87-254-16057

REPORT ON GEOLOGICAL MAPPING, TRENCHING, AND DIAMOND DRILLING ON THE AL 2, 3 AND 4 MINERAL CLAIMS (BONANZA 86 AND HUMP 86 GROUPS)

TOODOGGONE RIVER AREA
BRITISH COLUMBIA
Liard Mining Division
Lat. 57°28'N, Long. 127°22'W
29' NTS 94E/6W

by

Louise K. Eccles
George W. G. Sivertz

Owned by

ENERGEX MINERALS LTD.

Work by

ENERGEX MINERALS LTD.

April 15, 1987 Vancouver, British Columbia

Al#5

**GEOLOGICAL MAPPING, TRENCHING,
AND DIAMOND DRILLING ON THE AL 2, 3 and 4 MINERAL CLAIMS
1986**

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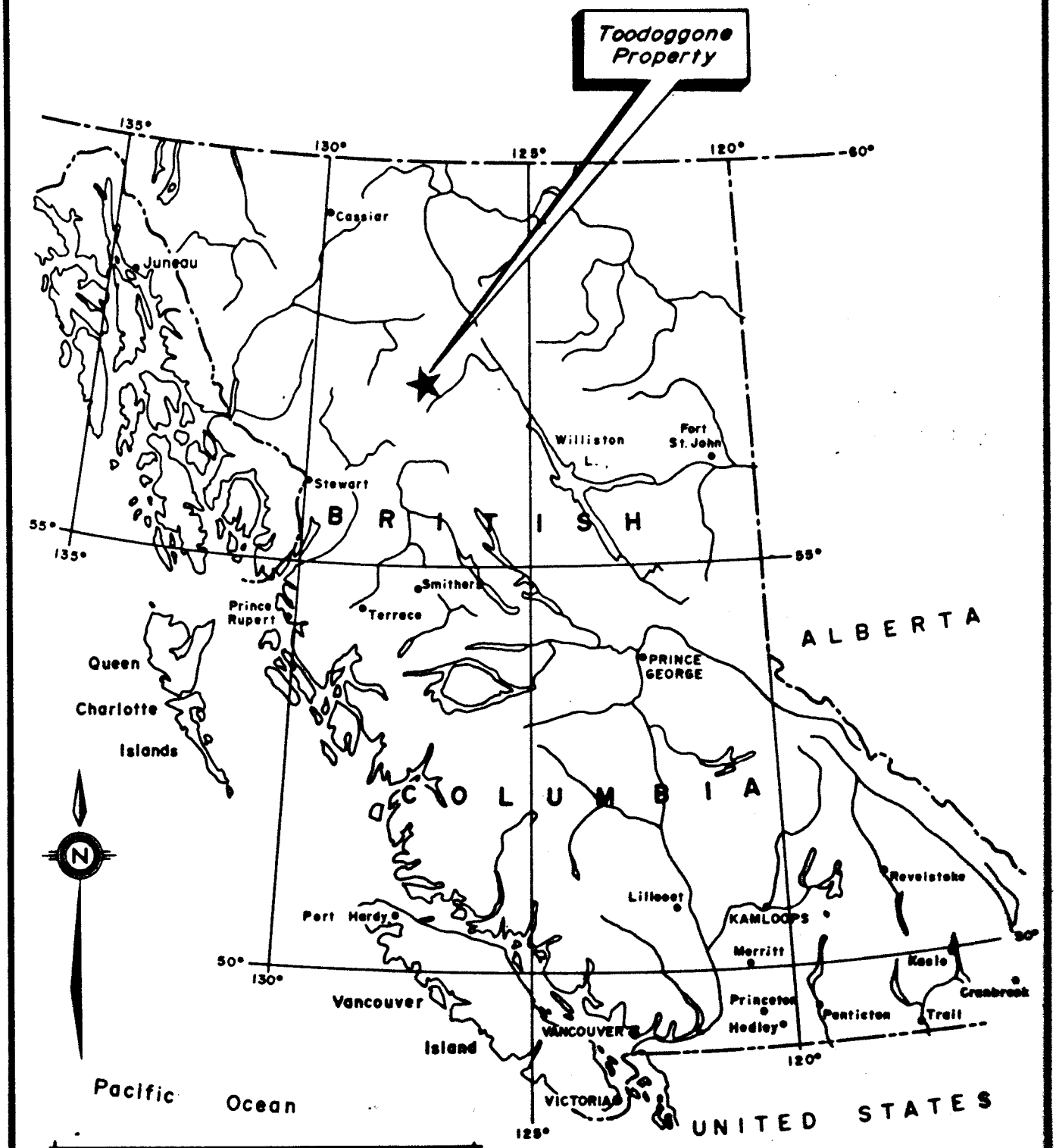
INTRODUCTION

Energex Minerals Ltd. conducted a major exploration program on the 25-claim Al Property in 1986.

This report describes diamond drilling and trenching, trench sampling, and trench mapping of the Bonanza, BV and Thesis III deposits.

This work was conducted from late June to the end of September 1986; for assessment purposes, only work conducted after July 18 on the BV Deposit (Al 3 claim, Hump 86 Group) and after August 13 on the Bonanza and Thesis III Deposits (Al 2 and Al 4 claims, Bonanza 86 Group) is claimed, although the balance of the work is described for the sake of completeness.



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PROPERTY LOCATION MAP

100 0 100 200 300 400 Km.

100 0 100 200 Mi.

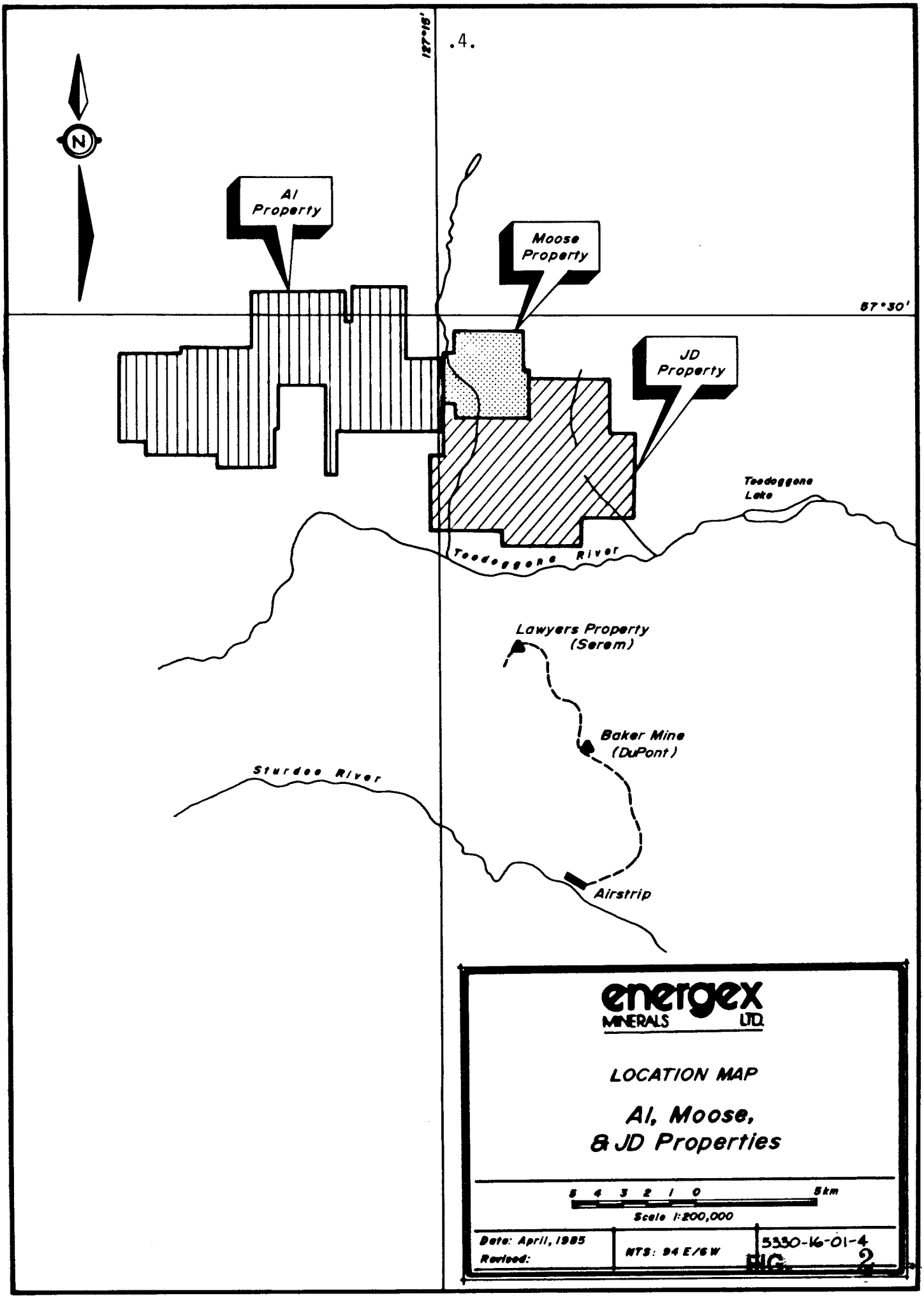
FEB, 1986 | FIG. 5830-16-2

PROPERTY

The Al property consists of 25 contiguous modified grid claims, comprising 292 units and 6 fractions. Refer to Figure 3. A table of claim data follows:

Claim Name	Record #	Record Date	Mining Division	# of Units	Current Group	Expiry Date
*Al 1	789	12Jun79	Liard	20	Hump 86	pending
*Al 2	790	12Jun79	Liard	20	Bonanza86	pending
*Al 3	791	12Jun79	Liard	20	Hump 86	pending
*Al 4	792	12Jun79	Liard	20	Bonanza86	pending
*Al 5	1439	18Jul80	Liard	10	Hump 86	pending
*Al 6	1440	18Jul80	Liard	10	Hump 86	pending
*Al 7	1871	21Apr81	Liard	16	Hump 86	pending
*Al 8	1872	21Apr81	Liard	16	Hump 86	pending
*Bert	2012	13Aug81	Liard	20	Bonanza86	pending
*Ernie	2011	13Aug81	Liard	20	Bonanza86	pending
*Bull	2010	13Aug81	Liard	20	Bonanza86	pending
*Hyuk 1 (fr)	3026	11Jul83	Liard	1	Hump 86	pending
Hyuk 2 (fr)	3027	11Jul83	Liard	1	n/a	1996
*Hyuk 3 (fr)	3028	11Jul83	Liard	1	Hump 86	pending
JO (fr)	4272	08Sep81	Omineca	1	Surprise86	1996
RJ (fr)	4273	08Sep81	Omineca	1	Surprise86	1996
Winkle	4099	13Aug81	Omineca	20	Surprise86	1991
Chute	4100	13Aug81	Omineca	18	Surprise86	1991
Surprise	4098	13Aug81	Omineca	20	Surprise86	1988
Gerome	4097	13Aug81	Omineca	15	Surprise86	1989
Wankle	4095	13Aug81	Omineca	3	Surprise86	1990
Tinkle (fr)	4093	13Aug81	Omineca	1	Surprise86	1989
Was II	6249	29Aug85	Omineca	8	Surprise86	1989
Antoine Louis	4096	13Aug81	Omineca	10	Surprise86	1988

*Subject Claims, this report.



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LOCATION MAP

Al, Moose, & JD Properties

5 4 3 2 1 0 5km

Scale 1:200,000

Date: April, 1985 Revised:	NTS: 94 E/6 W	5330-16-01-4 FIG. 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.

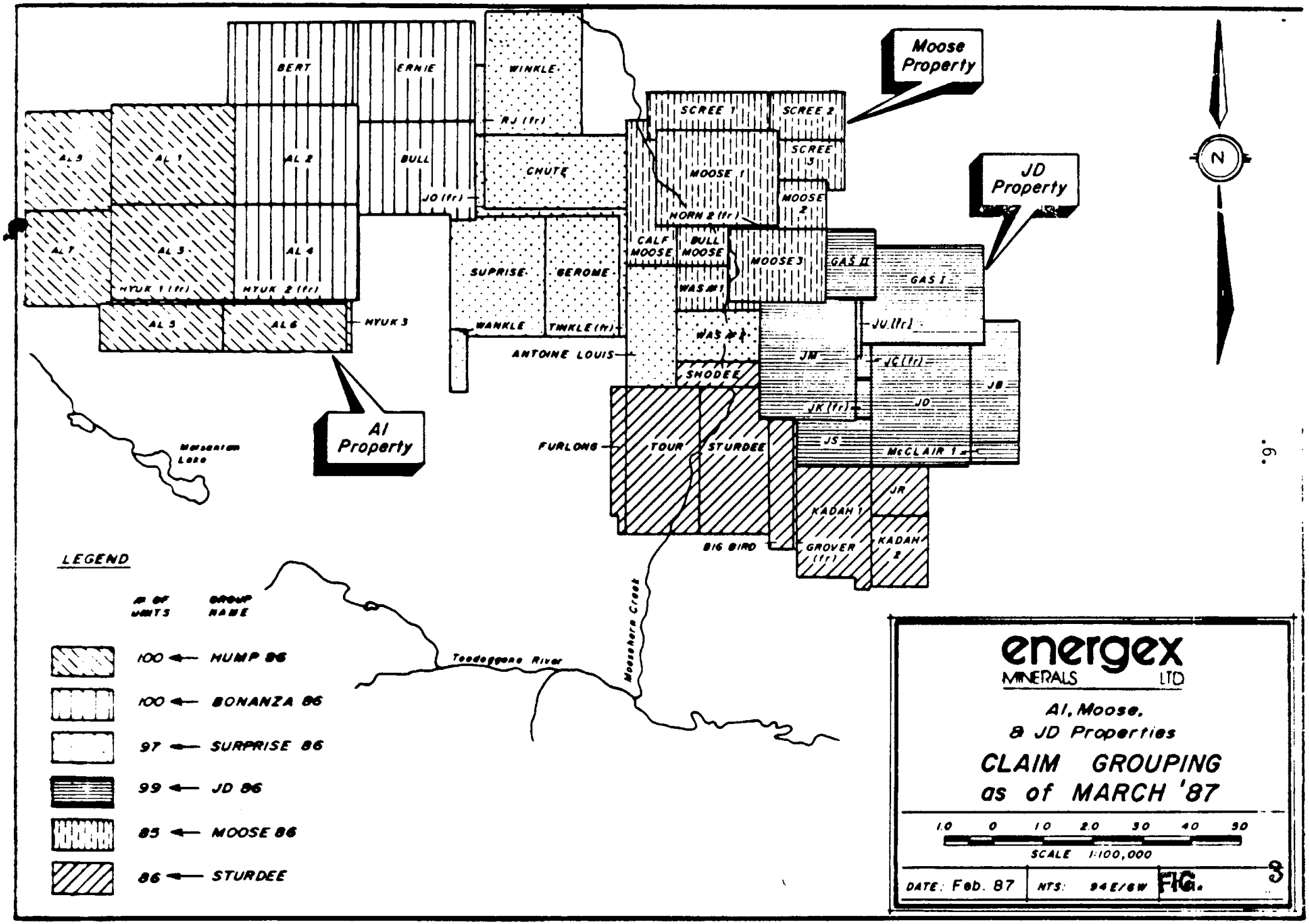
Access to the property is presently by fixed wing aircraft from Smithers and by helicopter from Sturdee strip. A road linking the Toodoggone area (S.E.R.E.M.'s Lawyers deposit) with the present terminus of the Omineca Mining Road is under consideration by the B.C. Government. If this road is completed, 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.


Moose Property
JD Property
Al Property
BERT
ERNIE
WINKLE
RJ (fr)
CHUTE
BULL
JO (fr)
AL 1
AL 2
AL 3
AL 4
AL 5
AL 6
AL 7
HYUK 1 (fr)
HYUK 2 (fr)
HYUK 3
SUPRISE
GEROME
WANKLE
TWKLE (fr)
ANTOINE LOUIS
SCREE 1
SCREE 2
SCREE 3
MOOSE 1
MOOSE 2
MOOSE 3
HORN 2 (fr)
CALF MOOSE
BULL MOOSE
WAS #1
WAS #2
SHODEE
GAS II
GAS I
JU (fr)
JM
JC (fr)
JB
JD
JK (fr)
JS
McCLAIR 1
JR
KADAH 1
KADAH 2
GROVER (fr)
FURLONG
TOUR
STURDEE
BIG BIRD
Mossheim Lake
Toodoggone River
Mossehorn Creek
N
LEGEND
OF UNITS
GROUP NAME
100 ← HUMP 86
100 ← BONANZA 86
97 ← SURPRISE 86
99 ← JD 86
85 ← MOOSE 86
86 ← STURDEE
energex MINERALS LTD
Al, Moose, & JD Properties
CLAIM GROUPING as of MARCH '87
1.0 0 1.0 2.0 3.0 4.0 5.0
SCALE 1:100,000
DATE: Feb. 87
NTS: 94E/6W
FIG. 3

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 T. C. Scott and Petra Gem Explorations of Canada Ltd. and optioned to Energex Minerals Ltd. in 1979. This group was subsequently 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 (Clark and Sutherland, 1983).

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 Al 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.) retains a 15% net profits interest in the properties and a 5% NPI is also retained by the original stakers.

