

GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORTS
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**GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL ASSESSMENT REPORT  
ON THE  
JASPER PROPERTY, VICTORIA M.D.  
VANCOUVER ISLAND, B.C.**

**NTS: 092C 088**

**LAT: 48° 52'; LONG: 124°; 36'**

**REPORT BY:**

**ARNE O. BIRKELAND, P.ENG.**

**ARNEX RESOURCES LTD.**

**REPORT FOR OWNER:**

**INSPIRATION MINING CORPORATION**

**JULY, 1996**

**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

**24,716**

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**GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT**  
**JASPER PROPERTY, VICTORIA MINING DIVISION**

**1.0 INTRODUCTION**

**1.1 General**

A 123 man-day field exploration program was conducted by Arnex Resources Ltd. on the Jas 1-31 and Jasmin 1-7 Mineral Claims during the period December, 1995 to June, 1996. The field work consisted of grid linecutting, geologic mapping in selected areas over a 1,000 Ha area, rock chip sampling, grid soil geochemical sampling, and stream sediment sampling. Fifty three rock chip and 84 soil and stream sediment samples were taken and analyzed by Chemex Labs.

Orthophoto mosaic and topographic base maps were compiled by Eagle Mapping Services Ltd. at scales of 1:5,000, 1:2,500 and 1:1,000 for selected areas of the property (Figures 4-9).

In addition, geophysical surveys were conducted by S J Geophysics Ltd and are appended in a report titled Magnetometer, VLF-EM, Horizontal Loop EM and Induced Polarization Test Surveys on the Jasper Property.

A total expenditure of \$89,729 was incurred (APPENDIX I). The work was conducted under Annual Work Approval Number NAN-96-0800949-15.

### **1.2 Property Tenure**

The Jasper Claim group consists of the Jas 1 to 31 and Jasmin 1-7 Mineral Claims which total 116 units (Table 1, Figure 2). The property is 100% owned by Inspiration Mining Corporation of Vancouver, B.C.

### **1.3 Location and Access**

The Jasper Property is located in BCGS Map Sheet 092C 088 (NTS 92C/15, Figures 1 and 2). The Jasper property lies along Four Mile Creek and extends over the height of land to the tributaries of Jasper Creek. Logging road access is via Port Alberni or Cowichan Lake. J Branch road accesses the northern portion of the property and Caycuse main the southern portion.

Steep, incised drainages with rugged relief to approximately 300 meters (m) characterizes the physiography of the area. Much of the region has been logged in recent years and young second growth forest is present over most of the claims. Climatic conditions are temperate.

Port Alberni 32 km

Port Alberni 34 km

45'

30'

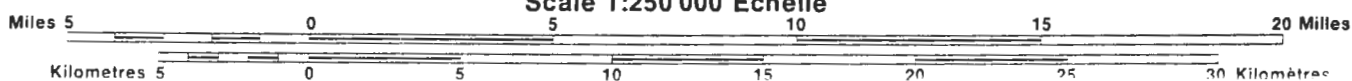
DUNSMUIR LAND DISTRICT

15'



<b>ARNEX RESOURCES LTD.</b>
<b>Jasper Property</b>
<b>Location Map</b>
<b>Scale: 1:250,000</b>
<b>September, 1995</b>

**Figure 1**



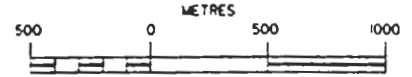
Scale 1:250 000 Échelle

MINERAL TITLES REFERENCE

MAP 092C088

U.T.M. ZONE 10

ORIGINAL PRODUCED AT 1:20 000

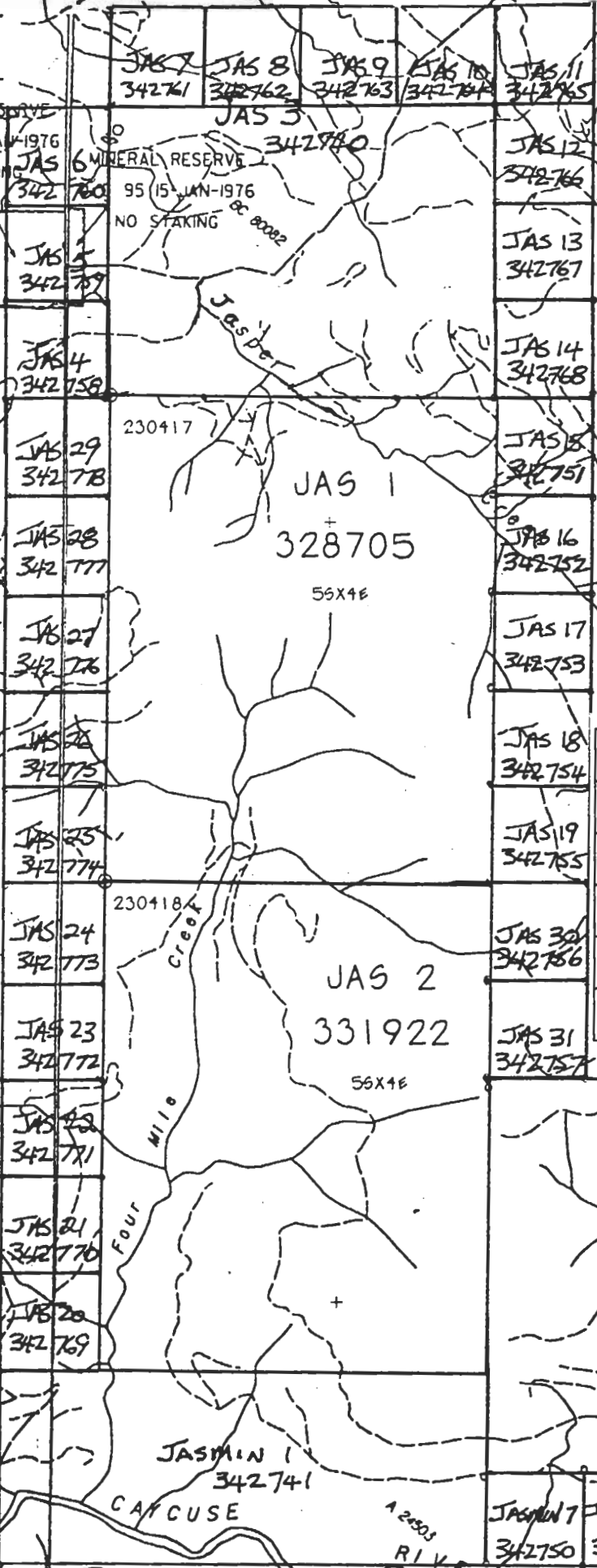


ADMINISTRATIVE AREAS

MINING DIVISION: ALBERNI  
VICTORIA

MINERAL RESERVE  
O/C 95 (15-JAN-1976  
NO STAKING

MINERAL RESERVE  
95 (15-JAN-1976  
NO STAKING



INSPIRATION MINING CORPORATION

Jasper Property

Claim Location Map

BCGS: 92C 088 Scale: 1:20,000

Figure 2 July, 1996

Compiled by: Arnex Resources Ltd.



TABLE 1  
 INSPIRATION MINING CORPORATION  
 MINERAL TENURE - JASPER PROPERTY  
 COMPILED BY: ARNEX RESOURCES LTD.

CLAIM	MIN. DIV.	REC. NO.	NO. UNITS	EXPIRY	HECTARES
Jas 1	Victoria	328705	20	99/07/26	500
Jas 2	Victoria	331922	20	99/10/28	500
Jas 3	Victoria	342740	12	96/12/19	300
Jas 4	Victoria	342758	1	96/12/16	25
Jas 5	Victoria	342759	1	96/12/16	25
Jas 6	Victoria	342760	1	96/12/16	25
Jas 7	Victoria	342761	1	96/12/16	25
Jas 8	Victoria	342762	1	96/12/16	25
Jas 9	Victoria	342763	1	96/12/17	25
Jas 10	Victoria	342764	1	96/12/17	25
Jas 11	Victoria	342765	1	96/12/17	25
Jas 12	Victoria	342766	1	96/12/17	25
Jas 13	Victoria	342767	1	96/12/17	25
Jas 14	Victoria	342768	1	96/12/17	25
Jas 15	Victoria	342751	1	96/12/17	25
Jas 16	Victoria	342752	1	96/12/17	25
Jas 17	Victoria	342753	1	96/12/17	25
Jas 18	Victoria	342754	1	96/12/17	25
Jas 19	Victoria	342755	1	96/12/17	25
Jas 20	Victoria	342769	1	96/12/18	25
Jas 21	Victoria	342770	1	96/12/18	25
Jas 22	Victoria	342771	1	96/12/18	25
Jas 23	Victoria	342772	1	96/12/18	25
Jas 24	Victoria	342773	1	96/12/18	25
Jas 25	Victoria	342774	1	96/12/18	25
Jas 26	Victoria	342775	1	96/12/19	25
Jas 27	Victoria	342776	1	96/12/19	25
Jas 28	Victoria	342777	1	96/12/19	25
Jas 29	Victoria	342778	1	96/12/19	25
Jas 30	Victoria	342756	1	96/12/18	25
Jas 31	Victoria	342757	1	96/12/18	25
Jasmin-1	Victoria	342741	10	96/12/19	250
Jasmin-2	Victoria	342742	20	96/12/19	425
Jasmin-3	Victoria	342746	1	96/12/18	25
Jasmin-4	Victoria	342747	1	96/12/18	25
Jasmin-5	Victoria	342748	1	96/12/18	25
Jasmin-6	Victoria	342749	1	96/12/18	25
Jasmin-7	Victoria	342750	1	96/12/18	10
TOTALS			115	y/m/d	2785

C:\WK1\JASCLM2.WK1

#### 1.4 History

The Jasper Property consists of three former Minfile occurrences known from north to south as the Jasper 1 (092C 080), Tam 16 (092C 081) and Pan-Easy (092C 088) prospects. The Tam and Easy properties were previously staked by Hudson Bay Mining and Smelting who conducted geological mapping, soil and rock chip geochemistry and an IP geophysical survey in 1970 and 1971. Also in 1971, Marshall Creek Copper conducted an extensive soil sampling program on the Pan, Easy and Tam properties. It is reported that Noranda conducted a regional magnetic survey during this era, but no information regarding the results were filed as a matter of public record.

The next period of exploration activity occurred in 1980 and 1981 when Malibar Mines conducted soil sampling on the Jasper property. In 1984 a prospecting program was carried out by Ron Bilquest followed by a geological, soil and VLF-EM program by Falconbridge in 1985. Asamara then conducted a brief geology, soil sampling and EM program in 1987.

The properties were then allowed to lapse and were relocated by Arne O. Birkeland in the summer and fall of 1994. A detailed geologic mapping and sampling program was then carried out by the author in August, 1994 on the J Branch Main Showing. A subsequent Geological and Geochemical Program was carried out during 1995. The property was optioned to Consolidated Taywin

Resources Inc., now Inspiration Mining Corporation in December, 1996 who are the current owners.

## **2.0 GEOLOGY**

### **2.1 Regional Geology**

Vancouver Island lies within the Canadian Cordillera within terrain classified as Wrangellia. Central and western Vancouver Island is predominantly underlain by Paleozoic and Mesozoic strata intruded by Jurassic and Tertiary Intrusions (Fig 3).

The Jasper property is hosted in a belt of rocks mapped as lower Jurassic Bonanza group which trends southeasterly from Nitinat Lake through Gordon River, south of Cowichan Lake.

The Bonanza Group in this vicinity consists of a variety of maroon to grey-green, feldspar phyric basalt and andesite flows, dacite and felsic lapilli tuff containing various minor gabbro, andesite and dacite dykes. There is a lack of lithologic continuity and distinct marker beds are absent. In the basal part of the sequence, sedimentary rocks are found interbedded with lapilli and crystal tuffs and a sub-aqueous environment is indicated.

Several granodiorite Island Intrusion stocks occur in the area. The coeval stocks are regular to elongated in shape with steep

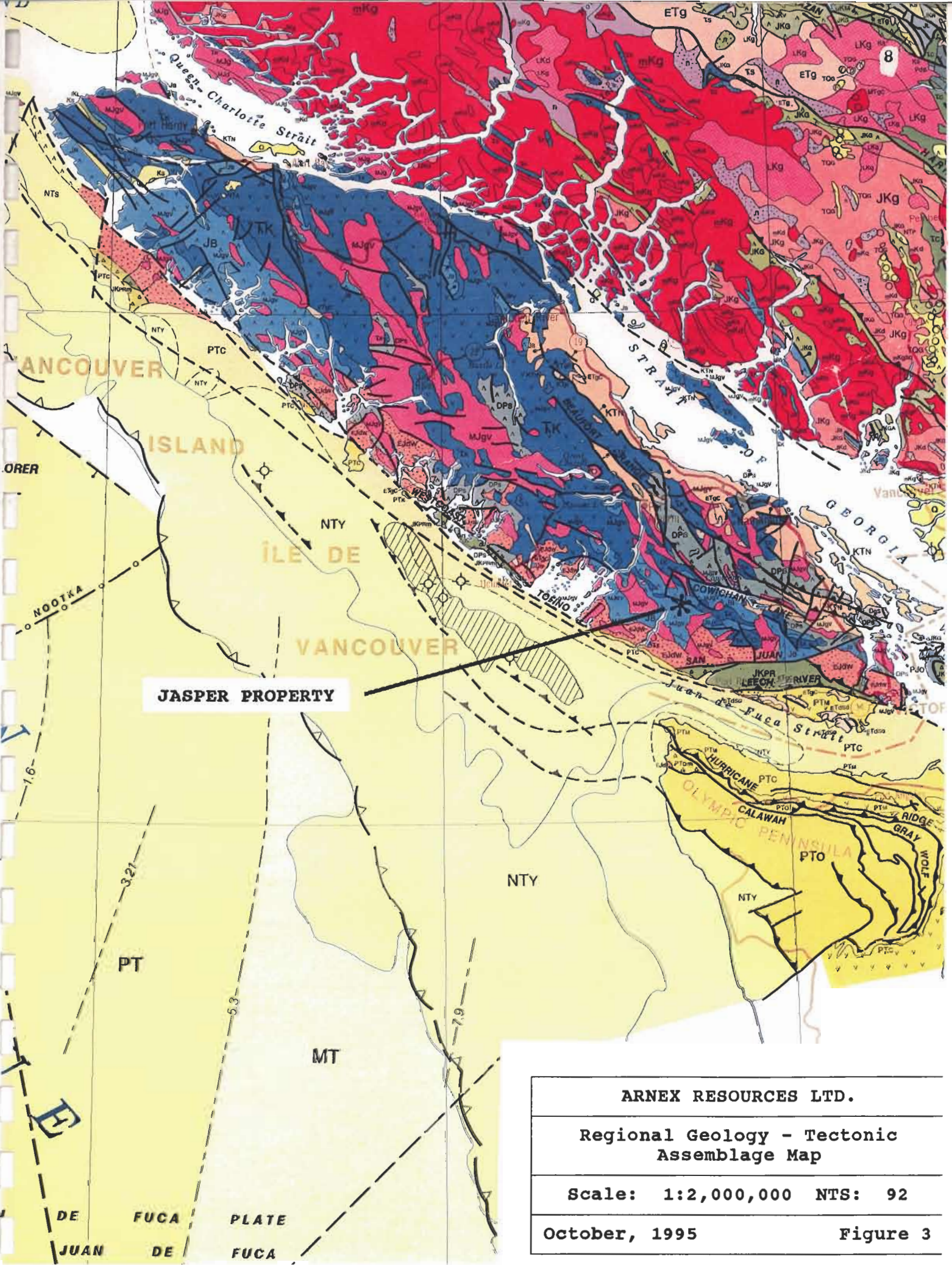
sides. The major lithology is granodiorite to quartz-diorite and most of the stocks are rich in mafic inclusions, particularly in marginal zones where magmatic intrusive breccias are developed. Stocks are rounded in outcrop shape.

Numerous RGS anomalies and Minfile occurrences are present in the general Nitinat - Cowichan area and both porphyry and VMS style mineralization has been reported by BCGS geologists. Porphyry style Cu-Mo occurrences are commonly associated with high level sub-volcanic dykes and sills. The Debbie - Lizzard - Thistle VMS belt occurs in the northern portion of the region hosted in rocks mapped as Sicker Group. Massey and Friday note VMS stratigraphic mineral potential where reported "*sulfidic argillites are found interbedded with tuffs*" in the basal part of the Bonanza sequence in the Alberni - Cowichan area.

## 2.2 Property Geology

Geological mapping was conducted in selected areas and is presented at scales of 1:5,000 and 1:2,500 as Figures 10 to 15.

The Jasper property is underlain by mafic to felsic volcanic rocks which have been previously mapped as Bonanza group. The central part of the property is underlain by a north-south trending sequence of intermediate flows and flow breccias which are flanked to the east by mafic flows (Figures 10 - 15). A wedge shaped body of felsic flows overlies the mafic rocks to the



**JASPER PROPERTY**

<b>ARNEX RESOURCES LTD.</b>	
<b>Regional Geology - Tectonic Assemblage Map</b>	
Scale: 1:2,000,000	NTS: 92
October, 1995	Figure 3

# TECTONIC ASSEMBLAGE MAP LEGEND

## UPPER CRETACEOUS - OLIGOCENE

**KTN** NANAIMO fault-trough clastic wedge

**KTb** BRAZEAU foredeep clastic wedge

## UPPER UPPER CRETACEOUS

**uKc** CARMACKS transensional arc volcanics

**uKy** YAKUTAI accretionary prism

## UPPER CRETACEOUS

**uKm** MIDNIGHT PEAK transpressional arc volcanics

**uKh** HONNA easterly derived clastic wedge

**uKv** VIRGINIAN RIDGE westerly derived clastic wedge

**uKt** TREVOR southwesterly derived clastic wedge

**uKs** SMOKY foredeep marine shales

## CRETACEOUS

**Kv** VALDEZ accretionary prism

**Ks** SKEENA easterly derived back-arc clastics

## MID-CRETACEOUS

**mKs** SOUTH FORK transensional cauldron-subsidence and arc volcanics

**mKb** BLAIRMORE foredeep clastic wedge

## LOWER CRETACEOUS

**IKL** LONGARM clastic wedge

## UPPER JURASSIC - LOWER CRETACEOUS

**JKPR** PACIFIC RIM mélangé and chert-volcanic assemblage on Upper Triassic calc-alkaline arc volcanics

**JKs** SAN JUAN imbricate, amalgamated mélangé terrane

**JKg** GAMBIER arc and locally, rift volcanics

**JKR** RELAY MOUNTAIN easterly derived clastics

**JKk** KOOTENAY foredeep clastic wedge

**JKP** PARSONS continental margin clastics; JKPA in Arctic Alaska Terrane; JKPP in Porcupine Terrane

## MIDDLE AND UPPER JURASSIC

**JBL** BOWSER LAKE back-arc (?) and foredeep clastic wedge on Stikinia

## LOWER AND MIDDLE JURASSIC

**Jb** BONANZA arc volcanics and near-shore clastics in Wrangella

**JHL** HARRISON LAKE arc volcanics

**Js** SHUKSAN near-arc oceanic marginal basin crust and sediments

**JL** LADNER arc clastics and volcanics

**JH** HAZELTON volcanic arc complexes in Stikinia

**JT** TAKWAHONI Stikinia arc-derived clastics

**Ji** INKLIN arc clastics above Cache Creek Terrane

**JHA** HALL Quesnellia arc-derived clastics

## TRIASSIC - JURASSIC

**TJS** SPRAY RIVER continental margin prism; TUSA in Arctic Alaska Terrane; TJSP in Porcupine Terrane; TJSC in Cassiar Terrane; TJSKA in Cariboo Subterrane

## UPPER TRIASSIC - LOWER JURASSIC

**TJSE** SETTLER oceanic crust and oceanic sediments

**TJC** CULTUS arc clastics in Chilliwack Terrane

**TJN** NICOLA arc volcanics in Quesnellia

## UPPER TRIASSIC

**Tx** KARMUTSEV rift volcanics in Wrangella

**TH** HYD bimodal rift volcanics in Alexander Terrane

**Tc** CADWALLADER arc clastics and volcanics

**Ts** STUHINI arc volcanics in Stikinia

**TL** LEWES RIVER arc clastics, in part in Cache Creek Terrane

**TKU** KUTCHO arc volcanics in Cache Creek Terrane

**PKT** undivided TAKU assemblage

## PERMIAN - TRIASSIC

**PTA** Undivided Alexander Terrane sediments and volcanics

# TECTONIC ASSEMBLAGE MAP LEGEND

## PERMIAN - JURASSIC

**PJb** BRIDGE RIVER accretionary prism and oceanic crust

**Pjb** ORCAS oceanic volcanics and sediments

**Pp** PYBUS platform sediments and volcanics

**PH** HALLECK sediments and volcanics

**PJ** JUNGLE CREEK clastics mainly derived from uplift of ancestral Aklavik Arch; **PJP** in Porcupine Terrane

## CARBONIFEROUS - JURASSIC

**CTT** TOZITNA oceanic volcanics and sediments

**MTs** SHEENJEK oceanic volcanics and sediments

## PENNSYLVANIAN - PERMIAN

**PPs** SKOLAI arc volcanics and sediments in Wrangellia

**PPI** ISHBEL faulted passive continental margin sediments; **PPICA** in Cariboo Subterrane

## MISSISSIPPIAN - UPPER TRIASSIC

**MTC** CACHE CREEK oceanic volcanics and sediments and local accretionary prism mélange

**DTH** HARPER RANCH arc clastics; basement of Quesnellia

**DTs** SLIDE MOUNTAIN oceanic marginal basin volcanics and sediments

## DEVONIAN - PERMIAN

**DPc** CANNERY offshore clastics

**DPCh** CHILLIWACK arc volcanics and clastics

**DPA** ASITKA arc volcanics and platform carbonates, basement of Stikinia

**DPS** SICKER arc volcanics clastics and platform carbonates, basement of Wrangellia

## CARBONIFEROUS - PERMIAN

**CPA** ANARCHIST oceanic volcanics and sediments, basement of Quesnellia

**CPO** Outer detrital clastics, **CPOP** in Porcupine Terrane

## CARBONIFEROUS

**Cl** IYDUKEEN platform carbonate

**Cd** DORSEY marginal basin chert and clastics

## DEVONIAN - MISSISSIPPIAN

**DME** EARN fault-though clastic wedge: **DMEP** in Porcupine Terrane, **DMEC** in Cassiar Terrane, **DMECA** in Cariboo Subterrane

**DMI** IMPERIAL distal northerly derived clastic wedge; **DMIA** Arctic Alaska Terrane

**DMB** BESA RIVER most distal part of northerly derived Imperial Assemblage and westerly derived Earn Assemblage, upper Devonian shale partly derived from craton

## DEVONIAN - CARBONIFEROUS

**DCa** RUNDLE continental shelf carbonate and shale; **DCRC** in Cassiar Terrane

## DEVONIAN - CRETACEOUS

**DKWR** WHITE RIVER mixed assemblage of Paleozoic-lower Mesozoic oceanic rocks including undated clastics like those in the Gambier Assemblage

## DEVONIAN

**DC** CEDAR COVE platform carbonate and rift volcanics

**Dk** KARHEEN post-Klakas Orogeny clastic wedge

## ORDOVICIAN - TRIASSIC

**OTA** Undivided phyllite in Alexander Terrane, **OTAD** includes Devonian to Triassic rocks in Duncan Canal Shear Zone

**OTS** SHOEMAKER enigmatic assemblage of Paleozoic oceanic tufts and sediments and Triassic arc (?) volcanics and sediments in Okanagan subterrane of Quesnel Terrane

## ORDOVICIAN - DEVONIAN

**ODk** KASKAWULSH back-arc carbonate and pelite

**ODd** DONJEK back-arc volcanic clastics

## ORDOVICIAN - SILURIAN

**OSd** DESCON oceanic arc volcanics and sediments

## UPPER PROTEROZOIC - PALEOZOIC

**PPEK** EAGLE BAY clastics and volcanics of pericratonic Kootenay Terrane and Devonian and older magmatic arc rocks in Yukon-Tanana Terrane

## UPPER PROTEROZOIC - TRIASSIC

**PTnk** NISUTLIN cataclastic sediments and volcanics of pericratonic Kootenay Terrane

## CAMBRIAN - DEVONIAN

**CDN** NASINA partly metamorphosed carbonaceous and siliceous offshore sediments

**CDR** ROCKY MOUNTAINS passive continental margin sediments; **CDRA** in Arctic Alaska Terrane; **CDRP** in Porcupine Terrane; **CDRC** in Cassiar displaced passive margin terrane; **CDRCA** in Cariboo displaced offshore passive margin terrane

## MIDDLE CAMBRIAN

**mCr** Rift assemblage

## UPPER PROTEROZOIC - LOWER CAMBRIAN

**PCw** WALES metamorphosed oceanic arc volcanics

**PCn** NISLING metamorphosed passive continental margin assemblage

east. Felsite dykes intrude the intermediate and mafic volcanics and are likely feeders to the younger felsic flows. Often the intermediate and mafic flows and flow breccias are massive and bedding orientation is impossible to determine. Local foliation is oriented north-south.

Lithologic descriptions for the map units for Figures 10 - 15 are as follows:

Map Unit 1. Mafic Volcanics

A thick monotonous massive mafic volcanic assemblage appears to be the lowest stratigraphic unit on the property. The sequence is made up of thick featureless flows and minor flow breccias. The rocks are dark green in color, are fine grained and are locally feldspar phyrric. Epidote and hematite alteration is often present as well as quartz and calcite stringers and veins. Remnant pillow structures and calcite clots (occurring at the interstices of pillows) are evidence of a subaqueous depositional environment.

Massive and pillow flows are mapped as unit 1a, agglomerate and breccia as map unit 1b, and undifferentiated tuffs as unit 1c.



### Map Unit 2. Intermediate Volcanics

Map Unit 2 consists of a thick succession of andesitic to dacitic flows and flow breccias. The rocks are light green to light grey in colour and are predominantly fine grained in the featureless flows. Flow breccias are often dacitic in composition and contain angular heterolithic fragments to 30 cm in size.

Massive and brecciated feldspar porphyry are mapped as unit 2a, dacitic flows as unit 2b and intermediate tuffs as unit 2c.

### Map Unit 3. Felsic Volcanics

The felsic volcanic unit occurs to the east of the Main Showing area extending in a southerly direction to the vicinity of the Pan showing. The unit consists of a pale apple green to creamy grey, very fine grained (glassy) rhyolite, commonly with conchoidal fracture. Flow banded textures are locally common.

The felsic volcanic package is mapped as unit 3a, massive commonly banded flows, 3b, agglomerate and 3c, agglomerate.

### Map Unit 4. Argillite

The argillite unit has only been found locally on the road to the east of the Main Showing. Large blocks of subcrop consist of

medium to thick bedded, dark grey, very fine grained agrillite. The beds are locally calcareous and/or graphitic.

Map Unit 5. Hematite Breccia

The hematite breccia unit occurs in the spur road to the northeast of the Main Showing and on the lower J Branch road. The unit consists of rouge, friable poorly consolidated agglomerate of subrounded mafic volcanic clasts in a hematitic matrix.

Map Unit 6. Mafic Dykes

Hornblend porphyry dykes are mapped in the southern portions of the property. The dykes contains light to medium grey, fine grained andesitic matrix with coarse euhedral hornblend and felspar porphyroblasts. Minor argillic alteration and pyrite mineralization occurs at the dyke margins.

As an overview, the geological mapping has revealed the following:

- The Main Showing is hosted in chloritized mafic volcanics near the contact with a rhyolite flow complex. The contact between the mafic and felsic volcanics appears stratabound with the Four Mile Alteration Zone.

- Mapping in the upper Camp Creek road area encountered a siliceous tuff or exhalite which is at the contact of the rhyolite flow complex (south portion Fig 14, north portion of Fig 15).

### 2.3 Structure and Alteration

A late major fault suture cuts Vancouver Island from the mouth of the Carmanah River on the west coast to Qualicum Beach on the east coast. Four Mile Creek and the J Branch Main Showing on Jasper Ridge occur along the major fault structure. A north trending gossanous alteration zone with a strike length greater than 5 km lies along the fault from the Caycuse Creek drainage in the south to the Nitinat Valley in the north. The alteration zone is characterized by moderate to intense argillization and silicification accompanied by ubiquitous pyrite flooding. Coincidental narrow fault and fracture zones often emanate as a conjugate set at right angles to the main north trending fault system.

Recent mapping in Jasper Creek revealed a number of northwest trending fault and fracture zones characterized by silicification, pyrite, ankerite and argillic alteration (Figure 10).

In addition recent mapping at the Easy showing area (south portion Fig 15) confirms the presence of a +100 m wide and +300 m

long silicified pyritic argillic alteration zone. Pyritic breccia occurs as two outcrop showings south of the Easy gossan zone.

#### 2.4 Mineralization

At least six high-grade Cu, Zn +/- Pb sulphide showing areas have been identified on the property to date (Figure 27) and are summarized as follows:

<u>Jasper, Main J-Branch Showing</u>	>2%Cu, >3%Zn, + Ag in 2 lenses 0.8-1.3 m x 44 m
<u>Quartz breccia gold vein</u>	rock chip 19 g/t Au, soil to 120 ppb
<u>Tam 16 showing area</u>	rock chip Cu>4%
<u>Upper Camp Creek Showings</u>	8.9% Cu/0.4 m, 2.6 ppm Ag/1.1 m
<u>Pan Road Showings</u>	>2%Cu, >22%Zn, >17%Pb over 1.8 m width
<u>Polymetallic Shear Zone</u>	885 ppb Au, 3030 ppm Zn, 3.6 ppm Ag, 584 ppm Pb

Easy Showings

rock chip >5%Cu, 8 g/t Ag  
over 1.1 m width

In the northern portion of the property at the J-Branch Main Showing at the Jasper Minfile Occurrence, a previous assessment report described two massive sulphide lenses averaging 0.8 to 1.3 m true width and separated by 3 to 5 m of altered mafic volcanic which are traceable in outcrop in road-cuts over a strike length of +44 m. Representative continuous chip sampling returned weighted grades of over 2% Cu and 3% Zn over true widths of up to 2.7 m.

The best showing sampled to date in the south map sheet occurs at the Pan Road Showing (see Figure 5 and Figure 10). A weighted average interval over 1.99 m width returned values of 4.59% Cu, 17.37% Zn and 0.89% Pb with precious metal credits. A showing approximately 100 m to the south returned 2.13% Cu, 22.3% Zn and 17.2% Pb over 1.86 m.

For the work conducted in the current assessment period, Sample Locations for rock chip sampling are plotted at scales of 1:2,500 and 1:5,000 on Figures 21 to 26. Anomalous results are plotted for all samples on Figures 16 to 20. Sample descriptions are contained in Appendix III, Geochemical Data Sheets and Results are contained in Appendix IV, Analytical Results and Certificates.

Massive sulphide float boulders and new mineralized showings were discovered by following up of previous anomalous results and are summarized as follows:

#### Jasper Creek Showings

Anomalous Cu-Zn-Ag values are associated with narrow veinlets containing massive pyrite in Jasper Creek (Fig 16). Veinlets and chloritized mafic volcanic host rocks suggest stringer style mineralization is present. A 0.3 m angular massive sulphide float boulder, probably originating from the nearby canyon wall on the north side of the creek, contained crudely banded pyrite and chalcopyrite and returned values of >1% Cu and 120 ppb Au.

#### Upper Camp Creek Road Showings

Several new showings were discovered by prospecting the roadcuts of Upper Camp Creek (south portion of Fig 19, north portion of Fig 20). Both footwall stringer zone mineralization and massive sulphide float boulders are present. Two massive pyrite - chalcopyrite lenses are present at the lower switchback at an elevation of 550 m and returned assays of up to 8.9% Cu with anomalous Zn - Au - Ag over a 0.4 m width (Fig 19). The lenses strike southeasterly, stratabound with the silicified tuff or silica exhalite as described by geological mapping.

Approximately 100 m away on strike on the upper switchback at the 600 m level, seven narrow massive polymetallic sulphide showings occur over an additional strike length of 100 m (Fig 20). Best results include 2.3% Cu over 0.7 m and 1% Cu over 0.8 m and anomalous Zn, Au (to 136 ppb), and Ag.

Approximately 200 m further along the general south east trend, a narrow 1 m wide massive pyrite showing contains anomalous Ba, Ag, Pb, and + Mo. Narrow polymetallic massive sulphide showings are indicated over a total strike length of at least 400 m oriented stratabound to the felsic volcanic sequence and the main Four Mile Alteration Zone.

#### Pan Showing Area

Two narrow massive pyrite - chalcopyrite lenses occur at the 465 m elevation level on the spur road 100 m east of the Pan Road Showing and probably represent the strike extension of the Pan zone. Values of 1% Cu over 0.2 m with anomalous Zn, Au, Ag, and Mo are present. Sampling from the massive sulphide lense at the Pan Road Showing returned assays of 0.5% Cu, 10.2% Zn, 12.6% Pb and 45 ppb Au over a true width of 0.8 m.

#### Easy Showing Area

Narrow pyrite breccia zones were mapped at the Easy showing area approximately 400 m of the Pan showings (Fig 20). Best results

include 318 ppm Cu and 446 ppm Zn over 0.3 m. A massive sulphide float boulder contained 1.8% Cu from the same area.

### **3.0 SOIL AND STREAM SEDIMENT GEOCHEMISTRY**

Over 4,000 soil samples located on three principle grids are reported to have been taken historically on the property, including soil sampling on the J-Branch Main Showing. Previous soil sampling has established that coincident anomalous Cu-Zn +\ - Ag-Au values occur over a considerable portion of a +4 km strike length of the main Four Mile Alteration Zone.

#### **3.1 Procedure**

Conventional B horizon soil samples were taken on the cut grid at the Jasper J Branch Main Showing to "fill in" grid sampling conducted by a previous program. Stream sediment samples (moss mats where possible) were taken in Jasper Creek, Zinc Creek and Easy Creek.

Sample observations were recorded and are reported in Appendix III, Geochemical Data Sheets.

Soil and Stream Samples were dried and sieved to -80 mesh and analyzed by ICP-32 analytical techniques (See Sample Preparation, Analytical Techniques and Certificates of Analysis, Appendix IV).



### 3.2 Results

Analytical Results and Analytical Certificates are appended as Appendix IV. Soil and Stream Sediment Locations and Results are appended as Figures 21 to 26. Anomalous Results are plotted on Figures 16 to 20.

Strongly anomalous values were encountered from the soil grid at the Main Showing (Fig 18). Values of up to 224 ppm Cu and 368 ppm Zn occur within a previously established minimum 300 m long anomaly. Values of up to 576 ppm Cu and 382 ppm Zn are present along strike below J Branch Main road at the 570 m elevation level.

Values of up to 153 ppm Cu and 120 ppm Ba also occur in the southern portion of the grid.

A cluster of anomalies occurs at the northwestern most extent to the grid. Values of up to 145 ppm Cu, 876 ppm Zn and 0.6 ppm Ag are present in four strongly anomalous sites over 100 m.

Stream sediment sampling in Zinc Creek down drainage from the soil anomalies returned highly anomalous values of up to 215 ppm Cu and 1545 ppm Zn.

Stream sediment sampling in Jasper Creek also returned significant results (Fig 16). Au is anomalous at 5 sample sites with Cu - Zn values as high as 103 and 218 ppm respectively.

A stream sediment at Easy Creek returned strongly anomalous values of 268 ppm Cu and 162 ppm Zn (Fig 20).

#### **4.0 GEOPHYSICAL SURVEYS**

Geophysical Test Surveys were conducted by S J Geophysics and are reported as Appendix VI. In summary, weak HLEM and Induced Polarization chargeability anomalies are present associated with the J Branch Main Showing. The anomalies are also present on lines further to the south. Both HLEM and chargeability I.P. anomalies are also present in the headwaters of Zinc Creek at the northwestern most extent of the grid.

#### **5.0 CONCLUSIONS AND RECOMMENDATIONS**

A northerly trending extensive argillic pyritic alteration zone with a strike length >5 km extends up the drainage of Four Mile Creek and crosses the height of land at the Main Showing and extends northwesterly down Zinc Creek. The change in strike of the zone after it crosses the ridge top is thought to be because the zone has a moderate westerly dip. Within the alteration zone, four documented Minfile occurrences are present which have seen historical geological, geochemical and prospecting programs

conducted with encouraging results and seven mineralized showing areas are known to exist. The most important showing areas are discussed in order from north to south as follows:

#### J Branch Main Showing Area - Cut Grid

At the J Branch Main Showing, two massive sulphide lenses approximately of 0.8 m to 1.2 m (up to 2.7 m) width grading +2% Cu and + 3% Zn outcrop over a strike length of 44 m. Grid soil sampling has defined a Cu - Zn +/- Au - Ag soil anomaly over a >100 m strikelength. Coincident HLEM and I.P. Chargeability anomalies also occur and define the trend of the Main Zone mineralization. Diamond drilling on three section lines at 25 m intervals is recommended at the Main Zone. Stratigraphic holes are also recommended across the alteration zone where the coincident geochemical - geophysical anomalies occur.

Anomalous Cu - Zn - Au - Ag soil and stream sediments occur in the headwaters of Zinc Creek. This area lies at the northwestern extent of the cut grid. It is recommended that the grid be expanded in this area and that the soil and geophysical survey coverage be completed in this area. Detailed prospecting and mapping should also be done following up the results of the soil and geophysical surveys. Drilling is recommended contingent on positive results.

It is also recommended that the grid be extended to the south to include the Tam showing area as geochemical and geophysical anomalies are open along strike on this trend.

More detailed prospecting and mapping should be conducted along Jasper Creek to locate the source of the massive sulphide float boulder as well as to follow up the anomalous geochemistry.

#### Upper Camp Creek Road Area

Several massive sulphide showings and float occurrences were discovered by the current assessment exploration program over a strike length in excess of 400 m. The zone appears stratabound to a rhyolite unit and a possible silic exhalite or silic tuff. Both the nature of the mineralization and the geologic setting are possibly suggestive of a volcanogenic model for original sulphide deposition. Recent faulting and the severe alteration overprinting associated with the Four Mile Alteration Zone have remobilized some sulphides but a well mineralized trend is readily apparent. It is recommended that a cut grid be established and that soil and geophysical surveys be conducted followed by detailed prospecting and mapping.

#### Pan Showing Area

At the Pan Road Showing, an average weighted interval over a 0.8 m width returned assays of 0.5% Cu, 10.2% Zn and 12.6 % Pb.

Detailed prospecting and soil sampling should be conducted along the trend between the Pan Road showing and the upper spur road showings.

Easy Showing Area

Pyritic breccia and a float boulder containing 1.8% Cu were found in the Easy Showing area. Work by previous operators reported showings, soil and geophysical anomalies and drilling was recommended. It is recommended that all historical data be compiled and a cut grid be completed in key areas and drill targets be re-established. Drilling is recommended contingent on positive results.

It is concluded that the property offers excellent exploration potential based on the large scale size of the hydrothermal system, positive geochemical responses from areas tested to date and the presence of high grade outcrop showings in several localities. Additional exploration work is warranted.

Dated in North Vancouver, British Columbia this 31<sup>st</sup> day of July, 1996.

Arne O. Birkeland  
Arne O. Birkeland, P.Eng.



C:\DOC\JASR5.DOC

## APPENDIX I

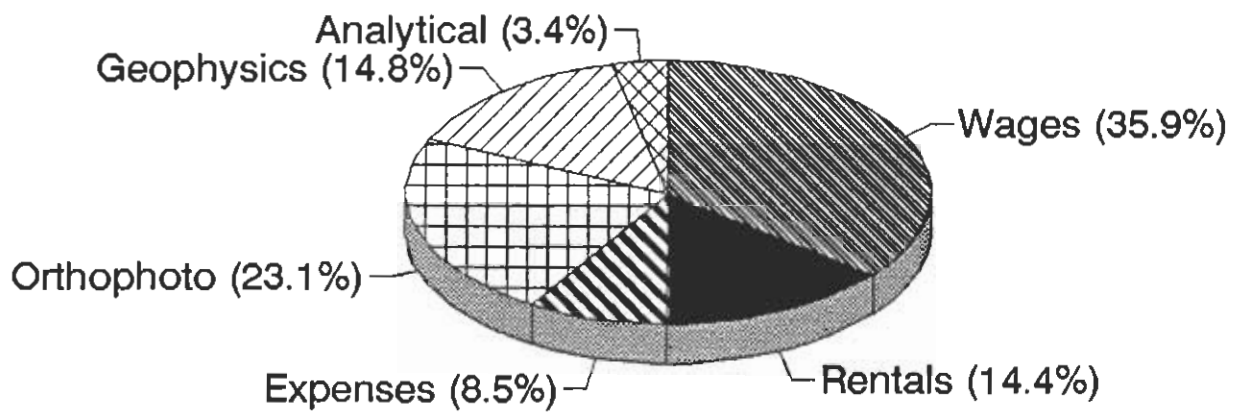
## JASPER PROPERTY - STATEMENT OF 1996 EXPENDITURES FOR ASSESSMENT PURPOSES

Description	Apr-May Man Days	Mar Man Days	Feb Man Days	Jan Man Days	SUBTOTAL	Rate	Amount	Total
P.Eng.	2		6	1	9	\$458	\$4,122	
P.Geol.	12	4	19		35	\$350	\$12,250	
Linecutters, Prospectors	24		55		79	\$200	\$15,800	
Subtotal Man Days					123		\$32,172	\$32,172
Rentals	\$3,971		\$8,926		\$12,897			\$12,897
Expenses Includes	\$4,060		\$40,600		\$44,660			\$7,590
Orthophoto					\$20,712			\$20,712
Geophysics					\$13,309			\$13,309
Analytical - Rx	53 sample @		\$22.35		\$1,185			
Analytical - RxA	7 sample @		\$41.30		\$289			
Analytical - Sx	84 sample @		\$18.75		\$1,575			
Subtotal Analy					\$3,049			\$3,049
TOTAL								\$89,729

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# JASPER PROPERTY

## 1996 Assessment Expenditures



APPENDIX II

CERTIFICATE OF QUALIFICATION

I, ARNE O. BIRKELAND, DO HEREBY CERTIFY THAT:

1. I am a Geological Engineer in the employ of Arnex Resources Ltd. with offices at 4005 Brockton Crescent, North Vancouver, British Columbia.
2. I am a 1972 graduate of the Colorado School of Mines with a Bachelor of Science Degree in Geological Engineering.
3. I have been a registered Professional Engineer with the Association of Professional Engineers of British Columbia (Registration No. 9870) since 1975.
4. My primary employment since 1966 has been in the field of mineral exploration, namely as a Geological Engineer.
5. My experience has encompassed a wide range of geological environments and has allowed considerable familiarization with geophysical, geochemical and diamond drilling techniques.
6. I have conducted the exploration work on the property reported on herein. This report is based on data acquired and also draws from researched published information available on the area.

DATED at North Vancouver, British Columbia,

this 31<sup>st</sup> day of July, 1996

*Arne O. Birkeland*  
ARNE O. BIRKELAND, P.ENG.





**APPENDIX III**  
**GEOCHEMICAL DATA SHEETS**

SAMPLER LINDINGER

DATE FEB 96

PROJECT JASPER

SAMPLE NO.	LOCATION	Depth Cm	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
				Colour	Part Size	% ORG.	Ph							
JXLL96600	PAN	10	B/C	RED BROWN	CLAY	25		20%	SCRUB	11077000				
JXLL96601	PAN	10	B	RED	CLAY	25		20%	HEMLOCK FIR	11				
JXLL96602	PAN	10	B/C	RED	CLAYEY	25		25%	SCRUB	11				
JXLL96603	PAN	10	B/C	RED	CLAYEY	5%		25%	SCRUB	11				
SX96-604	CAMP S1400N 0+00	5	B/C	DK BROWN	CLAYEY GRIT	5%		80%	LOGGED SLASH	SOIL TAKEN BELOW CLIFF @ Q 1045000 STAIN RECORDING				
SX96-605	S1400N 0+00	10	B/C	TAN	CLAY	5		5%N	SPRUCE HEMLOCK	11077000				
606	S1400N 0+50E	20	B/C	TAN RUST	CLAY SAND	25		15%N	"					
607	S1400N 1+00E	10	B/C	DK CLAY	STONY CLAY	5		15%N	"					
608	S1400N 1+00E	25	B/C	DK TAN	CLAY CLAY	5-10		15%N	BUCK BARREN					
609	S1400N 2+00E	15	B	MED BRN	STONY SILT	5		35%N	SPRUCE HEMLOCK					
610	S1400N 2+50E	15	B/C	MED BRN	STONY SILT	5		80%N	"					
611	S0450N 2+50E	15	B/C	GRY BRN	STONY CLAY	5		75%N	"					
612	S0450N 2+00E	10	C	GRY BRN	DERM SILT	25		20%N	"					
613	S0450N 1+50E	20	B/C	DK BRN	STONY GRIT	5		25%N	"					
614	S0450N 1+00E	15-20	B/C	RUST BRN	STONY SILT	25		15%NE	"					
615	S0450N 0+50E	15	B/C	DK BRN	STONY SILT	5		15%NE	"					
616	S1400N 0+50W	20	B	DK BRN	STONY SAND	5		5%N	"					
617	S1400N 1+00W	15	B/C	BRN	STONY SAND	10		5%NW	"					
618	S1400N 1+50W	15	B/C	TAN	STONY CLAY	25		50%NW	CEA HEMLOCK					
SX96619	S1400N 2+00W	10	B/C	TAN	STONY SILT	5		50%N	"					

SAMPLER 100mm

DATE FEB 24 95

PROJECT ...

