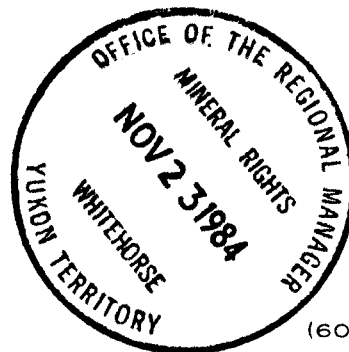


ARCHER, CATHRO

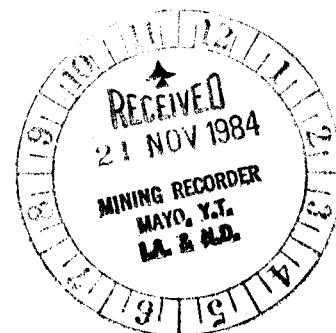
& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

1016-510 WEST HASTINGS STREET
VANCOUVER, B. C. V6B 1L8



(604) 688-2568



REPORT ON
HAND TRENCHING PROGRAM

carried out

AUGUST 5 & 6, 1984

on the

TUDL 1-32 CLAIMS (YA76768-YA76799)

MAYO MINING DISTRICT, YUKON TERRITORY

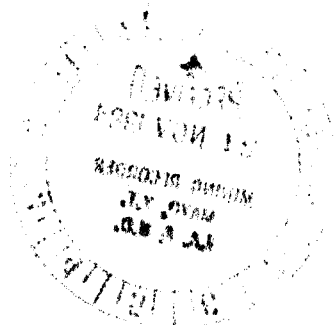
CLAIM SHEET 106D/1

LATITUDE 64°01'N; Longitude 133°28'W

R.C. Carne, M.Sc.

October, 1984

091577



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 3,798.91.

D. A. Emond

for Director of the Geological Survey and
Geological Services for Commissioner
of Yukon Territory.

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Summary and Recommendations	1
Introduction	4
History	4
Property, Location and Access	5
Summary of Previous Work	6
Results of 1984 Trenching Program	9

APPENDIX

Appendix A - Statement of Qualifications

LIST OF FIGURES

<u>Figure</u>	<u>Description</u>	<u>Location</u>
1	Location Map (1:250,000)	Follows Page 4
2	Location Plan (1" = ½ mile)	Follows Page 8
3	Detailed Geology of 1984 Trenches	In Pocket

LIST OF TABLES

Table I	Description of Trench Samples with Assays	Follows Page 9
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SUMMARY AND RECOMMENDATIONS

ZX-Sentinel Joint Venture (ZXJV) was formed in early 1982 by Chevron Canada Limited, Enterprise Exploration Limited and SMD Mining Co. Ltd. to explore for sedimentary exhalative (sedex) deposits within Selwyn Basin. At the end of the 1983 field season, the Marg Target (Tudl 1-32 claims) was staked and explored briefly. A modest hand trenching program was undertaken in August, 1984 to partially evaluate the results of the 1982 ZXJV and earlier work.

The Marg Target, situated 35 km ENE of Elsa, Y.T. in the Keno Hill silver camp, consists of a soil geochemical anomaly with strong values in lead, zinc, copper, silver and gold. The anomalous pattern is discontinuous within a zone that is roughly 1,200 m long and up to 300 m wide and is generally conformable with the trend of the underlying metasedimentary and metavolcanic assemblage.

Only a few small fragments of pyritic mineralization have been found. These contain sphalerite, chalcopyrite and galena, as well as the supergene copper sulphide, covellite. Assays of three specimens averaged 12.8% Cu, 8.0% Pb, 2.2% Zn, 4.6 oz/ton Ag and 0.067 oz/ton Au. Results of a petrologic study of sulphide and barite float specimens suggest a stratiform source for both. A petrologic study of thin sections indicates that host lithologies are a succession of weakly metamorphosed volcanic-sedimentary and volcanic rocks.

Results of the 1984 field program support these conclusions. Three banded, limonitic horizons conformable with bedding in the host rock were exposed by hand trenching over a restricted area. These are probably the weathered equivalents of thin volcanogenic massive sulphide units. Best assay received from the 1984 sampling program was 0.44% Cu, 4.52% Pb, 0.14% Zn, 2.84 oz/ton Ag and 0.035 oz/ton Au

over 1.5 m. Oxidation of the unglaciated area of mineralization extends to an unknown depth. Geochemical and petrologic studies suggest that near surface mineralization has enhanced Cu,Pb,Ag and, perhaps, Au grades through supergene enrichment while Zn values are probably depleted through leaching.

Hand trenching is relatively effective for establishing the extent and geological controls on mineralization, although grade of unweathered massive sulphide mineralization will probably only be determined by backhoe trenching or diamond drilling.

The Marg Target consists of precious metal-bearing, volcanogenic massive sulphide mineralization of unknown grade and extent that is found within an extensive geochemical anomaly. This is a type of mineralization that, although previously unknown in the area, represents a very attractive exploration target.

The next stage of work should consist of reestablishing of the old grid, resampling of the anomaly to determine its location more accurately, and trial geophysical surveys (Max-Min II, magnetometer and VLF-EM). These should be followed up by hand trenching of the best anomalies.

The proposed budget for the 1985 field season is on the following page.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A handwritten signature in black ink, appearing to read 'R.C. Carne', followed by a horizontal line.

R.C. Carne.

