**TOODOGGONE GOLD INC.**

GEOLOGICAL REPORT ON THE

**ELOISE, JEREMY AND DANIEL CLAIMS**

OMINECA MINING DIVISION

LATITUDE: 57°19'N LONGITUDE: 126°54'W

N.T.S. 94E/7W

AUTHORS: Mohamad Bekdache
Geological Engineer
Josef Seywerd
Geologist

DATE OF WORK: August 13,1987

DATE OF REPORT: November, 1987



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,798

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**ILLUSTRATIONS**

## SUMMARY

The **Jeremy Group** claims area is underlain by Lower Jurassic undivided Toodoggone volcanics (Hazelton Group). The volcanics are folded and faulted by an elongated intrusive lying on the west and outside of the claims area. These volcanics were then intruded and pushed by a buried intrusive underlying the claim area. The intrusive activities are evidenced by the presence of deformed pyroclastic formations, dike swarm, faults and gossans.

The property is a very good exploration target with a good potential to contain significant mineralization above the Jurassic intrusive and within volcanics subject to the block faulting activities on the west side of the claims.

## INTRODUCTION

A regional program consisting of geologic mapping, multipole induced polarization and geochemical sampling was conducted in the Toodoggone Gold Belt area in August, 1987. The intention of this survey was to geologically map and sample the area with particular attention to magnetometer lows. Geochemical surveys were then made over those magnetometer lows covered by overburden. White Geophysical has been commissioned by **Toodoggone Gold Inc.** to review and analyze the data gathered across the **Eloise, Jeremy and Daniel** claims. In this report the claims will be referred to as the **Jeremy group.** One Grid of soil sampling was carried out on the **Jeremy claim** for a total of 121 Geochemical samples and 14 rock samples were taken from this claim.

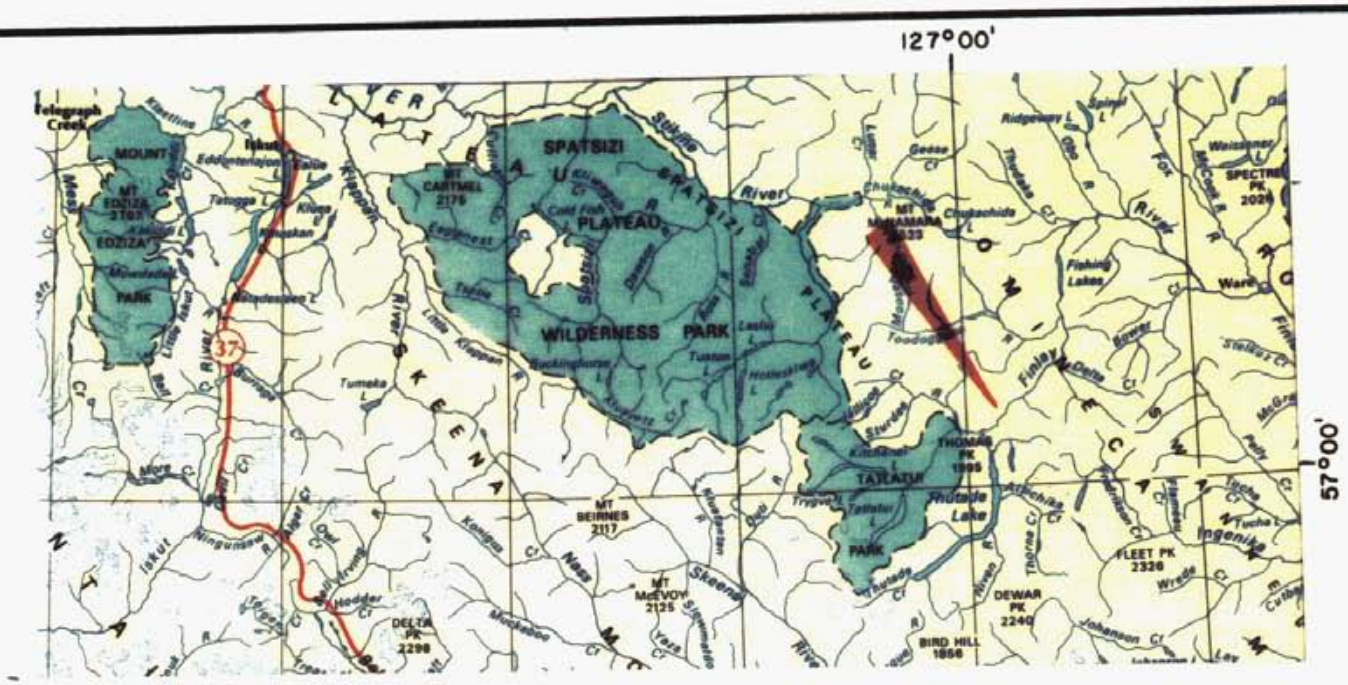
## PROPERTY

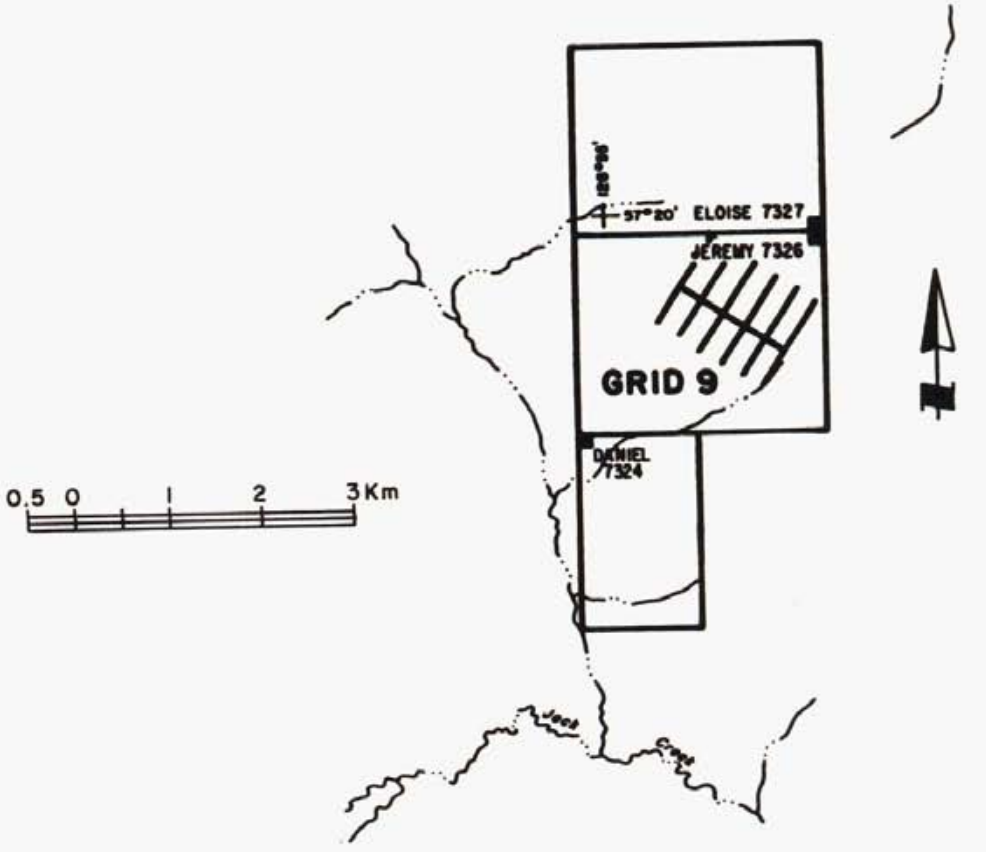
The subject claims are described below and illustrated on Figure 1.

| CLAIM NAME | UNITS | RECORD NO. | RECORD DATE |
|---|---|---|---|
| **DANIEL** | 8 | 7324 | Sept. 26,1985 |
| **JEREMY** | 20 | 7326 | Sept. 26,1985 |
| **ELOISE** | 20 | 7327 | Sept. 26,1985 |

## LOCATION AND ACCESS

The Toodoggone River area is located approximately 280 kilometres north of Smithers, B.C. The subject claims are located north of Jock Creek just to the north and west of the Pillar. This location is also some 9 kilometres south of Toodoggone Lake and 17 km northeast of the Sturdee River Airstrip in NTS 94E/7W and the Omineca Mining Division.




# TOODOGGONE GOLD INC.

## ELOISE, JEREMY & DANIEL CLAIMS

### LOCATION AND CLAIMS MAP

FIGURE 1

Approximate geographical coordinates of the centre of the claims are latitude 57°19'N and longitude 126°54'W. Access to the area is normally achieved via fixed wing aircraft form Smithers, B.C. to the Sturdee River airstrip. Historically, a number of helicopter companies have established summer bases at the Sturdee River airstrip and have been available for casual charter to nearby areas.

**PHYSIOGRAPHY**

The Toodoggone area lies between an elevation of 1200 to 2300 metres. The **Jeremy Group** lies between 1300 to 2100 metres. The property covers three ridges with deeply incised valleys. The peaks of these ridges are the nearest to the original Paleosurface of the area which surrounds the property.

The Toodoggone area has a northern continental climate with warm summers and cold winters. Snow cover is generally moderately deep, reaching up to 8 feet of packed snow by the end of winter.

**HISTORY**

The Toodoggone area was investigated for placer gold in the 1920's and 1930's. A public company, Two Brothers Valley Gold Mines Ltd., undertook considerable test work, including drilling in 1934. Most of this work was directed towards the extensive gravel deposits lying principally near the junction of McClair Creek and the Toodoggone River.

Gold-silver mineralization was discovered on the Chappelle (Baker Mine) property by Kennco Explorations (Western) Ltd. in 1969. DuPont of Canada Exploration Ltd. acquired the

property in 1974 and began production at a milling rate of 90 tonnes per day in 1980.

Numerous other gold-silver discoveries were made in the 1970's and 1980's, including the Lawyers deposit which was discovered by Kennco in 1973 and optioned by Serem Ltd. in 1979. Work on this property to date has included considerable trenching, drilling and underground development. Currently, a feasibility study is underway.

