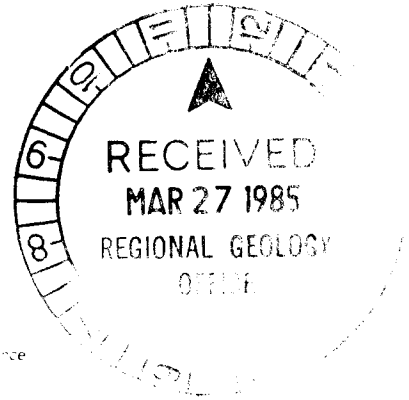




101621



19 March 1985

Director General, Yukon Region

None - None reference

Attention: Regional Manager  
Mineral Rights

None - None reference

RESTRICTED

Enclosed are Diamond Drill Logs and maps submitted by Canamax Resources Inc. on Kon mineral claims located on claim sheet 105-F-9.

Drilling was as indicated below:

KR84-38	34.44 m	KR84-49	16.15 m
KR83-39	16.15 m	KR84-50	31.24 m
KR84-40	28.35 m	KR84-51	101.35 m
KR84-41	49.68 m	KR84-52	31.39 m
KR84-42	31.39 m	KR84-53	43.59 m
KR84-43	25.30 m	KR84-54	34.44 m
KR84-44	34.14 m	KR84-55	37.49 m
KR84-45	23.77 m	KR84-56	28.35 m
KR84-46	20.42 m	KR84-57	119.79 m
KR84-47	21.94 m	KR84-58	107.59 m
KR84-48	24.08 m	KR84-59	117.74 m (Kon 10, 12, 14)

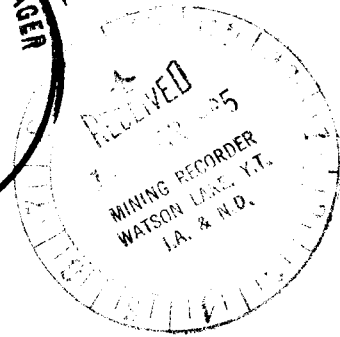
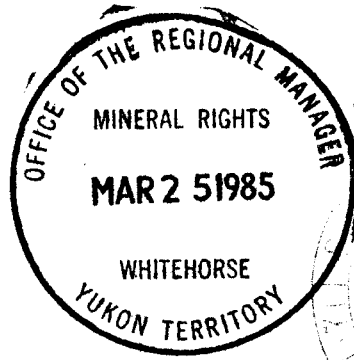
Assessment credit requested is \$31,350.00.

Drill core is being stored at main campsite on the property.

Yours truly,

Y. T. Burkhard  
a/Mining Recorder  
Watson Lake Mining District  
P. O. Box 269  
Watson Lake, Yukon  
Y0A 1C0

PJ  
encl.  
cc: Regional Manager  
Geology



1984 Assessment Report

TITLE Ketza River Property Geochemical and Diamond Drilling Assessment Report

CLAIMS Kon 1-98 Claims

AUTHOR S.E. Parry, Z.J. Wyrwal

DATE March, 1985

WORK PERIOD June 1 - September 15, 1985

COMMODITY Au

LOCATION - Area 50 km S.E. of Ross River, Y.T.

- Mining Division Watson Lake, M.D.

- Co-ordinates Latitude 61°32'20"  
Longitude 132°16'10"

- N.T.S. 105 F/09

OWNER Ketza River Mines Ltd.

OPERATOR Canamax Resources Inc.

CANAMAX VANCOUVER OFFICE

091621



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 \$ 31,350.00

*for* **DAEmond**  
Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

*Geochemical  
survey costs are  
approved and  
diamond drilling  
costs are recommended  
as allowable.  
DAEmond*

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FIGURES

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Figure 2 - Claim Map (1:31,680) 1"=1/2 mile.....After page 2

Figure 3 - Geochemical Plan (1:5,000)

    3a-North Sheet Gold ppb.....In Pocket

    3b-South Sheet Gold ppb.....In Pocket

    3c-North Sheet Arsenic ppm.....In Pocket

    3d-South Sheet Arsenic ppm.....In Pocket

Figure 4 - 1984 Drill Locations (1:5,000).....In Pocket

## SUMMARY

This report presents results of a geochemical and diamond drilling program conducted on the KON 1-98 claims from June 1 to September 15, 1984.

The property is located in the Pelly Mountains, some 50 km southeast of Ross River, 105 F/09 and is accessible by 4 wheel drive access road from the Robert Campbell highway.

A 3,500 sample soil geochemical survey outlined numerous anomalies with maximum values up to 50,000 ppb Au and 40,000 ppb As. In addition to anomalies directly overlying known showings, four previously unknown coincident Au-As anomalies were delineated.

A total of 2,424 metres of diamond drilling were completed on the property. Of the 22 holes which are presented in this report for assessment credit, 14 intersected strata bound massive pyrrhotite-arsenopyrite mineralization. Summary logs with gold assays for these holes are presented as an appendix to this report.

## INTRODUCTION

### Introduction

This report summarizes work conducted on the Ketz River property during the 1984 field season. Work described includes the following:

- 1) 3500 sample soil geochemical survey
- 2) Diamond drilling by Connors Drilling (59 holes - 2424 metres)

### Location and Access

The Ketz River property is located in the St Cyr range of the Pelly Mountains, some 50 air kilometres south of Ross River, Y.T. The property is accessible from July 1 through October 15 via the Ketz River access road. During spring breakup, high water levels in the Ketz River, and several ice buildups ("glaciers") along feeder creeks make the road impassable. Washouts are an annual problem where the road runs adjacent to the Ketz River.

### Claims

The property consists of the 98 Kon quartz claims and 25 mining leases (Figure 2). The claims and expiry dates after application of the work presented in this report are presented in Table I.

### Property History

Silver mineralization in the Ketz River area was first discovered in 1946 by Prospectors Airways, about 5 kilometres east of the property. Gold

CANAMAX RESOURCES INC.

