: Tex Tessmer
Cross-shift Driller: Jim Bartlett
Machine: Longyear 38
Core diameter: NQ

<u>Hole No</u>	<u>Location</u>	<u>Direction</u>	<u>Dip</u>	<u>Length</u>	<u>Collar Elevation</u>
294-1	1E/1S	160°	-46°	117.6m	1255m
294-2	4+40E/1S	160°	-48°	136.9m	1220m
294-3	4E/1N	160°	-50°	157.3m	1255m
294-4	8E/0+80S	160°	-56°	107.3m	1115m
294-5	8+00W/5+00S	175°	-55°	395.9m	1170m
294-6	11+00W/5+50S	180°	-70°	305.4m	1160m

All core is stored at the Brican warehouse in Vernon, BC.

Holes 294-1 to 294-4 were collared on the SCOTCH claim and holes 294-5 and 294-6 were collared on the SCOTCH 2 claim.

Complete drill logs for each hole follow. All holes were logged by the writer. Drill supervision, on behalf of Brican Resources Ltd., was performed by Rick Wynne, and core splitting was carried out by John Beggs.

Assaying and geochemical analysis of core samples were performed by Bondar Clegg, Vancouver, BC.

SUMMARY AND CONCLUSIONS

Six holes, totalling 1220.4m, were drilled to test co-incident geophysical and soil geochemical anomalies for a gold rich massive sulphide type deposit in a favourable regional geological setting.

Drill hole 294-1 was drilled to a total depth of 117.6m and encountered black graphitic argillite and argillaceous siltstone that was cut by numerous andesitic feldspar porphyry dykes. No significant mineralization was discovered.

Drill hole 294-2 was drilled to a total depth of 136.9m. The hole collared in dark to light green sericite chlorite phyllite that contained minor disseminated bands of pyrrhotite, sphalerite, galena and chalcopyrite. The phyllite was interbanded over several metres with black pyritic graphitic argillite and gradually graded to interbanded argillaceous marble and calcareous argillite. The metasediments contained no anomalous concentrations of metals.

Drill hole 294-3 was drilled to a total depth of 157.3m. The hole collared in a series of thick interbedded? dark green chlorite sericite schist and pale green quartz sericite schist that contained minor interbands and stringers of pyrite, pyrrhotite, chalcopyrite, sphalerite and galena. The metavolcanics? were interbanded with graphitic argillite and calcareous argillaceous siltstone towards the bottom of the hole. Fault zones in the metasediments contained minor amounts of pyrite pyrrhotite, chalcopyrite and sphalerite.

Drill hole 294-4 was drilled to a total depth of 107.3m. The hole collared and bottomed in a thinly interbanded sequence of argillaceous marble and graphitic argillite that contained no anomalous concentrations of metals.

Drill hole 294-5 was drilled to a total depth of 395.9m. The hole collared in a thick interbanded sequence of light grey-green quartz chlorite sericite schist and dark green chlorite sericite schist that contained minor, thin interbands of pyrite quartz and sphalerite. The metavolcanic sequence showed a conformable interbanded contact over several meters to interbanded argillaceous marble and graphitic phyllitic argillite. The metasediments contained an elevated lead background of 35ppm. No anomalous concentrations of metals were discovered.

Drill hole 294-6 was drilled to a total depth of 305.4m. The hole collared in a thick pile of dark green chlorite schist with minor interbands of light green-grey quartz chlorite sericite schist. The metavolcanics contained minor interbands and stringers of pyrrhotite, pyrite, chalcopyrite, sphalerite and galena. One 1.3m sample of a mineralized quartz-chalcopyrite vein assayed 2.42% copper and contained 17.1ppm silver and 170ppb gold. The metavolcanics were interbanded with graphitic phyllite interbands over several meters in a conformable contact to thin interbanded graphitic phyllite and calcareous argillite.

A large fault zone in the metaseds (247.5 to 257.8m(103m)) contained anomalous gold values of up to 170 ppb.

The six drill holes did not fully test the entire strike length of the coincident geophysical and geochemical anomalies. They did encounter weakly developed massive sulphide type mineralization in the metavolcanic sequence that conformably overlies a thinly interbedded sequence of graphitic metasediments. The only anomalous gold values were contained in a quartz chalcopyrite vein and in a large fault zone seen in hole 294-6.

The magnetic anomaly may have been caused by disseminated and stringers of pyrrhotite in the metavolcanics (up to 2% over large intervals).

The EM anomaly appears to have been caused by the large amount of graphite in the metasediments.

The large lead soil anomaly (threshold of 40ppm) appears to have been caused by the elevated background in the metasediments (35ppm).

RECOMMENDATIONS

A large portion of the strike length of the coincident geophysical and geochemical anomalies remains untested. The six drill holes of this program confirmed the presence of a favourable geological setting for a massive sulphide type deposit within this large anomalous zone. Further testing of this zone is recommended.

STATEMENT OF COSTS

1. Drilling and Road Building	
Tex Drilling Ltd. (per contact)	\$116000.00
G. Curries (per contact)	12000.00
2. Professional Services	
Cedar Hill Gold Corp. 22 days	8000.00
3. Personnel	
Core Splitting Feb 1 - Feb 22, 1988	
22 days - John Beggs	6000.00
Data Compilation, Secretarial	2000.00
4. Expenses	
Analysis (per contract)	11000.00
Transport	<u>5000.00</u>
Total	\$160000.00

REFERENCES

- Daughtry, K.L. 1970 Report of 1970 Field Operations for Shuswap Project. Private report to Shuswap Syndicate and Derry, Michener and Booth Ltd.
- 1971 Report of 1971 Field Operations for Shuswap Project. Private report to Shuswap Syndicate and Derry, Michener and Booth Ltd.
- 1972 Report of 1972 Field Operations for Shuswap Project. Private report to Shuswap Syndicate and Derry, Michener and Booth Ltd.
- 1978 Report on the Scotch Property. Private report to Brican Resources Ltd.
- 1986 Report on the Scotch Property. Private report to Brican Resources Ltd.
- 1987 Report on the Scotch Property. Private report to Brican Resources Ltd.
- Fraser, D.C. 1976 Dighem Survey of Shuswap Lake Area, B.C. Private Report.
- Jones, A.G. 1959 Vernon Map Area, British Columbia; G.S.C. Memoir 296.
- Marr, J.M. 1983 Scotch group, Shuswap Lake, B.C. Private report to Esso Minerals Canada.
- 1984 Geology and Geochemistry Report on the Scotch claim. Assessment Report No. 12216.
- Okulitch, A.V. 1974 Stratigraphy and Structure of the Mount Ida Group, Vernon, Seymour Arm, Bonaparte Lake and Kettle River Map areas, British Columbia G.S.C. Paper 74-1, Part A, pp. 25-30.
- 1979 Thompson-Shuswap-Okanagan G.S.C. OF 637.

Stewart, A.	1979	Combined EM and Magnetometer Survey Scotch Group of Mineral Claims. Assessment Report No. 7691.
--	1979	Diamond Drilling Report on the Scotch Claim. Assessment Report No. 7691.
Vollo, N.B.	1977	Geochemical and Diamond Drilling Report on the 82L/13 Scotch Group. Assessment Report No. 6419.

STATEMENT OF QUALIFICATIONS

I, B.W. KYBA of R.R.1, Falkland, B.C., DO HEREBY CERTIFY THAT:

1. I am a Consulting Geologist in the mineral exploration business and am employed by Cedar Hill Gold Corporation, Falkland, B.C.
2. I have been practising my profession in British Columbia, Alberta, Saskatchewan, the Yukon Territory, Colorado and Nevada for 15 years.
3. I am a graduate of the University of Alberta with a Bachelor of Science degree in geology.
4. I am a Fellow of the Geological Association of Canada, a Professional Geologist of Alberta, and a member of the Canadian Institute of Mining and Metallurgy.
5. This report is based upon knowledge of the SCOTCH property gained from exploration work on the property.


B.W. Kyba

Vernon, B.C.
July 29, 1988

APPENDIX A

Interval From To	Description	Samp. ID	Sample Int. From To	Length (Metres)	Rec.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
Box 9 54.0 - 59.7	blebs of pyrrhotite,															
Box 10 59.7 - 65.2	-calcite/quartz bands common at: 27.9m - 28.6m. 28.9m - 29.0m 31.6m - 32.5m 32.8m - 33.6m															
	-30.2m to 30.4m: feldspar porphyry dyke as above at 75 deg. core axis,															
	-euhedral pyrite in graphitic argillite with up to 2mm sides on cubes,															
	-from 33.6m to 41.2m: argillite becomes very calcareous and grades to fine grained argillaceous silty marble in part, banding at 70 - 80 deg. core axis,	58185	38.1 41.1	3.0	100	26	15	47	1	-0.2	7	-2	-5	-5	2.06	-5
	-then grades back to very thin laminated graphitic argillite and calcareous argillite,															
	-from 42.6m to 43.2m: very highly contorted banding - "crinkled" folded on cm scale at 90 deg. core axis, with blebs of pyrrhotite and pyrite in core of folds,	58185	41.1 44.1	3.0	100	38	14	57	3	-0.2	13	-2	-5	-5	3.56	-5
	-stringers of fine grained pyrite to 1% along graphitic argillite banding (diagenetic pyrite?),															
	-calcite/quartz bands at: 44.0m - 44.4m 44.7m - 45.1m 45.0m - 45.6m	58187	44.1 47.1	3.0	100	36	21	42	3	-0.2	14	-2	-5	-5	3.67	-5

Interval		D e s c r i p t i o n											Samp. ID		Sample Int.		Length		Zn		Mo		Ag		Co		Bi		As		Sb		Fe		Au	
From	To														From	To	(Metres)	% Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au	%	ppb					
Box 17 100.0 - 105.9	Box 18 105.9 - 111.4	coated slickensides at 10 deg. core axis cutting dyke,											58199	79.1	82.1	3.0	100	21	6	43	2	-0.2	9	-2	-5	-5	2.65	-5								
		-dyke is contact to																																		
79.1	106.7	ARGILLACEOUS MARBLE and CALCAREOUS ARGILLITE: light and dark grey banded, fine to medium grained, with minor black graphitic argillite, -core is much more competent here, subhedral pyrite in argillite bands with up to 2mm sides and up to 2%,											58200	82.1	85.1	3.0	100	26	14	42	1	-0.2	7	-2	-5	-5	2.09	5								
		-80.9m to 81.6m: minor dykes as above,																																		
		-81.9m to 82.0m: minor dykes as above,																																		
		-84.3m to 85.2m: white calcite/quartz bands,											59651	85.1	88.1	3.0	100	25	11	29	1	-0.2	5	-2	-5	-5	1.79	-5								
		-86.0m to 87.2m: white calcite/quartz bands,											59652	88.1	91.1	3.0	100	13	15	23	-1	-0.2	1	-2	6	-5	1.10	5								
		-87.6m to 88.1m: white calcite/quartz bands,											59653	91.1	94.1	3.0	100	31	72	159	1	-0.2	6	-2	5	-5	2.13	5								
		-97.4m to 97.9m: massive bedded argillaceous marble, shows weakly developed "graded bedding" with tops right side up here, dark grey argillaceous marble grades to light grey argillaceous marble with sharp upper contact to interbanded marble, argillaceous marble and calcareous argillite, banding on cm scale, more argillaceous bands with 1% stringers and blebs of pyrite,											59654	94.1	97.1	3.0	100	20	14	43	1	-0.2	5	-2	-5	-5	2.04	-5								
													59655	97.1	100.1	3.0	100	22	11	30	-1	-0.2	3	-2	-5	-5	1.51	5								
													59656	100.1	103.1	3.0	100	45	79	137	4	-0.2	14	-2	6	-5	3.88	-5								
													59657	103.1	106.7	3.6	100	36	33	61	2	-0.2	10	-2	-5	-5	2.79	5								

Box 19 111.4 - 116.9
 Box 20 116.9 - 117.6

-at 93.3m: interbanded pale green sericite-quartz pyrite schist 10cm wide,

Interval	Description	Sample ID	Sample Int. From To	Length (Metres)	% Rec.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
From To	banding at 80-90 deg. core axis, -100.3m: increasing graphitic argillite bands to 20% of rock, -gradational interbanded contact over 3m to															
160.7	112.4 GRAPHITIC ARGILLITE, CALCAREOUS ARGILLITE: black and light grey, interbanded, with minor light grey, fine grained argillaceous marble, banding at 70 - 80 deg. core axis, stringers of medium crystalline pyrite to 1% in argillite, broken core in part, poker chip argillite in part, minor dry fractures at 0 deg. core axis, -111.0m: highly contorted banding, "crinkle" folds at 30 - 90 deg. core axis, -110.6m: trace stringers of pyrrhotite, -sharp FAULTED CONTACT at 30 deg. core axis to	59658 59659	106.7 109.7 109.7 112.4	3.0 2.7	100 100	66 49	19 18	58 85	4 3	-0.2 -0.2	17 17	-2 -2	-5 -5	-5 -5	4.22 4.25	-5 -5
112.4	117.6 ARGILLACEOUS MARBLE, CALCAREOUS ARGILLITE: light grey, dark grey, interbanded, fine grained, with minor graphitic argillite, banding contorted in fault zone near contact, -112.4m to 112.7m: regular banding at 60 - 70 deg. core axis, irregular blebs of pyrite along argillite bands to 0.5%, -this section showed harder, slower drilling with bit in good shape, weakly silicified?	59660 59661	112.4 115.4 115.4 117.6	3.0 2.2	100 100	23 26	14 19	39 43	1 -1	-0.2 -0.2	7 6	-2 -2	-5 -5	-5 -5	1.91 1.76	-5 -5

Interval	Description	Samp. ID	Sample Int.	Length % Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au
From	To		From	To (Metres)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb

END OF HOLE at 117.6m (3861') at 1800 hours
 January 25, 1988.

Interval From To Description

Co-ords: 4E / 1S
 Azimuth: 160 deg.
 Dip: -48 deg.
 Elevation: 1220 m
 Length: 136.9 m (449')

Discovery Consultants
 Drilling Log

Samp. ID Sample Int. Length & Rec. Hole No.: 294-02
 From To (Metres) Property: Scotch
 Location: Scotch 1
 Date St.: Jan 26 1988
 Date Fin: Jan 28 1988
 Logged by: Barry Kyba
 Date Logged: Jan 28 1988

Purpose: test geophysical anomaly

Interval	From	To	Description	Samp. ID	Sample Int.	Length	% Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au	
					From	To	(Metres)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	
0.0			8.2 CASING - no recovery,																
8.2			21.7 SERICITE-CHLORITE SCHIST PHYLLITE : dark to light green/grey, very thin laminae at 70 - 80 deg. core axis, minor quartz banding up to 10mm wide, minor rusty vuggy quartz-pyrite-chalcopyrite veins at 80 deg. core axis, parallel to banding,	59662	8.2	11.2	3.0	100	487	22	58	3	0.2	24	-2	9	-5	3.36	10
Box 1	0	14.3		59663	11.2	14.2	3.0	100	26	47	122	1	-0.2	11	-2	-5	2.64	-5	
Box 2	14.3	19.9		59664	14.2	17.2	3.0	100	43	13	104	1	-0.2	9	-2	-5	2.53	5	
Box 3	19.9	25.8		59665	17.2	20.2	3.0	100	25	38	70	1	-0.2	10	-2	-5	2.68	-5	
Box 4	25.8	31.6		59666	20.2	21.7	1.5	100	95	31	240	2	-0.2	29	-2	-5	6.59	-5	

-disseminated pyrite along foliation to 1%, rusty broken core at 11.0m FAULT ZONE?,
 -11.5m to 13.5m: biotite rich bands common,
 -14.3m to 16.8m: biotite rich bands common,
 -20.2m to 20.4m: coarse calcite veining with pyrrhotite,
 -gradational contact over several cm to ...

