

Report On  
Geological Mapping, Trenching and Diamond Drilling  
on the A1 1, A1 3, A1 8, Bert and Ernie  
Mineral Claims (Hump-84 Group)

Toodoggone River Area, B.C.  
Liard Mining Division  
Lat. 57°~~00'~~<sup>27.8'</sup>N, Long. 127°~~00'~~<sup>22.8'</sup>W  
NTS 94E/6W

by

George W.G. Sivertz

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February 20, 1986

Vancouver, B.C.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

14,459

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## **Introduction**

Energex Minerals Ltd. conducted a major exploration program on the 26 claim A1 property in 1985.

The property lies between Albert's Hump and Moosehorn Creek in the Toadoggone River area of north-central British Columbia.

Mobilization commenced on June 11, 1985, and was completed through Smithers to the Sturdee airstrip on June 12, 1985. Aircraft used included a Hercules, DeHavilland Caribou, Beech Expeditor and Piper Navajo; Bell 205 and 206 helicopters ferried materials and fuel from the Sturdee airstrip to the camp site southeast of Albert's Hump.

Camp construction began on June 21st and was completed on July 15th. Exploration got underway on June 22nd and was completed on September 18th.

Exploration included prospecting, detailed geological mapping, rock sampling, geophysical surveys, backhoe trenching and diamond drilling.

This report describes work conducted on the Bingo, BV and Thesis III zones located on the A1 1 and 3 claims (Hump-84 Group) between June 27 and September 8, 1985. The work included trenching, mapping and sampling on the Bingo zone (A1 1 claim) and diamond drilling on the BV and Thesis III deposits (A1 3 claim). Work on the Bingo zone was conducted from August 24 to September 8, 1985; drilling on the Thesis III and BV commenced on June 27 and ended on July 28, 1985.

# MOOSE PROPERTY

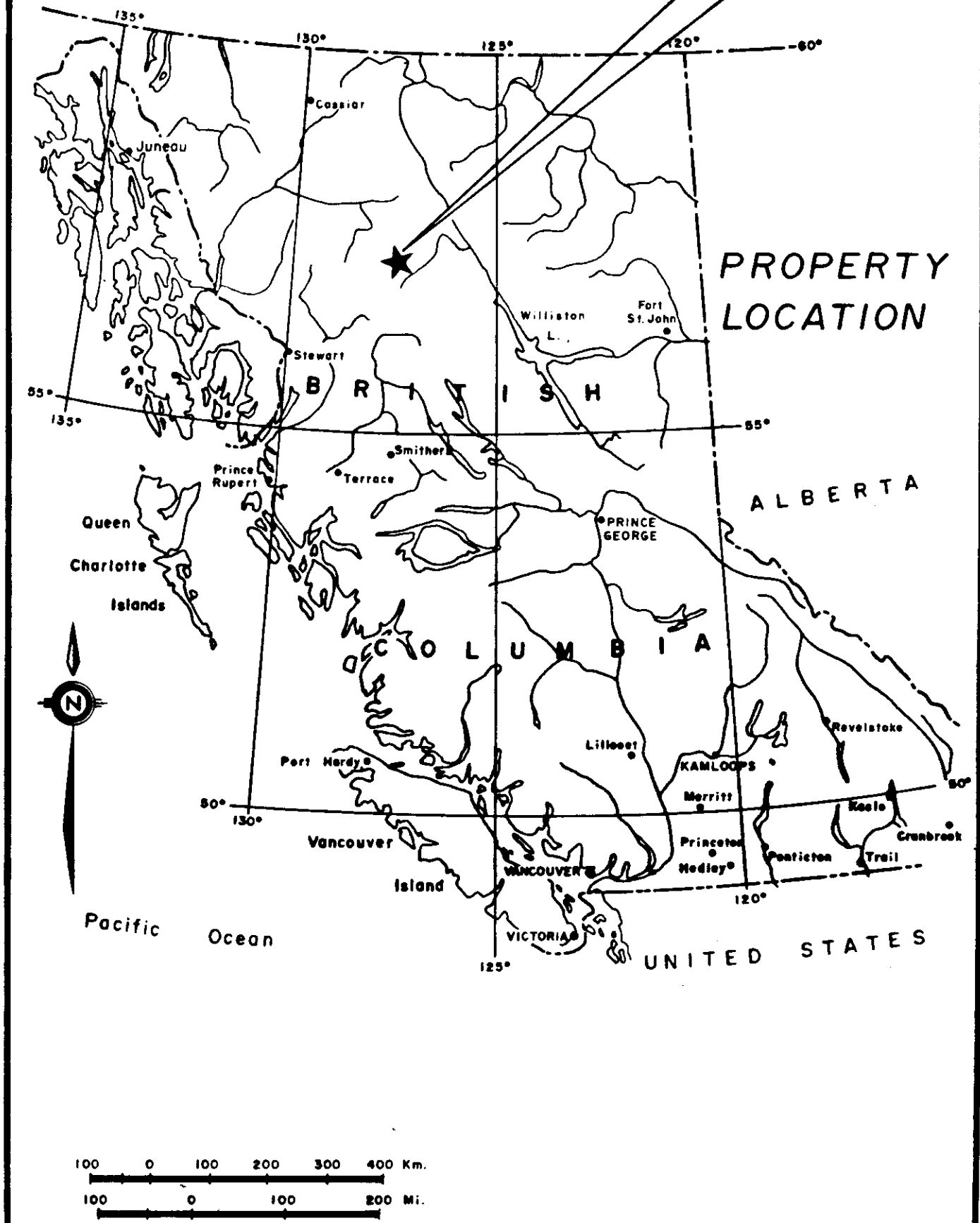


FIGURE 1 BRAD'S DRAFTING SERVICES

**Property**

The A1 property consists of 26 contiguous modified grid claims, comprising 298 units and 6 fractions. A table of claim data follows:

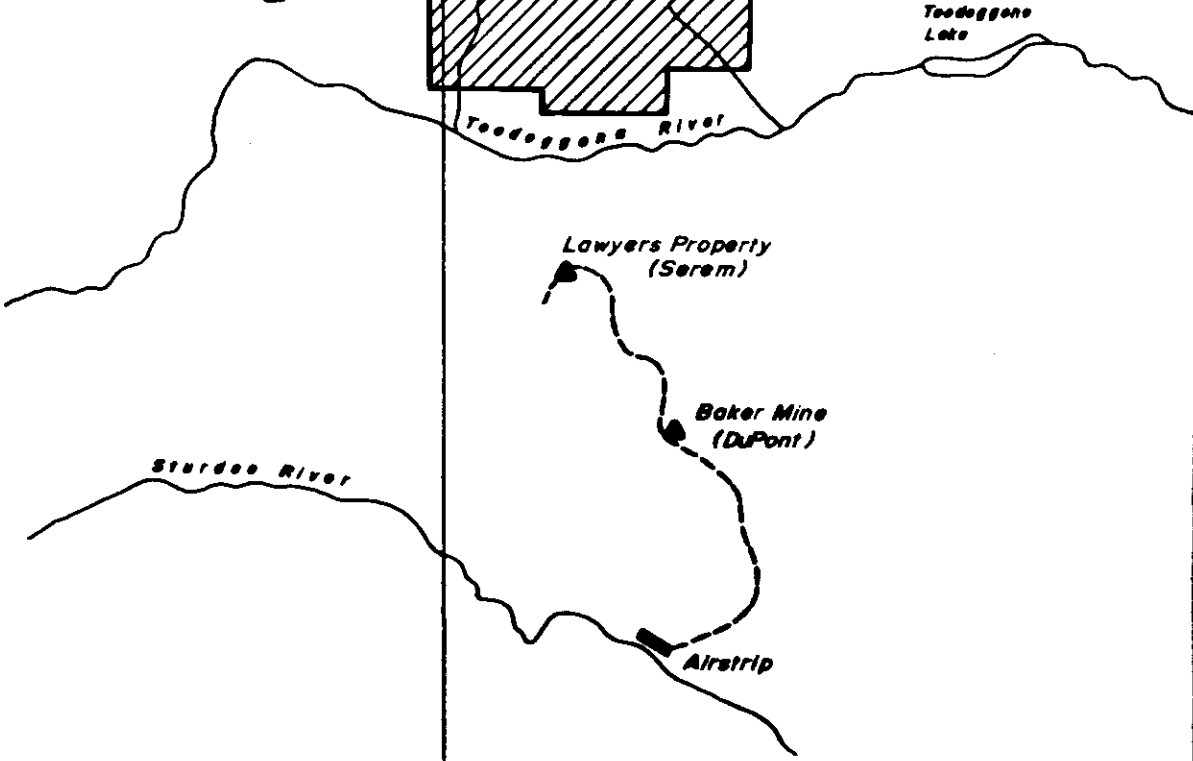
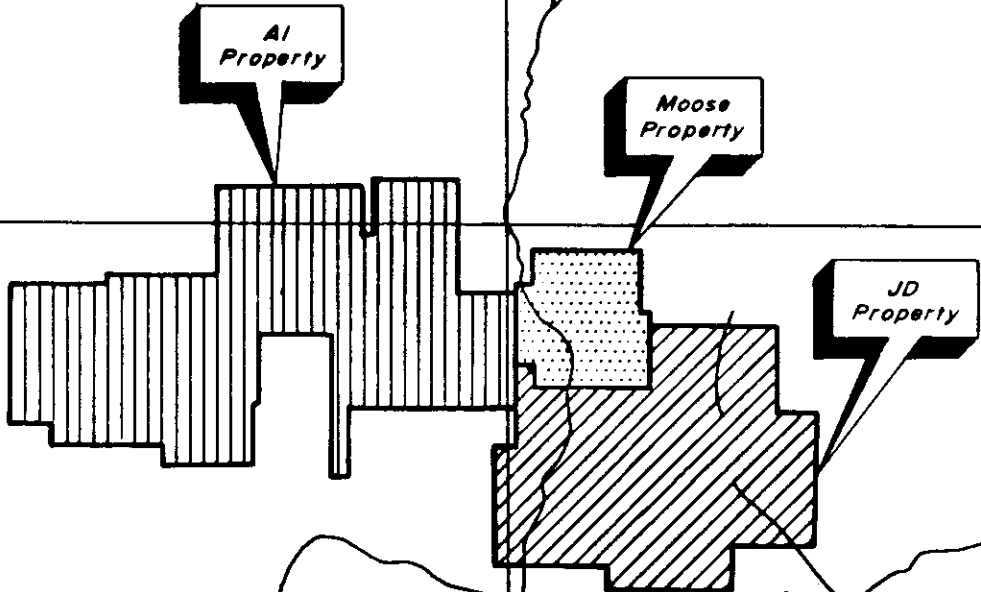
| <u>Claim Name</u> | <u>Record #</u> | <u>Record Date</u> | <u>Mining Division</u> | <u># of Units</u> | <u>Current Group</u> | <u>Expiry Date</u> |
|-------------------|-----------------|--------------------|------------------------|-------------------|----------------------|--------------------|
| *A1 1             | 789             | 12Jun79            | Liard                  | 20                | Hump 84              | Pending            |
| A1 2              | 790             | 12Jun79            | Liard                  | 20                | Bull                 | 1996               |
| *A1 3             | 791             | 12Jun79            | Liard                  | 20                | Hump 84              | Pending            |
| A1 4              | 792             | 12Jun79            | Liard                  | 20                | Hyuk 84              | 1996               |
| A1 5              | 1439            | 18Jul80            | Liard                  | 10                | Hyuk 84              | 1996               |
| A1 6              | 1440            | 18Jul80            | Liard                  | 10                | Hyuk 84              | 1996               |
| A1 7              | 1871            | 21Apr81            | Liard                  | 16                | Hyuk 84              | 1996               |
| *A1 8             | 1872            | 21Apr81            | Liard                  | 16                | Hump 84              | Pending            |
| *Bert             | 2012            | 13Aug81            | Liard                  | 20                | Hump 84              | Pending            |
| *Ernie            | 2011            | 13Aug81            | Liard                  | 20                | Hump 84              | Pending            |
| Bull              | 2010            | 13Aug81            | Liard                  | 20                | Bull                 | 1996               |
| Hyuk 1 (fr)       | 3026            | 11Jul83            | Liard                  | 1                 | Hyuk 84              | 1996               |
| Hyuk 2 (fr)       | 3027            | 11Jul83            | Liard                  | 1                 | Hyuk 84              | 1996               |
| Hyuk 3 (fr)       | 3028            | 11Jul83            | Liard                  | 1                 | Hyuk 84              | 1996               |
| Nii               | 3029            | 11Jul83            | Liard                  | 6                 | Hyuk 84              | 1996               |
| JO (fr)           | 4272            | 08Sep81            | Omineca                | 1                 | Bull                 | 1996               |
| RJ (fr)           | 4273            | 08Sep81            | Omineca                | 1                 | Bull                 | 1996               |
| Winkle            | 4099            | 13Aug81            | Omineca                | 20                | Sesame82             | 1991               |
| Chute             | 4100            | 13Aug81            | Omineca                | 18                | Bull                 | 1991               |
| Surprise          | 4098            | 13Aug81            | Omineca                | 20                | A/L 82               | 1987               |
| Gerome            | 4097            | 13Aug81            | Omineca                | 15                | A/L 82               | 1987               |
| Wankle            | 4095            | 13Aug81            | Omineca                | 3                 | A/L 82               | 1986               |
| Tinkle (fr)       | 4093            | 13Aug81            | Omineca                | 1                 | A/L 82               | 1987               |
| Was II            | 6249            | 29Aug85            | Omineca                | 8                 | Bull                 | 1989               |
| Antoine Louis     | 4096            | 13Aug81            | Omineca                | 10                | A/L 82               | 1988               |
| Furlong           | 4274            | 08Sep81            | Omineca                | 6                 | A/L 82               | 1986               |

\*Subject claims, this report.



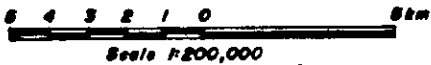
128°10'

87°30'



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LOCATION MAP  
**AI, Moose,  
& JD Properties**



Scale 1:200,000

Date: October 1985.

Revised:

NTS: 94 E/6W

Figure: 2

### **Location and Access**

The property is situated approximately 300 kilometers north of Smithers, at 57°28'N latitude and 127°22'W longitude.

The Toodoggone River area is served by the Sturdee airstrip, which lies 30 kilometers to the southeast of the Al camp. The Sturdee strip was built to accomodate Hercules aircraft, which were used to service DuPont's Baker mine.

Access to the property is presently by fixed wing aircraft from Smithers and by helicopter from Sturdee strip. A road linking the Toodoggone area (S.E.R.E.M.'s Lawyers deposit) with the present terminus of the Omineca Mining Road is under consideration by the B.C. Government. If this road is completed, materials and personnel could be trucked to the roadhead and ferried to the Al property by helicopter, a distance of only 18 kilometers.

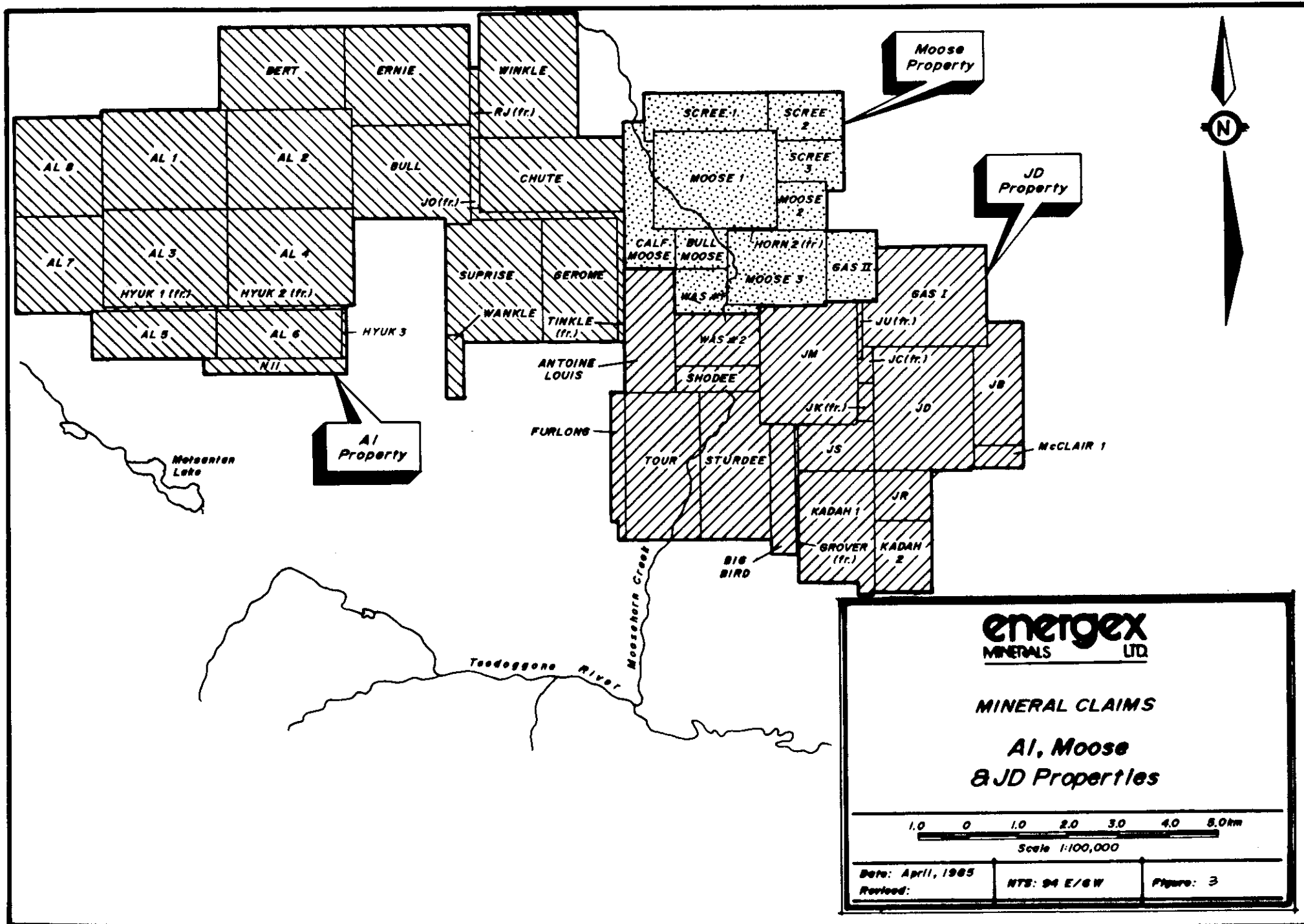
### **Physiography, Vegetation and Climate**

The claim block covers a gently rolling, deeply dissected upland surface, which extends east from Albert's Hump to Tuff Peak, and south from Tuff Peak to Metsantan Mountain. The upland area is bounded by the valleys of Metsantan, Moyez/Abesti and Moosehorn Creeks, and is drained by Antoine Louis Creek and a southwest flowing tributary of Metsantan Creek.

The greater part of the property lies above timberline at elevations of 1400 to 1700 meters. Vegetation here consists of low scrub and alpine grasses, with small stands of stunted Alpine Fir and krummholz. Forested areas fringing the alpine zone are dominated by spruce and fir, but stands of pine and poplar also occur.

The property is snowbound from early October until mid-June. The short summer season is typically cool and showery. Occasional snow showers occur throughout the summer months but accumulated snow does not linger for long.





BERT

ERNIE

WINKLE

RJ(fr.)

SCREE 1

SCREE 2

MOOSE 1

SCREE 3

MOOSE 2

AL 8

AL 1

AL 2

BULL

CHUTE

AL 7

AL 3

AL 4

SUPRISE

GEROME

CALF MOOSE

BULL MOOSE

HORN 2(fr.)

GAS II

HYUK 1(fr.)

HYUK 2(fr.)

HYUK 3

WANKLE

TINKLE(fr.)

WAS #1

MOOSE 3

GAS I

AL 5

AL 6

NII

ANTOINE LOUIS

WAS #2

JM

JUI(fr.)

JC(fr.)

JB

FURLONG

SHODDEE

JK(fr.)

JD

McCLAIR 1

TOUR

STURDEE

JS

KADAM 1

JR

BIG BIRD

GROVER(fr.)

KADAM 2

### **Previous Work**

Early work in the area of the present Al property consisted of a program of prospecting, hand trenching and rock sampling conducted by Newconnex on the Hump claims. This work, completed in 1973, was directed to the discovery of porphyry-type Cu-Mo deposits and was unsuccessful.

The Al 1-4 claims were staked by Energex Minerals Ltd. in 1979, and were optioned to Texasgulf Canada Ltd. in 1980, together with the Moose and JD properties. Texasgulf completed reconnaissance geochemical and geological surveys in that year, and staked the Al 5-6 claims to cover large alteration zones on the north flank of Metsantan Mountain.

In 1981, more extensive and detailed grid-controlled geochemical surveys were conducted. Additional work included trenching and VLF-EM/magnetometer orientation surveys. The work produced encouraging results; the claim block was further enlarged by the addition of the Al 7-8, Bert, Ernie, Bull and Oscar claims.

The 1982 program consisted of geological mapping and rock geochemistry, reconnaissance and detailed soil geochemistry, IP surveys, backhoe trenching, diamond drilling, and a legal survey of legal corner posts. Drilling and trenching were concentrated on the Bonanza-Ridge alteration zones; additional holes were drilled on the Furlong and Hump zones. The drilling was technically successful but the results were erratic and only moderately encouraging. It had become apparent that extensive surface work was needed before mineralized zones were tested by drilling (Sutherland and Clark, 1982).

Accordingly, 1983 was a season of detailed surface exploration which included very extensive backhoe trenching and limited geological mapping and soil sampling. This work resulted in the discovery of the high grade "Verrenass" zone in the Bonanza-Ridge area, and the "Thesis II" mineralization south of the present camp area.

In 1984, extensive backhoe trenching and diamond drilling were conducted on five mineralized zones, including the Verrenass, Ridge and Thesis II, and the newly discovered Thesis III and BV (Barite Vein) zones. The drilling results varied; encouraging high grade intersections were made on the BV and Thesis III zones and assays from the other zones were of moderate grade (von Fersen, 1984).

The AI property, together with the Moose and JD groups, was returned to Energex Minerals Ltd. in late December 1984. Kidd Creek Mines Limited (formerly Texasgulf Canada Ltd.) retained a 15% net profits interest in the properties.

### **Geology and Mineralization**

The AI property is underlain by dominantly andesitic porphyritic volcanic rocks, including flows, tuff and agglomerate. These are of Lower to Middle Jurassic age and have assigned to the "Toodoggone Volcanics" (Carter, 1972; Diakow, Pantaleyev and Schroeter, 1985).

The "Toodoggone Volcanics" have recently been subdivided into 8 units/formations, consisting of interlayered lava flows, ash flows and lapilli and crystal tuffs, with subvolcanic equivalents and associated volcanoclastic and epiclastic rocks.

Four of these units underlie the AI property; these include the basal Adoogatcho Creek Formation, the Moyez Creek Volcanoclastics, the Lawyers-Metsantan Quartzose Andesite and the Tuff Peak Formation.

The basal unit (1) is dominantly porphyritic reddish grey to dark brown quartzose biotite hornblende ash flow tuff, which is commonly welded to some degree. This unit outcrops on the west-central and northern section of the property (AL 1-4, 7-8, Bert, Ernie and Winkle claims). Overlying the basal unit on the north and east flanks of Tuff Peak, the Moyez Creek Volcanoclastic unit (2), consisting of conglomerate, crystal tuff, greywacke and minor limy sediments, outcrops in two east-trending bands.

The Lawyers-Metsantan Quartzose Andesite (3) underlies the Metsantan Mountain area, on the southern section of the property. This unit comprises mainly lava flows and flow breccias composed of porphyritic, green to grey biotite-hornblende plagioclase andesite, with minor lapilli tuff and rare welded tuff of similar lithology.

The Tuff Peak Formation (6), consisting of purple, grey and green augite biotite-hornblende plagioclase lava flows with minor crystal/lapilli tuff and subvolcanic sills and plugs, outcrops on the eastern section of the property. This unit in part directly overlies the basal unit and in part is in fault contact with it.

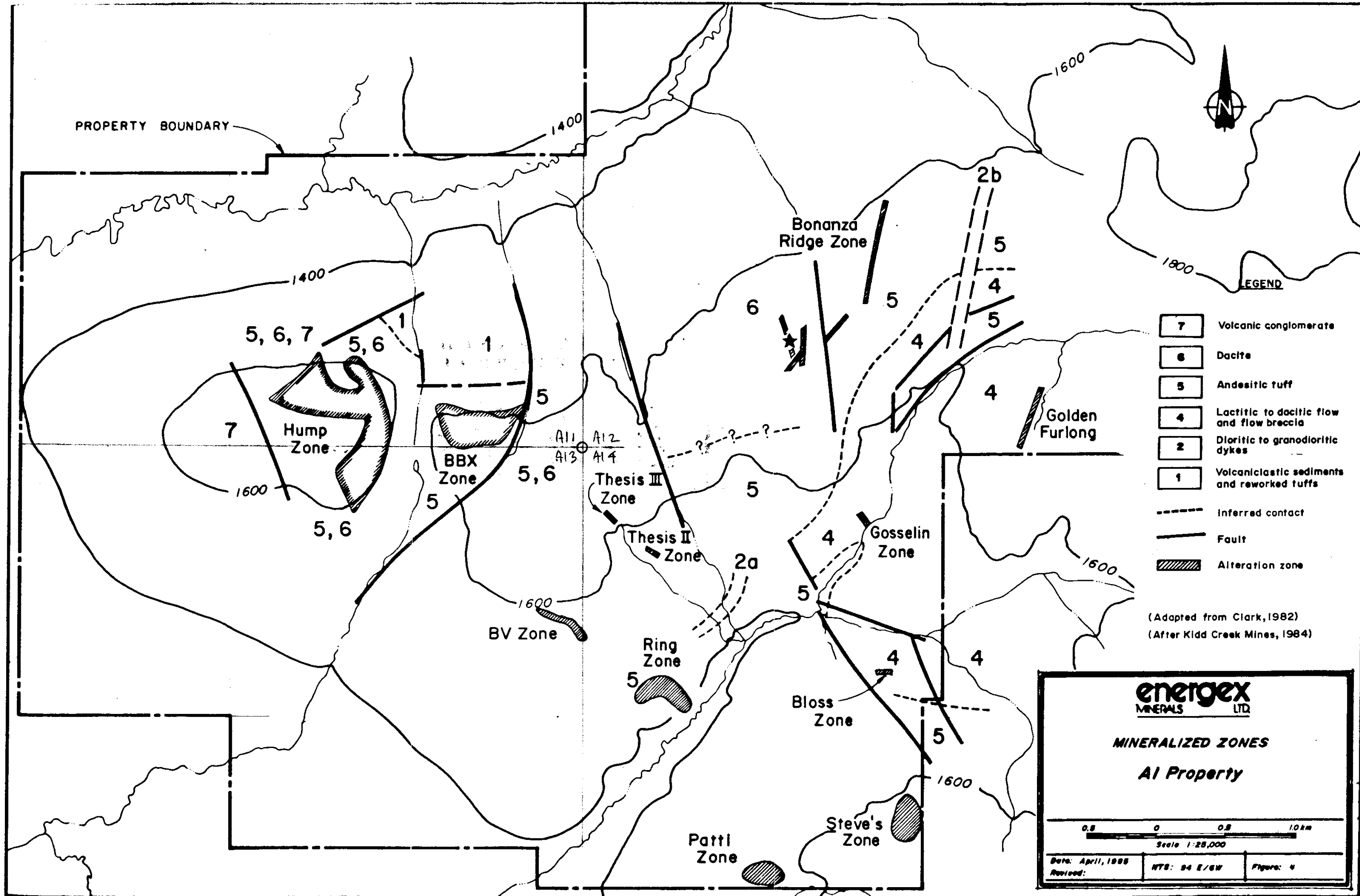
Alteration zones, some of large areal extent (25-75 ha), occur in large numbers on the property. They are characterized by strong, often complete argillization and silicification of the host rocks; pervasive alunization is also present on Albert's Hump (AL 1, 3 claims). Alteration zones are apparently structurally controlled, mainly by north-northwest to north-northeast trending faults.

They typically contain intensely silicified cores surrounded by wide envelopes of argillic alteration. Subtypes, including silicification with pyrite, argillization with hematite/goethite, and silicification with hematite/goethite, have also been recognized.

Native gold, with minor silver, occurs within the silicified cores of many of the zones. This mineralization is almost always accompanied by barite, and the best grades are often found in highly porous rock, which apparently permitted easy access to mineralizing fluids.

To date, a total of 12 auriferous alteration zones, and many more geochemically anomalous zones, have been discovered. These are commonly shaped like elongated lenses in plan, and are commonly oriented northwest to north-northeast. One zone, the BV, is several hundred meters in length and is apparently an imbricated vein-fault system.

Alteration zones discussed in detail in this report include the Bingo, BV and Thesis III.



A. Bingo Zone

The Bingo zone, located 750 meters northwest of Thesis III deposit on the A1 claim, is divided by topography into an upper and lower zone. A wide swampy area, drained by a creek, appears to bisect the two zones which have many geologic similarities and probably are related to the same structure.

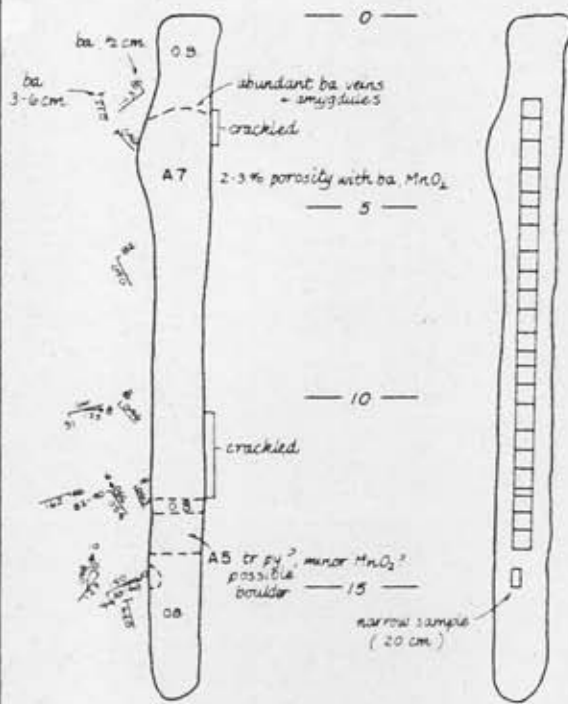
Gold mineralization in the Bingo zones is similar to that in the Bonanza and Thesis III deposits in that it is associated with frothy textured, pervasively silicified rocks with fine crystals and veinlets of barite. One speck of visible gold was noted in trench TA-85-17. A very hard core of intensely silicified, finely porous, volcanics with no pyrite (A<sub>5</sub>) forms a resistant spine which trends in a north northwesterly direction and which stands out in slight relief against the rolling topography on the lower zone. Coarsely vesicular, silicified rocks with barite flank the spine and as one moves to either side of this feature the rocks become less silicified (except in narrow bands) and more pervasively argillized (A<sub>2</sub>) and crumbly. Relatively fresh maroon volcanics (A<sub>3</sub>) envelope the altered sequence of rocks. The lower Bingo zone has been traced for over 70 meters and has a maximum width of 60 meters. Possible strike extensions of this zone are masked by overburden.

One trench (TA-85-18) intersected the altered and mineralized sections of the Upper Bingo zone. Trench TA-85-19 was excavated to intersect the uphill, strike extension of this zone but failed to do so. Structural trends of this part of the Bingo deposit are more difficult to predict and perhaps this zone is less extensive than its lower counterpart.

Trenches TA-85-13 through 19 were excavated in the main Bingo area. (Refer to Figures 6 to 10). Results from 258 panel samples collected from the Bingo trenches indicate gold mineralization is present in amounts up to about 5.0 grams/tonne.

More trenches are proposed to test the Bingo zones along strike however deep overburden may be a problem in testing the lower sections of each zone.





| Panel Sample No | Width (m) | Au Assay (gm/tonne) |
|-----------------|-----------|---------------------|
| 17070           | 0.5       | 1.60                |
| 17071           | 0.6       | 1.80                |
| 17072           | 0.7       | 2.30                |
| 17073           | 0.6       | 3.10                |
| 17074           | 0.9       | 2.90                |
| 17075           | 0.5       | 2.10                |
| 17076           | 0.7       | 2.40                |
| 17077           | 0.5       | 2.40                |
| 17078           | 0.5       | 2.10                |
| 17079           | 0.5       | 1.50                |
| 17080           | 0.6       | 2.70                |
| 17081           | 0.5       | 3.40                |
| 17082           | 0.4       | 1.70                |
| 17083           | 0.5       | 1.50                |
| 17084           | 0.5       | 2.00                |
| 17085           | 0.7       | 2.90                |
| 17086           | 0.5       | 3.10                |
| 17087           | 0.5       | 4.20                |
| 17088           | 0.5       | 1.80                |
| 17089           | 0.1       | 0.80                |
| 17090           | 0.4       | 1.40                |
| 17091           | 0.5       | 1.60                |
| 17092           | 0.5       | 1.00                |
| 17093           | 0.5       | 0.70                |

**LEGEND**

- A7 Silicified with pyrite. Remnant clay feldspars.
- A5 Silicified, no pyrite. General preservation of texture with white silicified ghosts of fragments and feldspar. Fragments up to 4cm along long axis. Hematite in matrix locally. Trace quartz eyes.
- Fractures, dipping and vertical
- Alteration trend
- Observed contact
- Slickensides
- py Pyrite
- ba Barite

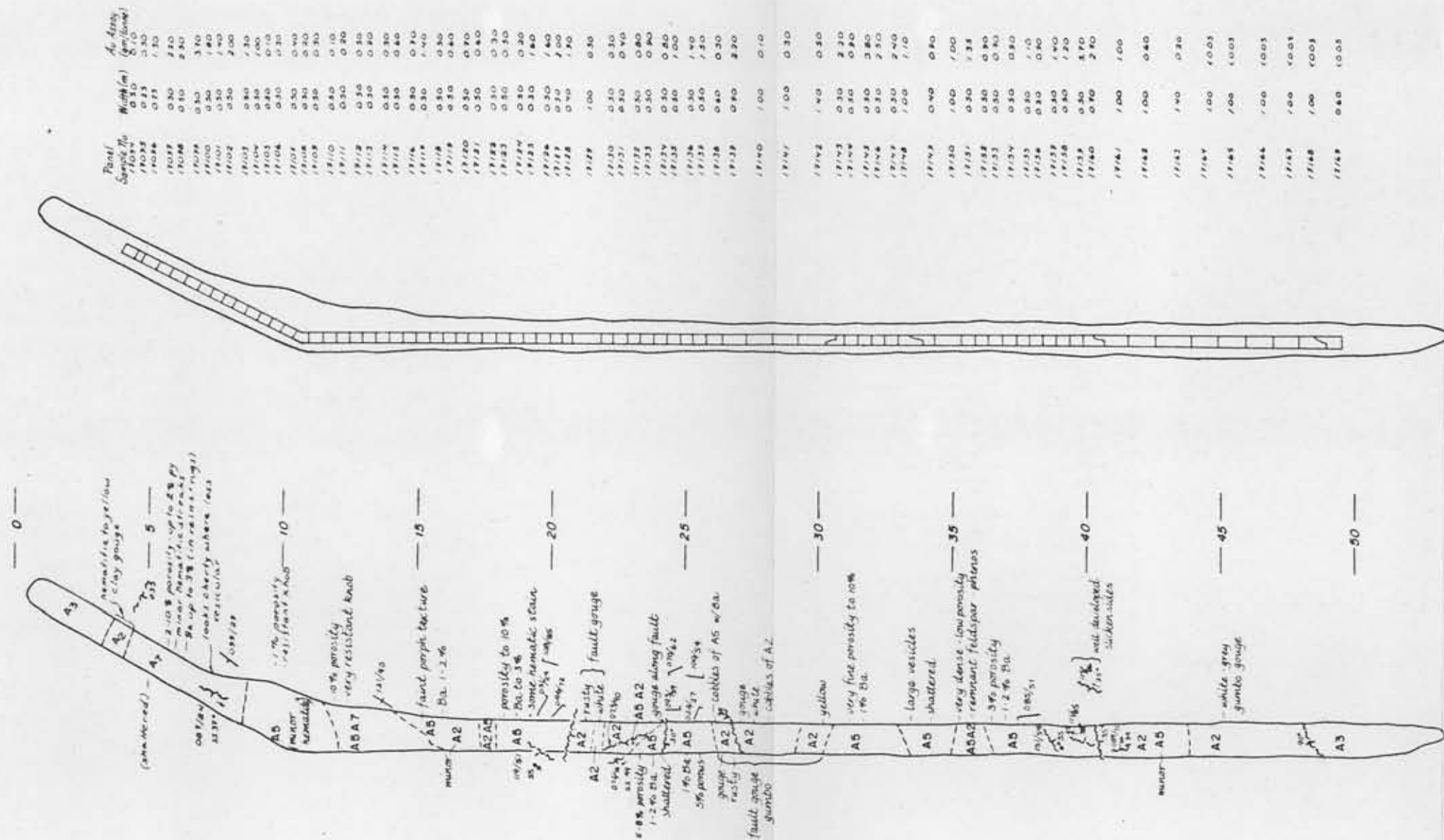
**energex**  
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All Property  
BINGO ZONE  
TR A-85-14

Scale 1:100 (1:200 when reduced)

|                |             |          |
|----------------|-------------|----------|
| Date Oct, 1985 | NTS: 94E/6W | Figure 6 |
| Revised:       |             |          |



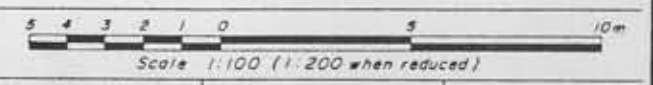


**LEGEND**

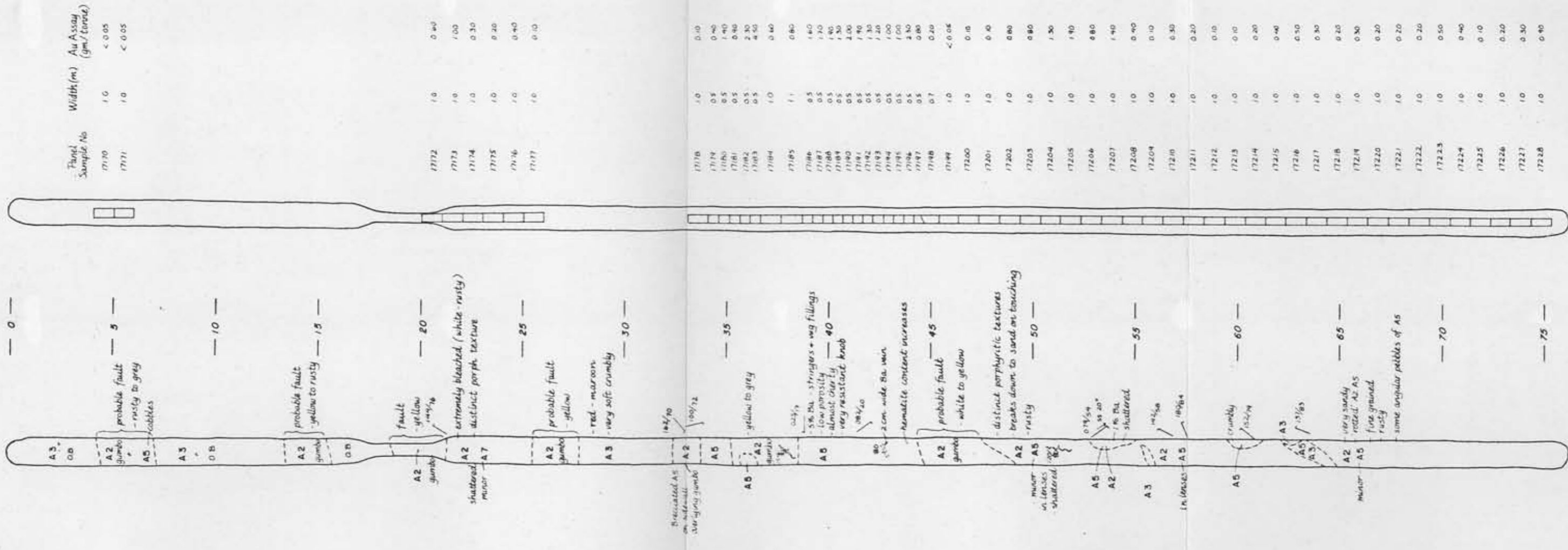
- A<sub>1a</sub> Silicified, with pyrite. Remnant clay feldspars.
- A<sub>5</sub> Silicified, no pyrite. General preservation of texture with white silicified ghosts of fragments and feldspar. Fragments up to 4cm along long axis. Hematite in matrix locally. Trace quartz eyes.
- A<sub>3</sub> Maroon/brown feldspar porphyry; local propylitic alteration; minor clays. Generally unconsolidated. Matrix contains hematite.
- A<sub>2</sub> Pervasive argillization. Primary texture preserved with distinct clay/sericitic feldspars.
- Fractures; dipping and vertical
- Alteration trend
- Observed contacts
- Slickensides
- Pyrite
- Barite

