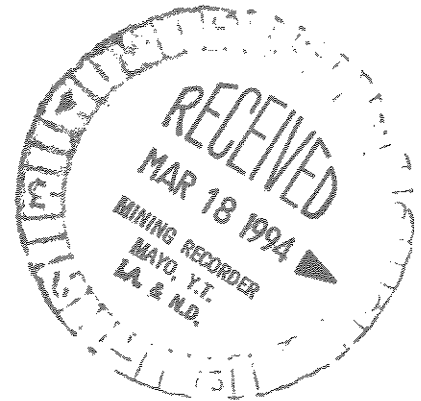
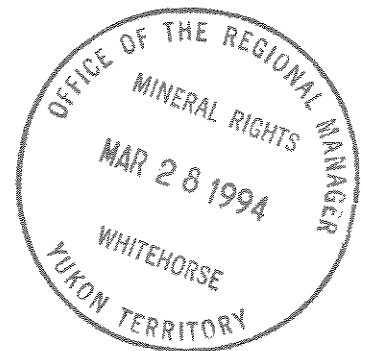


HART RIVER PROJECT
MAYO MINING DISTRICT, YUKON
N.T.S. 116A/10



DIAMOND DRILL REPORT FOR CLAIMS:

- Mark 1 - YO 6283
- Mark 3 - YO 6285
- Mark 4 - YO 6286
- Mark 12 - YO 6469
- Mark 13 - YO 6470
- Mark 14 - YO 6471
- Mark 19 - YO 6476
- Mark 20 - YO 6477
- Core 1 - YA 77560
- Core 2 - YA 77561
- Core 3 - YA 77562



For period August 9 - September 18, 1993

ED HUNTER
INCO EXPLORATION AND TECHNICAL SERVICES INC.
FEBRUARY, 1994

093186

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INTRODUCTION

Inco Ltd. (Inco) staked 40 ARM claims in November 1992 to cover favourable stratigraphy around Calypso Developments Ltd. (Calypso) Mark and Core claims which host the Mark deposit. On January 2, 1993, Inco and Calypso entered into an agreement which grants Inco an option to purchase the 11 Mark and Core claims. This report refers specifically to the diamond drilling conducted on the 11 Mark and Core claims. In the summer of 1993, Inco conducted electromagnetic and magnetic surveys, surface mapping and sampling, and a limited diamond drill program. Four additional claims were staked in summer 1993.

LOCATION AND ACCESS

The Hart River property is located at latitude 64 38'N and longitude 136 51' W on Mark Creek, a northerly flowing tributary of the Hart River, 140 km northeast of Dawson City and 120 km northwest of Mayo.

The property is accessible by small fixed wing aircraft to a gravel airstrip with a maximum useable length of 500 m. In 1993, the airstrip was successfully used by a Cessna 206, a Single Otter and an Islander. Takeoff payload is limited to about half of their normal limit.

Adequate water is available in Mark and Reinke creeks for drilling and mining purposes.

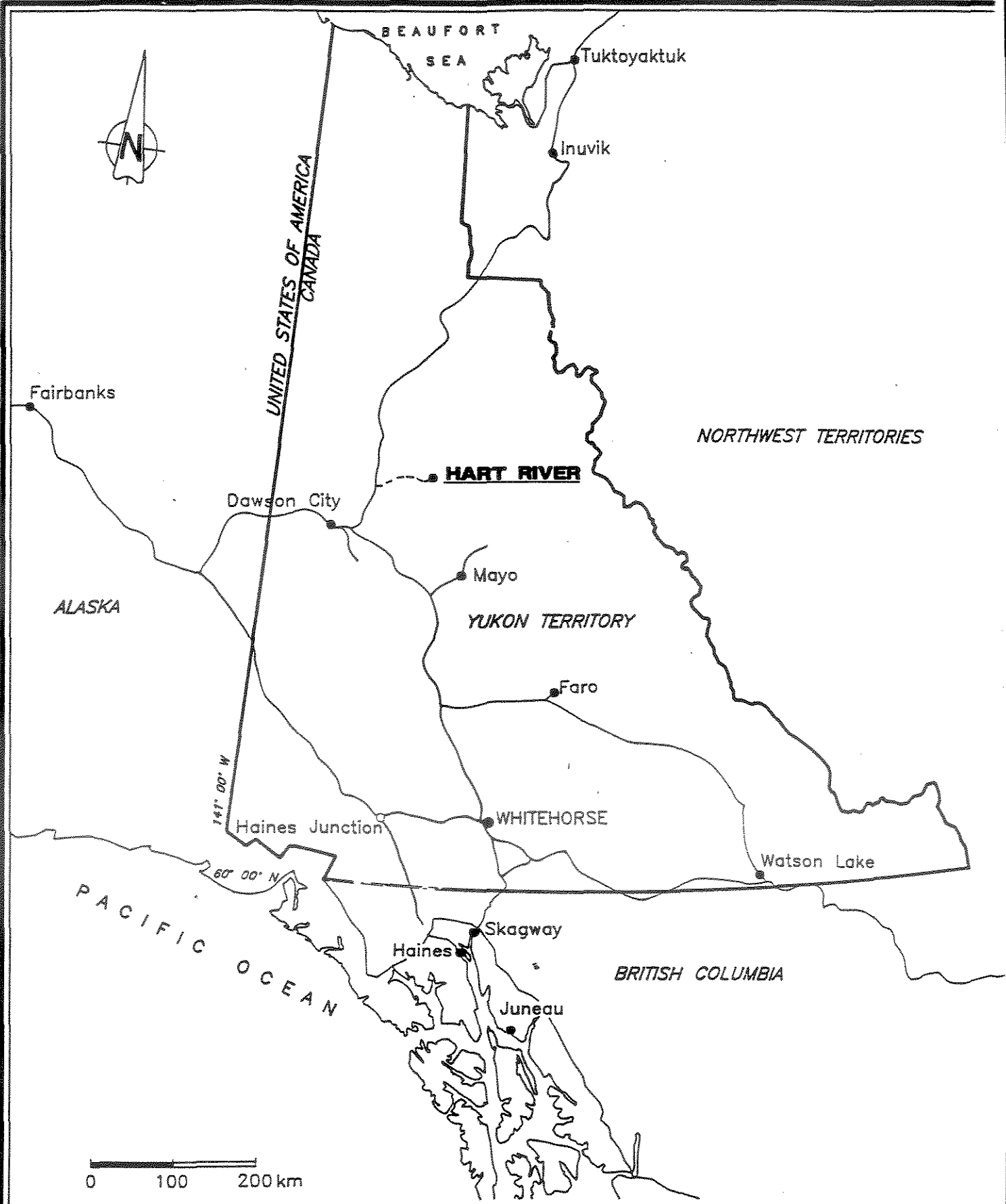
A 12-man tent camp was constructed at the airstrip for the 1993 program.

PROPERTY STATUS

Inco's property position consists of 8 Mark and 3 Core claims optioned from Calypso Developments Ltd. and 44 ARM claims staked and wholly owned by Inco.

REGIONAL GEOLOGY

The regional geology of the Hart River area is described most recently in Open File 1992-2 (Abbott and Roots, 1992). In this portion of the Wernecke Mountains, an east-southeast trending sequence of Proterozoic rocks is exposed in a window surrounded by much younger rocks of Lower Paleozoic age. The lenticular window is approximately 80 km long and 32 km wide, and exposes three Proterozoic rock packages separated by angular unconformities - the Windermere Supergroup, the Fifteen Mile Group, and the Wernecke Supergroup. Numerous sills and dykes of diorite intrude the Wernecke Supergroup assemblage.



INCO EXPLORATION AND TECHNICAL SERVICES INC.

**LOCATION MAP
OF HART RIVER DEPOSIT
AND RELATED YUKON INFRASTRUCTURE**

The Wernecke Supergroup consists of the Quartet Group of shale, siltstone and sandstone up to 2400 m thick that is overlain by the Gillespie Lake Group of dolomite, argillite, and basalt. The Gillespie Lake Group consists predominantly of dolomite but locally on the Hart River property, it also includes argillite with intercalated mafic flows and tuff. The argillite-volcanic package is about 600 m thick and is the host of the Hart River massive sulphide deposit. Overlying the argillite is more dolomite.

DIAMOND DRILLING

Inco completed 1556 m of BQ diamond drilling in 5 holes during 1993. All core was BQ size. Core recovery exceeded 95 % except for a few short intervals where some core was lost due to mismatches. A total of 112 split core samples was analyzed for gold and 32 other elements. Forty seven samples of basalt were sent in for wholerock analyses.

Drilling in 1993 initially focused on testing electromagnetic anomalies which were interpreted to represent an extension to the Mark deposit (BH 827018-20). The fourth hole (BH 827021) tested two E.M. anomalies and then was extended until it reached the Lower Dolomite Formation. The fifth hole (BH 87022), a stratigraphic hole, collared in the green and purple siltstones near the top of the Middle Argillite Formation and was terminated at 367.9 m in that formation. The arrival of winter conditions prompted the decision to discontinue the drill program at this point. The casing was left in the last hole and the drill was left on the last site.

Only trace to weakly anomalous amounts of Cu, Pb, Zn, Ag, Au, were encountered in the drill holes.

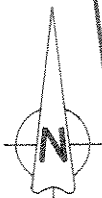
DRILL HOLE SUMMARY

HOLE	LENGTH (m)	NORTH (m X 100)	EAST (m X 100)	AZ	DIP
87018	218.5	45.54	203.76	360	-50
87019	221.0	47.35	203.12	360	-45
87020	373.4	43.05	203.00	360	-45
87021	375.2	39.45	203.15	040	-45
87022	367.9	36.25	204.0	045	-52

Environmental

No significant surface disturbance was caused by Inco's 1993 program. All drill sites were hand-built and involved local leveling of talus slopes. The drill was moved by helicopter which required some tree cutting at three of the sites. Four of the five drill sites were accessed by an all-terrain vehicle for

YUKON TERRITORY HART RIVER PROJECT CLAIM & DRILL HOLE LOCATION




AIRSTRIP

1993
I.E.T.S.
CAMP

ARM CLAIMS

LEGEND

 CLAIM OUTLINE

 1993 DIAMOND DRILL HOLE

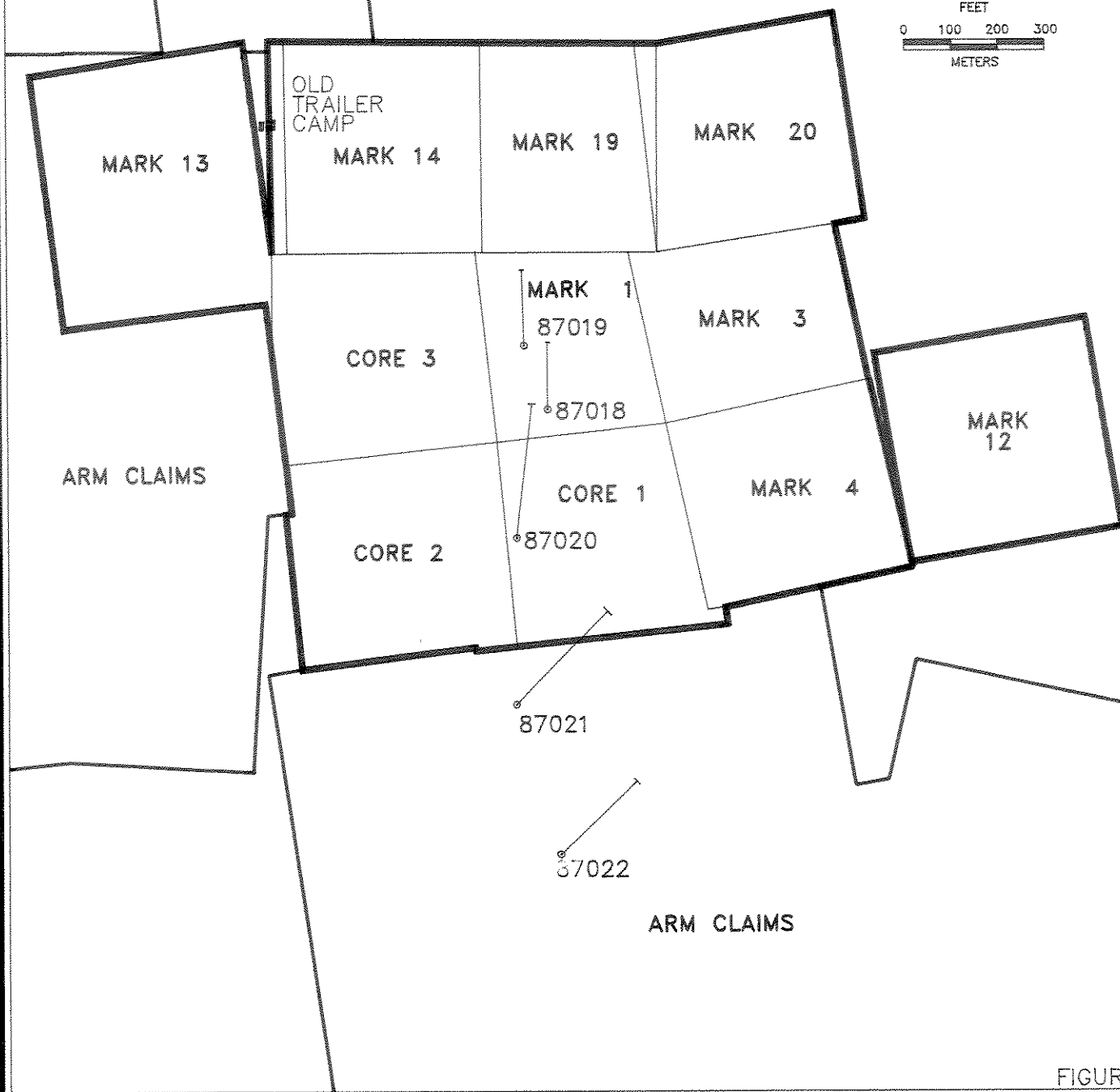
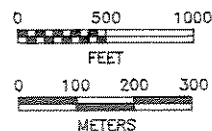


FIGURE 2

HAR028

transporting drillers and supplies.

Camp garbage was burned and the ash flown to Dawson City for disposal.

Core Storage

All drill core is stored in the equipment warehouse below the adit portal on Mark 1 claim, about 100 m S-SW of the NE corner of the Mark 1 claim.

Analytical Methods

All samples were analyzed by Chemex Labs Ltd., Vancouver, B.C. Drill core samples were crushed in multiple stages, subsampled and pulverized by Cr-steel ring to -150 mesh (>90%).

Core with evidence of mineralization was analyzed for 32 elements by the ICP procedure after digestion of the sample in aqua regia and for gold by fire assay with an atomic absorption finish. The following elements were determined and their level of detection is indicated:

Al	Aluminum*	0.01%
Sb	Antimony	2 ppm
As	Arsenic	2 ppm
Ba	Barium*	10 ppm
Be	Beryllium*	0.5 ppm
Bi	Bismuth	2 ppm
Cd	Cadmium	0.5 ppm
Ca	Calcium*	0.01%
Cr	Chromium*	1 ppm
Co	Cobalt	1 ppm
Cu	Copper	1 ppm
Ga	Gallium*	10 ppm
Fe	Iron	0.01%
La	Lanthanum*	10 ppm
Pb	Lead	2 ppm
Mg	Magnesium*	0.01%
Mn	Manganese	5 ppm
Hg	Mercury	1 ppm
Mo	Molybdenum	1 ppm
Ni	Nickel	1 ppm
P	Phosphorus	10 ppm
K	Potassium*	0.01%
Sc	Scandium*	1 ppm
Ag	Silver	0.2 ppm
Na	Sodium*	0.01%
Sr	Strontium*	1 ppm
Tl	Thallium*	10 ppm
Ti	Titanium*	0.01%

W	Tungsten*	10 ppm
U	Uranium	10 ppm
V	Vanadium	1 ppm
Zn	Zinc	2 ppm

Elements marked with an asterisk (*) are only partially dissolved by the digestion procedure and consequently their values should be regarded as only minimum indications of their absolute values.

