

**DOLORES EXPLORATION PROJECT**

**1995 ASSESSMENT REPORT  
RAM CLAIMS**

**MAYO MINING DISTRICT,  
YUKON TERRITORY, NTS 106C 14**



**GEOLOGICAL, GEOCHEMICAL & GEOPHYSICAL**

**RAM Mineral claims 1 to 40**

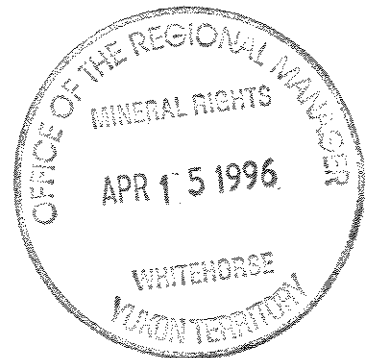
**Exploration Program Conducted Between:  
August 02 and October 02, 1995**

**Prepared for**

**ANVIL RESOURCES LTD.**

**office at 535 W 57th Ave, VANCOUVER, B.C.**

**Report by J. H. HAJEK  
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# DOLORES - RAM EXPLORATION PROJECT

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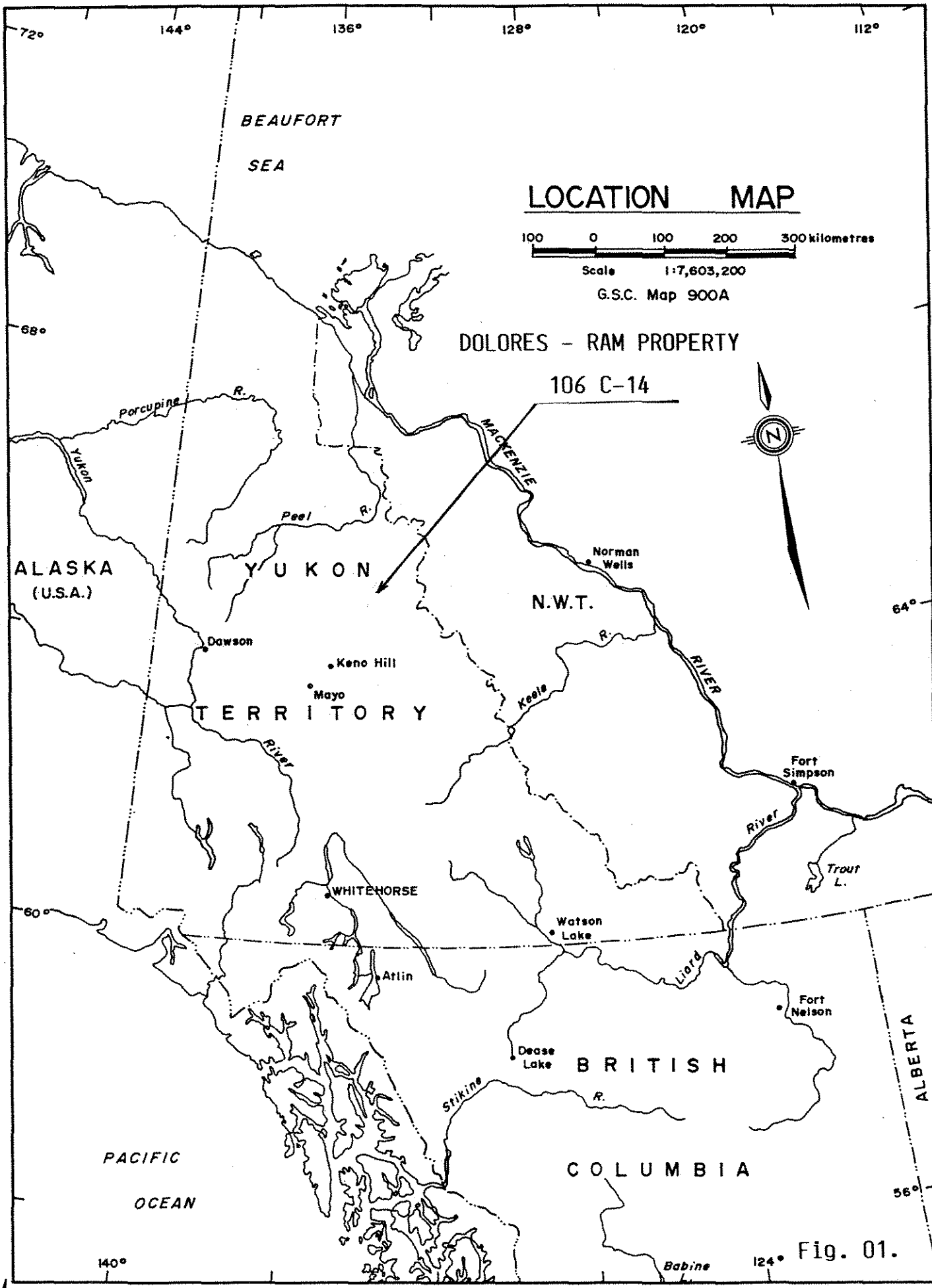
1995 Field Sample Description

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### APPENDIX B

Geophysical Magnetic Field Coverage Map

Corrected Magnetic Field Data on lines 5825E, 5850E, 5875E, and 5900E



# LOCATION MAP

100 0 100 200 300 kilometres

Scale 1:7,603,200

G.S.C. Map 900A

DOLORES - RAM PROPERTY

106 C-14



ALASKA (U.S.A.)

YUKON

N.W.T.

TERRITORY

BRITISH

COLUMBIA

ALBERTA

PACIFIC OCEAN

Fig. 01.

## DOLORES RAM PROJECT, YT. N.T.S. 106C 14

### Summary

- High grade copper and cobalt ore covers a large area adjacent to a magnetic high iron carbonate stock (gossan) along Tetrahedrite Creek.
- Exceptional values of gold & silver are concentrated to the east of tetrahedrite creek along the 3 kilometers of the Iota fault.

### I. INTRODUCTION

The geology and economic potential of precious metals and copper-cobalt prospects covered by the Dolores RAM properties (under option to ANVIL RESOURCES Ltd., located at 535 West 57th Avenue Vancouver, B.C. V6P 1R8) is outlined in this report.

The data is based on the exploration programs carried out by Valor Ventures Ltd. of Vancouver, B.C. under the direction of J. H. HAJEK a mining Consultant/Geochemist and the writer of this report, (Fig. 1).

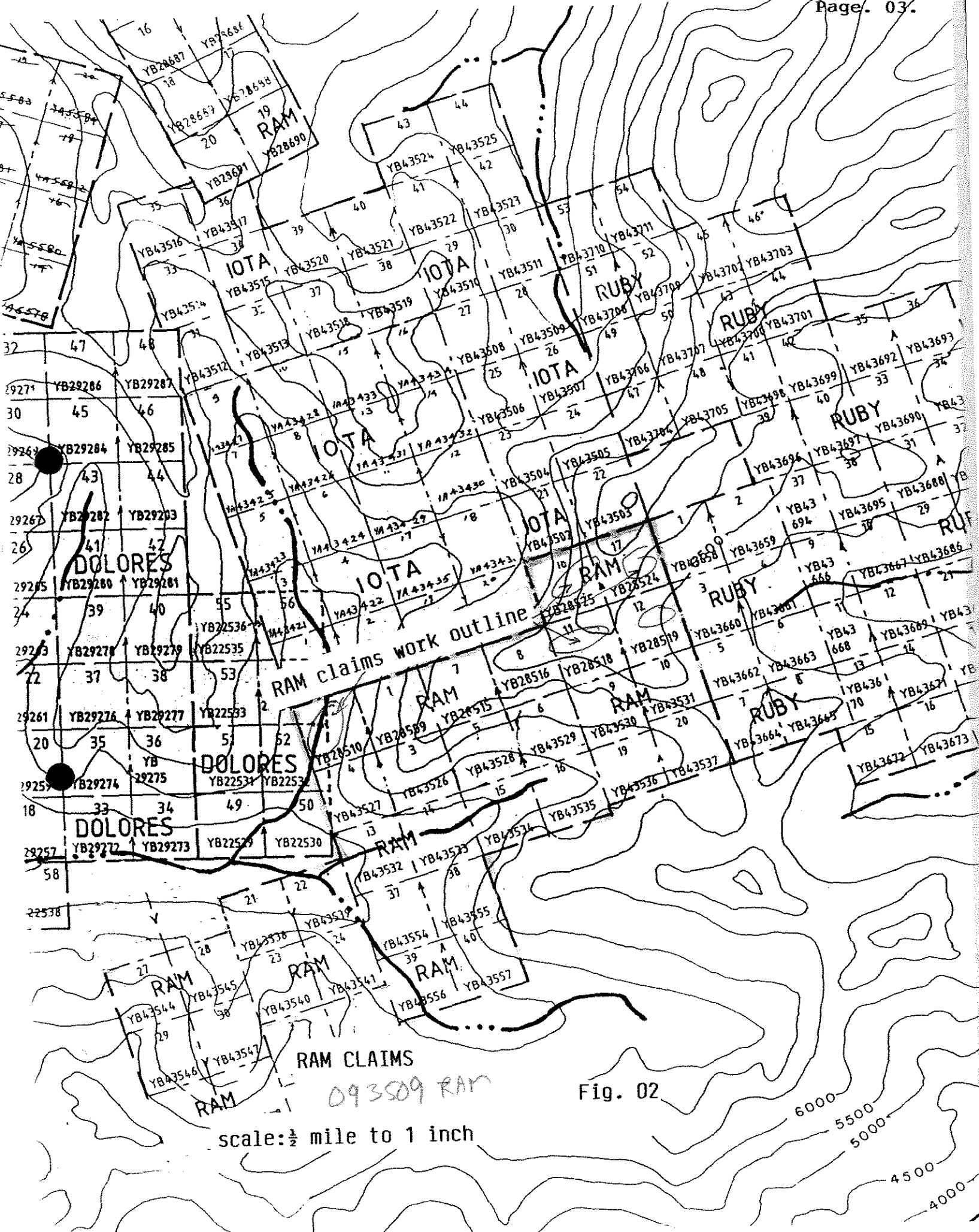
This report details geophysical, geological, physical trenching, and geochemical prospecting data taken during the summer of 1995. Mineral occurrences along with copper-cobalt prospects have attracted exploration projects since 1960 and has been pursued within this program.

#### 1. Property and Ownership

The properties consists of 32 mineral claims, covering about 1600 acres. The claims are registered in the Mayo Mining District, Yukon Territory (Fig. 2).

Anvil Resources Ltd. is in the process of acquiring 80% ownership through an agreement with both Zelon and the owners who retain a 20 % interest in the RAM group of claims.





scale: 1/2 mile to 1 inch

Fig. 02

Claim	Grant #	Located	Recorded	Lapse Date	Ownership
RAM 1	YB28509		June 25, 1992	June 25, 1995	J.H.
RAM 2	YB28510		June 25, 1992	June 25, 1995	D.H.
RAM 3	YB43526	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 4	YB43527	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 5	YB43528	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 6	YB43529	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 7	YB28515		June 25, 1992	June 25, 1995	D.H.
RAM 8	YB28516		June 25, 1992	June 25, 1995	D.H.
RAM 9	YB43530	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	J.H.
RAM 10	YB43531	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	J.H.
RAM 11	YB28518		June 25, 1992	June 25, 1995	J.H.
RAM 12	YB28519		June 25, 1992	June 25, 1995	J.H.
RAM 13	YB43532	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 14	YB43533	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 15	YB43534	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 16	YB43535	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 17	YB28524		June 25, 1992	June 25, 1995	J.H.
RAM 18	YB28525		June 25, 1992	June 25, 1995	J.H.
RAM 19	YB43536	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	J.H.
RAM 20	YB43537	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	J.H.
RAM 21	YB43538	Sept 26, 1994	Oct 4, 1994	Oct 4, 1995	J.H.
RAM 22	YB43539	Sept 26, 1994	Oct 4, 1994	Oct 4, 1995	J.H.
RAM 23	YB43540	Sept 26, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 24	YB43541	Sept 26, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 27	YB43544	Sept 26, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 28	YB43545	Sept 26, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 29	YB43546	Sept 26, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 30	YB43547	Sept 26, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 37	YB43554	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 38	YB43555	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	D.H.
RAM 39	YB43556	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	J.H.
RAM 40	YB43557	Sept 23, 1994	Oct 4, 1994	Oct 4, 1995	J.H.

A TOTAL OF 16 + 16 claims = 32 claims

**Application is herewith made** with the MAYO mining recorder to record the 1995 year representation of work for an additional one year period on the following claims groupings (Fig 02):

**(A) RAM 8, 11, 12, & 18 representing RAM 3, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, & 20 .**

\$1,600.00 of WORK to be filled which started August 4, 1995.

25 cubic yards of rock blasting over 10 showings.

each trench is 2.5 meters long x 1m wide x 1m deep

2 men x 3 days = 6 man days / days

line cutting, flagging : 2 men x 1 day = 2 man / days

Geological, geochemical & geophysical = 5 man / days

**TOTAL: 13 man / days with expenditures of \$ 13,362.00**

**(B) RAM 1, 2 representing RAM 1, 2, 4, 13, 21, 22, 23, 24, 27, 28, 29, 30, 37, 38, 39, & 40.**

\$1,600.00 of WORK to be filled which started September 23, 1995.

18 cubic yards of rock blasting over 9 showings.

each trench is 2 meters long x 1m wide x 1m deep

2 men x 3 days = 6 man days / days

2000 meters of line cutting, flagging : 2 men x 1 day = 2 man / days

Geological & geochemical = 4 man / days

**TOTAL: 12 man / days with expenditures of \$ 12,219.68**

## **2. Property Location**

The Dolores Ram project is located 150 kilometers North-East of Keno Hill, Mayo mining district, Yukon; in the Bonnet Plume range of north eastern Yukon (approximately 400 kilometers north of Whitehorse, Yukon Territories - refer to fig. 01).

The RAM claims are in map area 106C/14 at a latitude of 64° 55' N and a longitude of 133° 47' W. These claims are accessible by float or ski equipped

aircraft to Glacial Lake, located at a distance of 12 kilometers west from the Ram claims.

A gravel airstrip is present at the Dolores Creek North Arm, two kilometers west of the RAM claims. Also, a good winter road provides access to the area from Keno Hill and is currently being used by several operators.

The Dolores Creek region physiography consists of mountain with peaks approaching 2,200 meters, separated by " U " shape glacial valleys of all sizes and shapes; most valley floor are at 1,000 meters (above sea level).

The climate is semi arid with extreme temperature variation of 15C in the summer and -40C during the winter. Vegetation consists of alpine sub-arctic with some boreal forest and grass in the sheltered valley floors. There is some soil and moss present, but the organic cover is thin, even in timbered areas thus restricting the soil sampling to talus fines.



### 3. Personnel and time distribution

The following personnel took part in the 1995 exploration program on the Dolores Ram (106-C-14) properties:

Hajek, J. H.	Project Manager Geochemist July 29 to October 02,1995.	Valor Ventures Ltd. Vancouver, B.C.
Mc Gowan, Ed.	Senior Geophysicists Consultant July 29 to August 30, 1995	Diamond E Explorations Ltd. Calgary, Alberta
Hajek, Patrick	Engineering Physics Programmer/Operator July 29 to October 01,1995.	Valor Ventures Ltd. Vancouver, B.C.
Engelbert, M	Geophysical Operator Sampler July 29 to August 19,1995.	Valor Ventures Ltd. Vancouver, B.C.
Hajek, Daniel	Mining Technician Drilling/Blasting July 29 to September 05,1995.	Valor Ventures Ltd. Vancouver, B.C.
Kraft, Troy	Field Assistant Drilling/Blasting July 29 to September 05,1995.	Valor Ventures Ltd. Vancouver, B.C.
Keyser, Harmen	Helicopter Pilot Base Manager July 28 to September 17, 1995	Trans North Helicopters Mayo, Yukon
Ferychuk, Ono	Floatplane Pilot Pilot, August 01 to October 06,1995.	Blacksheep Aviation Whitehorse, Yukon

A base camp was established on Tetrahedrite creek, from 04 of August, to October 02 1995. 25 man days were spent on this exploration project in 1995.

Detail man days per claim group as per affidavit of expenditures is as follows:

**( A ) RAM 3, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, & 20.**

\$1,600.00 of WORK to be filled which started August 4, 1995.

**13 man / days with total expenditures of \$ 13,362.00**

**( B ) RAM 1, 2, 4, 13, 21, 22, 23, 24, 27, 28, 29, 30, 37, 38, 39, & 40.**

\$1,600.00 of WORK to be filled which started September 23, 1995.

**12 man / days with total expenditures of \$ 12,219.68**





## II. GEOLOGY & MINERAL OCCURRENCES

Geological mapping has been conducted in the region by the Geological Survey of Canada (Blusson 1974, Delaney 1980) and the Yukon geoscience office (1981-1993), fig. 03.

Regionally, the area is predominantly underlain by middle to Late Proterozoic clastic & carbonate sedimentary rocks lying within the Wernecke Inlier (Fig. 04).

### 1. Regional Geology

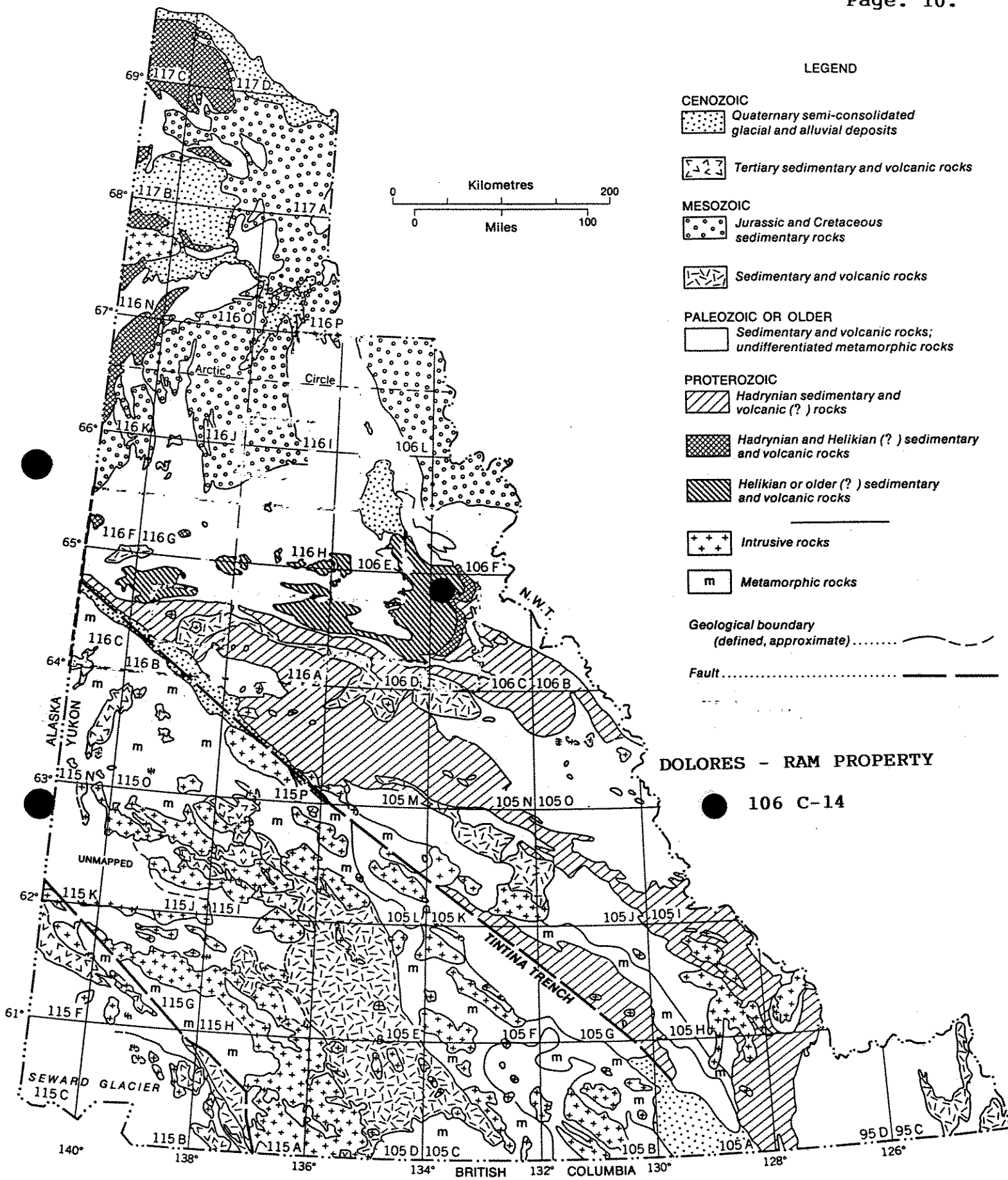
Proterozoic rock are divided into an Helikian sequence known as Wernecke Supergroup. Three groups define the Wernecke Supergroup representing 13,000 meters of Middle Proterozoic sediments and have the following type of deposition, starting with the lower sequence (Table 01). These three groups are as follows:

- Fairchild Lake Group: the lowermost, includes 4,000 meter sequences of shales, slates or siltstone with minor carbonate interbeds.
- The Quartet Lake Group: 5,000 m. of overlying slates, argillites & siltstones.
- Gillespie Lake Group conformably caps the sequence and is comprised of 4,000 meters of orange weathering dolomites, limestones & argillites.

The Dolores Creek North area is close to the core of a N.E. trending, N.E. plunging complex anticline, deformed into a system of relatively open folds with moderate to steep dips.

The deformation near Dolores Creek is the results of several phases. The older Proterozoic rocks may have been deformed by the middle Proterozoic Racklan orogeny and the entire Proterozoic sequence as well as the Palerozoic cover sediments were involved in the Laramide Orogeny. The entire thickness of sedimentary rocks exposed is about 4,000 to 5,000 meters.