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph								
SX05820	5140W 2400W	15	B/C	TR	STONY CLAY	5		70%N	CEM SPR	TILL	Plotter				
671	2400W	15	L		STONY CLAY			80%N	CEM SPR	TILL					
67	50750N 3400W	35	B	BR	STONY SILT	45		70%N	CEM SPR						
67	50750N 3400W	10	B	BR	STONY SILT	45		70%N	CEM SPR						
67	50750N 5W	20	B	DK ORANGE	STONY SILT	5-7		70%NE							
67	50750N 2400W	15	B/C	"	"	5		60%NW							
67	50750N 1750W	10	B	"	STONY CLAY	45		50%N							
67	50750N 1700W	15	B	"	"	45		60%N	"						
67	50750N 2400W	15	B	"	"	45		30%N	HEAVY CEMENT						
67	50750N 1750W	15	B	"	STONY CLAY	15		30%N	CEMENT	- NO OF ...					
67	49750N 2400W	15	B	ORANGE TAN	STONY CLAY	45		80%NE	CEMENT		Plotter				
67	49750N 2500W	20	B	ORANGE TAN	STONY CLAY	2		70%N	HEM SPR						
67	49750N 1100W	15	B	ORANGE TAN	STONY CLAY	43		20%NE	"						
67	49750N 0700W	20	B	DARK ORANGE	STONY CLAY	45		70%N	"						
67	49750N 2400W	10	B/C	DARK ORANGE	STONY CLAY	5		50%N	HEM CLAY						
67	49750N 0750W	20	B	ORANGE TAN	STONY CLAY	15		5S	HEM CLAY						
67	49750N 1100W	30	B	ORANGE TAN	STONY SILT	5		10E	HEM SPR	20cm ORGANIC COVER					

SAMPLER LINDINSE

PROJECT JASCEP

DATE MAY 8 1995

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph								
SX96637	49100N 1450W	15	B	OR	STONY CLAY	5		5%N	HEM SPR	20 CM ORGANIC	A0				
SX96637	49100N 2100W	15	B/C	OR PRN	STONY CLAY	5		0	SPR HEM	QUARTZ	HEAVY O/C				
SX96639	" 2150W	20	B-C	LT PRN	GRITTY CLAY	5		2%W	SPR HEM	ACTUAL	CLAY O/C HEAVY				
SX96640	" 2270W	10	B	PRN	GRITTY CLAY	5		5%W	SPR HEM	POPPED	CLAY O/C HEAVY				
SX96641	47+00N 2400W	10	B/C	LT PRN	CLAY	5		2%W	HEM SPR	SILICIFIED	CLAY O/C HEAVY				
SX96641	47+00N 2150W	10	B	OR PRN	STONY CLAY	25		3%W	SPR HEM	SILICIFIED	CLAY O/C HEAVY				
SX96643	47+00N 1700E	20	B	OR PRN	STONY GRITTY	10		10%N	HEM	BRN	O/C HEAVY SIL				
SX96644	47+00N 1400E	10	B	GRN PRN	GRITTY CLAY	25		10%S	HEM	FRAGILE	BY O/C				
SX96645	47+00N 2400E	10	B	GRN PRN	CLAY	5		10%E	HEM	"	"				
SX96646	48+00N 5190E	10	B-C	PRN	SAND	25		30%W	SPR HEM	"	"				
SX96647	48+00N 5140E	10	B	PRN	SAND	5		10%W	SPR HEM	"	"				
SX96648	48+00N 5170E	20	B	OR PRN	SAND	25		20%W	HEM	SWAMP	ALL AROUND				
SX96649	48+00N 50+00E	15	C	OR PRN	SILT	5		0	HEM	"	"				
SX96650	48+00N 0+00	5	B	OR	SAND	25		5%S	SPR	- CREST	OF DUNE				
SX96651	48+00N 2+45W	10	B	PRN	GRITTY CLAY	10		20%W	HEM						
SX96652	47+00N 3+00W	15	B	OR PRN	GRITTY CLAY	25		10%S	HEM	- LARGE	ON AT				
SX96653	47+00N 3+00W	15	B	PRN	GRITTY CLAY	5		10%S	SPR HEM						
SX96654	47+00N 2+50W	10	B	TAN	CLAY	5-10		25%E	HEM	- SILTY	CLAY				
SX96655	48+00N 0+00	15	B	TAN	SILT	5		80%W	SPR	BASALT	O/C				
SX96656	46+00N 50+90E	10	B	OR GRN	CLAY	5		50%W	SPR HEM						

SAMPLER LIQUOR

PROJECT S.A.P.P.

DATE APR 8 2010

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph								
SX96652	46+00N 51+50E	15	S	DK GRAY	SILTY CLAY	5-10		40%W	SPR						
SX96658	48+00N 52+00E	10	B	TAN OR	SANDY CLAY	5		60%W	HEM	PHYL.					
SX96659	45+00N 51+00E	10	C	PK	SAND	10		50%W	BUCK	PK					
SX96660	0400 15+00E	10	B	PK	SANDY CLAY	5		50%W	SPR	BASELT "					
SX96661	15+00E	15	B	PK	SAND	5		40%W	HEM	"					
SX96662	45+00N 1+00E	10	B	DK GRAY	SANDY CLAY	45		40%W	HEM	"					
SX96663	1+00E	15	B	DK GRAY	SAND	45		60%W	SPR	" BRECCIA OR					
SX96664	45+00N 2+00E	15	B	DK GRAY	SAND	25		15%W	BUCK	"					
SX96665	46+00N 1+00W	5	C	LIGN	SANDY CLAY	45		50%SE	SPR	"					



SAMPLER LINDINGER

PROJECT JASPER

DATE FEB 96

SAMPLE NO.	VOLUME		DRAIN AGE	Ph	TYPE OF SAMPLE	COLOUR	TEXTURE	% ORGANIC MATERIAL	PETROLOGY OF BEDROCK AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
	Width	Depth									As	Ag	Cu	Zn
TXLL96-500	2m	10cm	ZINC CK		MOSS MAT	TAN BROWN	SILT SAND	70%	PACIFIC TUFF	PLOTTED				
TXLL96-501	1.5m	15cm	ZINC CK		MOSS MAT		"	75%	PACIFIC TUFF					
SXLL96-502	2m	75cm	PAN CK		ROOT MAT	MDK BROWN	"	80%	DISPERSED FRAGMENTED PACIFIC PPY					
SX96-503	1m	15cm			MOSS ROOT MAT	PAN BROWN	"	80%	"					
SX96-504	0.3m	5cm			MOSS MAT	DARK BROWN	"	90%	"					
SX96-505	1.5m	0.2m	TAN CK		MOSS MAT	PAN	SILT SAND	40%	"					
SX96-506	0.7m	0.1m	TAN CK		MOSS MAT	MDK	SILT SAND	40%	"					
SX96-507	1.5m	0.1m	ZINC CK		MOSS MAT	MDK BROWN	SILT SAND	10%	"					
SX96-508	0.6m	0.1m	TAN CK		MOSS MAT	MDK BROWN	SILT SAND	10%	"					
SX96-509	1.0m	0.1m	PAN CK		SILT MAT	TAN	SILT SAND	10%	"					
SX96-510	2.5	0.05	PAN CK		MOSS MAT	DK BROWN	SAND SILT	70%	"	MAIN SHOWING BRONZ GRAIN 0.2-0.5 TO 1.50m 205 W				





SAMPLER L. LIND

PROJECT 51

DATE FEB 95

SAMPLE NO.	LOCATION	ROCK TYPE	DESCRIPTION					ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
			Sample Type	APPARENT WIDTH TRUE WIDTH	Alteration	Freshness	Mineralization					
R140176	JONES	FELSIC VOLC	REP. CHIP	0.3m	MOD	GOOD						
177	CAMP	"	REP. CHIP	0.4m	INT. FELSIC	GOOD/MOD	2% PY	120°/75				
178	UPPER (RMI)	"	"	0.2m	"	GOOD	3% PY					
177	UPPER (RMI)	"	"	0.4m	"	GOOD	4% PY					
✓ 179	SUSPENSE	INT-FELSIC	REP. CHIP	0.7m	MOD	MOD	2.5% Sulf					
✓ 180	"	INT-FELSIC	REP. CHIP	0.6m	STR. PROP.	MOD	2.5% Sulf	120° STR				
✓ 181	"	"	REP. CHIP	0.7m	MOD	MOD	2% Sulf					
✓ 182	"	"	REP. CHIP	0.9m	INT. FELSIC	GOOD	15% FG	120°/75 REVERSE PC FAULT				
✓ 183	"	"	REP. CHIP	1.0	INT. FELSIC	MOD/GOOD	5% FG	100°/90				
✓ 184	"	INT-FELSIC	REP. CHIP	0.3	STR. PROP.	GOOD	2% PY	~100°/90				
✓ 185	"	"	SELECT CHIP	0.0m	"	MOD	6% VTG PY	090°/040				
✓ 186	"	INT-FELSIC	"	0.15	STR. PROP.	MOD	10% PY	060°/90				
✓ 187	"	FELSIC VOLC-INT?	REP. CHIP	0.7	STR. PROP.	MOD	2.5% PY	050°/70				
✓ 188	"	"	REP. CHIP	0.4m	STR. INT.	GOOD	5% PY	050°/70				
✓ 189	"	"	SELECT CHIP	0.15	INT. FELSIC	GOOD	15% FG	085°/90 ±10				
✓ 190	"	INT-FELSIC	REP. CHIP	0.3m	INT. FELSIC	MOD/GOOD	10% FG	~300°/60				
✓ 191	"	EXOSHAPE	GRAB	0.2m	SHAPE	GOOD	2% S. TON	FL0A7				
✓ 193	"	FELSIC VOLC-INT?	SELECT CHIP	0.2m	MOD. INT.	MOD/GOOD	2.3% PY	150°/45				
✓ 194	"	FELSIC VOLC-INT?	SELECT CHIP	0.2m	MOD. INT.	GOOD	5% PY	~130°/40				
R140195	ANON	EXOSHAPE	GRAB		MOD. INT.	MOD/GOOD	2.5% PY					

SAMPLER L. LINDINGER

PROJECT JASPER

DATE FEB 1996

SAMPLE NO.	LOCATION ✓	ROCK TYPE	DESCRIPTION					ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
			Sample Type	APPARENT WIDTH TRUE WIDTH	Alteration	Freshness	Mineralization					
1437657	PER	FLOAT	FLOAT	0.15m	SILICIFIED BLEACHED	GOOD	~5% PY	SAMPLE FROM 1.0m depth in JASPER CR TRIL.				
				1.0m	SILICIFIED		TR PY					
				0.1m		GOOD		QUARTZ (1.0m) (2.85m)				
			REP CHIP	1.0m	PERVIOUS	GOOD	~5% PY	QUARTZ 40' UCS + 20' UCS				
			REP CHIP	0.9m	SILICIFIED DRG.	GOOD	~5% PY TALCP	164-105m FROG UCS				
				1.0m	SILICIFIED DRG.	GOOD						
				1.6m		GOOD						
				1.2m		GOOD						
				0.7m		GOOD						
1437657	PAN SHOWING	CHLORITE PBS ZNS ZONE	REP CHIP	0.8m	INTENSE CHLORITE	GOOD TO MODERATE	PBS, ZNS, CHL PY	0.8m VERT CHIP OF PAN SHOWING - 5m NW RICHMOND				









**APPENDIX IV**  
**ANALYTICAL RESULTS AND CERTIFICATES**

1998 ANALYTICAL RESULTS - ROCK GEOCHEMISTRY  
 ARNEX RESOURCES LTD. PROJECT JAS  
 C:\JASQC98\JAS98RXWK1

SAMPLE NO.	Au ppb	Ag ppm	Cu ppm	Mo ppm	Zn ppm	Pb ppm	Ni ppm	Co ppm	Cr ppm	V ppm	W ppm	As ppm	Sb ppm	Hg ppm	Cd ppm	Ba ppm	Mn ppm	Fe %	K %	Ca %	Mg %	Al %	Ti %
140151	145	1	790	11	76	1080	4	12	153	31	-10	28	-2	-1	-0.5	100	295	4.47	0.22	0.03	0.50	1.09	0.04
140152	-5	-0.2	23	3	20	6	12	28	82	37	-10	12	-2	-1	-0.5	40	210	6.06	0.32	0.07	0.49	1.03	0.04
140156	95	5	985	8	60	16	1	8	14	43	-10	82	-2	1	-0.5	500	565	5.86	0.40	0.34	0.60	2.38	0.18
140157	-5	-0.2	22	5	110	14	2	7	23	46	-10	16	-2	-1	-0.5	280	1105	4.18	0.28	0.48	1.57	2.44	0.20
140158	-5	0.8	318	1	466	36	3	16	4	91	-10	8	-2	2	0.5	610	2800	6.68	0.30	0.45	2.28	3.45	0.20
140159	15	-0.2	81	1	166	12	4	11	15	67	-10	20	-2	-1	-0.5	70	1170	7.14	0.42	0.10	1.43	2.37	0.17
140180	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
140181	40	-0.2	42	3	44	12	4	15	117	47	-10	10	-2	-1	-0.5	20	425	5.34	0.40	0.60	0.58	1.18	0.12
140182	20	-0.2	41	10	24	8	6	13	113	97	-10	2	-2	-1	-0.5	50	300	9.42	0.14	0.43	0.91	1.74	0.08
140183	15	-0.2	29	-1	152	14	5	17	43	187	-10	64	-2	-1	-0.5	50	1730	7.38	0.30	0.51	1.94	2.73	0.33
140184	10	-0.2	23	6	32	20	8	12	45	29	-10	8	-2	-1	-0.5	100	230	4.14	0.34	0.01	0.59	1.30	-0.01
140185	-5	-0.2	99	7	56	4	6	8	91	104	-10	8	-2	-1	-0.5	10	580	7.82	0.05	0.59	1.11	1.56	0.29
140186	-5	-0.2	24	-1	56	8	8	11	58	97	-10	6	-2	-1	-0.5	90	680	5.06	0.17	0.44	1.44	2.28	0.23
140187	-5	-0.2	93	-1	78	6	3	10	41	63	-10	8	-2	-1	-0.5	220	1120	3.69	0.19	0.84	1.49	2.46	0.22
140188	55	0.8	417	23	372	110	4	29	41	80	-10	36	-2	-1	0.5	10	2170	11.75	0.18	0.11	2.56	3.32	0.01
140189	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
140170	886	3.6	105	22	3030	584	5	9	179	23	-10	46	-2	-1	24.5	30	740	4.95	0.11	0.03	1.27	1.13	0.01
140171	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
140172	10	0.4	27	11	54	12	7	10	83	56	-10	208	-2	-1	-0.5	80	705	3.57	0.20	0.19	1.13	1.20	0.06
140173	30	3.2	4890	273	194	-2	95	65	113	7	-10	-2	-2	-1	2	-10	350	15.00	-0.01	0.48	0.07	0.09	-0.01
140174	-5	0.2	400	2	22	2	5	12	164	32	-10	20	-2	-1	-0.5	260	405	2.65	0.01	0.23	0.62	0.89	0.01
140175	120	3.4	10000	3	22	42	6	50	80	17	-10	54	-2	-1	-0.5	-10	195	13.95	0.18	0.06	0.51	0.85	0.01
140178	40	1.2	35	5	2	2	3	32	102	4	-10	8	-2	-1	-0.5	10	35	7.34	0.35	0.03	0.05	0.42	0.03
140177	75	4	667	19	130	46	8	23	195	49	-10	20	-2	-1	-0.5	20	900	6.22	0.19	0.46	1.56	1.95	-0.01
140178	110	16.6	10000	21	188	34	7	44	137	45	-10	30	-2	-1	0.5	10	740	10.70	0.15	0.09	1.37	2.10	-0.01
140179	75	7.8	4330	33	116	40	7	27	151	44	-10	22	-2	-1	0.5	40	665	5.50	0.24	0.39	1.23	1.81	0.01
140180	-5	-0.2	85	-1	192	-2	20	26	17	187	-10	30	-2	1	-0.5	20	1525	6.43	0.12	1.31	4.04	5.26	0.42
140181	20	-0.2	77	-1	80	12	12	15	18	192	-10	18	-2	-1	-0.5	60	790	8.46	0.18	1.01	1.85	3.07	0.41
140182	-5	-0.2	21	-1	44	6	4	25	25	125	-10	6	-2	-1	-0.5	60	730	5.52	0.26	1.60	1.41	3.39	0.37
140183	-5	-0.2	10	3	20	4	19	271	97	77	-10	20	-2	1	-0.5	10	430	11.40	0.14	1.25	1.20	2.64	0.23
140184	-5	-0.2	5	-1	18	2	6	73	78	65	-10	-2	-2	-1	-0.5	90	425	4.86	0.23	1.64	0.93	2.40	0.28
140185	-5	-0.2	59	-1	78	6	3	13	16	46	-10	10	-2	-1	-0.5	220	1015	4.12	0.38	1.20	1.17	2.69	0.22
140186	-5	-0.2	3	-1	38	-2	40	37	103	86	-10	8	-2	-1	-0.5	40	700	7.07	0.03	0.82	2.96	3.60	0.21
140187	-5	-0.2	6	-1	32	-2	36	85	102	79	-10	4	-2	1	-0.5	-10	625	7.56	0.02	0.85	2.52	3.23	0.21
140188	10	-0.2	231	-1	82	6	13	25	16	106	-10	6	-2	1	-0.5	60	770	5.17	0.12	1.61	1.76	4.04	0.20
140189	-5	-0.2	12	1	8	2	4	4	58	8	-10	6	-2	-1	-0.5	110	145	2.70	0.23	0.39	0.20	1.17	-0.01
140190	40	1	53	7	2	18	29	16	102	8	-10	10	-2	-1	-0.5	-10	25	7.55	0.15	0.02	0.03	0.29	-0.01
140191	10	1.4	41	9	6	6	15	20	36	16	-10	12	-2	1	-0.5	10	50	7.24	0.38	0.07	0.10	0.76	-0.01
140192	-5	-0.2	80	-1	48	-2	1	28	23	3	-10	16	-2	1	-0.5	70	7860	12.30	-0.01	7.01	0.12	0.10	-0.01
140193	5	0.2	6	3	16	4	2	15	100	6	-10	-2	-2	-1	-0.5	60	255	3.65	0.38	0.31	0.29	0.96	0.06
140194	20	1.2	2010	-1	94	14	3	37	30	56	-10	26	-2	-1	-0.5	70	1255	7.16	0.41	0.75	1.54	2.62	0.26
140195	-5	-0.2	163	7	14	8	1	4	51	20	-10	4	-2	-1	-0.5	670	185	2.77	0.27	0.30	0.28	1.53	0.04
140196	-5	-0.2	48	14	6	-2	2	9	99	4	-10	4	-2	-1	-0.5	90	135	1.61	0.33	0.15	0.16	0.72	0.01
140197	-5	-0.2	41	-1	56	2	15	16	54	174	-10	10	-2	1	-0.5	70	495	4.10	0.01	4.19	2.20	5.39	0.22
140198	45	5	269	7	218	136	7	12	98	71	-10	20	-2	-1	-0.5	120	1520	3.63	0.14	0.15	2.51	2.75	-0.01
140199	45	3	6290	4	70	10	7	27	178	40	-10	12	-2	-1	-0.5	50	990	6.05	0.10	0.06	1.44	2.18	0.01
140200	5	0.2	50	-1	46	8	9	15	82	45	-10	12	-2	-1	-0.5	60	835	3.83	0.30	0.16	1.10	1.45	-0.01
437651	-5	0.2	52	-1	220	14	8	14	29	96	-10	22	-2	-1	-0.5	60	3010	4.05	0.21	1.50	4.00	3.39	-0.01
437652	5	0.4	37	8	62	14	9	13	83	64	-10	84	-2	-1	-0.5	60	1525	4.15	0.19	1.06	1.59	1.69	0.02
437653	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
437654	50	2.6	1030	10	306	22	7	18	39	100	-10	22	-2	-1	-0.5	80	2960	7.48	0.12	0.14	4.46	4.61	-0.01
437655	30	1.2	1860	51	102	8	7	26	125	58	-10	80	-2	-1	-0.5	60	1220	6.36	0.18	0.11	1.88	2.48	0.02
437656	20	-0.2	35	8	112	20	11	13	19	49	-10	6	-2	1	-0.5	60	1290	6.51	0.31	0.35	2.16	3.17	0.05
437657	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
437658	-5	0.4	21	1	90	12	4	8	63	28	-10	12	-2	1	-0.5	60	645	3.70	0.23	0.36	1.30	1.56	0.12
437659	-5	0.8	17	3	94	20	3	6	21	62	-10	12	-2	-1	-0.5	90	790	4.59	0.17	0.19	2.04	2.82	0.01
437660	-5	0.4	7	1	106	8	2	4	33	22	-10	24	-2	-1	-0.5	210	1475	2.86	0.18	0.18	1.59	2.06	0.02
437661	-5	1	34	5	100	46	1	3	29	21	-10	52	-2	-1	0.5	280	975	3.09	0.17	0.06	1.12	1.54	0.11



1998 ANALYTICAL RESULTS - SOIL AND STREAM SEDIMENT GEOCHEMISTRY  
 ARNEX RESOURCES LTD. PROJECT JAS  
 C:\JASGC98\JAS98SX.WK1

SAMPLE NO.	Au ppb	Ag ppm	Cu ppm	Mo ppm	Zn ppm	Pb ppm	Ni ppm	Co ppm	Cr ppm	V ppm	W ppm	As ppm	Sb ppm	Hg ppm	Cd ppm	Ba ppm	Mn ppm	Fe %	K %	Ca %	Mg %	Al %	Ti %
96505	45	-0.2	63	-1	64	8	13	20	27	228	-10	8	-2	-1	-0.5	110	975	7.23	0.07	1.02	1.63	3.17	0.22
96506	25	-0.2	68	-1	94	10	9	17	17	125	-10	10	-2	-1	-0.5	150	1005	4.98	0.10	0.98	1.12	3.44	0.17
96507	65	-0.2	69	-1	92	8	12	21	25	211	-10	8	-2	-1	-0.5	130	1020	7.13	0.09	1.04	1.60	3.5	0.23
96508	90	-0.2	103	-1	218	16	12	21	28	179	-10	8	-2	-1	0.5	310	1075	6.24	0.09	0.99	1.40	2.95	0.23
96509	-5	-0.2	57	-1	68	6	12	17	19	138	-10	6	-2	-1	-0.5	100	950	4.82	0.08	1.18	1.31	2.95	0.19
96510	-5	-0.2	59	-1	68	2	17	17	28	124	-10	6	-2	-1	-0.5	70	860	4.91	0.08	1.57	1.38	2.67	0.18
96511	10	0.8	199	3	876	14	5	19	11	105	-10	12	-2	-1	10	500	4560	4.34	0.14	1.39	0.79	4.09	0.07
96505	2	-0.2	27	5	34	8	1	7	21	227	-10	8	2	-1	-0.5	30	175	6.59	0.03	0.11	0.28	2.75	0.15
96506	10	-0.2	80	1	78	18	5	9	38	185	-10	6	-2	-1	-0.5	30	375	7.85	0.04	0.11	0.66	6.6	0.15
96507	-5	-0.2	8	-1	20	2	2	4	13	152	-10	-2	-2	-1	-0.5	10	150	2.93	0.03	0.17	0.38	1.57	0.15
96508	-5	0.4	27	7	80	10	5	8	11	80	-10	8	2	-1	0.5	140	685	3.14	0.08	0.23	0.53	4.2	0.07
96509	20	-0.2	25	2	66	6	5	10	16	196	-10	6	-2	-1	-0.5	60	510	6.98	0.03	0.11	0.38	3.64	0.18
96510	-5	-0.2	29	-1	42	8	4	10	20	196	-10	-2	-2	-1	0.5	40	335	6.42	0.05	0.08	0.53	3.2	0.20
96511	15	-0.2	24	-1	42	24	5	9	12	145	-10	2	-2	-1	-0.5	100	570	4.74	0.10	0.09	0.46	3.13	0.04
96512	10	0.6	28	2	36	8	5	8	19	175	-10	-2	-2	-1	-0.5	50	305	5.29	0.04	0.10	0.39	3.67	0.09
96513	-5	-0.2	12	-1	36	8	3	5	9	91	-10	2	-2	-1	-0.5	60	295	3.62	0.07	0.08	0.80	3.41	0.05
96514	15	-0.2	19	1	48	10	4	8	24	204	-10	-2	-2	-1	-0.5	30	290	7.84	0.03	0.10	0.39	5.59	0.17
96515	-5	-0.2	125	3	100	16	7	13	22	166	-10	4	-2	-1	-0.5	60	825	6.12	0.09	0.45	1.14	5.15	0.18
96516	-5	0.2	93	1	64	24	3	5	11	116	-10	2	-2	-1	0.5	60	285	3.78	0.09	0.16	0.42	3.13	0.07
96517	10	0.6	59	2	82	12	-1	5	4	100	-10	-2	-2	-1	0.5	180	755	5.40	0.07	0.23	0.52	5.84	0.02
96518	-5	0.4	25	3	100	10	3	6	7	133	-10	4	-2	-1	-0.5	180	625	4.48	0.05	0.30	0.79	3.84	0.04
96519	-5	0.6	42	-1	46	14	-1	3	6	135	-10	8	-2	-1	-0.5	80	360	4.68	0.11	0.22	0.35	3.41	0.12
96520	20	-0.2	58	3	58	14	3	5	17	187	-10	8	-2	-1	-0.5	40	205	6.85	0.03	0.13	0.39	4.43	0.15
96521	-5	0.2	139	3	250	34	-1	3	6	100	-10	8	-2	-1	-0.5	70	295	6.80	0.04	0.10	0.35	5.58	0.09
96522	-5	-0.2	33	2	48	14	2	4	13	180	-10	-2	-2	-1	0.5	70	175	5.78	0.03	0.15	0.28	3.17	0.12
96523	-5	-0.2	133	5	230	6	4	8	12	179	-10	10	-2	-1	-0.5	80	385	5.82	0.03	0.16	0.56	6.13	0.14
96524	-5	-0.2	146	4	440	22	4	10	17	143	-10	16	-2	-1	1	150	580	5.28	0.06	0.36	0.59	5.33	0.15
96525	-5	-0.2	97	1	108	18	2	7	6	120	-10	-2	-2	-1	-0.5	120	690	5.52	0.05	0.14	1.02	4.85	0.03
96526	-5	-0.2	49	3	82	12	2	6	14	163	-10	10	-2	-1	-0.5	40	475	6.75	0.03	0.15	0.63	4.93	0.08
96527	-5	0.2	81	3	110	18	1	8	10	134	-10	8	-2	-1	-0.5	60	330	6.03	0.03	0.16	0.41	5.82	0.05
96528	-5	-0.2	63	3	82	36	-1	3	10	143	-10	6	-2	-1	-0.5	80	300	7.39	0.04	0.18	0.54	4.85	0.04
96528	70	0.8	576	6	362	142	2	9	7	72	-10	14	2	-1	2.5	200	1200	6.92	0.20	0.28	1.35	2.53	0.10
96530	-5	-0.2	7	-1	36	8	1	2	10	67	-10	8	-2	-1	-0.5	40	105	3.70	0.03	0.08	0.12	6.12	0.07
96531	-5	-0.2	15	1	36	12	4	5	20	217	-10	2	-2	-1	-0.5	40	200	6.44	0.04	0.14	0.37	4.22	0.13
96532	-5	-0.2	17	-1	40	10	4	7	22	260	-10	-2	-2	-1	-0.5	30	275	7.35	0.03	0.15	0.69	3.51	0.21
96533	-5	-0.2	4	-1	18	6	1	4	16	200	-10	2	-2	-1	-0.5	10	150	4.33	0.03	0.06	0.26	1.4	0.12
96534	-5	0.6	36	1	90	16	3	50	17	225	-10	2	2	-1	-0.5	50	4310	7.41	0.06	0.16	0.69	5.24	0.12
96535	-5	0.6	224	6	156	42	3	31	10	67	-10	8	-2	-1	0.5	80	1575	3.30	0.04	0.12	0.36	5.48	0.05
96536	-5	0.2	128	6	368	18	3	11	13	137	-10	-2	-2	-1	1.5	200	830	5.97	0.05	0.22	0.77	6.42	0.12
96537	-5	-0.2	49	-1	78	10	1	4	19	161	-10	14	-2	-1	0.5	30	205	8.45	0.01	0.08	0.29	6.77	0.13
96538	-5	0.2	82	-1	82	14	3	7	15	145	-10	10	-2	-1	-0.5	50	595	5.88	0.03	0.15	0.45	4.55	0.11
96539	10	0.2	30	-1	58	14	2	6	13	185	-10	10	-2	-1	-0.5	60	600	6.64	0.04	0.19	0.38	3.76	0.14
96540	-5	0.2	75	-1	94	12	4	9	19	185	-10	8	2	-1	-0.5	40	545	7.10	0.04	0.17	0.51	4.37	0.17
96541	-5	-0.2	52	-1	50	10	2	6	9	208	-10	2	2	-1	-0.5	30	390	6.28	0.02	0.31	0.35	3.48	0.21
96542	-5	0.2	64	-1	70	12	2	4	10	173	-10	-2	4	1	-0.5	40	450	7.91	0.04	0.11	0.37	4.65	0.15
96543	-5	-0.2	14	1	30	6	3	4	13	128	-10	2	2	-1	-0.5	30	175	4.43	0.04	0.11	0.35	2.18	0.09
96544	-5	-0.2	15	1	48	14	5	5	16	127	-10	8	4	-1	-0.5	40	205	4.09	0.04	0.11	0.48	3.7	0.08
96545	-5	-0.2	29	-1	50	8	8	8	19	148	-10	8	-2	-1	-0.5	40	325	5.53	0.04	0.13	0.53	3.82	0.11
96546	-5	-0.2	17	1	48	10	4	5	17	149	-10	2	-2	-1	-0.5	40	550	5.61	0.04	0.10	0.35	3.5	0.08
96547	-5	-0.2	42	7	70	10	6	9	21	151	-10	12	-2	-1	0.5	80	250	6.37	0.04	0.10	0.53	5.13	0.13
96548	-5	-0.2	31	-1	64	8	5	6	23	181	-10	8	2	-1	-0.5	40	285	6.93	0.03	0.08	0.57	5.33	0.14
96549	-5	-0.2	56	2	96	18	6	13	13	103	-10	12	4	-1	-0.5	100	1095	4.13	0.11	0.90	1.22	4.29	0.12
96550	-5	0.2	93	-1	118	14	3	5	52	302	-10	12	2	-1	-0.5	30	320	9.25	0.02	0.06	0.43	3.44	0.14
96551	-5	-0.2	11	-1	20	6	1	3	10	176	-10	2	2	-1	-0.5	20	100	3.73	0.03	0.15	0.08	1.22	0.10
96552	-5	0.2	57	7	106	42	4	5	15	135	-10	10	-2	-1	-0.5	40	320	6.60	0.03	0.12	0.46	5.13	0.10
96553	-5	0.4	46	4	196	22	4	29	12	117	-10	8	4	-1	1.5	90	945	5.24	0.04	0.26	0.34	5.42	0.14
96554	-5	-0.2	18	3	46	18	1	3	8	122	-10	10	2	1	0.5	50	170	4.55	0.04	0.17	0.24	2.67	0.09
96555	-5	0.2	53	-1	84	6	6	10	27	148	-10	8	6	-1	-0.5	40	485	5.87	0.04	0.12	0.64	7.68	0.25
96556	-5	-0.2	153	-1	80	8	7	29	36	204	-10	4	-2	-1	0.5	120	4590	5.62	0.08	0.39	1.55	3.28	0.20
96557	-5	-0.2	9	-1	26	6	2	3	13	229	-10	2	2	-1	-0.5	30	170	4.92	0.03	0.10	0.31	1.39	0.18
96558	-5	-0.2	17	-1	48	10	4	5	17	182	-10	4	-2	-1	-0.5	20	350	6.96	0.03	0.07	0.32	3.57	0.11
96559	-5	-0.2	30	-1	88	10	11	14	24	180	-10	8	2	-1	-0.5	70	1390	6.27	0.06	0.33	1.21	3.81	0.19
96560	-5	-0.2	76	-1	74	42	6	11	27	255	-10	-2	6	-1	-0.5	40	595	7.80	0.05	0.12	0.73	3.96	0.15
96562	-5	-0.2	11	-1	44	10	5	8	35	228	-10	-2	2	-1	-0.5	30	350	5.97	0.03	0.19	0.76	2.78	0.21
96563	-5	-0.2	5	-1	24	4	1	3	43	254	-10	-2	2	1	-0.5	10	110	6.16	0.01	0.06			

1996 ASSAY RESULTS - HIGH-GRADE ROCK CHIP SAMPLES  
ARNEX RESOURCES LTD. PROJECT JAS  
C:\JASGC96\A9614982.WK1

SAMPLE NO.	Cu %	Pb %	Zn %	Cd %
437653	8.9			
437657		12.6	10.2	0.121



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
 N.VANCOUVER, BC  
 V7G 1E5

A9612710

Comments: ATTN:A.O. BIRKELAND

CERTIFICATE

A9612710

(AN) - ARNEX RESOURCES LIMITED

Project:  
 P.O. #:

Samples submitted to our lab in Vancouver, BC.  
 This report was printed on 4-MAR-96.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	33	Geochem ring to approx 150 mesh
226	33	0-3 Kg crush and split
3202	33	Rock - save entire reject
229	33	ICP - AQ Digestion charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	33	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	33	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	33	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	33	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	33	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	33	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	33	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	33	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	33	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	33	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	33	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	33	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	33	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	33	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	33	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	33	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	33	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	33	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	33	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	33	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	33	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	33	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	33	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	33	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	33	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	33	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	33	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	33	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	33	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	33	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	33	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	33	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	33	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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 212 Brooksbank Ave., North Vancouver  
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To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
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Project :  
 Comments: ATTN:A.O. BIRKELAND

Page Number : 1-A  
 Total Pages : 1  
 Certificate Date: 04-MAR-96  
 Invoice No. : I9612710  
 P.O. Number :  
 Account : AN

\*\*PLEASE NOTE

## CERTIFICATE OF ANALYSIS A9612710

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
R140173	205 226	30	3.2	0.09	< 2	< 10	< 0.5	< 2	0.48	2.0	65	113	4860	>15.00	< 10	< 1	< 0.01	< 10	0.07	350
R140174	205 226	< 5	0.2	0.89	20	260	< 0.5	< 2	0.23	< 0.5	12	164	400	2.65	< 10	< 1	0.01	< 10	0.62	405
R140175	205 226	120	3.4	0.85	54	< 10	< 0.5	Intf*	0.06	< 0.5	50	80	>10000	13.95	< 10	< 1	0.18	< 10	0.51	195
R140176	205 226	40	1.2	0.42	8	10	< 0.5	< 2	0.03	< 0.5	32	102	35	7.34	< 10	< 1	0.35	< 10	0.05	35
R140177	205 226	75	4.0	1.95	20	20	< 0.5	2	0.46	< 0.5	23	195	667	6.22	< 10	< 1	0.19	< 10	1.56	900
R140178	205 226	110	16.8	2.10	30	10	< 0.5	Intf*	0.09	0.5	44	137	>10000	10.70	< 10	< 1	0.15	< 10	1.37	740
R140179	205 226	75	7.6	1.81	22	40	< 0.5	2	0.39	0.5	27	151	4330	5.50	< 10	< 1	0.24	< 10	1.23	665
R140180	205 226	< 5	< 0.2	5.26	30	20	< 0.5	4	1.31	< 0.5	26	17	85	6.43	10	1	0.12	< 10	4.04	1525
R140181	205 226	20	< 0.2	3.07	18	60	< 0.5	< 2	1.01	< 0.5	15	18	77	8.48	10	< 1	0.18	< 10	1.85	760
R140182	205 226	< 5	< 0.2	3.39	6	60	< 0.5	2	1.60	< 0.5	25	25	21	5.52	10	< 1	0.28	< 10	1.41	730
R140183	205 226	< 5	< 0.2	2.64	20	10	< 0.5	2	1.25	< 0.5	271	97	10	11.40	10	1	0.14	< 10	1.20	430
R140184	205 226	< 5	< 0.2	2.40	< 2	90	< 0.5	2	1.64	< 0.5	73	78	5	4.88	< 10	< 1	0.23	< 10	0.93	425
R140185	205 226	< 5	< 0.2	2.69	10	220	< 0.5	2	1.20	< 0.5	13	16	59	4.12	< 10	< 1	0.38	< 10	1.17	1015
R140186	205 226	< 5	< 0.2	3.60	8	40	< 0.5	4	0.82	< 0.5	37	103	3	7.07	10	< 1	0.03	< 10	2.96	700
R140187	205 226	< 5	< 0.2	3.23	4	< 10	< 0.5	2	0.85	< 0.5	85	102	6	7.58	10	1	0.02	< 10	2.52	625
R140188	205 226	10	< 0.2	4.04	6	60	< 0.5	< 2	1.81	< 0.5	25	16	231	5.17	10	1	0.12	< 10	1.76	770
R140189	205 226	< 5	< 0.2	1.17	6	110	< 0.5	< 2	0.39	< 0.5	4	58	12	2.70	< 10	< 1	0.23	< 10	0.20	145
R140190	205 226	40	1.0	0.29	10	< 10	< 0.5	4	0.02	< 0.5	16	102	53	7.55	< 10	< 1	0.15	< 10	0.03	25
R140191	205 226	10	1.4	0.76	12	10	< 0.5	< 2	0.07	< 0.5	20	36	41	7.24	< 10	1	0.38	< 10	0.10	50
R140192	205 226	< 5	< 0.2	0.10	16	70	0.5	< 2	7.01	< 0.5	28	23	80	12.30	< 10	1	< 0.01	< 10	0.12	7860
R140193	205 226	5	0.2	0.96	< 2	60	< 0.5	2	0.31	< 0.5	15	100	6	3.65	< 10	< 1	0.38	< 10	0.29	255
R140194	205 226	20	1.2	2.62	26	70	< 0.5	< 2	0.75	< 0.5	37	30	2010	7.16	< 10	< 1	0.41	< 10	1.54	1255
R140195	205 226	< 5	< 0.2	1.53	4	670	< 0.5	< 2	0.30	< 0.5	4	51	163	2.77	< 10	< 1	0.27	< 10	0.28	185
R140196	205 226	< 5	< 0.2	0.72	4	90	< 0.5	< 2	0.15	< 0.5	9	99	48	1.61	< 10	< 1	0.33	< 10	0.16	135
R140197	205 226	< 5	< 0.2	5.39	10	70	0.5	< 2	4.19	< 0.5	16	54	41	4.10	10	1	0.01	< 10	2.20	495
R140198	205 226	45	5.0	2.75	20	120	< 0.5	2	0.15	< 0.5	12	98	269	3.63	10	< 1	0.14	< 10	2.51	1520
R140199	205 226	45	3.0	2.18	12	50	< 0.5	2	0.08	< 0.5	27	178	6290	6.05	10	< 1	0.10	< 10	1.44	990
R140200	205 226	5	0.2	1.45	12	80	< 0.5	< 2	0.18	< 0.5	15	82	50	3.83	< 10	< 1	0.30	< 10	1.10	835
H437651	205 226	< 5	0.2	3.39	22	60	< 0.5	< 2	1.50	< 0.5	14	29	52	4.05	10	< 1	0.21	< 10	4.00	3010
H437652	205 226	5	0.4	1.69	84	60	< 0.5	2	1.06	< 0.5	13	83	37	4.15	< 10	< 1	0.19	< 10	1.59	1525
H437654	205 226	50	2.6	4.61	22	80	< 0.5	2	0.14	< 0.5	18	39	1030	7.48	10	< 1	0.12	< 10	4.46	2980
H437655	205 226	30	1.2	2.48	80	60	< 0.5	2	0.11	< 0.5	28	125	1860	6.36	< 10	< 1	0.18	< 10	1.88	1220
H437656	205 226	20	< 0.2	3.17	6	60	< 0.5	2	0.35	< 0.5	13	19	35	6.51	10	1	0.31	< 10	2.16	1290

CERTIFICATION:

*Phai D Ma*

\*\*INTERFERENCES: HIGH Cu on Bi



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
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V7G 1E5

Project :  
Comments: ATTN:A.O. BIRKELAND

Page Number :1-B  
Total Pages :1  
Certificate Date: 04-MAR-96  
Invoice No. :I9612710  
P.O. Number :  
Account :AN

\*\*PLEASE NOTE

## CERTIFICATE OF ANALYSIS

A9612710

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R140173	205 226	273 < 0.01		95	220	< 2	< 2	< 1	3 < 0.01	< 10	< 10		7 < 10		194
R140174	205 226	2 < 0.01		5	770	2	< 2	1	10 0.01	< 10	< 10		32 < 10		22
R140175	205 226	3 < 0.01		6	180	42	< 2	< 1	3 0.01	< 10	< 10		17 < 10		22
R140176	205 226	5 < 0.01		3	140	2	< 2	< 1	3 0.03	< 10	< 10		4 < 10		2
R140177	205 226	19 < 0.01		6	320	46	< 2	3	8 < 0.01	< 10	< 10		49 < 10		130
R140178	205 226	21 < 0.01		7	290	34	< 2	2	5 < 0.01	< 10	< 10		45 < 10		188
R140179	205 226	33 < 0.01		7	490	40	< 2	3	6 0.01	< 10	< 10		44 < 10		116
R140180	205 226	< 1 < 0.01		20	1140	< 2	< 2	19	53 0.42	< 10	< 10		187 < 10		192
R140181	205 226	< 1 0.01		12	1390	12	< 2	14	57 0.41	< 10	< 10		192 < 10		80
R140182	205 226	< 1 0.01		4	1050	6	< 2	11	121 0.37	< 10	< 10		125 < 10		44
R140183	205 226	3 < 0.01		19	870	4	< 2	5	115 0.23	< 10	< 10		77 < 10		20
R140184	205 226	< 1 < 0.01		6	1220	2	< 2	5	116 0.26	< 10	< 10		65 < 10		16
R140185	205 226	< 1 0.01		3	830	6	< 2	7	80 0.22	< 10	< 10		46 < 10		78
R140186	205 226	< 1 < 0.01		40	980	< 2	< 2	5	67 0.21	< 10	< 10		86 < 10		38
R140187	205 226	< 1 < 0.01		38	840	< 2	< 2	4	72 0.21	< 10	< 10		79 < 10		32
R140188	205 226	< 1 < 0.01		13	940	6	< 2	6	96 0.20	< 10	< 10		106 < 10		82
R140189	205 226	1 0.03		4	590	2	< 2	< 1	29 < 0.01	< 10	< 10		8 < 10		8
R140190	205 226	7 < 0.01		29	90	18	< 2	< 1	5 < 0.01	< 10	< 10		8 < 10		2
R140191	205 226	9 0.01		15	510	6	< 2	1	4 < 0.01	< 10	< 10		16 < 10		6
R140192	205 226	< 1 < 0.01		1	30	< 2	< 2	< 1	9 < 0.01	< 10	< 10		3 < 10		48
R140193	205 226	3 0.04		2	210	4	< 2	< 1	19 0.06	< 10	< 10		6 < 10		16
R140194	205 226	< 1 < 0.01		3	880	14	< 2	7	11 0.26	< 10	< 10		56 < 10		94
R140195	205 226	7 0.04		1	360	8	< 2	3	37 0.04	< 10	< 10		20 < 10		14
R140196	205 226	14 0.01		2	100	< 2	< 2	< 1	10 0.01	< 10	< 10		4 < 10		6
R140197	205 226	< 1 0.03		15	590	2	< 2	14	54 0.22	< 10	< 10		174 < 10		56
R140198	205 226	7 0.01		7	450	136	< 2	6	7 < 0.01	< 10	< 10		71 < 10		218
R140199	205 226	4 < 0.01		7	400	10	< 2	2	2 0.01	< 10	< 10		40 < 10		70
R140200	205 226	< 1 < 0.01		9	590	8	< 2	4	4 < 0.01	< 10	< 10		45 < 10		46
H437651	205 226	< 1 < 0.01		8	710	14	< 2	9	18 < 0.01	< 10	< 10		98 < 10		220
H437652	205 226	8 < 0.01		9	690	14	< 2	5	16 0.02	< 10	< 10		64 < 10		62
H437654	205 226	10 < 0.01		7	620	22	< 2	7	6 < 0.01	< 10	< 10		100 < 10		306
H437655	205 226	51 < 0.01		7	510	8	< 2	4	8 0.02	< 10	< 10		58 < 10		102
H437656	205 226	8 0.01		11	990	20	< 2	5	11 0.05	< 10	< 10		49 < 10		112

CERTIFICATION:

*Yhai D Ma*

\*\*INTERFERENCES: HIGH Cu on Bi



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Analytical Chemists \* Geochemists \* Registered Assayers  
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To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
 N.VANCOUVER, BC  
 V7G 1E5

A9612711

Comments: ATTN:A.O.BIRKELAND

CERTIFICATE

A9612711

(AN ) - ARNEX RESOURCES LIMITED

Project:  
 P.O. #:

Samples submitted to our lab in Vancouver, BC.  
 This report was printed on 4-MAR-96.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
209	2	High grade assay ring
1364	2	High grade crush and split
3202	2	Rock - save entire reject
233	2	Assay AQ ICP digestion charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	2	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
4001	2	Ag ppm : A30 ICP package	ICP-AES	1	200
4002	2	Al %: A30 ICP package	ICP-AES	0.01	15.00
4003	2	As ppm: A30 ICP package	ICP-AES	10	50000
4004	2	Ba ppm: A30 ICP package	ICP-AES	20	200000
4005	2	Be ppm: A30 ICP package	ICP-AES	5	100
4006	2	Bi ppm: A30 ICP package	ICP-AES	10	50000
4007	2	Ca %: A30 ICP package	ICP-AES	0.01	30.0
4008	2	Cd ppm: A30 ICP package	ICP-AES	5	1000
4009	2	Co ppm: A30 ICP package	ICP-AES	5	50000
4010	2	Cr ppm: A30 ICP package	ICP-AES	10	20000
4011	2	Cu ppm: A30 ICP package	ICP-AES	5	50000
4012	2	Fe %: A30 ICP package	ICP-AES	0.01	30.0
4013	2	Hg ppm: A30 ICP package	ICP-AES	10	10000
4014	2	K %: A30 ICP package	ICP-AES	0.01	20.0
4015	2	Mg %: A30 ICP package	ICP-AES	0.01	30.0
4016	2	Mn ppm: A30 ICP package	ICP-AES	10	50000
4017	2	Mo ppm: A30 ICP package	ICP-AES	5	50000
4018	2	Na %: A30 ICP package	ICP-AES	0.01	20.0
4019	2	Ni ppm: A30 ICP package	ICP-AES	5	50000
4020	2	P ppm: A30 ICP package	ICP-AES	100	10000
4021	2	Pb ppm: A30 ICP package	ICP-AES	5	50000
4022	2	Sb ppm: A30 ICP package	ICP-AES	10	10000
4023	2	Sc ppm: A30 ICP package	ICP-AES	5	10000
4024	2	Sr ppm: A30 ICP package	ICP-AES	5	10000
4025	2	Ti %: A30 ICP package	ICP-AES	0.01	10.00
4026	2	Tl ppm: A30 ICP package	ICP-AES	20	10000
4027	2	U ppm: A30 ICP package	ICP-AES	20	10000
4028	2	V ppm: A30 ICP package	ICP-AES	20	50000
4029	2	W ppm: A30 ICP package	ICP-AES	20	10000
4030	2	Zn ppm: A30 ICP package	ICP-AES	5	50000



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Total Pages :1  
Certificate Date: 04-MAR-96  
Invoice No. :19612711  
P.O. Number :  
Account :AN

## CERTIFICATE OF ANALYSIS

### A9612711

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Mg %	Mn ppm	Mo ppm	Na %
H437653	2091364	50	51	1.45	50	20	< 5	< 10	0.04	< 5	100	60	>50000	28.1	< 10	0.11	0.95	590	5	0.04
H437657	2091364	45	16	2.77	40	180	< 5	10	4.07	>1000	5	10	5200	9.68	< 10	0.12	2.44	12800	< 5	0.05

CERTIFICATION:

*Yhai J Ma*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

Project :

Comments: ATTN:A.O.BIRKELAND

Page Number :1-B  
Total Pages :1  
Certificate Date: 04-MAR-96  
Invoice No. :I9612711  
P.O. Number :  
Account :AN

## CERTIFICATE OF ANALYSIS

### A9612711

SAMPLE	PREP CODE	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
H437653	2091364	5	2800	30	< 10	< 5	5	< 0.01	< 20	< 20	20	< 20	165
H437657	2091364	5	400	>50000	< 10	< 5	60	0.03	< 20	< 20	80	< 20	>50000

CERTIFICATION:

*Yhai D Ma*





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Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
 N.VANCOUVER, BC  
 V7G 1E5

A9612712

Comments: ATTN:A.O. BIRKELAND

**CERTIFICATE** **A9612712**

(AN ) - ARNEX RESOURCES LIMITED

Project:  
 P.O. #:

Samples submitted to our lab in Vancouver, BC.  
 This report was printed on 1-MAR-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	6	Dry, sieve to -80 mesh
202	6	save reject
229	6	ICP - AQ Digestion charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	6	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	6	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	6	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	6	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	6	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	6	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	6	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	6	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	6	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	6	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	6	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	6	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	6	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	6	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	6	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	6	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	6	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	6	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	6	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	6	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	6	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	6	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	6	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	6	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	6	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	6	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	6	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	6	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	6	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	6	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	6	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	6	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	6	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



# Chemex Labs Ltd.

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To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

Project :  
Comments: ATTN:A.O. BIRKELAND

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 01-MAR-96  
Invoice No. : 19612712  
P.O. Number :  
Account : AN

## CERTIFICATE OF ANALYSIS A9612712

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	FA+AA																				
SX96-505	201	202	45	< 0.2	3.17	8	110	< 0.5	< 2	1.02	< 0.5	20	27	63	7.23	10	< 1	0.07	< 10	1.63	975
SX96-506	201	202	25	< 0.2	3.44	10	150	0.5	< 2	0.98	< 0.5	17	17	68	4.98	< 10	< 1	0.10	< 10	1.12	1005
SX96-507	201	202	65	< 0.2	3.50	6	130	< 0.5	< 2	1.04	< 0.5	21	25	69	7.13	10	< 1	0.09	< 10	1.60	1020
SX96-508	201	202	90	< 0.2	2.95	8	310	< 0.5	2	0.99	0.5	21	28	103	6.24	< 10	< 1	0.09	< 10	1.40	1075
SX96-509	201	202	< 5	< 0.2	2.95	6	100	< 0.5	< 2	1.18	< 0.5	17	19	57	4.82	10	< 1	0.09	< 10	1.31	950
SX96-510	201	202	< 5	< 0.2	2.67	6	70	< 0.5	2	1.57	< 0.5	17	28	59	4.91	< 10	< 1	0.08	< 10	1.38	880

CERTIFICATION: Hart Bickler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

Project :  
Comments: ATTN:A.O. BIRKELAND

Page Number :1-B  
Total Pages :1  
Certificate Date: 01-MAR-96  
Invoice No. :19612712  
P.O. Number :  
Account :AN

## CERTIFICATE OF ANALYSIS A9612712

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
SX96-505	201 202	< 1	0.01	13	810	8	< 2	12	40	0.22	< 10	< 10	228	< 10	84
SX96-506	201 202	< 1	< 0.01	9	990	10	< 2	8	48	0.17	< 10	< 10	125	< 10	94
SX96-507	201 202	< 1	0.01	12	820	8	< 2	13	44	0.23	< 10	< 10	211	< 10	92
SX96-508	201 202	< 1	< 0.01	12	700	16	< 2	9	59	0.23	< 10	< 10	179	< 10	218
SX96-509	201 202	< 1	0.01	12	990	6	< 2	9	51	0.19	< 10	< 10	138	< 10	68
SX96-510	201 202	< 1	0.01	17	900	2	< 2	9	43	0.18	< 10	< 10	124	< 10	68

CERTIFICATION:

*Handwritten signature*



# Chemex Labs Ltd.

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To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
 N.VANCOUVER, BC  
 V7G 1E5

A9612489

Comments: ATTN: A. O. BIRKELAND

**CERTIFICATE**

**A9612489**

(AN ) - ARNEX RESOURCES LIMITED

Project: JASPER  
 P.O. #:

Samples submitted to our lab in Vancouver, BC.  
 This report was printed on 28-FEB-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	15	Dry, sieve to -80 mesh
202	15	save reject
229	15	ICP - AQ Digestion charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	15	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	15	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	15	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	15	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	15	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	15	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	15	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	15	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	15	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	15	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	15	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	15	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	15	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	15	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	15	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	15	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	15	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	15	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	15	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	15	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	15	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	15	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	15	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	15	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	15	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	15	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	15	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	15	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	15	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	15	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	15	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	15	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	15	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
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 PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
 N.VANCOUVER, BC  
 V7G 1E5

Project: JASPER  
 Comments: ATTN: A. O. BIRKELAND

Page Number :1-A  
 Total Pages :1  
 Certificate Date: 28-FEB-96  
 Invoice No. :19612489  
 P.O. Number :  
 Account :AN

## CERTIFICATE OF ANALYSIS A9612489

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	FA+AA																				
JXLL96-500	201	202	< 5	< 0.2	1.65	2	230	< 0.5	< 2	1.85	2.0	5	3	69	1.30	< 10	< 1	0.12	< 10	0.23	910
JXLL96-501	201	202	< 5	< 0.2	2.85	4	420	0.5	2	1.17	7.5	22	4	215	2.54	< 10	< 1	0.11	< 10	0.29	1880
JXLL96-600	201	202	20	0.2	3.81	16	60	< 0.5	< 2	0.05	0.5	1	9	137	5.48	< 10	< 1	0.07	< 10	0.26	285
JXLL96-601	201	202	< 5	0.2	4.04	8	90	< 0.5	< 2	0.24	< 0.5	9	8	179	5.28	< 10	< 1	0.06	< 10	0.62	835
JXLL96-602	201	202	30	0.4	2.24	28	80	< 0.5	< 2	0.08	0.5	4	6	255	7.04	< 10	< 1	0.10	< 10	0.16	305
JXLL96-603	201	202	25	0.8	4.17	8	40	< 0.5	< 2	0.10	0.5	10	10	549	6.21	< 10	< 1	0.04	< 10	0.24	395
SX96-503	201	202	< 5	< 0.2	4.32	12	160	< 0.5	2	1.40	< 0.5	26	11	268	7.29	< 10	< 1	0.06	< 10	1.86	1250
SX96-504	201	202	< 5	< 0.2	2.56	4	290	1.0	2	1.10	0.5	173	3	105	3.15	< 10	1	0.15	10	0.48	3550
SX96-604	201	202	20	0.2	5.08	28	150	0.5	< 2	0.11	< 0.5	36	11	269	5.89	< 10	1	0.15	10	1.56	2790
SX96-605	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
SX5650	201	202	< 5	< 0.2	5.02	4	140	1.0	< 2	0.31	9.5	155	< 1	646	2.43	< 10	< 1	0.09	< 10	0.28	>10000
SX5651	201	202	< 5	< 0.2	4.71	2	90	0.5	< 2	0.25	4.0	84	1	432	1.88	< 10	2	0.12	< 10	0.25	5570
SX5652	201	202	< 5	< 0.2	2.70	4	180	< 0.5	2	1.00	< 0.5	18	19	74	4.99	< 10	< 1	0.12	< 10	1.26	935
SX5653	201	202	< 5	< 0.2	3.28	8	320	< 0.5	< 2	0.56	0.5	21	7	152	4.50	< 10	< 1	0.09	< 10	0.50	615
SX5654	201	202	30	< 0.2	3.29	30	330	0.5	2	0.60	1.0	51	7	407	7.80	< 10	2	0.15	< 10	1.48	1900
SX5655	201	202	5	< 0.2	2.95	8	280	< 0.5	4	1.02	< 0.5	27	11	347	4.84	< 10	< 1	0.14	< 10	1.18	1160

CERTIFICATION: *Hart Buchler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED  
 4005 BROCKTON CR.  
 N.VANCOUVER, BC  
 V7G 1E5

Project: JASPER  
 Comments: ATTN: A. O. BIRKELAND

Page Number : 1-B  
 Total Pages : 1  
 Certificate Date: 28-FEB-96  
 Invoice No. : 19612489  
 P.O. Number :  
 Account : AN

## CERTIFICATE OF ANALYSIS

A9612489

SAMPLE	PREP		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
JXLL96-500	201	202	< 1	< 0.01	2	1040	14	< 2	2	40	0.04	< 10	< 10	33	< 10	270
JXLL96-501	201	202	< 1	< 0.01	4	1030	16	< 2	3	44	0.04	< 10	< 10	46	< 10	1545
JXLL96-600	201	202	1	< 0.01	1	830	14	2	3	6	0.02	< 10	< 10	84	< 10	124
JXLL96-601	201	202	< 1	< 0.01	3	1000	6	< 2	9	28	0.08	< 10	< 10	126	< 10	120
JXLL96-602	201	202	6	< 0.01	< 1	1190	16	< 2	2	8	0.01	< 10	< 10	75	< 10	84
JXLL96-603	201	202	1	< 0.01	2	690	22	< 2	6	12	0.04	< 10	< 10	116	< 10	282
SX96-503	201	202	< 1	< 0.01	9	1260	8	< 2	9	119	0.21	< 10	< 10	132	< 10	162
SX96-504	201	202	< 1	0.01	14	1120	8	< 2	4	61	0.06	< 10	< 10	51	< 10	118
SX96-604	201	202	1	< 0.01	4	1400	18	< 2	11	8	0.01	< 10	< 10	121	< 10	122
SX96-605	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
SX5650	201	202	< 1	< 0.01	5	1270	14	< 2	2	18	0.03	< 10	< 10	37	< 10	750
SX5651	201	202	< 1	< 0.01	4	1100	12	< 2	2	14	0.03	< 10	< 10	30	< 10	402
SX5652	201	202	< 1	< 0.01	10	900	10	< 2	9	53	0.17	< 10	< 10	137	< 10	104
SX5653	201	202	1	< 0.01	4	630	6	< 2	5	35	0.05	< 10	< 10	70	< 10	212
SX5654	201	202	< 1	< 0.01	10	1220	6	< 2	11	39	0.04	< 10	< 10	103	< 10	412
SX5655	201	202	< 1	< 0.01	8	960	4	< 2	9	71	0.13	< 10	< 10	106	< 10	90

CERTIFICATION: Hunter Birkeland



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

A9612490

Comments: ATTN: A. O. BIRKELAND

CERTIFICATE

A9612490

(AN ) - ARNEX RESOURCES LIMITED

Project: JASPER  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 1-MAR-96.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	16	Geochem ring to approx 150 mesh
226	16	0-3 Kg crush and split
3202	16	Rock - save entire reject
229	16	ICP - AQ Digestion charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	16	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	16	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	16	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	16	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	16	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	16	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	16	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	16	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	16	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	16	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	16	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	16	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	16	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	16	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	16	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	16	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	16	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	16	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	16	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	16	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	16	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	16	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	16	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	16	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	16	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	16	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	16	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	16	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	16	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	16	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	16	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	16	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	16	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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N.VANCOUVER, BC  
V7G 1E5

Project: JASPER  
Comments: ATTN: A. O. BIRKELAND

Page Number :1-A  
Total Pages :1  
Certificate Date: 01-MAR-96  
Invoice No. :19612490  
P.O. Number :  
Account :AN

## CERTIFICATE OF ANALYSIS A9612490

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
RX140151	205	226	145	1.0	1.09	26	100	< 0.5	< 2	0.03	< 0.5	12	153	790	4.47	< 10	< 1	0.22	< 10	0.50	295
RX140152	205	226	< 5	< 0.2	1.03	12	40	< 0.5	< 2	0.07	< 0.5	28	82	23	6.06	< 10	< 1	0.32	< 10	0.49	210
RX140156	205	226	95	5.0	2.38	62	500	< 0.5	< 2	0.34	< 0.5	8	14	985	5.86	< 10	1	0.40	< 10	0.60	565
RX140157	205	226	< 5	< 0.2	2.44	16	280	< 0.5	2	0.48	< 0.5	7	23	22	4.18	< 10	< 1	0.28	< 10	1.57	1105
RX140158	205	226	< 5	0.6	3.45	8	610	< 0.5	< 2	0.45	0.5	16	4	318	6.68	10	2	0.30	< 10	2.28	2800
RX140159	205	226	15	< 0.2	2.37	20	70	< 0.5	2	0.10	< 0.5	11	15	81	7.14	< 10	< 1	0.42	< 10	1.43	1170
RX140161	205	226	40	< 0.2	1.16	10	20	< 0.5	< 2	0.60	< 0.5	15	117	42	5.34	< 10	< 1	0.40	< 10	0.58	425
RX140162	205	226	20	< 0.2	1.74	2	50	< 0.5	2	0.43	< 0.5	13	113	41	9.42	< 10	< 1	0.14	< 10	0.91	300
RX140163	205	226	15	< 0.2	2.73	54	50	< 0.5	2	0.51	< 0.5	17	43	29	7.38	10	< 1	0.30	< 10	1.94	1730
RX140164	205	226	10	< 0.2	1.30	8	100	< 0.5	< 2	0.01	< 0.5	12	45	23	4.14	< 10	< 1	0.34	< 10	0.59	230
RX140165	205	226	< 5	< 0.2	1.56	6	10	< 0.5	2	0.59	< 0.5	8	91	99	7.82	< 10	< 1	0.05	< 10	1.11	560
RX140166	205	226	< 5	< 0.2	2.26	6	90	< 0.5	2	0.44	< 0.5	11	58	24	5.06	< 10	< 1	0.17	< 10	1.44	680
RX140167	205	226	< 5	< 0.2	2.46	8	220	< 0.5	2	0.84	< 0.5	10	41	93	3.69	< 10	< 1	0.19	< 10	1.49	1120
RX140168	205	226	55	0.8	3.32	36	10	< 0.5	2	0.11	0.5	29	41	417	11.75	10	< 1	0.18	< 10	2.58	2170
RX140170	205	226	885	3.6	1.13	48	30	< 0.5	2	0.03	24.5	9	179	105	4.95	< 10	< 1	0.11	< 10	1.27	740
RX140172	205	226	10	0.4	1.20	206	80	< 0.5	< 2	0.19	< 0.5	10	83	27	3.57	< 10	< 1	0.20	< 10	1.13	705

CERTIFICATION:

*Hunt Birkel*





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

Project: JASPER  
Comments: ATTN: A. O. BIRKELAND

Page Number :1-B  
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Certificate Date:01-MAR-96  
Invoice No. :I9612490  
P.O. Number :  
Account :AN

## CERTIFICATE OF ANALYSIS A9612490

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
RX140151	205	226	11	< 0.01	4	350	1060	< 2	2	3	0.04	< 10	< 10	31	< 10	76
RX140152	205	226	3	< 0.01	12	480	6	< 2	3	5	0.04	< 10	< 10	37	< 10	20
RX140156	205	226	8	< 0.01	1	1030	16	< 2	6	22	0.18	< 10	< 10	43	< 10	60
RX140157	205	226	5	0.02	2	930	14	< 2	5	25	0.20	< 10	< 10	46	< 10	110
RX140158	205	226	1	0.01	3	920	36	< 2	11	35	0.20	< 10	< 10	91	< 10	466
RX140159	205	226	1	< 0.01	4	880	12	< 2	8	6	0.17	< 10	< 10	87	< 10	166
RX140161	205	226	3	< 0.01	4	550	12	< 2	5	14	0.12	< 10	< 10	47	< 10	44
RX140162	205	226	10	< 0.01	6	420	8	< 2	5	159	0.08	< 10	< 10	97	< 10	24
RX140163	205	226	< 1	0.05	5	1170	14	< 2	16	16	0.33	< 10	< 10	187	< 10	152
RX140164	205	226	6	< 0.01	8	460	20	< 2	3	8	< 0.01	< 10	< 10	29	< 10	32
RX140165	205	226	7	0.08	6	770	4	< 2	7	67	0.29	< 10	< 10	104	< 10	56
RX140166	205	226	< 1	0.05	8	910	8	< 2	10	15	0.23	< 10	< 10	97	< 10	56
RX140167	205	226	< 1	0.03	3	960	6	< 2	8	43	0.22	< 10	< 10	63	< 10	78
RX140168	205	226	23	< 0.01	4	470	110	< 2	5	9	0.01	< 10	< 10	80	< 10	372
RX140170	205	226	22	< 0.01	5	150	584	< 2	1	3	0.01	< 10	< 10	23	< 10	3030
RX140172	205	226	11	< 0.01	7	670	12	< 2	5	6	0.06	< 10	< 10	56	< 10	54

CERTIFICATION:

*[Handwritten Signature]*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

A9612491

Comments: ATTN: A. O. BIRKELAND

CERTIFICATE

A9612491

(AN) - ARNEX RESOURCES LIMITED

Project: JASPER  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 29-FEB-96.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
209	2	High grade assay ring
208	1	Assay ring to approx 150 mesh
226	3	0-3 Kg crush and split
3202	3	Rock - save entire reject
233	3	Assay AQ ICP digestion charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	3	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
4001	3	Ag ppm: A30 ICP package	ICP-AES	1	200
4002	3	Al %: A30 ICP package	ICP-AES	0.01	15.00
4003	3	As ppm: A30 ICP package	ICP-AES	10	50000
4004	3	Ba ppm: A30 ICP package	ICP-AES	20	200000
4005	3	Be ppm: A30 ICP package	ICP-AES	5	100
4006	3	Bi ppm: A30 ICP package	ICP-AES	10	50000
4007	3	Ca %: A30 ICP package	ICP-AES	0.01	30.0
4008	3	Cd ppm: A30 ICP package	ICP-AES	5	1000
4009	3	Co ppm: A30 ICP package	ICP-AES	5	50000
4010	3	Cr ppm: A30 ICP package	ICP-AES	10	20000
4011	3	Cu ppm: A30 ICP package	ICP-AES	5	50000
4012	3	Fe %: A30 ICP package	ICP-AES	0.01	30.0
4013	3	Hg ppm: A30 ICP package	ICP-AES	10	10000
4014	3	K %: A30 ICP package	ICP-AES	0.01	20.0
4015	3	Mg %: A30 ICP package	ICP-AES	0.01	30.0
4016	3	Mn ppm: A30 ICP package	ICP-AES	10	50000
4017	3	Mo ppm: A30 ICP package	ICP-AES	5	50000
4018	3	Na %: A30 ICP package	ICP-AES	0.01	20.0
4019	3	Ni ppm: A30 ICP package	ICP-AES	5	50000
4020	3	P ppm: A30 ICP package	ICP-AES	100	10000
4021	3	Pb ppm: A30 ICP package	ICP-AES	5	50000
4022	3	Sb ppm: A30 ICP package	ICP-AES	10	10000
4023	3	Sc ppm: A30 ICP package	ICP-AES	5	10000
4024	3	Sr ppm: A30 ICP package	ICP-AES	5	10000
4025	3	Ti %: A30 ICP package	ICP-AES	0.01	10.00
4026	3	Tl ppm: A30 ICP package	ICP-AES	20	10000
4027	3	U ppm: A30 ICP package	ICP-AES	20	10000
4028	3	V ppm: A30 ICP package	ICP-AES	20	50000
4029	3	W ppm: A30 ICP package	ICP-AES	20	10000
4030	3	Zn ppm: A30 ICP package	ICP-AES	5	50000
301	1	Cu %: Reverse Aqua-Regia digest	AAS	0.01	100.0



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To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

Project: JASPER  
Comments: ATTN: A. O. BIRKELAND

Page Number :1-A  
Total Pages :1  
Certificate Date: 29-FEB-96  
Invoice No. :19612491  
P.O. Number :  
Account :AN

## CERTIFICATE OF ANALYSIS A9612491

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Mg %	Mn ppm	Mo ppm	Na %
RX140160	209 226	30	3	2.04	< 10	60	< 5	10	0.24	< 5	50	100	17590	>30.0	< 10	0.24	1.01	750	< 5	0.03
RX140169	208 226	35	32	1.50	10	520	< 5	10	0.15	< 5	5	170	10220	5.36	< 10	0.84	0.20	360	175	0.02
RX140171	209 226	50	9	5.43	< 10	140	< 5	20	0.12	< 5	55	90	22500	13.90	< 10	0.42	3.46	2130	5	0.01

CERTIFICATION: Hart Buchler



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Project : JASPER  
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## CERTIFICATE OF ANALYSIS A9612491

SAMPLE	PREP		Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Cu
	CODE		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
RX140160	209	226	5	800	5	< 10	< 5	40	0.07	< 20	< 20	60	< 20	315	-----
RX140169	208	226	5	400	365	< 10	< 5	20	0.01	< 20	< 20	20	< 20	70	-----
RX140171	209	226	15	1000	35	< 10	5	10	0.01	< 20	< 20	80	< 20	190	2.15

CERTIFICATION:

*[Handwritten signature]*



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Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

A9613347

Comments: ATTN: ARNE O. BIRKELAND

CERTIFICATE

A9613347

(AN ) - ARNEX RESOURCES LIMITED

Project: JASPER 96  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 12-MAR-96.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	33	Dry, sieve to -80 mesh
202	33	save reject
229	33	ICP - AQ Digestion charge
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	33	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	33	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	33	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	33	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	33	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	33	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	33	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	33	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	33	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	33	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	33	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	33	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	33	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	33	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	33	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	33	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	33	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	33	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	33	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	33	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	33	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	33	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	33	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	33	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	33	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	33	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	33	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	33	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	33	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	33	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	33	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	33	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	33	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
 N. VANCOUVER, BC  
 V7G 1E5

Project: JASPER 96  
 Comments: ATTN: ARNE O. BIRKELAND

Page Number :1-A  
 Total Pages :1  
 Certificate Date: 12-MAR-96  
 Invoice No. :19613347  
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## CERTIFICATE OF ANALYSIS A9613347

SAMPLE	PREP		Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	CODE		FA+AA	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
SX96511	201	202	10	0.8	4.09	12	500	< 0.5	4	1.39	10.0	19	11	199	4.34	< 10	< 1	0.14	< 10	0.79	4560
SX96605	201	202	2	< 0.2	2.75	8	30	< 0.5	2	0.11	< 0.5	7	21	27	6.59	10	< 1	0.03	< 10	0.28	175
SX96606	201	202	10	< 0.2	6.60	6	30	< 0.5	6	0.11	< 0.5	9	38	80	7.85	< 10	< 1	0.04	< 10	0.66	375
SX96607	201	202	< 5	< 0.2	1.57	< 2	10	< 0.5	2	0.17	< 0.5	4	13	8	2.93	< 10	< 1	0.03	< 10	0.38	150
SX96608	201	202	< 5	0.4	4.20	8	140	0.5	< 2	0.23	0.5	8	11	27	3.14	< 10	< 1	0.08	< 10	0.53	685
SX96609	201	202	20	< 0.2	3.84	6	60	0.5	< 2	0.11	< 0.5	10	16	25	6.96	10	< 1	0.03	< 10	0.38	510
SX96610	201	202	< 5	< 0.2	3.20	< 2	40	< 0.5	4	0.08	0.5	10	20	29	6.42	< 10	< 1	0.05	< 10	0.53	335
SX96611	201	202	15	< 0.2	3.13	2	100	< 0.5	< 2	0.09	< 0.5	9	12	24	4.74	10	< 1	0.10	< 10	0.46	570
SX96612	201	202	10	0.6	3.87	< 2	50	< 0.5	< 2	0.10	< 0.5	8	19	28	5.29	< 10	< 1	0.04	< 10	0.39	305
SX96613	201	202	< 5	< 0.2	3.41	2	60	< 0.5	2	0.08	< 0.5	5	9	12	3.62	< 10	< 1	0.07	< 10	0.80	295
SX96614	201	202	15	< 0.2	5.59	< 2	30	< 0.5	2	0.10	< 0.5	8	24	19	7.84	10	< 1	0.03	< 10	0.39	290
SX96615	201	202	< 5	< 0.2	5.15	4	60	0.5	6	0.45	< 0.5	13	22	125	6.12	< 10	< 1	0.09	< 10	1.14	825
SX96616	201	202	< 5	0.2	3.13	2	60	< 0.5	2	0.16	0.5	5	11	93	3.78	< 10	< 1	0.09	< 10	0.42	285
SX96617	201	202	10	0.6	5.84	< 2	180	< 0.5	2	0.23	0.5	5	4	59	5.40	10	< 1	0.07	< 10	0.52	755
SX96618	201	202	< 5	0.4	3.84	4	160	< 0.5	2	0.30	< 0.5	6	7	25	4.48	< 10	< 1	0.05	< 10	0.79	625
SX96619	201	202	< 5	0.6	3.41	8	80	< 0.5	< 2	0.22	< 0.5	3	6	42	4.68	10	< 1	0.11	< 10	0.35	390
SX96620	201	202	20	< 0.2	4.43	6	40	< 0.5	2	0.13	< 0.5	5	17	58	6.85	10	< 1	0.03	< 10	0.39	205
SX96621	201	202	< 5	0.2	5.58	8	70	< 0.5	2	0.10	< 0.5	3	6	139	6.80	10	< 1	0.04	< 10	0.35	295
SX96622	201	202	< 5	< 0.2	3.17	< 2	70	< 0.5	< 2	0.15	0.5	4	13	33	5.76	10	< 1	0.03	< 10	0.28	175
SX96623	201	202	< 5	< 0.2	6.13	10	80	< 0.5	< 2	0.16	< 0.5	8	12	133	5.62	< 10	< 1	0.03	< 10	0.56	385
SX96624	201	202	< 5	< 0.2	5.33	16	150	0.5	< 2	0.36	1.0	10	17	145	5.26	< 10	< 1	0.06	< 10	0.59	580
SX96625	201	202	< 5	< 0.2	4.65	< 2	120	< 0.5	< 2	0.14	< 0.5	7	6	97	5.52	< 10	< 1	0.05	< 10	1.02	690
SX96626	201	202	< 5	< 0.2	4.93	10	40	< 0.5	4	0.15	< 0.5	6	14	49	6.75	10	< 1	0.03	< 10	0.53	475
SX96627	201	202	< 5	0.2	5.82	6	60	< 0.5	2	0.16	< 0.5	8	10	81	6.03	10	< 1	0.03	< 10	0.41	330
SX96628	201	202	< 5	< 0.2	4.85	6	60	< 0.5	< 2	0.16	< 0.5	3	10	63	7.39	10	< 1	0.04	< 10	0.54	300
SX96629	201	202	70	0.8	2.53	14	200	< 0.5	2	0.26	2.5	9	7	576	6.92	< 10	< 1	0.20	< 10	1.35	1200
SX96630	201	202	< 5	< 0.2	8.12	8	40	< 0.5	< 2	0.08	< 0.5	2	10	7	3.70	10	< 1	0.03	< 10	0.12	105
SX96631	201	202	< 5	< 0.2	4.22	2	40	< 0.5	< 2	0.14	< 0.5	5	20	15	6.44	10	< 1	0.04	< 10	0.37	200
SX96632	201	202	< 5	< 0.2	3.51	< 2	30	< 0.5	2	0.15	< 0.5	7	22	17	7.35	10	< 1	0.03	< 10	0.69	275
SX96633	201	202	< 5	< 0.2	1.40	2	10	< 0.5	2	0.06	< 0.5	4	16	4	4.33	< 10	< 1	0.03	< 10	0.26	150
SX96634	201	202	< 5	0.6	5.24	2	50	0.5	2	0.16	< 0.5	50	17	38	7.41	10	< 1	0.06	< 10	0.68	4310
SX96635	201	202	< 5	0.6	5.48	8	80	0.5	2	0.12	0.5	31	10	224	3.30	< 10	< 1	0.04	10	0.36	1575
SX96636	201	202	< 5	0.2	6.42	< 2	200	0.5	2	0.22	1.5	11	13	128	5.97	< 10	< 1	0.05	< 10	0.77	830

CERTIFICATION:

*Arne O. Birkeland*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

Project : JASPER 96  
Comments: ATTN: ARNE O. BIRKELAND

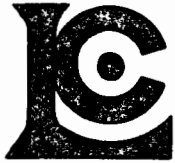
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Total Pages : 1  
Certificate Date: 12-MAR-96  
Invoice No. : I9613347  
P.O. Number :  
Account : AN

## CERTIFICATE OF ANALYSIS

### A9613347

SAMPLE	PREP		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
SX96511	201	202	3	0.01	5	920	14	< 2	5	44	0.07	< 10	< 10	105	< 10	876
SX96605	201	202	5	< 0.01	1	440	8	< 2	4	13	0.15	< 10	< 10	227	< 10	34
SX96606	201	202	1	< 0.01	5	800	18	< 2	10	13	0.15	< 10	< 10	185	< 10	76
SX96607	201	202	< 1	< 0.01	2	490	2	< 2	6	26	0.15	< 10	< 10	152	< 10	20
SX96608	201	202	7	< 0.01	5	860	10	< 2	3	14	0.07	< 10	< 10	80	< 10	80
SX96609	201	202	2	< 0.01	5	420	6	< 2	8	12	0.18	< 10	< 10	196	< 10	66
SX96610	201	202	< 1	< 0.01	4	460	8	< 2	8	11	0.20	< 10	< 10	196	< 10	42
SX96611	201	202	< 1	0.01	5	600	24	< 2	6	8	0.04	< 10	< 10	145	< 10	42
SX96612	201	202	2	< 0.01	5	470	8	< 2	5	12	0.08	< 10	< 10	175	< 10	36
SX96613	201	202	< 1	0.01	3	460	8	< 2	4	9	0.05	< 10	< 10	91	< 10	36
SX96614	201	202	1	< 0.01	4	640	10	< 2	8	14	0.17	< 10	< 10	204	< 10	48
SX96615	201	202	3	< 0.01	7	850	16	< 2	9	25	0.18	< 10	< 10	166	< 10	100
SX96616	201	202	1	< 0.01	3	950	24	< 2	3	13	0.07	< 10	< 10	116	< 10	64
SX96617	201	202	2	< 0.01	< 1	720	12	< 2	6	20	0.02	< 10	< 10	100	< 10	82
SX96618	201	202	3	< 0.01	3	700	10	< 2	6	38	0.04	< 10	< 10	133	< 10	100
SX96619	201	202	< 1	< 0.01	< 1	860	14	< 2	5	26	0.12	< 10	< 10	135	< 10	46
SX96620	201	202	3	< 0.01	3	480	14	< 2	5	13	0.15	< 10	< 10	187	< 10	56
SX96621	201	202	3	< 0.01	< 1	650	34	< 2	5	13	0.09	< 10	< 10	100	< 10	250
SX96622	201	202	2	< 0.01	2	360	14	< 2	4	15	0.12	< 10	< 10	180	< 10	48
SX96623	201	202	5	< 0.01	4	470	6	< 2	7	14	0.14	< 10	< 10	179	< 10	230
SX96624	201	202	4	< 0.01	4	850	22	< 2	7	22	0.15	< 10	< 10	143	< 10	440
SX96625	201	202	1	< 0.01	2	610	18	< 2	6	14	0.03	< 10	< 10	120	< 10	108
SX96626	201	202	3	< 0.01	2	810	12	< 2	7	16	0.08	< 10	< 10	163	< 10	92
SX96627	201	202	3	< 0.01	1	820	18	< 2	7	14	0.05	< 10	< 10	134	< 10	110
SX96628	201	202	3	< 0.01	< 1	880	36	< 2	6	13	0.04	< 10	< 10	143	< 10	62
SX96629	201	202	6	< 0.01	2	1260	142	< 2	5	19	0.10	< 10	< 10	72	< 10	382
SX96630	201	202	< 1	0.01	1	450	8	< 2	4	5	0.07	< 10	< 10	67	< 10	36
SX96631	201	202	1	< 0.01	4	370	12	< 2	6	14	0.13	< 10	< 10	217	< 10	36
SX96632	201	202	< 1	< 0.01	4	460	10	< 2	7	18	0.21	< 10	< 10	260	< 10	40
SX96633	201	202	< 1	0.01	1	210	6	< 2	6	6	0.12	< 10	< 10	200	< 10	18
SX96634	201	202	1	< 0.01	3	1230	16	< 2	8	8	0.12	< 10	< 10	225	< 10	90
SX96635	201	202	6	< 0.01	3	1410	42	< 2	3	9	0.05	< 10	< 10	67	< 10	156
SX96636	201	202	6	< 0.01	3	770	18	< 2	6	14	0.12	< 10	< 10	137	< 10	368

CERTIFICATION: \_\_\_\_\_



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

A9614982

Comments: ATTN:A.O.BIRKELAND

**CERTIFICATE**

**A9614982**

(AN ) - ARNEX RESOURCES LIMITED

Project:  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 1-APR-96.

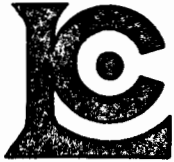
## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
301	1	Cu %: Reverse Aqua-Regia digest	AAS	0.01	100.0
312	1	Pb %: Reverse Aqua-Regia digest	AAS	0.01	100.0
316	1	Zn %: Reverse Aqua-Regia digest	AAS	0.01	100.0
320	1	Cd %: HClO4-HNO3 digestion	AAS	0.001	100.00





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To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

Project :

Comments: ATTN:A.O.BIRKELAND

Page Number :1  
Total Pages :1  
Certificate Date: 01-APR-96  
Invoice No. :19614982  
P.O. Number :  
Account :AN

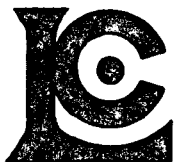
## CERTIFICATE OF ANALYSIS

A9614982

SAMPLE	PREP CODE	Cu %	Pb %	Zn %	Cd %						
H437653 H437657	244 -- 244 --	8.90 -----	----- 12.60	----- 10.20	----- 0.121						

CERTIFICATION:

*Sard / Leina*



# Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

A9617828

Comments: ATTN:ARNE O. BIRKELAND

**CERTIFICATE** **A9617828**

(AN) - ARNEX RESOURCES LIMITED

Project: JAS  
P.O. #:

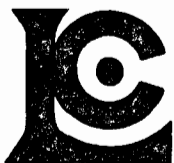
Samples submitted to our lab in Vancouver, BC.  
This report was printed on 16-MAY-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
202	28	save reject
201	28	Dry, sieve to -80 mesh
229	28	ICP - AQ Digestion charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	28	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	28	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	28	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	28	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	28	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	28	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	28	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	28	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	28	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	28	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	28	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	28	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	28	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	28	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	28	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	28	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	28	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	28	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	28	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	28	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	28	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	28	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	28	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	28	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	28	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	28	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	28	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	28	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	28	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	28	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	28	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	28	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	28	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
N.VANCOUVER, BC  
V7G 1E5

Project: JAS  
Comments: ATTN: ARNE O. BIRKELAND

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 16-MAY-96  
Invoice No. : 19617828  
P.O. Number :  
Account : AN

## CERTIFICATE OF ANALYSIS A9617828

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	FA+AA																				
SX96637	202	201	< 5	< 0.2	6.77	14	30	< 0.5	< 2	0.08	0.5	4	19	49	8.45	10	< 1	0.01	< 10	0.29	205
SX96638	202	201	< 5	0.2	4.55	10	50	< 0.5	< 2	0.15	< 0.5	7	15	62	5.88	10	< 1	0.03	< 10	0.45	595
SX96639	202	201	10	0.2	3.76	10	60	< 0.5	< 2	0.19	< 0.5	6	13	30	6.64	10	< 1	0.04	< 10	0.38	600
SX96640	202	201	< 5	0.2	4.37	8	40	< 0.5	< 2	0.17	< 0.5	9	19	75	7.10	10	< 1	0.04	< 10	0.51	545
SX96641	202	201	< 5	< 0.2	3.46	2	30	< 0.5	< 2	0.31	< 0.5	6	9	52	6.26	10	< 1	0.02	< 10	0.35	380
SX96642	202	201	< 5	0.2	4.65	< 2	40	< 0.5	< 2	0.11	< 0.5	4	10	64	7.91	10	1	0.04	< 10	0.37	450
SX96643	202	201	< 5	< 0.2	2.18	2	30	< 0.5	< 2	0.11	< 0.5	4	13	14	4.43	10	< 1	0.04	< 10	0.35	175
SX96644	202	201	< 5	< 0.2	3.70	6	40	< 0.5	< 2	0.11	< 0.5	5	16	15	4.09	10	< 1	0.04	< 10	0.48	205
SX96645	202	201	< 5	< 0.2	3.82	8	40	< 0.5	< 2	0.13	< 0.5	8	19	29	5.53	10	< 1	0.04	< 10	0.53	325
SX96646	202	201	< 5	< 0.2	3.50	2	40	< 0.5	< 2	0.10	< 0.5	5	17	17	5.61	10	< 1	0.04	< 10	0.35	550
SX96647	202	201	< 5	< 0.2	5.13	12	60	0.5	< 2	0.10	0.5	9	21	42	6.37	10	< 1	0.04	< 10	0.53	250
SX96648	202	201	< 5	< 0.2	5.33	8	40	< 0.5	< 2	0.08	< 0.5	6	23	31	6.93	10	< 1	0.03	< 10	0.57	265
SX96649	202	201	< 5	< 0.2	4.29	12	100	< 0.5	< 2	0.90	< 0.5	13	13	56	4.13	10	< 1	0.11	10	1.22	1095
SX96650	202	201	< 5	0.2	3.44	12	30	< 0.5	< 2	0.06	< 0.5	5	52	93	9.25	20	< 1	0.02	< 10	0.43	320
SX96651	202	201	< 5	< 0.2	1.22	2	20	< 0.5	< 2	0.15	< 0.5	3	10	11	3.73	10	< 1	0.03	< 10	0.08	100
SX96652	202	201	< 5	0.2	5.13	10	40	< 0.5	< 2	0.12	< 0.5	5	15	57	6.60	10	< 1	0.03	< 10	0.46	320
SX96653	202	201	< 5	0.4	5.42	8	90	< 0.5	< 2	0.26	1.5	29	12	46	5.24	10	< 1	0.04	< 10	0.34	945
SX96654	202	201	< 5	< 0.2	2.67	10	50	< 0.5	< 2	0.17	0.5	3	8	18	4.55	10	1	0.04	< 10	0.24	170
SX96655	202	201	< 5	0.2	7.68	8	40	< 0.5	< 2	0.12	< 0.5	10	27	53	5.87	10	< 1	0.04	< 10	0.84	465
SX96656	202	201	< 5	< 0.2	3.28	4	120	< 0.5	< 2	0.39	0.5	29	36	153	5.62	10	< 1	0.08	< 10	1.55	4590
SX96657	202	201	< 5	< 0.2	1.39	2	30	< 0.5	< 2	0.10	< 0.5	3	13	9	4.92	10	< 1	0.03	< 10	0.31	170
SX96658	202	201	< 5	< 0.2	3.57	4	20	< 0.5	< 2	0.07	< 0.5	5	17	17	6.96	10	< 1	0.03	< 10	0.32	350
SX96659	202	201	< 5	< 0.2	3.81	6	70	< 0.5	< 2	0.33	< 0.5	14	24	30	6.27	10	< 1	0.06	< 10	1.21	1380
SX96660	202	201	< 5	< 0.2	3.96	< 2	40	< 0.5	< 2	0.12	< 0.5	11	27	78	7.80	20	< 1	0.05	< 10	0.73	595
SX96661	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
SX96662	202	201	< 5	< 0.2	2.78	< 2	30	< 0.5	< 2	0.19	< 0.5	8	36	11	5.97	10	< 1	0.03	< 10	0.76	350
SX96663	202	201	< 5	< 0.2	1.57	< 2	10	< 0.5	< 2	0.08	< 0.5	3	43	5	6.18	10	1	0.01	< 10	0.14	110
SX96664	202	201	< 5	< 0.2	6.67	< 2	40	0.5	< 2	0.07	< 0.5	28	14	32	4.40	10	< 1	0.03	< 10	0.28	2620
SX96665	202	201	< 5	< 0.2	1.50	< 2	60	< 0.5	< 2	0.07	< 0.5	< 1	< 1	13	3.04	< 10	< 1	0.06	< 10	0.10	325

CERTIFICATION: *Jhai D Ma*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
 N.VANCOUVER, BC  
 V7G 1E5

Project : JAS  
 Comments: ATTN: ARNE O. BIRKELAND

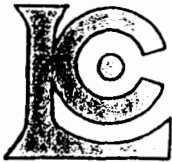
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 Invoice No. : 19617828  
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 Account : AN

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9617828</b>
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SAMPLE	PREP		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
SX96637	202	201	< 1	< 0.01	1	1100	10	< 2	7	9	0.13	< 10	< 10	161	< 10	76
SX96638	202	201	< 1	< 0.01	3	1500	14	< 2	5	16	0.11	< 10	< 10	145	< 10	82
SX96639	202	201	< 1	< 0.01	2	530	14	< 2	5	20	0.14	< 10	< 10	185	< 10	58
SX96640	202	201	< 1	< 0.01	4	710	12	2	6	21	0.17	< 10	< 10	185	< 10	94
SX96641	202	201	< 1	< 0.01	2	550	10	2	6	31	0.21	< 10	< 10	208	< 10	50
SX96642	202	201	< 1	< 0.01	2	1090	12	4	9	12	0.15	< 10	< 10	173	< 10	70
SX96643	202	201	1	< 0.01	3	560	6	2	3	12	0.09	< 10	< 10	128	< 10	30
SX96644	202	201	1	< 0.01	5	340	14	4	4	12	0.08	< 10	< 10	127	< 10	48
SX96645	202	201	< 1	< 0.01	8	680	8	< 2	5	14	0.11	< 10	< 10	148	< 10	50
SX96646	202	201	1	< 0.01	4	550	10	< 2	4	10	0.08	< 10	< 10	149	< 10	46
SX96647	202	201	7	< 0.01	6	750	10	< 2	7	10	0.13	< 10	< 10	151	< 10	70
SX96648	202	201	< 1	< 0.01	5	390	8	2	5	9	0.14	< 10	< 10	181	< 10	64
SX96649	202	201	2	0.01	6	700	18	4	7	41	0.12	< 10	< 10	103	< 10	96
SX96650	202	201	< 1	< 0.01	3	370	14	2	6	8	0.14	< 10	< 10	302	< 10	118
SX96651	202	201	< 1	< 0.01	1	380	6	2	3	12	0.10	< 10	< 10	176	< 10	20
SX96652	202	201	7	< 0.01	4	1120	42	< 2	6	16	0.10	< 10	< 10	135	< 10	106
SX96653	202	201	4	< 0.01	4	1000	22	4	4	21	0.14	< 10	< 10	117	< 10	196
SX96654	202	201	3	< 0.01	1	440	18	2	4	15	0.09	< 10	< 10	122	< 10	46
SX96655	202	201	< 1	< 0.01	6	920	6	6	12	12	0.25	< 10	< 10	148	< 10	84
SX96656	202	201	< 1	< 0.01	7	820	8	< 2	8	21	0.20	< 10	< 10	204	< 10	80
SX96657	202	201	< 1	< 0.01	2	370	6	2	5	7	0.18	< 10	< 10	229	< 10	26
SX96658	202	201	< 1	< 0.01	4	570	10	< 2	4	8	0.11	< 10	< 10	162	< 10	46
SX96659	202	201	< 1	< 0.01	11	900	10	2	7	21	0.19	< 10	< 10	180	< 10	88
SX96660	202	201	< 1	< 0.01	6	690	42	6	8	13	0.15	< 10	< 10	255	< 10	74
SX96661	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
SX96662	202	201	< 1	< 0.01	5	620	10	2	9	16	0.21	< 10	< 10	228	< 10	44
SX96663	202	201	< 1	< 0.01	1	250	4	2	4	14	0.27	< 10	< 10	254	< 10	24
SX96664	202	201	< 1	< 0.01	4	1240	10	2	4	8	0.06	< 10	< 10	97	< 10	70
SX96665	202	201	< 1	< 0.01	< 1	470	4	< 2	1	5	0.01	< 10	< 10	31	< 10	16

CERTIFICATION:

*Yhai D Ma*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
 N.VANCOUVER, BC  
 V7G 1E5

Project: JAS  
 Comments: ATTN:ARNE O. BIRKELAND

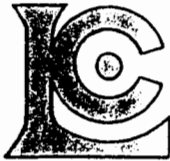
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 Certificate Date: 16-MAY-96  
 Invoice No. : I9617828  
 P.O. Number :  
 Account : AN

## CERTIFICATE OF ANALYSIS A9617828

SAMPLE	PREP CODE		Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	FA+AA		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
SX96637	202	201	< 5	< 0.2	6.77	14	30	< 0.5	< 2	0.08	0.5	4	19	49	8.45	10	< 1	0.01	< 10	0.29	205
SX96638	202	201	< 5	0.2	4.55	10	50	< 0.5	< 2	0.15	< 0.5	7	15	62	5.88	10	< 1	0.03	< 10	0.45	595
SX96639	202	201	10	0.2	3.76	10	60	< 0.5	< 2	0.19	< 0.5	6	13	30	6.64	10	< 1	0.04	< 10	0.38	600
SX96640	202	201	< 5	0.2	4.37	8	40	< 0.5	< 2	0.17	< 0.5	9	19	75	7.10	10	< 1	0.04	< 10	0.51	545
SX96641	202	201	< 5	< 0.2	3.46	2	30	< 0.5	< 2	0.31	< 0.5	6	9	52	6.26	10	< 1	0.02	< 10	0.35	380
SX96642	202	201	< 5	0.2	4.65	< 2	40	< 0.5	< 2	0.11	< 0.5	4	10	64	7.91	10	< 1	0.04	< 10	0.37	450
SX96643	202	201	< 5	< 0.2	2.18	2	30	< 0.5	< 2	0.11	< 0.5	4	13	14	4.43	10	< 1	0.04	< 10	0.35	175
SX96644	202	201	< 5	< 0.2	3.70	6	40	< 0.5	< 2	0.11	< 0.5	5	16	15	4.09	10	< 1	0.04	< 10	0.48	205
SX96645	202	201	< 5	< 0.2	3.82	8	40	< 0.5	< 2	0.13	< 0.5	8	19	29	5.53	10	< 1	0.04	< 10	0.53	325
SX96646	202	201	< 5	< 0.2	3.50	2	40	< 0.5	< 2	0.10	< 0.5	5	17	17	5.61	10	< 1	0.04	< 10	0.35	550
SX96647	202	201	< 5	< 0.2	5.13	12	60	0.5	< 2	0.10	0.5	9	21	42	6.37	10	< 1	0.04	< 10	0.53	250
SX96648	202	201	< 5	< 0.2	5.33	8	40	< 0.5	< 2	0.08	< 0.5	6	23	31	6.93	10	< 1	0.03	< 10	0.57	265
SX96649	202	201	< 5	< 0.2	4.29	12	100	< 0.5	< 2	0.90	< 0.5	13	13	56	4.13	10	< 1	0.11	10	1.22	1095
SX96650	202	201	< 5	0.2	3.44	12	30	< 0.5	< 2	0.06	< 0.5	5	52	93	9.25	20	< 1	0.02	< 10	0.43	320
SX96651	202	201	< 5	< 0.2	1.22	2	20	< 0.5	< 2	0.15	< 0.5	3	10	11	3.73	10	< 1	0.03	< 10	0.08	100
SX96652	202	201	< 5	0.2	5.13	10	40	< 0.5	< 2	0.12	< 0.5	5	15	57	6.60	10	< 1	0.03	< 10	0.46	320
SX96653	202	201	< 5	0.4	5.42	8	90	< 0.5	< 2	0.26	1.5	29	12	46	5.24	10	< 1	0.04	< 10	0.34	945
SX96654	202	201	< 5	< 0.2	2.67	10	50	< 0.5	< 2	0.17	0.5	3	8	18	4.55	10	< 1	0.04	< 10	0.24	170
SX96655	202	201	< 5	0.2	7.68	8	40	< 0.5	< 2	0.12	< 0.5	10	27	53	5.87	10	< 1	0.04	< 10	0.84	465
SX96656	202	201	< 5	< 0.2	3.28	4	120	< 0.5	< 2	0.39	0.5	29	36	153	5.62	10	< 1	0.08	< 10	1.55	4590
SX96657	202	201	< 5	< 0.2	1.39	2	30	< 0.5	< 2	0.10	< 0.5	3	13	9	4.92	10	< 1	0.03	< 10	0.31	170
SX96658	202	201	< 5	< 0.2	3.57	4	20	< 0.5	< 2	0.07	< 0.5	5	17	17	6.96	10	< 1	0.03	< 10	0.32	350
SX96659	202	201	< 5	< 0.2	3.81	6	70	< 0.5	< 2	0.33	< 0.5	14	24	30	6.27	10	< 1	0.06	< 10	1.21	1380
SX96660	202	201	< 5	< 0.2	3.96	< 2	40	< 0.5	< 2	0.12	< 0.5	11	27	78	7.80	20	< 1	0.05	< 10	0.73	595
SX96661	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
SX96662	202	201	< 5	< 0.2	2.78	< 2	30	< 0.5	< 2	0.19	< 0.5	8	36	11	5.97	10	< 1	0.03	< 10	0.76	350
SX96663	202	201	< 5	< 0.2	1.57	< 2	10	< 0.5	< 2	0.08	< 0.5	3	43	5	6.18	10	< 1	0.01	< 10	0.14	110
SX96664	202	201	< 5	< 0.2	6.67	< 2	40	0.5	< 2	0.07	< 0.5	28	14	32	4.40	10	< 1	0.03	< 10	0.28	2620
SX96665	202	201	< 5	< 0.2	1.50	< 2	60	< 0.5	< 2	0.07	< 0.5	< 1	< 1	13	3.04	< 10	< 1	0.06	< 10	0.10	325

CERTIFICATION: \_\_\_\_\_

*Yhai D Ma*



# Chemex Labs Ltd.

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To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
 N.VANCOUVER, BC  
 V7G 1E5

Project: JAS  
 Comments: ATTN:ARNE O. BIRKELAND

Page Number :1-B  
 Total Pages :1  
 Certificate Date: 16-MAY-96  
 Invoice No. :19617828  
 P.O. Number :  
 Account :AN

## CERTIFICATE OF ANALYSIS

A9617828

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
SX96637	202 201	< 1 < 0.01		1	1100	10	< 2	7	9	0.13	< 10	< 10	161	< 10	76
SX96638	202 201	< 1 < 0.01		3	1500	14	< 2	5	16	0.11	< 10	< 10	145	< 10	82
SX96639	202 201	< 1 < 0.01		2	530	14	< 2	5	20	0.14	< 10	< 10	185	< 10	58
SX96640	202 201	< 1 < 0.01		4	710	12	2	6	21	0.17	< 10	< 10	185	< 10	94
SX96641	202 201	< 1 < 0.01		2	550	10	2	6	31	0.21	< 10	< 10	208	< 10	50
SX96642	202 201	< 1 < 0.01		2	1090	12	4	9	12	0.15	< 10	< 10	173	< 10	70
SX96643	202 201	1 < 0.01		3	560	6	2	3	12	0.09	< 10	< 10	128	< 10	30
SX96644	202 201	1 < 0.01		5	340	14	4	4	12	0.08	< 10	< 10	127	< 10	48
SX96645	202 201	< 1 < 0.01		8	680	8	< 2	5	14	0.11	< 10	< 10	148	< 10	50
SX96646	202 201	1 < 0.01		4	550	10	< 2	4	10	0.08	< 10	< 10	149	< 10	46
SX96647	202 201	7 < 0.01		6	750	10	< 2	7	10	0.13	< 10	< 10	151	< 10	70
SX96648	202 201	< 1 < 0.01		5	390	8	2	5	9	0.14	< 10	< 10	181	< 10	64
SX96649	202 201	2 < 0.01		6	700	18	4	7	41	0.12	< 10	< 10	103	< 10	96
SX96650	202 201	< 1 < 0.01		3	370	14	2	6	8	0.14	< 10	< 10	302	< 10	118
SX96651	202 201	< 1 < 0.01		1	380	6	2	3	12	0.10	< 10	< 10	176	< 10	20
SX96652	202 201	7 < 0.01		4	1120	42	< 2	6	16	0.10	< 10	< 10	135	< 10	106
SX96653	202 201	4 < 0.01		4	1000	22	4	4	21	0.14	< 10	< 10	117	< 10	196
SX96654	202 201	3 < 0.01		1	440	18	2	4	15	0.09	< 10	< 10	122	< 10	46
SX96655	202 201	< 1 < 0.01		6	920	6	6	12	12	0.25	< 10	< 10	148	< 10	84
SX96656	202 201	< 1 < 0.01		7	820	8	< 2	8	21	0.20	< 10	< 10	204	< 10	80
SX96657	202 201	< 1 < 0.01		2	370	6	2	5	7	0.18	< 10	< 10	229	< 10	26
SX96658	202 201	< 1 < 0.01		4	570	10	< 2	4	8	0.11	< 10	< 10	162	< 10	46
SX96659	202 201	< 1 < 0.01		11	900	10	2	7	21	0.19	< 10	< 10	180	< 10	88
SX96660	202 201	< 1 < 0.01		6	690	42	6	8	13	0.15	< 10	< 10	255	< 10	74
SX96661	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
SX96662	202 201	< 1 < 0.01		5	620	10	2	9	16	0.21	< 10	< 10	228	< 10	44
SX96663	202 201	< 1 < 0.01		1	250	4	2	4	14	0.27	< 10	< 10	254	< 10	24
SX96664	202 201	< 1 < 0.01		4	1240	10	2	4	8	0.06	< 10	< 10	97	< 10	70
SX96665	202 201	< 1 < 0.01	< 1	470		4	< 2	1	5	0.01	< 10	< 10	31	< 10	16

CERTIFICATION: *Phai D Ma*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
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 PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
 N.VANCOUVER, BC  
 V7G 1E5

A9617829

Comments: ATTN: ARNE O. BIRKELAND

CERTIFICATE

A9617829

(AN) - ARNEX RESOURCES LIMITED

Project: JAS  
 P.O. #:

Samples submitted to our lab in Vancouver, BC.  
 This report was printed on 16-MAY-96.