Unmineralized core was sampled for comparative lithochemochemistry, especially to differentiate the mafic lithology. The core samples were analyzed for 11 oxides and 15 elements by the ICP procedure after digestion of the sample in hydrofluoric, nitric and perchloric acids. The following oxides and elements were determined and their level of detection is indicated:

Al ₂ O ₃	Aluminum oxide	0.01%
Sb	Antimony	2 ppm
As	Arsenic	2 ppm
Ba	Barium	10 ppm
Bi	Bismuth	2 ppm
CaO	Calcium oxide	0.01%
Cr ₂ O ₃	Chromic oxide	0.01%
Cu	Copper	2 ppm
Fe ₂ O ₃	Ferric oxide	0.01%
Pb	Lead	2 ppm
MgO	Magnesium oxide	0.01%
MnO	Manganese oxide	0.01%
Hg	Mercury	1 ppm
Mo	Molybdenum	1 ppm
Nb	Niobium	10 ppm
P ₂ O ₅	Phosphorus pentoxide	0.01%
K ₂ O	Potassium oxide	0.01%
Rb	Rubidium	10 ppm
Ag	Silver	0.2 ppm
Na ₂ O	Sodium oxide	0.01%
Sr	Strontium	10 ppm
TiO ₂	Titanium dioxide	0.01%
Zn	Zinc	2 ppm
Zr	Zirconium	10 ppm
Y	Yttrium	10 ppm

EXPENDITURE SUMMARY

Expenditures related to drilling at the Hart River project are summarized below:

Invoice	Hole	Metreage	Cost
873-5069-01	87018	218.6	\$35,445.68
873-5069-02	87019	220.7	
873-5069-02	87020	373.5	\$38,124.01
879-5069-03	87021	375.3	
879-5069-03	87022	368.0	\$46,569.14
Totals		1556.1	120,138.83

Expenditures directly incurred on the Mark and Core claims relate only to bore holes 87018, 87019, 87020 and 28.6% of 87021, i.e. a total footage of 3,018 ft. (i.e. 920.12 m). The Schedule of Representation Work (Par. 3aiii) allows for a credit of \$15.00 per foot for drill core over 1" in diameter. Accordingly, the expenditures claimed related to drilling on the Mark and Core claims as specified in this report and applied towards assessment credit are

$$3018 \text{ ft.} \times \$15./\text{ft.} = \$45,270.$$

The assessment credit needed to maintain the Mark and Core claims through 1998 is calculated as

$$5 \text{ years} \times 8 \text{ claims} \times \$100./\text{year} = \$4,000.00$$

$$4 \text{ years} \times 3 \text{ claims} \times \$100./\text{year} = \underline{\$1,200.00}$$

$$\text{Total} \qquad \qquad \qquad \$5,200.00$$

LIST OF REFERENCES

Abbott, J.G. and Roots, C., 1992, Geological map of part of map sheets 116A/10 and 116A/11, Indian and Northern Affairs Canada, Exploration and Geological Services Division, Yukon Region, Open File 1992-2, 1:50,000 scale.

APPENDIX A - DRILL LOGS FOR
BOREHOLES 87018 TO 87022

BOREHOLE LOG

BOREHOLE : 87018
 PROJECT : HART RIVER
 PROPERTY NAME : HART RIVER
 MINE :

DATE PRINTED: 03/01/94

COUNTRY : CANADA
 PROV/STATE : YUKON
 NTS/QUADRANGLE : 116A/10
 TWP/COUNTY :
 SEC. T. R. :
 CLAIM NAME :
 GRID NAME : IETS
 UTM COORDINATES :
 ANOMALY # : G

NORTHING : 4554.00
 EASTING : 20376.00
 ELEVATION : 1138.43
 BOREHOLE BEARING : 360
 INCLINATION : -50
 HOLE LENGTH : 218.54
 ATTITUDE TEST METHOD: ACID

LEVEL : surface
 HEADING :
 SECTION :
 BASELINE AZIMUTH : 90

LOGGED BY : ED HUNTER
 LOGGING STARTED :
 LOGGING COMPLETED :
 DRILLED BY : ADVANCED DRILLING Ltd.
 DRILL TYPE : BOYLES 25A
 CORE SIZE : BQ
 HOLE SIZE :
 STARTED : Aug.9,1993
 COMPLETED : Aug.15,1993

ASSAYED FOR : ICP 33 + Au

COMMENTS:*****

The argillite sequence from 120.88 to 162.90 has abundant sulphide rich beds similar to the BANDED ORE found adjacent to the Mark massive sulphide zone. This sequence either correlates with the MINE HORIZON or is another exhalative sulphide horizon above or below the MINE HORIZON. No significant quantities of economic minerals were encountered in this hole but this is a favourable horizon that could contain massive sulphides along strike or down dip. Metric hole location 45.54 N 203.76 E. Drilled on Mark # 1 claim.
 LEFT IN HOLE :nothing

DEVIATION RECORDS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
0.00	360.00	-50.00	113.00	360.00	-46.00	218.50	360.00	-46.00

FROM	TO	DESCRIPTION	FROM	TO	SAMPLE#	Cu	Pb	Zn	Ag	Au
me	me		me	me		PPM	PPM	PPM	PPM	PPB
0.00	20.20	overburden Talus, all boulders are volcanic similar to bedrock. Difficult to determine exactly where the contact is	0.00	31.70	NS	-	-	-	-	-

FROM me	TO me	DESCRIPTION	FROM me	TO me	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		between volcanic talus and broken volcanic bedrock. No core recovery from 0 to 12.2 meters, 15% recovery from 12.2 to 20.2 meters.								
20.20	120.88	basalt								
		Gray green medium grained basic flow or dyke, weakly magnetic. Carbonate filled fractures at 20 degrees cut by chlorite-carbonate filled fractures and gashes at 10, 20, 30, 40 and 55 degrees with various strikes. occasional	31.70	31.85	WFX486101	163	80	80	0.2	-
		qtz-carbonate-axinite(?) - chlorite veins and lenses up to 5 cm wide at 55 degrees. Moderately fractured at 55 degrees. 98% core recovery.	31.85	90.50	NS	-	-	-	-	-
		20.20 - 50.00 Rare Po disseminated and in chlorite-carbonate filled fractures.	90.50	90.68	WFX486102	166	2	74	0.2	-
		50.00 - 72.00 Trace disseminated Po and trace Po, Cpy and rare sphalerite in chlorite-carbonate filled fractures and in qtz-carbonate-axinite chlorite veins.	90.68	120.88	NS	-	-	-	-	-
		72.00 - 90.75 Rare Po disseminated and in fractures.								
		90.75 - 92.20 1 cm and 10 cm wide carbonate-chlorite filled fractures at 25 degrees containing 2 to 4% Po.								
		92.20 - 96.34 Trace Po and Cpy in chlorite-carbonate filled fractures.								
		96.34 - 96.83 Carbonate-qtz filled pockets possibly vesicules with fabric at 60 degrees. 1% Po and trace Cpy along edges of pockets.								
		96.83 - 99.24 Rare Po on fractures.								
		99.24 - 101.30 A 0.80 M wide sheared and brecciated zone bounded by zones of mottled volcanics. Mottling caused by clots of chlorite with a lineation of 55 degrees. Upper contact is slightly bleached, possibly a chilled contact (?). Structurally disturbed zone contains about 25% irregular blebs of chert and 25% clasts of volcanics in a highly chloritic matrix. Up to 1% Po and 1% Cpy								

FROM me	TO me	DESCRIPTION	FROM me	TO me	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		shearing varies from 60 to 80 degrees. 101.30 -120.88 Slightly mottled texture. Po and Cpy common in minor amounts along chlorite-carbonate filled fractures. Lower contact very sharp at 55 degrees. Lower 0.35 M of the volcanic is finer grained and harder than normal probably due to chilling.								
120.88	122.10	argillite Black, slightly carbonaceous. Indistinct distorted bedding averaging about 70 degrees. 20% qtz-carbonate as lenses and disruptrd stringers at 55 to 90 degrees. Very very fine grained disseminated pyrite, up to 10% in some beds. 1-2% Po, up to 1% Cpy and minor sphalerite as fracture controlled blebs and stringers generally paralleling the distorted qtz-carbonate stringers. 95% recovery.	120.88	122.10	FX486001	170	60	408	1.6	5
122.10	122.40	quartz Possibly a chert bed. 90% gray siliceous material, moderately crackled with qtz-carbonate fracture filling. Irregular carbonaceous contacts at about 75 degrees. Occassional bleb of Po and Cpy. 100% recovery.	122.10	122.40	FX486002	44	20	76	0.2	5
122.40	123.18	argillite As above argillite but with only 5% qtz-carbonate lenses. Indistinct distorted bedding. Very very fine grained pyrite varying from 3 to 10% apparently controlled by selective beds. Minor fracture controlled Po and Cpy. 100% recovery.	122.40	123.18	FX486003	105	24	184	1.2	5
123.18	123.50	quartz Similar to 122.10 to 122.40 with brecciated upper contact. Contacts at 60 degrees, occassional Po and Cpy bleb. 100% recovery.	123.18	123.50	FX486004	69	2	170	0.4	5
123.50	124.00	argillite Black, distorted bedding with 5% to	123.50	124.00	FX486005	91	70	1160	1.6	5

FROM me	TO me	DESCRIPTION	FROM me	TO me	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		10% very very fine grained pyrite controlled by bedding. Minor pyrite, Po and sphalerite along fractures. 5% distorted qtz-carbonate stringers, sphalerite blebs along upper contact. 100% recovery.								
124.00	125.13	breccia 60% gray chert (?) clasts, 10% argillite clasts, 20% distorted argillite beds. Qtz-carbonate and chlorite breccia matrix. Argillite beds have from 3% to 20% very fine grained pyrite. Minor blebs of Py, Po and Cpy along fractures. 100% recovery.	124.00	125.13	FX486006	44	28	126	0.4	5
125.13	145.00	argillite Dark gray to black, thin laminated bedding at 60 to 70 degrees with local folding probably due to slumping. Most beds contain extremely fine grained pyrite from about 2% up to 20% or more. Po occurs as 1 mm thick beds and as fine grained specks disseminated within the pyritic beds. The Po content varies from 1 to 3%. Sphalerite occurs only as a few hairline to 1 mm thick beds. Chalcopyrite occurs as trace amounts of disseminated specks within the pyritic beds. The Po beds and specks have a distinct fabric or lineation that is from 15 to 45 degrees to the bedding and parallel to the cleavage. The cleavage faces are generally coated with a mixture of pyrite, Po and minor chalcopyrite. Numerous hairline to 1 cm wide qtz-carbonate stringers with minor Po, Cpy and rare galena run parallel to the cleavage. Recovery over 95%. 125.13 - 126.20 10% qtz-carbonate stringers at 15 to bedding with 1% Po and traces of chalcopyrite and sphalerite. 130.00 - 139.00 Moderately to highly broken.	125.13	126.20	FX486007	136	40	150	1.2	5
			126.20	128.00	FX486008	175	34	170	1.4	5
			128.00	130.00	FX486009	207	40	178	1.4	5
			130.00	132.00	FX486010	163	42	110	1.2	5
			132.00	134.00	FX486011	201	30	134	1	5
			134.00	136.00	FX486012	162	30	146	1	5
			136.00	138.00	FX486013	201	14	684	0.8	5
			138.00	140.00	FX486014	197	32	244	1	5
			140.00	142.00	FX486015	162	38	46	1.4	5
			142.00	144.00	FX486016	168	50	42	1.8	5
			144.00	145.00	FX486017	239	60	46	1.8	5
145.00	145.33	limestone								

FROM me	TO me	DESCRIPTION	FROM me	TO me	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		A medium grained well bedded highly calcareous sediment with 1-2% disseminated Py and trace Cpy.	145.00	145.33	FX486018	74	8	288	0.4	5
145.33	162.90	argillite								
		As from 126.20 to 145.00 but with a slight decrease in sulphide content and increase in quantity and thickness of calcareous mudstone beds. Bedding distinct at 70 degrees with cleavage essentially parallel to bedding. Moderately broken core. Over 95% recovery. The lower contact is sharp at 70 degrees, the argillite is hornfelsed for 0.70 meters next to the lower contact and the bedding is indistinct in this area. The adjacent volcanic unit appears to be conformable to bedding.	145.33	147.00	FX486019	174	36	148	1.2	5
			147.00	149.00	FX486020	148	38	414	1.6	5
			149.00	151.00	FX486021	148	40	332	1.4	5
			151.00	153.00	FX486022	151	40	236	1.2	5
			153.00	155.00	FX486023	153	40	162	1.2	5
			155.00	157.00	FX486024	165	36	166	1.4	5
			157.00	159.00	FX486025	142	38	434	1.2	5
			159.00	161.00	FX486026	136	60	196	1.6	5
			161.00	162.90	FX486027	161	54	244	1.8	5
162.90	194.80	basalt								
		Gray green, with five episodes of grading from fine grained gradationally downwards to medium grained then fairly abruptly back to fine grained-possibly different flows or a sheeted dyke. Lower contact at 60 degrees appears to be conformable to bedding. Minor amounts of Cpy occurs as disseminated specks. Chlorite is common on fractures and in tension gashes. Carbonate-qtz-chlorite veins and pockets make up from 5% to 10% of the core, cutting the core at 45 to 65 degrees. Three qtz-carbonate-axinite(?) veins 5 cm wide cut the core at 35 to 45 degrees.	162.90	182.90	NS	-	-	-	-	-
			182.90	183.00	WFX486103	196	2	128	0.2	-
			183.00	199.00	NS	-	-	-	-	-
194.80	198.46	argillite								
		194.80 - 195.70 Gray black, bedding at 65 degrees 1 to 2% Po disseminated and coating fractures at 80 degrees with trace of Cpy.								
		195.70 - 197.67 Volcanic derived sediments (?) shot through with 25% irregular qtz-carbonate stringers and veins. Graphite occurs on a few bedding planes and a few 1 cm thick								

FROM me	TO me	DESCRIPTION	FROM me	TO me	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		beds contain up to 10% very fine grained pyrite. Po occurs locally up to 2% along beds and coating fractures with trace Cpy. 197.67 - 198.46 Gray black with bedding and fractures at 65 degrees, 1% Po mainly as fracture filling.								
198.46	199.20	basalt Gray green medium grained, upper contact sharp at 65 degrees conformable with bedding, lower contact brecciated with distorted bedding in the adjacent argillite. 100% core recovery.	199.00	199.20	WFX486104	289	30	392	0.2	-
199.20	202.15	argillite Gray very fine grained with indistinct distorted bedding. May be tuffaceous. 1% Po with trace Cpy mostly occurring on fractures. Numerous squiggly carbonate stringers at 45 to 60 degrees.	199.20	206.00	NS	-	-	-	-	-
202.15	214.65	basalt Sharp upper contact at 75 degrees, no distinct bedding in the adjacent argillite. Gray green medium grained on upper contact becoming finer grained with depth. Varies from fine grained to medium grained five times with the contacts sometimes sharp at 75 degrees but usually gradational carbonate and chlorite common on fractures. Trace disseminated Po.	206.00 206.20	206.20 218.24	WFX486105 NS	163 -	2 -	84 -	0.2 -	- -
214.65	215.87	argillite Gray to black, distorted thinly laminated beds. 15% carbonate stringers sub-parallel to bedding. 1 to 3% Po and trace Cpy on fractures at 60 degrees and as 1 mm thick beds. Lower contact sharp at 60 degrees. 100% recovery.								
215.87	218.54	basalt Gray green, same as previous volcanic	218.24	218.40	WFX486106	144	2	72	0.2	-

FROM me	TO me	DESCRIPTION	FROM me	TO me	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
------------	----------	-------------	------------	----------	---------	-----------	-----------	-----------	-----------	-----------

units in this hole. Grades downwards
from medium grained to fine grained.
Trace disseminated Po and Cpy. Foot of
hole.