**Eight phases** of deformation occurred during the interval Middle Proterozoic to Paleozoic or younger:



General geology of the Yukon showing the location of the study area

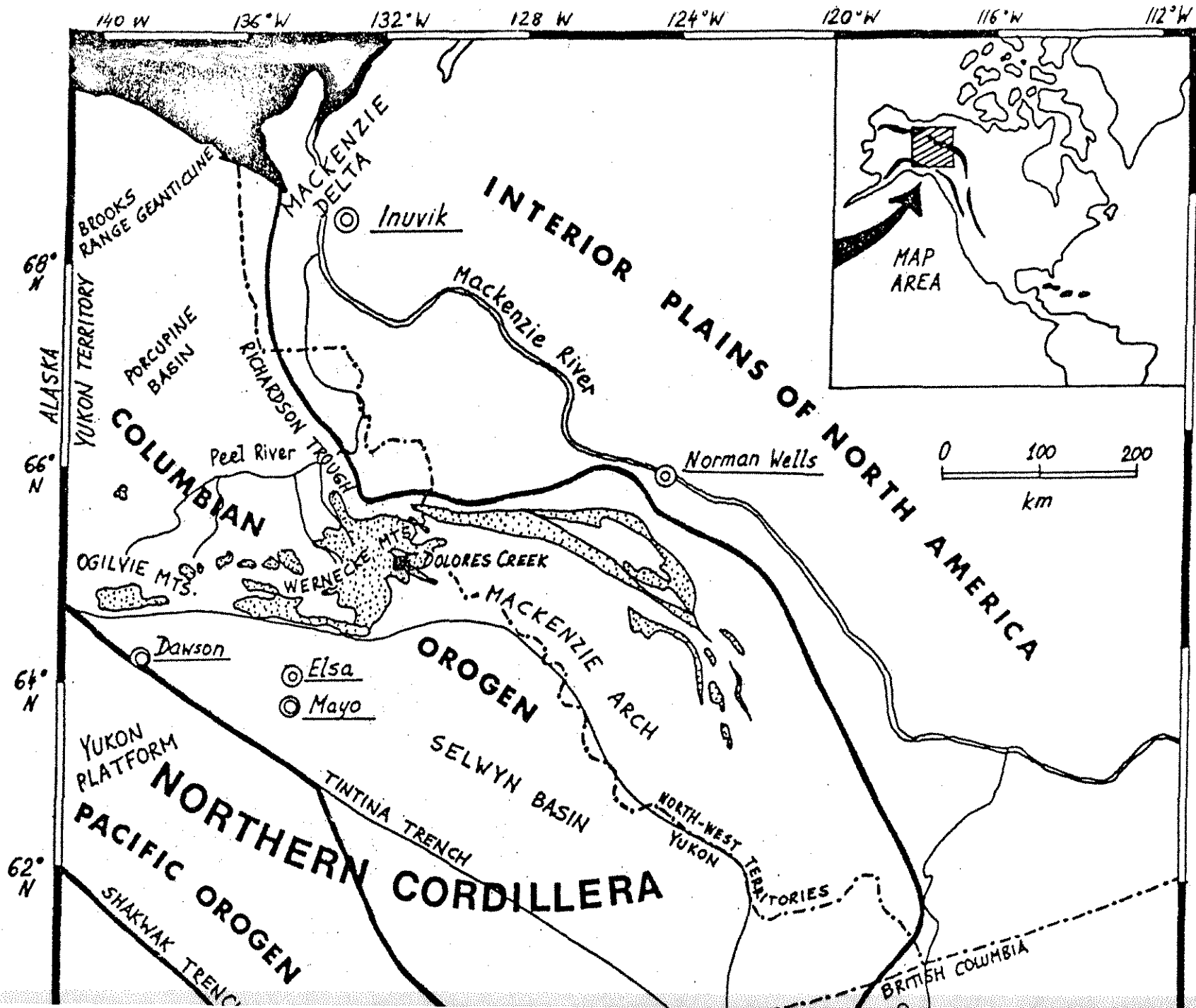


FIG. 04

- **Phase 1** was contractional producing fold and cleavage in the Wernecke Supergroup strata. Steeply dipping faults that cut both Helikian and Hadrynian strata with an orientation of west to northwest; offsets include both vertical and horizontal displacement.
- **Phase 2** is also contractional produced kinkbands in phase 1 cleavage and are considered manifestation of the Racklan orogenic.
- **Phase 3** involves fracturing, brecciation and faulting during development and emplacement of Wernecke breccia.
- **Phase 4** foliation consisting of fractures in Wernecke breccia and Gillespie Lake group. The fabric postdates breccia emplacement, but is truncated by the unconformity with the overlying Pinguicula group.
- **Phase 5** was contractional, producing thrust faults and folds in the Pinguicula Group before the deposition of the Windermere Supergroup
- **Phase 6** was extensional, producing normal faults.
- **Phase 7 and 8** occurred after the deposition of the Windemere Supergroup, and Upper Proterozoic to Lower Paleozoic strata.
- **Phase 8** produced normal faults which cut Windemere and younger strata.



Hadrynian rocks of late Proterozoic age lie unconformably over the previous units and are divided into the Pinguicula & Rapitan Group. They are host to massive sulfide zinc & lead deposits with silver & gold.

Breccia complexes cut Helikian Wernecke Supergroup strata (Fig. 05). They are irregularly shaped to pipe-like, and often have stratabound apophyses of breccia. Fragments within the breccia are angular to rounded and the matrix is comprised of milled rock fragments.

Alteration minerals associated with breccias include sodic-feldspar, hematite, calcite and quartz with accompanying enrichment in copper, cobalt, uranium, barium and iron. The iron could present itself as massive hematite or as large bodies of iron carbonates (Laznicka and Edwards, 1979).

## **2. Property Geology and Dolores-Ram Potential:**

The Dolores Creek north fork region has been mapped and documented by P. Laznicka. The Dolores North area has many interesting mineral occurrences, some of which are of commercial value; it is also the site of Ram 1-40 claims.

### **Dolores - Ram property**

The RAM claims are underlain by carbonate rich *Gillespie Lake Group*, subdivided Hadrynian rocks of late Proterozoic age lie unconformably over the previous units into five distinct lithological sub-units on the basis of lithological and textural characteristics (Table 1).

In the Eastern section, younger Hadrynian rocks overlie, unconformably, the *Gillespie Lake group* (Fig. 06).

Malachite has been found in green shale of the lowermost Hadrynian strata. Laznicka ( 1977 ) suggests this is a " copper shale " type mineral occurrence. It is also a potential host for strata bound base metals deposits with gold-silver enrichment.

Numerous diorite-dolerite dykes & sills with minor lamprophyre exposures are found throughout the property suggesting a common larger intrusive source.

INTRUSIVE AND STRATIFORM BRECCIAS

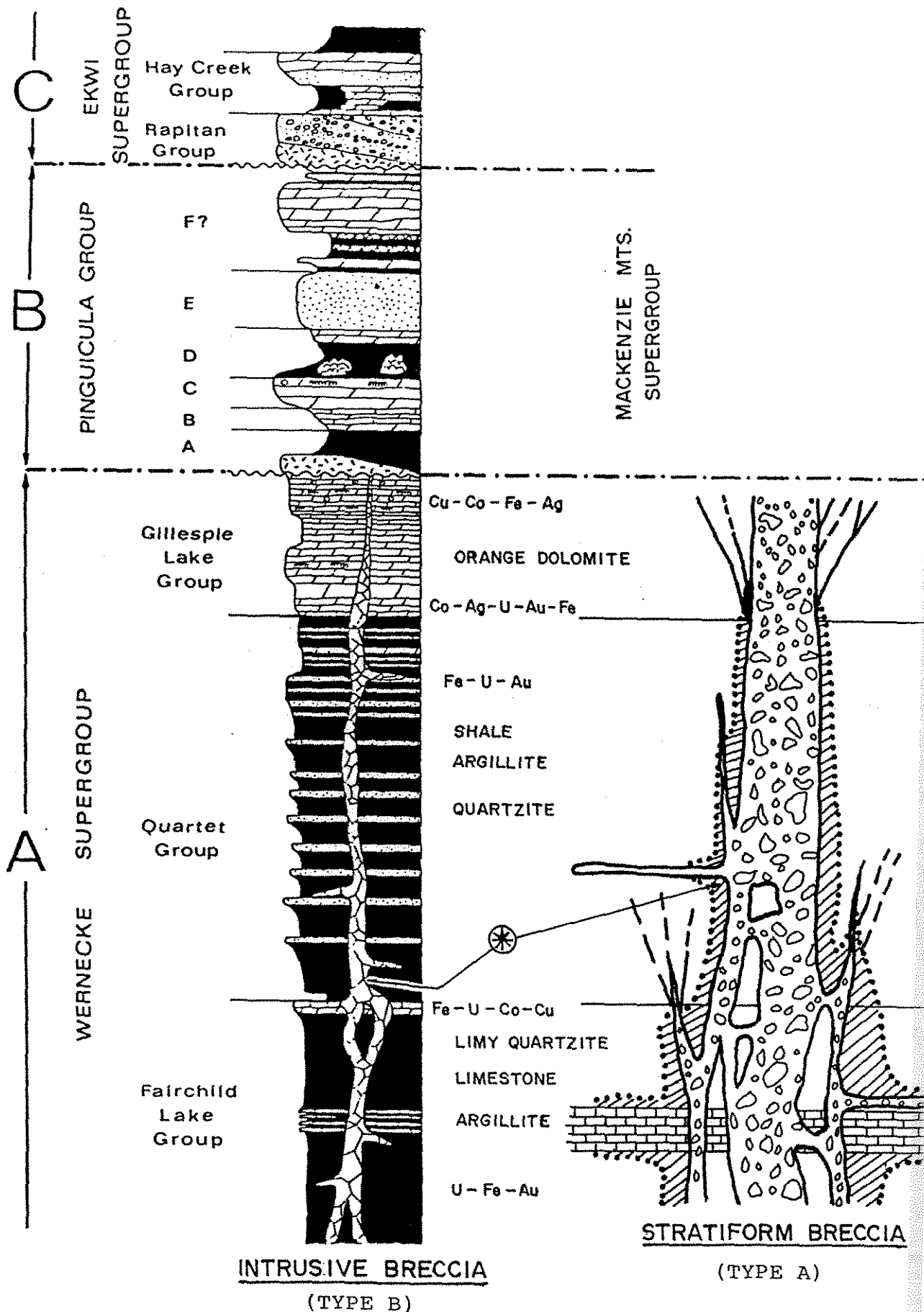


FIG. 05



**LEGEND****STRATIFIED ROCKS****Quaternary**

**Q** Alluvium, colluvium, and glacial deposits

**Upper Proterozoic to Lower Paleozoic**

**PGu** Rusty to grey weathering quartz arenite; pinkish orange and grey weathering white carbonate; pebble conglomerate; siltstone and shale

**Upper Proterozoic****Windermere Supergroup**

**PS** **Sheepbed Formation:** recessive, black weathering shale and siltstone; minor grey weathering limestone near top of unit

**PK** **Keele Formation:** thin bedded to massive, light orange to brown weathering micritic dolostone. Minor brown weathering diamictite locally forming base of unit may belong to Ice Brook Formation

**PT** **Twitya Formation:** thin bedded, brown weathering siltstone interbedded with sandstone, granule to pebble conglomerate ("grit"), and light grey weathering dolostone

**PTP** **Profelt dolostone (facies of Twitya Formation):** massive to thick bedded, light grey weathering dolostone commonly containing vugs, stromatolites, oncolites, oolites and micritic intraclasts; commonly feldic; minor siltstone, sandstone and grit

**PSH** **Shezal Formation:** massive, green weathering diamictite containing rounded to subrounded pebbles and cobbles of carbonate, sandstone and (?)greenstone

**PSA** **Sayunei Formation:** thick bedded to massive, orange to brown weathering sandstone, and conglomerate containing rounded to subrounded pebble to boulder sized clasts of carbonate, siltstone and quartz arenite

**Middle to Upper Proterozoic**  
**Pingulcula Group**

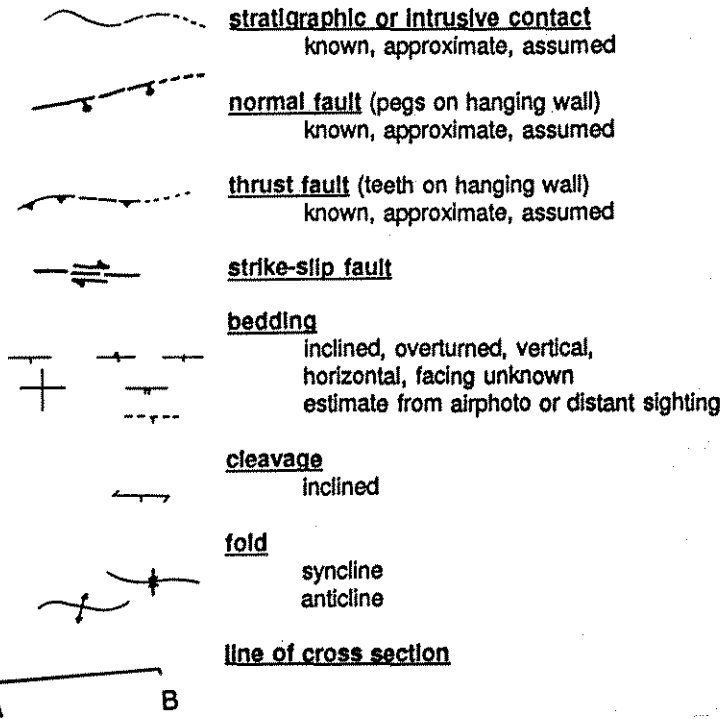
**PPd** **Unit D:** medium to very thick bedded buff, orange, brown and grey weathering dolostone, interbedded with black, grey and maroon weathering shale, micaceous siltstone, nodular limestone, and light grey weathering quartz arenite. Stromatolites are locally abundant in basal and upper parts of succession

**PPdq** **Corn Creek quartz arenite (facies of Unit D):** thick to very thick bedded, light grey weathering quartz arenite, minor siltstone and carbonate; abundant in upper parts of Unit D; formerly termed "Corn Creek quartzite"

**PPc** **Unit C:** thin to very thick bedded and massive, grey weathering dolostone and limestone; abundant "zebra" texture and pods of coarse grained sparry dolomite; minor intraclast conglomerate and interbeds of black shale

**PPb** **Unit B:** medium bedded, orange weathering dolostone; minor grey weathering limestone and maroon weathering siltstone. Local crossbedding and intraclast conglomerate

**PPa** **Unit A:** thin bedded, laminated, maroon, green and black weathering siltstone and shale; minor basal sandstone and conglomerate



**Middle Proterozoic**  
**Wernecke Supergroup**

**PGL**

**Gillespie Lake Group:** orange, brown and grey weathering dolostone and silty dolostone, locally stromatolitic, locally hosting chert nodules and sparry karst infillings; minor siltstone and shale, and light grey weathering quartzose sandstone

**PGLb**

**Basal Gillespie Lake Group:** cross laminated, orange weathering silty to sandy dolostone interbedded with black weathering shale and grey to white weathering, quartzose, fine grained sandstone

**PQ**

**Quartet Group:** black weathering shale, finely laminated dark grey weathering siltstone, and planar to cross laminated light grey weathering siltstone and very fine grained sandstone. In upper part of succession, siltstone and fine grained sandstone interbedded with subordinate orange weathering dolostone grades upward into basal Gillespie Lake Group

**PFL**

**Fairchild Lake Group:** thinly bedded, laminated to cross-laminated, black to greenish-grey weathering siltstone and limy siltstone; minor black to grey weathering slate and kinked slate; minor brown weathering dolostone

**PSH**

**Shezal Formation:** massive, green weathering diamictite containing rounded to subrounded pebbles and cobbles of carbonate, sandstone and (?)greenstone

**PSA**

**Sayunei Formation:** thick bedded to massive, orange to brown weathering sandstone, and conglomerate containing rounded to subrounded pebble to boulder sized clasts of carbonate, siltstone and quartz arenite

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Tet CK

093509

RAM

Above the Dolores & Tetrahedrite creek junction, 200 meters to the east, exploration trenching has uncovered gossan outcrops masking intrusive rocks ranging from Quartz-Biotite Granite to Quartz flooded Granodiorite and Albite.

High grade gold (1 to 10 oz.), silver & cobalt veins, replacement and dissemination occurs with or near basic and acidic intrusive contact. Quartz, calcite, dolomite and siderite veins are associated with faults in carbonate rocks.

The veins contain tetrahedrite, bismuth-galena complexes and sulphantimonite crystals. Pyrite, bornite, galena, sphalerite, and native gold are abundant in the claims area.

A major westerly zone of faulting constitute the Iota fault zone and consists of one or more major faults and can be traced for kilometers to the Snake river drainage basin. Several other westerly and northerly faults appear to be well mineralized.

### 3. Conclusion:

Mineral occurrences are abundant in the project area and consist of high grade copper, gold & silver.

Cobalt sulphides are found in sedimentary units made of argillite, siltstone and limestones with replacement mineralization concentrated in the vicinity of N-W trending fault systems.

Those high grade exposures extends the previously known occurrences grouped under "The 1966 Mammoth Copper-Cobalt Porphyry alteration halo."

Three type of dolostone alteration are found along or near fault zones. Each of the four gold and/or silver discoveries along the Iota fault zone is comprised of sulphide bearing veins hosted by dolostone or replacement within iron carbonate matrix. Four predominant types of mineralization have been found and are as follows:

- Type I Tetrahedrite with or without pyrite, and chalcopyrite in dark red siderite.
- Type II Comprise one or more of galena, sphalerite, stibinite, tetrahedrite in quartz, calcite and dolomite.
- Type III Transitional between I & II
- Type IV Non vein type occurrence



### III GEOPHYSICAL SAMPLING

Edwin B. McGowan, a Geophysicist from Calgary Alberta, has been in charge of setting the instrumentation package for testing the response of various geophysical tools in detecting buried breccias and mineralization of economical importance. From 1980 on, J. H. Hajek has been successful in mapping with ground and airborne radiometric, while prospecting for uranium and minerals with radio decay elements.

#### 1. Instrumentation

An EDA Total Field Magnetometer system comprise of two recording field magnetometers units and an auto recording base station have been used on this project. The field data is unloaded to a field computer at the end of each day's survey; either at the Glacial Lake field camp or at the base in Mayo. Drift and noise correction data has also been collected concurrently to account for any background disturbances. Both sets of data was correlated during the data transfer process.

The magnometers are capable of recording to 0.10 gammas with an average deviation of plus or minus 0.20 to 0.30 gammas on repeat stations during each survey. Computer equipment includes a Compaq (used in the field), an IBM Aptiva, DMP plotter, an Epson printer, and a UPS power supply.

An EM-16R Geonics VLF receiver, has been modified and is used in the measuring of the VLF and the near surface ground resistivities

#### 2. Property Coverage

The Iota-Ram fault zone area has been used for an orientation survey with a proton magnetometer; refer to fig. 7. Appendix B outline field data with detailed line magnetic variation. Readings were taken at 12.5 meter intervals, unless specified otherwise, over a distance of 1150 meters.



# MAGNETOMETER SURVEY LOCATION

## IOTA FAULT 106C-14 LOCALE 2

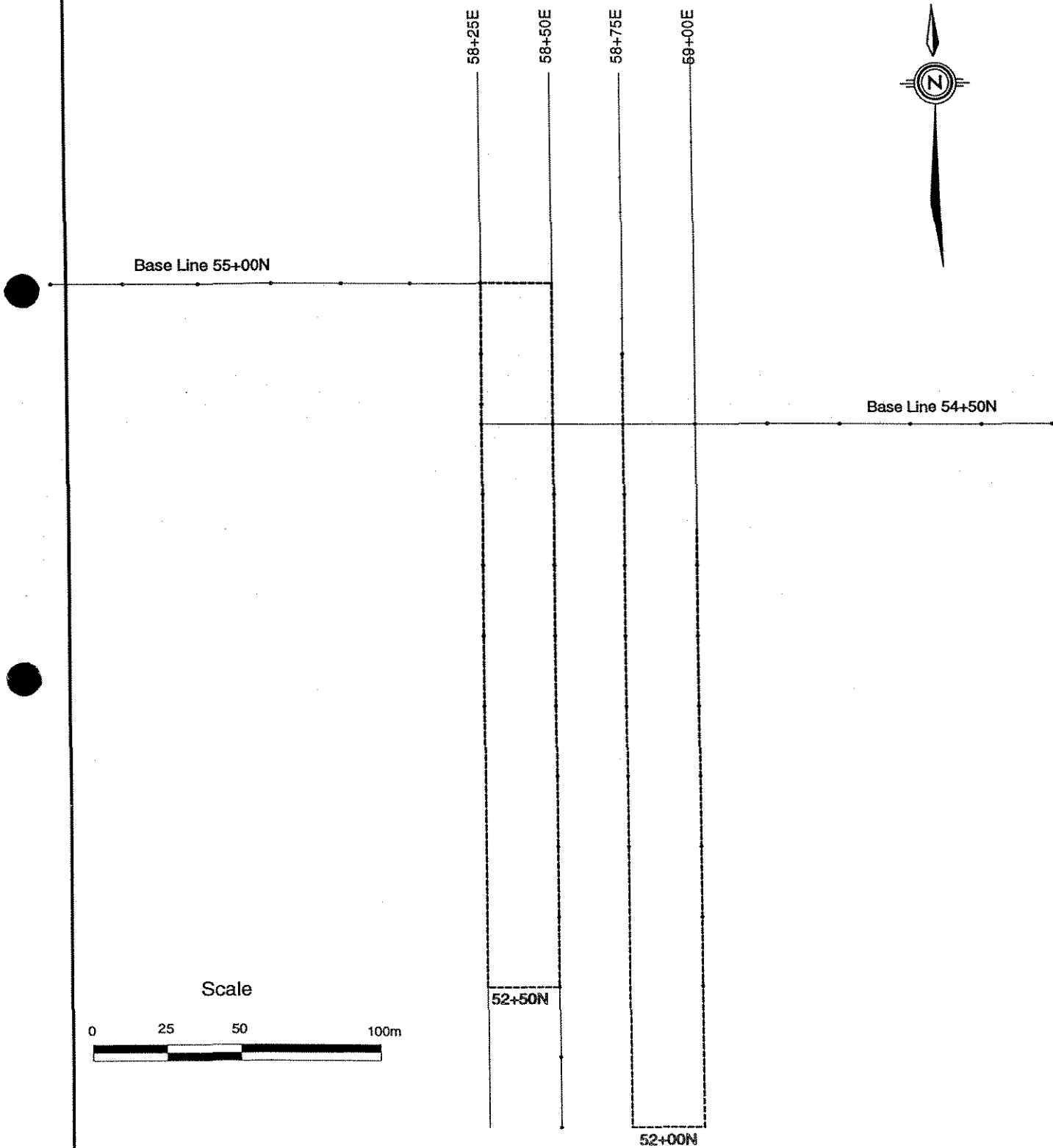


FIG. 07

The base line has a relative background of 500 gammas with a variation of 4 gammas representing the contrasts between barren sedimentary rocks and silicified rock units.