In 1985 Energex Minerals Ltd. undertook 2,613 meters of diamond drilling on the Al and Moose properties together with geophysical surveys, detailed geological mapping, backhoe trenching and prospecting on select areas of the claims.

GEOLOGY AND MINERALIZATION

The Al property is underlain by dominantly andesitic porphyritic volcanic rocks, including flows, tuff and agglomerate. These are of Lower to Middle Jurassic age and have been 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 volcaniclastic and epiclastic rocks.

Four of these units underlie the Al property; these include the basal Addoogatcho Creek Formation, the Moyez Creek Volcaniclastics, the Lawyers-Metsantan Quartzose Andesite and the Tuff Peak Formation. Refer to Figure 4.

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 Volcaniclastic 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.

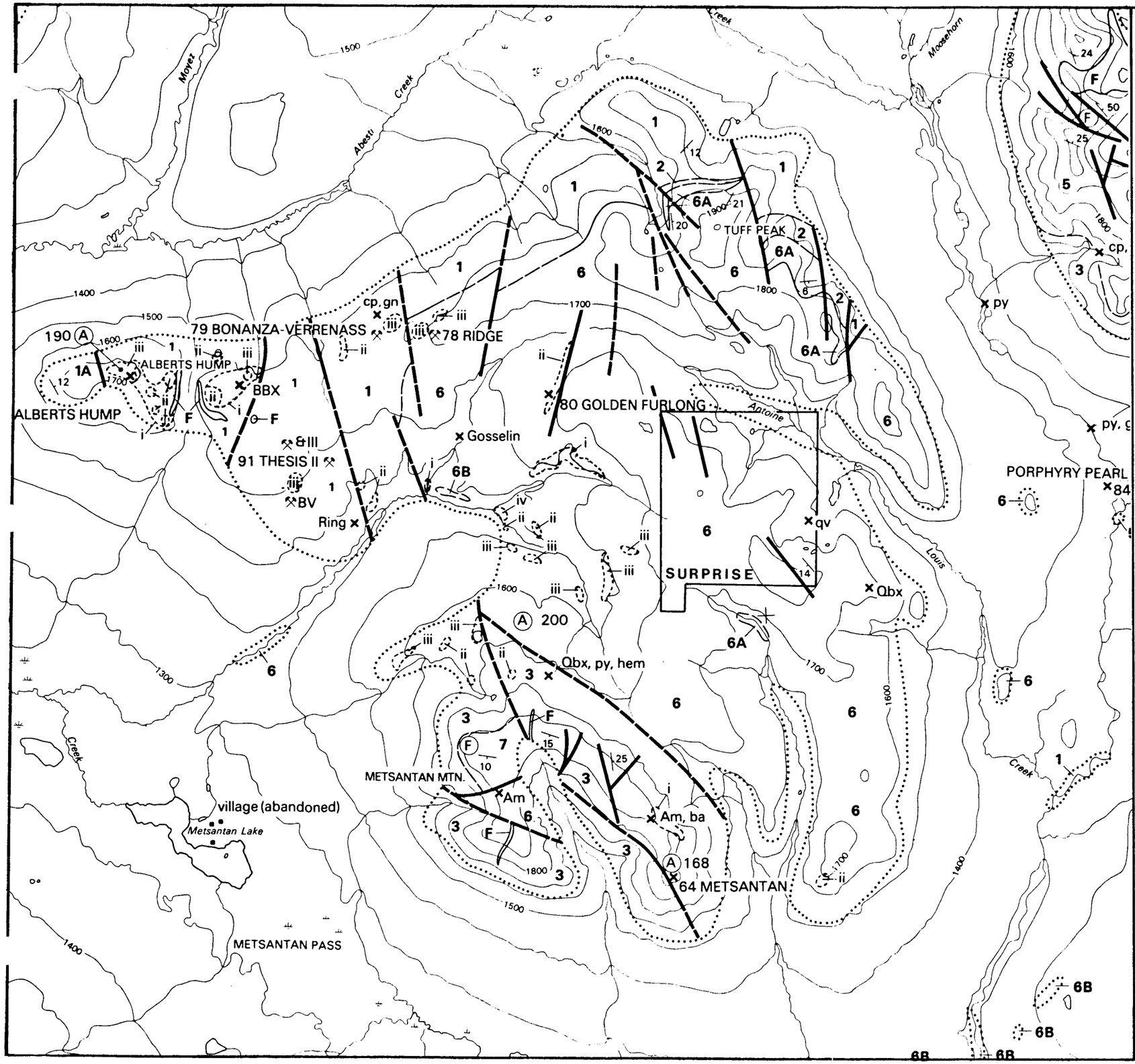
The Tuff Peak Formation (6), consisting of purple, grey and green augite biotite-hornblende plagioclase lava flows with minor crystal/lapilli tuff and subvolcanic sills and plugs, outcrops on the eastern section of the property. This unit in part directly overlies the basal unit and in part is in fault 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 alunitization 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 by 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 oriented northwest to north-northeast. One zone, the BV, is several hundred meters in length and is apparently an imbricated vein-fault system.



LEGEND

TODOGGONE CRYSTAL ASH TUFFS AND FLOWS

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

TUFF PEAK FORMATION

6 PALE PURPLE, GREY, AND GREEN BIOTITE AUGITE HORNBLENDE PLAGIOCLASE PORPHYRY FLOWS, SOME AUTOBRECCIATED FLOWS, MINOR SILLS AND PLUGS. SOME CRYSTAL AND LAPILLI TUFF.

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

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

LAWYERS—METSANTAN QUARTZOSE ANDESITE

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

MOYEZ CREEK VOLCANICLASTICS

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

ADDOOGATCHO CREEK FORMATION

1 PALE REDDISH GREY TO DARK RED-BROWN QUARTZOSE BIOTITE HORNBLENDE PHYRIC ASH FLOWS; THE ROCKS CONTAIN MINOR SANIDINE AND RARE AUGITE. WELDING IS WIDESPREAD AND RANGES FROM INCIPIENT TO EUTAXITIC; LOCALLY ORANGE TO BROWN VITROPHYRIC CLASTS ARE COMMON. INCLUDES LAPILLI TUFF AND BRECCIA UNITS AS WELL AS MINOR LAYERED GROUND SURGE DEPOSITS.

0 1 2 3 4 5 KILOMETRES

Scale 1:50 000

energex MINERALS LTD.

METSANTAN AREA
REGIONAL GEOLOGY

After Diakow, Pantaleyev and Schroeter (1985)

Date: Jan 1987	NTS 94E/6W	Figure: 4
Revised:		

5330-0302-5

1986 WORK PROGRAM

CAMP ENLARGEMENT

A semi-permanent wood frame tent camp, suitable for housing up to 20 personnel was constructed on the Al claims in 1985.

In 1986 the camp was enlarged by increasing the size of the kitchen, dry and storage facilities and adding accomodation tents to house a maximum of 40 people. The core storage facility was increased to hold a maximum of 6,100 meters of HQ core; all 1985 and 1986 core from the Al property is stored in this facility.

The kitchen, dry and camp management office are permanent wood structures with metal roofs, used for storage when the camp is shut down during winter.

A 6 tonne per day pilot plant was erected several hundred meters from the camp area in early August.

DRILLING

A three-phase, 83 hole diamond drill program, contracted to J.T. Thomas Diamond Drilling of Smithers, was designed to test four mineralized areas of the Al property. Phase I, which began in early July, consisted of drilling 3,059 meters of HQ diameter core in the Thesis III (1,365 m.), Thesis II (428 m.), BV (469 m.) and Bonanza (797 m.) areas. Refer to drill logs in Appendix C.

Phase II tested the shallow ore reserves on the Thesis III and Bonanza deposits and amounted to 229 meters of drilling.

Phase III drilling, undertaken during mid to late September, tested shallow ore reserves on the BV and Bonanza South Extension and consisted of 395 meters of drilling. Lack of water during the latter part of September was a serious problem in keeping drill costs low at that time.

All drilling was done utilizing a Longyear Super 38 diamond drill (HQ diameter bits). A D-4 bulldozer moved the drill to each set-up.

The drill equipment was stored on the property at the end of 1985 field season and so mobilization costs were eliminated this year. It is again stored there this winter.

All fuel for the 1986 drill program was flown to the camp area in early May by ski-equipped fixed wing aircraft.

Drill core was sampled within the altered areas of the core at 1 meter or ½ meter intervals, depending on the degree of silicification and barite content. Most core was cut in half with a diamond saw and all was assayed for gold. A total of 2,124 samples was collected from the core.

TRENCHING AND CHANNEL SAMPLING

Backhoe trenching is the cheapest and most effective means of exploring mineralized areas and "prospecting" for mineralization obscured by overburden, along known structures and within geochemically anomalous areas.

Energex purchased, through a "lease to purchase" arrangement, a Case 450 tractor/backhoe from owner/operator, Sherman Jaycox, at the end of the 1986 field season. The machine was flown to Sturdee Airstrip and 'walked' to the property from there in June.

Trenching uncovered extensions to known mineralized structures such as the South Bonanza Extension and also resulted in the discovery of several new weakly mineralized silicified zones.

Over 141 trenches were excavated in 1986 between mid July and mid September which totalled an aggregate length of about 3,900 meters. Average depth and width of trenches were 1½ meters each. Trench logs with sample data appear in Appendix D of this report.

A crew of geologists and samplers was hired to map and sample the trenches. One meter long channel samples weighing up to 10 kilograms each were collected where silicification was encountered, utilizing a moil-tipped, gas driven plugger. Samples were fire assayed for gold.

Grab samples were collected and analysed by geochemical methods where sampled rock was thought to have a lower probability of carrying gold.

A total of 1,440 samples was collected during the trenching program.

The backhoe was also used to strip areas within the Bonanza, BV, and Thesis III zones. The stripped areas were sampled in detail with continuous channel samples in lines spaced at 0.5 to 2.0 meter intervals. The channels were cut using a moil-tipped plugger assisted by a diamond saw. A total of 545 one-meter channel samples was taken.

SURVEYING

A surveyor was hired for the exploration season to accurately locate all 1986 drill holes and trenches with respect to a standardized grid co-ordinate system set up for the Al property.

As well, several "closed traverses" of seven accurately surveyed control points were made for the production of a detailed orthophoto and topographic map covering the areas encompassing the three main deposits of the Al claims.

All 1986 survey data has been stored in computer files and is available for computer plotting. Nikon surveying equipment was rented from Cansel Surveying Equipment Ltd. during the field season. An EDM (electronic distance meter) coupled with a transit was used with a prism target.

PROPERTY GEOLOGY

THESIS III

The Thesis III gold deposit is hosted by a fault-controlled, complex alteration system located on the Al 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 sampling in 1983 returned 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 was discovered in a small silicified outcrop. Backhoe trenching later in 1984, with subsequent diamond drilling in 1984 and 1985, led to the recognition of this important gold deposit. The alteration system hosting the gold deposit comprises at least three distinct "core" zones of intense silicification, separated and surrounded by haloes of intense argillic alteration developed in porphyritic andesite. Refer to Figures 19A to 19I. The size of the altered zones as a whole is uncertain; relatively unaltered rock is exposed to the northeast and was intersected in the upper sections of two 1986 drill holes. Weakly altered rock also occurs to the west-northwest and to the southeast, but the southwestern-central and northwestern limits have not yet been established. A northwest trending system of faults, forming a zone over 100 meters wide in areas of apparent dilation, appears to control both the Thesis III system and the Thesis II system centered 400 meters to the southeast. Other zones to the northwest, including the Bingo and BBX, are also thought to be genetically related to this fault system.

The Thesis III alteration system has been explored in detail by bulldozer stripping, backhoe trenching, and diamond drilling along 300 meters of strike; the system is at least 100 meters wide near its center point. In plan, the alteration pattern as a whole appears to be roughly elliptical. A central silicified zone, the "A", is flanked by a roughly linear "B" zone to the southwest and a roughly circular to elliptical "C" zone to the northeast. All three zones, at surface, narrow rapidly to linear silicified zones to the northwest; exposure to the southeast is limited by locally heavy

overburden, transported gossan, and steep gullied topography. The internal stucture is very complex; faulting along north, northeast, and southeast trends is evident within the "A" or central zone. Slickensides preserved within the silicified core indicate left-lateral movement, often with a gentle south to southwesterly plunge. Many silica-clay boundaries are clearly fault contacts. The lack of large offsets in the flanking "B" zone suggests that the central "A" zone was the focus of most post-ore structural failure. The apparent concentration of higher gold values, brecciation, and veining in the central zone also suggests that much of the pre- and syn-ore hydrothermal activity and structural disruption was also confined to this section. However, the structure of the relatively poorly exposed "C" zone is also highly complex, and stripping of this zone, with additional drilling, will be required to sort out the geology.

Moderate to high grade gold mineralization is directly associated with barite and is hosted by silicified, brecciated, microfractured rock with a characteristic porous, vuggy texture, the result of leaching of corroded, clay-altered plagioclase phenocrysts. The vugs are commonly partially filled or lined with barite crystals. Some coarse gold, up to 2 mm in diameter, occurs as dendritic or mossy crystals growing on barite or lying on quartz-barite crystal boundaries. Most of the gold, however, is on the order of 10-100 microns in diameter.

On surface, exposed in the 100-meter x 30-meter stripped section of the "A" or central zone, high grade gold occurs in irregularly shaped patches flanked by faults and seamed with small fractures. Sections of the central zone are entirely fault-bounded and have the aspect of "breccia" pipes in that they are comprised of unrotated "blocks" of relatively non-porous, unfractured silica surrounded by very densely fractured rock enclosing seams and blebs of massive barite. The less fractured "blocks" are poorly mineralized with gold or associated barite. See Figure 15.

The surface mineralogy of the gold-mineralized sections of the Thesis III deposit is very simple; the only two minerals present in any large quantities, even locally, are quartz and barite. Gold occurs in amounts up

to 700 ppm over areas up to a meter square, but the overall average is on the order of 10-20 ppm. Trace element analysis of composite millheads from the pilot plant indicates that average elemental abundances are as follows:

Major Oxides			Metals/Trace Elements	
Oxide	%		Element	ppm
Al_2O_3	1.29		As	8.0
CaO	0.03		Hg	0.20
K_2O	0.36		Sb	12.0
MgO	0.06			
Na_2O	-		Cu	18.0
SiO_2	84.93		Pb	22.0
			W	-
			Zn	6.0
Fe_2O_3	1.80			
MnO	0.02		Mo	6.0
P_2O_5	0.02			
TiO_2	0.39		Ag	1.1
			Au	48.85
		(Partial)	Ba	1115.0
			Sr	582.0

In general, the analyses indicate depletion of all major oxides except silica. Iron content is low; only traces of pyrite, hematite, or the limonite group are present at surface. Mercury, arsenic, and antimony are also low. The relatively high strontium content suggests that the barite is a high-strontium variety.

Diamond drilling during the 1986 season focussed entirely on the section of the zone partially drilled in 1985. Refer to Figures 14-17. The first phase, consisting of 1365 meters in 12 holes within a strike length of approximately 110 meters, was intended mainly to test the zone to depth below the 1985 holes.

This phase got off to a difficult start due to bad ground conditions in the central part of the zone; the first and fourth holes were not completed and most of the rods, core barrel, and bit were lost down the hole in each case. Conditions improved somewhat after steeper drilling angles and heavy mud mixtures were implemented but recoveries were below 50% in short sections of all holes except A86-11. The most serious loss was in hole A86-06 where virtually no core was recovered from 62.48 meters to 72.85 meters downhole, within the core of the silicified zone. Sludge samples in the core loss sections were virtually barren of rock material, and were considered almost useless as assay samples.

All holes drilled into the "A" or core zone (A86-01 to 11) encountered typical argillic alteration flanking a silicified core zone, which varies in true width from 7 to 30 meters. The central core zone is quite massive, with little interbanded argillized material, and averages 20 meters in true thickness from surface to about 50 meters depth. From 50 meters to approximately 80 meters down the thickness increases to about 30 meters. A deeper hole, A86-11, intersected silicification with moderate amounts of kaolinized feldspar phenocrysts from 110 to 166 meters true depth. This 30 meter thick section also includes interbanded intervals of strongly altered but identifiable porphyritic lapilli tuff.

Along strike to the northwest and southeast, the thick central silicified mass appears to split at depth into two to three silicified bands, five to seven meters thick, separated by clay and clay-silica bands of roughly equivalent thickness.

The deeper drilling demonstrated a notable increase in pyrite content compared to surface material or shallow drill holes. In general, porosity remains fairly constant at moderate depths, averaging 5% to 10% within strongly silicified zones. Barite content, notwithstanding the increase in pyrite, is locally high, up to 50% of the rock volume. In general, as at surface, gold and barite are associated at depth. Refer to Figures 17 A-I.

Core assays revealed long intersections of low grade gold within silicified rock. All holes in the "A" zone (A86-04 to 11) drilled to moderate depth returned low grade assays, typically 0.5 grams to 1.9 grams gold per tonne, over core lengths of 12 meters to 47 meters.

Within these long low grade sections, holes A86-04, 05, 07, 09, and 10 intersected higher grades ranging from 5.4 grams to 28.75 grams per tonne over core lengths of 0.31 to 0.97 m. The most encouraging intersection was obtained from hole A86-09, where an average of 13.2 grams per tonne gold was obtained over a core length of 2.25 meters at a depth of 72 meters below surface.

