



PETER E. WALCOTT & ASSOC. LTD.

A REPORT

ON

MAGNETIC AND INDUCED POLARIZATION SURVEYING

Dawson Area, Yukon Territory  
64° 01'N, 139° 24'W  
N.T.S. 116 B/3

Claims surveyed: CRAZY 3,4,7,8,11,12,17,22,27  
LADY 1,5,6,9,10,13,14,17,18,20,21,22

Survey Dates: June 2nd - December 16th, 1986

FOR

Operator: EASTERN MINES LTD.  
Vancouver, B.C.

Owner: W. T. Dawson

by

PETER E. WALCOTT & ASSOCIATES LTD.  
Vancouver, B.C.

FEBRUARY 1987

**09 17 49**

GEOPHYSICAL SERVICES

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 \$ 12,581.60 .

*DA Emond*

*for*

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

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INTRODUCTION.

Between June 2nd and December 16th, 1986, Mark Management Ltd. carried out magnetic surveying over part of a property, located in the Dawson area of the Yukon Territory, for Eastern Mines Ltd.

Measurements of the total intensity of the earth's magnetic field were taken at 25 metre intervals along nineteen N67° E lines using a Geometrics G-816 proton magnetometer.

In addition on July 30th and 31st Peter E. Walcott & Associates Limited conducted a one line induced polarization traverse across the centre of the grid, i.e on L-0, using the dipole-dipole technique.

Measurements (first to fourth separation) of apparent chargeability - the I.P. response parameter - and resistivity were made with a 25 metre dipole.

The magnetic results are presented in contour form on a plan map of the line grid - Map W-393-11, that accompanies this report, whereas the I.P. data is presented in pseudo-section form on an individual line profile bound in this report.

PROPERTY, LOCATION & ACCESS

The property is located in the Dawson Mining District of the Yukon Territory, and consists of the following claims:

<u>CLAIM</u>	<u>GRANT NO.</u>	<u>ANNIVERSARY</u>
CRAZY 1-27	YA79611-637	February 17th
LADY 1-22	YA88034-055	June 11th

These are situated around and to the west of Bonanza creek about two kilometres south of the town of Dawson.

Access is obtained by means of four wheel drive vehicle off Hwy #2.

PREVIOUS WORK.

Work was first believed to have been carried out on the property during the Klondike gold rush of 1897-98, the colourful history of which has been documented by many.

Recently Eastern Mines Ltd. conducted an airborne electromagnetic and magnetic survey, the results of which are documented in reports held by the company.

PURPOSE.

The purpose of the magnetic survey was to see if any magnetic signature was associated with the possible fault contact between the carbonaceous Nasina rocks to the north and the muscovitic Klondike schists to the south.

The I.P. traverse was carried out to see if any pyritic mineralization - believed to be associated with gold emplacement - occurred in the above postulated structure.

GEOLOGY.

General. The Klondike district was first mapped by Bostock (1942), and more recently by Metcalfe (1981) and Debicki (1985 and 1984). Bedrock in the Klondike area is generally grouped into five major units which are, from oldest to youngest, the Nasina Series, the Klondike Series, the Moosehide Assemblage, early Tertiary volcanics/volcanoclastics and Tertiary intrusives.

Rocks of the Nasina Series consist of graphitic schists, graphitic quartzites and siliceous marbles with minor chlorite schists and muscovite schists. These rocks have been metamorphosed to grades ranging from upper greenschist to middle amphibolite facies, and may represent metamorphosed outer shelf sediments of the ancient North American continent.

Most rocks exposed in the Klondike district predominantly belong to the Klondike Series. These are quartzo-feldspathic schists containing varying amounts of chlorite, muscovite, and sericite. They have undergone upper greenschist to middle amphibolite grade metamorphism and at least four separate deformational events. This series appears to represent metamorphosed interbedded sediments and rhyolitic to andesitic tuffs. The contact between schists of the Klondike series and graphitic schists of the Nasina series is sheared, and suggests that the Klondike series represents an allocthonous assemblage which has been thrust over Nasina shelf strata. To the west the Klondike schists are in contact with a blocky weathering, granitic textured, biotite-quartz-feldspar rock which does not appear as highly metamorphosed as the Klondike schists. Thin section studies of these rocks indicate that they were originally medium to coarse grained plutonic rocks of granodioritic to quartz diorite composition, and may represent the magmatic source for those tuffs now comprising the Klondike Series.

