

vrcl. copy

178-#445-# 7013



Report on Electromagnetic Survey on  
a Portion of the Camborne Group of Claims, Revel-  
stoke Mining Division in 82K/13E, Longitude 117°39'W,  
Latitude 50°47'N. Claims are owned by Clifford T. Sun-  
ham and Guy Allen. Operator - Madison Oils Ltd.  
Consultant - Guy Allen, P. Eng.  
Author of Report - Guy Allen, P. Eng.  
Submitted October 20, 1978

## TABLE OF CONTENTS

	Page
Introduction	1
Description of Property and Ownership	1
Location	1
Access	1
Physiography	2
History	2
Production Record	2
Regional Geology	2
Geology of the Property	2
Economic Geology	3
Description of Workings	3
1978 Exploration Program	3
Geophysical Results	3
Conclusions	4
Recommendations	5
Cost Estimate	5
References	6
Itemized Cost Statement	7
Appendix A: Assay Certificate	
Appendix B: EM16 Field Notes	

## LIST OF ILLUSTRATIONS

Plate No. 1 - Location Map	8
Figure No. 1 - Electromagnetic Survey	pocket
Figure No. 2 - Topographic Map	pocket
Figure No. 3 - Claims Map	pocket

### Introduction

An EM 16 electromagnetic survey was carried out over a portion of the Camborne Gold Property during the period September 10, 1978 to September 19, 1978. Personnel employed on the project included Guy Allen, P. Eng; Clifford T. Runham, prospector and field technician; and Kason Collins, field assistant. The work was performed under the supervision of Allen Resource Consultants Ltd. for Madison Oils Ltd. Results of the electromagnetic survey work for the period Sept. 13 to Sept. 16 inclusive were valueless due to a malfunctioning instrument. As a consequence, many of the lines had to be rerun during the subsequent period. Data was evaluated, maps prepared, and report written by Guy Allen, subsequent to the field operations, during the early part of October, 1978.

### Description of Property and Ownership

The Camborne Gold Property consists of ten mineral claims covering seventeen reverted crown granted mineral claims in the Revelstoke Mining Division. The claims are described as follows.

<u>Claim No.</u>	<u>Crown Grants</u>	<u>C.G. Lot No.</u>	<u>Reg. Owner</u>	<u>Expiry Date</u>
322(1)	Mascotte Fraction	5418	C.T. Runham	Jan. 18, 1979
	Gold Fly	5421		
402(9)	Balfour	4777	C.T. Runham	Sept. 29, 1978
	Blue Jay	5184		
404(10)	Criterion	5417	C.T. Runham	Oct. 18, 1978
	Rosslend	4775		
405(10)	Highland Mary	5171	C.T. Runham	Oct. 18, 1978
406(10)	Eva	5172	C.T. Runham	Oct. 18, 1978
	Wedge Fr.	5176		
	Iron Dollar	5173		
407(10)	Oyster	5416	C.T. Runham	Oct. 18, 1978
425(12)	Stockholm	6934	C.T. Runham	Dec. 28, 1978
	Stockholm Fr.	5424		
427(12)	Joker	5404	C.T. Runham	Dec. 28, 1978
	Last Chance	5174		
452(2)	Cholla	5399	C.T. Runham	Feb. 20, 1979
11241	Steve Namon	4761	G.B. Allen	Oct. 1, 1978

All of the above claims are, by agreement, owned as to 50% by G.B. Allen, Box 7248, Postal Station E, Calgary, Alberta; and 50% by C.T. Runham, Mara, British Columbia. All of the claims are under option to Madison Oils Ltd, Ste 508, 630 - 8th Ave. S.W., Calgary, Alberta.

### Location

The claims are located in the Revelstoke Mining Division, northeast of the head of Upper Arrow Lake, and immediately northeast of the abandoned town of Camborne. More specifically, the location is in NTS 22K/13E at Longitude 117°38'W and Latitude 50°47'N.

### Access

The property may be reached by Highway No. 23 which runs south from Revelstoke to Shelter Bay, where further passage is by means of a ferry to Galena Bay. To reach the property travel is north from the ferry dock by secondary road to Camborne. Access within the western border of the property is by means of a rough four-wheel drive road onto the Stockholm claim. Beyond that point old footpaths lead to the inner claims.

### Physiography

The claims are located on the steep western and southwestern slopes of Lexington Mountain. Elevations range from approximately 1700 feet ASL in the valley floor of the Incomappleux River to 4700 feet ASL on the eastern part of the property. The slopes are heavily forested with mature trees. There is evidence of old logging operations on the upper slopes, and more recent tree cutting lower down. Indications of a substantial fire at least thirty or forty years old can still be seen. Marshy and poorly drained areas abound in willow and devil's club. The area is drained by a few narrow creeks running into the Incomappleux River.

### History

Exploration and development of these original crown granted claims dates back to the turn of the century when the Eve mine and the Oyster-Criterion mine were operated separately, each with its own ten-stamp mill. This phase of activity ceased around 1910.

In the 1930's the properties were consolidated by Meridian Mining Co., who carried out production operations intermittently until 1941.

In 1968 the property was examined by the Duval Corporation, and in 1974 exploration was carried out by Impala Resources Ltd.

### Production Record

According to the British Columbia Department of Mines and Petroleum Resources the record of production on these claims is as follows:-

	Year	Tonnage	Au oz.	Ag oz.
Eve	1903-1908	31,656	7,561	989
Oyster-Criterion	1904	10,102	1,613	600
Meridian Mining Co.	1935-1941	56,086	8,313	3,732

### Regional Geology

The general area is underlain by schists, phyllites, and slates belonging to the the Lardeau series of the Windermere of Precambrian age. This is the result of a series of mixed sediments composed of impure shales and sandstones which have been altered by intense regional and thermal metamorphism. The rocks are folded, faulted and fissured, which in some cases are filled with gold-bearing quartz and other minerals.

### Geology of the Property

Within the claims boundaries Lardeau series rocks exposed include a black carbonaceous rock which may be classed as a slate, phyllite, or schist, depending on the degree of metamorphism. This is overlain by grey to greenish phyllites and schists which may be calcareous in part. Above this is a black lithology which appears to weather with a vesicular appearance.

Structurally, the area may be divided into three belts running in an approximate east-west direction. The northeast and southwest belts have relatively constant strike of S70E and dip of 70 degrees south. The central, narrower belt has rocks that are much contorted and to which no regular strikes and dips can be assigned.. This belt represents the core of the overturned Lexington anticline, a vital structure in ore control

### Economic Geology

Mineralized deposits on the property are the result of moderate temperature hypogene solutions moving through fissure veins. The veins are quartzose with associated carbonates, and the absence of high temperature minerals such as tourmaline, pyrrhotite, etc. The free gold has been concentrated in favorable locales as a result of secondary enrichment. It is the primary mineral of value in the veins.