Although, at this time only a small portion of the whole belt has been explored at depth, seven properties already show outlined gold-silver reserves. Of these, the three best known ones are: Baker Mines (Multinational) 52,000 tonnes 1.07 oz/tonne Au, 23,2 oz/tonne Ag; Lawyers (Serem Inc.) 561,000 tonnes 0.21 oz/tonne Au, 7.1 oz/tonne Ag; Al (Energex Minerals Ltd.) 160,000 tonnes 0.37 oz/tonne Au. Subsequently, the Lawyers reserves were increased to 1,4000,000 tonnes of unknown grade.

The Toodoggone area has therefore been the scene of intense exploration activity during the past five years, with numerous companies exploring more than 3,000 mineral claim units.

A regional program, constituting a survey of over 10,000 line kilometres of airborne magnetometer and VLF-electromagnetometer, was conducted in the Toodoggone Gold Belt area in early 1986 by Western Geophysical Aero Data Ltd. The magnetic data is available in contour form, and the VLF-EM data in profile format. This data was used to assist both the reconnaissance work, and the final geological mapping presented in this report. The magnetic data was used for mapping both regional and local geological structures. Localized variations were attributed to lithological changes

and two distinctive magnetic signatures were identified. Firstly, Jurassic intrusions appear as magnetic highs. Secondly, major fault and shear zones appeared as linear magnetic lows. The magnetic responses were interpreted as reflecting only the general geological environment, and did not map any mineralization directly.

The VLF-EM data was used to locate lineations inferred to drainage channels, conductive overburden lenses, faults, shears, alteration zones, disseminated and massive sulphide bodies.

Exploration work is known to have been performed on the vicinity of the claims area. Both the Atlas-Hercules and Argus claims have been worked on in the past. Serem's property was staked in 1981 after the discovery of stream geochemical anomalies. Subsequent work in 1981 and 1985 uncovered a quartz-calcedony breccia with assays of up to 2.67 oz/t silver (over 7m) and up to .024 oz/t gold (over 5m). The strike of the zone is northwest, toward the **Jeremy and Daniel** claims. It is to be noted that the Arg showing, which is located both on the intersection of two block faults, and to the west along one of these faults, is the quartz-pyrite showing on the **Daniel** claim. The **Eloise, Jeremy and Daniel** claims were covered by an airborne magnetic and VLF-EM survey, as part of a larger 1986 regional survey. Approximately 191 line kilometers were flown over the property. The magnetic data reveals a generally high magnetic susceptibility. This suggests the presence of a buried intrusive on all of the claims area, except for most the **Daniel** claim. The VLF-EM survey shows a number of conductors. Of special interest is the longest conductor, related to the Xenos showing. It traverses the northwest corner of the **Eloise** claim (see Figure 3).

## 1987 WORK PROGRAM

In mid August 1987, field work was carried out by Josef Seywerd, Mohamad Bekdache and several technicians. The following survey was carried out:

1) Geological mapping was carried out by J.Seywerd and M.Bekdache on the **Ben** claim at a scale of 1:25000.

2) Rock chips were taken from ridges and saddles on the **Jeremy** claim. A total of 14 samples were taken from this property near porphyry dikes crossed by mafic dikes.

3) One grid (#9) of 'B' horizon soil sampling was carried out by M.Niedswicki, G.Hagguist, P.Judson and L.Morgan. The grid was tied to a small lake on the **Jeremy** claim. 10-25 cm depth

## REGIONAL GEOLOGY

The general geology of the area is shown on "Preliminary Map 61", B.C. Ministry of Energy, Mines and Petroleum Resources, L.J. Diakow, A. Panteleyev and T.G. Schroeter, 1985 (on Open File), and Geologic Survey of Canada, H. Gabrielse, C.J. Dodds, J.L. Mansy and G.H. Eisbacher, 1977 (Figure 2).

The Toodoggone River area is set within the Intermontaine Belt. The main geologic units are the Upper Cretaceous Sustut Group, Jurassic undivided volcanics of Hazelton group, the Upper Triassic Takla Group and Permian carbonate units thought to belong to the Asitka Group. Several intrusive bodies of quartz monzonitic to grano-dioritic composition, irregular in size and shape (belonging to the Omineca Intrusives) intruded the volcano-sedimentary complex

in several localities. Swarms of dykes and small stocks are related to these intrusions.

A distinctive volcanogenic complex of early Jurassic age (called the Toodoggone volcanics), consisting of a subaerial pyroclastic assemblage with mostly andesitic composition is widely spread through the Toodoggone River area. This complex seems to be equivalent to the lower part of the Hazelton group, and is probably associated with the Omineca Intrusions.

From the paleogeographic interpretation, it seems that the following sequence of events contributed to today's existence and distribution of stratigraphic units.

Initially, the Asitka group limestones were deposited in a marine environment. The Takla rocks are the product of a volcanic event that may have been accompanied by an uplift of the whole area (possibly changing the environment from submarine to sub-areal). The result is a complex of interlayered volcanic and sedimentary units. This was followed by a period of regression and related deformations. Next was a volcanic episode during which the Hazelton volcanics and related cyclic Toodoggone Volcanic rocks were formed. In the Toodoggone Belt, the event started with a quartzose acidic extrusion, followed by a mafic extrusion, and then by several intermediate extrusions. Much of the volcanics were porphyritic flows but within each cycle there are pyroclasitic units and conglomerates, lahars and sandstones (reworked pyroclasitics).

Of the structural elements, the most prominent are three fault zones, trending northwest-southeast. These are intermittently exposed where outcrop is developed, and are clearly outlined by the airborne geophysics. They had a

major role not only in the distribution of geologic units, but also in the deposition of minerals. The same northwest-southeast trend is also the general strike of the majority of the lithostratigraphic members.

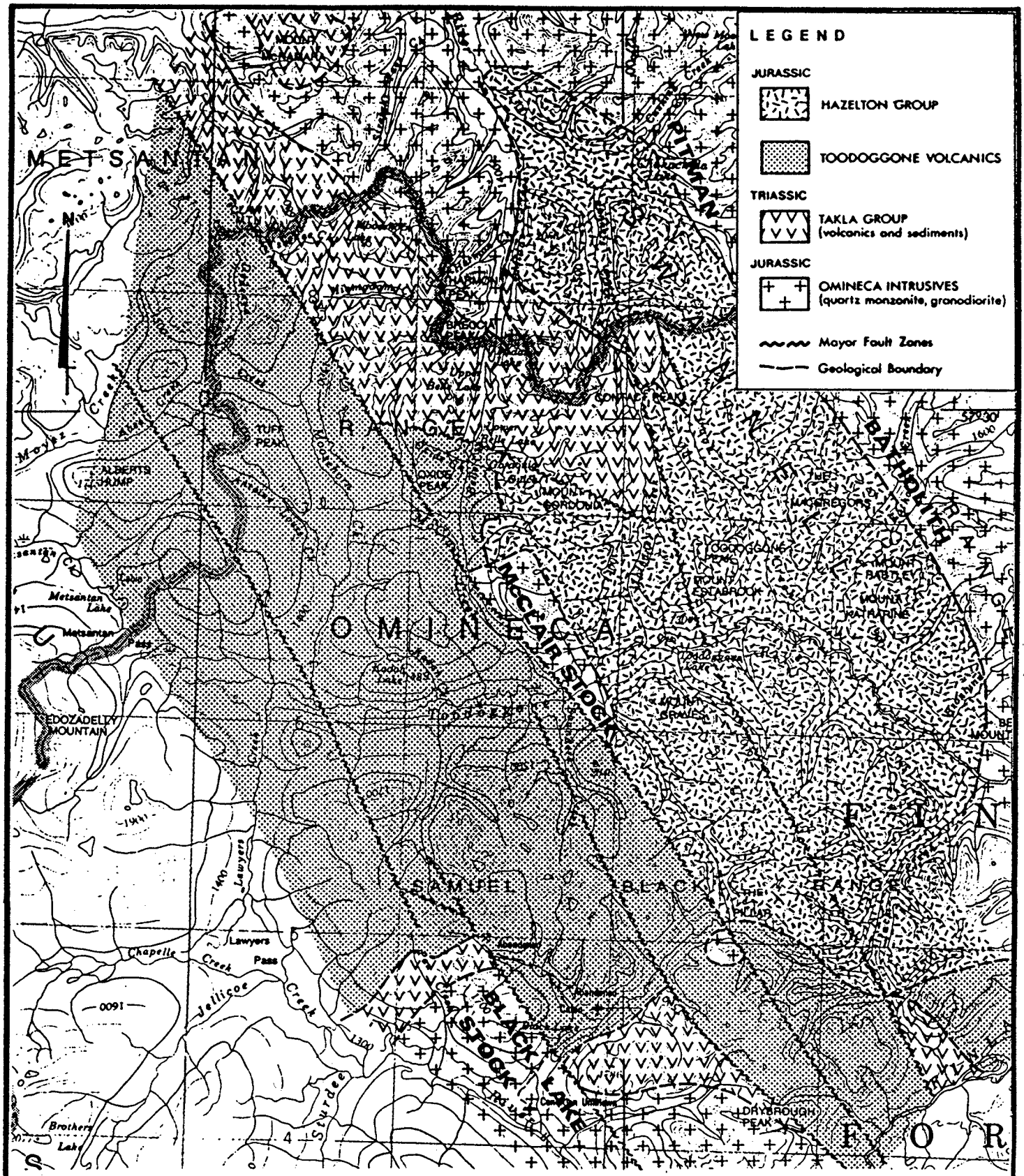
Local uplifts accompanying intrusions resulted in several domal structures, and are characterized by a circular distribution of volcano-sedimentary units surrounding an intrusive core.

The Toodoggone River area is an important host of numerous precious metal and base metal prospects. Four main mineral deposit types have been identified:

- porphyry - occurring mainly in Takla Group volcanics and Omineca intrusives.
- skarn - contact of limestones (Asitka, and some in Takla) with intrusives.
- stratabound - occurring in Takla limestones interbedded with cherts.
- epithermal - occurring mainly in Toodoggone Volcanics and in Takla rocks.

Of the four, the epithermal type is the most important, and has been divided into two subtypes: fissure vein deposits associated with fracture zones and possibly cauldera formations, and hydrothermally altered and mineralized deposits (associated with major fault zones).

The most common of the ore minerals in epithermal type deposits are argentite, electrum, native gold and silver. Of this type, the Baker Mine and the Lawyers Deposit are the two most prominent deposits in the area. For generalized geology refer to Figure 2.