Line 5825 reflects a stable magnetic background at a relative 500 gamma level with minor peak variations of 503 and 506 gammas.

Line 5850 indicates a background of 499.5 gammas with an increase of two gammas in the alteration zone and a 60 meter wide peak of 503.5 gammas thus locating the main Iota fault structure.

Line 5875 indicates a 5 gamma variation over a distance of 275 meters. The relative threshold within this line is 500 gammas. This reflects a uniform sedimentary geological sequence.

Line 5900, the relative 497 gamma background indicates a 125 meter depression indicating a chemically leached zone. From station 5200 (502 gammas), to station 5275 (497 gammas), a drop of 5 gammas occurs over this region. At the end of the depression, an increase of 3.5 gammas occurs starting at station 5388 to station 5450.

The magnetic susceptibility of sedimentary rock units is very low (less than 5% for basalt, diabase, and rhyolite). We are measuring the remnant magnetization of Helikian sediments and observing changes in the ferromagnetic minerals due to alteration, weathering, silicification and small induced magnetization due to faulting. No magnetic anomaly due to ferromagnetic minerals is indicative of an absence of breccia in the surveyed area in contrast to Glacier lake with its +4000 gamma relief.

#### IV. GEOCHEMICAL ORIENTATION SURVEY

The object of this orientation survey was to find out the extension of the discovery zone, locale 1 trench 1 along with the extent of the alteration zones, their metal content, and to locate drill targets.

A total of 95 geochemical samples were collected and send to NAL laboratory of Whitehorse, YT. with cheque and duplicate samples send to Chemex of Vancouver and to Loring Labs of Calgary. Assays were done for gold-silver assay on one assay ton or fraction of, on -80 or -100 mesh of fines pulverized samples.

Selected samples of rock specimen and soils were send for 32 elements I.C.P. analysis to provide basis for lithological correlation.

Exploration pits and small trenches were blasted and cleared out, totaling approximately 43 cubic yards of rocks and debris.

Chemical characteristics of the Olympic Dam copper-gold mineralization and intrusive/breccias related mineralization are conducive of a geochemical exploration search within similar stratigraphy. Trace element zoning related to gold-silver ore, cobalt, copper and massive sulphide ore stratigraphy, is desirable to evaluate the economical importance of the property.

##### 1. Scree Slope Soil Geochemical Enrichment

Mechanical and chemical erosion of bedrock results in metal enrichment in talus deposits. Mechanical erosion along fractured surfaces or vein which contain disseminated ore minerals, releases metal rich fines which are accumulated within sand, silt, and clay size fraction of talus deposits.

Talus anomalies genesis may also reflect hydromorphic processes. Water flowing along bedrock surfaces or through talus fans may dissolve ore minerals, subsequently depositing metals where conditions are favorable, such as at the base of slope. Talus fines are collected at regularly spaced intervals of 12.5 meters or 25 meters. Principal objectives of the survey are the assessment of mineral potential of the claim region and delineating areas which justify subsequent detailed exploration work. Talus fine surveys are not equivalent to soil surveys. However talus fines are derived from bedrock lying 50 to 400 meters or more upslope.

# GEOCHEMICAL SOIL & ROCK COVERAGE



*Ra 1 to RA 6.*  
*X*

*X RA 60/61*

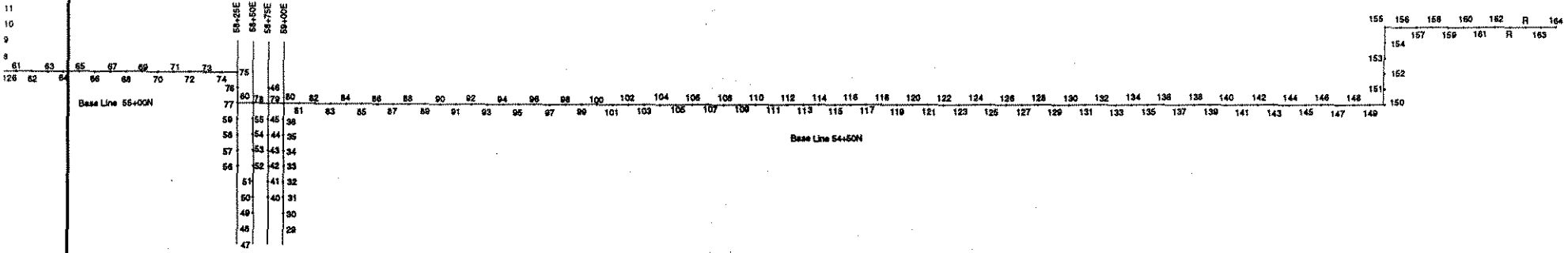


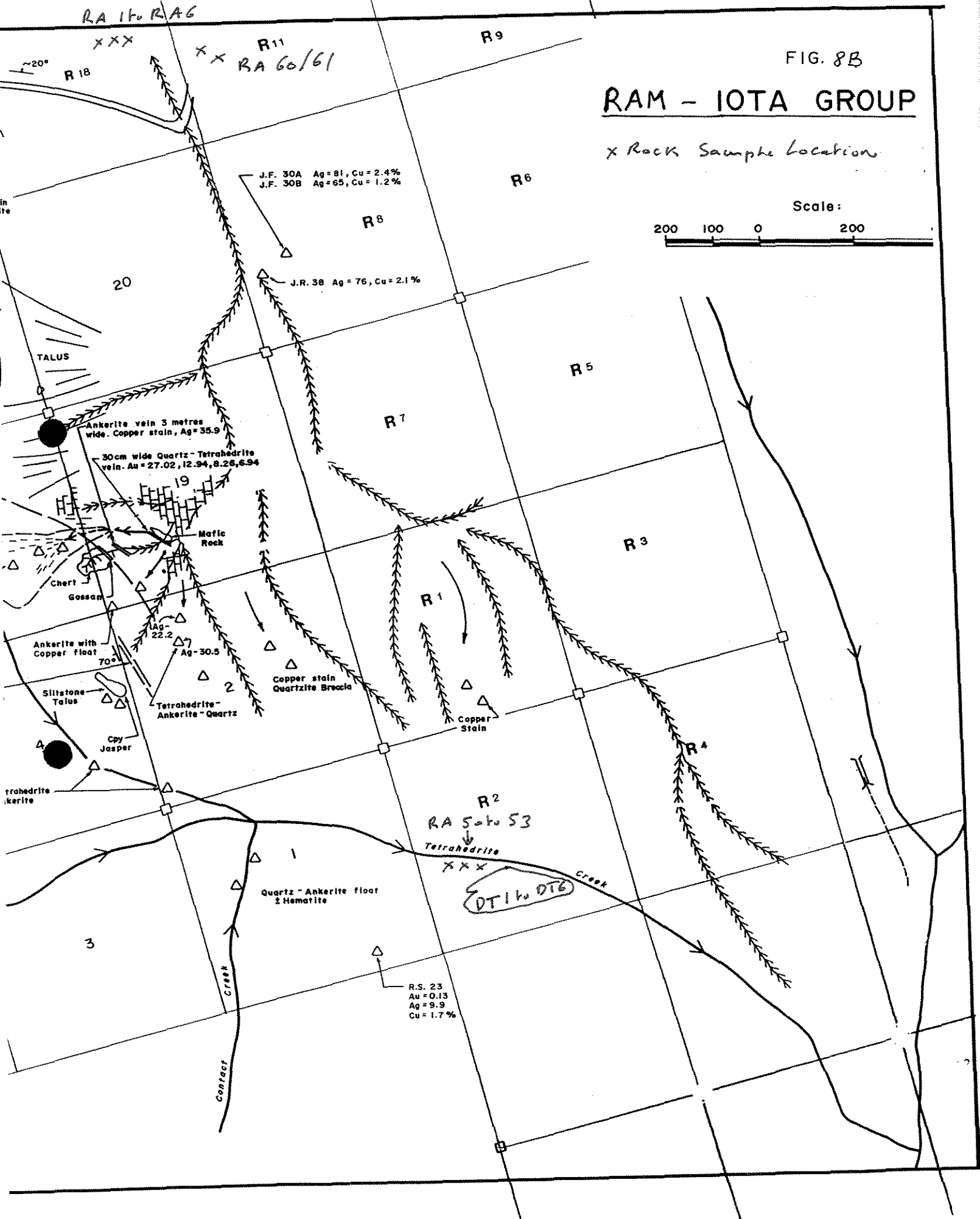
Fig. 08

FIG. 8B

# RAM - IOTA GROUP

x Rock Sample Location

Scale:



### **a ) Soil sample collection and interpretation**

Talus fines mixed with rocks are taken from each location, 12.5 meters intervals, from a hole of various size, then put through a plastic strainer for sifting. 1/4 of one inch material is collected through this procedure and put into a standard craft envelop provided by the assay labs.

An East-West base line of over 2000 meters along the IOTA fault has been systematically soil sampled resulting in several gold / copper / antimony / bithmuth / arsenic / potassium zones of enrichment

### **b ) Interpretation**

Scree slope samples collected along "B-C" horizon are a mixed reflection, mainly in the case of gold, of solifluction enrichment. It has its sources in nearby mineralized sediment, shears, quartz veins, etc. It is therefore not representative of the true gold content. Fire assay values indicate a background threshold of 8-20 ppb with +20-80 ppb being anomalous and as high as 500 to 1270 ppb over mineralized bedrock with 2oz. gold on average.

Buried bedrock units often including an entire stratigraphical section which will not be represented by the top surface samples. It explains the erratic nature of many single point anomalies, but is indicative of certain minimum of metal content. It also implies that the area of gold enrichment is often larger than the one analytically detected.

Isolated gold values in slope soil samples range from 22ppb to 60ppb and rarely correspond to other trace element enrichment. Therefore, each high gold value require a ground examination with resampling. Silver values below 2ppm are not reliable unless corresponding to base metal enrichment or other suite of element increase. Useful repeat fire assay silver results of significance must be above 0.1oz./ton silver.

Most soil samples have a calcium level of 10% to 17%, an iron content of 1% to 4%, and a magnesium concentration of 5% to 8% extending up to 11%.

Trace element analysis outlined several weak but promising areas of interests. Precious metal enrichment appears related to several igneous sources as indicated by the presence of potassium and cobalt / nickel values.



# SOIL SAMPLE LOCATION

## IOTA FAULT 106C-14 LOCALE 2

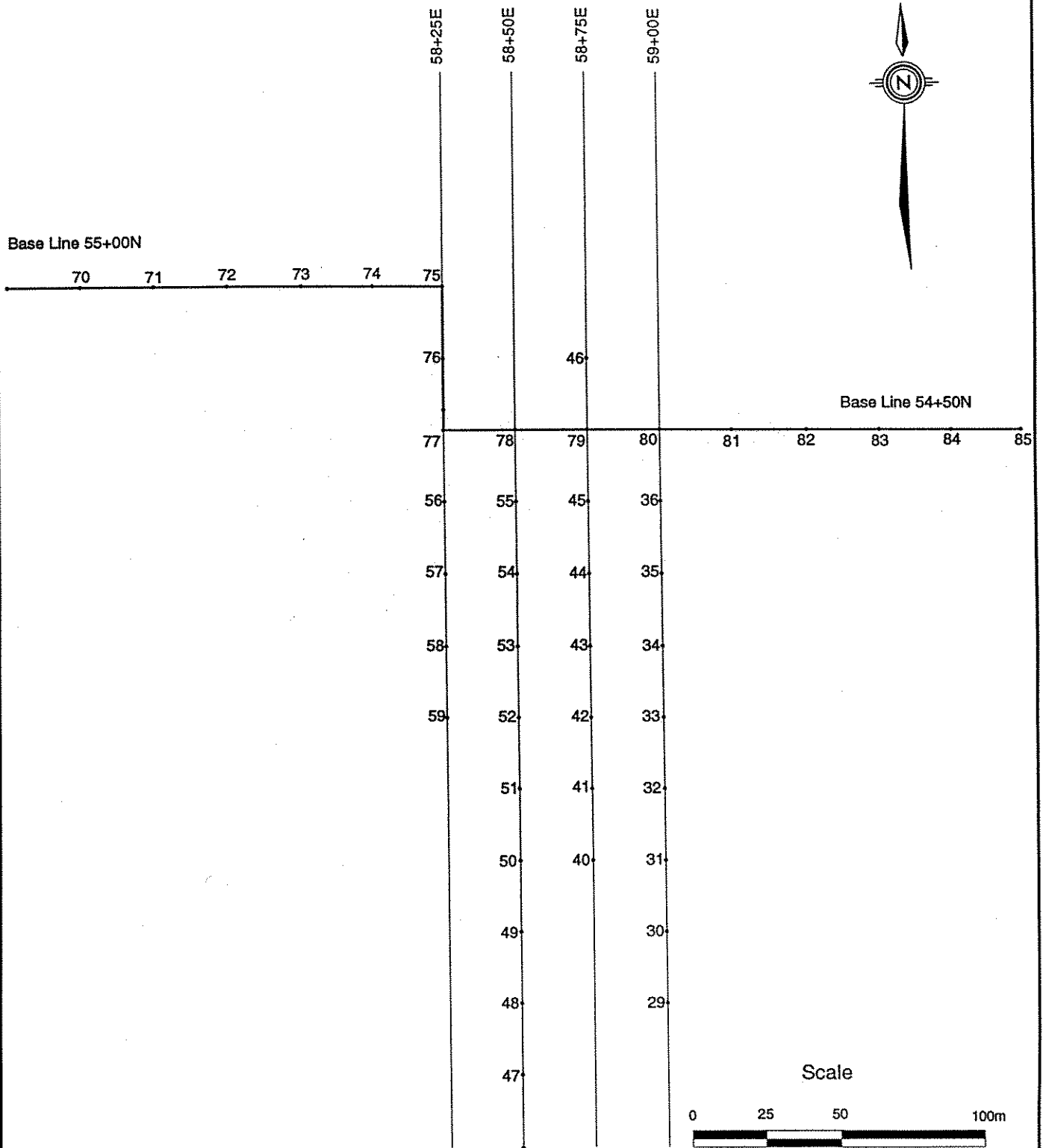


FIG. 09

Tetok

09 3509

RAM

## 2 ) Rock Lithochemistry

Two distinct areas have been investigate and sampled for bedrock metal evaluation:

### a) Locale 2 On The Iota Fault Structure

#### Samples Ra-01 to Ra-06, Loring Lab Analysis

High gold value in quartz veins, 1.8 to 3.0 oz./ton with or without sulphides. 60% sulphides carry 1.9 oz. gold as for 10% sulphides carrying 3.08 oz. gold. The fractures in quartz and the visible gold appears to account for the discrepancy.

Sample Ra-06 Wall rock of altered diorite with lead-zinc enrichment, high gold background of 0.02oz./ton, 4.17 % K, 5 % Fe, Ni, As, Sb, Bi enrichment and magnesium 2 %.

Sample Ra-02 Wall rock composed of very altered intrusive, could be same as above, gold 0.005oz./ton, 2.8% K, 7.3% Fe. Ni, As, Sb, Bi enrichment, Ca 2% and Mg 8%.

Samples Ra-60-61, Quartz vein in iron carbonate sediments, silver 52oz/ton, gold 0.26oz./ton, Cu 8%, Sb 2.8%, Bi, Hg and Fe 8%.

Commercial grade of gold is either coarse, 90% in -35 + 150 mesh, in quartz veins or associated to lead-zinc with copper and often antimony.

### b) Tetrahedrite Creek Gossan Zone

A series of iron-manganese rich gossans along the creek bed are of interest since it was mapped as part of the Dolores Breccia flow and appears to be related to a Granodiorite intrusion.

#### Samples Ra-51 to 56, Nal/Ipl Labs Analysis

Sample Ra-50-51 are brecciated limestone contact with North end of gossan zone and has 9.7% copper with 10% iron, 4% high cobalt with 6% As, and 13% Bi with some antimony.



Samples Ra-52 & 52B represent a shear zone rich in cobalt (6.9-7.5%), Au (0.3oz./ton), Bi (15-27%), Mg (2-4%), As (11-12%) with base metal enrichment.

Samples Ra-53 & 53B main cobaltite shear zone (6.2-8%). Au (0.4oz./ton), Bi (22-29%), Sb (1.3-1.7%), Fe (10-13%) with nickel and magnesium.

Duplicate analysis give reasonable repeat values, however bithmuth high value must be verified by a gravimetrick method.

c) Multi-element correlation must be attempted on a large suite of sample since there are several differentiation patterns emerging which would help in separating the various ore phases. Soil and rock results were instrumental in finding new ore grade material and to give valuable information on the nature of ore forming process.

Assays results from rock outcrop samples indicated sub-economical to high grade ore values ranging from 0.05 to 0.30 oz. gold / ton to 1.9 to 3.0 oz. gold / ton average.



## V. RESULTS EVALUATION

From 1980 to 1995, the initial discovery outcrops have been trenched with talus soil and rock sampled on a grid pattern and tested for geophysical magnetic & VLF-E.M. responses. Geophysical coverage consisting of 1,150 meters detailed ground magnetic reflected a sedimentary low contrast environment and should be restricted in breccia areas with a magnetic and VLF-EM survey.

E.M. conductors indicated the existence of several vein bearing high gold & silver values sometimes associated to massive sulphides. The results indicated the presence of multiple zones of mineralization to the east for 3 kilometers, along the Iota fault alteration zone.

Geochemical orientation sampling provided valuable data as to locate and trace areas with metal enrichment and to evaluate the importance of each zone.

Commercial grade of copper (+2%), cobalt (+1%) associated with gold & silver and/or to antimony, have been found in quantity large enough to justify drilling and a large scale exploration sampling followed by some metallurgical evaluation.

Gold values from 0.3 to 0.6 oz., with copper (1% to 9%) are associated to poly-metallic elements; mainly antimony and lead. Gold value are not always consistent pending on the location, quartz flooding & alteration.

Gold values of 0.5 to 0.7oz. are related to 15% iron in quartz veins on the Iota structure and at iron breccia contact located above the Tetrahedrite creek.

When iron is in the low 2% range, gold values are in the 0.7oz range. Frequently gold is found with 3% copper in a polymetallic matrix. Exceptional gold value are found in shear zones and intrusive contact with gold values in the +1.0 oz. range when copper drops to the 0.8% range

The Tetrahedrite Creek gossans host several small commercial showings of cobalt-copper-gold mineralization indicating the possibility of a larger mass of ore.



## VI. AFFIDAVIT OF EXPENDITURES

Some 25 man days were expended on this exploration project in 1995. The following list represents invoice expenditures paid for the exploration program conducted on the Dolores-Ram properties in 1995.

### A. Exploration Expenses Per Claim Grouping

#### 1. RAM 3, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 19 & 20

\$ 1,600.00 WORK to be filled, which started August 04, 1995.

13 man days x \$ 560/per deum	\$ 7,280.00
Helicopter & plane / grouping	4,442.18
Assays for 80 samples	<u>1,640.00</u>
Total Expenditure Claimed : \$ 13,362.00	

#### 2. RAM 1, 2, 4, 13, 21, 22, 23, 24, 27, 28, 29, 30, 37, 38, 38 & 40 .

\$ 1,600 WORK to be filled which started Sept. 23, 1995.

12 man days x \$ 560/per deum	\$ 6,720.00
Helicopter & plane / grouping	5,192.18
Assays for 15 samples	<u>307.50</u>
Total Expenditure Claimed : \$ 12,219.68	

### B. ZELON EXPLORATION EXPENSES From July 22 to October 02 , 1995

#### a) Cost of Assaying

An average cost of \$ 20.50 / sample has been used

#### b) Field Personnel Salaries, Transportation, and Camp Expenses

The total employees remuneration together with mobilization costs, camp costs, geophysical equipment costs were summarized, and then divided by 25; it represents the best estimate of the actual man days spent by Zelon personnel on this project. This gives us a per deum rate of \$ 560.00.

Helicopter costs as per actual billings and related cost as jet fuel expenses were added to float plane costs. The total was prorated to each claim groupings.



Each claim, for the cost of work performed on any claim group, represents a combination of a per diem rate as well the cost of flying the men to camp. Hence, whether the crew was prospecting, blasting, performing geophysics/geochemical surveys or mapping, they are charged at the lowest rate.

## VII. CONCLUSION AND RECOMMENDATIONS

The DOLORES-RAM project covers two large areas with numerous copper, gold, cobalt, hematite showings with potential for several large deposits. Exploration must incorporate a geophysical VLF-EM survey to tie down promising prospects followed by detailed ground work to outline target areas with potential for large conductor and massif metal deposition.

Geochemical talus sampling is useful in locating areas of interest and should be extended to the all claim block, followed by detailed geological mapping and trenching and petrographic work.

Trenching and drilling on economically viable showings must be followed by large bulk sampling: 100 pound to 1 ton per site for metallurgical testing.

**A two stage exploration program is recommended to test the economic value of each property:**

**Phase I            Surface exploration and mapping, 60 days, \$200,000**  
To evaluate the present land holdings in terms of stratigraphy, geology and potential tonnage along with geophysical coverage. A ground survey must look at any extension and zonal distribution by trenching and an extensive rock sampling program.

**Phase II           Helicopter Geophysical EM, 2 weeks, \$95,000**  
To outline size and nature of buried conductors in perspective of known showings and their commercial significance.

Respectively submitted,



March 02, 1995  
VALOR VENTURES Ltd.  
VANCOUVER, B.C.

John H. Hajek, Project Manager.