Structurally overlying rocks of the Klondike and Nasina series are occurrences of greenstone and altered ultramafics belonging to the Moosehide Assemblage. Included in the ultramafic unit are a great variety of rock types including massive, partially serpentized peridotite (harzburgite), massive to sheared serpentinite, silicarbonate altered serpentinite, and talc-carbonate schist. Massive greenstone and strongly altered,

fine to medium grained diabase are exposed in several steep bluffs in the vicinity of Dawson. These rocks are unfoliated and form part of a slab of greenstone and serpentinite that underlies the southwestern slope of the Midnight Dome east of Dawson. Occurrences of greenstone and ultramafic rocks are commonly found along the sheared contact between the Klondike and Nasina series rocks. They are thought to represent exotic slices of uncertain origin structurally emplaced during the thrust faulting.

Gently folded andesitic volcanics and clastic sediments are present in the Last Chance Creek area. These rocks were considered to be early Tertiary in age; however, recent work on similar rocks in the Indian River area suggests that these rocks are middle Cretaceous in age. Intrusive rocks are present as numerous dykes and sills ranging in nature from diabase to rhyolite. Larger Tertiary intrusive bodies are rare in the Klondike except for a rhyolite porphyry stock that outcrops along Hunker Creek. Isotopic dating (DeBicki) indicates that the porphyry is approximately 50 to 60 million years old.

Crazy Lady Grid. The "Crazy Lady" grid overlies northerly trending, west dipping muscovite schists of the Klondike Series to the south, and westerly trending, north dipping graphitic schists of the Nasina Series to the north. The contact between these two is considered to be fault related as seen along Hunker creek. Diamond drilling on the grid revealed two varieties of dykes in its intersections; namely a quartz-feldspar porphyry dyke which has a relatively soft matrix, and which crosscuts an olivine diabase one, which is magnetite bearing. Both appear to be northerly trending with near vertical dips, and most likely intruded along the same structure.

SURVEY SPECIFICATIONS.

The magnetic survey was carried out using a G-816 proton precession magnetometer manufactured by EG & G Geometrics of Sunnyvale, California. This instrument measures variations in the earth's magnetic field to an accuracy of plus or minus 1 gamma. Corrections for diurnal variations were made by comparison with readings obtained on a base magnetometer manufactured by EDA Instruments of Metropolitan Toronto, Ontario.

The induced polarization (I.P.) survey was carried out using a pulse type system, the principal components of which are manufactured by Hunttec Limited and Phoenix Geophysics Limited of Metropolitan Toronto, Ontario.

The system consists basically of three units, a receiver (Hunttec), a transmitter and a motor generator (Phoenix). The transmitter, which provides a maximum of 2.0 kw d.c. to the ground, obtains its power from a 2.0 kw 400 c.p.s. three phase alternator driven by a gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes  $C_1$  and  $C_2$ , the primary voltage (V) appearing between the two potential electrodes,  $P_1$  and  $P_2$ , during the "current-on" part of the cycle, and the apparent chargeability (M.) presented as a direct readout using a 200 millisecond delay and a 1000 millisecond sample window by the receiver, a digital instrument controlled by a microprocessor.

The apparent resistivity ( $P_a$ ) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried using the "dipole-dipole" electrode array. This electrode configuration and method of presenting the results are illustrated on the accompanying

pseudo-sections. Depth penetration with this array is increased or decreased by increasing or decreasing "a" and/or "n".

In practise, the equipment is set up at a particular station of the line to be surveyed; three transmitting dipoles are laid out to the rear, measurements are made for all possible combinations of transmitting and receiving dipoles up to the fourth separation, i.e. "n" = 4; the equipment is then moved 3"a" metres along the line to the next set-up.

A 25 metre dipole was employed on this survey, and first to fourth separation readings were obtained at 25 metre intervals along the line.

In all some 19.0 kilometres of magnetic surveying and some 1.1 kilometres of induced polarization surveying were carried out using the above methods.

DISCUSSION OF RESULTS.