A second phase of drilling, including D.D.H. A86-43 to 52 and A86 60 to 65, consisted of short holes drilled at close spacings. These holes were intended to test the shallow sections of the deposit to correlate subsurface geology with the complex surface geology, and to test grade continuity between the 1985 and Phase 1 1986 holes.

The Phase 2 drilling confirmed the continuous nature of the silicified core of the zone at shallow depths and confirmed the highly variable distribution of high grade gold (35 ppm or higher), and its association with barite, noted in earlier holes.

The best results were obtained in the central and southeastern sections of the zone (D.D.H. A86-44, A86-48, A86-60, 61, 62). However, the composite results from drilling throughout the zone during 1984-1986 indicate that high grade gold occurs wherever fracturing and brecciation are locally intense.

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 1,550 meter and 1,620 meter elevations. Late in that field season, Kidd Creek

undertook limited backhoe trenching and diamond drilling along the gold bearing structure. 483 meters of infill drilling in 11 holes was undertaken by Energex in July 1985, and an additional 798.8 meters was drilled in 1986 in 19 holes. Trenching and stripping in 1986 along a highgrade portion of the structure allowed for detailed surface sampling. See Figures 11 and 12.

The BV structure, which remains open along strike in both directions, has been traced for over 600 meters along its northwesterly trend. Average width of mineralized surface exposures is close to 10 meters along a 170 meter long section of the exposed vein structure. On surface in this area the vein width is enhanced by branching and faulting into at least two semi-parallel mineralized zones with a repetitious barite-quartz sequence. Refer to Figures 11 and 12.

A 120-meter long section towards the southeastern end of the BV vein failed to carry significant gold values on surface and so has not yet been drilled. It is not surprising to find discontinuities of this nature in this type of geologic environment and so it is recommended that this area be tested by drilling to check for the probable mineralization at depth.

Drilling indicates the BV mineralization persists to at least 50 meters below surface. The structure appears to be narrowing and the grade diminishing the greater the distance from surface; however, the zone has not been drill tested to a depth where proof of these characteristics is certain. Where tested, the structure is vertical to shallowly dipping in a northerly direction. Refer to Figures 13 A - O.

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 more continuous strike length. The BV zone does not display the lensoidal pervasively argillized and porous silicified zones characteristic of the upper level epithermal deposits such as the Thesis and Bonanza areas. The mineralization and alteration is more confined and directed by the longitudinal fault system hosting the deposit possibly because it represents an epithermal system typically found deeper than the Thesis III and

Bonanza-type near surface deposits. The occurrence of minor galena and chalcopyrite and less pyrite associated with gold mineralization, 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 sinter-like replacements 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.

BONANZA DEPOSIT

The Bonanza structure is a visible, north-south trending lineament of gossans, silicified rocks and mineralized zones extending from the Bonanza deposit on the Al 2 claim to the Manson Creek/Golden Rule "METS" deposit on Metsantan Mountain, a distance of over five kilometers. Branching fault splays striking northwesterly and northeasterly from the main Bonanza structure are evidenced by epithermal rock alteration patterns which are typically elongate, parallel to the structures. Cross-cutting faults give the Bonanza structure a sense of right lateral displacement along strike, and create discontinuities which make surface exploration difficult in areas of heavy overburden. Refer to Figure 5.

Since 1982, the Bonanza structure has been tested by 43 drill holes and numerous trenches. Refer to Figures 6 A-C. Patchy surface mineralization along the structure occurs within irregular elongate zones separated by less altered to fresh, unmineralized rocks. The frequency of occurrence of the high grade areas along the structure on surface is related to the thickness and dip of the flows and the slope of the hillside. The structure, which is steeply to vertically dipping, cuts through gently southwesterly-dipping volcanics at approximate right angles to their strike. Drilling indicates that the alteration intensities in the realm of the

Bonanza fault are specific to individual volcanic horizons which may be flow tops or unconformable beds with differing composition or textural characteristics. Highest grade gold mineralization is associated with vuggy and porous, baritic, silicified rocks which have a 2% to 7% content of copper-rich sulphide.

Early drilling was unsuccessful in tracing surface mineralization to depth because of poor understanding of structure and alteration. Twenty-six holes totalling 922 meters drilled in 1986 tested the Bonanza structure along about 300 meters of strike length, to a depth of 40 meters below surface, and found at least three mineralized horizons which have a 20° to 30° plunge towards the south. The horizons are stacked vertically on top of one another, localized by the Bonanza fault. Refer to Figures 8 A-C; 9 A-K.

Of the mineralized horizons outlined, drilling has indicated that the middle one, which when projected outcrops in the Glory Hole area of the Bonanza structure, is the widest and has the highest grade. The bulk of the high grade reserve calculated for this deposit is from this horizon at depths of 30 to 40 meters below surface. Drill holes 86-54, -55 and -56 returned values of 125.36 grams/tonne over 5 meters, 19.18 grams/tonne over 2.61 meters, and 31.0 grams/tonne over 0.9 meter, and are indicative of typical results that may be encountered by further drilling.

The structural / lithological model incorporating the stacked mineralized horizons is further complicated by vertical veins or shoots which are deposited in dilation features along the main structures or at the intersections of splays or cross-cutting structural features with the main Bonanza fault system. This effect is observable in the South Bonanza area where limited drilling has been done to a depth of 15 meters below surface. See Figures 9 H-K.

In 1986, a multipole IP-Resistivity survey was run over the northern end of the Bonanza structure. This survey was effective in picking out zones of intense silicification along the overburden-covered structure and indicated

possible secondary structures intersecting the Bonanza fault. This form of geophysics is an excellent method for locating silicified structures, but cannot discern mineralized from unmineralized rock.

Backhoe trenching, conducted to uncover the surface expression of the Bonanza structure along strike, is by far the most economical and most effective means of exploring the deposit area. A detailed trenching program, working south from the 'South Bonanza' area towards the Gosselin area, is recommended prior to commencing exploratory drilling along strike. Knowledge of the exact surface location of silicified sections of the structure is important when attempting to drill off 'blind' mineralization at depth.

As well, a multipole IP-Resistivity survey along strike, working south from the limits of the 1986 survey, to pick up evidence of silicification, cross-cutting features and branching faults, would aid in the exploration of the structure and improve the success of the trenching program.

RECOMMENDATIONS

Exploration in 1987 should be geared towards expanding drill indicated probable reserves rather than delineating drill proven ore reserves. The object would be to increase the mineral inventory on a cost-effective basis, in anticipation that underground and surface mine development would be able to confirm the probable ore.

Probable reserves with cut-off grades of over six grams per tonne would be sought along the Bonanza, Thesis and BV structures where high grade mineralization is already known to exist within the areas described in this report. These structures each have strike lengths in excess of several kilometers and it is conceivable that high grade mineralization will be encountered along strike and at depth from the presently known deposits.

Trenching is the least expensive and most effective method of exploring these structures along strike, and it is recommended that extensive work of this nature

be undertaken in 1987. The backhoe which was used last year is now owned by the company and is still on site.

Multipole IP-Resistivity, although a useful tool in exploring for silicified zones, is expensive and would still require follow up by trenching and/or drilling. Such a procedure would be useful in selecting areas where fault splays and cross-cutting faults intersect the main structures and which are believed to be the features localizing the high grade gold mineralization; however, as long as the trench spacing is tight enough, these areas should be encountered during the trenching program.

Drilling on relatively wide spacings (30 meters) along the Bonanza, BV and Thesis structures, to locate ore for future development, appears to be the most cost-effective strategy for exploration on the Al property in 1987.

Increases in precious metals prices and improvements in infrastructure, beginning with construction of the long-awaited O.M.A.R., should make large tonnage, low grade, bulk mineable gold-silver deposits attractive in the intermediate term. For this reason, intensive exploration and development of the apparently low grade Bingo, Bloss, Golden Furlong, JK, Ridge, Ring and Steve's zones should be postponed until adequate high grade reserves are found to allow sustained production on the Al property.

CONCLUSIONS

The three major structures which host the Thesis, BV and Bonanza deposits on the Al property are considered to have the highest potential for future exploration success.

Of the three, the Bonanza structure remains the most intriguing since a degree of continuity of very high grade mineralization is indicated by drill hole and trench information, and this mineralization remains open along strike and has excellent depth potential. A strike length of only 300 meters has been explored along this structure, which may extend for over five kilometers. Patches of alteration with anomalous gold values outcrop along the structure to the south,

while large, untested areas remain hidden beneath a thin cover of glacial till. The Bonanza structure will be the main target during the initial phases of the 1987 exploration program.

The Thesis III and BV deposits have received the most attention since their discovery in 1984. High grade mineralization in both deposits has been tested by extensive backhoe trenching and diamond drilling, and the drill-proven ore reserves from each of these deposits comprise the bulk of the Al property reserves. Further drilling and trenching within the high grade portions of these deposits would be pointless, but exploration will be directed along strike and to depth.

Regional prospecting and geochemistry was marginally successful in 1986, and revealed several new areas of low grade gold mineralization. Those areas which require assessment work will be investigated further in 1987.

APPENDIX A

CERTIFICATES OF QUALIFICATION

CERTIFICATE

I, Louise K. Eccles, of 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.

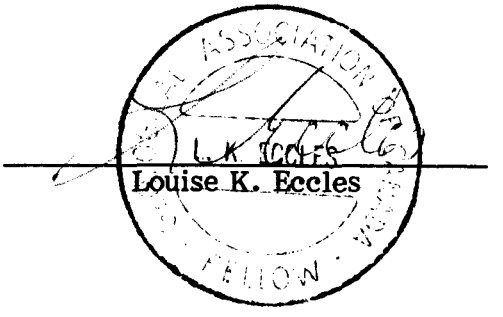
2. I have been continuously employed as a geologist since 1976 working in areas of Western Canada, the United States and Ontario.

3. I am a 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.

5. I am a co-author of this report and supervised the described work program.

DATED at Vancouver, British Columbia, the 21ST day of April, 1987.



Louise K. Eccles

CERTIFICATE

I, Frank B. Gigliotti, residing at Suite 502, 2277 W2nd Avenue, Vancouver, British Columbia, do hereby declare:

1. I am a geologist and have practiced my profession since 1976 working in Canada and the United States;

2. I received a Bachelor of Science degree in Geology from the University of British Columbia in 1975;

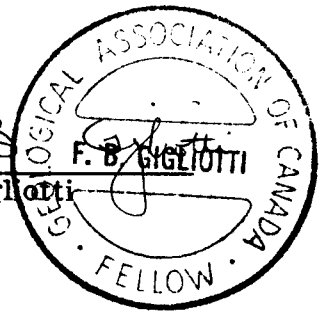
3. I am a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta and a Fellow of the Geological Association of Canada;

4. I have been employed as a consultant and, currently, as an employee, by Energex Minerals Ltd. since June, 1985 as a geologist on the Company's Toodoggone properties;

5. I am a co-author of this report and was directly involved in the 1986 Al property exploration program on a full time basis.

DATED at Vancouver, British Columbia, the 21st day of April, 1987.

Frank B. Gigliotti



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 twelve years;

2. I received a Bachelor of Science (Honours) degree in Geology from the University of British Columbia;

3. I am a member of the Canadian Institute of Mining and Metallurgy and a Fellow of the Geological Association of Canada;

4. I am a co-author of this report and was directly involved in the 1986 Al property exploration program on a full time basis.

DATED at Vancouver, British Columbia, the 21st day of April, 1987.

George W.G. Sivertz

APPENDIX B

EXPENDITURES

Al 3 Claim - Hump - 86 Group
Statement of Expenditures
BV Diamond Drilling - Phase 1
July 19 - 21, 1986

Field Personnel	Man Days	Rate	Total
L. K. Eccles	2	$165	$ 330.00
F. B. Gigliotti	2	125	250.00
M. Say	2	60	120.00
G. Sivertz	2	165	330.00

Food and Accommodation:

18 man days @ $65 (including drillers)		1,170.00

Helicopter/Fixed Wing:

Long Beach Helicopters:		
Invoices 1481-1484 - 7.6 hrs @ $547.40		4,160.24
Central Mtn Air: Apportion 2 days @ $1,481	2,962.00	

Vehicle Rentals:

D-4 Cat (J. T. Thomas)	775.00

Diamond Drilling: 720'

J.T. Thomas Invoice 86-4: DDH 86 17-19	20,584.80

Drill Fuel: 720' x $1.15/ft 828.00

Laboratory Analysis:

CDN Labs Invoices 86223, 86225	409.50

Report Preparation (Apportioned)

L. K. Eccles - 2 days @ $165	330.00
G. Sivertz - 1 day @ $165	165.00
Drafting & Reproduction	500.00
TOTAL	$32,914.54

Al 3 Claim - Hump - 86 Group
Statement of Expenditures
BV Diamond Drilling - Phase 2
September 4-5, September 19-26, 1986

Field Personnel	Man Days	Rate	Total
L. K. Eccles	9	$165	$ 1,485.00
G. Sivertz	9	165	1,485.00
J. Stevens	1	100	100.00

Food and Accommodation:

55 man days @ $65 (including drillers)	3,575.00

Helicopter/Fixed Wing:

Northern Mtn. Helicopters: Invoices 14136, 12853-12861: 8.2 hrs @ $538.50	4,415.70
Central Mtn. Air: Apportion 9 days @ $1,481	13,329.00

Vehicle Rentals:

D-4 Cat (J. T. Thomas)	1,140.00

Diamond Drilling: 1,080'

J.T. Thomas Invoices: 86-12, 13: DDH 86-66, 73-83	31,472.50

Drill Fuel: 1,080' x $1.15/ft 1,242.00

Laboratory Analysis:

CDN Labs Invoices 86300, 86331, 86335, 86337	2,325.50

Report Preparation (Apportioned)

L. K. Eccles - 3 days @ $165	495.00
G. Sivertz - 1 day @ $165	165.00
Drafting & Reproduction	2,000.00
TOTAL	$63,229.70

Al 3 Claim - Hump - 86 Group
Statement of Expenditures
BV Trenching
August 13-18, September 6-13, 1986

Field Personnel	Man Days	Rate	Total
H. Awmack	10	$125	$ 1,250.00
J. Black	6	100	600.00
K. Brown	1	80	80.00
I. Campbell	2	150	300.00
S. Davies	1	65	65.00
L. K. Eccles	9	165	1,485.00
L. Louie	6	125	750.00
C. Nichol	3	65	195.00
M. Say	3	60	180.00
F.Sivertz	1	80	80.00
G. Sivertz	2	165	330.00
J. Stevens	2	100	200.00

Food and Accommodation:

80 man days x $65 (including support crew)	5,200.00

Helicopter/Fixed Wing:

Long Beach Helicopters: Invoices 1283-1286; 7.2 hrs @ $547.40	3,941.28
Northern Mtn Helicopters: Invoices 14152-14167 2.95 hrs @ $538.50	1,588.58
Central Mtn Air: Apportion 10 days @ $1,481/day	14,810.00

Backhoe:

Jaycox Industries Ltd.: 7.85 days @ $560/day	4,396.00

Laboratory Analysis:

CDN Labs Invoices 86271, 86272, 86277, 86304, 86318	5,141.00

Report Preparation (Apportioned)

L. K. Eccles - 3 days @ $165	495.00
G. Sivertz - 1 day @ $165	165.00
Drafting & Reproduction	1,000.00
TOTAL	$42,251.86

Including:

Physical Work (trenching)	$ 4,396.00
Geological Work	37,855.86
	$42,251.86

Al 2, 4 Claims - Bonanza 86 Group
Statement of Expenditures
Bonanza Trenching
August 22 - 31, 1986

Field Personnel	Man Days	Rate	Total
H. Awmack	3.5	$125	$ 437.50
J. Black	10	100	1,000.00
S. Davies	3	65	195.00
L. K. Eccles	3.5	165	577.50
L. Louie	10	125	1,250.00
F. Sivertz	9	80	20.00
J. Stevens	2	100	200.00

Food and Accommodation:

48 md @ $65/day (including support crew)	3,140.00

Helicopter/Fixed Wing:

Long Beach Helicopters: Invoices 1289-1296; 3.9 hrs @ $547.40	2,134.86
Central Mtn Air: Apportion 9 days x $1481	13,329.00

Backhoe:

Jaycox Industries Ltd.: 7 days @ $560/day	3,920.00

Laboratory Analysis:

CDN Labs Invoices 86279, 86285, 86296, 86331	1,508.75

Report Preparation (Apportioned)

L. K. Eccles - 3 days @ $165	495.00
G. Sivertz- 1 day @ $165	165.00
Drafting & Reproduction	2,000.00
TOTAL	$31,072.61

Including:

Physical Work (Trenching & Board)	$ 4,375.00
Geological Work	26,697.61
	$31,072.61

Al 2, 4 Claims - Bonanza 86 Group
Statement of Expenditures
Bonanza Diamond Drilling
August 22 - 31, 1986