			218.40	218.54	NS	-	-	-	-	-
--	--	--	--------	--------	----	---	---	---	---	---

BOREHOLE LOG

BOREHOLE : 87019
 PROJECT : Hart River
 PROPERTY NAME : Hart River
 MINE :
 COUNTRY : Canada
 PROV/STATE : Yukon Territory
 NTS/QUADRANGLE : 116A/10
 TWP/COUNTY :
 SEC. T. R. :
 CLAIM NAME :
 GRID NAME : IETS
 UTM COORDINATES :
 ANOMALY # : D
 LEVEL : surface
 HEADING :
 SECTION :
 BASELINE AZIMUTH : 90
 ASSAYED FOR : ICP 33 + Au

NORTHING : 4735.00
 EASTING : 20312.00
 ELEVATION : 1109.47
 BOREHOLE BEARING : 360
 INCLINATION : -45
 HOLE LENGTH : 221.00
 ATTITUDE TEST METHOD: acid etch

DATE PRINTED: 03/01/94

LOGGED BY : ED HUNTER
 LOGGING STARTED :
 LOGGING COMPLETED :
 DRILLED BY : Advanced Drilling Ltd.
 DRILL TYPE : Boyles 25A
 CORE SIZE : BQ
 HOLE SIZE :
 STARTED : Aug. 16, 1993
 COMPLETED : Aug. 21, 1993

COMMENTS:*****

This hole was drilled to test conductor D. From 36.60 M to F.O.H. the argillite is carbonaceous with graphite on fractures and had numerous thin conductive pyrite beds. The anomaly can easily be explained by the multitude of thin weakly to moderately conductive zones encountered in the hole. Metric hole location is 47.35 N 203.12 E. Drilled on Mark #1 claim.

LEFT IN HOLE :Nothing

DEVIATION RECORDS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
0.00	360.00	-45.00	106.70	360.00	-45.00	221.00	360.00	-43.00

FROM	TO	DESCRIPTION	FROM	TO	SAMPLE#	Cu	Pb	Zn	Ag	Au
m	m		m	m		PPM	PPM	PPM	PPM	PPB
0.00	11.25	overburden	0.00	104.00	NS	-	-	-	-	-
11.25	221.00	argillite								

FROM m	TO m	DESCRIPTION	FROM m	TO m	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
	11.25 - 32.25	Dark gray thinly bedded at 35 ,locally very carbonaceous .	104.00	106.00	FX486028	212	26	392	1.4	30
		Numerous white qtz veins 0.5 cm to 25 cm wide subparallel to bedding generally brecciated along the contacts. Locally abundant hairline qtz carbonate pyrite stringers at 45 degrees. Moderately to highly fractured at 55, 70 and 80 degrees. Left lateral offsets of 0.5 cm are common along the fractures. 1 to 4% very fine grained pyrite occurs as disseminated specks alined along the bedding.	106.00	108.00	FX486029	147	52	322	1.2	25
			108.00	110.00	FX486030	238	56	452	1.4	25
			110.00	112.00	FX486031	178	38	200	1.2	20
			112.00	114.00	FX486032	194	38	966	1.2	20
			114.00	116.00	FX486033	143	42	400	0.8	20
			116.00	118.00	FX486034	164	34	134	0.6	25
			118.00	120.00	FX486035	154	22	76	0.8	25
			120.00	122.00	FX486036	169	38	138	0.8	25
			122.00	124.00	FX486037	174	28	108	1.2	30
			124.00	126.00	FX486038	223	24	146	1.2	35
			126.00	128.00	FX486039	164	22	84	0.2	30
			128.00	130.00	FX486040	221	40	124	0.8	30
			130.00	132.00	FX486041	195	44	156	1.2	35
	32.25 - 36.60	As above with five white qtz veins from 8 cm to 35 cm wide with irregular brecciated contacts and traces of Po and Py. Moderately to highly broken 80% core recovery.								
	36.60 - 104.0	Gray to black, bedding at 30 to 40 degrees. Argillite beds are generally moderately carbonaceous and graphite is common on fractures. Left lateral offsetting along fractures at 65 degrees is common and locally abundant. 1 to 4% pyrite occurs disseminated along bedding with rare 1 mm thick pyrite beds. hairline qtz-carbonate pyrhotite stringers are common, cutting the core at 35 degrees and cutting the bedding at 20 degrees. The bedding swings abruptly subparallel to the core axis for about 0.5 M at the 71.1 M, 90.3 M, and stays at 0 to 20 degrees to core from 96.6 to 103.0 M.								
	104.0 - 134.0	As above with bedding from 60 to 80 degrees. Sulphide content within beds increases from above argillite. One to five mm thick beds of 20% fine grained pyrite are common with the pyrite being aligned along a cleavage direction at 60 degrees to core axis and 30 degrees to bedding. 3 to 5 percent very fine grained pyrite occurs in most beds. Fracture surfaces are commonly graphitic and the								

FROM m	TO m	DESCRIPTION	FROM m	TO m	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		argillite itself is carbonaceous. The ohm meter indicates weak conductivity within the pyrite rich beds and the graphitic fracture surfaces.								
		134.0 - 191.0 Black carbonaceous mudstone. Indistinct bedding at 60 degrees locally distorted to 10 degrees. Cleavage at 55 degrees with abundant minor left lateral offsets of bedding along the cleavage planes. 1 to 5% fine grained disseminated pyrite and numerous 1 mm to 2 mm thick pyrite beds. Py beds and graphitic fractures both have weak to locally strong conductivity. Rare sphalerite in qtz-carbonate stringers. Occasional gray calcareous beds interbedded with the black carbonaceous mudstone.								
		191.0 - 207.0 As above with bedding at 75 to 80 degrees. Occasional calcareous bed.								
		207.0 - 221.0 As above, numerous pyritic beds generally 1 to 5 MM thick but locally up to 1 cm thick with enough sulphides to be weakly to moderately conductive. Bedding at 55 to 70 degrees. Over 95% recovery except for the last 3 meters where they had a mislatch and only recovered 20% of the core. Foot of hole. All material removed.								
			132.00	134.00	FX486042	136	14	102	0.8	30

BOREHOLE LOG

BOREHOLE : 87020
PROJECT : HART RIVER
PROPERTY NAME : HART RIVER
MINE :

DATE PRINTED: 03/01/94

COUNTRY : CANADA
PROV/STATE : YUKON
NTS/QUADRANGLE : 116A/10
TWP/COUNTY :
SEC. T. R. :
CLAIM NAME :
GRID NAME : IETS
UTM COORDINATES :
ANOMALY # : I

NORTHING : 4305.00
EASTING : 20300.00
ELEVATION : 1146.05
BOREHOLE BEARING : 360
INCLINATION : -45
HOLE LENGTH : 373.38
ATTITUDE TEST METHOD: ACID

LEVEL : SURFACE
HEADING :
SECTION :
BASELINE AZIMUTH : 90

LOGGED BY : ED HUNTER
LOGGING STARTED :
LOGGING COMPLETED :
DRILLED BY : ADVANCED DRILLING Ltd.
DRILL TYPE : BOYLES 25A
CORE SIZE : BQ
HOLE SIZE :
STARTED : Aug 21, 1993
COMPLETED : Aug.31, 1993

ASSAYED FOR : ICP 33 + Au

COMMENTS:*****

Drilled on Core #1 claim.
LEFT IN HOLE :nothing

DEVIATION RECORDS

Table with 9 columns: DEPTH, AZIMUTH, DIP, DEPTH, AZIMUTH, DIP, DEPTH, AZIMUTH, DIP. It shows deviation data at different depths.

Table with 12 columns: FROM M, TO M, DESCRIPTION, FROM M, TO M, SAMPLE#, Cu PPM, Pb PPM, Zn PPM, Ag PPM, Au PPB. It details geological observations and sample analysis results.

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		pyrrhotite. Lower contact sharp at 35 degrees The bottom 30 cm basalt is dark green but not finer grained- doesn't appear to be a chilled contact.								
37.19	42.15	argillite Gray siliceous thinly bedded. Bedding 40 to 55 degrees, locally highly distorted. 1 to 2% disseminated pyrrhotite.								
42.15	42.67	conglomerate Coarse clastic sediment with clasts of argillite, chert and possibly basalt cemented by carbonate. Irregular contacts.								
42.67	49.38	basalt Gray green as above basalt. But with some argillite clasts and thin graphitic argillite beds.	45.72 45.87	45.87 68.58	WFX486108 69 NS	-	2 -	78 -	0.2 -	- -
49.38	55.78	argillite Gray, thinly bedded, bedding at 50 degrees, locally very distorted. Abundant qtz-carb stringers up to 12 mm cutting bedding at right angles. Minor disseminated pyrrhotite.								
55.78	88.39	basalt Gray green, moderately fractured with qtz-carb-chlorite cement. Lower contact sharp at 65 degrees. 55.78 - 58.22 Basalt with 50% qtz-carb-chlorite veining with brecciated contacts. Possibly a fault zone cemented by the vein material.	68.58 68.73	68.73 89.91	WFX486109 143 NS	-	2 -	54 -	0.2 -	- -
88.39	89.00	argillite Gray to black thinly bedded. Bedding very distorted. Minor pyrite on fractures at 70 degrees.								
89.00	90.65	basalt Gray green, same as above basalt. Lower contact sharp at 60 degrees.	89.91 90.06	90.06 90.65	WFX486110 155 NS	-	8 -	580 -	0.2 -	- -

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
90.65	101.19	argillite								
		97.40 - 91.55 Black, bedding at 40 degrees, possibly tuffaceous, 3-4% Po blebs aligned along bedding. Cut by several Po-carb filled fractures at 65 degrees.	90.65	91.55	FX486043	175	126	344	0.8	15
			91.55	92.78	FX486044	77	10	46	0.2	5
			92.78	93.53	FX486045	280	398	1720	1.6	20
			93.53	95.14	FX486046	191	54	986	0.8	15
			95.14	96.08	FX486047	275	246	910	1.4	45
		91.55 - 92.78 Gray, thinly bedded at 40 - 45 degrees. Minor disseminated Po.	96.08	97.54	FX486048	194	42	378	0.6	15
			97.54	99.55	FX486049	207	46	188	0.2	5
			99.55	101.19	FX486050	211	98	1060	1.2	20
		92.78 - 93.53 Gray-black, bedding at 45 degrees. 3 to 5% disseminated Po and numerous hairline to 3 mm wide bands of massive Po with minor sphalerite.								
		93.53 - 95.14 Gray, thinly bedded. Bedding at 40 degrees. 1% disseminated Py and Po.								
		95.14 - 96.08 Gray-black, 3% to 5% disseminated Po and irregular beds(?) up to 12 mm wide of semimassive Po in a carbonate matrix with traces Cpy and ZnS.								
		96.08 - 99.55 Gray, thinly bedded at 30 degrees. Bedding cut at right angles by several qtz-carb veins up to 5.0 cm wide. 1 to 2% Po and minor Cpy concentrated along bedding planes.								
		99.55 - 101.19 Gray to black, possibly tuffaceous, bedding at 35 degrees. 2 to 5% disseminated Po and hairline to 6 mm inch wide beds of semi-massive Po with minor Cpy. Po coated fractures at 25 and 40 degrees.								
101.19	101.46	sulfide								
		Semi-massive beds of Po, Cpy with minor Cpy and ZnS interbedded with argillite. Highly conductive sulphide beds. Total sulphide content about 20%.	101.19	101.47	FX486051	415	772	1825	3.2	90
101.46	102.76	tuff								
		Gray-black, tuffaceous sediment, 5% disseminated Po blebs and Po coated fractures at 40 degrees that are highly conductive.	101.47	102.76	FX486052	216	372	580	1.6	45
102.76	111.77	argillite								

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		102.76 - 104.85 Gray thinly bedded. Highly distorted bedding. 1% disseminated Po and trace Cpy.	102.76	104.85	FX486053	139	22	462	0.2	10
		104.85 - 111.77 Dark gray thinly bedded at 30 to 45 degrees. The darker beds have up to 3% disseminated Po, the lighter beds have 1% Po.	104.85	106.68	FX486054	202	216	1025	1	30
			106.68	108.51	FX486055	238	160	1160	0.4	20
			108.51	110.34	FX486056	289	36	284	0.2	10
			110.34	111.77	FX486057	254	52	588	0.4	10
111.77	116.13	tuff								
		Dark gray, tuffaceous indistinct bedding at 40 degrees. 2 to 3% fine grained disseminated Po. Locally abundant hairline Po beds. Fractures coated with Po and carbonate with traces of Cpy and ZnS.	111.77	113.69	FX486058	183	414	3020	1.2	20
			113.69	116.13	FX486059	284	232	1330	1	20
116.13	117.45	tuff								
		Mafic tuff, dark gray to black. 2 to 3% disseminated Po. Po and minor Cpy coating fractures.	116.13	117.45	FX486060	232	52	436	1.4	15
117.45	119.40	ash tuff								
		117.45 - 117.77 Very fine grained gray-brown thinly bedded ash or mud. Very distorted bedding. Irregular lenses of massive sulphides up to 5.0 cm thick. Consisting of a Po groundmass with 6 mm clots of massive pyrite. Very fine grained disseminated Py and Po throughout the ash. Total sulphide content is about 10 to 15%.	117.45	117.77	FX486061	440	170	134	2.6	45
		117.77 - 119.40 As above without the sulphide lenses. Abundant hairline to 6 mm thick beds of Po and carb with minor Cpy and trace ZnS.	117.77	119.40	FX486062	378	130	232	2.6	45
119.40	120.32	tuff								
		As above at 116.13, bedding at 45 degrees but locally distorted. Cut by offsetting fractures at 70 degrees. Thin ash bed with fracture fillings of carbonate, pyrrhotite, sphalerite and trace of galena.	119.40	120.32	FX486063	266	144	1480	0.6	15
120.32	120.93	ash tuff								
		As at 119.40, distorted bedding cut by numerous qtz-carb stringers at 50 to 70 degrees with minor Po and	120.32	120.93	FX486064	283	470	2180	2.4	45

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		sphalerite.								
120.93	126.84	tuff								
		Gray to black, bedding 40 to 50	120.93	123.14	FX486065	238	186	890	0.8	10
		degrees but locally distorted to 5 to	123.14	124.97	FX486066	286	84	502	1	5
		10 degrees. Fractures at 60 to 70	124.97	126.84	FX486067	188	28	102	0.6	5
		degrees. 1 to 2% disseminated Po, locally up to 4%.								
126.84	127.07	ash tuff								
		Gray-brown as above ash beds. 3 to 5%	126.84	127.07	FX486068	188	162	80	1.8	30
		very fine grained Po. Fine laminated beds offset by fractures at 45 degrees.								
127.07	130.00	tuff								
		127.07 - 127.56 Gray-black, bedding at	127.07	127.56	FX486069	134	62	74	0.8	10
		40 degrees. 1 to 2% disseminated Po	127.56	127.68	FX486070	182	188	92	1.8	10
		and numerous hairline beds of	127.68	128.93	FX486071	190	88	170	1.4	10
		semi-massive Py and Po.	128.93	130.00	FX486072	246	18	1670	0.4	5
		127.56 - 127.68 As above but with up to 10% Py-Po as thin semi-massive beds.								
		127.99 - 128.93 As from 127.07 to 127.56 bedding is distorted but averages 35 degrees. Locally up to 5% pyrrhotite.								
		128.93 - 130.00 As above but pyrrhotite content decreasing with depth down to 1% at lower contact. Contact sharp at 50 degrees.								
130.00	164.07	basalt								
		Gray green medium grained, weakly	130.00	156.06	NS	-	-	-	-	-
		fractured at 25 to 40 degrees.	156.06	156.21	WX486111	131	2	74	0.2	-
		Fractures filled with carbonate and chlorite commonly with pyrite and pyrrhotite along the edges.	156.21	164.07	NS	-	-	-	-	-
164.07	168.43	tuff								
		Dark gray to black, very finely bedded	164.07	166.12	FX486073	130	10	116	0.6	5
		at 35 to 40 degrees. 3 to 5%	166.12	168.43	FX486074	150	12	114	0.6	5
		pyrrhotite and minor chalcopyrite as blebs and hairline beds with a carbonate matrix. A 2.5 cm massive pyrrhotite bed at the lower contact.								
168.43	170.84	tuff								