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AI Property  
BINGO ZONE  
TR A-85-15



|                |             |          |
|----------------|-------------|----------|
| Date Oct, 1985 | NTS: 94E/6W | Figure 7 |
| Revised        |             |          |



**LEGEND**

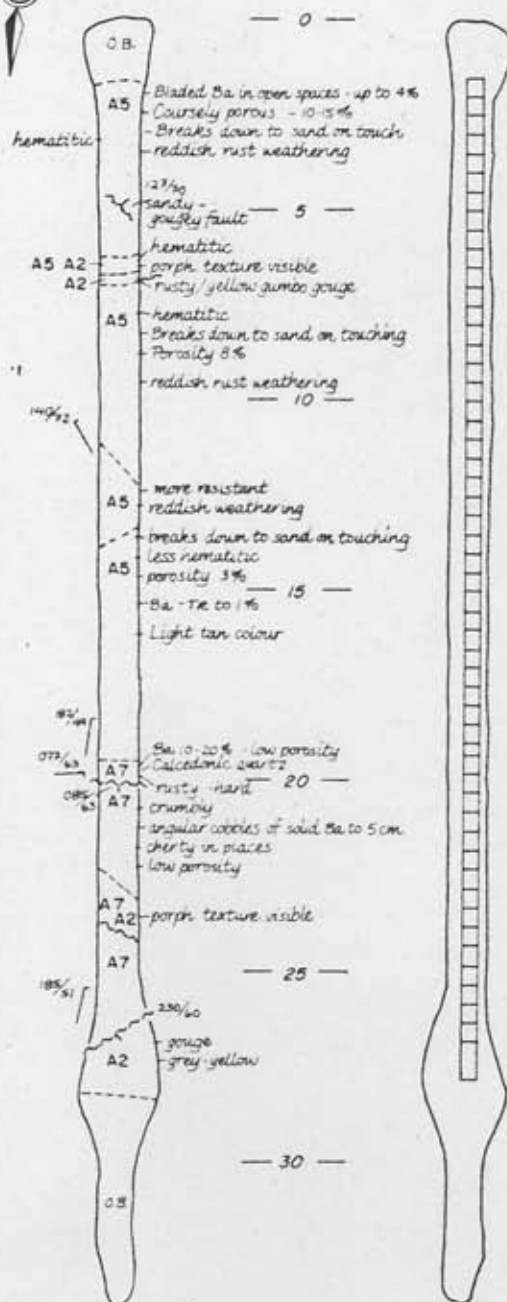
- A7 Silicified with pyrite. Remnant clay feldspars.
- A5 Silicified, no pyrite. General preservation of texture with white silicified ghosts of fragments and feldspar. Fragments up to 4cm along long long axis. Hematite in matrix locally. Trace quartz eyes.
- A3 Maroon/brown feldspar porphyry; local propylitic alteration; minor clays. Generally unconsolidated. Matrix contains hematite.
- A2 Pervasive argillization. Primary texture preserved with distinct clay/sericite feldspars.
- Fractures, dipping and vertical
- Alteration trend
- Observed contacts
- Slickensides
- Baffle

**energex**  
MINERALS LTD

AI Property  
BINGO ZONE  
TR A-85-16

Scale 1:100 (1:200 when reduced)

|                |             |          |
|----------------|-------------|----------|
| Date Oct, 1985 | NTS: 94E/6W | Figure 8 |
| Revised        |             |          |



| Panel Sample No. | Width (m) | Au Assay (gm/tonne) |
|------------------|-----------|---------------------|
| 17276            | 0.5       | 1.50                |
| 17277            | 0.5       | 3.40                |
| 17278            | 0.5       | 2.50                |
| 17279            | 0.5       | 1.60                |
| 17280            | 0.5       | 0.70                |
| 17281            | 0.5       | 1.10                |
| 17282            | 0.5       | 2.20                |
| 17283            | 0.5       | 1.95                |
| 17284            | 0.5       | 1.25                |
| 17285            | 0.5       | 0.70                |
| 17286            | 0.5       | 1.55                |
| 17287            | 0.5       | 1.65                |
| 17288            | 0.5       | 4.45                |
| 17289            | 0.5       | 3.10                |
| 17290            | 0.5       | 2.40                |
| 17291            | 0.5       | 1.20                |
| 17292            | 0.5       | 2.60                |
| 17293            | 0.5       | 1.60                |
| 17294            | 0.5       | 2.30                |
| 17295            | 0.5       | 2.00                |
| 17296            | 0.5       | 2.60                |
| 17297            | 0.5       | 1.50                |
| 17298            | 0.5       | 1.50                |
| 17299            | 0.5       | 1.30                |
| 17300            | 0.5       | 2.00                |
| 17301            | 0.5       | 1.45                |
| 17302            | 0.5       | 1.70                |
| 17303            | 0.5       | 1.50                |
| 17304            | 0.5       | 1.70                |
| 17305            | 0.5       | 0.90                |
| 17306            | 0.5       | 2.60                |
| 17307            | 0.5       | 0.70                |
| 17308            | 0.5       | 0.90                |
| 17309            | 0.5       | 1.40                |
| 17310            | 0.5       | 1.00                |
| 17311            | 0.5       | 0.85                |
| 17312            | 0.5       | 0.55                |
| 17313            | 0.5       | 1.60                |
| 17314            | 0.5       | 1.00                |
| 17315            | 0.5       | 0.70                |
| 17316            | 0.5       | 1.00                |
| 17317            | 0.5       | 0.45                |
| 17318            | 0.5       | 0.55                |
| 17319            | 0.5       | 0.65                |
| 17320            | 0.5       | 0.55                |
| 17321            | 0.5       | 0.50                |
| 17322            | 0.5       | 0.30                |
| 17323            | 0.5       | 0.60                |
| 17324            | 0.5       | 0.55                |
| 17325            | 0.5       | 0.40                |
| 17326            | 0.5       | 1.30                |
| 17327            | 0.5       | 1.30                |

\* 1.0 ← 6reb 0.10

**LEGEND**

- A7 Silicified with pyrite. Remnant clay feldspars.
- A5 Silicified, no pyrite. General preservation of texture with white silicified ghosts of fragments and feldspar. Fragments up to 4cm along long axis. Hematite in matrix locally. Trace quartz eyes.
- A2 Pervasive argillization. Primary texture preserved with distinct clay/sericite feldspars.
- Fractures, dipping and vertical
- Alteration trend
- Observed contact
- Slickensides
- Pyrite
- Barite

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AI Property  
BINGO ZONE

TR A-85-17

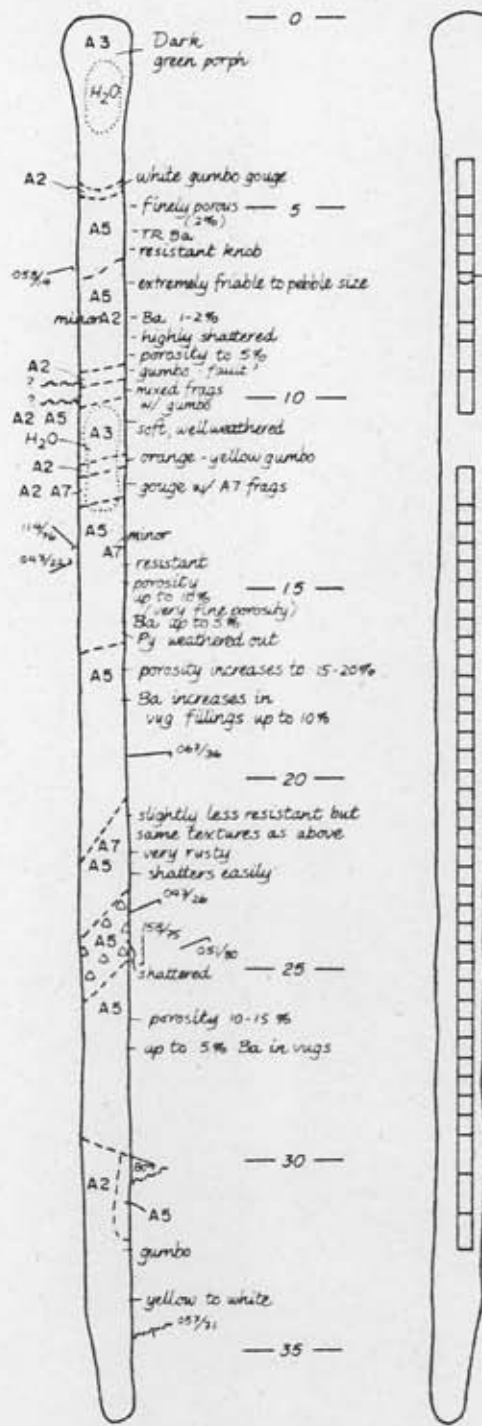


Scale 1:100 (1:200 when reduced)

Date: Oct, 1985

NTS: 94E/6W

Figure: 9



| Panel Sample No. | Width (m) | Au Assay (gm/tonne) |
|------------------|-----------|---------------------|
| 17229            | 1.0       | 0.20                |
| 17230            | 0.5       | 2.60                |
| 17231            | 0.5       | 0.10                |
| 17232            | 0.5       | 0.05                |
| 17233            | 0.5       | < 0.05              |
| 17234            | 0.3       | 0.40                |
| 17235            | 1.0       | 2.10                |
| 17236            | 0.5       | 2.30                |
| 17237            | 0.8       | 1.70                |
| 17238            | 1.1       | 0.40                |
| 17239            | 1.0       | 0.20                |
| 17240            | 0.5       | 1.10                |
| 17241            | 0.5       | 1.90                |
| 17242            | 0.5       | 1.30                |
| 17243            | 0.5       | 0.75                |
| 17244            | 0.5       | 0.80                |
| 17245            | 0.5       | 0.80                |
| 17246            | 0.5       | 1.20                |
| 17247            | 0.5       | 0.90                |
| 17248            | 0.5       | 0.90                |
| 17249            | 0.5       | 1.00                |
| 17250            | 0.5       | 1.50                |
| 17251            | 0.5       | 0.70                |
| 17252            | 0.5       | 2.80                |
| 17253            | 0.5       | 1.80                |
| 17254            | 0.5       | 0.80                |
| 17255            | 0.5       | 4.40                |
| 17256            | 0.5       | 3.20                |
| 17257            | 0.5       | 2.70                |
| 17258            | 0.5       | 1.70                |
| 17259            | 0.5       | 2.00                |
| 17260            | 0.5       | 2.70                |
| 17261            | 0.5       | 1.70                |
| 17262            | 0.5       | 1.80                |
| 17263            | 0.5       | 1.70                |
| 17264            | 0.5       | 1.20                |
| 17265            | 0.5       | 0.70                |
| 17266            | 0.5       | 1.20                |
| 17267            | 0.5       | 0.40                |
| 17268            | 0.5       | 1.60                |
| 17269            | 0.5       | 1.10                |
| 17270            | 0.5       | 1.95                |
| 17271            | 0.5       | 1.80                |
| 17272            | 0.5       | 1.45                |
| 17273            | 1.0       | 0.50                |
| 17274            | 1.0       | 0.15                |
| 17275            | 1.0       | 0.05                |

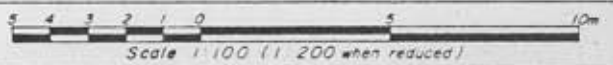


**LEGEND**

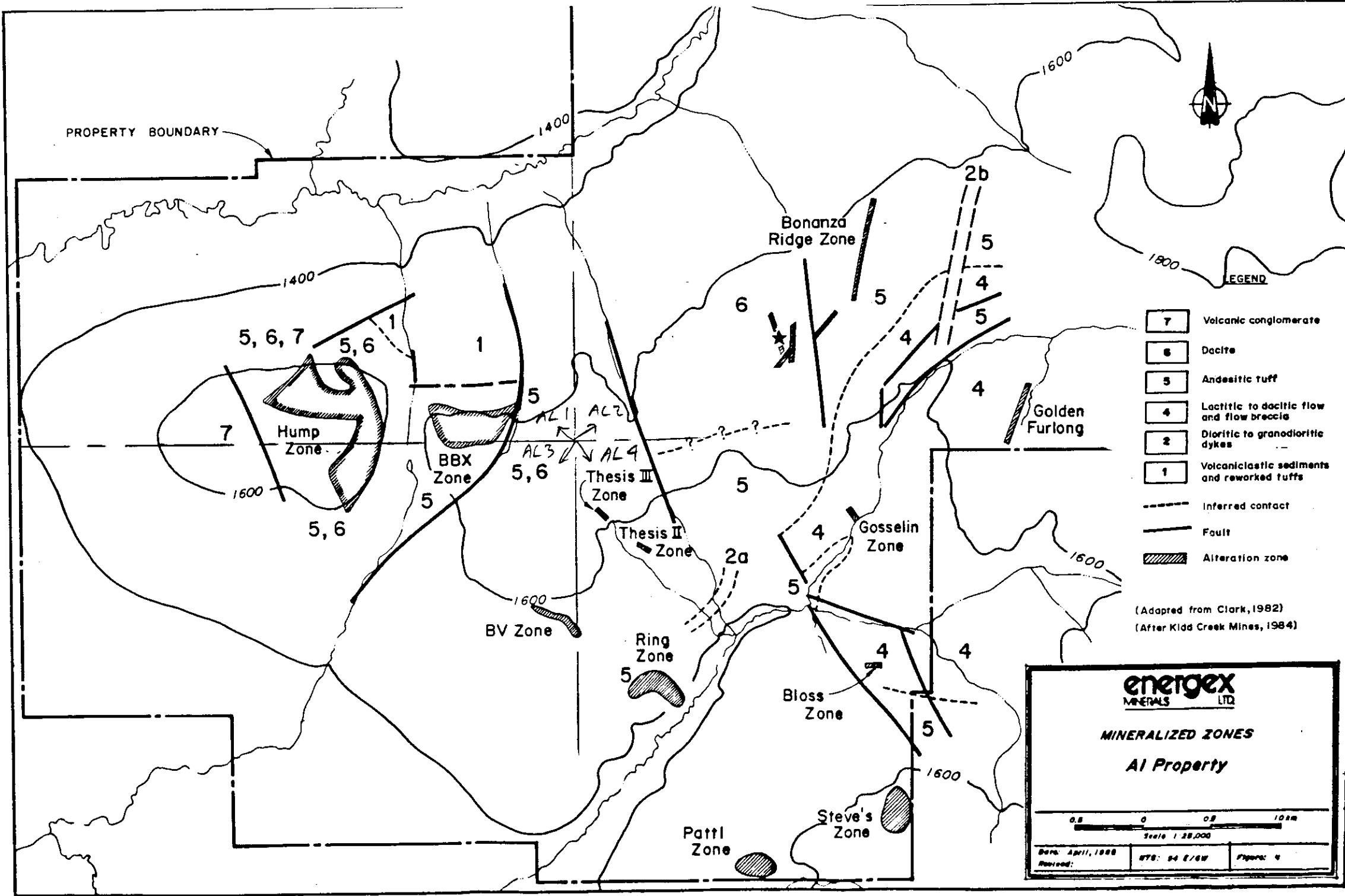
- A7 Silicified with pyrite. Remnant clay feldspars.
- A5 Silicified, no pyrite. General preservation of texture with white silicified ghosts of fragments and feldspar. Fragments up to 4cm along long axis. Hematite in matrix locally. Trace quartz eyes.
- A3 Maroon/brown feldspar porphyry; local propylitic alteration; minor clays. Generally unconsolidated. Matrix contains hematite.
- A2 Pervasive argillization. Primary texture preserved with distinct clay/sericite feldspars.
- Fractures, dipping and vertical
- Alteration trend
- Observed contacts
- Slickensides
- Py Pyrite
- ba Barite

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AI Property  
BINGO ZONE  
TR A-85-18



Date: Oct, 1985  
Revised  
NTS: 94E/6W  
Figure 10



from Assessment Report 10457

Geologic characteristics of the Bingo deposit are typical of hot spring deposition. Several drill holes through this structure are warranted to test the probability that gold mineralization occurs at specific elevations, stacked within the ancient geothermal system, along the structure.

B. BV Deposit

The BV deposit was discovered by Kidd Creek Mines Ltd. in 1984 while prospecting in the vicinity of three gold geochemical anomalies on a well treed, poorly drained southwest facing hillside, between the 1550 meter and 1620 meter elevations. Late in that field season, Kidd Creek undertook limited backhoe trenching and diamond drilling along the gold bearing structure. Infill drilling between 1984 trenches and drill holes was undertaken by Energex in July 1985, totalling 483 meters of HQ diameter core in 11 holes. Drill hole spacing along the BV structure now averages 30 meters in the northwestern sections where the highest grade gold mineralization occurs.

The BV structure, which remains open along strike in both directions, has been traced for over 500 meters along its northwesterly trend. Average width of mineralized surface exposures is 5 meters. On surface, in some places, the vein width is enhanced, and what appears to be two parallel mineralized zones with a repetitious barite-quartz sequence has probably been caused by overlap due to faulting of a single structure.

A 120 meter long section of the BV vein towards the southeastern end of the proven structure failed to carry significant gold values on surface and so has not yet been drilled. Considering the faulting which has disjointed the mineralization along the BV structure, it is not surprising to find discontinuities of this nature. It is recommended that this area be tested by drilling to check for the probable fault offset mineralization at depth.

Drilling indicates BV mineralization persists to a depth of at least 50 meters. The structure appears to be narrowing at depth; however, repetition and stacking due to dislocation by faulting often results in an overall thickening of the mineralized section. The structure is thought to

be vertical or steeply dipping in a northerly direction. Grade of gold mineralization appears to be independent of depth below surface.

This deposit differs from the Thesis III and Bonanza areas in that the overall mineralized structure is narrower and more vein-like, with a longer strike length. This deposit does not display the wide pervasively argillized and porous silicified zones characteristic of the upper level epithermal deposits such as the Thesis III and Bonanza areas but may represent a silicified and rebrecciated longitudinal fault. The BV deposit possibly represents a linear epithermal system typically found deeper than the Thesis III and Bonanza-type near surface deposits. Less pyrite, the occurrence of minor galena and chalcopyrite and less pyrite associated with gold mineralization, and the higher than average amount of silver (for the Albert's Hump area) and the presence of quartz in the form of chalcedonic veins instead of frothy sinters are all clues to the deeper emplacement of the BV mineralization.

A significant similarity of the BV deposit to the other gold bearing zones of the Albert's Hump area is the strong compatibility of gold and barite mineralization. Although the barite is more massive and veinlike than in other localities, high grade gold is still closely associated with the highest percentages of barite in the rock.

Holes A85-12 to 22 were drilled along the BV structure in 1985 to test sections between drill holes and trenches completed in 1984 by Kidd Creek Mines Ltd. Drill sites were chosen where adequate drainage and solid ground permitted access for the bulldozer and drill; however, the thawing ground frost in July still created problems in manoeuvring heavy equipment. In future it is recommended that any program involving heavy equipment on the BV structure be conducted later in August when the ground has dried and stabilized to some extent.

Poor drainage along eastern strike extensions of the BV structure will restrict access of heavy equipment during future exploration in this area of the deposit.

Core recovery was excellent and drilling in this area is considered good, although a bit slower than normal as the rocks are very hard.

Mineralization found at depth and at surface between drill holes A85-14 and A85-21 (see Figures 13 and 17) occurs in two semi-parallel bands referred to herein as the northern and southern zone. The northern zone usually has consistently and distinctly higher grade gold mineralization than the parallel zone to the south. The multiple zones are believed to be faulted segments of the same structure.

The best mineralized intersections (uncut) encountered in 1985 are listed in the table below.

**Table 3**  
**BV ZONE**  
**SIGNIFICANT DRILL INTERCEPTS - 1985 DRILLING**

| <u>LOCATION</u> | <u>INTERSECTION</u>       |                         |                               | <u>WEIGHTED AVERAGE</u>       |
|-----------------|---------------------------|-------------------------|-------------------------------|-------------------------------|
|                 | <u>From</u><br><u>(m)</u> | <u>To</u><br><u>(m)</u> | <u>Interval</u><br><u>(m)</u> | <u>Grams/</u><br><u>tonne</u> |
| A85-12          | 11.58                     | 12.69                   | 1.11                          | 7.25                          |
| and             | 40.72                     | 42.72                   | 2.00                          | 13.15                         |
| A85-13          | 13.15                     | 15.93                   | 2.78                          | 1.92                          |
| includes        | 15.15                     | 15.93                   | 0.78                          | 3.22                          |
| A85-14          | 19.41                     | 21.91                   | 2.50                          | 10.23                         |
| includes        | 20.41                     | 21.41                   | 1.00                          | 19.74                         |
| A85-15          | 47.76                     | 48.76                   | 1.00                          | 8.68                          |
| and             | 58.69                     | 59.69                   | 1.00                          | 6.88                          |
| A85-16          | 6.75                      | 9.75                    | 3.00                          | 2.72                          |
| A85-17          | 5.94                      | 7.44                    | 1.50                          | 6.69                          |
| A85-18          | 13.41                     | 14.14                   | 0.73                          | 18.34                         |
| and             | 16.14                     | 17.38                   | 1.24                          | 2.54                          |
| A85-19          | 9.81                      | 17.31                   | 7.50                          | 6.07                          |
| includes        | 9.81                      | 11.31                   | 1.50                          | 13.64                         |
| A85-20          | 11.74                     | 19.21                   | 7.47                          | 3.89                          |
| includes        | 11.74                     | 12.74                   | 1.00                          | 11.68                         |
| and             | 12.24                     | 12.74                   | 0.50                          | 16.92                         |
| A85-21          | 30.57                     | 33.07                   | 2.50                          | 2.84                          |
| includes        | 30.57                     | 32.07                   | 1.50                          | 3.65                          |

A brief description for each hole drilled in 1985 is found below.



A85-12

Drilled approximately 20 meters east of Kidd Creek's best mineralized hole on the BV structure (A84-11), hole A85-12 encountered similar geology and comparable grades to that hole. Two main mineralized sections were intersected and each is separated by a wide unmineralized section of maroon volcanics. Refer to Figure 12.

Faulting is evidenced in both mineralized sections which are enveloped by an argillized 'gumbo' fault gouge. Each mineralized section displays brecciation of silicified volcanics (A<sub>7</sub>) and chalcedonic quartz veining + barite. Contacts of the mineralized sections with the maroon porphyritic volcanics are distinct.

The hole was drilled at a -45° angle and an azimuth of 200°. Total depth was 46.64 meters.

A85-13

This hole was drilled from the same setup as A85-12 at an angle of -65° and azimuth of 200°. Total depth of the hole is 61.58 meters.

One mineralized section of brecciated, silicified volcanics (A<sub>7</sub>) and chalcedonic quartz veining, bounded by clay-rich (A<sub>2</sub>) fault gouge, was encountered in this hole.

A85-14

This hole was drilled 25 meters east of holes A85-12 and 13 to test the BV structure beneath trench TA-84-31. The hole, drilled at -45° at an azimuth of 200° (total depth 48.17 m.) encountered one mineralized section of brecciated pyritic chalcedonic quartz veining and barite.

Surface trenching immediately above hole A85-14 (trench TA-84-31) encountered two distinct mineralized sections separated by brecciated and argillized porphyritic volcanics reflecting the presence of a fault. Our model proposes that the two mineralized sections on surface are faulted segments of one mineralized structure. The mineralized section encountered in hole A85-14 is part of that same structure. See Figures 11 and 13.

A85-15

Drilled 15 meters west of hole A84-11, this hole was aimed at the BV structure and a northwesterly trending splay off the main vein. The hole encountered two low grade gold mineralized sections near the top and two higher grade zones at depth. Unaltered maroon volcanics exist between all the zones. Three of the sections with the most significant gold mineralization contain chalcedonic quartz breccia + barite. See Figure 14.

A85-16 and A85-17

These two holes were drilled from the same setup at  $-45^{\circ}$  and  $-64^{\circ}$  angles respectively with an azimuth of  $208^{\circ}$ . The holes represent the southeasternmost drilling on the BV structure and were drilled beneath trench TA 84-36 (the discovery showing). Each hole encountered a single, gold mineralized section bounded below by a wide section of clay altered (A<sub>2</sub>) porphyritic volcanics, and above by a narrow section of same. The holes showed comparable geology with respect to faults, alteration and mineralization. Projection of the mineralized sections suggests the structure is more shallowly dipping towards the southeast than at its northern end. (Figure 15).

A85-18 and A85-19

These two holes were drilled from the same setup as hole A84-13 and adjacent to trench TA 84-26. Hole A85-18 was drilled at  $-83^{\circ}$  and hole A85-19 was drilled at  $-70^{\circ}$ . Both were drilled on an azimuth of  $195^{\circ}$ .

This section of drilling exposed the most complex system of faults encountered to date on the BV structure.

Hole A85-18 intersected one gold mineralized section while hole A85-19 encountered three closely spaced mineralized sections. A 1 meter wide barite vein and lack of unaltered volcanics separating the mineralized sections suggest the vein was faulted directly on top of itself in this locality (Figure 16).

A85-20 and A85-21

Holes A85-20 and 21 were drilled 19 meters apart along the same section line at a 195° azimuth. Hole A85-20 was drilled at -45° and hole A85-21 was drilled at -70°.

Hole A85-20 encountered two 20 cm. wide veins of massive barite separated by brecciated silicified (A7) rock. Gold values obtained from this hole were lower than anticipated although the mineralized section was very wide (14 m.).

Hole A85-21 cut two closely spaced breccia zones separated by silicified (A5) maroon porphyry.

Mineralized sections in both holes probably represent overlap of the mineralizing structure (Figure 17).

A85-22

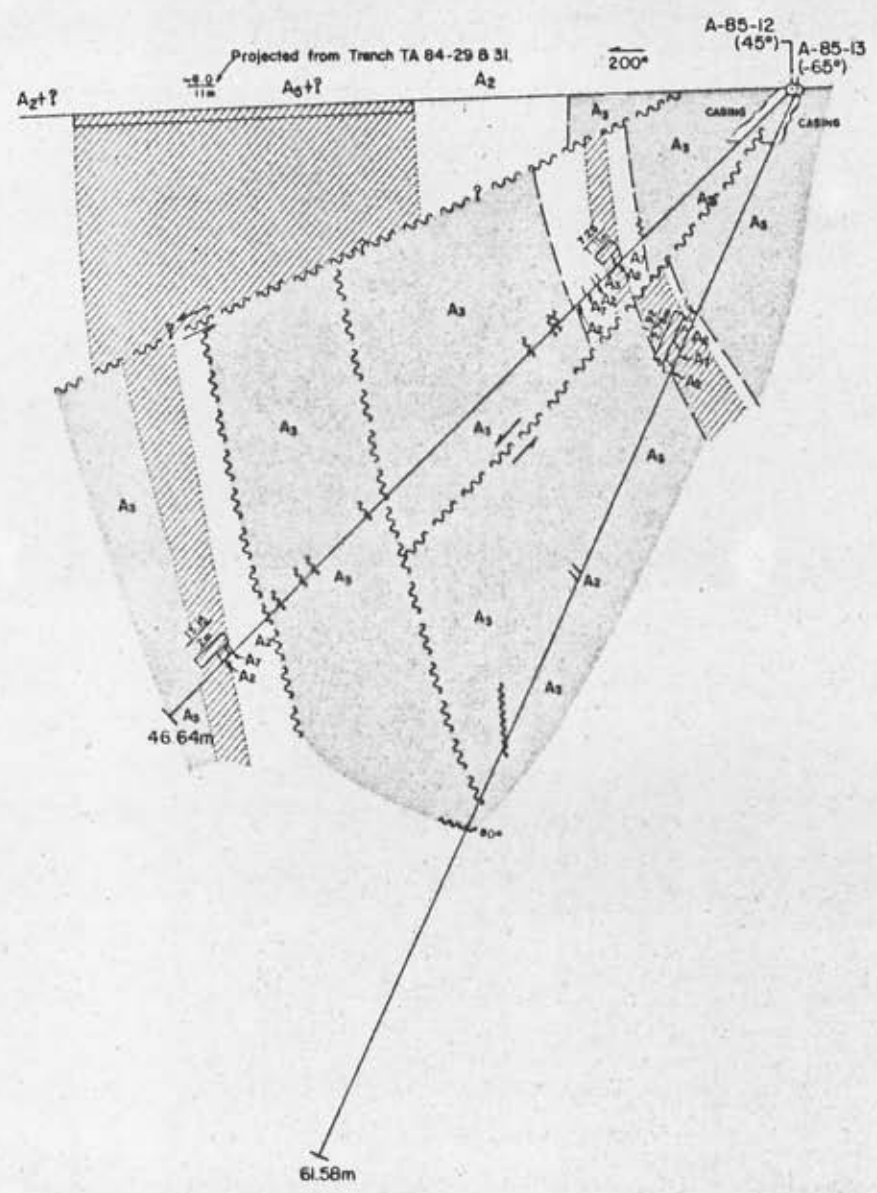
This hole was drilled at the northwestern end of the BV structure and failed to intersect the gold mineralization. It is now thought the collar of the hole was set too far back and the hole was drilled short. Along its strike, the BV structure appears to be offset by a series of faults and it is believed Hole 22 missed the structure because of fault offset.

It is recommended that before next field season, research as to the most effective means of geophysically testing this type of deposit be implemented, and such a survey should be run during the early part of the field season (across the BV structure) as heavy equipment access and manoeuverability to the extremities of the BV structure are limited by poor drainage and ground frost conditions. A geophysical survey should be completed prior to August in order to design a surface trenching and drilling program based on the results, to be started later in the field season.

The BV structure should be drilled to a minimum depth of 100 meters below ground surface to test its continuity. It is recommended that the deep testing be started beneath the widest and most highly mineralized surface exposures of the zone between trenches TA 84-29 and 31.

ELEVATION

1610m  
1600m  
1590m  
1580m  
1570m  
1560m  
1550m  
1540m



ELEVATION

1610m  
1600m  
1590m  
1580m  
1570m  
1560m  
1550m  
1540m

LEGEND

- LITHOLOGY**  
 ALTERED ANDESITIC FLOW
- ALTERATION**
- A<sub>1</sub>** minor propylitic alteration
  - A<sub>2</sub>** Argillic
  - A<sub>3</sub>** Silicification
  - A<sub>7</sub>** Silicification + pyrite
  - B<sub>0</sub>** Barite
- SYMBOLS**
- Mineralized zone  $\frac{\text{Au (ppm/ft)}}{\text{meters}}$  (ASSAY)
  - Highly mineralized zone
  - Alteration or geologic contact
  - Gold mineralization boundary
  - Fault
  - Breccia
- NOTE: All geologic projections inferred.

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BY DEPOSIT  
 DRILL SECTION FOR  
 HOLES A-85-12 & A-85-13

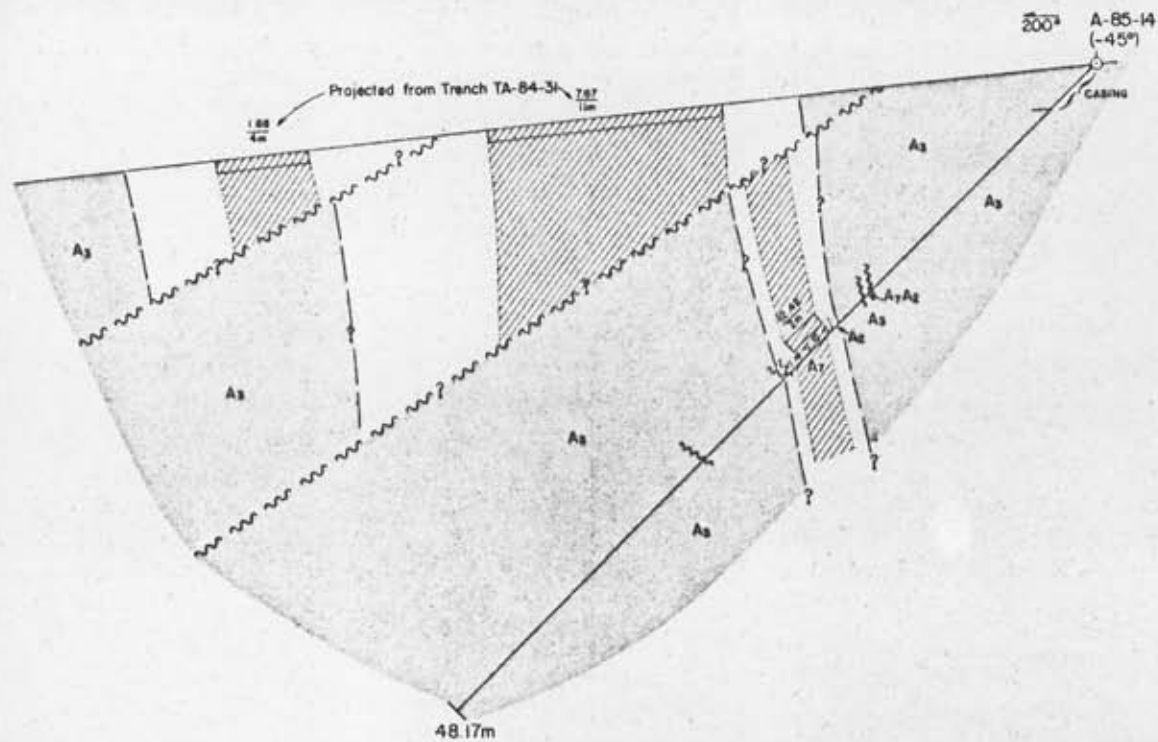
DRILLED JULY 9 & 10, 1985

SCALE 1:200

DATE NOV, 1988  
 REVISED: NTS FILE# 12

ELEVATION

1610m  
1600m  
1590m  
1580m  
1570m  
1560m  
1550m  
1540m



ELEVATION

1610m  
1600m  
1590m  
1580m  
1570m  
1560m  
1550m  
1540m

**LEGEND**

**LITHOLOGY**

ALTERED ANDESITIC FLOW

**ALTERATION**

- minor propylitic alteration
- Argillic
- Silicification
- Silicification + pyrite
- Barite

**SYMBOLS**

- Mineralized zone Au (gm/mt) (ASSAY)
- Highly mineralized zone
- Alteration or geologic contact
- Gold mineralization boundary
- Fault
- Breccia

NOTE: All geologic projections inferred.

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BV DEPOSIT  
DRILL SECTION FOR  
HOLE A-85-14

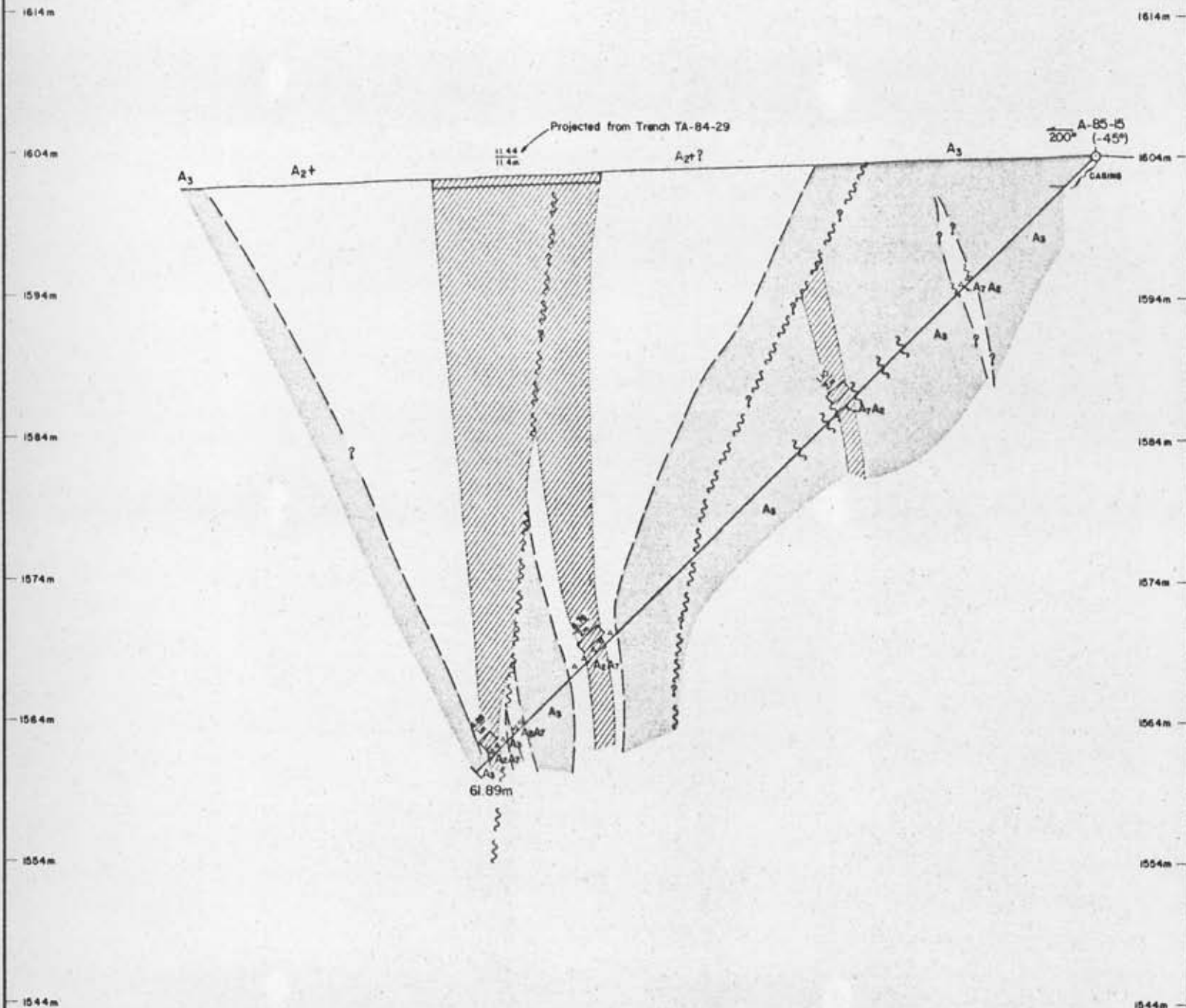
DRILLED JULY 11, 1985



|               |          |      |           |
|---------------|----------|------|-----------|
| DATE NOV 1988 | REVISED: | MTS: | FIGURE 13 |
|---------------|----------|------|-----------|

ELEVATION

ELEVATION



LEGEND

LITHOLOGY

ALTERED ANDESITIC FLOW

ALTERATION

- minor propylitic alteration
- A<sub>2</sub> Argillic
- A<sub>3</sub> Silicification
- A<sub>7</sub> Silicification + pyrite
- Ba Barite

SYMBOLS

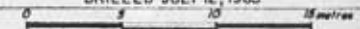
- Mineralized zone  $\frac{\text{Au (gm/ton)}}{\text{metres}}$  (ABBAY)
- Highly mineralized zone
- Alteration or geologic contact
- Gold mineralization boundary
- Fault
- Breccia

NOTE: All geologic projections inferred.

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BV DEPOSIT  
DRILL SECTION FOR  
HOLE A-85-15

DRILLED JULY 12, 1985



SCALE 1:200

DRAWN NOV 1988  
REVISED:

NTS

FIGURE 1/1

ELEVATION

1567m

1557m

1547m

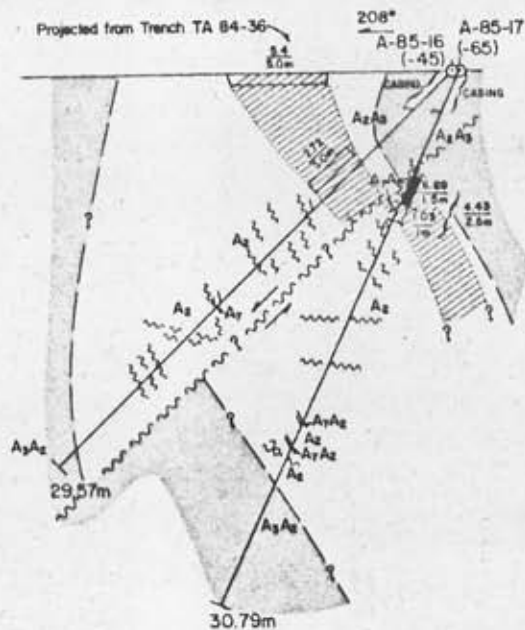
1537m

1527m

1517m

1507m

1497m



ELEVATION

1567m

1557m

1547m

1537m

1527m

1517m

1507m

1497m

LEGEND

LITHOLOGY

ALTERED ANDESITIC FLOW

ALTERATION

- A<sub>1</sub> minor propylitic alteration
- A<sub>2</sub> Argillic
- A<sub>3</sub> Silicification
- A<sub>7</sub> Silicification + pyrite
- Ba Barite

SYMBOLS

- Mineralized zone  $\frac{Au \text{ (gm/te)}}{\text{metres}}$  (ASSAY)
- Highly mineralized zone
- Alteration or geologic contact
- Gold mineralization boundary
- Fault
- Breccia

NOTE: All geologic projections inferred.