/mc

ZXJV 1985 PROPOSED BUDGET

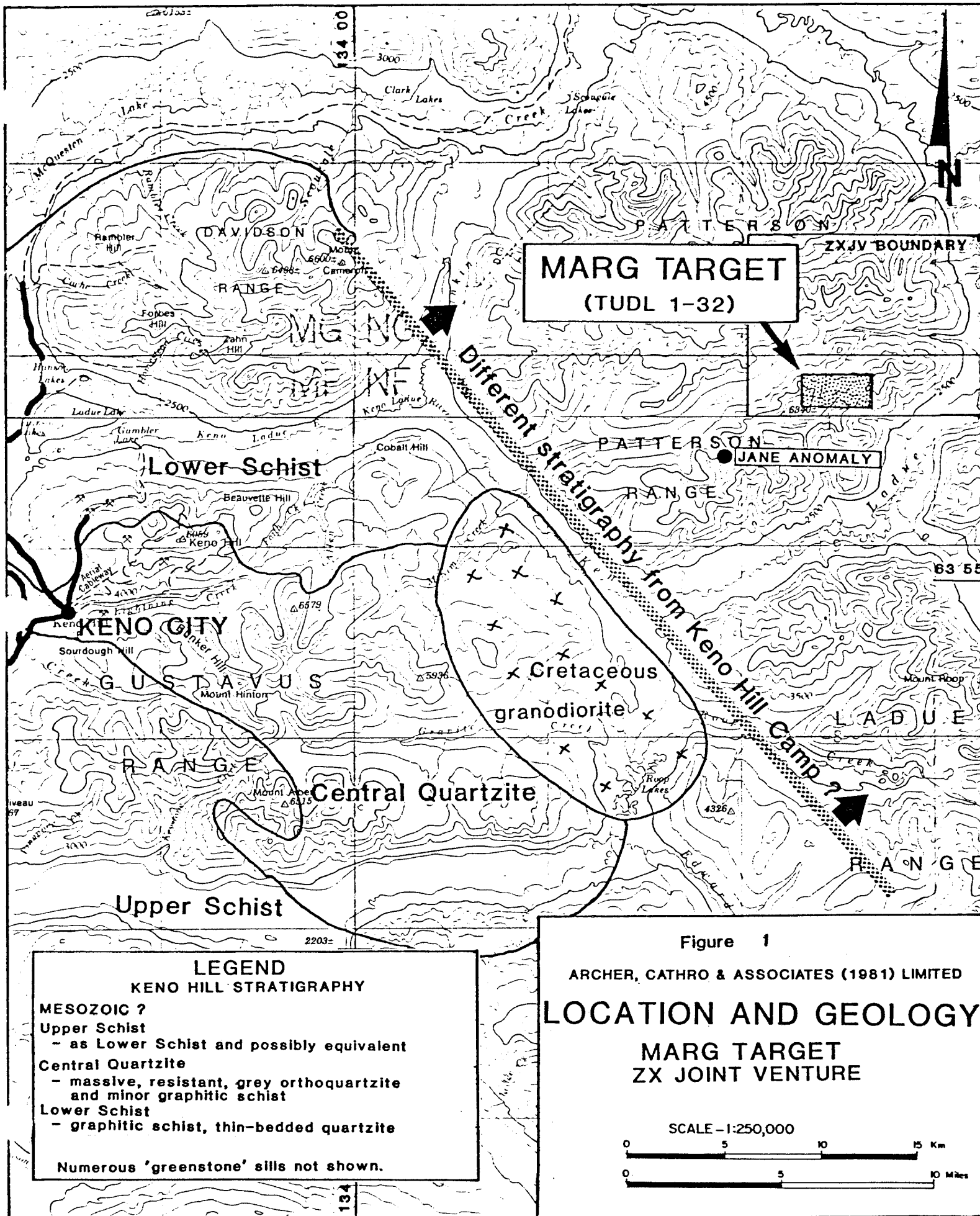
Grid layout and line cutting - 10 km @ \$330/km		\$ 3,000.00
Geochemical Samples - 2000 samples @ \$15/ea	\$30,000.00	
Labour (30 mandays)	6,000.00	
Camp support	<u>1,800.00</u>	
		37,800.00
Assays - 200 @ \$25		5,000.00
Hand Trenching -		
Labour (30 mandays)	\$ 6,000.00	
Camp support	<u>1,800.00</u>	
		7,800.00
Geophysical Surveys		
Labour and Consulting (10 days)		5,000.00
Helicopter - 20 hrs @ \$600/hr		12,000.00
Expediting, Travel, Freight		<u>4,400.00</u>
		\$75,000.00
Report Preparation (10% of Field Costs)		<u>7,500.00</u>
		<u>\$82,500.00</u>

INTRODUCTION

The Marg Target is located near the Keno Hill silver camp, as shown on Figure 1 on the following page. It is a strong lead-zinc-copper anomaly in soil that was explored with geochemical sampling and hand trenching during 1965 to 1967. It was re-evaluated by ZXJV in 1982 to determine if it might represent the weathered expression of a sedex deposit. The brief 1982 program consisted of cleaning out old hand trenches, collecting additional samples for petrographic examination and sampling, mapping and prospecting. In 1984, two days were spent cleaning out old hand trenches and excavating two new ones.

HISTORY

The Marg Target was first staked in early 1965 by Canadian Superior Explorations Ltd. as the Jack claims to cover a stream sediment anomaly of 300 ppm lead, 2400 ppm zinc and 240 ppm copper discovered by the GSC's Operation Keno in 1964 (GSC maps 45-1965, 47-1965 and 50-1965). During 1965, Canadian Superior explored with prospecting, soil sampling and hand trenching and added the Marg and Heather claims. In 1966, United Keno Hill Mines Ltd. (UKHM) entered a joint venture with Canadian Superior and performed additional prospecting, grid geochemistry and hand trenching. Archer, Cathro & Associates (1981) Limited conducted a brief program on the property on behalf of Canadian Superior in 1967, at which time the previous grid sampling was rechecked and additional hand trenches were dug. All work between 1965 and 1967 was performed with the objective of locating Keno Hill-type galena veins with high silver content. The target was subsequently staked as the Flash claims in 1977 by Mountaineer Mines Ltd. and Welcome North Mines Ltd. who did no work.