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		Gray green finely bedded. Very similar in composition as the basalt units but is clearly bedded at 55 to 70 degrees. Trace disseminated pyrrhotite.	168.43	183.18	NS	-	-	-	-	-
170.84	244.14	basalt								
		Gray-green, medium grained as above basalt. Occasional pink axinite(?) veinlet up to 12 mm thick. Lower contact is gradational.	183.18	183.33	WFX486112	118	2	56	0.2	-
			183.33	212.75	NS	-	-	-	-	-
			212.75	212.90	WFX486113	154	2	52	0.2	-
			212.90	253.90	NS	-	-	-	-	-
244.14	244.75	argillite								
		Gray to black mudstone. Lower contact sharp at 60 degrees. Several hairline fractures coated with sphalerite. 1% disseminated pyrrhotite.								
244.75	255.91	basalt								
		Gray green medium grained. Cut by several qtz-carbonate veins up to 15 cm wide at 20 to 35 degrees. Veins contain 1% pyrrhotite and chalcopyrite.	253.90	254.05	WFX486114	141	2	64	0.2	-
			254.05	255.91	NS	-	-	-	-	-
255.91	261.18	argillite								
		Dark gray to black, possibly locally tuffaceous. Bedding at 65 degrees.	255.91	256.58	FX486075	100	2	332	0.2	5
			256.58	257.16	FX486076	204	140	58	1.6	15
		255.91 - 256.58 2 to 3% disseminated pyrrhotite. Fracturing parallel to bedding at 65 degrees.	257.16	258.04	FX486077	118	64	76	0.6	10
			258.04	258.14	FX486078	364	220	110	2.2	55
		256.58 - 257.16 As above but with several beds of semi-massive pyrite and pyrrhotite up to 5.0 cm thick. Sulphide beds are massive enough to be moderately to highly conductive.	258.14	259.66	FX486079	327	64	536	1.2	20
			259.66	261.18	FX486080	198	6	390	0.6	10
		257.16 - 258.04 Argillite with 1 to 3% disseminated pyrrhotite. One 2.5 cm lense of pyrrhotite and chalcopyrite. Hairline beds and fracture fillings of massive pyrrhotite.								
		258.04 - 258.14 Argillite with 25% combined pyrrhotite and pyrite in distorted beds.								
		258.14 - 261.18 1 to 3% disseminated pyrrhotite and 1 to 2% pyrrhotite as fracture fillings.								
261.18	263.23	basalt								

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		Gray-green medium grained. Upper contact at 50 degrees, lower contact sharp at 85 degrees. Chlorite and carb on fractures.	261.18	262.13	NS	-	-	-	-	-
			262.13	262.28	WFX486115	144	2	80	0.2	-
			262.28	263.96	NS	-	-	-	-	-
263.23	263.42	argillite Bedding at 80 degrees. Minor pyrrhotite, numerous qtz-carb stringers subparallel to bedding.								
263.42	264.67	basalt As above basalt, contacts at 70 degrees.	263.96	264.11	WFX486116	120	10	126	0.2	-
			264.11	266.70	NS	-	-	-	-	-
264.67	264.81	argillite Bedding at 70 degrees, abundant qtz-carbonate stringers subparallel to bedding. 1% pyrrhotite.								
264.81	265.79	basalt As above basalt.								
265.79	266.43	argillite Dark gray, possibly tuffaceous. 2 to 3% disseminated pyrrhotite. Bedding 60 to 70 degrees cut by abundant carb stringers.								
266.43	267.61	basalt As above basalt but gets coarser grained and apparently vesicular near lower contact.	266.70	266.85	WFX486117	150	2	28	0.2	-
			266.85	270.97	NS	-	-	-	-	-
267.61	270.66	argillite Dark gray, thinly bedded at 65 to 70 degrees. 1 to 2% disseminated pyrrhotite with locally up to 3% pyrrhotite as stringers subparallel to bedding.								
270.66	273.30	basalt Gray-green, becoming coarser grained near lower contact.	270.97	271.12	WFX486118	140	2	102	0.2	-
			271.12	275.23	NS	-	-	-	-	-
273.30	273.60	tuff 1% finely disseminated pyrrhotite. Bedding at 70 degrees.								
273.60	275.65	basalt								

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		Gray-green medium grained, sharp contacts at 65 degrees.	275.23 275.39	275.39 279.71	WFX486119 NS	125 -	2 -	78 -	0.2 -	- -
275.65	279.71	argillite Dark gray, indistinct bedding at 65 degrees. Possibly some tuffaceous beds. 1 to 2% finely disseminated pyrrhotite. Pyrrhotite common on fracture faces.								
279.71	280.63	tuff Mafic, black, indistinct distorted bedding. 3 to 6% disseminated pyrrhotite and minor chalcopyrite concentrated along bedding.	279.71	280.63	FX486081	295	106	318	1.2	60
280.63	286.66	argillite Gray to black thinly bedded. Very distorted bedding. Possibly some interbedded tuffaceous sediments. 1 to 3% finely disseminated pyrrhotite. Numerous carbonate stringers cutting core at 60 to 70 degrees with minor pyrrhotite and sphalerite blebs.	280.63	288.04	NS	-	-	-	-	-
286.66	289.18	basalt Gray-green, moderately broken with carbonate cement. Lower contact at 75 degrees.	288.04 288.19	288.19 290.17	WFX486120 NS	123 -	2 -	106 -	0.2 -	- -
289.18	290.14	argillite Gray and black, thinly bedded at 75 to 85 degrees. 2 to 3% pyrrhotite as blebs and fracture fillings. Trace galena and sphalerite in carbonate stringers.								
290.14	290.58	basalt As above basalt, contacts at 75 degrees.	290.17 290.32	290.32 301.75	WFX486121 NS	174 -	8 -	104 -	0.2 -	- -
290.58	290.75	argillite As above argillite, 3 to 5% pyrrhotite.								
290.75	319.81	basalt Gray-green, same as all other basalt	301.75	301.90	WFX486122	144	2	54	0.2	-

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		units. Chlorite common on fractures and tension gashes along with carbonate.	301.90	320.34	NS	-	-	-	-	-
319.81	320.42	vein Qtz-carbonate-axinite-chlorite vein. Contacts at 70 degrees.	320.34	320.50	WFX486123	98	2	20	0.2	-
320.42	327.36	basalt Same as above basalt.	320.50	322.17	NS	-	-	-	-	-
			322.17	322.33	WFX486124	153	2	60	0.2	-
			322.33	346.25	NS	-	-	-	-	-
327.36	327.66	fault Fault gouge with qtz-carbonate veining near lower contact. Minor sphalerite in the veining. Apparent faulting at 45 degrees to core axis.								
327.66	349.58	basalt Same as above basalt. Occasional qtz-carbonate-axinite-chlorite veins up to 15 cm wide, cutting the core at 45 to 70 degrees.	346.25	346.40	WFX486125	145	2	60	0.2	-
349.58	350.06	argillite Black carbonaceous argillite, 1 to 2% pyrrhotite. Bedding at 65 degrees Abundant carbonate stringer subparallel to bedding.								
350.06	350.26	tuff Gray-green tuff ? with a calcareous matrix. No sulphides.								
350.26	373.38	argillite Gray and black thinly bedded. Bedding at 75 degrees near upper contact gradually changing to 85 degrees at lower contact. Locally highly folded with minor offsets along fractures at 70 degrees. Fractures commonly coated with carbonate and/or pyrrhotite with trace of chalcopyrite. Argillite is locally carbonaceous and graphite occurs on numerous fractures. There								

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
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is a noticeable increase in the number and thickness of calcareous beds below 365.76 meters. Several beds up to 15 cm thick are basically a dirty limestone. It's possible that this is near the base of the argillite package and near the carbonate sequence. The argillite generally contains 1 to 2% pyrrhotite as disseminated specks and fracture fillings. There are a few beds up to an 2.5 cm thick that contain up to 25% pyrite and pyrrhotite but generally this argillite sequence is low in sulphides compared to the other argillites encountered higher up the hole. Foot of hole. All material removed.

BOREHOLE LOG

BOREHOLE : 87021
 PROJECT : HART RIVER
 PROPERTY NAME : HART RIVER
 MINE :

DATE PRINTED: 03/01/94

COUNTRY : CANADA
 PROV/STATE : YUKON
 NTS/QUADRANGLE : 116A/10
 TWP/COUNTY :
 SEC. T. R. :
 CLAIM NAME :
 GRID NAME : IETS
 UTM COORDINATES :
 ANOMALY # : W, K, J

NORTHING : 3945.00
 EASTING : 20315.00
 ELEVATION : 1146.05
 BOREHOLE BEARING : 040
 INCLINATION : -45
 HOLE LENGTH : 375.21
 ATTITUDE TEST METHOD: ACID

LEVEL : SURFACE
 HEADING :
 SECTION :
 BASELINE AZIMUTH : 90

LOGGED BY : ED HUNTER
 LOGGING STARTED :
 LOGGING COMPLETED :
 DRILLED BY : ADVANCED DRILLING Ltd.
 DRILL TYPE : BOYLES 25A
 CORE SIZE : BQ
 HOLE SIZE :
 STARTED : Sept. 1, 1993
 COMPLETED : Sept. 9, 1993

ASSAYED FOR : ICP 33 + Au

COMMENTS:*****

Drilled on ARM claim #13.
 LEFT IN HOLE :NOTHING

DEVIATION RECORDS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
0.00	40.00	-45.00	121.90	40.00	-42.50	243.80	40.00	-39.50
375.21	40.00	-37.50						

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
0.00	6.10	overburden								
			0.00	11.58	NS	-	-	-	-	-
6.10	27.74	basalt								
		Gray-green, fine to medium grained, locally coarse grained. Carbonate and chlorite abundant on fractures and tension gashes. Occassional qtz-carbonate-axinite-chlorite vein up to 7.5 cm wide at 30 to 40 degrees to	11.58	11.73	WFX486126 128	128	2	64	0.2	-
			11.73	36.58	NS	-	-	-	-	-

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		core axis. 2% pyrrhotite blebs near lower contact.								
27.74	29.06	argillite Gray to black thinly bedded. Upper contact and bedding at 30 degrees. Highly sheared lower contact at 15. 1% pyrrhotite disseminated and on fractures.								
29.06	49.99	basalt As above basalt.	36.58 36.73	36.73 61.87	WFX486127 NS	121 -	2 -	52 -	0.2 -	- -
49.99	52.91	argillite Gray to black, bedding 55 to 60 degrees. Abundant carb stringers subparallel to bedding. 1 to 2% Py-Po. Upper contact sharp at 40 degrees, lower contact sharp at 50 degrees.								
52.91	92.66	basalt Gray-green, fine to medium grained as at 27.74. Lower contact sharp at 45 degrees.	61.87 62.03	62.03 92.66	WFX486128 NS	165 -	2 -	56 -	0.2 -	- -
92.66	103.20	argillite Gray to black thinly bedded. Bedding varies from 45 to 60 degrees, locally distorted- probably slumping. 1 to 2% combined pyrite and pyrrhotite as disseminated specks, fracture fillings and as occasional 3 mm thick sulphide rich bed.	92.66 92.81	92.81 103.20	WFX486129 NS	134 -	2 -	100 -	0.2 -	- -
103.20	105.46	lapilli tuff Lapilli tuff? 90% elongated tuff clasts and 5% argillite clasts generally from 3 mm to 12 mm long but occasional clast up to several cms across. 3 to 6% pyrite as clots in the matrix, rimming clasts and apparently partially replacing clasts. No actual clasts of pyrite. Crudely bedded at 45 degrees.	103.20 104.24	104.24 105.46	FX486082 FX486083	139 138	20 2	72 56	0.6 0.4	5 5
105.46	111.86	tuff								

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		Black mafic tuff. Fine grained, indistinct bedding at 55 degrees. 1% disseminated pyrrhotite and minor pyrrhotite, chalcopyrite and sphalerite on carbonate filled fractures.	105.46	122.83	NS	-	-	-	-	-
111.86	122.83	mudstone Gray fine grained tuffaceous mudstone. Bedding at 55 degrees to 60 degrees. Pyrite occurs as clots, lenses and beds up to 2.5 cm across. Pyrite content averages 2 to 3% but locally reaches 6 to 8%.								
122.83	122.91	massive sulfide Massive fine grained pyrite bed with minor carbonate in the matrix.	122.83	122.91	FX486084	178	454	166	1.8	5
122.91	123.44	mudstone As above tuffaceous mudstone.	122.91	123.44	NS	-	-	-	-	-
123.44	124.02	lapilli tuff Lapilli tuff as from 103.2 to 105.46 meters.	123.44	124.02	FX486085	116	24	30	0.8	5
124.02	125.18	mudstone Gray to black fine grained tuffaceous sediment with highly distorted bedding. Occasional pyrite-carbonate lense.	124.02	125.03	FX486086	153	422	646	0.6	5
			125.03	125.46	FX486087	125	32	60	0.2	5
125.18	125.46	lapilli tuff As above lapilli tuff, 2 to 3% pyrite and pyrrhotite. Bedding at 45 degrees.								
125.46	126.34	tuff Black mafic tuff, indistinct bedding at 50 degrees. Locally up to 4% disseminated pyrite.	125.46	126.34	FX486088	216	56	520	0.4	5
126.34	131.98	lapilli tuff As above lapilli tuff.	126.34	127.86	FX486089	131	56	66	0.4	5
			127.86	129.39	FX486090	130	12	66	0.2	5
			129.39	130.91	FX486091	136	20	48	0.6	5
			130.91	131.98	FX486092	111	6	48	0.2	5
131.98	153.00	argillite								

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		Gray and black thinly bedded with numerous thin tuff beds. Bedding angle swings from 80 degrees to 10 degrees back to 80 degrees and back to 5 degrees .Occasional pyritic bed up to 12 mm thick but total pyrite-pyrrhotite content of core average only 1 to 2%. Rare carbonate sphalerite stringers parallel to bedding.	131.98	153.00	NS	-	-	-	-	-
153.00	154.07	lapilli tuff Lapilli tuff or possibly a grit with tuff clasts. 2 to 3% combined pyrite and pyrrhotite as blebs in the matrix and rims around some clasts. Minor sphalerite with the pyrite.	153.00	154.08	FX486093	181	18	190	0.2	5
154.07	170.07	argillite Gray and black thinly bedded with numerous thin carbonate beds. Bedding is extremely distorted by folding and step faulting. Offsetting fractures cut the core at 50 degrees. Offsets are generally right lateral. Occasional thin pyritic bed but sulphide content is generally only 1% pyrite and/or pyrrhotite.	154.08	253.29	NS	-	-	-	-	-
170.07	171.10	limestone Dirty limestone or very calcareous tuff. 2% finely disseminated pyrrhotite.								
171.10	219.67	argillite Gray, thinly bedded argillite with calcareous beds and tuffaceous beds. Bedding generally 35 degrees but locally distorted subparallel to core axis. Occasional thin bed of pyrrhotite. 1 to 2% disseminated pyrrhotite- locally up to 4%. Numerous hairline to 6 mm wide stringers of carbonate-quartz and pyrrhotite both subparallel to bedding and at right angles to bedding. The number of mafic tuff beds increase near the lower contact. Local graphite on fractures.								