21.7			29.2 BIOTITE SCHIST: dark and light grey, very thin laminations, phyllite sheen along	59667	21.7	24.7	3.0	100	20	11	42	-1	-0.2	9	-2	10	-5	2.40	-5
				59668	24.7	27.7	3.0	100	21	13	60	-1	-0.2	10	-2	-5	-5	2.36	-5

Interval	Description	From	To	Length (Metres)	% Rec.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
Box 5	foliation at 70 - 90 deg. core axis, minor irregular white quartz bleeds, knots and veins?, trace disseminated pyrite, minor, weakly calcareous, bands and lenses,	31.6	37.2	1.5	100	16	12	59	-1	-0.2	9	-2	-5	-5	2.28	-5
Box 6		37.2	42.2	1.5	100	16	12	59	-1	-0.2	9	-2	-5	-5	2.28	-5
	-gradational contact over several cm at 75 deg. core axis to ...															
29.2	30.1 CHLORITE-SERICITE SCHIST PHYLITE : pale green, very thin laminations, to massive, very fine crystalline, trace disseminated pyrite,	29.2	30.1	0.9	100	26	7	115	1	-0.2	12	-2	-5	-5	5.10	-5
	-sharp contact at 80 deg. core axis to ...															
30.1	43.9 BIOTITE SCHIST and GRAPHITIC ARGILLITE: black, light grey and dark grey interbanded, minor calcareous argillite bands, laminations on mm scale, minor quartz banding at 31.2m - 31.4m; disseminated and stringer, very fine grained pyrite along foliation to 1%, trace disseminated pyrrhotite,	30.1	33.1	3.0	100	27	11	55	1	-0.2	14	-2	-5	-5	2.52	-5
	-interbands of green sericite-chlorite schist more common from 32.0m to poker chip stacks,	33.1	35.0	1.9	100	23	13	92	-1	-0.2	10	-2	-5	-5	2.49	-5
	-35.0m to 36.5m: chlorite-sericite schist bands,	35.0	36.5	1.5	100	33	44	196	1	-0.2	14	-2	-5	-5	3.91	-5
	-36.5m to 39.8m: complete interbanding of argillite and sericite schist,	36.5	39.8	3.3	100	37	60	587	1	-0.2	8	-2	-5	-5	2.74	-5
	-39.8m to 40.5m: sericite schist with stringers of pyrite, pyrrhotite, and chalcopyrite, rare dark brown sphalerite,	39.8	40.5	0.7	100	112	89	939	2	-0.2	9	-2	-5	-5	6.78	-5
	-40.5m: interbanded calcareous argillite	40.5	42.9	2.4	100	51	60	110	1	-0.2	20	-2	-5	-5	4.41	-5

Interval	Description	Sample ID	Sample Int. From To	Length (Metres)	Rec.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
From To																
	-53.5m to 53.8m: quartz veins, -quartz vein filled contact at 55 deg. core axis to ...															
53.8	74.2 INTERBANDED ARGILLACEOUS MARBLE and CALCAREOUS ARGILLITE: dark and light grey, fine grained, white calcite-quartz bands common to 10% of rock, minor interbands of black graphitic argillite, minor interbands of pale green sericite schist up to 15cm wide, trace pyrite stringers, rare chalcopyrite?, -71.0m: increasing bands of black graphitic argillite, banding at 60 - 80 deg. core axis, -gradational contact over several meters to ...	48007 48008 48009 48010 48011 48012 48013	53.8 56.8 56.8 59.8 59.8 62.8 62.8 65.8 65.8 68.8 68.8 71.8 71.8 74.2	3.0 3.0 3.0 3.0 3.0 3.0 2.4	100 100 100 100 100 100 100	36 47 23 37 25 23 29	40 19 116 20 20 23 25	72 140 119 46 28 58 28	2 1 1 -1 -1 -1 -1	-0.2 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2	4 10 2 9 5 5 7	-2 -2 -2 -2 -2 -2 -2	-5 -5 -5 -5 -5 -5 -5	-5 -5 -5 -5 -5 -5 -5	1.59 2.52 1.23 2.29 1.56 1.58 2.10	-5 -5 10 -5 -5 -5 -5
74.2	83.5 INTERBANDED GRAPHITIC ARGILLITE and CALCAREOUS ARGILLITE: black and light grey, calcareous argillite grades to fine grained argillaceous marble, -75m: scattered diagenetic euhedral pyrite to 2% in black argillite, minor pyrite in quartz-calcite bands in calcareous argillite, banding at 60 deg. core axis, -80.2m: increasing calcareous argillite and argillaceous marble bands, -gradational contact over several meters to ...	48014 48015 48016	74.2 77.2 77.2 80.2 80.2 83.5	3.0 3.0 3.3	100 100 100	52 51 33	24 16 17	57 99 60	-1 2 1	-0.2 -0.2 -0.2	15 17 9	-2 -2 -2	-5 5 -5	-5 -5 -5	3.42 4.47 3.01	-5 -5 -5
83.5	106.9 ARGILLACEOUS MARBLE and CALCAREOUS ARGILLITE:	48017	83.5 84.6	1.1	100	34	23	45	1	-0.2	8	-2	8	-5	2.89	-5

Interval	Description	Sample ID	From	To	Int.	Length	% Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au	
From	To				(Metres)			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	
	light and dark grey, interbanded, fine grained, white calcite/quartz bands very common to 20% of rock and up to 10 cm wide, minor black graphitic-pyritic argillite bands at 80 deg. core axis,																		
	-84.0m to 84.1m: pale green pyritic sericite schist bands,																		
	-84.6m to 85.2m: sharp upper contact at 80 deg. core axis, gradational "mixed" zone lower contact,	48018	84.5	85.2	0.6	100	69	52	267	1	-0.2	23	-2	44	-5	5.16	-5		
		48019	85.2	88.2	3.0	100	22	29	61	1	-0.2	7	-2	11	-5	2.35	-5		
	-from 87.7m: increasing black graphitic-pyritic argillite to 40% of rock, diagenetic pyrite to 2%, minor stringers of pyrrhotite,	48020	88.2	91.2	3.0	100	51	29	79	1	-0.2	15	-2	8	-5	3.74	-5		
		48021	91.2	94.2	3.0	100	46	17	50	4	-0.2	14	-2	9	-5	3.86	-5		
		48022	94.2	97.2	3.0	100	23	13	39	-1	-0.2	6	-2	-5	-5	2.39	-5		
		48023	97.2	100.2	3.0	100	24	15	75	-1	-0.2	6	-2	-5	-5	2.33	-5		
	-88.4m to 89.4m: locally, banding very contorted, in argillite,																		
	-93.5m to 93.7m: pyritic sericite schist band,																		
	-from 98.0m: marble becomes very fine grained and more argillaceous,																		
Box 19	109.5 - 115.0																		
Box 20	115.0 - 127.0																		
Box 21	120.7 - 127.0																		
Box 22	127.0 - 131.8																		
	-from 100.5m: calcareous argillite and graphitic argillite to 50% of rock, fine interbanded, "crinkle" folds common with axes at 10 to 90 deg. core axis,	48024	100.2	103.2	3.0	100	69	37	83	1	-0.2	14	-2	-5	-5	4.16	-5		
	-104.5m to 105.0m: zone of interbanded (mm scale), pale green sericite schist,	48025	103.2	106.2	3.0	100	58	15	95	2	-0.2	20	-2	-5	-5	4.30	-5		

Interval	Description	Sample ID	Sample Int. From To	Length (Metres)	% Rec.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	B1 ppm	As ppm	Sb ppm	Fe %	Au ppb
106.9	-105.9m to 106.9m: pale green sericitic schist with trace stringer and disseminated pyrite, -graphitic argillite with diagenetic euhedral pyrite to 1%, trace stringers in blebs of pyrrhotite, -GRAPHITIC ARGILLITE to 80% of rock with interbanded calcareous argillite, interbands of light and dark grey calcareous argillite to 20% of rock, -108.8m to 109.0m: FAULT ZONE -110.6m to 111.0m: FAULT ZONE -113.6m: "crinkle" folded argillite with 2% stringers and blebs of pyrrhotite along fold axes, -114.5m to 118.5m: stringer and scattered pyrite cubes in graphitic argillite to 3%, -121.0m to 122.5m: FAULT ZONE, ground core, poor recovery, -123.4m to 123.7m: FAULT ZONE, -faults here are in black graphite, separated by bands of fine grained argillaceous marble and white coarse crystalline marble, -124.0m to 125.9m: FAULT ZONE. -sharp contact at 80 deg. core axis to ...	48026 48027 48028 48029	106.2 109.2 109.2 112.2 112.2 115.2 115.2 118.2	3.0 3.0 3.0 3.0	100 100 100 100	68 50 47 44	16 7 8 7	122 88 110 49	2 1 1 2	-0.2 -0.2 -0.2 -0.2	23 17 15 16	-2 -2 -2 -2	-5 -5 -5 18	-5 -5 -5 -5	4.77 3.89 3.66 4.05	-5 -5 -5 -5

Interval	Description	Sampl. ID	Sample Int. From To	Length (Metres)	% Rec.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb	
125.9 To 126.4	ANDESITE?: dark green, massive, hard, very fine grained dyke, -fault contact at 90 deg. core axis to ...	48033	127.2 129.8	2.6	100	40	51	178	3	-0.2	13	-2	8	-5	3.17	-5	
126.4 To 129.8	GRAPHITIC ARGILLITE: black, and interbanded light gray and white, fine to coarse crystalline MARBLE, highly contorted banding common, "mixed" zone and brecciated in part, -very sharp irregular contact to ...	48034 48035 48036	129.8 132.8 132.8 134.1 134.1 136.9	3.0 1.3 2.8	60 90 100	15 24 8	2 12 162	73 60 133	2 5 5	-0.2 -0.2 0.3	18 18 4	-2 -2 -2	-5 -5 8	-5 -5 8	4.49 4.44 1.57	-5 -5 -5	
129.8 To 136.9	ANDESITE? DYKE: dark and light green, very fine grained, trace disseminated pyrite, chlorite rich shears at 131.3m with 2% pyrite, -from 131.8m to 132.6m: ground and lost core, -134.1m: chill margin of dyke ends, to a white-pink cast, feldspar, chloritized hornblende porphyry, highly fractured rock, broken core, aphanitic hard matrix, disseminated pyrite to 1%, rare open fractures with trace fine crystalline pyrite, molybdenite, sphalerite; white, very fine grained calcite coating on fractures, generally fresh looking rock.																

A " - " symbol for any geochem value refers to a result less than detection limit.

END OF HOLE at 136.9m at 1600 hours

January 28, 1988.

Interval From To
 Co-Ords: 4E / 1N
 Azimuth: 160 deg.
 Dip: -50 deg.
 Elevations: 1255m
 Length: 157.3m (516')
 Sections: 4E
 Purposes: Test co-incident Magnetic, Max-Min, Geochem anomaly

Description
 Discovery Consultants
 Drill type & sizes:
 Dip tests:

Sample ID Interval From To Length (Metres) Rec. %
 294-3 Longyear 3B, NQ

Chemical Analysis (ppm):
 Cu 72, Pb 17, Zn 127, Mo 1, Ag -0.5, Co 7, Bi 5, As -5, Sb -5, Fe 4.81, Au 10
 106, 20, 117, 1, -0.5, 5, -2, -5, 4.01, -5
 73, 11, 166, 1, -0.5, 4, 2, -5, 3.55, -5
 162, 18, 266, 1, -0.5, 5, -2, -5, 4.25, 5

Property: Scotch 1
 Location: Scotch 1
 Date St.: Jan 29 1988
 Date Fin: Jan 31 1988
 Logged by: Barry Kyba
 Date Logged: Feb 10 1988

Interval From To Description

0.0 4.9 CASING - no recovery, tricone bit

4.9 43.8 INTERBANDED CHLORITE SCHIST AND QUARTZ
 CHLORITE SCHIST: dark and light green, banded at 85-90 deg. core axis, quartzose bands up to 1.5m wide, coarse crystalline pale yellow euhedral pyrite bands in chlorite schist common to 3%,

Chemical Analysis (ppm):
 Cu 72, Pb 17, Zn 127, Mo 1, Ag -0.5, Co 7, Bi 5, As -5, Sb -5, Fe 4.81, Au 10
 106, 20, 117, 1, -0.5, 5, -2, -5, 4.01, -5
 73, 11, 166, 1, -0.5, 4, 2, -5, 3.55, -5
 162, 18, 266, 1, -0.5, 5, -2, -5, 4.25, 5

Interval From To Description

12.5m: white coarse crystalline quartz vein, coarse grained pyrite along vein margins,
 -14.6m: white and pale green pegmatitic? quartz-sericite vein at 75 deg. core axis,
 -rare, rusty, open fractures lined with white medium crystalline calcite and fine grained lacy pyrite at 0 to 10 deg. core axis,
 -15.5 - 17.1m: white massive quartz veining up to 10cm wide, commonly 20mm wide at 60 deg. core axis, disseminated and fracture pale yellow pyrite to 3%, in veins,

Sample ID Interval From To Length (Metres) Rec. %
 48037 4.9 7.9 3.0 100
 48038 7.9 10.9 3.0 100
 48039 10.9 13.9 3.0 100
 48040 13.9 16.5 2.6 100

Chemical Analysis (ppm):
 Cu 72, Pb 17, Zn 127, Mo 1, Ag -0.5, Co 7, Bi 5, As -5, Sb -5, Fe 4.81, Au 10
 106, 20, 117, 1, -0.5, 5, -2, -5, 4.01, -5
 73, 11, 166, 1, -0.5, 4, 2, -5, 3.55, -5
 162, 18, 266, 1, -0.5, 5, -2, -5, 4.25, 5

Box 5 27.2 - 33.1
 Box 6 33.1 - 38.7
 Box 7 38.7 - 44.3
 Box 8 44.3 - 49.9

Sample ID Interval From To Length (Metres) Rec. %
 48041 15.5 17.1 0.6 100

Chemical Analysis (ppm):
 Cu 80, Pb 9, Zn 30, Mo -1, Ag -0.5, Co 6, Bi -2, As 11, Sb -5, Fe 1.79, Au -5

Interval		Description										Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au
From	To	Sample ID	Interval From	Interval To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb					
		48042	17.1	20.1	3.0	100	102	18	69	1	-0.5	5	2	-5	-5	3.80	-5					
		48043	20.1	23.1	3.0	100	56	12	44	1	-0.5	4	-2	8	-5	2.91	-5					
		48044	23.1	25.1	3.0	100	82	9	52	1	-0.5	5	2	7	-5	3.10	-5					
		48045	25.1	28.0	1.9	100	79	15	240	1	-0.5	4	-2	8	-5	2.76	-5					
		48046	28.0	29.9	1.9	100	83	15	596	2	-0.5	3	-2	7	-5	2.62	-5					
		48047	29.9	32.9	3.0	100	257	18	535	1	-0.5	7	-2	-5	-5	4.11	-5					
		48048	32.9	35.9	3.0	100	95	14	67	1	-0.5	5	-2	13	-5	3.81	-5					
		48049	35.9	38.9	3.0	100	116	9	86	1	-0.5	5	3	5	-5	3.28	-5					
		48050	38.9	41.9	3.0	100	117	11	106	1	-0.5	5	-2	6	-5	2.81	-5					
		48051	41.9	43.8	1.9	100	137	15	122	1	-0.5	5	-2	-5	-5	2.72	-5					