Field Personnel	Man Days	Rate	Total
L. K. Eccles	4	$165	$ 660.00
Food and Accommodation:			
24 man days @ $65 (including drillers)			1,560.00
Helicopter/Fixed Wing:			
Long Beach Helicopters: Invoices 14114, 14173, 14182, 14189: 3.1 hrs x $538.50			2,080.12
Northern Mtn. Helicopters: Invoice 1297: 3.8 hrs @ $547.40			1,669.35
Central Mtn. Air: Apportion 4 days @ $1,481			5,924.00
Diamond Drilling: 460': DDH 86-57-59, 86-67-72			
J. T. Thomas: Invoice 86-12: 155'			5,113.45
J. T. Thomas: Invoice 86-13: 305'			8,774.85
Drill Fuel:			
460' x $1.15/ft			529.00
Laboratory Analysis:			
CDN Labs Invoices 86285, 86296, 86323, 86331			933.00
Report Preparation (Apportioned)			
L. K. Eccles - 5 days @ $165			825.00
Drafting & Reproduction			2,125.00
TOTAL			$30,193.77

Al 2, 4 Claims - Bonanza 86 Group
Statement of Expenditures
Thesis III Diamond Drilling
September 1-4, 1986

Field Personnel	Man Days	Rate	Total
L. K. Eccles	4	$165	$ 660.00
G. Sivertz	4	165	660.00
Food and Accommodation:			
24 man days @ $65 (including drillers)			1,560.00
Helicopter/Fixed Wing:			
Northern Mtn. Helicopters: Invoice 14126: 0.5 hrs x $538.50			269.25
Central Mtn Air: Apportion 4 days @ $1481			5,924.00
Diamond Drilling: 500'			
J. T. Thomas Invoice 86-12: DDH 86-60-65			16,495.00
Drill Fuel:			
500' x $1.15/ft			575.00
Laboratory Analysis:			
CDN Labs Invoices 86296, 86300			1,071.50
Report Preparation (Apportioned)			
G. Sivertz - 5 days @ $165			825.00
Drafting & Reproduction			2,250.00
TOTAL			$30,289.75

Total Expenditures

Al 3 Claim - Hump 86 Group

BV Diamond Drilling - Phase 1	$ 32,914.54
BV Diamond Drilling - Phase 2	63,229.70
BV Trenching	42,251.86
TOTAL	$ 138,396.10

Al 2 and 4 Claims - Bonanza 86 Group

Al 2 Claim - Bonanza Drilling	$ 30,193.77
Al 2 Claim - Bonanza Trenching	31,072.61
Al 4 Claim - Thesis III Drilling	30,289.75
TOTAL	$ 91,556.13

Footnotes

1. Food and Accommodation: Based on average camp costs of $1,952.78 per day and a 30-man crew.

2. Fixed-Wing: Includes mob/demob costs.

3. Drill Fuel: Direct total costs of $13,914.00 for a 12,080 foot (3,682.9 m) program.

4. Drilling costs reported in Imperial units, per invoices.

5. Expenditures on the Al 3 Claim include:

Physical Work (backhoe trenching)	$ 4,396.00
Drilling, geolgical Work	134,000.10
Total	$ 138,396.10

6. Expenditures on the Al 2, 4 Claims include:

Physical Work (trenching & operator room & board)	$ 4,375.00
Drilling, geological work	87,181.13
Total	$ 91,556.13

APPENDIX C

DRILL LOGS

Chevron MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: BV
HOLE NO: A-86-17	
LOCATION: NORTHING 29339.21 N; EASTING 17652.47 E	
LOGGED BY: GIGLIOTTI	
DATE: JULY 20	
CONTRACTOR: THOMAS	
CORE SIZE: HQ	
DATE STARTED: JULY 19	
DATE COMPLETED: JULY 20	
DIP TESTS: ACID TEST 67° corrected to 61.3°	

GROUND ELEV: 1607.4	
BEARING: 200	
DIP: -45°	
TOTAL LENGTH: FEET 305'	METERS 92.96
HORIZONTAL PROJECT:	
VERTICAL PROJECT:	

ALTERATION SCALE

- A_3 — VERY SLIGHT PROPYLITIC
- A_2 — INTENSE CLAY ALTERATION
- A_5 — INTENSE SILICIFICATION ± BARITE
- A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE
- A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

- M — MASSIVE
- F.G. — FINE GRAINED
- — BRECCIATED
- P. — PORPHYRITIC
- — GUMBO (FAULT GOUGE)
- — PEBBLY - BROKEN CORE

SULFIDES / MINERAL ABBREVIATIONS

- PY — PYRITE
- CPY — CHALCOPYRITE
- GA — GALENA
- SP — SPHALERITE
- BA — BARITE
- CA — CALCITE
- QV — QUARTZ VEIN
- QTZ — QUARTZ
- VG — VISIBLE GOLD
- TA — TALC
- LI — LIMONITE

Printed in Canada

PAGE 1 OF 2 | PROJECT: AL BV. | HOLE NO. A8617

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION
0 – 4.57							Casing
4.57	100				A3	P	gouge frac. ē prop., 45°
							gouge frac ē prop. 55°-60°
16.76 (SS)	74					·····	2-3% calct. veins + clots throughout.
18.29	100						
19.81	90					···	
21.34	100						
23.38 (BH)	100				A3	P	
30.48	100						core broken.
38.1	92						
39.62							
41.14	100						v.f.g. clast 10-12 cm across, boundary inundated by Andesite, cut by calct [illegible] (not silicified).
42.67					A3	P	43.00
					A2		43.18
	100				A6/A2	P	43.75
					A6/A2	P	44.17
44.35						•Δ••	
	88		0.5	12 py	A5/A7/2	Δ	some vesicular porosity here, porosity elsewhere = fracture porosity.
		—	7/2	~A7		Δ	
							45.55 – 45.68: A6/A2, P
							45.68 – 45.80: A2/A5/A6/A7, bx
							45.80 – 45.92: A2 gouge
					A3		45.92 – 46.17: A3 ē A2 gouge fracs @75-85°.
							← 46.94m: frac, some prop., 50°
	100				A3	P	calcite as above, 2-3%
							← 52.43. crystalline calct. in fracs, 65°, 80°
60							

SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au g/t			
42.67	43.00		18004	0			
43.00	43.18		18005	0.10			
43.18	43.68		18006	0.10			
43.68	44.20		18007	0.05			
44.20	44.70		18008	1.20			
44.70	45.20		18009	0.25			
45.20	45.68		18010	0.40			
45.68	45.92		18011	0.55			
45.92	46.71		18012	0			

PAGE 2 OF 2	PROJECT: Az Bu	HOLE NO. A8617

DEPTH (m)		% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS				
								67.36 / 68.28 Lapilli tuff bx. — incipient breccia.									
								← 73.76 prop. in fracs: 30°, 70°-75°									
								calcite veins throughout (2-3%), some crystalline.									
83.82					A3	P		incip. bx									
86.87						A2/3, A3	Δ	87.03 – 87.14 ← 5/7 clasts in 2/3 gouge. 45° to C.A	86.87	87.77		18013	0.1				
						A2/3	Δ	87.36 ← clasts of A5 + A6 @ base	87.77	88.31	.54	18014	3.2				
						A5/6/7	Δ	87.77 ← 50° clasts of silicified material, clay interstices + clay alt. fspr.	88.31	88.90	.59	18015	0.95				
88.39			-	2-3	0-1 [unclear]	A2	Δ	88.31 py. fracs. surround some grains; Porosity: fracture porosity	88.90	89.44		18016	0				
						A2	Δ	somewhat silic. in places; A3 band near base; ± hematite									
						A3	Δ	88.90 ← 50°; 88.98									
89.92						A3	P	hematite fracs common. calcite 2-3% veins + patches.									
91.44																	
92.96								92.96 m, 306 ft. E.O.H.									

Energex
MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: BV
HOLE NO.: A-86-18	GROUND ELEV: 1596.1 m
LOCATION	BEARING: 020°
NORTHING: 29273.99 N	DIP: -45°
EASTING: 17535.96 E	TOTAL LENGTH: FEET 195' / METERS 59.44
LOGGED BY: GIGLIOTTI	HORIZONTAL PROJECT
DATE: JULY 21/86	VERTICAL PROJECT
CONTRACTOR: THOMAS	
CORE SIZE: HQ	
DATE STARTED: JULY 20	
DATE COMPLETED: JULY 20	
DIP TESTS: ACID ETCH @ 153 REEDS: 53°	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

18017 - 18026 - 10 Samples

LEGEND

TEXTURE:

M — MASSIVE
F.G. — FINE GRAINED
— BRECCIATED
P. — PORPHYRITIC
— GUMBO (FAULT GOUGE)
— PEBBLY - BROKEN CORE

SULFIDES / MINERAL ABBREVIATIONS

PY — PYRITE
CPY — CHALCOPYRITE
GA — GALENA
SP — SPHALERITE
BA — BARITE
CA — CALCITE
QV — QUARTZ VEIN
QTZ — QUARTZ
VG — VISIBLE GOLD
TA — TALC
LI — LIMONITE

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PAGE 1 OF 1	PROJECT: AL BV	HOLE NO. A8618

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION
0 – 5.79	39						5.79
5.79 – 20	100 → 95				A3	P	calcite veins + patches 1-3%
20 – 27.74	100						– calcite bnoten (vein) in andesite bx.
27.74 (91)							box 6 / box 7 — 25% calcite.
30 – 44.20	100				A3	P	box 8 / box 9 — calcite up to 15-20% in fracs + patches. forms matrix to andesite bx in places. Fe-stained fracs common. box 10 / box 11 — gouge frac, 12°, ½-1cm wide @ 42.1m. (microcrystalline hematite in feldspars)
44.20 (145') – 53.34	100				A3	P	calcit in some veins + frequent patches 3-7%. portions incip. frac + hematite.
53.34 – 54.86	95				A5 / A5/A6/A2		53.34 / 53.57 — varying contact (undulates) some A2. Variably silicified clasts in clayey matrix, pop. altn.
54.86 – 56.39	100				A5/A6		55.1 — Variably silicified clasts, A2 matrix (predom clast supported). 56.16
56.39 – 57.91	100				A5/A6; A6/A2; A2		large clasts of cherty A5 (up to 13cm), some A6, clay alt type (A2), clay in matrix. 57.19 — 57.44 — clasts in hematitic A2 matrix (A5 pop, mn A6/A2). 57.53 — basal 7cm = A6/A2. A2 upper 2cm hematitic. Zone is 47° to C A.
57.91 – 59.44	100				A3	P	bleached core @ 58.07m. 59.44 E.O.H. 195'

SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	Au g/t
53.03	53.57		18017	0
53.57	54.07		18018	0.05
54.07	54.57		18019	0.75
54.57	55.10		18020	0.10
55.10	55.60		18021	0.05
55.60	56.10		18022	0.35
56.10	56.60		18023	0.10
56.60	57.10		18024	0.20
57.10	57.44		18025	0.05
57.44	57.91		18026	0

MINERALS LTD

DRILL LOG

PROJECT: NL	ZONE: BV
HOLE NO.: AB619	GROUND ELEV.: 1602.9
LOCATION: NORTHING 29297.22 N; EASTING 17476.78	BEARING: 020°
	DIP: -45°
	TOTAL LENGTH: FEET 220 / METERS 67.05
LOGGED BY: GIGLIOTTI	HORIZONTAL PROJECT:
DATE: JULY 21/86	VERTICAL PROJECT:
CONTRACTOR: J.T. Thomas	
CORE SIZE: H.Q.	
DATE STARTED: JULY 20	
DATE COMPLETED: JULY 21	
DIP TESTS: ACID ETCH:	

ALTERATION SCALE

- A_3 — VERY SLIGHT PROPYLITIC
- A_2 — INTENSE CLAY ALTERATION
- A_5 — INTENSE SILICIFICATION ± BARITE
- A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE
- A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

- M — MASSIVE
- F.G. — FINE GRAINED
- △△ — BRECCIATED
- P. — PORPHYRITIC
- — GUMBO (FAULT GOUGE)
- — PEBBLY - BROKEN CORE

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- LI — LIMONITE

Printed in Canada

PAGE 1 OF 2 | PROJECT: AC BV | HOLE NO. A8619

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Ag
0							casing					
							3.3m					
7.6m/5'	100											
10	100						calcite veins + patches 1-2%					
	91				A3	P						
	98											
	89											
20	100											
30												
30.48/100								30.48	30.99		19027	0
	100				A2	P Δ	30.88	30.99	31.80		19028	0.05
							31.55	31.80	32.34		19029	0
					A3/A5		31.80 — some A3, some slightly silicic areas.	32.34	32.84		19030	0
32.31/105					A3/A2		32.03	32.84	33.34		19031	0.05
							32.26-32°					
							32.26-33.34 A2 grey & A5+A6 flags	33.34	33.84		19032	0.05
	94				A5/A6/ A2	P	incip bx dickite in ex-fspr & base.	33.84	34.55		19033	0
33.53/110								34.55	35.82		19034	0
	100						34.55	35.82	36.58		19035	0
35												
35.05/115					A3/A2	incip bx	fspr → dickite, somewhat silicified in places					
	92					incip bx	35.82 - minor silic					
38.58/126					A3					incip bx		
37												
	Overall recovery over this zone is						← Fe stained frags, fspr → clay, mn. stain ⇒ fract @ ±10°					
							fracs = Fe stain common.					
47							core somewhat broken throughout.					
	85-95 %				A3	P	← grey frags 1cm to 2cm @ top & 5cm A3 bx in prof, core above bx is calcite veins + patches throughout 1-3% overall.	altered pink = dickite, frac ± CA = 20°				
57							occasional areas of pink-bleached alteration with green frags (dickite)					
										incip bx		
60												

PAGE 2 OF 2 | PROJECT: AL BV | HOLE NO. A8619

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au
60												
61					A3 ↓	vein bx. P ↓	61.71	61.21	61.71		19036	0
62	62.49/2.5				A2	M	becoming somewhat silicic towards bx., pop., hem. fair.	61.71	62.78		19037	0
63		96			A3/A5/A6	Δ	62.78 clay matrix (± gap)., <1% pg in A7.	62.78	63.28	.5	19038	2.70
64	64.01/2.5					mbm		63.28	63.78	.5	19039	2.65
								63.78	64.27		19040	0.55
					A2+ A5/A6	Δ	64.27 clasts ± A3/A2; A5; A6, A4 in pop. A2.	64.27	64.96		19041	0.25
65		100					64.98 ~ 45°	64.98	65.53		19042	0.05
	65.53/2.5				↑	↑						
66					A3 ↓	P ↓	clasts ± fine grained A2.					
67							69 ~~cm~~ 220' E.O.H.					

2.72 P.

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DRILL LOG

PROJECT: AL	ZONE: VERRENASS
HOLE NO: A-86-57	GROUND ELEV: 1697.3
LOCATION: NORTHING 31257.59, EASTING 19441.16	BEARING: 255°
LOGGED BY: L. ECCLES	DIP: -45
DATE: AUG. 31/86	TOTAL LENGTH: FEET, 60 / METERS 18.29
CONTRACTOR: THOMAS	HORIZONTAL PROJECT: 12.93
CORE SIZE: HQ	VERTICAL PROJECT:
DATE STARTED: AUG 30/86	
DATE COMPLETED: AUG. 31/86	
DIP TESTS: NO	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

HAD TROUBLES WITH CORE RECOVERY

HAD PROBLEMS GETTING STARTED — WATERHOLE HAD TO BE DUG OUT → everything is digging out

— Drill was "high graded" since the last drilling - had to chase around getting parts (in Thomas's chopper).