## SAMPLE PREPARATION

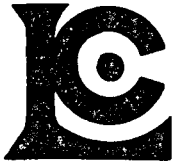
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	4	Geochem ring to approx 150 mesh
226	4	0-3 Kg crush and split
3202	4	Rock - save entire reject
229	4	ICP - AQ Digestion charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	4	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	4	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	4	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	4	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	4	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	4	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	4	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	4	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	4	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	4	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	4	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	4	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	4	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	4	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	4	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	4	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	4	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	4	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	4	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	4	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	4	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	4	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	4	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	4	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	4	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	4	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	4	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	4	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	4	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	4	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	4	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	4	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	4	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR.  
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V7G 1E5

Project: JAS  
Comments: ATTN: ARNE O. BIRKELAND

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 16-MAY-96  
Invoice No. : 19617829  
P.O. Number :  
Account : AN

## CERTIFICATE OF ANALYSIS A9617829

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
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H437659	205 226	< 5	0.8	2.82	12	90	< 0.5	< 2	0.19	< 0.5	6	21	17	4.59	10	< 1	0.17	< 10	2.04	790
H437660	205 226	< 5	0.4	2.06	24	210	< 0.5	< 2	0.18	< 0.5	4	33	7	2.86	< 10	< 1	0.18	10	1.59	1475
H437661	205 226	< 5	1.0	1.54	52	280	< 0.5	< 2	0.06	0.5	3	29	34	3.09	< 10	< 1	0.17	< 10	1.12	975

CERTIFICATION: *Yhai J Ma*





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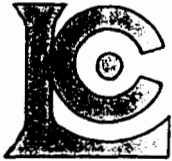
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## CERTIFICATE OF ANALYSIS

### A9617829

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
H437658	205	226	1	0.03	4	1130	12	< 2	1	40	0.12	< 10	< 10	28	< 10	90
H437659	205	226	3	0.02	3	1250	20	< 2	7	5	0.01	< 10	< 10	62	< 10	94
H437660	205	226	1	0.03	2	630	8	< 2	3	7	0.02	< 10	< 10	22	< 10	108
H437661	205	226	5	< 0.01	1	250	46	< 2	3	6	0.11	< 10	< 10	21	< 10	100

CERTIFICATION:



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Page Number :1-A  
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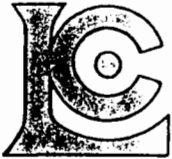
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### A9617829

SAMPLE	PREP		Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	CODE		FA+AA	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
H437658	205	226	< 5	0.4	1.56	12	80	< 0.5	< 2	0.38	< 0.5	8	63	21	3.70	< 10	1	0.23	< 10	1.30	645
H437659	205	226	< 5	0.8	2.82	12	90	< 0.5	< 2	0.19	< 0.5	6	21	17	4.59	10	< 1	0.17	< 10	2.04	790
H437660	205	226	< 5	0.4	2.06	24	210	< 0.5	< 2	0.18	< 0.5	4	33	7	2.86	< 10	< 1	0.18	10	1.59	1475
H437661	205	226	< 5	1.0	1.54	52	280	< 0.5	< 2	0.06	0.5	3	29	34	3.09	< 10	< 1	0.17	< 10	1.12	975

CERTIFICATION:

*ghai D Ma*



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### A9617829

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
H437658	205	226	1	0.03	4	1130	12	< 2	1	40	0.12	< 10	< 10	28	< 10	90
H437659	205	226	3	0.02	3	1250	20	< 2	7	5	0.01	< 10	< 10	62	< 10	94
H437660	205	226	1	0.03	2	630	8	< 2	3	7	0.02	< 10	< 10	22	< 10	108
H437661	205	226	5	< 0.01	1	250	46	< 2	3	6	0.11	< 10	< 10	21	< 10	100

CERTIFICATION:

## APPENDIX V

### BIBLIOGRAPHY, SELECTED REFERENCES

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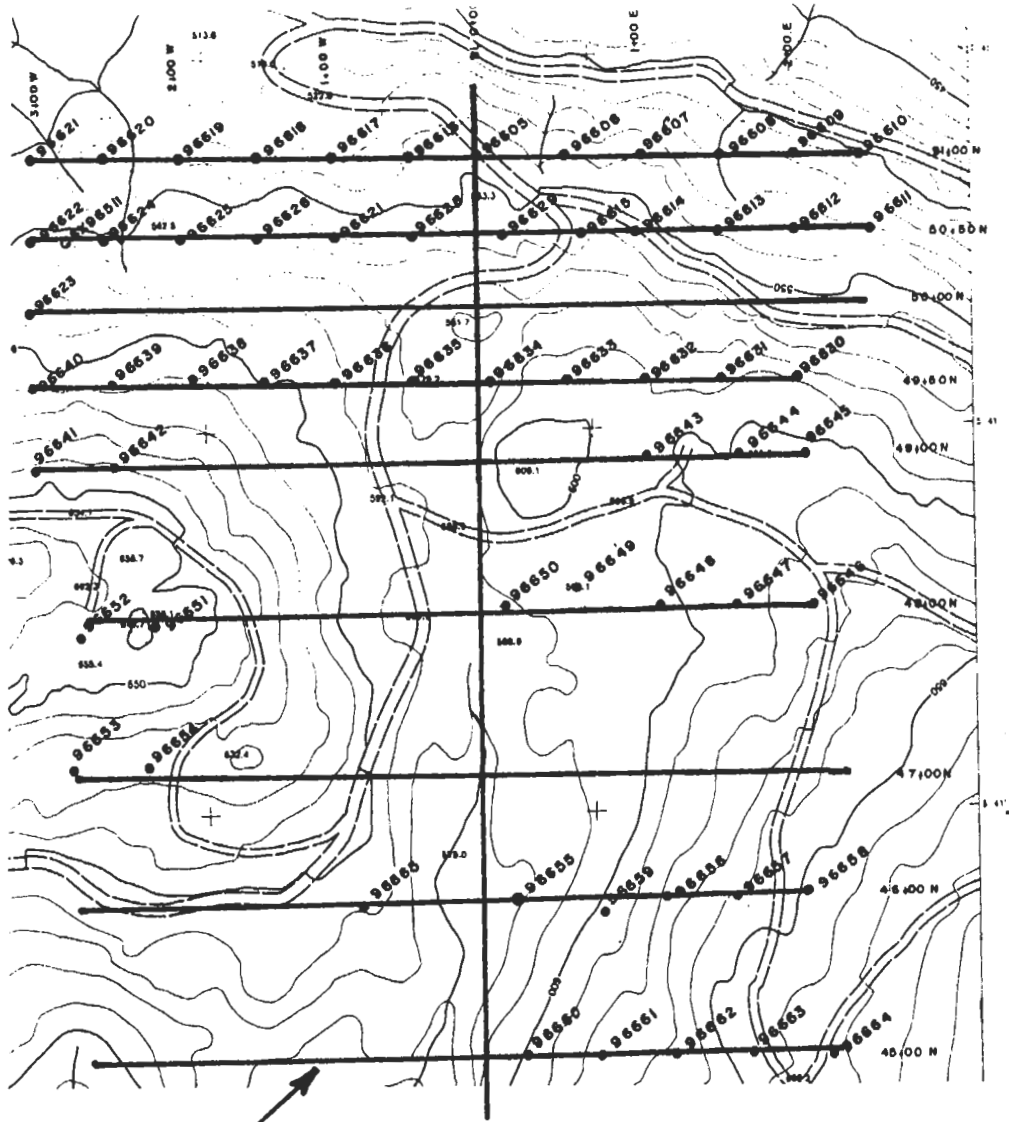
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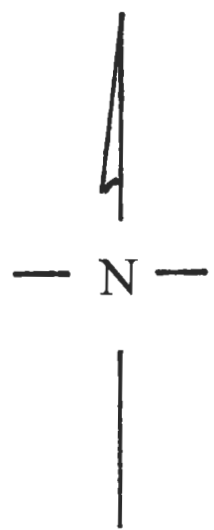
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Grid cut lines with 25 m stations



INSPIRATION MINING CORP  
**JASPER PROPERTY**  
 Grid Location Index Map  
 Scale: 1:5,000  
 To accompany Geological, Geochemical  
 Report by A. O. Birkeland, P. Eng.  
 July, 1996



GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

GEOLOGICAL - GEOCHEMICAL REPORT ON THE JASPER PROPERTY

By: A O Birkeland, P.Eng.

July, 1996

24,716

MAP POCKET, LIST OF FIGURES

<u>Figure Number</u>	<u>NTS#</u>	<u>Figure Name</u>	<u>Scale</u>
4	92C/15	Orthophoto mosaic, Sheet 1	1:5,000
5	92C/15	Orthophoto mosaic, Sheet 2	1:5,000
6	92C/15	Orthophoto mosaic, Sheet 3	1:5,000
7	92C/15	Orthophoto mosaic, Sheet 1	1:2,500
8	92C/15	Orthophoto mosaic, Sheet 2	1:2,500
9	92C/15	Orthophoto mosaic, Sheet 3	1:2,500
10	92C/15	Geology, Sheet 1	1:5,000
11	92C/15	Geology, Sheet 2	1:5,000
12	92C/15	Geology, Sheet 3	1:5,000
13	92C/15	Geology, Sheet 1	1:2,500
14	92C/15	Geology, Sheet 2	1:2,500
15	92C/15	Geology, Sheet 3	1:2,500
16	92C/15	Geochemistry, Anomalous Results, Sheet 1	1:5,000

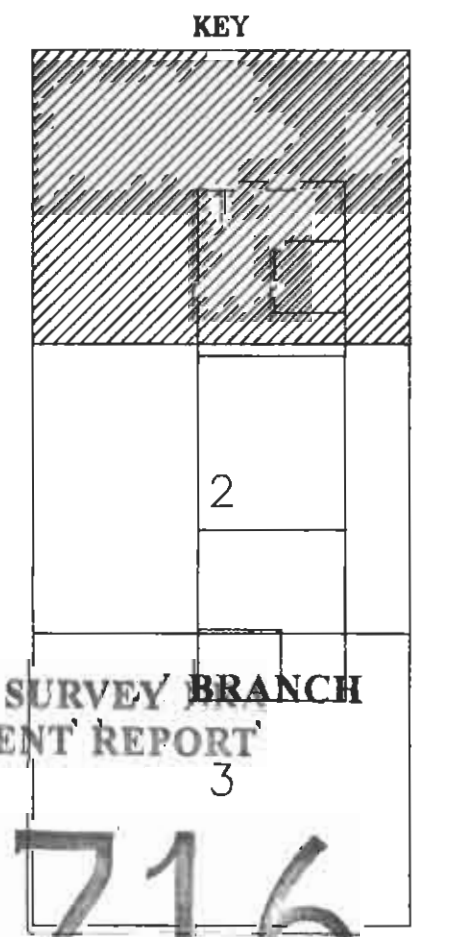
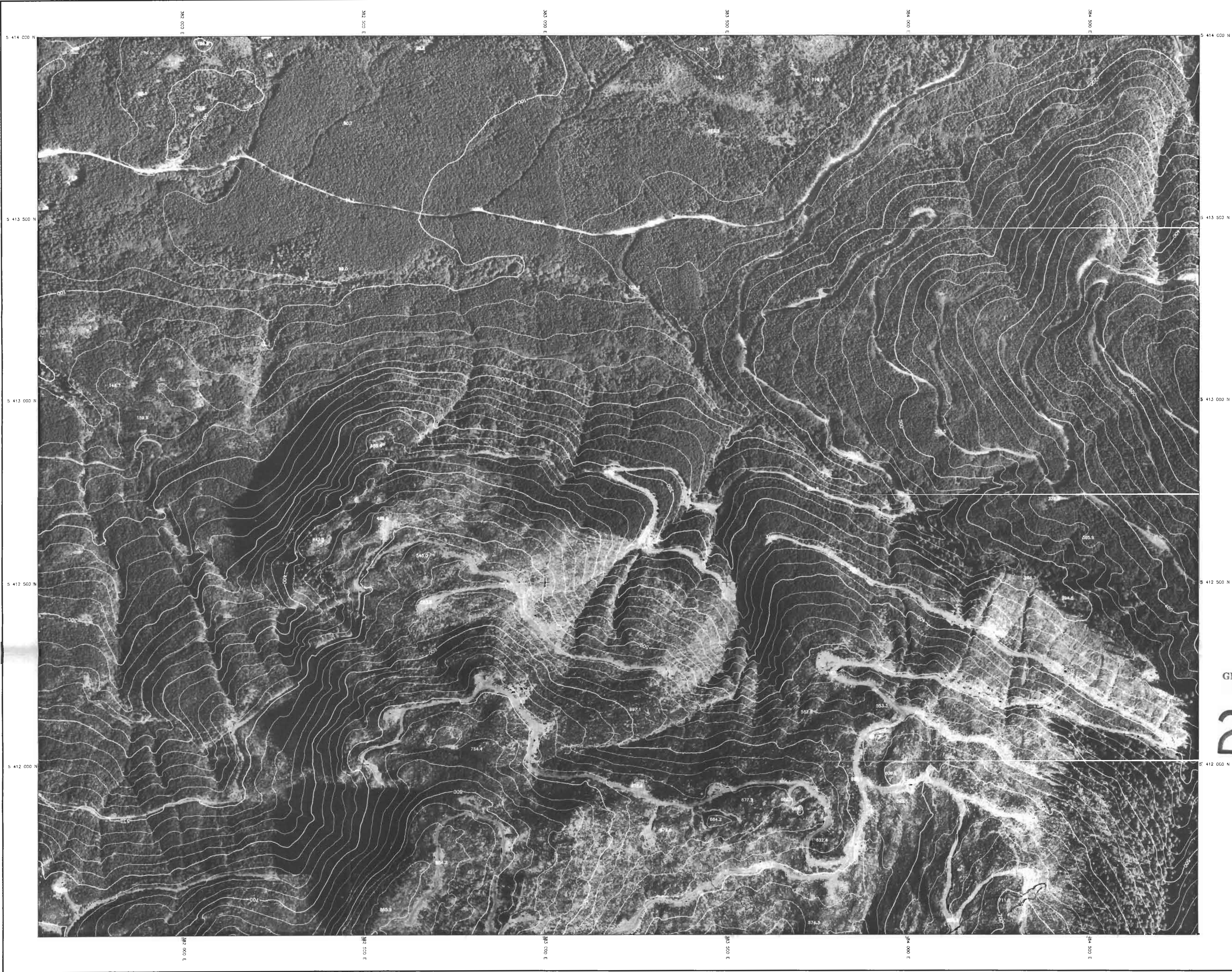


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MAP POCKET, LIST OF FIGURES (continued)

17	92C/15	Geochemistry, Anomalous Results, Sheet 2	1:5,000
18	92C/15	Geochemistry, Anomalous Results, Sheet 1	1:2,500
19	92C/15	Geochemistry, Anomalous Results, Sheet 2	1:2,500
20	92C/15	Geochemistry, Anomalous Results, Sheet 3	1:2,500
21	92C/15	Geochemistry, Sample Locations, Sheet 1	1:5,000
22	92C/15	Geochemistry, Sample Locations, Sheet 2	1:5,000
23	92C/15	Geochemistry, Sample Locations, Sheet 3	1:5,000
24	92C/15	Geochemistry, Sample Locations, Sheet 1	1:2,500
25	92C/15	Geochemistry, Sample Locations, Sheet 2	1:2,500
26	92C/15	Geochemistry, Sample Locations, Sheet 3	1:2,500
27	92C/15	Compilation Map of Exploration Targets	1:2,500

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GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

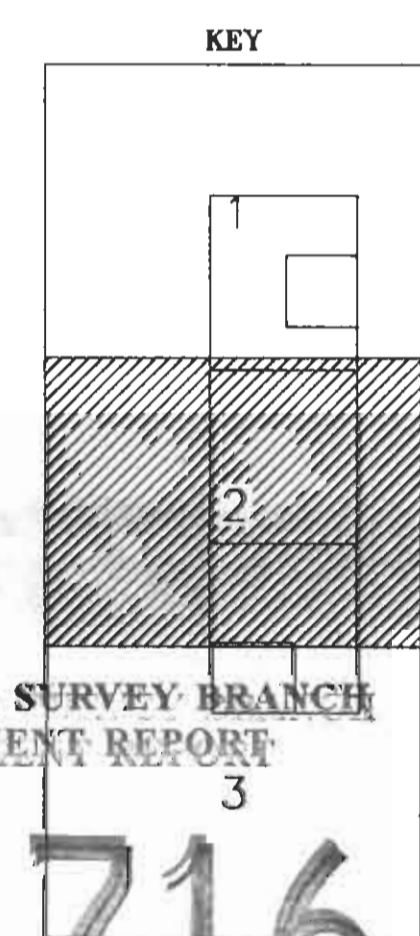
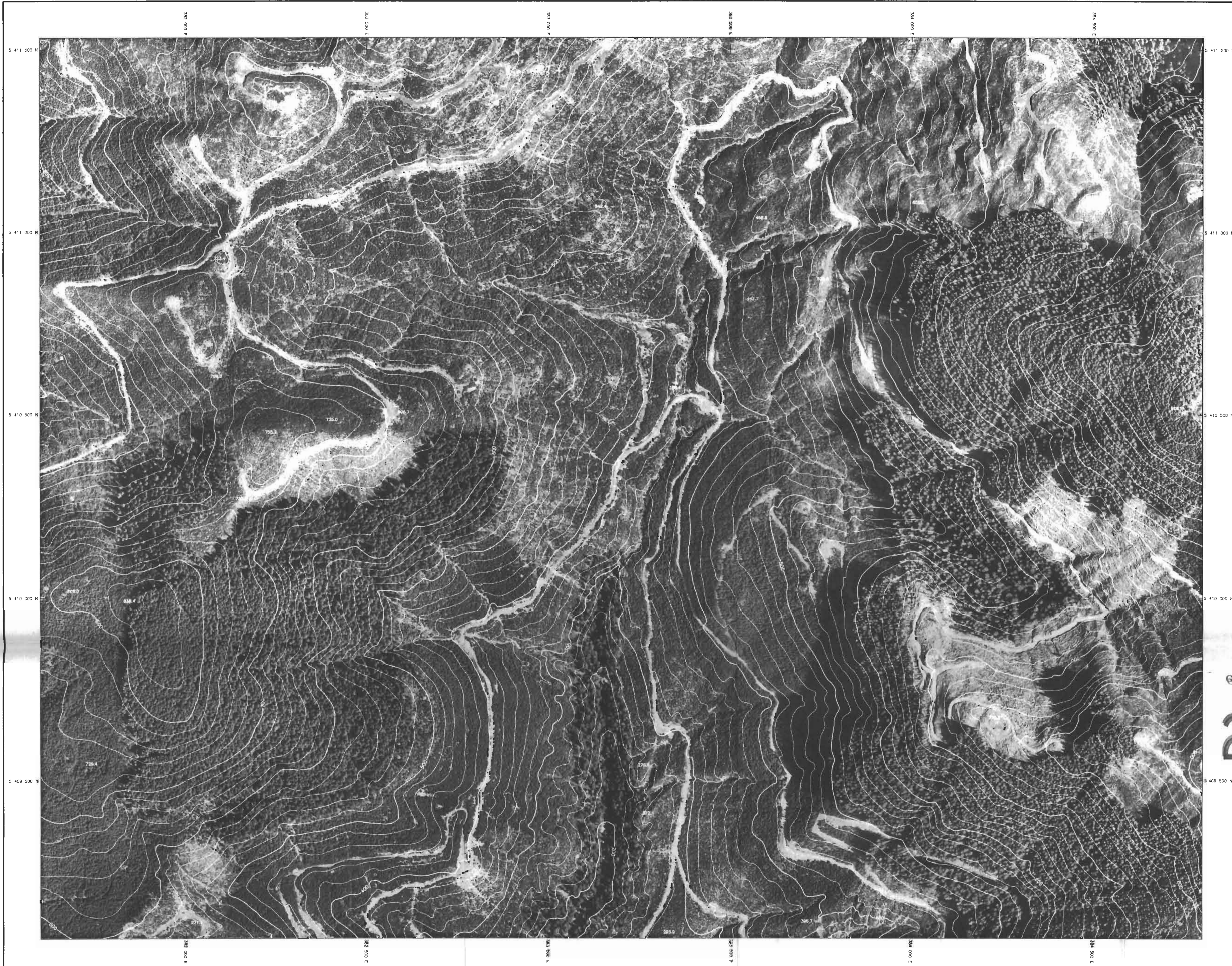
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INSPIRATION MINING CORP.	
Orthophoto Mosaic, Sheet 1	
Scale: 1:5,000	
July, 1996	Figure 4
OPERATOR: ARNEX RESOURCES LTD.	

**JASPER PROPERTY**

CONTOUR INTERVAL 20 m  
SCALE 1:5000





GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT  
3

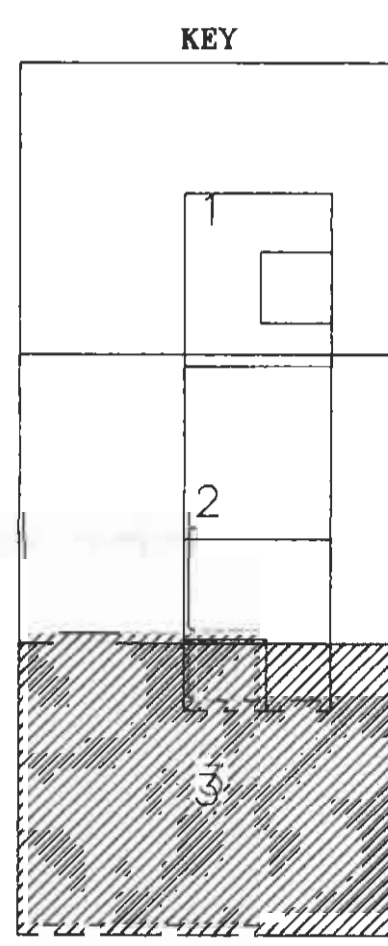
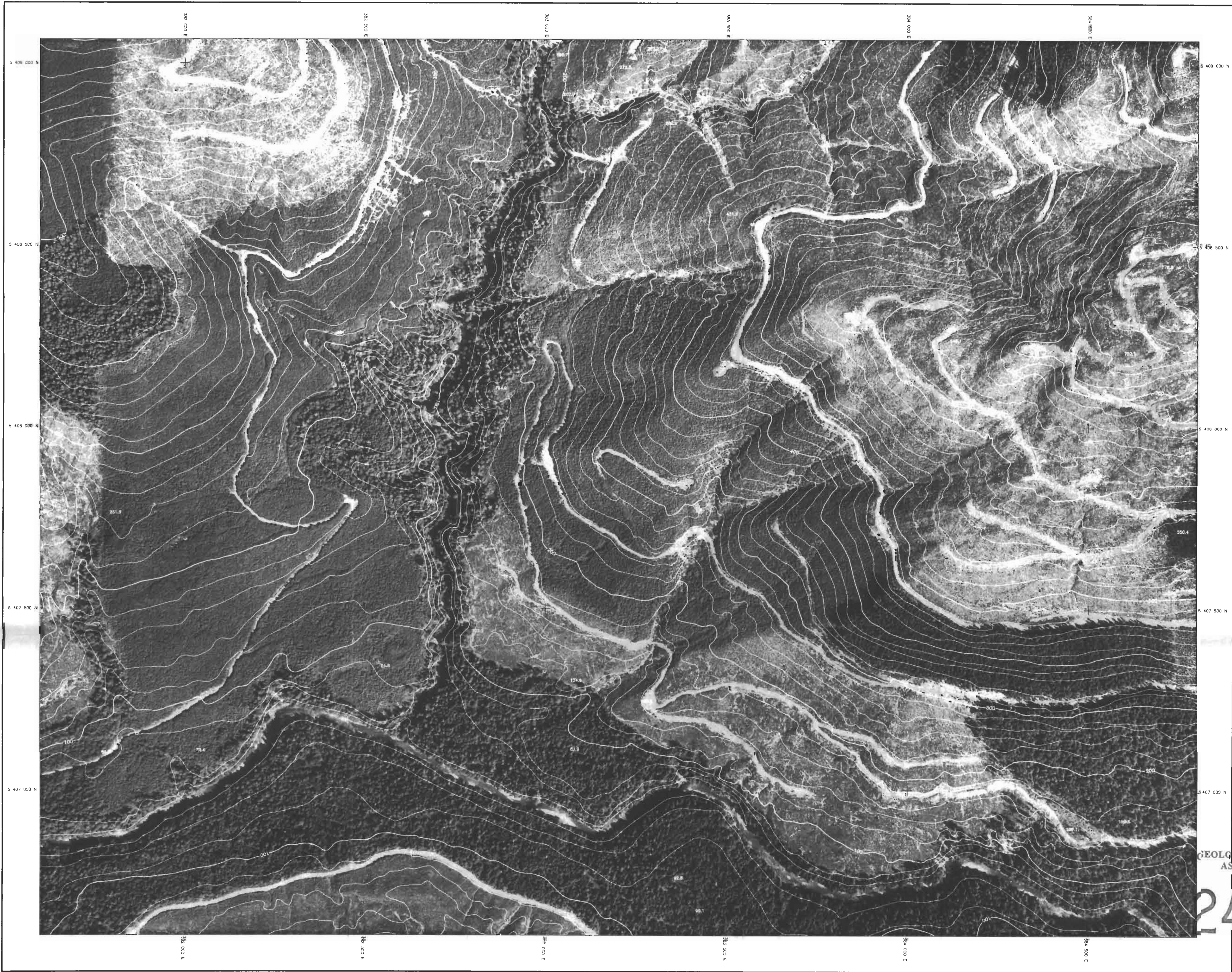
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INSPIRATION MINING CORP.	
Orthophoto Mosaic, Sheet 2	
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July, 1996	Figure 5
OPERATOR: ARNEX RESOURCES LTD.	

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CONTOUR INTERVAL 20m  
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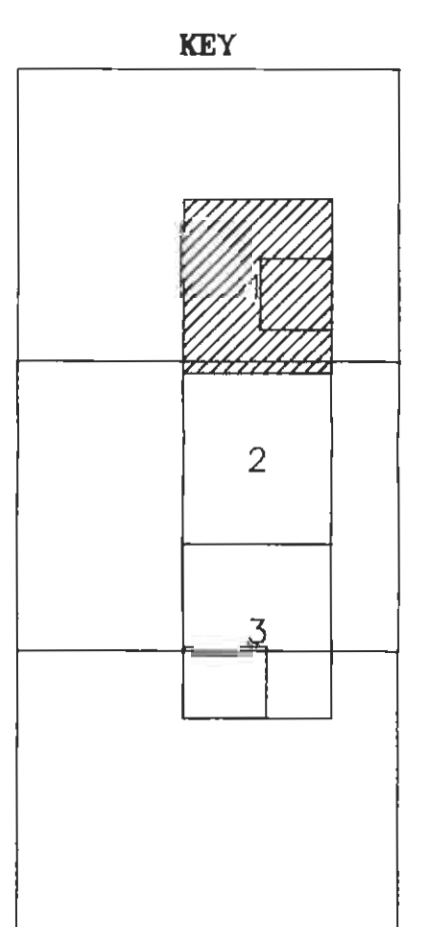
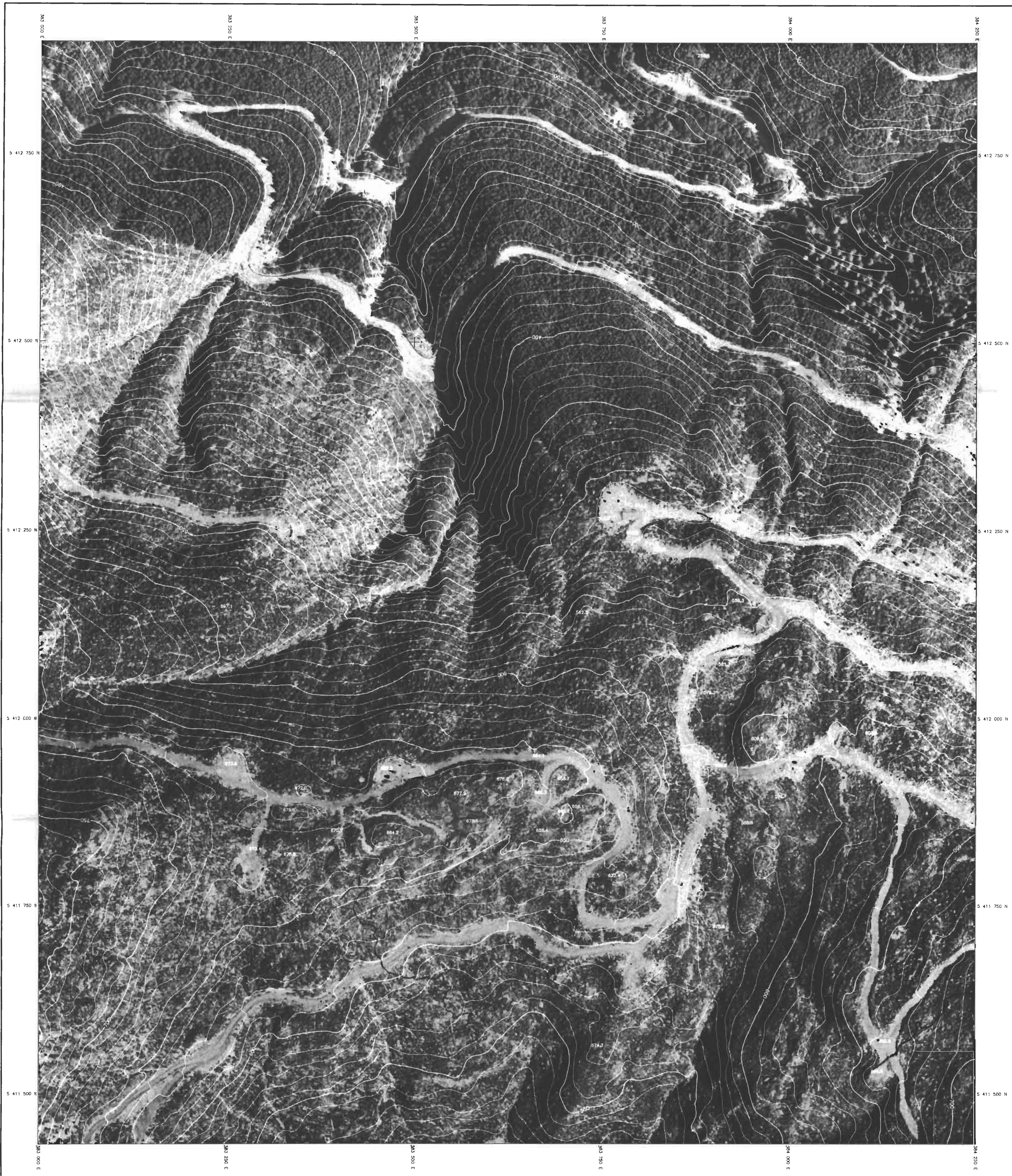


INSPIRATION MINING CORP.	
Orthophoto Mosaic, Sheet 3	
Scale: 1:5,000	
July, 1996	Figure 6
OPERATOR: ARNEX RESOURCES LTD.	

GEOLOGICAL AND MINING  
**JASPER PROPERTY**  
 ASSESSMENT REPORT

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 CONTOUR INTERVAL 20m  
 SCALE 1:5000





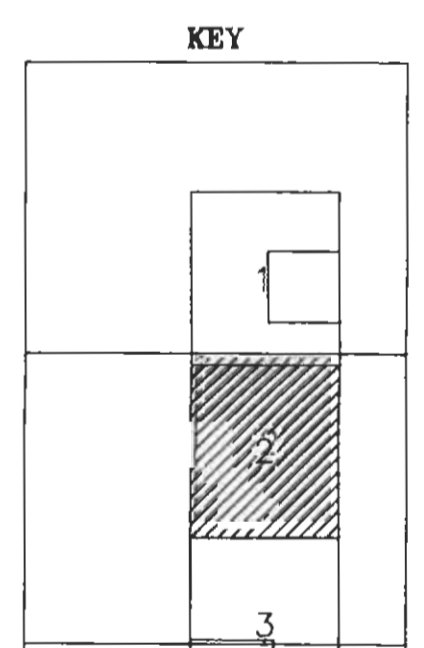
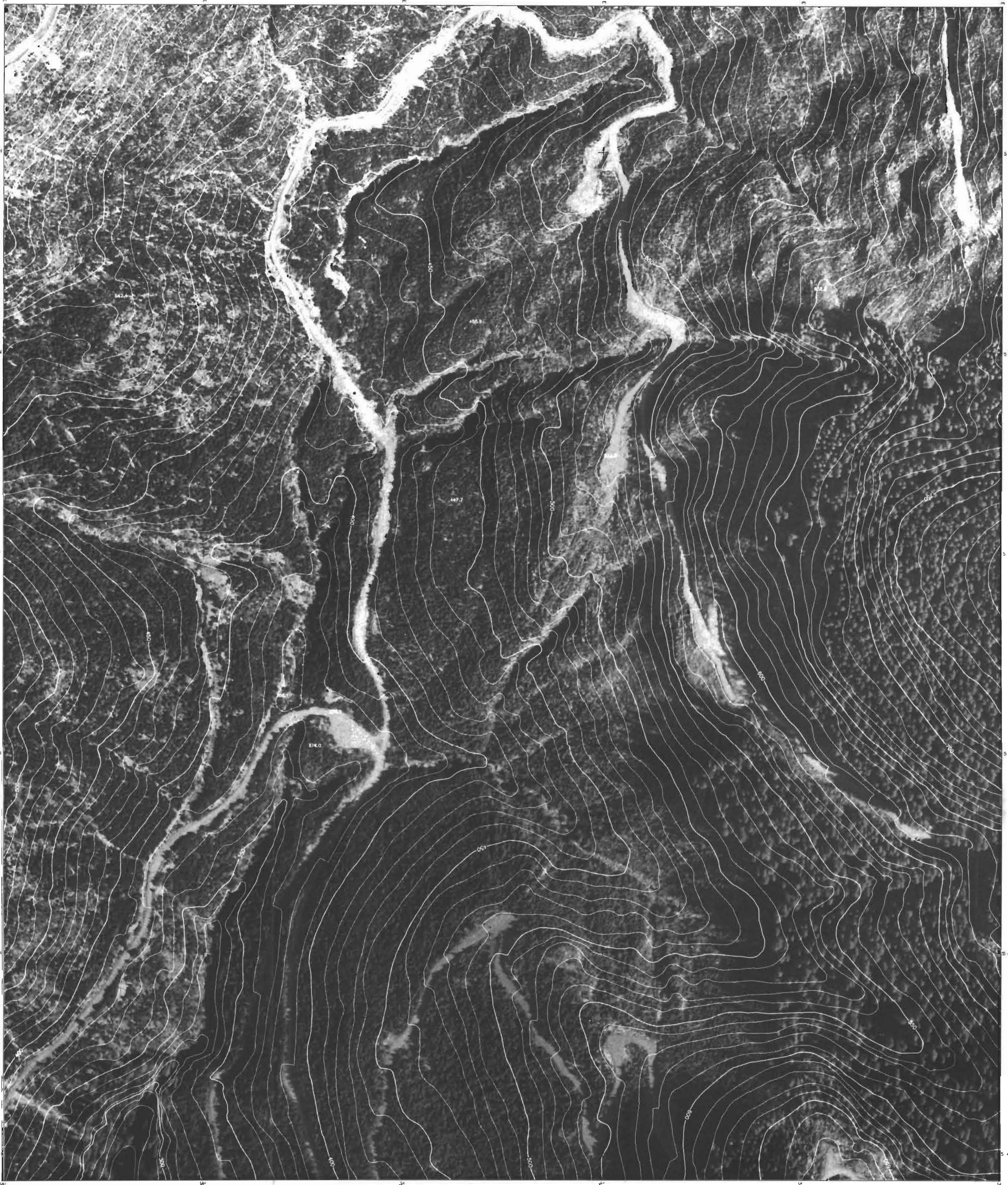
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Orthophoto Mosaic, Sheet 1
Scale: 1:2,500
July, 1996 Figure 7
OPERATOR: ARNEI RESOURCES LTD.

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SCALE 1:2500



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 BIOLOGICAL SURVEY BRANCH  
 ASSESSMENT REPORT



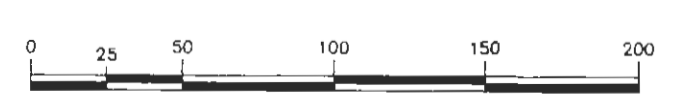
GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

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INSPIRATION MINING CORP.

Orthophoto Mosaic, Sheet 2	
Scale: 1:2,500	
July, 1996	Figure 8
OPERATOR: ARNEX RESOURCES LTD.	

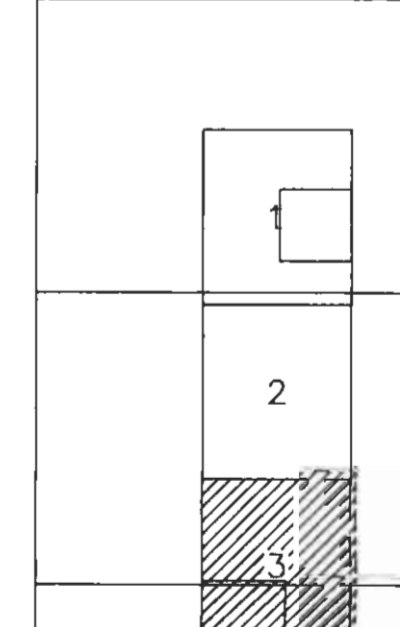
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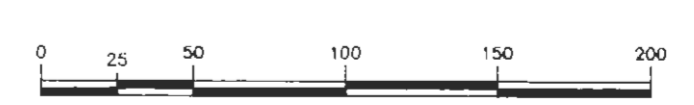
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ASSESSMENT REPORT

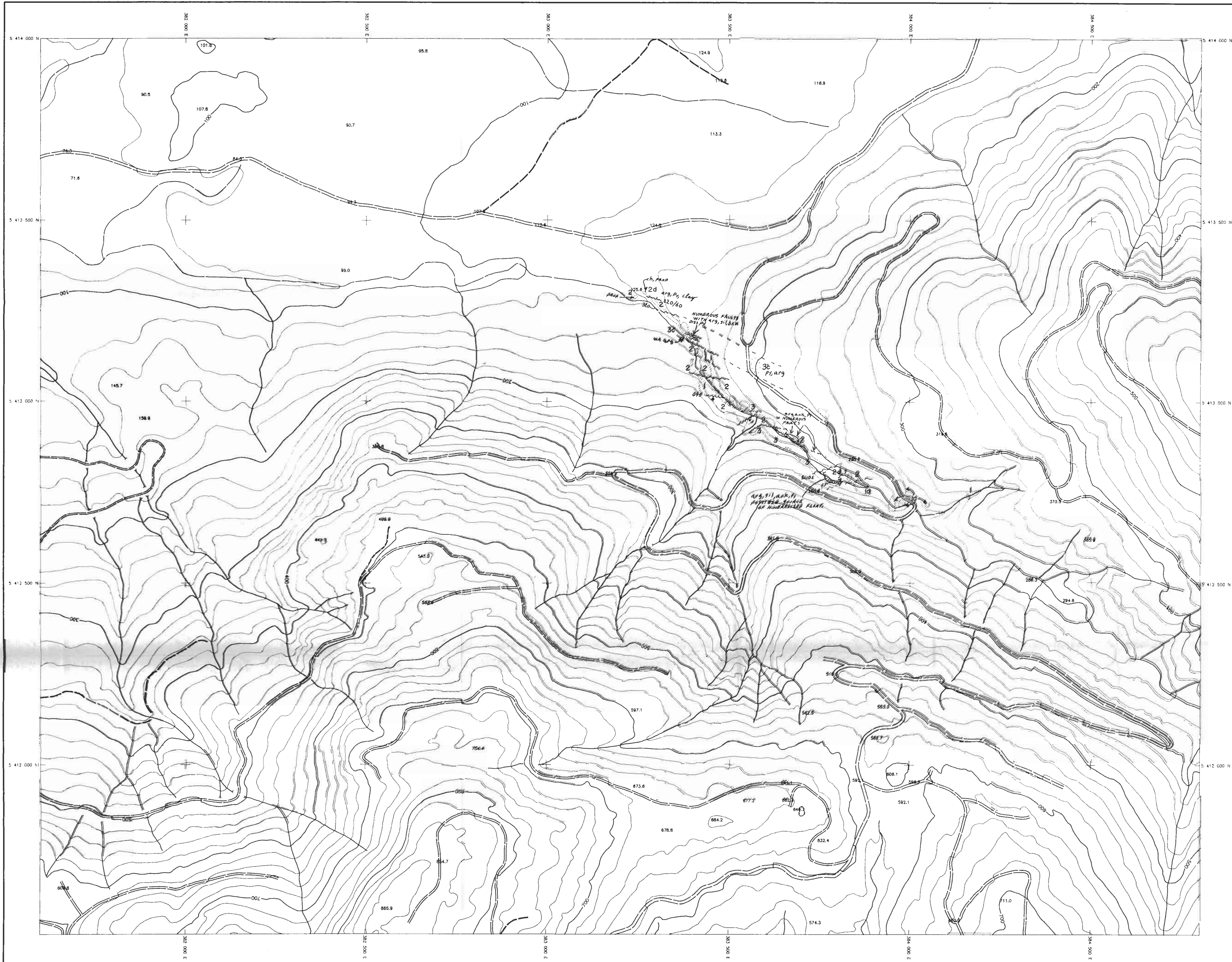
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OPERATOR: ARNEK RESOURCES LTD.	
July, 1996	Figure 9
Scale: 1:2,500	
Orthophoto Mosaic, Sheet 3	
OPERATOR: ARNEK RESOURCES LTD.	