# TOODOGGONE GOLD INC.

## ELOISE JEREMY & DANIEL CLAIMS

### REGIONAL GEOLOGY

FIG. 2

## LOCAL GEOLOGY

The claim area is underlain by Lower Jurassic undivided Toodoggone volcanics (equivalent to the foot of the Hazelton Group). The group consists of feldspar porphyritic andesite flow, fragmental andesite tuffs and basaltic andesite. Pyroclastic formations (heavily deformed) are mapped on the northwest corner of the **Jeremy** claim. Swarmy dikes cut the volcanic sequence and Late mafic dykes cut the entire sequence - including the porphyritic dikes.

A regional northwest trending fault zone, is located a short distance west of the claims and in this area, and divides the volcanics from the Omineca Intrusion. At least one northwest fault zone cuts the claim, and is accompanied by a dyke swarm, which also generally parallels this fault zone.

The **Jeremy and Daniel** claims were covered by an airborne magnetic and VLF-EM survey, as part of a larger regional survey described in the "History" section of this report. The magnetic data reveals a generally high magnetic susceptibility suggesting the presence of a buried intrusive on all of the claims area except for most of the **Daniel** claim. This hypothesis is supported by the presence of a dyke swarm (trending northwest-southeast), an area of gossan, and by the presence of block faulting, as interpreted from linear lows on the aeromagnetic maps. Reconnaissance in the **Jeremy** claim and in its close proximity, confirms that the magnetic mapping and the buried intrusion is outcropping in several locations coincident to the upper sides of valley glaciers.

It appears that the volcanics of the lower Jurassic undivided Toodoggone volcanics, are intruded and pushed by a block of Omineca intrusive. This uplift is preceded by a

# LEGEND

## QUATERNARY

### PLEISTOCENE AND RECENT

UNCONSOLIDATED GLACIAL, FLUVIOGLACIAL, ALLUVIAL, AND COLLUVIAL DEPOSITS

## CRETACEOUS

### UPPER CRETACEOUS

**SUSTUT GROUP (TANGO CREEK FORMATION)**

K — POLYMICTIC CONGLOMERATE, SANDSTONE, SHALE, CARBONACEOUS MUDSTONE

## JURASSIC

### LOWER AND (?) MIDDLE JURASSIC

**"TOODOGGONE VOLCANICS" - (?) HAZELTON GROUP**

9 — UNDIVIDED: PREDOMINANTLY GREY, GREEN, PURPLE AND ORANGE-BROWN HORNBLENDE PLAGIOCLASE AND PLAGIOCLASE PHYRIC ANDESITE PORPHYRY FLOWS, TUFFS, BRECCIA SOME LAHAR, CONGLOMERATE, GREYWACKE, SILTSTONE, RARE RHYOLITE-PERLITE. *INCLUDES SOME DYKES AND SILLS*

### LOWER TO MIDDLE JURASSIC

**"TOODOGGONE VOLCANICS" (CARTER, 1972)**

*"GREY DACITE"*

8 — DARK TO PALE GREY OR GREEN QUARTZOSE BIOTITE HORNBLENDE PLAGIOCLASE ASH FLOWS OF ANDESITIC AND RARELY DACITIC COMPOSITION. VARIABLY WELDED WITH LOCALLY WELL-DEVELOPED COMPACTION LAYERING; CONTAINS ABUNDANT GREY DACITE AND RARE GRANITIC CLASTS; OUTCROPS ARE COMMONLY BLOCKY AND STRONGLY JOINTED — 182 ± 8, 183 ± 8 Ma (GSC) HORNBLENDE

8A — POLYMICTIC CONGLOMERATE WITH ABUNDANT TAKLA AND GREY DACITE CLASTS IN A QUARTZOSE SANDSTONE MATRIX

8B — GREYWACKE, CONGLOMERATE DERIVED ENTIRELY FROM GREY DACITE

*TOODOGGONE CRYSTAL ASH TUFFS AND FLOWS*

7 — RECESSIVE, GREY, MAUVE, PURPLE QUARTZOSE PLAGIOCLASE CRYSTAL TUFF, LAPILLI TUFF, AND BRECCIA, WITH LESSER AGGLOMERATE, LAHAR, AND EPICLASTIC BEDS; INCLUDES SOME WELDED TUFFS AND PYROXENE HORNBLENDE FELDSPAR PORPHYRY FLOWS WHICH ARE LOCALLY DOMINANT; SOME MEMBERS CONTAIN NO QUARTZ, PINK WEATHERING WHERE LAUMONTITE IS ABUNDANT — 189 ± 6 Ma HORNBLENDE

7A — *EPICLASTIC RED BEDS* — ARKOSIC SANDSTONE, SILTSTONE, CONGLOMERATE, AND *SLIDE DEBRIS; CONTAINS SOME CRYSTAL TUFF*

*TUFF PEAK FORMATION*

6 — PALE PURPLE, GREY, AND GREEN BIOTITE AUGITE HORNBLENDE PLAGIOCLASE PORPHYRY FLOWS; SOME AUTOBRECCIATED FLOWS, MINOR SILLS AND PLUGS, SOME CRYSTAL AND LAPILLI TUFF — 197 ± 7 Ma BIOTITE 200 ± 7 Ma HORNBLENDE

6A — CONGLOMERATE OR LAHAR DERIVED FROM UNITS 6 AND 6B, WITH GRADED AND CROSSLAMINATED MUDSTONE AND SANDSTONE INTERBEDS, DEBRIS FLOWS, LAPILLI AND CRYSTAL TUFFS

6B — FLOWS SIMILAR TO UNIT 6 BUT CONTAINING SPARSE ORTHOCLASE MEGACRYSTS

*McCLAIR CREEK FORMATION*

5 — PURPLE, LAVENDER, GREY, RARELY GREY-GREEN, "CROWDED" FINE TO MEDIUM-GRAINED PLAGIOCLASE PORPHYRITIC FLOWS; INCLUDES SOME LAPILLI TUFF, BRECCIA, AND MINOR EPICLASTIC BEDS

5A — INTRUSIVE DOME WITH AUTOBRECCIATED CARAPACE AND FLANKING BRECCIA

*MAFIC FLOW AND TUFF UNIT*

4 — *BASALT FLOWS*— THIN BEDDED, PURPLE TO DARK GREEN, COMMONLY EPIDOTIZED, FINE-GRAINED PYROXENE BASALT FLOWS AND TUFFS; INCLUDES SOME SILLS AND *DYKES*

4A — PURPLE TO MAUVE, MEDIUM-GRAINED PORPHYRITIC BASALT; LOCALLY MAUVE TO PINK, ZEOLITIZED WITH LAUMONTITE, POSSIBLE INTRUSIVE (LACCOLITH)

4B — LAPILLI, CRYSTAL, AND ASH TUFF; WELL BEDDED, INCLUDES MINOR THINLY BEDDED SANDSTONE AND RARE CALCAREOUS SILTSTONE (MARL), TOTALLY OR IN PART EQUIVALENT TO UNIT 7

4C — PYROXENE BIOTITE HORNBLENDE PORPHYRY FLOWS WITH TRACES OF QUARTZ AND K-FELDSPAR, INTERBEDDED MINOR BRECCIA AND LAPILLI TUFF, TOTALLY OR IN PART EQUIVALENT TO UNIT 6

## JURASSIC *(CONTINUED)*

### LOWER TO MIDDLE JURASSIC *(CONTINUED)*

**"TOODOGGONE VOLCANICS" (CARTER, 1972) *(CONTINUED)***

*LAWYERS—METSANTAN QUARTZOSE ANDESITE*

3 — GREEN TO GREY *QUARTZOSE PYROXENE (?) BIOTITE* HORNBLENDE PLAGIOCLASE PORPHYRY FLOWS AND TUFFS. QUARTZ CONTENT RANGES FROM NEGLIGIBLE TO ABOUT 3 PER CENT. IN THE NORTH FLOWS PREDOMINATE WITH LOCAL FLOW BRECCIA, LAPILLI TUFF, AND RARE WELDED TUFF UNITS; TOWARD THE SOUTH ASH FLOWS ARE COMMON, INCLUDING RARE SURGE DEPOSITS. THE UNIT CONTAINS EXTENSIVE ZONES OF EPIDOTIZED, PYRITIC ROCK WITH CHARACTERISTIC SALMON, PINK, AND ORANGE PLAGIOCLASE CRYSTALS — 168 ± 6 Ma HYDROTHERMAL ADULARIA

*MOYEZ CREEK VOLCANICLASTICS*

2 — CONGLOMERATE WITH SOME GRANITIC CLASTS, GRADED, CROSS-BEDDED GREYWACKE, WELL-BEDDED CRYSTAL TUFF, EPICLASTIC SEDIMENTS; LOCAL LAMINATED CALCAREOUS SILT (MARL), RARE THIN LIMESTONE AND CHERT; LOCAL COARSE LANDSLIDE DEBRIS AND LAHAR. IN PART OR TOTALLY EQUIVALENT TO UNIT 6A

2A — CRYSTAL TUFFS IN THIN, WELL-LAYERED UNITS; SOME EPICLASTIC SANDSTONE *AND MUDSTONE*; RARE PLANT FRAGMENTS IN SOME BEDS; MINOR LAPILLI TUFF

*ADDOOGATCHO CREEK FORMATION*

1 — PALE REDDISH GREY TO DARK RED-BROWN QUARTZOSE BIOTITE HORNBLENDE PHYRIC ASH FLOWS; THE ROCKS CONTAIN MINOR SANIDINE AND RARE AUGITE. WELDING IS WIDESPREAD AND RANGES FROM INCIPIENT TO EUTAXITIC; LOCALLY ORANGE TO BROWN VITROPHYRIC CLASTS ARE COMMON. INCLUDES LAPILLI TUFF AND BRECCIA UNITS AS WELL AS MINOR LAYERED GROUND SURGE DEPOSITS — 199 ± 7, 202 ± 7 Ma BIOTITE 200 ± 7 Ma HORNBLENDE 190 ± 7 Ma HYDROTHERMAL ALUNITE (WHOLE ROCK) 204 ± 7 Ma BIOTITE

1A — CRYSTAL ASH TUFF, LAPILLI TUFF, AND RARE AGGLOMERATE WITH INTERSPERSED EPICLASTIC BEDS. TUFFACEOUS SEDIMENTS AND MINOR CONGLOMERATE THAT LOCALLY CONTAINS GRANITIC CLASTS; MINOR HORNBLENDE PLAGIOCLASE PHYRIC FLOWS FORMING SINGLE OR THIN COMPOSITE FLOW UNITS

1B — *QUARTZOSE PLAGIOCLASE PORPHYRY*— JOINTED, DOMAL INTRUSION (?) OF HOMOGENOUS-APPEARING GREY TO GREEN, CHLORITIZED AND EPIDOTE-ALTERED ROCK CONTAINING ABUNDANT INCLUSIONS OF TAKLA VOLCANICS AND RARE METAMORPHIC ROCK CLASTS

## TRIASSIC

### UPPER TRIASSIC

**TALKA GROUP**

DARK GREEN AUGITE PORPHYRY BASALT FLOWS AND BRECCIAS WITH LESSER FINE-GRAINED ANDESITE TO BASALT FLOWS AND MINOR INTERBEDDED SILTSTONE, TUFFACEOUS SEDIMENTS, AND CHERT. CONTAINS LIMESTONE LENSES THAT MAY BE PART OF THE "ASITKA GROUP"

## PALEOZOIC

### PERMIAN

P — ASITKA GROUP?