Four veins of consequence have been located and developed. These include the Eva "A", Eva "B", Criterion, and the Oyster-Lucky Jack. Of these, only the Oyster-Lucky Jack does not have a production history. The veins generally run from a few inches up to fifteen feet in width, with the average being around two and a half to three feet. The higher gold values appear to be concentrated in chutes within the vein structures. Control of these chutes is suggested as being related to secondary cross-veins.

The gold occurs primarily in a free-milling form, but in minor cases it is locked in with associated pyrite. Silver and lead values may also be present as argentiferous galena.

### Descriptions of Workings

In the Eva property, both the "A" and "B" veins have been opened up on four levels with inter-connecting drifts and raises. These workings are reported as totalling well over a mile of drifts, crosscuts, and raises. The author observed that the portals for all these adits are presently caved.

The Criterion vein has been developed on three levels and stoped to the surface for 500 feet from the middle level.

The Lucky Jack vein has been traced for 700 feet on the surface and opened up by pit and two short adits. There has been no production from this zone.

### 1978 Exploration Program

The purpose of the 1978 exploration program was to try and attempt through geophysical means to trace the Eva 'A', and hopefully the Eva 'B' veins from the areas of their known occurrences on the upper portion of the western slope of Lexington Mountain, down, to the west, into the valley of the Incomapleux River.

A grid was established by running a baseline in a northwest direction for two thousand feet from the portal of the Eva No. 7 adit. Crosslines were turned off at 1000, 300, 500, 700, 900, 1100, 1300, 1500, 1700, 1900, and 2000 feet from the portal. Stations were established every fifty feet on the crosslines and altimeter readings and EM 16 readings were taken for each station. For some of the lines two set of EM 16 readings, using different signal sources were determined. The first four days' EM 16 readings were of no value due to the malfunctioning of the instrument, and those lines had to be rerun. Three rock samples were taken for assay during the course of the survey. A total of 7.5 km. of EM line was run, but due to instrument malfunction, only 3.6 km. was usable.

### Geophysical Results

The electromagnetic survey was run along the northeast-southwest crosslines with readings taken every fifty feet. The instrument used was a Ronka EM 16. This device acts as a receiver only utilizing the primary electromagnetic fields generated by V.L.F. marine communication stations. In this case the station used was NLK/NPS located at Jim Creek, Washington, U.S.A., which operates at a frequency of 18.6 KHZ. Attempts were made to use the Cutler, Maine station, but consistently

valid readings could not be acquired. The in phase data was filtered according to a method described by D.C. Fraser, Geophysics Vol. 34, No. 6 (December, 1969). The results of this filtering is shown on Figure 1, along with profile plots of the in phase and quadrature readings. Using the filter method of resolving data topographic effects are minimized and contoured quantities are derived. High positive values are indicative of potential underlying conductive zones.

Fig. No. 1 covers the surveyed area as well as an area to the southeast which is partially transected by underground workings on the Eva 'A' vein. Map data for these workings was taken from the old underground surveys conducted by Meridian Mining Co. Ltd. in the 1930's. The portal to the Eva No. 7 adit was used as the starting point for this year's electromagnetic survey grid and provides a reference point for tying together the two sets of data. It was originally hoped to extend the crosslines farther to the southwest on the Last Chance claim. This was prevented by rock bluffs and faces that would have required mountain climbing equipment to traverse. As a consequence it is not clear whether the conductor traces encountered are manifestations of the Eva 'A' vein, or the more northerly Eva 'B' and/or Criterian veins.

It is evidenced that two major conductive trends stand out. The more stronger strike direction runs at  $290^{\circ}$ , whereas the secondary trend varies from roughly due north to  $340^{\circ}$ . The stronger conductor trace extends through the vicinity of the Stockholm adit where a grab sample from the vein assayed 0.22 oz/ton of gold.

The old reports give a strike direction of  $320^{\circ}$  to both the Eva 'A' and Eva 'B' veins. It is suggested that the stronger conductor trace may one of these veins with the altered strike due to dip displacement downslope, or structural variations. No literature evidence is given to indicate which of the veins the Stockholm adit was driven on. Further electromagnetic work and geological mapping is necessary to define these relationships.

### Conclusions

The electromagnetic survey conducted over the western portion of the Camborne group of claims indicates the presence of primary and secondary conductive trends, the primary trend being roughly parallel to reported strikes of the known veins. The trends are relatively strong and persistent. The primary trend passes through the area of the Stockholm adit where 0.22 oz/ton of gold was assayed of a grab sample taken from the vein exposed at that location.

Attempts to determine which of the known vein structures is being traced by the conductor trend is hampered by the lack of electromagnetic data farther to the southeast on Lines 1SW, 3SW, 5SW, 7SW and 9SW. Unscalable cliff faces prevented the acquisition of this data.

During the course of the survey all of the reported adits on the Eva vein, as well as the Stockholm adit were examined. In each case the adit is caved at the portal and is inaccessible. Higher up on the mountain on the Wedge Fr. and Eva claims, there is an extensive, deep, elongate opening tracing the surface expression of this vein. It would appear that the vein has been stoped to the surface from levels up to 300 feet deep.

### Recommendations

Considering the present gold price and the history of past production of this property, there would appear to be excellent potential for an economic gold-producing operation. A number of meaningful activities can be carried out on this property to assess this potential.

1. Stockholm Adit area: Positive gold values were obtained from the vein as exposed at this portal. Further evaluation of this situation by the electromagnetic survey indicated the presence of a fairly strong conductor. Opening and cleaning out the Stockholm adit is recommended with subsequent sampling of the vein as exposed. Positive results from this action, combined with the electromagnetic data as a guide could locate short drill hole sites.
2. Oyster-Lucky Jack Vein: The area of this vein was not examined during the course of the present program, although this was considered the primary target. Shortages of time and available funds prevented a meaningful program being launched in that portion of the property. According to the old reports, the Oyster-Lucky Jack vein has a 700 foot length established mainly by surface cuts. Elevations of the various pits indicate at least 150 feet of depth. The vein is reported open for further extensions in all directions, and reported sample assays suggest it may be the richest of the major veins. Lack of development in the past is attributed to problems of access. An indication of reserves was mentioned by Emmons (1934) who said: "On the Lucky Jack, there is an indicated ore shoot having a minimum length of 200 feet, a width of 8 feet, and average gold content of 0.28 ounces (\$9.52) to the ton." Emmons dollar value was calculated with gold at \$34.00 per ounce. As far as can be determined from the records, there was never any appreciable production from this zone. The main recommendation for the next step in evaluating the Camborne Gold Property lies in assessing the potential of the Oyster-Lucky Jack vein. Effort should be made to trace and establish the length, width, and grade of this vein as it occurs at the surface. This will involve following the vein through covered areas by suitable geophysical means, clearing soil cover where strong indications of the vein are evidenced, blasting to expose fresh vein material, and sampling for assay. Old workings and trenches should also be cleared out, mapped and sampled.