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
219.67	223.72	tuff Black mafic tuff. Indistinct bedding at 50 degrees. 3 to 6% pyrrhotite and minor chalcopyrite as fine disseminated specks concentrated along select beds. Specks are elongated at right angles to bedding due to a microscopic cleavage direction.								
223.72	235.91	argillite As from 171.10 to 219.67 but bedding is at 70 to 80 degrees to core axis. Several carbonate-sphalerite filled hairline fractures cut the bedding at 15 degrees. Lower contact sharp at 55 degrees.								
235.91	240.67	tuff Gray-green, very similar in appearance to the basalt flows except that there is a distinctive fabric at 55 to 65 degrees. 10% qtz-carbonate veining subparallel to fabric with local concentrations of sphalerite. A little interbedded argillite near lower contact.								
240.67	246.64	argillite Gray thinly bedded at 60 to 70 degrees. 1 to 2% pyrrhotite mainly as fracture fillings and hairline beds. Bedding changes to 80 degrees at lower contact and beds become more and more tuffaceous with depth.								
246.64	249.90	tuff Gray-green fine grained laminated tuff with calcareous matrix.								
249.90	256.03	basalt Gray-green medium grained basalt. Abundant carbonate stringers at all angles with thin films of chlorite along the edges.	253.29 253.44	253.44 274.32	WFX486130 NS	134 -	6 -	54 -	0.2 -	- -
256.03	256.49	vein								

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		Qtz-carbonate-chlorite vein. Upper contact at 45 degrees, lower contact at 35 degrees.								
256.49	277.34	basalt								
		Gray-green, similar to other basalt flows except that the central portion is medium to coarse grained similar to some of the sills. Thin film of chlorite on fractures. Lower 3 feet has a fabric- possibly is a tuff.	274.32	274.47	WFX486131	133	2	82	0.2	-
			274.47	336.53	NS	-	-	-	-	-
277.34	336.53	argillite								
		Gray thinly bedded argillite interbedded with tuffaceous sediments and mafic tuff. Bedding generally 60 to 75 degrees with local folding or slumping but below 298.09 meters bedding ranges from 0 to 45 degrees. 1 to 2% combined pyrrhotite and/or pyrite in the argillite as very thin beds and blebs but from 3 to 5% pyrrhotite and minor sphalerite in the mafic tuff with individual beds from 3 mm thick to 2.5 cm thick of semi-massive pyrrhotite. Minor offsetting of beds along cleavage at 35 to 60 degrees. Cleavage cuts bedding at nearly right angles.								
336.53	338.27	dike								
		Gray green basalt dike (?) brecciated with Qtz-carbonate-chlorite cement but locally has pyrite cement, breccia clasts of argillite near the contacts and thermally altered upper contact.	336.53	338.27	FX486094	58	22	118	0.2	5
338.27	342.90	argillite								
		As above argillite, bedding 35 to 45 degrees.	338.27	348.84	NS	-	-	-	-	-
342.90	348.84	conglomerate								
		342.90 - 344.88 Interbedded argillite and dolomite conglomerate. Conglomerate has 90% rounded dolomite pebbles averaging 12 mm across and 10% argillite clasts*								
		344.88 - 348.84 Dolomite conglomerate								

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		with one 7.5 cm rounded clast of basalt with large reaction rim and 5% pyrite.								
348.84	349.22	dike Pale green basalt dike (?) noticeably altered with chilled margin. Heavy pyrite on lower contact at 50 degrees.	348.84	349.22	FX486095	154	48	68	0.2	5
349.22	349.79	hornfels A thermally altered dolomite (?) as a result of the dike emplacement. Local pyrite clots up to 2.5 cm across.	349.22	349.79	FX486096	44	122	104	0.6	5
349.79	355.70	conglomerate Dolomite conglomerate as above with 25% barren milky white qtz-carbonate veining.	349.79	355.70	NS	-	-	-	-	-
355.70	369.42	skarn Alternating light green and dark green bands or beds of apparently calc-silicate altered dolomite* 355.70 - 362.41 25% qtz-carbonate-chlorite veining with brecciated contacts. Graphite on some fractures* 362.41 - 369.42 Well bedded at 70 to 80 degrees with 2 to 5% pyrite and pyrrhotite as thin beds, clots and disseminations. 60 cm of lost core between 358.75 and 359.66.	355.70	358.75	FX486097	135	32	142	0.4	5
			358.75	361.80	FX486098	129	18	92	0.6	5
			361.80	364.85	FX486099	42	4	80	0.4	5
			364.85	367.89	FX486100	16	2	60	0.4	5
369.42	375.21	dolomite Gray-white dolomite, gradational upper contact. Minor disseminated pyrite. Bedding at 65 to 75 degrees. Foot of hole, all material removed								

BOREHOLE LOG

BOREHOLE : 87022
 PROJECT : HART RIVER
 PROPERTY NAME : HART RIVER
 MINE :

DATE PRINTED: 03/01/94

COUNTRY : CANADA
 PROV/STATE : YUKON
 NTS/QUADRANGLE : 116A/10
 TWP/COUNTY :
 SEC. T. R. :
 CLAIM NAME :
 GRID NAME : IETS
 UTM COORDINATES :
 ANOMALY # :

NORTHING : 3625.00
 EASTING : 20400.00
 ELEVATION : 1156.72
 BOREHOLE BEARING : 045
 INCLINATION : -52
 HOLE LENGTH : 367.89
 ATTITUDE TEST METHOD: ACID

LEVEL : SURFACE
 HEADING :
 SECTION :
 BASELINE AZIMUTH : 90

LOGGED BY : ED HUNTER
 LOGGING STARTED :
 LOGGING COMPLETED :
 DRILLED BY : ADVANCED DRILLING Ltd.
 DRILL TYPE : BOYLES 25A
 CORE SIZE : BQ
 HOLE SIZE :
 STARTED : SEPT. 10, 1993
 COMPLETED : SEPT. 18, 1993

ASSAYED FOR : ICP 33 + Au

COMMENTS:*****

Drilled on ARM #12 claim.
 LEFT IN HOLE :CASING

DEVIATION RECORDS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
0.00	45.00	-52.00						

FROM	TO	DESCRIPTION	FROM	TO	SAMPLE#	Cu	Pb	Zn	Ag	Au
M	M		M	M		PPM	PPM	PPM	PPM	PPB
0.00	11.28	overburden Boulders of siltstone and quartzite.	0.00	148.43	NS	-	-	-	-	-
11.28	40.23	siltstone 11.28 - 16.98 Thinly bedded purple siltstone with some interbedded green siltstone. Bedding at 75 degrees. 16.98 - 40.23 Green siltstone, probably tuffaceous, bedding at 70 to 80 degrees, a few thin beds of purple siltstone and of grit.								

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
40.23	146.33	tuff Fine grained gray-green to purple-gray tuff with some interbedded tuffaceous sediment. Generally distinctly banded at 75 to 80 degrees down to 103.63 then indistinctly banded down to 146.33 meters. A 5.0 cm and 10 cm vuggy quartz vein at 123.9 and 124.51 respectively cutting the core at 45 degrees. A 5 cm grit bed at 101.19 contains 3% combined chalcopyrite and pyrite.								
146.33	211.31	basalt 146.33 - 155.44 Dark green basalt with red hematitic fracture fillings rather than the usual carbonate-chlorite fillings. Heavy pyrite on occasional fractures. 155.44 - 211.31 Gray-green to dark green, carbonate-chlorite filled fractures. Numerous 5 to 30 cm wide quartz-carbonate-chlorite filled breccia zones with locally up to 5% pyrite. Occasional 2.5 to 5 cm wide gray cherty bands at 70 degrees. There's generally an increase in grain size and in chlorite adjacent to the cherty bands.	148.43 148.59 153.00 153.16 176.78 176.93 203.30 203.45 203.91 204.06	148.59 153.00 153.16 176.78 203.30 203.45 203.91 214.88	WFX486132 11 NS WFX486133 28 NS WFX486134 161 NS WFX486135 157 NS WFX486136 185 NS	- - 2 - 2 - 2 - 2 -	- - 94 - 70 - 68 - 62 -	0.2 - 0.2 - 0.2 - 0.2 - 0.2 -	- - - - - - - - - -	
211.31	212.44	argillite Gray argillite, contacts and bedding at 70 degrees. 1% pyrrhotite concentrated along bedding.								
212.44	213.26	basalt Gray-green basalt as above basalt.								
213.26	213.96	argillite Gray argillite with 1 to 2% pyrrhotite. Siliceous at upper contact.								
213.96	215.95	basalt Gray-green basalt as above.	214.88 215.03	215.03 216.40	WFX486137 147 NS	147 -	16 -	50 -	0.2 -	- -

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
215.95	216.22	argillite As above argillite but not siliceous, contacts sharp at 70 degrees.								
216.22	220.21	basalt Gray-green as above basalt.	216.40 216.56	216.56 221.89	WFX486138 NS	155 -	2 -	56 -	0.2 -	- -
220.21	221.58	argillite Dark gray to black, locally siliceous. Bedding at 50 to 60 degrees. Numerous squiggly qtz-carbonate stringers. Heavy pyrrhotite near lower contact.								
221.58	240.70	basalt Gray-green basalt as above but moderately to highly fractured and locally brecciated with carbonate-quartz-chlorite breccia cement and fracture filling. Minor pyrrhotite on fractures.	221.89 222.04 224.94 225.09 235.61 235.76	222.04 224.94 225.09 235.61 240.70	WFX486139 NS WFX486140 NS WFX486141 NS	100 - 115 - 23 -	2 - 2 - 20 -	72 - 46 - 62 -	0.2 - 0.2 - 0.2 -	- - - - - -
240.70	244.52	chert Gray thinly bedded very siliceous sediment. Local pyrrhotite concentrations along bedding up to 5%. Bedding at 60 degrees. Locally brecciated.	240.70 242.31	242.31 244.52	FX486148 FX486149	65 95	28 20	30 30	0.6 1.2	5 15
244.52	246.12	argillite Gray siliceous argillite, gradational contacts with above chert and indistinct contact with underlying basalt. Locally crackled with quartz-carbonate cement. 1% disseminated pyrrhotite.	244.52	246.12	FX486150	41	22	38	0.4	5
246.12	275.08	basalt Gray-green, varies from medium to coarse grained. Moderately to locally highly fractured with quartz-carbonate-chlorite fracture fillings.	246.12 251.15 251.30 265.78 265.93	251.15 251.30 265.78 275.08	NS WFX486142 NS WFX486143 NS	- 178 - 120 -	- 2 - 2 -	- 76 - 76 -	- 0.2 - 0.2 -	- - - - -
275.08	280.11	argillite Gray to black thinly bedded siliceous	275.08	276.75	FX486151	280	54	42	1.4	15

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		argillite with 7.5 cm cherty bed at upper contact. Bedding at 75 degrees. 3% to 8% pyrrhotite with minor chalcopyrite concentrated along bedding and on fractures. Several milky quartz veins from 2.5 to 7.5 cm wide contain blebs of sphalerite.	276.75	278.58	FX486152	214	38	482	1.8	15
			278.58	280.11	FX486153	168	40	3310	1.4	5
280.11	324.21	basalt								
		Gray green medium grained. Lower contact sharp at 55 degrees. Quartz-carbonate-chlorite coated fractures.	280.11	282.85	NS	-	-	-	-	-
			282.85	283.00	WFX486144	144	2	90	0.2	-
			283.00	317.60	NS	-	-	-	-	-
			317.60	317.75	WFX486145	149	2	72	0.2	-
			317.75	348.75	NS	-	-	-	-	-
324.21	338.93	argillite								
		Gray to black, thinly bedded, moderately broken. Bedding at 65 to 75 degrees. Some interbedded mafic tuff and gradational lower contact with mafic tuff. 1 to 2% pyrrhotite.								
338.93	348.75	tuff								
		Black mafic tuff, dense massive, indistinct bedding. 1 to 3% pyrrhotite with occasional semi-massive bed of pyrrhotite up to 2.5 cm thick.								
348.75	350.42	lapilli tuff								
		Gray, black and buff coloured subrounded lenticular clasts. Could be a grit. Many clasts partially replaced by pyrite. Pyrite-pyrrhotite content locally reaches 10%.	348.75	350.42	FX486154	196	60	358	1	10
350.42	350.59	massive sulfide								
		60% combined pyrite and pyrrhotite as beds. Pyrite forms 2.5 cm clots similar to that seen locally at the mark zone.	350.42	350.59	FX486155	300	392	80	2.6	80
350.59	352.16	lapilli tuff								
		Same as above lapilli tuff	350.59	352.16	FX486156	210	64	100	1.4	15
352.16	352.62	vein								
		Quartz-carbonate-chlorite vein with brecciated contacts.	352.16	352.62	FX486157	17	26	64	0.6	5
352.62	354.17	argillite								

FROM M	TO M	DESCRIPTION	FROM M	TO M	SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
		Gray cherty argillite with minor lapilli tuff beds. Crackled with quartz-carbonate fracture fillings.	352.62	354.17	FX486158	181	8	58	0.4	5
354.17	355.88	lapilli tuff Same as above lapilli tuff but with less pyritization of clasts.	354.17	355.88	FX486159	155	12	54	0.6	5
355.88	367.89	basalt Gray-green basalt similar to all the other basalt units except there is an apparent vesicular flow top about 10 cm thick at the upper contact. The upper contact is at 40 degrees. Foot of hole, casing left in and drill left on site.	355.88	357.22	NS	-	-	-	-	-
			357.22	357.37	WFX486146	127	2	78	0.2	-
			357.37	365.45	NS	-	-	-	-	-
			365.45	365.60	WFX486147	105	2	70	0.2	-

APPENDIX B - ASSAYS OF DRILL CORE SAMPLES

LIST OF BORE HOLES, SAMPLE NUMBERS AND CHEMICAL ANALYSIS
CERTIFICATES

MINERALIZED:

BH	FX	CERTIF #
87018	486001-027	A9320439
87019	486028-042	A9320593
87020	486043-081	A9321060
87021	486082-100	A9322367
87022	486148-159	A9322367

MAFIC ROCKS:

BH	FX	CERTIF #
87018	486101-106	A9322368
87020	486107-125	A9322368
87021	486126-131	A9322368
87022	486132-147	A9322368

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bs ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
FX486001	205	274	< 5	1.6	3.41	6	70	0.5	< 2	1.49	2.0	40	88	170	9.84	10	< 1	0.94	30	2.38	1205
FX486002	205	274	< 5	0.2	1.51	4	10	< 0.5	< 2	12.10	< 0.5	8	57	44	4.22	< 10	< 1	0.20	20	4.68	6400
FX486003	205	274	< 5	1.2	2.92	16	30	0.5	< 2	2.66	1.0	31	48	105	6.73	10	1	0.70	30	2.78	1875
FX486004	205	274	< 5	0.4	1.39	2	< 10	< 0.5	< 2	11.90	1.0	6	40	69	4.16	< 10	< 1	0.07	10	6.01	8040
FX486005	205	274	< 5	1.6	3.23	76	30	0.5	< 2	1.54	7.0	40	54	91	9.42	10	< 1	0.65	30	2.79	1415
FX486006	205	274	< 5	0.4	2.18	12	10	< 0.5	< 2	7.18	< 0.5	13	88	44	5.14	10	< 1	0.28	30	4.42	5020
FX486007	205	274	< 5	1.2	3.35	14	60	0.5	< 2	2.00	0.5	24	65	136	6.30	10	< 1	0.97	40	2.61	1870
FX486008	205	274	< 5	1.4	2.55	48	70	1.0	< 2	0.56	0.5	27	45	175	6.01	10	1	1.13	30	1.13	480
FX486009	205	274	< 5	1.4	2.88	54	90	1.0	< 2	0.49	0.5	32	39	207	7.42	10	< 1	1.32	30	1.14	530
FX486010	205	274	< 5	1.2	2.42	28	90	0.5	< 2	0.71	0.5	32	33	163	6.19	10	< 1	1.14	30	0.94	660
FX486011	205	274	< 5	1.0	2.28	32	80	0.5	< 2	1.80	0.5	29	29	201	5.67	10	< 1	1.08	40	0.90	1155
FX486012	205	274	< 5	1.0	1.97	14	70	0.5	< 2	0.49	1.0	25	25	162	5.22	10	< 1	0.90	30	0.75	525
FX486013	205	274	< 5	0.8	1.61	18	50	0.5	2	1.05	4.0	20	21	201	3.87	10	< 1	0.72	30	0.71	845
FX486014	205	274	< 5	1.0	1.95	14	60	0.5	< 2	1.11	1.5	24	22	197	5.37	10	< 1	0.87	30	0.83	955
FX486015	205	274	< 5	1.4	2.55	20	100	1.0	< 2	1.14	0.5	27	31	162	6.32	10	< 1	1.29	40	0.80	760
FX486016	205	274	< 5	1.8	2.41	40	100	0.5	< 2	0.91	< 0.5	20	31	168	6.80	10	< 1	1.27	40	0.72	595
FX486017	205	274	< 5	1.8	2.67	48	100	0.5	< 2	0.56	< 0.5	31	37	239	8.37	10	< 1	1.39	30	0.81	375
FX486018	205	274	< 5	0.4	1.71	6	30	0.5	< 2	>35.00	< 0.5	8	34	74	3.66	< 10	< 1	0.54	< 10	0.94	6720
FX486019	205	274	< 5	1.2	2.59	18	90	0.5	< 2	1.40	0.5	22	39	174	6.21	10	< 1	1.30	40	0.86	710
FX486020	205	274	< 5	1.6	2.42	28	70	0.5	< 2	1.54	2.0	25	32	148	6.73	10	< 1	1.08	30	1.11	1200
FX486021	205	274	< 5	1.4	2.08	14	60	0.5	< 2	1.16	2.0	23	34	148	6.38	10	< 1	0.94	30	0.85	565
FX486022	205	274	< 5	1.2	2.50	16	70	0.5	< 2	1.43	1.0	27	32	151	6.32	10	< 1	1.13	30	0.91	725
FX486023	205	274	< 5	1.2	2.68	2	60	0.5	6	1.06	1.0	26	48	153	7.20	10	< 1	0.93	30	1.18	650
FX486024	205	274	< 5	1.4	2.91	24	60	0.5	8	1.69	0.5	31	48	165	7.00	20	< 1	0.99	50	1.18	1015
FX486025	205	274	< 5	1.2	2.70	16	60	1.0	6	0.59	2.0	22	50	142	6.18	10	< 1	1.03	40	1.11	500
FX486026	205	274	< 5	1.6	2.77	24	40	0.5	2	0.94	1.0	31	63	136	7.91	10	< 1	0.97	30	1.27	730
FX486027	205	274	< 5	1.8	2.37	10	40	0.5	2	0.66	1.5	29	64	161	7.81	10	< 1	0.76	30	1.18	530
FX486028	208	274	30	1.4	1.90	26	40	1.0	< 2	0.37	1.0	14	25	212	3.77	10	2	0.92	30	0.82	170
FX486029	208	274	25	1.2	2.33	56	50	1.0	< 2	0.36	1.0	14	27	147	3.77	10	< 1	1.13	30	0.95	175
FX486030	208	274	25	1.4	2.34	56	40	1.0	< 2	0.34	1.5	14	30	238	3.80	10	< 1	1.16	30	0.96	160
FX486031	208	274	20	1.2	2.32	26	40	1.0	< 2	0.50	0.5	16	23	178	3.93	10	< 1	1.11	40	1.00	225
FX486032	208	274	20	1.2	2.20	14	40	1.0	< 2	0.68	5.0	14	32	194	3.60	10	1	1.05	40	0.93	240
FX486033	208	274	20	0.8	2.05	22	30	1.0	2	0.40	1.5	15	24	143	3.49	10	< 1	0.96	30	0.87	170
FX486034	208	274	25	0.6	1.60	24	30	0.5	< 2	0.44	< 0.5	12	22	164	2.94	< 10	< 1	0.74	30	0.73	160
FX486035	208	274	25	0.8	1.32	26	20	0.5	< 2	0.29	< 0.5	14	7	154	3.42	< 10	< 1	0.57	20	0.76	130
FX486036	208	274	25	0.8	1.60	22	30	0.5	< 2	0.41	0.5	14	18	169	3.34	< 10	< 1	0.73	30	0.82	165
FX486037	208	274	30	1.2	2.18	26	40	1.0	< 2	0.49	< 0.5	17	23	174	3.89	10	< 1	1.03	30	0.94	215
FX486038	208	274	35	1.2	2.18	16	50	1.0	4	0.28	0.5	12	37	223	3.20	10	< 1	1.09	30	0.85	140
FX486039	208	274	30	0.2	1.75	8	40	0.5	10	0.32	< 0.5	11	38	164	2.51	< 10	< 1	0.87	20	0.68	135
FX486040	208	274	30	0.8	1.72	24	30	0.5	< 2	0.48	< 0.5	10	29	221	2.58	< 10	< 1	0.91	20	0.65	185
FX486041	208	274	35	1.2	2.26	34	40	1.0	< 2	0.45	< 0.5	16	28	195	3.82	10	< 1	1.10	30	0.93	185
FX486042	208	274	30	0.8	2.02	30	30	1.0	< 2	0.37	< 0.5	13	40	136	3.25	10	< 1	0.99	30	0.89	185