PREDOMINANTLY LIMESTONE (INCLUDING MARBLE AND MINOR SKARN) WITH SOME ARGILLITE, BLACK SHALE, AND CHERT. UNITS COMPOSED OF LIMESTONE, CHERT, ARGILLITE, AND BASALT (*Pv, c*) MAY BE, IN PART, OR TOTALLY TAKLA GROUP

## INTRUSIVE ROCKS

### JURASSIC

**LOWER JURASSIC (DYKES, SILLS, AND SMALL PLUGS)**

A — BASALT

B — AUGITE HORNBLENDE PORPHYRY — BASALTIC STOCK, DOMAL INTRUSION (OR TAKLA INLIER) — 210 ± 8 Ma HORNBLENDE

C — BIOTITE HORNBLENDE *DIORITE/GABBRO*

D — PYROXENE PLAGIOCLASE PORPHYRY

**LOWER TO MIDDLE JURASSIC (DYKES AND STOCKS)**

E — QUARTZ MONZONITE, GRANODIORITE—MEGACRYSTIC IN PART; MINOR SYENITE OR QUARTZOSE SYENITE ALONG CONTACTS

E1 — GRANODIORITE, QUARTZ DIORITE — MEDIUM GRAINED, PORPHYRITIC, FOLIATED IN PART

F — FELDSPAR PORPHYRY, HORNBLENDE FELDSPAR PORPHYRY — DYKES AND PLUGS; RARE QUARTZ FELDSPAR PORPHYRY

## SYMBOLS

MINERAL OCCURRENCE (MINERAL INVENTORY FILE NUMBER) ..... × 43

MINERAL PROSPECT (MINERAL INVENTORY FILE NUMBER) ..... ⚒ 34

EXPLORATION CAMP ..... ⊖

PLACER WORKINGS ..... ⁂

PARK BOUNDARY ..... ———

ROAD ..... ———

MAIN OUTCROP AREAS ..... ◌

FAULT (OBSERVED, INFERRED) ..... ———

THRUST OR REVERSE FAULT (OBSERVED, INFERRED) ..... ▲▲▲▲▲

GEOLOGIC CONTACT (DEFINED, ASSUMED) ..... ———

BEDDING, LAYERING, FOLIATION (HORIZONTAL, INCLINED, VERTICAL) ..... + 19

FOLD AXES .....

GEOLOGICAL BRANCH
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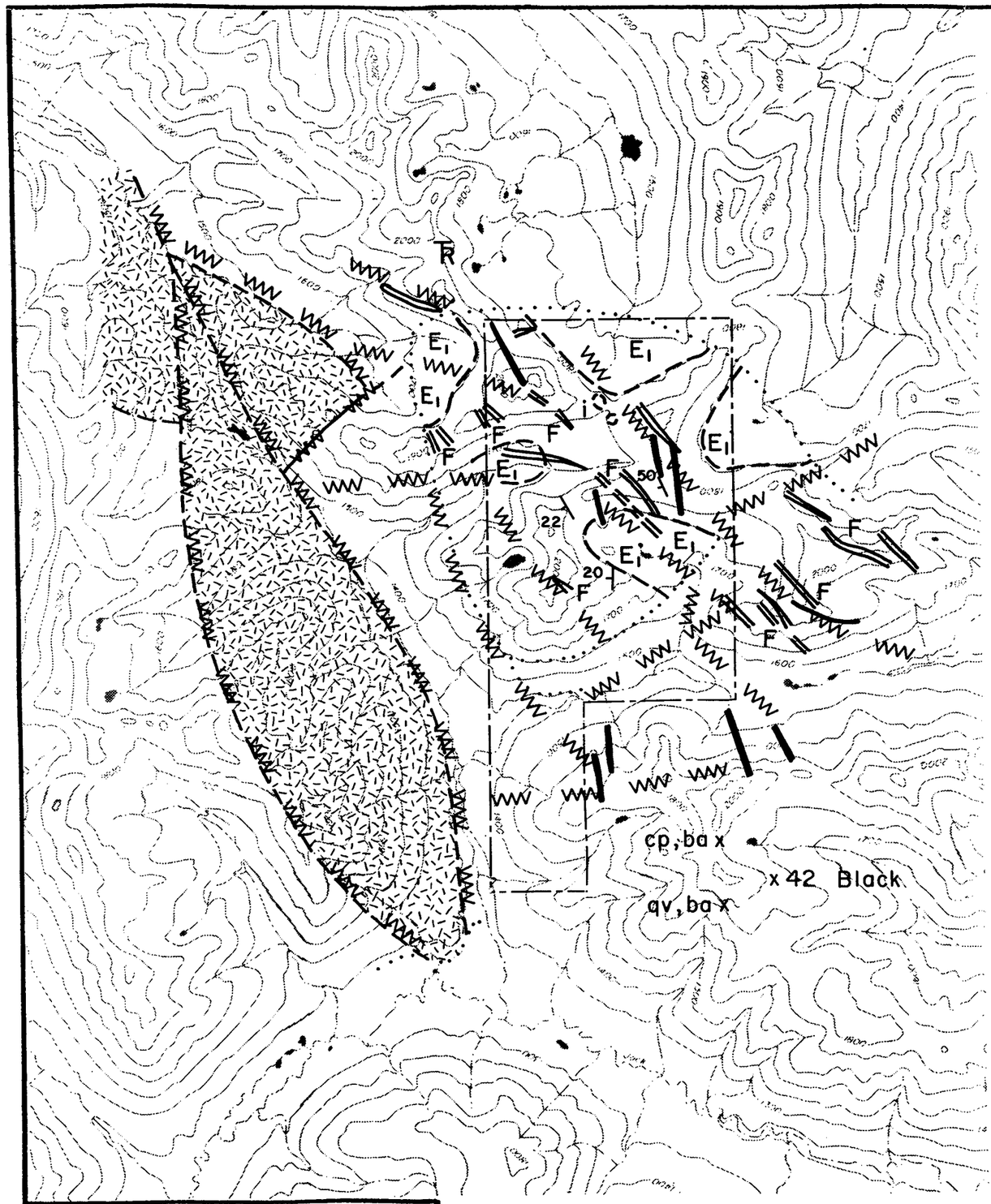
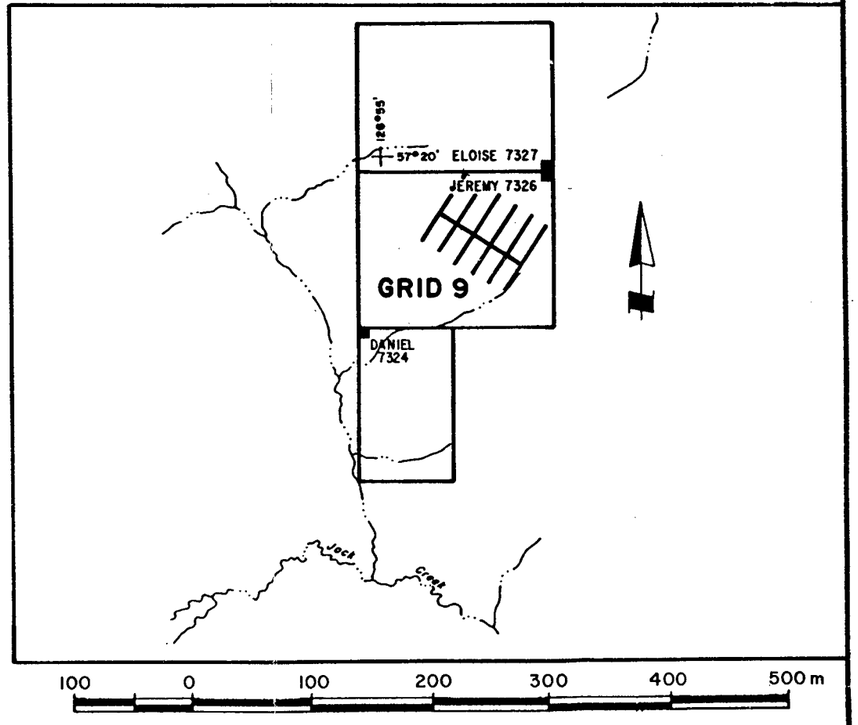



WHITE GEOPHYSICAL INC.

BURIED INTRUSIVE

N.T.S. 94 E/7W




**TOODOGGONE GOLD INC.**

TOODOGGONE PROPERTIES
JEREMY CLAIM GROUP - GRID 9
LOCAL GEOLOGY

DATE : AUG., 1987

FIG. 3

folding and faulting activity. The local geology map (Figure 3) shows an elongated intrusive on the west side of the claims area, and two crossing fault systems suggesting the presence of a lateral pressure in a west-east direction. The folding activity is evidenced in the **Jeremy** claim by the deformed pyroclastic formations in the area visited and staked by the writer (see Figure 4).