### Cost Estimate

The following estimate is based on a three-man crew consisting of a geologist, field technician, and field assistant, working under the direction of a consulting engineer. Travelling and field time would total three weeks. The operation would be helicopter-supported out of Revelstoke with the camp established as near as possible to the old Oyster-Lucky Jack workings. The program would consist of laying out a grid of lines 100 feet apart with stations every 50 feet, to extend to the northwest beyond the Oyster workings, and to the southeast beyond the Lucky Jack workings. On the grid an electromagnetic survey, a magnetic survey, a topographic survey, a geological survey, and a soil sampling geochemical survey would be run. In addition, cleaning out of the old workings and sampling of exposed vein material would be undertaken. Trenching would be undertaken in geophysically anomalous areas with further sampling of any exposed vein material. The program would be conducted in late August or early September, 1979.

1. Crew; 3 men for 21 days @ \$275.00 per day	\$5,775.00
Supplies; 21 x 3 x \$10.00	\$630.00
Transportation & expenses	\$500.00
2. Camp; Gear rental	\$400.00
Supplies, powder, etc.	\$400.00
Permanent metal building	\$500.00
3. Geophysical Instrument rentals	\$400.00
4. Helicopter services	\$5,000.00
5. Radio rental	\$300.00
6. Consulting Engineer; Services	\$1,500.00
Expenses	\$500.00
7. Assays; rock and geochemical	\$1,000.00
8. Maps and Reports; preparation, drafting, typing, etc	\$1,200.00
	<u>Sub-total</u>
	\$18,105.00
Contingencies @ 20%	<u>\$3,620.00</u>
	<u>Total</u>
	\$21,725.00

#### References

British Columbia Dep't Mines & Petroleum Res.	Minister of Mines Annual Reports 1899 - P. 676, 1900 - P. 812, 1901 - P. 1021, 1902 - P. 138, 142 1903 - P. 127, 1904 - P. 119 1905 - P. 156, 1906 - P. 136 1907 - P. 94, 1925 - P. 261 1929 - P. 340, 1935 - P. E31 1939 - P. A78, 1968 - P. 265.
Errens, N.W., 1934	Report on the Meridian Mine, Camborne, British Columbia
Langley, A.G., 1934	General Summary of Progress Meridian Mining Co. Ltd.
McDougall, B.W.W., 1934	Report on Underground Develop- ment Meridian Mine, Camborne, B.C.
Warren, E.V., 1933	Geological Report - Meridian Mines, Camborne, British Columbia.