# KETZA RIVER PROPERTY

WATSON LAKE MINING DISTRICT - YUKON

## LOCATION MAP

To accompany Assessment Report 1984 by S. Perry,

Z. Wytrwal

JANUARY, 1985

N.T.S. No. 108 F09

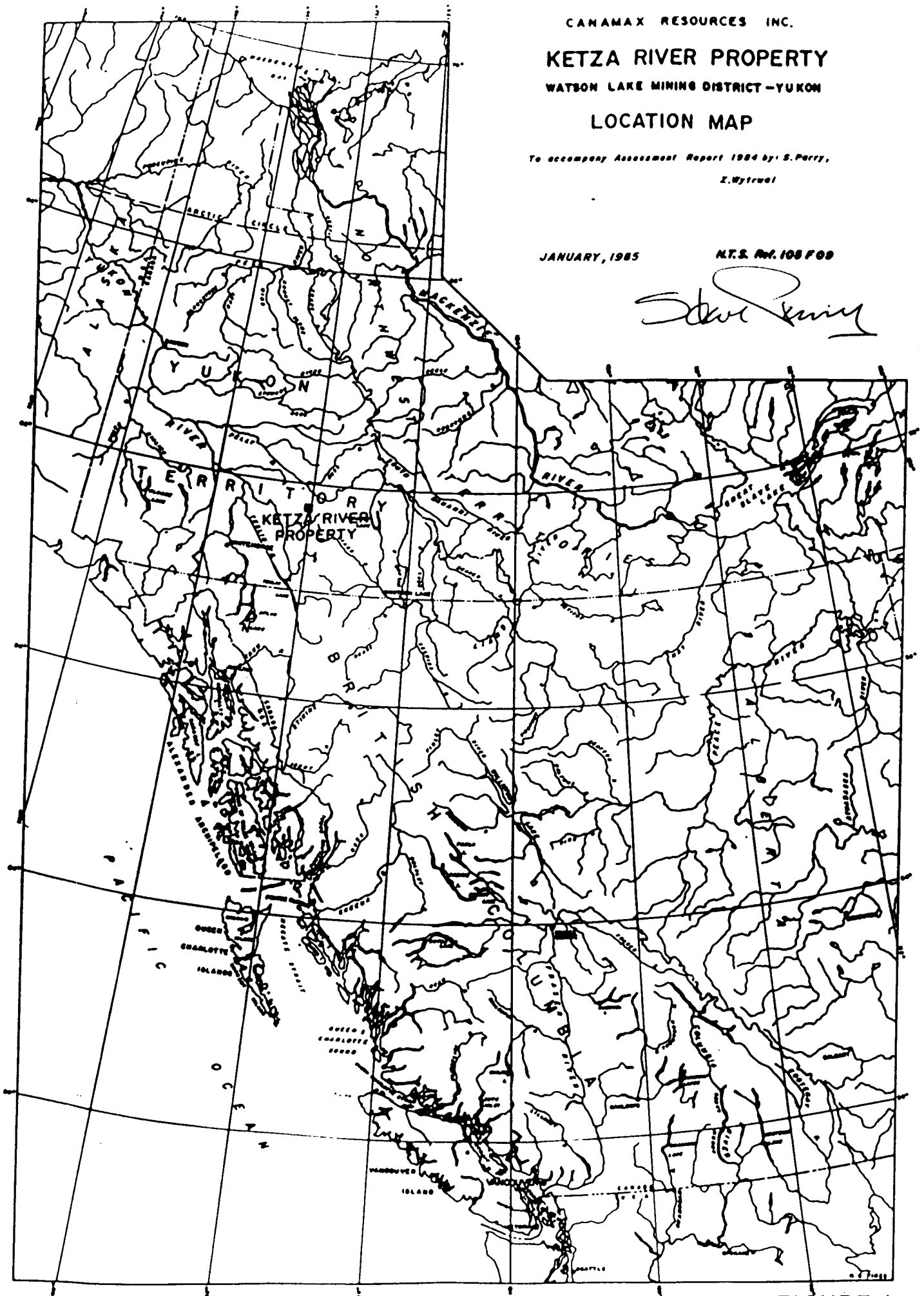
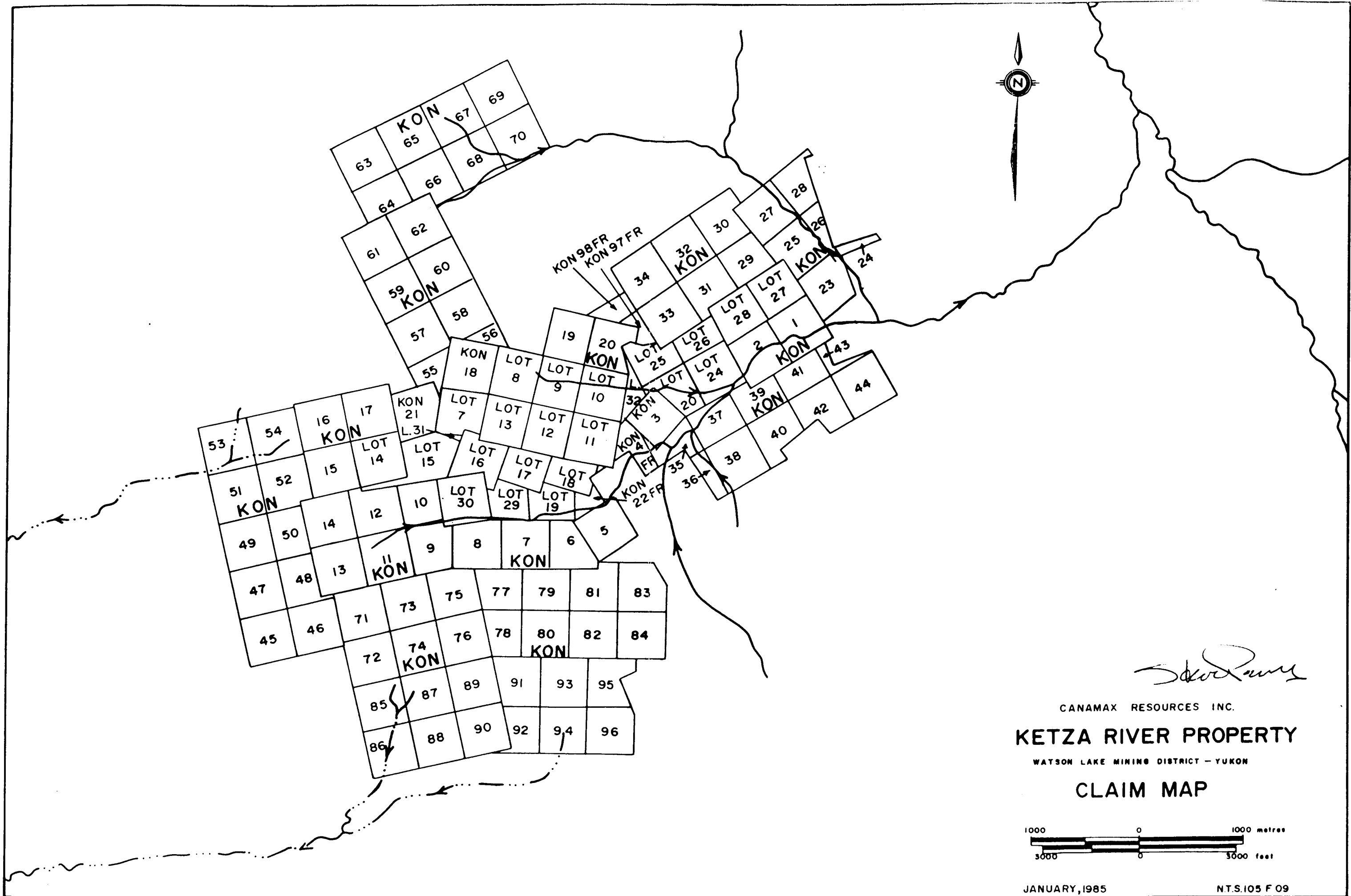
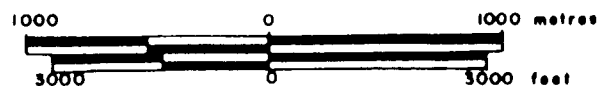


FIGURE 1



*Steve Ramsay*

CANAMAX RESOURCES INC.  
**KETZA RIVER PROPERTY**  
 WATSON LAKE MINING DISTRICT - YUKON  
**CLAIM MAP**



JANUARY, 1985

NT.S.105 F 09

**FIGURE 2**

Table I

CLAIM STATUS - KETZA RIVER PROPERTY

Claim Name	Grant No.	Lease No.	No.	Expiry Date
KON 1-2	YA56473-YA56474		2	March 21/88
KON 3-4	YA56475-YA56476		2	March 21/89
KON 5	YA56477		1	March 21/90
KON 6-18	YA56478-YA56490		13	March 21/88
KON 19-20	YA56491-YA56492		2	March 21/88
KON 21-22FR	YA56493-YA56494		2	March 21/88
KON 23-44	YA70934-YA70955		22	March 21/88
KON 45-70	YA70956-YA70980		26	March 21/90
KON 71-96	YA71526-YA71551		26	Aug. 21/90
KON 97-98FR	YA72106-YA72107		2	Oct. 04/85
ANN 2	71527	1519	1	Dec. 14/88
FRED No.1FR	Y16372	1522	1	" "
FRED No.2FR	Y16373	1523	1	" "
FRED No.3FR	Y16395	1524	1	" "
FRED No.4FR	Y16396	1525	1	" "
FURY 25	69833	1507	1	" "
FURY 26	69834	1508	1	" "
FURY 27	69835	1509	1	" "
FURY 28	69836	1510	1	" "
FURY 29	69837	1511	1	" "
FURY 30	69838	1512	1	" "
FURY 32	69839	1513	1	" "
FURY No.1FR	71077	1514	1	" "
JAN 3	71424	1515	1	" "
JAN 4	71425	1516	1	" "
JAN 5	71426	1517	1	" "
JAN 6	71427	1518	1	" "
PEEL 1	69368	1498	1	" "
PEEL 2	69369	1499	1	" "
PEEL 3	69370	1500	1	" "

Table I - Page Two

Claim Name	Grant No.	Lease No.	No.	Expiry Date
PEEL 4	69371	1501	1	Dec. 14/88
PEEL 5	69372	1502	1	" "
PEEL 6	69373	1503	1	" "
PEG 17	69488	1505	1	" "
PEG 18	69489	1506	1	" "
PENGUIN 4	69367	1497	1	" "
PENGUIN 7	72781	1520	1	" "
PENGUIN 10	72784	1521	1	" "
PIONEER 4	69377	1504	1	" "

mineralization was subsequently discovered and staked by Conwest in 1955 as the Peel claims. During the period 1955-1961 Conwest completed surface evaluation of the showings and drilled a total of 75 AX and packsack holes, principally on the Peel and Ridge zones (formerly Peel 3 and Peel 3C respectively). A reserve of 75,000 tons grading 0.35 oz Au/ton was estimated for the Peel zone which remained open in two directions.