## DOLORES CREEK; 106C13-14

### GEOLOGICAL LEGEND

#### QUATERNARY

**Q** Alluvium, colluvium and glacial deposits

#### UPPER PROTERZOIC to LOWER PALEZOIC

**Peu** Rusty to grey weathering quartz arenite, pinkish orange & grey weathering white carbonate; pebble conglomerate; siltstone & shale

#### HADRYNIAN

##### Rapitan Group or Windermere Supergroup

5 formations, total 2,500m Ps, Pk, Pt

**Hr** Conglomerate and breccia

**Hr2** Conglomerate: well-rounded dolostone cobbles in a silty matrix

**Hr1** Breccia: angular slate and dolostone clasts in a clast supported breccia

##### Angular unconformity

##### Pinguicula Group,

**Hc2** miogeoclinal to platformal PPA to PP

**Hc1** Dolostone and limestone: grey weathering, resistant, massive

**Hs** Dolostone: buff weathering, resistant, medium bedded

Slate: maroon and grey slate, shale and siltstone

##### unconformity, Racklan Orogeny

#### HELIKIAN

##### WERNECKE SUPERGROUP

##### 1.) Gillespie Lake Group PGL & PGLB

**Hc5** Pebbly dolostone: orange weathering, pebbly or sandy dolostone

**Hc4** Grey dolostone: grey weathering, grey, massive dolostone

**Hc3** Laminated dolostone: laminated- to medium-bedded, buff weathering, grey to white dolostone with minor or no argillite laminae; stromatolites and ripples abundant

**Hc2** Thin bedded dolostone & argillite: buff- to orange-weathering, grey dolostone with abundant black argillite, thinly bedded

**Hc1** Massive dolostone: buff weathering, grey or white dolostone, thick bedded to massive

## 2.) Quartet Lake Group PQ

**Hsc** Slate, siltstone and argillite: dark grey; minor limy beds

## 3.) Fairchild Lake Group PFL

**Hc** Siltstone with minor carbonate interbed

# HADRYNIAN AND/OR HELIKIAN

## Intrusive rocks

**+Kd+** Diorite and dolerite: brown-weathering, medium grained, altered to chlorite and carbonate, locally pegmatitic, Pd..

**Km** Mafic dyke: dark green to greenish grey weathering, dark green, fine- to medium-grained, plagioclase-pyroxene diorite

**Wb** Wernecke Breccia, grey, green and washed red, hematitic & dolomitic breccia with related metasomized & bleached contry rocks.

**++** Intrusive rocks, pegmatite, quartz syenite stock, Pd.

## ALTERATION

**--** Iron carbonate alteration: injection of iron to carbonate which produced a reddish-brown colour on weathering

**L** Recrystallization: recrystallization of dolostone and limestone to massive crystalline dolostone

**Si** Silicification: pervasive and/or veinlet silicification

\* Modified after Blusson 1974, Delaney & O.F. 1995-6



## STATEMENT OF QUALIFICATION

I, John Henry Hajek of 4440 Regency Place, West Vancouver, B.C. do hereby declare that I am a professional geochemist and geologist practicing since 1969.

1. My experience includes services as an exploration Geochemist with Rio Tinto of Vancouver, B.C. 1968-72.  
Since 1973, I have conducted and directed property examinations and exploration programs on behalf of companies as a geochemist and geologist in the employment of ZELON ENTERPRISES LTD. VALOR VENTURES LTD. & ZELON CHEMICALS LTD. of which I am part owner.
2. I have practiced continuously as an exploration geochemist - geologist since 1969.
3. This report is based on result of work carried out on the RAM claims, 106 C14, Y. T. under my direct supervision during July 28 to October 06, 1995.
4. Zelon Enterprises Ltd./Valor Ventures Ltd./ Zelon Chemicals Ltd  
1050-1185 W. Georgia  
Vancouver, B.C.

John H, Hajek  
Geochemist/Mining Consultant



March 06, 1995

VANCOUVER, B.C.



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## APPENDIX A : ANALYTICAL RESULTS

- 1995 Field Sample Description
- 1995 Assays & Geochemical Analysis

NAL Invoice	30/10/95	# WO 15443
“	“	16/10/95 # WO 15382
“	“	06/10/95 # WO 15370
“	“	03/11/95 # WO 15444

IPL Invoice	01/11/95	# 95 J 2406
“	26/09/95	# 95 I 1901
“	26/09/95	# 95 I 1902

LORING LAB 22/09/95 # 37678  
LORING LAB 22/09/95 # 37678-1

GEOCHEMICAL DATA SHEET

PROJECT: RAM - TETRAHEDRITE  
 NTS: 106 C-14

ZELON

DATE: August 5/95  
 SAMPLER: DH & DT.

SAMPLE NO.	TYPE	pH	T ° C	DEPTH	ORIG.	COLOR	TEXT	HOR.	NOTES
DT-1-95	R	6" of Mineralization.							TETRAHEDRITE creek
DT-2-95	R	35"	wide	massive	Breccia/GOSSAN.				+ 100 feet NORTH.
DT-3-95	R	15"	wide						+ 500 feet NORTH.
DT-4-95	R							at 960' + 100 feet WEST	
DT-5-95	R	24"	cpy.	Flant.					+ 50 feet / Rand.
DT-6-95	R	6 meters Cobalt outcrop, Copper minerals.							at 4300' GOSSAN-creek
DT-7-95	R	25'	wide.	GOSSAN-	Cobalt Bloom.				high grade Sulphide
DT-8-95	R.	75'	wide	GOSSAN.					Sulphide / GOSSAN.
DT-15-95	R	40'	wide	GOSSAN-	cpy - Sulphides				WALL ROCK
DT-16-95	R.	50'	wide	GOSSAN-	cpy				1/4 Mineralized / Carbonate.

GEOCHEMICAL DATA SHEET

PROJECT: RAM.  
 NTS: 106C-14

ZELON

DATE: August 16/95  
 SAMPLER: T.H.

SAMPLE NO.	TYPE	pH	T ° C	DEPTH	ORIG.	COLOR	TEXT	HOR.	NOTES
RA-1-95H	R	1/10	gabena.	Fragment					Quartz Vein / Dolomite
RA-2-95JH	R	<del>24%</del>	<del>quartz</del>	<del>metre</del>	<del>Basalt/Scot.</del>				altered intrusive.
RA-3-95	R	1/4	quartz.	Wall rock	SL shale / Scol.				WALL ROCK / GOSSAN
RA-4-95	R	60%	quartz	& Sulphides	fractures				40%
RA-5-95	R	10%	Sulphides	white	quartz + metallics				
RA-6-95	R.	White	Sulphides	py	altered Diorite / T.				WALL ROCK INTRUSIVE.

BEST ATTAINABLE  
 IMAGE

Project Jota-1RAM  
 Map 106 C-14

GEOCHEMICAL DATA SHEET  
 Z E L O N

Date 8/8/95  
 Sampler \_\_\_\_\_

Sample No.	TYP	pH	t°F	DEPTH	ORIG.	COL	TEXT	HOR	NOTES
PM-72	2.			2'-5"	2	4-2	1-B	BC	57+50E/55+00N
PM-73	2.			1'-4"	2.	3-1	2-B	BC	57+75E/55+00N
PM-74	2.			4'-6"	2	4-1	1-B	BC	58+00E/55+00N
PM-75	2.			4'-8"	2.	3-1	2-A	BC	58+25E/55+00N
PM-76	2.			4'-6"	2.	4-1	2-B	BC	58+25E/54+75N
PM-77	2.			0'-1"	2	4-1	4-C	BC	58+25E/54+50N

Project RAM  
 Map 106 C14

GEOCHEMICAL DATA SHEET  
 Z E L O N

Date 8/17/95  
 Sampler PM

Sample No.	TYP	pH	t°F	DEPTH	ORIG.	COL	TEXT	HOR	NOTES
PM-29				1'-6"	2	4-1	2-C	BC	52+25N/59+00E
PM-30				1'-6"	2	4-2	2-C	BC	52+50N/59+00E
PM-31				1'-6"	2	3-2	2-B	BC	52+75N/59+00E
PM-32				1'-6"	2	<del>3-2</del>	2-C	BC	53+00N/59+00E
PM-33				1'-6"	2	4-2	2-B	BC	53+25N/59+00E
PM-34				1'-6"	2	<del>4-1</del>	2-C	BC	53+50N/59+00E
PM-35				1'-6"	2	4-1	2-B	BC	53+75N/59+00E
PM-36				1'-6"	2	4-1	2-B	BC	54+25N/59+00E
PM-37				1'-4"	2	2-2	2-B	BC	52+25N/58+75E
PM-38				1'-6"	2	2-1	4-C	BC	52+50N/58+75E
PM-39				1'-6"	2	4-2	2-B	BC	52+75N/58+75E

Project RAM  
 Map 106 C14

GEOCHEMICAL DATA SHEET  
 Z E L O N

Date 8/17/95  
 Sampler PM

Sample No.	TYP	pH	t°F	DEPTH	ORIG.	COL	TEXT	HOR	NOTES
PM-40				1'-6"	2	3-3	1-C	BC	53+00N/58+75E
PM-41				1'-6"	2	3-2	1-C	BC	53+25N/58+75E
PM-42				1'-6"	2	4-1	2-C	BC	53+50N/58+75E
PM-43				1'-6"	2	3-2	1-C	BC	53+75N/58+75E
PM-44				1'-6"	2	2-2	1-C	BC	54+00N/58+75E
PM-45				1'-7"	2	4-2	1-C	BC	54+25N/58+75E
PM-46				1'-5"	2	3-2	1-B	BC	54+75N/58+75E
PM-47				1'-6"	2	3-2	1-C	BC	52+75N/58+50E
PM-48				1'-6"	2	3-2	1-C	BC	53+00N/58+50E
PM-49				1'-6"	2	4-1	1-C	BC	53+25N/58+50E
PM-50				1'-5"	2	3-2	3-B	BC	53+50N/58+50E

Project RAM  
 Map 106 C14

GEOCHEMICAL DATA SHEET  
 Z E L O N

Date 8/17/95  
 Sampler PM

Sample No.	TYP	pH	t°F	DEPTH	ORIG.	COL	TEXT	HOR	NOTES
PM-51				1'-6"	2	4-2	1-C	BC	53+75N/58+50E
PM-52				1'-5"	2	3-3	2-B	BC	54+00N/58+50E
PM-53				1'-6"	2	3-3	4-B	BC	54+25N/58+50E
PM-54				1'-6"	2	3-2	2-C	BC	54+75N/58+50E
PM-55				1'-6"	2	4-2	4-B	BC	55+00N/58+50E
PM-56				1'-7"	2	4-2	2-B	BC	53+25N/58+25E
PM-57				1'-6"	2	4-1	3-B	BC	53+50N/58+25E
PM-58				1'-6"	2	3-3	1-C	BC	54+00N/58+25E
PM-59				1'-6"	2	3-3	2-B	BC	54+25N/58+25E
PM-60				1'-6"	2	3-2	1-C	BC	54+60N/58+25E

Project Tota/RAM  
 Map 106 C-14

GEOCHEMICAL DATA SHEET  
 Z E L O N

Date 8/9/95  
 Sampler PM

Sample No.	TYP	pH	t°F	DEPTH	ORIG.	COL	TEXT	HOR	NOTES
PM-78	2			1"-4"	2	3-2	4-C	BC	58+50E/59+50N
PM-79	2			6"-2"	2	3-2	4-C	BC	58+75E/54+50N
PM-80	2			1"-3"	2	3-1	4-C	BC	59+00E/54+50N
PM-81	2			0"-3½"	2	4-2	2-B	BC	59+25E/54+50N
PM-82	2			1"-4"	2	3-1	2-B	BC	59+50E/54+50N
PM-83	2			7"-4"	2	4-1	2-B	BC	59+75E/59+50N
PM-84	2			1"-4"	2	4-1	2-B	BC	60+00E/54+50N
PM-85	2			1"-3"	2	4-1	2-B	BC	60+25E/59+50N
PM-86	2			2"-5"	2	3-1	2-B	BC	60+50E/54+50N
PM-87	2			2"-5"	2	3-2	4-C	BC	60+75E/54+50N
PM-88	2			1"-6"	2	8-2	1-C	BC	61+00E/54+50N

Project Tota/RAM  
 Map 106 C-14

GEOCHEMICAL DATA SHEET  
 Z E L O N

Date 8/9/95  
 Sampler PM

Sample No.	TYP	pH	t°F	DEPTH	ORIG.	COL	TEXT	HOR	NOTES
PM-89	2			2"-5"	2	2-2	1-C	BC	61+25E/59+50N
PM-90	2			1"-3"	2	3-3	4-B	BC	61+75E/54+50N
PM-91	2			1"-3"	2	3-2	4-B	BC	62+00E/54+50N
PM-92	2			1"-3"	2	3-1	2-C	BC	62+25E/54+50N
PM-93	2			6"-2"	2	3-3	3-B	BC	62+50E/54+50N
PM-94	2			1"-6"	2	3-1	3-B	BC	62+75E/54+50N
PM-95	2			1"-4"	2	3-2	3-B	BC	63+00E/54+50N
PM-96	2			0"-2"	2	3-2	2-C	BC	63+25E/54+50N
PM-97	2			0"-2"	2	3-1	4-B	BC	63+50E/54+50N
PM-98	2			1"-4"	2	3-1	2-B	BC	63+75E/54+50N
PM-99	2			1"-3"	2	2-2	2-B	BC	64+00E/54+50N

Project Fota/RAM  
 Map 106 C-14

GEOCHEMICAL DATA SHEET  
 Z E L O N

Date 8/9/95  
 Sampler PM

Sample No.	TYP	pH	t <sup>°</sup> F	DEPTH	ORIG.	COL	TEXT	HOR	NOTES
PM-100	2			1'-3"	<del>2-2</del>	<del>3-1</del>	2-A	BC	64+25E/54+50N
PM-101	2			1'-4"	2	3-2	2-B	BC	64+50E/54+50N
PM-102	2			2'-6"	2	3-1	2-A	BC	64+75E/54+50N
PM-103	2			1'-4"	2	3-1	2-A	BC	65+00E/54+50N
PM-104	2			2'-5"	2	<del>3-2</del>	2-B	BC	65+25E/54+50N

Project Fota/RAM  
 Map 106 C-14

GEOCHEMICAL DATA SHEET  
 Z E L O N

Date 8/10/95  
 Sampler PM

Sample No.	TYP	pH	t <sup>°</sup> F	DEPTH	ORIG.	COL	TEXT	HOR	NOTES
PM-105	2			1'-4"	2	3-3	2-B	BC	65+50E/54+50N
PM-106	2			0'-3"	2	3-1	3-B	BC	65+75E/54+50N
PM-107	2			1'-4"	2	4-1	2-B	BC	66+00E/54+50N
PM-108	2			1'-6"	2	3-2	2-C	BC	66+25E/54+50N
PM-109	2			1'-6"	2	3-3	3-B	BC	66+50E/54+50N
PM-110	2			1'-4"	2	3-3	2-B	BC	66+75E/54+50N
PM-111	2			1'-7"	2	3-2	2-B	BC	67+00E/54+50N
PM-112	2			2'-4"	2	3-2	2-B	BC	67+25E/54+50N
PM-113	2			1'-6"	2	4-2	2-A	BC	67+50E/54+50N
PM-114	2			1'-7"	2	3-3	3-B	BC	67+75E/54+50N
PM-115	2			1'-9"	2	3-1	2-B	BC	68+00E/54+50

Project Jota IRAM  
 Map 106 C-14

GEOCHEMICAL DATA SHEET  
 Z E L O N

Date 8/10/95  
 Sampler PM

Sample No.	TYP	pH	t°F	DEPTH	ORIG.	COL	TEXT	HOR	NOTES
PM-116	2.			2'-6"	2.	3-1	2-A	BC	68+25E/54+50N.
PM-117	2.			1'-4"	2.	2-1	2-B	BC	52+75E/55+50N.
PM-118	2.			2'-6"	2.	2-2	3-B	BC	53+00E/55+50N.
PM-119	2.			1'-4"	2.	3-1	3-B	BC	53+00E/55+25N.
PM-120	2.			1'-4"	2.	3-2	3-A	BC	53+00E/55+00N.
PM-121	2.			1'-4"	2.	4-2	3-B	BC	53+25E/55+00N.
PM-122	2.			1'-5"	2.	3-1	2-B	BC	53+50E/55+00N.
PM-123	2.			1'-7"	2.	3-2	2-C	BC	53+75E/55+00N.
PM-124	2.			2'-6"	2.	3-1	2-C	BC	54+00E/55+00N.
PM-125	2.			2'-6"	2.	3-2	2-C	BC	54+25E/55+00N.
PM-126	2.			1'-7"	2.	4-1	2-C	BC	54+50E/55+00N.

Project Jota IRAM  
 Map 106 C-14

GEOCHEMICAL DATA SHEET  
 Z E L O N

Date 8/11/95  
 Sampler PM

Sample No.	TYP	pH	t°F	DEPTH	ORIG.	COL	TEXT	HOR	NOTES
PM-127	2.			0'-6"	2.	1-1	3-B	BC	68+50E/54+50N.
PM-128	2.			1'-4"	2.	3-1	3-B	BC	68+75E/54+50N.
PM-129	2.			2'-6"	2.	2-2	2-C	BC	69+25E/54+50N.
PM-130	2.			1'-7"	2.	3-1	2-B	BC	69+00E/54+50N.
PM-131	2.			2'-10"	2.	3-1	3-B	BC	69+50E/54+50N.
PM-132	2.			1'-9"	2.	2-2	2-C	BC	69+75E/54+50N.
PM-133	2.			1'-7"	2.	4-2	3-B	BC	70+00E/54+50N.
PM-134	2.			2'-6"	2.	4-2	3-B	BC	70+25E/54+50N.
PM-135	2.			1'-7"	2.	4-3	2-C	BC	70+50E/54+50N.
PM-136	2.			1'-7"	2.	4-3	3-B	BC	70+75E/54+50N.
PM-137				1'-12"	2.	4-2	2-C	BC	71+00E/54+50N.

To: ZELON ENTERPRISES LTD.  
 4440 Regency Place  
 West Vancouver, B.C.  
 V7W 1B5  
 ATTN: John Hajek

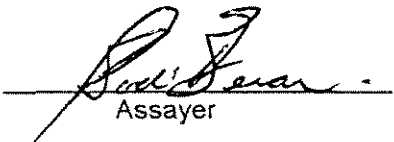


File No : 37678  
 Date : September 22, 1995  
 Samples : Rock Chip  
 Project :  
 P.O.#

## Certificate of Assay Loring Laboratories Ltd.

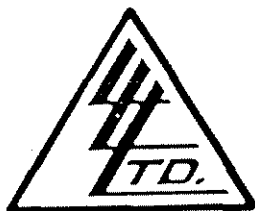
Sample No.	OZ./TON GOLD	OZ./TON SILVER
"Assay Analysis"		
DT- 5-95	0.006	0.05
DT- 6-95	0.065	2.56
DT- 7-95	0.188	1.45
DT- 8-95	0.013	0.43
DT-15-95	0.009	0.05
DT-16-95	0.008	<0.01
KE-81-95	0.007	<0.01
Ra-1-95 JH	1.814	0.78
Ra-2-95 JH	0.005	<0.01
Ra-3-95 JH	0.005	0.01
Ra-4-95 JH	1.957	1.10
Ra-5-95 JH	3.083	1.61
Ra-6-95 JH	0.022	0.27
ICP Results to Follow		

I HEREBY CERTIFY that the above results are those assays made by me upon the herein described samples :

  
 Assayer

Rejects and pulps are retained for one month unless specific arrangements are made in advance.

*M*



# LORING LABORATORIES LTD.

629 Beaverdam Rd. N.E.  
Calgary, Alberta T2K 4W7

Tel: (403) 274-2777  
Fax: (403) 275-0541

## 35 ELEMENT ICP ANALYSIS

TO: ZELON ENTERPRISES LTD.

FILE NO.: 37678-1

CC: DIAMOND EXPLORATIONS LTD.

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
DH-1-95																																					
DH-2-95																																					
DH-3-95																																					
DH-4-95																																					
DH-5-95																																					
DH-6-95																																					
DH-7-95																																					
DH-9-95																																					
RE DH-9																																					
DH-10-9																																					
DH-11-9																																					
DH-12-9																																					
DT-5-95																																					
DT-6-95	<2	15809	2337	2020	93.1	554	9361	12962	26.58	2306	24	<4	<2	13	7.9	7113	36350	37	.11	.021	2	<2	5.54	45	<.01	.27	.01	.08	<4	<2	<2	4	<2	9	<1		
DT-7-95	<2	12652	5387	1222	46.9	2651	28814	6171	12.36	9407	43	18	<2	3	17.2	18352	29464	31	.08	.013	<2	<2	1.44	51	<.01	.03	.01	<.01	<4	<2	<2	<2	<2	<1	<1		
DT-8-95	<2	494	1709	99999	10.1	47	161	2394	4.40	115	<10	<4	<2	32	429.4	243	3359	16	10.36	.009	3	76	6.05	20	<.01	.52	.01	.28	5	3	2	8	2	<1	7		
DT-15-95	42	99106	71	3399	9.1	23	56	1157	18.44	36	55	<4	6	67	14.4	35	428	33	1.78	.141	13	97	1.27	20	.08	2.56	.16	2.05	<4	10	<2	8	<2	9	5		
DT-16-95	42	99999	43	803	8.3	22	45	348	18.25	20	65	<4	7	58	7.0	34	298	36	.37	.161	.14	100	.66	17	.11	3.23	.15	2.99	<4	12	<2	7	<2	9	5		
KE-81-95	6	167	189	309	<.5	10	3	312	.87	25	<10	<4	<2	22	1.0	80	26	9	.09	.038	<2	153	.09	406	<.01	.41	.03	.08	<4	2	<2	2	<2	<1	2		
RA-1-95 JH	3	732	19178	71328	27.0	31	10	750	2.19	95	<10	53	2	8	237.0	69	94	17	.36	.022	5	205	1.85	95	.05	1.20	.01	.63	<4	22	2	3	3	<1	2		
RA-2-95 JH	<2	735	120	613	1.1	420	62	1288	7.30	423	<10	<4	2	27	1.1	63	114	209	2.05	.102	22	307	8.19	178	.41	4.71	.01	2.87	<4	45	<2	11	<2	<1	30		
RA-3-95 JH	<2	404	367	19170	3.0	44	6	8985	19.90	27	<10	<4	<2	9	40.5	93	57	9	.88	.010	<2	99	7.24	21	<.01	.43	.01	.22	<4	2	2	7	<2	8	4		
RA-4-95 JH	<2	36652	42858	77900	39.9	16	6	1444	3.87	158	<10	117	<2	3	447.1	45563	671	9	.04	.040	<2	258	1.28	9	<.01	.29	.01	.15	<4	2	<2	<2	<2	<1	2		
RA-5-95 JH	<2	23905	44953	99999	47.3	9	4	99	.80	131	<10	25	<2	2	714.2	36773	127	3	.02	.025	<2	285	.06	7	<.01	.08	.01	.02	<4	<2	<2	<2	<2	<1	<1		
RA-6-95 JH	2	461	1413	1936	1.0	327	57	2122	5.79	334	18	<4	3	9	6.7	682	42	271	.33	.140	10	326	2.22	145	.35	7.15	.01	4.17	<4	80	2	10	<2	<1	21		
STANDARD CT	18	50	41	144	5.9	66	30	1181	4.44	40	20	5	39	237	17.6	17	19	108	1.21	.113	39	99	1.22	827	.33	6.97	1.61	1.92	25	44	16	10	6	1	15		

ICP - .250 GRAM SAMPLE IS DIGESTED WITH 10ML HClO4-HNO3-HCl-HF AT 200 DEG. C TO FUMING AND IS DILUTED TO 10 ML WITH DILUTED AQUA REGIA. THIS LEACH IS PARTIAL FOR MAGNETITE, CHROMITE, BARITE, OXIDES OF AL, ZR & MN AND MASSIVE SULFIDE SAMPLES. AS, CR, SB, AU SUBJECT TO LOSS BY VOLATILIZATION DURING HClO4 FUMING.