Expiry Date: April 22, 1970

*Guy Allen, P. Eng*  
*Oct. 20/78*



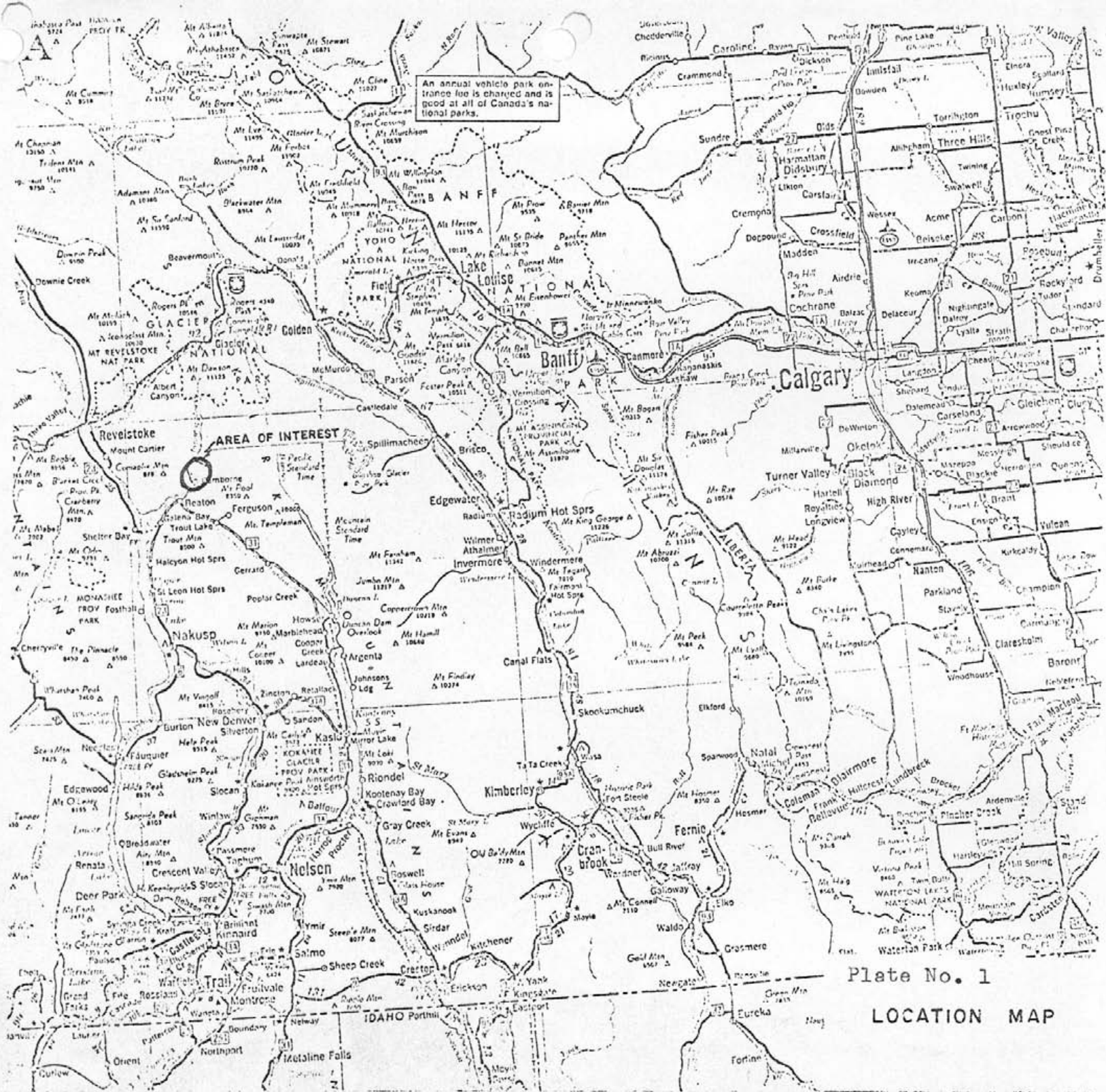
Itemized Cost Statement

1. Contract Fees:	
(a) C.T. Runham; 9 days (Sept. 10, 12-19 incl.) @ \$75	..... \$675.00
(b) M. Collins; 6 days (Sept. 10, 12-15 incl.) @ \$35	..... \$210.00
(c) G.B. Allen, P. Eng.; 3 days (Sept. 17-19) @ \$200	..... \$600.00
2. Food & Accomodation	
(a) Runham & Collins; 15 man-days @ \$10	..... \$150.00
(b) Allen; 3 man-days @ \$10	..... \$30.00
3. Transportation:	
(a) Runham & Collins; 3 round trips (Wawa, B.C. - Camborne)	
190 mi. x 3 x \$0.35	..... \$199.50
(b) Allen; 1 round trip (Calgary - Camborne)	
610 mi. x \$0.35	..... \$213.50
4. EM 16 Rental: 9 days @ \$6.00	..... \$54.00
5. Rock Assays: 3 x \$5.00	..... \$15.00
6. Report & Map Preparation:	
(a) G.B. Allen, P. Eng. 4 days @ \$200	..... \$800.00
(b) Drafting	..... \$71.00
(c) Typing	..... \$25.00
7. Miscellaneous:	
(a) Camp Gear rental; 9 days @ \$7.50	..... \$67.50
Total	\$3,110.50



Expires March 28, 1978

*Guy Allen, P. Eng.*  
*Oct. 20/77*



An annual vehicle park entrance fee is charged and is good at all of Canada's national parks.

AREA OF INTEREST

Plate No. 1  
LOCATION MAP

APPENDIX A

Assay Certificate

To: ALLEN RESOURCES CONSULTANTS  
P.O. Box 7248, Station E  
CALGARY, Alberta

Attn: Guy Allen



File No. 15920  
Date: September 27th, 1978  
Samples Rock

**Certificate of  
ASSAY OF  
LORING LABORATORIES LTD.**

SAMPLE No.	OZ./TON GOLD
<u>CANBORNE GOLD PROPERTY</u>	
<u>ROCK SAMPLES</u>	
19786	Vein at Portal of Stockholm Adit .220
19787	Float sample on Line 11Nw at Stn. 3.5NE in Creek bed .400
19788	Mineralized material from Eve No. 7 Dump .460
<b>I Hereby Certify</b> THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .	

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

*Ed McIsaac*  
Licensed Assayer of British Columbia

APPENDIX B

EM 16 Field Notes

LINE 13	MEAS	QUAD	LOCATION	MEAS	QUAD	LOCATION
13NW+6NE	+10	+10	13NW+6NE	+10	+10	13NW+6NE
13NW+5NE	+4	+4	13NW+5NE	+4	+4	13NW+5NE
13NW+4NE	+7	+7	13NW+4NE	+7	+7	13NW+4NE
13NW+3NE	+4	+4	13NW+3NE	+4	+4	13NW+3NE
13NW+2NE	+8	+8	13NW+2NE	+8	+8	13NW+2NE
13NW+1NE	+4	+4	13NW+1NE	+4	+4	13NW+1NE
13NW	+3	+3	13NW	+3	+3	13NW
13NW+0NE	+6	+6	13NW+0NE	+6	+6	13NW+0NE
13NW-1NE	+8	+8	13NW-1NE	+8	+8	13NW-1NE
13NW-2NE	+4	+4	13NW-2NE	+4	+4	13NW-2NE
13NW-3NE	+7	+7	13NW-3NE	+7	+7	13NW-3NE
13NW-4NE	+4	+4	13NW-4NE	+4	+4	13NW-4NE
13NW-5NE	+8	+8	13NW-5NE	+8	+8	13NW-5NE
13NW-6NE	+4	+4	13NW-6NE	+4	+4	13NW-6NE
13NW-7NE	+7	+7	13NW-7NE	+7	+7	13NW-7NE
13NW-8NE	+4	+4	13NW-8NE	+4	+4	13NW-8NE
13NW-9NE	+8	+8	13NW-9NE	+8	+8	13NW-9NE
13NW-10NE	+4	+4	13NW-10NE	+4	+4	13NW-10NE
13NW-11NE	+7	+7	13NW-11NE	+7	+7	13NW-11NE
13NW-12NE	+4	+4	13NW-12NE	+4	+4	13NW-12NE
13NW-13NE	+8	+8	13NW-13NE	+8	+8	13NW-13NE
13NW-14NE	+4	+4	13NW-14NE	+4	+4	13NW-14NE
13NW-15NE	+7	+7	13NW-15NE	+7	+7	13NW-15NE
13NW-16NE	+4	+4	13NW-16NE	+4	+4	13NW-16NE
13NW-17NE	+8	+8	13NW-17NE	+8	+8	13NW-17NE
13NW-18NE	+4	+4	13NW-18NE	+4	+4	13NW-18NE
13NW-19NE	+7	+7	13NW-19NE	+7	+7	13NW-19NE
13NW-20NE	+4	+4	13NW-20NE	+4	+4	13NW-20NE
13NW-21NE	+8	+8	13NW-21NE	+8	+8	13NW-21NE
13NW-22NE	+4	+4	13NW-22NE	+4	+4	13NW-22NE
13NW-23NE	+7	+7	13NW-23NE	+7	+7	13NW-23NE
13NW-24NE	+4	+4	13NW-24NE	+4	+4	13NW-24NE
13NW-25NE	+8	+8	13NW-25NE	+8	+8	13NW-25NE
13NW-26NE	+4	+4	13NW-26NE	+4	+4	13NW-26NE
13NW-27NE	+7	+7	13NW-27NE	+7	+7	13NW-27NE
13NW-28NE	+4	+4	13NW-28NE	+4	+4	13NW-28NE
13NW-29NE	+8	+8	13NW-29NE	+8	+8	13NW-29NE
13NW-30NE	+4	+4	13NW-30NE	+4	+4	13NW-30NE
13NW-31NE	+7	+7	13NW-31NE	+7	+7	13NW-31NE
13NW-32NE	+4	+4	13NW-32NE	+4	+4	13NW-32NE
13NW-33NE	+8	+8	13NW-33NE	+8	+8	13NW-33NE
13NW-34NE	+4	+4	13NW-34NE	+4	+4	13NW-34NE
13NW-35NE	+7	+7	13NW-35NE	+7	+7	13NW-35NE
13NW-36NE	+4	+4	13NW-36NE	+4	+4	13NW-36NE
13NW-37NE	+8	+8	13NW-37NE	+8	+8	13NW-37NE
13NW-38NE	+4	+4	13NW-38NE	+4	+4	13NW-38NE
13NW-39NE	+7	+7	13NW-39NE	+7	+7	13NW-39NE
13NW-40NE	+4	+4	13NW-40NE	+4	+4	13NW-40NE
13NW-41NE	+8	+8	13NW-41NE	+8	+8	13NW-41NE
13NW-42NE	+4	+4	13NW-42NE	+4	+4	13NW-42NE
13NW-43NE	+7	+7	13NW-43NE	+7	+7	13NW-43NE
13NW-44NE	+4	+4	13NW-44NE	+4	+4	13NW-44NE
13NW-45NE	+8	+8	13NW-45NE	+8	+8	13NW-45NE
13NW-46NE	+4	+4	13NW-46NE	+4	+4	13NW-46NE
13NW-47NE	+7	+7	13NW-47NE	+7	+7	13NW-47NE
13NW-48NE	+4	+4	13NW-48NE	+4	+4	13NW-48NE
13NW-49NE	+8	+8	13NW-49NE	+8	+8	13NW-49NE
13NW-50NE	+4	+4	13NW-50NE	+4	+4	13NW-50NE
13NW-51NE	+7	+7	13NW-51NE	+7	+7	13NW-51NE
13NW-52NE	+4	+4	13NW-52NE	+4	+4	13NW-52NE
13NW-53NE	+8	+8	13NW-53NE	+8	+8	13NW-53NE
13NW-54NE	+4	+4	13NW-54NE	+4	+4	13NW-54NE
13NW-55NE	+7	+7	13NW-55NE	+7	+7	13NW-55NE
13NW-56NE	+4	+4	13NW-56NE	+4	+4	13NW-56NE
13NW-57NE	+8	+8	13NW-57NE	+8	+8	13NW-57NE
13NW-58NE	+4	+4	13NW-58NE	+4	+4	13NW-58NE
13NW-59NE	+7	+7	13NW-59NE	+7	+7	13NW-59NE
13NW-60NE	+4	+4	13NW-60NE	+4	+4	13NW-60NE