During the next 23 years, the central claims were taken to lease and transferred to a subsidiary of Conwest's, Ketz River Mines Ltd. Only minor assessment work was done during this time.

In 1983, the property was optioned to Pacific Trans Ocean Resources Ltd., who farmed out 50% of their interest to Canamax. The KON claims are held in the name of Ketz River Mines Ltd. In 1984 an additional 77 KON claims were staked to consolidate the ground position.

GEOLOGY

The Ketzka River property is underlain by Lower Paleozoic carbonate and clastic rocks of Templeman-Kluits 1Cc and 1Cqs on the Quiet Lake 1:250,000 geology map. These lower Paleozoic rocks are exposed in only a few places in the Pelly Mountains where, as at Ketzka, they have been upfaulted or upthrust as discrete blocks surrounded by younger strata. Structural and stratigraphic relations with older and younger rocks are unclear.

No intrusive rocks are exposed in the vicinity of the property. The nearest intrusive centres are the Mississippian syenite plugs along McConnell Creek 8 km to the west and a small, felsic Cretaceous stock 8 km to the south.

Structurally the area is strongly dissected by both normal faults and thrust faults. Normal faults shown on Templeman-Kluit's 1:250,000 scale map for this area strike 080°, 320° and 340°. Mapped thrust faults trend 280°.

Mineralization on the property consists of veins and mantos of arsenopyrite-pyrrhotite which carry free gold. Locally, the sulfides have been weathered to a depth of 200 feet, forming limonite zones with slightly enhanced gold values. Gold-bearing quartz-arsenopyrite veins and vein structures also occur on the property.

GEOCHEMISTRYGeneral Remarks

3500 soil samples of the B soil horizon were collected in Kraft paper bags at 25 m intervals on lines spaced 100 and 200 meters apart. The samples were submitted to Rossbacher Labs, Burnaby, B.C. for gold and arsenic analysis. Emphasis was placed on obtaining as large a sample as possible to reduce the effects of erratic gold distribution. Each sample's parent material (till, talus, alluvium) and physical characteristics, as well as the presence or absence of gossanous material was recorded. Sample pulps are stored at Rossbacher Labs.

Results for Au and As are plotted on figure 3.

No rigorous statistical evaluation was made of the results; however visual inspection of the data suggests the following thresholds.

Table II Geochemical Thresholds

	<u>Anomalous</u>	<u>Highly Anomalous</u>
Au	50 ppb	500 ppb
As	1000 ppm	5000 ppm

At 50 ppb the Au threshold may be low from a statistical point of view, but the use of this value produces relatively smooth contours which appear to correlate well with geological observations.

## Results

Figure 3 indicates that Au and As anomalies are roughly coincident, that As is more widespread and that areas of known mineralization always provide an anomalous response in both elements. The highest values, especially for gold, appear to reflect concentration during physical transport.

Besides anomalies over known mineralization (Tarn zone, Baseline 19W; Bluff zone, Baseline 4W; Peel zone, line 1E, 1+50S; Ridge zone line 1E, 1+00N; Peg-Fury zone Baseline 16+00), four significant anomalies were delineated in areas where mineralization had not previously been recognized, as follows:

1. 18W to line 4W, 5S. This anomaly lies along the north side of Cache Creek, East of the Tarn and Penguin zones (Figure 3). This 1.5 km long anomaly has maximum values of greater than 40,000 ppm As and 3000 ppb Au. It may relate to glacial dispersion from the mineralized zones up-valley; however, the anomaly also coincides with an unexplained magnetic anomaly 150 metres northwest of the Creek zone (Figure 4). Numerous auriferous sulphide boulders littered along the trend of the anomaly no doubt contribute to the geochemical response, but it is not known if they have been glacially distributed from Tarn-Penguin zones or if they come from an entirely different, unexposed source.
2. Line 7W, 3N to 2W, 11N: This anomaly overlies the major peak on the ridge between Peel Creek and Cache Creek, and is best expressed by the arsenic map (figure 3c). Maximum values of 1020 ppb Au and greater than 40,000 ppm As were recorded. The anomaly is underlain by the two poorly exposed showings referred to as the MC zone - arsenopyrite

boulders along a major limestone-mudstone contact, and intermittent chalcopyrite-quartz veining immediately northeast of the boulders. The anomaly extends for almost 1 km to the north beyond these showings into an area underlain by hornfelsed phyllite and quartzite in Peel valley. Because it crosses a geological boundary it is unlikely the anomaly is caused by an arsenopyrite manto, but it may indicate the presence of more extensive vein stockwork mineralization.

3. Line 3W, 3N to line 20E, 9N. This 1.7 km by 1 km anomaly, has maximum values of 50,000 ppb Au and greater than 40,000 ppb As, and consists of two components - an east-west arm that parallels and lies downslope from Fred's Vein (Figure 3) and an oval core on the north side of Peel Creek. The "arm" is attributed to downslope dispersion from Fred's Vein and implies at least 1 km of potentially mineralized strike length to the vein. The oval core is probably caused by the vein mineralization on the valley slope north of Peel Creek. The magnitude and intensity of the anomaly (one line of 10 samples returned greater than 2000 ppb Au) and its coincidence with an area of magnetic highs suggests a much larger system of veining than presently identified.
4. Line 4E 1+75S to 4+75S. This two line anomaly measures 200 metres by 300 metres, and is located 250 metres southeast of the Peel zone (fig. 3). Maximum values of 6500 ppb Au and 12,000 ppb As were recorded. Immediately upslope from the anomaly, a small arsenopyrite-pyrrhotite showing was located, just east of the major gulley on the east end of the Peel zone. This anomaly coupled with the showing, may identify the faulted extension of the Peel zone east of the gulley.

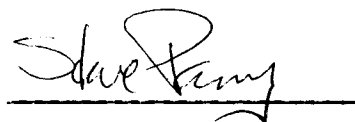
DIAMOND DRILLINGGeneral Remarks

2,424 meters of NQ drilling was completed in 59 holes on the property between July 11, 1984 to September 15, 1984. The 22 holes claimed for assessment credit are located on the Tarn and Penguin zones on claims KON 10, 12, and 14 respectively. Connors Drilling, contractor for the job, used a Boyles 37A drill mounted on a modified tree skidder, such that the entire drill and vehicle operated as a single unit powered by the skidder engine.

Drill core is stored at the main campsite near baseline 8+00W on the cut grid.

All holes were surveyed using a Ushikata Tracon and Compass. Locations were tied in to the cut and chained baseline. The Peel, Ridge and Bluff zones are tied in to station 0+00, the Tarn zone to 18+00W and the Flint and Penguin zones to 14+00W. Due to baseline chainage inaccuracy, the relative positions of the showings are accurate to about  $\pm 10$  m. Internal accuracy of drill holes to one another in each zone is  $\pm 2$  metres horizontal,  $\pm 1$  metre vertical.

Fire assays were received from Bondar Clegg Ltd. for the drill core samples. Check analyses, run by Rossbacher Labs, Chemex Labs and by Bondar Clegg showed that the results are acceptable within the limits of analytical accuracy. Assay results for the holes claimed as assessment work are shown in Table III. Core logs are presented in Appendix I.