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Fx486001	205	274	4	0.01	81	800	60	2	10	26	0.03	< 10	< 10	105	< 10	408
Fx486002	205	274	< 1	0.02	17	180	20	8	7	165	< 0.01	< 10	< 10	39	< 10	76
Fx486003	205	274	3	0.01	50	970	24	4	8	24	0.02	< 10	< 10	75	< 10	184
Fx486004	205	274	< 1	0.01	15	200	2	6	8	89	< 0.01	< 10	< 10	33	< 10	170
Fx486005	205	274	8	0.01	88	1940	70	4	7	18	0.02	< 10	< 10	96	< 10	1160
Fx486006	205	274	2	0.01	28	640	28	4	8	78	0.01	< 10	< 10	56	< 10	126
Fx486007	205	274	7	0.01	50	1300	40	< 2	7	24	0.03	< 10	< 10	116	< 10	150
Fx486008	205	274	9	0.02	70	1200	34	2	7	14	0.04	< 10	< 10	91	< 10	170
Fx486009	205	274	10	0.02	76	1570	40	< 2	9	11	0.05	< 10	< 10	107	< 10	178
Fx486010	205	274	6	0.02	67	1030	42	< 2	7	15	0.04	< 10	< 10	86	< 10	110
Fx486011	205	274	8	0.02	57	1040	30	2	7	30	0.03	< 10	< 10	81	< 10	134
Fx486012	205	274	6	0.02	55	930	30	2	5	11	0.03	< 10	< 10	68	< 10	146
Fx486013	205	274	6	0.02	43	1130	14	< 2	3	21	0.02	< 10	< 10	56	< 10	684
Fx486014	205	274	6	0.02	55	1070	32	2	6	24	0.03	< 10	< 10	72	< 10	244
Fx486015	205	274	9	0.02	66	1250	38	2	7	24	0.04	< 10	< 10	89	< 10	46
Fx486016	205	274	9	0.02	74	1220	50	< 2	6	23	0.04	< 10	< 10	84	< 10	42
Fx486017	205	274	8	0.02	95	1380	60	< 2	8	16	0.05	< 10	< 10	103	< 10	46
Fx486018	205	274	< 1	0.01	15	520	8	6	13	198	0.02	< 10	< 10	75	< 10	28
Fx486019	205	274	6	0.02	56	1310	36	< 2	8	26	0.04	< 10	< 10	87	< 10	148
Fx486020	205	274	5	0.02	64	1170	38	< 2	7	25	0.04	< 10	< 10	91	< 10	414
Fx486021	205	274	5	0.02	64	1120	40	< 2	6	23	0.03	< 10	< 10	70	< 10	332
Fx486022	205	274	6	0.02	60	910	40	< 2	8	24	0.04	< 10	< 10	85	< 10	236
Fx486023	205	274	4	0.02	60	930	40	4	9	15	0.03	< 10	< 10	103	< 10	162
Fx486024	205	274	5	0.02	64	1060	36	< 2	8	25	0.07	< 10	< 10	101	< 10	166
Fx486025	205	274	3	0.02	53	1070	38	4	8	10	0.06	< 10	< 10	100	< 10	434
Fx486026	205	274	4	0.02	68	1000	60	4	10	16	0.04	< 10	< 10	116	< 10	196
Fx486027	205	274	4	0.02	69	910	54	< 2	8	9	0.03	< 10	< 10	91	< 10	244
Fx486028	208	274	7	0.02	76	1140	26	< 2	4	10	0.03	< 10	< 10	118	< 10	392
Fx486029	208	274	6	0.02	67	1230	52	2	6	9	0.03	< 10	< 10	125	< 10	322
Fx486030	208	274	5	0.02	70	1220	56	4	6	9	0.03	< 10	< 10	143	< 10	452
Fx486031	208	274	6	0.01	80	1280	38	< 2	6	11	0.03	< 10	< 10	135	< 10	200
Fx486032	208	274	6	0.01	67	1200	38	< 2	5	15	0.03	< 10	< 10	147	< 10	966
Fx486033	208	274	6	0.01	69	1170	42	< 2	4	9	0.02	< 10	< 10	123	< 10	400
Fx486034	208	274	7	0.01	64	1000	34	2	3	9	0.02	< 10	< 10	82	< 10	134
Fx486035	208	274	3	0.01	66	1130	22	< 2	2	8	0.01	< 10	< 10	62	< 10	76
Fx486036	208	274	3	0.01	66	1250	38	< 2	3	10	0.02	< 10	< 10	82	< 10	138
Fx486037	208	274	4	0.01	77	1220	28	< 2	5	12	0.03	< 10	< 10	99	< 10	108
Fx486038	208	274	6	0.02	53	1080	24	< 2	6	8	0.03	< 10	< 10	151	< 10	146
Fx486039	208	274	7	< 0.01	54	940	22	< 2	4	8	0.03	< 10	< 10	118	< 10	84
Fx486040	208	274	7	0.01	58	800	40	< 2	4	10	0.02	< 10	< 10	116	< 10	124
Fx486041	208	274	8	0.01	81	1140	44	< 2	6	10	0.03	< 10	< 10	122	< 10	156
Fx486042	208	274	3	0.01	61	1040	14	< 2	5	9	0.02	< 10	< 10	96	< 10	102

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SAMPLE	PREP CODE	Au ppd FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
FX486043	205 274	15	0.8	2.13	56	20	< 0.5	2	1.69	1.0	73	49	175	8.22	< 10	< 1	0.32	40	1.80	865
FX486044	205 274	< 5	< 0.2	3.03	44	20	< 0.5	< 2	1.66	< 0.5	23	49	77	6.01	< 10	< 1	0.25	40	2.17	1055
FX486045	205 274	20	1.6	2.94	50	30	< 0.5	< 2	0.93	6.5	73	57	280	11.45	< 10	2	0.42	30	2.34	960
FX486046	205 274	15	0.8	3.64	48	30	< 0.5	< 2	1.44	4.5	31	73	191	7.56	< 10	< 1	0.32	40	2.61	1240
FX486047	205 274	45	1.4	2.50	40	30	< 0.5	< 2	1.79	3.5	84	68	275	10.60	< 10	1	0.47	40	1.88	940
FX486048	205 274	15	0.6	3.46	72	30	1.0	2	1.42	1.0	55	75	194	6.94	< 10	< 1	0.40	40	2.51	1180
FX486049	205 274	< 5	0.2	2.99	44	30	1.0	2	1.53	< 0.5	36	87	207	6.11	< 10	< 1	0.39	40	2.11	1005
FX486050	205 274	20	1.2	2.81	18	30	< 0.5	4	0.93	4.5	48	65	211	8.58	< 10	1	0.35	30	2.24	995
FX486051	205 274	90	3.2	2.18	262	30	< 0.5	< 2	0.85	6.0	64	80	415	>15.00	< 10	3	0.66	40	1.53	655
FX486052	205 274	45	1.6	2.36	106	50	< 0.5	< 2	0.65	0.5	56	49	216	12.30	< 10	< 1	0.76	30	1.57	590
FX486053	205 274	10	0.2	3.22	48	40	1.0	< 2	0.93	1.0	33	63	139	6.60	< 10	2	0.59	40	2.13	990
FX486054	205 274	30	1.0	3.13	82	50	0.5	< 2	0.70	2.5	75	61	202	8.92	< 10	3	0.66	40	2.04	845
FX486055	205 274	20	0.4	3.34	78	40	1.0	2	1.18	4.5	67	70	238	7.86	< 10	2	0.59	50	2.20	975
FX486056	205 274	10	0.2	3.36	70	40	1.5	4	1.04	0.5	49	66	289	6.25	< 10	< 1	0.47	50	2.21	1015
FX486057	205 274	10	0.4	2.85	80	40	1.0	4	0.78	1.5	30	66	254	5.40	< 10	1	0.52	40	1.79	865
FX486058	205 274	20	1.2	2.82	78	40	0.5	< 2	0.74	10.0	54	47	183	8.44	< 10	4	0.48	40	2.05	1100
FX486059	205 274	20	1.0	3.04	38	40	< 0.5	< 2	0.72	4.5	46	56	284	11.15	< 10	4	0.55	40	2.25	1275
FX486060	205 274	15	1.4	3.04	58	80	0.5	< 2	0.77	1.0	38	56	232	10.60	< 10	2	0.90	40	2.03	1065
FX486061	205 274	45	2.6	2.67	196	80	< 0.5	< 2	0.48	< 0.5	49	56	440	>15.00	< 10	5	1.02	20	1.44	640
FX486062	205 274	45	2.6	2.79	180	70	< 0.5	< 2	0.76	< 0.5	45	47	378	>15.00	< 10	6	0.84	40	1.86	865
FX486063	205 274	15	0.6	2.96	74	80	0.5	< 2	0.99	5.0	33	55	266	9.53	< 10	1	0.89	40	1.95	910
FX486064	205 274	45	2.4	2.28	168	50	< 0.5	< 2	0.63	6.0	56	44	283	>15.00	< 10	3	0.67	30	1.49	775
FX486065	205 274	10	0.8	3.22	46	50	0.5	< 2	0.66	2.0	32	58	238	9.45	< 10	2	0.59	40	2.28	1155
FX486066	205 274	< 5	1.0	4.69	46	30	0.5	< 2	0.70	1.0	33	80	286	9.88	< 10	< 1	0.39	30	3.39	1770
FX486067	205 274	< 5	0.6	3.60	34	50	0.5	2	0.68	< 0.5	29	58	188	10.05	< 10	2	0.60	50	2.58	1390
FX486068	205 274	30	1.8	2.64	154	60	< 0.5	< 2	0.57	< 0.5	43	47	188	>15.00	< 10	3	0.72	30	1.80	835
FX486069	205 274	10	0.8	2.76	102	60	0.5	< 2	0.56	< 0.5	28	58	134	11.45	< 10	2	0.77	30	1.92	880
FX486070	205 274	10	1.8	2.56	138	70	< 0.5	< 2	0.56	< 0.5	35	86	182	>15.00	< 10	3	0.84	20	1.57	670
FX486071	205 274	10	1.4	2.86	118	70	0.5	4	0.68	< 0.5	46	65	190	10.65	< 10	2	0.91	20	1.78	750
FX486072	205 274	< 5	0.4	2.71	66	30	0.5	8	4.32	8.5	28	73	246	5.86	< 10	6	0.44	60	2.00	1445
FX486073	205 274	< 5	0.6	3.73	24	< 10	0.5	2	0.87	< 0.5	23	67	130	8.09	< 10	2	0.04	30	4.07	780
FX486074	205 274	< 5	0.6	3.94	< 2	< 10	0.5	< 2	0.80	< 0.5	29	76	150	10.20	< 10	1	0.03	30	4.25	765
FX486075	205 274	< 5	0.2	3.72	4	30	0.5	2	1.02	1.5	23	76	100	7.33	< 10	< 1	0.37	60	2.73	1270
FX486076	205 274	15	1.6	2.86	86	90	< 0.5	< 2	0.69	< 0.5	39	65	204	>15.00	< 10	6	1.08	30	1.66	630
FX486077	205 274	10	0.6	2.82	112	90	1.0	2	1.21	< 0.5	27	65	118	6.95	< 10	3	1.11	30	1.61	815
FX486078	205 274	55	2.2	3.56	206	90	< 0.5	< 2	0.71	< 0.5	95	79	364	>15.00	< 10	4	1.06	40	2.34	1225
FX486079	205 274	20	1.2	3.41	64	70	0.5	4	0.93	2.0	49	76	327	8.32	< 10	4	0.72	40	2.22	1380
FX486080	205 274	10	0.6	3.69	38	40	0.5	< 2	1.49	1.5	47	74	198	8.51	< 10	< 1	0.45	30	2.62	2210
FX486081	205 274	60	1.2	2.61	46	30	< 0.5	2	0.74	1.5	103	48	295	12.60	< 10	< 1	0.45	20	2.04	820