-from 17m QUARTZ-CHLORITE SERICITE SCHIST to 70% of core with interbanded CHLORITE SCHIST at 30%,

-pyrite bands up to 10mm wide common in CHLORITE-SERICITE SCHIST bands at 90 deg. core axis,

-26.8 - 27.1m: white massive quartz vein with fault contacts at 30 deg. core axis to schist, weak "bleaching" of SERICITE SCHIST on vein margins,

-28.0 - 29.9m: FAULT ZONE at 45 deg. core axis, with "bleached" crushed SERICITE SCHIST, mud and clay, highly broken core, broken core with open calcite lined fractures at 0 deg. core axis, calcite lining coated with fine crystalline bright yellow pyrite,

-below fault zone (29.9m) pyrite banding and foliation at 45 - 60 deg. core axis,

-38.1 - 38.4: white massive quartz vein at 45 deg. core axis, pyrite along vein margins,

-disseminated fine grained pyrite along foliation in schist to 3% from 33m,

-from 38m; increasing fine grained quartz in core, sericite schist grades to QUARTZ-SERICITE SCHIST over several meters, pale green, grey, fine to medium grained, hard dense rock, disseminated pyrite to 1%, trace chalcopyrite and sphalerite?,

Interval	Description	Sample ID	Interval	Length	Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au	
From	To		From	To (Metres)	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	
43.8	47.0	48052	43.8	47.0	3.2	100	133	13	502	3	-0.5	23	-2	-5	-5	7.00	5
			-gradational interbanded contact at 45 deg. core axis to... 47.0 CHLORITE SCHIST: dark green, fine to medium grained, soft, well developed foliation at 45 deg. core axis, fine grained pyrite, pyrrhotite stringers common to 3%, -large euhedral pyrite cubes along foliation minor, to 1cm sides of cube, -45.0 - 47.0m: quartz stringers to 5% of core with minor pyrite, pyrrhotite, chalcopyrite and sphalerite along vein margins, -interbanded contact at 60 deg. core axis, to ... 48.0 CALCITE SPECKLED CHLORITE SCHIST: dark green, fine grained, conspicuous white calcite filled "vesicles" to 5% of core, vesicles to 2mm across, -sharp contact at 60 deg. core axis to... 53.9 BIDIYITE CHLORITE SCHIST: dark green, brown green, fine to medium grained, distinct bands of black-brown biotite at 45 - 60 deg. core axis to 10% of rock, stringers of pyrite along foliation to 1%, trace pyrrhotite stringers, minor coarse crystalline pyrite along foliation, more common at 50.2 to 50.5m, -50.6 to 53.7m: irregular masses and blebs of pale grey, green, calc-silicate minerals common to 5% of rock, moderately														
47.0	48.0	48053	47.0	48.0	1.0	100	103	8	109	-1	-0.5	37	-2	-5	-5	8.43	5
48.0	53.9	48054	48.0	51.0	3.0	100	124	5	82	-1	-0.5	35	-2	-5	-5	6.91	15
48.0	53.9	48055	51.0	54.0	3.0	100	79	5	259	1	-0.5	31	5	-5	-5	5.19	-5
53.9	55.5	48056	54.0	56.8	2.8	100	127	7	140	6	-0.5	28	-2	-5	-5	6.94	-5

Interval		Sample ID	Interval		Length (Metres)	Rec. %	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au	
From	To		From	To			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		D e s c r i p t i o n																
		calcareous, very fine grained, in poorly defined bands parallel to foliation at 70 deg. core axis,																
		-55.7 to 56.0m: open fracture lined with coarse crystalline white calcite, fracture at 20 deg. core axis,																
			48057	56.8	58.5	1.7	70	52	-5	223	-1	-0.5	25	-2	-5	6.35	-5	
Box 11	61.9 - 67.4	-56.8 to 58.5: FAULT ZONE, crushed, talcose chlorite biotite schist, slickensides common at 40 deg. core axis, ground core,																
Box 12	67.4 - 73.3	-58.5 to 59.7m: interbands of very dark green-black graphitic argillite/chlorite schist up to 20cm wide,																
			48058	58.5	59.9	1.4	100	38	13	321	1	-0.5	23	-2	44	5.32	5	
		-gradational interbanded contact over several cm at 80 deg. core axis to...																
59.9	62.0	CALCAREOUS BIOTITE QUARTZ CHLORITE SCHIST: pale green, grey, fine to medium grained, biotite bands to 10%, fine granoblastic quartz to 20%, light grey bands strongly calcareous, grades to CHLORITIC MARBLE in part, stringers of fine grained pyrrhotite to 1%, minor disseminated pyrite, trace chalcopyrite with pyrite,																
			48059	59.9	62.0	2.1	100	190	31	624	-1	-0.5	44	-2	-5	6.39	-5	
		-sharp contact at 80 deg. core axis to ...																
62.0	66.9	BIOTITE CHLORITE SCHIST: dark green, mottled green brown, fine to medium grained, well developed foliation at 80 - 90 deg. core axis, disseminated and stringer, fine to coarse crystalline pyrite to 2%, stringers and bands of pyrrhotite with minor pyrite, quartz,																
			48060	62.0	65.0	3.0	100	600	13	447	1	-0.5	36	-2	-5	9.33	5	
			48061	65.0	66.9	1.9	100	134	-5	258	-1	-0.5	40	-2	-5	9.26	-5	

Interval		Description		Sample ID	Interval	Length	Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au		
From	To				From	To	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb		
		chalcopyrite up to 5cm wide, pyrrhotite to 3% of rock,																		
		-gradational, interbanded contact at 80 deg. core axis over several cm to ...																		
66.9	70.0	CHLORITE SCHIST: very dark green, fine to very fine grained, dense, massive rock, stringers of pyrite to 1%, stringers of pyrrhotite to 1%, with trace chalcopyrite,		48062	66.9	70.0	100	111	6	841	-1	-0.5	34	-2	-5	-5	7.62	-5		
Box 13 73.3 - 87.9																				
Box 14 78.9 - 84.6																				
Box 15 84.6 - 90.1																				
Box 16 90.1 - 95.9		-68.0m narrow interbands of pale green calcareous calc-silicate minerals,																		
		-gradational contact at 80 deg. core axis over several cm to ...																		
70.0	85.1	CALCAREOUS "SPECKLED" BIDIOTTE CHLORITE SCHIST: dark and light green, fine to medium grained, trace disseminated pyrite, rare pyrrhotite stringers with smokey grey quartz stringers to 1%,		48063	70.0	73.0	100	25	-5	154	-1	-0.5	28	-2	-5	-5	6.24	-5		
		-"speckled" calcite filled vesicles grade out by 71.2m, schist becomes moderately calcareous throughout,																		
		-73.7 to 73.8m: irregular quartz-pyrrhotite stringers at 50 deg. core axis, with minor pyrite and chalcopyrite,																		
		-73.8 to 79.4m: interbands of BIDIOTTE CHLORITE SCHIST, dark green, very fine grained, non-calcareous, dense rock, quartz pyrrhotite stringers with minor pyrite and chalcopyrite at 75.3 to 75.6m, 78.7m and 79.1m,		48064	73.0	76.0	100	185	-5	469	4	-0.5	23	-2	-5	-5	7.68	-5		
				48065	76.0	79.0	100	206	8	230	1	-0.5	30	2	-5	-5	6.42	-5		
				48066	79.0	82.0	100	146	-5	220	-1	-0.5	31	-2	-5	-5	6.73	5		

Interval	Description	Sample ID	Interval From	Interval To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
85.1	-82.7 to 82.9m: white, coarse crystalline quartz vein, irregular boundaries at 30 deg. core axis, trace pyrite paint in fractures, -84.8 to 85.1m: irregular white quartz stringers in dark green CALC-SILICATE CHLORITE PHYLLITE, -sharp contact (fault?) at 45 deg. core axis to ...	48067	82.0	85.1	3.1	100	162	7	116	-1	-0.5	23	-2	-5	-5	5.70	-5
85.1	93.4 BIOTITE QUARTZ CHLORITE SCHIST: light green and grey, fine to coarse grained, granoblastic quartz to 30% of rock in bands of chloritic quartzite, non-talcaeous, stringers of pyrite and pyrrhotite to 2% along foliation at 70 - 90 deg. core axis, -88.2 to 89.2m: fault bounded white coarse crystalline quartz vein at 80 deg. core axis, vein margins with quartz-pyrrhotite stringers with pyrite and chalcocopyrite,	48068	85.1	88.2	3.1	100	242	-5	103	-1	-0.5	25	4	-5	-5	5.67	-5
	-89.2 to 89.8m: FAULT ZONE, crushed CHLORITE SCHIST, talcose in part, poor recovery at 20%, -from 89.8 to 93.4m CHLORITE-SERICITE SCHIST with rare quartz-chalcocopyrite coated fractures at 0 - 5 deg. core axis, chalcocopyrite very fine grained to 1%,	48069	88.2	89.2	1.0	100	47	-5	26	1	-0.5	2	-2	18	-5	0.93	-5
	-93.3m: quartz-pyrrhotite stringer at 80 deg. core axis, with trace pyrite and chalcocopyrite,	48070	89.2	92.2	3.0	70	255	7	104	1	-0.5	16	4	-5	-5	4.27	-5
		48071	92.2	93.4	1.2	100	111	6	62	-1	-0.5	26	-2	-5	-5	4.13	-5

Box 17 95.9 - 101.5
Box 18 101.5 - 108.0
Box 19 108.0 - 133.5

Interval From To	Description	Sample ID	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
Box 20 113.5 - 119.2	D e s c r i p t i o n -sharp contact at 90 deg. core axis to ...															
93.4	95.9 CHLORITE-BIOTITE-SERICITE SCHIST: light grey, mottled brown and white, fine to coarse grained, fine banding and foliation at 70 - 90 deg. core axis, weakly calcareous in part, trace blebs and stringers of pyrrhotite along foliation, trace pyrite along foliation, -from 95.0m: less brown biotite mottled banding, gradational contact over several meters to ...	48072	93.4 95.9	2.5	100	110	5	85	-1	-0.5	24	-2	-5	-5	4.63	-5
95.9	108-B CHLORITE SCHIST: dark green, fine grained, interbands of CALCAREOUS QUARTZ CHLORITE SCHIST and BIOTITE CHLORITE SCHIST at 70-90 deg. core axis, and up to 30cm wide, -96.1m: quartz pyrrhotite stringers with blebs of chalcopyrite common, -97.0 - 98.0m: stringers of chalcopyrite along foliation in chlorite schist to 2%, chalcopyrite stringers to 1mm wide, chalcopyrite alone and as blebs with pyrrhotite stringers,	48073	95.9 97.0	1.1	100	1453	8	97	1	-0.5	36	-2	-5	-5	5.80	20
Box 21 119.2 - 124.5 Box 22 124.5 - 130.4	-102.3m: irregular white quartz vein, includes wisps of dark green chlorite, no visible sulphides, vein at 50 deg. core axis, -from 102.4m to 105.6m: brown biotite in schist to 20% to CHLORITE BIOTITE SCHIST, -104m: FAULT ZONE, poor recovery at 60%,	48074	97.0 98.0	1.0	100	2379	-5	101	-1	-0.5	37	-2	-5	-5	8.41	15
		48075 48076	98.0 101.0 101.0 104.0	3.0 3.0	100 80	176 83	-5 -5	81 69	-1 1	-0.5 -0.5	42 24	-2 -2	-5 -5	-5 -5	6.15 4.59	-5 -5
		48077	104.0 107.1	3.1	80	622	12	187	4	-0.5	49	-2	-5	-5	7.01	-5

Interval From To	Description	Sample ID	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	B ₁ ppm	As ppm
111.1	-109.5 to 110.4m: interbanded pale green sericite schist and creamy white quartz lenses, banding on cm scale at 60 - 70 deg. core axis, lenses and stringers of pyrrhotite to 2%, chalcopyrite blebs and fracture coatings at 20 deg. core axis to 0.5%, -irregular, gradational contact over several cm to ... -110.4 to 111.1m: massive and irregular stringers of fine grained pyrrhotite in complexly folded sericite-quartz schist, pyrrhotite to 20%, blebs and fracture fillings of chalcopyrite to 1%, trace pyrite, -gradational, interbanded contact over several cm at 50 deg. core axis to ...	48080	109.5 111.1	1.6	100	2317	54	161	3	-0.5	158	-2	-5
111.1	121.7 SERICITE-QUARTZ-CHLORITE SCHIST: dark green, light green, mottled, fine to medium grained, moderately soft, weakly calcareous in part, minor quartz-pyrrhotite stringers with trace chalcopyrite, -foliation at 50 - 70 deg. core axis, -sericite content gradually increases from 119.0m to QUARTZ-SERICITE CHLORITE SCHIST,	48081 48082	111.1 114.1 114.1 117.1	3.0 3.0	100 100	169 54	13 -5	108 138	4 -1	-0.5 -0.5	36 25	-2 -2	-5 -5
	-120.0m to 120.2m: quartz-pyrrhotite stringers with chalcopyrite blebs to 1%, -120.8m to 121.7m: chlorite schist with very fine grained pyrite stringers and fracture coatings to 3%, pyrrhotite stringers	48083 48084	117.1 120.2 120.2 121.7	3.1 1.5	100 100	905 434	25 15	195 85	1 1	0.6 -0.5	20 34	2 -2	-5 -5

Interval		D e s c r i p t i o n		Sample ID	Interval	Length	Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As
From	To				From	To	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			along foliation at 75 deg. core axis to 1/2, trace chalcopyrite blebs with pyrite,												
			-sharp contact at 70 deg. core axis to												
		...													
121.7	123.5	123.5	BLACK SPECKLED QUARTZ SERICITE SCHIST: white and light grey, mottled very light green, fine grained with conspicuous medium grained black irregular formed porphyroblasts to 2mm across, porphyroblasts to 2% of rock - dark green chlorite knots? disseminated and stringer very fine grained pyrite to 1%, trace pyrrhotite, very rare chalcopyrite,	48085	121.7	123.5	1.8	50	13	41	1	-0.5	7	-2	10
			-sharp contact at 80 deg. core axis to												
		...													
123.5	124.4	124.4	QUARTZ-CHLORITE-SCHIST: dark to very dark green, fine grained, banding at 70 - 80 deg. core axis, stringer pyrrhotite to 2%, blebs and stringers of very fine grained pyrite to 1%,	48086	123.5	124.4	0.9	359	14	160	1	-0.5	29	2	-5
			-trace fine grained chalcopyrite,												
			-123.7m to 124.4m: FAULT ZONE, crushed and brecciated chlorite schist, quartz fragments to 1cm across in green chlorite gouge, lenses and wisps of pyrrhotite, pyrite and trace chalcopyrite in matrix, fault is contact at 45 deg. core axis? to ...												
124.4	130.4	130.4	INTERBANDDED GRAPHITIC ARGILLITE AND CALCAREOUS ARGILLACEOUS SILTSTONE: black and light grey, very fine to fine grained, very finely laminated on mm scale at 70 - 90 deg. core	48087	124.4	127.4	3.0	30	5	81	-1	-0.5	10	-2	-5
				48088	127.4	130.4	3.0	23	-5	60	-1	-0.5	9	-2	-5