- SAMPLE TYPE: PULP      Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

06/10/95

Assay Certificate

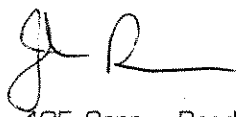
Page 1

Montoro Resources

WO#15370

re: John Hajek

Sample #	(-80) Au ppb	(-80) Ag ppm	(+80) Au oz/ton	(+80) Ag oz/ton
PM 1	<5	<0.1	0.001	<0.10
PM 2	12	0.8	<0.001	<0.10
PM 3	15	<0.1	<0.001	<0.10
PM 4	<5	<0.1	<0.001	<0.10
PM 5	7	0.2	<0.001	0.13
PM 6	12	0.7	<0.001	<0.10
PM 7	26	1.2	<0.001	<0.10
PM 8	8	0.1	0.005	0.13
PM 9	<5	0.4	0.001	<0.10
PM 10	<5	0.3	0.002	<0.10
PM 11	14	1.8	<0.001	<0.10
PM 12	69	1.0	0.001	<0.10
PM 13	13	1.7	0.001	<0.10
PM 14	12	0.1	0.001	0.10
PM 15	43	0.9	0.001	<0.10
PM 16	36	2.8	0.001	0.11
PM 17	<5	<0.1	<0.001	<0.10
PM 18	11	<0.1	<0.001	0.10
PM 19	164	0.4	0.003	<0.10
PM 20	66	1.3	0.001	<0.10
PM 21	10	0.1	0.001	0.10
PM 22	14	0.1	0.001	<0.10
PM 23	78	4.5	0.005	<0.10
PM 24	14	1.2	0.010	<0.10
PM 25	13	1.6	<0.001	0.13
PM 26	47	1.4	0.001	<0.10
PM 27	61	1.0	0.001	0.12
PM 28	32	0.2	0.001	<0.10
PM 29	<5	<0.1	0.001	<0.10
PM 30	<5	<0.1	<0.001	<0.10
PM 31	<5	0.2	<0.001	<0.10
PM 32	<5	1.1	<0.001	<0.10
PM 33	<5	1.5	<0.001	<0.10
PM 34	<5	0.4	<0.001	<0.10

Certified by 



Montoro Resources

WO#15370

re: John Hajek

Sample #	(-80) Au ppb	(-80) Ag ppm	(+80) Au oz/ton	(+80) Ag oz/ton
PM 35	5	<0.1	<0.001	<0.10
PM 36	27	0.3	0.001	<0.10
PM 37	<5	0.1	<0.001	<0.10
PM 38	<5	0.1	<0.001	<0.10
PM 39	<5	0.5	<0.001	<0.10
PM 40	<5	0.7	<0.001	<0.10
PM 41	<5	0.4	0.001	0.10
PM 42	<5	0.5	0.001	<0.10
PM 43	<5	0.1	0.001	0.12
PM 44	<5	0.3	<0.001	<0.10
PM 45	38	0.1	0.002	<0.10
PM 46	<5	<0.1	0.001	<0.10
PM 47	<5	1.0	0.001	<0.10
PM 48	<5	0.4	<0.001	<0.10
PM 49	9	1.1	0.001	<0.10
PM 50	6	1.3	<0.001	<0.10
PM 51	<5	<0.1	<0.001	0.11
PM 52	<5	0.1	<0.001	0.10
PM 53	22	0.1	0.001	<0.10
PM 54	<5	<0.1	<0.001	<0.10
PM 55	<5	<0.1	<0.001	<0.10
PM 56	<5	0.2	<0.001	<0.10
PM 57	60	1.7	0.001	0.13
PM 58	5	0.4	<0.001	0.10

Note: Analyses were done on the -80 mesh fraction of the soil samples and on the pulverized +80 mesh fraction (oversize), as indicated in the headings. The accompanying multi-element ICP analyses were done on the -80 mesh fraction.

Certified by 



Montoro Resources

WO#15382

re: Zelon Chemicals

Sample # Au ppb Ag ppm Au oz/ton Ag oz/ton

Sample #	Au ppb	Ag ppm	Au oz/ton	Ag oz/ton
PM 93	<.5	<.1	<.001	<.10
PM 94	<.5	<.1	<.001	<.10
PM 95	<.5	<.1	<.001	<.10
PM 96	<.5	<.1	0.001	<.10
PM 97	<.5	<.1	<.001	<.10
PM 98	<.5	<.1	<.001	<.10
PM 99	<.5	<.1	<.001	<.10
PM 100	<.5	<.1	<.001	<.10
PM 101	<.5	<.1	<.001	<.10
PM 102	13	<.1	0.001	<.10
PM 103	7	<.1	<.001	<.10
PM 104	9	<.1	<.001	<.10
PM 105	7	<.1	<.001	<.10
PM 106	<.5	<.1	<.001	<.10
PM 107	<.5	<.1	<.001	<.10
PM 108	<.5	<.1	<.001	<.10
PM 109	5	<.1	<.001	<.10
PM 110	5	<.1	<.001	<.10
PM 111	10	<.1	<.001	<.10
PM 112	317	1.1	0.010	<.10
PM 113	1270	5.4	0.036	0.10
PM 114	246	0.3	0.009	<.10
PM 115	90	0.1	0.004	<.10
PM 116	37	0.2	0.001	<.10
PM 117	15	1.7	<.001	<.10
PM 118	12	0.3	0.001	<.10
PM 119	29	0.7	0.001	<.10
PM 120	9	0.1	<.001	<.10
PM 121	54	0.7	0.006	<.10
PM 122	8	<.1	<.001	<.10
PM 123	31	<.1	<.001	<.10
PM 124	<.5	<.1	<.001	<.10
PM 125	<.5	<.1	<.001	<.10
PM 126	12	<.1	<.001	<.10

Certified by



16/10/95

Assay Certificate

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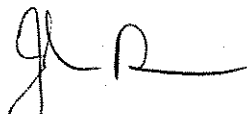
Montoro Resources

WO#15382

re: Zelon Chemicals

Sample #	(-80) Au ppb	(-80) Ag ppm	(+80) Au oz/ton	(+80) Ag oz/ton
PM 127	11	0.1	0.001	<0.10
PM 128	15	<0.1	0.001	<0.10
PM 129	14	0.3	<0.001	<0.10
PM 130	18	0.4	0.001	<0.10
PM 131	18	<0.1	<0.001	<0.10
PM 132	23	3.8	0.001	0.13
PM 133	9	0.4	<0.001	<0.10
PM 134	73	1.0	<0.001	<0.10
PM 135	6	<0.1	0.001	<0.10
PM 136	<5	<0.1	0.001	<0.10
PM 137	16	<0.1	<0.001	<0.10
PM 138	<5	<0.1	<0.001	<0.10
PM 139	6	<0.1	<0.001	<0.10
PM 140	6	<0.1	<0.001	<0.10
PM 141	5	<0.1	<0.001	<0.10
PM 142	6	<0.1	<0.001	<0.10

Certified by




16/10/95

Assay Certificate

Page 1

Montoro Resources

WO#15382

re: Zelon Chemicals

Sample #	(-80) Au ppb	(-80) Ag ppm	(+80) Au oz/ton	(+80) Ag oz/ton
PM 59	<5	<0.1	0.001	<0.10
PM 60	<5	<0.1	0.001	<0.10
PM 61	9	<0.1	0.001	<0.10
PM 62	<5	<0.1	0.002	<0.10
PM 63	<5	<0.1	0.001	<0.10
PM 64	<5	<0.1	0.001	<0.10
PM 65	<5	<0.1	0.003	<0.10
PM 66	5	<0.1	<0.001	<0.10
PM 67	8	<0.1	0.001	<0.10
PM 68	11	<0.1	<0.001	<0.10
PM 69	5	0.4	<0.001	<0.10
PM 70	7	<0.1	<0.001	<0.10
PM 71	5	<0.1	<0.001	<0.10
PM 72	<5	<0.1	0.001	<0.10
PM 73	<5	<0.1	<0.001	<0.10
PM 74	<5	<0.1	<0.001	<0.10
PM 75	<5	<0.1	<0.001	<0.10
PM 76	<5	<0.1	<0.001	<0.10
PM 77	<5	<0.1	<0.001	<0.10
PM 78	<5	0.1	<0.001	<0.10
PM 79	9	<0.1	<0.001	<0.10
PM 80	6	<0.1	<0.001	<0.10
PM 81	38	0.2	0.001	<0.10
PM 82	35	<0.1	0.002	<0.10
PM 83	13	<0.1	0.001	<0.10
PM 84	10	<0.1	0.001	<0.10
PM 85	28	1.1	0.001	<0.10
PM 86	24	0.8	0.001	<0.10
PM 87	64	6.9	0.001	<0.10
PM 88	48	0.6	<0.001	<0.10
PM 89	<5	<0.1	<0.001	<0.10
PM 90	5	<0.1	<0.001	<0.10
PM 91	<5	0.7	<0.001	<0.10
PM 92	8	<0.1	<0.001	<0.10

Certified by




16/10/95

Assay Certificate

Page 2

Montoro Resources

WO#15382

re: Zelon Chemicals

Sample #	(-80) Au ppb	(-80) Ag ppm	(+80) Au oz/ton	(+80) Ag oz/ton
PM 93	<5	<0.1	<0.001	<0.10
PM 94	<5	<0.1	<0.001	<0.10
PM 95	<5	<0.1	<0.001	<0.10
PM 96	<5	<0.1	0.001	<0.10
PM 97	7	<0.1	<0.001	<0.10
PM 98	<5	<0.1	<0.001	<0.10
PM 99	<5	<0.1	<0.001	<0.10
PM 100	<5	<0.1	<0.001	<0.10
PM 101	<5	<0.1	<0.001	<0.10
PM 102	13	<0.1	0.001	<0.10
PM 103	7	<0.1	<0.001	<0.10
PM 104	9	<0.1	<0.001	<0.10
PM 105	7	<0.1	<0.001	<0.10
PM 106	<5	<0.1	<0.001	<0.10
PM 107	<5	<0.1	<0.001	<0.10
PM 108	<5	<0.1	<0.001	<0.10
PM 109	5	<0.1	<0.001	<0.10
PM 110	5	0.1	<0.001	<0.10
PM 111	10	<0.1	<0.001	<0.10
PM 112	317	1.1	0.010	<0.10
PM 113	1270	5.4	0.036	0.10
PM 114	246	0.3	0.009	<0.10
PM 115	90	0.1	0.004	<0.10
PM 116	37	0.2	0.001	<0.10
PM 117	15	1.7	<0.001	<0.10
PM 118	12	0.3	0.001	<0.10
PM 119	29	0.7	0.001	<0.10
PM 120	9	0.1	<0.001	<0.10
PM 121	54	0.7	0.006	<0.10
PM 122	8	<0.1	<0.001	<0.10
PM 123	31	<0.1	<0.001	<0.10
PM 124	<5	<0.1	<0.001	<0.10
PM 125	<5	<0.1	<0.001	<0.10
PM 126	12	<0.1	<0.001	<0.10

Certified by




16/10/95

Assay Certificate

Page 3

Montoro Resources

WO#15382

re: Zelon Chemicals

Sample #	(-80) Au ppb	(-80) Ag ppm	(+80) Au oz/ton	(+80) Ag oz/ton
----------	-----------------	-----------------	--------------------	--------------------

PM 135	<5	<0.1	0.001	<0.10
PM 137	16	<0.1	<0.001	<0.10
PM 138	<5	<0.1	<0.001	<0.10
PM 139	6	<0.1	<0.001	<0.10
PM 140	6	<0.1	<0.001	<0.10
PM 141	5	<0.1	<0.001	<0.10
PM 142	6	<0.1	<0.001	<0.10
PM 143	<5	<0.1	0.001	<0.10
PM 144	5	0.1	<0.001	<0.10
PM 145	7	1.0	0.001	<0.10
PM 146	6	0.1	<0.001	<0.10
PM 147	<5	<0.1	<0.001	<0.10
PM 148	<5	<0.1	<0.001	<0.10
PM 149	6	<0.1	<0.001	<0.10
PM 150	8	0.8	<0.001	<0.10
PM 151	6	0.7	<0.001	<0.10
PM 152	<5	2.1	<0.001	<0.10
PM 153	7	2.2	0.001	<0.10
PM 154	17	1.5	0.001	<0.10
PM 155	23	<0.1	0.001	<0.10
PM 156	12	0.6	<0.001	<0.10
PM 157	12	1.4	<0.001	<0.10
PM 158	6	0.9	<0.001	<0.10
PM 159	5	3.9	<0.001	<0.10
PM 160	<5	0.1	<0.001	<0.10

Certified by




Montoro Resources

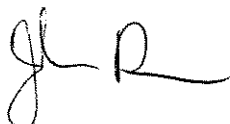
WO#15382

re: Zelon Chemicals

Sample #	(-80) Au ppb	(-80) Ag ppm	(+80) Au oz/ton	(+80) Ag oz/ton
PM 161	<5	0.3	<0.001	<0.10
PM 162	<5	0.2	<0.001	<0.10
PM 163	<5	1.5	<0.001	<0.10
PM 164	<5	0.1	<0.001	<0.10
PM 165	<5	0.2	<0.001	<0.10
PM 166	21	<0.1	0.001	<0.10
PM 167	<5	<0.1	<0.001	<0.10
PM 168	6	0.2	<0.001	<0.10
PM 169	358	7.6	0.013	0.29
PM 170	8	1.1	0.001	<0.10
PM 171	<5	<0.1	<0.001	<0.10
PM 172	342	2.2	0.025	<0.10
PM 173	474	0.7	0.006	<0.10
PM 174	<5	<0.1	<0.001	<0.10

Note: Analyses were done on the -80 mesh fraction of the soil samples and on the pulverized +80 mesh fraction (oversize), as indicated in the headings. The accompanying multi-element ICP analyses were done on the -80 mesh fraction.

Certified by








INTERNATIONAL PLASMA LABORATORY LTD.

# CERTIFICATE OF ANALYSIS

## iPL 95I1901

2036 Columbia Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7898

Client: Northern Analytical Laboratories  
Project: 15370 58 Pulp

iPL: 95I1901

Out: Sep 26, 1995  
In: Sep 19, 1995

Page 1 of 2  
[075914:25:32:59092695]

Section 1 of 1  
Certified BC Assayer: David Chiu

Sample Name	Ag	Cu	Pb	Zn	As	Sb	Hg	Mo	Tl	Bi	Cd	Co	Ni	Ba	W	Cr	V	Mn	La	Sr	Zr	Sc	Ti	Al	Ca	Fe	Mg	K	Na	P
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%
PM 1	<	10	24	32	23	<	<	3	<	<	<	6	13	47	<	5	9	1716	4	40	3	1	<	0.12	13%	1.94	8.19	0.02	0.02	0.04
PM 2	0.4	45	15	58	25	9	<	4	<	<	<	9	19	99	<	8	14	2190	3	75	5	2	<	0.29	12%	2.54	7.61	0.04	0.02	0.04
PM 3	<	20	15	53	20	6	<	2	<	<	1.0	11	34	52	<	20	18	1316	10	75	8	2	<	0.24	7.49	2.11	4.56	0.05	0.02	0.04
PM 4	<	4	11	47	14	<	<	2	<	<	0.3	8	16	30	<	8	11	1309	6	54	7	2	<	0.19	6.92	1.46	3.86	0.05	0.01	0.03
PM 5	0.2	18	18	36	34	<	<	2	<	<	0.3	8	19	22	<	6	8	950	12	31	9	2	<	0.21	5.14	1.31	2.87	0.08	0.01	0.09
PM 6	<	33	18	51	28	10	<	4	<	<	<	7	12	13	<	6	8	2056	4	48	4	1	<	0.13	13%	2.08	7.85	0.04	0.02	0.03
PM 7	1.2	33	40	112	56	14	<	5	<	<	0.5	7	13	12	<	6	7	2666	<	52	2	1	<	0.08	14%	2.44	9.10	0.01	0.02	0.01
PM 8	<	20	16	52	19	<	<	2	<	<	<	8	19	60	<	8	15	1769	3	71	6	1	<	0.18	12%	2.48	7.24	0.03	0.02	0.04
PM 9	<	33	14	49	18	9	<	3	<	<	0.2	6	12	36	<	8	13	1357	3	60	7	2	<	0.17	11%	1.73	6.69	0.03	0.02	0.04
PM 10	<	33	13	34	31	6	<	3	<	<	0.3	9	14	20	<	8	11	1118	6	44	8	2	<	0.20	6.69	1.61	4.00	0.06	0.02	0.06
PM 11	1.6	46	25	74	41	16	<	3	<	<	0.4	12	21	18	<	7	12	1558	7	38	7	2	<	0.21	5.57	1.80	3.30	0.06	0.01	0.06
PM 12	1.0	94	15	97	192	25	<	4	<	<	<	45	272	41	<	64	60	2072	4	33	4	3	<	0.37	8.21	4.60	5.61	0.02	0.01	0.07
PM 13	1.4	33	18	42	43	18	<	4	<	<	<	7	26	11	<	9	12	1983	2	39	3	1	<	0.08	11%	2.02	7.02	0.01	0.02	0.02
PM 14	<	72	15	37	40	7	<	7	<	<	<	54	154	265	<	383	158	1209	10	13	4	20	0.02	3.26	2.24	6.16	6.09	0.05	0.01	0.05
PM 15	0.7	82	39	131	78	16	<	5	<	<	0.2	38	180	24	<	64	50	2473	4	39	5	3	<	0.33	9.87	5.12	6.26	0.03	0.01	0.07
PM 16	2.9	155	43	308	198	75	<	7	<	<	<	28	206	27	<	33	22	1433	15	30	11	2	<	0.17	2.33	4.03	3.44	0.04	0.01	0.10
PM 17	<	37	10	149	27	14	<	5	<	<	<	4	9	41	<	5	4	1318	2	46	2	<	<	0.09	16%	1.20	11%	0.01	0.02	0.01
PM 18	<	19	9	29	17	9	<	6	<	<	<	6	13	25	<	14	12	2140	<	59	1	1	<	0.15	18%	1.89	12%	0.01	0.02	0.01
PM 19	<	22	69	50	49	7	<	5	<	<	0.5	11	17	17	<	4	8	2818	<	106	3	<	<	0.08	17%	2.63	11%	<	0.02	0.01
PM 20	1.3	45	33	86	131	17	<	4	<	<	0.9	19	77	15	<	11	15	2202	3	40	4	2	<	0.11	11%	2.66	6.89	0.02	0.02	0.04
PM 21	0.1	36	6	22	22	9	<	4	<	<	<	18	38	158	<	50	50	1219	17	37	5	5	0.02	0.55	4.02	4.11	2.86	0.09	0.01	0.06
PM 22	<	10	8	35	16	<	<	5	<	<	<	30	50	152	<	25	51	974	13	22	6	3	0.02	0.38	4.27	4.87	3.23	0.07	0.01	0.06
PM 23	3.8	115	194	116	895	69	<	6	<	<	0.3	335	434	22	<	23	22	2272	<	46	4	1	<	0.09	13%	5.82	8.47	0.02	0.02	0.03
PM 24	1.3	22	23	38	67	16	<	4	<	<	0.6	21	41	17	<	9	11	2528	<	54	4	1	<	0.07	13%	2.54	8.39	0.01	0.02	0.01
PM 25	1.4	24	13	32	46	14	<	4	<	<	<	12	34	14	<	7	9	1748	2	40	4	1	<	0.07	11%	1.81	6.98	0.01	0.02	0.02
PM 26	1.1	27	17	29	54	16	<	3	<	<	0.4	11	29	11	<	6	11	2135	2	32	4	2	<	0.07	8.45	2.15	5.20	0.01	0.02	0.02
PM 27	1.0	34	19	47	59	12	<	5	<	<	0.3	13	33	23	<	9	9	1855	2	71	3	1	<	0.13	14%	2.07	8.56	0.02	0.02	0.02
PM 28	<	15	12	35	26	7	3	3	<	<	<	5	9	26	<	5	10	2298	2	63	3	1	<	0.10	13%	1.90	8.32	0.01	0.02	0.02
PM 29	<	10	13	66	12	<	<	3	<	<	<	8	13	35	<	5	10	1050	7	49	2	2	<	0.19	9.11	1.85	5.68	0.03	0.02	0.03
PM 30	<	9	14	75	14	<	<	3	<	<	0.7	10	14	46	<	6	13	1178	8	30	2	2	<	0.31	6.20	2.19	3.82	0.06	0.02	0.05
PM 31	0.1	14	29	127	23	<	<	2	<	<	0.4	10	17	54	<	7	13	1364	6	53	2	2	<	0.29	7.03	1.99	4.42	0.04	0.02	0.04
PM 32	0.6	15	289	887	37	5	<	4	<	<	3.7	11	18	37	<	6	14	1855	3	70	3	2	<	0.19	10%	3.24	6.35	0.03	0.02	0.03
PM 33	1.3	60	19	79	34	11	<	4	<	<	0.8	9	20	117	<	7	25	3251	2	92	2	1	<	0.20	14%	3.76	9.14	0.01	0.02	0.02
PM 34	0.2	33	14	73	32	<	<	3	<	<	0.7	10	23	143	<	8	22	3139	<	84	2	1	<	0.20	15%	3.82	9.38	0.02	0.02	0.03
PM 35	<	10	7	59	28	<	<	3	<	<	<	12	23	115	<	11	20	2699	5	67	2	1	<	0.59	12%	4.12	8.35	0.02	0.02	0.05
PM 36	<	12	13	47	56	<	<	3	<	<	<	13	25	156	<	6	19	3261	5	72	2	1	<	0.25	11%	4.30	7.22	0.03	0.02	0.04
PM 37	<	14	28	113	25	<	<	3	<	<	0.2	8	17	37	<	6	10	1136	5	63	3	2	<	0.16	10%	1.83	6.43	0.03	0.02	0.03
PM 38	<	10	29	151	28	<	<	3	<	<	0.3	8	17	36	<	6	9	1202	4	67	3	2	<	0.16	10%	1.87	6.58	0.02	0.02	0.03
PM 39	<	9	50	242	28	<	<	4	<	<	1.1	8	17	36	<	7	12	1861	2	70	1	2	<	0.17	13%	2.78	8.15	0.01	0.02	0.02