Magnetic traverses across an outcropping diabase dyke in the Bonanza-Eldorado area have shown the latter to exhibit a negative magnetic anomaly i.e. its remanent magnetization acquired during cooling through the Curie point is south seeking down - dip needle - and has a greater intensity than the induced magnetization which is north seeking down, thus the resultant is south seeking down with a resulting negative magnetic anomaly.

Two narrow low intensity northerly trending magnetic lows that could be representative of such dykes are discernible on the contour magnetic data - Map W-393-11 - apparently offset by a possible eastwest trending fault.

Further geological study might make some case for extending these features through the isolated lows to the south, as the dykes presumably vary in thickness, and are still narrow at best.

The I.P. traverse showed strong anomalous chargeability conditions with associated resistivity lows - typical of graphitic material response - to exist over most of the line.

However a strong anomaly apparently representative of a westerly dipping causative source with an associated resistivity low occurred around 1+00E over the apparent dyke and possible fault zone.

A similar broad anomaly was noticed around 3+00W, the location of the other interpreted dyke, although the lower resistivity readings here are somewhat further to the east.

A third strong resistivity low can be seen on the larger spacings centred around 3+50E, the location of the projected trace of the postulated cross fault offsetting the dykes.

SUMMARY AND CONCLUSIONS.

Between June 2nd and December 16th, 1986, Mark Management Ltd. and Peter E. Walcott & Associates Limited undertook limited magnetic and induced polarization surveying over part of a property in the Dawson area, Yukon Territory, optioned by Eastern Mines Ltd.

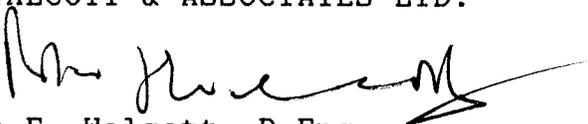
The magnetic survey suggested the occurrences of two narrow northerly trending diabase dykes offset by interpreted eastwest faulting on the grid, that could have intruded along northerly trending fault structures.

The I.P. traverse gave results suggestive of underlying graphitic material, although it is not inconceivable that part of the response around the locations of the magnetic lows could be attributable to pyritic mineralization stemming from hydrothermal activity.

As a result the writer recommends that the data be further studied in conjunction with the geological data and the drilling results before proceeding with work.

Respectfully submitted,

PETER E. WALCOTT & ASSOCIATES LTD.

  
Peter E. Walcott, P.Eng.  
Geophysicist

Vancouver, B.C.

February 1987

PETER E. WALCOTT & ASSOC. LTD.

A P P E N D I X

GEOPHYSICAL SERVICES

EAN/DAW 1986  
2 JUNE-16 DECEMBER 1986  
GENERAL COSTS

<u>FOOD &amp; ACCOMMODATION</u> , 51 MAN DAYS @ \$22.41		\$ 1,143.11
<u>SUPPLIES</u>		990.30
<u>FUEL</u>		731.74
<u>TELEPHONE SERVICES</u>		223.11
<u>FEES</u>		246.00
<u>SHIPPING</u>		596.64
<u>RENTALS</u>		
AIRWAYS 4WD PU, 15 DAYS @ \$43	\$ 645.00	
AIRWAYS 4WD BLAZER, 15 DAYS @ \$43	645.00	
EZEKIEL FIELD EQUIPMENT, 51 MAN DAYS @ \$6	306.00	1,596.00
<u>DRAFTING</u>		170.55
<u>CONSULTANT FEES</u>		
ADDER EXPLORATION & DEVELOPMENT LTD.	\$ 56.25	
ARCHEAN ENGINEERING LTD.	875.00	\$ 931.25
<u>TOTAL GENERAL COSTS</u>		\$ 6,628.70

LINE-CUTTING, FLAGGING, SURVEYING COST

<u>SALARIES &amp; WAGES</u>		
P. GRUNENBERG, 3 DAYS @ \$163.34	\$ 490.02	
S. TOMLINSON, 2 DAYS @ \$120.20	240.40	
J. BOSHER, 3 DAYS @ \$115.39	346.17	
E. TIMOSHENKO, 2 DAYS @ \$92.31	184.62	\$ 1,261.21
<u>BENEFITS @ 20%</u>		252.24
<u>GENERAL COSTS APPORTIONED</u>		
10/51 X \$6,628.70		1,299.74
<u>TOTAL LINE-CUTTING, FLAGGING, SURVEYING COST</u>		\$ 2,813.19

GEOCHEMICAL SURVEY COST

<u>SALARIES &amp; WAGES</u>		
S. TOMLINSON, 3 DAYS @ \$120.20	\$ 360.60	
J. BOSHER, 1 DAY	115.39	
E. TIMOSHINKO, 3 DAYS @ \$92.31	276.93	\$ 752.92
<u>BENEFITS @ 20%</u>		150.58

GEOCHEMICAL SURVEY COST CONT'D.