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BY DEPOSIT  
DRILL SECTION FOR  
HOLES A-85-16, & A-85-17

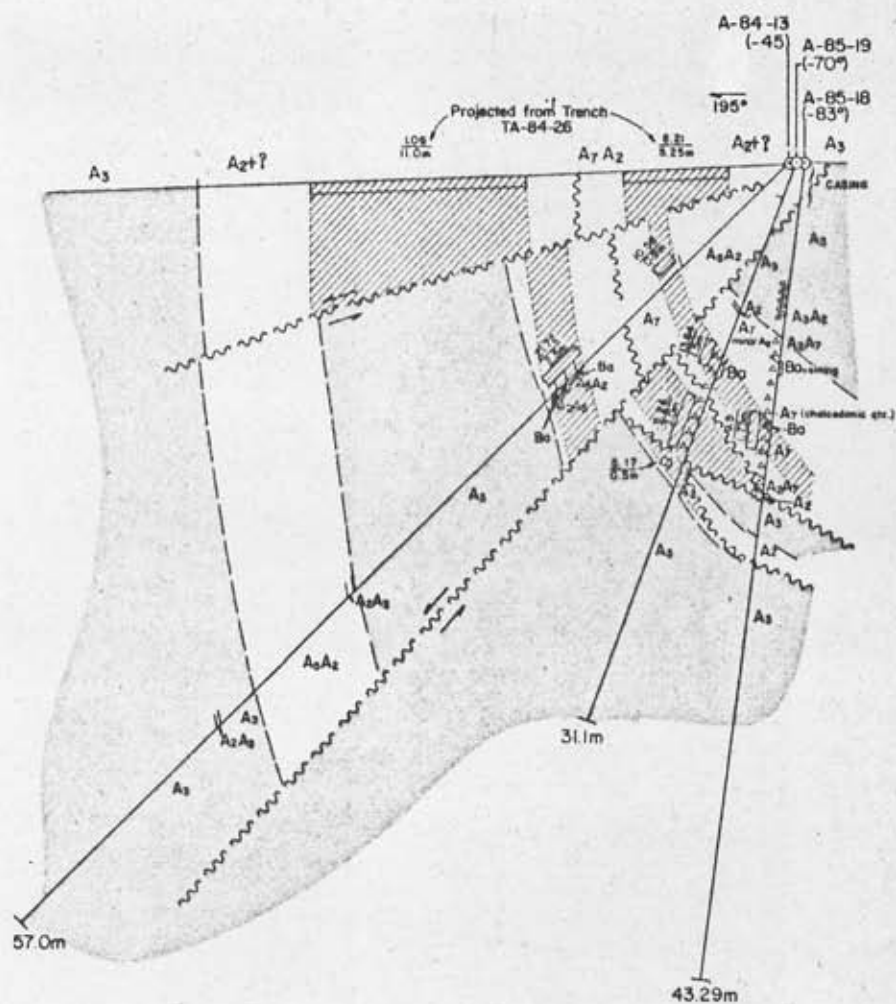
DRILLED JULY 12, 1985

SCALE 1:200

DATE NOV, 1985  
REVISED NTS FIGURE 15

ELEVATION

1600m  
1590m  
1580m  
1570m  
1560m  
1550m  
1540m  
1530m



ELEVATION

1600m  
1590m  
1580m  
1570m  
1560m  
1550m  
1540m  
1530m

## LEGEND

## LITHOLOGY

ALTERED ANDESITIC FLOW

## ALTERATION

- minor propylitic alteration  
 Argillic  
 Silicification  
 Silicification + pyrite  
 Barite

## SYMBOLS

- Mineralized zone  $\frac{\text{Au (gm/te)}}{\text{metres}}$  (ASSAY)  
 Highly mineralized zone  
 Alteration or geologic contact  
 Gold mineralization boundary  
 Fault  
 Breccia  
 NOTE: All geologic projections inferred.

**energex**  
MINERALS LTD.

BV DEPOSIT  
DRILL SECTION FOR  
HOLES A-85-18,19 & A-84-13

DRILLED JULY 13,14,1985

0 5 10 15 metres

SCALE 1:200

DATE NOV, 1988  
REVISED

NTS

FIGURE 16



ELEVATION

1597m

1587m

1577m

1567m

1557m

1547m

1537m

1527m

ELEVATION

1597m

1587m

1577m

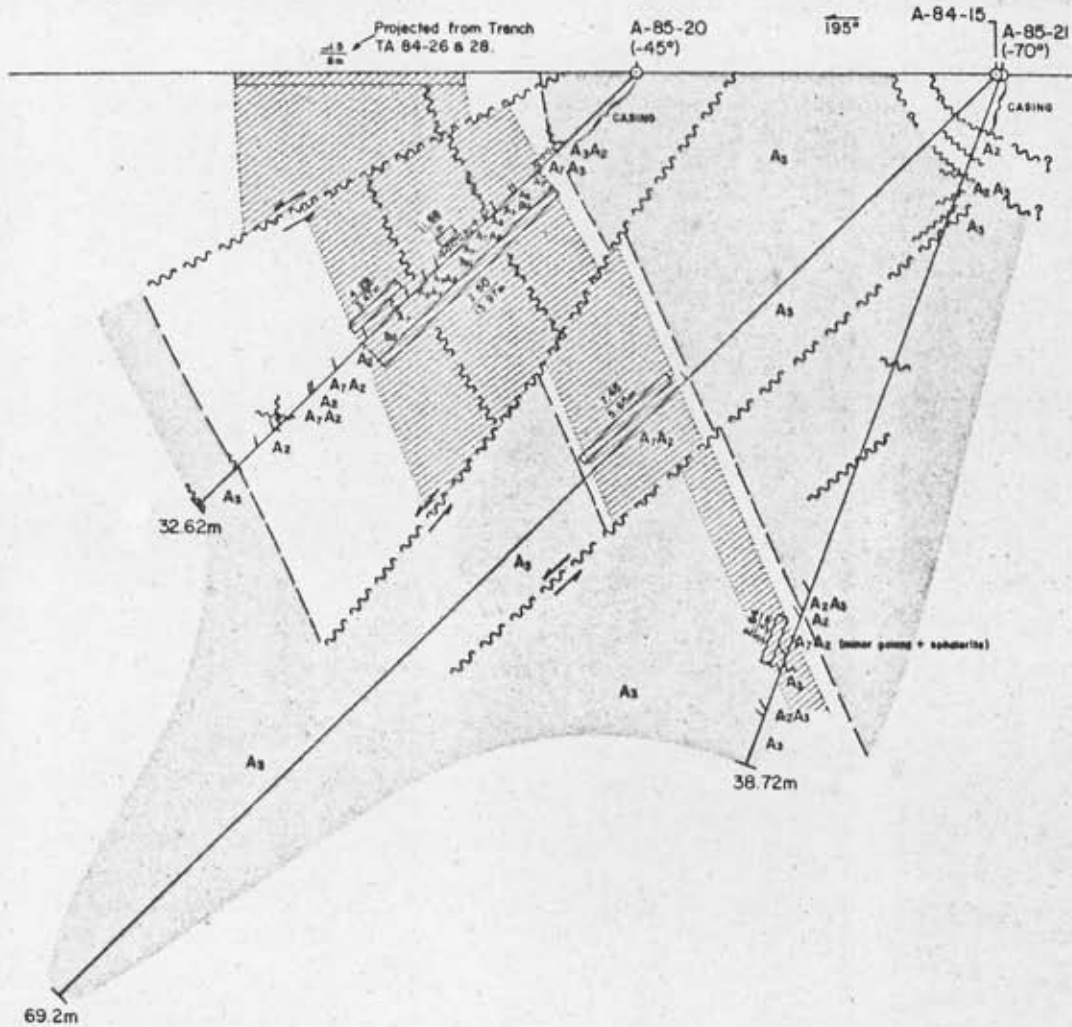
1567m

1557m

1547m

1537m

1527m



**LEGEND**

**LITHOLOGY**

ALTERED ANDESITIC FLOW

**ALTERATION**

- A<sub>1</sub> minor propylitic alteration
- A<sub>2</sub> Argillic
- A<sub>3</sub> Silicification
- A<sub>7</sub> Silicification + pyrite
- Ba Barite

**SYMBOLS**

- Mineralized zone  $\frac{Au (gm/ton)}{meters}$  (ASSAY)
  - Highly mineralized zone
  - Alteration or geologic contact
  - Gold mineralization boundary
  - Fault
  - Breccia
- NOTE: All geologic projections inferred

**energex**  
MINERALS LTD

BV DEPOSIT

DRILL SECTION FOR  
HOLES A-85-20,21 & A-84-15

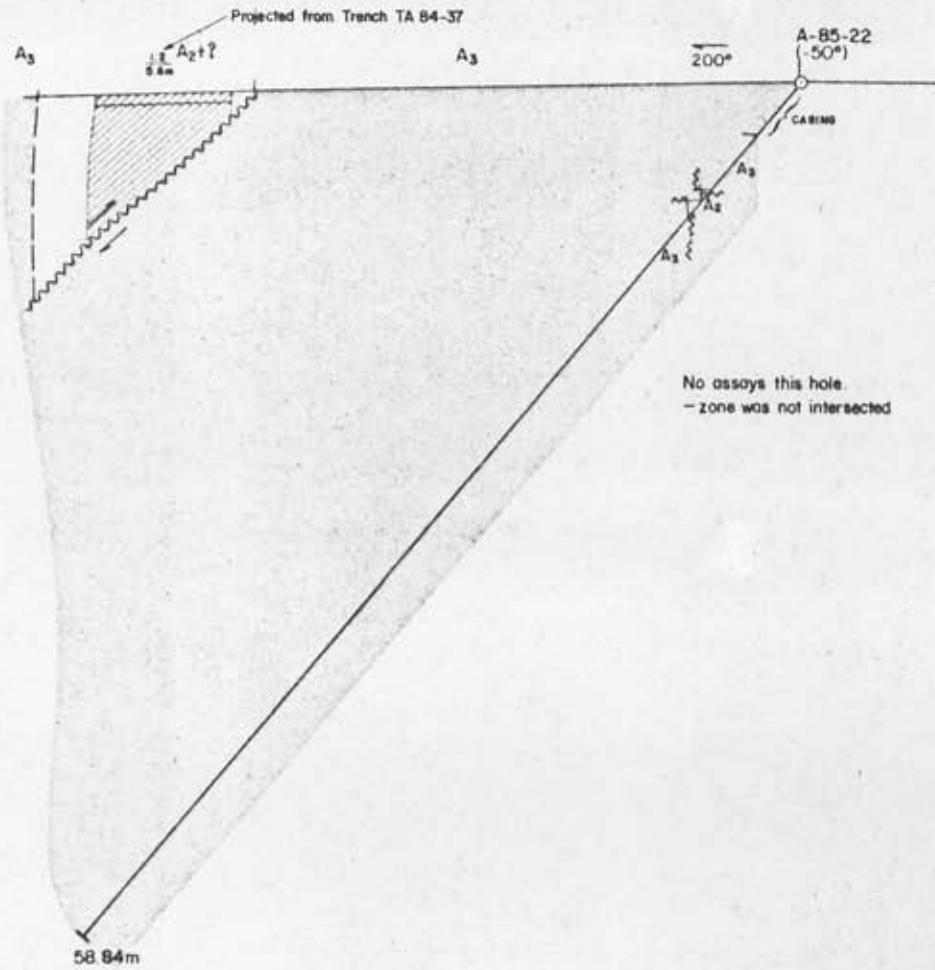
DRILLED JULY 14 & 15, 1985

0 5 10 20 meters  
SCALE 1:200

DATE: NOV, 1985  
REVISED: NTS  
FIGURE 17

ELEVATION

1625 m  
1615 m  
1605 m  
1595 m  
1585 m  
1575 m  
1565 m  
1555 m



ELEVATION

1625 m  
1615 m  
1605 m  
1595 m  
1585 m  
1575 m  
1565 m  
1555 m

LEGEND

LITHOLOGY

ALTERED ANDESITIC FLOW

ALTERATION

- A<sub>1</sub> minor propylitic alteration
- A<sub>2</sub> Argillic
- A<sub>3</sub> Silicification
- A<sub>7</sub> Silicification + pyrite
- Ba Barite

SYMBOLS

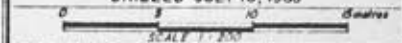
- Mineralized zone  $\frac{\text{Au (gm/mt) (ASSAY)}}{\text{m}^2 \text{area}}$
- Highly mineralized zone
- Alteration or geologic contact
- Gold mineralization boundary
- Fault
- Breccia

NOTE: All geologic projections inferred.

**energex**  
MINERALS LTD.

BY DEPOSIT  
DRILL SECTION FOR  
HOLE A-85-22

DRILLED JULY 16, 1985



SCALE 1:200  
DATE NOV 1985  
REVISED: NTS- FIGURE 18

C. Thesis III Deposit

The Thesis III gold deposit is hosted by a complex epithermal alteration system located on the A1 3 and 4 claims. Gold mineralization was first indicated by a weakly anomalous gold value (115 ppb) in a soil geochemical sample taken by Kidd Creek Mines in 1981; detailed follow-up soil geochemical sampling in 1983 returned gold values of up to 3,300 ppb within a 200 meter x 200 meter area. This area was prospected early in the 1984 field season and native gold mineralization was discovered in a small outcrop in the core of the deposit. Subsequent backhoe trenching later in 1984, and diamond drilling in 1984 and 1985, led to the recognition of an important gold deposit.

The alteration system hosting the gold deposit comprises at least three sublinear parallel "core" zones of intense silicification, separated and surrounded by haloes of intense argillic alteration developed in porphyritic andesite. The alteration system appears to be controlled by a northwest trending fault system, which is also thought to control the Thesis II alteration zones 400 meters to the southeast.

The Thesis III alteration system has been explored by trenching along 200 meters of strike; the system is at least 100 meters wide. Gold occurs with barite within the intensely silicified "cores" of the alteration system. This mineralization is hosted by veins and breccias, thought to postdate the main hydrothermal (silicification-argillization) event.

The internal structure of the Thesis III system is complex; minor faults have displaced blocks of gold-bearing silicified rock and juxtaposed them against relatively barren argillized blocks. However, apparent lateral fault offsets rarely exceed a few meters, so the overall continuity of the zone is unaffected.

Higher grade gold mineralization is hosted by intensely silicified rock with a characteristic porous, vuggy texture, the result of leaching of corroded, clay-altered plagioclase phenocrysts. The vugs are commonly partially filled with barite crystals (druse). Spectacular masses of dendritic or 'mossy' gold, to 1 centimeter in diameter, occur on barite druse; however,

most of the gold is finer (10-100 microns) and is locked into barite grains (Sutherland, 1984).

Diamond drilling on the Thesis III deposit in 1985 was conducted in two phases; the first, involving holes A85-01 to A85-11, was designed to test the central section of the deposit, and the second, involving holes A85-30 to A85-35, mainly tested peripheral sections. A total of 945 meters of HQ core was recovered from the 17 holes.

Most holes were at 10 to 20 meter spacings and were drilled from both sides of the structure in the central part of the deposit. Four holes were drilled to provide additional information on the two sub-parallel structures.

HQ (6.3 centimeters) diameter core was used in order to improve recoveries obtained by Kidd Creek Mines Ltd. in 1984 drilling. One 1984 hole, A84-10, intersected a 16.7 meter section grading 32.25 grams/tonne gold, but recovery was poor (30%).

In the 1985 drilling, high gold values were obtained over significant core lengths in the central section of the deposit. Sections of core selected for sampling, including all silicified rock (A<sub>5</sub>), were halved using a diamond saw. Individual sample lengths were mainly 0.5 and 1.0 meters. Some of the higher grades over 0.5 meter core lengths include 710.4 grams/tonne gold, in hole A85-01, and 1375.0 grams/tonne in hole A85-10. Visible gold is readily apparent in the higher grade sections, which presents a potentially difficult sampling problem. To ameliorate this situation, samples were initially fire assayed (20 gram split) and high assays were cross-checked at a second laboratory. A program of re-assaying, using a 30 gram reject split and multiple assays, was completed in mid December 1985.

The central Thesis III deposit was drill tested on four section lines 10 to 15 meters apart and by step-out holes to the northwest and southeast. Hole A85-34, 75 meters northwest of the area of detailed drilling, intersected 2.85 grams/tonne gold over 1.5 meters. Hole A85-35, just southeast of one of the better holes (A85-10), is believed to have been drilled principally in

the hanging wall of the zone from which a 5.5 meter section assayed 3.27 grams/tonne gold. A85-33, 40 meters southwest, intersected low gold values and may have been terminated prior to intersecting the zone.

Excluding the northwest drill hole, the deposit has been tested over a strike length of nearly 100 meters and to a depth of up to 40 meters. The mineralized structure dips steeply southwest to northeast and the average true width is approximately 10 meters.

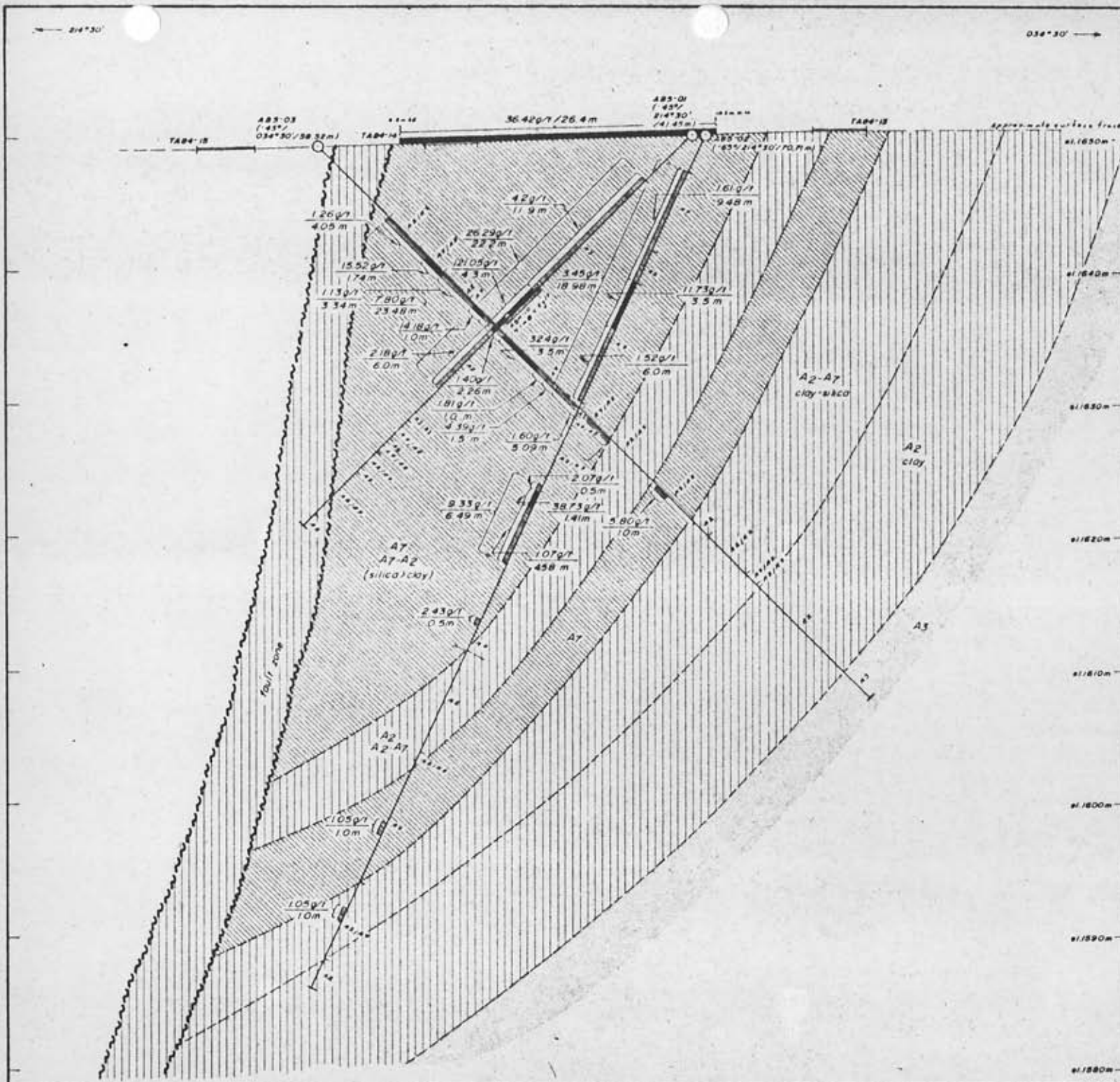
The northeast zone was tested by three drill holes in 1985. Two of these, A85-07 and -08, drilled from the same setup, intersected lower grades of mineralization (2.7 to 4.1 grams/tonne gold) over core lengths of 7.7 to 13.4 meters. The best value in hole A85-09 was 2.36 grams/tonne gold over one meter; this hole may have been drilled subparallel to the structure. Hole A85-11, drilled to test the west structure, intersected 10 meters grading 2.00 grams/tonne gold.

The 1985 drilling confirmed consistent gold mineralization in the central part of the Thesis III deposit, and left the structure open to the southeast and to depth.

Exploration work, including trenching and diamond drilling, indicates the presence of potentially economic gold mineralization in the central silicified zone of the Thesis III deposit. The gold is in native form, and occurs in barite-quartz veins and breccias within intensely silicified, porous, vuggy rock.

Drilling conditions are difficult; the 1984 program was plagued by poor core recovery and very poor ground conditions. Larger-diameter (HQ) holes drilled in 1984 alleviated the problem somewhat, but high bit consumption made the drilling cost very high. Thinwall drilling will be conducted in 1986 in an attempt to cure the problem.

To date, drilling has indicated gold mineralization along 180 meters of strike and to 40 meters depth. Widths, while quite variable, range up to 15 meters, using a 1 gram/tonne grade cutoff.



**LEGEND**

- A3 Weak pyritic alteration
- A2 intense argillization
- A2-A7 Clay with minor silicification
- A7-A2 Silicification with pyrite and minor kaolinite
- A7 intense silicification with pyrite
- Alteration/lithographic boundary
- Fault
- Mineralized zone
- Highly mineralized zone
- Trench intersecting plane of section
- Drill hole intersecting plane of section
- Assay — Au g/t width(m)

**energex**  
MINERALS LTD.

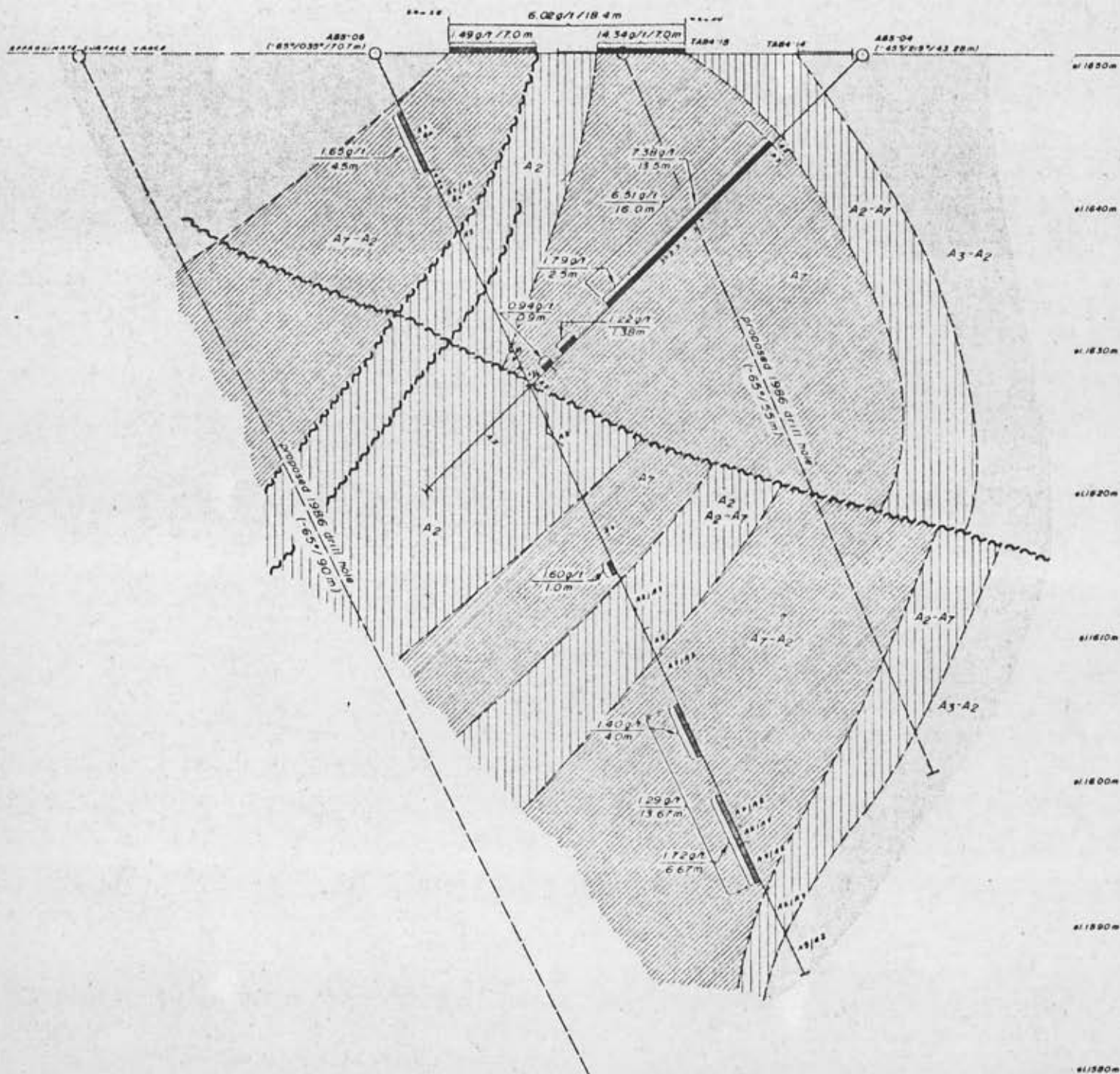
All Property  
**THEISIS III ZONE**  
**Diamond Drill Section**  
**AB5-01,02,03**  
LOOKING NORTHWEST (304°30')

0 5 10m  
Scale 1:200

|                 |             |           |
|-----------------|-------------|-----------|
| Date: Nov. 1983 | NTS: 94 E/W | Figure 22 |
| Revised:        |             |           |

215°00'

035°00'



LEGEND

- $A_3-A_2$  Propylitic alteration with minor argillization
- $A_2$  Intense argillization
- $A_2-A_7$  Clay with minor silicification
- $A_7-A_2$  Silicification with pyrite and minor kaolinite
- $A_7$  Intense silicification
- Alteration/lithographic boundary
- Fault
- Mineralized zone
- Highly mineralized zone
- Trench intersecting plane of section
- $\frac{6.51 \text{ g/t}}{7.0 \text{ m}}$  Assay - Au g/t width(m)

**energex**  
MINERALS LTD

At Property  
THESES III ZONE  
**Diamond Drill Section  
A85-04,06**  
LOOKING NORTHWEST (304°00')

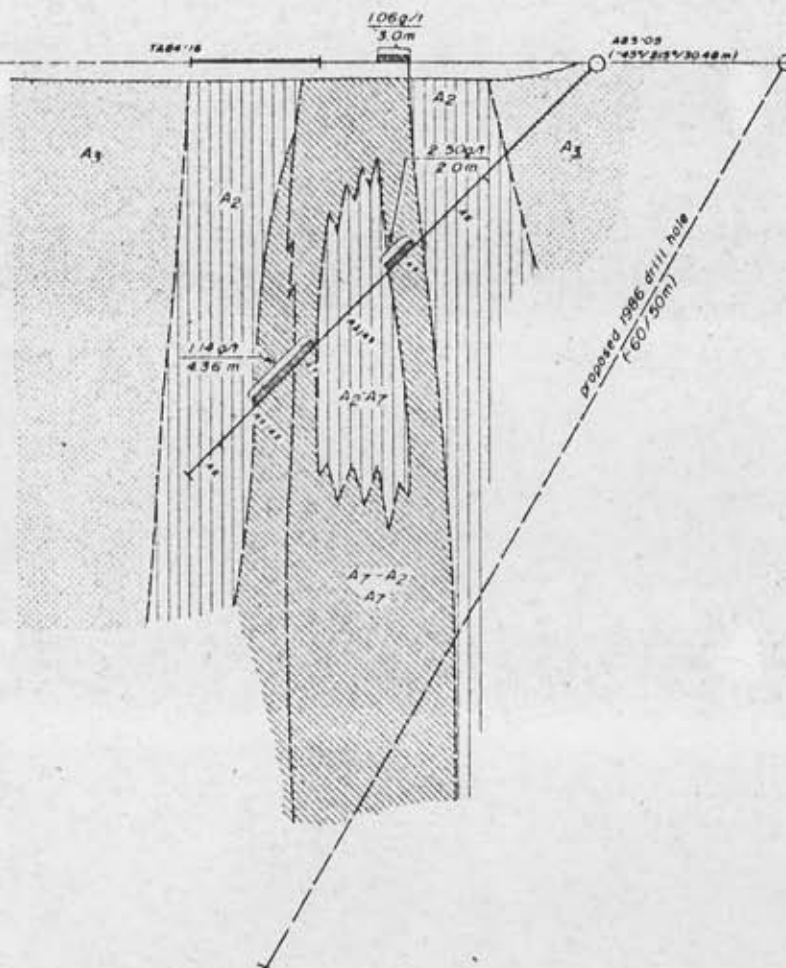
0 5 10m  
Scale 1:200

|                  |              |           |
|------------------|--------------|-----------|
| Date: Dec., 1983 | NTS: 94 E/GW | Figure 23 |
|------------------|--------------|-----------|











215°00'

035°00'

APPROXIMATE 1:40000 SCALE



LEGEND

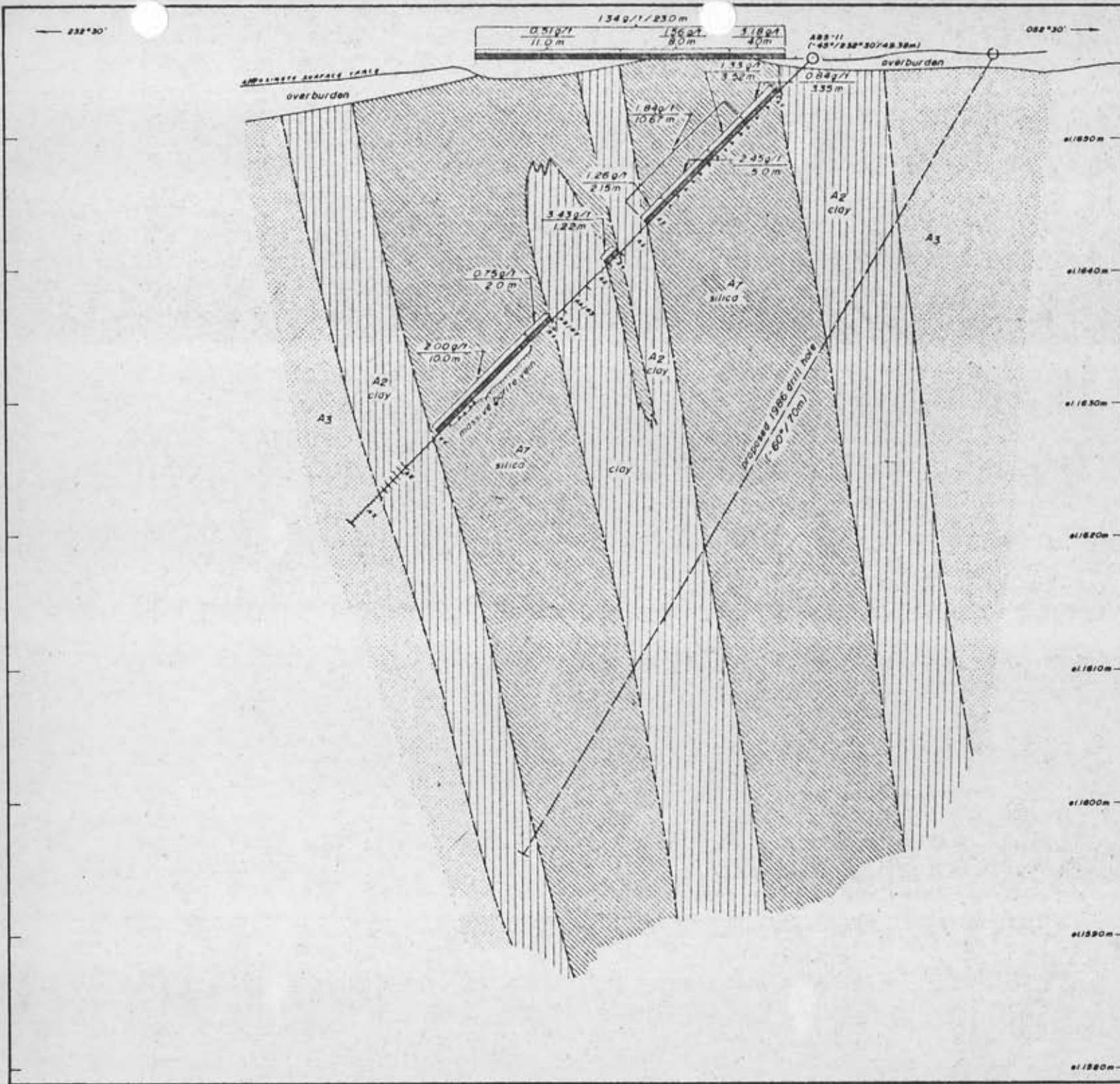
-  A1 Weak propylitic alteration
  -  A2 Intense argillization
  -  A2-A7 Clay with minor silicification
  -  A7-A2 Silicification with pyrite and minor kaolinite
  -  A7 Intense silicification with pyrite
  -  Alteration / lithographic boundary
  -  Fault
  -  Mineralized zone
  -  Highly mineralized zone
  -  Trench intersecting plane of section
- $\frac{1.76g/t}{70m}$  Assay - Au g/t width (m)

el.1850m  
 el.1840m  
 el.1830m  
 el.1820m  
 el.1810m  
 el.1800m  
 el.1790m  
 el.1780m

**energex**  
 MINERALS LTD  
 All Property  
 THESIS III ZONE  
 Diamond Drill Section  
 A85 - 05  
 LOOKING NORTHWEST (305°00')

Scale 1:200  
 Date Dec. 1985  
 Revised NTS 24 E/W Figure 24





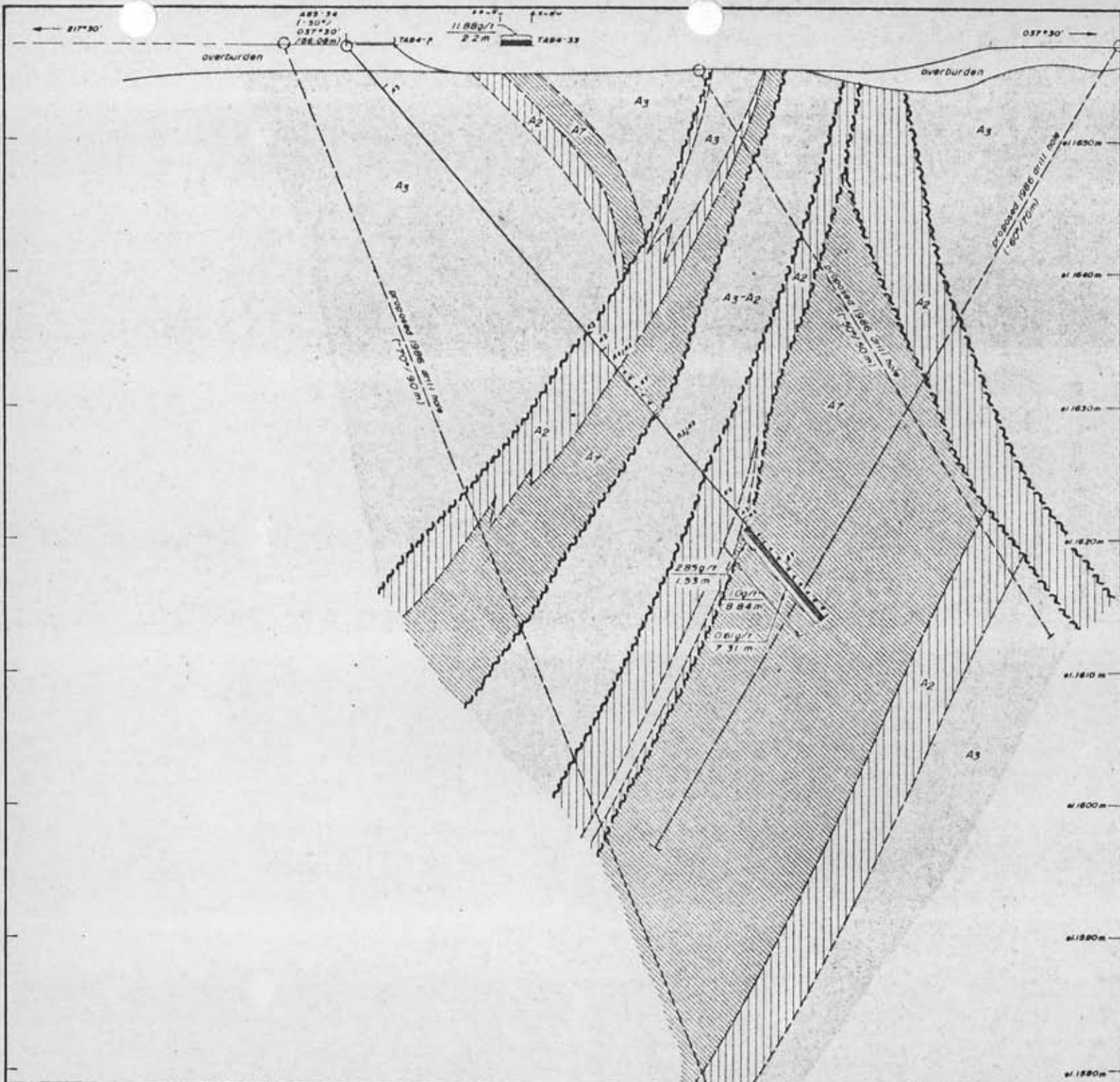
- LEGEND**
- Weak propylitic alteration
  - Intense argillization
  - Intense silicification with pyrite
  - Alteration/lithographic boundary
  - Mineralized zone
  - Highly mineralized zone
  - Assay - Au g/t width (m)

**energex**  
MINERALS LTD.

At Property  
THESIS III ZONE  
**Diamond Drill Section  
A85-11**  
LOOKING NORTHWEST (322°30')