— TOOK ALL NITE TO DRill 60'

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

△△ — BRECCIATED

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— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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PAGE 1 OF 1 | PROJECT: VERRENASS | HOLE NO. A-86-57

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
							CASING TO					
5							HERE ↙					
4.7	20	0	1%	1% Py	A_3A_2	P.	Pinkish - purple porphyritic & Fragmental					
8.23	50					Frago						
9.45	95					Broken Zone	← 10.43 end of surface oxidation					
10							← 10.7					
11.28	90	2%	7%	3% (more in some fractures)	A_3A_2 A_3	Vesicular Broken core	Greyish pink - fluctuates between A_3A_2 + pure A_3	10.7	11.28		18962	1.60
	80							11.28	11.78		18963	2.00
								11.78	12.28		18964	3.05
								12.28	12.80		18965	2.40
12.80		Tr	1%	0	A_2A_5	P	12.5 12.8 Grey	12.80	13.41		18966	4.0
13.41	30	1%	3%	0	A_5A_2	Broken core	Fragg	13.41	14.32		18967	1.45
14.32	50						14.32	14.32	15.85		18968	4.25
	75				A_2A_5	P	Pinkish hue	15.85	17.37		18969	5.60
15								17.37	18.29		18970	1.60
15.85		2%	10%	2% Py minor Cpy	A_5A_3	Vesicular Broken core	— blotches of specular hematite,					
	60											
17.37							17.37					
18.29	10	0	0	Tr 1%	A_5 A_2	Broken core	start E.O.H. 18.29m = 60 FT					
20												

Energex
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DRILL LOG

PROJECT: AL	ZONE: VERRENASS
HOLE NO.: A-86-58	GROUND ELEV: 1698.0
LOCATION: NORTHING 31265.36, EASTING 19434.63	BEARING: 240°
	DIP: -45
	TOTAL LENGTH: FEET 55' / METERS 16.76
LOGGED BY: L. ECCLES	HORIZONTAL PROJECT: 11.85
DATE: AUG. 31/86	VERTICAL PROJECT:
CONTRACTOR: THOMAS	
CORE SIZE: HQ	
DATE STARTED: AUG. 31/86	
DATE COMPLETED: AUG 31/86	
DIP TESTS: No	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

 — BRECCIATED

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LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: VERRENNES | HOLE NO. A-86-58

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS	
0													
1.5	50	1%		1%	A_2A_3 +As (limp)	P + Frag	CASING TO HERE Pink colour - Frag elongated @ 30° to core						
3.04	100												
4.57													
5	90												
5.79							← end of Surface oxidation	5.79	6.29		18971	30.21	
	70	up to 3%	1%	2% py	A_1	Broken core	← VG in cleaved & fractured Chert @ 30° to c.a. Grey	6.29	6.79		18972	1.75	
						Δ Aggl Δ		6.79	7.29		18973	1.55	
7.46								7.29	7.79		18974	2.55	
								7.79	8.29		18975	5.2	
	100	3% in patches	1%	up to 20% in patches	A_1 A_2 minor A_2	P	Pinkish - grey	8.29	8.99		18976	8.55	
9.09	100							8.99	9.5		18977	0.25	
								9.5	10.0		18978	1.75	
								10.0	10.51		18979	3.35	
10		up to 20% in patches	up to 5%	up to 20% in patches	A_1	P	10.1						
10.51						vesicular	← 10.1 7cm wide cse xstalline Ba vein - VG at bottom	10.51	11.0		18980	27.40	
	100						11.7	11.0	11.5		18981	3.45	
12.04								11.5	12.04		18982	0.55	
12.49	50	1%	1%	5%	A_2A_3	Broken core		12.04	12.49		18983	0.15	
							12.45	12.49	13.9		18984	0.55	
13.71	70	0	0	0	A_2								
							13.9 - Fault @ 45° to c.a. - white qtz vein Δ						
	80	0	0	0	A_3	P	Rumbo Purple						
15													
15.24	70					P							
16.76							E.O.H. 16.76m						
20													

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DRILL LOG

PROJECT: AL	ZONE: VERRENASS
HOLE NO: A-86-59	GROUND ELEV: 1698.7
LOCATION: NORTHING 31273.06, EASTING 19429.52	BEARING: 240°
LOGGED BY: L. ECCLES	DIP: -45
DATE: SEPT. 1 '86	TOTAL LENGTH: FEET 40, METERS 12.19
CONTRACTOR: THOMAS	HORIZONTAL PROJECT: 8.62
CORE SIZE: HQ	VERTICAL PROJECT:
DATE STARTED: AUG. 31	
DATE COMPLETED: AUG 31	
DIP TESTS: NO	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

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PAGE 1 OF 1 | PROJECT: VERRENASS | HOLE NO. A-86-59

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS	
0													
2.44							2.44 CASING TO HERE						
3.05	40					Broken Core							
	60				A_2A_3	P	Pinkish hue						
4.87								4.87	5.79		18985	2.0	
5	80						5.49						
5.79			0		As	Δ Δ Δ	chalky, cemented (fracturing but re-healed) 6.13	5.79	6.29	0.5	18986	4.65	
	100	2%	10-15%	1%	A_3	P	← 6.7 Vein	6.29	6.79	0.5	18987	8.15	
						+ Frags	Frags elongated @ 35° to Core	6.79	7.29	0.5	18988	7487	Vein —
7.31								7.29	7.79	0.5	18989	4751	—
	100						7.79	7.79	8.79	1.0	18990	0.25	
8.99					A_2A_3		Pinkish						
						P	8.95 - all fract @ 30° to core						
10					I_3								
					A_2A_3		12.19 E.O.H						
15													
20													

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DRILL LOG

PROJECT: AL	ZONE: THESIS III
HOLE NO.: A-86-60	
LOCATION: NORTHING 30061.76 / EASTING 18065.64	
LOGGED BY: L. ECCLES	
DATE: Sept. 1	
CONTRACTOR: THOMAS	
CORE SIZE:	
DATE STARTED: SEPT. 1	
DATE COMPLETED: Sept. 1	
DIP TESTS: No	

GROUND ELEV: 1644.0	
BEARING: 244°	
DIP: -45°	
TOTAL LENGTH: FEET 109'	METERS 33.22
HORIZONTAL PROJECT:	
VERTICAL PROJECT:	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

TRICONED TO 45'

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

△△ — BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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PAGE 1 OF 1 | PROJECT: THESIS III | HOLE NO. A-86-60

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
10												
15.71	70				A2	P	TRI-CONED TO HERE ↓ (45') = 15.71m					
15	95											
15.24												
16.76	90											
18.29	100											
19.81		2%	5-7%	5% Py	A7	vesicular	19.97 ← 19.9 2cm wide white Qtz vein @ 45° to core	19.07	19.97		15991	1.45
20							- Dark grey	19.47	19.97		15992	4.65
21.33	90							19.97	20.47		18993	4.15
	90			up to 8% 10% Py		Banded Lava	← 21.55 — 20cm of Ba 85%	20.47	20.97		18994	1.6
								20.97	21.47		18995	1.75
								21.47	21.77	0.5	15996	3.35
22.86	80	2%	2%	3% Py minor Cpy	A7		chalcy - reheated crackle zone	21.97	22.86	0.89	18997	14.50
							Qtz rivulets (minor)	22.86	23.36	0.5	15998	6.95
								23.36	24.39	1.02	18999	3.45
								24.39	24.89		19000	2.25
25								24.89	25.38		23001	2.25
25.91	95	10%	5%	up to 10% Py	A7		25.59 Ba 90%	25.38	25.88		23002	1.45
								25.88	26.38		23003	20.75
								26.38	26.88		23004	1.45
27.43						Banded lava		26.88	27.93		23005	2.25
								27.93	28.34		23006	0.80
								28.34	28.95		23007	2.80
	60						28.45	28.95	29.45		23008	0.95
28.96			7%	5%	A2	vesicular		29.45	29.95		23009	1.05
								29.95	30.45		23010	2.0
	100						V(x)y	30.45	30.95		23011	16.80
30												√ √
30.52	100						← Sulph V(x)y - 2 narrow (1cm) coarse grain Ba veins @ 30° to core w/ Py	30.95	31.45		23012	1.45
	100							31.45	31.95		23013	1.35
								31.95	32.45		23014	1.45
32.77								32.45	32.95		23015	1.20
	90						- rock "fabric" at 45° to core (weathered out elongate flags	32.95	33.22		23016	1.20
33.22							E.O.H. 33.22m 109'					

MADE IN VANCOUVER, CANADA

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DRILL LOG

PROJECT: AL	ZONE: THESIS III
HOLE NO: A-86-61	GROUND ELEV.: 1644.5
LOCATION: NORTHING 30069.10, EASTING 18059.00	BEARING: 247°
	DIP: -45
	TOTAL LENGTH: FEET 102', METERS 31.09 m
LOGGED BY: L. ECCLES	HORIZONTAL PROJECT:
DATE: Sept. 2	VERTICAL PROJECT:
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: Sept. 1	
DATE COMPLETED: Sept 2	
DIP TESTS: No	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

Nite shift drilled 20' total & triconed to 45' instead of 30' as instructed.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

△△ — BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: THESIS III | HOLE NO. A-86-61

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
10							TRI CONED TO HERE ↓ 13.71m 45'					
13.71		3%	up to 7%	up to 5%	A7	Vesicular		14.8	15.3	.5	23017	9.35
								15.3	15.8	.5	23018	3.85
								15.8	16.3	.5	23019	4.55
								16.3	16.8	.5	23020	4.25
15							Dark grey					
15.54	95						← 1cm wide qtz vein/vuglet @ 35°	16.8	17.3	.5	23021	2.65
								17.3	17.8	.5	23022	2.25
17.07						Broken		17.8	18.29	.49	23023	3.20
								18.29	19.5	1.21	23024	3.05
								19.5	20.11	.61	23025	3.35
18.29	80						← sulfide fmt @ 5° to core	20.11	21.64	.5	23026	1.85
								21.64	22.14	.5	23027	2.55
	40							22.14	22.64	.5	23028	2.15
19.5					A7			22.64	23.16	.52	23029	46.5
	40							23.16	23.66	.5	23030	11.30
20							20.11 — sulfide fmt/vuglet intervals	23.66	24.16	.5	23031	1.6
						Δ Δ broken Δ core Δ Δ Δ	chunky rod	24.16	24.69	.53	23032	5.35
								24.69	25.19	.5	23033	6.8
21.64							21.64	25.19	25.69	.5	23034	2.0
								25.69	26.19	.5	23035	1.6
23.16						Broken core		26.19	26.69	.5	23036	10.15
23.67								26.69	27.19		23037	0.8
								27.19	27.69		23038	5.2
24.69								27.67	28.19		23039	0.4
								28.19	28.69		23040	0.15
25								28.69	29.19		23041	0.15
26.21		10%		1-5%	A7	Δ Δ Δ	26.21 Ba content higher than normal in veinlets + blebs. 26.1	29.19	29.69		23042	0.40
								29.69	30.19		23043	25.00
27.69					A7			30.19	30.67		23044	4.49
	100						27.6	30.69	31.09		23045	1.35
29.41		1%	1%	2-3%	A2>A1	P						
30	100						30.6					
31.09							E.O.H. 31.09m 102'					

MADE IN ENGINEER CANADA

MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: THESIS III
HOLE NO.: A86-62	GROUND ELEV: 1644.5
LOCATION: NORTHING 3006.9.10 / EASTING 18059.00	BEARING: 264°
LOGGED BY: L. ECCLES	DIP: 45°
DATE: SEPT. 3	TOTAL LENGTH: FEET 108' / METERS 32.92m
CONTRACTOR: THOMAS	HORIZONTAL PROJECT
CORE SIZE: HQ	VERTICAL PROJECT
DATE STARTED: SEPT. 2	
DATE COMPLETED: SEPT. 3	
DIP TESTS: NO	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

Spent all nite trying to drill 27' = OFFERED TRICONING ONE SECTION AS A POSSIBLE SOLUTION BUT DRILLER REFUSED — CHANGED NITE SHIFT DRILLER.

SEVERAL BITS LOST AFTER TRI-CONING FIRST 35'.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

△△ — BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

SULFIDES / MINERAL ABBREVIATIONS

PY — PYRITE

CPY — CHALCOPYRITE

GA — GALENA

SP — SPHALERITE

BA — BARITE

CA — CALCITE

QV — QUARTZ VEIN

QTZ — QUARTZ

VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: THESIS II | HOLE NO. A-86-62

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS	
10							TRI-CONED TO 14.67 (25')						
10.67													
	25						Gumbo fault						
N.R.					A2								
12.80	50	0	0	1-2%		P							
	50						13.2	13.2	14.63		23046	2.25	
13.41								14.63	23.01	8.38	23047	20.2	NO ASSAY
	20	1%	1%	5-7%	A7		very broken - poor recovery						
M.L.							- cherty in places						
15													
	5												
16.01													
	0												
18.27							18.27						
					A7		TRI-CONED						
	0												
20													
21.64							21.64						
22.25	2	Tr	0	3-5%			very Broken - poor recovery - cherty	23.01	23.6	0.59	23048	10.8	
	10				A7			23.6	24.1	0.5	23049	34.2	
23.5	5					Py	23.15	24.1	24.7	0.6	23050	12.40	
23.90		1-2%	1%	1%	A7		Ba in narrow veinlet + fracture - Dark grey	24.7	25.2		23051	1.85	
	90			TR-1%			23.6	25.2	25.91		23052	1.35	
24.99		5%	1-2%	Py in	A3A7		LIGHT GREY Colour - Probable ore zone	25.91	26.41		23053	1.05	
				fracture			24.1	26.41	26.91		23054	0.25	
25	80							26.91	27.41		23055	0.75	
25.98		1%	1-2%	5% Py	A7		Broken Core	27.41	27.91		23056	0.25	
	95							27.91	28.5		23057	0.95	
27.43							27.41						
	95						27.7						
29.5		0	0	5-7% Py	A2A7	P							
	100												
30													
31.09													
	100												
							GUMBO FAULT						
32.92							E.O.H. 32.92 m. 108'						

MADE IN VANCOUVER, CANADA

MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: THESIS III
HOLE NO.: A-86-63	GROUND ELEV: 1644.8
LOCATION: NORTHING 3070.49, EASTING 1859.38	BEARING: 313°
LOGGED BY: L. ECCLES	DIP: -45
DATE: SEPT. 3	TOTAL LENGTH: FEET 46' / METERS 14.02
CONTRACTOR: THOMAS	HORIZONTAL PROJECT:
CORE SIZE: HQ	VERTICAL PROJECT:
DATE STARTED: SEPT. 3/86	
DATE COMPLETED: SEPT. 3/86	
DIP TESTS: No	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

SAME LOCATION AS 86-61, 62

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

 — BRECCIATED

P. — PORPHYRITIC

 — GUMBO (FAULT GOUGE)

 — PEBBLY - BROKEN CORE

SULFIDES / MINERAL ABBREVIATIONS

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CPY — CHALCOPYRITE

GA — GALENA

SP — SPHALERITE

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CA — CALCITE

QV — QUARTZ VEIN

QTZ — QUARTZ

VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: THESIS III | HOLE NO. A-8663

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au
0												
3.05							CASING TO HERE 3.05 m					
4.57	70				A2		yellow gumbo					
5	100				A2							
7.62	10											
9.45	5	5-			A5		9.50					
10		10%	5%				very poor recovery	-9.45	14.02		23059	4.05
10.97	0						poor recovery					
12.19												
14.02	2						E.O.H. 14.02m 46.0'					
15												
20												

MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: THESIS III	GROUND ELEV: 1648.4
HOLE NO: A-86-64		BEARING: 243°
LOCATION NORTHING: 30094.71 EASTING: 18047.64		DIP: -45 TOTAL LENGTH FEET: 74' METERS: 22.55
LOGGED BY: L. ECCLES		HORIZONTAL PROJECT
DATE: Sept 3		VERTICAL PROJECT
CONTRACTOR: Thomas		
CORE SIZE: HQ		
DATE STARTED: Sept. 3		
DATE COMPLETED: Sept. 4		
DIP TESTS: No		

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

— BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

SULFIDES / MINERAL ABBREVIATIONS

PY — PYRITE

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QTZ — QUARTZ

VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: THESIS III | HOLE NO. A 86-11

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
3.05							3.05 m / 10' CASING TO HERE					
3.96	90				A2	P porphyritic core	yellow - rusty					
	90	1%	2%	1% Py	A2/A1		4.5	4.5	5.35		23059	1.45
5.35						porphyritic core	light grey	5.35	5.85	.5	23060	17.15
	70							5.85	6.4	.55	23061	5.35
6.4							6.4	6.4	7.16	.76	23062	7.75
7.16	50	1-2%	2%	2-3% Py	A1		Poor recovery	7.16	7.62	.5	23063	3.35
	50							7.62	7.45	1.83	23064	2.95
7.62							- rusty on fractures	7.45	10.97	1.52	23065	3.85
	50						- Dark grey					
9.45												
	10							14.32	14.82		23066	2.0
10								14.82	15.85		23067	0.95
10.97							10.97	15.85	16.35		23068	0.65
11.52	90	0	0	2% Py	A2		← End of Sfc. oxidation	16.35	16.85		23069	0.90
								16.85	17.37		23070	1.70
	100						- yellow - grey	17.37	17.98		23071	0.55
12.9						P		17.98	18.5	0.52	23072	8.00
	100							18.5	19.81	1.31	23073	5.60
							Core loss	19.81	20.31		23074	1.75
14.32							← 14.32	20.31	20.81		23075	2.0
								20.81	21.03		23076	2.8
15	80	3%	5%	2-3% Py	A1			21.03	22.55		23077	1.75
							Core loss					
15.93	95			1% Py								
17.37							HIGH PY CONTENT - WHITE DRILL WATER RETURN					
17.98	90	5%	3%									
	80	2%	3%				Py content increases downwards					
19.81												
20												
21.03	70	2%	5%	up to 8% Py			Broken Core					
	20											
22.1	0						E.O.H. 22.55 m 74'					
22.55												

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DRILL LOG

PROJECT: AL	ZONE: THESIS III
HOLE NO.: A-86-65	GROUND ELEV.: 1648.3
LOCATION: NORTHING: 30094.20 EASTING: 18047.75	BEARING: 210°
LOGGED BY: L.ECCLES	DIP: -45
DATE: SEPT. 4	TOTAL LENGTH: FEET 66 / METERS 20.11
CONTRACTOR: THOMAS	HORIZONTAL PROJECT
CORE SIZE: HQ	VERTICAL PROJECT
DATE STARTED: SEPT. 4	
DATE COMPLETED: SEPT. 4	
DIP TESTS: NO	

ALTERATION SCALE

- A_3 — VERY SLIGHT PROPYLITIC
- A_2 — INTENSE CLAY ALTERATION
- A_5 — INTENSE SILICIFICATION ± BARITE
- A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE
- A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

- M — MASSIVE
- F.G. — FINE GRAINED
- △△ — BRECCIATED
- P. — PORPHYRITIC
- — GUMBO (FAULT GOUGE)
- — PEBBLY - BROKEN CORE