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CONTOUR INTERVAL 10m  
SCALE 1:2500



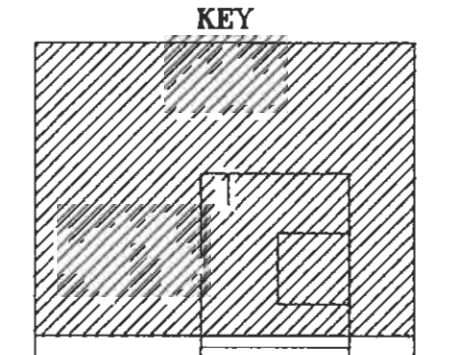


LEGEND	
INDEX CONTOUR	25
INTERMEDIATE CONTOUR	
STREAM	
PERMANENT STREAM	
INDEFINITE STREAM	
SPOT HEIGHT	437.5

- GEOLOGICAL LEGEND**
- MAFIC VOLCANICS - UNDIFFERENTIATED**
    - a - massive flows and pillowed flows
    - b - agglomerate and breccia
    - c - tuff
  - INTERMEDIATE VOLCANICS - UNDIFFERENTIATED**
    - a - bedded porphyry - massive and brecciated
    - b - dacitic flows
    - c - intermediate tuffs
  - FELSIC VOLCANICS - UNDIFFERENTIATED**
    - a - massive flows - commonly bedded
    - b - agglomerate
    - c - tuff - undifferentiated
  - ARGILLITE - SILTSTONE**
  - HEMATITIC BRECCIA**
  - MAFIC DYKES**

- LIST OF ABBREVIATIONS**
- | Symbol | Description                     |
|--------|---------------------------------|
| ank    | ankerite alteration and veining |
| arg    | argillite alteration            |
| alt    | alteration                      |
| br     | breccia                         |
| ch/arg | chlorite, chloritic alteration  |
| cpy    | chalcopyrite                    |
| dis    | disseminated                    |
| epi    | epidote                         |
| FZ     | fault zone                      |
| gal    | galena                          |
| min    | mineralization (metallic)       |
| prop   | propylitic alteration           |
| py     | pyrite                          |
| Q      | quartz                          |
| QV     | quartz vein                     |
| sil    | siliceous alteration            |
| shk    | shale                           |
| sp     | sphalerite                      |
| wk     | weak                            |

- MAP SYMBOLS**
- Geological Contact - defined, approximate, assumed
  - Outcrop - large, small
  - Fault - defined, approximate, assumed lateral movement, and throw (dot indicates down)
  - Reverse / thrust fault - defined, approximate, assumed
  - Air photo lineer
  - Bedding, upright, overturned
  - Vein
  - Dike or dyke



GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

**24,716**

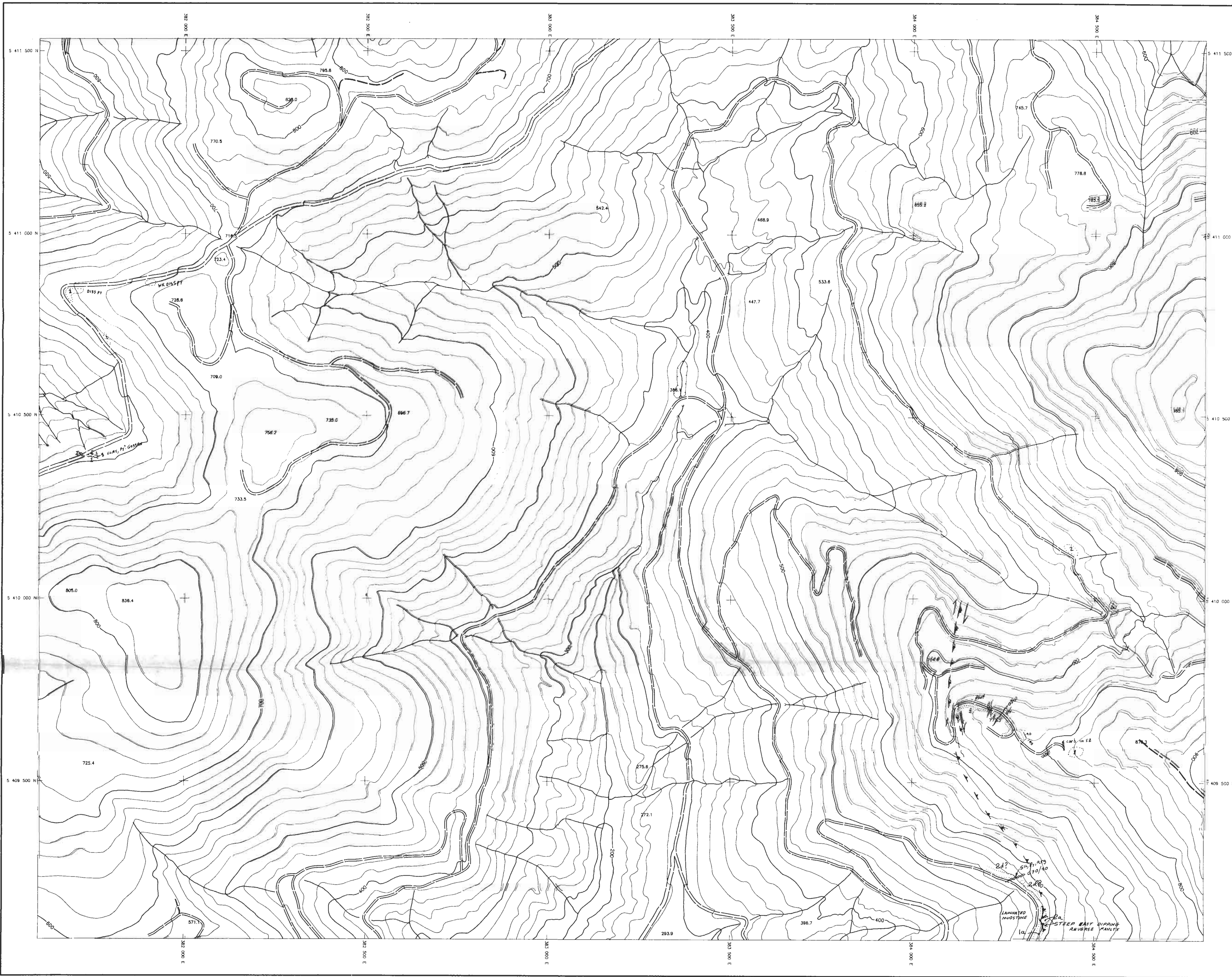
INSPIRATION MINING CORP.  
Geology, Sheet 1  
Scale: 1:5,000  
July, 1996 Figure 10  
OPERATOR: ARKAZ RESOURCES LTD.

**JASPER PROPERTY**

CONTOUR INTERVAL 20 m  
SCALE 1:5000







LEGEND	
INDEX CONTOUR	25
INTERMEDIATE CONTOUR	
STREAM	
INTERMITTENT STREAM	
INDISTINCT STREAM	
SPOT HEIGHT	437.8

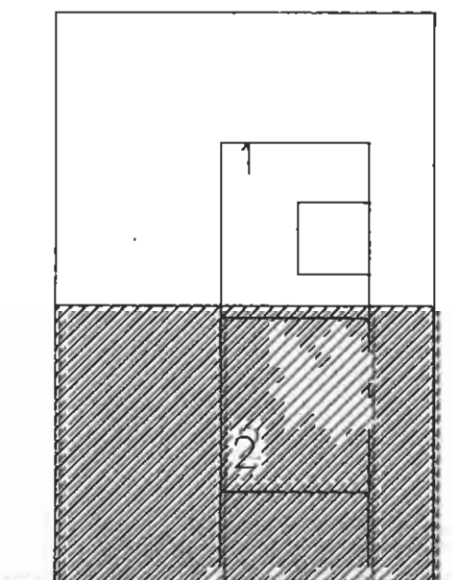
- GEOLOGICAL LEGEND**
- MAFIC VOLCANICS - UNDIFFERENTIATED**
    - a - massive flow and pillowed flow
    - b - agglomerated and breccia
    - c - tuff
  - INTERMEDIATE VOLCANICS - UNDIFFERENTIATED**
    - a - felsic porphyry - massive and brecciated
    - b - dacitic flows
    - c - intermediate tuffs
  - FELSIC VOLCANICS - UNDIFFERENTIATED**
    - a - massive flows - commonly banded
    - b - agglomerata
    - c - tuff - undifferentiated
  - ARGILLITE - SILTSTONE**
  - HEMATITIC BRECCIA**
  - MAFIC DYKES**

**LIST OF ABBREVIATIONS**

Symbol	Description
ank	andritic alteration and veining
arg	argillite alteration
alt	alteration
br	breccia
chlc	chlorite, chlorite alteration
cpy	chalcopyrite
dis	dissiminated
epi	epidote
FZ	fault zone
gal	galena
min	mineralization (metallic)
prop	propylitic alteration
py	pyrite
Q	quartz
QV	quartz vein
sil	silica alteration
stwk	stockwork
spk	spinel
wk	wreck

- MAP SYMBOLS**
- Geological Contact - defined, approximate, assumed
  - Outcrop - large, small
  - Fault - defined, approximate, assumed (arrow indicates lateral movement, and throw (dot indicates down))
  - Reverse / thrust fault - defined, approximate, assumed
  - Air photo lineer
  - Bedding, upright, overturned
  - Vein
  - Structure

KEY



GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

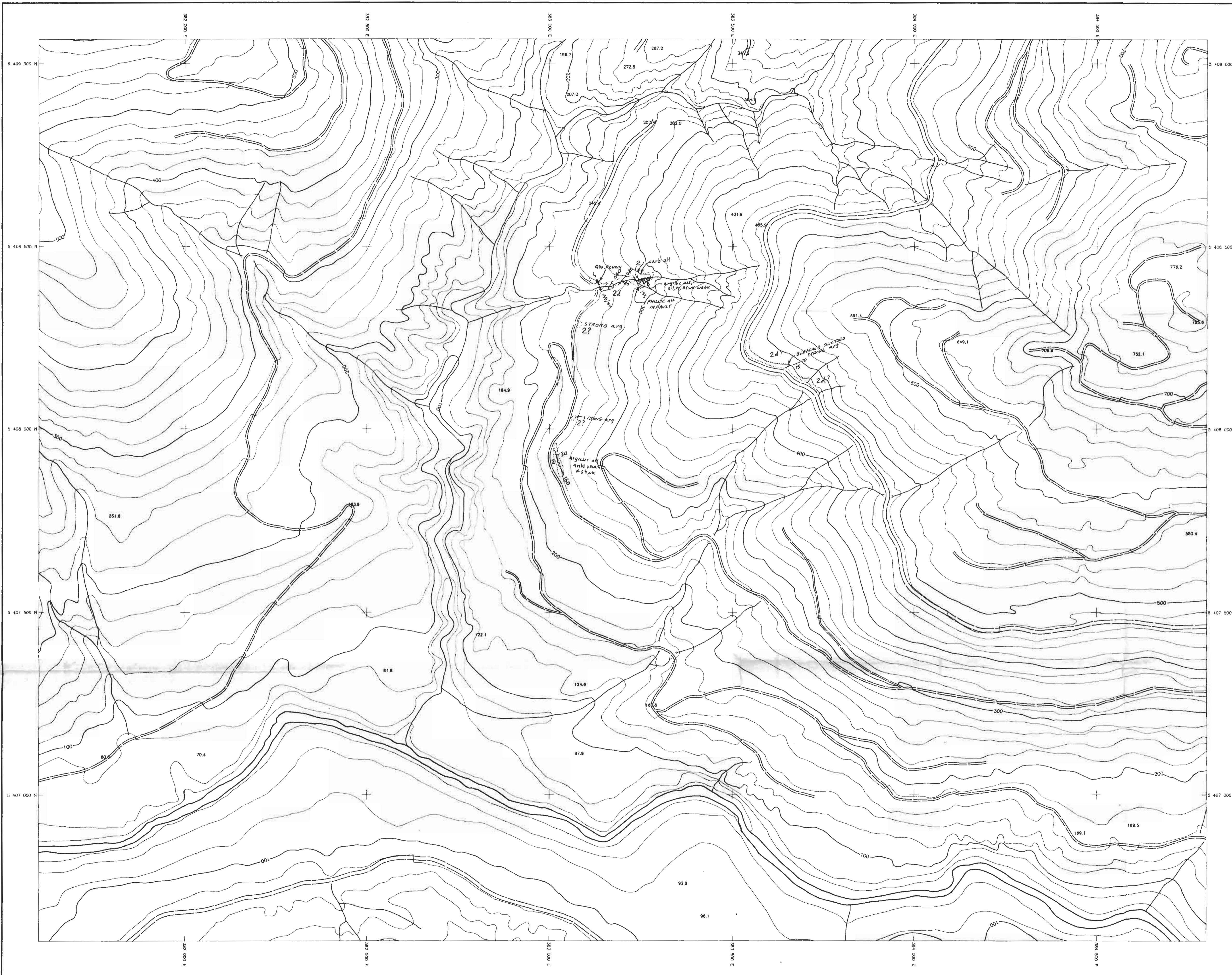
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INSPIRATION MINING CORP.	
Geology, Sheet 2	
Scale: 1:5,000	
July, 1996	Figure 11
OPERATOR: ARNEZ RESOURCES LTD.	

JASPER PROPERTY

CONTOUR INTERVAL 20 m  
SCALE 1:5000





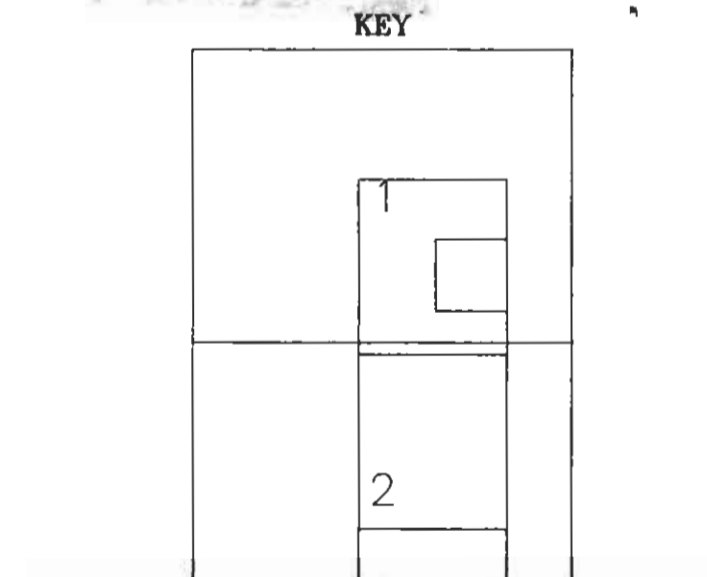
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INDEX CONTOUR	— 25 —
INTERMEDIATE CONTOUR	— — —
STREAM	— — —
INTERMITTENT STREAM	— — —
INDEFINITE STREAM	— — —
SPOT HEIGHT	437.5

- GEOLOGICAL LEGEND**
- MAFIC VOLCANICS - UNDIFFERENTIATED**
    - a - massive flows and allowed flows
    - b - agglomerate and breccia
    - c - tuff
  - INTERMEDIATE VOLCANICS - UNDIFFERENTIATED**
    - a - bedded porphyry - massive and brecciated
    - b - dacitic flows
    - c - intermediate tuffs
  - FELSIC VOLCANICS - UNDIFFERENTIATED**
    - a - massive flows - commonly banded
    - b - agglomerate
    - c - tuff - undifferentiated
  - ARGILLITE - SILTSTONE
  - HEMATITIC BRECCIA
  - MAFIC DYKES

**LIST OF ABBREVIATIONS**

Symbol	Description
ank	alkalic alteration and veining
arg	argillite alteration
alk	alkalic alteration
bc	breccia
ch/br	chlorite, chloritic alteration
cpy	chalcopyrite
dis	disseminated
epi	epidote
FZ	fault zone
gal	galena
min	mineralization (metallic)
prop	propylitic alteration
py	pyrite
Q	quartz
QV	quartz vein
sil	perverse silicification
stwk	stockwork
sph	sphalerite
wk	weak

- MAP SYMBOLS**
- Geological Contact - defined, approximate, assumed.
  - Outcrop - large, small
  - Fault - defined, approximate, assumed lateral movement, and throw (dot indicates down)
  - Reverse / thrust fault - defined, approximate, assumed
  - Air photo locus
  - Bedding, upright, overturned
  - Vein
  - Joint or fracture



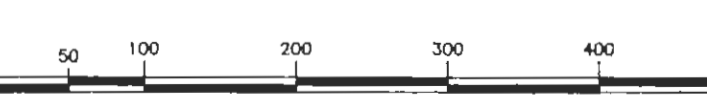
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ASSESSMENT REPORT

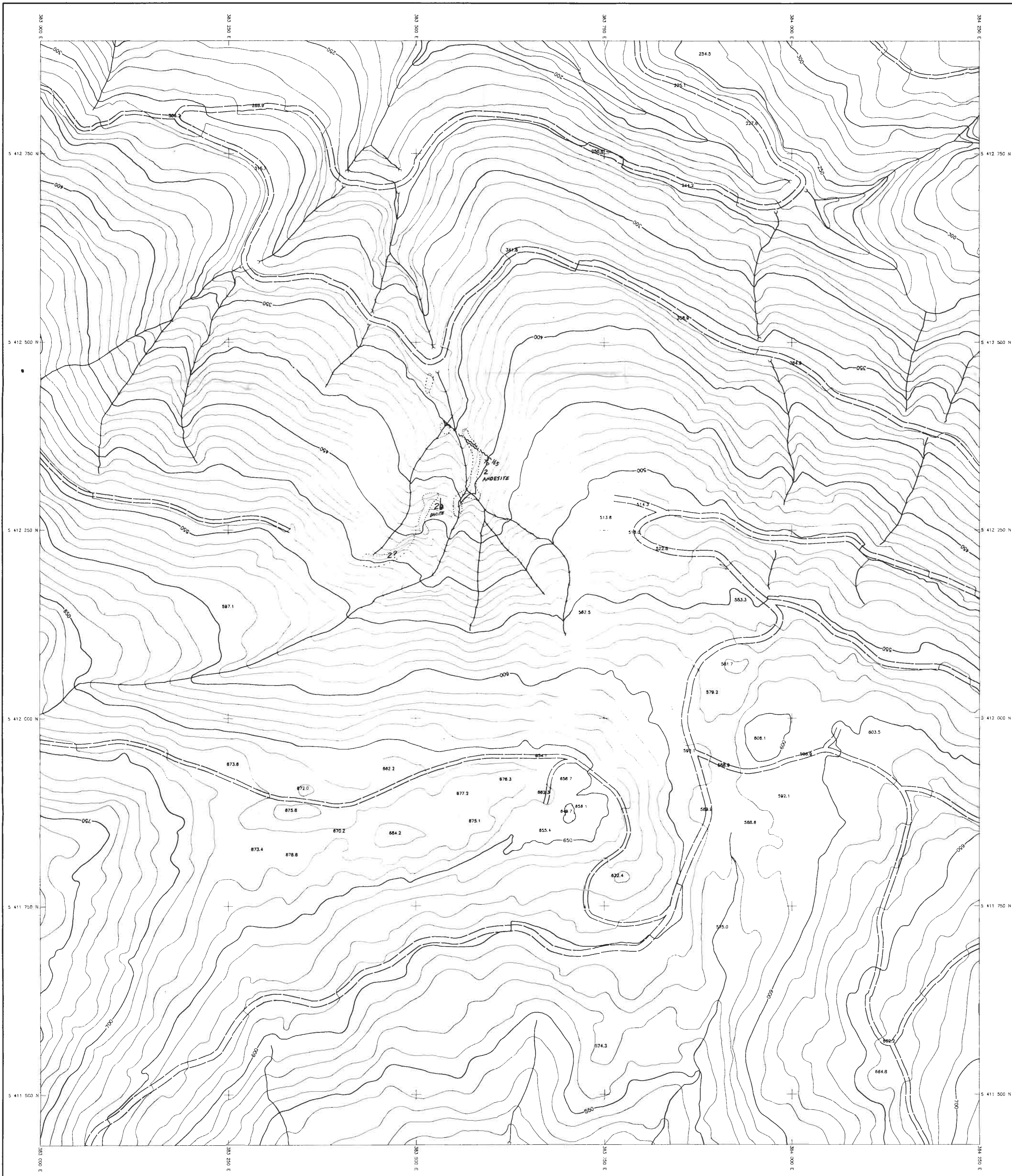
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INSPIRATION MINING CORP.	
Geology, Sheet 3	
Scale: 1:5,000	
July, 1996	Figure 12
OPERATOR: ARNEI RESOURCES LTD.	

JASPER PROPERTY

CONTOUR INTERVAL 20m  
SCALE 1:5000





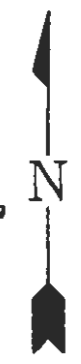
LEGEND	
INDEX CONTOUR	-----25-----
INTERMEDIATE CONTOUR	-----*-----
STREAM	----- -----
INTERMITTENT STREAM	----- -----
INDEFINITE STREAM	----- -----
SPOT HEIGHT	437.5

**GEOLOGICAL LEGEND**

- 1 MAFIC VOLCANICS - UNDIFFERENTIATED
  - a - massive flows and pillowed flows
  - b - agglomerate and breccia
  - c - tuff
- 2 INTERMEDIATE VOLCANICS - UNDIFFERENTIATED
  - a - felsic porphyry - massive and brecciated
  - b - dacitic flows
  - c - intermediate tuffs
- 3 FELSIC VOLCANICS - UNDIFFERENTIATED
  - a - massive flows - commonly banded
  - b - agglomerate
  - c - tuff - undifferentiated
- 4 ARGILLITE - SILTSTONE
- 5 HEMATITIC BRECCIA
- 6 MAFIC DYKES

**LIST OF ABBREVIATIONS**

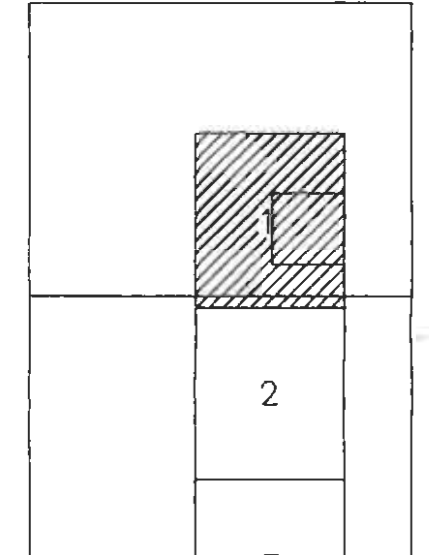
Symbol	Description
ank	ankerite alteration and veining
arg	argillite alteration
alt	alteration
br	breccia
chl/chl-b	chlorite, chloritic alteration
ep	epidote
diz	diagenetically
epi	epidote
FZ	fault zone
gal	galena
mn	mineralization (metalic)
prop	propylitic alteration
py	pyrite
g	gangue
qv	quartz vein
alt	permeable alteration
stwk	stockwork
sph	sphalerite
wk	weak



**MAP SYMBOLS**

- Geological Contact - defined, approximate, assumed.
- Outcrop - large, small
- Fault - defined, approximate, assumed lateral movement, and throw (dot indicates down)
- Reverse / thrust fault - defined, approximate, assumed
- Air photo linear
- Bedding, upright, overturned
- Vein
- Joint or fracture

**KEY**



**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

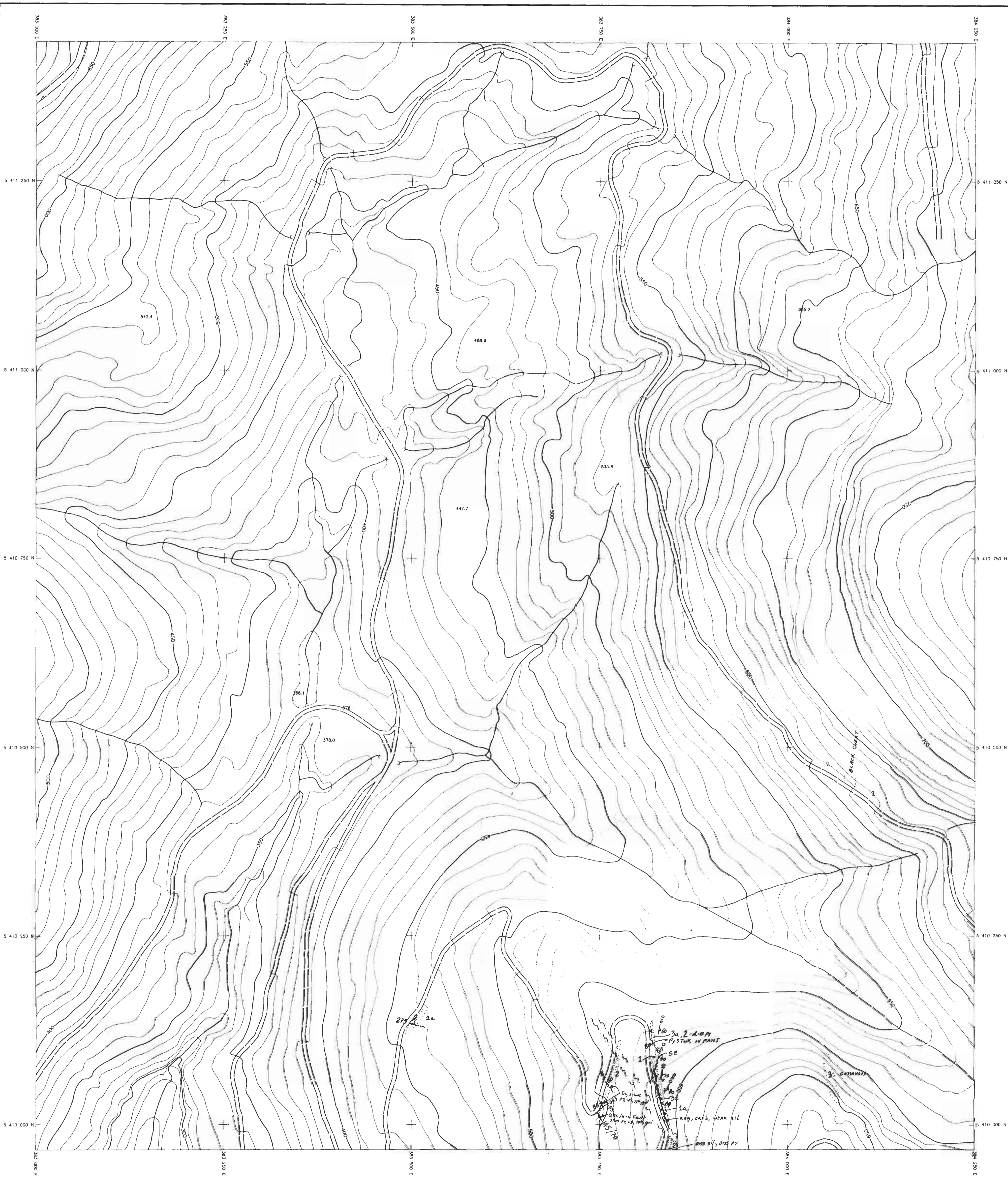
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<b>INSPIRATION MINING CORP.</b>	
Geology, Sheet 1	
Scale: 1:2,500	
July, 1996	Figure 13
OPERATOR: ARNEI RESOURCES LTD.	

**JASPER PROPERTY**

CONTOUR INTERVAL 10 m  
SCALE 1:2500





**LEGEND**

INDEX CONTOUR	— 25 —
INTERMEDIATE CONTOUR	— — —
STREAM	— — —
INTERMITTENT STREAM	— — —
INDEFINITE STREAM	— — —
SPOT HEIGHT	437.8

**GEOLOGICAL LEGEND**

- 1 **MAFIC VOLCANICS - UNDIFFERENTIATED**
  - a - massive flows and pillowed flows
  - b - agglomerate and breccia
  - c - tuff
- 2 **INTERMEDIATE VOLCANICS - UNDIFFERENTIATED**
  - a - felsic porphyry - massive and brecciated
  - b - dacitic flows
  - c - intermediate tuff
- 3 **FELSIC VOLCANICS - UNDIFFERENTIATED**
  - a - massive flows - commonly brecciated
  - b - agglomerate
  - c - tuff - undifferentiated
- 4 **ARGILLITE - SILTSTONE**
- 5 **HEMATITIC BRECCIA**
- 6 **MAFIC DYKES**

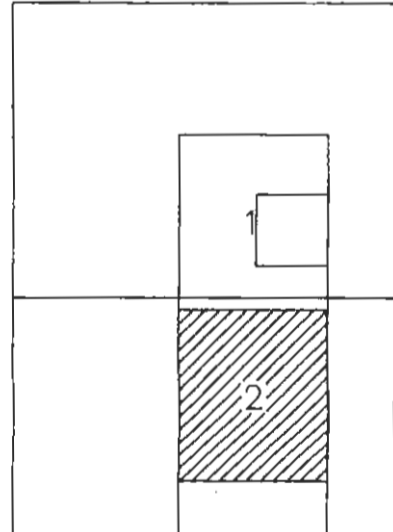
**LIST OF ABBREVIATIONS**

Symbol	Description
ank	ankerite alteration and veining
arg	argillic alteration
alt	alteration
bx	breccia
chl	chlorite, chloritic alteration
cpy	chloropyrite
disa	disseminated
epi	epidote
FZ	fault zone
gal	galena
min	mineralization (metalic)
prop	propylitic alteration
py	pyrite
Q	quartz
QV	quartz veins
sil	siliceous alteration
stwk	stockwork
sph	sphalerite
wk	weak

**MAP SYMBOLS**

- Geological Contact - defined, approximate, assumed.
- Outcrop - large, small
- Fault - defined, approximate, assumed
  - lateral movement, and throw (dot indicates down)
- Reverse / thrust fault - defined, approximate, assumed
- Air photo linear
- Bedding, upright, overturned
- Vein
- Joint or fracture

**KEY**



**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

**24,716**

**INSPIRATION MINING CORP.**

**Geology, Sheet 2**

**Scale: 1:2,500**

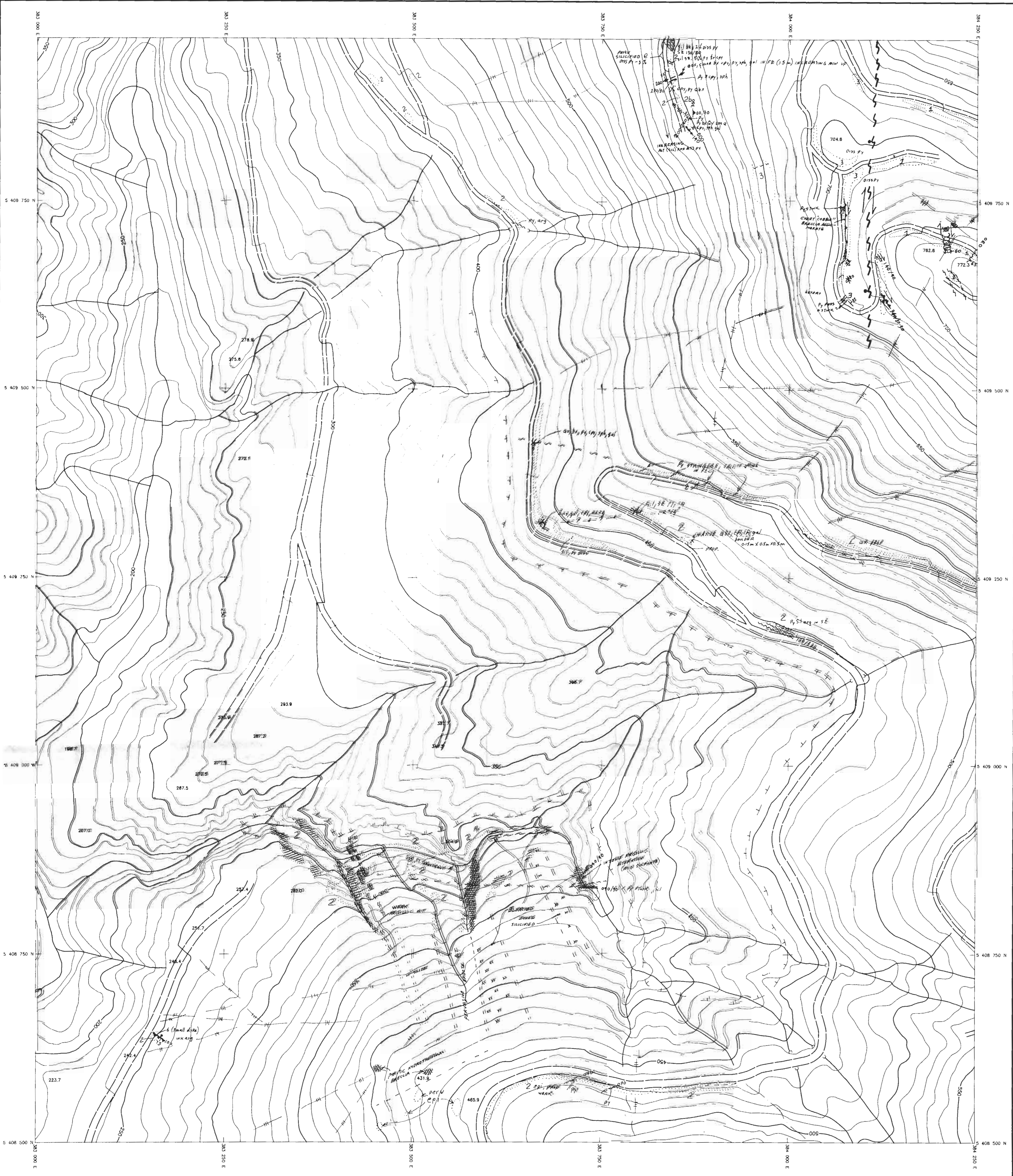
**July, 1996 Figure 14**

**OPERATOR: ARNEI RESOURCES LTD.**

**JASPER PROPERTY**

**CONTOUR INTERVAL 10m  
SCALE 1:2500**





LEGEND	
INDEX CONTOUR	— 25 —
INTERMEDIATE CONTOUR	— — — —
STREAM	— — — —
INTERMITTENT STREAM	- - - - -
INDEFINITE STREAM	~ ~ ~ ~ ~
SPOT HEIGHT	437.5

**GEOL. LEGEND**

- MAFIC VOLCANICS - UNDIFFERENTIATED**
  - a - massive flows and pillowed flows
  - b - agglomerate and breccia
  - c - tuff
- INTERMEDIATE VOLCANICS - UNDIFFERENTIATED**
  - a - feldspar porphyry - massive and brecciated
  - b - dacitic flows
  - c - intermediate tuffs
- FELSIC VOLCANICS - UNDIFFERENTIATED**
  - a - massive flows - commonly banded
  - b - agglomerate
  - c - tuff - undifferentiated
- ARGILLITE - SILTSTONE**
- HEMATITIC BRECCIA**
- MAFIC DYKES**

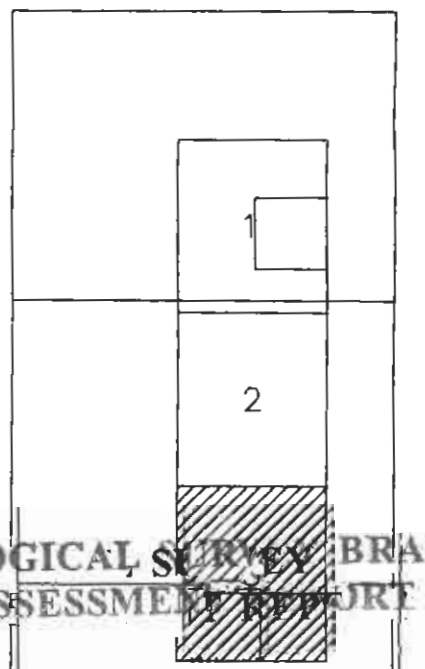
**LIST OF ABBREVIATIONS**

Symbol	Description
ank	ankerite alteration and veining
anj	ankerite alteration
al	alteration
bl	breccia
chl/chlorite	chlorite alteration
cpy	chalcopyrite
dial	disseminated
ep	epidote
FZ	fault zone
gal	galena
min	mineralization (metallic)
prop	propylitic alteration
py	pyrite
Q	quartz
QV	quartz vein
sil	peralpine silicification
stwk	stockwork
sph	sphalerite
wk	weak

**MAP SYMBOLS**

- Geological Contact - defined, approximate, assumed.
- Outcrop - large, small
- Fault - defined, approximate, assumed
- Reverse / thrust fault - defined, approximate, assumed
- Air photo lineer
- Bedding, upright, overturned
- Vein
- Joint of fracture

**KEY**



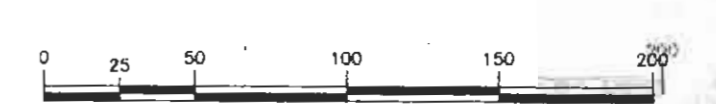
**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

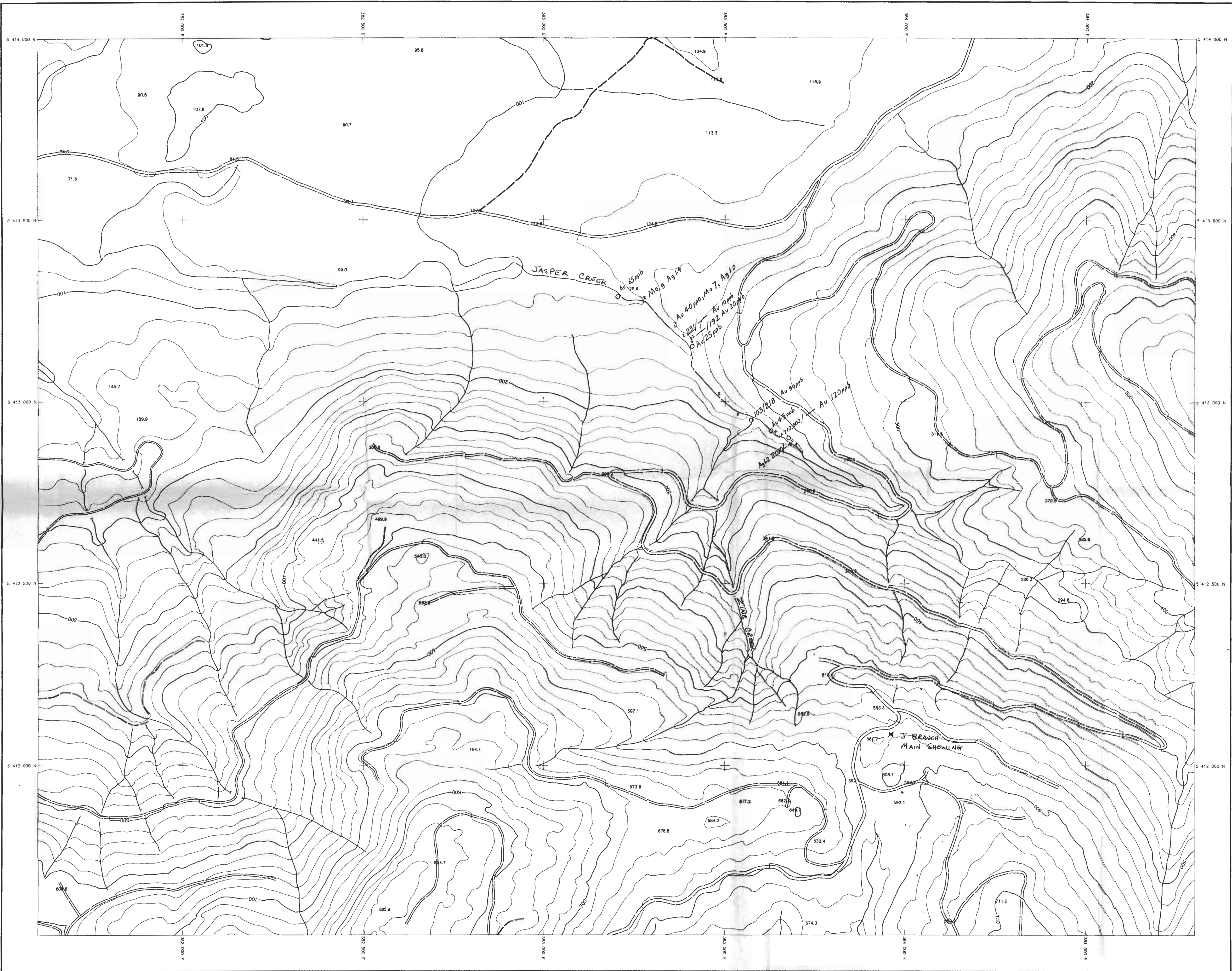
**24,716**

<b>INSPIRATION MINING CORP.</b>
Geology, sheet 3
Scale: 1:2,500
July, 1996 Figure 15
OPERATOR: ANNEK RESOURCES LTD.

**JASPER PROPERTY**

CONTOUR INTERVAL 10m  
SCALE 1:2500

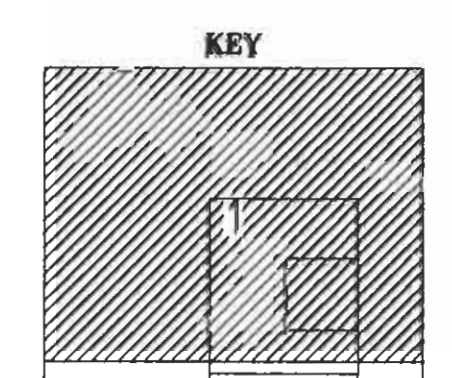




LEGEND	
INDEX CONTOUR	— 25 —
INTERMEDIATE CONTOUR	— — — —
STREAM	— — — —
INTERMITTENT STREAM	— — — —
INDEFINITE STREAM	— — — —
SPOT HEIGHT	437.5



LEGEND	
>210/>250 Cu (ppm)/Zn (ppm)	in soil or stream sediment
>55/>1.1 Au (ppb)/Ag (ppm)	in soil or stream sediment
>5/>15 Mo (ppm)/Pb (ppm)	in soil or stream sediment



GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

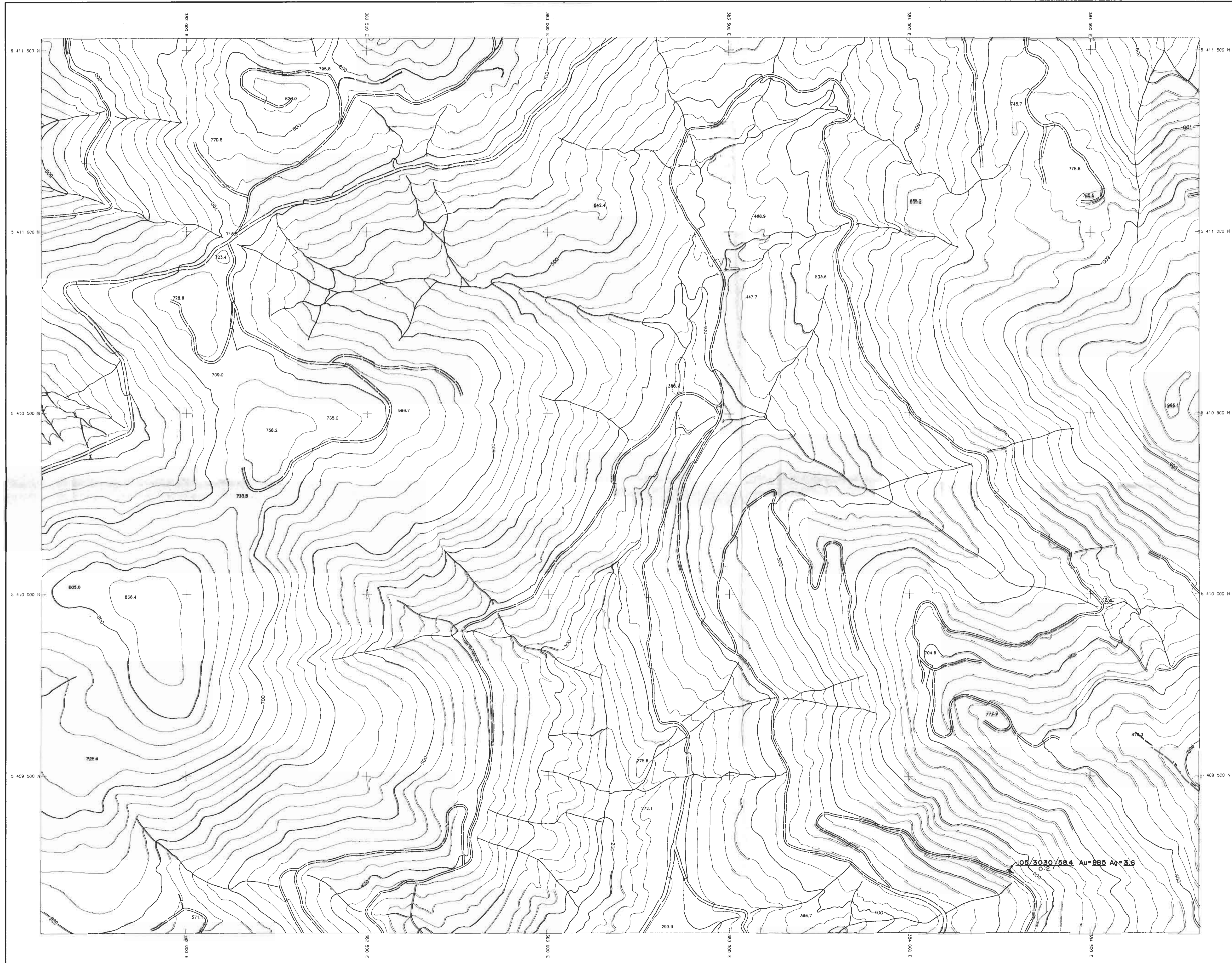
**24,716**

INSPIRATION MINING CORP.	
Geochemistry, Sheet 1	
Anomalous Results	
Scale: 1:5,000	
July, 1996	Figure 16
OPERATOR: ARNOLD RESOURCES LTD.	