Scale 1:200

Date: Dec. 1988  
Revised: NTS 92E/6W Figure 25



- LEGEND**
- A3 Weak propylitic alteration
  - A3-A2 Propylitic alteration with minor argillization
  - A2 Intense argillization
  - A7 Intense silicification with pyrite
  - Alteration/lithographic boundary
  - ~~~~~ Fault
  - ▨ Mineralized zone
  - ▨ Highly mineralized zone
  - ⊥ Trench intersecting plane of section
  - $\frac{1.76 \text{ g/t}}{70 \text{ m}}$  Assay - Au g/t / width (m)

**energex**  
MINERALS LTD

At Property  
THESES III ZONE  
**Diamond Drill Section  
A85-34**  
LOOKING NORTHWEST (1307°30')

Scale 1:200

Date: Dec., 1985  
Revised: NTS: 84 E/SW Figure 26

Further work should include trenching, stripping, detailed geological mapping and diamond drilling. Stripping operations, necessary for detailed mapping leading to a greater understanding of this complex deposit, should be limited to the thinly-covered drilled-off section of the alteration zone. Trenching should be conducted north and south of the deposit, to explore for continuations along strike. Diamond drilling should be guided by previous drill results and ongoing trenching, and should be directed to depth as well as along strike.

### **Conclusions and Recommendations**

Detailed conclusions and recommendations are given for each of the Bingo, BV and Thesis III zones at the end of the relevant sections. An extensive program of backhoe trenching, limited stripping (Thesis III), detailed mapping and sampling and an initial 4,500 meters of diamond drilling is recommended for the AI property in 1986. This work will concentrate on the Bonanza-Ridge, BV and Thesis III zones, where the best gold grades are known. Limited backhoe trenching, sampling and diamond drilling are planned for certain other zones (Bingo, Gosselin, Hump, Patti, Ring and Steve's).

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**CERTIFICATE**

I, George W.G. Sivertz, residing at 6100 Twintree Place, Richmond, British Columbia, do hereby declare:

1. I am a geologist and have practiced my profession for 10 years;
2. I received a B.Sc. (honours) degree in Geology from the University of British Columbia in 1976;
3. I am a member of the C.I.M.M. and a Fellow of the G.A.C.;
4. I am the author of this report and was directly involved in the 1985 AI property exploration program on a full time basis.

February, 1986  
Vancouver, B.C.

  
George W.G. Sivertz

**Appendix 1**  
**Statement of Expenditures**

**AI 1 Claim  
Statement of Expenditures  
Bingo Zone Trenching  
August 28 - September 7, 1985**

| <u>Field Personnel</u>                       | <u>Man Days</u> | <u>Rate</u> | <u>Total</u>              |
|--|-----------------|-------------|---------------------------|
| Joanne Black                                 | 11.0            | \$ 67       | \$ 737.00                 |
| Louise Eccles                                | 11.0            | 175         | 1,925.00                  |
| Frank Gigliotti                              | 11.0            | 125         | 1,375.00                  |
| Marie F. LeDoze                              | 11.0            | 100         | 1,100.00                  |
| William Howell                               | 1.0             | 175         | 175.00                    |
| <br><u>Consultants</u>                       |                 |             |                           |
| Rapitan Resources Ltd.                       |                 |             | 450.00                    |
| <br><u>Food and Accomodation</u>             |                 |             |                           |
| 55 man days @ \$50                           |                 |             | 2,600.00                  |
| <br><u>Mobilization/Demobilization</u>       |                 |             |                           |
| Air North Charters (5% x \$14,230)           |                 |             | 711.50                    |
| Northern Mtn. Helicopters (5% x \$47,035.66) |                 |             | 2,351.78                  |
| <br><u>Vehicle Rentals</u>                   |                 |             |                           |
| JD 450 backhoe 8 days @ \$500                |                 |             | 4,000.00                  |
| <br><u>Equipment/Supplies</u>                |                 |             |                           |
| (5% x \$10,429.66)                           |                 |             | 521.48                    |
| <br><u>Fuel</u>                              |                 |             |                           |
| (5% x \$14,246.65)                           |                 |             | 712.33                    |
| <br><u>Laboratory Analysis</u>               |                 |             |                           |
| CDN Resource Labs                            |                 |             | 4,597.93                  |
| CDN Resource Labs (second assays)            |                 |             | 1,128.00                  |
| <br><u>Contract Work</u>                     |                 |             |                           |
| Backhoe operator 8 days @ \$250              |                 |             | 2,000.00                  |
| <br><u>Helicopter/Fixed Wing</u>             |                 |             |                           |
| ALC Airlift Corp: 4.4 hrs. x \$515           |                 |             | 2,266.00                  |
| Central Mtn. Air: 5% x \$20,714.99           |                 |             | 1,035.75                  |
| <br><u>Report Preparation</u>                |                 |             |                           |
| Drafting and reproduction                    |                 |             | <u>500.00</u>             |
| TOTAL  |                 |             | <u><u>\$28,186.77</u></u> |

**Al 3 Claim  
Statement of Expenditures  
BV Diamond Drilling  
July 9-17, 1985**

Field Personnel

|                 | <u>Man Days</u> | <u>Rate</u> | <u>Total</u> |
|-----------------|-----------------|-------------|--------------|
| Joanne Black    | 9.0             | \$ 67       | \$ 603.00    |
| Louise Eccles   | 9.0             | 175         | 1,575.00     |
| Marie F. LeDoze | 9.0             | 100         | 900.00       |
| Laura Louie     | 9.0             | 100         | 900.00       |

Consultants

|                           |          |
|---------------------------|----------|
| Rapitan Resources Ltd.    | 2,025.00 |
| Toodoggone Resources Ltd. | 2,025.00 |

Food and Accomodation

|                    |          |
|--------------------|----------|
| 90 man days @ \$50 | 4,500.00 |
|--------------------|----------|

Mobilization/Demobilization

|   |          |
|---|----------|
| Air North Charters (20% x \$14,230)           | 2,846.00 |
| Northern Mtn. Helicopters (20% x \$47,035.66) | 9,407.17 |

Helicopter/Fixed Wing

|  |          |
|--|----------|
| ALC Airlift Corp (7.9 hrs @ \$515/hr.) | 4,068.50 |
| Central Mtn. Air (20% x \$20,714.99)   | 4,143.00 |

Vehicle Rentals

|                         |          |
|-------------------------|----------|
| D-4 Cat, 9 days @ \$600 | 5,400.00 |
|-------------------------|----------|

Equipment/Supplies

|                     |          |
|---------------------|----------|
| (20% x \$10,429.66) | 2,085.93 |
|---------------------|----------|

Fuel

|                     |          |
|---------------------|----------|
| (20% x \$14,246.65) | 2,849.33 |
|---------------------|----------|

Instrument Rentals

|            |                         |
|------------|-------------------------|
| Rock Saw   | 50.00                   |
| Theodolite | 3 days @ \$50<br>150.00 |

Laboratory Analysis

|                                   |          |
|-----------------------------------|----------|
| CDN Resource Labs                 | 2,004.76 |
| CDN Resource Labs (second assays) | 704.00   |

Contract Work

|                       |                                |           |
|-----------------------|--------------------------------|-----------|
| Surveying: K. Coswan  | 3 days                         | 600.00    |
| Drilling: J.T. Thomas | DDH A85-12-22 1584' x \$31/ft. | 49,104.00 |
| Bits:                 | 1584' x \$3/ft.                | 4,752.00  |

Report Preparation

|                           |                |          |
|---------------------------|----------------|----------|
| G. Sivertz                | 5 days @ \$175 | 875.00   |
| Drafting and reproduction |                | 1,000.00 |

TOTAL

\$102,567.65



**AI Claim  
Statement of Expenditures  
Thesis III Diamond Drilling  
June 29-30 and July 1-2, 8 and 26-27, 1985**

| <u>Field Personnel</u>                              | <u>Man Days</u> | <u>Rate</u> | <u>Total</u>              |
|---|-----------------|-------------|---------------------------|
| Joanne Black  | 7.0             | \$ 67       | \$ 469.00                 |
| Louise Eccles                                       | 7.0             | 175         | 1,225.00                  |
| Marie F. LeDoze                                     | 7.0             | 100         | 700.00                    |
| Laura Louie   | 7.0             | 100         | 700.00                    |
| <br><u>Consultants</u>                              |                 |             |                           |
| Rapitan Resources Ltd.                              |                 |             | 1,575.00                  |
| Toodoggone Resources Ltd.                           |                 |             | 1,575.00                  |
| <br><u>Food and Accomodation</u>                    |                 |             |                           |
| 70 man days @ \$50                                  |                 |             | 3,500.00                  |
| <br><u>Mobilization/Demobilization</u>              |                 |             |                           |
| Air North Charters (15% x \$14,230)                 |                 |             | 2,134.50                  |
| Northern Mtn. Helicopters (15% x \$47,035.66)       |                 |             | 7,055.35                  |
| <br><u>Helicopter/Fixed Wing</u>                    |                 |             |                           |
| ALC Airlift Corp (6.2 hrs @ \$515/hr.)              |                 |             | 3,193.00                  |
| Central Mtn. Air (15% x \$20,714.99)                |                 |             | 3,107.25                  |
| <br><u>Vehicle Rentals</u>                          |                 |             |                           |
| D-4 Cat, 7 days @ \$600                             |                 |             | 4,200.00                  |
| <br><u>Equipment/Supplies</u>                       |                 |             |                           |
| (15% x \$10,429.66)                                 |                 |             | 1,564.45                  |
| <br><u>Fuel</u>                                     |                 |             |                           |
| (15% x \$14,246.65)                                 |                 |             | 2,137.00                  |
| <br><u>Instrument Rentals</u>                       |                 |             |                           |
| Rock Saw  | 7 days @ \$50   |             | 350.00                    |
| Theodolite  | 1 day @ \$50    |             | 50.00                     |
| <br><u>Laboratory Analysis</u>                      |                 |             |                           |
| CDN Resource Labs                                   |                 |             | 3,110.68                  |
| CDN Resource Labs (second assays)                   |                 |             | 1,344.00                  |
| <br><u>Contract Work</u>                            |                 |             |                           |
| Surveying: Kevin Coswan, 1 day                      |                 |             | 200.00                    |
| Drilling: J.T. Thomas D. Drilling                   |                 |             |                           |
| DDH A85-03, 04, 05, 06, 11, 34: 1017' x \$31.00/ft. |                 |             | 31,527.00                 |
| Bits: 1017' x \$3.00/ft.                            |                 |             | 3,051.00                  |
| <br><u>Report Preparation</u>                       |                 |             |                           |
| Drafting and reproduction                           |                 |             | <u>1,000.00</u>           |
| <b>TOTAL</b>  |                 |             | <b><u>\$73,768.23</u></b> |

**Appendix 2**

**Analytical Results - Surface Samples**

## ENERGEX MINERALS LTD.

## TOODOGGONE PROPERTY

AREA:

A1 Bingo

TRENCH NO.

TR. A. 85. 14

| Sample No. | Interval (m)  | Length (m) | Au (gms) | Repeat (gms) | Avg (gms) | Meters X Grams | Calculations/ Comments |
|------------|---------------|------------|----------|--------------|-----------|----------------|------------------------|
| 17070      | 2.20 - 2.70   | 0.5        | 1.60     |              |           | 0.80           |                        |
| 71         | -3.30         | 0.6        | 1.80     |              |           | 1.08           |                        |
| 72         | -4.00         | 0.7        | 2.30     |              |           | 1.61           |                        |
| 73         | -4.60         | 0.6        | 3.10     |              |           | 1.86           |                        |
| 74         | -5.00         | 0.4        | 2.90     |              |           | 1.16           |                        |
| 75         | -5.50         | 0.5        | 2.10     |              |           | 1.05           |                        |
| 76         | -6.20         | 0.7        | 2.60     |              |           | 1.82           |                        |
| 77         | -6.70         | 0.5        | 2.40     |              |           | 1.20           | 2.38                   |
| 78         | -7.20         | 0.5        | 2.10     |              |           | 1.05           | 11.8m                  |
| 79         | -7.70         | 0.5        | 1.50     |              |           | 0.75           |                        |
| 80         | -8.30         | 0.6        | 2.70     |              |           | 1.62           |                        |
| 81         | -8.80         | 0.5        | 3.40     |              |           | 1.70           |                        |
| 82         | -9.20         | 0.4        | 1.70     |              |           | 0.68           |                        |
| 83         | -9.70         | 0.5        | 1.50     |              |           | 0.75           |                        |
| 84         | -10.20        | 0.5        | 2.00     |              |           | 1.00           |                        |
| 85         | -10.90        | 0.7        | 2.90     |              |           | 2.03           |                        |
| 86         | -11.40        | 0.5        | 5.20     |              |           | 2.6            |                        |
| 87         | -11.90        | 0.5        | 4.20     |              |           | 2.10           |                        |
| 88         | -12.40        | 0.5        | 1.80     |              |           | 0.90           |                        |
| 89         | -12.60        | 0.2        | 0.80     |              |           | 0.40           |                        |
| 90         | -13.00        | 0.4        | 1.40     |              |           | 0.70           |                        |
| 91         | -13.50        | 0.5        | 1.60     |              |           | 0.80           |                        |
| 92         | -14.00        | 0.5        | 1.00     |              |           | 0.50           |                        |
| 93         | 14.50 - 15.00 | 0.5        | 0.70     |              |           | 0.35           | 0.20m. wide.           |

**ENERGEX MINERALS LTD.**  
**TOODOGGONE PROPERTY**

AREA: Al-Bingo

TRENCH NO. TR-A-85-15

| Sample No. | Interval (m) | Length (m) | Au (gms) | Repeat (gms) | Avg (gms) | Meters X Grams | Calculations/ Comments |
|------------|--------------|------------|----------|--------------|-----------|----------------|------------------------|
| 17094      | 3.30 - 3.80  | 0.5        | 0.10     |              |           | 0.05           |                        |
| 95         | 3.80 - 4.05  | 0.25       | 0.30     |              |           | 0.075          |                        |
| 96         | 4.05 - 4.80  | 0.75       | 1.30     |              |           | 0.975          | } 1.88<br>4.75m        |
| 97         | - 5.20       | 0.4        | 2.20     |              |           | 0.88           |                        |
| 98         | - 5.80       | 0.6        | 2.50     |              |           | 1.50           |                        |
| 99         | - 6.30       | 0.5        | 3.70     | 4.75         |           | 1.85           |                        |
| 100        | - 6.80       | 0.5        | 1.80     |              |           | 0.90           |                        |
| 101        | - 7.30       | 0.5        | 1.40     |              |           | 0.70           |                        |
| 102        | - 7.80       | 0.5        | 2.00     |              |           | 1.00           |                        |
| 103        | - 8.30       | 0.5        | 1.30     |              |           | 0.65           |                        |
| 104        | - 8.80       | 0.5        | 1.00     |              |           | 0.50           |                        |
| 105        | - 9.30       | 0.5        | 0.10     |              |           | 0.05           |                        |
| 106        | - 9.80       | 0.5        | 0.30     |              |           | 0.15           |                        |
| 107        | - 10.30      | 0.5        | 0.40     |              |           | 0.20           |                        |
| 108        | - 10.80      | 0.5        | 0.20     |              |           | 0.10           |                        |
| 109        | - 11.30      | 0.5        | 0.30     |              |           | 0.15           |                        |
| 110        | - 11.80      | 0.5        | 0.10     |              |           | 0.05           |                        |
| 111        | - 12.30      | 0.5        | 0.20     |              |           | 0.10           |                        |
| 112        | - 12.80      | 0.5        | 0.50     |              |           | 0.25           |                        |
| 113        | - 13.30      | 0.5        | 0.90     |              |           | 0.45           |                        |
| 114        | - 13.80      | 0.5        | 0.30     |              |           | 0.15           |                        |
| 115        | - 14.30      | 0.5        | 0.60     |              |           | 0.30           |                        |

**ENERGEX MINERALS LTD.  
TOODOGGONE PROPERTY**



AREA: Bingo

TRENCH NO. TR-A-85-15

| Sample No. | Interval (m)  | Length (m) | Au (gms) | Repeat (gms) | Avg (gms) | Meters X Grams | Calculations/ Comments |
|------------|---------------|------------|----------|--------------|-----------|----------------|------------------------|
| 17116      | 14.30 - 14.80 | 0.5        | 0.70     |              |           | 0.35           |                        |
| 117        | - 15.30       | 0.5        | 1.40     |              |           | 0.70           |                        |
| 118        | - 15.80       | 0.5        | 0.50     |              |           | 0.25           |                        |
| 119        | - 16.30       | 0.5        | 0.60     |              |           | 0.30           |                        |
| 120        | - 16.80       | 0.5        | 0.70     |              |           | 0.35           |                        |
| 121        | - 17.30       | 0.5        | 0.60     |              |           | 0.30           |                        |
| 122        | - 17.80       | 0.5        | 0.30     |              |           | 0.15           |                        |
| 123        | - 18.30       | 0.5        | 0.50     |              |           | 0.25           |                        |
| 124        | - 18.80       | 0.5        | 0.20     |              |           | 0.10           |                        |
| 125        | - 19.30       | 0.5        | 1.60     |              |           | 0.80           |                        |
| 126        | - 19.80       | 0.5        | 1.60     | 1.9m         |           | 0.80           | 1.77<br>T.9            |
| 127        | - 20.30       | 0.5        | 2.00     |              |           | 1.00           |                        |
| 128        | - 20.70       | 0.4        | 1.90     |              |           | 0.76           |                        |
| 129        | - 21.70       | 1.0        | 0.50     |              |           | 0.50           |                        |
| 130        | - 22.20       | 0.3        | 0.30     |              |           | 0.09           |                        |
| 131        | - 22.70       | 0.5        | 0.40     |              |           | 0.20           |                        |
| 132        | - 23.20       | 0.5        | 0.80     |              |           | 0.40           |                        |
| 133        | - 23.70       | 0.5        | 0.90     |              |           | 0.45           |                        |
| 134        | - 24.20       | 0.5        | 0.80     |              |           | 0.40           |                        |
| 135        | - 24.70       | 0.5        | 1.00     |              |           | 0.50           |                        |
| 136        | - 25.20       | 0.5        | 1.40     |              |           | 0.70           |                        |
| 137        | - 25.7        | 0.5        | 1.50     |              |           | 0.75           |                        |

**ENERGEX MINERALS LTD.  
TOODOGGONE PROPERTY**



AREA: Bingo

TRENCH NO. TR. A. 85. 15

| Sample No. | Interval (m)  | Length (m) | Au (gms) | Repeat (gms) | Avg (gms) | Meters X Grams | Calculations/ Comments |
|------------|---------------|------------|----------|--------------|-----------|----------------|------------------------|
| 17138      | 25.70 - 26.30 | 0.5        | 0.30     |              |           | 0.15           |                        |
| 139        | 26.30 - 27.20 | 0.9        | 2.20     |              |           | 1.98           |                        |
| 140        | 28.20         | 1.0        | 0.10     |              |           | 0.10           |                        |
| 141        | 29.20         | 1.0        | 0.30     |              |           | 0.30           |                        |
| 142        | 30.60         | 1.4        | 0.50     |              |           | 0.70           |                        |
| 143        | 30.90         | 0.3        | 2.20     | 5.2m         |           | 0.66           | } 1.65<br>5.2m         |
| 144        | 31.40         | 0.5        | 0.90     |              |           | 0.45           |                        |
| 145        | 31.90         | 0.5        | 3.80     |              |           | 1.90           |                        |
| 146        | 32.40         | 0.5        | 2.50     |              |           | 1.25           |                        |
| 147        | 32.90         | 0.5        | 2.40     |              |           | 1.20           |                        |
| 148        | 33.90         | 1.0        | 1.10     |              |           | 1.10           |                        |
| 149        | 34.30         | 0.4        | 0.90     |              |           | 0.36           |                        |
| 150        | 35.30         | 1.0        | 1.00     |              |           | 1.00           |                        |
| 151        | 35.80         | 0.5        | 1.35     |              |           | 0.675          |                        |
| 152        | 36.30         | 0.5        | 0.90     |              |           | 0.45           |                        |
| 153        | 36.80         | 0.5        | 0.70     |              |           | 0.35           |                        |
| 154        | 37.30         | 0.5        | 0.90     |              |           | 0.45           |                        |
| 155        | 37.80         | 0.5        | 1.10     |              |           | 0.55           |                        |
| 156        | 38.30         | 0.5        | 0.90     |              |           | 0.45           |                        |
| 157        | 38.80         | 0.5        | 1.40     |              |           | 0.70           | } 2.29<br>2.2m         |
| 158        | 39.30         | 0.5        | 1.20     |              |           | 0.60           |                        |
| 159        | - 39.80       | 0.5        | 3.70     |              |           | 1.85           |                        |

8.59



1200

**ENERGEX MINERALS LTD.**  
**TOODOGGONE PROPERTY**

AREA: Al-Bingo

TRENCH NO. TR. 85-A-16

| Sample No. | Interval (m) | Length (m) | Au (gms) | Repeat (gms) | Avg (gms) | Meters X Grams | Calculations/ Comments |
|------------|--------------|------------|----------|--------------|-----------|----------------|------------------------|
| 17170      | 4.00-5.00    | 1.0        | <0.05    |              |           | <0.05          |                        |
| 171        | -6.00        | 1.0        | <0.05    |              |           | <              |                        |
| 172        | 20.00-21.00  | 1.0        | 0.60     |              |           | 0.60           |                        |
| 173        | -22.00       | 1.0        | 1.00     |              |           | 1.00           |                        |
| 174        | -23.00       | 1.0        | 0.30     |              |           | 0.30           |                        |
| 175        | -24.00       | 1.0        | 0.20     |              |           | 0.20           |                        |
| 176        | -25.00       | 1.0        | 0.40     |              |           | 0.40           |                        |
| 177        | -26.00       | 1.0        | 0.10     |              |           | 0.10           |                        |
| 178        | 33.10-34.10  | 1.0        | 0.10     |              |           | 0.10           |                        |
| 179        | -34.60       | 0.5        | 0.40     |              |           | 0.20           |                        |
| 180        | -35.10       | 0.5        | 1.40     |              |           | 0.70           |                        |
| 181        | -35.60       | 0.5        | 0.90     |              |           | 0.45           |                        |
| 182        | -36.10       | 0.5        | 2.30     |              |           | 1.15           | } $\frac{3.4}{1m}$     |
| 183        | -36.60       | 0.5        | 4.50     |              |           | 2.25           |                        |
| 184        | -37.60       | 1.0        | 0.60     |              |           | 0.60           |                        |
| 185        | -38.70       | 1.1        | 0.80     |              |           | 0.88           |                        |
| 186        | -39.20       | 0.5        | 1.60     |              |           | 0.80           | }                      |
| 187        | -39.70       | 0.5        | 1.70     |              |           | 0.85           |                        |
| 188        | -40.20       | 0.5        | 1.90     |              |           | 0.95           |                        |
| 189        | -40.70       | 0.5        | 1.30     |              |           | 0.65           |                        |
| 190        | -41.20       | 0.5        | 2.00     |              |           | 1.00           |                        |
| 191        | -41.70       | 0.5        | 1.90     |              |           | 0.95           |                        |



## ENERGEX MINERALS LTD.

## TOODOGGONE PROPERTY

AREA:

A1 - Bingo

TRENCH NO.

TR. 85-A-16

| Sample No. | Interval (m)  | Length (m) | Au (gms) | Repeat (gms) | Avg (gms) | Meters X Grams | Calculations/ Comments |
|------------|---------------|------------|----------|--------------|-----------|----------------|------------------------|
| 17192      | 41.70 - 42.20 | 0.5        | 1.30     |              |           | 0.65           |                        |
| 193        | - 42.70       | 0.5        | 1.20     |              |           | 0.60           |                        |
| 194        | - 43.20       | 0.5        | 1.00     |              |           | 0.50           |                        |
| 195        | - 43.70       | 0.5        | 1.00     |              |           | 0.50           |                        |
| 196        | - 44.20       | 0.5        | 2.30     |              |           | 1.15           |                        |
| 197        | - 44.65       | 0.45       | 0.80     |              |           | 0.36           |                        |
| 198        | - 45.30       | 0.65       | 0.20     |              |           | 0.13           |                        |
| 199        | - 46.30       | 1.0        | <0.05    |              |           | <0.05          |                        |
| 200        | - 47.30       | 1.0        | 0.10     |              |           | 0.10           |                        |
| 201        | - 48.30       | 1.0        | 0.10     |              |           | 0.10           |                        |
| 202        | - 49.30       | 1.0        | 0.80     |              |           | 0.80           |                        |
| 203        | - 50.30       | 1.0        | 0.80     |              |           | 0.80           |                        |
| 204        | - 51.30       | 1.0        | 1.30     |              |           | 1.30           |                        |
| 205        | - 52.30       | 1.0        | 1.90     |              |           | 1.90           |                        |
| 206        | - 53.30       | 1.0        | 0.80     |              |           | 0.80           |                        |
| 207        | - 54.30       | 1.0        | 1.40     |              |           | 1.40           |                        |
| 208        | - 55.30       | 1.0        | 0.40     |              |           | 0.40           |                        |
| 209        | - 56.30       | 1.0        | 0.10     |              |           | 0.10           |                        |
| 210        | - 57.30       | 1.0        | 0.30     |              |           | 0.30           |                        |
| 211        | - 58.30       | 1.0        | 0.20     |              |           | 0.20           |                        |
| 212        | - 59.30       | 1.0        | 0.10     |              |           | 0.10           |                        |
| 213        | - 60.30       | 1.0        | 0.10     |              |           | 0.10           |                        |



## ENERGEX MINERALS LTD.

## TOODOGGONE PROPERTY

AREA:

Bingo

TRENCH NO.

TR-A-85-17

| Sample No. | Interval (m) | Length (m) | Au (gms) | Repeat (gms) | Avg (gms) | Meters X Grams | Calculations/ Comments |       |
|------------|--------------|------------|----------|--------------|-----------|----------------|------------------------|-------|
| 17276      | 1.5 - 2.0    | .5         | 1.50     |              |           | 0.75           | }                      |       |
| 17277      | 2.0 - 2.5    | .5         | 3.40     |              |           | 1.70           |                        |       |
| 17278      | 2.5 - 3.0    | .5         | 2.50     |              |           | 1.25           |                        |       |
| 17279      | 3.0 - 3.5    | .5         | 1.60     |              |           | 0.80           |                        |       |
| 17280      | 3.5 - 4.0    | .5         | 0.70     |              |           | 0.35           |                        | 1.88  |
| 17281      | 4.0 - 4.5    | .5         | 1.10     |              |           | 0.55           |                        | 15.5m |
| 17282      | 4.5 - 5.0    | .5         | 2.20     |              |           | 1.10           |                        |       |
| 1283       | 5.0 - 5.5    | .5         | 1.95     |              |           | 0.975          |                        |       |
| 17284      | 5.5 - 6.0    | .5         | 1.25     |              |           | 0.625          |                        |       |
| 17285      | 6.0 - 6.5    | .5         | 0.70     |              |           | 0.35           |                        |       |
| 17286      | 6.5 - 7.0    | .5         | 1.55     |              |           | 0.775          |                        |       |
| 17287      | 7.0 - 7.5    | .5         | 1.65     |              |           | 0.825          |                        |       |
| 17288      | 7.5 - 8.0    | .5         | 4.45     |              |           | 2.225          |                        |       |
| 289        | 8.0 - 8.5    | .5         | 3.10     |              |           | 1.55           |                        |       |
| 290        | 8.5 - 9.0    | .5         | 2.40     |              |           | 1.20           |                        | 4.94  |
| 291        | 9.0 - 9.5    | .5         | 1.20     |              |           | 0.60           | 4.5m                   |       |
| 292        | 9.5 - 10.0   | .5         | 2.60     |              |           | 1.30           |                        |       |
| 293        | 10.0 - 10.5  | .5         | 1.60     |              |           | 0.80           |                        |       |
| 294        | 10.5 - 11.0  | .5         | 2.30     |              |           | 1.15           |                        |       |
| 295        | 11.0 - 11.5  | .5         | 2.00     |              |           | 1.00           |                        |       |
| 296        | 11.5 - 12.0  | .5         | 2.60     |              |           | 1.30           |                        |       |
| 297        | 12.0 - 12.5  | .5         | 1.50     |              |           | 0.75           |                        |       |

## ENERGEX MINERALS LTD.

## TOODOGGONE PROPERTY

AREA: BingoTRENCH NO. TR A-85-17

| Sample No. | Interval (m) | Length (m) | Au (gms) | Repeat (gms) | Avg (gms) | Meters X Grams | Calculations/ Comments |
|------------|--------------|------------|----------|--------------|-----------|----------------|------------------------|
| 17299      | 12.5 - 13.0  | .5         | 1.50     |              |           | 0.75           |                        |
| 299        | 13.0 - 13.5  | .5         | 1.20     |              |           | 0.65           |                        |
| 300        | 13.5 - 14.0  | .5         | 2.00     |              |           | 1.00           |                        |
| 301        | 14.0 - 14.5  | .5         | 1.45     |              |           | 0.65           |                        |
| 302        | 14.5 - 15.0  | .5         | 1.70     |              |           | 0.85           |                        |
| 303        | 15.0 - 15.5  | .5         | 1.50     |              |           | 0.75           |                        |
| 304        | 15.5 - 16.0  | .5         | 1.70     |              |           | 0.85           |                        |
| 305        | 16.0 - 16.5  | .5         | 0.90     |              |           | 0.45           |                        |
| 306        | 16.5 - 17.0  | .5         | 2.60     |              |           | 1.30           |                        |
| 307        | 17.0 - 17.5  | .5         | 0.70     |              |           | 0.35           |                        |
| 308        | 17.5 - 18.0  | .5         | 0.90     |              |           | 0.45           |                        |
| 309        | 18.0 - 18.5  | .5         | 1.40     |              |           | 0.70           |                        |
| 310        | 18.5 - 19.0  | .5         | 1.00     |              |           | 0.50           |                        |
| * 311      | 19.0 - 19.3  | .3         | 0.85     |              |           | 0.255          |                        |
| 312        | 19.3 - 19.8  | .5         | 0.55     |              |           | 0.275          |                        |
| 313        | 19.8 - 20.3  | .5         | 1.60     |              |           | 0.80           |                        |
| 314        | 20.3 - 20.8  | .5         | 1.00     |              |           | 0.50           |                        |
| 315        | 20.8 - 21.3  | .5         | 0.70     |              |           | 0.35           |                        |
| 316        | 21.3 - 21.8  | .5         | 1.00     |              |           | 0.50           |                        |
| 317        | 21.8 - 22.3  | .5         | 0.45     |              |           | 0.225          |                        |
| 318        | 22.3 - 22.8  | .5         | 0.55     |              |           | 0.275          |                        |
| 319        | 22.8 - 23.3  | .5         | 0.65     |              |           | 0.325          |                        |



**ENERGEX MINERALS LTD.**  
**TOODOGGONE PROPERTY**

AREA: Binger

TRENCH NO. TR A-85-18

| Sample No. | Interval (m) | Length (m) | Au (gms) | Repeat (gms) | Avg (gms) | Meters X Grams | Calculations/ Comments |
|------------|--------------|------------|----------|--------------|-----------|----------------|------------------------|
| 17229      | 3.7-4.7      | 1.0        | 0.20     |              |           | 0.20           |                        |
| 17230      | 4.7-5.2      | .5         | 2.60     |              |           | 1.30           |                        |
| 231        | 5.2-5.7      | .5         | 0.10     |              |           | 0.05           |                        |
| 232        | 5.7-6.2      | .5         | 0.05     |              |           | 0.025          |                        |
| 233        | 6.2-6.7      | .5         | <0.05    |              |           | <0.025         |                        |
| 234        | 6.7-7.0      | .3         | 0.40     |              |           | 0.12           |                        |
| 235        | 7.0-8.0      | 1.0        | 2.10     |              |           | 2.10           | } 2.0g<br>2.3m         |
| 236        | 8.0-8.5      | .5         | 2.30     |              |           | 1.15           |                        |
| 237        | 8.5-9.3      | .8         | 1.70     |              |           | 1.36           |                        |
| 238        | 9.3-10.4     | 1.1        | 0.40     |              |           | 0.44           |                        |
| 239        | 11.2-12.8    | 1.0        | 0.20     |              |           | 0.20           |                        |
| 240        | 12.8-13.3    | .5         | 1.10     |              |           | 0.55           |                        |
| 241        | 13.3-13.8    | .5         | 1.90     |              |           | 0.95           |                        |
| 242        | 13.8-14.3    | .5         | 1.20     |              |           | 0.65           |                        |
| 243        | 14.3-14.8    | .5         | 0.75     |              |           | 0.375          |                        |
| 244        | 14.8-15.3    | .5         | 0.80     |              |           | 0.40           |                        |
| 245        | 15.3-15.8    | .5         | 0.80     |              |           | 0.40           |                        |
| 246        | 15.8-16.3    | .5         | 1.20     |              |           | 0.60           |                        |
| 247        | 16.3-16.8    | .5         | 0.90     |              |           | 0.45           |                        |
| 248        | 16.8-17.3    | .5         | 0.90     |              |           | 0.45           |                        |
| 249        | 17.3-17.8    | .5         | 1.00     |              |           | 0.50           |                        |
| 250        | 17.8-18.3    | .5         | 1.50     |              |           | 0.75           |                        |

## ENERGEX MINERALS LTD.

## TOODOGGONE PROPERTY

AREA:

Bingzi

TRENCH NO.

TR A-85-18

| Sample No. | Interval (m) | Length (m) | Au (gms) | Repeat (gms) | Avg (gms) | Meters X Grams | Calculations/ Comments |
|------------|--------------|------------|----------|--------------|-----------|----------------|------------------------|
| 17251      | 18.3 - 18.8  | .5         | 0.70     |              |           | 0.35           |                        |
| 252        | 18.8 - 19.3  | .5         | 2.80     |              |           | 1.40           |                        |
| 253        | 19.3 - 19.8  | .5         | 1.80     |              |           | 0.90           |                        |
| 254        | 19.8 - 20.3  | .5         | 0.80     |              |           | 0.40           |                        |
| 255        | 20.3 - 20.8  | .5         | 4.40     |              |           | 2.20           | <u>2.45</u>            |
| 256        | 20.8 - 21.3  | .5         | 3.20     |              |           | 1.60           | 4.5m                   |
| 257        | 21.3 - 21.8  | .5         | 2.70     |              |           | 1.35           |                        |
| 258        | 21.8 - 22.3  | .5         | 1.70     |              |           | 0.85           |                        |
| 259        | 22.3 - 22.8  | .5         | 2.00     |              |           | 1.00           |                        |
| 260        | 22.8 - 23.3  | .5         | 2.70     |              |           | 1.35           |                        |
| 261        | 23.3 - 23.8  | .5         | 1.70     |              |           | 0.85           |                        |
| 262        | 23.8 - 24.3  | .5         | 1.80     |              |           | 0.90           |                        |
| 263        | 24.3 - 24.8  | .5         | 1.70     |              |           | 0.85           | <u>1.38</u>            |
| 264        | 24.8 - 25.3  | .5         | 1.20     |              |           | 0.60           | <u>6.0m</u>            |
| 265        | 25.3 - 25.8  | .5         | 0.70     |              |           | 0.35           |                        |
| 266        | 25.8 - 26.3  | .5         | 1.20     |              |           | 0.60           |                        |
| 267        | 26.3 - 26.8  | .5         | 0.40     |              |           | 0.20           |                        |
| 268        | 26.8 - 27.3  | .5         | 1.60     |              |           | 0.80           |                        |
| 269        | 27.3 - 27.8  | .5         | 1.10     |              |           | 0.55           |                        |
| 270        | 27.8 - 28.3  | .5         | 1.95     |              |           | 0.975          |                        |
| 271        | 28.3 - 28.8  | .5         | 1.80     |              |           | 0.90           |                        |
| 272        | 28.8 - 29.3  | .5         | 1.45     |              |           | 0.725          |                        |


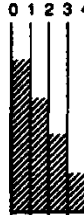




**Appendix 3**

**Diamond Drill Logs and Core Assays**

**DRILL LOG**

|   |   |
|---|---|
| PROJECT<br>AL-BY                            | GROUND ELEV.<br>1587.35m  |
| HOLE NO.<br>A-95-20                         | BEARING<br>175°   |
| LOCATION                                    | DIP<br>-45°   |
|   | TOTAL LENGTH<br>32.62 m — 107'  |