SULFIDES / MINERAL ABBREVIATIONS

- PY — PYRITE
- CPY — CHALCOPYRITE
- GA — GALENA
- SP — SPHALERITE
- BA — BARITE
- CA — CALCITE
- QV — QUARTZ VEIN
- QTZ — QUARTZ
- VG — VISIBLE GOLD
- TA — TALC
- LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: THESIS III | HOLE NO. A-86-65

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
3.65							CASING TO HERE 3.65m = 12'	3.65	4.51		23078	3.35
4.51	50	0	1%	1% P_1	A_1A_2		Broken Core	4.57	6.09		23079	2.25
5								8.23	9.75		23080	3.75
6.09	10						6.09	10.82	11.73		23081	2.65
								11.73	12.80		23082	3.60
								12.80	13.41		23083	7.75
								13.41	14.32		23084	2.40
	0	2%	5%	up to 5% P_1	A_1			14.32	15.08		23085	0.40
9.23								15.08	15.69		23086	0.80
	10							17.07	17.37		23087	1.35
9.75								17.37	17.87		23088	0.80
10								17.87	18.37		23089	0.80
	0							18.37	18.87		23090	0.55
10.92	20							18.87	19.51		23091	0.55
11.73							← end of ste. oxidation					
	0											
12.80	10											
13.41							13.41					
	10	1%	2%	3-5% P_1	A_1A_2							
14.32	40											
15												
15.08							15.08					
15.69	50											
	0	5%	5-7	5-7% P_1 minor cpy	A_1		Core					
17.07												
17.37	30											
	90											
18.69												
	40											
19.51												
20	0						E.OH. 20.11m 66'					

MADE IN VANCOUVER, CANADA

MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: BV
HOLE NO.: A-86-66	
LOCATION: NORTHING 29297.39 / EASTING 17622.94	
LOGGED BY: L. ECCLES	
DATE: SEPT. 5/86	
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: SEPT. 4/86	
DATE COMPLETED: SEPT. 5/86	
DIP TESTS: No	

GROUND ELEV	1599.7	
BEARING	200°	
DIP	-45°	
TOTAL LENGTH	FEET 95'	METERS 28.95
HORIZONTAL PROJECT	20.46	
VERTICAL PROJECT		

ALTERATION SCALE

- A_3 — VERY SLIGHT PROPYLITIC
- A_2 — INTENSE CLAY ALTERATION
- A_5 — INTENSE SILICIFICATION ± BARITE
- A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE
- A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

PROBLEMS FINDING Enough WATER — Had to shut hole down several times while sump regenerated itself — will need a very long Water line if any further drilling is to take place at this time of year

LEGEND

TEXTURE:

- M — MASSIVE
- F.G. — FINE GRAINED
- △△ — BRECCIATED
- P. — PORPHYRITIC
- — GUMBO (FAULT GOUGE)
- — PEBBLY - BROKEN CORE

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- TA — TALC
- LI — LIMONITE

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PAGE 1 OF 2 | PROJECT: BV | HOLE NO. A-86-65

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
4.57	20				A_3		CASING 4.57m					
5.18	50	0	0		A_3A_2		- Green dickite + grey chert frags	5.18	6.25		23072	0.15
6.25	90				A_3		Maroon					
9.62												
10	70											
15												
15.85	0	0	0	1% py			16.25 Fault Contact ~@ 35°	16.25	17.37		23093	0.15
17.37	100				A_2A_3 ± A_5		- Some grey chert frags + A_3 Frags 17.37	17.37	18.37		23094	0.05
								18.37	19.37		23095	2.35
	100				A_3A_2		dickite replacing feldspars + in fractures	19.37	20.37		23096	0.25
18.89							18.29					
	80				A_2		19.29					
					A_3A_2							
20.42												
	90						Fault					
21.53												
	95											
22.86					A_5A_2		22.86					

PAGE 2 OF 2 | PROJECT: | HOLE NO. A-86-66

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
24.38	100	5%	0	1% py	A1S1C2 + A1	A A A P A	chert breccia w/ banks 2 cm wide Barren @ 85° to core 24.88	20.37 21.33 22.33 22.86	21.33 22.33 22.86 23.36		23077 23078 23079 23100	1.75 2.20 2.15 0.90
25.91					A3A2	A A P A	- some chert frags - green dickite altering feldspars + in fractures	23.36 23.96 24.38 24.88 25.88	23.96 24.38 24.88 25.88 26.88	0.60 0.50 0.5 1.0	23101 23102 23103 23104 23105	3.60 5.75 2.075 1.75 1.20
27.43 28.95						A P A	- 35° to core fault E.O.H. 28.95m - 75°	26.88 27.88	27.88 28.95		23106 23107	0.15 0.10

25 30 35 40 45

MADE IN VANCOUVER, CANADA

MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: SOUTH BONANZA	GROUND ELEV: 1686.9
HOLE NO: A 86-67		BEARING: 082
LOCATION: NORTHING 31139.38 / EASTING 19496.65		DIP: -45
		TOTAL LENGTH — FEET: 42' / METERS: 12.80
LOGGED BY: L. ECCLES		HORIZONTAL PROJECT:
DATE: SEPT. 15 / 86		VERTICAL PROJECT:
CONTRACTOR: Thomas		
CORE SIZE: HQ		
DATE STARTED: Sept 15/86		
DATE COMPLETED: Sept 16/86		
DIP TESTS: No		

ALTERATION SCALE

- A_3 — VERY SLIGHT PROPYLITIC
- A_2 — INTENSE CLAY ALTERATION
- A_5 — INTENSE SILICIFICATION ± BARITE
- A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE
- A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

- M — MASSIVE
- F.G. — FINE GRAINED
- — BRECCIATED
- P. — PORPHYRITIC
- — GUMBO (FAULT GOUGE)
- — PEBBLY - BROKEN CORE

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- TA — TALC
- LI — LIMONITE

PAGE 1 OF 1 | PROJECT: SOUTH BONANZA | HOLE NO. A-86-67

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
2.44							CASING TO HERE 244m (8')					
3.66	75				A_3 + frag	P	- purple porphyry - fragmental - fragments elongated ≥ 45° to core					
	100		0					6.1	6.73		23108	0.15
								6.98	7.5		23109	3.75
5												
5.19					$A_2 A_3$	P	5.34 Vn + Pink - rusty	7.5	8.0		23110	23.13
	75		0					8.0	8.5		23111	23.35
6.70								8.5	7.0			23.50
7.31	100						← 6.78 Pink hyp		9.5		23112	23.65
			1-3%	5-10%	A_1			7.5	10.0		23113	2.00
		2%	1%				← 7.7 Va * ← mineralized section appears to be a Ba chert suicide vein zone	10.0	11.0		23115	0.95
7.77						Vesicular						
	70	3%	3%		$A_1 A_2$		9.35					
						Pa frags	10.26					
	100	0	0	1%	$A_2 A_1$		11.19					
					A_3	P	Dimple porph.					
12.80							E.O.H. 12.80m (42')					
15												

MADE IN VANCOUVER, CANADA

MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: SOUTH BONANZA
HOLE NO: A-86-68	GROUND ELEV: 1687.0
LOCATION: Same set up as 67	BEARING: 082
NORTHING: 21139.36	DIP: -60
EASTING: 19496.05	TOTAL LENGTH: FEET 56 / METERS 17.07
LOGGED BY: L. ECCLES	HORIZONTAL PROJECT:
DATE: SEPT. 16 /86	VERTICAL PROJECT:
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: Sept. 16	
DATE COMPLETED: Sept 16	
DIP TESTS: No	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

△△△ — BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

SULFIDES / MINERAL ABBREVIATIONS

PY — PYRITE

CPY — CHALCOPYRITE

GA — GALENA

SP — SPHALERITE

BA — BARITE

CA — CALCITE

QV — QUARTZ VEIN

QTZ — QUARTZ

VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: AL-SOUTH BONANZA | HOLE NO. A-86-68

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
3.04							CASING TO HERE 3.04 m (10')					
	100				A3	P.t frags	- frags elongated @ 63° to core	7.4	8.4		23116	0.75
							- purple	8.4	8.9		23117	12.65
4.87								8.9	7.4		23118	12.15
5								9.4	9.9		23119	12.35
	100							9.9	10.4		23120	180.24
6.7								10.4	10.9		23121	2.95
								10.9	11.4		23122	14.00
							7.4	11.4	11.9		23123	5.05
	100	F 3%	1/2% 1-5%	2-7% Py	Py ± Az A7	Py frags	Pink 8.4 Pinkish-Grey	11.9	12.9		23124	0.40
9.60				up to 8% in patches								
10	100						10.57 — Bx Veining with banded sulphides up to 15 cm wide - w/ Py ± cu sulfides @ 40° to core					
							12.1					
12.90		0	0	1% Py	Az A3	P	Pink					
	100				A3	Pt frags	- Purple - frags elongated at 70°-80° to core					
15												
17.07							E.O.H. 17.07m 56.0'					
20												

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DRILL LOG

PROJECT: AL	ZONE: SOUTH BONANZA
HOLE NO: A-86-69	GROUND ELEV: 1686.6
LOCATION: NORTHING 3113.0.84 / EASTING 19495.78	BEARING: 080°
LOGGED BY: L. ECCLES	DIP: -45
DATE:	TOTAL LENGTH: FEET 52 / METERS 15.85
CONTRACTOR: THOMAS	HORIZONTAL PROJECT: 11.25.
CORE SIZE:	VERTICAL PROJECT:
DATE STARTED: Sept. 16	
DATE COMPLETED: Sept 16	
DIP TESTS: No	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

△△△ — BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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PY — PYRITE

CPY — CHALCOPYRITE

GA — GALENA

SP — SPHALERITE

BA — BARITE

CA — CALCITE

QV — QUARTZ VEIN

QTZ — QUARTZ

VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE	OF	PROJECT:	HOLE NO
1	1	SOUTH BONANZA	A-86-69

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	WIDTH	SAMPLE NUMBER	ASSAYS
0												
3.05	95	0	0	1% Py rusty	A2	Broken core	3.05m CASING TO HERE 10′	6.7	7.7		23125	2.00
							Rusty –	7.7	8.2		23126	2.55
4.42	75					P + frags	Light gray	8.2	8.7		23127	5.05
								8.7	9.2		23128	2.80
5.98	90							9.2	9.7	—	23129	3.05
							← part of surface oxidation	9.7	10.2	—	23130	3.00
6.70		TR	TR				6.7	10.2	10.7	—	23131	4.00
	90			2-3% Py	A2A7	P	Pinkish	10.7	11.2	—	23132	7.05
								11.2	11.7		23133	6.25
7.62					↓			11.7	12.2	—	23134	18.20
					A7A2		9.4	12.2	12.9	—	23135	4.00
	100	2-3% in Ba	tr to 5% in v'lets	5-7% Py in patches + blue-black (copper? weathering)	A7		- Ba occurs in veinlets + fracture fillings					
10.06							- pinkish grey					
11.80					A7A3	P	13.8					
					A3	P + frags	Purple					
							- frags @ 65° to core					
14.70												
15.85							E.O.H – 15.85m – 52′					

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DRILL LOG

PROJECT: AL	ZONE: BONANZA - SOUTH	GROUND ELEV: 11.86.4
HOLE NO: A 86-70		BEARING: 084
LOCATION		DIP: -45
NORTHING: 31124.14		TOTAL LENGTH FEET: 56 / METERS: 17.07
EASTING: 19497.26		
LOGGED BY: L. ECCLES		HORIZONTAL PROJECT: 12.12
DATE: Sept. 17		VERTICAL PROJECT:
CONTRACTOR: Thomas		
CORE SIZE: HQ		
DATE STARTED: Sept. 17		
DATE COMPLETED: Sept. 17		
DIP TESTS: No		

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

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LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: BONANZA - SOUTH | HOLE NO. A-86-70

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
3.45	50	0	0	0	A_5	P	~~Casing to here~~ 3.65m 12'					
4.57					P_2A_3	P	Purple	6.1	7.1		23136	1.75
								7.1	8.1		23137	2.80
								8.1	8.6		23138	5.05
5					A_1A_2	Broken core		8.6	9.1		23139	4.40
	100						end of pre-oxidation	9.1	9.6		23140	1.80
6.25								9.6	10.1		23141	0.40
	100	Tr	1%	Patches up to 3%		P	Pinkish grey	10.1	10.6		23142	0.80
								10.6	11.1		23143	3.85
7.62								11.1	11.6		23144	6.55
	100							11.6	12.1		23145	13.35
9.14								12.1	12.6		23146	5.75
	90					Broken core	VG*	12.6	13.1		23147	10.90
								13.1	13.6		23148	6.25
10						Broken core		13.6	14.1		23149	2.40
10.40	90											
10.97				Up to 10% pyrite (also blebs)	A_7		← Low Ba content except for vein					
	100	1%	2%				pinkish grey					
12.65							← Banded anhydritic Ba + barite veins up to 20 cm wide - no orientation possible					
					P_2A_3	P	13.9 Pink					
15						A A A	Green dikes replacing feldspars 15.19					
15.08					A_3	P + Purple						
17.07							E.O.H. 1207 m 56.0'					
20												

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DRILL LOG

PROJECT: AL	ZONE: SOUTH BONANZA
HOLE NO: A-86-71	
LOCATION: NORTHING 31115.10 / EASTING 19497.35	
LOGGED BY: L. ECCLES	
DATE: Sept. 18/86	
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: Sept 17	
DATE COMPLETED: Sept. 17	
DIP TESTS: No	

GROUND ELEV: 1685.8	
BEARING: 077°	
DIP: -45°	
TOTAL LENGTH FEET: 47'	METERS: 14.32
HORIZONTAL PROJECT: 10.13	
VERTICAL PROJECT:	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

— BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

PAGE 1 OF 1 | PROJECT: SOUTH BONANZA | HOLE NO. A-86-71

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
3.05							CASING TO HQ&E 3.05m = 10'					
	100	0	0	1% PY	A_2A_3	P	rust on fractures	4.27	5.27		23150	6.90
4.27								5.27	6.27		23151	0.90
			up to 3%	up to 3%	$A_1 = A_2$	P	4.27 Rust - minor Ba veins @ 60°	6.27	7.27		23152	0.25
5	100	1%						7.27	7.77		23153	1.05
5.66				1-2% PY	A_1	P	5.66 Pink	7.77	8.27		23154	2.25
	100	0	0		A_1A_2	P	5.8	8.27	8.77		23155	0.95
6.7				pod-like up to 3%	A_2A_3	P+ Frag	← End of surface oxidation pink — frags @ 70°	8.77	9.27		23156	2.15
								9.27	10.29		23157	0.95
								10.29	11.29		23158	2.25
		TR	1%	5% in matrix	A7 minor A_2	P	9.02 Pink grey					
9.75					A_2A_3	P	9.29 Pink					
						frag						
11.88												
	100						12.8					
12.80					A_3	P+ Frag	purple					
14.32							E.O.H. 14.32m = 47'					
15												
20												

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DRILL LOG

PROJECT: AL	ZONE: SOUTH EXTENSION
HOLE NO: A-86-72	GROUND ELEV: 1685.8
LOCATION	BEARING: 077°
NORTHING: 31115.10	DIP: -65
EASTING: 19497.35	TOTAL LENGTH: FEET 52 / METERS 15.85
LOGGED BY: L. ECCLES	HORIZONTAL PROJECT:
DATE: Sept. 18	VERTICAL PROJECT:
CONTRACTOR: THOMAS	
CORE SIZE: H Q	
DATE STARTED: SEPT. 17	
DATE COMPLETED: Sept. 18	
DIP TESTS: No	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

△△△ — BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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GA — GALENA

SP — SPHALERITE

BA — BARITE

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VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: Bonanza South | HOLE NO. A-86-72

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
3.65							CASING TO HERE 3.65 m - 12'					
	80				A_3	P	Purple-brown					
5							5.94					
6.75		0	0	1% P	A_2 to A_3	P+ frags	Pink					
	100						7.87	7.4	7.9		23159	3.20
		1%	0	15% PY	A_2 -	P	7.7 grey					
		0	0	1%	A_2/A_3	P+ frags	Pink					
7.14												
10												
	100					Broken core	core loss	12.49	13.0		23160	4.45
								13.0	14.0		23161	2.95
11.58								14.0	14.78		23162	1.85
	90											
12.99							12.99					
		Tr	0	5% PY in patches	A_1A_2	Broken core	Pale grey					
	80					P						
14.02							14.22					
14.78	80	0	0	1%	A_2A_3	P+	Pink					
15												
	80					frags						
15.85							E.O.H. 15.85 m - 52'					
20												

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DRILL LOG

PROJECT: AL	ZONE: BV
HOLE NO: A-86-73	
LOCATION — NORTHING: 29303.63	
LOCATION — EASTING: 17614.09	
LOGGED BY: L. ECCLES	
DATE: SEPT. 19/86	
CONTRACTOR: THOMAS	
CORE SIZE: H.Q	
DATE STARTED: SEPT. 19/86	
DATE COMPLETED: Sept. 20/86	
DIP TESTS: NO	

GROUND ELEV: 1601.2	
BEARING: 204°	
DIP: -45	
TOTAL LENGTH — FEET: 130'	METERS: 39.62
HORIZONTAL PROJECT: 28.01 m	
VERTICAL PROJECT:	