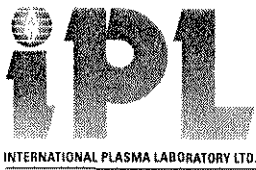
Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01

Max Reported\* 99.9 20000 20000 20000 9999 9999 9999 9999 999 999 99.9 999 999 9999 999 9999 999 9999 9999 9999 9999 999 99 1.00 9.99 9.99 9.99 9.99 9.99 5.00 5.00

Method ICP

—No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



# CERTIFICATE OF ANALYSIS

## iPL 95I1901

2036 Columbia Street  
 Vancouver, B.C.  
 Canada V5Y 3E1  
 Phone (604) 879-7878  
 Fax (604) 879-8988

Client: Northern Analytical Laboratories  
 Project: 15370 58 Pu/p

iPL: 95I1901

Out: Sep 26, 1995  
 In: Sep 19, 1995

Page 2 of 2  
 [075914:25:45:59092695]

Section 1 of 1  
 Certified BC Assayer: David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
PM 40	0.8	16	46	175	40	7	<	4	<	<	1.0	11	20	37	<	8	15	2365	2	80	2	1	<	0.21	13%	3.65	8.53	0.02	0.02	0.02
PM 41	0.2	21	20	80	25	<	<	4	<	<	0.7	7	19	72	<	7	16	2896	2	68	2	1	<	0.18	15%	3.27	9.78	<	0.02	0.02
PM 42	0.6	33	23	100	33	8	<	4	<	<	0.9	9	19	96	<	9	32	2801	2	101	2	1	<	0.32	14%	3.99	9.15	0.01	0.02	0.04
PM 43	<	19	15	66	60	<	<	4	<	<	0.8	19	47	72	<	9	24	1685	3	74	5	2	<	0.37	8.89	3.83	5.74	0.04	0.02	0.06
PM 44	<	15	17	57	86	5	<	5	<	<	<	27	53	53	<	13	29	1458	4	72	6	2	<	0.63	9.15	4.28	6.16	0.06	0.02	0.07
PM 45	<	17	12	64	53	<	<	3	<	<	<	12	24	112	<	9	23	2623	7	49	2	1	<	0.51	8.41	4.16	5.55	0.04	0.02	0.07
PM 46	0.1	13	6	57	19	<	<	3	<	<	0.5	11	21	86	<	9	18	1495	14	24	2	2	0.01	0.62	4.17	3.07	2.90	0.06	0.02	0.07
PM 47	1.1	18	63	225	45	<	<	4	<	<	0.6	13	20	44	<	7	13	2751	<	92	2	1	<	0.15	15%	4.07	9.56	0.01	0.02	0.02
PM 48	<	21	19	77	23	<	<	4	<	<	0.7	7	15	59	<	7	15	2735	2	70	1	1	<	0.16	15%	2.85	9.75	0.01	0.02	0.02
PM 49	1.1	70	43	111	52	13	<	4	<	<	0.3	10	31	142	<	9	35	3508	2	87	3	2	<	0.28	13%	4.02	8.06	0.02	0.02	0.04
PM 50	1.4	76	28	87	32	20	<	4	<	<	0.8	8	14	142	<	5	23	4261	<	110	1	<	<	0.16	17%	3.57	11%	<	0.02	0.01
PM 51	<	14	5	42	12	<	<	4	<	<	0.5	5	11	57	<	7	25	2317	2	76	2	1	<	0.17	15%	3.09	9.74	0.01	0.02	0.03
PM 52	<	8	4	41	11	<	4	3	<	<	0.5	6	12	54	<	6	12	1732	3	51	2	1	<	0.19	14%	2.45	9.20	0.01	0.02	0.04
PM 53	<	19	17	101	45	<	<	2	<	<	<	16	37	174	<	14	26	2729	24	9	4	3	0.01	1.00	0.77	5.70	1.20	0.07	0.01	0.09
PM 54	<	9	5	38	12	<	<	3	<	<	0.3	9	14	59	<	7	11	1485	14	24	2	1	<	0.44	7.58	2.38	5.07	0.05	0.02	0.06
PM 55	<	5	18	38	<	<	<	4	<	<	0.4	3	4	73	<	4	5	3111	<	32	1	<	<	0.08	16%	2.22	11%	<	0.02	0.04
PM 56	<	16	12	54	19	<	<	3	<	<	0.9	6	16	79	<	6	29	2711	<	103	1	1	<	0.18	16%	3.49	9.93	0.01	0.03	0.02
PM 57	1.6	80	51	102	97	12	<	5	<	<	<	17	41	111	<	9	45	3973	2	83	3	2	<	0.26	12%	4.76	7.77	0.03	0.02	0.05
PM 58	0.3	24	19	91	29	5	<	4	<	<	0.1	9	20	103	<	7	28	3246	2	113	2	1	<	0.20	15%	4.03	9.92	0.02	0.02	0.03

Min Limit    0.1    1    2    1    5    5    3    1    10    2    0.1    1    1    2    5    1    2    1    2    1    1    1    1    0.01    0.01    0.01    0.01    0.01    0.01    0.01    0.01    0.01

Max Reported\*    99.9    20000    20000    20000    9999    9999    9999    9999    999    999    999    999    999    9999    999    9999    999    9999    9999    9999    9999    9999    9999    9999    9999    9999    9999    9999    9999    9999    9999    9999

Method    ICP

—=No Test    ins=Insufficient Sample    S=Soil    R=Rock    C=Core    L=Silt    P=Pu/p    U=Undefined    m=Estimate/1000    %=Estimate %    Max=No Estimate

International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



INTERNATIONAL PLASMA LABORATORY LTD.

# CERTIFICATE OF ANALYSIS

## iPL 95I1902

2036 Columbia Street  
 Vancouver, B.C.  
 Canada V5Y 3E1  
 Phone (604) 879-7878  
 Fax (604) 879-7898

Northern Analytical Laboratories 116 Samples    0= Rock    0= Soil    0= Core    0=RC Ct    116= Pulp    0=Other    [076014:27:51:59092695]  
 Out: Sep 26, 1995    Project: 15382    Raw Storage:    --    --    --    --    12Mon/Dis    --    Mon=Month    Dis=Discard  
 In : Sep 19, 1995    Shipper: Norm Smith    Pulp Storage:    --    --    --    --    12Mon/Dis    --    Rtn=Return    Arc=Archive  
 PO#: 00871    Shipment:    ID=C030900

### Analytical Summary

#### Document Distribution

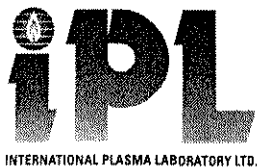
1 Northern Analytical Laboratories	EN	RT	CC	IN	FX
105 Copper Road	1	2	2	2	1
Whitehorse	DL	3D	5D	BT	BL
YT Y1A 2Z7	0	0	0	1	0

ATT: Norm Smith    Ph: 403/668-4968  
 Fx: 403/668-4890

##	Code	Met	Title	Limit	Limit	Units	Description	Element	##
				Low	High				
01	721P	ICP	Ag	0.1	100	ppm	Ag ICP	Silver	01
02	711P	ICP	Cu	1	20000	ppm	Cu ICP	Copper	02
03	714P	ICP	Pb	2	20000	ppm	Pb ICP	Lead	03
04	730P	ICP	Zn	1	20000	ppm	Zn ICP	Zinc	04
05	703P	ICP	As	5	9999	ppm	As ICP 5 ppm	Arsenic	05
06	702P	ICP	Sb	5	9999	ppm	Sb ICP	Antimony	06
07	732P	ICP	Hg	3	9999	ppm	Hg ICP	Mercury	07
08	717P	ICP	Mo	1	9999	ppm	Mo ICP	Molydenum	08
09	747P	ICP	Tl	10	999	ppm	Tl ICP 10 ppm (Incomplete	Thallium	09
10	705P	ICP	Bi	2	999	ppm	Bi ICP	Bismuth	10
11	707P	ICP	Cd	0.1	100	ppm	Cd ICP	Cadmium	11
12	710P	ICP	Co	1	999	ppm	Co ICP	Cobalt	12
13	718P	ICP	Ni	1	999	ppm	Ni ICP	Nickel	13
14	704P	ICP	Ba	2	9999	ppm	Ba ICP (Incomplete Digest	Barium	14
15	727P	ICP	W	5	999	ppm	W ICP (Incomplete Digest	Tungsten	15
16	709P	ICP	Cr	1	9999	ppm	Cr ICP (Incomplete Digest	Chromium	16
17	729P	ICP	V	2	999	ppm	V ICP	Vanadium	17
18	716P	ICP	Mn	1	9999	ppm	Mn ICP	Manganese	18
19	713P	ICP	La	2	9999	ppm	La ICP (Incomplete Digest	Lanthanum	19
20	723P	ICP	Sr	1	9999	ppm	Sr ICP (Incomplete Digest	Strontium	20
21	731P	ICP	Zr	1	999	ppm	Zr ICP	Zirconium	21
22	736P	ICP	Sc	1	99	ppm	Sc ICP	Scandium	22
23	726P	ICP	Ti	0.01	1.00	%	Ti ICP (Incomplete Digest	Titanium	23
24	701P	ICP	Al	0.01	9.99	%	Al ICP (Incomplete Digest	Aluminum	24
25	708P	ICP	Ca	0.01	9.99	%	Ca ICP (Incomplete Digest	Calcium	25
26	712P	ICP	Fe	0.01	9.99	%	Fe ICP	Iron	26
27	715P	ICP	Mg	0.01	9.99	%	Mg ICP (Incomplete Digest	Magnesium	27
28	720P	ICP	K	0.01	9.99	%	K ICP (Incomplete Digest	Potassium	28
29	722P	ICP	Na	0.01	5.00	%	Na ICP (Incomplete Digest	Sodium	29
30	719P	ICP	P	0.01	5.00	%	P ICP	Phosphorus	30







**CERTIFICATE OF ANALYSIS**  
**iPL 95J2406**

2036 Columbia Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7898

Northern Analytical Laboratories 15 Samples  
Out: Nov 01, 1995 Project: 15444  
In: Oct 24, 1995 Shipper: Norm Smith  
PO#: 00880 Shipment: ID=C030900  
Msg: ICP(AqR)30

0= Rock 0= Soil 0= Core 0=RC Ct 15= Pu1p  
Raw Storage: -- -- -- -- 12Mon/Dis  
Pulp Storage: -- -- -- -- 12Mon/Dis

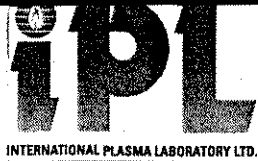
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Rtn=Return Arc=Archive

**Document Distribution**

1 Northern Analytical Laboratories EN RT CC IN FX  
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Whitehorse DL 3D 5D BT BL  
YT Y1A 2Z7 0 0 0 1 0  
  
ATT: Norm Smith Ph:403/668-4968  
Fx:403/668-4890

**Analytical Summary**

##	Code	Met	Title	Limit	Limit	Units	Description	Element	##
			hod	Low	High				
01	721P	ICP	Ag	0.1	100	ppm	Ag ICP	Silver	01
02	711P	ICP	Cu	1	20000	ppm	Cu ICP	Copper	02
03	714P	ICP	Pb	2	20000	ppm	Pb ICP	Lead	03
04	730P	ICP	Zn	1	20000	ppm	Zn ICP	Zinc	04
05	703P	ICP	As	5	9999	ppm	As ICP 5 ppm	Arsenic	05
06	702P	ICP	Sb	5	9999	ppm	Sb ICP	Antimony	06
07	732P	ICP	Hg	3	9999	ppm	Hg ICP	Mercury	07
08	717P	ICP	Mo	1	9999	ppm	Mo ICP	Molydenum	08
09	747P	ICP	Tl	10	999	ppm	Tl ICP 10 ppm (Incomplete	Thallium	09
10	705P	ICP	Bi	2	999	ppm	Bi ICP	Bismuth	10
11	707P	ICP	Cd	0.1	100	ppm	Cd ICP	Cadmium	11
12	710P	ICP	Co	1	999	ppm	Co ICP	Cobalt	12
13	718P	ICP	Ni	1	999	ppm	Ni ICP	Nickel	13
14	704P	ICP	Ba	2	9999	ppm	Ba ICP (Incomplete Digest	Barium	14
15	727P	ICP	W	5	999	ppm	W ICP (Incomplete Digest	Tungsten	15
16	709P	ICP	Cr	1	9999	ppm	Cr ICP (Incomplete Digest	Chromium	16
17	729P	ICP	V	2	999	ppm	V ICP	Vanadium	17
18	716P	ICP	Mn	1	9999	ppm	Mn ICP	Manganese	18
19	713P	ICP	La	2	9999	ppm	La ICP (Incomplete Digest	Lanthanum	19
20	723P	ICP	Sr	1	9999	ppm	Sr ICP (Incomplete Digest	Strontium	20
21	731P	ICP	Zr	1	999	ppm	Zr ICP	Zirconium	21
22	736P	ICP	Sc	1	99	ppm	Sc ICP	Scandium	22
23	726P	ICP	Ti	0.01	1.00	%	Ti ICP (Incomplete Digest	Titanium	23
24	701P	ICP	Al	0.01	9.99	%	Al ICP (Incomplete Digest	Aluminum	24
25	708P	ICP	Ca	0.01	9.99	%	Ca ICP (Incomplete Digest	Calcium	25
26	712P	ICP	Fe	0.01	9.99	%	Fe ICP	Iron	26
27	715P	ICP	Mg	0.01	9.99	%	Mg ICP (Incomplete Digest	Magnesium	27
28	720P	ICP	K	0.01	9.99	%	K ICP (Incomplete Digest	Potassium	28
29	722P	ICP	Na	0.01	5.00	%	Na ICP (Incomplete Digest	Sodium	29
30	719P	ICP	P	0.01	5.00	%	P ICP	Phosphorus	30



# CERTIFICATE OF ANALYSIS

## iPL 95J2406

2036 Columbia Street  
 Vancouver, B.C.  
 Canada V5Y 3E1  
 Phone (604) 879-7878  
 Fax (604) 879-7898

Client: Northern Analytical Laboratories  
 Project: 15444 15 Pulp

iPL: 95J2406

Out: Nov 01, 1995  
 In: Oct 24, 1995

Page 1 of 1  
 [091717:57:05:59110195]

Section 1 of 2  
 Certified BC Assayer: David Chiu

Sample Name	Ag	Cu	Pb	Zn	As	Sb	Hg	Mo	Tl	Bi	Cd	Co	Ni	Ba	W	Cr	V	Mn	La	Sr	Zr	Sc	Ti	Al	Ca	Fe	Mg	K	Na	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%
TE - 95 - 1																														1
TE - 95 - 2																														1
TE - 04 -95																														2
VN MARKED 1																														
RA - 95 -51	7.2	9.7%	30	123	351	68	<	42	<	928	<	203	23	12	27	21	9	1127	<	11	5	1	0.01	0.07	1.83	1000.89	0.01	0.01		
RA - 95 -52	14.7	2653	4215	220	12%	9669	66	5	<	15%	7.2	7.5%	0.3%	<	<	3	12	9567	<	3	<	<	<	0.01	0.11	14%	4.37	<	0.01	
RA - 95 -53	22.5	2615	6847	220	10%	1.7%	50	2	<	29%	6.8	6.2%	0.4%	<	<	3	8	5693	<	3	<	<	<	0.01	0.11	10%	2.54	<	0.01	
RA - 95 -54	39.5	1439	422	255	7295	1359	<	6	<	1.0%	2.2	0.1%	109	20	<	8	38	1.3%	<	5	9	1	<	0.08	0.10	23%	3.70	0.03	0.01	
RA - 95 -55	21.0	1803	2738	186	4.8%	9084	24	1	<	13%	1.3	2.6%	0.2%	<	<	2	16	1.3%	<	3	1	<	<	0.01	0.10	16%	5.51	0.02	0.01	
RA - 52(B)-95	19.0	2533	5403	204	11%	1.7%	56	<	<	27%	7.6	6.9%	0.4%	<	<	3	6	4739	<	2	<	<	<	0.01	0.09	9.22	2.06	0.02	0.01	
RA - 53(B)-95	18.2	2516	5363	211	13%	1.3%	60	1	<	22%	9.0	8.0%	0.4%	<	<	3	11	7619	<	3	<	<	<	0.01	0.10	13%	2.84	0.01	0.01	
RA - 60 - 95	0.2m	8.7%	79	4774	1889	2.8%	220	2	<	0.5%	22.9	391	32	<	20	51	7	5545	<	7	<	1	<	0.01	0.31	8.03	1.77	<	0.01	
RAM- 61 - 95	0.3m	8.4%	83	4131	2079	2.7%	225	2	<	0.4%	21.4	258	24	<	14	39	10	5997	<	19	1	1	<	0.01	1.90	9.04	2.08	<	0.01	
TE - 03 - 95(-80)	2.5	68	607	4638	212	70	14	2	<	45	<	69	22	26	<	5	33	67	<	9	9	1	<	0.16	0.45	20%	0.07	0.14	0.01	
TE - 56 - 95(-80)	0.8	64	27	65	24	25	<	2	<	10	0.9	10	14	446	<	7	17	1234	5	19	1	1	<	0.35	7.00	2.13	4.57	0.04	0.01	

093509

Min Limit      0.1    1    2    1    5    5    3    1    10    2    0.1    1    1    2    5    1    2    1    2    1    1    1    1    0.01    0.01    0.01    0.01    0.01    0.01

Max Reported\*    99.9    20000    20000    20000    9999    5.00

Method            ICP    ICP

---No Test    ins=Insufficient Sample    S=Soil    R=Rock    C=Core    L=Silt    P=Pulp    U=Undefined    m=Estimate/1000    %=Estimate %    Max=No Estimate

International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898

03/11/95

Assay Certificate

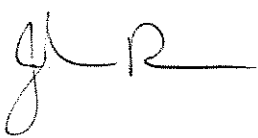
Page 1

Montoro Resources

WO#15444

Sample #	Au oz/ton	Ag ppm	Ag oz/ton	(-80) Au ppb	(-80) Ag ppm	(+80) Au oz/ton	(+80) Ag ppm
TE 01 95	0.001	1.7					
TE 02 95	0.003	1.9					
TE 04 95	0.001	1.1					
Unmarked 1	0.254	17.3					
RA 51 95	0.007	7.8					
RA 52 95	0.341	15.9					
RA 52 95 B	0.326	23.5					
RA 53 95	0.414	26.3					
RA 53 95 B	0.411	20.8					
RA 54 95	0.091	37.2					
RA 55 95	0.173	21.9					
Ram 60 95	0.278	>50.0	52.82				
Ram 61 95	0.267	>50.0	55.45				
TE 03 95				12	1.6	0.001	4.8
RA 56 95				8	0.1	0.001	0.1

Note: Analyses were done on the -80 mesh fraction of the soil samples and on the pulverized +80 mesh fraction (oversize), as indicated in the headings. The accompanying multi-element ICP analyses were done on the -80 mesh fraction.  
Assay Ag (oz/ton) was analysed by fire assay.