| LOGGED BY<br>L. ECCLES                      | HORIZONTAL PROJECT  |
| DATE<br>JULY 15/85                          | VERTICAL PROJECT  |
| CONTRACTOR<br>J.T. THOMAS DIAMONDS DRILLING | <p><b>ALTERATION SCALE</b></p>  <p>0 1 2 3<br/>absent<br/>slight<br/>moderate<br/>intense</p>                           |
| CORE SIZE<br>HQ                             | <p><b>TOTAL SULPHIDE SCALE</b></p>  <p>0 1 2 3 4<br/>traces only<br/>&lt; 1%<br/>1% - 3%<br/>3% - 10%<br/>&gt; 10%</p> |
| DATE STARTED<br>JULY 14/85                  |   |
| DATE COMPLETED<br>JULY 14/85                |   |
| DIP TESTS                                   |   |
| COMMENTS                                    | LEGEND  |







| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES |       |       | SAMPLE NUMBER | ASSAYS |  |  |  |
|----------------------------|----------------|---------|-------|-------|---------------|--------|--|--|--|
|                            |                | FROM    | TO    | WIDTH |               | AU g/t |  |  |  |
|                            | 28             | 24.21   | 25.21 | 1.0   | 13803         | 40.05  |  |  |  |
|                            | 29             | 25.21   | 26.21 | 1.0   | 13804         | 0.10   |  |  |  |
|                            |                | 26.21   | 27.21 | 1.0   | 13805         | 0.27   |  |  |  |
|                            |                | 27.21   | 28.21 | 1.0   | 13805         | 0.27   |  |  |  |
|                            | 39<br>40       |         |       |       |               |        |  |  |  |



**DRILL LOG**

|   |                                     |
|---|-------------------------------------|
| PROJECT<br><i>AL. - BV</i>                                    | GROUND ELEV.<br><i>1588.26m</i>     |
| HOLE NO.<br><i>A-85-21</i>                                    | BEARING<br><i>195°</i>              |
| LOCATION<br><i>DUP - A-3A - 15</i>                            | DIP<br><i>-70°</i>                  |
|   | TOTAL LENGTH<br><i>3970w — 127'</i> |
| LOGGED BY<br><i>L ECCLES</i>                                  | HORIZONTAL PROJECT                  |
| DATE<br><i>JULY 15/85</i>                                     | VERTICAL PROJECT                    |
| CONTRACTOR<br><i>J T THOMAS DIAMOND DRILLING</i>              | ALTERATION SCALE<br>                |
| CORE SIZE<br><i>HQ</i>  |                                     |
| DATE STARTED<br><i>JULY 15/85</i>                             |                                     |
| DATE COMPLETED<br><i>JULY 15/85</i>                           | TOTAL SULPHIDE SCALE<br>            |
| DIP TESTS   |                                     |
| COMMENTS<br><i>Lost the last 5' of core at bottom of hole</i> | LEGEND                              |



| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION                                 | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|------------|
|           |            |           |           |  | A          | B | C | D | E |                    |            |
| 0         |            |           |           | CFSING   |            |   |   |   |   |                    |            |
| 3.05      | 80         |           |           | A <sub>2</sub> - clayed massive volcanics              |            |   |   |   |   |                    |            |
| 3.66      | 90         |           |           | clay gouge w/ clay in narrow zone                      |            |   |   |   |   |                    |            |
| 4.27      | 90         |           |           |  |            |   |   |   |   |                    |            |
| 5.49      | 95         |           |           | A <sub>2</sub> groundmass with trace of A <sub>3</sub> |            |   |   |   |   |                    |            |
| 6.71      | 95         |           |           | A <sub>3</sub> - massive                               |            |   |   |   |   |                    |            |
| 8.23      | 100        |           |           | A <sub>3</sub> - massive porphyritic volcanics         |            |   |   |   |   |                    |            |
| 9.75      | 100        |           |           |  |            |   |   |   |   |                    |            |
| 11.29     | 100        |           |           |  |            |   |   |   |   |                    |            |
| 12.82     | 100        |           |           |  |            |   |   |   |   |                    |            |
| 14.35     | 100        |           |           |  |            |   |   |   |   |                    |            |
| 15.85     | 100        |           |           | clay gouge   |            |   |   |   |   |                    |            |
| 17.39     | 100        |           |           |  |            |   |   |   |   |                    |            |
| 18.97     | 100        |           |           |  |            |   |   |   |   |                    |            |
| 20.43     | 100        |           |           |  |            |   |   |   |   |                    |            |
| 21.05     | 100        |           |           | orange sandstone A <sub>2</sub> clay gouge             |            |   |   |   |   |                    |            |

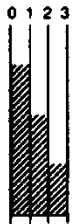



| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION   | ALTERATION                       |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|--|----------------------------------|---|---|---|---|--------------------|------------|
|           |            |           |           |  | A                                | B | C | D | E |                    |            |
| 23.4      |            |           |           | - Manson <i>hornblende</i> feldspar<br>porphyry  |                                  |   |   |   |   |                    |            |
| 25        |            |           |           |  |                                  |   |   |   |   |                    | 1          |
| 26.52     |            |           |           |  |                                  |   |   |   |   |                    |            |
| 28.05     |            |           |           | near fault area  |                                  |   |   |   |   |                    |            |
| 27.57     | 100        |           |           | matrix gouge 20' to core<br>A2/A3 - rock slightly more bleached & feldspar<br>rusty - manson<br>A2 - bleached fine grained<br>A1/A2 - Hornblende, siliceous porph<br>- bleached<br>- Barite remaining forms some of the<br>ground mass<br>- green Di. clide altering feldspar phenol<br>A1 - manson porph volcanic<br>A3 |                                  |   |   |   |   |                    | 1          |
| 31.1      | 100        |           |           | clay<br>Ba Breccia<br>2.60x 3m<br>gouge<br>gouge + rubble<br>assembly gouge  |                                  |   |   |   |   |                    |            |
| 32.62     | 100        |           |           |  |                                  |   |   |   |   |                    |            |
| 34.14     | 80         |           |           |  |                                  |   |   |   |   |                    | 3          |
| 35.67     |            |           |           | hornblende gouge<br>+ Di. clide<br>bleached fine<br>frag of porph  | A2/A3<br>A3 - manson porph volca |   |   |   |   |                    |            |
| 38.72     |            |           |           | --- END OF HOLE 38.72 m ---  |                                  |   |   |   |   |                    |            |





**DRILL LOG**

|  |  |
|--|--|
| PROJECT<br>AL - BV                         | GROUND ELEV.<br>1615.18m   |
| HOLE NO.<br>AB5-22                         | BEARING<br>200°  |
| LOCATION                                   | DIP<br>-50   |
|  | TOTAL LENGTH<br>58.84 <sub>m</sub> - 193'  |
| LOGGED BY<br>L. ECCLES                     | HORIZONTAL PROJECT   |
| DATE<br>JULY 16/85                         | VERTICAL PROJECT   |
| CONTRACTOR<br>J.T. THOMAS DIAMOND DRILLING | <p><b>ALTERATION SCALE</b></p>  <p>absent<br/>slight<br/>moderate<br/>intense</p>                         |
| CORE SIZE<br>HQ                            | <p><b>TOTAL SULPHIDE SCALE</b></p>  <p>traces only<br/>&lt; 1%<br/>1% - 3%<br/>3% - 10%<br/>&gt; 10%</p> |
| DATE STARTED<br>JULY 15/85                 |  |
| DATE COMPLETED<br>JULY 16/85               |  |
| DIP TESTS                                  |  |
| COMMENTS                                   | LEGEND   |










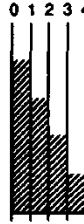


| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION  | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|------------|
|           |            |           |           |   | A          | B | C | D | E |                    |            |
| 46.60     | 100        |           | +         | Rock seems to have more calcite filled<br>geol. fracture than normal<br>up to 48 m. |            |   |   |   |   |                    |            |
| 48.17     | 100        |           |           |   |            |   |   |   |   |                    |            |
| 49.69     | 100        |           |           |   |            |   |   |   |   |                    |            |
| 51.22     | 100        |           |           |   |            |   |   |   |   |                    |            |
| 52.74     | 100        |           |           |   |            |   |   |   |   |                    |            |
| 54.27     | 100        |           |           |   |            |   |   |   |   |                    |            |
| 55.79     | 100        |           |           |   |            |   |   |   |   |                    |            |
| 57.32     | 100        |           |           |   |            |   |   |   |   |                    |            |
| 58.84     | 100        |           |           | --- END OF HOLE 588m ---  |            |   |   |   |   |                    |            |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES |    |       | SAMPLE NUMBER | ASSAYS |  |  |  |
|----------------------------|----------------|---------|----|-------|---------------|--------|--|--|--|
|                            |                | FROM    | TO | WIDTH |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |



**DRILL LOG**

|  |   |
|--|---|
| PROJECT<br>AL - THESIS III   | GROUND ELEV.<br>1657.10m  |
| HOLE NO.<br>A-85-34  | BEARING<br><del>032</del> 37.5°   |
| LOCATION   | DIP<br>-50  |
|  | TOTAL LENGTH<br>184' = 56.09m   |
| LOGGED BY<br>L. ECCLES   | HORIZONTAL PROJECT  |
| DATE<br>JULY 26/85   | VERTICAL PROJECT  |
| CONTRACTOR<br>J.T. THOMAS DIAMOND DRILLING   | ALTERATION SCALE<br> <ul style="list-style-type: none"> <li>absent</li> <li>slight</li> <li>moderate</li> <li>intense</li> </ul>                              |
| CORE SIZE<br>HQ  | TOTAL SULPHIDE SCALE<br> <ul style="list-style-type: none"> <li>traces only</li> <li>&lt; 1%</li> <li>1% - 3%</li> <li>3% - 10%</li> <li>&gt; 10%</li> </ul> |
| DATE STARTED<br>JULY 25/85   |   |
| DATE COMPLETED<br>JULY 25/85   |   |
| DIP TESTS  |   |
| COMMENTS<br>CASING LEFT IN HOLE<br>- rock siliceous & SHATTERED AT<br>bottom of hole | LEGEND  |



| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES |    |       | SAMPLE NUMBER | ASSAYS |  |  |  |
|----------------------------|----------------|---------|----|-------|---------------|--------|--|--|--|
|                            |                | FROM    | TO | WIDTH |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            | 2.1%           |         |    |       |               |        |  |  |  |
|                            | A)             |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |



| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE          | GEOLOGICAL DESCRIPTION  | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ | Z SA |
|-----------|------------|-----------|--------------------|---|------------|---|---|---|---|--------------------|------------|------|
|           |            |           |                    |   | A          | B | C | D | E |                    |            |      |
| 22.47     | 100        |           |                    | A <sub>2</sub> - massive volcanic   |            |   |   |   |   |                    |            |      |
| 25.10     |            |           |                    |   |            |   |   |   |   |                    |            |      |
| 26.52     |            |           |                    |   |            |   |   |   |   |                    |            |      |
| 26.95     |            |           |                    |   |            |   |   |   |   |                    |            |      |
| 29.57     |            |           | Double fault gorge | A <sub>2</sub> - Bleached feldspar porph  |            |   |   |   |   |                    |            |      |
| 31.1      | 90         |           |                    | A <sub>7</sub> /A <sub>2</sub> - low porosity<br>- very rubby & broken up<br>- equal proportions of A <sub>2</sub> & A <sub>7</sub> |            |   |   |   |   | B                  |            |      |
| 32.01     | 90         |           |                    |   |            |   |   |   |   |                    |            |      |
| 33.53     | 90         |           |                    | A <sub>7</sub> - looks almost cherty in places<br>- highly fractured (shattered)<br>- porosity up to 20%<br>- fr. barite            |            |   |   |   |   |                    |            |      |
| 35.06     | 90         |           |                    |   |            |   |   |   |   |                    |            |      |
| 35.97     | 90         |           |                    |   |            |   |   |   |   |                    |            |      |
| 36.58     |            |           | minor fault gorge  | A <sub>3</sub> /A <sub>2</sub> - pink-massive feldspar porph  |            |   |   |   |   |                    |            |      |
| 38.11     |            |           |                    |   |            |   |   |   |   |                    |            |      |
| 39.63     |            |           |                    |   |            |   |   |   |   |                    |            |      |
| 41.16     |            |           |                    |   |            |   |   |   |   |                    |            |      |
| 42.68     |            |           | fault gorge        | A <sub>2</sub> - bleached feldspar porph  |            |   |   |   |   |                    |            |      |
| 44.21     |            |           |                    |   |            |   |   |   |   |                    |            |      |
| 45.73     |            |           |                    |   |            |   |   |   |   |                    |            |      |





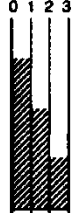
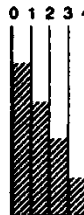




| MINERALIZATION DESCRIPTION                                 | TOTAL SULPHIDE | SAMPLES |       |       | SAMPLE NUMBER | ASSAYS |       |       |
|--|----------------|---------|-------|-------|---------------|--------|-------|-------|
|  |                | FROM    | TO    | WIDTH |               | Ag     | g/t   |       |
|  |                |         |       |       |               |        |       |       |
|  |                |         |       |       |               |        |       |       |
|  |                |         |       |       |               |        |       |       |
|  |                |         |       |       |               |        |       |       |
|  |                | 4.18    | 4.68  | 0.50  | 13765         | 0.05   |       |       |
|  |                |         |       |       |               |        |       |       |
|  |                | 6.81    | 7.81  | 1.0   | 13766         | 0.05   |       |       |
|  |                | 7.81    | 8.81  | 1.0   | 13767         | 0.27   |       |       |
|  |                | 8.81    | 9.81  | 1.0   | 13768         | 0.40   | 0.40  | 0.40  |
|  |                | 9.81    | 10.31 | 0.5   | 13769         | 6.00   | 7.13  | 6.57  |
|  |                | 10.31   | 10.81 | 0.5   | 13770         | 21.33  | 21.40 | 21.37 |
| * one speck visible gold                                   |                | 10.81   | 11.31 | 0.5   | 13771         | 11.47  | 13.73 | 13.70 |
|  |                | 11.31   | 11.81 | 0.5   | 13772         | 2.00   | 1.13  | 1.57  |
| Py as blebs in very fine disse - chalcocyanite, sphalerite |                |         |       |       |               |        |       |       |
|  |                | 11.81   | 12.81 | 1.0   | 13773         | 1.20   | 1.07  | 1.14  |
|  |                | 12.81   | 13.81 | 1.0   | 13774         | 3.33   | 2.60  | 2.00  |
|  |                | 13.81   | 14.81 | 1.0   | 13775         | 4.27   | 6.18  | 5.23  |
|  |                | 14.81   | 15.31 | 0.50  | 13776         | 16.27  | 15.99 | 16.04 |
|  |                | 15.31   | 15.81 | 0.50  | 13777         | 4.80   | 5.33  | 5.07  |
|  |                | 15.81   | 16.31 | 0.50  | 13778         | 0.67   | 0.60  | 0.64  |
|  |                | 16.31   | 16.81 | 0.50  | 13779         | 2.67   | 3.07  | 2.77  |
|  |                | 16.81   | 17.31 | 0.50  | 13780         | 5.47   | 4.87  | 5.17  |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION                    | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|------------|
|           |            |           |           |   | A          | B | C | D | E |                    |            |
| 23.47     |            |           |           | Handwritten note: <i>Handwritten note</i> |            |   |   |   |   |                    |            |
| 25        |            |           |           |   |            |   |   |   |   |                    |            |
| 26.92     |            |           |           |   |            |   |   |   |   |                    |            |
| 28.07     |            |           |           | Handwritten note: <i>Handwritten note</i> |            |   |   |   |   |                    |            |
| 29.57     |            |           |           |   |            |   |   |   |   |                    |            |
| 31.1      |            |           |           | END OF HOLE SLIX                          |            |   |   |   |   |                    |            |

**DRILL LOG**

|  |   |
|--|---|
| PROJECT<br>AL-BV   | GROUND ELEV.<br>1604.62 m   |
| HOLE NO.<br>A-85-15                                      | BEARING<br>200°   |
| LOCATION   | DIP<br>-45  |
|  | TOTAL LENGTH<br>61.89 m 203'  |
| LOGGED BY<br>L. ECCLES                                   | HORIZONTAL PROJECT  |
| DATE<br>JULY 12  | VERTICAL PROJECT  |
| CONTRACTOR<br>J.T. THOMAS DIAMOND DRILLING               | <p style="text-align: center;"><b>ALTERATION SCALE</b></p>  <p>absent<br/>slight<br/>moderate<br/>intense</p>                         |
| CORE SIZE<br>HQ  |   |
| DATE STARTED<br>JULY 11/85                               |   |
| DATE COMPLETED<br>JULY 12/85                             | <p style="text-align: center;"><b>TOTAL SULPHIDE SCALE</b></p>  <p>traces only<br/>&lt; 1%<br/>1% - 3%<br/>3% - 10%<br/>&gt; 10%</p> |
| DIP TESTS  |   |
| COMMENTS<br>WIDE INTERSECTION of changed silicified vein | LEGEND  |













| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION   | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|------------|
|           |            |           |           |  | A          | B | C | D | E |                    |            |
| 46.64     | 100        |           |           | @47.47 Fr = 55° to C/A   |            |   |   |   |   |                    |            |
| 49.00     | 100        | A         |           | A <sub>2</sub> /A <sub>7</sub> feldspar altered to bright green dickite except where silicified. AT = 40° to C/A   |            |   |   |   |   |                    |            |
| 49.29     | 100        | A         |           | rock is highly brecciated with fresh, silicified & clayed feldspar all mixed - some parts of section are bleached maroon feldspar popk with no brecciations. |            |   |   |   |   |                    |            |
| 50.9      | 100        | A         |           | - silicified zones mostly have white & grey chaledone qtz (51.82m chaledone qtz vein @ 90° to C/A)   |            |   |   |   |   |                    |            |
| 52.44     | 100        | A         |           | Trace barite in minor open spaces - AT = 65° to C/A  |            |   |   |   |   |                    |            |
| 52.90     | 100        | A         |           | Ag - Maroon feldspar, hornblende popk @ 53.57m AT = 80° to C/A   |            |   |   |   |   |                    |            |
| 55.64     | 100        |           |           |  |            |   |   |   |   |                    |            |
| 57.16     | 100        | A         |           | A <sub>2</sub> /A <sub>7</sub> - mostly green dickite shadon - some green ph. as (alt feldspar, as well.) Minor silicified feldspar AT = 55° to C/A          |            |   |   |   |   |                    |            |
| 58.69     | 100        | A         |           | Ag MARROON VOLCS AT = 55° to C/A   |            |   |   |   |   |                    |            |
| 60.36     | 100        | A         |           | A <sub>2</sub> /A <sub>7</sub> - fragmented area of banded chaledone qtz - Ksp in it + green dickite as the main clay AT = 45° to C/A                        |            |   |   |   |   |                    |            |
| 61.89     | 100        | A         |           | Ag Maroon hornblende + feldspar popk AT = 65° to C/A   |            |   |   |   |   |                    |            |
| 61.89     |            |           |           | --- END OF HOLE 61.89 m ---  |            |   |   |   |   |                    |            |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES |       |       | SAMPLE NUMBER | ASSAYS |      |      |       |
|----------------------------|----------------|---------|-------|-------|---------------|--------|------|------|-------|
|                            |                | FROM    | TO    | WIDTH |               | AU gm  |      |      |       |
|                            |                | 46.76   | 47.76 |       | 16927         |        |      |      |       |
|                            |                | 47.76   | 48.76 | 1.0   | 13720         | 16.95  | 4.60 | 4.50 | 8.68  |
| py in silicified frags     | 1%             | 48.76   | 49.76 | 1.0   | 13721         | 3.20   | 6.48 |      | 4.845 |
|                            | py             | 49.76   | 50.76 | 1.0   | 13722         | 1.85   | 1.60 |      |       |
|                            |                | 50.76   | 51.76 | 1.0   | 13723         | 1.60   | 2.20 |      |       |
|                            |                | 51.76   | 52.55 |       | 16928         |        |      |      |       |
|                            |                | 52.55   | 53.55 |       | 16929         |        |      |      |       |
|                            |                | 53.55   | 54.55 | 1.0   | 13724         | 0.40   |      |      |       |
|                            |                | 54.55   | 55.58 |       | 16930         |        |      |      |       |
|                            |                | 55.60   | 56.76 |       | 16931         |        |      |      |       |
|                            |                | 56.76   | 57.76 | 1.0   | 13725         | 1.05   |      |      |       |
|                            |                | 57.76   | 58.69 |       | 16932         |        |      |      |       |
|                            |                | 58.69   | 59.6  | 1.0   | 13726         | 6.95   | 6.80 |      | 6.88  |
|                            |                | 59.69   | 60.50 |       | 16933         |        |      |      |       |
|                            | 1%             |         |       |       |               |        |      |      |       |
|                            | py             |         |       |       |               |        |      |      |       |

still waiting for assay Avg 25/85



**DRILL LOG**

|   |  |
|---|--|
| <b>PROJECT</b><br>AL BV                           | <b>GROUND ELEV.</b><br>1557.48m  |
| <b>HOLE NO.</b><br>A 85-16                        | <b>BEARING</b><br>208°   |
| <b>LOCATION</b>                                   | <b>DIP</b><br>-45  |
|   | <b>TOTAL LENGTH</b><br>29.57m - 96'  |
| <b>LOGGED BY</b> LECCLES                          | <b>HORIZONTAL PROJECT</b>  |
| <b>DATE</b> JULY 13/85                            | <b>VERTICAL PROJECT</b>  |
| <b>CONTRACTOR</b><br>J.T. THOMAS DIAMOND DRILLING | <p><b>ALTERATION SCALE</b></p>  <p>absent<br/>slight<br/>moderate<br/>intense</p>                         |
| <b>CORE SIZE</b><br>HQ                            |  |
| <b>DATE STARTED</b><br>JULY 12/85                 | <p><b>TOTAL SULPHIDE SCALE</b></p>  <p>traces only<br/>&lt; 1%<br/>1% - 3%<br/>3% - 10%<br/>&gt; 10%</p> |
| <b>DATE COMPLETED</b><br>JULY 12/85               |  |
| <b>DIP TESTS</b>                                  |  |
| <b>COMMENTS</b>                                   | <b>LEGEND</b>  |



| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION   | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|------------|
|           |            |           |           |  | A          | B | C | D | E |                    |            |
|           |            |           |           | CASING   |            |   |   |   |   |                    |            |
| 3.1       |            |           |           |  |            |   |   |   |   |                    |            |
| 4.57      | 80         |           |           | clay gouge<br>A2/A3 - Manson + orange, pink, hematite<br>feldspar porph. Fractured + block'd. Rusty feldspar<br>- Banded Ba xstals in some fractures<br>- rust on fracture surfaces  |            |   |   |   |   | 2                  | 15         |
| 6.10      | 90         |           |           | clay gouge<br>A7 - (A2 along faults + in gouge)<br>- some qtz is chalcidone<br>- porosity up to 3%<br>- minor blobs of f.g. basite filling open space<br>- rusty along faults (see weath)  |            |   |   |   |   | 3                  | 20         |
| 7.01      |            |           |           |  |            |   |   |   |   |                    |            |
| 8.57      |            |           |           |  |            |   |   |   |   |                    |            |
| 9.5       |            |           |           |  |            |   |   |   |   |                    |            |
| 11.5      |            |           |           |  |            |   |   |   |   |                    |            |
| 12.5      |            |           |           |  |            |   |   |   |   |                    |            |
| 13.11     | 92         |           |           | clay gouge<br>- bright green<br>- bright along<br>shear + altered<br>feldspar<br>A2 - All feldspars + most hematite<br>altered - porphyritic textures obliterated at<br>top of section due to gouge<br>- Bright green blebs of Diacide (taken)<br>also altering feldspars<br>- rock is a light to med pink color |            |   |   |   |   |                    |            |
| 14.3      |            |           |           |  |            |   |   |   |   |                    |            |
| 16.16     |            |           |           |  |            |   |   |   |   |                    |            |
| 17.0      | 90         |           |           | clay gouge<br>A7 - chalcidone white - gray qtz<br>- original textures obliterated<br>A2 - most feldspar phenos altered to green diacide<br>- rock ranges from light pink to light green<br>- very narrow siliceous section   |            |   |   |   |   |                    |            |
| 18.21     |            |           |           |  |            |   |   |   |   |                    |            |
| 20.13     |            |           |           |  |            |   |   |   |   |                    |            |
| 22.15     |            |           |           | clay gouge   |            |   |   |   |   |                    |            |



| MINERALIZATION DESCRIPTION   | TOTAL SULPHIDE            | SAMPLES |       |       | SAMPLE NUMBER | ASSAYS    |      |                 |
|--|---------------------------|---------|-------|-------|---------------|-----------|------|-----------------|
|  |                           | FROM    | TO    | WIDTH |               | <i>Ag</i> |      |                 |
| Some blue black colored mal. disc. in silicified section, also dec. copy | <i>2-3% py</i>            | 5.75    | 6.75  | 1.0   | 13727         | 0.25      | 0.20 | <del>2.47</del> |
|  |                           | 6.75    | 7.25  | 0.5   | 13728         | 2.80      | 2.13 | 2.47            |
|  |                           | 7.25    | 7.75  | 0.50  | 13729         | 2.95      | 2.33 | 2.64            |
|  |                           | 7.75    | 8.75  | 1.0   | 13730         | 1.60      | 1.20 | 1.40            |
|  |                           | 8.75    | 9.75  | 1.0   | 13731         | 4.25      | 4.13 | 4.19            |
|  |                           | 9.75    | 10.47 | 0.72  | 13732         | 0.40      |      |                 |
|  | <i>1% py</i>              | 10.47   | 11.47 | 1.0   | 13733         | 2.08      |      |                 |
|  |                           | 11.47   | 12.99 | 0.97  | 13734         | 0.15      |      |                 |
|  |                           | 16.71   | 17.71 | 1.0   | 13735         | 0.40      |      |                 |
|  |                           | 17.71   | 18.71 | 1.0   | 13736         | 0.15      |      |                 |
| Blue grey blebs disc. through silicified section                         | <del><i>1.8% py</i></del> |         |       |       |               |           |      |                 |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION   | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
|           |            |           |           |  | A          | B | C | D | E |                    |             |
| 23.17     |            |           |           | A <sub>2</sub>   |            |   |   |   |   |                    |             |
| 24.69     | 100        |           |           |  |            |   |   |   |   |                    |             |
| 26.22     | 100        |           |           |  |            |   |   |   |   |                    |             |
| 27.74     | 100        |           |           |  |            |   |   |   |   |                    |             |
| 29.57     | 100        |           |           | A <sub>3</sub> /A <sub>2</sub> Rock is less banded + finer looking<br>END OF HOLE - 29.57m |            |   |   |   |   |                    |             |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES |    |       | SAMPLE NUMBER | ASSAYS |  |  |  |
|----------------------------|----------------|---------|----|-------|---------------|--------|--|--|--|
|                            |                | FROM    | TO | WIDTH |               |        |  |  |  |
|                            | TR<br>P4       |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            | TR<br>P4       |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |
|                            |                |         |    |       |               |        |  |  |  |



**DRILL LOG**

|  |  |
|--|--|
| PROJECT<br>AL - BV                         | GROUND ELEV.<br>1557.45m   |
| HOLE NO.<br>A-85-17                        | BEARING<br>209°  |
| LOCATION                                   | DIP<br>-64   |
|  | TOTAL LENGTH<br>30.79m - 101'  |
| LOGGED BY<br>L ECCLES                      | HORIZONTAL PROJECT   |
| DATE                                       | VERTICAL PROJECT   |
| CONTRACTOR<br>J.T. THOMAS DIAMOND DRILLING | <p style="text-align: center;"><b>ALTERATION SCALE</b></p>  <p>0 1 2 3<br/>absent<br/>slight<br/>moderate<br/>intense</p>                           |
| CORE SIZE<br>110                           | <p style="text-align: center;"><b>TOTAL SULPHIDE SCALE</b></p>  <p>0 1 2 3 4<br/>traces only<br/>&lt; 1%<br/>1% - 3%<br/>3% - 10%<br/>&gt; 10%</p> |
| DATE STARTED<br>JULY 13/85                 |  |
| DATE COMPLETED<br>JULY 13 85               | LEGEND   |
| DIP TESTS                                  |  |
| COMMENTS                                   |  |













**DRILL LOG**

|  |  |
|--|--|
| <b>PROJECT</b><br>AL - BV                          | <b>GROUND ELEV.</b><br>1590.92 m   |
| <b>HOLE NO.</b><br>A-95-19                         | <b>BEARING</b><br>195°   |
| <b>LOCATION</b><br>Same loc as A 89-13             | <b>DIP</b><br>-25° (cor -83°)  |
|  | <b>TOTAL LENGTH</b><br>43.29 m - 142'  |
| <b>LOGGED BY</b><br>L ECCLES                       | <b>HORIZONTAL PROJECT</b>  |
| <b>DATE</b><br>JULY 14/85                          | <b>VERTICAL PROJECT</b>  |
| <b>CONTRACTOR</b><br>J. T. THOMAS DIAMOND DRILLING | <b>ALTERATION SCALE</b><br><ul style="list-style-type: none"> <li>0 absent</li> <li>1 slight</li> <li>2 moderate</li> <li>3 intense</li> </ul>                               |
| <b>CORE SIZE</b><br>HQ                             |  |
| <b>DATE STARTED</b><br>JULY 13/85                  |  |
| <b>DATE COMPLETED</b><br>JULY 13/85                |  |
| <b>DIP TESTS</b>                                   | <b>TOTAL SULPHIDE SCALE</b><br><ul style="list-style-type: none"> <li>0 traces only</li> <li>1 &lt; 1%</li> <li>2 1% - 3%</li> <li>3 3% - 10%</li> <li>4 &gt; 10%</li> </ul> |
| <b>COMMENTS</b>                                    | <b>LEGEND</b>  |



| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES |       |       | SAMPLE NUMBER | ASSAYS |       |  |                              |
|----------------------------|----------------|---------|-------|-------|---------------|--------|-------|--|------------------------------|
|                            |                | FROM    | TO    | WIDTH |               | Au g/t |       |  |                              |
|                            |                |         |       |       |               |        |       |  |                              |
|                            |                |         |       |       |               |        |       |  |                              |
|                            |                |         |       |       |               |        |       |  |                              |
|                            |                |         |       |       |               |        |       |  |                              |
|                            |                |         |       |       |               |        |       |  |                              |
|                            |                |         |       |       | 13751         |        |       |  |                              |
|                            |                | 4.71    | 7.69  | .98   | 13752         |        |       |  |                              |
|                            |                |         |       |       |               |        |       |  | Dummy Sample Golden Fretting |
|                            |                | 7.69    | 8.43  | .74   | 13753         |        |       |  |                              |
|                            | 2%             | 8.43    | 9.17  | .74   | 13754         |        |       |  |                              |
|                            | Py             | 9.17    | 9.83  | 0.66  | 13755         |        |       |  |                              |
|                            |                | 9.83    | 10.50 | 0.67  | 13756         |        |       |  |                              |
|                            |                | 10.50   | 11.50 | 1.0   | 13757         |        |       |  |                              |
|                            |                | 11.50   | 12.50 | 1.0   | 13758         |        |       |  |                              |
|                            |                | 12.50   | 13.41 | 0.91  | 13759         |        |       |  |                              |
|                            | 2%             | 13.41   | 14.14 | 0.73  | 13760         | 18.15  | 18.53 |  | 18.34                        |
|                            |                | 14.14   | 15.14 | 1.0   | 13761         | 2.95   | 3.13  |  | 3.04                         |
|                            | 5%             | 15.14   | 16.14 | 1.0   | 13762         | 0.40   | 0.27  |  |                              |
|                            |                | 16.14   | 17.38 | 1.24  | 13763         | 2.55   | 2.53  |  | 2.54                         |
|                            |                | 17.38   | 18.50 | 1.12  | 13764         |        |       |  |                              |
|                            |                |         |       |       |               |        |       |  |                              |
|                            |                |         |       |       |               |        |       |  |                              |
|                            |                |         |       |       |               |        |       |  |                              |
|                            |                |         |       |       |               |        |       |  |                              |


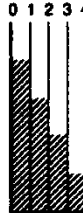
| DEPTH (M) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION                        | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
|           |            |           |           |   | A          | B | C | D | E |                    |             |
| 23.71     |            |           |           | A3 - Massive, v. fine<br>- very fresh looking |            |   |   |   |   |                    |             |
| 25        |            |           |           |   |            |   |   |   |   |                    |             |
| 26.52     |            |           |           |   |            |   |   |   |   |                    |             |
| 28.05     |            |           |           |   |            |   |   |   |   |                    |             |
| 29.57     |            |           |           |   |            |   |   |   |   |                    |             |
| 31.09     |            |           |           |   |            |   |   |   |   |                    |             |
| 32.62     |            |           |           |   |            |   |   |   |   |                    |             |
| 34.14     |            |           |           |   |            |   |   |   |   |                    |             |
| 35.67     |            |           |           |   |            |   |   |   |   |                    |             |
| 37.19     |            |           |           | st. l. purph<br>frag.                         |            |   |   |   |   |                    |             |
| 38.72     |            |           |           |   |            |   |   |   |   |                    |             |
| 40.24     |            |           |           |   |            |   |   |   |   |                    |             |
| 41.77     |            |           |           |   |            |   |   |   |   |                    |             |
| 43.29     |            |           |           | --- END OF HOLE 43.29 m ---                   |            |   |   |   |   |                    |             |







Table with columns: DEPTH (m), % CORE REC, LITHOLOGY, STRUCTURE, GEOLOGICAL DESCRIPTION, ALTERATION (A-E), FRACTURE INTENSITY, % VEIN QTZ. Includes a vertical depth scale on the left side.

**DRILL LOG**

|  |   |
|--|---|
| PROJECT<br>AL-BV                             | GROUND ELEV.<br>1590.89m  |
| HOLE NO.<br>A-85-19                          | BEARING<br>195°   |
| LOCATION                                     | DIP<br>-73° (cor -70°)<br>TOTAL LENGTH<br>311m - 102'   |
| LOGGED BY<br>L. ECCLES                       | HORIZONTAL PROJECT  |
| DATE<br>JULY 14/85                           | VERTICAL PROJECT  |
| CONTRACTOR<br>J. T. THOMAS DIAMONDS DRILLING | <p><b>ALTERATION SCALE</b></p>  <p>absent<br/>slight<br/>moderate<br/>intense</p>                         |
| CORE SIZE<br>1/2                             | <p><b>TOTAL SULPHIDE SCALE</b></p>  <p>traces only<br/>&lt; 1%<br/>1% - 3%<br/>3% - 10%<br/>&gt; 10%</p> |
| DATE STARTED<br>JULY 14/85                   | <p><b>LEGEND</b></p> <p>THERE MUST BE REVERSE Faults displacing the zone to make it look like 2 veins instead of really one !!</p>  |
| DATE COMPLETED<br>JULY 14/85                 |   |
| DIP TESTS                                    |   |



**DRILL LOG**

|   |   |
|---|---|
| PROJECT<br>A-BV                             | GROUND ELEV.<br>1600.04 m   |
| HOLE NO.<br>A-85-12                         | BEARING<br>200°   |
| LOCATION                                    | DIP<br>-45  |
|   | TOTAL LENGTH<br>46.64 m (153')  |
| LOGGED BY<br>L. ECCLES                      | HORIZONTAL PROJECT  |
| DATE<br>JULY 10 / 85                        | VERTICAL PROJECT  |
| CONTRACTOR<br>J. T. THOMAS DIAMOND DRILLING | <p style="text-align: center;"><b>ALTERATION SCALE</b></p>  <p>0 1 2 3<br/>absent<br/>slight<br/>moderate<br/>intense</p>                           |
| CORE SIZE<br>HQ                             | <p style="text-align: center;"><b>TOTAL SULPHIDE SCALE</b></p>  <p>0 1 2 3 4<br/>traces only<br/>&lt; 1%<br/>1% - 3%<br/>3% - 10%<br/>&gt; 10%</p> |
| DATE STARTED<br>JULY 9                      |   |
| DATE COMPLETED<br>JULY 9                    | LEGEND  |
| DIP TESTS                                   |   |
| COMMENTS                                    |   |





| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION  | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
|           |            |           |           |   | A          | B | C | D | E |                    |             |
| 23.78     | 100        |           |           | minor white base, red, white, no...<br>mamm volcanics   |            |   |   |   |   |                    |             |
| 25.30     | 100        |           |           |   |            |   |   |   |   |                    |             |
| 26.83     | 100        |           |           | - S0 S  |            |   |   |   |   |                    |             |
| 28.35     | 98         |           |           | crumbly sect in...<br>- S0 S  |            |   |   |   |   |                    |             |
| 29.88     | 100        |           |           | gouge   |            |   |   |   |   |                    |             |
| 31.40     | 100        |           |           | gouge   |            |   |   |   |   |                    |             |
| 32.92     | 100        |           |           |   |            |   |   |   |   |                    |             |
| 34.49     | 100        |           |           |   |            |   |   |   |   |                    |             |
| 35.97     | 100        |           |           | manon gouge<br>Sun green gouge  |            |   |   |   |   |                    |             |
| 37.50     | 100        |           |           | 2cm green gouge   |            |   |   |   |   |                    |             |
| 39.02     | 100        |           |           | 3cm green gouge<br>12cm - 2 between ducts<br>Sun green gouge<br>A2 - large of its<br>- very brecciated - large of manon volcanics<br>+ silicified pyritized volcanics (A2)<br>- No distinct veins |            |   |   |   |   |                    |             |
| 40.55     | 100        |           |           | - upper contact is 30° to core axis   |            |   |   |   |   |                    |             |