Property W. Washington  
 Job No. LINE 13  
 Date \_\_\_\_\_  
 Operator \_\_\_\_\_  
 Face \_\_\_\_\_

LINE 17NW - SEATTLE  
 EM FIELD NOTES Page

Property \_\_\_\_\_ Date \_\_\_\_\_  
 Job No. \_\_\_\_\_ Operator \_\_\_\_\_  
 Trans. \_\_\_\_\_ Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM IS)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REMARK & SLOPE
17NW+6NE	+3	-9	-20		
17NW+5.5NE	+3	-11	-22	0	
17NW+5NE	+3	-11	-20	+7	
17NW+4.5NE	+2	-9	-15	+10	
17NW+4NE	+2	-6	-10	+9	
17NW+3.5NE	+3	-4	-6	+8	
17NW+3NE	+3	-2	-2	+9	
17NW+2.5NE	+2	0	+3	+12	
17NW+2NE	+1	+3	+10	+11	
17NW+1.5NE	0	+7	+14	+2	
17NW+1NE	+4	+7	+12	-9	
17NW+0.5NE	+8	+5	+5	-12	
Base L 17NW	+4	0	0	-5	
17NW+0.5SW	+3	0	0	+11	
17NW+1SW	+4	0	+11	+39	
17NW+2SW	+2	+11	+39	+43	
17NW+3SW	+13	+28	+54	+14	
17NW+4SW	+12	+26	+53	+2	
17NW+5SW	+14	+27	+56	+2	
17NW+6SW	+22	+27	+55	-15	
17NW+7SW	+14	+22	+41	-13	
17NW+8SW	+20	+14	+24	-34	
17NW+9SW	+8	+7	+7	-40	
17NW+10SW	+2	-2	-1		

LINE 20NW - SEATTLE  
 EM FIELD NOTES

Property \_\_\_\_\_ Date \_\_\_\_\_  
 Job No. \_\_\_\_\_ Operator \_\_\_\_\_  
 Trans. \_\_\_\_\_ Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM IS)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REMARK & SLOPE
20NW+6NE	+6	+2	+5		
20NW+5.5NE	+3	+3	+6	+2	
20NW+5NE	+4	+3	+7	+2	
20NW+4.5NE	+4	+4	+8	+2	
20NW+4NE	+4	+4	+9	+1	
20NW+3.5NE	+2	+5	+9	-1	
20NW+3NE	+4	+4	+8	-1	
20NW+2.5NE	+2	+4	+8	-2	
20NW+2NE	+2	+4	+6	-5	
20NW+1.5NE	+2	+2	+3	-4	
20NW+1NE	+1	+1	+2	-2	
20NW+0.5NE	+9	+1	+1	-4	
20NW	+4	0	-2	-7	
20NW+0.5SW	+6	-2	-4	-8	
20NW+1SW	+9	-4	-10	-7	
20NW+2SW	+8	-6	-13	-12	
20NW+3SW	+8	-7	-22	-13	
20NW+4SW	+7	-15	-26	+3	
20NW+5SW	+6	-11	-19	+3	
20NW+6SW	+5	-8	-23	-9	
20NW+7SW	+20	-15	-28	-12	
20NW+8SW	+16	-13	-35	-21	
20NW+9SW	+18	-22	-44	-22	
20NW+10SW	+16	-27	-57		
20NW+11SW	+10	-30			



11 NW (CONT.) - MAINE  
EM FIELD NOTES

Property \_\_\_\_\_ Date \_\_\_\_\_  
Job No. \_\_\_\_\_ Operator \_\_\_\_\_  
Trans. \_\_\_\_\_ Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM 10)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	R & S
6 NE	-8	-40	-82	-1	
6.5 NE	-4	-38	-78	-10	
7 NE	-6	-34	-72		
LINE 1 NW - MAINE					
8 NE	-26	-60	-120		
7.5 NE	-1	-60	-120	-10	
7 NE	-10	-60	-130	-10	
6.5 NE	+10	-70	-130	+2	
6 NE	-20	-60	-128	+2	
5.5 NE	-8	-68	-128	-2	
5 NE	0	-60	-130	-22	
4.5 NE	-1	-70	-150	-20	
4 NE	-6	-80	-150	-5	
3.5 NE	-11	-70	-155	-25	
3 NE	-18	-85	-175	-33	
2.5 NE	-6	-90	-188	-43	
2 NE	-18	-98	-218	-32	
1.5 NE	-10	-120	-220	+70	
1 NE	+8	-100	-148	+127	
0.5 NE	-18	-48	-93	+70	
BL	-10	-85	-78	+45	
0.5 SW	+8	-33	-48		
1 SW	-3	-15			
Rock FACE					