Certified by 

## APPENDIX B

### RAM CLAIMS GEOPHYSICAL FIELD DATA

#### I RAM CLAIM COVERAGE

Ram Claim 106C-13 Magnetometer Survey Coverage Map

RAM95.XLS Mag Data File

Covering Lines 5825, 5850, 5875, and 5900

Graph (Magnetic Variation vs. Station Location) of Line 5825

Graph (Magnetic Variation vs. Station Location) of Line 5850

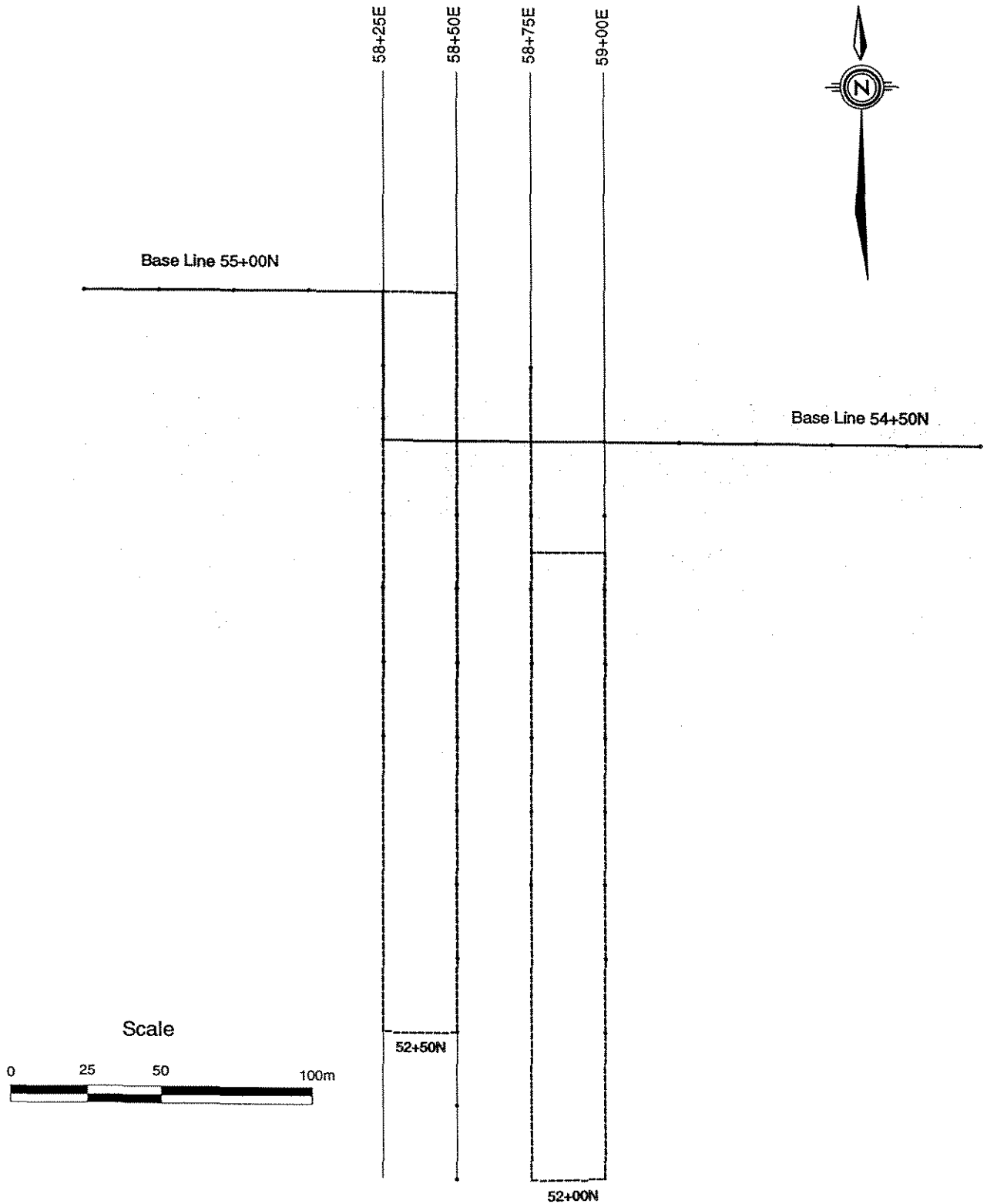
Graph (Magnetic Variation vs. Station Location) of Line 5875

Graph (Magnetic Variation vs. Station Location) of Line 5900

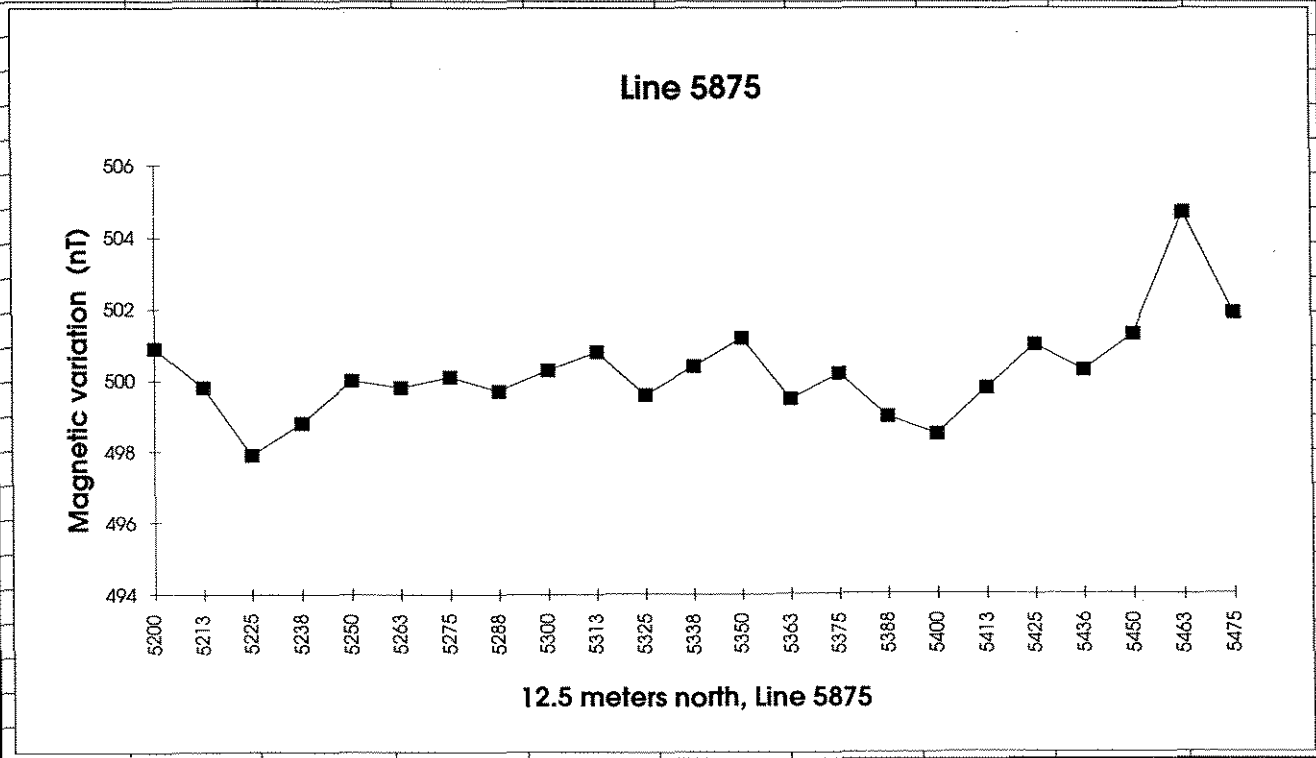


# MAGNETOMETER SURVEY LOCATION

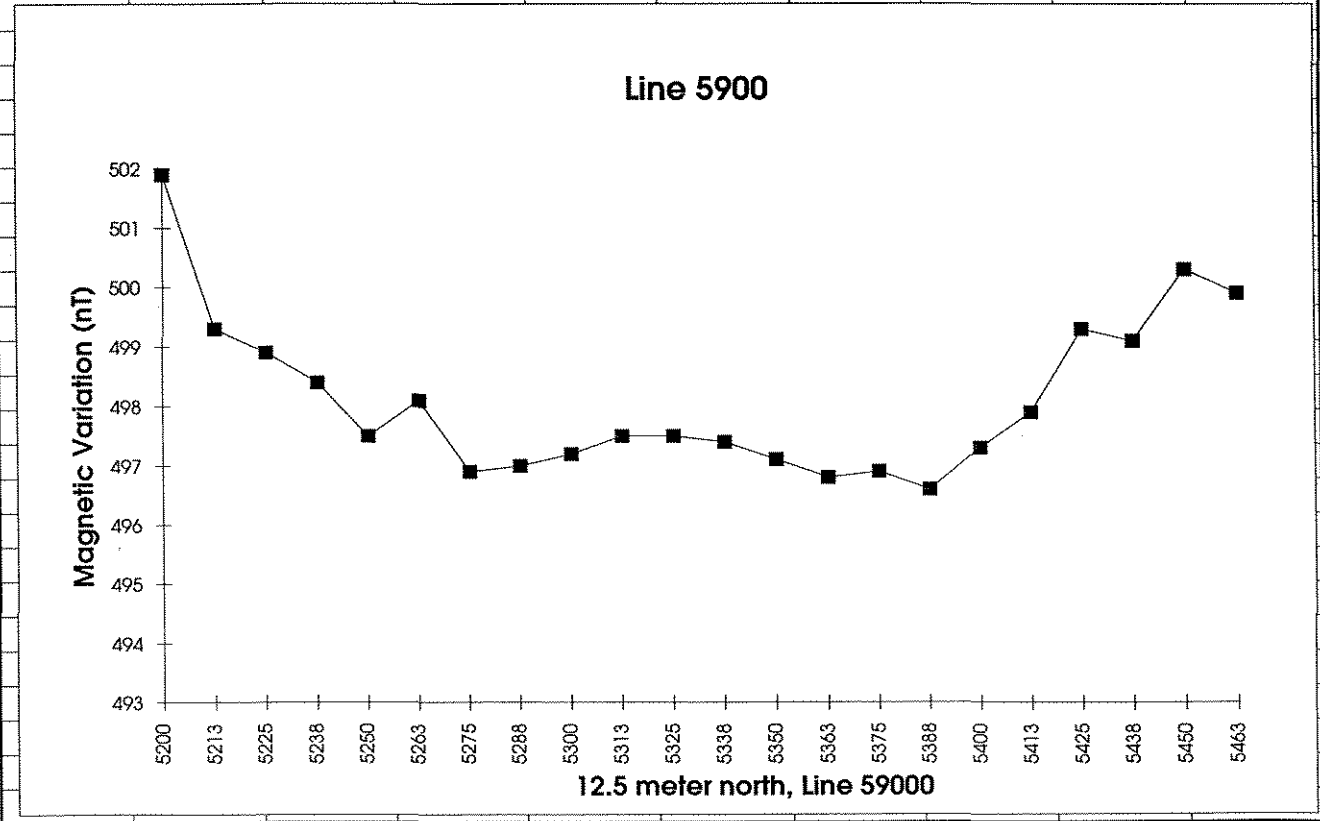
## IOTA FAULT 106C-14 LOCALE 2



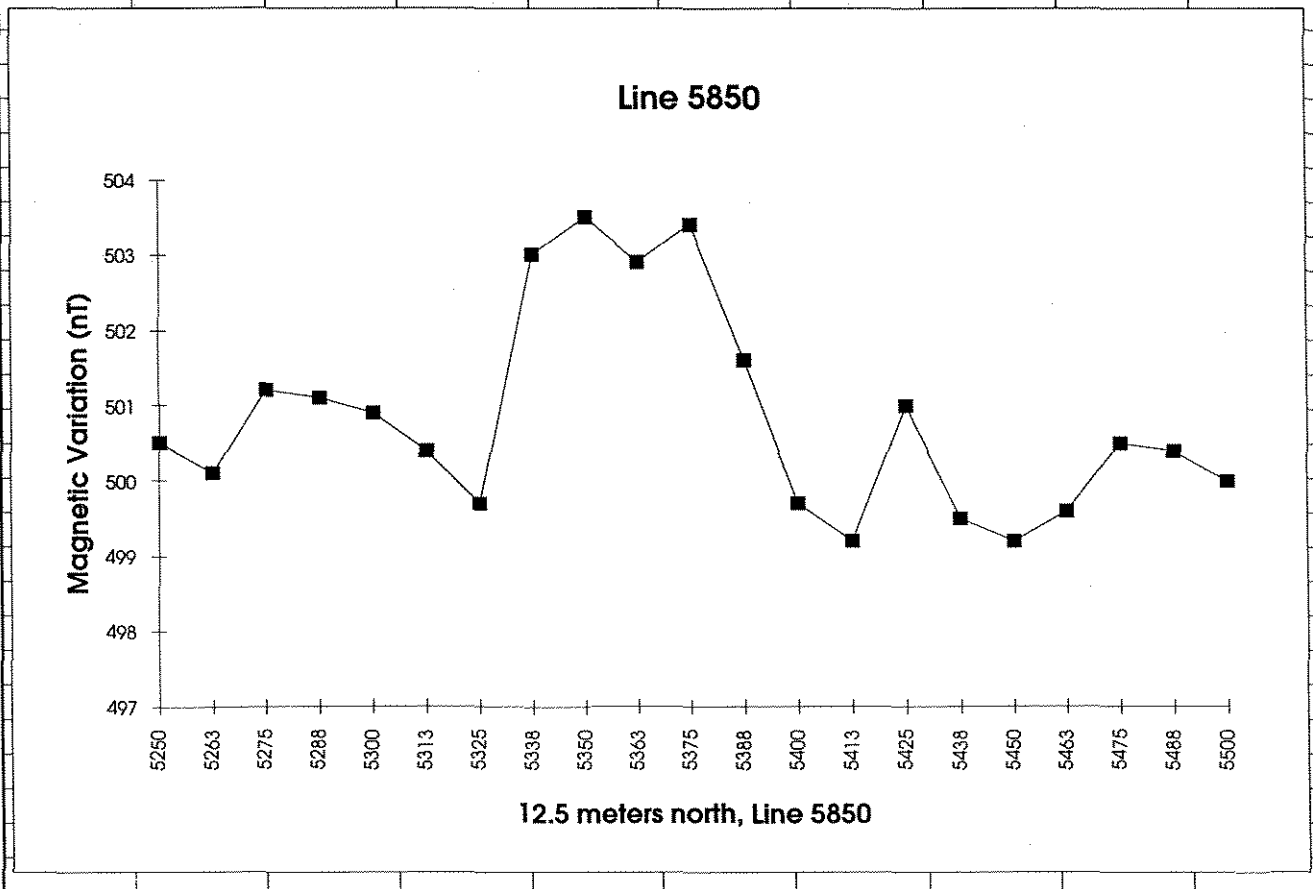
Line 5875				
Total Field	Station, N		Variation	
59000.9	5200	58500	500.9	
58999.8	5212.5	58500	499.8	
58997.9	5225	58500	497.9	
58998.8	5237.5	58500	498.8	
59000	5250	58500	500	
58999.8	5262.5	58500	499.8	
59000.1	5275	58500	500.1	
58999.7	5287.5	58500	499.7	
59000.3	5300	58500	500.3	
59000.8	5312.5	58500	500.8	
58999.6	5325	58500	499.6	
59000.4	5337.5	58500	500.4	
59001.2	5350	58500	501.2	
58999.5	5362.5	58500	499.5	
59000.2	5375	58500	500.2	
58999	5387.5	58500	499	
58998.5	5400	58500	498.5	
58999.8	5412.5	58500	499.8	
59001	5425	58500	501	
59000.3	5435.5	58500	500.3	
59001.3	5450	58500	501.3	
59004.7	5462.5	58500	504.7	
59001.9	5475	58500	501.9	



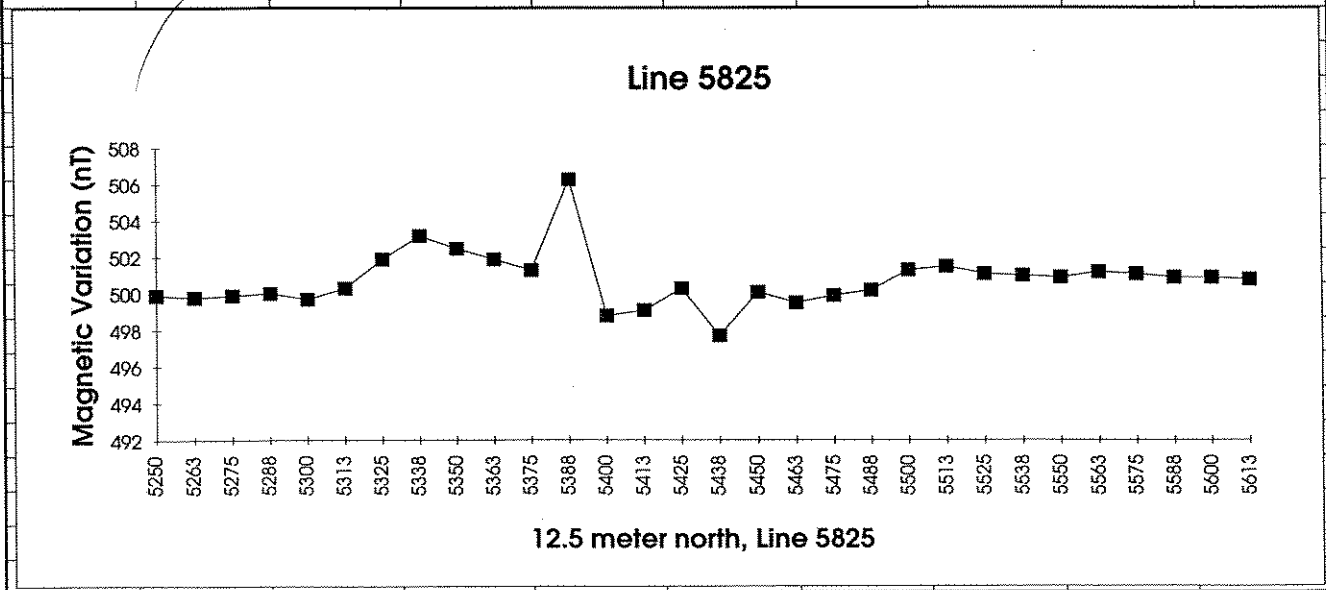
Line 5900				
Total Field	Station, N		Variation	
59001.9	5200	58500	501.9	
58999.3	5212.5	58500	499.3	
58998.9	5225	58500	498.9	
58998.4	5237.5	58500	498.4	
58997.5	5250	58500	497.5	
58998.1	5262.5	58500	498.1	
58996.9	5275	58500	496.9	
58997	5287.5	58500	497	
58997.2	5300	58500	497.2	
58997.5	5312.5	58500	497.5	
58997.5	5325	58500	497.5	
58997.4	5337.5	58500	497.4	
58997.1	5350	58500	497.1	
58996.8	5362.5	58500	496.8	
58996.9	5375	58500	496.9	
58996.6	5387.5	58500	496.6	
58997.3	5400	58500	497.3	
58997.9	5412.5	58500	497.9	
58999.3	5425	58500	499.3	
58999.1	5437.5	58500	499.1	
59000.3	5450	58500	500.3	
58999.9	5462.5	58500	499.9	



Line 5850				
Total Field	Station, N		Variation	
59000.5	5250	58500	500.5	
59000.1	5262.5	58500	500.1	
59001.2	5275	58500	501.2	
59001.1	5287.5	58500	501.1	
59000.9	5300	58500	500.9	
59000.4	5312.5	58500	500.4	
58999.7	5325	58500	499.7	
59003	5337.5	58500	503	
59003.5	5350	58500	503.5	
59002.9	5362.5	58500	502.9	
59003.4	5375	58500	503.4	
59001.6	5387.5	58500	501.6	
58999.7	5400	58500	499.7	
58999.2	5412.5	58500	499.2	
59001	5425	58500	501	
58999.5	5437.5	58500	499.5	
58999.2	5450	58500	499.2	
58999.6	5462.5	58500	499.6	
59000.5	5475	58500	500.5	
59000.4	5487.5	58500	500.4	
59000	5500	58500	500	



Line 5825						
Total Field	Station, N			Variation		
58999.9	5250	58500		499.9		
58999.8	5262.5	58500		499.8		
58999.9	5275	58500		499.9		
59000	5287.5	58500		500		
58999.7	5300	58500		499.7		
59000.3	5312.5	58500		500.3		
59001.9	5325	58500		501.9		
59003.2	5337.5	58500		503.2		
59002.5	5350	58500		502.5		
59001.9	5362.5	58500		501.9		
59001.3	5375	58500		501.3		
59006.3	5387.5	58500		506.3		
58998.8	5400	58500		498.8		
58999.1	5412.5	58500		499.1		
59000.3	5425	58500		500.3		
58997.7	5437.5	58500		497.7		
59000.1	5450	58500		500.1		
58999.5	5462.5	58500		499.5		
58999.9	5475	58500		499.9		
59000.2	5487.5	58500		500.2		
59001.3	5500	58500		501.3		
59001.5	5512.5	58500		501.5		
59001.1	5525	58500		501.1		
59001	5537.5	58500		501		
59000.9	5550	58500		500.9		
59001.2	5562.5	58500		501.2		
59001.1	5575	58500		501.1		
59000.9	5587.5	58500		500.9		
59000.9	5600	58500		500.9		
59000.8	5612.5	58500		500.8		



RAM CLAIMS, DOLORES CR. YT.  
Rock Samples Description

All samples are taken from the basal Gillespie Lake group geological sequence:

Orange weathering to silty to sandy dolostone interbedded with black weathering shale, gray to white fine grained sandstone with minor argillite.

DT-595 Ram #2, dolostone/limestone/marble/iron carbonate gossan unit Hc2/Hc3, float with chalcopryrite  
Cu 4.7%, Mo 51, Fe 9%, Ca 2%, Al 4%,  
Na, K 3.9% U 35, P, La, and Y

DT-695 RAM #2, Tetrahedrite creek gossan, gray dolostone unit Hc4 high grade cobaltite-chalcopryrite on shear zone.  
Au 0.06, Ag 2oz.  
Cu 1.5%, Sb 0.7%, Bi 3.6%, Fe 26%,  
Ni, Co 0.9%, Mn 1.2%, U,  
Pb, Zn, As 0.2%, Mg 5%,

DT-795 Same rock unit as above with high grade mineralization  
Au 0.18oz./ton and 18 ICP, Ag 1.4 oz./ton  
Cu 1.2%, Sb 1.8%, Bi 2.9%, Fe 12%,  
Ni 0.2%, Co 2.8% Mn 0.6%, U 43  
Pb, Zn, As 0.9%,

DT-895 Wall rock, black to gray massive dolostone unit Hc1  
Cu, Sb, Bi 0.3%, Ca 10%  
Pb, Zn +10%, Cd 429, Co, As, Mg

DT-1595 Sedimentary wall rock composed of dolostone and gray shale.  
Cu 10%, Mo 42, Bi 428, Fe 18%  
Zn, U 55, P, La, K 2% and Be

DT-1695 Carbonate, dolostone, gray shale with 25% sulfides  
Cu +10, Mo 42, Bi 298, Fe 18%  
Zn, U 65, P, La, K 2.9% and Bi

RA-195JH Dolomite/silstone contact Hc1/Hc2 units, quartz vein 2" next to 1/10" galena vein  
Au 1.8 and 53 ICP  
Cu, Sb, Bji, Fe 2%  
Bp 1.9, Zn 7%, Cd 237

RA-295JH Altered diorite, medium grained with carbonates  
Cu, Ni, Co, Fe 7%, As, Bi  
Cr, Mg %, Ba, Al 4%, K 2.8%  
Zr, Y, Sc



RA-395JH Black shale intermixed with brown dolostone, 1/4" quartz vein and wall rock, unit Hc2/3.