↑
 BH
 20
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SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
FX486043	↑	205 274	8	0.02	78	1390	126	4	6	10	0.17	< 10	< 10	81	< 10	344
FX486044		205 274	< 1	0.02	34	1290	10	4	7	10	0.24	< 10	< 10	65	< 10	46
FX486045		205 274	6	0.02	76	1250	398	2	7	8	0.27	< 10	< 10	115	< 10	1720
FX486046		205 274	< 1	0.03	45	1510	54	< 2	11	9	0.29	< 10	< 10	108	< 10	986
FX486047		205 274	5	0.03	91	1300	246	2	10	23	0.30	< 10	< 10	128	< 10	910
FX486048	BH 20	205 274	1	0.04	56	1480	42	< 2	13	10	0.39	< 10	< 10	149	< 10	378
FX486049		205 274	< 1	0.04	50	1690	46	< 2	10	14	0.28	< 10	< 10	104	< 10	188
FX486050		205 274	4	0.04	58	1380	98	< 2	8	10	0.22	< 10	< 10	151	< 10	1060
FX486051		205 274	8	0.02	183	1480	772	6	9	18	0.23	< 10	< 10	92	< 10	1825
FX486052		205 274	3	0.04	125	1440	372	6	9	8	0.33	< 10	< 10	160	< 10	580
FX486053	↓	205 274	1	0.04	54	1970	22	4	11	11	0.35	< 10	< 10	133	< 10	462
FX486054		205 274	9	0.04	80	1350	216	6	12	8	0.37	< 10	< 10	193	< 10	1025
FX486055		205 274	2	0.04	63	1580	160	< 2	13	10	0.37	< 10	< 10	123	< 10	1160
FX486056		205 274	< 1	0.04	57	1940	36	2	12	13	0.35	< 10	< 10	115	< 10	284
FX486057		205 274	< 1	0.04	47	1440	52	2	10	10	0.29	< 10	< 10	119	< 10	588
FX486058	↓	205 274	10	0.03	66	1840	414	8	9	10	0.27	< 10	< 10	165	< 10	3020
FX486059		205 274	4	0.03	95	1510	232	< 2	9	10	0.32	< 10	< 10	132	< 10	1330
FX486060		205 274	4	0.04	82	1200	52	4	11	11	0.42	< 10	< 10	150	< 10	436
FX486061		205 274	1	0.03	150	810	170	6	10	6	0.32	< 10	< 10	134	< 10	134
FX486062		205 274	6	0.03	152	820	130	8	10	10	0.35	< 10	< 10	144	< 10	232
FX486063	↓	205 274	4	0.04	89	1050	144	6	10	9	0.40	< 10	< 10	164	< 10	1480
FX486064		205 274	4	0.03	161	840	470	4	8	6	0.33	< 10	< 10	119	< 10	2180
FX486065		205 274	2	0.04	72	1070	186	4	12	7	0.40	< 10	< 10	151	< 10	890
FX486066		205 274	1	0.03	57	1040	84	6	22	7	0.47	< 10	< 10	301	< 10	502
FX486067		205 274	2	0.03	58	1310	28	4	13	8	0.38	< 10	< 10	166	< 10	102
FX486068	↓	205 274	1	0.04	120	740	162	4	11	6	0.33	< 10	< 10	132	< 10	80
FX486069		205 274	3	0.06	89	960	62	4	11	6	0.35	< 10	< 10	150	< 10	74
FX486070		205 274	1	0.04	143	990	188	2	11	6	0.34	< 10	< 10	143	< 10	92
FX486071		205 274	7	0.04	152	1130	88	< 2	12	7	0.42	< 10	< 10	176	< 10	170
FX486072		205 274	3	0.04	102	1150	18	6	11	21	0.34	< 10	< 10	203	< 10	1670
FX486073	↓	205 274	5	0.05	65	900	10	< 2	14	5	0.34	< 10	< 10	189	< 10	116
FX486074		205 274	7	0.06	85	890	12	< 2	17	5	0.42	< 10	< 10	219	< 10	114
FX486075		205 274	3	0.04	90	1050	< 2	< 2	13	8	0.36	< 10	< 10	212	< 10	332
FX486076		205 274	3	0.03	124	1010	140	4	11	7	0.37	< 10	< 10	123	< 10	58
FX486077		205 274	7	0.04	65	1440	64	4	10	12	0.40	< 10	< 10	124	< 10	76
FX486078	↓	205 274	6	0.03	174	1400	220	4	12	8	0.37	< 10	< 10	171	< 10	110
FX486079		205 274	4	0.04	99	1560	64	8	11	9	0.39	< 10	< 10	148	< 10	536
FX486080		205 274	2	0.03	58	1460	6	< 2	9	9	0.32	< 10	< 10	113	< 10	390
FX486081		205 274	3	0.02	96	980	106	< 2	6	8	0.25	< 10	< 10	117	< 10	318



Chemex Labs Ltd.

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VANCOUVER, BC
V6C 2X8

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Account :KPJF

Project : 60553
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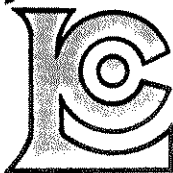
CERTIFICATE OF ANALYSIS A9322367

87021

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SAMPLE	PREP CODE		Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	FA+AA		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
FX486082	205	274	< 5	0.6	3.85	2	60	< 0.5	4	7.00	< 0.5	33	161	139	8.98	10	< 1	0.78	40	1.92	4990
FX486083	205	274	< 5	0.4	3.19	54	30	< 0.5	< 2	5.32	< 0.5	35	132	138	7.86	10	< 1	0.40	40	1.73	3290
FX486084	205	274	< 5	1.8	2.02	74	60	< 0.5	< 2	1.77	< 0.5	55	132	178	>15.00	< 10	< 1	0.81	30	0.79	1435
FX486085	205	274	< 5	0.8	2.59	26	80	< 0.5	< 2	8.28	< 0.5	53	106	116	7.26	10	< 1	1.12	40	2.93	8060
FX486086	205	274	< 5	0.6	1.65	50	90	0.5	< 2	4.44	1.5	46	42	153	5.91	10	< 1	0.97	60	1.25	4590
FX486087	205	274	< 5	0.2	2.44	36	70	0.5	2	7.47	< 0.5	40	96	125	5.06	10	< 1	0.94	40	1.80	4040
FX486088	205	274	< 5	0.4	1.03	62	70	< 0.5	< 2	1.50	1.0	54	19	216	5.05	< 10	< 1	0.70	40	0.33	895
FX486089	205	274	< 5	0.4	4.40	< 2	30	< 0.5	< 2	6.76	< 0.5	33	197	131	8.96	10	< 1	0.39	30	2.57	3380
FX486090	205	274	< 5	< 0.2	4.48	< 2	50	< 0.5	< 2	6.07	< 0.5	31	183	130	8.82	10	< 1	0.50	30	2.66	3520
FX486091	205	274	< 5	0.6	3.49	18	80	< 0.5	< 2	6.59	< 0.5	41	147	136	7.41	10	< 1	0.71	40	1.90	3160
FX486092	205	274	< 5	0.2	2.94	12	70	< 0.5	< 2	7.29	< 0.5	34	129	111	6.59	10	< 1	0.65	40	2.35	5230
FX486093	205	274	< 5	0.2	2.96	< 2	80	< 0.5	2	2.87	1.0	29	51	181	6.75	10	< 1	0.90	50	1.43	3650
FX486094	205	274	< 5	0.2	3.97	40	90	< 0.5	< 2	4.65	< 0.5	41	152	58	7.45	10	< 1	0.46	40	2.37	3980
FX486095	205	274	< 5	0.2	3.44	70	170	1.0	2	6.06	< 0.5	60	182	154	4.03	10	< 1	1.07	30	1.74	3870
FX486096	205	274	< 5	0.6	4.27	72	60	< 0.5	< 2	4.65	< 0.5	71	78	44	9.70	10	< 1	0.31	40	3.17	4000
FX486097	205	274	< 5	0.4	2.87	22	100	< 0.5	< 2	2.66	< 0.5	32	169	135	5.94	10	< 1	0.52	40	1.50	2370
FX486098	205	274	< 5	0.6	3.26	68	110	< 0.5	< 2	1.13	< 0.5	37	92	129	8.18	10	< 1	0.38	40	1.67	1495
FX486099	205	274	< 5	0.4	3.87	< 2	< 10	< 0.5	< 2	1.69	< 0.5	19	30	42	12.40	10	< 1	0.02	40	1.86	3420
FX486100	205	274	< 5	0.4	4.17	< 2	90	< 0.5	< 2	1.88	< 0.5	20	29	16	8.69	10	< 1	0.26	50	2.49	2440
FX486148	205	274	< 5	0.6	1.68	14	20	< 0.5	< 2	2.34	< 0.5	31	58	65	4.92	< 10	< 1	0.21	30	1.40	930
FX486149	205	274	15	1.2	2.29	8	20	< 0.5	6	0.58	< 0.5	25	57	95	5.23	< 10	< 1	0.20	10	1.92	515
FX486150	205	274	< 5	0.4	2.69	4	10	< 0.5	4	1.14	< 0.5	22	53	41	5.20	10	< 1	0.14	20	2.19	745
FX486151	205	274	15	1.4	2.64	16	20	< 0.5	4	1.12	< 0.5	28	57	280	7.41	< 10	< 1	0.26	20	2.34	555
FX486152	205	274	15	1.8	2.85	32	40	< 0.5	2	0.82	2.0	41	43	214	9.53	< 10	< 1	0.51	30	2.21	495
FX486153	205	274	< 5	1.4	3.80	< 2	20	< 0.5	4	0.81	13.5	29	79	168	7.87	< 10	5	0.22	20	3.24	900
FX486154	205	274	10	1.0	3.36	26	80	< 0.5	4	1.58	1.5	30	48	196	8.53	10	< 1	0.77	40	1.89	1880
FX486155	205	274	80	2.6	2.05	100	50	< 0.5	< 2	1.98	< 0.5	24	69	300	>15.00	10	< 1	0.54	30	1.09	1670
FX486156	205	274	15	1.4	3.08	56	100	0.5	< 2	0.75	< 0.5	52	46	210	7.14	10	< 1	1.06	40	1.48	1080
FX486157	205	274	< 5	0.6	2.30	32	10	< 0.5	6	6.93	< 0.5	20	150	17	4.48	20	< 1	0.21	40	2.78	5190
FX486158	205	274	< 5	0.4	2.07	26	20	< 0.5	2	1.58	< 0.5	13	85	181	3.93	10	1	0.30	30	1.51	2140
FX486159	205	274	< 5	0.6	3.54	< 2	40	< 0.5	2	1.75	< 0.5	17	57	155	6.90	10	< 1	0.44	40	2.11	1865

CERTIFICATION: Edward Hunter



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221

To: INCO EXPLORATION AND TECHNICAL SERVICES INC.
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 2690 - 666 BURRARD ST.
 VANCOUVER, BC
 V6C 2X8

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 18-OCT-93
 Invoice No. : I9322367
 P.O. Number :
 Account : KPJF

Project : 60553
 Comments : ATTN: EDWARD HUNTER

CERTIFICATE OF ANALYSIS A9322367

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
FX486082	205 274	< 1	0.02	84	450	20	8	18	74	0.11	< 10	< 10	142	30	72
FX486083	205 274	1	0.01	78	510	< 2	6	12	57	0.02	< 10	< 10	103	10	56
FX486084	205 274	6	0.01	140	500	452	14	6	23	0.02	< 10	< 10	56	20	166
FX486085	205 274	1	0.02	111	400	24	8	19	106	0.02	< 10	< 10	101	20	30
FX486086	205 274	5	0.01	70	920	422	8	8	48	0.01	< 10	< 10	46	10	646
FX486087	205 274	< 1	0.02	65	340	32	8	14	74	0.01	< 10	< 10	89	10	60
FX486088	205 274	10	0.02	77	1020	56	6	4	19	0.01	< 10	< 10	33	< 10	520
FX486089	205 274	< 1	0.02	93	240	6	4	17	65	0.01	< 10	< 10	162	20	66
FX486090	205 274	1	0.02	90	250	12	6	18	60	0.01	< 10	< 10	161	10	66
FX486091	205 274	2	0.02	87	440	20	6	17	60	0.01	< 10	< 10	130	10	48
FX486092	205 274	1	0.02	72	420	6	2	16	68	0.01	< 10	< 10	102	20	48
FX486093	205 274	4	0.02	57	860	18	4	11	28	0.03	< 10	< 10	76	< 10	190
FX486094	205 274	3	0.01	64	610	22	8	13	97	0.02	< 10	< 10	131	10	118
FX486095	205 274	1	0.03	88	470	48	2	23	52	0.02	< 10	< 10	173	< 10	68
FX486096	205 274	1	0.02	78	710	122	6	20	47	0.01	< 10	< 10	234	20	104
FX486097	205 274	3	0.02	47	730	32	2	9	35	0.01	< 10	< 10	69	10	142
FX486098	205 274	9	< 0.01	62	1130	18	4	5	15	0.02	< 10	< 10	56	10	92
FX486099	205 274	1	< 0.01	13	500	4	< 2	5	25	0.06	< 10	< 10	29	10	80
FX486100	205 274	< 1	0.01	14	460	< 2	< 2	5	21	0.04	< 10	< 10	26	10	60
FX486148	205 274	2	0.01	38	730	28	4	5	12	0.11	< 10	< 10	52	< 10	30
FX486149	205 274	1	< 0.01	35	570	20	6	6	4	0.15	< 10	< 10	76	10	30
FX486150	205 274	1	< 0.01	27	490	22	6	7	6	0.15	< 10	< 10	77	< 10	38
FX486151	205 274	7	0.01	55	1020	54	2	5	7	0.19	< 10	< 10	94	10	42
FX486152	205 274	12	0.01	72	1280	38	6	7	7	0.31	< 10	< 10	80	10	482
FX486153	205 274	15	0.01	55	630	40	4	11	6	0.29	< 10	< 10	125	10	3310
FX486154	205 274	6	0.01	76	990	60	8	8	20	0.02	< 10	< 10	87	10	358
FX486155	205 274	4	0.01	98	570	392	10	6	32	0.01	< 10	< 10	63	20	80
FX486156	205 274	9	0.01	97	1180	64	8	8	12	0.02	< 10	< 10	85	10	100
FX486157	205 274	2	0.01	38	400	26	10	7	128	< 0.01	< 10	< 10	48	10	64
FX486158	205 274	4	< 0.01	27	550	8	4	4	17	0.01	< 10	< 10	53	< 10	58
FX486159	205 274	8	0.01	51	1120	12	4	7	15	0.06	< 10	< 10	91	10	54

BH 21
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CERTIFICATION: Hunt/Buehler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: INCO EXPLORATION AND TECHNICAL SERVICES INC.
 ATTN: EDWARD HUNTER
 2690 - 666 BURRARD ST.
 VANCOUVER, BC
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Page Number :1-A
 Total Pages :2
 Certificate Date: 20-OCT-93
 Invoice No. :19322368
 P.O. Number :
 Account :KPJF