Interval	Description	Sample ID	Interval	Length	Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As
From	To		From	(Metres)	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	axis, locally calcareous siltstone grades to ARGILLACEOUS SILTY MARBLE, -minor stringers of fine grained pyrrhotite, -trace disseminated pyrite, -white quartz bands common up to 1cm wide, less than 2% of rock, -sharp contact at 85 deg. core axis to ...												
130.4	143.3	48089	130.4 133.4	3.0	100	53	45	348	-1	-0.5	12	-2	14
	INTERBANDED GRAPHITIC ARGILLACEOUS MARBLE AND QUARTZ-BIOTITE CHLORITE SCHIST: light green, dark green mottled, very fine laminae at 80 - 90 deg. core axis, trace disseminated pyrrhotite and pyrite,												
Box 25 141.7 - 147.9													
Box 26 147.9 - 153.4	-schist bands up to 3m wide, and marble bands up to 1m wide with conformable sharp contacts, -139.3m to 140.0m: quartz-pyrrhotite stringers and blebs in chlorite schist, minor chalcopyrite blebs to 0.25% over 70cm, -chlorite schist bands are weak to moderately calcareous,												
	-142.3m to 143.3m: "crush" zone in CALCAREOUS QUARTZ SCHIST, laminae broken and rotated, tension gashes filled with fine crystalline calcite, dry fractures coating pyrite and stringer pyrite to 2%,												
		48090	133.4 135.4	3.0	100	32	10	164	-1	-0.5	9	-2	-5
		48091	136.4 139.4	3.0	100	86	18	1048	-1	-0.5	9	-2	-5
		48092	139.4 142.3	2.9	100	127	7	565	-1	-0.5	12	-2	-5
		48093	142.3 143.3	1.0	100	204	7	155	1	-0.5	18	-2	-5

Interval	To	From	Sample ID	Interval	Length	Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Al
				From	To	(Metres)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb
				48100	154.0	157.3	27	18	30	-1	-0.5	8	-2	7	-5	2.16	-5

D e s c r i p t i o n

core, poor recovery,

-153m: 5mm pyrite-quartz stringers at 45 deg. core axis cross cuts banding in marble, marble banded at 50 - 70 deg. core axis, locally highly contorted over 10 cm,

END OF HOLE at 157.3m (516')

January 31, 1988, 1600 hours

A ' - ' or ' + ' symbol for any geochem value refers to a value less than or greater than detection limit respectively.

Interval Description

From To

Co-Drds: 8E/0+80S

Azimuth: 160 deg.

Dip: -56 deg.

Elevation: 1115 m.

Length: 107.3 m (352')

Sections: 8E

Purpose: Test extension of MAX-MIN anomaly

Discovery Consultants

Drill Log

Drill type & sizes: Longyear 38, NQ

Dip tests: None

Hole No.: 294-4

Property: Scotch

Location: Scotch 1

Date St.: Feb 01 1988

Date Fin: Feb 03 1988

Logged by: Barry Kyba

Date Logged: Feb 11 1988

Interval	Description	Sample Id	Interval From To (Metres)	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
0.0	20.4 CASING - tricone bit, no recovery															
20.4	43.0 INTERBANDED ARGILLACEOUS MARBLE AND GRAPHITIC ARGILLITE: dark grey, light grey, fine to medium grained, very finely laminated at 60 - 80 deg. core axis, white marble bands common to 5% of rock and up to 10cm wide, irregular blebs and stringers of fine grained pyrite with minor pyrrhotite to 0.5%, -marble is 80% of interval and argillite is 20%, argillite with stringers of medium grained pyrite along laminae, -31.4m to 32.4m: quartz vein and "crushed" graphitic argillite, stringers and blebs of pyrrhotite and pyrite to 2%, mainly along foliation, in some stringers pyrite rims pyrrhotite cores and in other stringers pyrrhotite rims pyrite cores, quartz vein has sharp irregular boundaries to argillite, -marble bands show much less complexly folded laminae than thick graphitic argillite, bands,	48101	20.4 23.4	3.0	100	43	80	151	1	-0.5	6	-2	-5	-5	1.78	-5
		48102	23.4 26.4	3.0	100	26	20	29	-1	-0.5	6	-2	-5	-5	1.71	-5
		48103	26.4 29.4	3.0	100	20	23	65	-1	-0.5	5	-2	-5	-5	1.50	-5
		48104	29.4 31.4	2.0	100	27	14	28	-1	-0.5	5	-2	-5	-5	1.67	-5
		48105	31.4 32.4	1.0	100	39	13	57	1	-0.5	12	-2	-5	-5	2.96	-5
		48106	32.4 35.4	3.0	100	34	18	63	-1	-0.5	11	-2	-5	-5	2.86	-5
		48107	35.4 38.4	3.0	100	24	17	34	1	-0.5	6	-2	-5	-5	2.01	-5
		48108	38.4 41.4	3.0	100	34	19	47	1	-0.5	13	-2	-5	-5	3.12	-5

Interval	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
43.0	-minor rusty slickensides at 45 deg. core axis from 33 to 35m and 40 - 41m with 2 - 5mm wide white quartz veins common over same intervals, -from 41m, increasing graphitic argillite bands to 30% of rock, forming gradational contact over several meters to ...	48109	41.4 43.0	1.6	100	40	18	56	1	-0.5	13	-2	-5	-5	2.99	5
43.0	66.8 GRAPHITIC ARGILLITE with minor interbands of ARGILLACEOUS MARBLE: black and dark grey to light grey, very fine to fine grained, very fine laminae at 45 to 90 deg. core axis, locally very complexly folded on cm scale, scattered euhedral fine to coarse crystalline pyrite to 1% along foliation, minor pyrrhotite with pyrite stringers, -minor white marble bands in argillaceous marble,	48110 48111 48112	43.0 46.0 46.0 49.0 49.0 52.0	3.0 3.0 3.0	100 100 100	44 40 43	21 40 20	32 52 39	2 3 3	-0.5 -0.5 -0.5	13 12 13	-2 -2 -2	9 9 -5	-5 -5 -5	3.49 3.25 3.72	-5 -5 -5
	-pale green-brown CHLORITE-SERICITE SCHIST bands up to 30cm wide from 44m to 44.3m, -44.3m to 44.5m: FAULT ZONE - crushed and broken graphite gouge, -CHLORITE SCHIST bands from 55 to 66m, up to 5% of rock, interbanded and commonly fault banded in graphitic argillite, schist with disseminated fine grained pyrite to 1%, -MARBLE bands up to 20cm wide to 10% of rock, -60m to 56m: badly broken core, recovery	48113 48114 48115	52.0 55.0 55.0 58.0 58.0 61.0	3.0 3.0 3.0	100 100 90	43 59 43	22 15 14	50 67 130	3 2 2	-0.5 -0.5 -0.5	14 15 13	-2 -2 -2	-5 -5 -5	-5 -5 -5	3.34 4.01 3.83	-5 -5 -5

Interval From To	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
	down to 70%, numerous faults, at 30 - 90 deg. core axis, throughout graphitic argillite,	48116	61.0 62.7	1.7	60	35	25	122	3	-0.5	15	-2	21	-5	4.23	-5
	-62.7m to 64.5m: "broken" quartz veined graphitic argillite, pyrite to 1%, pyrrhotite to 0.5%, trace red-brown sphalerite? around white quartz fragments,	48117 48118	62.7 64.5 64.5 66.8	1.8 2.3	90 100	49 32	13 28	80 79	2 9	-0.5 -0.5	12 10	-2 -2	-5 12	-5 -5	3.46 3.17	-5
	-from 65.8m increasing marble bands to 20% of rock,															
	-66.6m to 65.8m: MARBLE AND GRAPHITIC ARGILLITE BRECCIA, well healed with fine crystalline white calcite, trace disseminated pyrite along graphite slickensides,															
	-sharp contact at 45 deg. core axis to ...															
65.8	71.0 ARGILLACEOUS MARBLE with interbanded GRAPHITIC ARGILLITE: light and dark grey banded, fine to medium grained, white marble bands to 10% of interval, locally banding very contorted and folded, minor 5cm wide bands of CHLORITE SCHIST, bands average 60 deg. core axis,	48119	66.8 69.8	3.0	95	17	24	51	2	-0.5	4	-2	13	-5	2.03	5
	-69.7m to 70m: FAULT ZONE in graphitic argillite band,	48120	69.8 71.0	1.2	70	21	66	74	7	-0.5	9	-2	12	-5	2.86	-5
	-70.5m to 71m: FAULT ZONE at 90 deg. core axis in argillaceous marble, broken core, poor recovery to 20%, -gradational contact over several meters to ...															
71.0	79.7 INTERBANDS GRAPHITIC ARGILLITE AND	48121	71.0 74.0	3.0	100	49	13	78	2	-0.5	13	-2	17	-5	3.54	-5

Interval	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
From To	ARGILLACEOUS MARBLE: black, light grey and dark grey bands on mm scale at 50 - 90 deg. core axis, -argillite to 60% of interval, -marble to 40% of interval, -rare pale green CHLORITE SCHIST bands up to 5cm wide, -pyrrhotite stringers to 1.0%, trace disseminated and stringer pyrite, -74.1m to 74.3m: ground core and CAVE? -increasing marble bands from 78.5m, gradational contact over 30cm to ...	48122 48123	74.0 77.0 77.0 79.7	3.0 2.7	90 100	61 59	11 39	103 103	4 2	-0.5 -0.5	16 18	-2 -2	-5 -5	-5 -5	4.12 4.23	-5 -5
79.7	81.6 ARGILLACEOUS MARBLE: light and dark grey, banded, medium to coarse crystalline, banding at 50 - 70 deg. core axis, minor interbands of graphitic argillite with 1% pyrrhotite, pyrite, -sharp contact at 50 deg. core axis to ...	48124	79.7 81.6	1.9	100	10	29	35	2	-0.5	1	-2	5	-5	1.21	-5
81.6	85.1 DYKE: dark brown, grey, very fine grained, massive, minor white feldspar phenocrysts and rare brown biotite phenocrysts, disseminated fine grained pyrite to 0.5%, -dyke shows well developed very fine grained chill margins and is cut by calcite-pyrite lined fractures at 10 - 15 deg. core axis,	48125	81.6 83.3	1.7	100	22	5	73	1	-0.5	16	-2	-5	-5	4.35	-5

Interval From	To	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
		-83.2m to 84.3m: contact at 45 deg. core axis back into graphitic argillite and argillaceous marble then sharp contact at 60 deg. core axis to dyke, as above,	48126 48127	83.3 84.3 84.3 85.1	1.0 0.8	100 100	53 17	21 -5	79 68	3 -1	-0.5 -0.5	15 19	-2 -2	-5 -5	-5 -5	4.08 4.29	-5 -5
		-sharp contact at 75 deg. core axis to															
		...															
85.1	107.3	INTERBANDED ARGILLACEOUS MARBLE AND GRAPHITIC ARGILLITE: black and light grey-dark grey banded, fine to medium crystalline marble to 70% of interval, white marble bands to 5% of rock, -black argillite with 1% stringer and disseminated pyrrhotite, -minor 2mm white calcite-pyrite filled fractures at 5 - 10 deg. core axis, -from 89.0m to 97m rare pale green interbands of CHLORITE-SERICITE SCHIST up to 10cm wide, disseminated pyrite to 1%, -from 88.0m banding in argillite and marble is very regular at 80 - 90 deg. core axis,	48128	85.1 88.1	3.0	100	51	19	90	1	-0.5	15	-2	-5	-5	3.65	-5
			48129 48130 48131 48132	88.1 91.1 91.1 94.1 94.1 97.1 97.1 100.1	3.0 3.0 3.0 3.0	100 100 100 100	61 24 34 51	88 15 25 21	122 43 51 56	1 -1 2 3	-0.5 -0.5 -0.5 -0.5	16 6 10 15	-2 -2 -2 -2	-5 6 6 -5	-5 -5 -5 -5	3.66 2.27 3.29 4.43	-5 -5 -5 -5
			48133 48134 48135	100.1 103.1 103.1 106.1 106.1 107.3	3.0 3.0 1.2	100 100 100	36 34 24	100 12 11	814 40 66	3 -1 -1	-0.5 -0.5 -0.5	11 7 5	-2 -2 -2	9 -5 -5	-5 -5 -5	3.01 2.24 1.79	-5 -5 -5

END OF HOLE at 107.3m (352') at hours

Interval	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
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A ' - ' symbol for any geochem value refers to a result less than detection limit.

February 03, 1988

Interval From To	Description	Sample ID	Sample Int. From To	Length & Rec. (Metres)	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
	CHLORITE-SERICITE SCHIST,														
	-27.0m to 27.5m: quartz rich chlorite sericite schist, granoblastic quartz along foliation to 15% of rock,	48141	27.4 30.4	3.0 100	32	-5	75	-1	-0.5	4	-2	-5	-5	2.49	-5
	-30.4m to 31.0m: quartz rich chlorite-sericite schist, as above, gradational conformable contacts to schist,	48142	30.4 33.4	3.0 100	85	-5	97	1	-0.5	6	-2	-5	-5	2.99	5
	-32.1m to 32.3m: sharp boundaries to white coarse crystalline quartz vein at 70 deg. core axis, minor inclusions of white sericite, lower contact with fragments of "bleached" silicified schist?,														
	-32.8m to 33.0m: very pale grey-green SERICITE SCHIST,	48143	33.4 35.4	3.0 100	61	-5	310	3	-0.5	5	-2	-5	-5	2.88	5
	-35.3m to 37.2m: pyrite rich bands up to 3mm wide parallel to foliation at 70 deg. core axis,	48144	35.4 39.4	3.0 100	85	5	60	1	-0.5	5	-2	-5	-5	2.74	-5
	-39.4m to 39.8m: pyrite rich bands, as above, 2-3cm apart, very regular banding in part,	48145	39.4 42.4	3.0 100	59	-5	59	-1	-0.5	5	-2	-5	-5	2.50	5
	-41.8m to 42.0m: very broken core - FRACTURE ZONE at 10 deg. core axis, rare quartz pyrite-chlorite coated fractures, recovery here at 80%,														
	-from 42.0m gradually less quartz over 0.5m to ...														
42.4	62.0 CHLORITE-SERICITE SCHIST: very pale grey-green, fine to medium grained, talcose,	48145 48147	42.4 45.4 45.4 48.4	3.0 100 3.0 100	59 108	-5 6	80 251	-1 -1	-0.5 -0.5	4 4	-2 -2	7 5	-5 -5	2.44 2.85	5 5