**JASPER PROPERTY**

CONTOUR INTERVAL 20 m  
SCALE 1:5000

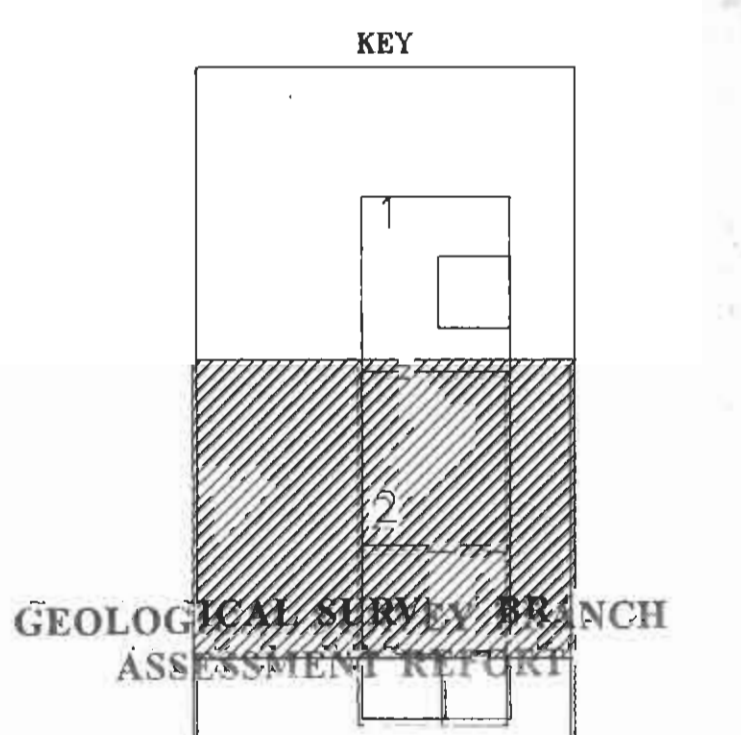




INDEX CONTOUR	25
INTERMEDIATE CONTOUR	
STREAM	
PERMITTING STREAM	
INDEFINITE STREAM	
SPOT HEIGHT	457.5



>210/>260 Cu (ppm)/Zn (ppm) in soil or stream sediment
>85/>1.1 Au (ppb)/Ag (ppm) in soil or stream sediment
>5/>45 Mo (ppm)/Pb (ppm) in soil or stream sediment



GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

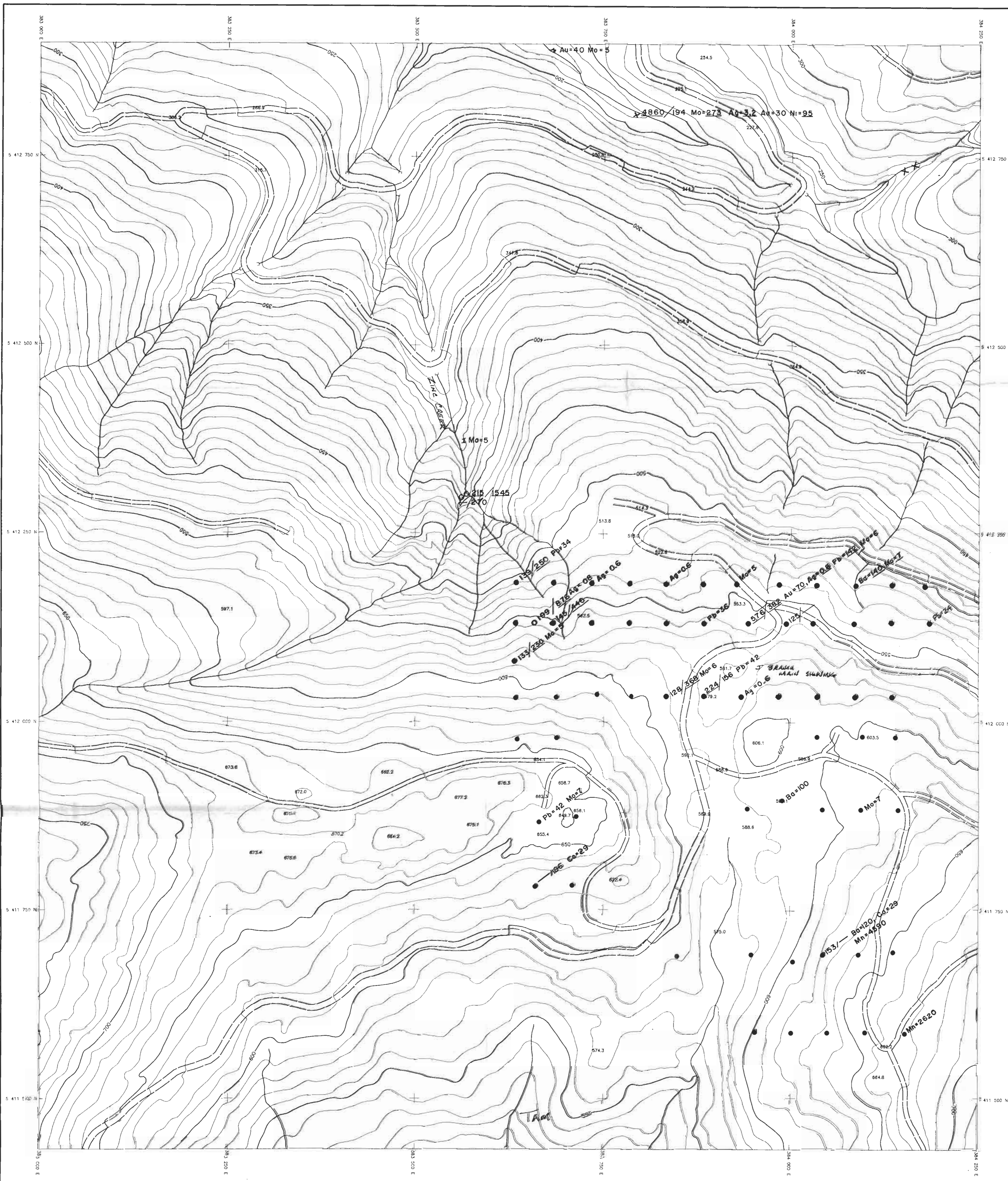
**24,716**

<b>INSITUATION MINING CORP.</b>	
Geochemistry, Sheet 2	
Anomalous Results	
Scale: 1:5,000	
July, 1996	Figure 17
OPERATOR: ARNEX RESOURCES LTD.	

**JASPER PROPERTY**

CONTOUR INTERVAL 20m  
SCALE 1:5000

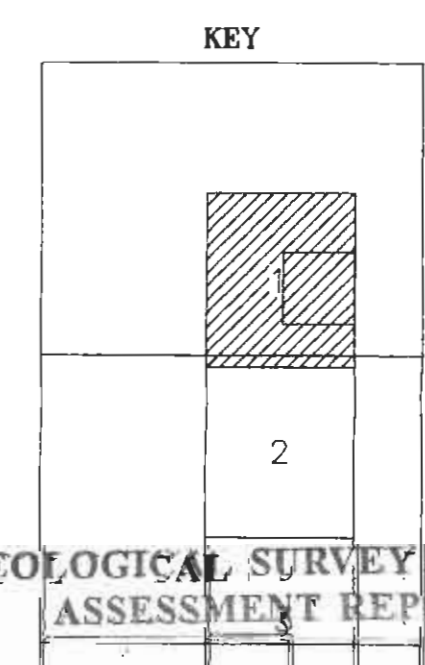




LEGEND	
INDEX CONTOUR	25
INTERMEDIATE CONTOUR	
STREAM	
INTERMITTENT STREAM	
INFINITE STREAM	
SPOT HEIGHT	437.8



LEGEND	
>210/>260 Cu (ppm)/Zn (ppm)	in soil or stream sediment
>55/>1.1 Au (ppb)/Ag (ppm)	in soil or stream sediment
>5/>45 Mo (ppm)/Pb (ppm)	in soil or stream sediment



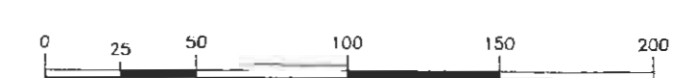
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ASSESSMENT REPORT

24,716

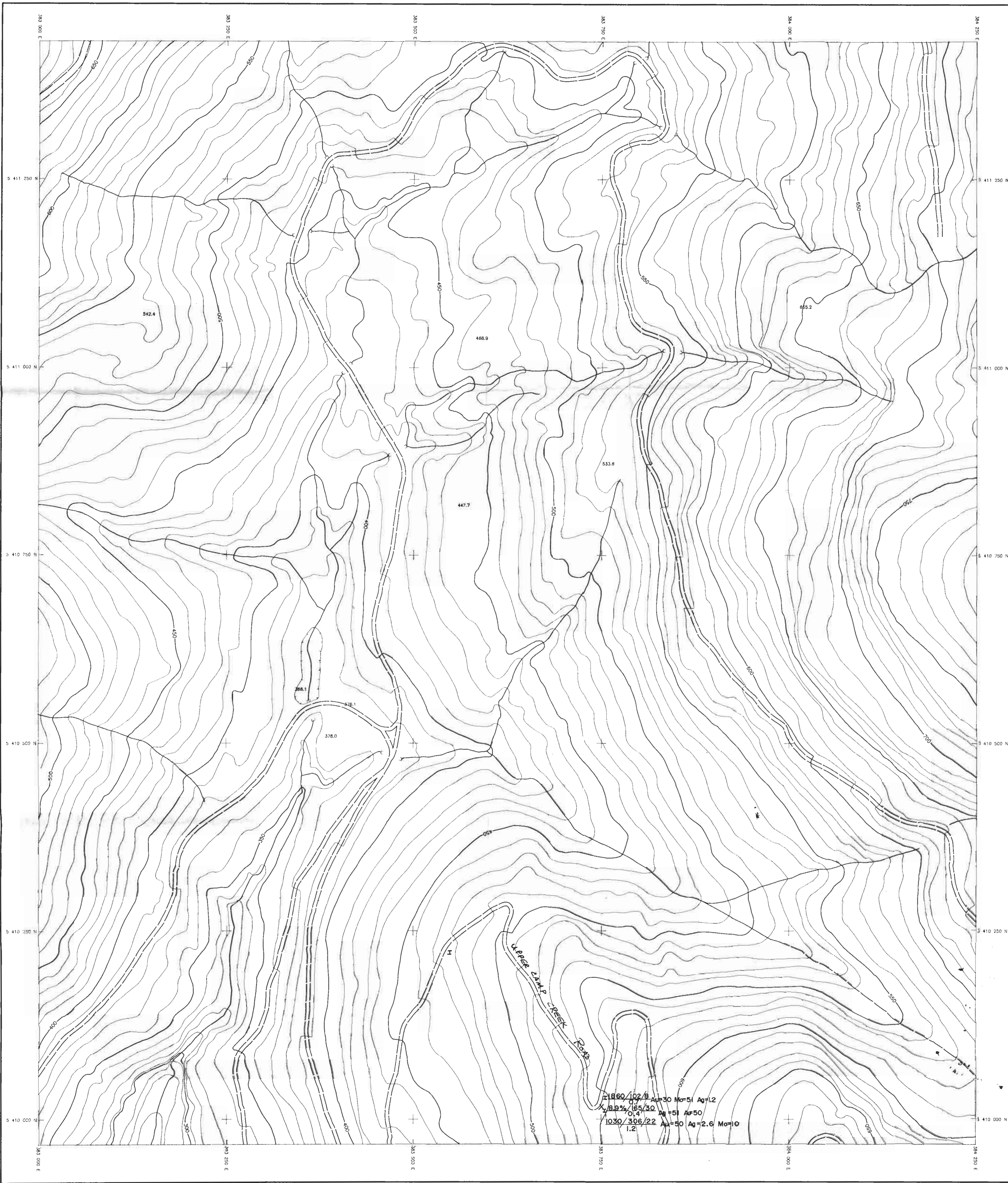
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Geochemistry, Sheet 1
Anomalous Results
Scale: 1:2,500
July, 1996 Figure 16
OPERATOR: ADNER RESOURCES LTD.

JASPER PROPERTY

CONTOUR INTERVAL 10m  
SCALE 1:2500





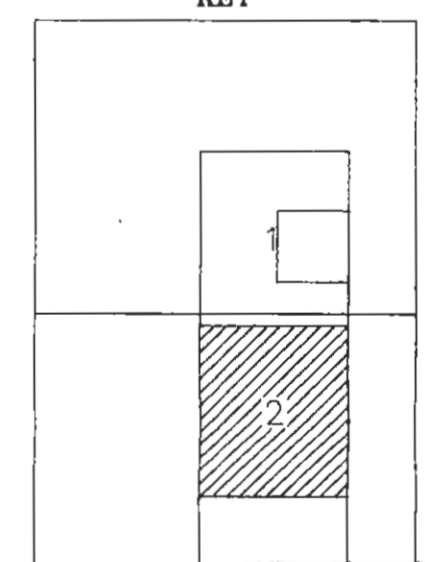


LEGEND	
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INTERMEDIATE CONTOUR	— — — —
STREAM	— — — —
INTERMITTENT STREAM	— — — —
INDEFINITE STREAM	— — — —
SPOT HEIGHT	437.5



LEGEND	
>210/>260 Cu (ppm)/Zn (ppm)	in soil or stream sediment
>55/>1.1 Au (ppb)/Ag (ppm)	in soil or stream sediment
>5/>45 Mo (ppm)/Pb (ppm)	in soil or stream sediment

KEY



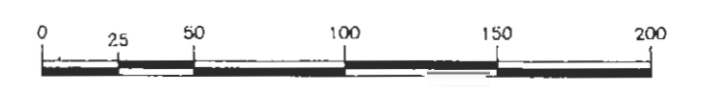
GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

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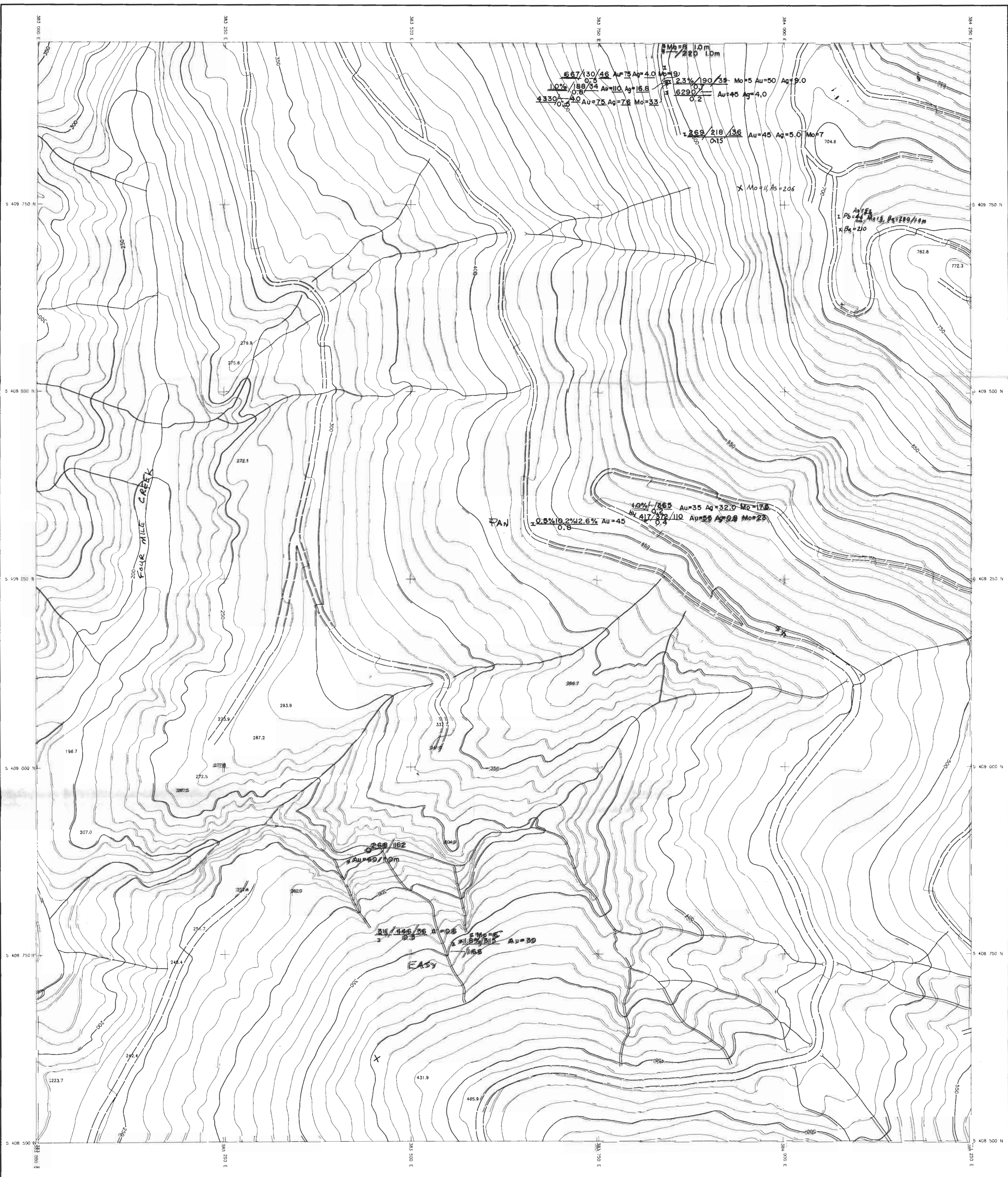
INSPIRATION MINING CORP.	
Geochemistry, Sheet 2	
Anomalous Results	
Scale: 1:2,500	
July, 1996	Figure 19
OPERATOR: ARNEY RESOURCES LTD.	

**JASPER PROPERTY**

CONTOUR INTERVAL 10m  
SCALE 1:2500



1960/102/6 Au=30 Mo=51 Ag=1.2  
 8.8% / 65/30 Au=51 Ag=50  
 1030/396/22 Au=50 Ag=2.6 Mo=10  
 1.2



LEGEND	
INDEX CONTOUR	25
INTERMEDIATE CONTOUR	
STREAM	
INTERMITTENT STREAM	
INDEFINITE STREAM	
SPOT HEIGHT	437.5

LEGEND	
>210/>260 Cu (ppm)/Zn (ppm)	in soil or stream sediment
>55/>1.1 Au (ppb)/Ag (ppm)	in soil or stream sediment
>5/>45 Mo (ppm)/Pb (ppm)	in soil or stream sediment

KEY

2

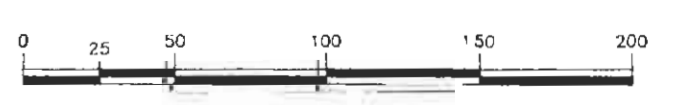
GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

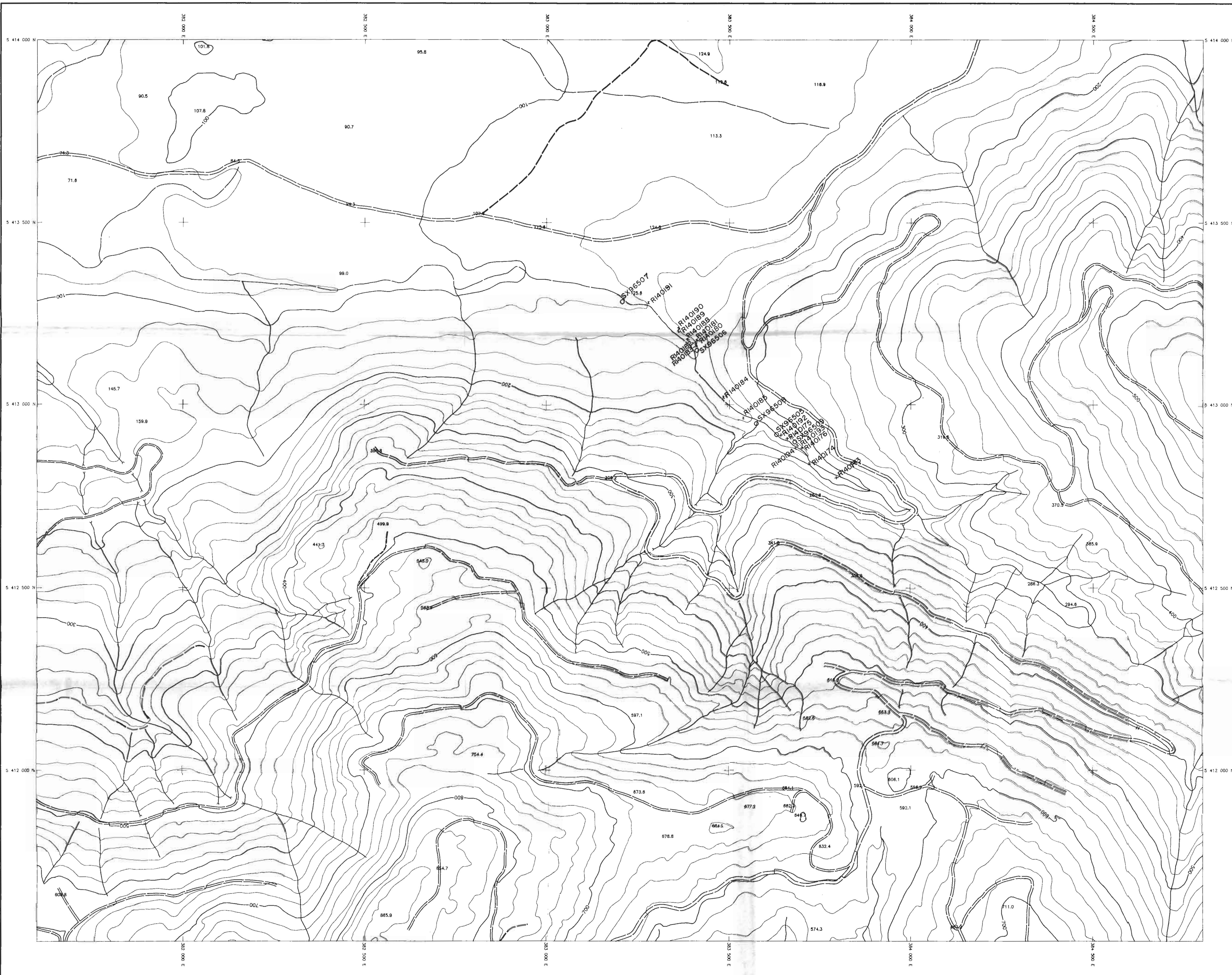
# 24,716

INSPIRATION MINING CORP.	
Geochemistry, Sheet 3	
Anomalous Results	
Scale: 1:2,500	
July, 1996	Figure 20
OPERATOR: ARNEX RESOURCES LTD.	

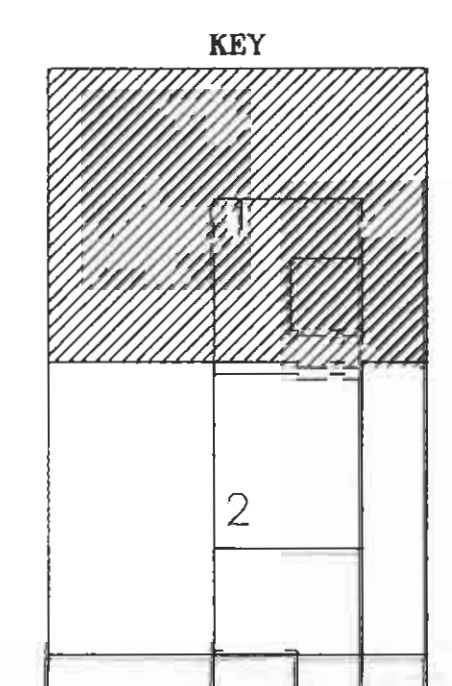
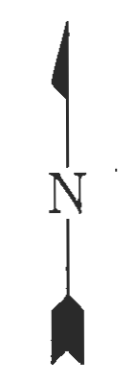
## JASPER PROPERTY

CONTOUR INTERVAL 10 m  
SCALE 1:2500





LEGEND	
INDEX CONTOUR	— 25 —
INTERMEDIATE CONTOUR	— — — —
STREAM	— — — — —
INTERMITTENT STREAM	— — — — —
INDEFINITE STREAM	— — — — —
SPOT HEIGHT	437.5



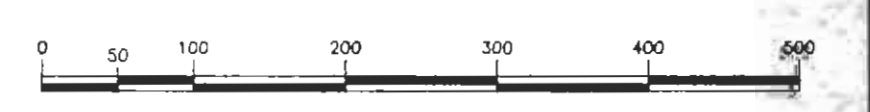
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ASSESSMENT REPORT

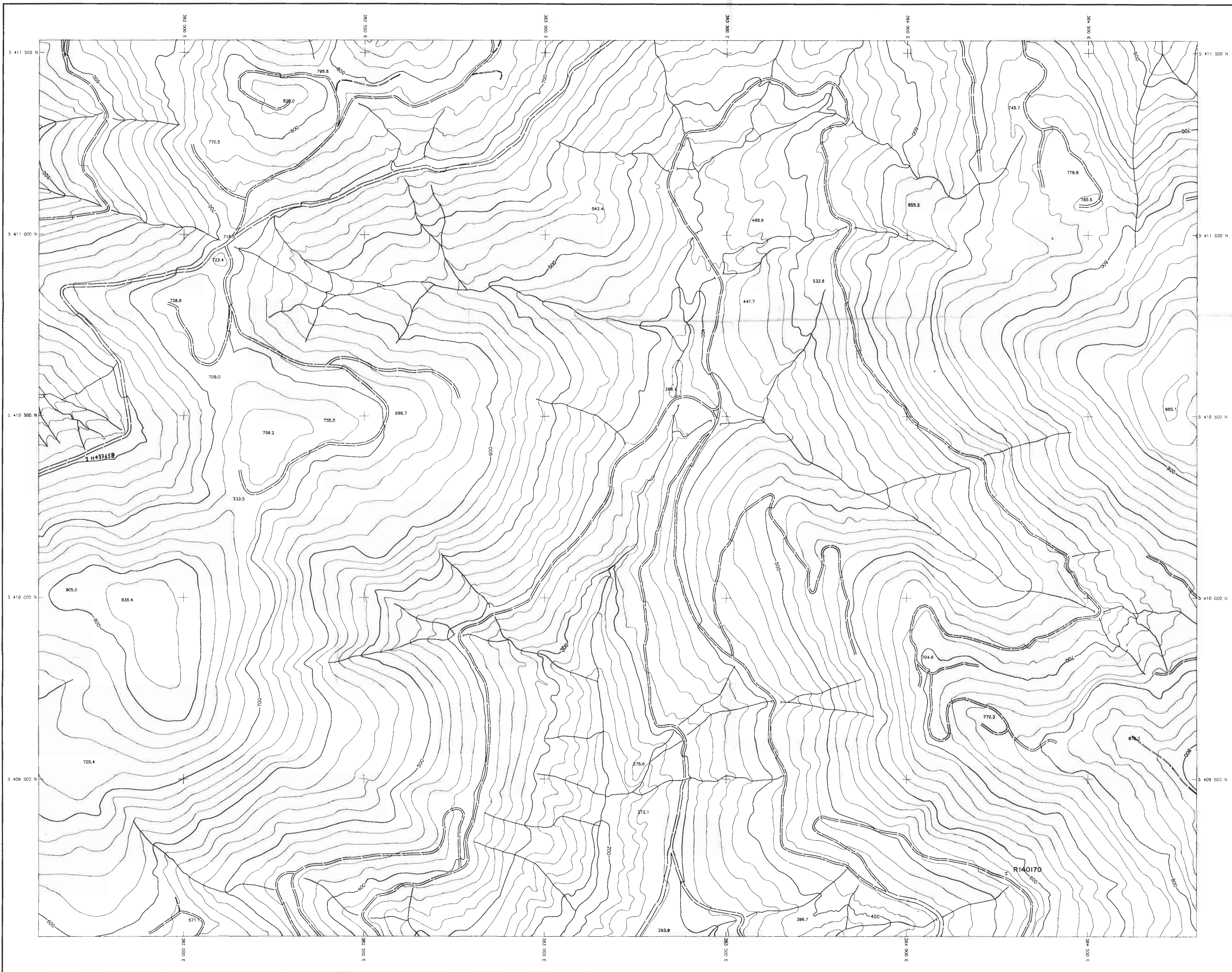
**24716**  
INSPIRATION MINING CORP.  
Geochemistry, Sheet 1

Sample Locations
Scale: 1:5,000
July, 1996 Figure 21
OPERATOR: ARNEZ RESOURCES LTD.

**JASPER PROPERTY**

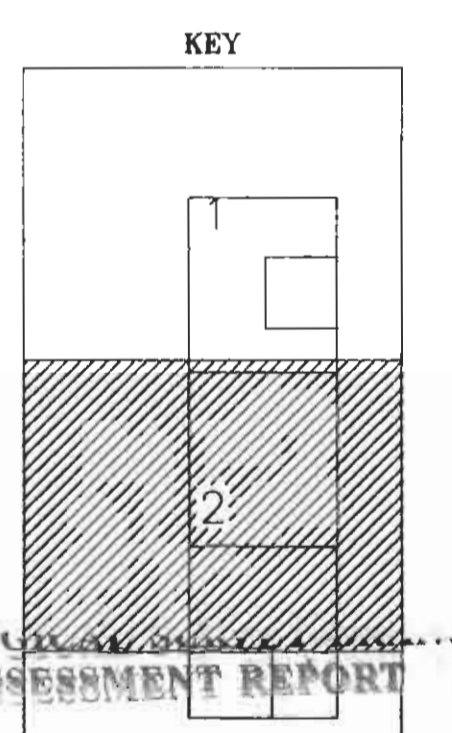
CONTOUR INTERVAL 20m  
SCALE 1:5000



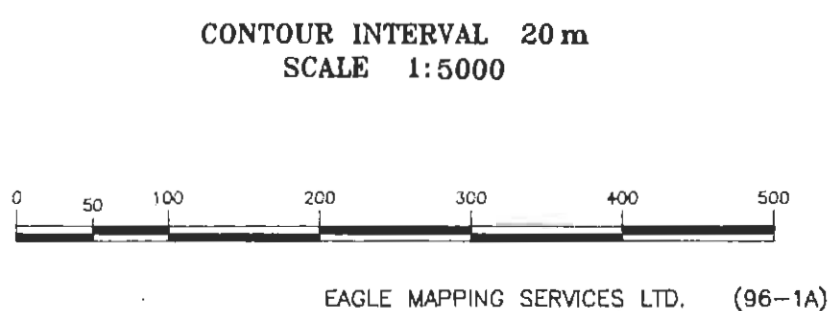


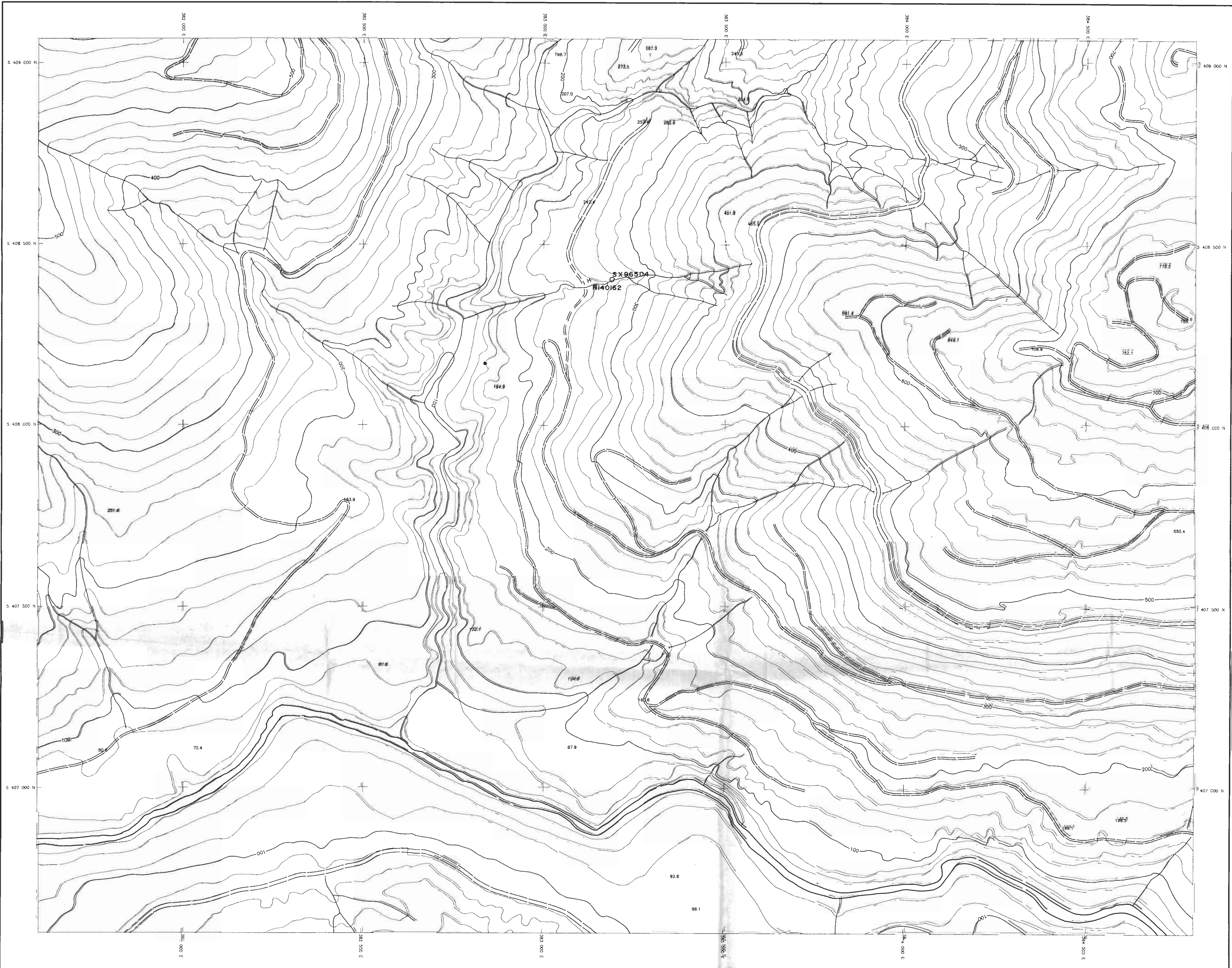
**LEGEND**

INDEX CONTOUR	— 25 —
INTERMEDIATE CONTOUR	— — — —
STREAM	— — — —
INTERMITTENT STREAM	— — — —
INDEFINITE STREAM	— — — —
SPOT HEIGHT	437.5

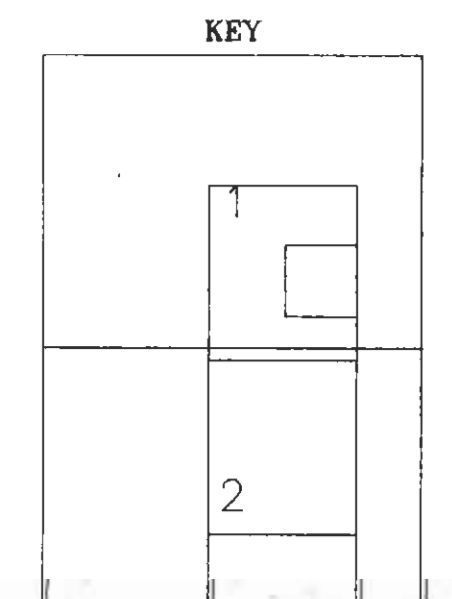


GEOLOGICAL SERVICES  
 ASSESSMENT REPORT  
**24,716**  
 INSPIRATION MINING CORP.  
 Geochemistry, Sheet 2  
 Sample Locations  
 Scale: 1:5,000  
 July, 1996 Figure 22  
 OPERATOR: ARNEX RESOURCES LTD.  
**JASPER PROPERTY**





LEGEND	
INDEX CONTOUR	--- 25 ---
INTERMEDIATE CONTOUR	-----
STREAM	~~~~~
INTERMITTENT STREAM	- - - - -
INDEFINITE STREAM	~~~~~
SPOT HEIGHT	437.0



GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

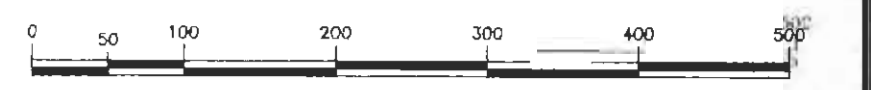
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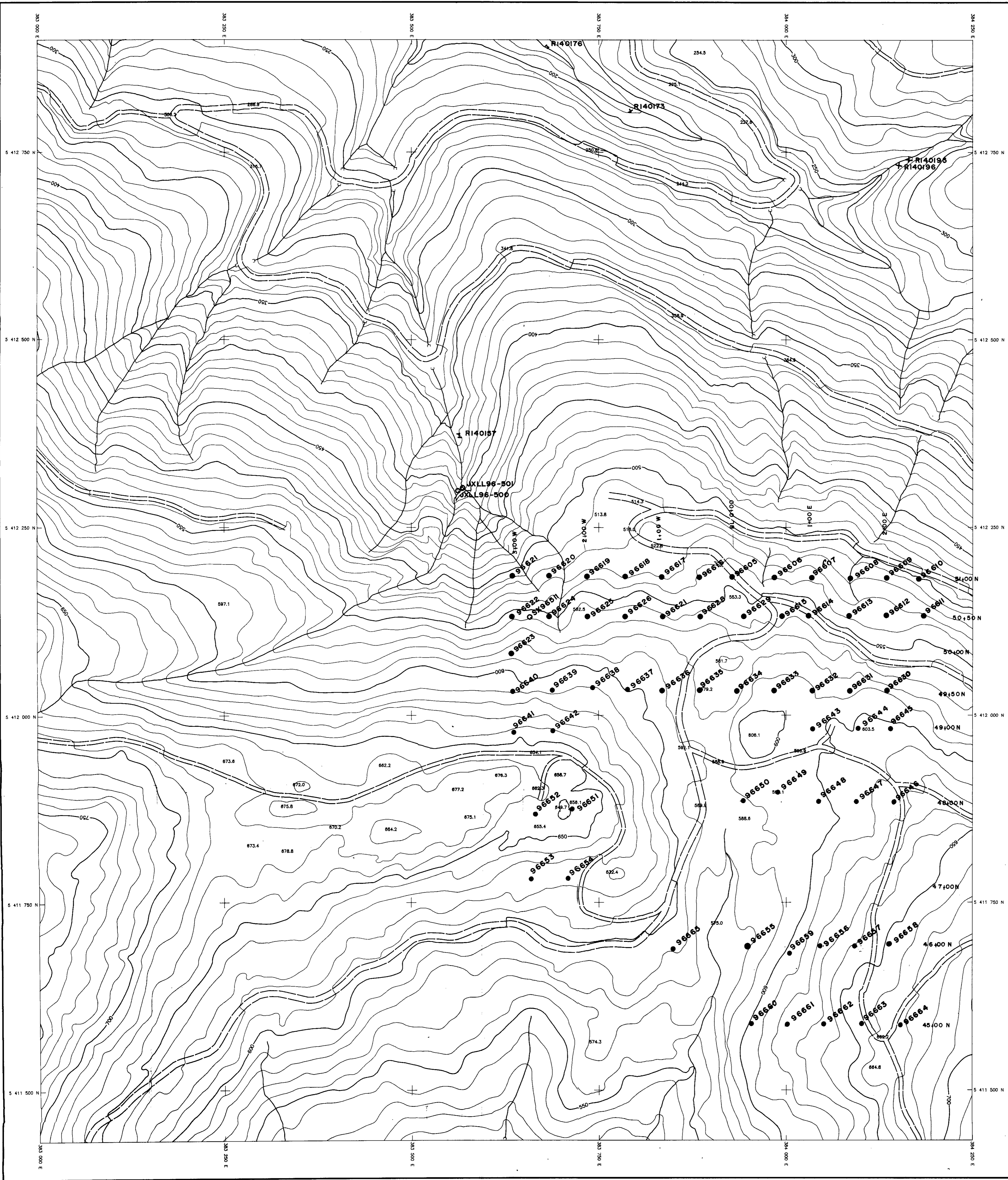
INS. LOCATION MINTEL CORP.

Geochemistry, Sheet 3
Sample Locations
Scale: 1:5,000
July, 1996 Figure 13
OPERATOR: ARDEX RESOURCES LTD.

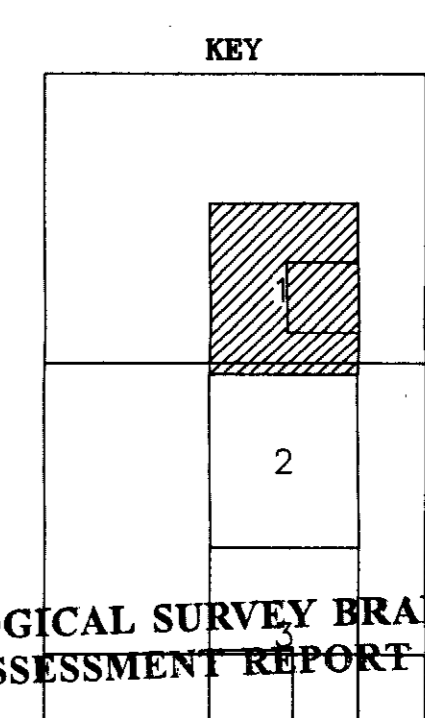
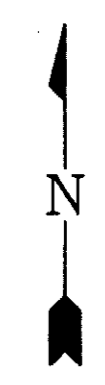
**JASPER PROPERTY**

CONTOUR INTERVAL 20 m  
SCALE 1:5000





LEGEND	
INDEX CONTOUR	25
INTERMEDIATE CONTOUR	
STREAM	
INTERMITTENT STREAM	
INDEFINITE STREAM	
SPOT HEIGHT	437.5



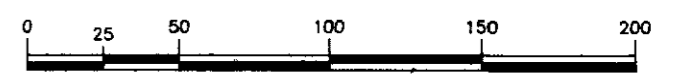
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ASSESSMENT REPORT

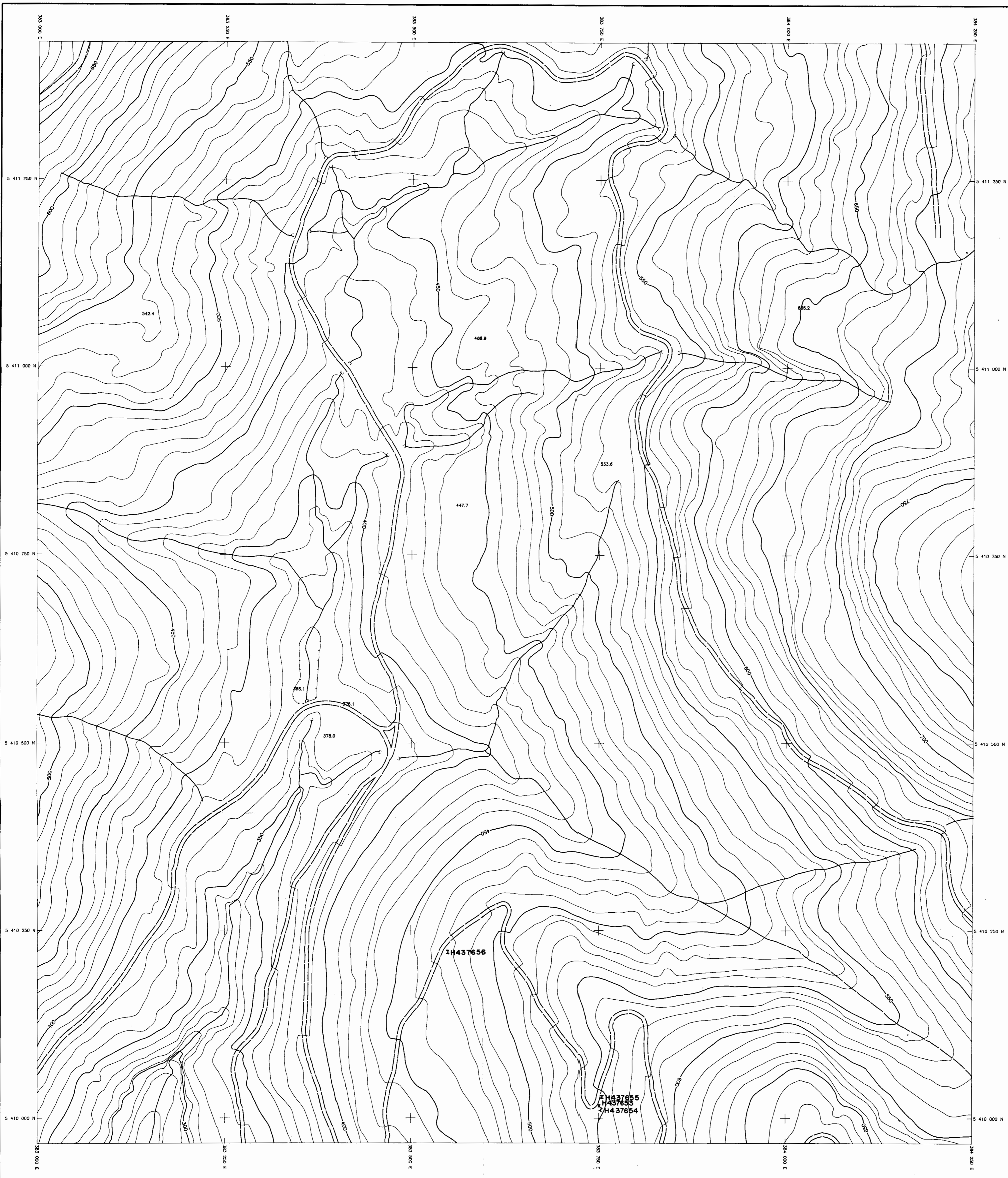
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INSPIRATION MINING CORP.
Geochemistry, Sheet 1
Sample Locations
Scale: 1:2,500
July, 1996 Figure 24
Copyright: Inspiration Mining Corp.

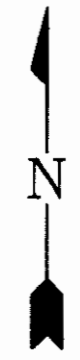
**JASPER PROPERTY**

CONTOUR INTERVAL 10m  
SCALE 1:2500

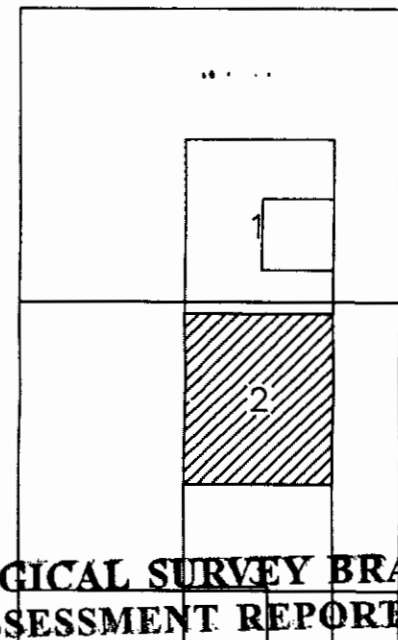




LEGEND	
INDEX CONTOUR	— 25 —
INTERMEDIATE CONTOUR	— — —
STREAM	— — — — —
INTERMITTANT STREAM	— — — — —
INDEFINITE STREAM	— — — — —
SPOT HEIGHT	— 437.5



KEY



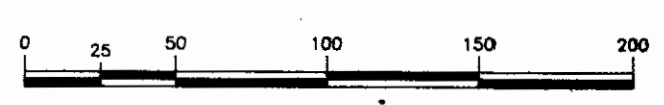
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ASSESSMENT REPORT

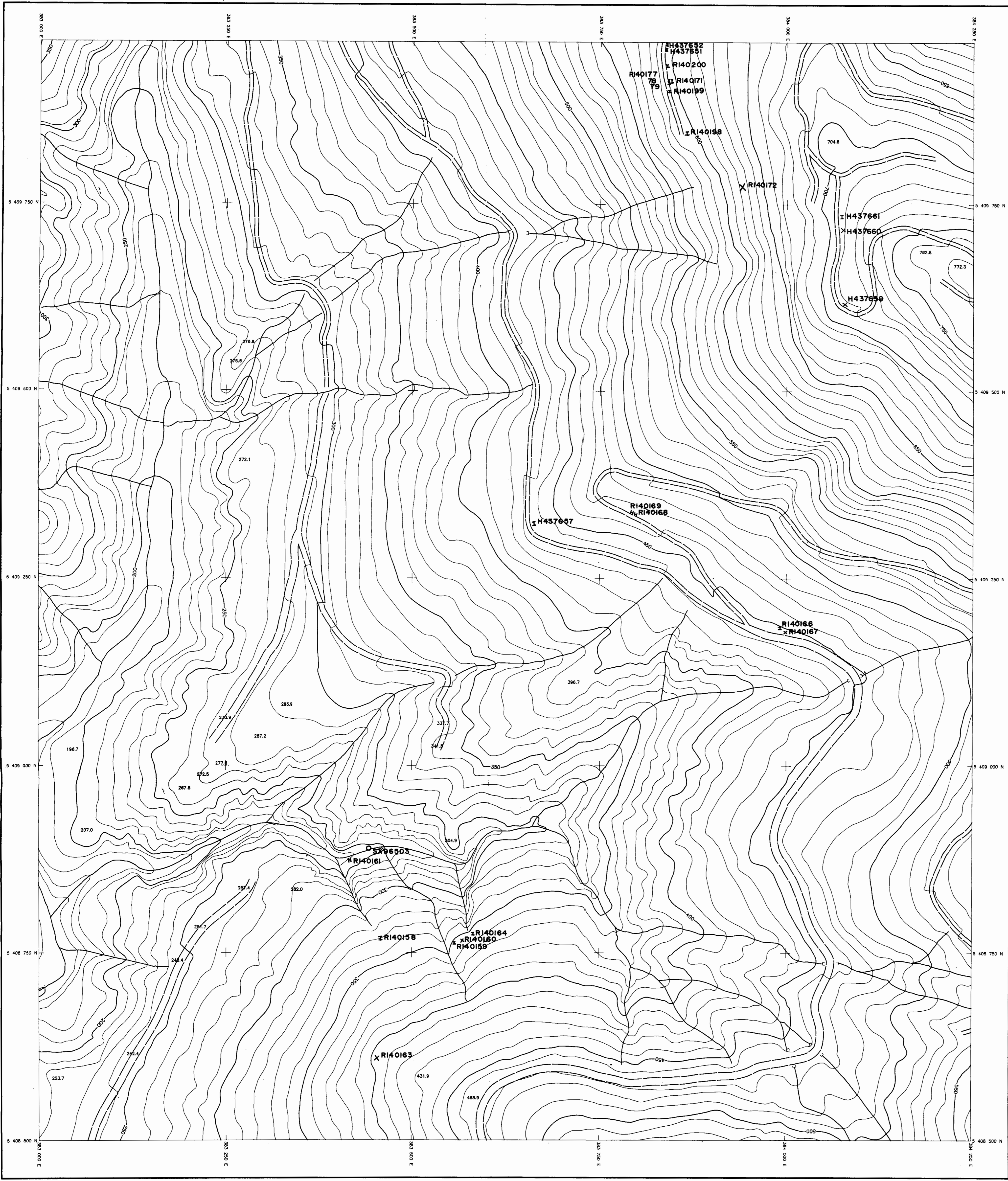
**24,716**

INSPIRATION MINING CORP.
Geochemistry, Sheet 2
Sample Locations
Scale: 1:2,500
July, 1996 Figure 25
OPERATOR: ARTEL ASSOCIATES LTD.