LINE EM FIELD NOTES  
11 NW

Property \_\_\_\_\_ Date \_\_\_\_\_  
Job No. \_\_\_\_\_ Operator \_\_\_\_\_  
Trans. \_\_\_\_\_ MAINE Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM 10)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REM & S
6.5 SW	-6	+3			
6 SW	-8	-3	-6		W
5.5 SW	-10	-7	-10	+14	W
5 SW	-11	-13	-20	+17	NW
4.5 SW	-14	-14	-27	+17	N
4 SW	-17	-23	-37	+36	N
3.5 SW	-24	-40	-63	+53	N
3 SW	-25	-50	-90	+39	N
2.5 SW	-23	-52	-102	+22	N
2 SW	-23	-60	-112	+23	N
1.5 SW	-23	-65	-125	+13	N
1 SW	-20	-60	-125	-15	N
0.5 SW	-17	-50	-110	+27	N
BL	-15	-48	-98	+24	N
0.5 NE	-20	-38	-86	+30	
1 NE	-24	-30	-68	+26	
1.5 NE	-12	-30	-60	+12	
2 NE	-8	-26	-56	+6	
2.5 NE	-6	-28	-54	+9	
3 NE	-8	-37	-65	+36	
3.5 NE	-10	-53	-90	+32	
4 NE	-9	-44	-97	+11	Break
4.5 NE	-7	-35	-79	-25	
5 NE	-3	-37	-72	0	
5.5 NE	-4	-42	-79	+10	

EM FIELD NOTES  
SEATTLE

Property \_\_\_\_\_ Date \_\_\_\_\_  
Job No. \_\_\_\_\_ Operator \_\_\_\_\_  
Trans. \_\_\_\_\_ LINE 3 NW Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM 10)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REM & S
8 NE	+9	+65	128		
7.5	+8	+63	133	+5	
7	+11	+70	133	-11	
6.5	+8	+63	122	-16	
6	+5	+59	117	-5	
5.5	+5	+58	117	+1	
5	+10	+59	119	+2	
4.5	+10	+59	119	+10	
4	+12	+60	128	+19	
3.5	+9	+68	138	+14	
3	+8	+70	142	+8	
2.5	+7	+72	144	-1	
2	+8	+74	141	-109	
1.5	+6	+67	37	+29	
1	0	+30	+170	+363	
0.5	0	+200	400	+190	
BL	0	+200	360	-100	
0.5 SW	+8	+160	300	-80	
1 SW	+1	+140	250		
1.5 SW	-4	+140			
2 SW					
2.5 SW					
3 SW					
3.5 SW					
4 SW					



## EM FIELD NOTES

Property SEATTLE Date \_\_\_\_\_  
 Job No. LINE Operator \_\_\_\_\_  
 Trans. \_\_\_\_\_ Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM IS)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMA G SL
6 NE	-5	+47			
5.5 NE	-4	+42	89		
5 NE	-2	+50	92	+33	
4.5 NE	+8	+72	122	+60	
4 NE	+10	+72	152	+46	
3.5 NE	+13	+84	168	+10	
3 NE	+13	+76	162	-32	
2.5 NE	+1	+60	136	-40	
2 NE	+4	+62	122	-14	
1.5 NE	+6	+60	122	+8	
1 NE	+8	+70	130	+30	
0.5 NE	+22	+84	154	+38	
BL	+25	+84	168	0	
0.5 SW	+11	+70	154	-36	
1 SW	+12	+62	132	-39	
1.5 SW	+13	+53	115	-34	
2 SW	+20	+45	98		

SEATTLE - LINE 11 NW Co  
EM FIELD NOTES

Property \_\_\_\_\_ Date \_\_\_\_\_  
 Job No. \_\_\_\_\_ Operator \_\_\_\_\_  
 Trans. \_\_\_\_\_ Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM IS)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMA G SL
6 NE	+4	+45	+92	+2	
6.5 NE	-3	+42	+87	+10	
7 NE	+2	+40	+82		
LINE 1 NW			SEATTLE		
8 NE	-13	+63	+135		
7.5 NE	+4	+72	+148	+17	
7 NE	+7	+76	+152	0	
6.5 NE	+4	+76	+148	-4	
6 NE	+6	+72	+148	-12	
5.5 NE	+4	+76	+136	-31	
5 NE	+5	+60	+117	+1	
4.5 NE	-4	+57	+137	+39	
4 NE	+17	+80	+156	+17	
3.5 NE	+8	+76	+154	+24	
3 NE	+4	+78	+180	+62	
2.5 NE	-13	+102	+216	+64	
2 NE	+1	+114	+244	+4	
1.5 NE	+12	+130	+220	-92	
1 NE	+16	+90	+152	-118	
0.5 NE	+6	+62	+102	-77	
BL	+2	+90	+75	-24	
0.5 SW	+11	+35	+78		
1 SW	+3	+43			
ROCK FACE					

## EM FIELD NOTES

Property LINE 11 NW Date \_\_\_\_\_  
 Job No. \_\_\_\_\_ Operator \_\_\_\_\_  
 Trans. SEATTLE Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM IS)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMA G SL
6.5 SW	+22	+14	+31		
6 SW	+21	+12	+32	-4	
5.5 SW	+21	+15	+35	-13	
5 SW	+21	+20	+45	-35	
4.5 SW	+20	+25	+70	-48	
4 SW	+16	+25	+93	-38	
3.5 SW	+23	+48	+108	-30	
3 SW	+17	+60	+123	-23	
2.5 SW	+16	+63	+131	-15	
2 SW	+17	+68	+138	-7	
1.5 SW	+20	+70	+138	+18	
1 SW	-2	+68	+120	+39	
0.5 SW	+5	+52	+99	+33	
BL	+12	+42	+87	+22	
0.5 NE	+12	+40	+77	+16	
1 NE	+11	+37	+71	+18	
1.5 NE	+10	+34	+64	+9	
2 NE	+9	+30	+62	-8	
2.5 NE	+5	+32	+72	-36	
3 NE	+8	+40	+98	-31	
4 NE	+6	+45	+105	+1	
4.5 NE	+4	+42	+97	+19	
5 NE	+4	+42	+84	+8	
5.5 NE	+2	+47	+89	-8	

## EM FIELD NOTES

 Property SEATTLE Date \_\_\_\_\_  
 Job No. LINER Operator \_\_\_\_\_  
 Trans. \_\_\_\_\_ Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM IC)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA
1 SW	-2	+72	+144	
0.5 SW	+12	+72	+152	-78
Bc	+2	+80	+162	-5
0.5 NE	-2	+82	+157	+1
1 NE	-6	+75	+141	+11
1.5 NE	+14	+86	+146	+47
2 NE	-70	+60	+114	+37
2.5 NE	-7	+54	+107	-3
3 NE	-1	+53	+117	-10
3.5 NE	+1	+64	+117	+21
4 NE	-7	+53	+96	+34
4.5 NE	-5	+43	+87	+15
5 NE	-2	+42	+81	-2
6.5 NE	0	+41	+85	
6 NE	+1	+44		

## EM FIELD NOTES

 Property MAINE Date \_\_\_\_\_  
 Job No. LINER Operator \_\_\_\_\_  
 Trans. \_\_\_\_\_ Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM IC)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA
1 SW	-12	-55	+30	
0.5 SW	-10	-70	+10	
Bc	-12	-85	-15	
0.5 NE	-11	-80	-10	
1 NE	-2	-70	-15	
1.5 NE	-12	-70	-20	
2 NE	-3	-55	-5	
2.5 NE	-5	-50	+18	
3 NE	-2	-50	+5	
3.5 NE	-3	-68	-21	
4 NE	-2	-55	-17	
4.5 NE	+1	-47	0	
5 NE	+2	-38	+7	
5.5 NE	-1	-47		
6 NE	-1	-45		