Interval	Description	Samp. ID	Sample Int. From To	Length (Metres)	% Rec.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
From To																
	moderately well developed foliation at 70 - 80 deg. core axis, minor fine to coarse crystalline pyrite in bands up to 3mm wide parallel to foliation,	48148	48.4 51.4	3.0	100	55	5	155	1	-0.5	5	-2	-5	-5	2.75	5
		48149	51.4 54.4	3.0	100	76	-5	45	-1	-0.5	5	-2	-5	-5	2.76	-5
		48150	54.4 57.4	3.0	100	85	-5	45	1	-0.5	5	-2	-5	-5	2.75	-5
	-rare white calcite-quartz veins parallel to foliation and up to 5cm wide, with inclusions of white pale green sericite,	48151	57.4 60.0	2.6	100	67	16	45	2	-0.5	5	14	13	-5	2.12	-5
	-from 58.5m: gradual increase in granoblastic medium to coarse grained quartz in schist,															
	-60.0m to 60.8m: very irregular white and minor rusty quartz vein, includes large fragments of "bleached" sericite schist,	48152	60.0 60.8	0.8	100	10	9	25	4	-0.5	1	-2	14	-5	0.96	-5
	-61.5m to 62.0m: FAULT ZONE - rusty, broken core of sericite schist,	48153	60.8 62.0	1.2	100	87	14	57	1	-0.5	5	-2	8	-5	2.38	-5
	-fault is contact at 80 deg. core axis, to ...															
62.0	64.2 QUARTZ-SERICITE SCHIST: pale green-grey, mottled white, fine to medium grained, moderately well developed foliation at 60 deg. core axis, granoblastic fine to medium grained quartz to 10% of rock,	48154	62.0 64.2	2.2	100	98	43	691	2	-0.5	6	-2	23	-5	2.72	10
	-63.7m to 64.2m: rusty weakly fractured pyrite rich band in QUARTZ-SERICITE SCHIST, pyrite along foliation to 5%,															
	...															
64.2	70.4 CHLDRITE-SERICITE SCHIST: very pale green-	48155	64.2 65.4	1.2	100	36	14	143	-1	-0.5	3	-2	6	-5	3.22	-5

Interval	Description	Sample ID	Sample Int. From To	Length & Rec. (Metres)	Cu ppa	Pb ppa	Zn ppa	Mo ppa	Ag ppa	Co ppa	Bi ppa	As ppa	Sb ppa	Fe %	Au ppb
75.8 To	calcite vein at 74.8m and 75.0m up to 1cm wide,														
	-gradational contact over several cm to ...														
75.8 To	78.4 CALCAREOUS-QUARTZ-CHLORITE SCHIST: dark green, light grey, mottled and banded, fine to coarse grained, gritty units show regular interbanding at 70 - 80 deg. core axis in bands up to 10 cm wide,	48160	76.8 78.4	1.6 100	9	-5	98	-1	-0.5	17	-2	-5	-5	4.44	-5
	-sharp contact at 65 deg. core axis to ...														
78.4 To	81.5 QUARTZITE: light brown, grey, very fine grained, dense, very broken, manganese stained core, FRACTURE ZONE in part,	48161	78.4 80.6	2.2 100	20	5	192	1	-0.5	17	-2	-5	-5	3.91	-5
	-interbands of CALCAREOUS CHLORITE SCHIST very common to 10% of rock,														
	-open manganese lined "vugs" very common parallel to foliation of schist bands - "leached" calcareous bands?,														
	-foliation is locally highly contorted to 0 deg. core axis,														
81.5 To	80.6 to 81.5m: CALCAREOUS CHLORITE SCHIST to 80% of rock,	48162	80.6 81.5	0.9 100	23	-5	151	-1	-0.5	14	-2	-5	-5	4.49	-5
	-sharp contact at 80 deg. core axis to ...														
81.5 To	88.0 FOLIATED HORNBLENDE GRANODIORITE: dyke?, dark grey, light grey, mottled fine to medium	48163	81.5 84.5	3.0 70	33	8	64	1	-0.5	14	-2	-5	-5	3.06	-5

Interval	Description	Sample ID	Sample Int. From To	Length (Metres)	% Rec.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
	of brown black, fine grained biotite in rock, banding at 50 deg. core axis, -93.6m to 94m: FAULT ZONE at 45 deg. core axis - gouge and quartz fragments of CHLORITE SCHIST, -fault is contact at 45 deg. core axis to ...															
94.0	110.4 BIOTITE-QUARTZ CHLORITE SCHIST: dark green, light green, mottled dark brown, black, fine to medium grained, biotite bands to 10% of rock and gradually increase to disseminated biotite to 20% of rock by 98.0m, hard dense rock, generally massive core, -disseminated fine grained pyrite to 0.5%, -101.3m: irregular pyrrhotite-pyrite-quartz-chlorite vein? at 45 deg. core axis, up to 10 cm wide, -104.3m to 108.2m: quartz veined, brecciated, QUARTZ BIOTITE CHLORITE SCHIST - irregular milky white quartz veins and masses completely destroy metamorphic texture of schist, silicified in part, late fine crystalline calcite coated fractures common at 0 - 20 deg. core axis, trace disseminated pyrite, -105.6m to 105.8m: very broken sheared core - FAULT ZONE, -107.0m to 108.2m: FAULT ZONE as above,	48167 48168 48169 48170	94.0 97.0 97.0 100.0 100.0 103.0 103.0 104.3	3.0 3.0 3.0 1.3	100 100 100 100	24 18 44 28	5 5 8 10	73 50 77 28	1 -1 1 1	-0.5 -0.5 -0.5 -0.5	16 16 16 11	-2 -2 -2 -2	-5 -5 -5 -5	-5 -5 -5 -5	3.70 3.75 3.40 2.32	-5 -5 -5 -5
		48171	104.3 107.3	3.0	90	11	12	48	4	-0.5	12	-2	-5	-5	2.62	-5
		48172	107.3 110.3	3.0	70	64	10	57	1	-0.5	19	-2	-5	-5	3.34	-5

Interval	Description	Sample ID	Sample Int. From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
143.0 to 143.3m	-143.0m to 143.3m: CALCAREOUS CHLORITE SCHIST with massive fine grained PYRRHOTITE bands to 4mm wide, pyrrhotite at 20%, pyrite at 5%, trace chalcocopyrite,															
143.3m to 144.7m	-143.3m to 144.7m: bands of fine grained pyrrhotite and pyrite common to 5% in BIDIITE CHLORITE SCHIST,															
145.0m to 146.0m	-145.0m to 146.0m: irregular, coarse crystalline white quartz vein, includes clasts of CHLORITE SCHIST, and irregular blebs and masses of pyrrhotite (1%) pyrite (0.5%) and trace chalcocopyrite,															
	-vein is contact at 80 deg. core axis to ...															
146.0 to 171.9	CHLORITE-SERICITE SCHIST: very pale green, grey, fine to medium grained, quartzose in part, well developed foliation at 65 - 75 deg. core axis, white quartz lenses up to 1cm wide common over 20cm bands, disseminated pyrite to 0.5%,	48187	146.0 149.0	3.0	100	104	13	249	2	-0.5	31	-2	-5	-5	5.23	-5
146.2m to 146.3m	pyrrhotite-pyrite interbands at 80 deg. core axis, with brown-black biotite stringers,															
146.8m to 147.2m	interband of white "speckled" CHLORITE SCHIST, trace disseminated pyrite, speckles are calcite filled vesicles? up to 20% of rock,	48188	149.0 152.0	3.0	100	98	27	159	1	-0.5	15	-2	-5	-5	3.49	-5
152.5m to 152.8m	very irregular quartz mass in brecciated SERICITE SCHIST, irregular	48189	152.0 155.0	3.0	100	150	17	114	1	-0.5	20	-2	-5	-5	3.75	-5
		48190	155.0 156.7	1.7	100	38	11	72	1	-0.5	21	-2	-5	-5	3.84	15

Interval	Description	Samp. ID	Sample Int. From To	Length (Metres)	% Rec.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
	2-5mm blebs of pyrrhotite to 1%,	48191	156.7 158.3	1.6	100	152	33	98	3	-0.5	38	-2	-5	-5	6.30	-5
	-156.7m to 158.3m: very irregular quartz mass and veining at 80 deg. core axis, irregular blebs and masses of pyrrhotite at 2%, pyrite at 1%, fragments of sericitic schist "bleached" and silicified in quartz,	48192	158.3 160.8	2.5	100	57	11	103	2	-0.5	29	-2	-5	-5	4.55	-5
	-160.1m: FAULT ZONE at 70 deg. core axis parallel to well developed foliation, crushed and broken core over 20cm,	48193	160.8 163.1	2.3	100	892	25	40	2	0.5	41	-2	17	-5	6.14	25
	-160.8m to 162.2m: very irregular fine grained pyrite and pyrrhotite bands at 75 deg. core axis along foliation, bands are up to 5mm wide, pyrite at 3%, pyrrhotite at 1%,	48194	163.1 164.0	0.9	100	623	34	60	4	-0.5	33	6	-5	-5	7.05	-5
	-163.1m to 164.0m: pyrrhotite and pyrite bands as above, along foliation schist,	48195	164.0 167.0	3.0	100	62	13	103	2	-0.5	24	-2	7	-5	3.70	5
	-164.0m to 171.9m: CHLORITE SERICITE SCHIST with minor narrow interbands of pyrrhotite and pyrite, quartzose in part, minor quartz veining, generally massive core with well developed foliation at 70 deg. core axis,	48196	167.0 170.0	3.0	100	66	14	88	2	-0.5	31	-2	-5	-5	5.23	-5
	-gradational interbanded contact at 75 deg. core axis over several cm to ...	48197	170.0 171.9	1.9	100	36	13	81	1	-0.5	18	-2	-5	-5	3.39	-5
171.9	178.2 ARGILLACEOUS MARBLE AND GRAPHITIC ARGILLITE: dark and light grey, interbanded on mm scale, with black graphitic argillite, "poker" chip type core along well developed foliation parallel to "bedding" at 70 - 80 deg. core axis, trace fine grained euhedral pyrite along graphitic argillite partings,	48198	171.9 174.9	3.0	100	24	19	70	-1	-0.5	9	-2	7	-5	2.49	-5
		48199	174.9 177.2	2.3	100	23	16	327	-1	-0.5	9	-2	5	-5	2.49	-5

Interval	Description	Sample ID	Sample Int.	Length	Z Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au
From	To		From	To	(Metres)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb
205.0	225.2	INTERBAND ARGILLACEOUS MARBLE AND GRAPHITIC PHYLLITE: dark grey and light bands on a scale, well developed foliation in phyllite parallel to banding in marble at 70 deg. core axis,	13537	205.0	207.5	23	10	46	-1	-0.5	20	-2	65	-5	3.06	-5
		-bands of marble up to 1m wide to 60% of rock,			2.5											
		-bands of schist up to 1m wide, to 35% of rock,														
		-minor interbands of CHLORITE-SERICITE SCHIST and black GRAPHITIC ARGILLITE,														
		-207.5m to 209.3m: interband of pyritic pale grey-green QUARTZ SERICITE SCHIST, fine to medium grained, well developed foliation at 60 deg. core axis, quartz bands and lenses to 30% of rock, disseminated and stringer pyrite to 2%,	13538	207.5	209.3	202	18	92	2	-0.5	33	-2	-5	-5	6.24	-5
			13539	209.3	212.7	244	9	78	1	-0.5	41	-2	-5	-5	6.97	-5
		-212.7m to 213.8m: interband of pyritic QUARTZ SERICITE SCHIST, as above,	13540	212.7	213.8	59	18	60	2	-0.5	17	-2	-5	-5	5.67	-5
		-from 215m: interbands of black GRAPHITIC ARGILLITE to 10% of rock, highly contorted laminae over 10 - 20cm,	13541	213.8	216.8	32	24	39	-1	-0.5	8	-2	-5	-5	2.03	-5
			13542	216.8	220.0	181	9	74	2	-0.5	32	-2	-5	-5	5.92	-5
		-218.0m: irregular white quartz veining, trace pyrite,														
		-220m to 220.9m: interband of pale green QUARTZ SERICITE SCHIST, fine grained, well developed foliation at 80 deg. core axis, minor irregular lenses of white quartz, disseminated and stringer pyrite to 0.5%,	13543	220.0	223.3	39	23	33	1	-0.5	13	-2	6	-5	2.57	-5

Interval	Description	Sample ID	Sample Int. From To	Length (Metres)	% Rec.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
225.2	-220.9m to 222.2m: brecciated, calcite veined, GRAPHITIC ARGILLITE and ABRILLACEOUS MARBLE, fine grained stringer pyrite to 0.25%, -223.3m to 225.2m: brecciated, quartz and calcite veined pyritic pale green QUARTZ SERICITE SCHIST, fault zone? at 60-80 deg. core axis, disseminated and stringer pyrite to 3%, -breccia zone is contact to ...	13544	223.3 225.2	1.9	100	113	40	165	2	-0.5	30	-2	-5	-5	5.81	-5
225.2	310.5 INTERBANDS GRAPHITIC ARGILLITE AND ARGILLACEOUS MARBLE: black, light grey interbands on ma scale, black argillite to 60% of rock, fine grained with stringer and scattered coarse crystalline pyrite to 1%, light and dark grey marble to 35% of rock, fine to medium grained, banding at 60 deg. core axis, minor white marble interbands, trace disseminated pyrite, -227.3m: white sericite-quartz calcite vein at 80 deg. core axis, with 1% fine to medium grained pyrite, -242.1m to 244.5m: interband of very pale grey-green very fine grained GRAPHITIC PHYLITE, trace disseminated pyrite, foliation at 70 deg. core axis, non-calcareous, -258.0m to 278.2m: increasing amounts of very black, PYRITIC GRAPHITIC ARGILLITE, pyrite as very large 1cm to a side scattered cubes along 70 deg. core axis foliation and as	13545 13546 13547 13548 13549 13550	225.2 228.2 228.2 231.2 231.2 234.2 234.2 237.2 237.2 240.2 240.2 242.1	3.0 3.0 3.0 3.0 3.0 1.9	100 100 100 100 100 100	94 51 64 51 23 40	22 24 18 68 28 26	53 32 42 88 37 41	1 1 1 4 1 1	-0.5 -0.5 -0.5 -0.5 -0.5 -0.5	21 11 16 15 6 10	-2 -2 -2 2 2 -2	-5 -5 -5 6 5 6	-5 -5 -5 -5 -5 -5	4.00 2.13 3.37 2.56 1.43 2.07	-5 -5 -5 10 5 -5
		59851 59852 59853 59854 59855	242.1 244.5 244.5 247.5 247.5 250.5 250.5 253.5 253.5 256.5	2.4 3.0 3.0 3.0 3.0	100 100 100 100 100	148 98 84 29 31	5 15 28 28 40	62 83 84 44 87	1 1 1 1 1	-0.5 -0.5 -0.5 -0.5 -0.5	39 23 22 8 9	-2 -2 -2 -2 2	12 14 11 -5 5	-5 -5 -5 -5 -5	7.18 4.58 4.37 1.79 2.05	-5 -5 -5 -5 -5
		59856 59857 59858	256.5 259.5 259.5 262.5 262.5 264.0	3.0 3.0 1.5	100 100 100	44 44 28	23 19 36	85 75 56	1 -1 1	-0.5 -0.5 -0.5	18 14 10	-2 -2 -2	5 -5 7	-5 -5 -5	3.37 3.33 2.68	-5 -5 -5