| 42.07     | 100        |           |           | A2 - same<br>A2 Gouge<br>A3 - manon volcanics   |            |   |   |   |   |                    |             |
| 43.59     | 100        |           |           | - same as entire hole   |            |   |   |   |   |                    |             |
| 45.12     | 100        |           |           |   |            |   |   |   |   |                    |             |







**DRILL LOG**

|  |                                 |
|--|---------------------------------|
| PROJECT<br>A1 - Bv                       | GROUND ELEV.                    |
| HOLE NO.<br>A-85-13                      | BEARING<br>200°                 |
| LOCATION                                 | DIP<br>-65°                     |
|  | TOTAL LENGTH<br>202' 61.58m     |
| LOGGED BY<br>LECCLES                     | HORIZONTAL PROJECT              |
| DATE<br>July 10/85                       | VERTICAL PROJECT                |
| CONTRACTOR<br>JT THOMAS DIAMOND DRILLING | <b>ALTERATION SCALE</b><br>     |
| CORE SIZE<br>H Q                         |                                 |
| DATE STARTED<br>JULY 9                   | <b>TOTAL SULPHIDE SCALE</b><br> |
| DATE COMPLETED<br>JULY 10                |                                 |
| DIP TESTS                                |                                 |
| COMMENTS                                 | LEGEND                          |



| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES |       |       | SAMPLE NUMBER | ASSAYS |      |       |              |
|----------------------------|----------------|---------|-------|-------|---------------|--------|------|-------|--------------|
|                            |                | FROM    | TO    | WIDTH |               | AV gwt |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         | 13.15 | 13.65 | 0.50          | 13701  | 1.05 | 0.20  | 0.63         |
|                            |                |         | 13.65 | 14.15 | 0.50          | 13702  | 1.05 | 0.70  | 0.88         |
|                            |                |         | 14.15 | 14.65 | 0.50          | 13703  | 2.55 | 2.53  | 2.54         |
|                            |                |         | 14.65 | 15.15 | 0.50          | 13704  | 1.67 | 13705 | Dummy Sample |
|                            |                |         | 15.15 | 15.93 | 0.78          | 13706  | 3.60 | 2.83  | 5.22         |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |
|                            |                |         |       |       |               |        |      |       |              |







| DEPTH (m) | % CORE REC | LITHOLOGY   | STRUCTURE | GEOLOGICAL DESCRIPTION            | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-------------|-----------|-----------------------------------|------------|---|---|---|---|--------------------|------------|
|           |            |             |           |                                   | A          | B | C | D | E |                    |            |
| 46.34     | 100        |             |           | Manson ...                        |            |   |   |   |   |                    |            |
| 47.80     |            |             |           |                                   |            |   |   |   |   |                    |            |
| 49.30     |            |             |           |                                   |            |   |   |   |   |                    |            |
| 50.91     |            |             |           |                                   |            |   |   |   |   |                    |            |
| 52.44     | 75         | Δ<br>D<br>D |           | Manson fault zone<br>S carb. vein |            |   |   |   |   |                    |            |
| 53.96     |            |             |           |                                   |            |   |   |   |   |                    |            |
| 55.48     |            |             |           |                                   |            |   |   |   |   |                    |            |
| 57.01     |            |             |           |                                   |            |   |   |   |   |                    |            |
| 58.89     |            |             |           | 7 bleached zone<br>pink           |            |   |   |   |   |                    |            |
| 60.36     |            |             |           |                                   |            |   |   |   |   |                    |            |
| 61.58     |            |             |           | ---END OF HOLE - 61.58m---        |            |   |   |   |   |                    |            |







**DRILL LOG**

|  |  |
|--|--|
| PROJECT<br>AL - BY ZONE                    | GROUND ELEV.<br>1599.84m   |
| HOLE NO.<br>A-85-14                        | BEARING<br>200°  |
| LOCATION                                   | DIP<br>- 45°   |
|  | TOTAL LENGTH<br>48.17m 158'  |
| LOGGED BY<br>L. ECCLES                     | HORIZONTAL PROJECT   |
| DATE<br>JULY 11/85                         | VERTICAL PROJECT   |
| CONTRACTOR<br>J.T. THOMAS DIAMOND DRILLING | <p style="text-align: center;"><b>ALTERATION SCALE</b></p>  <p>0 1 2 3</p> <p>absent<br/>slight<br/>moderate<br/>intense</p>                           |
| CORE SIZE<br>HQ                            | <p style="text-align: center;"><b>TOTAL SULPHIDE SCALE</b></p>  <p>0 1 2 3 4</p> <p>traces only<br/>&lt; 1%<br/>1% - 3%<br/>3% - 10%<br/>&gt; 10%</p> |
| DATE STARTED<br>JULY 10/85                 |  |
| DATE COMPLETED<br>JULY 11/85               |  |
| DIP TESTS                                  | LEGEND   |
| COMMENTS                                   |  |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION   | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
|           |            |           |           |  | A          | B | C | D | E |                    |             |
|           |            |           |           | CASING   |            |   |   |   |   |                    |             |
| 3.62      |            |           |           | Pg. Porphyritic MARION VOLCANICS   |            |   |   |   |   |                    |             |
| 4.27      |            |           |           |  |            |   |   |   |   |                    |             |
| 5.44      |            |           |           |  |            |   |   |   |   |                    |             |
| 7.01      |            |           |           |  |            |   |   |   |   |                    |             |
| 8.53      |            |           |           |  |            |   |   |   |   |                    |             |
| 10.06     |            |           |           |  |            |   |   |   |   |                    |             |
| 11.58     |            |           |           |  |            |   |   |   |   |                    |             |
| 13.11     |            |           |           |  |            |   |   |   |   |                    |             |
| 14.63     |            |           |           |  |            |   |   |   |   |                    |             |
| 16.16     |            |           |           |  |            |   |   |   |   |                    |             |
| 17.69     |            |           |           | A1/A2 - fault at 45° to core   |            |   |   |   |   |                    |             |
| 19.21     |            |           |           | A3   |            |   |   |   |   |                    |             |
| 20.13     |            |           |           | A2 - Brecciated siliceous zone<br>- some clay along fractures<br>- white to grey cherty base of Anale hor A3 |            |   |   |   |   |                    |             |
| 22.25     |            |           |           | Bodily breker  |            |   |   |   |   |                    |             |

Δ  
 Δ  
 Δ  
 Δ  
 Δ  
 Δ  
 Δ

clay  
 A2  
 A7

AT @ 70° to K/A

100%  
SAND

















**DRILL LOG**

|  |   |
|--|---|
| PROJECT<br>AL - THESIS III   | GROUND ELEV.<br>1649.36m  |
| HOLE NO.<br>A-85-03  | BEARING<br><del>032°</del> from surveyed FS & BS 034°30'  |
| LOCATION   | DIP<br>-46°   |
|  | TOTAL LENGTH<br>58.53m (192')   |
| LOGGED BY<br>L ECCLES  | HORIZONTAL PROJECT  |
| DATE<br>JUNE 29/85   | VERTICAL PROJECT  |
| CONTRACTOR<br>J.T THOMAS DIAMOND DRILLING  | <p><b>ALTERATION SCALE</b></p>  <p>0 1 2 3<br/>absent<br/>slight<br/>moderate<br/>intense</p>                           |
| CORE SIZE<br>HQ  | <p><b>TOTAL SULPHIDE SCALE</b></p>  <p>0 1 2 3 4<br/>traces only<br/>&lt; 1%<br/>1% - 3%<br/>3% - 10%<br/>&gt; 10%</p> |
| DATE STARTED<br>JUNE 20/85   | <p><b>LEGEND</b></p> <p>A<sub>g</sub> - propylitic - sericitic<br/>A<sub>2</sub> - Argillic<br/>A<sub>7</sub> - Silicification w/ Py.</p>   |
| DATE COMPLETED<br>JUNE 29/85   |   |
| DIP TESTS<br>58.53m —  |   |
| <p><b>COMMENTS</b></p> <p>To TEST THESIS III ZONE FROM OTHER DIRECTION<br/>- HIT AU zone high up in section.</p> |   |







| MINERALIZATION DESCRIPTION  | TOTAL SULPHIDE | SAMPLES |       |       | SAMPLE NUMBER | ASSAYS  |            |            |      |
|-----------------------------|----------------|---------|-------|-------|---------------|---------|------------|------------|------|
|                             |                | FROM    | TO    | WIDTH |               | Avg g/t | 2nd reject | 3rd reject | A    |
|                             |                | 24.01   | 24.51 | .50   | 15269<br>277  | 1.20    | 1.27       |            | 1.24 |
|                             | 3%             | 24.51   | 25.01 | .50   | 15270         | 6.55    | 4.67       |            | 5.61 |
| *UG Zbc + chalcopyrite      |                | 25.01   | 25.51 | .50   | 15271         | 5.85    | 4.07       |            | 4.96 |
|                             |                | 25.51   | 26.01 | .50   | 15272         | 2.95    | 2.27       |            | 2.61 |
|                             |                | 26.01   | 26.51 | .50   | 15273         | 1.35    | 1.47       | 1.41       | 2.82 |
|                             |                | 26.51   | 27.01 | .50   | 15274         | 1.05    | 1.20       |            | 1.13 |
|                             |                | 27.01   | 27.51 | .50   | 15275         | 1.35    | 0.87       |            | 1.11 |
| Broken →                    |                | 27.51   | 28.05 | .54   | 15276         | 1.75    | 1.33       |            | 1.54 |
|                             | 4%             | 28.05   | 28.55 | .50   | 15277         | 1.20    | 1.60       |            | 1.40 |
|                             |                | 28.55   | 29.05 | .50   | 15278         | 1.35    | 1.33       |            | 1.34 |
|                             |                | 29.05   | 29.55 | .50   | 15279         | 1.05    | 1.47       |            | 1.26 |
| Contact A7 A2 - Broken      |                | 29.55   | 31.10 | 1.55  | 15280         | 1.85    | 2.67       |            | 2.26 |
|                             |                | 31.10   | 32.10 | 1.0   | 15281         | 0.55    |            |            |      |
| * sample 15682 Dummy Sample |                |         |       |       |               |         |            |            |      |
|                             | 2%             | 32.10   | 33.10 | 1.0   | 15283         | 0.35    |            |            |      |
|                             |                | 33.10   | 34.10 | 1.0   | 15284         | 0.25    |            |            |      |
|                             |                | 34.10   | 35.10 | 1.0   | 15285         | 0.55    |            |            |      |
|                             |                | 35.10   | 36.10 | 1.0   | 15286         | .80     |            |            |      |
|                             | 3%             | 36.10   | 37.10 | 1.0   | 15287         | 3.90    |            |            |      |
|                             |                | 37.10   | 38.10 | 1.0   | 15288         | 1.90    |            |            |      |
|                             |                | 38.10   | 39.10 | 1.0   | 15289         | 0.50    |            |            |      |
|                             |                | 39.10   | 40.10 | 1.0   | 15290         | 0.60    |            |            |      |
|                             | 1%             | 40.10   | 41.10 | 1.0   | 15291         | <0.05   |            |            |      |
|                             |                | 41.10   | 42.10 | 1.0   | 15292         | <0.05   |            |            |      |
|                             | 3%             | 42.10   | 43.10 | 1.0   | 15293         | 0.20    |            |            |      |
|                             |                | 43.10   | 44.10 | 1.0   | 15294         | 0.10    |            |            |      |
|                             |                | 44.10   | 45.10 | 1.0   | 15295         | 0.50    |            |            |      |
|                             |                | 45.10   | 46.10 | 1.0   | 15296         | 0.30    |            |            |      |



| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION                                   | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|------------|
|           |            |           |           |  | A          | B | C | D | E |                    |            |
| 46.34     | 90         |           |           | A <sub>2</sub> / A <sub>3</sub>                          |            |   |   |   |   |                    |            |
| 47.25     | 98         |           |           | Gumbo clay zone  |            |   |   |   |   |                    |            |
| 48.11     | 98         |           |           |  |            |   |   |   |   |                    |            |
| 48.78     | 80         |           |           |  |            |   |   |   |   |                    |            |
| 50.3      | 98         |           |           |  | 3          |   |   |   |   |                    |            |
| 52.44     | 90         |           |           |  |            |   |   |   |   |                    |            |
| 52.96     | 100        |           |           |  |            |   |   |   |   |                    |            |
| 55.40     | 100        |           |           |  |            |   |   |   |   |                    |            |
| 57.01     | 100        |           |           | A <sub>2</sub> - Pinkish bleached clay to propylitic alt | 3          |   |   |   |   | 1                  |            |
| 58.53     |            |           |           | 58.53 - END OF HOLE                                      |            |   |   |   |   |                    |            |







**DRILL LOG**

|  |   |
|--|---|
| PROJECT<br>A1- THESIS III                  | GROUND ELEV.<br>1650.84 m   |
| HOLE NO.<br>A-85-04                        | BEARING<br><del>215</del> From surveyed FS<br>285 (215°)  |
| LOCATION                                   | DIP<br>- 45   |
| LOGGED BY<br>L ECCLES                      | TOTAL LENGTH<br>43.29 - (142')  |
| DATE<br>JUNE 30 /85                        | HORIZONTAL PROJECT  |
| CONTRACTOR<br>J.T. THOMAS DIAMOND DRILLING | VERTICAL PROJECT  |
| CORE SIZE<br>HQ                            | <p style="text-align: center;"><b>ALTERATION SCALE</b></p>  <p>0 1 2 3</p> <ul style="list-style-type: none"> <li>absent</li> <li>slight</li> <li>moderate</li> <li>intense</li> </ul>                                |
| DATE STARTED<br>JUNE 29                    | <p style="text-align: center;"><b>TOTAL SULPHIDE SCALE</b></p>  <p>0 1 2 3 4</p> <ul style="list-style-type: none"> <li>traces only</li> <li>&lt; 1%</li> <li>1% - 3%</li> <li>3% - 10%</li> <li>&gt; 10%</li> </ul> |
| DATE COMPLETED<br>JUNE 30/85               | <p style="text-align: center;"><b>LEGEND</b></p>  |
| DIP TESTS                                  | <p>* No apparent sfc alteration effects in this hole</p>  |
| COMMENTS                                   |   |







| MINERALIZATION DESCRIPTION   | TOTAL SULPHIDE | SAMPLES                               |       |       | SAMPLE NUMBER | ASSAYS |           |      |  |
|--|----------------|---------------------------------------|-------|-------|---------------|--------|-----------|------|--|
|  |                | FROM                                  | TO    | WIDTH |               | AV g/t | 2nd r. a. | A    |  |
|  |                | 23.00                                 | 23.50 | 0.50  | 15318         | 1.60   | 1.53      | 1.57 |  |
|  |                | 23.50                                 | 24.00 | 0.50  | 15319         | 1.60   | 1.07      | 1.54 |  |
|  |                | 24.00                                 | 25.00 | 1.00  | 15320         | 1.80   | 1.67      | 1.74 |  |
|  |                | 25.00                                 | 26.00 | 1.00  | 15321         | 0.05   | 0.20      |      |  |
|  |                | 26.00                                 | 27.00 | 1.00  | 15322         | 0.10   | 0.33      |      |  |
|  |                | 27.00                                 | 27.60 | 0.60  | 15323         | 0.60   | 0.83      |      |  |
|  |                | 27.60                                 | 28.23 | 0.63  | 15324         | 0.20   | 0.40      |      |  |
|  |                | 28.23                                 | 28.71 | 0.48  | 15325         | 1.10   | 1.40      | 1.25 |  |
|  |                | 28.71                                 | 29.61 | 0.90  | 15326         | 1.20   | 1.20      | 1.20 |  |
|  |                | 29.61                                 | 30.51 | 0.90  | 15327         | 0.20   | 0.33      | 0.27 |  |
|  |                | 30.51                                 | 31.41 | 0.90  | 15328         | 1.20   | 0.67      | 0.94 |  |
|  |                | 31.41                                 | 32.31 | 0.90  | 15329         | 0.90   | 0.73      | 0.82 |  |
|  |                | 32.31                                 | 33.00 | 0.77  | 15330         | 0.20   | 0.30      |      |  |
|  | 18/24          | dummy sample # 15331 (core rack area) |       |       |               |        |           | 0.05 |  |
| <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> <math>9.0\text{ m} \times 31.41\text{ m} = 22.41\text{ m}^2</math><br/> <math>4.12\text{ g}</math> </div> |                |                                       |       |       |               |        |           |      |  |

8.91  
0.94



**DRILL LOG**

|  |  |
|--|--|
| PROJECT<br>AL - THESIS II  | GROUND ELEV.<br>1653.43 m  |
| HOLE NO.<br>A-85-05  | BEARING<br>215° <sup>from survey</sup><br>215°   |
| LOCATION   | DIP<br>-45°  |
|  | TOTAL LENGTH<br>30.49 m - 100'   |
| LOGGED BY<br>L. ECCLES   | HORIZONTAL PROJECT   |
| DATE   | VERTICAL PROJECT   |
| CONTRACTOR<br>J.T. THOMAS DIAMOND DRILLING   | ALTERATION SCALE<br>0 1 2 3<br>absent<br>slight<br>moderate<br>intense                   |
| CORE SIZE<br>HQ  | TOTAL SULPHIDE SCALE<br>0 1 2 3 4<br>traces only<br>< 1%<br>1% - 3%<br>3% - 10%<br>> 10% |
| DATE STARTED<br>JUNE 30/85   |  |
| DATE COMPLETED<br>JULY 1/85  | LEGEND   |
| DIP TESTS  |  |
| COMMENTS<br>TESTING UNDER A NARROWER PART OF ZONE (ON SURFACE)<br>J. THOMAS DRILLED TO TEST ROCK DUE TO SO MANY PROBLEMS ENCOUNTERED WITH WEARING BITS & USING MUD |  |



| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ | % BFA |
|-----------|------------|-----------|-----------|------------------------|------------|---|---|---|---|--------------------|------------|-------|
|           |            |           |           |                        | A          | B | C | D | E |                    |            |       |
|           |            |           |           | CASING                 |            |   |   |   |   |                    |            |       |
| 8.53      |            |           |           |                        |            |   |   |   |   |                    |            |       |
| 9.0       |            |           |           |                        |            |   |   |   |   |                    |            |       |
| 10.06     |            |           |           |                        |            |   |   |   |   |                    |            |       |
| 11.58     |            |           |           |                        |            |   |   |   |   | 2                  |            |       |
| 13.11     |            |           |           |                        |            |   |   |   |   | 3                  |            |       |
| 14.63     |            |           |           |                        |            |   |   |   |   |                    |            | TR    |
| 16.16     |            |           |           |                        |            |   |   |   |   | 5                  |            | TR    |
| 17.60     |            |           |           |                        |            |   |   |   |   |                    |            |       |
| 19.21     |            |           |           |                        |            |   |   |   |   |                    |            |       |
| 20.77     |            |           |           |                        |            |   |   |   |   |                    |            |       |
| 21.34     |            |           |           |                        |            |   |   |   |   |                    |            | 2%    |
| 22.86     |            |           |           |                        |            |   |   |   |   |                    |            |       |

CASING

GOUGE

A2 - very bleached  
 - low porosity  
 - minor Fe along fracture planes

GOUGE

very vuggy - deep  
 bleached

Porosity increases with depth

A7 - porosity = 2-7%  
 (generally less porous than same zone  
 in other locations)  
 - not brecciated / low Ba content

A7-A2 - porosity 2% - very bleached  
 - all feldspar clayed

GOUGE

pebbly  
 vuggy (small)

A7 - slightly vuggy along fracture  
 planes  
 - Porosity 1% Ba in vugs











**DRILL LOG**

|  |   |
|--|---|
| PROJECT<br>A. THESIS II                            | GROUND ELEV.<br>1650.81m  |
| HOLE NO.<br>A-85-06                                | BEARING<br>033.5 From surveyed FS285 035°   |
| LOCATION<br>OPP DH # A85-04                        | DIP<br>-60°<br>TOTAL LENGTH<br>72.25m.  |
| LOGGED BY<br>L ECCLES                              | HORIZONTAL PROJECT  |
| DATE<br>JULY 2 /85                                 | VERTICAL PROJECT  |
| CONTRACTOR<br>J.T. THOMAS DIAMOND DRILLING         | <p><b>ALTERATION SCALE</b></p>  <p>absent<br/>slight<br/>moderate<br/>intense</p>                         |
| CORE SIZE<br>HQ                                    | <p><b>TOTAL SULPHIDE SCALE</b></p>  <p>traces only<br/>&lt; 1%<br/>1% - 3%<br/>3% - 10%<br/>&gt; 10%</p> |
| DATE STARTED<br>JULY 1 /85                         |   |
| DATE COMPLETED<br>JULY 2 /85                       |   |
| DIP TESTS  |   |
| COMMENTS<br>STILL HAVING PROBLEMS WEARING OUT BITS | LEGEND  |

| DEPTH (m)   | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION  | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ | % $\frac{Fe}{Al}$ |
|-------------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|------------|-------------------|
|             |            |           |           |   | A          | B | C | D | E |                    |            |                   |
|             |            |           |           | CASING  |            |   |   |   |   |                    |            |                   |
| 3.66        | 80         |           |           | A7 w/ Ba Bands (narrow veinlet stockwork)<br>- porosity up to 15%<br>- brecciated   |            |   |   |   |   | 2                  |            | 5%                |
| 4.88 - 5.18 | 90         |           |           | - greenish yellow limonite along fractures<br>- in filling open spaces<br>- preferred fracture at 45° + BP to core  |            |   |   |   |   | 3                  |            |                   |
| 6.10        | 85         |           |           |   |            |   |   |   |   |                    |            |                   |
| 7.62        | 85         |           |           |   |            |   |   |   |   |                    |            |                   |
| 9.14        | 90         |           |           | * V6 w/ Bands<br>BOTTOM OF SURFACE OXIDATION  |            |   |   |   |   |                    |            |                   |
| 10.82       | 95         |           |           | A7-A2 - alteration front at 30° to core<br>- coarse brecciated Barite veining<br>- porosity to 5%<br>- core is fractured & remnants of Ba have recharged rock |            |   |   |   |   | 2                  |            | 3%                |
| 12.35       | 100        |           |           |   |            |   |   |   |   |                    |            |                   |
| 13.87       | 100        |           |           | Gouge   |            |   |   |   |   |                    |            |                   |
| 15.55       | 100        |           |           | A2 - distinct yellow plumbago (bleached & clayed)<br>- low porosity   |            |   |   |   |   | 2                  |            |                   |
| 17.07       | 100        |           |           |   |            |   |   |   |   |                    |            |                   |
| 18.75       | 100        |           |           |   |            |   |   |   |   |                    |            |                   |
| 20.70       | 95         |           |           | clay gouge  |            |   |   |   |   |                    |            |                   |
| 21.95       | 100        |           |           |   |            |   |   |   |   |                    |            |                   |
|             |            |           |           | A7 - porosity 2-3%  |            |   |   |   |   | 3                  |            | 1-2%              |





| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION  | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ. | Barite % |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|----------|
|           |            |           |           |   | A          | B | C | D | E |                    |             |          |
|           |            |           |           | A <sub>2</sub>  |            |   |   |   |   |                    |             |          |
| 25.0      | 90         |           |           | A <sub>1</sub> / A <sub>2</sub> (dominantly A <sub>2</sub> )<br>- porosity up to 3%<br>- some ka bars                           |            |   |   |   |   | 3                  |             | 10%      |
| 26.52     | 100        |           |           | Gouge / gumbo<br>A <sub>2</sub> dominantly - Some frags of A <sub>1</sub> w/<br>Ba vein<br>- low porosity                       |            |   |   |   |   |                    |             |          |
| 28.05     | 100        |           |           | A <sub>2</sub> - bleached feldspar<br>2 1/2" wide Ba vein<br>+ 5% to core axis  |            |   |   |   |   |                    |             |          |
| 29.57     | 100        |           |           | Gumbo at top<br>of core AMS<br>hi. py content<br>A <sub>2</sub> / A <sub>8</sub> - Bleached feldspar<br>- minor propylitization |            |   |   |   |   | 2                  |             | 1%       |
| 31.09     | 95         |           |           | - core is heavy - maybe abundant f. g. BA<br>A <sub>2</sub>   |            |   |   |   |   |                    |             |          |
| 32.62     | 95         |           |           | - Low porosity  |            |   |   |   |   | 2                  |             |          |
| 34.1A     | 100        |           |           | Clay Gumbo<br>40° to core axis  |            |   |   |   |   |                    |             |          |
| 35.67     | 85         |           |           | A <sub>2</sub> - minor A <sub>2</sub> - Porosity - 3% - 5%<br>- very hi py content  |            |   |   |   |   | 3                  |             | FR to 2% |
| 36.53     | 85         |           |           | 1 - shattered core<br>- minor clayed feldspar<br>- radiating Xstals of Ba in 'veins'  |            |   |   |   |   |                    |             |          |
| 40.24     |            |           |           |   |            |   |   |   |   |                    |             |          |
| 41.77     | 95         |           |           | A <sub>2</sub> / A <sub>7</sub> - low porosity + 3% porous<br>- patches of A <sub>7</sub><br>- porphyritic, clayed feldspar     |            |   |   |   |   |                    |             | FR to 1% |
| 43.29     | 90         |           |           |   |            |   |   |   |   |                    |             |          |
| 44.82     | 98         |           |           | Gumbo<br>A <sub>2</sub> - Bleached except for hi py content   |            |   |   |   |   |                    |             |          |
|           | 75         |           |           | Gumbo   |            |   |   |   |   |                    |             |          |

| MINERALIZATION DESCRIPTION              | TOTAL SULPHIDE | SAMPLES |       |       | SAMPLE NUMBER | Au g/t | ASSAYS |  |  |
|---|----------------|---------|-------|-------|---------------|--------|--------|--|--|
|   |                | FROM    | TO    | WIDTH |               |        |        |  |  |
|   |                | 23.47   | 24.47 | 1.0   | 15383         | 0.10   |        |  |  |
|   | 3%             | 24.47   | 25.47 | 1.0   | 15384         | 0.55   |        |  |  |
|   |                | 25.47   | 26.47 | 1.0   | 15385         | 0.65   |        |  |  |
|   |                | 26.47   | 27.47 | 1.0   | 15386         | 0.40   |        |  |  |
| pyritized Qtz kern →                    | 2%             | 27.60   | 28.05 | AS    | 15387         | 4.05   |        |  |  |
|   | 2%             |         |       |       |               |        |        |  |  |
|   |                | 30.00   | 31.00 | 1.0   | 15388         | 4.05   |        |  |  |
|   | 1%             |         |       |       |               |        |        |  |  |
|   |                |         |       |       |               |        |        |  |  |
| very hi py content                      | 4%             | 35.00   | 36.00 |       | 15389         | 0.40   |        |  |  |
|   |                | 36.00   | 37.00 |       | 15390         | 0.55   |        |  |  |
|   | 7%             | 37.00   | 38.00 |       | 15392         | 0.40   |        |  |  |
|   |                | 38.00   | 39.00 |       | 15393         | 0.55   |        |  |  |
| Barite in open spaces - py - Silicified |                | 39.00   | 40.00 |       | 15394         | 1.60   |        |  |  |
|   |                | 40.00   | 41.00 |       | 15395         | 0.40   |        |  |  |
|   |                | 41.00   | 42.00 |       | 15396         | 4.05   |        |  |  |
|   |                | 42.00   | 43.00 |       | 15397         | 0.25   |        |  |  |
|   |                |         |       |       |               |        |        |  |  |
|   |                |         |       |       |               |        |        |  |  |
| - very hi py content                    | 7%             |         |       |       |               |        |        |  |  |
|   |                | 43.00   | 44.00 |       | 15398         | 0.40   |        |  |  |
|   |                | 44.00   | 45.00 |       | 15399         | 4.05   |        |  |  |
|   |                | 45.00   | 46.00 |       | 15400         | 0.15   |        |  |  |

NOB 15391  
dumped sample  
from



| MINERALIZATION DESCRIPTION   | TOTAL SULPHIDE | SAMPLES |       |       | SAMPLE NUMBER | ASSAYS |       |      |
|--|----------------|---------|-------|-------|---------------|--------|-------|------|
|  |                | FROM    | TO    | WIDTH |               | AU     | NEW # | A    |
| - Very fine py - almost 'massive' at times                             | 50%            | 46.00   | 47.00 | 1.0   | 13501         | 0.55   | 0.67  | 0.61 |
|  |                | 47.00   | 48.00 | 1.0   | 13502         | 0.80   | 1.0   | 0.9  |
|  |                | 48.00   | 49.00 | 1.0   | 13503         | 0.55   | 0.33  | 0.44 |
|  |                | 49.00   | 50.00 | 1.0   | 13504         | 0.15   | 0.27  | 0.21 |
|  |                | 50.00   | 51.00 | 1.0   | 13505         | 1.05   | 1.27  | 1.16 |
|  |                | 51.00   | 52.00 | 1.0   | 13506         | 1.35   | 1.47  | 1.41 |
|  |                | 52.00   | 53.00 | 1.0   | 13507         | 1.75   | 1.75  | 1.74 |
|  |                | 53.00   | 54.00 | 1.0   | 13508         | 1.20   | 1.33  | 1.27 |
|  |                | 54.00   | 55.00 | 1.0   | 13509         | 0.15   | 0.27  | 0.21 |
|  |                | 55.00   | 56.00 | 1.0   | 13510         | 0.05   | 0.13  | 0.09 |
|  |                | 56.00   | 57.00 | 1.0   | 13511         | 0.25   | 0.20  | 0.23 |
|  |                | 57.00   | 58.00 | 1.0   | 13512         | 3.60   | 1.40  | 2.50 |
|  |                | 58.00   | 59.00 | 1.0   | 13513         | 2.40   | 2.47  | 2.44 |
|  |                | 59.00   | 60.00 | 1.0   | 13514         | 0.95   | 1.13  | 1.04 |
|  |                | 60.00   | 61.00 | 1.0   | 13515         | 1.75   | 1.07  | 1.41 |
|  | 61.00          | 62.00   | 1.0   | 13516 | 1.60          | 1.87   | 1.74  |      |
|  | 62.00          | 63.00   | 1.0   | 13517 | 1.60          | 1.53   | 1.57  |      |
|  | 63.00          | 63.67   | 0.67  | 13518 | 1.20          | 1.20   | 1.20  |      |
|  | 63.67          | 64.33   | 0.66  | 13519 | 0.55          |        |       |      |
|  | 64.33          | 65.33   | 1.0   | 13520 | 0.40          |        |       |      |
|  | 65.33          | 66.14   | 0.81  | 13521 | 0.15          |        |       |      |
|  | 66.14          | 66.95   | 0.81  | 13522 | 0.65          |        |       |      |
| Py content diminishes below this point<br>- Gypsum veins, 2mm-1cm wide |                |         |       |       |               |        |       |      |

1.47  
1.34g  
1.3

13.67m  
1.60g



| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION  | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|------------|
|           |            |           |           |   | A          | B | C | D | E |                    |            |
| 98        |            |           |           | A <sub>2</sub> / A <sub>3</sub> - porph textures very visible |            |   |   |   |   |                    |            |
| 70.73     |            |           |           |   |            |   |   |   |   |                    |            |
| 72.25     |            |           |           | ← END OF HOLE 72.25 m   |            |   |   |   |   |                    |            |
| 72.71     |            |           |           |   |            |   |   |   |   |                    |            |
| 72.74     |            |           |           |   |            |   |   |   |   |                    |            |
| 73.22     |            |           |           |   |            |   |   |   |   |                    |            |

?  
72.71  
72.74  
73.22





**DRILL LOG**

|  |   |
|--|---|
| PROJECT<br>AL - THESIS III   | GROUND ELEV.<br>1656.14 m   |
| HOLE NO.<br>A-85-11  | BEARING<br><del>330</del> 232.5°  |
| LOCATION<br>west zone  | DIP<br>-45°   |
|  | TOTAL LENGTH<br>49.39 m (162')  |
| LOGGED BY<br>L ECCLES  | HORIZONTAL PROJECT  |
| DATE<br>JULY 8/85  | VERTICAL PROJECT  |
| CONTRACTOR<br>J.T. THOMAS DIAMOND DRILLING                           | <p style="text-align: center;"><b>ALTERATION SCALE</b></p>  <p>0 1 2 3<br/>absent<br/>slight<br/>moderate<br/>intense</p>                           |
| CORE SIZE<br>H Q   | <p style="text-align: center;"><b>TOTAL SULPHIDE SCALE</b></p>  <p>0 1 2 3 4<br/>traces only<br/>&lt; 1%<br/>1% - 3%<br/>3% - 10%<br/>&gt; 10%</p> |
| DATE STARTED<br>JULY 7/85  |   |
| DATE COMPLETED   |   |
| DIP TESTS  |   |
| COMMENTS<br>Hole is badly broken up in upper sections - hard on bits | LEGEND  |





| MINERALIZATION DESCRIPTION                | TOTAL SULPHIDE   | SAMPLES |       |       | SAMPLE NUMBER                  | ASSAYS    |      |      |                    |
|---|------------------|---------|-------|-------|--------------------------------|-----------|------|------|--------------------|
|   |                  | FROM    | TO    | WIDTH |                                | AV<br>g/t |      |      |                    |
|   |                  |         |       |       |                                |           |      |      |                    |
|   |                  |         |       |       | Dummy Sample<br>Golden Furlong |           |      |      |                    |
|   |                  |         |       |       | 13647                          |           |      |      |                    |
| mostly oxidized →<br>but some fresh zones | 1.9%<br>3%<br>1% | 3.66    | 7.01  | 3.35  | 13648                          | 0.80      | 0.87 | 0.84 |                    |
|   |                  |         |       |       |                                |           |      |      |                    |
|   |                  | 7.01    | 8.53  | 1.52  | 13649                          | 1.05      | 1.00 | 1.03 |                    |
|   |                  |         |       |       |                                |           |      |      |                    |
|   |                  | 8.53    | 9.53  | 1.0   | 13650                          | 1.45      | 1.40 | 1.43 | 3.52m<br>1.39g     |
|   |                  | 9.53    | 10.53 | 1.0   | 13651                          | 1.85      | 1.55 | 1.69 |                    |
|   |                  | 10.53   | 11.53 | 1.0   | 13652                          | 3.85      | 3.47 | 3.66 | 10.67m<br>1.86 g/t |
|   |                  | 11.53   | 12.53 | 1.0   | 13653                          | 2.00      | 2.13 | 2.07 |                    |
|   |                  | 12.53   | 13.53 | 1.0   | 13654                          | 1.35      | 1.60 | 1.48 |                    |
|   |                  | 13.53   | 14.53 | 1.0   | 13655                          | 2.95      | 3.07 | 3.01 |                    |
|   |                  | 14.53   | 15.53 | 1.0   | 13656                          | 2.00      | 2.07 | 2.04 |                    |
|   |                  | 15.53   | 16.53 | 1.0   | 13657                          | 1.45      | 1.27 | 1.36 |                    |
|   |                  | 16.53   | 17.53 | 1.0   | 13658                          | 1.20      | 1.15 | 1.17 |                    |
|   |                  | 17.68   | 18.68 | 1.0   | 13659                          | 0.15      | 0.13 | 0.14 |                    |
|   | 1%               | 18.68   | 19.21 | 0.53  | 13660                          | 0.55      | 0.60 | 0.58 |                    |
|   |                  |         |       |       |                                |           |      |      |                    |
|   |                  | 20.95   | 21.95 | 1.22  | 13661                          | 3.85      | 3.00 | 3.45 |                    |
|   | 3%               |         |       |       |                                |           |      |      |                    |
|   |                  | 21.95   | 22.95 | 1.0   | 13662                          | 2.05      |      |      |                    |
|   |                  |         |       |       |                                |           |      |      |                    |
|   |                  | 22.95   | 23.95 | 1.0   | 13663                          | 0.15      |      |      |                    |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION   | ALTERATION |   |   |   |   | FRACTURE INTENSITY | % VEIN QTZ. | VCL %      |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|------------|
|           |            |           |           |  | A          | B | C | D | E |                    |             |            |
| 24.69     | 100        |           |           | <p>Fault gorge</p> <p>A2/A3 - Greenish, clay - propylitic altered, porphyritic andesite to diabase</p> |            |   |   |   |   | 2                  |             |            |
| 26.72     | 95         |           |           | <p>almost omphacitic A2/A7 - low porosity</p>  |            |   |   |   |   | 2                  |             | 14%<br>15% |
| 27.74     | 95         |           |           | <p>A7 - porosity up to 3 1/2%<br/>- cracked + brecciated<br/>- used lots of heavy mud</p>              |            |   |   |   |   | 3                  |             | 30%        |
| 29.27     | 40         |           |           |  |            |   |   |   |   | 3                  |             |            |
| 30.77     | 90         |           |           |  |            |   |   |   |   | 3                  |             |            |
| 32.12     | 40         |           |           |  |            |   |   |   |   | 3                  |             |            |
| 32.92     | 60         |           |           |  |            |   |   |   |   | 3                  |             |            |
| 34.45     | 90         |           |           | <p>x frag of frank<br/>+ chert +<br/>Amethystine(?)<br/>qtz</p>  |            |   |   |   |   | 3                  |             |            |
| 35.06     | 0          |           |           |  |            |   |   |   |   | 3                  |             | 4%         |
| 36.89     | 100        |           |           |  |            |   |   |   |   | 3                  |             |            |
| 37.19     | 90         |           |           | <p>Badly Broken<br/>Ground<br/>- fault -<br/>+ white Pb vein<br/>massive, at 75%<br/>core</p>          |            |   |   |   |   | 3                  |             |            |
| 38.72     | 90         |           |           |  |            |   |   |   |   | 3                  |             |            |
| 40.24     | 100        |           |           | <p>mucky<br/>A2 - Bleached feldspar porph - feldspar<br/>totally obliterated by pervasive clayey</p>   |            |   |   |   |   | 3                  |             |            |
| 41.77     | 100        |           |           |  |            |   |   |   |   | 3                  |             |            |
| 43.29     | 100        |           |           |  |            |   |   |   |   | 3                  |             |            |
| 44.81     | 100        |           |           | <p>Second narrow<br/>Pb vein</p> <p>Gumbo - fault</p>  |            |   |   |   |   | 3                  |             |            |

| MINERALIZATION DESCRIPTION   | TOTAL SULPHIDE | SAMPLES |       |       | SAMPLE NUMBER | ASSAYS |      |   |      |
|--|----------------|---------|-------|-------|---------------|--------|------|---|------|
|  |                | FROM    | TO    | WIDTH |               | AV g/t |      |   |      |
|  | 6% Py          | 23.95   | 24.95 | 1.0   | 13664         | 40.05  |      |   |      |
|  | 2% Py          | 24.95   | 25.95 | 1.0   | 13665         | 40.05  |      |   |      |
|  | 1%             | 25.95   | 26.95 | 1.0   | 13666         | 40.05  |      |   |      |
|  | 5% Py          | 26.95   | 27.95 | 1.0   | 13667         | 40.05  |      |   |      |
|  |                | 27.95   | 28.95 | 1.0   | 13668         | 0.80   | 1.00 | 0 | 0.90 |
|  | 5%             | 28.95   | 29.95 | 1.0   | 13669         | 0.65   | 0.53 |   | 0.59 |
|  |                | 29.95   | 30.95 | 1.0   | 13670         | 1.35   | 1.47 |   | 1.41 |
|  |                | 30.95   | 31.95 | 1.0   | 13671         | 1.60   | 1.47 |   | 1.54 |
|  |                | 31.95   | 32.95 | 1.0   | 13672         | 1.35   | 1.47 |   | 1.41 |