<u>BALANCE FORWARDED</u>		\$ 150.58
<u>ASSAYS &amp; ANALYSES - CHEMEX LABS</u>		
190 SOILS FOR AU & 30-ELEMENT ICP @ \$15.25		2,897.50
<u>GENERAL COSTS APPORTIONED</u>		
7/51 X \$6,628.70		<u>909.82</u>
<u>TOTAL GEOCHEMICAL SURVEY COST</u>		<u>\$ 4,710.82</u> =====

GEOPHYSICAL SURVEYS COST

<u>SALARIES &amp; WAGES</u>		
P. GRUNENBERG, 5 DAYS @ \$163.34	\$ 816.70	
S. TOMLINSON, 2 DAYS @ \$120.20	240.40	
J. BOSHER, 3 DAYS @ \$115.39	346.17	
E. TIMOSHENKO, 2 DAYS @ \$92.31	<u>184.62</u>	\$ 1,587.89
<u>BENEFITS @ 20%</u>		317.58
<u>RENTALS</u>		
KANGELD PROTON MAGS 11 DAYS 2 @ \$27	\$ 594.00	
KANGELD EM-16 11 DAYS @ \$27	<u>297.00</u>	891.00
<u>CONTRACTORS</u>		
P.E. WALCOTT & ASSOC. GRD IP	\$ 5,412.30	
AERODAT LIMITED A/B 139 LKM	<u>10,425.00</u>	\$ 15,837.30
<u>GENERAL COSTS APPORTIONED</u>		
12/51 X \$6,628.70		<u>1,559.64</u>
<u>TOTAL GEOPHYSICAL SURVEYS COST</u>		<u>\$ 20,193.41</u> =====

DIAMOND DRILLING COST

<u>SALARIES &amp; WAGES</u>		
P. GRUNENBERG, 6 DAYS @ \$163.34	\$ 980.04	
S. TOMLINSON, 5 DAYS @ \$120.20	601.01	
J. BOSHER, 5 DAYS @ \$115.39	576.95	
E. TIMOSHINKO, 1 DAY	92.31	
W. SISSONS, 4 DAYS @ \$120.20	<u>480.80</u>	\$ 2,731.10
<u>BENEFITS @ 20%</u>		546.22
<u>ARCTIC DIAMOND DRILLING LTD.</u>		43,023.25
<u>ASSAYS &amp; ANALYSES - CHEMEX LABS</u>		
131 ROCKS FOR AU @ \$17	\$ 2,227.00	
131 PULPS FOR 30-ELEMENT ICP @ \$6.50	<u>851.50</u>	3,078.50

DIAMOND DRILLING COST CONT'D.

<u>BALANCE FORWARDED</u>	\$ 3,078.50
<u>GENERAL COSTS APPORTIONED</u> 21/51 X \$6,628.70	<u>2,729.46</u>
<u>TOTAL DIAMOND DRILLING COST</u>	<u>\$ 52,108.53</u> =====

BULLDOZING COST

<u>SALARIES &amp; WAGES</u> P. GRUNENBERG, 1 DAY	\$ 163.34
<u>BENEFITS @ 20%</u>	32.67
<u>CONTRACTOR</u>	\$ 4,190.00
<u>GENERAL COSTS APPORTIONED</u> 1/51 X \$6,628.70	<u>129.97</u>
<u>TOTAL BULLDOZING COST</u>	<u>\$ 4,515.98</u> =====

PERSONNEL EMPLOYED ON SURVEY.