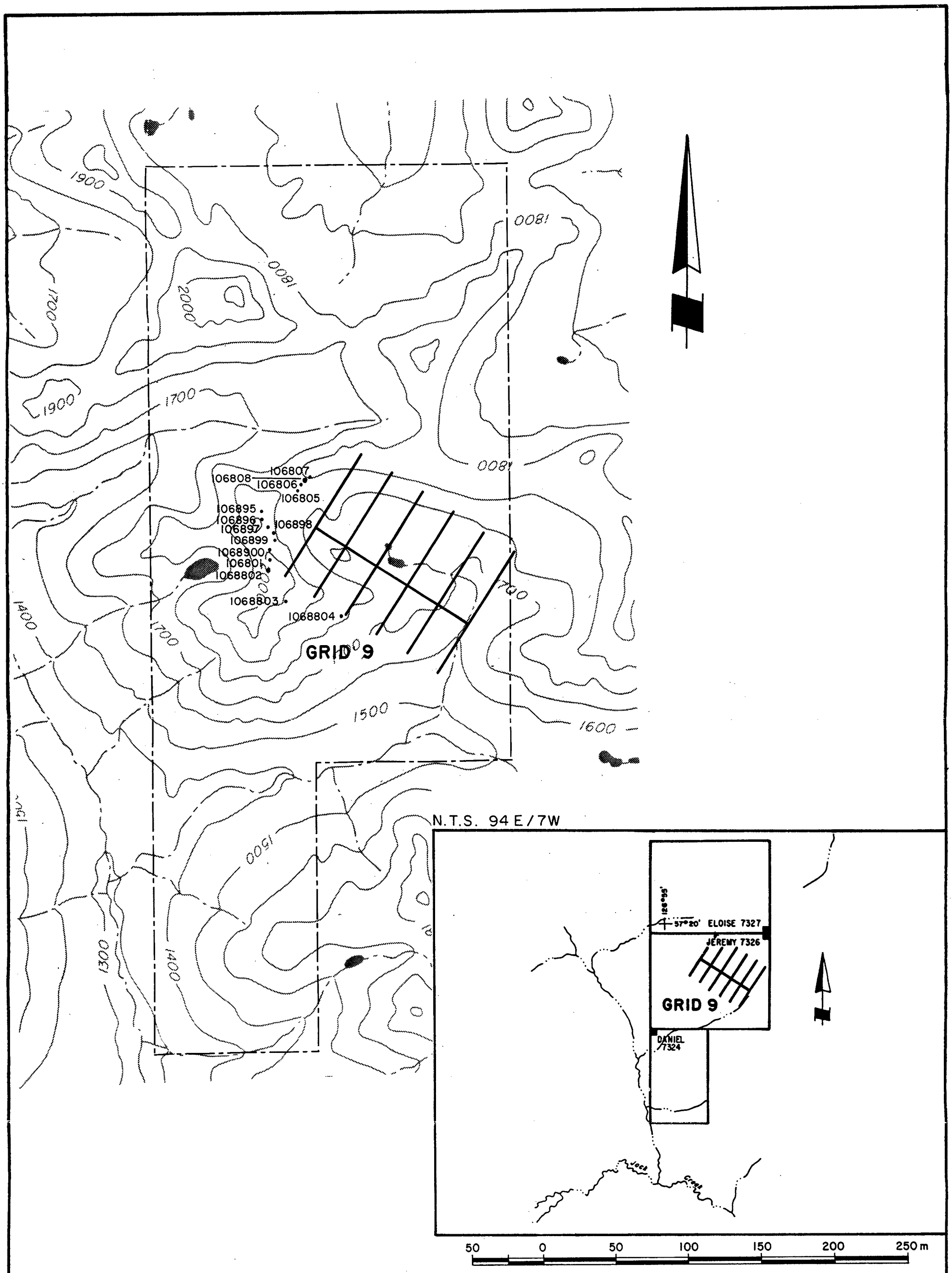
The mineralized breccia formation reported in the vicinity of the property could exist within the claims area itself. However, the geochemical samples collected on the **Jeremy** claim are not sufficient in themselves to be conclusive.

**CONCLUSION AND RECOMMENDATIONS**

This property is a very good exploration target with good potential to contain significant mineralization. Numerous showings, both on and off the claims, are associated with fault zones in what appears to be the roof pendant of Toodoggone volcanics located above the Jurassic intrusive. Notwithstanding, precious metals hosted by quartz-calcedony breccia could possibly be found along the western boundary of the claims group where the contact zone occurs between the elongated intrusive and the volcanics which form the property's ridges.

Further work should consist of further geological and geochemical surveys on the **Jeremy Group** claims in the area of showings, Gossans, faults and dike swarms.

The soil sampling should follow the contact lines between the buried intrusion and the volcanics. The rock sampling should be concentrated on ridges and volcanics on the west side of the claims. Geological mapping and rock prospecting should delineate breccia formations.




GEOLOGICAL BRANCH
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# TOODOGGONE GOLD INC.

TOODOGGONE PROPERTIES

## JEREMY CLAIM GROUP - GRID 9
## GEOCHEMICAL SAMPLES

DATE : AUGUST , 1987

FIG. 4

Upon positive results, a stage of extensive geophysical work should accurately outline targets for both trenching and diamond drilling.

Respectfully submitted,

Mohamad Bekdache,
Geological Engineer

Josef Seywerd,
Geologist

**REFERENCES**


ASHTON, Arthur — "Geological, Geochemical & physical report on the Argus Group, Adrian, Paul, Ian, Otto, Argus 1 and Argus 2 Mineral claims." For Rhyolite Resources Inc. and Clive Ashworth Operator: Rhyolite Resources Inc. 1986, Assessment Report.

CUKOR, V. — "Beachview Resources Ltd., Toodoggone Properties," by NVC Engineering Ltd., for Beachview Resources Ltd., Engineering Report, 1987.

CUKOR, V. — "Toodoggone Gold Inc., Toodoggone River properties", by NVC Engineering Ltd., for Toodoggone Gold Inc., Engineering Report, 1987.

HILLS, E. Sherbon — Elements of Structural Geology, Methuen & Co. Ltd. & Sciences Paperbacks, Printed in Great Britain by Richard Clay (The Chaucer Press) Ltd., Bungay, Suffolk, 1963.

**COST BREAKDOWN**

| Personnel | Dates | Wages Per Diam | Total |
|---|---|---|---|
| J.Seywerd, Geologist | Aug.12/87 | $325 | $ 325.00 |
| M.Bekdache, Geo.Eng. | Aug.12,14/87 | 275 | 550.00 |
| M.Niedzwiecki, Technician | Aug.13/87 | 250 | 250.00 |
| B.Acheson, Technician | Aug.12/87 | 250 | 250.00 |
| P.Judson | Aug.13/87 | 225 | 225.00 |
| L.Morgan | Aug.13/87 | 225 | 225.00 |
| G.Hagquist | Aug.12/87 | 225 | 225.00 |
| Helicopter 1.5 hr. @ $650/hr | | | 975.00 |
| Soil Samples 121 samples @ $25/sample | | | 3,025.00 |
| Rock samples 14 samples @ $25/sample | | | 350.00 |
| Room and board 8 man days @ $100/man day | | | 800.00 |
| Data Compilation and drafting | | | 500.00 |
| Report Writing and data interpretation | | | 500.00 |
| | | TOTAL | $8,200.00 |

**STATEMENT OF QUALIFICATIONS**

NAME: Bekdache, Mohamad

PROFESSION: Geological Engineer

EDUCATION: Ecole polytechnique du Montreal
Universite du Montreal
B.Ing., Bachelor Degree (1978)

PROFESSIONAL ASSOCIATION: Ordre des Ingenieurs du Quebec

LANGUAGES: English, French, Arabic

EXPERIENCE: Two years geological, geophysical and geotechnical exploration in British Columbia, Yukon, Quebec, Morocco, Lebanon.

## STATEMENT OF QUALIFICATION

NAME: Seywerd, Josef

PROFESSION: Geologist

EDUCATION: University of British Columbia
B.Sc., Geology (1985)

EXPERIENCE: Three season geological assistant Noranda Explorations Ltd. NWT and British Columbia. Mapping, Rock sampling, Trenching, geochemical sampling, Track-etch surveys, Scintelometer surveys and Induced polarization surveys. 1981-1983.

One season geologist on geophysical crew White Geophysical Inc. Mapping, geochemical sampling, rock sampling and aiding in geological interpretation and geophysical data. 1986

# APPENDIX - GEOCHEMISTRY RESULTS

**Chemex Labs Ltd.**
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: WHITE GEOPHYSICAL INC.

11751 BRIDGEPORT RD.
RICHMOND, BC
V6X 1T5

A8722876

Comments:

# CERTIFICATE A8722876

WHITE GEOPHYSICAL INC.
PROJECT : BEACH VIEW
P.O.# :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 8-OCT-87.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION |
|---|---|---|
| 205 | 50 | Rock & core: Ring |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION | METHOD | DETECTION LIMIT | UPPER LIMIT |
|---|---|---|---|---|---|
| 2 | 50 | Cu ppm: HNO3-aqua regia digest | AAS | 1 | 10000 |
| 4 | 50 | Pb ppm: HNO3-aqua regia digest | AAS-BKGD CORR | 1 | 10000 |
| 5 | 50 | Zn ppm: HNO3-aqua regia digest | AAS | 1 | 10000 |
| 6 | 50 | Ag ppm: HNO3-aqua regia digest | AAS-BKGD CORR | 0.1 | 200 |
| 100 | 50 | Au ppb: Fuse 10 g sample | FA-AAS | 5 | 10000 |

# Chemex Labs Ltd.

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PHONE (604) 984-0221


To : WHITE GEOPHYSICAL INC.