Cu, Sb, Bi, Fe 19%  
Zn, Cd.

RA-495 60% sulphides and 40% quartz from main mineralization 2 feet wide, unit Hc2/3

Au 117g ICP., Ag  
Cu 3.6%, As, Sb 4.5%, Bi 670,  
Pb 4.2%, Zn 7.8%, Cd 447, Cr.

RA-595JH Same location, white quartz with 10% metallic

Au 25g. ICP., Ag.  
Cu 2.4%, As, Sb 3.6%, Bi, Cr.  
Pb 4.4%, Zn +10%, Cd 714,

RA695JH Wall rock with minor pyrite, fine grained altered diorite.

Cu, Sb, Bi, Ni-Co, Cr.  
Pb, Zn, As, U, Ba, Al, K 4%, Zr, Sn.

# DOLORES CREEK; 106C13-14

## GEOLOGICAL LEGEND

### QUATERNARY

**Q** Alluvium, colluvium and glacial deposits

### UPPER PROTERZOIC to LOWER PALEZOIC

**Peu** Rusty to grey weathering quartz arenite, pinkish orange & grey weathering white carbonates; pebble conglomerate; siltstone & shale

### HADRYNIAN

#### Rapitan Group or Windermere Supergroup

5 formations, total 2,500m Fs, Pk, Pt

**Hr** Conglomerate and breccia

**Hr2** Conglomerate: well-rounded dolostone cobbles in a silty matrix

**Hr1** Breccia: angular slate and dolostone clasts in a clast supported breccia

#### Angular unconformity

#### Pinguicula Group,

**Hc2** miogeoclinal to platformal PPA to PP

**Hc1** Dolostone and limestone: grey weathering, resistant, massive

**Hs** Dolostone: buff weathering, resistant, medium bedded

Slate: maroon and grey slate, shale and siltstone

#### unconformity, Racklan Orogeny

### HELIKIAN

#### WERNECKE SUPERGROUP

##### 1.) Gillespie Lake Group PGL & PGLB

**Hc5** Pebbly dolostone: orange weathering, pebbly or sandy dolostone

**Hc4** Grey dolostone: grey weathering, grey, massive dolostone

**Hc3** Laminated dolostone: laminated- to medium-bedded, buff weathering, grey to white dolostone with minor or no argillite laminae; stromatolites and ripples abundant

**Hc2** Thin bedded dolostone & argillite: buff- to orange-weathering, grey dolostone with abundant black argillite, thinly bedded

**Hc1** Massive dolostone: buff weathering, grey or white dolostone, thick bedded to massive

## 2.) Quartet Lake Group PQ

**Hsc** Slate, siltstone and argillite: dark grey; minor limy beds

## 3.) Fairchild Lake Group PFL

**Hc** Siltstone with minor carbonate interbed

# HADRYNIAN AND/OR HELIKIAN

## Intrusive rocks

- +Kd+** Diorite and dolerite: brown-weathering, medium grained, altered to chlorite and carbonate, locally pegmatitic, Pd..
- Km** Mafic dyke: dark green to greenish grey weathering, dark green, fine- to medium-grained, plagioclase-pyroxene diorite
- Wb** Wernecke Breccia, grey, green and washed red, hematitic & dolomitic breccia with related metasomized & bleached contry rocks.
- ++** Intrusive rocks, pegmatite, quartz syenite stock, Pd.

## ALTERATION

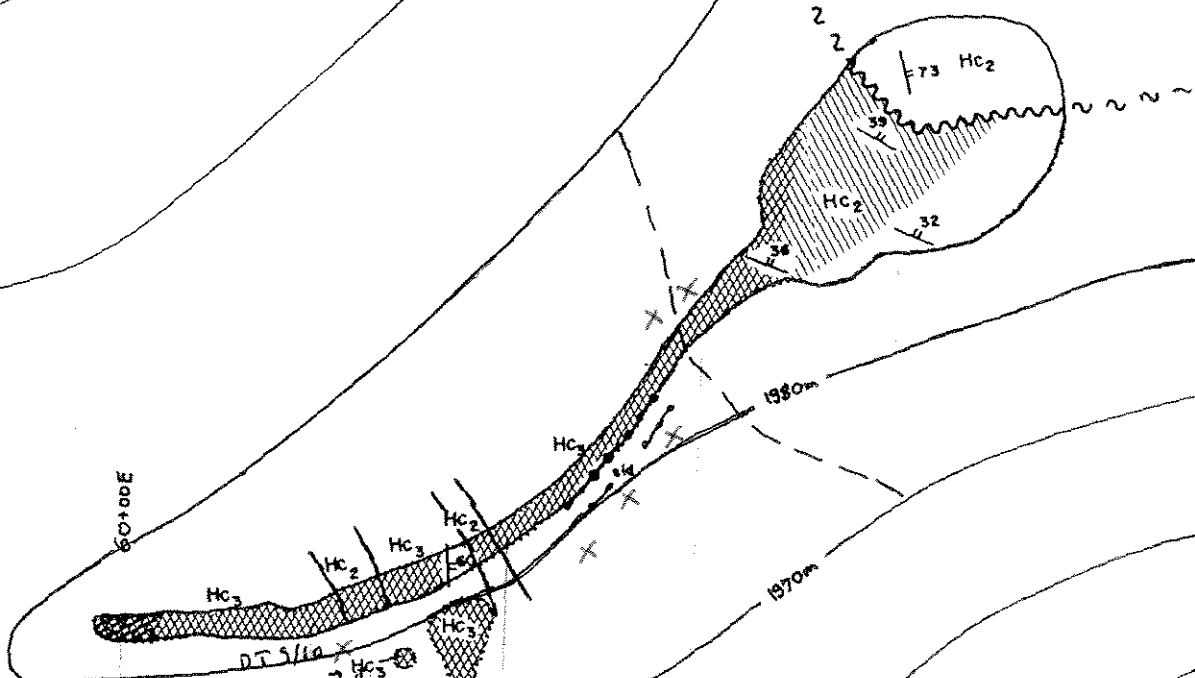
- Iron carbonate alteration: injection of iron to carbonate which produced a reddish-brown colour on weathering
- L** Recrystallization: recrystallization of dolostone and limestone to massive crystalline dolostone
- Si** Silicification: pervasive and/or veinlet silicification

\* Modified after Blusson 1974, Delaney & O.F. 1995-6

HV Vein zone with silicification  $\begin{matrix} + & + \\ + & + \end{matrix}$  HV

Hf FAULT zone gouge

# Geology & Location MAP



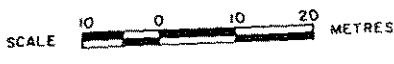
TRENCH 6

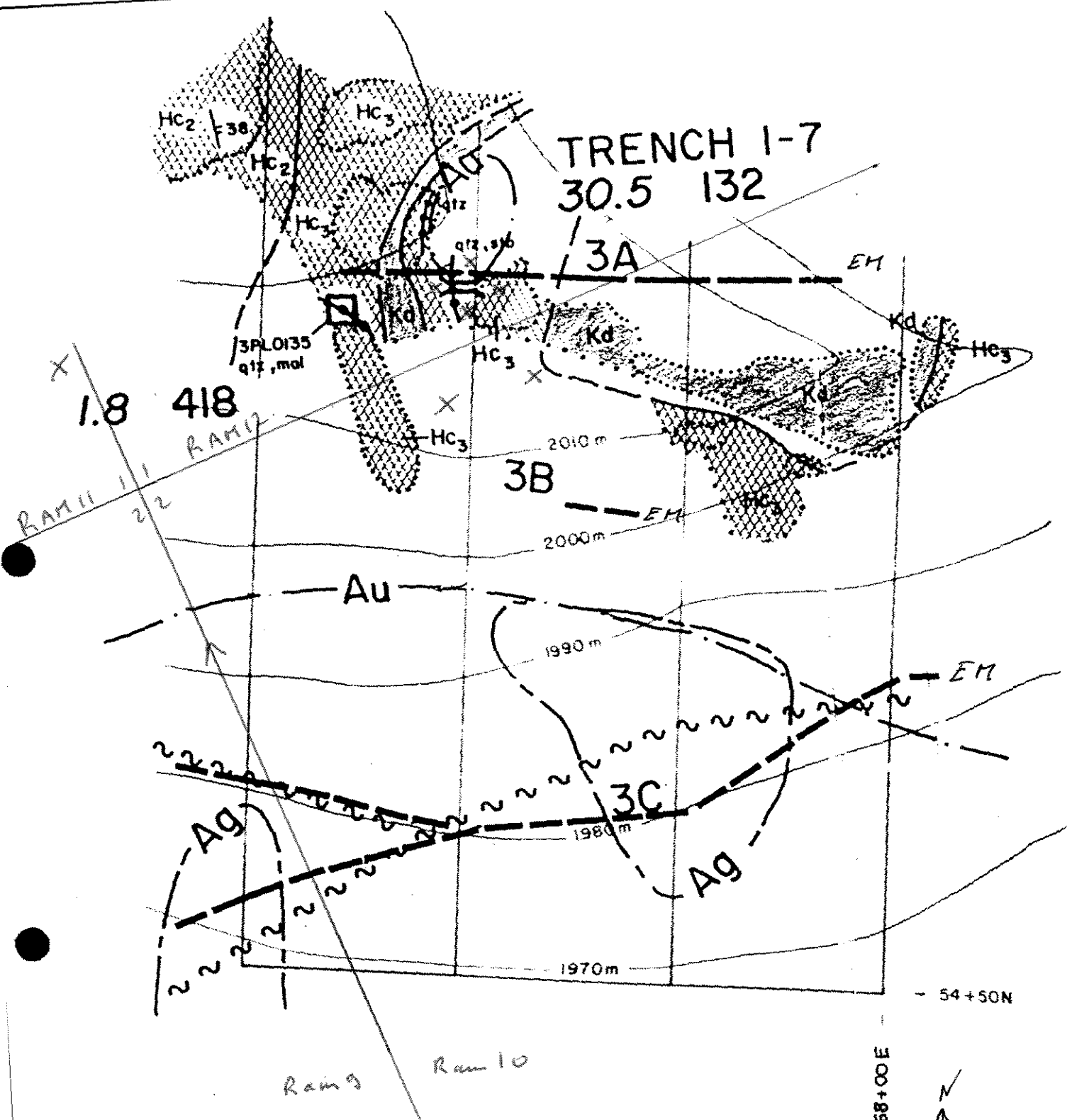
DT 5/14 x Hc3  
DT 15/16 x Hc3  
DT 1/8 x Hc3  
Au = 7.4%, 1830 g Ag.

IOTA FAULT ZONE

RAMP

x pit location  
gold, silver in grams



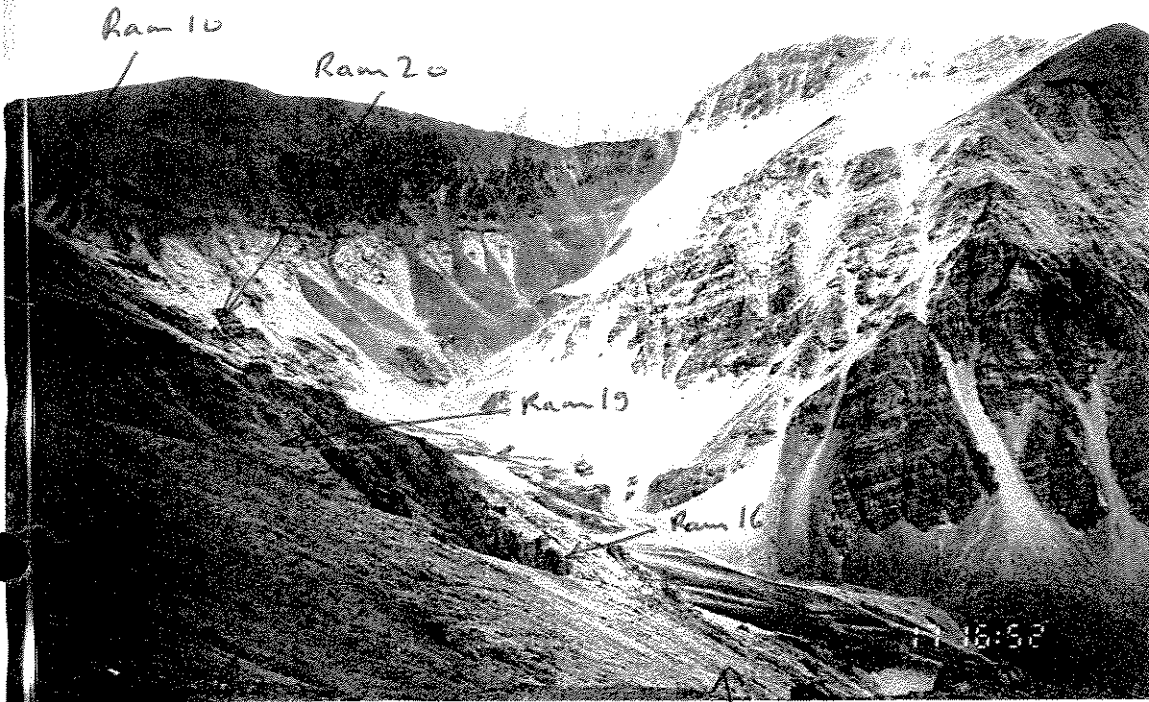


- - - - - Geochemical Soil anomalies  
 gold in grams, silver in grams  
 - - - - - EM Conductors.  
 X pit Location



# Dolores Creek NORTH ARM. HEADWATERS.

## Physiography



RAM 5

Ram 15



TRENCH 1-7

Ram 12

Ram 10



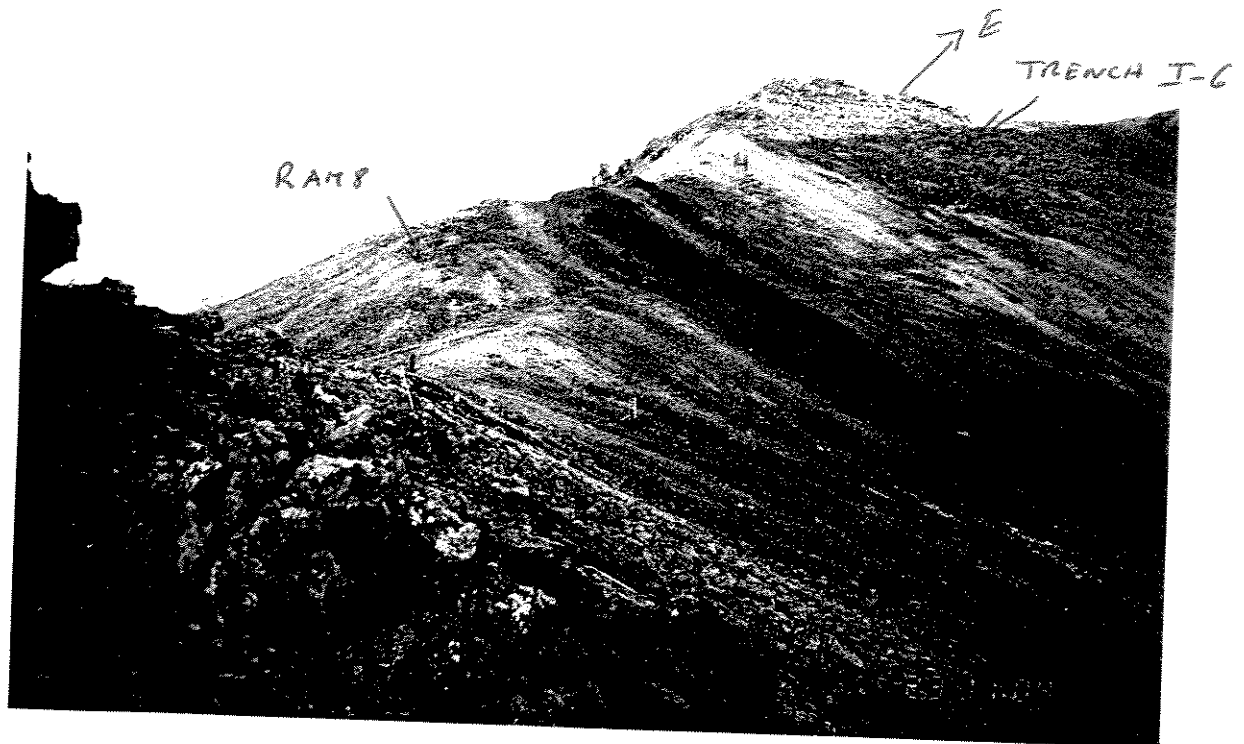
BLASTING SITES

BEST ATTAINABLE  
IMAGE

RAM CLAIM GROUP Line Surveys



Geochemical Sampling Sites



Geochemical Base Line 54+50N

BEST AVAILABLE  
IMAGE

T. Jones Creek NORTH ARM - HEAD WATER

Physiography / Sampling sites



↑ Ruby 5

Screen slope Sampling

RAM 10



RAM 10 →

→ Fog →  
↓

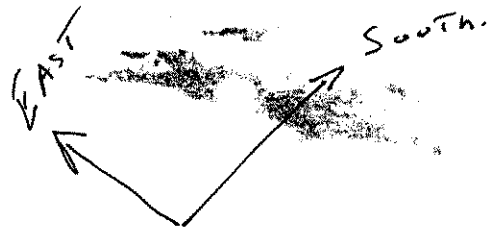
RAM 17 →

Ruby 1 ↗

Soil Sampling on Plateau

BEST ATTAINABLE  
IMAGE

BEST ATTAINABLE  
IMAGE



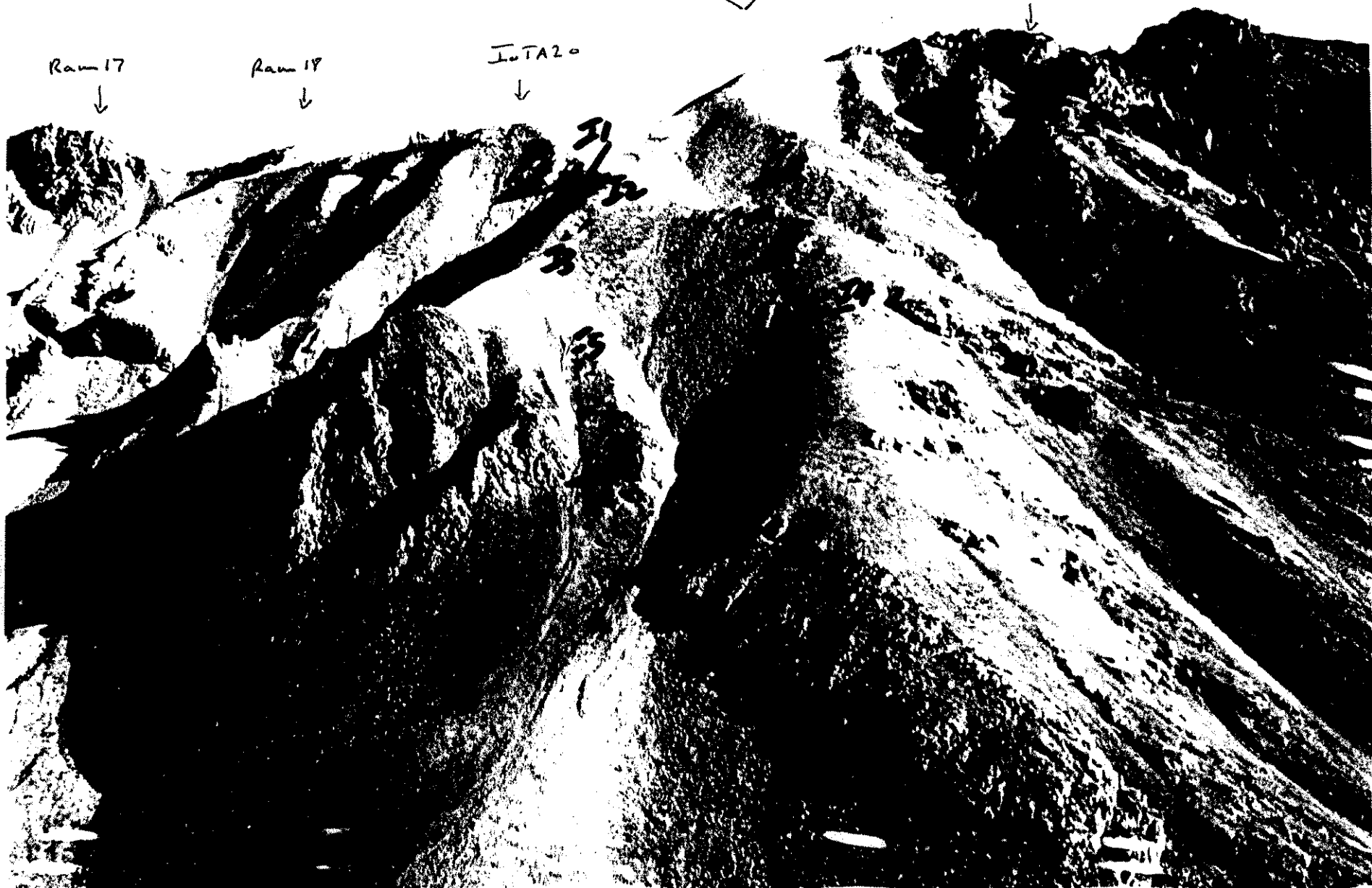
Ram 17  
↓

Ram 18  
↓

IOTA 20  
↓

Ram 8  
↓

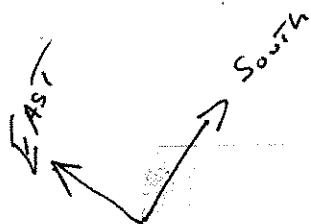
Ram 7  
←



IOTA 20 →

IOTA 13 ↑

BEST ATTAINABLE  
IMAGE



Location I<sub>1</sub> Trench.

Samples I<sub>0</sub> 150-172.

DH 1-18-

2508 95TH BULK.

Location I<sub>4</sub> pits.

Samples  
I<sub>20</sub> - 21 / I<sub>0</sub> 4-51195

RAMP



IOTA 20



I<sub>3</sub>

IOTA 20 ↑

IOTA 19 ↑

LOCAL 1 TRENCHES #1

Discovery Loc.

BEST ATTAINABLE  
IMAGE



Rock Samples DH 1 - DH 1835