Project : 60553
 Comments: ATTN: EDWARD HUNTER

CERTIFICATE OF ANALYSIS A9322368

SAMPLE	PREP CODE	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %	Ba ppm
FX486101	208 274	14.03	7.88	0.02	13.76	0.81	7.55	0.20	3.30	0.09	48.13	1.07	2.36	99.20	180
FX486102	208 274	13.06	7.99	< 0.01	12.11	0.76	7.35	0.20	3.59	0.07	49.01	1.03	4.02	99.20	130
FX486103	208 274	15.08	1.69	0.01	14.31	2.72	11.68	0.17	1.39	0.08	44.14	1.20	6.68	99.15	130
FX486104	208 274	16.13	1.01	< 0.01	17.63	2.04	10.27	0.34	0.52	0.09	42.20	1.26	6.79	98.29	190
FX486105	208 274	14.20	6.88	0.01	12.84	0.61	7.76	0.20	1.95	0.09	50.37	1.14	3.65	99.70	120
FX486106	208 274	13.35	8.64	0.02	12.64	0.55	7.55	0.21	2.62	0.09	48.73	1.00	4.42	99.82	110
FX486107	208 274	12.52	11.86	0.02	12.42	0.64	7.22	0.23	2.05	0.08	47.07	0.94	4.87	99.92	90
FX486108	208 274	17.20	1.53	0.01	17.69	2.71	11.83	0.29	0.32	0.04	37.72	1.27	7.01	97.62	140
FX486109	208 274	13.66	9.90	< 0.01	11.01	0.99	7.35	0.24	2.08	0.04	48.37	0.91	4.44	99.00	130
FX486110	208 274	15.69	9.46	0.01	9.15	0.58	4.84	0.24	4.74	0.06	44.07	1.03	9.33	99.20	30
FX486111	208 274	14.13	9.36	0.01	11.75	0.75	8.33	0.19	2.34	0.04	49.37	1.00	2.55	99.82	90
FX486112	208 274	14.09	8.23	0.01	13.77	0.37	8.74	0.21	3.19	0.04	46.65	0.98	3.40	99.68	30
FX486113	208 274	14.43	8.99	< 0.01	12.01	1.05	7.81	0.19	2.73	0.04	49.16	1.00	2.34	99.76	150
FX486114	208 274	14.70	6.41	< 0.01	12.12	0.52	9.46	0.25	1.96	0.06	49.09	1.18	3.98	99.74	70
FX486115	208 274	14.17	8.23	0.01	10.13	1.08	6.79	0.35	2.32	0.06	48.68	0.94	7.56	100.30	130
FX486116	208 274	14.51	5.74	0.02	12.30	0.43	7.07	0.39	2.92	0.05	47.33	0.86	7.77	99.39	40
FX486117	208 274	16.04	6.91	0.01	12.86	4.32	8.11	0.37	0.83	0.05	38.60	1.06	9.66	98.82	470
FX486118	208 274	15.08	6.17	0.02	12.25	2.12	6.94	0.28	2.41	0.07	49.04	0.98	4.73	100.10	250
FX486119	208 274	13.07	10.81	< 0.01	11.25	1.20	6.42	0.37	2.05	0.04	43.77	0.85	8.11	97.95	150
FX486120	208 274	12.76	10.65	0.02	11.37	0.63	5.95	0.35	2.39	0.07	44.75	0.84	10.87	100.65	90
FX486121	208 274	15.40	5.06	0.01	11.21	1.10	6.62	0.23	2.82	0.08	50.26	1.17	6.74	100.70	110
FX486122	208 274	13.16	7.39	< 0.01	12.94	0.61	7.92	0.24	3.56	0.06	47.98	1.04	3.05	97.96	140
FX486123	208 274	15.00	17.10	< 0.01	10.20	0.01	3.82	0.53	0.13	0.02	46.00	0.41	2.26	95.49	10
FX486124	208 274	14.23	8.60	< 0.01	13.14	1.69	7.53	0.22	2.51	0.06	49.08	1.06	1.93	100.05	390
FX486125	208 274	13.71	7.60	0.01	11.84	0.67	7.34	0.20	3.30	0.07	48.26	1.08	5.21	99.29	160
FX486126	208 274	13.50	8.61	0.02	12.57	1.12	8.51	0.20	2.24	0.05	48.00	0.85	2.68	98.35	130
FX486127	208 274	14.35	8.95	0.05	11.38	0.98	8.43	0.18	2.19	0.07	48.92	0.87	2.85	99.22	120
FX486128	208 274	14.52	6.12	0.07	12.42	0.38	6.92	0.21	4.62	0.11	48.87	1.10	4.67	100.00	50
FX486129	208 274	13.17	8.86	0.08	11.36	0.84	6.87	0.22	1.79	0.10	45.57	0.93	10.15	99.94	70
FX486130	208 274	15.47	10.70	0.10	10.45	2.52	4.05	0.57	2.69	0.12	40.60	1.15	10.43	98.85	140
FX486131	208 274	14.03	9.77	0.09	10.88	0.62	6.48	0.27	2.51	0.10	44.39	0.97	7.68	97.79	140
FX486132	208 274	13.71	8.10	0.08	18.50	0.91	7.39	0.43	0.95	0.11	34.80	1.05	11.73	97.76	270
FX486133	208 274	10.86	8.06	0.08	19.60	2.11	5.56	0.26	1.13	0.11	39.32	0.77	9.81	97.67	390
FX486134	208 274	13.53	8.00	0.13	11.61	2.28	7.86	0.20	2.36	0.15	48.93	1.02	3.13	99.20	330
FX486135	208 274	13.23	8.83	0.14	12.18	0.67	8.25	0.20	1.93	0.14	47.95	0.92	2.93	97.37	110
FX486136	208 274	16.33	1.61	< 0.01	14.57	4.92	10.14	0.22	0.03	0.01	42.90	1.21	5.87	97.82	550
FX486137	208 274	13.78	7.44	< 0.01	11.69	2.31	5.17	0.22	1.79	0.02	46.60	1.05	7.49	97.57	210
FX486138	208 274	16.72	1.45	< 0.01	13.51	6.36	8.89	0.20	< 0.01	0.03	44.62	1.11	5.32	98.23	620
FX486139	208 274	14.70	2.08	< 0.01	17.60	2.03	12.09	0.27	< 0.01	< 0.01	41.00	1.01	6.86	97.67	120
FX486140	208 274	14.85	1.99	< 0.01	12.60	4.83	9.75	0.22	< 0.01	0.02	46.97	1.00	6.00	98.25	270

BH 18
 BH 20
 BH 21
 BH 22

CERTIFICATION: Edward Hunter



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Page Number : 1-B
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P.O. Number :
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CERTIFICATE OF ANALYSIS A9322368

SAMPLE	PREP CODE	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm	Ag ppm	As ppm	Bi ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
FX486101	208 274	15	180	< 10	50	20	< 0.2	< 2	< 2	163	< 1	1	8	< 2	80
FX486102	208 274	15	140	< 10	40	20	< 0.2	< 2	< 2	166	< 1	< 1	2	< 2	74
FX486103	208 274	40	20	< 10	50	20	< 0.2	< 2	< 2	196	< 1	1	2	< 2	128
FX486104	208 274	15	10	< 10	50	20	< 0.2	50	< 2	289	< 1	1	30	4	392
FX486105	208 274	10	60	< 10	50	20	< 0.2	< 2	< 2	163	< 1	< 1	2	2	84
FX486106	208 274	< 5	90	< 10	40	20	< 0.2	8	< 2	144	1	< 1	2	4	72
FX486107	208 274	< 5	80	< 10	40	20	< 0.2	< 2	< 2	145	< 1	< 1	< 2	< 2	66
FX486108	208 274	20	10	< 10	50	30	< 0.2	8	< 2	69	< 1	< 1	< 2	< 2	78
FX486109	208 274	10	90	< 10	50	20	< 0.2	< 2	< 2	143	< 1	< 1	< 2	2	54
FX486110	208 274	10	50	< 10	50	20	< 0.2	34	< 2	155	1	1	8	< 2	580
FX486111	208 274	15	140	< 10	50	20	< 0.2	6	< 2	131	1	< 1	2	< 2	74
FX486112	208 274	< 5	100	< 10	50	30	< 0.2	2	< 2	118	2	1	< 2	4	56
FX486113	208 274	20	150	< 10	50	20	< 0.2	6	< 2	154	2	< 1	< 2	2	52
FX486114	208 274	< 5	70	< 10	60	30	< 0.2	6	< 2	141	1	1	2	< 2	64
FX486115	208 274	15	70	< 10	50	20	< 0.2	4	< 2	144	1	1	< 2	2	80
FX486116	208 274	< 5	70	< 10	40	20	< 0.2	< 2	< 2	120	1	< 1	10	< 2	126
FX486117	208 274	40	50	< 10	60	20	< 0.2	24	< 2	150	1	< 1	< 2	< 2	28
FX486118	208 274	35	70	< 10	50	20	< 0.2	< 2	< 2	140	< 1	< 1	< 2	< 2	102
FX486119	208 274	15	70	< 10	50	20	< 0.2	< 2	< 2	125	< 1	< 1	< 2	< 2	78
FX486120	208 274	10	80	< 10	40	20	< 0.2	8	< 2	123	1	< 1	< 2	2	106
FX486121	208 274	20	40	< 10	60	30	< 0.2	12	< 2	174	2	1	8	< 2	104
FX486122	208 274	10	130	< 10	60	20	< 0.2	8	< 2	144	1	< 1	< 2	2	54
FX486123	208 274	< 5	30	< 10	30	20	< 0.2	< 2	< 2	98	< 1	< 1	< 2	< 2	20
FX486124	208 274	30	150	< 10	60	30	< 0.2	< 2	< 2	153	< 1	< 1	< 2	< 2	60
FX486125	208 274	10	110	< 10	60	30	< 0.2	< 2	< 2	145	< 1	< 1	< 2	< 2	60
FX486126	208 274	15	90	< 10	50	20	< 0.2	8	< 2	128	1	< 1	< 2	4	64
FX486127	208 274	15	90	< 10	50	20	< 0.2	< 2	< 2	121	< 1	< 1	< 2	< 2	52
FX486128	208 274	< 5	70	< 10	60	20	< 0.2	< 2	< 2	165	2	< 1	< 2	2	56
FX486129	208 274	20	60	< 10	50	20	< 0.2	< 2	< 2	134	1	< 1	2	< 2	100
FX486130	208 274	55	40	< 10	60	20	< 0.2	< 2	< 2	134	< 1	< 1	6	< 2	54
FX486131	208 274	15	80	< 10	50	20	< 0.2	< 2	< 2	133	< 1	< 1	< 2	< 2	82
FX486132	208 274	25	130	< 10	60	40	< 0.2	< 2	< 2	11	< 1	< 1	< 2	< 2	226
FX486133	208 274	35	90	< 10	50	20	< 0.2	< 2	< 2	28	< 1	< 1	< 2	< 2	94
FX486134	208 274	10	70	< 10	60	30	< 0.2	2	< 2	161	1	< 1	< 2	2	70
FX486135	208 274	10	90	< 10	50	20	< 0.2	12	< 2	157	1	< 1	< 2	4	68
FX486136	208 274	50	20	< 10	60	20	< 0.2	8	< 2	185	< 1	< 1	< 2	< 2	62
FX486137	208 274	40	40	< 10	70	30	< 0.2	< 2	< 2	147	< 1	< 1	16	< 2	50
FX486138	208 274	60	20	< 10	60	20	< 0.2	12	< 2	155	1	2	< 2	< 2	56
FX486139	208 274	15	10	< 10	60	20	< 0.2	2	< 2	100	< 1	< 1	< 2	< 2	72
FX486140	208 274	40	20	< 10	50	20	< 0.2	< 2	< 2	115	< 1	< 1	< 2	< 2	46

18
20
12
22

Edward Hunter

CERTIFICATION:



Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
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Page Number :2-A
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P.O. Number :
Account : KPJF

Project : 60553
Comments: ATTN: EDWARD HUNTER

CERTIFICATE OF ANALYSIS A9322368

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SAMPLE	PREP CODE	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %	Ba ppm
FX486141	208 274	10.79	10.73	< 0.01	9.62	2.62	7.35	0.31	< 0.01	< 0.01	43.50	0.69	12.05	97.69	150
FX486142	208 274	14.03	5.77	< 0.01	13.13	1.25	8.64	0.20	1.64	< 0.01	47.90	1.17	3.88	97.63	180
FX486143	208 274	14.40	2.22	< 0.01	12.32	0.72	13.10	0.15	1.42	< 0.01	45.00	0.98	7.32	97.65	40
FX486144	208 274	15.34	4.37	< 0.01	13.22	0.56	8.06	0.24	3.14	< 0.01	45.70	1.23	6.02	97.90	150
FX486145	208 274	14.35	7.03	< 0.01	11.41	0.71	8.66	0.19	2.69	< 0.01	47.62	1.05	4.45	98.18	160
FX486146	208 274	12.60	9.14	< 0.01	11.13	0.81	6.51	0.24	1.34	< 0.01	43.82	0.96	11.22	97.79	60
FX486147	208 274	13.94	7.60	< 0.01	12.43	2.39	8.31	0.27	0.70	< 0.01	40.30	0.86	10.77	97.59	280

CERTIFICATION: Edward Hunter



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CERTIFICATE OF ANALYSIS A9322368

SAMPLE	PREP CODE		Rb	Sr	Nb	Zr	Y	Ag	As	Bi	Cu	Hg	Mo	Pb	Sb	Zn
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
FX486141	208	274	20	20	< 10	30	20	< 0.2	< 2	< 2	23	< 1	< 1	20	< 2	62
FX486142	208	274	10	70	< 10	60	30	< 0.2	2	< 2	178	< 1	< 1	2	< 2	76
FX486143	208	274	< 5	10	< 10	50	20	< 0.2	12	< 2	120	< 1	< 1	2	< 2	76
FX486144	208	274	< 5	70	< 10	70	30	< 0.2	16	< 2	144	< 1	< 1	< 2	2	90
FX486145	208	274	10	80	< 10	50	20	< 0.2	< 2	< 2	149	< 1	< 1	< 2	< 2	72
FX486146	208	274	15	50	< 10	50	20	< 0.2	8	< 2	127	< 1	< 1	< 2	2	78
FX486147	208	274	25	30	< 10	40	20	< 0.2	< 2	< 2	105	< 1	< 1	< 2	< 2	70

CERTIFICATION:

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*no
conf
info.*

MINFILE: 116A 009
PAGE NO: 1 of 2
UPDATED: 07/14/94

**YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE**

NAME(S): Hart River (Mark) NTS MAP SHEET: 116 A 10
MINFILE #: 116A 009 LATITUDE: 64°38'06"N
MAJOR COMMODITIES: Cu,Zn LONGITUDE: 136°49'22"W
MINOR COMMODITIES: Ag,Pb,Au,Bi DEPOSIT TYPE: Volcanogenic
TECTONIC ELEMENT: Mackenzie Platform STATUS: Deposit

CLAIMS (PREVIOUS AND CURRENT)

RAE, HOFFMAN, COPPER, MARK, LUKE, ARK, GEN, CORE, ARM

WORK HISTORY

Copper mineralization was first found in this area in the 1930's by trapper Frank Rae but the earliest staking records are for the Rae cl (57973) in Apr/55 and Hoffman cl (80000) in Jun/56 by F. Hoffman and Copper cl (80026) in Jun/56 by R. McKamey. Asbestos Corp optioned the property in 1956 and explored with mapping, hand trenching and sampling.

Restaked by the Callison Syndicate as Mark cl (Y6283) in May/66 and optioned in 1967 to Ventures ML and Anglo Western Mls L, which explored with soil sampling, EM surveys and two packsack holes (21.9 m) before forming a new company, Hart River ML in Dec/67 to finance further work. Hart River drilled 31 holes (2214.4 m) and enlarged the property in 1968, then constructed a winter road and explored the main zone with 530.4 m of underground development plus 1645.9 m of underground drilling (32 holes) and 1028.1 m of surface drilling (9 holes) in 1969. A lower adit was also driven 67 m before operations terminated.

A feasibility study was conducted in 1969 by Kaiser Engineering. Subsequent exploration consisted of detailed soil sampling, an EM survey and 823.0 m of underground drilling (2 holes) in 1970, and 277.7 m (4 holes) in 1971, and the restaking of a few lapsed claims in Jun/75. In 1976, the company changed its name to North Hart Res L. Welcome North ML tied on 111 Luke cl (YA37588) in Aug/78 and H. Wall tied on Ark cl (YA62799) in Jun/81.

North Hart restaked the southwest side as GEN cl (YA76492) in Feb/82 and Core cl (YA77560) in Jul/84. In Aug/84, North Hart Res L changed its name to Calypso Developments Ltd.

In Nov/92, Inco Ltd optioned the 11 remaining Mark claims from Calypso and added 40 Arm claims (YB29409). The Arm 41-44 cl (YB22481) were added in Aug/93. In Sept/93, Inco Ltd. diamond drilled 1556 metres in 5 holes, as well as conducting geological mapping, geochemical sampling and geophysical surveying.

GEOLOGY

A massive sulphide deposit occurs within the Middle Proterozoic Gillespie Lake Group where orange dolomite exhibits a facies change to calcareous argillite and black argillite. The sedimentary rocks are cut by numerous diabase sills and dykes. Contact metamorphism of the dolomite has formed serpentine and talc, and the argillite is hornfelsed. The Gillespie Lake Group is overlain unconformably by Late Proterozoic Pinguicula Group basalt and argillite.

The steeply dipping sulphide body has a lens shaped cross section up to 124 m long by 19 m wide and has been traced for some 150 m downdip. The footwall side is silicified and cut by a stockwork of quartz-carbonate-chalcopryrite veinlets while the hanging wall is a concordant, layered, chert-pyrite horizon. The deposit consists of thinly layered pyrite, pyrrhotite, sphalerite, galena and chalcopryrite with minor tetrahedrite, tennantite and the argyrodite-canfield sulphosalt series.

Published reserves are 523 454 tonnes (proved) grading 3.6% Zn, 1.45% Cu, 0.9% Pb, 49.7 g/t Ag and 1.4 g/t Au plus 544 320 tonnes (probable) of similar grade. The deposit exhibits proximal exhalative features and is synsedimentary. Lead dating by the GSC suggests an age between 1238 and 1288 Ma.

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