11751 BRIDGEPORT RD.
RICHMOND, BC
V6X 1T5

Project : BEACH VIEW
Comments:

**Page No. : 1
Tot. Pages: 2
Date : 8-OCT-87
Invoice # : I-8722876
P.O. # :

## CERTIFICATE OF ANALYSIS A8722876

| SAMPLE DESCRIPTION | PREP CODE | | Cu ppm | Pb ppm | Zn ppm | Ag ppm Aqua R | Au ppb FA+AA |
|---|---|---|---|---|---|---|---|
| 106501 | 205 | --- | 21 | 5 | 72 | 0.1 | < 5 |
| 106502 | 205 | --- | 22 | 6 | 74 | 0.1 | < 5 |
| 106503 | 205 | --- | 12 | 5 | 51 | 0.1 | < 5 |
| 106505 | 205 | --- | 51 | 7 | 117 | 0.8 | 50 |
| 106506 | 205 | --- | 77 | 6 | 107 | 0.7 | 35 |
| 106507 | 205 | --- | 78 | 1 | 72 | 0.5 | 25 |
| 106509 | 205 | --- | 44 | 4 | 89 | 0.4 | 15 |
| 106510 | 205 | --- | 65 | 2 | 58 | 0.5 | 20 |
| 106511 | 205 | --- | 14 | 1 | 52 | 0.1 | < 5 |
| 106512 | 205 | --- | 57 | 1 | 30 | 0.3 | < 5 |
| 106513 | 205 | --- | 64 | 2 | 27 | 0.4 | 25 |
| 106514 | 205 | --- | 126 | 1 | 25 | 0.5 | 20 |
| 106515 | 205 | --- | 68 | 1 | 51 | 0.4 | 15 |
| 106516 | 205 | --- | 74 | 1 | 51 | 0.5 | 40 |
| 106517 | 205 | --- | 32 | 1 | 23 | 0.4 | 90 |
| 106802 | 205 | --- | 5 | 3 | 31 | 0.1 | < 5 |
| 106804 | 205 | --- | 90 | 2 | 95 | 0.1 | < 5 |
| 106805 | 205 | --- | 12 | 1 | 75 | 0.1 | < 5 |
| 106807 | 205 | --- | 52 | 1 | 86 | 0.1 | < 5 |
| 106809 | 205 | --- | 41 | 44 | 212 | 0.4 | < 5 |
| 106811 | 205 | --- | 50 | 18 | 47 | 0.3 | 30 |
| 106812 | 205 | --- | 16 | 29 | 47 | 0.7 | 20 |
| 106813 | 205 | --- | 48 | 680 | 82 | 2.3 | 15 |
| 106814 | 205 | --- | 9 | 31 | 135 | 0.6 | 20 |
| 106815 | 205 | --- | 4 | 19 | 123 | 0.2 | < 5 |
| 106817 | 205 | --- | 2 | 1 | 5 | 0.1 | < 5 |
| 106818 | 205 | --- | 6 | 10 | 120 | 0.1 | < 5 |
| 106819 | 205 | --- | 63 | 7 | 52 | 0.1 | < 5 |
| 106825 | 205 | --- | 133 | 1 | 74 | 0.1 | < 5 |
| 106826 | 205 | --- | 19 | 50 | 37 | 0.3 | < 5 |
| 106827 | 205 | --- | 13 | 22 | 90 | 0.9 | 10 |
| 106828 | 205 | --- | 9 | 53 | 89 | 0.7 | 5 |
| 106840 | 205 | --- | 4 | 1 | 46 | 0.1 | < 5 |
| 106841 | 205 | --- | 3 | 2 | 92 | 0.1 | < 5 |
| 106895 | 205 | --- | 63 | 21 | 140 | 0.4 | < 5 |
| 106896 | 205 | --- | 24 | 6 | 69 | 0.4 | < 5 |
| 106897 | 205 | --- | 5 | 7 | 75 | 0.1 | < 5 |
| 106898 | 205 | --- | 2 | 2 | 44 | 0.1 | < 5 |
| 106899 | 205 | --- | 63 | 2 | 184 | 0.4 | < 5 |
| 106921 | 205 | --- | 52 | 1 | 44 | 0.2 | < 5 |

CERTIFICATION : Stewart Buchan

# Chemex Labs Ltd.

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212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221


To : WHITE GEOPHYSICAL INC.

11751 BRIDGEPORT RD.
RICHMOND, BC
V6X 1T5

Project : BEACH VIEW
Comments:


Date : 8-OCT-87
Invoice # : I-8722876
P.O. # :

## CERTIFICATE OF ANALYSIS A8722876

| SAMPLE DESCRIPTION | PREP CODE | | Cu ppm | Pb ppm | Zn ppm | Ag ppm Aqua R | Au ppb FA+AA |
|---|---|---|---|---|---|---|---|
| 106922 | 205 | --- | 18 | 3 | 60 | 0.1 | < 5 |
| 106923 | 205 | --- | 16 | 1 | 39 | 0.1 | < 5 |
| 106925 | 205 | --- | 33 | 2 | 110 | 0.1 | < 5 |
| 106932 | 205 | --- | 7 | 2 | 29 | 0.1 | < 5 |
| 106933 | 205 | --- | 3 | 3 | 19 | 0.1 | < 5 |
| 106934 | 205 | --- | 5 | 4 | 38 | 0.1 | < 5 |
| 106935 | 205 | --- | 4 | 1 | 31 | 0.1 | 5 |
| 106937 | 205 | --- | 6 | 1 | 55 | 0.1 | 5 |
| 106939 | 205 | --- | 4 | 1 | 27 | 0.1 | < 5 |
| 106940 | 205 | --- | 24 | 1 | 160 | 0.1 | < 5 |

CERTIFICATION : Ian Bulder

**Chemex Labs Ltd.**
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212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: WHITE GEOPHYSICAL INC.

11751 BRIDGEPORT RD.
RICHMOND, BC
V6X 1T5

A8722869

Comments:

# CERTIFICATE A8722869

WHITE GEOPHYSICAL INC.
PROJECT : GRID 9
P.O.# :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 8-OCT-87.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION |
|---|---|---|
| 201 | 117 | Dry, sieve -80 mesh; soil, sed. |
| 203 | 4 | Dry, sieve -35 mesh and ring |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION | METHOD | DETECTION LIMIT | UPPER LIMIT |
|---|---|---|---|---|---|
| 2 | 121 | Cu ppm: HNO3-aqua regia digest | AAS | 1 | 10000 |
| 4 | 121 | Pb ppm: HNO3-aqua regia digest | AAS-BKGD CORR | 1 | 10000 |
| 5 | 121 | Zn ppm: HNO3-aqua regia digest | AAS | 1 | 10000 |
| 6 | 121 | Ag ppm: HNO3-aqua regia digest | AAS-BKGD CORR | 0.1 | 200 |
| 100 | 121 | Au ppb: Fuse 10 g sample | FA-AAS | 5 | 10000 |

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PHONE (604) 984-0221


To : WHITE GEOPHYSICAL INC.

11751 BRIDGEPORT RD.
RICHMOND, BC
V6X 1T5

Project : GRID 9
Comments:


Date : 8-OCT-87
Invoice # : I-8722869
P.O. # :

## CERTIFICATE OF ANALYSIS A8722869

| SAMPLE DESCRIPTION | PREP CODE | | Cu ppm | Pb ppm | Zn ppm | Ag ppm Aqua R | Au ppb FA+AA |
|---|---|---|---|---|---|---|---|
| G9L0E 0+50N | 201 | -- | 21 | 5 | 102 | 0.2 | < 5 |
| G9L0E 1+00N | 201 | -- | 60 | 8 | 103 | 0.1 | < 5 |
| G9L0E 1+50N | 201 | -- | 22 | 5 | 81 | 0.1 | < 5 |
| G9L0E 2+00N | 201 | -- | 14 | 6 | 69 | 0.1 | < 5 |
| G9L0E 2+50N | 201 | -- | 50 | 5 | 85 | 0.1 | < 5 |
| G9L0E 3+00N | 201 | -- | 42 | 8 | 90 | 0.1 | < 5 |
| G9L0E 3+50N | 201 | -- | 42 | 10 | 106 | 0.2 | < 5 |
| G9L0E 4+00N | 201 | -- | 37 | 18 | 84 | 1.0 | < 5 |
| G9L0E 0+00S | 201 | -- | 16 | 11 | 74 | 0.1 | < 5 |
| G9L0E 0+50S | 201 | -- | 20 | 8 | 88 | 0.1 | < 5 |
| G9L0E 1+00S | 201 | -- | 16 | 10 | 88 | 0.1 | < 5 |
| G9L0E 1+50S | 201 | -- | 32 | 18 | 110 | 0.1 | < 5 |
| G9L0E 2+00S | 201 | -- | 17 | 24 | 91 | 0.2 | < 5 |
| G9L0E 2+50S | 201 | -- | 18 | 28 | 121 | 0.1 | < 5 |
| G9L0E 3+00S | 201 | -- | 38 | 52 | 145 | 0.2 | < 5 |
| G9L0E 3+50S | 201 | -- | 15 | 12 | 77 | 0.3 | < 5 |
| G9L0E 4+00S | 201 | -- | 14 | 16 | 71 | 1.3 | < 5 |
| G9L2E 0+50N | 201 | -- | 22 | 12 | 68 | 0.1 | < 5 |
| G9L2E 1+00N | 201 | -- | 22 | 9 | 82 | 0.1 | < 5 |
| G9L2E 1+50N | 201 | -- | 17 | 14 | 75 | 0.1 | < 5 |
| G9L2E 2+00N | 201 | -- | 24 | 18 | 101 | 0.1 | < 5 |
| G9L2E 2+50N | 201 | -- | 11 | 18 | 44 | 0.1 | < 5 |
| G9L2E 3+00N | 201 | -- | 24 | 16 | 69 | 0.4 | 10 |
| G9L2E 3+50N | 201 | -- | 41 | 8 | 92 | 0.3 | < 5 |
| G9L2E 4+00N | 201 | -- | 38 | 6 | 85 | 0.4 | < 5 |
| G9L2E 4+50N | 201 | -- | 49 | 14 | 94 | 0.3 | 10 |
| G9L2E 5+00N | 201 | -- | 28 | 7 | 80 | 0.3 | < 5 |
| G9L2E 5+50N | 201 | -- | 27 | 6 | 71 | 0.1 | < 5 |
| G9L2E 6+00N | 201 | -- | 28 | 6 | 77 | 0.1 | < 5 |
| G9L2E 0+00S | 201 | -- | 10 | 10 | 37 | 0.1 | < 5 |
| G9L2E 0+50S | 201 | -- | 19 | 10 | 64 | 0.1 | < 5 |
| G9L2E 1+00S | 201 | -- | 14 | 8 | 74 | 0.1 | < 5 |
| G9L2E 1+50S | 201 | -- | 28 | 6 | 90 | 0.1 | < 5 |
| G9L2E 2+00S | 201 | -- | 30 | 7 | 101 | 0.1 | < 5 |
| G9L2E 2+50S | 201 | -- | 39 | 12 | 107 | 0.1 | < 5 |
| G9L2E 3+00S | 201 | -- | 40 | 6 | 103 | 0.1 | < 5 |
| G9L2E 3+50S | 201 | -- | 29 | 6 | 101 | 0.1 | < 5 |
| G9L2E 4+00S | 201 | -- | 28 | 20 | 136 | 0.3 | < 5 |
| G9L4E 0+00N | 201 | -- | 29 | 8 | 95 | 0.1 | < 5 |
| G9L4E 0+50N | 201 | -- | 20 | 6 | 77 | 0.3 | < 5 |