MARG TARGET
(TUDL 1-32)

Cretaceous
granodiorite

Central Quartzite

Lower Schist

Upper Schist

LEGEND
KENO HILL STRATIGRAPHY

MESOZOIC ?

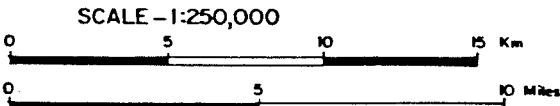
Upper Schist
- as Lower Schist and possibly equivalent

Central Quartzite
- massive, resistant, grey orthoquartzite and minor graphitic schist

Lower Schist
- graphitic schist, thin-bedded quartzite

Numerous 'greenstone' sills not shown.

Figure 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LOCATION AND GEOLOGY
MARG TARGET
ZX JOINT VENTURE



The early work consisted primarily of grid sampling centred on a transported gossan about 1.5 km upstream from the GSC silt sample site. Lead and zinc soil response was highly anomalous but copper and silver content were not analyzed. Initial efforts to determine if the lead anomalies were derived from veins failed to uncover any galena, although a single 5 mm fragment of fine-grained sulphide panned from overburden was found to contain 40 percent sphalerite and 20 percent chalcopyrite in polished section. Because lead soil geochemistry had proven so effective for locating galena veins in the Keno Hill camp, the conclusion drawn from the 1965-67 work was that no Keno Hill-type veins were present and that no further work was justified.

PROPERTY, LOCATION AND ACCESS

The property consists of 32 contiguous claims recorded in the name of Archer, Cathro & Associates (1981) Limited at the Mayo Mining Recorder's office as follows:

<u>Claim Name</u>	<u>No. of Claims</u>	<u>Mining District</u>	<u>Sheet</u>	<u>Grant Numbers</u>	<u>Expiry Date</u>
Tud1 1-32	32	Mayo	106D/1	YA76768-YA76799	Sept. 14/85

The Marg Target is located at latitude 64°01'N and longitude 138⁴°28'W between the Keno Ladue River on the south and the Beaver River on the north, both of which are tributaries of Stewart River. It is situated 32 km ENE of the settlement of Keno City, which is 466 road km from Whitehorse, Y.T. Barry Lake, 5 km west of the property, is accessible by float plane from Mayo, 79 km to the southwest. Access in 1984 was by helicopter from a basecamp in Keno City.

SUMMARY OF PREVIOUS WORK

The Marg Target lies along the south margin of the rugged Patterson Range, which locally reaches elevations in excess of 2,000 m. The grid area is situated at about 1400 m, just below treeline, on a more recessive slope with moderate relief. It lies above the level of Pleistocene valley glaciation and has apparently not been glaciated.

The Keno Hill camp has been mapped in varying detail by a number of GSC geologists, including Keele (1904), Cairnes (1915), Cockfield (1921-2), Stockwell (1926), Bostock (1938-42), Roddick and Green (1957), Boyle (1956-7), McTaggart (1960), and others. Blusson has recently mapped the rocks to the east in NTS areas 105N and 106C and Tempelman-Kluit has reinterpreted the Keno Hill stratigraphy in the Tombstone Mountains, 200 km to the west (Bulletin 180).

McTaggart correlated the bedrock geology of the Patterson Range with the Central Quartzite and Lower Schist formations of the Keno Hill area. Tempelman-Kluit in turn assigned these a Jurassic to Lower Cretaceous age on the basis of correlation with similar, although unmetamorphosed, sequences in the Tombstone Mountains. Blusson, on the other hand, correlates the Patterson Range stratigraphy with the Devonian to Mississippian Earn Group.

Preliminary work by ZXJV on the Marg Target favours the former interpretation. Petrologic and field data show that the area is underlain by a volcanic-sedimentary terrane that has undergone one phase of deformation and has been regionally metamorphosed to lower greenschist facies. The nearby Earn Group exposures have no volcanic component and are essentially unmetamorphosed. The Keno Hill series is lithologically similar to the Patterson Range rocks although it has undergone several periods of penetrative deformation.

The Marg Target is underlain by at least three mappable rock units forming an apparently conformable sequence that trends about N60°W and dips 40° to the southeast. All three units contain quartzite, chloritic phyllite, graphitic-sericite phyllite and calcareous phyllite. The three rock units are informally called, in stratigraphic sequence, the "Graphitic Unit", "Chloritic Unit" and "Quartzite Unit", reflecting predominant lithology. Although all are metamorphosed to lower greenschist facies and their provenance is uncertain, petrographic evidence indicates that the chloritic phyllite was derived from intermediate volcanics and that there is a pyroclastic component in the graphitic phyllite. These are probably the metamorphosed and deformed equivalents of a tuffaceous, carbonaceous shale within a volcanic assemblage.