Interval From To	Description	Sample ID	Sample Int. From To	Length % Rec. (Metres)	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
	stringers to ZK of rock,														
	-foliation in argillite very contorted over 10-20cm wide "fault zones?", slickensides common at: 264.0m to 264.9m 266.2m to 267.0m 267.3m to 269.4m	59859 59860	264.0 267.0 267.0 269.4	3.0 100 2.4 100	51 53	19 41	65 171	2 2	-0.5 -0.5	18 16	-2 -2	-5 6	-5 -5	4.02 3.90	5 -5
	-"fault zones or "crush zones" with minor associated white quartz veins up to 3cm wide with pyrite, pyrrhotite blebs to 1%,	59861 59862	269.4 272.4 272.4 275.4	3.0 100 3.0 100	55 42	39 16	65 49	4 1	-0.5 -0.5	18 17	-2 -2	5 14	-5 -5	4.77 3.84	-5 5
	-275.2m to 275.6m: quartz veins in argillite, FAULT ZONE with broken crushed core, recovery down,														
	-278.2m to 287.0m: minor interbands of light grey, dark grey, ARGILLACEOUS MARBLE more common, banding at 70-80 deg. core axis,	59863 59864 59865	275.4 278.4 278.4 281.4 281.4 284.4	3.0 100 3.0 100 3.0 100	55 45 69	20 18 42	71 53 91	4 3 2	-0.5 -0.5 -0.5	17 14 21	-2 -2 -2	13 -5 -5	-5 -5 -5	4.23 3.47 4.30	-5 -5 75
	-282.2m: white quartz veining at 60-80 deg. core axis with minor pyrite, trace pyrrhotite,														
	-284.5m to 285m: FAULT ZONE, slickensides on graphitic argillite and interbanded marble,	59866	284.4 287.4	3.0 90	47	15	64	2	-0.5	15	-2	-5	-5	3.50	10
	-well developed banding on mm scale 20-50 deg. core axis - "crush zone",														
	-287.0 m GRAPHITIC ARGILLITE to 80% of rock, locally very highly contorted and "crinkle folded",	59867	287.4 290.4	3.0 95	23	18	57	2	-0.5	15	-2	10	-5	3.74	-5
	-287.5m to 291.1m: quartz veined and	59868	290.4 293.0	2.6 100	40	15	82	2	-0.5	15	-2	-5	-5	4.25	-5

Interval		Description	Sample ID		Length (Metres)	% Rec.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
From	To		From	To													
		locally quartz "flooded" graphitic argillite breccia and FALLT ZONE, at 0 to 80 deg. core axis, at 288.2m quartz supported argillite clasts, pyrite in clasts to 1%,	59869	293.0 296.0	3.0	100	45	17	95	1	-0.5	19	-2	-5	-5	4.37	-5
		-293.0m: banding more regular in argillite at 50 deg. core axis, minor interbands of marble on cm scale,															
		-294.1m to 294.2m: 5 to 10mm wide white quartz veining in argillite at 70 deg. core axis parallel to banding, trace pyrite along margins,	59870	296.0 299.0	3.0	100	56	39	126	2	-0.5	20	-2	-5	-5	4.66	-5
		-299.4m to 299.6m: white quartz vein at 80 deg. core axis, with scattered blebs of pyrite, trace blebs of red brown sphalerite and trace molybdenite along vein margins,															
		-299.6m to 302.1m: "crush" zone in GRAPHITIC ARGILLITE, pyrite to 1%,	59871	299.0 300.2	1.2	100	43	46	332	2	-0.5	16	-2	6	-5	3.65	5
		-302.8m to 303.6m: sharp contact to conformable pale green, fine grained pyritic CHLORITE-SERICITE SCHIST, disseminated and stringer very fine grained pyrite to 3%, moderately well developed foliation at 90 deg. core axis,	59872	300.2 302.8	2.6	100	62	11	76	3	-0.5	22	-2	5	-5	4.98	5
		-303.6m to 304.7m: minor interbands of pale grey, silver sheen, fine grained GRAPHITIC PHYLITE, foliation at 70-90 deg. core axis, disseminated and scattered pyrite to 1%,	59873	302.8 304.7	1.9	100	67	12	77	1	-0.5	25	-2	-5	-5	5.37	-5
		-307.5m to 308.8m: interband of pale green, fine grained, pyritic CHLORITE SERICITE	59874	304.7 307.5	2.8	100	48	21	103	3	-0.5	16	-2	11	-5	3.90	-5
			59875	307.5 308.8	1.3	100	69	26	91	-1	-0.5	24	-2	26	-5	5.49	20
			59876	308.8 310.5	1.7	100	52	36	80	1	-0.5	15	-2	-5	-5	3.84	20

Interval	Description	Sample ID	Sample Int. From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
310.5	SCHIST, disseminated, fine grained pyrite to 3%, -sharp contact at 85 deg. core axis to ...	59877	310.5 313.5	3.0	100	28	56	47	-1	-0.5	9	-2	10	-5	2.13	-5
313.5	ARGILLACEOUS MARBLE: light and dark grey, fine to coarse crystalline, banding well developed at 75-85 deg. core axis, on mm scale, minor white marble bands up to 2cm wide, minor interbands of black GRAPHITIC ARGILLITE up to 20cm wide, minor pyrite in marble to 0.5%, -318m to 325m: regular interbands of coarse, medium and very fine crystalline marble, -325m to 336.8m: increasing interbands of black GRAPHITIC ARGILLITE parallel to foliation at 70 deg. core axis, disseminated very fine grained pyrite to 1%, -335.0m to 335.2m: FAULT ZONE in very broken, slickensided GRAPHITIC ARGILLITE, brecciation and "crinkle" folded, -335.8m to 341.2m: "crust" zone of 80% GRAPHITIC ARGILLITE and 20% ARGILLACEOUS MARBLE, disseminated and stringer very fine grained pyrite to 1%, -341.2m to 346.0m: weakly silicified? fine grained MARBLE with 40cm wide interband of pale green SERICITE SCHIST, -346.0m to 353.3m: "crust" zone of 80%	59878	313.5 318.5	5.0	100	29	28	69	1	-0.5	10	-2	8	-5	2.29	-5
318.5		59879	318.5 321.5	3.0	100	16	32	28	1	-0.5	4	-2	8	-5	1.21	-5
321.5		59880	321.5 324.5	3.0	100	28	21	57	2	-0.5	11	-2	11	-5	2.61	-5
324.5		59881	324.5 327.5	3.0	100	30	16	49	-1	-0.5	10	-2	-5	-5	2.37	-5
327.5		59882	327.5 330.5	3.0	100	23	24	47	1	-0.5	8	-2	12	-5	2.04	-5
330.5		59883	330.5 333.5	3.0	100	32	20	51	1	-0.5	12	-2	-5	-5	2.91	10
333.5		59884	333.5 336.5	3.0	100	21	32	42	2	-0.5	9	-2	17	-5	2.34	-5
336.5		59885	336.5 339.5	3.0	100	56	41	68	2	-0.5	16	-2	18	-5	3.85	-5
339.5		59886	339.5 341.2	1.7	100	51	23	59	4	-0.5	17	-2	-5	-5	3.73	10
341.2		59887	341.2 344.2	3.0	100	24	24	47	1	-0.5	8	-2	-5	-5	2.16	-5
344.2		59888	344.2 346.0	1.8	100	39	16	63	2	-0.5	15	-2	7	-5	3.78	-5
346.0		59889	346.0 349.0	3.0	95	53	19	83	1	-0.5	17	-2	-5	-5	3.83	-5

Interval	Description	Samp. ID	Sample Int.	Length	% Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au
From	To		From To	(Metres)		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb
	GRAPHITIC ARGILLITE and 20% ARGILLACEDUS MARBLE, as above, marble bands much less broken and brecciated than argillite, slickensides at 0-30 deg. core axis,	59890	349.0 352.0	3.0	95	38	26	69	2	-0.5	15	-2	14	-5	3.35	-5
		59891	352.0 353.3	1.3	95	55	23	69	7	-0.5	21	-2	11	-5	4.30	5
	-353.1m to 353.3m: white quartz vein at 70 deg. core axis with blebs of pyrite and trace red brown sphalerite, trace fine grained molybdenite rosettes along vein margins,															
	-353.3m to 353.7m: pale green CHLORITE SERICITE SCHIST, disseminated and very fine grained stringer pyrite to 1%,	59892	353.3 355.3	2.0	100	40	18	75	1	-0.5	17	-2	-5	-5	3.85	10
	-355.1m to 355.3m: CHLORITE SERICITE SCHIST interband as above,															
	-357.8m: FAULT ZONE of quartz veined and gouge of GRAPHITIC ARGILLITE, from 358m MARBLE is more competent with less than 10% GRAPHITIC ARGILLITE,	59893	355.3 358.3	3.0	100	50	23	97	1	-0.5	19	-2	5	-5	4.22	5
		59894	358.3 361.0	2.7	100	24	33	20	1	-0.5	9	-2	7	-5	2.03	-5
	-361.0m to 364.5m: pale green, fine grained interband of CHLORITE SERICITE SCHIST pyrite to 1%, moderately well developed foliation at 80 deg. core axis,	59895	361.0 364.0	3.0	100	27	25	52	-1	-0.5	12	-2	8	-5	2.89	15
		59896	364.0 367.1	3.1	100	23	21	48	-1	-0.5	10	-2	7	-5	2.47	-5
	-366.7m to 367.1m: CHLORITE SERICITE SCHIST, as above, moderately calcareous,															
	-367.9m to 369.0m: CHLORITE SERICITE SCHIST, as above, moderately calcareous,	59897	367.1 369.8	2.7	100	51	19	88	1	-0.5	27	-2	7	-5	3.93	-5
		59898	369.8 371.6	1.8	100	47	26	78	1	-0.5	20	-2	-5	-5	3.87	-5
	-369.4m to 369.8m: CHLORITE SERICITE SCHIST, as above,															
	-from 371.5m: GRAPHITIC ARGILLITE is	59899	371.6 374.5	3.0	100	30	27	52	1	-0.5	10	-2	9	-5	2.73	-5

Interval	Description	Sample ID	Sample Int. From To	Length (Metres)	% Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au	
From To						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	
	interbanded with argillaceous marble to 30%, on mm scale, banding at 60 deg. core axis, with minor slickensides fault zones,	59900	374.6 377.6	3.0	100	38	22	70	1	-0.5	12	-2	-5	-5	3.09	5	
	-sharp contact at 70 deg. core axis to ...	59901	377.6 378.6	1.0	100	43	25	43	1	-0.5	13	-2	-5	-5	2.82	5	
378.6	385.4	CHLORITE-SERICITE PHYLITE: pale green, fine to medium grained, calcareous to very calcareous, moderately well developed foliation at 90 deg. core axis, trace disseminated very fine grained pyrite, massive core,	59902	378.6 381.6	3.0	100	7	5	75	1	-0.5	23	-2	-5	4.65	5	
		59903	381.6 384.6	3.0	100	6	-5	92	1	-0.5	21	-2	5	-5	5.45	5	
		59904	384.6 386.4	1.8	100	23	5	75	1	-0.5	20	-2	11	-5	4.37	-5	
	-gradational and interbanded contact over 1 meter at 70-90 deg. core axis to ...																
386.4	395.9	INTERBANDS GRAPHITIC ARGILLITE AND ARGILLACEOUS MARBLE: black, light grey, dark grey, fine to medium grained, well developed banding at 75-90 deg. core axis, marble to 60% of rock with trace disseminated pyrite, argillite 30% of rock, with 1% pyrite as scattered euhedral crystals and fine grained stringers, minor interbands of pale green CHLORITE-SERICITE PHYLITE with 1% disseminated very fine grained pyrite,	59905	386.4 389.4	3.0	100	40	14	59	1	-0.5	15	-2	6	-5	3.55	15
		59906	389.4 392.4	3.0	100	33	26	71	1	-0.5	16	-2	-5	-5	3.66	5	
		59907	392.4 395.9	3.5	100	25	31	47	1	-0.5	9	-2	8	-5	2.26	5	

-391.2m to 391.8m: interbands of pale green, fine grained CHLORITE-SERICITE PHYLITE, foliation at 70 deg. core axis, sharp upper contact and gradational; lower contact - BEDS RIGHT SIDE UP HERE?,

END OF HOLE at 395.9m (1299') at 1500 hours

Interval From To Description

February 16, 1968.

Samp. ID Sample Int. Length & Rec. (Metres)

Cu ppm Pb ppm Zn ppm Mo ppm Ag ppm Co ppm Bi ppm As ppm Sb ppm Fe % Au ppb

Interval To
From 114/5+60N
Co-ords: 114/5+60N
Azimuth: 180 deg.
Dip: -70 deg.
Elevation: 1160 m
Length: 305.4 m (1002')
Section: 11+00N
Purpose: Test co-incident geophysical and geochemical anomalies

Description
 Discovery Consultants
 Drill Log
 Dip tests: 260 m: Azimuth-misrun,
 Dip -65 deg.

Hole No.: 294-6
 Property: Scotch
 Location: Scotch 2
 Date St.: Feb 18 1988
 Date Fin: Feb 25 1988
 Logged by: Barry Kyba
 Date Logged: Feb 22 - 26 1988

Interval	To	From	Description	Sample Id	Interval	From	To	Length	Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au
From	To	From	To	From	To	From	To	(Metres)	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb
0.0	3.0	3.0	CASING — overburden, tricone bit.																	
3.0	15.0	3.0	QUARTZ-CHLORITE-SERICITE SCHIST: pale green, dark green, mottled and weakly banded, fine to medium grained, well developed foliation at 60 deg. core axis, minor disseminated medium grained euhedral pyrite, irregular white quartz veins? at 3 m up to 1cm wide,	59908	3.0	6.0	3.0	100	82	14	44	1	-0.5	6	-2	-5	-5	-5	3.26	5
		6.0		59909	6.0	9.0	3.0	100	10	8	31	-1	-0.5	5	-2	-5	-5	-5	2.14	5
		9.0		59910	9.0	12.0	3.0	100	-1	6	28	2	-0.5	5	-2	-5	-5	-5	1.95	-5
		12.0		59911	12.0	15.0	3.0	100	-1	5	28	-1	-0.5	4	-2	-5	-5	-5	1.91	-5

Interval	To	From	Description	Sample Id	Interval	From	To	Length	Rec.	Cu	Pb	Zn	Mo	Ag	Co	Bi	As	Sb	Fe	Au
From	To	From	To	From	To	From	To	(Metres)	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb
15.0	62.8	15.0	CHLORITE-SERICITE SCHIST: dark green, pale green, mottled, fine grained, weakly developed banding, well developed foliation at 70 deg. core axis, minor 10-20cm wide interbands of dark green QUARTZ-CHLORITE SERICITE SCHIST, -stringers of pyrite, pyrrhotite, with minor red brown sphalerite and trace chalcopyrite common along foliation at 18.0m to 20.3m and 22.0m to 23.2m,	59912	15.0	18.0	3.0	100	21	6	33	1	-0.5	6	-2	5	-5	-5	2.45	-5
		18.0		59913	18.0	20.3	2.3	100	105	39	119	-1	-0.5	6	-2	6	-5	-5	3.62	5
		20.3		59914	20.3	23.3	3.0	100	116	10	723	1	-0.5	4	-2	7	-5	-5	3.74	-5
		23.3		59915	23.3	26.3	3.0	100	95	47	1633	-1	-0.5	4	-2	5	-5	-5	2.74	-5