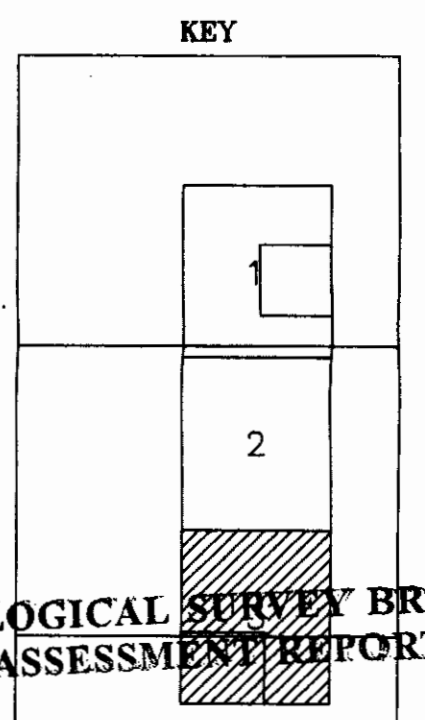
**JASPER PROPERTY**

CONTOUR INTERVAL 10m  
SCALE 1:2500





LEGEND	
INDEX CONTOUR	— 25 —
INTERMEDIATE CONTOUR	— — — — —
STREAM	— — — — —
INTERMITTENT STREAM	- - - - -
INDEFINITE STREAM	— — — — —
SPOT HEIGHT	437.5



GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

# 24,716

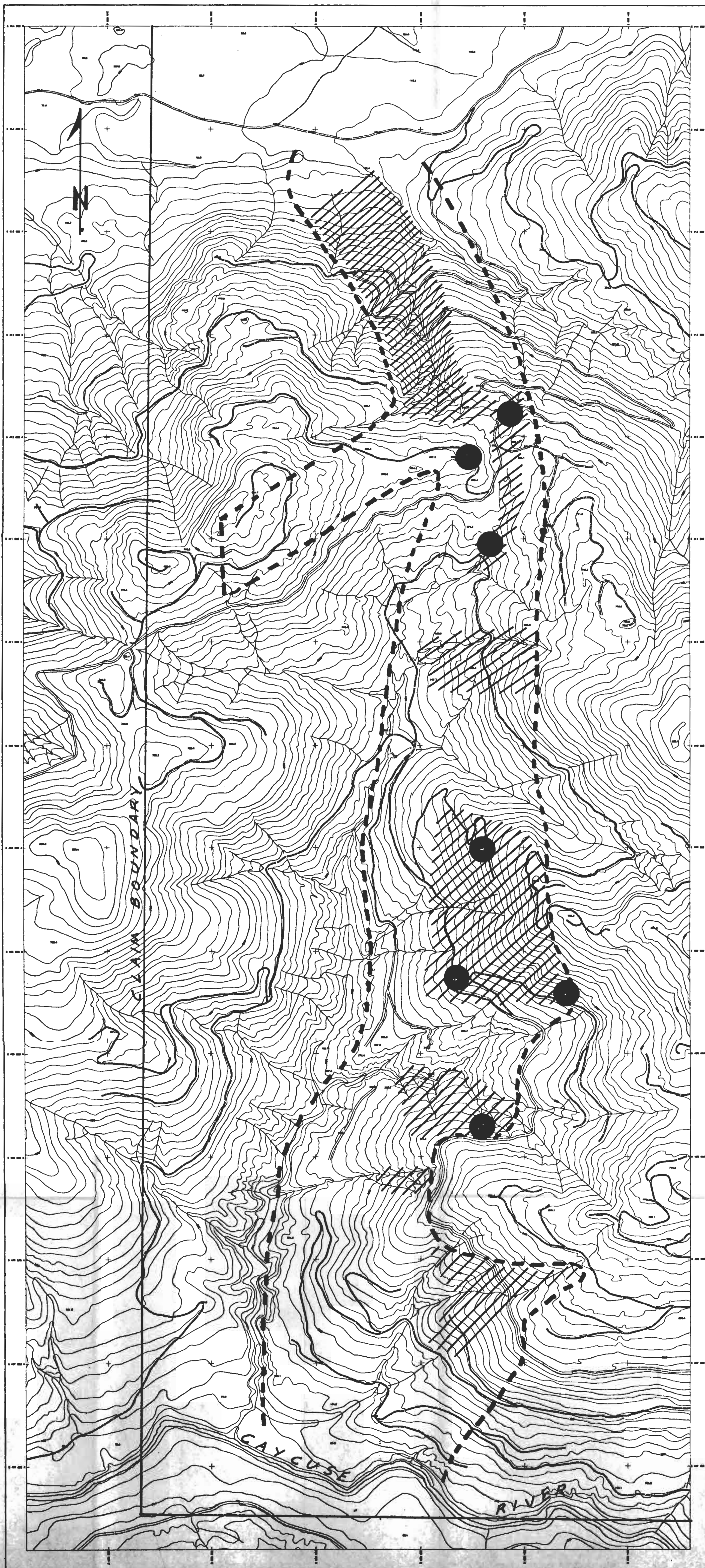
INSPIRATION MINING CORP.	
Geochemistry, Sheet 3	
Sample Locations	
Scale: 1:2,500	
July, 1996	Figure 26
OPERATOR: ARNEI RESOURCES LTD.	

**JASPER PROPERTY**

CONTOUR INTERVAL 10m  
SCALE 1:2500







INDICATES GENERAL AREA OF STRONG HYDROTHERMAL ALTERATION AND PYRITIZATION

HATCHING INDICATES AREAS OF SOIL, SILT AND ROCK BASE METAL GEOCHEMICAL ANOMALIES

ZINC CREEK Soil Anomalies:  
(ppm) Cu to 840, Zn to 1240, Pb to 213, Au to 1200 ppb.

1 JASPER 1 - SHOWING (MINFILE 092C-080)  
MAIN SHOWING AREA  
>2% Cu, >3% Zn, +Ag / 0.8 to 2.7 m by 44 m

JASPER Soil Anomalies:  
(ppm) Cu to 890, Zn to 390, Pb to 142, Au to 120 ppb

2 GOLD SHOWINGS - QUARTZ BRECCIA VEIN - SILICIFICATION  
chip Au to 0.6 o/t (19 g/tonne), Au soil to 580 ppb

3 TAM 16 SHOWING (MINFILE 092C-081)  
>4% Cu

4 UPPER CAMP SHOWINGS  
8.9% Cu / 0.4 m, 2.6 ppm Ag / 1.1 m

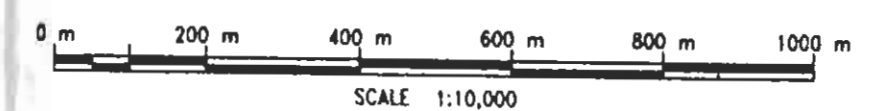
5 PAN ROAD SHOWINGS (MINFILE 092C-088)  
>2% Cu, >22% Zn, >17% Pb / 1.8m

PAN Soil Anomalies:  
(ppm) Cu to 690, Zn to 740, Pb to 106.

7 SHEAR ZONE WITH POLYMETALLIC MINERALIZATION  
Au to 885 ppb, Zn to 3030, Ag to 3.6, Pb to 584 (ppm)

EASY Soil Anomalies:  
(ppm) Cu to 2000, Zn to 640.

6 EASY SHOWINGS (MINFILE 092C-088)  
chip: 5.35% Cu, 8 g/t Ag / 1.1 m



**INSPIRATION MINING CORP.  
COMPILATION MAP OF  
EXPLORATION TARGETS**

**JASPER PROPERTY**

NITINAT AREA, VANCOUVER ISLAND

NTS 092C/15E BCGS 092C/087-088  
GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

MAY 1996

July, 1996  
COMPILED BY OPERATOR: **24,716**

**MAGNETOMETER, VLF-EM,  
HORIZONTAL LOOP EM  
&  
INDUCED POLARIZATION TEST SURVEYS**

on the  
**JASPER PROPERTY**

Victoria Mining Division

N.T.S 92C/15

Prepared for:  
**ARNEX RESOURCES LTD.**

Survey By  
**SJ GEOPHYSICS LTD.**  
11762 - 94<sup>th</sup> Avenue  
Delta, British Columbia  
Canada V4C 3R7

Prepared by:  
Syd Visser, P. Geo.  
S.J.V. Consultants Ltd.

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

June 1996

24,716

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**DATA PRESENTATION** ..... 2

**INTERPRETATION** ..... 4

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HLEM ..... 4

INDUCED POLARIZATION ..... 5

**RECOMMENDATIONS** ..... 5

**CONCLUSION** ..... 5

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## **INTRODUCTION**

Magnetic, very low frequency electromagnetic (VLF-EM), Horizontal Loop EM, and Induced Polarization (IP) test surveys were completed on the Jasper Property for Arnex Resources Ltd. by SJ Geophysics Ltd.. The Jasper Property is located 12km south west of Cowichan Lake in the Victoria Mining Division of B.C., NTS 92C/15

The purpose of the test surveys was to aid in the mapping of local geology and to search for possible massive sulphide mineralization. The IP was performed to search for a possible disseminated sulphide halo surrounding the massive sulphide showing.

This report is meant to be an addendum to a more complete property and geological report prepared by Arnex Resources Ltd. personnel therefore location maps and overview of the geology are omitted from this report.

## **FIELD WORK AND INSTRUMENTATION**

The Magnetometer, VLF-EM survey, and Horizontal Loop EM (HLEM) test surveys were completed during the period December 17 - 22, 1995, which comprised of 4 data acquisition days and 2 mob/demob days. The geophysical crew consisted of Zoran Dujakovic (Geophysicist) and André Savard. Data acquisition, field processing and presentation were performed by Zoran Dujakovic (Geophysicist). The HLEM was tested on one short line but the bush was considered to be too dense to collect reliable data. It was decided to cut lines in the spring and complete the survey.

An EDA OMNI PLUS combined proton precession magnetometer and VLF-EM system were used for field data acquisition. An EDA OMNI IV proton precession magnetometer was used as a base station which recorded data in thirty second intervals. The VLF-EM survey used a signal from Seattle (24.8 kHz, NLK) and Hawaii (23.4 kHz, NPM). The VLF-EM data was acquired facing north-east.

The HLEM equipment used for the survey was an Apex Parametrics MaxMin I-10 using a 100m and 50m coil separation with the frequencies shown on the plots.

A HLEM survey and possible IP survey were attempted in February 1996. The survey commenced on February 21 and was cancelled on February 26. This included 3 mob days and 2 survey days. It started snowing the day the crew arrived on the job site and it was decided after two days that it was not viable to continue. Enough HLEM data was collected to determine if the survey using a 100m coil separation worked.

The HLEM equipment used for the survey was an Apex Parametrics MaxMin I-9 using a 100m and 50m coil separation with the frequencies shown on the plots.

An Induced Polarization surveying was performed, using 25 metre long dipoles, along 25 metre spaced, flagged lines during the period of April 28 to May 5, 1996. This period included 2 mob days, 1 breakdown day and 4 survey days. The crew drove into the area via logging roads from west of Duncan and stayed in tents and campers near the property.

The equipment used for the IP survey was a VP3000 time domain transmitter, with a cycle time of 2 seconds on and 2 seconds off, and an Androtex time domain receiver. The delay time of the receiver was set at 80, 80, 80, 80, 160, 160, 160, 320, 320 and 320 millisecond each. A pole-dipole array with an "a" spacing of 25m along with an N=1 to 6 was used for the survey. The apparent resistivity was calculated using the recorded transmitter current and the nominal dipole spacing (25 metres) at each measurement location.

All the data was down loaded to a computer in the evening. The chargeability, for time windows 3 and 6, and the calculated apparent resistivity were plotted as pseudosections, on a colour dot matrix printer. The results were discussed in the field with the project geologist.

The data was re-plotted on a colour inkjet plotter in Vancouver for final presentation and interpretation.

## DATA PRESENTATION

The IP chargeability time channels 3 and 6 along with the apparent resistivity of the data are presented as 3 pseudosections in appendix II. The filtered IP plan maps pseudosections of total chargeability and apparent resistivity, the magnetic, VLF-EM, HLEM data and compilation map are presented on the following plates:

**TABLE 1 list of plates**

December 1995

Plate G1A	Total Field Magnetics Profiles	
Plate G1B	Total Field Magnetics Colour Contours	

Plate G2A	VLF-EM Profiles Laulalei, NPM 23.4 kHz	
Plate G2B	Fraser Filtered Dip Angle Lualualei, NPM 3.4 kHz	
Plate G3B	VLF-EM Profiles Seattle, NLK 24. KHz	
Plate G4A	Compilation Map	

February 1996

Plate G5A	HLEM Survey In Phase Component	
Plate G5B	HLEM Survey Quadrature Component	

May 1996

Plate G6A	HLEM Survey In Phase Component	
Plate G6B	HLEM Survey Quadrature Component	
Plate G7A	Induced Polarization Survey Chargeability M3, N=3	
Plate G7B	Induced Polarization Survey Apparent Resistivity N3	
Line 5050N	Induced Polarization Survey Pseudosection	
Line 5000N	Induced Polarization Survey Pseudosection	
Line 4950N	Induced Polarization Survey Pseudosection	
Plate G8	HLEM and IP Survey Compilation Map	

## **INTERPRETATION**

The magnetics and VLF-EM were surveyed on 7 lines covering approximately 500m of strike length. The HLEM and IP were only surveyed on three lines for a strike length of 100m. Therefore the compilation is broken into two separate maps with the magnetic and VLF-EM compilation shown on Plate G4 and the HLEM and IP compilation shown on Plate G8.

### **MAGNETICS and VLF-EM**

The total magnetic variation in the survey area is approximately 100nT. The baseline appears to mark a sharp contact in the rock type with the majority of the variation in the magnetic intensity being east of the baseline. The exception is open magnetic anomaly on the western end of line 4700N.

A weak magnetic anomaly appears to follow the baseline from 4700N to 4900N where it appears to merge with the stronger and more distinct anomaly approximately 25m to 50m to the east. There are a number of parallel anomalies to the east of this main structure.

There are a number of weak and medium strength VLF-EM anomalies as shown on the compilation map. None of the anomalies are very distinct which may be due to the poor direction to both VLF-EM stations. The main anomaly appears to be a linear anomaly located approximately 50m to the west of the magnetic contact. A second possibly good anomaly is located on line 5000N at 240E. It is not clear if this is a bad reading or if the sign of the data is reversed. It is very easy to reverse the sign of the data due to the bad angle of Seattle with the grid. This area was not covered by the HLEM due to topography and thick bush.

### **HLEM**

The horizontal loop was completed on three lines before continual snowfall forced us to cancel the remainder of the survey. Because of the bad weather conditions it was impossible to collect proper inphase data. The quality of the quadrature data is very good and indicated that the inphase data is likely not very important. A weak HLEM anomaly is located on line 5000N at the base line. A second weak anomaly is located on the western end of line 5050N.

A short survey over the anomaly on line 5000N was completed in May with a 50m coil separation. The separation showed the centre of the anomaly to be located at

approximately 12.5W. The higher amplitude of the anomaly compared to the 100m coil separation suggests that there is no depth extent to the conductor.

## **INDUCED POLARIZATION**

The IP survey was completed over the same lines as the above HLEM survey. The chargeability background is very low to the east of the baseline which confirmed the change in geology as indicated by the magnetic data.

The highest chargeability anomaly is located at approximately 25W on line 5000N and coincides with the weak HLEM anomaly. The IP also indicates that the depth extent of this anomaly is likely not very deep. The anomaly is located directly to the west of a near surface resistivity high and is associated with a resistivity low. This anomaly does appear to continue weakly to line 4960N and 5000N as does the resistivity high directly to the east of this anomaly.

The anomaly located on the western end of all the lines and especially line 4950N is likely a better anomaly and appears to have better depth extent. Not sufficient data is available to interpret this anomaly

## **RECOMMENDATIONS**

The geophysical data should be compiled with the geological mapping and sampling to enhance the existing geophysical interpretation and to determine which anomalous features are significant, especially the IP anomalies on the western end of the grid, the HLEM anomaly on the western end of line 5050N, and the VLF-EM anomaly on the eastern end of line 5000N. The grid should be extended in these area if the geology is favourable.

It is recommended to use a portable VLF-EM transmitter if any further VLF-EM is done in this area to maximise coupling with the possible conductors.

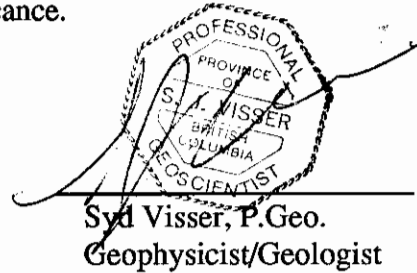
## **CONCLUSION**

The magnetic and IP data indicate that there is a change in the geology from the western half of the survey area to the eastern half. The magnetic susceptibility increases and the background chargeability decreases to the east of the baseline.



There is an HLEM and IP chargeability anomaly located at the baseline on 5000N. Both the HLEM and the IP indicated that the good part of the anomaly has no apparent depth extent or strike length.

The VLF-EM anomaly located on the eastern end of line 5000N and the IP anomalies located on the western end of the survey should be closely correlated to any geological and geochemical data to determine their significance.

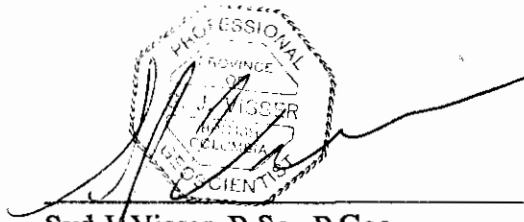


Syd Visser, P. Geo.  
Geophysicist/Geologist

**STATEMENT OF QUALIFICATIONS**

I, Syd J. Visser, of 11762 - 94<sup>th</sup> Avenue, Delta, British Columbia, Canada, hereby certify that:

- 1) I am a professional Geoscientist registered in British Columbia.
- 2) I am a graduate of the University of British Columbia, 1981, where I obtained a B.Sc. (Hon.) Degree in Geophysics and Geology.
- 3) I am a graduate of Haileybury School of Mines, 1971.
- 4) I have been engaged in mining exploration since 1968.



Syd J. Visser, B.Sc., P.Ge.  
Geophysicist/Geologist

## **APPENDIX II**

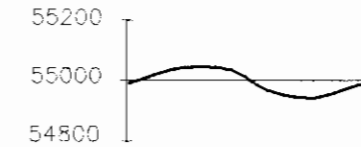
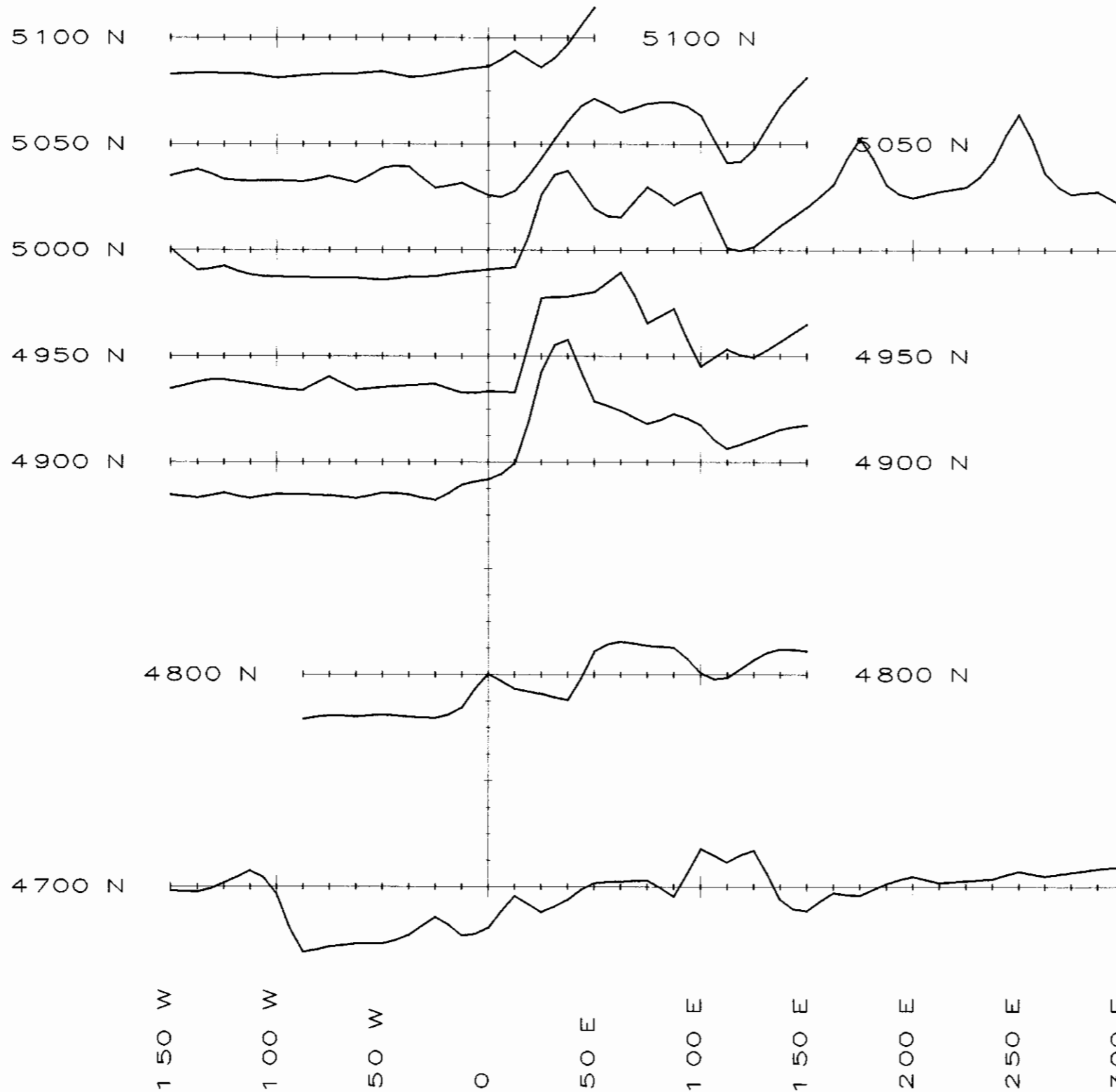
### ***Pseudosections***

1 5 0 W    1 0 0 W    5 0 W    0    5 0 E    1 0 0 E    1 5 0 E    2 0 0 E    2 5 0 E    3 0 0 E

LEGEND

INSTRUMENTATION: BASE UNIT: EDA OMNI IV Proton Magnetometer  
and VLF-EM System

FIELD UNIT: EDA OMNI PLUS Proton Magnetometer  
and VLF-EM System

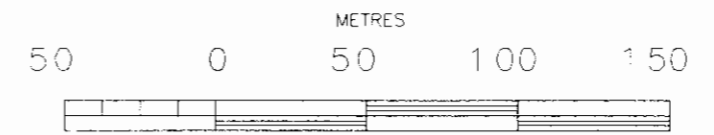


ARNEX RESOURCES LTD.  
JASPER PROPERTY

NTS: 92C/15

Victoria M.D., B.C.

TOTAL FIELD MAGNETICS  
PROFILES

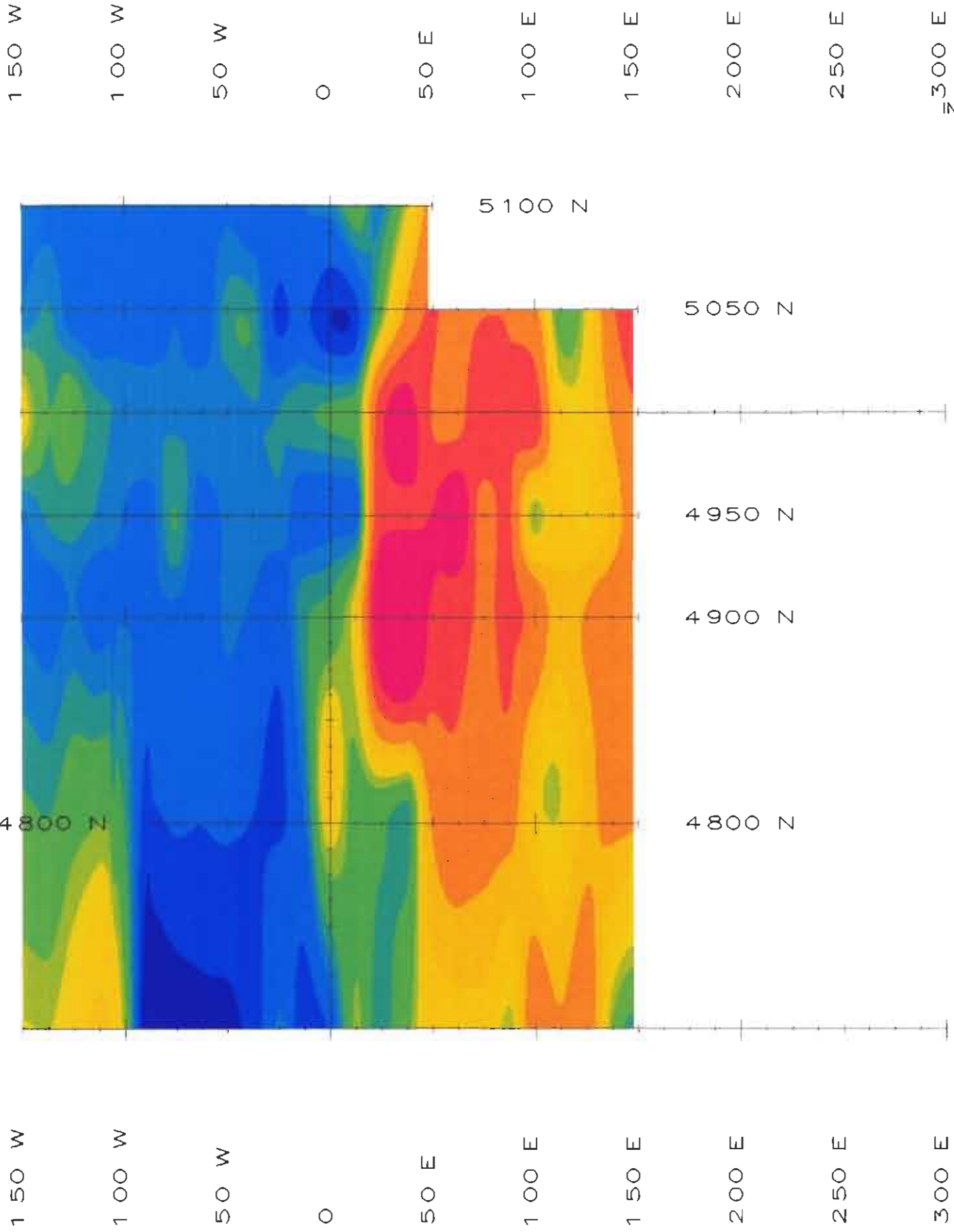


SCALE AS SHOWN

*SJ Geophysics Ltd.*

December 1995

Plate G1a

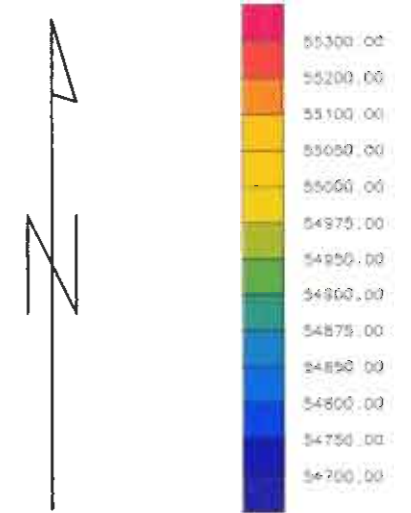


# LEGEND

INSTRUMENTATION: BASE UNIT: EDA OMNI IV Proton Magnetometer  
and VLF-EM System

FIELD UNIT: EDA OMNI PLUS Proton Magnetometer  
and VLF-EM System

MAGNETICS:  
MAXIMUM VALUE: 55641.04 nT  
MINIMUM VALUE: 54691.30 nT



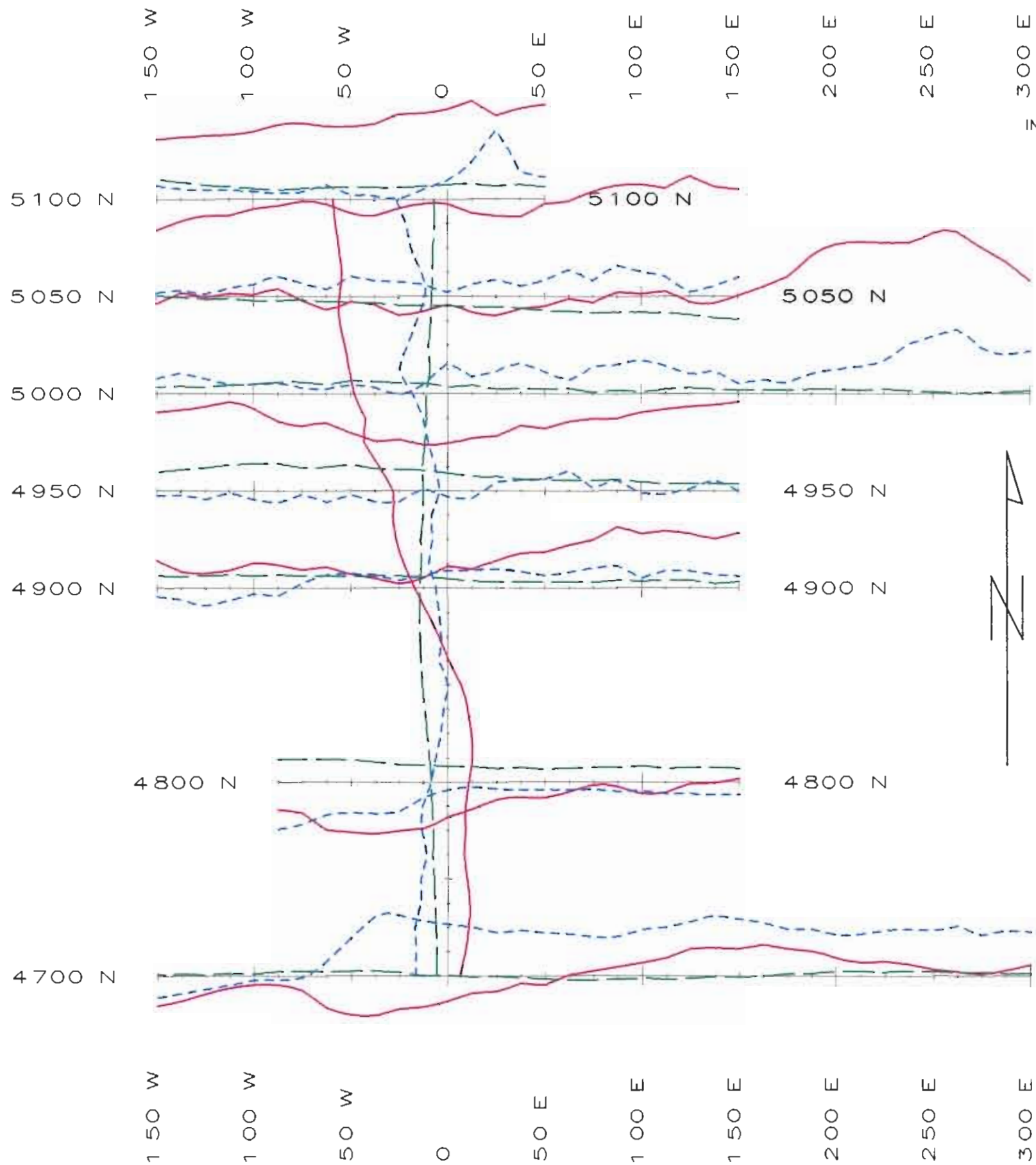
## ARNEX RESOURCES LTD. JASPER PROPERTY

NTS: 92C/15      Victoria M.D., B.C.

## TOTAL FIELD MAGNETICS COLOUR CONTOURS



*SJ Geophysics Ltd.*

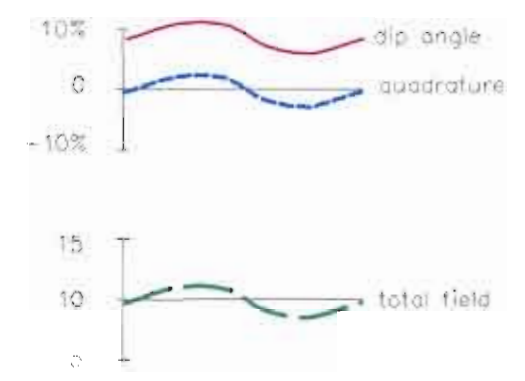


# LEGEND

INSTRUMENTATION: FIELD UNIT: EDA OMNI PLUS Proton Magnetometer and VLF-EM System

PROFILES ARE POSITIVE UP AND TO LEFT

## PROFILES

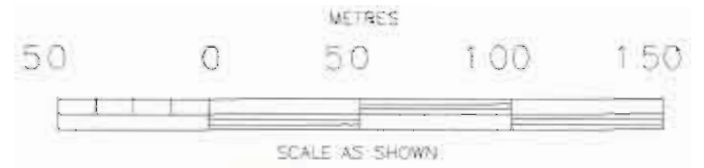


# ARNEX RESOURCES LTD. JASPER PROPERTY

NTS: 92C/15

Victoria M.D., B.C.

## VLF-EM PROFILES LUALUALEI, NPM 23.4 kHz

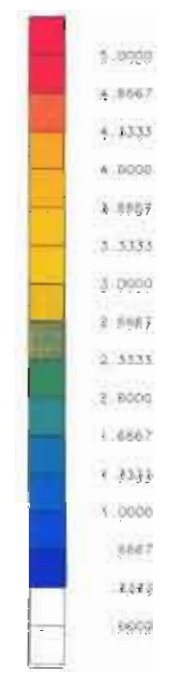
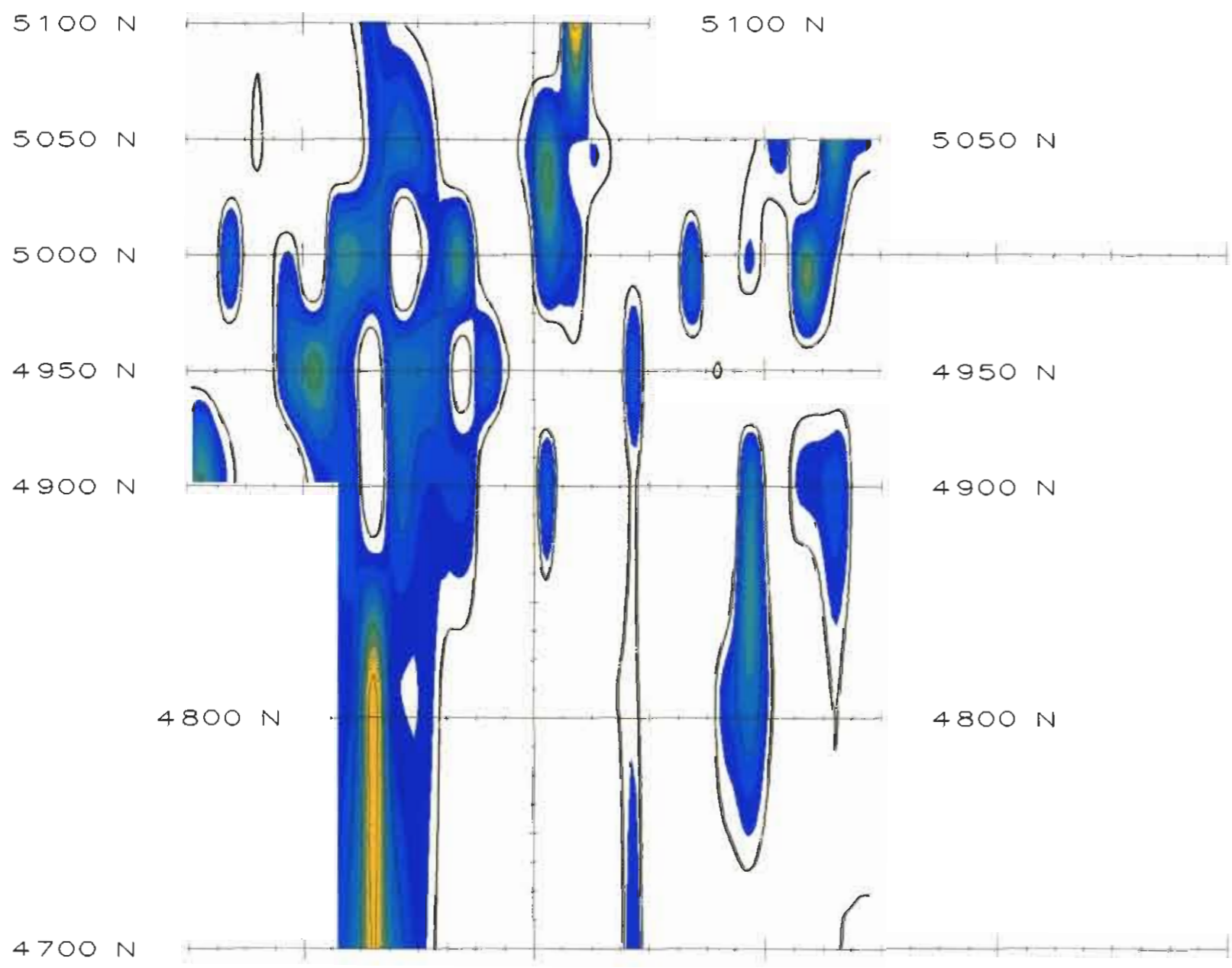


*SJ Geophysics Ltd.*

1 5 0 W    1 0 0 W    5 0 W    0    5 0 E    1 0 0 E    1 5 0 E    2 0 0 E    2 5 0 E    3 0 0 E

LEGEND

INSTRUMENTATION: FIELD UNIT: EDA OMNI PLUS Proton Magnetometer and VLF-EM System



ARNEX RESOURCES LTD.  
**JASPER PROPERTY**

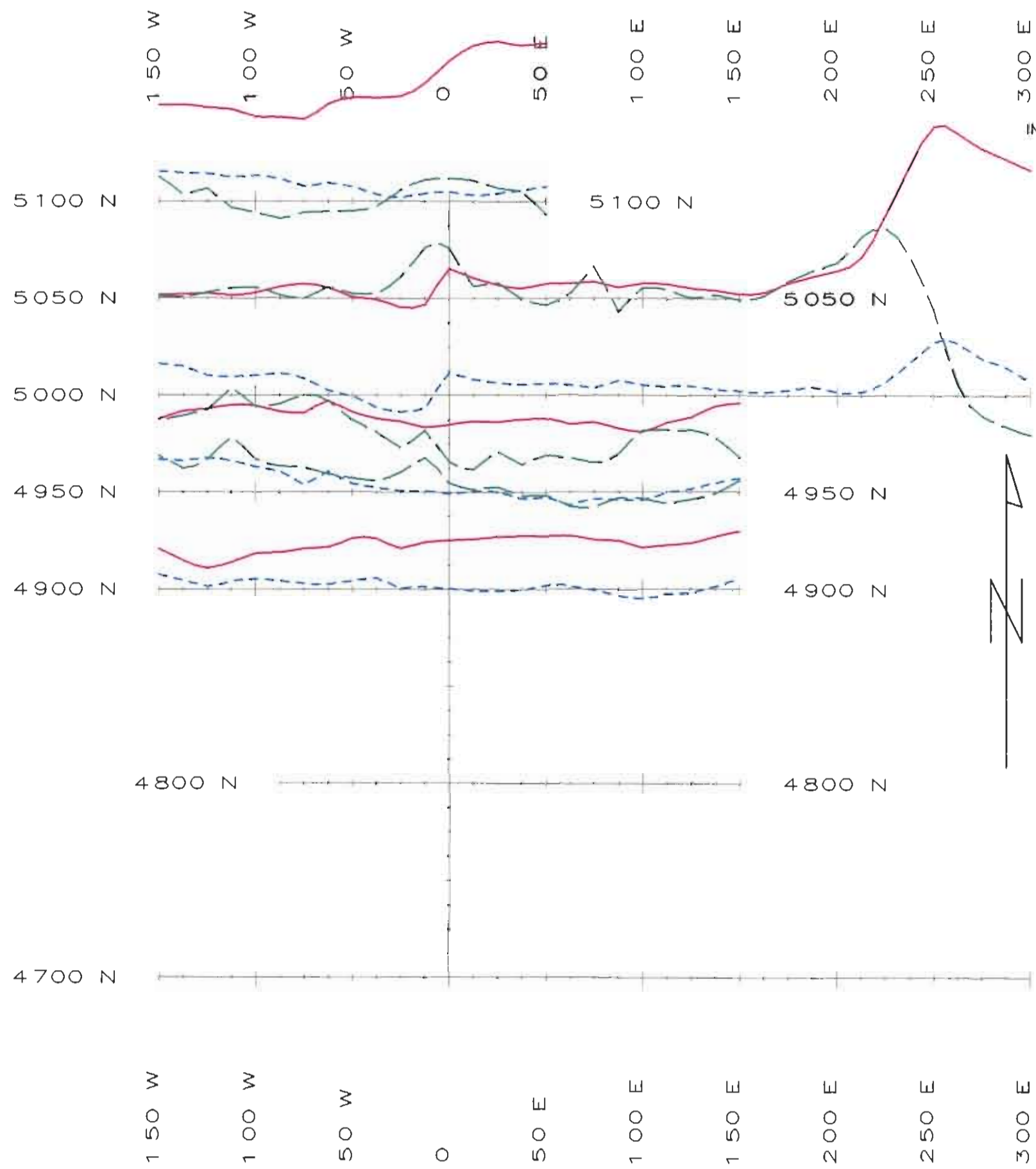
NTS: 92C/15                      Victoria M.D., B.C.

FRASER FILTERED DIP ANGLE  
 LUALUALEI, NPM 23.4 kHz



SCALE AS SHOWN  
*SJ Geophysics Ltd.*

1 5 0 W    1 0 0 W    5 0 W    0    5 0 E    1 0 0 E    1 5 0 E    2 0 0 E    2 5 0 E    3 0 0 E

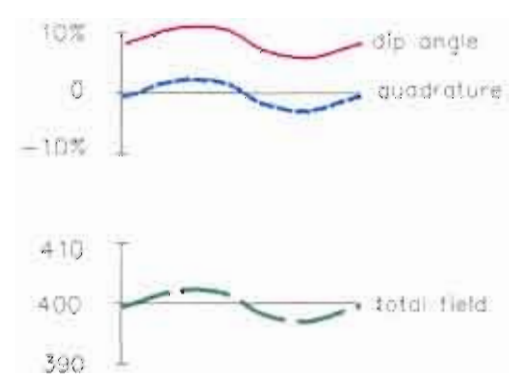


# LEGEND

INSTRUMENTATION: FIELD UNIT: EDA OMNI PLUS Proton Magnetometer and VLF-EM System

PROFILES ARE POSITIVE UP AND TO LEFT

## PROFILES

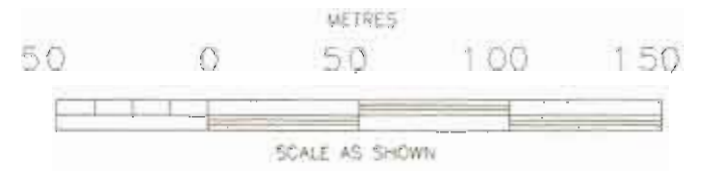


# ARNEX RESOURCES LTD. JASPER PROPERTY

NTS: 92C/15

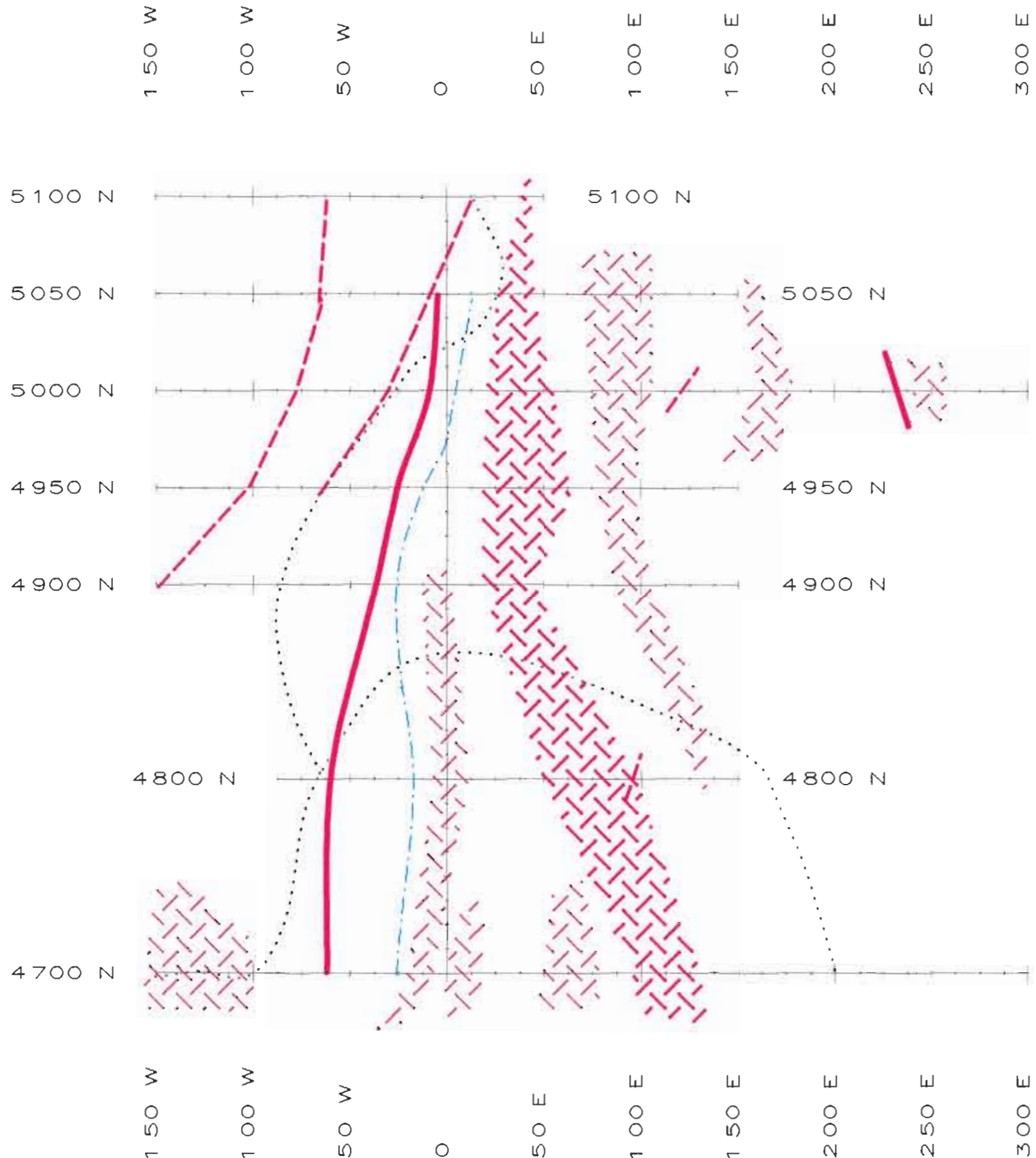
Victoria M.D., B.C.