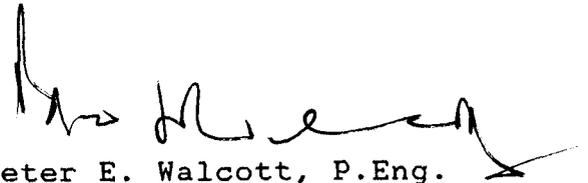
<u>NAME</u>	<u>OCCUPATION</u>	<u>ADDRESS</u>	<u>DATES</u>
P. Grunenberg	Geologist	Mark Management Ltd. 1900 999 W. Hastings Vancouver, B.C.	June 2-Dec.16 1986
S. Tomlinson	"	"	"
J. Bosher	"	"	"
E. Timoshenko	"	"	"
G. MacMillan	Geophysical operator	Peter E. Walcott & Assoc 605 Rutland Court, Coquitlam, B.C. V3J 3T8	July 30,31 Aug.20,1986 Jan 4, 1987
B. Summerfield	"	"	July 30,31 1986
R. Summerfield	"	"	"
V. Pashniak	"	"	Jan 6, 1987
P. Walcott	Geophysicist	"	Dec. 16,86 Jan 14 & 15, 1987
J. Walcott	Typing	"	Feb. 19, 1987

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CERTIFICATION.

I, Peter E. Walcott, of the Municipality of Coquitlam, British Columbia, hereby certify that:

1. I am a Graduate of the University of Toronto in 1962 with a B.A.Sc. in Engineering Physics, Geophysics Option.
2. I have been practising my profession for the last twenty years.
3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.
4. I hold no interest, direct or indirect, in the securities or properties of Eastern Mines Ltd.



Peter E. Walcott, P.Eng.

Vancouver, B.C.

February 1987

I.P. PSEUDO-SECTIONS



Anomalous Zone



Possible Anomalous Zone

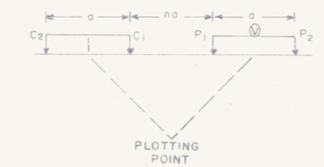
**EASTERN MINES LTD.**  
 CRAZY LADY GRID  
 DAWSON AREA, Y.T.

**LINE 0+00 N/S**



**INDUCED POLARIZATION SURVEY**

DIPOLE - DIPOLE  
 ELECTRODE CONFIGURATION



CURRENT ELECTRODE WEST OF POTENTIAL ELECTRODE  
 DIPOLE SEPARATION "a" - 25 METRES  
 TIME DELAY - 200 MILLI-SECONDS  
 SAMPLING TIME - 1000 MILLI-SECONDS  
 RECEIVER - HUNTEC MARK IV  
 TRANSMITTER - PHOENIX IPT I

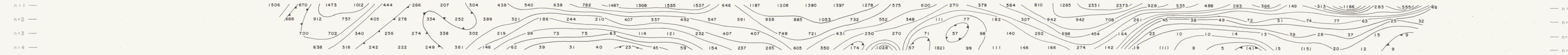
CONTOUR INTERVAL  
 APPARENT RESISTIVITY - 5, 7, 10, 20, 30, 50, 70, 100,  
 200, 300, 500, 700, 1000, etc.  
 APPARENT CHARGEABILITY - 5, 10, 15, 20, 25, 30, 35,  
 40, 45, 50, 55, 60, 65, etc.