|  |                | 32.95   | 33.95 | 1.0   | 13673         | 0.80   | 1.07 |   | 0.94 |
|  |                | 33.95   | 34.95 | 1.0   | 13674         | 1.60   | 0.80 |   | 6.20 |
|  |                | 34.95   | 35.95 | 1.0   | 13675         | 2.55   | 2.27 |   | 2.41 |
|  |                | 35.95   | 36.95 | 1.0   | 13676         | 3.45   | 3.33 |   | 3.39 |
| ePy + possibly other Cu sulfides as well as Py. Bar is common as small bladed xstals in open space | 6%             | 36.95   | 37.95 | 1.0   | 13677         | 4.40   | 4.07 |   | 4.24 |
|  |                | 37.95   | 38.95 | 1.0   | 13678         | 2.55   | 2.40 |   | 2.48 |
|  |                | 38.95   | 39.95 | 1.0   | 13679         | 1.05   | 1.03 |   | 1.04 |
|  |                | 39.95   | 40.76 | 0.81  | 13680         | 0.95   | 1.20 |   |      |
|  |                | 40.76   | 41.76 | 1.0   | 13681         | 0.15   |      |   |      |
|  | 2%             | 41.76   | 42.76 | 1.0   | 13682         | <0.05  |      |   |      |
|  |                | 42.76   | 43.76 | 1.0   | 13683         | <0.05  |      |   |      |
|  |                | 43.76   | 44.76 | 1.0   | 13684         | 0.05   |      |   |      |
|  |                | 44.76   | 45.76 | 1.0   | 13685         | 0.15   |      |   |      |
|  |                | 45.76   | 46.34 | 0.58  | 13686         | <0.05  |      |   |      |







**Apendix 4**  
**Analytical Procedures**



ASSAY PROCEDURES

Sample preparation

Rocks: sample is crushed, riffled to give approximately 250g, ring pulverized to approximately -100 mesh.

Soils: sample is dried then sieved through -80 mesh screen.

Analytical procedures

Assay:

Au,Ag - fire assay, gravimetric finish on 20g sample.

Cu,Pb,Zn - a 1.00g sample is digested in 10 ml nitric acid and 25 ml hydrochloric acid for about one hour and then taken to dryness. It is taken up in 25 ml hydrochloric acid, bulked to 100 ml with distilled water, then presented to the AA.

Geochem:

Au - a 15g sample is inquarted and fire assayed. The prill is parted in a test tube with 0.5 ml nitric acid. The gold is taken into solution with the addition of 1.5 ml hydrochloric acid. Sample is bulked to 5.0 ml with distilled water, then presented to AA.

Ag,Cu,Pb,Zn - a 0.5g sample is ashed then transferred to a test tube. Sample is digested with 1.0 ml nitric acid and 2.0 ml hydrochloric acid in a hot water bath for two hours. Sample is bulked to 10.0 ml with distilled water and presented to AA.

.125.

**Appendix 5**

**Analysis and Assay Certificates**

**GEOCHEMICAL REPORT**

TO: **Energex Minerals Ltd.**  
 #703 - 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-92

DATE: July 18, 1985

ATTENTION: **B. Price**

PROJECT: A1 (36)

| Sample Description | Ag ppm |
|--------------------|--------|
| 15287              | 1.3    |
| 15288              | .6     |
| 15289              | .3     |
| 15290              | .4     |
| 15291              | .3     |
| 15292              | .4     |
| 15293              | .2     |
| 15294              | .2     |
| 15295              | .4     |
| 15296              | .3     |
| 15297              | .4     |
| 15298              | .7     |
| 15299              | 2.3    |
| 15300              | 1.5    |
| 15301              | 1.2    |
| 15302              | 1.1    |
| 15303              | 2.0    |
| 15304              | 5.2    |
| 15305              | 2.8    |
| 15306              | 2.2    |
| 15307              | 2.4    |
| 15308              | 1.0    |
| 15309              | 1.1    |
| 15310              | 1.4    |
| 15311              | 1.4    |
| 15312              | 1.5    |
| 15313              | 1.7    |
| 15314              | 1.2    |
| 15315              | 2.8    |
| 15316              | 2.2    |
| 15317              | 1.6    |
| 15318              | 1.3    |
| 15319              | 1.0    |
| 15320              | 1.4    |
| 15321              | 1.0    |
| 15322              | 2.3    |
| 15323              | 1.5    |
| 15324              | .6     |
| 15325              | 1.6    |
| 15326              | .9     |

#A3

#A4

*Duncan Sanderson*.....

**ASSAY REPORT**

TO: **Energex Minerals Ltd.**  
 #703 - 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-92A

DATE: July 18, 1985

ATTENTION: **B. Price**

PROJECT: A1 (36)

| Sample Description | Au g/tonne |         |
|--------------------|------------|---------|
| 15287              | 3.80       |         |
| 15288              | 0.80       |         |
| 15289              | 0.50       |         |
| 15290              | 0.60       |         |
| 15291              | <0.05      | # A3    |
| 15292              | <0.05      |         |
| 15293              | 0.20       |         |
| 15294              | 0.10       |         |
| 15295              | 0.50       |         |
| 15296              | 0.30       |         |
| 15297              | 0.30       |         |
| 15298              | 0.60       |         |
| 15299              | 0.80       |         |
| 15300              | 8.20       |         |
| 15301              | 11.60      |         |
| 15302              | 4.00       |         |
| 15303              | 7.40       |         |
| 15304              | 9.60       |         |
| 15305              | 4.60       |         |
| 15306              | 4.30       |         |
| 15307              | 6.20       |         |
| 15308              | 2.50       |         |
| 15309              | 2.00       |         |
| 15310              | 2.90       |         |
| 15311              | 3.40       |         |
| 15312              | 2.10       |         |
| 15313              | 2.20       |         |
| 15314              | 2.80       | Reassay |
| 15315              | 42.90      | 42.50   |
| 15316              | 7.50       |         |
| 15317              | 2.60       | # A4    |
| 15318              | 1.60       |         |
| 15319              | 1.60       |         |
| 15320              | 1.80       |         |
| 15321              | <0.05      |         |
| 15322              | 0.10       |         |
| 15323              | 0.60       |         |
| 15324              | 0.20       |         |
| 15325              | 1.10       |         |
| 15326              | 1.20       |         |

Rejects retained one month,  
 pulps one year, unless  
 specific arrangements made.

*Duncan Sanderson*.....  
 Certified Assayer of British Columbia

**GEOCHEMICAL REPORT**

| Sample Description | Ag ppm |
|--------------------|--------|
| 15327              | .6     |
| 15328              | 2.2    |
| 15329              | 1.8    |
| 15330              | 2.2    |
| 15331              | .2     |
| 15332              | .3     |
| 15333              | .3     |
| 15334              | .3     |
| 15335              | .7     |
| 15336              | .5     |
| 15337              | .7     |
| 15338              | 2.4    |
| 15339              | 2.8    |
| 15340              | 1.9    |
| 15341              | 1.8    |
| 15342              | .5     |
| 15343              | .4     |
| 15344              | .4     |
| 15345              | .5     |
| 15346              | .4     |
| 15347              | .5     |
| 15348              | .4     |
| 15349              | .5     |
| 15350              | .4     |
| 15351              | .5     |
| 15352              | .6     |
| 15353              | 1.2    |
| 15354              | 1.6    |
| 15355              | 1.1    |
| 15356              | .5     |
| 15357              | 1.1    |
| 15358              | .5     |
| 15359              | .2     |

#A4

#A5

Ag results are geochemical determinations  
 (aqua regia digestion, AA).

*Doreen Sanderson*

**ASSAY REPORT**

| Sample Description | Au g/tonne |
|--------------------|------------|
| 15327              | 0.20       |
| 15328              | 1.20       |
| 15329              | 0.90       |
| 15330              | 0.20       |
| 15331              | <0.05      |
| 15332              | <0.05      |
| 15333              | <0.05      |
| 15334              | <0.05      |
| 15335              | 0.10       |
| 15336              | 0.40       |
| 15337              | 0.80       |
| 15338              | 2.50       |
| 15339              | 3.20       |
| 15340              | 2.50       |
| 15341              | 1.90       |
| 15342              | 0.30       |
| 15343              | <0.05      |
| 15344              | 0.30       |
| 15345              | 0.30       |
| 15346              | <0.05      |
| 15347              | 0.20       |
| 15348              | 0.10       |
| 15349              | <0.05      |
| 15350              | <0.05      |
| 15351              | <0.05      |
| 15352              | <0.05      |
| 15353              | 0.90       |
| 15354              | 1.40       |
| 15355              | 1.20       |
| 15356              | 0.30       |
| 15357              | <0.05      |
| 15358              | <0.05      |
| 15359              | 0.30       |

#A4

#A5

Au results are assays  
 (fire assay, gravimetric finish).

*Duncan Sandness*  
 Certified Assayer of British Columbia

**GEOCHEMICAL REPORT**

TO: **Energex Minerals Ltd.**  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-95

DATE: July 22, 1985

ATTENTION: **B. Price** cc. **A.O. Birkland**

PROJECT: A1 (36)

| Sample Description | Ag ppm |
|--------------------|--------|
| 15360              | .6     |
| 15361              | 1.7    |
| 15362              | .2     |
| 15363              | .3     |
| 15364              | .8     |
| 15365              | .4     |
| 15366              | .6     |
| 15367              | 1.7    |
| 15368              | 1.4    |
| 15369              | 2.4    |
| 15370              | 1.1    |
| 15371              | .6     |
| 15372              | .5     |
| 15373              | 1.0    |
| 15374              | .6     |
| 15375              | .4     |
| 15376              | .2     |
| 15377              | .4     |
| 15378              | .3     |
| 15379              | .2     |
| 15380              | .6     |
| 15381              | .6     |
| 15382              | 2.9    |
| 15383              | .6     |
| 15384              | .8     |
| 15385              | 3.4    |
| 15386              | 2.4    |
| 15387              | .5     |
| 15388              | .5     |

#A6

Results on this page are geochemical determinations:  
 Ag: aqua regia digestion, AA.

.....*Dennis M. Sanderson*.....

**ASSAY REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-95A

DATE: July 22, 1985

ATTENTION: B. Price cc. A.O. Birkland

PROJECT: A1 (36)

| Sample Description | Au g/tonne |
|--------------------|------------|
| 15360              | 0.40 ✓     |
| 15361              | 0.25 ✓     |
| 15362              | 1.75 ✓     |
| 15363              | 0.80 ✓     |
| 15364              | 4.40 ✓     |
| 15365              | 1.05 ✓     |
| 15366              | 0.80 ✓     |
| 15367              | 3.35 ✓     |
| 15368              | 2.80 ✓     |
| 15369              | 2.95 ✓     |
| 15370              | 1.20 ✓     |
| 15371              | 0.40 ✓     |
| 15372              | 0.40 ✓     |
| 15373              | 0.80 ✓     |
| 15374              | 0.25 ✓     |
| 15375              | 0.25 ✓     |
| 15376              | 0.10 ✓     |
| 15377              | 0.10 ✓     |
| 15378              | 0.10 ✓     |
| 15379              | <0.05 ✓    |
| 15380              | 0.40 ✓     |
| 15381              | 0.95 ✓     |
| 15382              | 0.10 ✓     |
| 15383              | 0.10 ✓     |
| 15384              | 0.55 ✓     |
| 15385              | 0.65 ✓     |
| 15386              | 0.40 ✓     |
| 15387              | <0.05 ✓    |
| 15388              | <0.05 ✓    |

#A6

Results on this page are assays:  
 Au: fire assay, gravimetric finish.

Rejects retained one month,  
 pulps one year, unless  
 specific arrangements made.

.....*David W. Sanderson*.....  
 Certified Assayer of British Columbia



**ASSAY REPORT**

| Sample Description | Au g/tonne |
|--------------------|------------|
| 15215              | 0.25       |
| 15216              | 0.25       |
| 15217              | 0.95       |
| 15218              | 0.25       |
| 15219              | 0.15       |
| 15220              | 0.15       |
| 15221              | 0.15       |
| 15222              | 0.25       |
| 15223              | <0.05      |
| 15224              | <0.05      |
| 15225              | 0.40       |
| 15226              | 0.20       |
| 15227              | 0.25       |
| 15228              | 0.25       |
| 15229              | 0.40       |
| 15230              | 0.55       |
| 15231              | 0.55       |
| 15232              | 1.05       |
| 15233              | 0.80       |
| 15234              | 0.65       |
| 15235              | 0.80       |
| 15236              | 0.15       |
| 15237              | 0.65       |
| 15238              | 0.65       |
| 15239              | 1.05       |
| 15240              | 0.80       |
| 15241              | 0.95       |
| 15242              | 0.40       |
| 15243              | 0.25       |
| 15244              | 0.10       |
| 15245              | 1.05       |
| 15246              | 1.45       |
| 15247              | 0.80       |
| 15248              | 2.25       |
| 15249              | 18.15      |
| 15250              | 18.00      |
| 15251              | 7.45       |
| 15252              | 1.45       |
| 15253              | 0.40       |
| 15254              | 1.60       |
| 15255              | 1.45       |
| 15256              | 7.20       |
| 15257              | 10.94      |
| 15258              | 1.45       |
| 15259              | 1.35       |
| 15260              | 1.85       |
| 15261              | 4.95       |
| 15262              | 1.05       |
| 15263              | 4.25       |
| 15264              | 13.05      |

#A2

#A3

*Dwaine Sanderson*  
 Certified Assayer of British Columbia

**ASSAY REPORT**

| Sample Description | Au<br>g/tonne |         |
|--------------------|---------------|---------|
| 15265              | 25.60         |         |
| 15266              | 2.80          | Reassay |
| 15267              | 189.0         | 175.8   |
| 15268              | 1.75          |         |
| 15269              | 1.20          |         |
| 15270              | 6.55          |         |
| 15271              | 5.85          |         |
| 15272              | 2.95          |         |
| 15273              | 1.35          |         |
| 15274              | 1.05          |         |
| 15275              | 1.35          |         |
| 15276              | 1.75          |         |
| 15277              | 1.20          |         |
| 15278              | 1.35          |         |
| 15279              | 1.05          |         |
| 15280              | 1.85          |         |
| 15281              | 0.65          |         |
| 15282              | 0.55          |         |
| 15283              | 0.25          |         |
| 15284              | 0.25          |         |
| 15285              | 0.55          |         |
| 15286              | 0.80          |         |

#A3

Results of file 85-96A are assays:  
Au: fire assay, gravimetric finish.

...*Diana M. Sanderson*.....  
Certified Assayer of British Columbia

**GEOCHEMICAL REPORT**

| Sample Description | Ag ppm |
|--------------------|--------|
| 15215              | .1     |
| 15216              | .1     |
| 15217              | .7     |
| 15218              | .8     |
| 15219              | .2     |
| 15220              | .2     |
| 15221              | .2     |
| 15222              | .6     |
| 15223              | .3     |
| 15224              | .4     |
| 15225              | .3     |
| 15226              | .5     |
| 15227              | 1.3    |
| 15228              | .7     |
| 15229              | 1.2    |
| 15230              | 1.2    |
| 15231              | .7     |
| 15232              | .8     |
| 15233              | .4     |
| 15234              | .8     |
| 15235              | .6     |
| 15236              | .5     |
| 15237              | .5     |
| 15238              | .2     |
| 15239              | .5     |
| 15240              | .2     |
| 15241              | .2     |
| 15242              | .3     |
| 15243              | .3     |
| 15244              | .7     |
| 15245              | .9     |
| 15246              | .4     |
| 15247              | .3     |
| 15248              | .5     |
| 15249              | 2.8    |
| 15250              | 1.1    |
| 15251              | 2.9    |
| 15252              | 1.1    |
| 15253              | .4     |
| 15254              | .7     |
| 15255              | 1.3    |
| 15256              | 2.8    |
| 15257              | 2.0    |
| 15258              | 1.5    |
| 15259              | 2.7    |
| 15260              | 1.4    |
| 15261              | 2.0    |
| 15262              | 2.8    |
| 15263              | 3.2    |
| 15264              | 1.6    |

#A2

#A3

...*[Signature]*...

**GEOCHEMICAL REPORT**

| Sample Description | Ag ppm |
|--------------------|--------|
| 15265              | 6.2    |
| 15266              | .8     |
| 15267              | 15.6   |
| 15268              | 1.1    |
| 15269              | .9     |
| 15270              | 4.9    |
| 15271              | 7.3    |
| 15272              | 6.5    |
| 15273              | 3.6    |
| 15274              | 1.4    |
| 15275              | .5     |
| 15276              | .9     |
| 15277              | 1.1    |
| 15278              | .8     |
| 15279              | .8     |
| 15280              | .9     |
| 15281              | .1     |
| 15282              | .1     |
| 15283              | .1     |
| 15284              | .3     |
| 15285              | .2     |
| 15286              | .4     |

#A3

Results of file 85-96 are geochemical determinations:  
Ag: aqua regia digestion, AA.

*...Dunn n... Sanderson.....*

**GEOCHEMICAL REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-99

DATE: July 22, 1985

ATTENTION: B. Price cc. A.O. Birkland

PROJECT: A1 (36)

| Sample Description | Ag ppm |
|--------------------|--------|
| 13501              | 1.7    |
| 13502              | .4     |
| 13503              | .6     |
| 13504              | .3     |
| 13505              | .9     |
| 13506              | 2.0    |
| 13507              | 2.9    |
| 13508              | 2.1    |
| 13509              | .3     |
| 13510              | .2     |
| 13511              | .4     |
| 13512              | 2.0    |
| 13513              | 2.9    |
| 13514              | .6     |
| 13515              | .6     |
| 13516              | 2.7    |
| 13517              | 2.6    |
| 13518              | 1.7    |
| 13519              | 1.1    |
| 13520              | 1.2    |
| 13521              | 2.3    |
| 13522              | 1.9    |
| 13523              | .8     |
| 13524              | .5     |
| 13525              | .7     |
| 13526              | 1.1    |
| 13527              | 1.2    |
| 13528              | 1.2    |
| 13529              | .9     |
| 13530              | .7     |
| 13531              | .2     |
| 13532              | .5     |
| 13533              | .3     |
| 13534              | .1     |
| 13535              | 1.1    |
| 13536              | 1.7    |
| 13537              | .5     |
| 13538              | .4     |
| 13539              | .4     |
| 13540              | .6     |

#A6

#A7

*Duncan Sanderson*

**GEOCHEMICAL REPORT**

| Sample Description | Ag ppm |
|--------------------|--------|
| 13541              | .3     |
| 13542              | .7     |
| 13543              | 1.4    |
| 13544              | 1.6    |
| 13545              | 2.8    |
| 13546              | 1.3    |
| 15389              | .2     |
| 15390              | .7     |
| 15391              | .1     |
| 15392              | .6     |
| 15393              | .5     |
| 15394              | 1.6    |
| 15395              | .6     |
| 15396              | .3     |
| 15397              | .2     |
| 15398              | .3     |
| 15399              | .6     |
| 15400              | .8     |

Results of file 85-99 are geochemical determinations:  
Ag: aqua regia digestion, AA.

.....*D. Sanderson*.....

**ASSAY REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-99A

DATE: July 22, 1985

ATTENTION: B. Price cc. A.O. Birkland

PROJECT: A1 (36)

| Sample Description | Au g/tonne |
|--------------------|------------|
| 13501              | 0.55       |
| 13502              | 0.80       |
| 13503              | 0.55       |
| 13504              | 0.15       |
| 13505              | 1.05       |
| 13506              | 1.35       |
| 13507              | 1.75       |
| 13508              | 1.20       |
| 13509              | 0.15       |
| 13510              | <0.05      |
| 13511              | 0.25       |
| 13512              | 3.60       |
| 13513              | 2.40       |
| 13514              | 0.95       |
| 13515              | 1.75       |
| 13516              | 1.60       |
| 13517              | 1.60       |
| 13518              | 1.20       |
| 13519              | 0.55       |
| 13520              | 0.40       |
| 13521              | 0.15       |
| 13522              | 0.65       |
| 13523              | 2.80       |
| 13524              | 2.00       |
| 13525              | 1.35       |
| 13526              | 0.95       |
| 13527              | 1.35       |
| 13528              | 0.55       |
| 13529              | 0.65       |
| 13530              | 1.60       |
| 13531              | 0.40       |
| 13532              | 1.05       |
| 13533              | <0.05      |
| 13534              | 0.15       |
| 13535              | 2.25       |
| 13536              | 3.35       |
| 13537              | 0.55       |
| 13538              | 0.95       |
| 13539              | 0.80       |
| 13540              | 1.60       |

#A6

#A7

Rejects retained one month,  
 pulps one year, unless  
 specific arrangements made.

*Duncan Sanderson*  
 Certified Assayer of British Columbia

**ASSAY REPORT**

| Sample Description | Au g/tonne |
|--------------------|------------|
| 13541              | 0.65       |
| 13542              | 3.75       |
| 13543              | 2.75       |
| 13544              | 6.20       |
| 13545              | 5.45       |
| 13546              | 2.55       |
| 15389              | 0.40       |
| 15390              | 0.55       |
| 15391              | 0.15       |
| 15392              | 0.40       |
| 15393              | 0.55       |
| 15394              | 1.60       |
| 15395              | 0.40       |
| 15396              | <0.05      |
| 15397              | 0.25       |
| 15398              | 0.40       |
| 15399              | <0.05      |
| 15400              | 0.15       |

Results of file 85-99A are assays:  
 Au: fire assay, gravimetric finish.

*[Signature]*  
 Certified Assayer of British Columbia



**GEOCHEMICAL REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-104

DATE: July 24, 1985

ATTENTION: B. Price cc. A.O. Birkland

PROJECT: A1 (036)

| Sample Description | Ag ppm | Ag ppm    |
|--------------------|--------|-----------|
| 13724              | 2.2    | 13764 1.7 |
| 13725              | 2.4    |           |
| 13726              | 3.5    |           |
| 13727              | 6.7    |           |
| 13728              | 4.7    |           |
| 13729              | 3.7    |           |
| 13730              | 3.0    |           |
| 13731              | 7.2    |           |
| 13732              | 2.8    |           |
| 13733              | 5.6    |           |
| 13734              | 4.1    |           |
| 13735              | 3.9    |           |
| 13736              | 1.6    |           |
| 13737              | .2     |           |
| 13738              | 7.7    |           |
| 13739              | 6.8    |           |
| 13740              | 4.0    |           |
| 13741              | 4.8    |           |
| 13742              | 4.1    |           |
| 13743              | 1.3    |           |
| 13744              | 3.2    |           |
| 13745              | 2.3    |           |
| 13746              | .4     |           |
| 13747              | 2.7    |           |
| 13748              | 2.9    |           |
| 13749              | 3.4    |           |
| 13750              | 4.3    |           |
| 13751              | .1     |           |
| 13752              | .5     |           |
| 13753              | 3.3    |           |
| 13754              | .2     |           |
| 13755              | 4.3    |           |
| 13756              | 1.6    |           |
| 13757              | 2.2    |           |
| 13758              | 1.6    |           |
| 13759              | 1.3    |           |
| 13760              | 5.7    |           |
| 13761              | 6.1    |           |
| 13762              | .8     |           |
| 13763              | 1.8    |           |

Results of 85-104 are geochemical determinations:  
 Ag: aqua regia digestion, AA.

*Duncan Sandness*.....

**ASSAY REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-104A

DATE: July 24, 1985

ATTENTION: B. Price cc. A.O. Birkland

PROJECT: A1 (036)

| Sample Description | Au g/tonne | 13764 | Au g/tonne |
|--------------------|------------|-------|------------|
| 13724              | 0.40       |       | <0.05      |
| 13725 } #A15       | 1.05       |       |            |
| 13726 } #A15       | 6.95       |       |            |
| 13727 } #A15       | 0.25       |       |            |
| 13728 } #A15       | 2.80       |       |            |
| 13729 } #A15       | 2.95       |       |            |
| 13730 } #A16       | 1.60       |       |            |
| 13731 } #A16       | 4.25       |       |            |
| 13732 } #A16       | 0.40       |       |            |
| 13733 } #A16       | <0.05      |       |            |
| 13734 } #A16       | 0.15       |       |            |
| 13735 } #A16       | 0.40       |       |            |
| 13736 } #A16       | 0.15       |       |            |
| 13737 } #A16       | 0.15       |       |            |
| 13738 } #A16       | 0.25       |       |            |
| 13739 } #A16       | 8.67       |       |            |
| 13740 } #A16       | 6.40       |       |            |
| 13741 } #A17       | 5.75       |       |            |
| 13742 } #A17       | 1.05       |       |            |
| 13743 } #A17       | 0.80       |       |            |
| 13744 } #A17       | 0.15       |       |            |
| 13745 } #A17       | 0.40       |       |            |
| 13746 } #A17       | <0.05      |       |            |
| 13747 } #A17       | 0.15       |       |            |
| 13748 } #A17       | <0.05      |       |            |
| 13749 } #A17       | 0.15       |       |            |
| 13750 } #A17       | <0.05      |       |            |
| 13751 } #A17       | <0.05      |       |            |
| 13752 } #A17       | <0.05      |       |            |
| 13753 } #A17       | <0.05      |       |            |
| 13754 } #A17       | <0.05      |       |            |
| 13755 } #A18       | 0.40       |       |            |
| 13756 } #A18       | 0.25       |       |            |
| 13757 } #A18       | 0.25       |       |            |
| 13758 } #A18       | 0.55       |       |            |
| 13759 } #A18       | 0.40       |       |            |
| 13760 } #A18       | 18.15      |       |            |
| 13761 } #A18       | 2.95       |       |            |
| 13762 } #A18       | 0.40       |       |            |
| 13763 } #A18       | 2.55       |       |            |

Results of 85-104A are assays:  
 Au: fire assay, gravimetric finish.

Rejects retained one month,  
 pulps one year, unless  
 specific arrangements made.

*Dunco Sandison*  
 Certified Assayer of British Columbia

**GEOCHEMICAL REPORT**

TO: Energex Minerals Ltd.  
 #703 - 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-106

DATE: July 25, 1985

ATTENTION: B. Price cc. A.O. Birkland

PROJECT: A1 (036)

| Sample Description | Ag ppm |
|--------------------|--------|
| 13606              | .2     |
| 13607              | 1.6    |
| 13608              | 1.0    |
| 13609              | 1.6    |
| 13610              | 1.5    |
| 13611              | 1.6    |
| 13612              | 2.2    |
| 13613              | 1.4    |
| 13614              | .3     |
| 13615              | .6     |
| 13616              | 2.6    |
| 13617              | 1.0    |
| 13618              | .4     |
| 13619              | .6     |
| 13620              | 1.0    |
| 13621              | .8     |
| 13622              | .7     |
| 13623              | 1.9    |
| 13624              | 4.3    |
| 13625              | 5.6    |
| 13626              | 1.8    |
| 13627              | 9.2    |
| 13628              | 32     |
| 13629              | .8     |
| 13630              | .6     |
| 13631              | 1.2    |
| 13632              | .5     |
| 13633              | 1.4    |
| 13634              | 2.4    |
| 13635              | 2.6    |
| 13636              | 3.7    |
| 13637              | 6.2    |
| 13638              | 6.7    |
| 13639              | .4     |
| 13640              | 1.1    |
| 13641              | 1.0    |
| 13642              | 2.3    |
| 13643              | 1.1    |
| 13644              | 4.8    |
| 13645              | 1.2    |

#A10

*Duncan Sanderson*.....

**GEOCHEMICAL REPORT**

| Sample Description | Ag ppm |
|--------------------|--------|
| 13646 - #A10       | 1.0    |
| 13647 - ?          | .2     |
| 13648              | 1.2    |
| 13649              | 1.2    |
| 13650              | 1.3    |
| 13651              | 1.2    |
| 13652              | 4.6    |
| 13653              | 2.6    |
| 13654              | 1.6    |
| 13655              | 4.1    |
| 13656              | 3.9    |
| 13657              | 3.1    |
| 13658              | 1.5    |
| 13659              | .9     |
| 13660              | .9     |
| 13661              | 3.0    |
| 13662              | .8     |
| 13663 - #A11       | .6     |
| 13664              | .6     |
| 13665              | .5     |
| 13666              | .5     |
| 13667              | .5     |
| 13668              | .8     |
| 13669              | .9     |
| 13670              | 1.1    |
| 13671              | 1.3    |
| 13672              | 1.6    |
| 13673              | 1.0    |
| 13674              | 1.3    |
| 13675              | 1.9    |
| 13676              | 4.5    |
| 13677              | 3.0    |
| 13678              | 2.5    |
| 13679              | 1.1    |
| 13680              | .8     |
| 13681              | .8     |
| 13682              | .6     |
| 13557              | .9     |
| 13558              | .9     |
| 13559              | .8     |
| 13560              | .6     |
| 13561              | .9     |
| 13562 - #A8        | 2.2    |
| 13563              | .9     |
| 13564              | 1.0    |
| 13565              | .9     |
| 13566              | .9     |
| 13567              | .9     |
| 13568              | 2.5    |
| 13569              | 1.0    |

*Dumas Sanderson.....*

**GEOCHEMICAL REPORT**

| Sample Description | Ag PPM |
|--------------------|--------|
| 13570              | .6     |
| 13571              | .3     |
| 13572              | 1.0    |
| 13573              | 1.6    |
| 13574              | .8     |
| 13575              | .8     |
| 13576              | .9     |
| 13577              | 3.3    |
| 13578              | 1.7    |
| 13579              | .9     |
| 13580              | .8     |
| 13581              | 3.0    |
| 13582              | .8     |
| 13583              | .7     |
| 13584              | .3     |
| 13585              | 2.8    |
| 13586              | 4.9    |
| 13587              | 11.2   |
| 13588              | 1.1    |
| 13589              | 10.1   |
| 13590              | 3.3    |
| 13591              | 2.9    |
| 13592              | 8.7    |
| 13593              | 8.5    |
| 13594              | 25     |
| 13595              | 6.7    |
| 13596              | 10.6   |
| 13597              | 5.8    |
| 13598              | 20.0   |
| 13599              | 8.3    |
| 13600              | .6     |
| 13601              | 6.7    |
| 13602              | 16.2   |
| 13603              | 3.4    |
| 13604              | 11.6   |
| 13605              | 4.3    |
| 13547              | .5     |
| 13548              | .6     |
| 13549              | .4     |
| 13550              | .3     |
| 13551              | .4     |
| 13552              | .5     |
| 13553              | .7     |
| 13554              | .8     |
| 13555              | .7     |
| 13556              | .2     |
| 13683              | .5     |
| 13684              | 1.3    |
| 13685              | .7     |
| 13686              | .5     |

A8

A9

A7

A11

*Duncan Sanderson.....*

**GEOCHEMICAL REPORT**

| Sample Description | Ag ppm |                 |
|--------------------|--------|-----------------|
| 13687 - #A11       | .4     |                 |
| 13688              | .1     |                 |
| 13689              | 5.3    |                 |
| 13690              | 12.2   |                 |
| 13691              | 6.1    |                 |
| 13692              | 1.4    |                 |
| 13693 } #A12       | 5.6    |                 |
| 13694              | 3.9    |                 |
| 13695              | 2.0    |                 |
| 13696              | 2.5    |                 |
| 13697              | 3.8    |                 |
| 13698              | 8.9    |                 |
| 13699              | 3.6    |                 |
| 13700              | 4.9    |                 |
| 13701              | .6     |                 |
| 13702              | 1.3    |                 |
| 13703              | 1.3    |                 |
| 13704              | 2.8    |                 |
| 13705              | .3     |                 |
| 13706 } #A13       | 5.8    |                 |
| 13707              | 15.8   |                 |
| 13708              | 16.0   |                 |
| 13709              | 2.7    |                 |
| 13710              | 5.6    |                 |
| 13711 } #A14       | 5.9    |                 |
| 13712              | 2.7    |                 |
| 13713              | .6     |                 |
| 13714              | 1.5    |                 |
| 13715              | .4     |                 |
| 13716              | 2.0    |                 |
| 13717              | 3.8    |                 |
| 13718              | 1.1    |                 |
| 13719 } #A15       | 5.7    |                 |
| 13720              | 6.5    |                 |
| 13721              | 2.2    |                 |
| 13722              | 1.5    |                 |
| 13723              | 2.5    |                 |
| 26306E             | 16.8   | Au (ppb)<br>110 |

Results of file 85-106 are geochemical determinations:

Au: fire assay, AA.

Ag: aqua regia digestion, AA

*Duncan Sanderson*.....

**ASSAY REPORT**

TO: Energex Minerals Ltd.  
 #703 - 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-106A

DATE: July 25, 1985

ATTENTION: B. Price cc. A.O.Birkland

PROJECT: A1 (036)

| Sample Description | Au g/tonne |
|--------------------|------------|
| 13606 — ?          | <0.05      |
| 13607              | 1.05       |
| 13608              | 0.55       |
| 13609              | 1.20       |
| 13610              | 1.35       |
| 13611              | 1.60       |
| 13612              | 1.85       |
| 13613              | 1.35       |
| 13614              | 1.45       |
| 13615              | 1.45       |
| 13616              | 6.25       |
| 13617              | 1.05       |
| 13618              | 0.40       |
| 13619              | 2.65       |
| 13620              | 8.95       |
| 13621              | 1.20       |
| 13622              | 3.75       |
| 13623              | 6.00       |
| 13624              | 28.15      |
| 13625              | 31.08      |
| 13626              | 13.37 VG   |
| 13627              | 149.0      |
| 13628              | 1394 VG    |
| 13629              | 2.40       |
| 13630              | 2.80       |
| 13631              | 2.55       |
| 13632              | 3.05       |
| 13633              | 3.85       |
| 13634              | 9.05       |
| 13635              | 3.45       |
| 13636              | 2.65       |
| 13637              | 10.95      |
| 13638              | 8.95       |
| 13639              | 0.80       |
| 13640              | 2.55       |
| 13641              | 1.20       |
| 13642              | 7.85       |
| 13643              | 2.55       |
| 13644              | 4.15       |
| 13645              | 1.05       |

Rejects retained one month,  
 pulps one year, unless  
 specific arrangements made.

*Duncan Sanderson*  
 Certified Assayer of British Columbia

**ASSAY REPORT**

| Sample Description | Au g/tonne |
|--------------------|------------|
| 13646 — #A10       | 0.65       |
| 13647 — ?          | <0.05      |
| 13648              | 0.80       |
| 13649              | 1.05       |
| 13650              | 1.45       |
| 13651              | 1.85       |
| 13652              | 3.85       |
| 13653              | 2.00       |
| 13654              | 1.35       |
| 13655              | 2.95       |
| 13656              | 2.00       |
| 13657              | 1.45       |
| 13658              | 1.20       |
| 13659              | 0.15       |
| 13660              | 0.55       |
| 13661              | 3.85       |
| 13662              | <0.05      |
| 13663              | 0.15       |
| 13664              | <0.05      |
| 13665              | <0.05      |
| 13666              | <0.05      |
| 13667              | <0.05      |
| 13668              | 0.80       |
| 13669              | 0.65       |
| 13670              | 1.35       |
| 13671              | 1.60       |
| 13672              | 1.35       |
| 13673              | 0.80       |
| 13674              | 1.60       |
| 13675              | 2.55       |
| 13676              | 3.45       |
| 13677              | 4.40       |
| 13678              | 2.55       |
| 13679              | 1.05       |
| 13680              | 0.95       |
| 13681              | 0.15       |
| 13682              | <0.05      |
| 13557              | 2.15       |
| 13558              | 0.80       |
| 13559              | 1.20       |
| 13560              | 0.25       |
| 13561              | 0.95       |
| 13562              | 11.75      |
| 13563              | 1.05       |
| 13564              | 1.85       |
| 13565              | 1.75       |
| 13566              | 1.85       |
| 13567              | 2.40       |
| 13568              | 3.85       |
| 13569              | 2.00       |

#A11

#A8

*Duncan Sandison*  
 Certified Assayer of British Columbia



ASSAY REPORT

| Sample Description | Au g/tonne |
|--------------------|------------|
| 13570              | 1.35       |
| 13571              | 1.05       |
| 13572              | 1.35       |
| 13573              | 4.65       |
| 13574              | 1.75       |
| 13575              | 1.87       |
| 13576              | 0.95       |
| 13577              | 0.95       |
| 13578              | 0.80       |
| 13579              | 0.55       |
| 13580              | 0.55       |
| 13581              | 0.40       |
| 13582              | 0.25       |
| 13583              | 0.25       |
| 13584              | <0.05      |
| 13585              | <0.05      |
| 13586              | <0.05      |
| 13587              | <0.05      |
| 13588              | <0.05      |
| 13589              | 1.20       |
| 13590              | 0.40       |
| 13591              | 0.40       |
| 13592              | 0.80       |
| 13593              | 1.20       |
| 13594              | 1.75       |
| 13595              | 0.95       |
| 13596              | 1.75       |
| 13597              | 1.05       |
| 13598              | 2.25       |
| 13599              | 1.75       |
| 13600              | 0.15       |
| 13601              | 0.95       |
| 13602              | 2.00       |
| 13603              | 0.80       |
| 13604              | 1.35       |
| 13605              | 0.65       |
| 13547              | 7.35       |
| 13548              | 2.25       |
| 13549              | 3.75       |
| 13550              | 3.05       |
| 13551              | 2.40       |
| 13552              | 3.45       |
| 13553              | 4.00       |
| 13554              | 0.95       |
| 13555              | 1.45       |
| 13556              | <0.05      |
| 13683              | <0.05      |
| 13684              | 0.05       |
| 13685              | 0.15       |
| 13686              | <0.05      |

#A8

?

#A9

#A7

#A11

.....*Duncan Sandison*.....  
 Certified Assayer of British Columbia

**ASSAY REPORT**

| Sample Description | Au g/tonne |
|--------------------|------------|
| 13687 - #A11       | 0.15       |
| 13688 - ?          | 0.40       |
| 13689              | 0.25       |
| 13690              | 9.05       |
| 13691              | 7.75       |
| 13692              | 0.25       |
| 13693              | 2.15       |
| 13694 - #A12       | 0.25       |
| 13695              | 0.55       |
| 13696              | <0.05      |
| 13697              | 1.05       |
| 13698              | 1.75       |
| 13699              | 17.75      |
| 13700              | 8.40       |
| 13701              | 1.05       |
| 13702              | 1.05       |
| 13703 - #A13       | 2.55       |
| 13704 - ?          | 1.60       |
| 13705 - ?          | <0.05      |
| 13706              | 3.60       |
| 13707              | <0.05      |
| 13708              | 0.55       |
| 13709              | 5.20       |
| 13710              | 17.20      |
| 13711 - #A14       | 15.45      |
| 13712              | 1.35       |
| 13713              | 0.25       |
| 13714              | 0.15       |
| 13715 - ?          | <0.05      |
| 13716              | 0.15       |
| 13717              | 0.55       |
| 13718              | 1.05       |
| 13719 - #A15       | 1.20       |
| 13720              | 16.95      |
| 13721              | 3.20       |
| 13722              | 1.85       |
| 13723              | 1.60       |

Results of file 85-106A are assays:  
 Au: fire assay, gravimetric finish.

*Duncan Sanderson*  
 Certified Assayer of British Columbia

**GEOCHEMICAL REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-108

DATE: July 30, 1985

ATTENTION: B. Price cc. A.O. Birkland

PROJECT: A1 (036)

| Sample Description | Ag ppm | Ag ppm          |
|--------------------|--------|-----------------|
| 13765              | 5.1    | 13805 > A20 4.0 |
| 13766              | 1.7    | 13806 > A20 5.8 |
| 13767              | 1.9    | 13807 } 11.2    |
| 13768              | 2.0    | 13808 } 5.3     |
| 13769              | 3.3    | 13809 } 8.0     |
| 13770              | 15.9   | 13810 } 5.1     |
| 13771 } A19 5.8    |        | 13811 } A21 5.6 |
| 13772 } 4.1        |        | 13812 } 2.1     |
| 13773 } 2.4        |        | 13813 } 18.6    |
| 13774 } 4.4        |        | 13814 } 0.1     |
| 13775 } 2.9        |        | 13815 } 0.6     |
| 13776 } 6.4        |        | 13816 } 1.1     |
| 13777 } 5.2        |        | 13817 } A24 1.9 |
| 13778 } 3.3        |        | 13818 } 4.0     |
| 13779 } 2.4        |        | 13819 } 4.5     |
| 13780 } 2.9        |        | 13820 } 7.6     |
| 13781 } 0.1        |        | 13821 } 6.4     |
| 13782 } 0.7        |        |                 |
| 13783 } 0.5        |        |                 |
| 13784 } 1.9        |        |                 |
| 13785 } 1.9        |        |                 |
| 13786 } 1.2        |        |                 |
| 13787 } 6.2        |        |                 |
| 13788 } 7.7        |        |                 |
| 13789 } 8.1        |        |                 |
| 13790 } 5.0        |        |                 |
| 13791 } 2.4        |        |                 |
| 13792 } A20 1.7    |        |                 |
| 13793 } 3.2        |        |                 |
| 13794 } 6.2        |        |                 |
| 13795 } 2.1        |        |                 |
| 13796 } 2.0        |        |                 |
| 13797 } 3.4        |        |                 |
| 13798 } 2.0        |        |                 |
| 13799 } 4.9        |        |                 |