ALTERATION SCALE

- A_3 — VERY SLIGHT PROPYLITIC
- A_2 — INTENSE CLAY ALTERATION
- A_5 — INTENSE SILICIFICATION ± BARITE
- A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE
- A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

Having trouble with core tube not locking — core ground at select intervals throughout

LEGEND

TEXTURE:

- M — MASSIVE
- F.G. — FINE GRAINED
- △△ — BRECCIATED
- P. — PORPHYRITIC
- — GUMBO (FAULT GOUGE)
- — PEBBLY - BROKEN CORE

SULFIDES / MINERAL ABBREVIATIONS

- PY — PYRITE
- CPY — CHALCOPYRITE
- GA — GALENA
- SP — SPHALERITE
- BA — BARITE
- CA — CALCITE
- QV — QUARTZ VEIN
- QTZ — QUARTZ
- VG — VISIBLE GOLD
- TA — TALC
- LI — LIMONITE

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PAGE 1 OF 2 | PROJECT: BV | HOLE NO. A-86-73

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
4.87							CASING TO HERE - 4.87m = 16'					
5	75	0	0	0	A_3		Purple					
6.09					A_3 +		5.79 A_2 Combo between Grey	5.79	7.62		23163	1.75
	0	0	0	1% py	A_2	Broken Core		7.62	10.05		23164	1.45
	50						- Cherty					
						Δ	- Grey					
9.75						Δ		14.0	15.0		23165	1.40
						Δ		15.0	16.0		23166	1.05
						Δ		16.0	17.5		23167	1.35
10								17.0	17.5		23168	2.40
					A_3		purple	17.5	18.0		23169	0.55
								18.0	18.5		23170	0.55
12.19								18.5	19.0		23171	0.45
								19.0	19.5		23172	0.40
	100							19.5	20.0		23173	1.75
13.71								20.0	20.5		23174	0.40
	100	0	0	1% Py	A_2		13.9 ← Contact of A_3 + A_2					
15						Δ						
15.72						Δ						
	50					Δ						
17.07						Δ	17.07					
		Tr	0	upto	A_2	Δ	- minor chert veinlets					
	90		1%	2% Py		Δ						
18.51						Δ	Grey					
						Δ						
20					A_2	Δ	19.81 Chert					
20.18	90											
					A_2		21.33					
	100				A_3		white purple	21.33	21.95		23175	0.15
							22.1					
22.86				1% Py	A_3	Δ	22.66 very pyritic chert Breccia					

PAGE 2 OF 2	PROJECT: B V	HOLE NO. A-86-73

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS
22.86	90	40% in veins	0	5% in patches or veins	A7	Bxd A ...	22.86 → core tube not hooking	22.5	23.0		23176	0.25
23.77								23.0	23.5		23177	30.7
	100						24.3 - Ba chert BBXX vein @ 35° to core ~10 cm wide	23.5	24.0		23178	0.65
								24.0	24.5		23179	5.05
25.45					A7A2	P̄	25.45 - Ba chert BBXX veining; purple	24.5	25.0		23180	1.45
	100							25.0	25.5		23181	6.80
							26.4	25.5	26.0		23182	0.25
26.97		vein 5%		cpy+py	A2	P	26.7 - minor Ba veining; Ba/chert + sulfide veinlets	26.0	26.5		23183	0.40
								26.5	27.0		23184	5.95
	40	in patches	0				pink/grey	27.0	27.5		23185	2.40
27.34							poor recov	27.5	28.3		23186	0.25
	50							28.3	29.3		23187	6.80
29.26								29.3	29.8		23188	60.65
	40							29.8	30.3		23189	9.25
30.17	25	5%		0	A7	Δ Δ	29.9 chert breccia + barite; grey	30.3	30.8		23190	22.60
						Δ Δ		30.8	31.3		23191	4.40
31.54						Δ Δ		31.3	31.8		23192	1.20
							31.7	31.8	32.3		23193	1.20
					A7A2	P Δ	grey to pink	32.3	32.8		23194	1.70
	90					Δ Δ	32.92	32.8	33.8		23195	0.40
33.53					A2 A3							
	100						33.98					
					A3	P	purple					
35.05	100											
38.1	100											
39.62							E.O.H. 130' — 39.62 m					

Margin depth marks: 23, 25.0, 30, 35, 40

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DRILL LOG

PROJECT: AL	ZONE: BV
HOLE NO: A-86-74	
LOCATION: NORTHING 29294.99 / EASTING 17630.73	
LOGGED BY: L. ECCLES	
DATE: Sept 21/86	
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: SEPT. 20/86	
DATE COMPLETED: Sept. 21/86	
DIP TESTS: No	

GROUND ELEV: 1599.4	
BEARING: 200	
DIP: -45	
TOTAL LENGTH: FEET 108	METERS 32.92
HORIZONTAL PROJECT: 23.28	
VERTICAL PROJECT:	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

— BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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PAGE 1 OF 2	PROJECT: BV						HOLE NO. A-86 74										

DEPTH (m)		% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS				
0																	
3.35								CASING TO HERE 3.35m = 11'									
						A_3	P	purple									
		100															
4.57																	
						A_2		4.72									
5		75	0	0	1-2% py	fractured A_3+A_2	Δ Δ Δ Δ	fault zone - gray - minor rust on fractures	4.72	6.00		2[illegible]6	5.05				
6.09									6.00	6.55		2[illegible]7	0.55				
								6.55									
		90				A_3	P	- purple									
7.62																	
		100															
9.14																	
		100															
10																	
10.66																	
		100															
13.71																	
		100															
15																	
15.24																	
		100															
16.76																	
		100															
18.29																	
		100															
19.81																	
20								20.08 = angle of fault contact 40-45°									
			TR	1%	2% py	A_{3}-A_2	Δ Δ Δ	- A_2 gouge between frags 20.98	20.08	20.95		[illegible]	[illegible]				

PAGE 2 OF 2 | PROJECT: BV | HOLE NO. A-86-74

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
	80				A_3	P	purple					
24.38												
25	100											
25.91							25.91	25.91	26.41		23199	3.35
		0	0	1% A_1	A_7		chert Brec Grey	26.41	26.91		23200	0.90
	100				A_7 A_3		26.71 Pink-grey chert veinage + Debris	26.91	27.41		23201	3.35
27.43				1% py chlor	A_7 A_3		27.11 chert Brec Grey	27.41	27.91		23202	0.40
		1%	1%	2-3% - mine in Qtz	$A_1 A_2$	P	- minor chert + Ba veining w/ massive py in fractures	27.91	28.41		23203	1.35
	100						- fractured	28.41	29.41		23204	3.05
29.87							- pink - grey	29.41	30.41		23205	0
35	95						green Dickite + purple porph					
30.63							30.78 - fault @ 45° to core					
					A_3	P	- purple					
32.92							E.O.H. 32.92 = 108'					
35												
40												

MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: A-86-75 BV
HOLE NO: A 86-75	
LOCATION: NORTHING 29289.82 / EASTING 17638.50	
LOGGED BY: L. ECCLES	
DATE: Sept. 22/86	
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: Sept. 21/86	
DATE COMPLETED: Sept. 22/86	
DIP TESTS: No	

GROUND ELEV: 1998.6	
BEARING: 195	
DIP: -45°	
TOTAL LENGTH FEET: 90'	METERS: 27.43
HORIZONTAL PROJECT: 19.39	
VERTICAL PROJECT:	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

△△ — BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

SULFIDES / MINERAL ABBREVIATIONS

PY — PYRITE

CPY — CHALCOPYRITE

GA — GALENA

SP — SPHALERITE

BA — BARITE

CA — CALCITE

QV — QUARTZ VEIN

QTZ — QUARTZ

VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 2 | PROJECT: Bv | HOLE NO. A-86-75

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
2.13							CASING TO HERE 2.13m = 7'					
					A_1 + A_2	P	- pinkish - mostly thin veinlets - rocky on fractures	2.43 3.43 3.96	3.43 3.96 4.46		23206 23207 23208	0.65 0.05 1.20
	90						3.76					
4.97		Tr	0	up to 3% Py	A_1	Δ Δ Δ	- chert breccia w/ some A_3 + A_1	4.46 4.96	4.96 5.56		23209 23210	6.00 2.00
5												
6.07	100					Δ Δ	5.71					
					A_3	P	Purple					
	100											
9.14												
10												
10.66												
							14.17					
		0	0	2% Py	A_1 + A_2	Δ	A_2 Between 15m to 19m - minor clot veining	14.17 14.67	14.67 15.17		23211 23212	15.60 7.95
15												
15.24												
		1-2%	0	1-2% Py	A_1	Δ Δ	- chert veining - grey rock	15.17 15.67	15.67 16.17		23213 23214	28.95 13.35
	90					Δ	← 16.46 - 10cm wide Ba vein	16.17	16.67		23215	34.67
						P	- Purple/pink	16.67	17.17		23216	4.65
							- Siliceous	17.17	17.67		23217	1.00
17.67							- minor clot veining					
					A_1	Δ Δ Δ		17.67	18.67		23218	0.65
	100							18.67	19.17		23219	1.25
						Δ	- chert ± Ba stockwork - widely scattered veins	19.17	19.67		23220	29.60
19.35								19.67	20.17		23221	7.45
20		↑	0	↑		Δ		20.17	20.67		23222	3.05
	100	1%		1-2% Py				20.67	21.17		23223	1.85
20.90					A_1 + A_2		Gumbo w/ A_1 fragments	21.17	21.67		23224	1.05
	100	↓		↓		Δ		21.67	22.17		23225	3.05
22.4												

PAGE 2 OF 2 | PROJECT: BV | HOLE NO. A-86-75

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
						Δ						
						Δ	- Gumbo clay seams between frags	22.17	22.67		23226	0.40
	100	1%	1%	2% py	A1	Δ		22.67	23.17		23227	0.15
24.69					minor	Δ		23.17	23.67		23229	0.40
						Δ		23.67	24.17		23229	0.15
25					A2+ A3	Δ		24.17	24.67		23230	1.20
	100				frag's	Δ	- minor amounts of fine grey sulfides, remaining chlorite Qtz veins	24.67	25.17		23231	1.45
							26.51	25.17	26.51		23232	0.15
27.43					A3	P	E.O.H. 27.43m 90°					

MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: BV
GROUND ELEV: 1598.5	
HOLE NO: A-86-76	BEARING: 200
LOCATION: NORTHING 29288.56, EASTING 17650.66	DIP: -45
TOTAL LENGTH: FEET 100' / METERS 30.48	
LOGGED BY: L. ECCLES	HORIZONTAL PROJECT: 21.55
DATE: Sept 23 /86	VERTICAL PROJECT:
CONTRACTOR: Thomas	
CORE SIZE:	
DATE STARTED: Sept. 22	
DATE COMPLETED: Sept 23 /86	
DIP TESTS: NO.	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

△△ — BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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SP — SPHALERITE

BA — BARITE

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VG — VISIBLE GOLD

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LI — LIMONITE

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PAGE 1 OF 2 | PROJECT: BV | HOLE NO. A-86-76

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
3.05						Broken core	CASING TO HERE 3.05m = 10'	3.05	3.55		23233	0.80
	75							3.55	4.57		23234	0.65
4.57					A7	D	Rusty	4.57	5.07		23235	0.25
							A2 Fault gouge w/ A7 frags	5.07	5.57		23236	0.95
5	75							5.57	6.07		23237	0.90
								6.07	6.57		23238	8.00
5.94		9%	1%				← 6.4 — Ba BBxx w/ chert up to 15cm wide.	6.57	7.07		23239	4.65
								7.07	7.57		23240	0.55
	75						Ba BBxx →	7.57	8.07		23241	14.80
							Core loss " " →	8.07	9.00		23242	4.80
9.00		15%	1%	3%	A7		Ba chert BBxx - veins @ 45°					
							9.00 ← Sfc ox. ends here					
10					A3	P	Purple.					
15												
20												

PAGE 2 OF 2	PROJECT: BV	HOLE NO. A 86-76

DEPTH (m)		% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	WIDTH	SAMPLE NUMBER	ASSAYS				
						A3	P										
23.47								23.47	23.47	24.47		23243	0.15				
						A2	Δ	minor frags of A3 } fractured fault zone	24.47	25.47		23244	1.95				
24.38						A1A2	Δ		25.47	25.97		23245	28.75				
25			up to 5%	0	1% py up to 4% in patches		Δ	- gouge between frags	25.97	26.47		23246	0.40				
							Δ	← minor narrow Ba veins	26.47	26.97		23247	2.15				
									26.97	27.47		23248	1.45				
							Δ		27.47	27.97		23249	0.80				
27.43								← narrow Ba veins @ 10° to core	27.97	28.97		23250	0.05				
							Δ	28.0									
						A2		29.11									
30						A3	P	purple									
								30.49 E.O.H. 100'									
35																	

MADE IN VANCOUVER CANADA

MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: BV
GROUND ELEV: 1598.0	
HOLE NO: A-86-77	BEARING: 200
LOCATION	DIP: -45
NORTHING: 29287.37	TOTAL LENGTH FEET: 120' / METERS: 36.57
EASTING: 17660.17	
LOGGED BY: L. ECCLES	HORIZONTAL PROJECT: 25.85
DATE: Sept. 24/86	VERTICAL PROJECT:
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: SEPT. 23/86	
DATE COMPLETED: Sept. 23/86	
DIP TESTS: No	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

— BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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QV — QUARTZ VEIN

QTZ — QUARTZ

VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: BV | HOLE NO. 11-86-77

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
3.05							CASING TO HERE 3.05m - 10'					
	90				A_3 / A_2A_7	P	Purple 3.96 Grey + rusty 4.66	3.96 4.66 5.16	4.66 5.16 5.66		23251 23252 23253	0.05 14.00 0.65
5.48	85	UPH 20% fine	0	1-2%	A_7	P Broken	Ba Chert Rem Pinkish	5.66 6.16 6.66 7.16 7.66	6.16 6.66 7.16 7.66 8.16		23254 23255 23256 23257 23258	10.65 0.95 0.20 0.65 5.35
8.23	90	W 30		2-5%	A_7		8.23 - 10-20 cm wide Ba chert Bxx	8.16 8.66 9.16 9.66 10.16	8.66 9.16 9.66 10.16 10.66		23259 23260 23261 23262 23263	7.35 24.05 33.24 3.05 20.29
10.24 12.19	100	%					abundant Ba veining 12.19	10.66 11.16 11.66	11.16 11.66 12.19		23264 23265 23266	67.97 66.15 78.17
					A_3	P	Purple not to Scale					
30.48	100						31.7	31.7 32.7 33.7	32.7 33.7 35.05		23267 23268 23269	0.95 0 1.85
33.53	100	1%			A_2 A_7A_2 A_2		35.05					
36.57					A_3	P	E.O.H. 36.57m - 120'					

* note scale

MADE IN VANCOUVER, CANADA

MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: BV
HOLE NO.: A-86-78	
LOCATION: NORTHING 29282.64 / EASTING 17667.82	
LOGGED BY: L.E CCLES	
DATE: Sept 24	
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: Sept. 23	
DATE COMPLETED: Sept. 24	
DIP TESTS: No	

GROUND ELEV: 1597.2	
BEARING: 200	
DIP: -45	
TOTAL LENGTH: FEET 80' / METERS 24.38	
HORIZONTAL PROJECT: 17.23	
VERTICAL PROJECT:	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

1ST NITE SHIFT

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

— BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: BV | HOLE NO. A-86-78

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
3.05							CASING TO HERE 3.05m = 10'					
3.96	95				A3	P		3.5	4.0		23270	40
								4.0	4.5		23271	1.2
	50	up to 20%	1%	up to 3% in patches	A7	° Δ ° Δ °	veining + Boxx textures	4.5	5.0		23272	5.45
4.57							core loss.	5.0	5.9		23273	1.85
								5.9	6.4		23274	28.65
5						Δ	Grey	6.4	6.9		23275	0.55
5.94						Δ Δ	6.0m 20cm wide Ba vein 45° to core	6.9	7.4		23276	12.25
	90					D		7.4	7.9		23277	0.4
								7.9	8.4		23278	4.8
7.31							7.2 10 cm wide Ba vein	8.4	8.9		23279	12.45
	90					Δ	8.4 10 cm wide Ba vein	8.9	9.4		23280	3.05
9.38							core loss	9.4	10.6		23281	0.35
						Δ	8.7 10cm wide Ba vein	10.6	11.1		23282	4.05
	85						9.14	11.1	12.1		23283	2.0
					A7A3	P	purple + Ba veinlets core loss	12.1	13.7		23284	0.25
10												
10.67							grey sulfide salvage containing Ba + chert veinlets (stocking)					
12.9	90											
							12.5					
	90				A2A3 + A7 from		grey					
13.71							13.71					
					A3	P	Apple					
15												
15.24	100											
					V							
20												
							- not to scale					
24							23.38m E.O.H 80'					

MADE IN VANCOUVER CANADA

MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: BV
GROUND ELEV: 1593.9	
HOLE NO: A-86-79	BEARING: 200°
LOCATION: NORTHING 29270.52 / EASTING 17692.50	DIP: -45
TOTAL LENGTH: FEET 90 / METERS 27.43	
LOGGED BY: L.ECCLES	HORIZONTAL PROJECT:
DATE: sept. 24	VERTICAL PROJECT:
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: Sept. 24	
DATE COMPLETED: Sept. 24	
DIP TESTS: No	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