SURVEY BY  
 PETER E. WALCOTT & ASSOC. LTD.  
 JULY - 1986

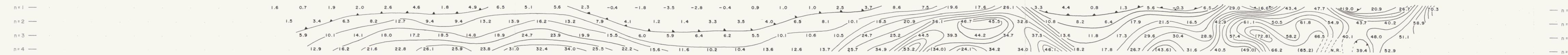
1456

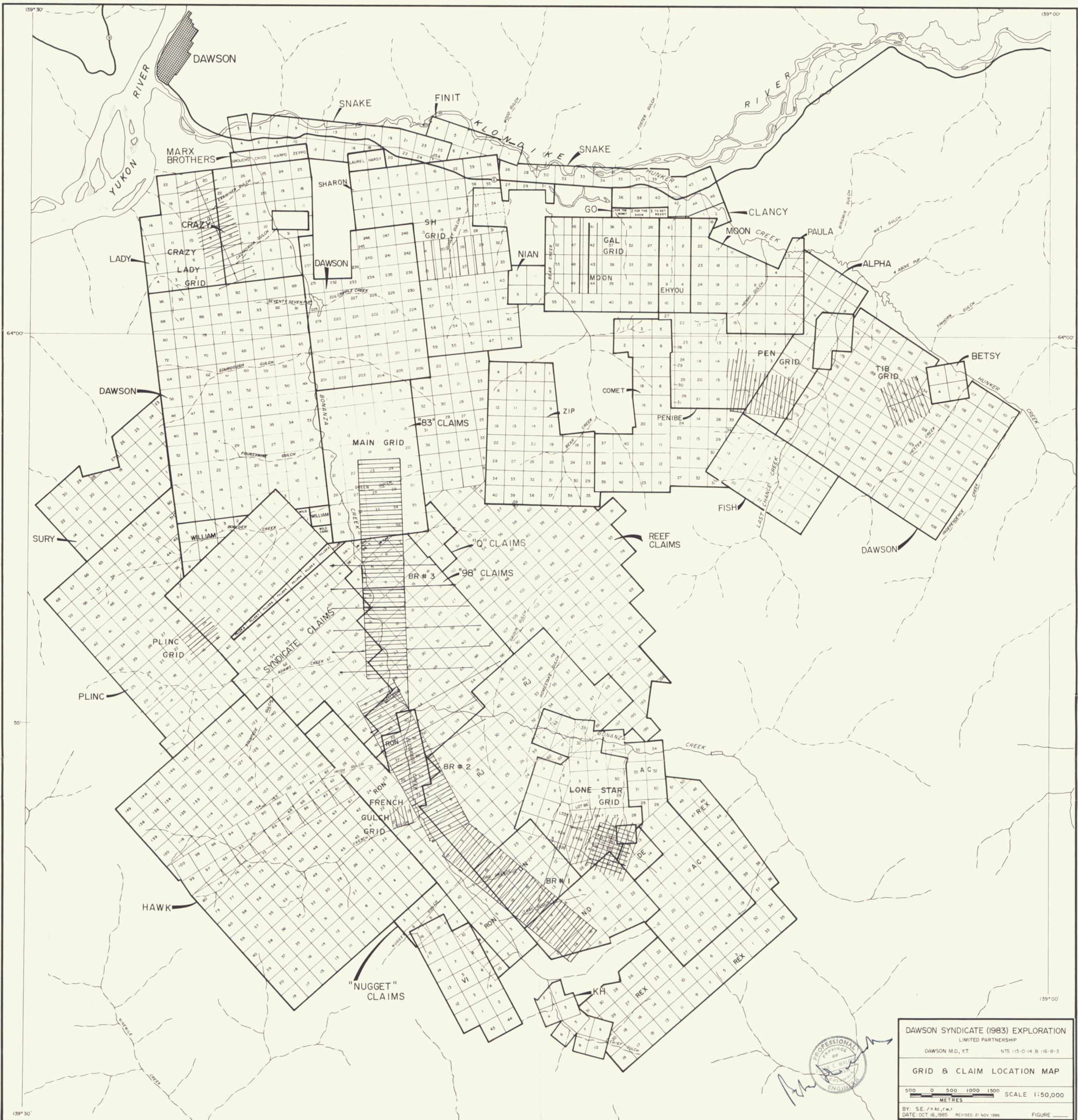
5+50-W 5+00-W 4+50-W 4+00-W 3+50-W 3+00-W 2+50-W 2+00-W 1+50-W 1+00-W 0+50-W 0+00 0+50-E 1+00-E 1+50-E 2+00-E 2+50-E 3+00-E 3+50-E 4+00-E 4+50-E 5+00-E 5+50-E

APPARENT RESISTIVITY OHM - METRES



APPARENT CHARGEABILITY MILLI-VOLTS/VOLT





DAWSON SYNDICATE (1983) EXPLORATION  
 LIMITED PARTNERSHIP  
 DAWSON M.D., Y.T. NTS 115-0-14 & 116-B-3  
**GRID & CLAIM LOCATION MAP**  
 500 0 500 1000 1500 SCALE 1:50,000  
 METRES  
 BY: S.E. / n.k.c., r.w.f.  
 DATE: OCT 16, 1985 REVISED 21 NOV 1986 FIGURE \_\_\_\_\_