Interval From To	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
	-22.2m: FAULT ZONE in rusty broken SCHIST,	59916	26.3 29.3	3.0	100	110	12	496	1	-0.5	5	-2	-5	-5	2.88	-5
		59917	29.3 32.3	3.0	100	185	14	507	-1	-0.5	4	-2	-5	-5	3.43	15
	-23.9m, to 24.5m: quartz vein with trace irregular blebs of pyrite, pyrrhotite, red brown sphalerite and chalcocopyrite,	59918	32.3 35.3	3.0	100	52	13	105	1	-0.5	4	-2	-5	-5	2.70	-5
		59919	35.3 38.3	3.0	100	101	9	36	1	-0.5	4	-2	-5	-5	2.21	-5
		59920	38.3 41.3	3.0	100	32	85	72	1	-0.5	5	-2	-5	-5	2.05	-5
	-25.5m to 26.0m: quartz vein as above,	59921	41.3 44.3	3.0	100	13	11	60	1	-0.5	5	-2	-5	-5	2.25	-5
	-38.8m to 39.2m: quartz vein as above, irregular pyrrhotite bleb to 3cm across includes 1 to 2mm blebs of chalcocopyrite,	59922	44.3 47.3	3.0	100	25	8	39	1	-0.5	5	-2	-5	-5	2.13	-5
		59923	47.3 50.3	3.0	100	15	5	37	1	-0.5	4	-2	-5	-5	1.91	-5
		59924	50.3 51.8	1.5	100	96	9	51	1	-0.5	5	-2	-5	-5	2.69	-5
	-from 51.8m to 55.4m: interbands of dark green CHLORITE SCHIST common to 20 cm wide and 20% of rock, 2mm wide stringers of pyrite, pyrrhotite with trace sphalerite and chalcocopyrite to 1%, locally with very irregular banding and "crinkled" folded,	59925	51.8 54.8	3.0	100	235	13	137	1	-0.5	8	-2	-5	-5	3.84	10
		59926	54.8 55.4	0.6	100	65	6	92	1	-0.5	7	-2	-5	-5	4.05	-5
		59927	55.4 58.4	3.0	100	222	13	96	1	-0.5	7	-2	-5	-5	3.47	10
		59928	58.4 61.4	3.0	100	58	9	108	2	-0.5	5	-2	-5	-5	2.52	-5
	-gradational contact, interbanded contact over 2m to	59929	61.4 62.8	1.4	100	11	5	45	3	-0.5	4	-2	-5	-5	1.89	-5
62.8	96.3 CALCAREOUS SERICITE-CHLORITE SCHIST: dark green, pale green, mottled light grey, fine to very coarse grained bands at 70-80 deg. core axis, trace disseminated pyrite, rare pyrite stringers,	59930	62.8 65.8	3.0	100	108	7	147	1	-0.5	21	-2	-5	-5	4.56	-5
		59931	65.8 68.8	3.0	100	12	-5	124	-1	-0.5	23	-2	-5	-5	3.94	-5
		59932	68.8 71.8	3.0	100	134	7	282	-1	-0.5	36	-2	-5	-5	6.30	-5
		59933	71.8 74.8	3.0	100	44	-5	63	-1	-0.5	26	-2	-5	-5	5.24	-5
	-65.7m to 70.0m: dark green and mottled light grey, very coarse grained, weakly developed foliation at 70 deg. core axis, rare pyrite stringers, trace disseminated pyrite,	59934	74.8 77.8	3.0	100	10	-5	61	-1	-0.5	26	-2	-5	-5	4.47	-5
		59935	77.8 80.8	3.0	100	104	-5	61	-1	-0.5	20	-2	-5	-5	4.91	10
		59936	80.8 83.8	3.0	100	60	-5	64	-1	-0.5	26	-2	-5	-5	4.82	-5
		59937	83.8 86.8	3.0	100	144	-5	202	15	-0.5	23	-2	-5	-5	4.19	5
		59938	86.8 90.3	3.5	100	61	5	54	-1	-0.5	19	-2	-5	-5	4.03	-5
	-90.3m to 91.5m: FAULT ZONE of limonite	59939	90.3 93.3	3.0	100	66	7	43	1	-0.5	14	-2	-5	-5	3.13	-5

D e s c r i p t i o n

Interval To From

filled fractured SERICITE SCHIST/CHLORITE SCHIST, very broken core at 0 - 60 deg. core axis ,

-from 80m: interbands of pale green fine grained CHLORITE SCHIST common to 10% of rock and up to 20cm wide, foliation at 70 deg. core axis , disseminated and stringer, fine grained pyrite, euhedral in part to 1%,

-from 94m: irregular stringers and masses of coarse crystalline brown black biotite to 5% of rock along foliation at 75 deg. core axis ,

-gradational contact over 1m to

108.2 BIDIITE CHLORITE SCHIST: dark green, mottled dark brown, light green, fine to medium grained, well developed foliation at 65-70 deg. core axis , biotite to 20% of rock, trace disseminated fine grained pyrite,

-97.1m to 97.9m: white coarse crystalline quartz vein at 20 deg. core axis , stringer zone to 98.1m with minor pyrite, pyrrhotite along 1cm wide quartz vein at 70 deg. core axis ,

-99.4m to 100.1m: interband of white, light grey, QUARTZ SERICITE SCHIST, fine to medium grained, trace disseminated pyrite,

-102.7m to 103.0m: interband of PYRRHOTITE-PYRITE-SPHALERITE at 70-90 deg. core axis , in dark green CHLORITE SCHIST, pyrrhotite at 5%, pyrite at 2%, sphalerite at

Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
59940	93.3 96.3	3.0	100	11	5	66	1	-0.5	16	-2	-5	-5	3.09	-5
59941	95.3 99.4	3.1	100	21	23	100	2	-0.5	24	-2	-5	-5	3.18	5
59942	99.4 100.1	0.7	100	16	7	69	1	-0.5	5	2	-5	-5	1.61	-5
59943	100.1 103.1	3.0	100	80	140	908	5	-0.5	26	-2	-5	-5	3.85	5

Interval	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
108.2	-interbanded gradational contact at 70 deg. core axis over several cm to															
108.2	118.0 QUARTZ-CHLORITE-SERICITE SCHIST: very pale green, light green, mottled white and dark green, fine to medium grained, well developed foliation at 60-70 deg. core axis, white quartz as irregular bands and "knots" to 1cm wide along foliation and up to 10% of rock, trace disseminated pyrite, rare stringer pyrite, massive core,	59947 59948	108.2 111.2 111.2 113.4	3.0 2.2	100 100	13 31	18 -5	48 54	1 -1	-0.5 -0.5	20 21	-2 -2	-5 -5	-5 -5	3.79 3.89	-5 -5
	-113.4m to 115.3m: interbands of BIOTITE-CHLORITE-SERICITE SCHIST fine to medium grained, up to 30cm wide, trace pyrite, from 115m to 115.3m, irregular "fragments" along foliation up to 5mm across of SERICITE SCHIST,	59949	113.4 115.3	1.9	100	-1	-5	2777	1	-0.5	25	-2	-5	-5	4.49	-5
	-115.3m to 117.4m: pale grey, white QUARTZ-SERICITE SCHIST very fine to fine grained, as above,	59950	115.3 117.4	2.1	100	11	-5	35	1	-0.5	5	-2	-5	-5	1.62	-5
	-117.4m to 118.0m: "fragments" of	59951	117.4 118.0	0.5	100	184	-5	43	1	-0.5	55	-2	5	-5	3.12	-5

1%,

-from 103.0m: narrow interbands and irregular wisps of very pale apple green CALC-SILICATE minerals in dark green fine grained CHLORITE SCHIST, weakly calcareous,

-105.8m to 106.5m: narrow interbands to 5cm wide of pyrrhotite-pyrite with trace sphalerite along foliation at 60 deg. core axis, pyrrhotite very fine grained to 3%, pyrite 1%,

-interbanded gradational contact at 70 deg. core axis over several cm to

108.2 118.0 QUARTZ-CHLORITE-SERICITE SCHIST: very pale green, light green, mottled white and dark green, fine to medium grained, well developed foliation at 60-70 deg. core axis, white quartz as irregular bands and "knots" to 1cm wide along foliation and up to 10% of rock, trace disseminated pyrite, rare stringer pyrite, massive core,

-113.4m to 115.3m: interbands of BIOTITE-CHLORITE-SERICITE SCHIST fine to medium grained, up to 30cm wide, trace pyrite, from 115m to 115.3m, irregular "fragments" along foliation up to 5mm across of SERICITE SCHIST,

-115.3m to 117.4m: pale grey, white QUARTZ-SERICITE SCHIST very fine to fine grained, as above,

-117.4m to 118.0m: "fragments" of

Interval From To	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
118.0	CHLORITE SCHIST and QUARTZ CHLORITE SERICITE SCHIST mixed in coarse fragmental interband, trace pyrite, coarse crystalline (2mm long) pyroxene porphyroblasts to 2% along foliation, -sharp contact at 70 deg. core axis to	59952	118.0 121.5	3.5	100	17	-5	10	4	-0.5	16	-2	7	-5	1.14	10
121.5	CHLORITE-CALC-SILICATE SKARN: dark and light green, mottled and very weakly banded, fine to very fine grained, hard dense rock, weakly calcareous, trace disseminated pyrite, -sharp irregular contact 90 deg. core axis to	59953 59954 59955 59956 59957	121.5 124.5 124.5 127.5 127.5 130.5 130.5 133.5 133.5 135.8	3.0 3.0 3.0 3.0 2.3	100 100 100 100 100	39 38 104 57 50	-5 -5 6 5 -5	19 35 10 12 16	1 3 6 2 2	-0.5 -0.5 -0.5 -0.5 -0.5	25 19 27 22 28	-2 -2 -2 -2 -2	-5 -5 5 6 -5	-5 -5 -5 -5 -5	2.28 3.01 1.95 1.80 2.68	-5 -5 -5 -5 -5
140.9	"MIXED" BIOTITE QUARTZ CHLORITE SCHIST AND CHLORITE CALC-SILICATE SKARN: mottled, dark green and brown, fine to medium grained, very irregular banding at 60-70 deg. core axis, stringers of fine grained pyrrhotite to 1%, trace pyrite, very rare chalcopyrite?, -discontinuous irregular bands of white QUARTZ SERICITE SCHIST to 2% of rock, -125.7m to 126.0m: irregular white, rusty vuggy, quartz vein, barren, -135.8m to 137.6m: interband? of dark green-brown BIOTITE-SCHLORITE SCHIST, very fine to medium grained, biotite to 30% of rock, well developed foliation at 60 deg. core axis, gradational contacts to "mixed" zone, -139.6m to 140.9m: interbanded dark green CHLORITE SCHIST and BIOTITE CHLORITE	59958 59959	135.8 137.6 137.6 139.6	1.8 2.0	100 100	107 173	-5 7	37 31	1 1	-0.5 -0.5	38 21	-2 -2	-5 -5	-5 -5	5.57 4.73	-5 5
140.9	interbanded dark green CHLORITE SCHIST and BIOTITE CHLORITE	59960	139.6 140.9	1.3	100	+20000	240	791	1	17.2	64	-2	-5	-5	+10.00	170

2.42% Cu

59960 assay

Interval From	Interval To	Sample Id	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
D e s c r i p t i o n															
		SCHIST with stringers and irregular wisps of pyrrhotite to 5%, chalcopyrite to 1%, trace pyrite and sphalerite, "crinkle" folded in part - disrupted zone as above,													
		-140.4m to 140.6m: white quartz vein with massive bleb of chalcopyrite to 5cm across, with pyrrhotite, pyrite and red brown sphalerite, pyrrhotite along chalcopyrite margins and as blebs with chalcopyrite mass, quartz vein at 90 deg. core axis, parallel to foliation,													
		-sharp contact at 75 deg. core axis, to													
140.9	157.0	59961	140.9	143.9	117	12	131	-1	-0.5	51	-2	-5	-5	6.18	-5
		59962	143.9	146.9	51	21	131	-1	-0.5	31	-2	-5	-5	5.04	-5
		59963	146.9	149.9	29	13	119	1	-0.5	19	-2	-5	-5	3.51	-5
		59964	149.9	152.9	390	9	92	1	-0.5	42	-2	-5	-5	5.31	-5
		59965	152.9	155.9	33	5	137	-1	-0.5	27	-2	-5	-5	4.31	-5
		59966	155.9	157.0	274	16	400	4	-0.5	56	-2	-5	-5	5.24	-5

-147.8m to 150.4m: well developed lenses of white quartz to 1cm long, 5mm wide along foliation in QUARTZ-SERICITE SCHIST, foliation at 55 deg. core axis, stringers of medium grained brown biotite common to 3% of rock,

-150.4m to 150.8m: INTERBANDED PYRRHOTITE CHLORITE SCHIST and SERICITE SCHIST, pyrrhotite very fine grained to 5%, irregular blebs and stringers of chalcopyrite to 0.25%,

-interbanded gradational contact over several cm at 60 deg. core axis to

Interval	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
157.0	158.4 QUARTZ-CHLORITE PHYLLITE: light grey, dark grey-green mottled, fine to medium grained, well developed foliation at 60 deg. core axis , disseminated pyrrhotite to 1%, -157.0m to 157.2m: brecciated phyllite with drusy crystalline white quartz veining and disseminated fine grained bright yellow pyrite to 5%, -brecciated phyllite; quartz veined contact at 50 deg. core axis to	59967	157.0 158.4	1.4	100	139	44	442	1	-0.5	16	-2	-5	-5	4.78	-5
158.4	165.9 CHLORITE-QUARTZ-SERICITE SCHIST: pale green, light grey banded, fine to medium grained, well developed banding on mm scale at 70-80 deg. core axis , stringer fine grained pyrrhotite to 1%, -160.1m to 160.5m: quartz veining in schist at 90-0 deg. core axis , up to 4cm wide with sericite inclusions, rare pyrrhotite, pyrite and chalcopyrite, -163.1m: broken core - FRACTURE ZONE at 30 deg. core axis , -164.0m to 165.0m: very broken core, FRACTURE ZONE AT 0 - 30 deg. core axis , -sharp contact at 60 deg. core axis to	59968	158.4 161.4	3.0	100	171	18	385	1	-0.5	23	-2	-5	-5	5.67	20
165.9	170.9 INTERBANDS CHLORITE PHYLLITE and QUARTZ CHLORITE-SERICITE SCHIST: light green and light grey bands on cm scale at 60-90 deg.	59970	163.1 165.9	2.8	100	37	20	326	1	-0.5	21	-2	18	-5	3.75	15
165.9	170.9 INTERBANDS CHLORITE PHYLLITE and QUARTZ CHLORITE-SERICITE SCHIST: light green and light grey bands on cm scale at 60-90 deg.	59971	165.9 166.6	0.7	100	61	26	461	1	-0.5	21	-2	-5	-5	5.26	-5

Interval		Sample Id	Interval		Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
From	To		From	To													
D e s c r i p t i o n																	
core axis, fine to medium grained, well developed foliation parallel to banding,																	
-166.6m to 170.9m: zone of interbanded pyrrhotite-pyrite stringers and masses up to 5cm wide, pyrrhotite fine grained to 3%, pyrite with pyrrhotite, fine grained, dark yellow to 1%,																	
-169.1m to 169.3m: QUARTZ-SERICITE SCHIST band with 10% disseminated and stringer pale yellow fine grained pyrite, in chlorite rich bands, pyrrhotite is greater than pyrite,																	
-169.9m to 170.9m: PYRRHOTITE-QUARTZ-SERICITE SCHIST - massive, fine to medium grained, pyrrhotite to 20% of rock, granoblastic quartz in part,																	
-sulphide band above has interbanded gradational lower contact at 90 deg. core axis over several cm to																	
170.9	174.5	59974	170.9	173.9	3.0	100	51	19	320	1	0.5	23	-2	5	-5	4.09	15
		59975	173.9	174.5	0.6	100	46	5	98	1	-0.5	26	-2	7	-5	4.00	15
-interbanded gradational contact over several cm at 60 deg. core axis to																	
174.5	179.3	59976	174.5	177.5	3.0	100	47	119	399	1	-0.5	24	-2	20	-5	4.24	10
		59977	177.5	179.3	1.8	100	30	400	380	1	-0.5	11	-2	-5	-5	3.11	10
INTERBANDDED GRAPHITIC PHYLLITE AND CHLORITE-QUARTZ SERICITE SCHIST: light green and dark grey-black interbands on 10cm scale, fine grained phyllite to 30% of interval with																	