## VLF-EM PROFILES SEATTLE, NLK 24.8 kHz



*SJ Geophysics Ltd.*





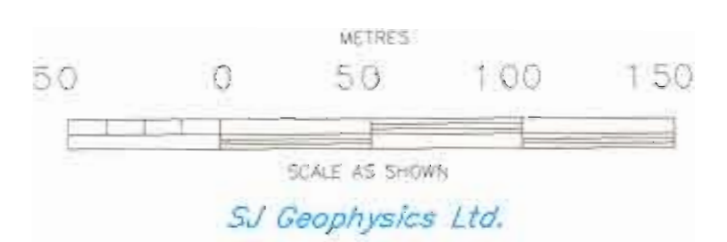
LEGEND

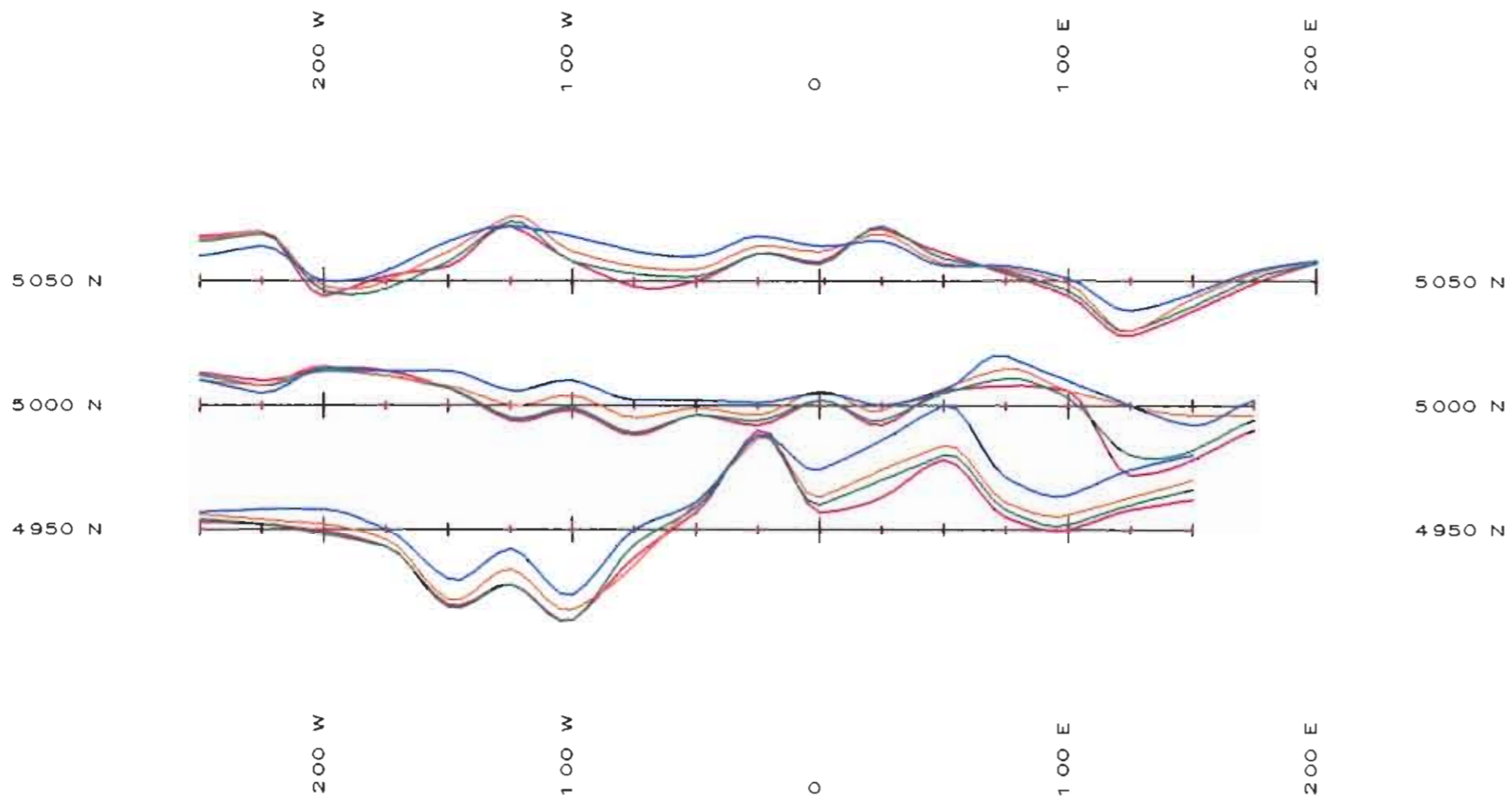


ARNEX RESOURCES LTD.  
 JASPER PROPERTY

NTS: 92C/15      Victoria M.D., B.C.

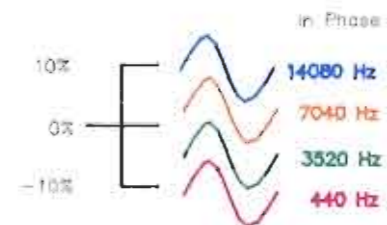
COMPILATION MAP





**LEGEND**

**INSTRUMENTATION:**  
 Max-Min 1-10 Horizontal Loop EM  
 Coil Separation: 100m  
 Station Spacing: 25m

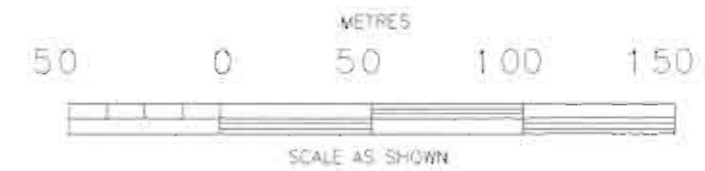


**ARNEX RESOURCES LTD.**

**JASPER PROPERTY  
 HLEM SURVEY  
 IN PHASE COMPONENT**

NTS: 92C/15

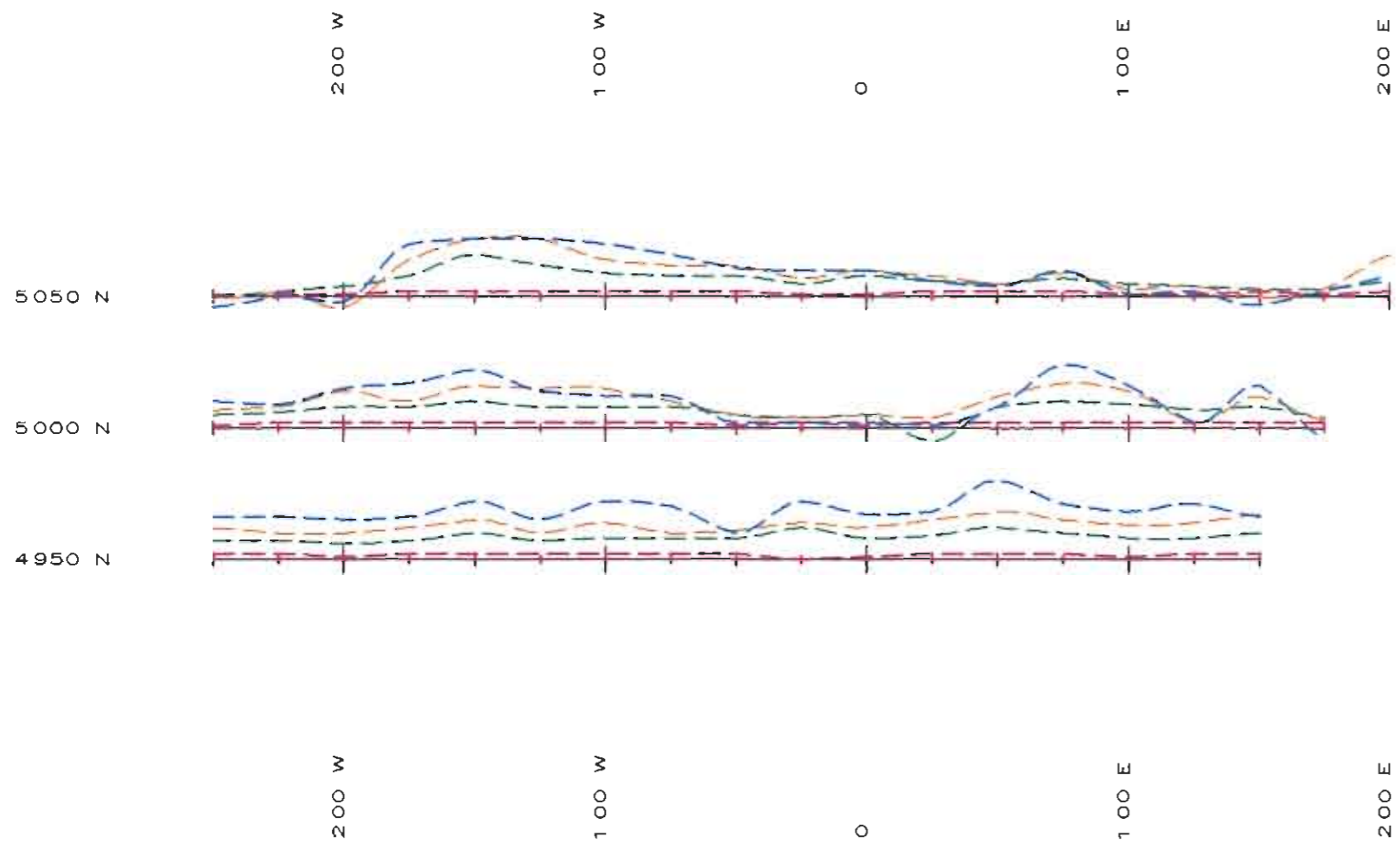
Victoria M.D., B.C.



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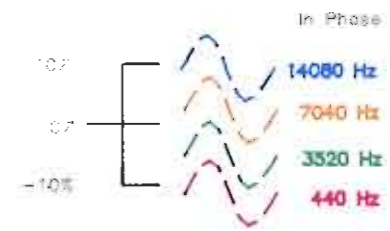
February, 1996

Plate G5a



**LEGEND**

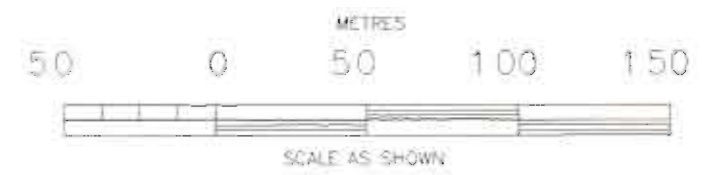
**INSTRUMENTATION:**  
 Max-Min 1-10 Horizontal Loop EM  
 Coil Separation: 100m  
 Station Spacing: 25m



**ARNEX RESOURCES LTD.**  
**JASPER PROPERTY**  
**HLEM SURVEY**  
**QUADRATURE COMPONENT**

NTS: 92C/15

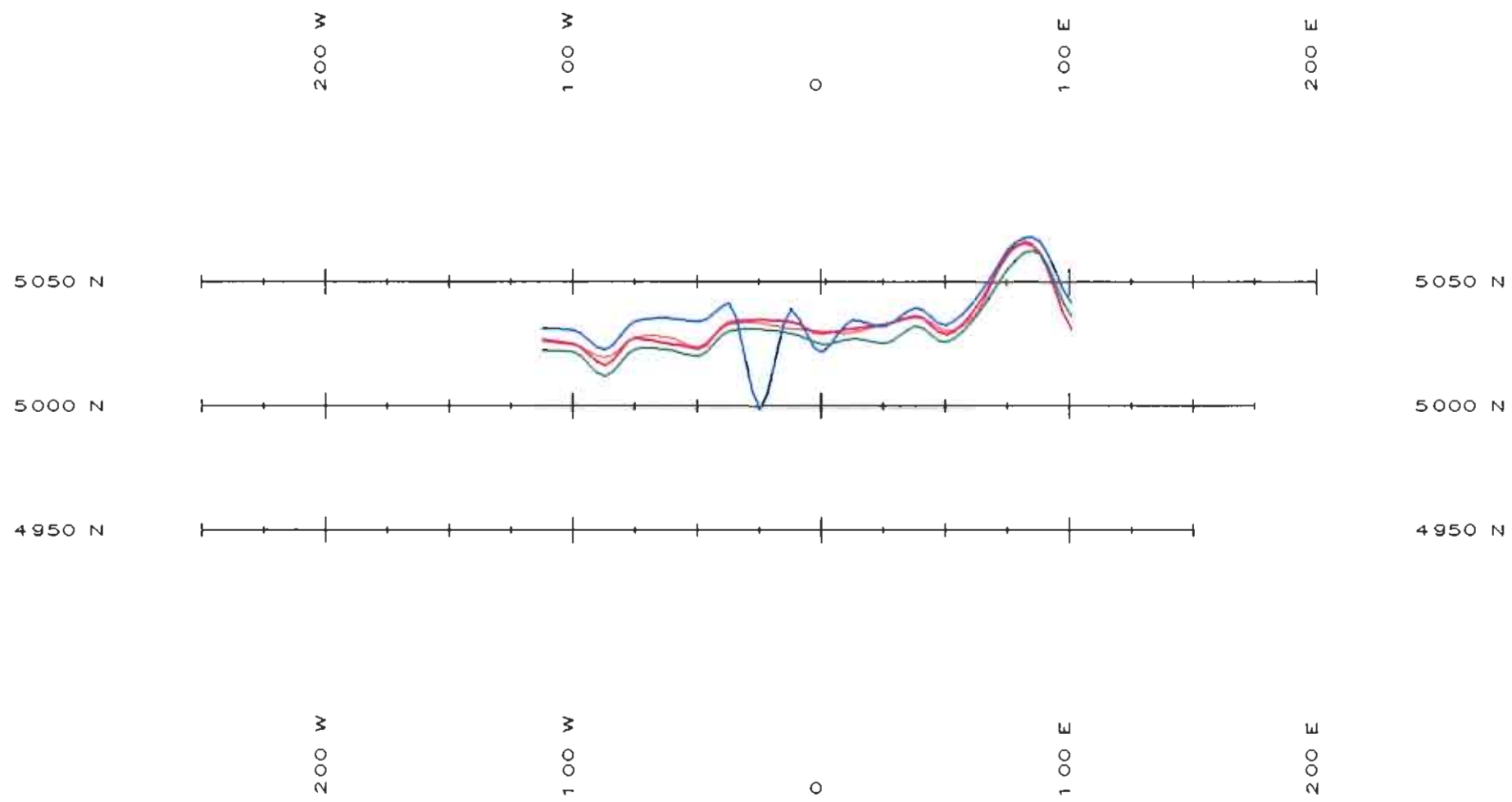
Victoria M.D., B.C.



*SJ Geophysics Ltd.*

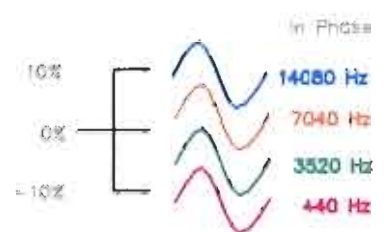
February, 1996

Plate G5b



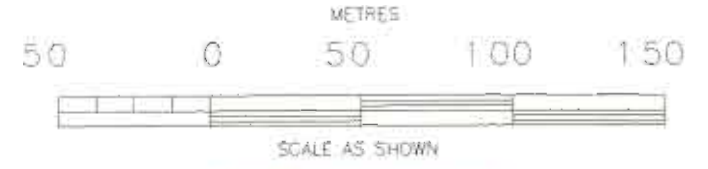
**LEGEND**

**INSTRUMENTATION:**  
 Max-Min 1-10 Horizontal Loop EM  
 Coil Separation: 50m  
 Station Spacing: 12.5m



**ARNEX RESOURCES LTD.**  
**JASPER PROPERTY**  
**HLEM SURVEY**  
**IN PHASE COMPONENT**

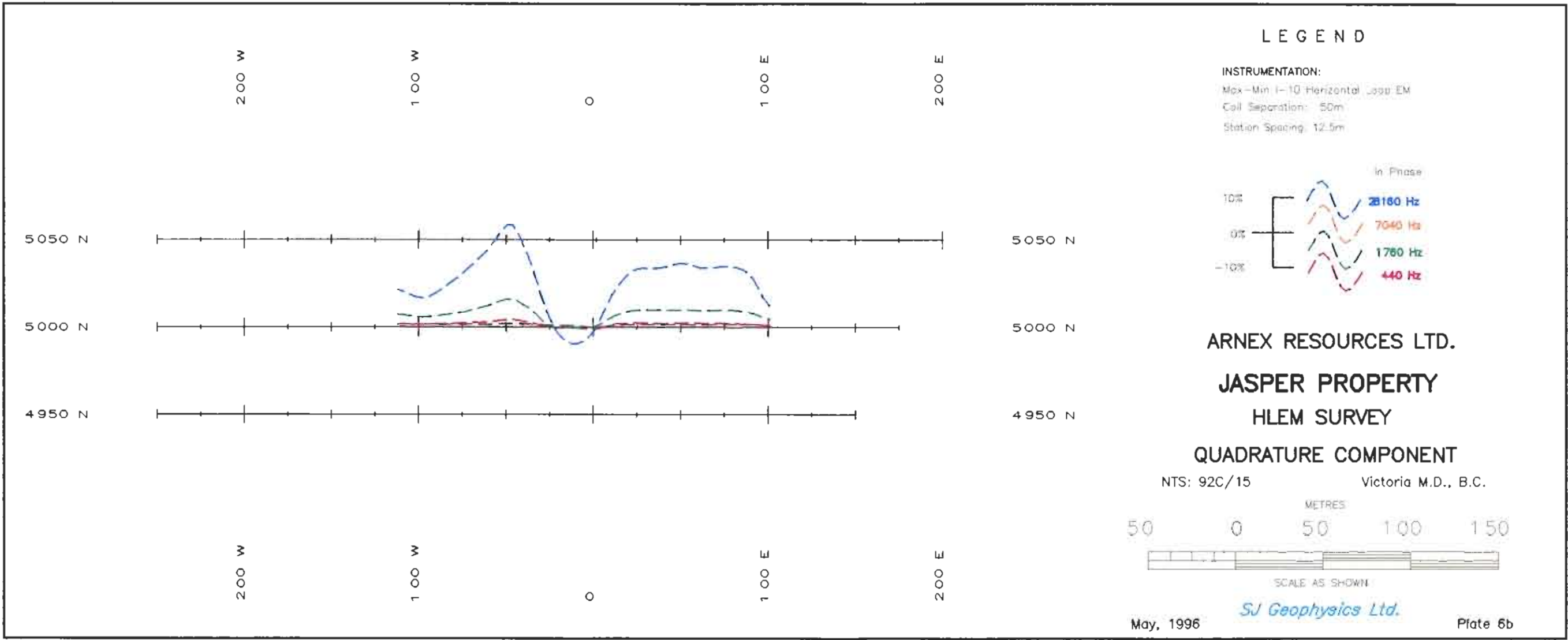
NTS: 92C/15 Victoria M.D., B.C.

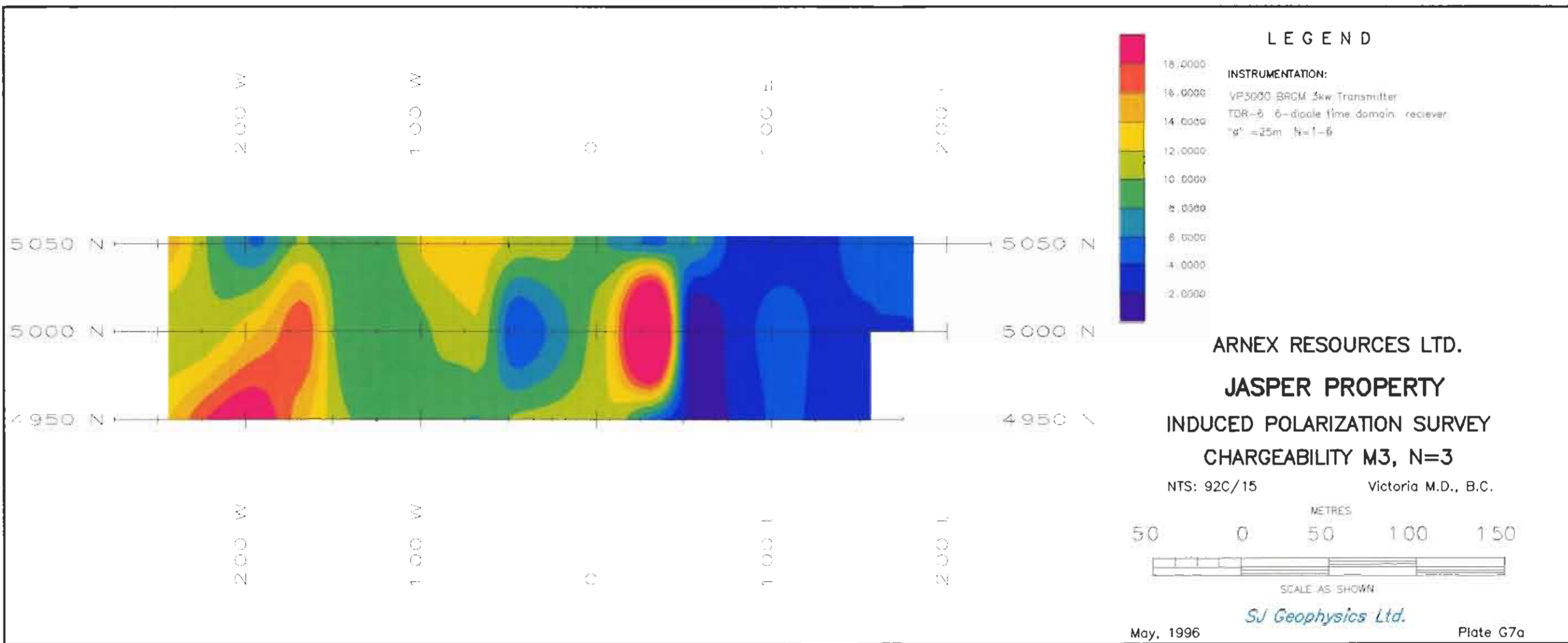


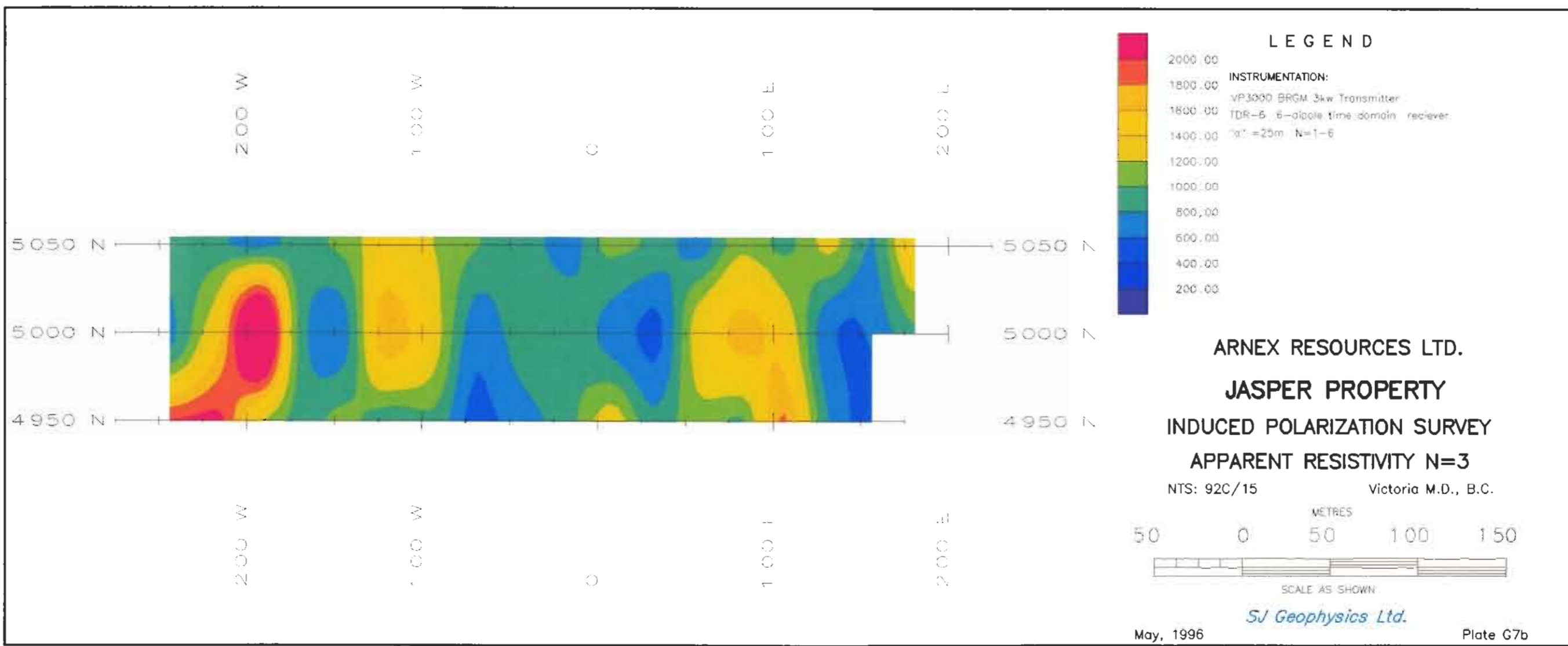
May, 1996

*SJ Geophysics Ltd.*

Plate 6a







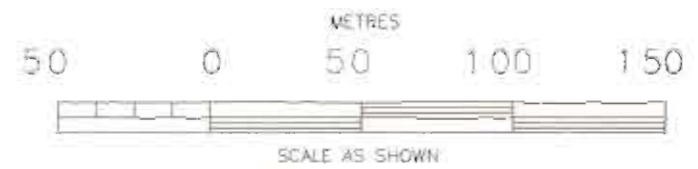
**LEGEND**

2000.00  
 1800.00  
 1600.00  
 1400.00  
 1200.00  
 1000.00  
 800.00  
 600.00  
 400.00  
 200.00

**INSTRUMENTATION:**  
 VP3000 BRGM 3kw Transmitter  
 TDR-6 6-dipole time domain receiver  
 Δx = 25m N=1-6

**ARNEX RESOURCES LTD.**  
**JASPER PROPERTY**  
**INDUCED POLARIZATION SURVEY**  
**APPARENT RESISTIVITY N=3**

NTS: 92C/15 Victoria M.D., B.C.

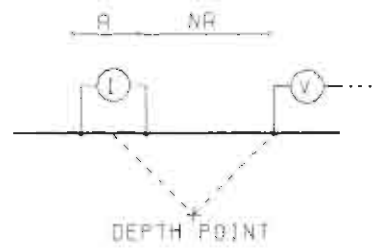


May, 1996 *SJ Geophysics Ltd.* Plate G7b

LINE : 5050 N

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY



N = 1, 2, 3, 4, ...  
"N" SPACING = 25.0 METRES

ARNEX RESOURCES LTD.

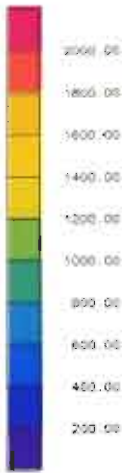
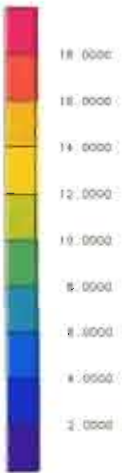
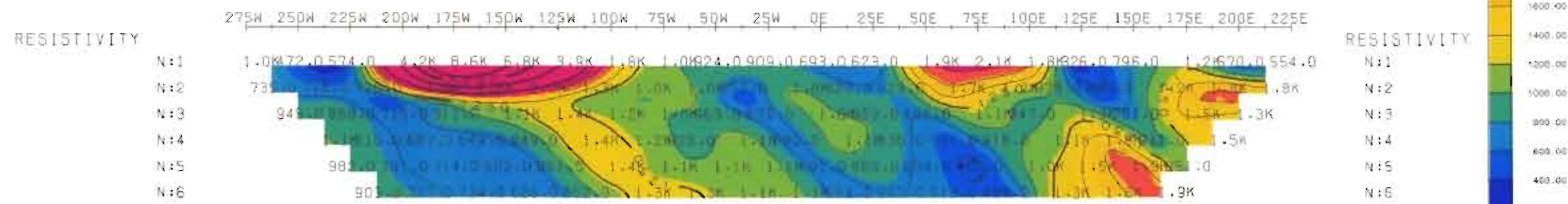
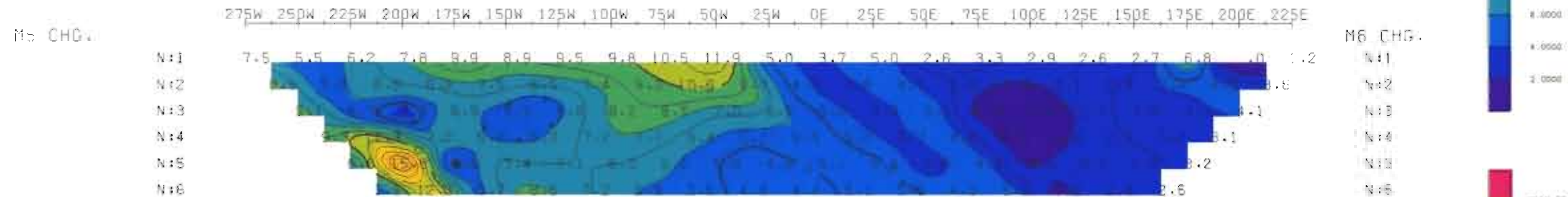
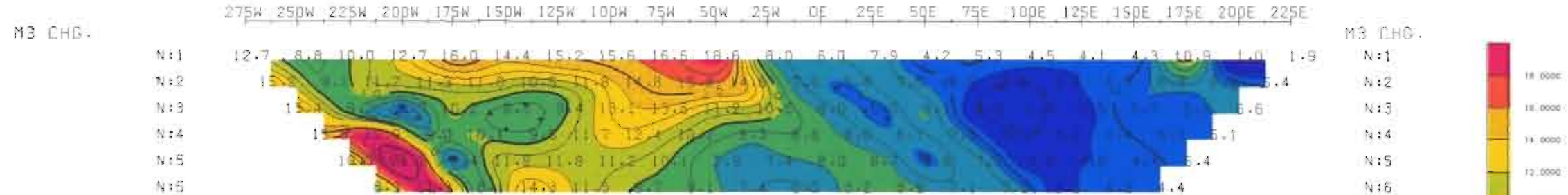
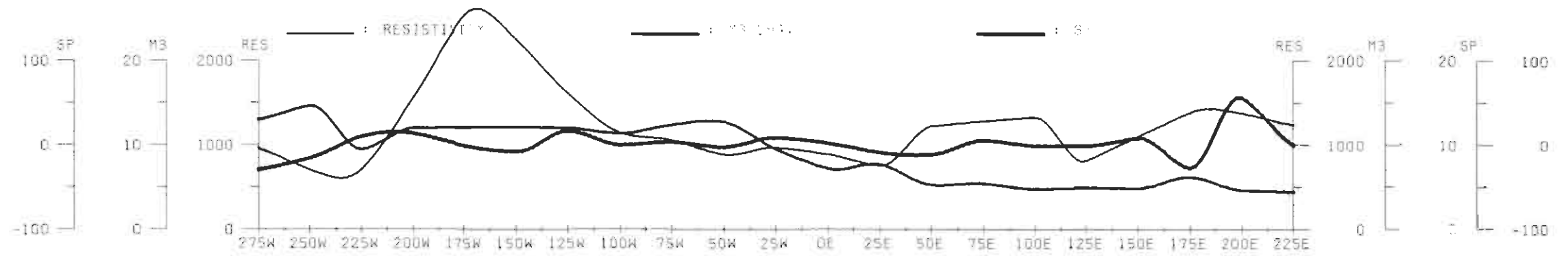
JASPER PROPERTY  
VICTORIA M.D., B.C.

DATE : 05/01/96

REF : NTS 920/15

SCALE = 1 : 2500

SJ GEOPHYSICS LTD.

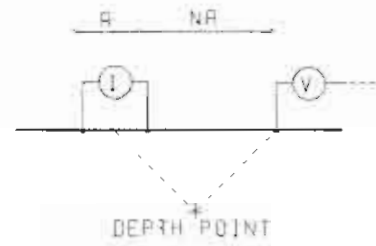




LINE : 5000 N

INDUCED POLARIZATION SURVEY

POLE-DIPPLE ARRAY



N = 1, 2, 3, 4, ...  
\*A\* SPACING = 25.0 METRES

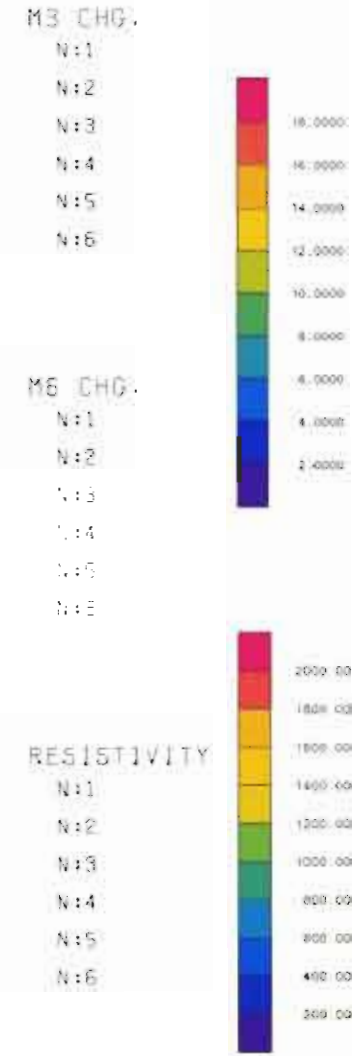
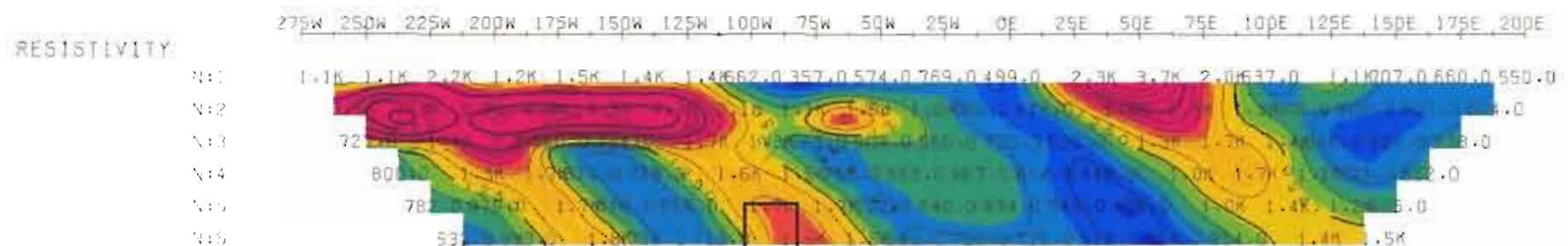
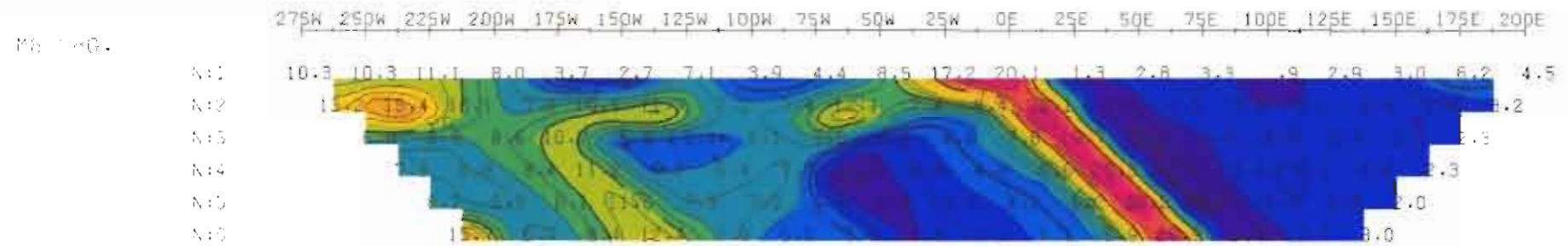
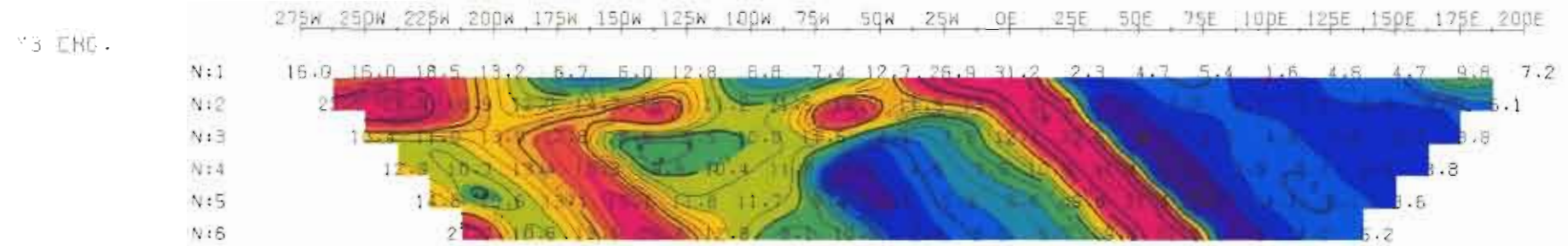
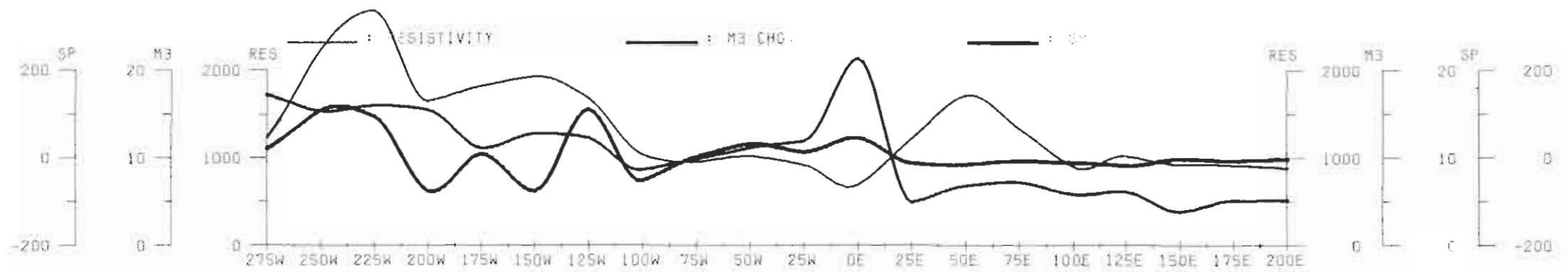
ARNEX RESOURCES LTD.

JASPER PROPERTY  
VICTORIA M.D., B.C.

DATE : 05/01/96 REF : NTS 920/15

SCALE = 1 : 2500

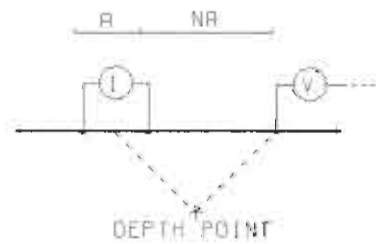
SJ GEOPHYSICS LTD.



LINE : 4950 N

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY



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"A" SPACING = 25.0 METRES

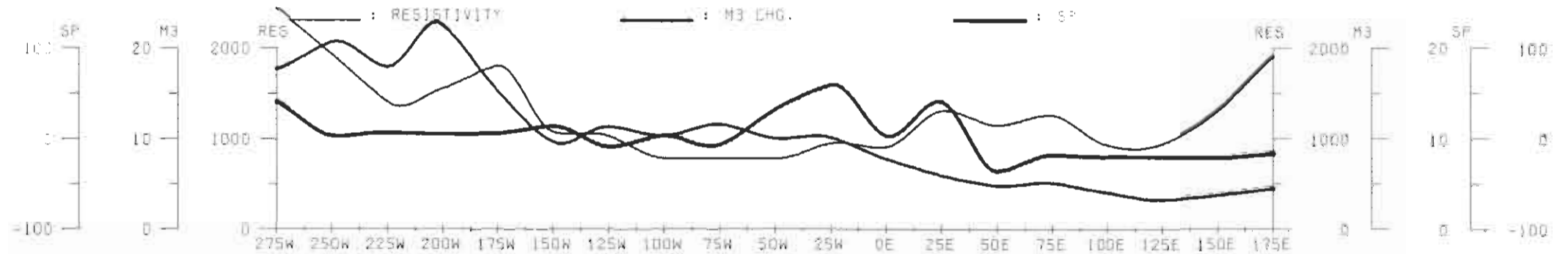
ARNEX RESOURCES LTD.

JASPER PROPERTY  
VICTORIA M.D., B.C.

DATE : 05/01/96 REF : NTS 920/15

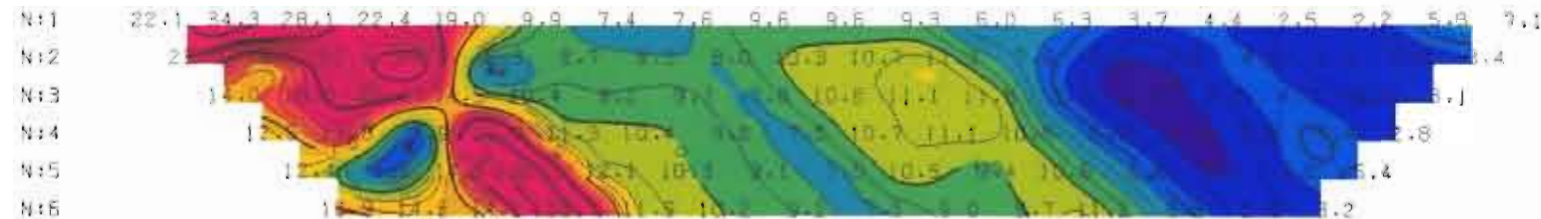
SCALE = 1 : 2500

SJ GEOPHYSICS LTD.



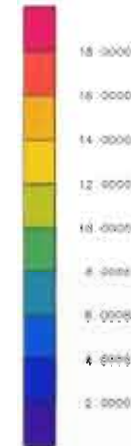
275W 250W 225W 200W 175W 150W 125W 100W 75W 50W 25W 0E 25E 50E 75E 100E 125E 150E 175E

M3 CHG.

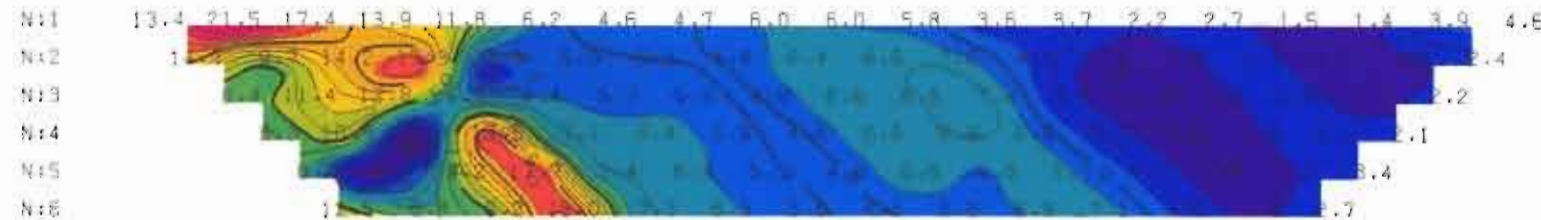


M3 CHG.

N:1  
N:2  
N:3  
N:4  
N:5  
N:6

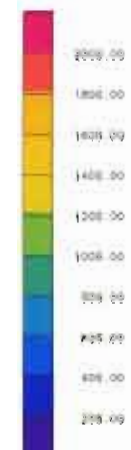


M6 CHG.

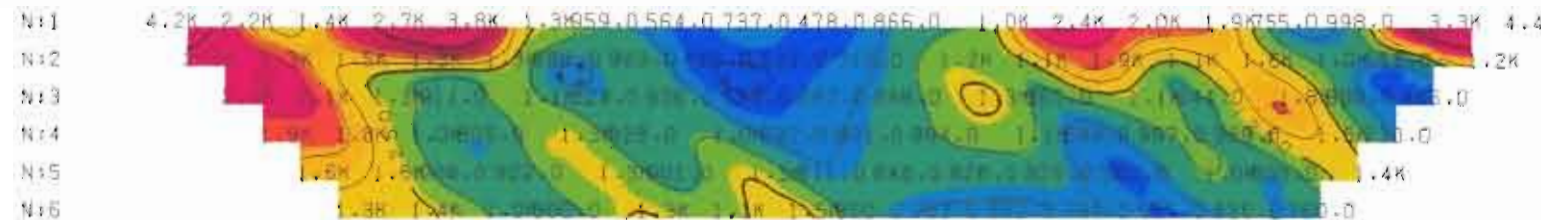


M6 CHG.

N:1  
N:2  
N:3  
N:4  
N:5  
N:6



RESISTIVITY



RESISTIVITY

N:1  
N:2  
N:3  
N:4  
N:5  
N:6