S.E. Parry

Table III

DIAMOND DRILL HOLE ASSAYS - KETZA RIVER

Hole #	Meterage	Width (m)	Assay g/T	S.G.
KR-84-38	-----NO ASSAYS-----			
KR-84-39	0.91- 1.80	0.89	4.46	3.47
	11.78-11.95	0.17	0.62	--
KR-84-40	1.10- 2.42	1.30	0.78	3.70
	2.42- 4.10	1.68	<0.07	2.54
	4.10- 5.10	1.00	<0.07	2.65
	5.10- 6.40	1.30	0.34	4.01
	6.40- 6.81	0.41	4.90	3.97
	6.81- 7.11	0.30	0.34	3.41
	7.11- 8.11	1.00	6.79	4.29
	8.11- 8.75	0.64	9.94	4.28
	8.75- 9.50	0.75	3.43	4.02
	9.50-10.75	1.25	0.07	--
	14.20-15.28	1.08	0.93	--
15.48-16.05	0.57	0.10	--	
KR-84-41	1.52- 1.82	0.30	<0.07	--
	8.50-10.50	2.00	<0.07	--
	14.50-16.50	2.00	<0.07	--
	33.00-34.30	1.30	<0.07	--
	43.61-44.10	0.49	1.78	--
	45.70-46.00	0.30	<0.07	--
KR-84-42	7.01- 7.30	0.29	0.45	--
KR-84-43	7.30- 9.00	1.70	<0.07	--
KR-84-44	7.01- 7.35	0.34	0.41	--
	16.23-19.20	2.97	6.62	2.53
	19.20-19.50	0.30	0.14	2.40
	19.50-20.73	1.23	0.41	2.31
	20.73-22.25	1.52	0.17	2.43
	22.25-23.47	1.22	4.59	?2.40
	23.47-25.30	1.83	0.79	3.50
	25.30-26.30	1.00	2.40	3.45
	26.30-27.43	1.13	0.89	3.54
	27.43-29.48	2.05	1.13	3.62
KR-84-45	0.30- 1.90	1.60	<0.07	--
	1.90- 2.50	0.60	0.14	--
	2.50- 2.70	0.20	<0.07	--
	2.70- 3.45	0.75	<0.07	--
	3.45- 4.17	0.72	0.48	--
	4.17- 5.25	1.08	0.21	--
5.25- 5.83	0.58	<0.07	--	

Diamond Drill Hole Assays  
 Ketzka River Property  
 Page Two

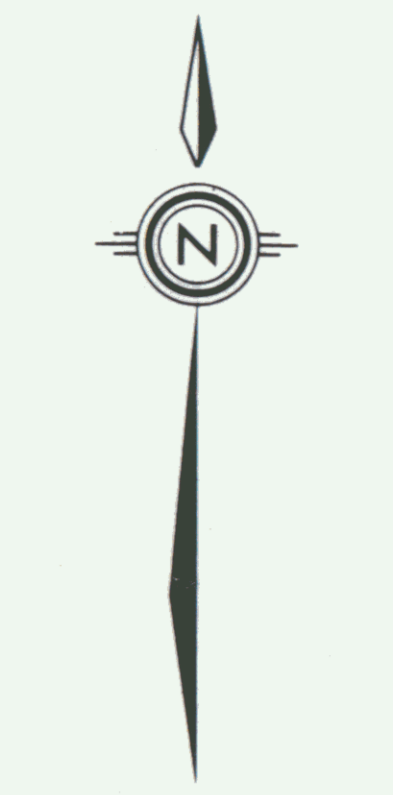
Hole #	Meterage	Width (m)	Assay g/T	S.G.
KR-84-46	0.61- 1.17	0.56	0.21	2.96
	1.17- 2.13	0.86	1.78	4.04
	2.13- 2.80	0.67	1.71	4.21
	2.80- 4.17	1.37	7.82	3.14
KR-84-47	1.40- 2.44	1.04	0.72	--
	5.40- 6.40	1.00	0.14	2.68
	6.40- 7.54	1.14	4.53	4.03
	7.54- 8.33	0.79	3.26	2.64
	8.33- 8.65	0.32	0.93	3.82
	18.11-18.21	0.10	0.45	--
KR-84-48	-----NO ASSAYS-----			
KR-84-49	3.05- 3.79	0.74	1.37	3.77
	3.79- 4.79	1.00	0.34	3.25
	4.79- 5.38	0.59	5.01	4.07
	5.38- 5.68	0.30	0.14	2.63
KR-84-50	-----NO ASSAYS-----			
KR-84-51	39.90-40.70	0.80	<0.07	--
	59.20-62.00	2.80	<0.07	--
KR-84-52	5.30- 5.60	0.30	<0.07	--
	26.37-28.15	1.78	<0.07	--
KR-84-53	36.27-37.20	0.93	<0.07	--
	37.20-38.20	1.00	<0.07	--
	38.20-39.62	1.42	0.07	--
	39.62-41.75	1.53	<0.07	--
KR-84-54	3.45- 4.85	1.40	0.07	--
	8.50-10.00	1.50	0.24	--
	16.30-17.68	1.38	0.07	2.87
	17.68-18.98	1.30	1.03	3.66
	26.00-27.50	1.50	2.19	3.39
KR-84-55	3.20- 4.20	1.00	1.34	3.27
	6.40- 7.40	1.00	0.62	3.11
	7.40- 8.50	1.10	2.19	3.36
KR-84-56	4.02- 4.75	0.73	0.51	2.82
	4.75- 5.79	1.04	0.72	3.05
	5.79- 7.32	1.53	1.06	3.05

Diamond Drill Hole Assays  
 Ketz River Property  
 Page Three

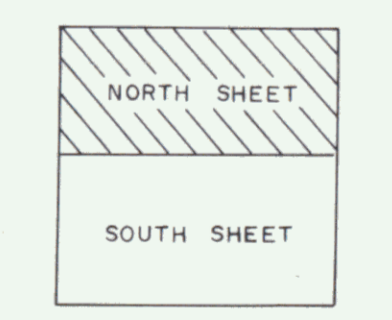
Hole #	Meterage	Width (m)	Assay g/T	S.G.
KR-84-56 (con't)	7.32- 7.90	0.58	0.34	2.81
	16.45-17.37	0.92	<0.07	--
	20.20-20.70	0.50	<0.07	--
KR-84-57	78.35-79.89	1.54	0.07	--
	79.89-81.18	1.29	0.07	--
	81.18-82.18	1.00	0.07	--
	82.18-83.18	1.00	0.07	--
	83.18-84.18	1.00	0.07	--
	84.18-85.18	1.00	0.07	--
	85.18-86.18	1.00	0.31	--
	86.18-87.18	1.00	0.07	--
	87.18-88.18	1.00	<0.07	--
	88.18-89.18	1.00	0.07	--
	89.18-90.18	1.00	0.07	--
	90.18-81.18	1.00	0.10	--
	91.18-92.18	1.00	0.07	--
	92.18-93.18	1.00	2.88	4.55
	93.18-94.18	1.00	5.04	3.86
94.18-95.18	1.00	0.21	--	
95.18-96.46	1.28	0.17	--	
KR-84-58	58.65-59.25	0.60	0.07	--
	59.25-60.25	1.00	<0.07	--
	60.25-61.87	1.62	<0.07	--
	61.87-63.40	1.53	<0.07	--
	63.40-65.05	1.65	<0.07	--
	65.05-66.75	1.70	0.17	--
	66.75-69.28	2.53	<0.07	--
	69.29-69.88	0.60	<0.07	--
	69.88-71.98	2.10	<0.07	--
	71.98-73.76	1.78	0.07	--
	73.76-75.55	1.79	0.07	--
	75.55-76.81	1.26	<0.07	--
	76.81-78.33	1.52	<0.07	--
	78.33-80.16	1.83	<0.07	--
	80.16-82.91	2.75	<0.07	--
	82.91-83.99	1.08	0.75	--
	83.99-85.64	1.65	<0.07	--
	85.64-87.00	1.36	0.10	--
	87.00-88.05	1.05	0.10	--
	88.05-88.65	0.60	8.57	4.46
88.65-89.65	1.00	0.10	4.14	
89.65-91.08	1.43	0.07	4.64	
91.08-92.95	1.87	1.06	2.98	

Diamond Drill Hole Assays  
 Ketzá River Property  
 Page Four

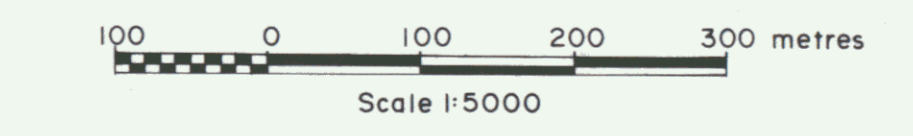
Hole #	Meterage	Width (m)	Assay g/T	S.G.
KR-84-58 (con't)	92.95- 94.49	1.54	0.51	3.62
	94.49- 95.59	1.10	0.24	--
	95.59- 96.60	1.01	0.21	--
	96.60- 97.75	1.15	0.14	--
KR-84-59	71.98- 72.98	1.00	0.14	--
	72.98- 73.85	0.87	0.07	--
	73.85- 75.85	2.00	<0.07	--
	75.85- 77.85	2.00	<0.07	--
	77.85- 79.85	2.00	<0.07	--
	79.85- 81.30	1.45	0.07	--
	81.30- 82.60	1.30	0.10	--
	82.60- 83.45	0.85	<0.07	--
	83.45- 84.80	1.35	0.14	--
	84.40- 86.15	1.35	<0.07	--
	86.15- 87.15	1.00	0.96	3.52
	87.15- 88.60	1.45	0.24	--
	88.60- 89.80	1.20	0.14	--
	89.80- 91.14	1.34	0.07	--
	91.14- 92.25	1.11	0.21	--
	92.25- 94.20	1.95	0.89	3.32
	94.20- 94.90	0.70	0.21	--
	94.90- 96.90	2.00	0.27	--
	96.90- 98.90	2.00	<0.07	--
	98.90-101.20	2.30	1.23	2.96
	101.20-102.30	1.10	0.82	4.06
	102.30-103.10	0.80	0.14	--
	103.10-104.10	1.00	<0.07	--
104.10-105.10	1.00	0.24	--	
105.10-106.10	1.00	0.07	--	
106.10-107.10	1.00	<0.07	--	
107.10-107.80	0.70	0.14	--	
107.80-109.20	1.40	0.07	--	
109.20-110.30	1.10	<0.07	--	