CERTIFICATION : Ian Bird

**Chemex Labs Ltd.**
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: WHITE GEOPHYSICAL INC.
11751 BRIDGEPORT RD.
RICHMOND, BC
V6X 1T5
Project : GRID 9
Comments:


Date : 8-OCT-87
Invoice # : I-8722869
P.O. # :

# CERTIFICATE OF ANALYSIS A8722869

| SAMPLE DESCRIPTION | PREP CODE | | Cu ppm | Pb ppm | Zn ppm | Ag ppm Aqua R | Au ppb FA+AA |
|---|---|---|---|---|---|---|---|
| G9L4E 1+00N | 201 | --- | 19 | 8 | 99 | 0.2 | < 5 |
| G9L4E 1+50N | 201 | --- | 19 | 8 | 69 | 0.1 | < 5 |
| G9L4E 2+00N | 201 | --- | 23 | 8 | 66 | 0.3 | < 5 |
| G9L4E 2+50N | 201 | --- | 19 | 10 | 91 | 0.2 | 45 |
| G9L4E 3+00N | 201 | --- | 15 | 12 | 75 | 0.3 | < 5 |
| G9L4E 3+50N | 201 | --- | 22 | 8 | 86 | 0.3 | < 5 |
| G9L4E 4+00N | 201 | --- | 30 | 10 | 81 | 0.1 | < 5 |
| G9L4E 5+00N | 201 | --- | 26 | 6 | 74 | 0.1 | < 5 |
| G9L4E 5+50N | 201 | --- | 33 | 6 | 82 | 0.1 | < 5 |
| G9L4E 6+00N | 201 | --- | 31 | 8 | 82 | 0.1 | < 5 |
| G9L4E 0+50S | 201 | --- | 23 | 8 | 83 | 0.1 | < 5 |
| G9L4E 1+00S | 201 | --- | 28 | 10 | 75 | 0.1 | < 5 |
| G9L4E 1+50S | 201 | --- | 24 | 9 | 77 | 0.1 | < 5 |
| G9L4E 2+00S | 201 | --- | 17 | 7 | 69 | 0.1 | < 5 |
| G9L4E 2+50S | 201 | --- | 20 | 1 | 65 | 0.1 | < 5 |
| G9L4E 3+00S | 201 | --- | 33 | 8 | 76 | 0.1 | < 5 |
| G9L4E 3+50S | 201 | --- | 32 | 18 | 73 | 0.1 | < 5 |
| G9L4E 4+00S | 201 | --- | 41 | 4 | 71 | 0.1 | < 5 |
| G9L6E 0+00N | 201 | --- | 21 | 14 | 70 | 0.1 | < 5 |
| G9L6E 0+50N | 201 | --- | 25 | 10 | 84 | 0.1 | < 5 |
| G9L6E 1+00N | 201 | --- | 24 | 8 | 69 | 0.1 | < 5 |
| G9L6E 1+50N | 201 | --- | 19 | 11 | 64 | 0.1 | < 5 |
| G9L6E 2+00N | 201 | --- | 20 | 9 | 71 | 0.1 | < 5 |
| G9L6E 2+50N | 201 | --- | 27 | 8 | 78 | 0.1 | < 5 |
| G9L6E 3+00N | 201 | --- | 21 | 12 | 57 | 0.1 | < 5 |
| G9L6E 3+50N | 201 | --- | 15 | 20 | 52 | 0.1 | < 5 |
| G9L6E 4+00N | 201 | --- | 14 | 16 | 47 | 0.1 | < 5 |
| G9L6E 4+50N | 201 | --- | 31 | 16 | 64 | 0.1 | < 5 |
| G9L6E 5+00N | 201 | --- | 33 | 8 | 68 | 0.1 | < 5 |
| G9L6E 5+50N | 201 | --- | 36 | 7 | 73 | 0.1 | < 5 |
| G9L6E 6+00N | 201 | --- | 34 | 2 | 67 | 0.1 | < 5 |
| G9L6E 0+50S | 201 | --- | 30 | 8 | 73 | 0.1 | < 5 |
| G9L6E 1+00S | 201 | --- | 30 | 10 | 91 | 0.1 | < 5 |
| G9L6E 1+50S | 201 | --- | 27 | 12 | 95 | 0.1 | < 5 |
| G9L6E 2+00S | 201 | --- | 34 | 5 | 79 | 0.1 | < 5 |
| G9L6E 2+50S | 201 | --- | 31 | 6 | 76 | 0.1 | < 5 |
| G9L6E 3+00S | 201 | --- | 60 | 10 | 78 | 0.1 | < 5 |
| G9L6E 3+50S | 201 | --- | 45 | 4 | 78 | 0.1 | < 5 |
| G9L6E 4+00S | 201 | --- | 32 | 4 | 64 | 0.1 | < 5 |
| G9L8E 0+00N | 201 | --- | 36 | 5 | 100 | 0.1 | < 5 |

CERTIFICATION : Ian Bridges

**Chemex Labs Ltd.**
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: WHITE GEOPHYSICAL INC.
11751 BRIDGEPORT RD.
RICHMOND, BC
V6X 1T5
Project : GRID 9
Comments:


Date : 8-OCT-87
Invoice # : I-8722869
P.O. # :

# CERTIFICATE OF ANALYSIS A8722869

| SAMPLE DESCRIPTION | PREP CODE | | Cu ppm | Pb ppm | Zn ppm | Ag ppm Aqua R | Au ppb FA+AA |
|---|---|---|---|---|---|---|---|
| G9L8E 0+50N | 201 | -- | 18 | 13 | 84 | 0.1 | < 5 |
| G9L8E 1+00N | 201 | -- | 20 | 12 | 63 | 0.1 | < 5 |
| G9L8E 1+50N | 201 | -- | 24 | 8 | 83 | 0.1 | 5 |
| G9L8E 2+00N | 203 | -- | 20 | 8 | 65 | 0.1 | < 5 |
| G9L8E 2+50N | 201 | -- | 31 | 10 | 95 | 0.1 | < 5 |
| G9L8E 3+00N | 201 | -- | 14 | 12 | 55 | 0.1 | < 5 |
| G9L8E 3+50N | 201 | -- | 17 | 13 | 75 | 0.1 | < 5 |
| G9L8E 4+00N | 201 | -- | 19 | 12 | 94 | 0.1 | < 5 |
| G9L8E 4+50N | 201 | -- | 34 | 4 | 75 | 0.1 | < 5 |
| G9L8E 5+00N | 201 | -- | 31 | 4 | 87 | 0.1 | < 5 |
| G9L8E 5+50N | 201 | -- | 29 | 4 | 77 | 0.1 | < 5 |
| G9L8E 6+00N | 201 | -- | 23 | 5 | 62 | 0.1 | < 5 |
| G9L8E 0+50S | 201 | -- | 26 | 10 | 83 | 0.1 | < 5 |
| G9L8E 1+00S | 201 | -- | 28 | 6 | 74 | 0.1 | < 5 |
| G9L8E 1+50S | 201 | -- | 25 | 5 | 83 | 0.1 | < 5 |
| G9L8E 2+00S | 201 | -- | 23 | 8 | 82 | 0.1 | < 5 |
| G9L8E 2+50S | 201 | -- | 35 | 7 | 72 | 0.1 | < 5 |
| G9L8E 3+00S | 201 | -- | 25 | 7 | 82 | 0.1 | < 5 |
| G9L8E 3+50S | 201 | -- | 29 | 5 | 89 | 0.1 | < 5 |
| G9L8E 4+00S | 201 | -- | 25 | 12 | 160 | 0.1 | 10 |
| G9L10E 0+00N | 201 | -- | 32 | 8 | 91 | 0.1 | < 5 |
| G9L10E 0+50N | 201 | -- | 38 | 8 | 87 | 0.1 | 5 |
| G9L10E 1+00N | 201 | -- | 32 | 9 | 106 | 0.1 | < 5 |
| G9L10E 1+50N | 201 | -- | 15 | 12 | 47 | 0.1 | < 5 |
| G9L10E 2+00N | 201 | -- | 11 | 12 | 58 | 0.1 | < 5 |
| G9L10E 2+50N | 201 | -- | 24 | 10 | 95 | 0.1 | < 5 |
| G9L10E 3+00N | 201 | -- | 27 | 8 | 96 | 0.1 | < 5 |
| G9L10E 3+50N | 201 | -- | 23 | 10 | 67 | 0.1 | < 5 |
| G9L10E 4+00N | 201 | -- | 23 | 9 | 63 | 0.1 | < 5 |
| G9L10E 4+50N | 201 | -- | 21 | 8 | 62 | 0.1 | < 5 |
| G9L10E 5+00N | 201 | -- | 20 | 6 | 64 | 0.1 | < 5 |
| G9L10E 5+50N | 201 | -- | 28 | 5 | 68 | 0.1 | < 5 |
| G9L10E 6+00N | 201 | -- | 26 | 4 | 73 | 0.1 | < 5 |
| G9L10E 0+50S | 201 | -- | 38 | 7 | 88 | 0.1 | < 5 |
| G9L10E 1+00S | 203 | -- | 17 | 9 | 65 | 0.1 | < 5 |
| G9L10E 1+50S | 201 | -- | 18 | 8 | 65 | 0.1 | < 5 |
| G9L10E 2+00S | 201 | -- | 18 | 10 | 78 | 0.1 | < 5 |
| G9L10E 2+50S | 203 | -- | 21 | 10 | 70 | 0.1 | < 5 |
| G9L10E 3+00S | 201 | -- | 29 | 8 | 83 | 0.1 | < 5 |
| G9L10E 3+50S | 201 | -- | 25 | 10 | 107 | 0.1 | < 5 |

CERTIFICATION : Ian Bridson

**Chemex Labs Ltd.**
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: WHITE GEOPHYSICAL INC.
11751 BRIDGEPORT RD.
RICHMOND, BC
V6X 1T5
Project : GRID 9
Comments:

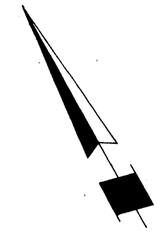

Date : 8-OCT-87
Invoice # : I-8722869
P.O. # :

# CERTIFICATE OF ANALYSIS A8722869

| SAMPLE DESCRIPTION | PREP CODE | | Cu ppm | Pb ppm | Zn ppm | Ag ppm Aqua R | Au ppb FA+AA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G9L10E 4+00S | 203 | -- | 21 | 16 | 78 | 0.1 | < 5 | | | | | |

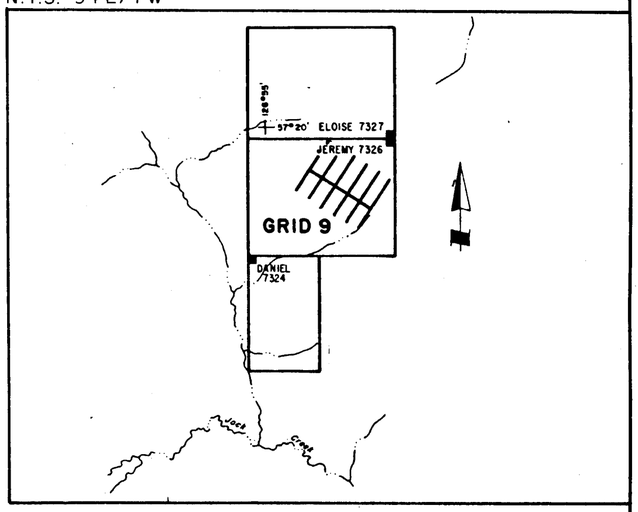
CERTIFICATION : Ian R. Bradley

| - L 0+00E | - L 2+00E | - L 4+00E | - L 6+00E | - L 8+00E | - L 10+00E | |
|---|---|---|---|---|---|---|
| | 28 - 6 | 31 - 8 | 34 - 2 | 23 - 5 | 26 - 4 | - 6+00N |
| | 27 - 6 | 33 - 6 | 36 - 7 | 29 - 4 | 28 - 5 | |
| | 28 - 7 | 26 - 6 | 33 - 8 | 31 - 4 | 20 - 6 | |
| | 49 - 14 | | 31 - 16 | 34 - 4 | 21 - 8 | |
| 37 - 18 | 38 - 6 | 30 - 10 | 14 - 16 | 19 - 12 | 23 - 9 | |
| 42 - 10 | 41 - 8 | 22 - 8 | 15 - 20 | 17 - 13 | 23 - 10 | |
| 42 - 8 | 24 - 16 | 15 - 12 | 21 - 12 | 14 - 12 | 27 - 8 | - 3+00N |
| 50 - 5 | 11 - 18 | 19 - 10 | 27 - 8 | 31 - 10 | 24 - 10 | |
| 14 - 6 | 24 - 18 | 23 - 8 | 20 - 9 | 20 - 8 | 11 - 12 | |
| 22 - 5 | 17 - 14 | 19 - 8 | 19 - 11 | 24 - 8 | 15 - 12 | |
| 60 - 8 | 22 - 9 | 19 - 8 | 24 - 8 | 20 - 12 | 32 - 9 | |
| 21 - 5 | 22 - 12 | 20 - 6 | 25 - 10 | 18 - 13 | 38 - 8 | |
| 16 - 11 | 10 - 10 | 29 - 8 | 21 - 14 | 36 - 5 | 32 - 8 | - BL 0+00 |
| 20 - 8 | 19 - 10 | 23 - 8 | 30 - 8 | 26 - 10 | 38 - 7 | |
| 16 - 10 | 14 - 8 | 28 - 10 | 30 - 10 | 28 - 6 | 17 - 9 | |
| 32 - 18 | 28 - 6 | 24 - 9 | 27 - 12 | 25 - 5 | 18 - 8 | |
| 17 - 24 | 30 - 7 | 17 - 7 | 34 - 5 | 23 - 8 | 18 - 10 | - 2+00S |
| 18 - 28 | 39 - 12 | 20 - 1 | 31 - 6 | 35 - 7 | 21 - 10 | |
| 38 - 52 | 40 - 6 | 33 - 8 | 60 - 10 | 25 - 7 | 29 - 8 | |
| 15 - 12 | 29 - 6 | 32 - 18 | 45 - 4 | 29 - 5 | 25 - 10 | |
| 14 - 16 | 28 - 20 | 41 - 4 | 32 - 4 | 25 - 12 | 21 - 16 | - 4+00S |



COPPER - ppm
LEAD - ppm
43 - 62

N.T.S. 94 E/7W




0 50 100 200 300 400 500 600 m

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,798

WHITE GEOPHYSICAL INC.

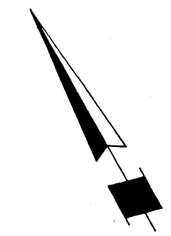
To accompany the Geophysical Report on the JEREMY CLAIM GROUP

**TOODOGGONE GOLD INC.**

TOODOGGONE PROPERTIES
JEREMY CLAIM GROUP - GRID 9
SOIL. SAMPLES - Cu, Pb

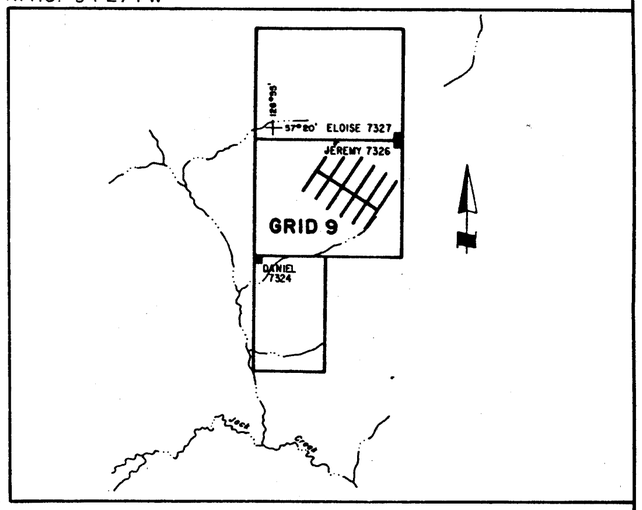
DATE AUGUST, 1987 | FIG. 6

| - L 0+00E | - L 2+00E | - L 4+00E | - L 6+00E | - L 8+00E | - L 10+00E | |
|---|---|---|---|---|---|---|
| | 77 0.1 >5 | 82 0.1 >5 | 67 0.1 >5 | 62 0.1 >5 | 73 0.1 >5 | - 6+00 N |
| | 71 0.1 >5 | 82 0.1 >5 | 73 0.1 >5 | 77 0.1 >5 | 68 0.1 >5 | |
| | 80 0.3 >5 | 74 0.1 >5 | 68 0.1 >5 | 87 0.1 >5 | 69 0.1 >5 | |
| | 94 0.3 10 | | 64 0.1 >5 | 75 0.1 >5 | 62 0.1 >5 | |
| 84 1.0 >5 | 25 0.4 >5 | 81 0.1 >5 | 47 0.1 >5 | 94 0.1 >5 | 63 0.1 >5 | |
| 106 0.2 >5 | 92 0.3 >5 | 86 0.3 >5 | 52 0.1 >5 | 75 0.1 >5 | 67 0.1 >5 | |
| 90 0.1 >5 | 69 0.4 10 | 75 0.3 >5 | 57 0.1 >5 | 55 0.1 >5 | 96 0.1 >5 | - 3+00N |
| 85 0.1 >5 | 44 0.1 >5 | 91 0.2 45 | 78 0.1 >5 | 95 0.1 >5 | 95 0.1 >5 | |
| 69 0.1 >5 | 101 0.1 >5 | 66 0.3 >5 | 71 0.1 >5 | 65 0.1 >5 | 58 0.1 >5 | |
| 81 0.1 >5 | 75 0.1 >5 | 69 0.1 >5 | 64 0.1 >5 | 84 0.1 >5 | 47 0.1 >5 | |
| 103 0.1 >5 | 82 0.1 >5 | 99 0.2 >5 | 69 0.1 >5 | 63 0.1 >5 | 106 0.1 >5 | |
| 102 0.2 >5 | 68 0.1 >5 | 77 0.3 >5 | 84 0.1 >5 | 84 0.1 >5 | 87 0.1 5 | |
| 74 0.1 >5 | 37 0.1 >5 | 95 0.1 >5 | 70 0.1 >5 | 100 0.1 >5 | 91 0.1 >5 | - BL 0+00 |
| 88 0.1 >5 | 64 0.1 >5 | 83 0.1 >5 | 73 0.1 >5 | 83 0.1 >5 | 88 0.1 >5 | |
| 88 0.1 >5 | 74 0.1 >5 | 75 0.1 >5 | 91 0.1 >5 | 74 0.1 >5 | 65 0.1 >5 | |
| 110 0.1 >5 | 90 0.1 >5 | 77 0.1 >5 | 95 0.1 >5 | 83 0.1 >5 | 65 0.1 >5 | |
| 91 0.2 >5 | 101 0.1 >5 | 69 0.1 >5 | 79 0.1 >5 | 82 0.1 >5 | 78 0.1 >5 | - 2+00S |
| 121 0.1 >5 | 107 0.1 >5 | 65 0.1 >5 | 76 0.1 >5 | 72 0.1 >5 | 70 0.1 >5 | |
| 145 0.2 >5 | 103 0.3 >5 | 76 0.1 >5 | 78 0.1 >5 | 82 0.1 >5 | 83 0.1 >5 | |
| 77 0.3 >5 | 101 0.1 >5 | 73 0.1 >5 | 78 0.1 >5 | 89 0.1 >5 | 107 0.1 >5 | |
| 71 1.3 >5 | 136 0.3 >5 | 71 0.1 >5 | 64 0.1 >5 | 160 0.1 10 | 78 0.1 >5 | - 4+00S |



ZINC - ppm
120 | 0.1 SILVER - ppm
10 GOLD - ppb

N.T.S. 94 E/7W




0 50 100 200 300 400 500 600 m

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**TOODOGGONE GOLD INC.**

TOODOGGONE RIVER PROPERTIES
JEREMY CLAIM GROUP - GRID 9
SOIL SAMPLES - Zn, Ag, Au

DATE AUGUST, 1987 | FIG. 5