| 13800 } 6.7        |        |                 |
| 13801 } 3.0        |        |                 |
| 13802 } 0.3        |        |                 |
| 13803 } 0.9        |        |                 |
| 13804 } 9.4        |        |                 |

Results of file 85-108 are geochemical determinations:  
 Ag: aqua regia digestion, AA.

*Duncan Sanderson*

**ASSAY REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-108A

DATE: July 29, 1985

ATTENTION: B. Price cc. A.O. Birkland

PROJECT: A1 (036)

| Sample Description | Au g/tonne | Au g/tonne        |
|--------------------|------------|-------------------|
| 13765              | <0.05      | 13805 } #A20 0.27 |
| 13766              | <0.05      | 13806 } 0.27      |
| 13767              | 0.27       | 13807 } <0.05     |
| 13768              | 0.40       | 13808 } 0.40      |
| 13769              | 6.00       | 13809 } #A21 4.93 |
| 13770              | 21.33      | 13810 } 0.93      |
| 13771              | 11.47      | 13811 } 4.80      |
| 13772 } #A19       | 2.00       | 13812 } 2.53      |
| 13773              | 1.20       | 13813 } 0.80      |
| 13774              | 3.33       | 13814 } 0.27      |
| 13775              | 4.27       | 13815 } 0.80      |
| 13776              | 16.27      | 13816 } #A24 0.27 |
| 13777              | 4.80       | 13817 } 1.60      |
| 13778              | 0.67       | 13818 } 0.67      |
| 13779              | 2.67       | 13819 } 0.80      |
| 13780              | 5.47       | 13820 } 3.20      |
| 13781 ?            | 0.20       | 13821 } 2.93      |
| 13782              | 0.10       |                   |
| 13783              | <0.05      |                   |
| 13784              | 0.27       |                   |
| 13785              | 1.47       |                   |
| 13786              | 0.93       |                   |
| 13787              | 1.20       |                   |
| 13788              | 1.47       |                   |
| 13789              | 6.13       |                   |
| 13790              | 21.20      |                   |
| 13791              | 0.53       |                   |
| 13792              | 0.93       |                   |
| 13793              | 1.07       |                   |
| 13794 } #A20       | 5.20       |                   |
| 13795              | 3.93       |                   |
| 13796              | 0.53       |                   |
| 13797              | 5.20       |                   |
| 13798              | 0.10       |                   |
| 13799              | 1.20       |                   |
| 13800              | 1.07       |                   |
| 13801              | 0.10       |                   |
| 13802              | <0.05      |                   |
| 13803              | <0.05      |                   |
| 13804              | 0.10       |                   |

Results of file 85-108A are assays:  
 Au: fire assay, gravimetric finish.

Rejects retained one month,  
 pulps one year, unless  
 specific arrangements made.

*Duncan Sandison*  
 Certified Assayer of British Columbia

**GEOCHEMICAL REPORT**

TO: **Energex Minerals Ltd.**  
**#703, 850 West Hastings**  
**Vancouver, B.C.**  
**V6C 1E1**

FILE NO.: 85-135

DATE: August 13, 1985

ATTENTION: **B. Price** cc. **A.O. Birkland**

PROJECT: A1 (036)

| Sample Description | Ag ppm |
|--------------------|--------|
| 16923              | 1.1    |
| 16924 } A85-14     | 0.1    |
| 16925              | 0.1    |
| 16926              | 0.1    |
| 16927              | 0.2    |
| 16928              | 1.0    |
| 16929              | 0.1    |
| 16930 } A85-15     | 0.2    |
| 16931              | 0.2    |
| 16932              | 0.4    |
| 16933              | 2.4    |

Results of file 85-135 are geochemical determinations:  
Ag: aqua regia digestion, AA.

J

*Duncan Sanderson*.....

**ASSAY REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-135A

DATE: August 13, 1985

ATTENTION: B. Price cc. A.O. Birkland

PROJECT: A1 (036)

| Sample Description       | Au g/tonne |
|--------------------------|------------|
| 16923                    | <0.05      |
| 16924 } A85-14           | 0.30       |
| 16925 } <del>16925</del> | <0.05      |
| 16926 } <del>16926</del> | <0.05      |
| 16927 } <del>16927</del> | <0.05      |
| 16928 } <del>16928</del> | <0.05      |
| 16929 } A85-15           | <0.05      |
| 16930 } <del>16930</del> | 0.20       |
| 16931 } <del>16931</del> | <0.05      |
| 16932 } <del>16932</del> | 0.20       |
| 16933 } <del>16933</del> | 3.40       |

*BV zone*

Results of file 85-135A are assays:  
 Au: fire assay, gravimetric finish.

Rejects retained one month,  
 pulps one year, unless  
 specific arrangements made.

*Duncan Sanderson*  
 Certified Assayer of British Columbia

**ASSAY REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-215

DATE: December 17, 1985

ATTENTION: A. O. Birkeland

PROJECT:

| Sample Description | Reject Assay Au (g/tonne) | Initial Assay Au (g/tonne) | high 2 <sup>nd</sup> assay | low 2 <sup>nd</sup> assay |
|--------------------|---------------------------|----------------------------|----------------------------|---------------------------|
| 17001              | 0.10                      | 0.20                       |                            | x                         |
| 17002              | 0.10                      | 0.10                       |                            |                           |
| 17003              | 0.10                      | 0.05                       | x                          |                           |
| 17004              | 0.13                      | 0.10                       | x                          |                           |
| 17005              | 0.07                      | <0.05                      | x                          |                           |
| 17006              | 0.10                      | 0.10                       |                            |                           |
| 17007              | 0.27                      | 0.60                       |                            | x                         |
| 17008              | 0.47                      | 0.50                       |                            |                           |
| 17009              | 0.20                      | 0.20                       |                            |                           |
| 17010              | 0.13                      | 0.50                       |                            | x                         |
| 17011              | 0.07                      | 0.10                       |                            |                           |
| 17012              | 0.07                      | 0.10                       |                            |                           |
| 17013              | 0.13                      | 0.10                       |                            |                           |
| 17014              | 0.13                      | 0.10                       |                            |                           |
| 17070              | 1.53                      | 1.60                       |                            |                           |
| 17071              | 1.67                      | 1.80                       |                            |                           |
| 17072              | 2.33                      | 2.30                       |                            |                           |
| 17073              | 3.03                      | 3.10                       |                            |                           |
| 17074              | 2.67                      | 2.90                       |                            |                           |
| 17075              | 2.23                      | 2.10                       |                            |                           |
| 17076              | 2.53                      | 2.60                       |                            |                           |
| 17077              | 2.47                      | 2.40                       |                            |                           |
| 17078              | 2.27                      | 2.10                       |                            |                           |
| 17079              | 1.50                      | 1.50                       |                            |                           |
| 17080              | 2.60                      | 2.70                       |                            |                           |
| 17081              | 3.73                      | 3.40                       | x                          |                           |
| 17082              | 2.63                      | 1.70                       |                            |                           |
| 17083              | 1.60                      | 1.50                       |                            |                           |
| 17084              | 2.20                      | 2.00                       |                            |                           |
| 17085              | 2.80                      | 2.90                       |                            |                           |
| 17086              | 4.20                      | 5.20                       |                            | x                         |
| 17087              | 3.60                      | 4.20                       |                            | x                         |
| 17088              | 1.93                      | 1.80                       |                            |                           |
| 17089              | 0.80                      | 0.80                       |                            |                           |
| 17090              | 1.40                      | 1.40                       |                            |                           |
| 17091              | 1.43                      | 1.60                       |                            |                           |
| 17092              | 1.33                      | 1.00                       | x                          |                           |
| 17093              | 0.73                      | 0.70                       |                            |                           |
| 17094              | 0.13                      | 0.10                       |                            |                           |
| 17095              | 0.17                      | 0.30                       |                            | x                         |

Bingo

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Rejects retained one month,  
 pulps one year, unless  
 specific arrangements made.

*Duncan Sandison*  
 Certified Assayer of British Columbia

ASSAY REPORT

| Sample Description | Reject Assay Au (g/tonne) | Initial Assay Au (g/tonne) | high 2nd assay | low 2nd assay |
|--------------------|---------------------------|----------------------------|----------------|---------------|
| 17096              | 1.47                      | 1.30                       |                |               |
| 17097              | 2.20                      | 2.20                       |                |               |
| 17098              | 2.67                      | 2.50                       |                |               |
| 17099              | 3.40                      | 3.70                       |                |               |
| 17100              | 1.93                      | 1.80                       |                |               |
| 17101              | 1.47                      | 1.40                       |                |               |
| 17102              | 2.27                      | 2.00                       |                |               |
| 17103              | 1.30                      | 1.30                       |                |               |
| 17104              | 1.33                      | 1.00                       | x              |               |
| 85-G-126           | 2.67                      | 2.80                       |                |               |
| 85-G-130           | 0.47                      | 0.76                       |                | x             |
| 85-G-131           | 0.87                      | 1.20                       |                | x             |
| 85-G-132           | 0.47                      | 0.11                       | x              |               |
| 17125              | 1.50                      | 1.60                       |                |               |
| 17126              | 1.67                      | 1.60                       |                |               |
| 17127              | 2.00                      | 2.00                       |                |               |
| 17128              | 2.00                      | 1.90                       |                |               |
| 17143              | 2.53                      | 2.20                       |                | x             |
| 17144              | 1.03                      | 0.90                       |                |               |
| 17145              | 4.70                      | 3.80                       | x              |               |
| 17146              | 2.60                      | 2.50                       |                |               |
| 17147              | 2.52                      | 2.40                       |                |               |
| 17154              | 0.67                      | 0.90                       |                | x             |
| 17155              | 1.00                      | 1.10                       |                |               |
| 17156              | 0.67                      | 0.90                       |                | x             |
| 17157              | 1.33                      | 1.40                       |                |               |
| 17158              | 1.33                      | 1.20                       |                |               |
| 17159              | 3.20                      | 3.70                       |                | x             |
| 17160              | 2.77                      | 2.70                       |                |               |
| 17180              | 1.60                      | 1.40                       | x              |               |
| 17181              | 0.77                      | 0.90                       |                |               |
| 17182              | 2.13                      | 2.30                       |                |               |
| 17183              | 4.87                      | 4.50                       |                |               |
| 17184              | 0.53                      | 0.60                       |                |               |
| 17185              | 0.80                      | 0.80                       |                |               |
| 17186              | 1.53                      | 1.60                       |                |               |
| 17187              | 1.53                      | 1.70                       |                |               |
| 17188              | 2.07                      | 1.90                       |                |               |
| 17189              | 2.17                      | 1.30                       |                |               |
| 17194              | 1.07                      | 1.00                       |                | x             |
| 17195              | 1.13                      | 1.00                       |                |               |
| 17196              | 2.57                      | 2.30                       |                |               |
| 17235              | 2.07                      | 2.10                       |                |               |
| 17236              | 2.13                      | 2.30                       |                |               |
| 17237              | 1.73                      | 1.70                       |                |               |
| 17238              | 0.40                      | 0.40                       |                |               |
| 17239              | 0.20                      | 0.20                       |                |               |
| 17240              | 1.33                      | 1.10                       |                |               |
| 17241              | 2.13                      | 1.90                       |                | x             |
| 17242              | 1.47                      | 1.30                       |                |               |

*Duncan Sandison*  
 Certified Assayer of British Columbia



**ASSAY REPORT**

| Sample Description | Reject Assay Au (g/tonne) | Initial Assay Au (g/tonne) |
|--------------------|---------------------------|----------------------------|
| 17243              | 0.93                      | 0.75                       |
| 17244              | 0.67                      | 0.80                       |
| 17245              | 1.00                      | 0.80                       |
| 17246              | 1.33                      | 1.20                       |
| 17247              | 1.00                      | 0.90                       |
| 17248              | 0.73                      | 0.90                       |
| 17249              | 1.07                      | 1.00                       |
| 17250              | 1.73                      | 1.50                       |
| 17251              | 0.93                      | 0.70                       |
| 17252              | 2.90                      | 2.80                       |
| 17253              | 2.13                      | 1.80                       |
| 17254              | 1.07                      | 0.80                       |
| 17255              | 5.07                      | 4.40                       |
| 17256              | 3.40                      | 3.20                       |
| 17257              | 2.37                      | 2.70                       |
| 17258              | 1.87                      | 1.70                       |
| 17259              | 2.20                      | 2.00                       |
| 17260              | 2.73                      | 2.70                       |
| 17261              | 1.60                      | 1.70                       |
| 17262              | 1.87                      | 1.80                       |
| 17263              | 1.93                      | 1.70                       |
| 17264              | 1.33                      | 1.20                       |
| 17265              | 0.80                      | 0.70                       |
| 17266              | 1.43                      | 1.20                       |
| 17267              | 0.80                      | 0.40                       |
| 17268              | 1.93                      | 1.60                       |
| 17269              | 1.07                      | 1.10                       |
| 17270              | 2.03                      | 1.95                       |
| 17271              | 1.87                      | 1.80                       |
| 17272              | 1.60                      | 1.45                       |
| 17273              | 0.40                      | 0.50                       |
| 17274              | 0.07                      | 0.15                       |
| 17275              | 0.20                      | 0.05                       |
| 17276              | 1.47                      | 1.50                       |
| 17277              | 3.47                      | 3.40                       |
| 17278              | 2.87                      | 2.50                       |
| 17279              | 1.47                      | 1.60                       |
| 17280              | 0.67                      | 0.70                       |
| 17281              | 1.07                      | 1.10                       |
| 17282              | 2.20                      | 2.20                       |
| 17283              | 2.00                      | 1.95                       |
| 17284              | 1.07                      | 1.25                       |
| 17285              | 0.73                      | 0.70                       |
| 17286              | 1.40                      | 1.55                       |
| 17287              | 1.73                      | 1.65                       |
| 17288              | 4.23                      | 4.45                       |
| 17289              | 3.47                      | 3.10                       |
| 17290              | 2.47                      | 2.40                       |
| 17291              | 1.67                      | 1.20                       |
| 17292              | 2.73                      | 2.60                       |

↑  
 ALL  
 BINGO  
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*Duncan Sandhu*  
 Certified Assayer of British Columbia

**ASSAY REPORT**

| Sample Description | Reject Assay Au (g/tonne) | Initial Assay Au (g/tonne) | High 2nd assay | Low 2nd assay |
|--------------------|---------------------------|----------------------------|----------------|---------------|
| 17293              | 2.27                      | 1.60                       | x              |               |
| 17294              | 3.00                      | 2.30                       | x              |               |
| 17295              | 2.87                      | 2.00                       | x              |               |
| 17296              | 2.40                      | 2.60                       |                |               |
| 17297              | 1.67                      | 1.50                       |                |               |
| 17298              | 1.93                      | 1.50                       | x              |               |
| 17299              | 1.33                      | 1.30                       |                |               |
| 17300              | 2.20                      | 2.00                       |                |               |
| 17301              | 1.67                      | 1.45                       |                |               |
| 17302              | 1.67                      | 1.70                       |                |               |
| 17303              | 1.67                      | 1.50                       |                |               |
| 17304              | 1.67                      | 1.70                       |                |               |
| 17305              | 0.93                      | 0.90                       |                |               |
| 17306              | 2.60                      | 2.60                       |                |               |
| 85-G-137           | 3.33                      | 2.90                       |                |               |
| 85-G-138           | 1.00                      | 1.20                       |                |               |
| 85-G-139           | 5.27                      | 5.05                       |                |               |
| 85-G-140           | 40.73                     | 58.50                      |                | x             |
| 85-G-141           | 0.33                      | 310 ppb (geochem)          |                |               |
| 85-G-142           | 0.27                      | 320 ppb "                  |                |               |
| 85-G-143           | 0.10                      | 270 ppb "                  |                |               |
| 85-G-144           | 3.27                      | 3.75                       |                |               |
| 85-G-145           | 0.37                      | 370 ppb (geochem)          |                |               |
| 85-G-146           | 1.67                      | 1.80                       |                |               |
| 85-G-153           | 1.33                      | 1000 ppb (geochem)         |                |               |
| 85-G-154           | 0.80                      | 820 ppb "                  |                |               |
| 85-G-159           | 3.17                      | 3.80                       |                |               |
| 85-G-172           | 1.10                      | 1.20                       |                |               |
| 85-G-173           | 0.33                      | 310 ppb (geochem)          |                |               |
| 85-G-174           | 1.47                      | 1.40                       |                |               |
| 85-G-175           | 1.27                      | 1.20                       |                |               |
| 85-G-176           | 0.50                      | 660 ppb (geochem)          |                |               |
| 85-G-177           | 0.47                      | 410 ppb "                  |                |               |
| 85-G-178           | 1.20                      | 1.00                       |                |               |
| 85-G-182           | 1.13                      | 1.25                       |                |               |
| 85-B-296           | 0.80                      | 0.90                       |                |               |
| 85-B-323           | 1.80                      | 1.35                       |                |               |
| 17148              | 1.00                      | 1.10                       |                |               |
| 17149              | 0.93                      | 0.90                       |                |               |
| 17150              | 1.07                      | 1.00                       |                |               |
| 17151              | 1.13                      | 1.35                       |                |               |
| 17152              | 0.73                      | 0.90                       |                |               |
| 17153              | 0.47                      | 0.70                       |                |               |

↑  
Bingo  
↓  
Patti

↑  
Bingo  
↓  
Patti

*Duncan S. ...*  
 Certified Assayer of British Columbia

**ASSAY REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-172

DATE: September 12, 1985

ATTENTION: B. Price cc. A.O. Birkland

PROJECT: A1 (036)

| Sample Description | Au g/tonne |       | Au g/tonne |
|--------------------|------------|-------|------------|
| 17229              | 0.20       | 17269 | 1.10       |
| 17230              | 2.60       | 17270 | 1.95       |
| 17231              | 0.10       | 17271 | 1.80       |
| 17232              | 0.05       | 17272 | 1.45       |
| 17233              | <0.05      | 17273 | 0.50       |
| 17234              | 0.40       | 17274 | 0.15       |
| 17235              | 2.10       | 17275 | 0.05       |
| 17236              | 2.30       | 17276 | 1.50       |
| 17237              | 1.70       | 17277 | 3.40       |
| 17238              | 0.40       | 17278 | 2.50       |
| 17239              | 0.20       | 17279 | 1.60       |
| 17240              | 1.10       | 17280 | 0.70       |
| 17241              | 1.90       | 17281 | 1.10       |
| 17242              | 1.30       | 17282 | 2.20       |
| 17243              | 0.75       | 17283 | 1.95       |
| 17244              | 0.80       | 17284 | 1.25       |
| 17245              | 0.80       | 17285 | 0.70       |
| 17246              | 1.20       | 17286 | 1.55       |
| 17247              | 0.90       | 17287 | 1.65       |
| 17248              | 0.90       | 17288 | 4.45       |
| 17249              | 1.00       | 17289 | 3.10       |
| 17250              | 1.50       | 17290 | 2.40       |
| 17251              | 0.70       | 17291 | 1.20       |
| 17252              | 2.80       | 17292 | 2.60       |
| 17253              | 1.80       | 17293 | 1.60       |
| 17254              | 0.80       | 17294 | 2.30       |
| 17255              | 4.40       | 17295 | 2.00       |
| 17256              | 3.20       | 17296 | 2.60       |
| 17257              | 2.70       | 17297 | 1.50       |
| 17258              | 1.70       | 17298 | 1.50       |
| 17259              | 2.00       | 17299 | 1.30       |
| 17260              | 2.70       | 17300 | 2.00       |
| 17261              | 1.70       | 17301 | 1.45       |
| 17262              | 1.80       | 17302 | 1.70       |
| 17263              | 1.70       | 17303 | 1.50       |
| 17264              | 1.20       | 17304 | 1.70       |
| 17265              | 0.70       | 17305 | 0.90       |
| 17266              | 1.20       | 17306 | 2.60       |
| 17267              | 0.40       | 17307 | 0.70       |
| 17268              | 1.60       | 17308 | 0.90       |

TR ABS-18

TR ABS-18

TR ABS-17

Reacts retained one month,  
 pulps one year, unless  
 specific arrangements made.

*Duncan Sandison*  
 Certified Assayer of British Columbia

**ASSAY REPORT**

| Sample Description | Au g/tonne | Au g/tonne |      |
|--------------------|------------|------------|------|
| 17309              | 1.40       | 17319      | 0.65 |
| 17310              | 1.00       | 17320      | 0.55 |
| 17311              | 0.85       | 17321      | 0.50 |
| 17312              | 0.55       | 17322      | 0.30 |
| 17313              | 1.60       | 17323      | 0.60 |
| 17314              | 1.00       | 17324      | 0.55 |
| 17315              | 0.70       | 17325      | 0.40 |
| 17316              | 1.00       | 17326      | 1.30 |
| 17317              | 0.45       | 17327      | 0.10 |
| 17318              | 0.55       |            |      |

TR  
ABS-17

TR  
ABS-17

Results of file 85-172 are assays:  
Au: fire assay, gravimetric finish.

*Duncan Sandison*  
Certified Assayer of British Columbia

**ASSAY REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO: 85-167

DATE: September 11, 1985

ATTENTION: B. Price cc: A.O. Birkland

PROJECT: A1 (036)

| Sample Description | Au g/tonne | Au g/tonne |       |
|--------------------|------------|------------|-------|
| 17115              | 0.60       | 17145      | 3.80  |
| 17116              | 0.70       | 17146      | 2.50  |
| 17117              | 1.40       | 17147      | 2.40  |
| 17118              | 0.50       | 17148      | 1.10  |
| 17119              | 0.60       | 17149      | 0.90  |
| 17120              | 0.70       | 17150      | 1.00  |
| 17121              | 0.60       | 17151      | 1.35  |
| 17122              | 0.30       | 17152      | 0.90  |
| 17123              | 0.50       | 17153      | 0.70  |
| 17124              | 0.20       | 17154      | 0.90  |
| 17125              | 1.60       | 17155      | 1.10  |
| 17126              | 1.60       | 17156      | 0.90  |
| 17127              | 2.00       | 17157      | 1.40  |
| 17128              | 1.90       | 17158      | 1.20  |
| 17129              | 0.50       | 17159      | 3.70  |
| 17130              | 0.30       | 17160      | 2.70  |
| 17131              | 0.40       | 17161      | 1.00  |
| 17132              | 0.80       | 17162      | 0.60  |
| 17133              | 0.90       | 17163      | 0.20  |
| 17134              | 0.80       | 17164      | <0.05 |
| 17135              | 1.00       | 17165      | <0.05 |
| 17136              | 1.40       | 17166      | <0.05 |
| 17137              | 1.50       | 17167      | <0.05 |
| 17138              | 0.30       | 17168      | <0.05 |
| 17139              | 2.20       | 17169      | <0.05 |
| 17140              | 0.10       |            |       |
| 17141              | 0.30       |            |       |
| 17142              | 0.50       |            |       |
| 17143              | 2.20       |            |       |
| 17144              | 0.90       |            |       |

TR  
A85-15

TR  
A85-15

Results of file 85-167 are assays:  
 Au: fire assay, gravimetric finish.

Rejects retained one month,  
 pulps one year, unless  
 specific arrangements made.

*Duncan...Lunderson.....*  
 Certified Assayer of British Columbia

**ASSAY REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-168

DATE: September 11, 1985

ATTENTION: B. Price cc. A.O. Birkland

PROJECT: A1 - Bingo

| Sample Description | Au g/tonne | Au g/tonne |      |
|--------------------|------------|------------|------|
| 17170              | <0.05      | 17200      | 0.10 |
| 17171              | <0.05      | 17201      | 0.10 |
| 17172              | 0.60       | 17202      | 0.80 |
| 17173              | 1.00       | 17203      | 0.80 |
| 17174              | 0.30       | 17204      | 1.30 |
| 17175              | 0.20       | 17205      | 1.90 |
| 17176              | 0.40       | 17206      | 0.80 |
| 17177              | 0.10       | 17207      | 1.40 |
| 17178              | 0.10       | 17208      | 0.40 |
| 17179              | 0.40       | 17209      | 0.10 |
| 17180              | 1.40       | 17210      | 0.30 |
| 17181              | 0.90       | 17211      | 0.20 |
| 17182              | 2.30       | 17212      | 0.10 |
| 17183              | 4.50       | 17213      | 0.10 |
| 17184              | 0.60       | 17214      | 0.20 |
| 17185              | 0.80       | 17215      | 0.40 |
| 17186              | 1.60       | 17216      | 0.50 |
| 17187              | 1.70       | 17217      | 0.30 |
| 17188              | 1.90       | 17218      | 0.20 |
| 17189              | 1.30       | 17219      | 0.30 |
| 17190              | 2.00       | 17220      | 0.20 |
| 17191              | 1.90       | 17221      | 0.20 |
| 17192              | 1.30       | 17222      | 0.20 |
| 17193              | 1.20       | 17223      | 0.50 |
| 17194              | 1.00       | 17224      | 0.40 |
| 17195              | 1.00       | 17225      | 0.10 |
| 17196              | 2.30       | 17226      | 0.20 |
| 17197              | 0.80       | 17227      | 0.30 |
| 17198              | 0.20       | 17228      | 0.90 |
| 17199              | <0.05      |            |      |

TR  
 ASS-16

TR  
 ASS-16

Results of file 85-168 are assays:  
 Au: fire assay, gravimetric finish.

Rejects retained one month,  
 pulps one year, unless  
 specific arrangements made.

*Duncan Sandison*  
 Certified Assayer of British Columbia

**ASSAY REPORT**

TO: Energex Minerals Ltd.  
 #703, 850 West Hastings  
 Vancouver, B.C.  
 V6C 1E1

FILE NO.: 85-165

DATE: September 6, 1985

ATTENTION: B. Price cc. A.O. Birkland

PROJECT: A1 (036)

| Sample Description | Au g/tonne |       | Au g/tonne |
|--------------------|------------|-------|------------|
| 17070              | 1.60       | 17100 | 1.80       |
| 17071              | 1.80       | 17101 | 1.40       |
| 17072              | 2.30       | 17102 | 2.00       |
| 17073              | 3.10       | 17103 | 1.30       |
| 17074              | 2.90       | 17104 | 1.00       |
| 17075              | 2.10       | 17105 | 0.10       |
| 17076              | 2.60       | 17106 | 0.30       |
| 17077              | 2.40       | 17107 | 0.40       |
| 17078              | 2.10       | 17108 | 0.20       |
| 17079              | 1.50       | 17109 | 0.30       |
| 17080              | 2.70       | 17110 | 0.10       |
| 17081              | 3.40       | 17111 | 0.20       |
| 17082              | 1.70       | 17112 | 0.50       |
| 17083              | 1.50       | 17113 | 0.90       |
| 17084              | 2.00       | 17114 | 0.30       |
| 17085              | 2.90       |       |            |
| 17086              | 5.20       |       |            |
| 17087              | 4.20       |       |            |
| 17088              | 1.80       |       |            |
| 17089              | 0.80       |       |            |
| 17090              | 1.40       |       |            |
| 17091              | 1.60       |       |            |
| 17092              | 1.00       |       |            |
| 17093              | 0.70       |       |            |
| 17094              | 0.10       |       |            |
| 17095              | 0.30       |       |            |
| 17096              | 1.30       |       |            |
| 17097              | 2.20       |       |            |
| 17098              | 2.50       |       |            |
| 17099              | 3.70       |       |            |

TR  
A85-14

TR  
A85-15  
✓

✓

TR  
A85-15

Results of file 85-165 are assays:  
 Au: fire assay, gravimetric finish.

Rejects retained one month,  
 pulps one year, unless  
 specific arrangements made.

*Duncan Sandison*  
 Certified Assayer of British Columbia

## CERTIFICATE

I, Louise K. Eccles, of 1050 Barnet Highway, Port Moody, British Columbia, do hereby certify that:

- 1. I graduated from the University of British Columbia with a Bachelor of Science degree in Geology in 1976.
- 2. I have been continuously employed as a geologist since 1976 working in areas of Western Canada, the United States and Ontario.
3. I am a member in good standing, of the Canadian Institute of Mining and Metallurgy and am a Fellow of the Geological Association of Canada.
4. I have been employed by Energex Minerals Ltd. since February 1985, as a Project Geologist on the Company's Toodoggone program.





**LEGEND**

- Unaltered andesitic to dacitic, porphyritic volcanics
- Altered (clays and silica) porphyritic volcanics
- Gold mineralization (1 gram/tonne and over)
- Fault showing relative movement
- Diamond drill hole, elevation
- Trench
- Trench intercept of gold mineralization (GOLD ASSAY (gpm/tonne) 8.0m)
- Alteration contact with fresh wall rock

**LITHOLOGY**  
 Dacite to andesite flow; plagioclase-hornblende porphyry has a fine-grained intermediate groundmass; original textures generally obscured by alteration.

**ALTERATION**

- A2 Argillization; complete replacement; white to red to brown; variable quartz-clay abundances; dominant clays are dickite, kaolinite, illite; accessory pyrite and/or hematite common; may be brecciated; may include intensely weathered equivalents of A3a (see below).
- A3 Weak argillite, sericitic and propylitic alteration; partial replacement by variable clay - sericite - chlorite assemblages.
- A3a Weak argillization; maroon to grey; feldspar altered to clay (v); sericite in phenocrysts and groundmass; mafic minerals strongly hematized in phenocrysts and groundmass.
- A5 Silicification; complete replacement; white to brown to grey; plagioclase phenocrysts commonly leached; average 1-2% vug; locally brecciated with silica - barite cement/veining; local limonite in fractures and/or vugs probably after original pyrite; relics of pyrite are rare.
- A7 Silicification - sulphidization; complete replacement.
- A7a Silicification + pyrite; grey to rusty brown; plagioclase variably silicified or partially leached with clay remnants; mafic minerals pyritized and silicified; generally brecciated with 1-2% vug.
- A8 Phyllic alteration.
- A8a 'Pre-phyllic' alteration; weak to strong replacement; original textures variably preserved; feldspars are argillized; mafic minerals are pyritized; moderate silica flooding through groundmass; pyrite is commonly limonitized; supergene argillization is variably present.

**MINERALS**

|    |                         |    |                   |
|----|-------------------------|----|-------------------|
| ga | gold                    | gl | galena            |
| ba | barite                  | mz | malachite-azurite |
| am | amethyst                | tt | tennantite        |
| he | hematite                | ja | jarosite          |
| tt | tetrahedrite-tennantite | se | sericite          |
| cc | chalcocite              | ca | calcite           |
| py | pyrite                  | ze | zeolite           |
| cp | chalcopyrite            | la | laumontite        |
| sl | sphalerite              |    |                   |

**SYMBOLS**

- Bedding; dipping; subvertical
- Alteration trend; no discernible dip, dipping subvertical
- Fracture trend; dipping; subvertical
- Breccia (secondary)
- Fault
- Lithographic/alteration boundary; observed, inferred
- Slacksides; plunge angle and direction
- Gold assay (value in g/tonne)

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

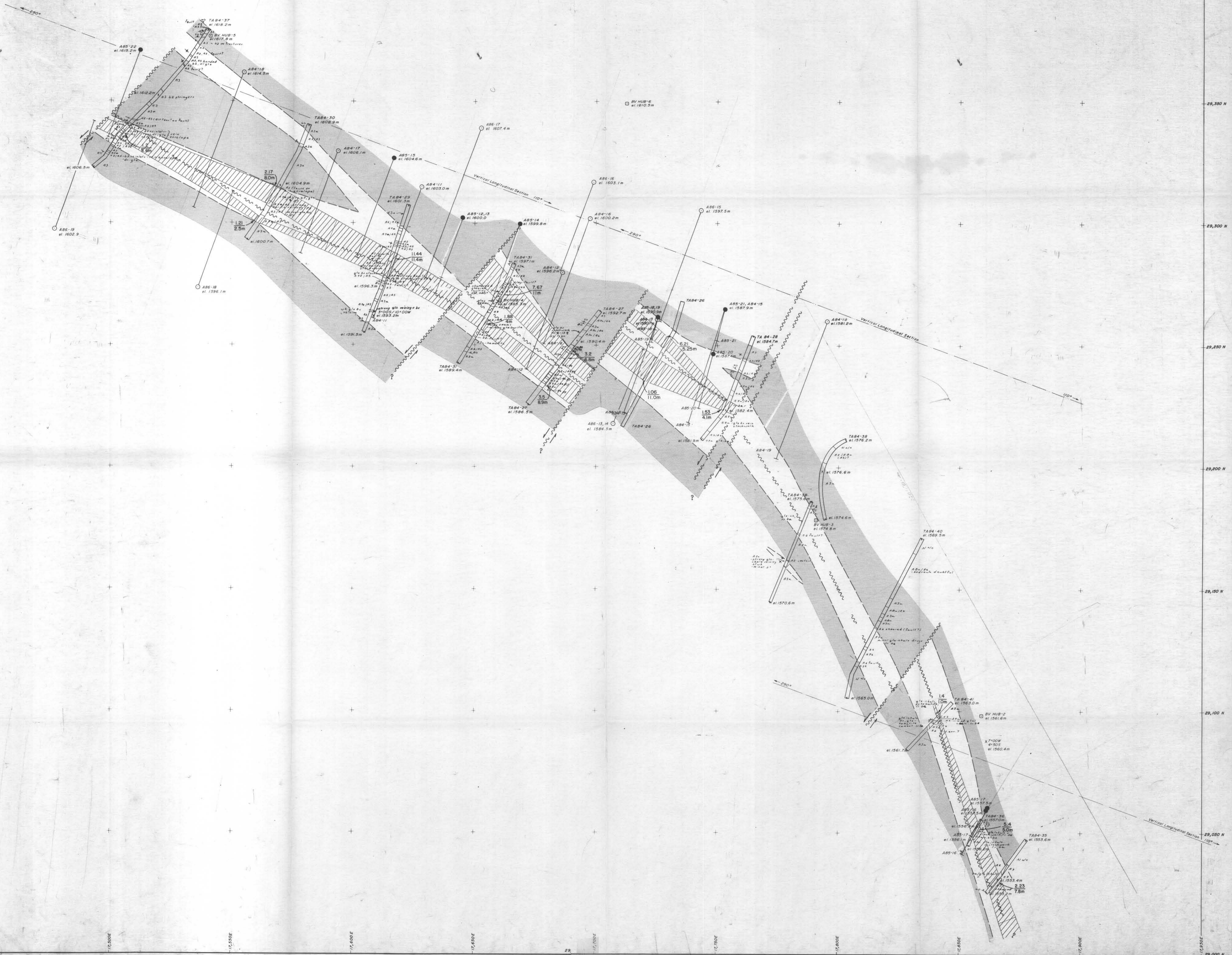
**14.459**

**energex**  
MINERALS LTD.

AI Property  
BV ZONE

**GENERALIZED GEOLOGY & MINERALIZATION PLAN**

Scale 1:500  
 Date: NOV, 1988  
 Rev'd: NTS  
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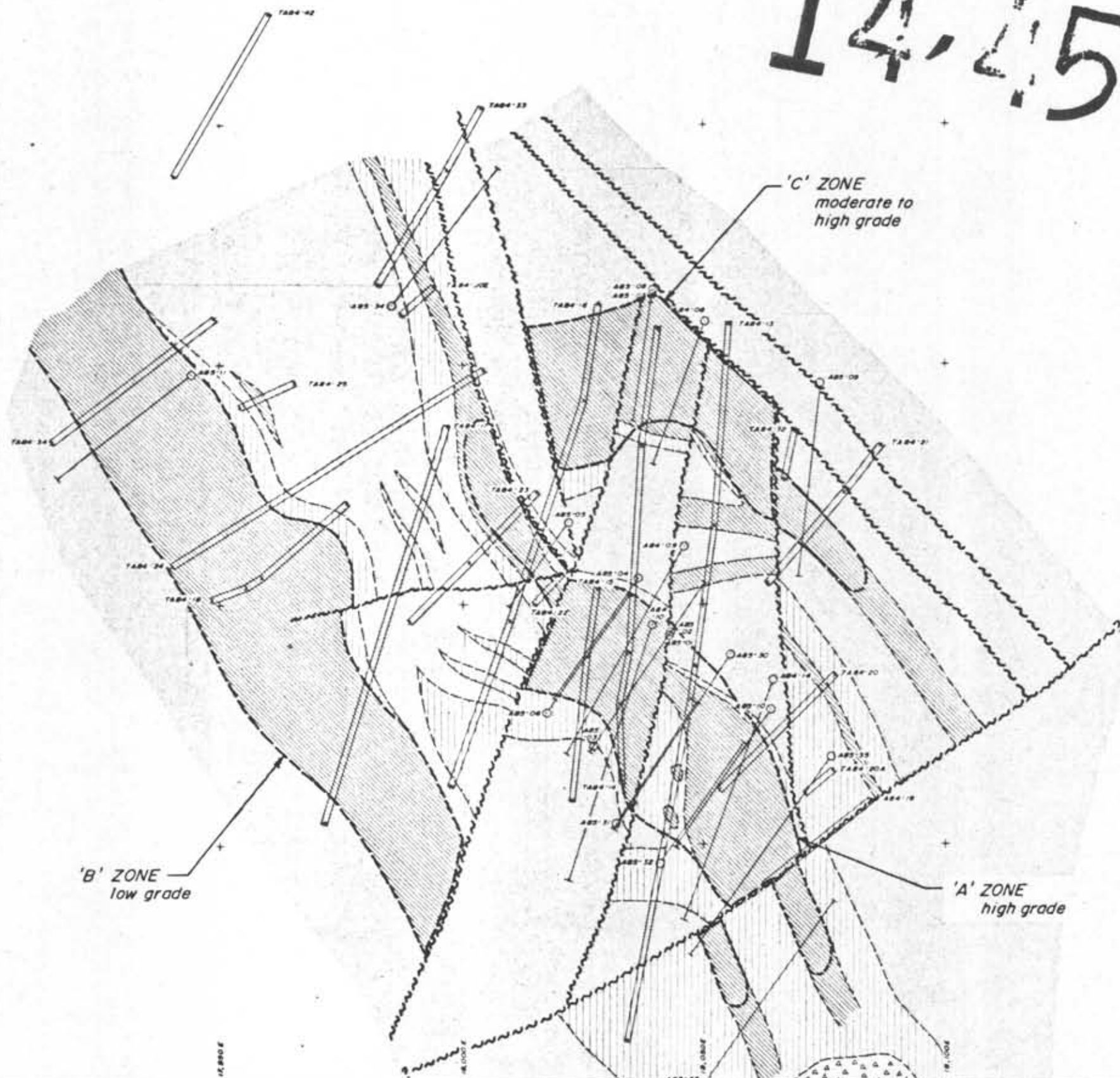


**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14-459**

|         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |    |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|
| 17,000E | 17,000W | 17,000E | 17,000W | 17,000E | 17,000W | 17,000E | 17,000W | 17,000E | 17,000W | 17,000E | 17,000W | 17,000E | 17,000W | 17,000E | 17,000W | 17,000E | 17,000W | 17,000E | 17,000W | 17,000E | 17,000W |    |
| 27      | 28      | 29      | 30      | 31      | 32      | 33      | 34      | 35      | 36      | 37      | 38      | 39      | 40      | 41      | 42      | 43      | 44      | 45      | 46      | 47      | 48      | 49 |
| 20      | 21      | 22      | 23      | 24      | 25      | 26      | 27      | 28      | 29      | 30      | 31      | 32      | 33      | 34      | 35      | 36      | 37      | 38      | 39      | 40      | 41      |    |
| 13      | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      | 23      | 24      | 25      | 26      | 27      | 28      | 29      | 30      | 31      | 32      | 33      | 34      |    |
| 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      | 23      | 24      | 25      | 26      | 27      |    |
| 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      |    |

SHEET INDEX



- LEGEND**
- Silica alteration  
— raggy, with barite and gold, rarely sericite  
— massive, with hematite, minor barite, gold and pyrite
  - Clay alteration — clay-silica mixtures, kaolinite, dickite, minor gypsum, pyrite, gold content generally low
  - Propylitic alteration — chlorite, hematite, minor clay, pyrite, and silica
  - Ferricrete — goethite, jarosite, with fragments of silica-amine
  - Outline of gold zones
  - Fault
  - Alteration/lithology boundary
  - Surface projection of diamond drill hole
  - Surface tracing of trench

SHEET NO. 26-L-1,11

**energex**  
MINERALS LTD

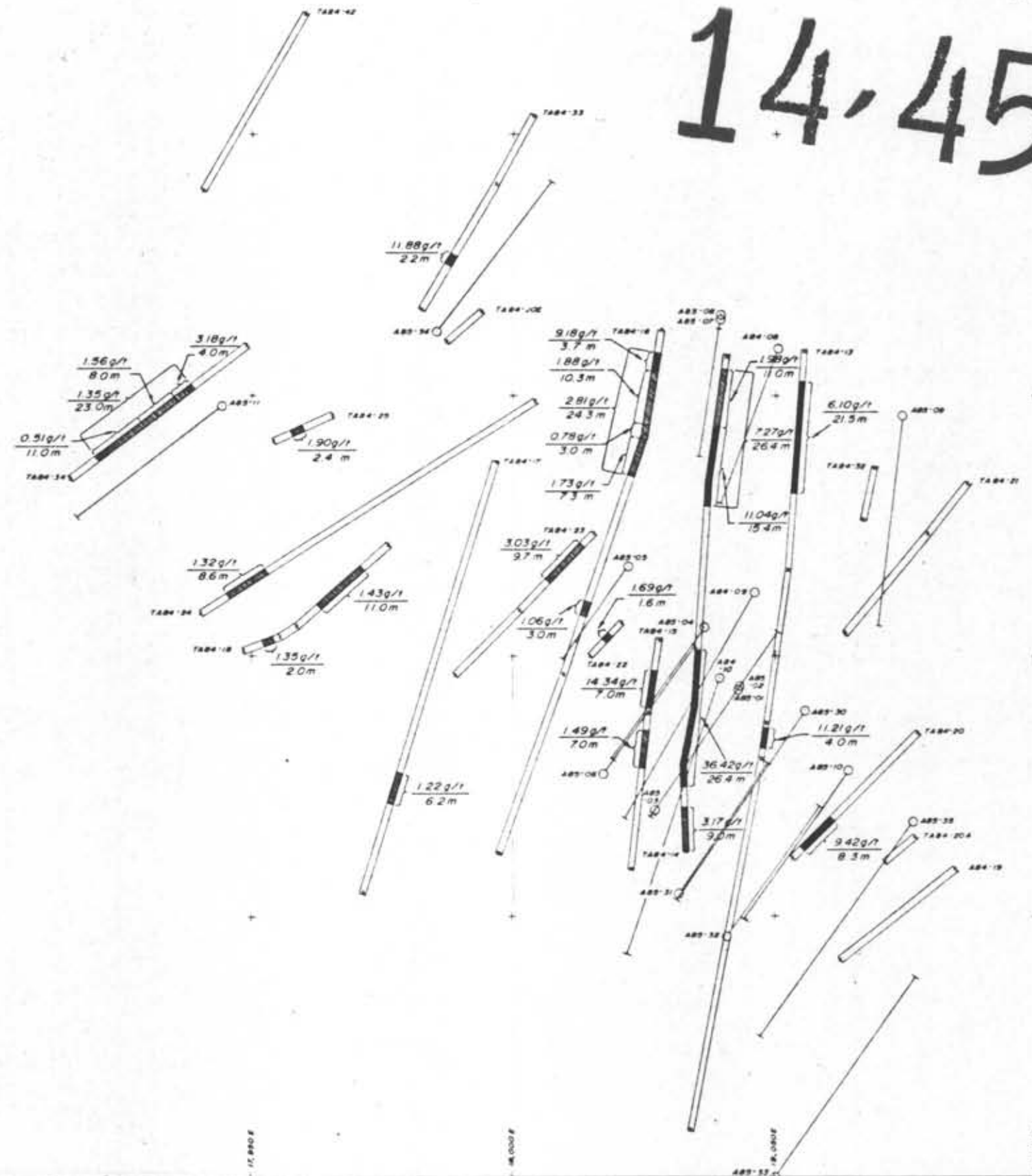
All Property  
**THESES ZONE**  
Trenches B  
Diamond Drill Holes  
GEOLOGY — ALTERATIONS

0 5 10 15 20 25m  
SCALE 1:500

Date: APR. 1986  
Author: KTS BA E/W  
Figure: 119

# GEOLOGICAL BRANCH ASSESSMENT REPORT

# 14-459



|    |    |    |    |    |    |          |
|----|----|----|----|----|----|----------|
| 37 | 38 | 39 | 40 | 41 | 42 | 30,000 E |
| 36 | 35 | 34 | 33 | 32 | 31 | 30,000 E |
| 29 | 28 | 27 | 26 | 25 | 24 | 30,000 E |
| 24 | 23 | 22 | 21 | 20 | 19 | 30,000 E |
| 13 | 14 | 15 | 16 | 17 | 18 | 30,000 E |
| 10 | 11 | 10 | 9  | 8  | 7  | 30,000 E |
| 1  | 2  | 3  | 4  | 5  | 6  | 30,000 E |

|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| 30,000 E | U | V | W | X | Y |
| 30,000 E | F | G | H | I | J |
| 30,000 E | K | L | M | N | O |
| 30,000 E | P | Q | R | S | T |
| 30,000 E | A | B | C | D | E |

SHEET INDEX

LEGEND

- Trench mineralization intersection
- Mineralized zone
- Highly mineralized zone
- Assay - Au g/t width(m)
- Surface tracing of trench

SHEET NO. 26-L-11

**energex**  
MINERALS LTD

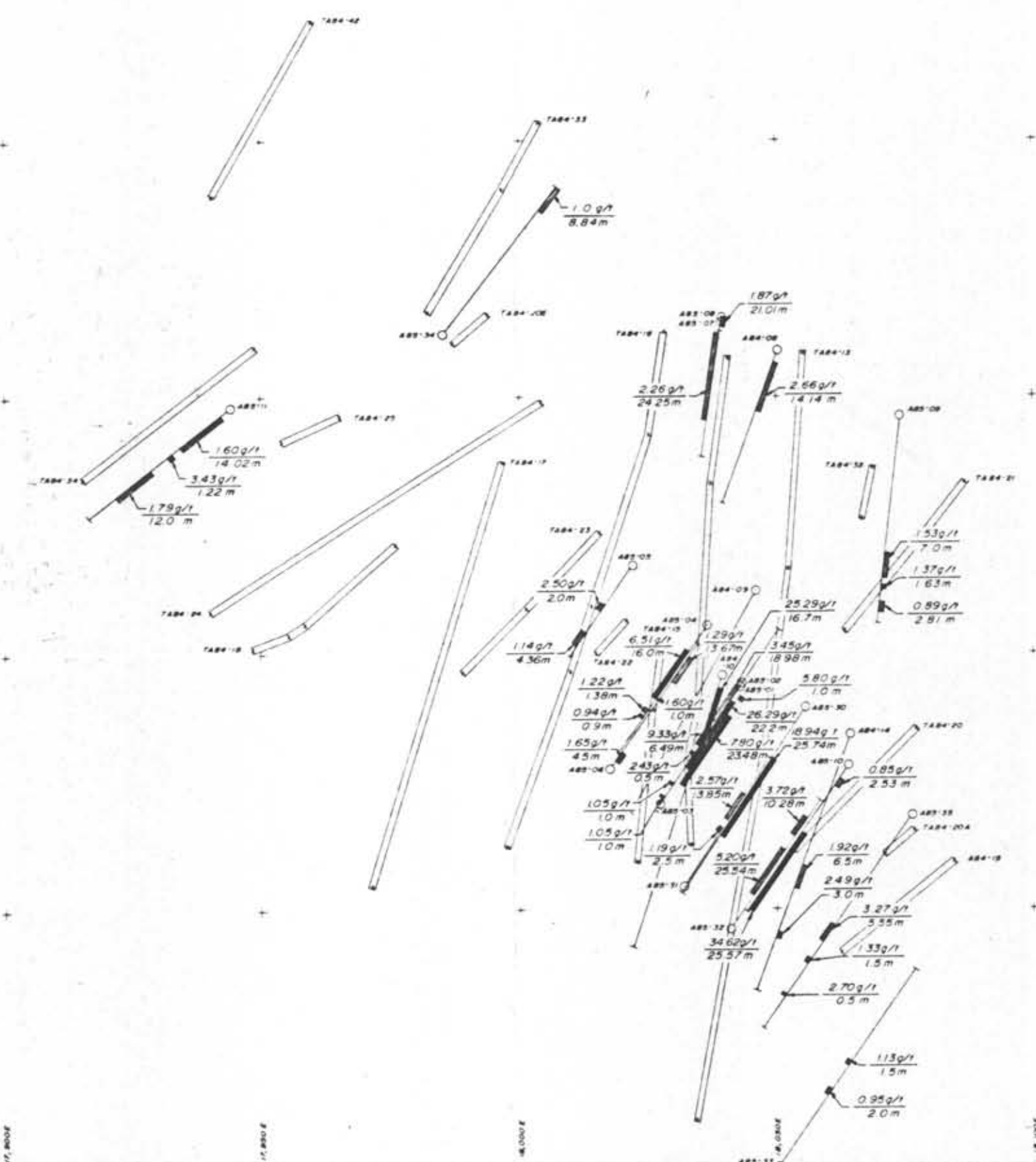
All Property  
THEISIS ZONE  
Trenches &  
Diamond Drill Holes  
TRENCH MINERALIZATION

0 5 10 15 20 25m  
SCALE 1:500

Date: JAN, 1988  
Revised: NTS 84 E/W Page 20



|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|



- LEGEND**
- Surface projection of mineralized intersection
  - Mineralized zone
  - Highly mineralized zone
  - Assay - Au g/t width(m)
  - Surface projection of diamond drill hole

SHEET NO 28-L-1,11

14,459

energex

MINERALS LTD

At Property

**THEISIS ZONE**

Trenches & Diamond Drill Holes

**DRILL HOLE MINERALIZATION**

Scale 1:500

Date: JAN, 1998

Drawn by: NTS 84 E/EM

Figure 21