- LEGEND**
- Soil sample site
  - ⊕ Silt sample site
  - ⊙ Chip sample site
  - 50 ppb Au
  - 500 ppb Au
  - Property boundary
  - Section line

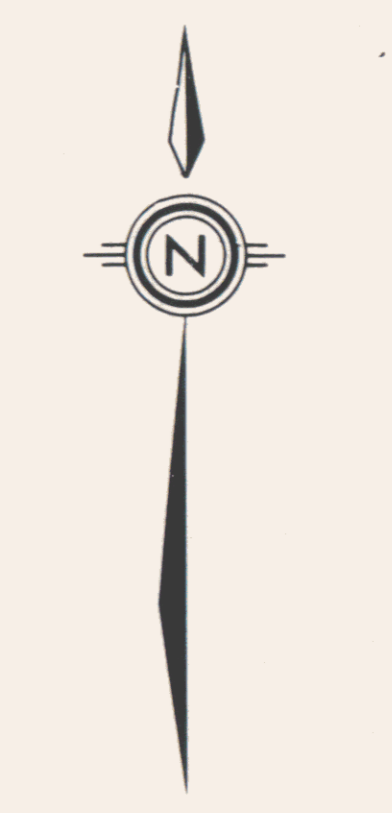


CANAMAX RESOURCES INC.  
**KETZA RIVER PROPERTY**  
 WATSON LAKE MINING DISTRICT - YUKON  
**GEOCHEMICAL PLAN**  
**GOLD ppb**

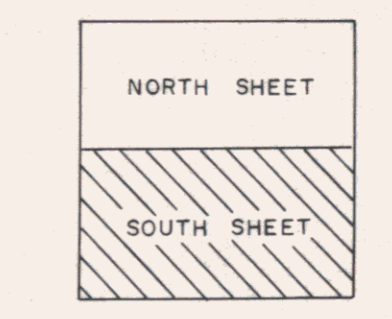


To accompany 1984 Assessment Report by: S. Parry, Z. Wytwał  
**091621**  
 January, 1985 *Z. Wytwał*  
 N.T.S. Ref. 105F 09

**FIGURE 3a**



- LEGEND**
- Soil sample site
  - Silt sample site
  - Chip sample
  - 50 ppb Au
  - 500 ppb Au
  - Property boundary
  - - - Section line



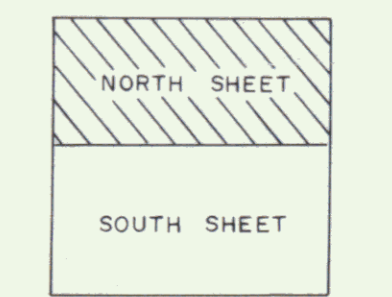
CANAMAX RESOURCES INC.  
**KETZA RIVER PROPERTY**  
 WATSON LAKE MINING DISTRICT - YUKON  
**GEOCHEMICAL PLAN** 091621  
**GOLD ppb**  
 Scale 1:5000  
 To accompany 1984 Assessment Report by S. Parry, Z. Wytrwal  
 January, 1985 N.T.S. Ref. 105F09

**FIGURE 3b**



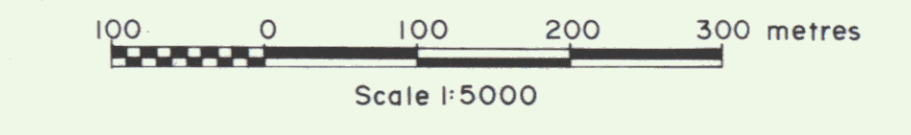
**LEGEND**

- Soil sample site
- Silt sample site
- ⊕ Chip sample
- 1000 ppm As
- 5000 ppm As
- Property boundary
- Section line



CANAMAX RESOURCES INC.  
**KETZA RIVER PROPERTY**  
 WATSON LAKE MINING DISTRICT - YUKON

**GEOCHEMICAL PLAN**  
**ARSENIC ppm** 091621

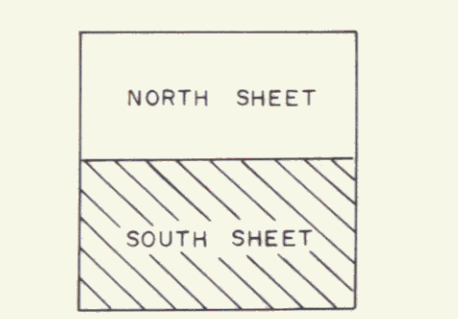


To accompany 1984 Assessment Report by: S. Parry, Z. Wyrwal

January, 1985 N.T.S. Ref 105 F 09



- LEGEND**
- Soil sample site
  - Silt sample site
  - Chip sample
  - 1000 ppm As
  - 5000 ppm As
  - Property boundary
  - - - Section line



CANAMAX RESOURCES INC.  
**KETZA RIVER PROPERTY**  
 WATSON LAKE MINING DISTRICT - YUKON  
**GEOCHEMICAL PLAN**  
**ARSENIC ppm 091621**  
 100 0 100 200 300 metres  
 Scale 1:5000  
 To accompany 1984 Assessment Report by S. Davis, Z. Wylwajl  
 January, 1985 N.T.S. Ref. 105F09

**FIGURE 3d**



- LEGEND**
- Diamond drill holes, vertical, inclined
  - Roads
  - Property boundary
  - Section line

CANAMAX RESOURCES INC.  
**KETZIA RIVER PROPERTY**  
 WATSON LAKE MINING DISTRICT - YUKON

**1984 DRILL LOCATIONS**

100 0 100 200 300 metres  
 Scale 1:5000

To accompany 1984 Assessment Report by: S. Parry, Z. Wyrwal

**091621**  
 January, 1985

*[Signature]*  
 N.T.S. Ref. 105F09

FIGURE 4

APPENDIX I

Diamond Drill Logs













































APPENDIX II

Statement of Costs

STATEMENT OF COSTS

Summary of Work: Geochemical Sampling, Diamond Drilling

Period of Work: June 1 - September 15, 1984

Diamond Drilling - Connors Drilling  
2007 West Trans Canada Highway  
Kamloops, B.C. V1S 1A7

532.35 metres NQ drilling @ \$60.97/metre plus field cost and mob/demob \$39,445.00  
Invoice Nos. 12745, 12802, 12822

Geochemical Analyses - Rossbacher Laboratory Ltd.  
2225 S. Springer Avenue  
Burnaby, B.C. V6B 3N1

733 samples analyzed for Au and As @ \$7.35/sample 5,387.55  
Invoice Nos. 4445, 4297

TOTAL \$44,832.55

=====



INVOICE NO: 12745  
 DATE: August 3, 1984  
 CONTRACT NO: 22-416

Connors Drilling Ltd. 2007 West Trans Canada Highway, Kamloops, B.C. Canada V1S 1A7 (604) 374-3366 Telex: 04-88391