## EM FIELD NOTES

 Property MAINE Date \_\_\_\_\_  
 Job No. LINER Operator \_\_\_\_\_  
 Trans. \_\_\_\_\_ Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM IC)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA
4 NE	+4	-43	-83	
5.5 NE	+1	-40	-87	-24
5 NE	-4	-47	-107	-40
6.5 NE	-8	-60	-123	-30
4 NE	-3	-63	-137	-21
3.5 NE	-10	-74	-144	+14
3 NE	-10	-70	-123	+40
2.5 NE	-2	-53	-98	+25
2 NE	-5	-45	-98	-15
1.5 NE	-4	-53	-113	-32
1 NE	-17	-60	-130	-22
0.5 NE	-20	-70	-135	15
Bc	-22	-65	-125	+15
0.5 SW	-15	-60	-120	+27
1 SW	-14	-60	-98	+50
1.5 SW	-10	-38	-70	
2 SW	-10	-32		

EM FIELD NOTES

Property Carrolline Line  
 Job No. \_\_\_\_\_  
 Trans. SEATTLE

Date \_\_\_\_\_  
 Operator \_\_\_\_\_  
 Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM 10)	MEAS UP OR DOWN	SURFACE PLAINS	FILTERED DATA	REMARKS
2.50SW	+12	+146	96		
2SW	+14	+50	108	-22	
1.5SW	+9	+58	118	-20	
1SW	+15	+60	128	-10	
0.5SW	+4	+68	128	+9	
BL	+14	+60	119	+13	
0.5NE	+9	+59	115	+12	
1NE	+14	+54	107	+16	
1.5NE	+14	+51	99	+15	
2NE	+12	+48	92	0	
2.5NE	+9	+44	99	-23	
3NE	+11	+55	115	-22	
3.5NE	+13	+60	121	-4	
4NE	+14	+61	119	+6	
4.5NE	+9	+58	115	0	
5NE	+7	+57	119	-12	
5.5NE	+4	+62	127		
6NE	+10	+65			

EM FIELD NOTES Page

Property Carrolline Line Date 1/1/54  
 Job No. \_\_\_\_\_ Operator W  
 Trans. \_\_\_\_\_ Face \_\_\_\_\_

STATION (STATION)	QUAD	MEAS	SURFACE PLAINS	FILTERED DATA	REMARKS
2SW	-34	-42			
1.5SW	-10	-52			
1SW	-4	-50			
0.5SW	-8	-36			

EM FIELD NOTES Page

Property \_\_\_\_\_ Date \_\_\_\_\_  
 Job No. \_\_\_\_\_ Operator \_\_\_\_\_  
 Trans. SEATTLE Face \_\_\_\_\_

LOCATION (STATION)	QUAD (EM 10)	MEAS UP OR DOWN	SURFACE PLAINS	FILTERED DATA	REMARKS
0.5W	+24	+74	+139		
1.5	+3	+74	+152	-29	
1	+3	+78	+164		
0.5	+10	+90			
BL					
0.5NE					
1NE					
1.5NE					
2NE					
2.5NE					
3NE					
3.5NE					
4NE					
4.5NE					
5NE					

7013



FIG. NO 1

MADISON OILS LTD  
 CAMBORNE PROPERTY  
 REVELSTOKE MINING DIVISION  
 SCALE: 1" = 50', 1cm = 6m.

ELECTROMAGNETIC SURVEY

LEGEND

ADIT - CAVED	PROFILES IN PHASE
UNDERGROUND WORKINGS	QUADRATURE
TRAIL	VERTICAL SCALE: 1cm = 10m
SURVEY STATION	FILTERED DATA
SHAFT	CONTOUR INTERVAL: +10, +20, +30
VEIN TRACE - UNDERGROUND	CONDUCTOR TRACE
CLAIM BOUNDARY - APPROXIMATE	INDICATED
	ASSUMED
	IN PHASE READING
	FILTERED VALUE
	LINE
	STATION
	QUADRATURE READING

ALLEN RESOURCE CONSULTANTS LTD.