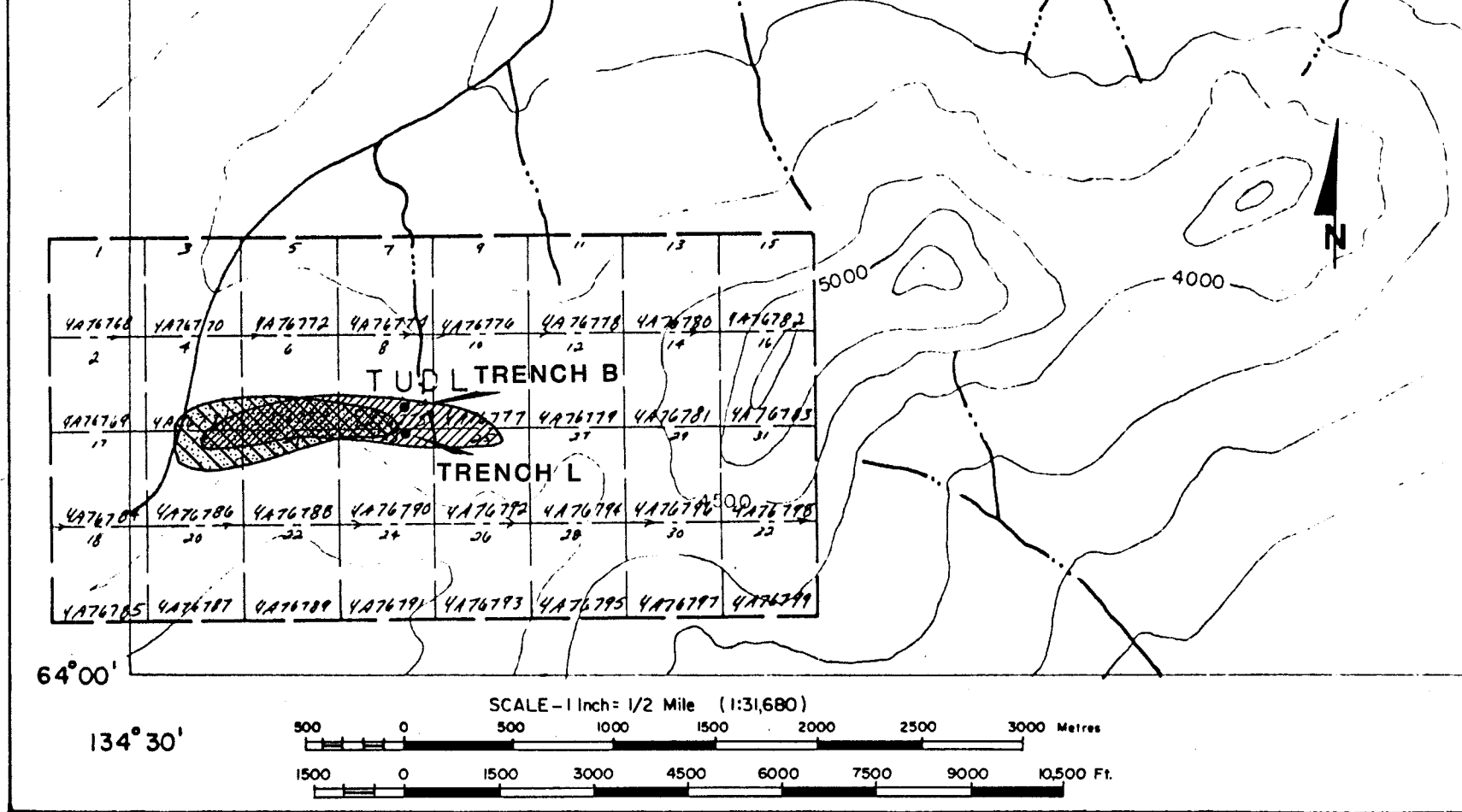
A few specimens of base metal sulphides were located on the Marg Target during the Archer, Cathro trenching program in 1967 following unsuccessful trenching by Canadian Superior and UKHM in 1965 and 1966. The 1967 hand trenches were located at the uphill edge of the anomalies, assuming them to be hydromorphic or gravitational dispersions from an upslope source. Samples from these trenches were systematically panned and the heavy mineral separates were inspected and assayed. The only sulphides recognized in the concentrates were a euhedral pseudocubic variety of pyrite common in the country rock that ranges up to 1 cm in size. Geochemical analyses from panning concentrates returned values of up to 5500 ppm Pb and 60 ppm Ag.

During the winter of 1967-68, a fragment from one of the concentrates, an unusually fine-grained 5 mm specimen, was studied at the University of British Columbia by C.A. Main and found to contain about 40 percent sphalerite, 20 percent

chalcopyrite and a trace of covellite, chalcocite, pyrargyrite and tetrahedrite. This specimen was from the bottom of Trench L (Figure 2). The mineral assemblage and textures in this specimen are typical of volcanogenic massive sulphide deposits rather than veins common to the Keno Hill area.

In 1982, Trench L and other trenches were cleaned out and panned at one metre intervals but no additional fragments of fine-grained sulphides were found other than common euhedral cubes. While inspecting other old trenches, three small fragments of massive sulphide were found at Trench B (North), about 80 m north of Trench L (Figure 2). These three specimens range up to 10 cm in length and are composed of fine-grained sulphide minerals within a gangue of carbonate and foliated graphite. Assays of these specimens averaged 12.80% Cu, 8.00% Pb, 2.24% Zn, 160.1 ppm Ag, and 2270 ppb Au. Analyses for additional elements returned an average of about 0.2% As, 0.02% Sb, 0.02% Ba, 70 ppm Sn, 5 ppm Te and less than 5 ppm Mn.

Polished thin sections from these specimens reveal a composition of crumbly, weathered euhedral pyrite (about 20%) and chalcopyrite (15%) with less amounts of covellite (6%), sphalerite (\pm .5%) and galena (tr). The latter two minerals are mainly found as inclusions in the pyrite and the covellite is found as intergrowths within the gangue and secondary minerals such as limonite or plumbojarosite.



LEGEND



Area of anomalous (>200 ppm) Zn in soils



Area of anomalous (>100 ppm) Pb in soils

Figure 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LOCATION PLAN

MARG TARGET

TUDL CLAIMS

ZX JOINT VENTURE

RESULTS OF 1984 PROGRAM

During the period August 5 to August 6, 1984, two days were spent by R.C. Carne and assistant B. Wengzynowki cleaning out, resampling and remapping Trench B, as well as blasting and excavating two new trenches (Trenches O and P) in the immediate area. Results of this work are summarized on Figure 3 in the pocket.

A 16 m stratigraphic thickness of bedrock is exposed across the axis of a slightly overturned, east-trending antiform. Details of the bedrock stratigraphy and corresponding assays of samples are given in Table I (assuming an upright succession).