Canamax Resources  
 #601 - 535 Thurston Street  
 Vancouver, B.C. V6E 3L6

**RECEIVED**  
 AUG 8 1984  
 VANCOUVER OFFICE

SURFACE DIAMOND DRILLING  
 TETZA RIVER PROPERTY - ROSS RIVER, Y.T.  
 JULY 1 - 15, 1984

DRILL # 1

MOBILIZATION

KAMLOOPS TO FIRST DRILL SITE @ LUMP SUM

\$ 8,000.00

FOOTAGE FEE

HOLE #	SIZE	ANGLE	OPERATION	FROM	TO	FEET	RATE		
KR1	NW	-90°	OVERBURDEN	0'	5'	5'	22.00	\$	110.00
KR1	NQ	-90°	CORING	5'	45'	40'	18.40		736.00
KR2	NW	-90°	OVERBURDEN	0'	5'	5'	22.00		110.00
KR2	NQ	-90°	CORING	5'	55'	50'	18.40		920.00
R3	NW	-90°	OVERBURDEN	0'	8'	8'	22.00		176.00
KR3	NQ	-90°	CORING	8'	65'	57'	18.40		1,048.80
KR4	NW	-90°	OVERBURDEN	0'	5'	5'	22.00		110.00
KR4	NQ	-90°	CORING	5'	44'	39'	18.40		717.60
KR5	NW	-90°	OVERBURDEN	0'	9'	9'	22.00		198.00
KR5	NQ	-90°	CORING	9'	147'	138'	18.40		2,539.20
KR6	NW	-90°	OVERBURDEN	0'	7'	7'	22.00		154.00
KR6	NQ	-90°	CORING	7'	66'	59'	18.40		1,085.60
KR7	NW	-90°	OVERBURDEN	0'	14'	14'	22.00		308.00
KR7	NQ	-90°	CORING	14'	127'	113'	18.40		2,079.20
KR8	NW	-90°	OVERBURDEN	0'	7'	7'	22.00		154.00
KR8	NQ	-90°	CORING	7'	135'	128'	18.40		2,355.20
KR9	NW	-90°	OVERBURDEN	0'	17'	17'	22.00		374.00
KR9	NQ	-90°	CORING	17'	197'	180'	18.40		3,312.00
K910	NW	-90°	OVERBURDEN	0'	5'	5'	22.00		110.00
K910	NQ	-90°	CORING	5'	167'	162'	18.40		2,980.80
								1048'	19,578.40

FIELD COST WORK

DATE	OPERATION	MAN HRS	RIG HRS	COMMENTS
12/07/84	WATERLINES	3.0	1.5	MOVE OVER 6 MAN HOURS
15/07/84	SET UP	1.0	.5	MOVE OVER 6 MAN HOURS
		4.0	2.0	

4 MAN HOURS @ 30.00  
 2 RIG HOURS @ 24.00

\$120.00  
 48.00

ADD & EXT. CORRECT.  
 APPROVED

DATE

Aug 14 1984

168.00

\$27,746.40

OK to pay - J. Tarry  
 CK 53,000 SEP 06 1984

<916.80>

\* 26,829.60

Subtract: ① Meals 11th-15th 4 meals x \$10 = \$40.00

② Casing above ground: 14.4 feet x \$22.00 = \$316.80 (see attached list)



VANCOUVER OFFICE

INVOICE NO: 12802  
 DATE: September 11, 1984  
 CONTRACT NO: 22-416

**Connors Drilling Ltd.** 2007 West Trans Canada Highway, Kamloops, B.C. Canada V1S 1A7 (604) 374-3366 Telex: 04-88391

Canamax Resources Inc.  
 #601 - 535 Thurlow Street  
 Vancouver, B.C.  
 V6E 3L6

SURFACE DIAMOND DRILLING  
 KETZA RIVER PROPERTY - ROSS RIVER, Y.T.  
AUGUST 16 - 31, 1984

DRILL # 1

FOOTAGE FEE

HOLE #	SIZE	ANGLE	OPERATION	FROM	TO	FEET	RATE	
KR34	NQ	-90°	CORING	77'	163'	86'	18.40	\$1,582.40 ✓
KR35	NW	-78°	OVERBURDEN	0'	12'	12'	22.00	264.00 ✓
KR35	NQ	-78°	CORING	12'	29'	17'	18.40	312.80 ✓
KR35	NQ	-78°	TRI-CONE	29'	129'	100'	18.40	1840.00 ✓
KR36	NW	-60°	OVERBURDEN	0'	16'	16'	22.00	352.00 ✓
KR36	NQ	-60°	CORING	16'	93'	77'	18.40	1,416.80 ✓
KR37	NW	-60°	OVERBURDEN	0'	5'	5'	22.00	110.00 ✓
KR37	NQ	-60°	CORING	5'	134'	129'	18.40	2,373.60 ✓
KR38	NW	-60°	OVERBURDEN	0'	3'	3'	22.00	66.00 ✓
KR38	NQ	-60°	CORING	3'	113'	110'	18.40	2,024.00 ✓
KR39	NW	-90°	OVERBURDEN	0'	3'	3'	22.00	66.00 ✓
KR39	NQ	-90°	CORING	3'	53'	50'	18.40	920.00 ✓
KR40	NW	-90°	OVERBURDEN	0'	5'	5'	22.00	110.00 ✓
KR40	NQ	-90°	CORING	5'	93'	88'	18.40	1,619.20 ✓
KR41	NW	-60°	OVERBURDEN	0'	5'	5'	22.00	110.00 ✓
KR41	NQ	-60°	CORING	5'	163'	158'	18.40	2,907.20 ✓
KR42	NW	-60°	OVERBURDEN	0'	15'	15'	22.00	330.00 ✓
KR42	NQ	-60°	CORING	15'	103'	88'	18.40	1,619.20 ✓
KR43	NW	-60°	OVERBURDEN	0'	20'	20'	22.00	440.00 ✓
KR43	NQ	-60°	CORING	20'	83'	63'	18.40	1,159.20 ✓
KR44	NW	-60°	OVERBURDEN	0'	5'	5'	22.00	110.00 ✓
KR44	NQ	-60°	CORING	5'	112'	107'	18.40	1,968.80 ✓
KR45	NW	-90°	OVERBURDEN	0'	2'	2'	22.00	44.00 ✓
KR45	NQ	-90°	CORING	2'	71'	69'	18.40	1,269.60 ✓
							1233'	

*Footage rate not F/C*  
 23014.80  
~~521,174.80~~

FIELD COST WORK

DATE	OPERATION	MAN HRS	RIG HRS	COMMENTS
<u>DRILLING</u>				
20/08/84	REAMING	16.0	8.0	KR34 (15 - 50') ✓
21/08/84	REAMING	20.0	10.0	KR34 (50 - 90')
23/08/84	TRI-CONE	36.0	18.0	KR35 (29 - 100')
23/08/84	REAMING	5.0	2.5	KR35 (12 - 29')
24/08/84	CASING-SET	12.0	6.0	KR35
24/08/84	TRI-CONE	24.0	12.0	KR35 (101 - 129')

72.005 OCT 11 1984

*Footage rate See notes*  
*Footage Rate S.P. as above*

*delete S.P.*



INVOICE NO: 12802  
 DATE: September 11, 1984  
 CONTRACT NO: 22-416

CANAMAX  
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 SEP 13 1984  
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Connors Drilling Ltd. 2007 West Trans Canada Highway, Kamloops, B.C. Canada V1S 1A7 (604) 374-3366 Telex: 04-88391

- 2 -

FIELD COST WORK cont'd

DATE OPERATION MAN HRS RIG HRS COMMENTS

DRILLING

25/08/84	RODS-PULL	3.0	1.5	KR35 } More for hole 3S OK.
25/08/84	CASING-PULL	3.0	1.5	KR35 }
31/08/84	REAMING	2.0	1.0	KR44 (5 - 9')

OTHER

21/08/84	OTHER	4.0	2.0	REGAIN CIRCULATION ✓
22/08/84	MOVING	10.0	5.0	MOVE OVER 6 MAN HOURS ✓
22/08/84	WATERLINES	4.0	2.0	MOVE OVER 6 MAN HOURS ✓
25/08/84	SET UP/DOWN	2.0	1.0	MOVE OVER 6 MAN HOURS ✓
25/08/84	WATERLINES	6.0	3.0	MOVE OVER 6 MAN HOURS ✓
26/08/84	DELAY	8.0	4.0	TOO DARK TO MOVE ✓
27/08/84	MOVING	10.0	5.0	MOVE OVER 6 MAN HOURS ✓
27/08/84	WATERLINES	3.0	1.5	MOVE OVER 6 MAN HOURS ✓
29/08/84	MOVING	4.0	2.0	MOVE OVER 6 MAN HOURS ✓
29/08/84	OTHER	4.0	2.0	MOVE OVER 6 MAN HOURS ✓
30/08/84	MOVING	3.0	1.5	RELINE MACHINE ✓
31/08/84	OTHER	1.0	.5	CONDITION HOLE ✓
		<u>180.0</u>	<u>90.0</u>	