1457

091749



..... DIABASE DYKE  
 ~~~~~ INTERPRETED FAULT

N.B. ADD 57,000 GAMMAS  
 TO ALL READINGS

1458

**EASTERN MINES LTD.**  
 CRAZY LADY GRID ; DAWSON AREA , Y.T.

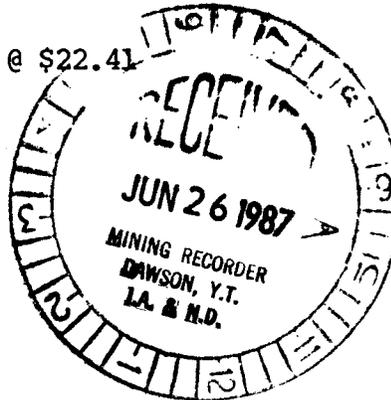
**MAGNETOMETER SURVEY**  
 CONTOURS OF TOTAL FIELD INTENSITY  
 ( IN GAMMAS )  
 SCALE 1:5,000

MAP No. W-393-11 **091749** JULY-1986



EAN/DAW 1986  
2 JUNE-16 DECEMBER 1986  
GENERAL COSTS

|                                                         |               |                             |
|---------------------------------------------------------|---------------|-----------------------------|
| <u>FOOD &amp; ACCOMMODATION</u> , 51 MAN DAYS @ \$22.41 |               | \$ 1,143.11                 |
| <u>SUPPLIES</u>                                         |               | 990.30                      |
| <u>FUEL</u>                                             |               | 731.74                      |
| <u>TELEPHONE SERVICES</u>                               |               | 223.11                      |
| <u>FEES</u>                                             |               | 246.00                      |
| <u>SHIPPING</u>                                         |               | 596.64                      |
| <u>RENTALS</u>                                          |               |                             |
| AIRWAYS 4WD PU, 15 DAYS @ \$43                          | \$ 645.00     |                             |
| AIRWAYS 4WD BLAZER, 15 DAYS @ \$43                      | 645.00        |                             |
| EZEKIEL FIELD EQUIPMENT, 51 MAN DAYS @ \$6              | <u>306.00</u> | 1,596.00                    |
| <u>DRAFTING</u>                                         |               | 170.55                      |
| <u>CONSULTANT FEES</u>                                  |               |                             |
| ADDER EXPLORATION & DEVELOPMENT LTD.                    | \$ 56.25      |                             |
| ARCHEAN ENGINEERING LTD.                                | <u>875.00</u> | <u>\$ 931.25</u>            |
| <u>TOTAL GENERAL COSTS</u>                              |               | <u>\$ 6,628.70</u><br>===== |



LINE-CUTTING, FLAGGING, SURVEYING COST

|                                                     |               |                             |
|-----------------------------------------------------|---------------|-----------------------------|
| <u>SALARIES &amp; WAGES</u>                         |               |                             |
| P. GRUNENBERG, 3 DAYS @ \$163.34                    | \$ 490.02     |                             |
| S. TOMLINSON, 2 DAYS @ \$120.20                     | 240.40        |                             |
| J. BOSHER, 3 DAYS @ \$115.39                        | 346.17        |                             |
| E. TIMOSHENKO, 2 DAYS @ \$92.31                     | <u>184.62</u> | \$ 1,261.21                 |
| <u>BENEFITS @ 20%</u>                               |               | 252.24                      |
| <u>GENERAL COSTS APPORTIONED</u>                    |               |                             |
| 10/51 X \$6,628.70                                  |               | <u>1,299.74</u>             |
| <u>TOTAL LINE-CUTTING, FLAGGING, SURVEYING COST</u> |               | <u>\$ 2,813.19</u><br>===== |

GEOCHEMICAL SURVEY COST

|                                 |               |           |
|---------------------------------|---------------|-----------|
| <u>SALARIES &amp; WAGES</u>     |               |           |
| S. TOMLINSON, 3 DAYS @ \$120.20 | \$ 360.60     |           |
| J. BOSHER, 1 DAY                | 115.39        |           |
| E. TIMOSHINKO, 3 DAYS @ \$92.31 | <u>276.93</u> | \$ 752.92 |
| <u>BENEFITS @ 20%</u>           |               | 150.58    |

GEOCHEMICAL SURVEY COST CONT'D.

|                                             |  |                    |