Three banded limonite-clay horizons are contained within a sequence of tuffaceous(?) metasedimentary rocks. The lower horizon is 5.5 cm thick where seen and contains only low values of base and precious metals. The middle limonitic horizon is exposed in four locations between a 5.5 m thick sericitic phyllite unit and a 4.0 m thick graphitic phyllite unit. The best interval sampled returned 1.35% Cu, 9.09% Pb, 0.54% Zn, 9.42 oz/ton Ag and 0.235 oz/ton Au over a 12 cm true thickness. Over the small area tested by trenching, this horizon appears to pinch out to the northeast.

The upper limonitic horizon was exposed by the 1966 United Keno Hill Mines Ltd. hand trenching and was described as "an eight inch vein of manganese and gouge in schist which returned 4.64 oz/ton Ag". Resampling in 1984 yielded values of 0.77% Cu, 9.98% Pb, 0.21% Zn, 5.77 oz/ton Ag and 0.068 oz/ton Au over 20 cm (8"). The immediate hanging wall of this horizon consists of interbedded black graphitic phyllite and tan sericitic phyllite with thin limonite horizons in scattered

Table I: Description of Trench Samples with Assays

UNIT	DESCRIPTION	THICKNESS	SAMPLE NO.	SAMPLE WIDTH*	CU (ppm)	PB (ppm)	ZN (ppm)	AG (ppm)	AU (oz/T)	COMMENTS
	ferricrete cap	3 cm	4209	grab	0.37%	2.42%	620	1.08 z/t	0.006	
D	interbedded black graphitic phyllite and tan sericitic phyllite with thin limonite horizons in scattered intervals	top not seen (>5.0 m)	4212	1.5 m (1.3 m)	0.39%	3.68%	1300	2.40 o/t	0.040	
4213			1.4 m (1.1 m)	0.23%	1.14%	1150	14.5	0.012		
4214			1.0 m (0.8 m)	0.33%	0.39%	1180	5.4	0.003		
4215			1.0 m (0.8 m)	0.42%	1600	1200	3.5	0.003		
4216			0.9 m (0.7 m)	0.24%	910	705	1.6	Tr		
	banded limonitic horizon	12 cm	4211	12 cm	0.77%	9.98%	0.21%	5.77 o/t	0.068	
C	black graphitic phyllite with numerous white quartz sweats	4.0 m	4201	grab	390	785	258	2.2	Tr	immediate hanging wall of limonitic zone
4208			grab	223	650	520	1.3	0.003		
4210			grab	198	1280	115	1.3	Tr	immediate footwall of limonitic zone	
	banded limonitic horizon	12 cm 2.5 cm 2 cm	4202	12 cm	1.35%	9.09%	0.54%	9.42 o/t	0.236	
4207			2.5 cm	1.40%	13.70%	1500	7.92 o/t	0.074		
4217			2 cm	175	785	800	1.9	Tr		
B	tan to rusty brown weathering thin bedded sericitic phyllite	5.5 m	4218	2.5 m (1.0 m)	230	205	980	0.4	Tr	immediate footwall of limonitic zone
4206			grab	580	0.35%	247	8.8	Tr		
4205			grab	330	210	400	0.4	Tr		
4204			grab	1080	730	550	1.9	Tr		
4203			grab	1500	0.32%	740	14.8	0.003	immediate footwall of limonitic zone	
	banded limonitic horizon	5.5 cm	4219	5.5 cm	1430	740	0.39%	2.0	0.003	
A	massive to thin bedded, slightly calcareous, pyritic quartzite	base not seen (>1.5 m)	4220	grab	1730	323	0.53%	1.3	Tr	immediate footwall of limonitic zone
4221			grab	153	73	1000	0.4	Tr		

* true stratigraphic width is given in brackets if different from the sample width
 ** grab samples are composite chip samples over a 1 m² area

intervals. The basal 1.3 m of this unit yielded an assay of 0.39% Cu, 3.68% Pb, 0.13% Zn, 2.4 oz/ton Ag and 0.04 oz/ton Au. The weighted average of these two intersections is 0.44% Cu, 4.52% Pb, 0.14% Zn, 2.84 oz/ton Ag and 0.035 oz/ton Au over 1.5 m.

A nearby sample of secondary iron oxide cemented overburden (ferricrete) assayed 0.37% Cu, 2.42% Pb, 620 ppm Zn, 1.08 oz/ton Ag and 0.006 oz/ton Au. This demonstrates that Cu, Pb, Ag and, to a lesser degree, Au values may be enhanced by supergene processes while Zn appears to be depleted. The depth of weathering is not known and fresh sulphide mineralization may only be intersected by diamond drilling.

Results of the 1984 trenching demonstrate that thin banded limonite horizons occur conformably within and between sub-units of a weakly metamorphosed sedimentary-volcanic succession of unknown age on the Marg Target. Although these are too thin to be economic importance in their own right, they may be distal expressions of higher grade mineralization elsewhere on the property. The source of sulphide-bearing, mineralized float specimens discovered in 1967 and 1982 in the area of the 1984 trenching were not located in bedrock and may have been derived from the overburden walls of the trenches.

A petrologic study of sulphide and barite float specimens was carried out in 1982. Results of this work suggest a stratiform source for both. Thin section studies of associated bedrock samples demonstrate a weakly metamorphosed volcanic-sedimentary provenance for the mineralization. Although Pb-Zn ratios of the limonitic horizons and sulphide specimens are uncharacteristically high for volcanogenic deposits, this effect may be due to supergene enrichment of lead and leaching of zinc values in the near-surface environment. Results of the 1984 trenching program support these conclusions.