Interval From To	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb	
179.3	"diagenetic" euhedral pyrite cube to 0.5%, schist to 70% or rock with 1% pyrrhotite/pyrite stringers, -this "mix" zone is contact to	59978 59979 59980	179.3 182.3 182.3 185.3 185.3 186.7	3.0 3.0 1.4	100 100 100	28 15 15	91 44 17	510 83 53	1 -1 -1	-0.5 -0.5 -0.5	12 9 10	-2 -2 -2	6 10 10	-5 -5 -5	2.98 2.22 2.30	5 10 5	
179.4m to 180.4m	FAULT ZONE, crushed phyllite at 60 to 20 deg. core axis ,																
181.0m to 186.0m	very broken core, "poker chip" phyllite,																
186.7m to 188.5m	interbands of pale green CHLORITE-SERICITE SCHIST, stringer fine grained pyrite to 0.5%,	59981	186.7 188.5	1.8	100	38	-5	97	1	-0.5	19	-2	-5	-5	4.23	10	
188.5m to 198.2m	"gritty" interbands to 30% of phyllite; mottled light grey - dark grey core, on mm scale, trace disseminated fine grained pyrite, banding regular at 60 deg. core axis ,	59982 59983 59984 59985	188.5 191.5 191.5 194.5 194.5 197.5 197.5 198.2	3.0 3.0 3.0 0.7	100 50 100 100	27 18 19 31	19 20 21 12	54 45 47 57	-1 -1 -1 -1	-0.5 -0.5 -0.5 -0.5	11 9 10 12	-2 -2 -2 -2	5 12 6 -5	-5 -5 -5 -5	2.56 2.33 2.47 2.75	-5 -5 5 5	
190.8m to 193.5m	ground core - core missing - recovery at 40% - error in blocking?																
198.2	-sharp contact at 70 deg. core axis to																
198.2	INTERBAND CALCAREOUS ARGILLITE AND GRAPHITIC PHYLITE: dark grey, black, interbands on mm scale, calcareous argillite grades to ARGILLACEOUS MARBLE in part, fine to medium grained, "gritty" bands common in phyllite,	59986	198.2 201.0	2.8	90	22	13	57	-1	-0.5	13	-2	9	-5	2.47	10	

Interval From To	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
	graphite, crushed broken, poor recovery, fault at 40 deg. core axis ?															
	-217.6m to 217.9m: ground core FAULT ZONE - recovery at 80%,															
	-from 221.0m: MARBLE to 60% of interval, graphite to 40%, banding at 60 deg. core axis															
	-230.2m to 232.5m: graphitic argillite to 80% of interval, gouged, fractured, broken, polished slickensides common, FAULT ZONE? at 30-60 deg. core axis, banding in competent fine crystalline marble at 60 deg. core axis,	59998 59999	229.5 232.5 232.5 235.5	3.0 3.0	100 100	27 17	32 33	42 52	-1 -1	-0.5 -0.5	7 6	-2 -2	-5 5	-5 -5	1.83 1.64	-5 -5
	-237.9m to 238.2m: interband of very pale green CALCAREOUS CHLORITE-SERICITE PHYLITE, fine grained, massive, banding at 80 deg. core axis, disseminated and stringer pyrite to 1%,	60000 60001	235.5 238.5 238.5 241.5	3.0 3.0	100 100	22 38	33 24	47 66	1 -1	-0.5 -0.5	9 13	-2 -2	-5 -5	-5 -5	2.29 3.02	-5 -5
	-242.8m to 243m: CALCAREOUS CHLORITE-SERICITE PHYLITE as above,	60002	241.5 244.5	3.0	100	35	25	41	-1	-0.5	12	-2	8	-5	2.88	-5
	-from 245.3m to 245.9m: GRAPHITIC ARGILLITE/PHYLITE to 80% of interval, well developed banding at 30'A, "crinkle" folded in part at 80 deg. core axis,	58151	244.5 247.5	3.0	100	38	34	70	3	-0.5	13	-2	13	-5	3.38	-5
	-from 248.5m to 249.0m: FAULT ZONE, crushed, gouge, graphite soot, recovery at 60%,	58152 58153	247.5 250.5 250.5 251.8	3.0 1.3	70 90	38 20	44 46	75 55	3 2	-0.5 -0.5	13 7	-2 -2	30 12	-5 -5	3.28 2.13	150 170
	-251.8m to 260.8m: "crackle" zone of brecciated marble and graphitic argillite, medium crystalline white calcite matrix,	58154 58155 58156	251.8 254.8 254.8 257.8 257.8 260.8	3.0 3.0 3.0	90 100 80	45 39 46	23 17 17	71 70 59	1 2 3	-0.5 -0.5 -0.5	16 16 16	-2 -2 -2	8 -5 10	-5 -5 -5	3.65 3.80 3.86	10 35 -5

Interval To	Interval From	Description	Sample Id	Interval From	Interval To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb	
		stringer and disseminated pyrite to 1%, marble bands up to 20cm wide more competent and show well developed breccia texture, rotated, angular fragments, graphite smeared and abundant polished faces,																	
		-from 260.8m: banding of MARBLE and GRAPHITIC ARGILLITE/PHYLLITE more regular at 60 deg. core axis, graphite to 60%, marble to 40% of interval, graphite locally very contorted, stringer and disseminated pyrite to 1%, slickensides very common,	58157	260.8	263.8	3.0	100	53	24	53	2	-0.5	15	-2	5	-5	3.18	15	
			58158	263.8	266.8	3.0	70	53	18	53	3	-0.5	14	-2	5	-5	3.88	-5	
		-264.0m to 266.4m: FAULT ZONE, crushed, very broken, gouged slickensided graphitic phyllite, minor quartz veining at 30 deg. core axis,	58159	266.8	269.8	3.0	90	47	31	102	3	-0.5	17	-2	10	-5	4.10	10	
		-from 266.4m to 268.8m: banding at 30 deg. core axis,																	
		-268.8m to 270.3m: banding at 40-60 deg. core axis, core becoming less broken, increasing MARBLE bands to 50% of interval,	58160	269.8	270.5	0.8	80	58	35	99	1	-0.5	21	-2	21	-5	5.30	-5	
		-270.3m to 270.6m: FAULT ZONE, ground, slickensided GRAPHITIC ARGILLITE, recovery at 30%,																	
		-270.6m to 277.8m: "crackle" zone, of MARBLE and GRAPHITIC ARGILLITE, stringer and disseminated pyrite to 1%,	58161	270.6	273.1	2.5	100	35	38	96	3	-0.5	12	-2	14	-5	3.40	15	
			58162	273.1	274.0	0.9	100	79	41	75	2	-0.5	16	-2	27	-5	4.21	-5	
		-274.0m to 276.1m: brecciated, quartz veined pyritic GRAPHITIC ARGILLITE within "crackle" zone, white quartz vein at 0 to 30 deg. core axis up to 4cm wide to 40% of	58163	274.0	276.1	2.1	95	44	96	122	1	-0.5	18	-2	86	-5	5.37	15	
			58164	276.1	277.8	1.7	100	45	18	67	2	-0.5	16	-2	13	-5	4.23	10	

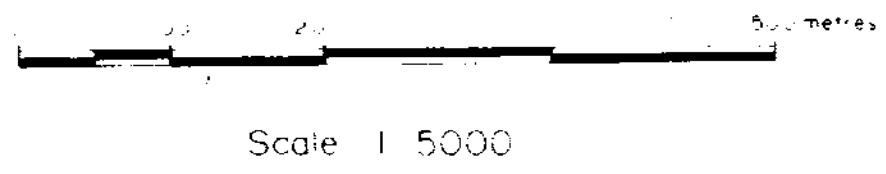
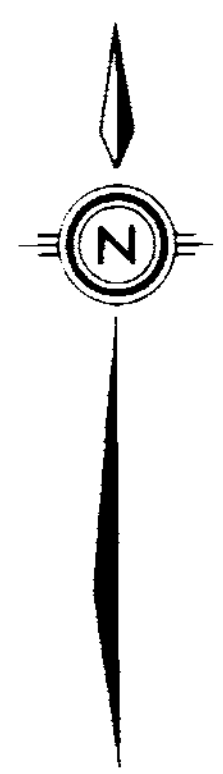
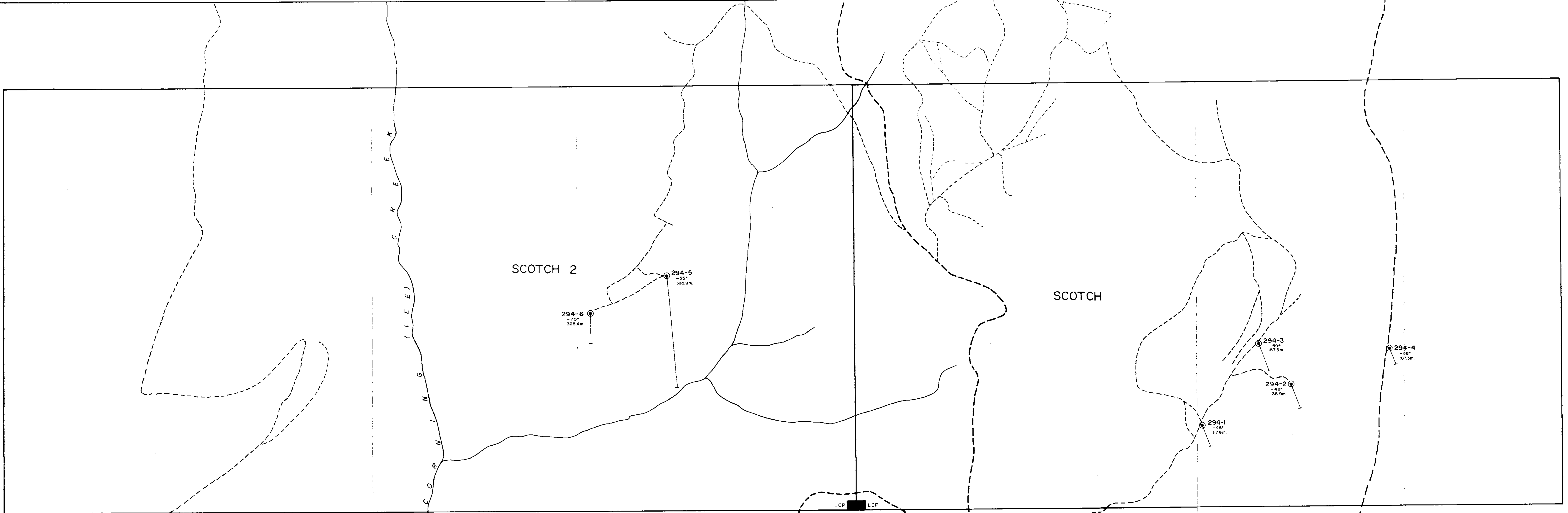
Interval To From	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
	interval, pyrite disseminated and as stringers to 1cm wide at 0 to 10 deg. core axis, pyrite to 3% of interval,															
	-277.8m to 285.5m: marble to 80% of interval, more competent less broken core, regular banding at 50 -60 deg. core axis, trace disseminated pyrite,	58165	277.8 280.8	3.0	100	22	46	229	1	-0.5	7	-2	8	-5	1.58	-5
		58166	280.8 283.8	3.0	100	31	21	39	1	-0.5	11	-2	7	-5	2.37	-5
		58167	283.8 286.3	2.5	100	20	29	33	1	-0.5	7	-2	10	-5	1.47	-5
	-fault slip contact at 20 deg. core axis to															
286.3	290.6 DYKE: dark brown-grey, fine to medium grained, 1% disseminated chloritized hornblend(?) laths and white feldspar laths, calcareous matrix, well fractured, broken core, with calcite lined fractures at 0 to 30 deg. core axis, trace pyrite in fractures,	58168	286.3 288.3	2.0	100	32	10	53	2	-0.5	27	-2	-5	-5	4.49	-5
		58169	288.3 290.6	2.3	100	31	24	75	1	-0.5	28	-2	-5	-5	4.51	-5
	-sharp faulted contact at 80 deg. core axis to															
290.6	305.4 INTERBANDIED GRAPHITIC ARGILLITE/PHYLLITE and ARGILLACEOUS MARBLE: marble dark grey, light grey mottled and banded, fine to medium crystalline, to 80% of interval, banding at 70 deg. core axis,	58170	290.6 293.6	3.0	100	25	27	46	1	-0.5	9	-2	9	-5	2.06	10
	-minor disseminated pyrite to 0.5%, graphitic interbands on mm scale to 20% of interval, pyrite to 0.5%,															
	-from 292.6m to 301.2m graphitic argillite to 60% of interval, with 1% stringer and disseminated pyrite, locally very "crinkie" folded,	58171	293.6 296.6	3.0	100	35	233	359	2	-0.5	13	-2	17	-5	3.27	5
		58172	296.6 299.6	3.0	100	51	16	87	2	-0.5	17	-2	5	-5	4.06	5
		58173	299.6 302.6	3.0	100	35	23	95	2	-0.5	13	-2	-5	-5	3.35	5
		58174	302.6 303.9	1.3	100	45	79	84	1	-0.5	17	-2	18	-5	3.60	5

Interval	Description	Sample Id	Interval From To	Length (Metres)	Rec. %	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Co ppm	Bi ppm	As ppm	Sb ppm	Fe %	Au ppb
	-301.2m to 301.6m: interband of pale green, fine grained, CHLORITE SERICITE PHYLITE, pyrite to 0.5%,	58175	303.9 305.1	1.2	100	59	1143	6175	1	1.1	17	-2	11	-5	4.41	15
	-303.9m to 305.1m: interband of pale green, fine grained, CHLORITE SERICITE PHYLITE,															
	-305.0m to 305.1m: (lower interbanded contact of above), very fine grained, red brown sphalerite and galena with minor pyrite along banding in fine grained MARBLE, as sphalerite to 0.5%, galena to 0.25%, sulphides stringers along, white MARBLE interbands and along ARGILLACEOUS MARBLE interbands up to 3mm wide, banding at 20 deg. core axis,															
	-305.1m to 305.4m: (End of Hole) ARGILLACEOUS MARBLE with trace disseminated pyrite, banding at 20 deg. core axis,	59529	305.1 305.4	0.3	100	85	77	229	1	-0.5	17	-2	-5	-5	4.12	10

END OF HOLE at 305.4m (1002')

at 1545 hour, February 25, 1988.

A + ' or ' - ' symbol for any geochem value refers to a result greater or less than detection limit respectively.



GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,643

ANTIOCH RESOURCES INC.
BRICAN RESOURCES LTD.
SCOTCH PROPERTY
DRILL HOLE LOCATION MAP

Date	JULY/88	Scale	1:5000
Project	294	N.T.S.	R2 - 5, B2, 4
Figure	2	Mining Division	KAM/UDPS