*Guy H. Allen, P. Eng.*  
*Oct 20 1978*

PROFESSIONAL  
 ENGINEER  
 OF  
 BRITISH COLUMBIA  
 GUY H. ALLEN

7013

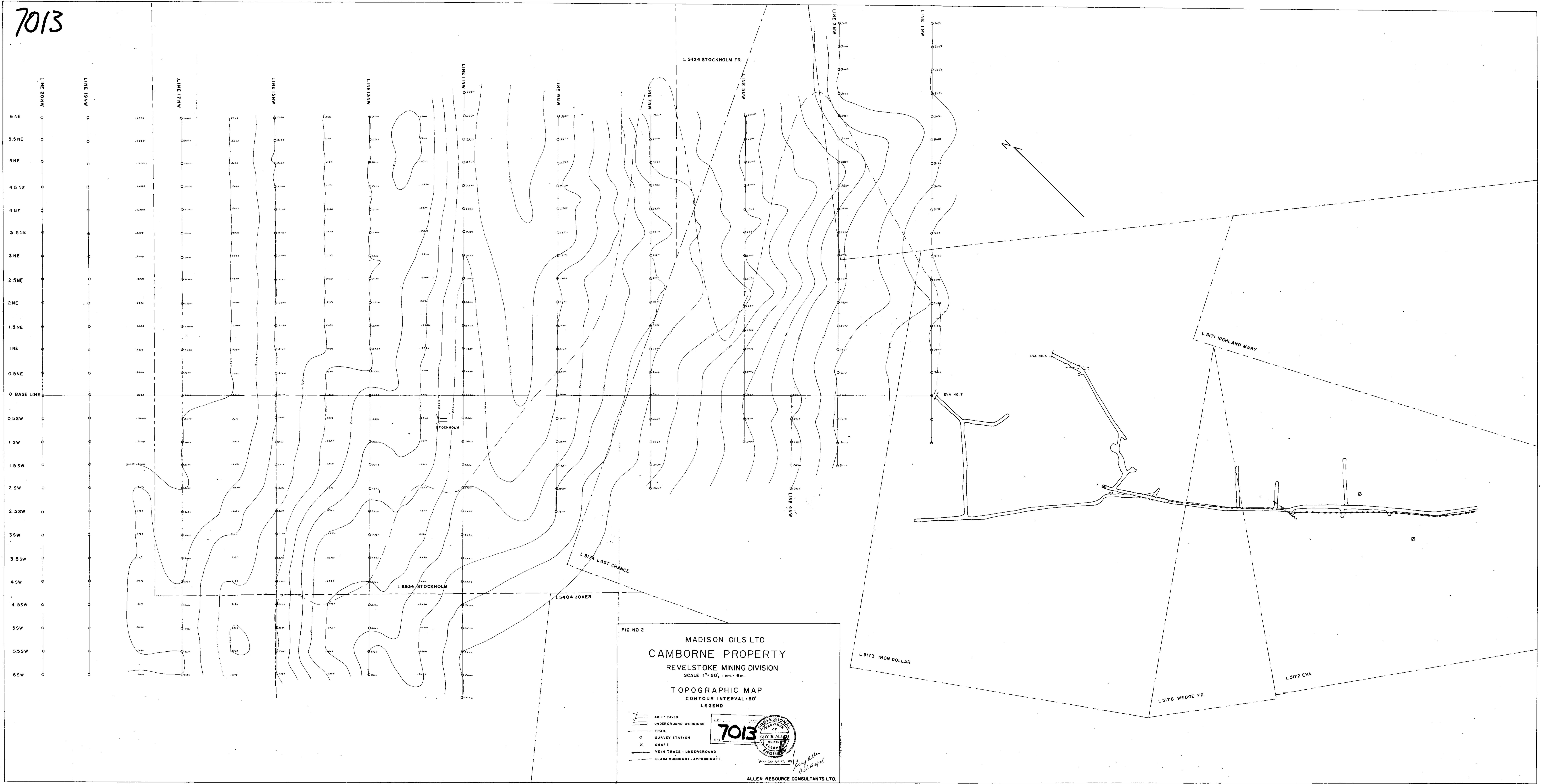


FIG. NO. 2  
 MADISON OILS LTD.  
 CAMBORNE PROPERTY  
 REVELSTOKE MINING DIVISION  
 SCALE: 1" = 50', 1 cm. = 6m.  
 TOPOGRAPHIC MAP  
 CONTOUR INTERVAL = 50'  
 LEGEND

ADIT - CAVED  
 UNDERGROUND WORKINGS  
 TRAIL  
 SURVEY STATION  
 SHAFT  
 VEIN TRACE - UNDERGROUND  
 CLAIM BOUNDARY - APPROXIMATE

7013  
 GUY B. ALLEN  
 REGISTERED PROFESSIONAL ENGINEER  
 BRITISH COLUMBIA  
 1972-1973

ALLEN RESOURCE CONSULTANTS LTD.

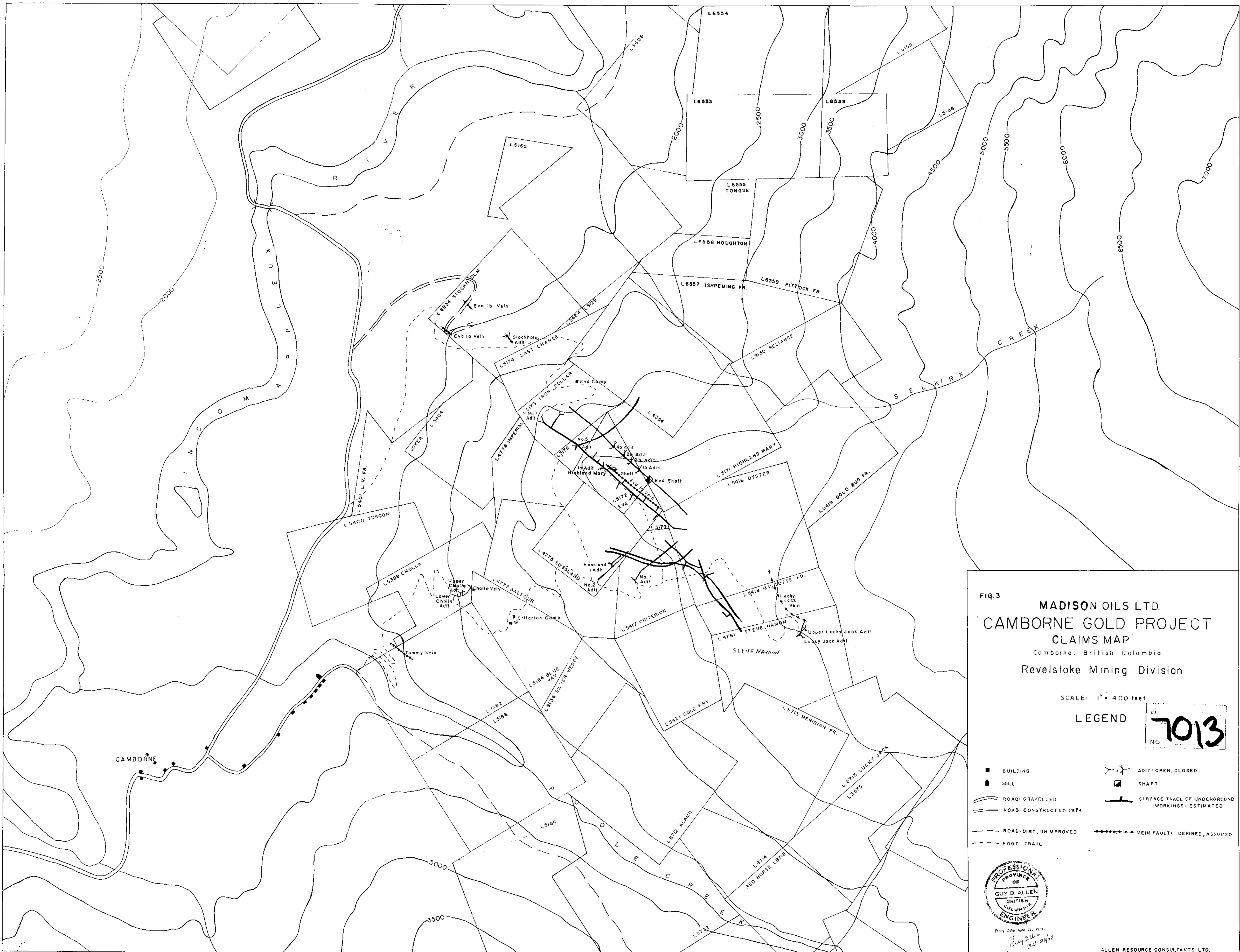


FIG. 3  
**MADISON OILS LTD.**  
**CAMBORNE GOLD PROJECT**  
**CLAIMS MAP**  
 Camborne, British Columbia  
 Revelstoke Mining Division

SCALE: 1" = 400 feet

LEGEND

MET.  
 NO. **7013**

- BUILDING
- ⊠ MILL
- ROAD: GRAVELLED
- ROAD: CONSTRUCTED 1974
- ROAD: DIRT, UNIMPROVED
- - - FOOT TRAIL
- ⊠ ADIT: OPEN, CLOSED
- ⊠ SHAFT
- SURFACE TRACE OF UNDERGROUND WORKINGS: ESTIMATED
- VEIN FAULT: DEFINED, ASSUMED