APPENDIX A

STATEMENT OF QUALIFICATIONS

I, Robert C. Carne, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Burnaby, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1974 with a B.Sc. and in 1979 with an M.Sc. majoring in Geological Sciences.
2. I am a member of the Geological Association of Canada.
3. From 1974 to the present, I have been actively engaged as a geologist in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981 became a partner of Archer, Cathro & Associates (1981) Limited.
4. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



Robert C. Carne, B.Sc., M.Sc.

ARCHER, CATHRO

& ASSOCIATES LIMITED

CONSULTING GEOLOGICAL ENGINEERS

091577

VANCOUVER, B.C. (604) 688-2568

Box 4127, WHITEHORSE, Y.T. Y1A 3S9 (403) 667-4415




1016 - 510 WEST HASTINGS STREET
VANCOUVER, B.C. V6B 1L8

AFFIDAVIT

I, Joan Mariacher, of Whitehorse, Y.T. make oath and say:

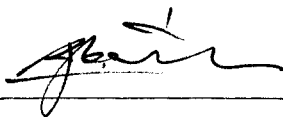
That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Tudl 1-32 mineral claims on Claim Sheet 106D/1 & 2 is accurate.


Joan Mariacher

Sworn before me at Whitehorse, Y.T.

this 10 day of

September, 1984



Notary, Yukon Territory

Statement of Expenditures
Tudl 1-32 Claims
September 14, 1984

Labour

R. Carne (geologist) - 2 days field and 1 day pre-field and report preparation - total 3 days at \$350/day	\$1,050.00
B. Wengzynowski (assistant) - 2 days at \$140/day	280.00

Expenses

Camp & field costs, room & board - 4 mandays at \$60/day	\$ 240.00	
Trans North helicopter - 2.6 hours	1,341.60	
1 drum JP4	190.20	
Explosives - 1 bag Amax, 5 fuse assemblies, 10 sticks 40%	199.85	
CP Air freight	30.60	
Chemex Labs Ltd. - assays	294.16	
Drafting - 4 hours at \$30/hr	120.00	
Expediting - 1.5 hours at \$35/hr	<u>52.50</u>	<u>2,468.91</u>
		<u><u>\$3,798.91</u></u>

In Account With
ZX JOINS VENTURE

Aug 31, 1984

Re: MARG ASSESSMENT

Labour

R. Cairns - Aug 5, 6 - land handling, sampling and mapping - 2 day @ \$350/day	-	\$ 700.00
B. WPNIGZYNIOWSKI - Aug 5, 6 - assist with handling & sampling 2 day @ \$140/day	-	\$ 280.00
J.M. Th... J. Manville - the office & expedition	-	\$ 35.00

Expenses

weight 4 lbs 50 gm	room and board, 4 non days @ \$60/day	-	\$ 240.
	long distance calls	-	4.12
	C P Air fuel	-	30.60
	Clery	-	294.16



TRANS NORTH AIR

TRANS NORTH TURKEY AIR LTD

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TELEPHONE: 4400, 4401, 4402, 4403, 4404, 4405

ACCOUNT NUMBER	1030
65873	
INVOICE DATE	19/08/84
A/C TYPE	206B
AIRCRAFT REGISTRATION C	FXFF
FLIGHT DATE	06/08/84
PURCHASE ORDER NO.	

CHARTERER: MCHER, CAMERON & ASSOC.
OPERATOR: MCHER

LOADING ADDRESS

TOTAL FUEL USED	2.0	CHRG. GAL.	0.8	FROM	A.C. MAYO
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FROM	TO	MILES	HOURS	ZONE	REMARKS - NO. OF PASS. FREIGHT LBS.
MAYO					
M7	CAMERON 05-08-84		1.2		2000 ARMS ET + 4000 P/B/P/W
M7	CAMERON 06-08-84		1.4		
			2.6		

X JV - MARG

SLICE	G.L.	AMOUNT
13103	15020	1300 00
13104	15110	41 60

2.6 @ 500⁰⁰ 1300 00

TERMS: NET 30 DAYS
2% INTEREST PER MONTH (24% PER ANNUM) WILL BE CHARGED ON ALL OUTSTANDING AMOUNTS OVER 10 DAYS

CHARTERER'S SIGNATURE: [Signature]

PILOT'S SIGNATURE: [Signature]
INITIALS: [Initials]
CO-PILOT'S NAME:

ENGINEER'S NAME: GILBERT [Signature]

FLIGHT ATTENDANT:

WAITING TIME	@	/HR.	
FUEL: 80.0	@ .52	1/60	41 60
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

TOTAL \$ 1341 60

FLIGHT REPORT INVOICE

ass
eum
ices

DATE May 29 1984

Anchor Catering
"SADIE"

ACCOUNT NUMBER
4718

INVOICE
333047



TRUCK TRAILER
TRIP NO.

Box 4070
Arlahorse,
ukon Y1A 3T1

SHIP TO STN FROM
Pick up
STN CODE 19
ORDER NO.

BACK ORDER	PRODUCTS DELIVERED	SIZE OF PACKAGE	CODE	QUANTITY	PRICE	AMOUNT
	Reg Gas 3DR	Litre	10 1 1	600	498	298.80
	4T TAX		962 1 1	600	042	25.20
	DIESEL 4DR	Litre	45 1 1	800	469	375.20
	4T TAX		963 5 1	800	052	416.00
	JP-4 3DR	Litre	28 1 1	600	508	304.80
	4T TAX		961 3 1	600	007	4.20

THIS IS YOUR INVOICE

NO OTHER INVOICE OR STATEMENT WILL BE ISSUED.
PAYMENT IS DUE WITHIN 15 DAYS OF RECEIPT OF GOODS.

DELIVERED BY	PAYMENTS RECEIVED CASH _____ CHEQUES _____ EXCHANGE _____ TOTAL _____	TAX	DRUM CHARGES 910049 10 65% 650.00 DRUM CREDITS () TERMS - NET CASH (NO DISCOUNT)	TOTAL	1699.80
PRODUCTS RECEIVED BY					
UNPAID					
CHECKED					

SHIP DATE
09/08/84
DAY / MO. / YR.