|---------------------------------------------|--|--------------------|
| <u>BALANCE FORWARDED</u>                    |  | \$ 150.58          |
| <u>ASSAYS &amp; ANALYSES - CHEMEX LABS</u>  |  |                    |
| 190 SOILS FOR AU & 30-ELEMENT ICP @ \$15.25 |  | 2,897.50           |
| <u>GENERAL COSTS APPORTIONED</u>            |  |                    |
| 7/51 X \$6,628.70                           |  | <u>909.82</u>      |
| <u>TOTAL GEOCHEMICAL SURVEY COST</u>        |  | <u>\$ 4,710.82</u> |

GEOPHYSICAL SURVEYS COST

|                                       |                  |                     |
|---------------------------------------|------------------|---------------------|
| <u>SALARIES &amp; WAGES</u>           |                  |                     |
| P. GRUNENBERG, 5 DAYS @ \$163.34      | \$ 816.70        |                     |
| S. TOMLINSON, 2 DAYS @ \$120.20       | 240.40           |                     |
| J. BOSHER, 3 DAYS @ \$115.39          | 346.17           |                     |
| E. TIMOSHENKO, 2 DAYS @ \$92.31       | <u>184.62</u>    | \$ 1,587.89         |
| <u>BENEFITS @ 20%</u>                 |                  | 317.58              |
| <u>RENTALS</u>                        |                  |                     |
| KANGELD PROTON MAGS 11 DAYS 2 @ \$27  | \$ 594.00        |                     |
| KANGELD EM-16 11 DAYS @ \$27          | <u>297.00</u>    | 891.00              |
| <u>CONTRACTORS</u>                    |                  |                     |
| P.E. WALCOTT & ASSOC. GRD IP          | \$ 5,412.30      |                     |
| AERODAT LIMITED A/B 139 LKM           | <u>10,425.00</u> | \$ 15,837.30        |
| <u>GENERAL COSTS APPORTIONED</u>      |                  |                     |
| 12/51 X \$6,628.70                    |                  | <u>1,559.64</u>     |
| <u>TOTAL GEOPHYSICAL SURVEYS COST</u> |                  | <u>\$ 20,193.41</u> |

DIAMOND DRILLING COST

|                                            |               |             |
|--------------------------------------------|---------------|-------------|
| <u>SALARIES &amp; WAGES</u>                |               |             |
| P. GRUNENBERG, 6 DAYS @ \$163.34           | \$ 980.04     |             |
| S. TOMLINSON, 5 DAYS @ \$120.20            | 601.01        |             |
| J. BOSHER, 5 DAYS @ \$115.39               | 576.95        |             |
| E. TIMOSHINKO, 1 DAY                       | 92.31         |             |
| W. SISSONS, 4 DAYS @ \$120.20              | <u>480.80</u> | \$ 2,731.10 |
| <u>BENEFITS @ 20%</u>                      |               | 546.22      |
| <u>ARCTIC DIAMOND DRILLING LTD.</u>        |               | 43,023.25   |
| <u>ASSAYS &amp; ANALYSES - CHEMEX LABS</u> |               |             |
| 131 ROCKS FOR AU @ \$17                    | \$ 2,227.00   |             |
| 131 PULPS FOR 30-ELEMENT ICP @ \$6.50      | <u>851.50</u> | 3,078.50    |

DIAMOND DRILLING COST CONT'D.

|                                                        |                              |
|--------------------------------------------------------|------------------------------|
| <u>BALANCE FORWARDED</u>                               | \$ 3,078.50                  |
| <u>GENERAL COSTS APPORTIONED</u><br>21/51 X \$6,628.70 | <u>2,729.46</u>              |
| <u>TOTAL DIAMOND DRILLING COST</u>                     | <u>\$ 52,108.53</u><br>===== |

BULLDOZING COST

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| <u>SALARIES &amp; WAGES</u><br>P. GRUNENBERG, 1 DAY   | \$ 163.34                   |
| <u>BENEFITS @ 20%</u>                                 | 32.67                       |
| <u>CONTRACTOR</u>                                     | \$ 4,190.00                 |
| <u>GENERAL COSTS APPORTIONED</u><br>1/51 X \$6,628.70 | <u>129.97</u>               |
| <u>TOTAL BULLDOZING COST</u>                          | <u>\$ 4,515.98</u><br>===== |