Already charged  
 - part of hole 3S more

✓ 120	180 MAN HOURS @ 30.00	<del>\$5,400.00</del>	3600.00
✓ 60	90 RIG HOURS @ 24.00	<del>2,160.00</del>	1440.00

5,040.00  
~~\$ 7,560.00~~

CONSUMABLES

DATE	MATERIAL	QUANTITY	UNIT PRICE	
22/08/84	MUD - GEL	2	24.01	\$ 48.02 ✓
24/08/84	MUD - GEL	50	24.01	1,200.50 ✓
24/08/84	MUD - GS550	4	207.00	828.00 ✓
31/08/84	MUD - GEL	1	24.01	24.01 ✓
31/08/84	MUD - GS550	1	207.00	207.00 ✓
				<u>2,307.53</u> ✓
			PLUS 15%	<u>346.13</u> ✓

2,653.66 ✓

MEALS SUPPLIED BY CLIENT

DATE	DESCRIPTION
16/08/84	10 MEALS
17/08/84	4 MEALS
19/08/84	4 MEALS
20/08/84	12 MEALS

72.005 OCT 11 1984



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INVOICE NO: 12802  
 DATE: September 11, 1984  
 CONTRACT NO: 22-416

Connors Drilling Ltd. 2007 West Trans Canada Highway, Kitimat, B.C. Canada V1S 1A7 (604) 374-3366 Telex: 04-88391

- 3 -

MEALS SUPPLIED BY CLIENT cont'd

DATE	DESCRIPTION
21/08/84	12 MEALS
22/08/84	12 MEALS
23/08/84	12 MEALS
24/08/84	12 MEALS
25/08/84	12 MEALS
26/08/84	12 MEALS
27/08/84	12 MEALS
28/08/84	12 MEALS
29/08/84	9 MEALS
30/08/84	13 MEALS
31/08/84	12 MEALS
<u>160</u> MEALS	÷ 3 = 53 1/3 MAN DAYS @ 30.00

\$(1,600.00) ✓

~~29,788.46~~

29,108.46

72.005 OCT 11 1984

O.K. Steve Pans #6  
 Minus field cost items  
 not approved on page 1

KR 35 Truce 29'-129'  
 should be charged at  
 footage rate of \$18.40 = \$1840,  
not at field cost rate as shown

Steve Pansy  
 Rest of bill is approved  
 S.P.

ADD & EXT CORRECT	DATE
<i>[Signature]</i>	<i>[Signature]</i>
APPROVED	



INVOICE NO: 12822  
 DATE: September 21, 1984  
 CONTRACT NO: 22-416

Connors Drilling Ltd. 2007 West Trans Canada Highway, Kamloops, B.C. Canada V1S 1A7 (604) 374-3366 Telex: 04-88391

Canamax Resources Inc.  
 #601 - 555 11th Avenue  
 Vancouver B.C.  
 V6B 1J6

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 SEP. 25 1984  
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SURFACE DIAMOND DRILLING  
 KETZA RIVER PROPERTY - ROSS RIVER, Y.T.  
 SEPTEMBER 1 - 15, 1984

DRILL # 1

FOOTAGE FEE

HOLE #	SIZE	ANGLE	OPERATION	FROM	TO	FEET	RATE	
K45	NQ	-90°	CORING	71'	78'	7'	18.40	\$ 128.80
K46	NW	-90°	OVERBURDEN	0'	2'	2'	22.00	44.00
K46	NQ	-90°	CORING	2'	67'	65'	18.40	1,196.00
K47	NW	-90°	OVERBURDEN	0'	3'	3'	22.00	66.00
K47	NQ	-90°	CORING	3'	72'	69'	18.40	1,269.60
K48	NW	-90°	OVERBURDEN	0'	5'	5'	22.00	110.00
K48	NQ	-90°	CORING	5'	79'	74'	18.40	1,361.60
K49	NW	-90°	OVERBURDEN	0'	3'	3'	22.00	66.00
K49	NQ	-90°	CORING	3'	53'	50'	18.40	920.00
K50	NW	-90°	OVERBURDEN	0'	3'	3'	22.00	66.00
K50	NQ	-90°	CORING	3'	103'	100'	18.40	1,840.00
K51	NW	-60°	OVERBURDEN	0'	20'	20'	22.00	440.00
K51	NQ	-60°	CORING	20'	332'	312'	18.40	5,740.80
K52	NW	-90°	OVERBURDEN	0'	3'	3'	22.00	66.00
K52	NQ	-90°	CORING	3'	103'	100'	18.40	1,840.00
K53	NW	-90°	OVERBURDEN	0'	9'	9'	22.00	198.00
K53	NQ	-90°	CORING	9'	143'	134'	18.40	2,465.60
K54	NW	-90°	OVERBURDEN	0'	11'	11'	22.00	242.00
K54	NQ	-90°	CORING	11'	113'	102'	18.40	1,876.80
K55	NW	-90°	OVERBURDEN	0'	9'	9'	22.00	198.00
K55	NQ	-90°	CORING	9'	123'	114'	18.40	2,097.60
K56	NW	-90°	OVERBURDEN	0'	7'	7'	22.00	154.00
K56	NQ	-90°	CORING	7'	93'	86'	18.40	1,582.40
K57	NW	-90°	OVERBURDEN	0'	16'	16'	22.00	352.00
K57	NQ	-90°	CORING	16'	393'	377'	18.40	6,936.80
K58	NW	-90°	OVERBURDEN	0'	20'	20'	22.00	440.00
K58	NQ	-90°	CORING	20'	353'	333'	18.40	6,127.20
K59	NW	-90°	OVERBURDEN	0'	13'	13'	22.00	286.00
K59	NQ	-90°	CORING	13'	383'	370'	18.40	6,808.00
							2417'	\$44,919.20

FIELD COST WORK

DATE	OPERATION	MAN HRS	RIG HRS	COMMENTS
09/09/84	REAMING	2.0	1.0	HOLE #K56



INVOICE NO 12822  
 DATE: September 21, 1984  
 CONTRACT NO 22-416

Connors Drilling Ltd. 2007 West Trans Canada Highway, Kamloops, B.C. Canada V1S 1A7 (604) 374-3366 Telex: 04-88391

- 2 -

FIELD COST WORK cont'd

DATE	OPERATION	MAN HRS	RIG HRS	COMMENTS
OTHER				
06/09/84	MOVING	6.0	3.0	MOVE OVER 6 MAN HOURS
06/09/84	WATERLINES	2.0	1.0	MOVE OVER 6 MAN HOURS
08/09/84	MOVING	1.0	.5	MOVE OVER 6 MAN HOURS
09/09/84	MOVING	2.0	1.0	MOVE OVER 6 MAN HOURS
09/09/84	WATERLINES	2.0	1.0	MOVE OVER 6 MAN HOURS
10/09/84	DELAY	2.0	1.0	WAIT FOR HOLE TO BE SPOTTED
		<u>17.0</u>	<u>8.5</u>	

17 MAN HOURS @ 30.00 \$510.00  
 8.5 RIG HOURS @ 24.00 204.00 \$ 714.00

CONSUMABLES

DATE	MATERIAL	QUANTITY	UNIT PRICE	
01/09/84	MUD - GEL	1	24.01	\$ 24.01
06/09/84	MUD - GEL	1	24.01	24.01
06/09/84	MUD - POLYMER	1	207.00	207.00
07/09/84	CASING - 5' NW	1	72.12	72.12
07/09/84	MUD - GEL	2	24.01	48.02
08/09/84	MUD - POLYMER	1	207.00	207.00
09/09/84	MUD - POLYMER	1	207.00	207.00
10/09/84	MUD - POLYMER	1	207.00	207.00
11/09/84	MUD - POLYMER	1	207.00	207.00
12/09/84	MUD - POLYMER	1	207.00	207.00
				<u>1,410.16</u>
			PLUS 15%	<u>211.52</u>
				1,621.68

MEALS SUPPLIED BY CLIENT

DATE	DESCRIPTION
01/09/84	12 MEALS
02/09/84	12 MEALS
04/09/84	12 MEALS
05/09/84	12 MEALS
06/09/84	12 MEALS
07/09/84	12 MEALS
08/09/84	12 MEALS
09/09/84	12 MEALS
10/09/84	12 MEALS
11/09/84	12 MEALS