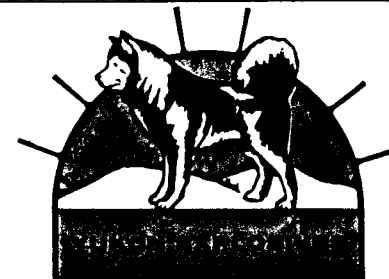
BRANCH
WHITEHORSE

SHIP VIA:

COLLECT

SLBM ACCOUNT NO
11 Y03364

I N V O I C E



ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9

PLEASE REMIT TO:

BOX 5247, STN. A
CALGARY, ALBERTA
T2H 1X6
PHONE (403) 255-7776
TELEX 038-21661

PO NUMBER	PARTY/JOB	DEST	FEDERAL TAX NO	PROVINCIAL TAX NO	INV. DATE	INVOICE NO.	COPIES	
		4			17/08/84 DAY / MO. / YR.	12670	3	
ITEM NO.	DESCRIPTION	ORDERED	SHIP'D	PRICE	PER	EXTENSION	UNIT FST	EXT. FST
135-0100	AMEX II	50	50	167.80	C	83.90	4.23	2.12
120-2050	FORCITE 40% 25 X 200MM	25	25	441.50	C	110.38	21.58	5.40
221-5020	3M SAFETY FUSE ASSEMBLY	200	200	177.40	C	354.80	9.55	19.10
	MAG CHARGE 1 @ 40.00					40.00		
TOTALS						589.08		26.62

Smith

PAY THIS AMOUNT
\$615.70

SEE REVERSE FOR DETAILS OF TERMS AND CONDITIONS.

ORIGINAL

018 YXY 51042633

018-51042633

Shippers Name and Address ARCHER CATHRO BOX 4127 WHITEHORSE YT		Shippers account Number T00000000107301	Not negotiable Air Waybill* (Air Consignment note) Issued by CANADIAN PACIFIC AIR LINES LIMITED VANCOUVER B.C. CANADA
Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity			

Consignee's Name and Address CHEMEX LABS LTD 212 BROOKSBANK AVE NORTH VANCOUVER BC V7J2C1		Consignee's account Number 00000000666801	It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.
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Issuing Carrier's Agent Name and City YXYFFCP		Accounting information ST ARCHER CATHRO AND ASSOC#1016-510 W HASTINGS ST#VANCOUVER#BC#V6B1L8	
Agent's IATA Code 71 9 9020	Account No.		

Airport of Departure (Addr. of first Carrier) and requested Routing WHITEHORSE YT CA				Declared Value for Carriage NVD				Declared Value for Customs NCV				
to	By first Carrier	Routing and Destination	to	by	to	by	Currency	CHGS Code	WT/VAL PPD	Other COLL	Declared Value for Carriage	Declared Value for Customs
YVR	CP						CAD	PXX			NVD	NCV
Airport of Destination VANCOUVER BC CA		Flight/Date For Carrier Use only		Flight/Date		Amount of Insurance XXXXX		INSURANCE - If Carrier offers insurance, and such insurance is requested in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked 'amount of insurance'.				

Handling Information
NTF-CTC FOR P/U

No. of Pieces RCP	Gross Weight	kg	lb	Rate Class	Commodity Item No.	Chargeable Weight	Rate Charge	Total	Nature and Quantity of Goods (incl. Dimensions or Volume)
2	34.0	OK	N			34.0	1.35	45.90	ROCK SAMPLES
2	34.0	OK						45.90	TIME ACCEPTED 1425L

Prepaid	Weight Charge	Collect	Other Charges
	45.90		
Valuation Charge			
Tax			
Total other Charges Due Agent			
Total other Charges Due Carrier			
Total prepaid		Total collect	
45.90			
Currency Conversion Rates	cc charges in Dest. Currency	15 AUG 1984 /BL	
		Executed on (Date)	at (Place)
			Signature of Issuing Carrier or its Agent

For Carriers Use only at Destination	Charges at Destination	Total collect Charges	TA7-C 01/83 Δ
			CAD
			018 51042633

Signature of Shipper or his Agent
[Handwritten Signature]
CUB 1/3
ZXYV 2/3
30/84



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1
Telephone: (604) 984-0221
Telex: 043-52597

*** INVOICE ***

To : ARCHER CATHRO & ASSOC. (1981) LTD.

Invoice # : 18415015

1016 - 510 W. HASTINGS ST.
VANCOUVER, B.C.
V6B 1L8

Date : 23-AUG-84
P.O. # : NONE
Project *my - 2X*

Invoice for analytical work reported on certificate(s) A8415015-001

Quantity	code	description	unit	price	amount
21	002 - Cu		ppm		
	004 - Pb		ppm		
	005 - Zn		ppm		
	006 - Ag		ppm	4.70	98.70

Sample preparation and other charges :

21	205 - Rock geochem - RING	2.50	52.50
----	---------------------------	------	-------

TOTAL	\$	151.20
Discount (20 %)	\$	30.24

Please pay this amount ----> \$ 120.96
=====

TERMS -- NET 30 DAYS
1.5 % per month (18 % per annum) charged on overdue accounts





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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. (1981) LTD.