INVOICE NO 12822  
 DATE September 21, 1984  
 CONTRACT NO 22-416

Connors Drilling Ltd. 2007 West Trans Canada Highway, Kamloops, B.C. Canada V1S 1A7 (604) 374-3366 Telex: 04-88391

- 3 -

MEALS SUPPLIED BY CLIENT cont'd

DATE	DESCRIPTION	
12/09/84	12 MEALS	
13/09/84	12 MEALS	
14/09/84	4 MEALS	
15/09/84	2 MEALS	
	150 MEALS ÷ 3 = 50 MAN DAYS @ 30.00	\$(1,500.00)

MISCELLANEOUS

23/07/84	1/2 OF TRANS-NORTH AIR FLIGHT #64113	\$82.80
	PLUS 15%	12.42
		95.22

DEMOBILIZATION

@ LUMP SUM	4,000.00
	<u>\$49,850.10</u>

*Steve Pangloss*

ADD & EXT CORRECT	DATE
<i>[Signature]</i>	<i>Oct 11/84</i>
APPROVED	

**ROSSBACHER LABORATORY LTD.**

INVOICE

CANAMAX  
**RECEIVED**  
 AUG 21 1984  
**RECEIVED**  
 VANCOUVER OFFICE

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL: (604) 299-6910

TO: CANAMAX RESOURCES INC.  
 601-535 THURLOW STREET  
 VANCOUVER B.C.

INVOICE NO. : 4297  
 CERTIFICATE NO. : 84213  
 DATE ANALYSED : JULY 17 1984

PROJECT: 7067 Ketzia

QTY	DESCRIPTION		UNIT	COST	NET COST
207 ✓	GEOCHEM ANALYSIS	Au	@	\$ 3.75	\$ 776.25 ✓
217 ✓	GEOCHEM ANALYSIS	As	@	\$ 3.00	\$ 651.00 ✓
207 ✓	SOIL PREP		@	\$ 0.60	\$ 124.20 ✓
				SUBTOTAL	\$ 1551.45 ✓ 1551.45 ✓
				TOTAL :	\$ 1551.45 ✓

OK  
 SB

ADDRESS CORRECT *[Signature]* DATE *[Signature]*  
 RECEIVED

CK. 61 ✓ 19 AUG 30 1984

**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

**INVOICE**

TO : CANAMAX RESOURCES INC.  
 601-535 THURLOW STREET  
 VANCOUVER, B.C.  
 PROJECT No.: 7067 KETZA

INVOICE No.: 4445  
 CERTIFICATE No.: 84344  
 DATE ANALYSED: SEPT. 24, 1984  
 FILE NAME: CX067344

QTY.	DESCRIPTION	UNIT COST	SUB-TOTAL	TOTAL
633	GEOCHEM ANALYSIS FOR Au	\$ 3.75	\$2373.75 ✓	
662	GEOCHEM ANALYSIS FOR As	3.00	1986.00 ✓	
633	SOIL/SILT PREPARATION	0.60	379.80 ✓	
				\$ 4739.55
				=====
				\$ 4739.55 <i>β</i>
				=====

CK 72.01 1 OCT 11 1984

ADD & EXT CORRECT \_\_\_\_\_ DATE \_\_\_\_\_  
*B. Lemah*  
 APPROVED \_\_\_\_\_

CANAMAX  
**RECEIVED**  
 OCT 1 1984  
**RECEIVED**  
 VANCOUVER OFFICE

TERMS - NET 30 DAYS

APPENDIX III

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

NAME	S. E. Parry
EDUCATION	4 year B.Sc. (Hons. Geological Sciences) Queen's University, Kingston, Ontario M.Sc. (Geology) University of Western Ontario, London, Ontario
EXPERIENCE	Geological Assistant - Cominco Ltd. - 1975 Geological Assistant - Shell Canada Resources - 1976 Geologist - Falconbridge Copper Ltd. - 1977, 1978 Geologist - AMAX of Canada Limited - 1979-1983 Geologist - Canamax Resources Inc. - 1983-present

STATEMENT OF QUALIFICATIONS

NAME                    Zbigniew Wytrwal

ADDRESS                3167 Mt. Seymour Parkway  
North Vancouver, B.C. V7H 1G2

EDUCATION             Uranium City High School - Diploma

EXPERIENCE            1964 - 1980 - Eldorado Nuclear Limited - Student Labourer to  
Open Pit Geologist  
1980 - David Minerals Limited - Senior Technician  
1981 - 1983 - Pacific Foundation Link Society - Crew Chief  
1984 - Canamax Resources Inc. - Temp. Geologist

APPENDIX IV

Analytical Methods

# Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,  
BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910  
AREA CODE: 604

Jan. 1982

(1)

## GEOCHEMICAL ANALYTICAL METHODS CURRENTLY IN USE AT ROSSBACHER LABORATORY LTD.

### A. SAMPLE PREPARATION

1. Geochem. Soil and Silt: Samples are dried, and sifted to minus 80 Mesh, through stainless steel, or nylon screens.
2. Geochem. Rock: Samples are dried, crushed to minus  $\frac{1}{2}$  inch, split, and pulverized to minus 100 mesh.

### B. METHODS OF ANALYSIS

1. Multi-element: (Mo, Cu, Ni, Co, Mn, Fe, Ag, Zn, Pb, Cd):  
0.5 Gram sample is digested for four hours with a 15:85 mixture of Nitric-Perchloric acid.  
The resulting extract is analyzed by Atomic Absorption spectroscopy, using Background Correction where appropriate.
2. Antimony: 0.50 Gram sample is fused with Ammonium Iodide and dissolved.  
The resulting solution is extracted into TOPO/MIBK and analyzed by Atomic Absorption spectroscopy.
3. Arsenic: 0.25 Gram sample is digested with Nitric-Perchloric acid.  
Arsenic from the solution is converted to arsine, which in turn reacts with silver D.D.C. The resulting solution is analyzed by colorimetry.
4. Barium: 0.50 Gram sample is repeatedly digested with  $\text{HClO}_4$ - $\text{HNO}_3$  and HF.  
The solution is analyzed by Atomic Absorption spectroscopy.
5. Biogeochemical: Samples are dried, and ashed at  $550^\circ\text{C}$ . and the resulting ash analyzed as in #1, multielement analysis.
6. Bismuth: 0.50 Gram sample is digested with Nitric acid. The solution is analyzed by Atomic Absorption spectroscopy.
7. Chromium: 0.25 Gram sample is fused with Sodium Peroxide. The solution is analyzed by Atomic Absorption spectroscopy.

# Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S SPRINGER AVE.  
BURNABY, B. C.  
CANADA  
TELEPHONE: 799-6910  
AREA CODE: 604

(2)

## METHOD OF ANALYSIS (CONT.)

8. Fluorine: 0.50 Gram sample is fused with a Carbonate Flux, and dissolved.  
The resulting solution is analyzed for Fluorine by use of an Ion Selective Electrode.
9. Gold: 10.0 Gram sample is roasted at 550°C. and dissolved in Aqua Regia. The resulting solution is subjected to a Methylisobutyl Ketone extraction, which extract is analyzed for Gold using Atomic Absorption spectroscopy.
10. Mercury: 1.00 Gram sample is digested with Nitric and Sulfuric acids. The solution is analyzed by Atomic Absorption spectroscopy, using a cold vapor generation technique.
11. Partial Extraction and Fe/Mn oxides: 0.50 Gram sample is extracted using one of the following: Hot or cold 0.5 N. HCL, 2.5% E.D.T.A., Ammonium Citrate, or other selected organic acids. The solution is analyzed by use of Atomic Absorption spectroscopy.
12. pH: An aqueous suspension of soil, or silt is prepared, and its pH is measured by use of a pH meter.
13. Rapid Silicate Analysis: 0.10 Gram sample is fused with Lithium Metaborate, and dissolved in HNO<sub>3</sub>.  
The solution is analyzed by Atomic Absorption for SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, MgO, CaO, Na<sub>2</sub>O, K<sub>2</sub>O, TiO<sub>2</sub>, P<sub>2</sub>O<sub>5</sub>, and MnO.
14. Tin: 0.50 Gram sample is sublimated by fusion with Ammonium Iodide, and dissolved.  
The resulting solution is extracted into TOPO/MIBK and analyzed by Atomic Absorption spectroscopy.
15. Tungsten: 1.00 Gram sample is sintered with a carbonate flux, and dissolved.  
The resulting extract is analyzed colorimetrically, after reduction with Stannous Chloride, by use of Potassium Thiocyanate.