Invoice # : 18415366

1016 - 510 W. HASTINGS ST.
VANCOUVER, B.C.
V6B 1L8

Date : 4-SEP-84
P.O. # : NONE
Project *Zx mang*

Invoice for analytical work reported on certificate(s) A8415366-001

Quantity	Analysed for code description	unit price	amount
15	396 - Au FA oz/T	7.50	112.50
2	301 - Cu %		
	312 - Pb %		
	383 - Ag FA oz/T		
	396 - Au FA oz/T	21.50	43.00
3	312 - Pb %		
	383 - Ag FA oz/T		
	396 - Au FA oz/T	16.00	48.00
1	312 - Pb %		
	396 - Au FA oz/T	13.00	13.00

Sample preparation and other charges :

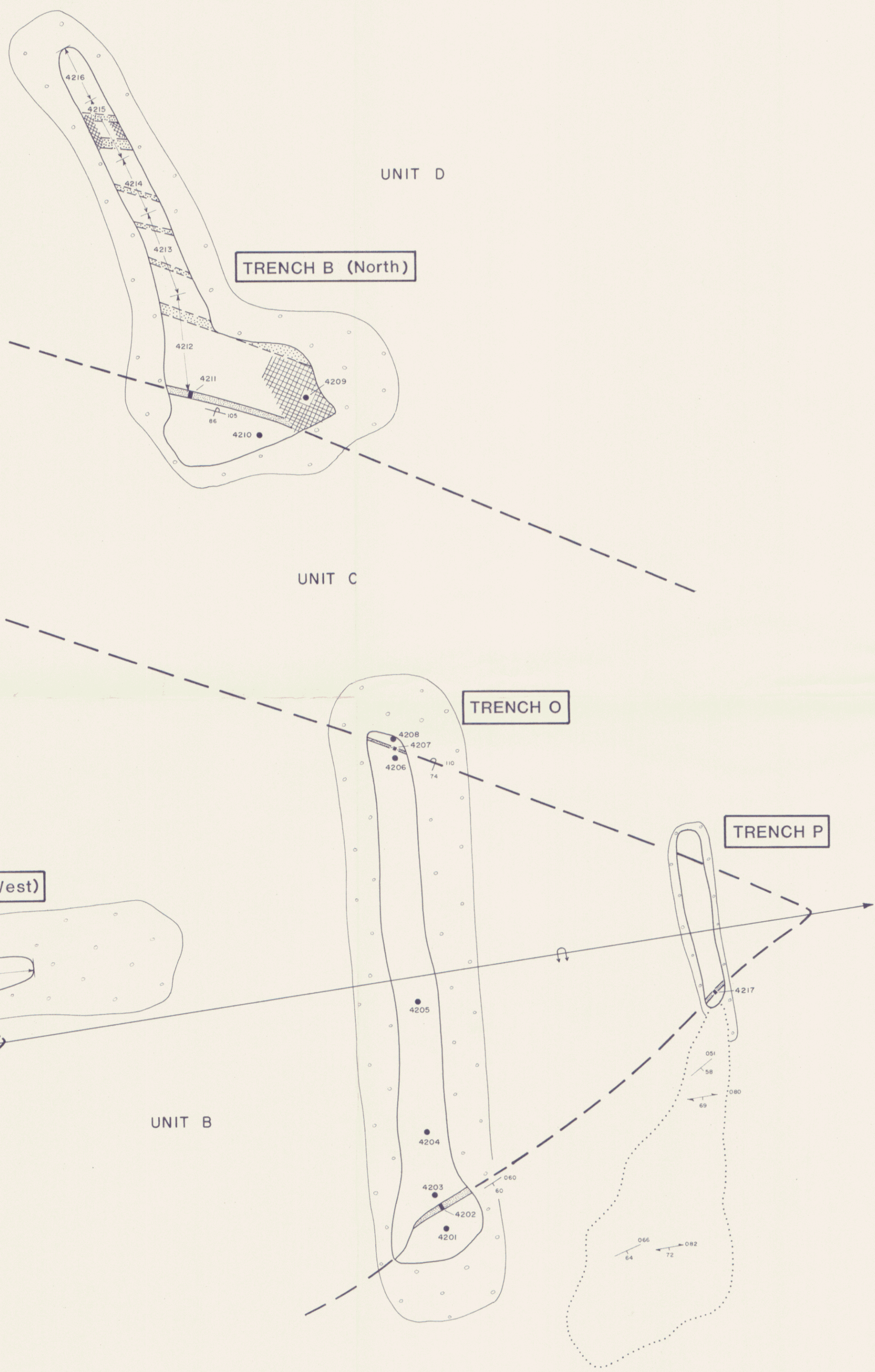
21	214 - Bag pulp	0.00	0.00
----	----------------	------	------

TOTAL	\$	216.50
Discount (20 %)	\$	43.30

Please pay this amount ----> \$ 173.20
=====

TERMS -- NET 30 DAYS
1.5 % per month (18 % per annum) charged on overdue accounts





LEGEND

- area of outcrop
- area excavated to bedrock
- overburden in trench walls
- iron cemented overburden (ferricrete)
- banded limonite horizon
- interval of thin limonite seams in graphitic phyllite
- overturned antiform
- attitude of bedding
- channel sample (see Table I for list of assays)
- grab sample (see Table I for list of assays)

LITHOLOGIES

- UNIT D** interbedded black graphitic phyllite and tan sericitic phyllite with thin limonite horizons in scattered intervals
- UNIT C** black graphitic phyllite with numerous white quartz sweets
- UNIT B** tan to rusty weathering, thin bedded sericitic phyllite
- UNIT A** massive to thin bedded, slightly calcareous, pyritic, sericitic quartzite

Note: Dimensions of TRENCH O are approximately 1.5m wide x 10m deep x 9.0m long for a total volume of 13.5m³ removed

Dimensions of TRENCH P are approximately 0.5m wide x 0.5m deep x 2.5m long for a total volume of 0.625m³ removed

TRENCH B (West) and TRENCH B (North) were dug in 1967 and cleaned out in 1984

091577

Figure 3
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**DETAILED GEOLOGY
 OF 1984 TRENCHES**
 MARG TARGET
 TUDL CLAIMS
 ZX JOINT VENTURE