△△ — BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 2 | PROJECT: BV | HOLE NO A-86-79

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
2.13	20						CASING TO HERE 2.13 m = 7' core loss	2.13	4.57		23295	0.15
3.05						Broken	- Ba stringers + chert scattered throughout	4.57	5.07		23296	0.65
						Core		5.07	5.57		23297	0.65
	75				A7		- green/grey	5.57	6.07		23298	0.65
4.57								6.07	6.57		23299	1.85
4.87	100				Trace A2			6.57	7.07		23290	0.55
5												
								7.07	8.38		23291	0.45
5.79						Δ Δ	- frags surrounded by seams of gouge	8.38	9.45		23292	0.25
						Δ Δ		9.45	9.95		23293	0.15
	90					Δ Δ		9.75	10.45		23294	0.15
7.96						Broken		10.45	10.95		23295	5.60
	30					Core		10.95	11.45		23276	19.95
8.38								11.45	11.95		23277	3.20
	30							11.95	12.45		23298	10.95
9.14							← 9.45 fault gouge - red - purple	12.45	12.95		23299	23.95
					A1A3	Δ	← 2cm wide Ba vein 80° to core	12.95	13.45		23280	10.55
10												
	100				A7	Δ	Specimen + VG →	13.45	13.95		23301	11.99
10.97						Δ	10.95 green grey purple 10cm wide Ba vein w/ CPY, GA + VG*	13.95	14.45		23302	11.45
						Δ		14.45	14.95		23303	0.45
	75					Broken rubble	← 12.0 - 50cm wide Ba vein	14.95	15.45		23304	0.45
12.19							12.80 10-20cm white Ba vein @ 80-70° to core. w/ chert +					
12.80							grey sulphide vein selvages					
						Δ Δ		18.13	19.13		23305	2.65
	100					Δ Δ	- grey	19.13	20.13		23306	.15
							13.71 - 5cm wide Ba vein @ 45°	20.13	21.13		23307	.55
14.52					A2		Grey	21.13	22.13		23308	.75
	100					Δ Δ		22.13	23.13		23309	.15
15												
15.24					A2A1	Δ	- chert veining - purple - green	23.13	24.13		23310	.65
							15.6	24.13	25.13		23311	.65
	100				A3			25.13	26.13		23312	.40
16.76						P	Purple					
	100											
19.29					A2 w/ frags of A1	Δ Δ Δ	18.13					
20												
							21.03					

PAGE 2 OF 2 | PROJECT: Bv | HOLE NO. A-86-79

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
22.96					A2	~~~	22.96					
					A2 minor chert veinlets	△	greenish (Dacite)					
24.38		1%	0	1% Py	A3	P	24.38 25.0 1cm wide Bx vein 35°					
							purple - green					
							- minor clay (gouge) seamlets					
27.43					A2	P	Pulp E.O.H. 27.43 90°					

25

MINERALS LTD

DRILL LOG

PROJECT: AL	ZONE: BV
GROUND ELEV: 1596.2	
HOLE NO.: A-86-80	
BEARING: 200	
LOCATION: NORTHING 29278.78, EASTING 17676.99	
DIP: -45	
TOTAL LENGTH: FEET 60' / METERS 18.29	
LOGGED BY: L. ECCLES	
HORIZONTAL PROJECT: 12.93	
DATE: Sept. 25	
VERTICAL PROJECT:	
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: Sept. 24	
DATE COMPLETED: Sept 25	
DIP TESTS: No	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

POOR CORE RECOVERY THROUGHOUT HOLE

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

— BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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QTZ — QUARTZ

VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: BV | HOLE NO. A-86-80

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
3.65					A_3	P	CASING TO HERE - 3.65 m = 12'					
4.57	60				A_7	Brecciated	Core loss	3.96	5.79		23313	.55
	0							5.79	6.70		23314	2.55
5.18								6.70	7.20		23315	2.15
5.79	50							7.20	7.92			.45
6.7	75						Core loss	7.92	8.53		23317	5.75
								8.53	9.03		23318	2.55
	95						Core loss	9.03	10.66		23319	70.50
							core loss	10.66	12.19		23320	47.37
7.92						Δ B	Fe veining throughout up to 10 cm wide	7.92				
8.53	50					δ	- core loss	8.53				
9.14	95					P						
							9.14 - 10 cm wide Ba chert BBXX vein @ 90° to CAL					
	70					Δ B	Ba stockwork in chert BBXX	core loss	15.24	16.76		23324	25.65
								core loss	16.76	17.67	23325	.25
10.67	50					Δ Δ	10.97					
12.19					A_2		grey					
							12.19					
13.71	50				A_7	Δ	Core loss					
	5						- Grey chert BBXX					
15.24					A_2A_7		15.24					
	90						15.85 - Bottom contact 5-10° to core					
					A_7	Δ B	Ba chert BBXY - Vein @ 45°					
16.76	60				A_3A_2	P	16.76					
17.67							17.67					
18.29	100				A_3	P	Purple E.O.H. 18.29m = 60'					
20												

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DRILL LOG

PROJECT: AL	ZONE: BV
HOLE NO.: A-86-81	
LOCATION: NORTHING 29233.00 / EASTING 17713.72	
LOGGED BY: L. ECCLES	
DATE: SEPT. 25/86	
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: Sept 25	
DATE COMPLETED: Sept. 25	
DIP TESTS: No	

GROUND ELEV: 1586.7	
BEARING: 020	
DIP: -45	
TOTAL LENGTH: FEET 64	METERS 19.50
HORIZONTAL PROJECT:	
VERTICAL PROJECT:	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

— BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

SULFIDES / MINERAL ABBREVIATIONS

PY — PYRITE

CPY — CHALCOPYRITE

GA — GALENA

SP — SPHALERITE

BA — BARITE

CA — CALCITE

QV — QUARTZ VEIN

QTZ — QUARTZ

VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: BV | HOLE NO. A-86-81

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS				
0																
1.52							CASING TO HERE (1.52m) = 5'									
					OVERBURDEN											
3.05							3.05									
	70%	1%	0	5% Py	A7		Basin related core loss	3.05	4.11	1.06	23326	7.65		2.8		
4.11							- pinkish core loss	4.11	4.61	0.5	23327	5.45		2.925		
							core loss	4.61	5.8	1.19	23328	1.45		1.125		1.16
							4.72 core loss	5.8	7.01	1.21	23329	2.15		2.60		
5																
	70					P		7.01	8.38	1.37	23330	0.65		0.89		
								8.38	9.75	1.37	23331	0.25		0.34		
					A7		pink	9.75	10.67	.92	23332	0.25		0.23		
7.01							- friable	10.67	12.4	1.73	23333	.25		.93		
	75	0						12.4	13.56	1.16	23334	0.40		.91		
														12.21		
8.38										10.51						
	80															
9.75	50															
10																
10.67					A7A2	Δ	pink-green									
	100					Δ										
12.4						Δ										
	100					Δ										
13.56					A2	Δ	13.56 - greyish									
	100				A3	P	Purple									
15																
19.50							E.O.H. 19.5m 64'									
20																

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DRILL LOG

PROJECT: AL	ZONE: BV
GROUND ELEV: 1591.9	
HOLE NO.: A-86-82	BEARING: 200
LOCATION: NORTHING 29265.50, EASTING 17710.2	DIP: -45°
	TOTAL LENGTH: FEET 63 / METERS 19.20
LOGGED BY: L. Eccles	HORIZONTAL PROJECT: 13.57
DATE: Sept 26/86	VERTICAL PROJECT:
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: Sept 25/86	
DATE COMPLETED: Sept 25/86	
DIP TESTS: No	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

△△△ — BRECCIATED

P. — PORPHYRITIC

— GUMBO (FAULT GOUGE)

— PEBBLY - BROKEN CORE

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SP — SPHALERITE

BA — BARITE

CA — CALCITE

QV — QUARTZ VEIN

QTZ — QUARTZ

VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: Bv | HOLE NO. A-86-82

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
3.05							CASING TO HERE 3.05m = 10'					
	100				A_3	P	Purple					
4.57					A_7A_2	Δ Δ	4.11	4.11	4.61		23335	0.05
								4.61	5.11		23336	0.25
5	100	TR	0	1%Py		Δ	Rusty	5.11	5.61		23337	0.45
						P Δ		5.61	6.11		23338	0.55
5.79						Δ	6.1	6.11	6.61		23339	20.95
	10						~~15 cm wide Ba vein + py+sp 70°-80° to core~~	6.61	7.11		23340	1.75
					A_7	Δ Broken core Δ	- chert BBX's - grey	7.11	7.61		23341	6.40
7.62								7.61	8.11		23342	7.45
	100						- massive chert - Grey	8.11	8.61		23343	32.76
9.14							~~100 - 10 cm wide Ba vein + few wide Ba stringers w/ py~~	8.61	9.11		23344	1.40
					A_7		- Ba veining w/ chert	9.11	9.61		23345	1.55
10								9.61	10.11		23346	29.20
							10.97	10.11	10.61		23347	22.95
								10.61	11.11		23348	3.75
	100						11.43	11.11	11.61		23349	1.35
					A_7		- Pink - Green	11.61	12.11		23350	2.0
							- fractured w/ Ba + chert veinlets	12.11	12.61		23351	6.95
13.71								12.61	13.11		23352	1.20
								13.11	13.71	0.60	23353	49.44
								13.71	14.21		23354	9.60
	80							14.21	14.71		23355	18.0
15								14.71	15.24		23356	3.20
15.24							15.7	15.24	15.74		23357	13.20
					A_7A_2	Δ Δ	- Pink - Green	15.74	16.74		23358	2.65
						Δ						
						Δ						
							19.7					
					A_3	P	Purple					
19.20							E.O.H. 19.20 m = 63'					
20												

MADE IN VANCOUVER, CANADA

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DRILL LOG

PROJECT: AL	ZONE: BV
HOLE NO.: A-86-83	
LOCATION: NORTHING 29303.66 / EASTING 17596.54	
LOGGED BY: L. ECCLES	
DATE: Sept 26/86	
CONTRACTOR: Thomas	
CORE SIZE: HQ	
DATE STARTED: Sept. 26	
DATE COMPLETED: Sept 26	
DIP TESTS: No	

GROUND ELEV	
BEARING: 200	
DIP: -45	
TOTAL LENGTH: FEET 80' / METERS 24.38	
HORIZONTAL PROJECT: 56.56' / 17.24m	
VERTICAL PROJECT	

ALTERATION SCALE

A_3 — VERY SLIGHT PROPYLITIC

A_2 — INTENSE CLAY ALTERATION

A_5 — INTENSE SILICIFICATION ± BARITE

A_7 — INTENSE SILICIFICATION + PYRITE ± BARITE

A_6 — INTENSE SILICIFICATION + HEMATITE

(IF COMBINATION OF ALTERATIONS — DOMINANT TYPE IS LISTED FIRST)

COMMENTS

ALL ANGLE MEASUREMENTS MADE WITH RESPECT TO CORE AXIS.

LEGEND

TEXTURE:

M — MASSIVE

F.G. — FINE GRAINED

△△ — BRECCIATED

P. — PORPHYRITIC

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VG — VISIBLE GOLD

TA — TALC

LI — LIMONITE

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PAGE 1 OF 1 | PROJECT: BV | HOLE NO. A-86-83

DEPTH (m)	% CORE REC	% BARITE	% POROSITY	TOTAL SULPHIDE	ALTERATION CODE	TEXTURE	DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
0												
3.65							CASING TO HERE 3.65m = 12'					
	10					o o		5.18	6.09		23359	0.95
						o o		6.09	7.92		23360	0.40
5 5.18								7.92	9.14		23361	0.40
	30					o		9.14	12.19		23362	0.40
6.09						o						
	50					broken core						
						o						
7.92						(core loss)		15.24	16.46		23363	0.15
8.22	100					o		16.46	18.29		23364	5.15
9.14	100				A7	P	Pinkish	18.29	19.81		23365	5.00
10												
11.46	20					o						
	10											
12.19							12.4					
	100				A3	P	pink 13					
					A2	P	- Gumbrosity - pinkish grey					
13.71	100											
15												
15.24												
	100				A7		pink - green					
16.46												
	100											
18.29												
							18.7 - chert = Barren BBx					
							19.81					
20					A3		20.42					
					A2	P	Greenish 21.03					
					A3	P	purple					
							↓ not to scale					
							24.38 EOH 80'					

APPENDIX D

TRENCH LOGS

TRENCH TA86-73 | ZONE BV Zone

Aug 15/86 JIA

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag		
TRENCH SEVENTY-THREE								
NE end 29271.08N								
EL 1593.2 17910.73E								
SW end 29246.91N								
EL 1589.9 17692.88E								
0 meters = NE end								
Total length = 30.5m								
Bearing = 032°								
Overburden ≤1.5m.								
Intermediate Points:								
	8.2	9.4	1.2	20083	0.5			
@ 14.1m 29259.07N	9.4	10.5	1.1	20084	25.3			-
EL 1591.1m 17703.28E	11.0	12.0	1.0	20085	0.4			
	12.0	13.0	1.0	20086	3.1			
	14.5	15.5	1.0	20087	1.5			
	15.5	16.6	1.1	20088	1.6			
	16.6	17.6	1.0	20089	2.3			
	17.6	18.0	0.4	20090	16.95			-
Panel Ba-Qtz vein panel	18.0	18.4	0.4	20091	29.2			-
	18.4	19.3	0.9	20092	9.0			-
GRAB @ 19.0m B-Qtz vein				20154	16.1			-
	19.4	20.4	1.0	20093	0.95			
	20.4	21.4	1.0	20094	0.3			
	21.4	22.4	1.0	20095	0.8			
	22.4	23.4	1.0	20096	1.7			
	23.4	24.6	1.2	20097	0.6			
	24.8	26.0	1.2	20098	1.8			
GRAB @ 26.3m.				20099	0.1			
	26.8	28.0	1.2	20100	0.5			
(TA86-136 to 125 to NW)								

N2/E2

TRENCH TA-86-74 | ZONE BV ZONE | 14/08/86 DATE

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag		
TRENCH SEVENTY-FOUR								
EAST END 29263.20 N 17713.44 E el 1591.8								
	3.2 m			20101	0.1			grab
WEST END 29245.01 N 17701.56 E el 1589.0	5.7 m			20102	0.12			grab
	7.4 m			20103	2.67			grab
	8.2	9.2	1.0	20104	6.6			
	9.2	10.1	0.9	20105	9.5			
MID POINT 29254.61 N 17708.42 E el 1590.3	10.4 m			20106	71.58			grab
	10.1	10.6	0.5	20107	25.8			
	10.6	11.6	1.0	20108	5.1			
	11.6	12.6	1.0	20109	0.2			
	12.6	13.7	1.1	20110	0.7			
TOTAL LENGTH = 22 m	13.7	14.9	1.2	20111	0.2			
BEARING = 0-10 m 080	14.7 m			20112	1.1			grab
10-21.8 m 036	15.4	16.5	1.1	20113	0.8			
ZERO AT NE END	16.5	17.6	1.1	20114	3.7			
	17.6	18.6	1.0	20115	0.7			
	18.6	19.8	1.2	20116	0.5			

N2/82

TRENCH TAB 75 | ZONE BV Zone | DATE Aug 16/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag		
TRENCH								
SEVENTY-FIVE								
NE end 29261.53 N								
EL 1591.0m 17718.53 E								
SW end 29241.83 N								
EL 1588.8m 17706.25 E								
0 meters = NE end								
Total Length = 23.1								
Bearing = 032°								
GRAB @ 2.3m.				20117	0.1			
GRAB @ 4.0m				20118	1.0			
GRAB @ 5.0m.				20119	0.26			
	5.4	6.7	1.3	20120	0.8			
	7.4	7.8	0.4	20121	1.1			
Bu-Qtz vein	7.8	8.5	0.7	20122	17.9			—
" " "	8.5	9.3	0.8	20123	95.3			—
	9.3	10.1	0.8	20124	61.66			—
GRAB @ 9.9m B-Qtz vein				20125	36.01			—
	10.1	11.6	1.5	20126	0.8			
	11.6	12.8	1.4	20127	1.15			
	12.8	13.9	1.1	20128	1.10			
	14.4	15.4	1.0	20129	0.1			
	16.0	16.6	0.6	20130	15.2			—
	16.6	17.4	0.8	20131	5.1			
	17.4	18.2	0.8	20132	1.6			
	18.2	19.0	0.8	20133	1.4			
	19.0	19.6	0.6	20134	1.1			
	19.6	20.6	1.0	20135	0.2			

N2/E2

TRENCH TA-86-76 | ZONE BV ZONE | DATE 86/08/15

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag		
TRENCH SEVENTY-SIX								
EAST END 29259.12N 17723.34E el 1590.4	3.2 m			20136	0.2			grab
	6.6	7.0	0.4	20137	39.78			"
MID POINT 29250.65N 17718.41E el 1589.3	7.0	8.2	1.2	20138	29.35			"
	8.2	9.4	1.2	20139	16.5			"
	9.4	9.8	0.4	20140	0.4			"
	9.9			20141	0.6			grab
WEST END 29239.99N 17710.53E el 1588.4	10.1	10.4	0.3	20142	0.5			
	10.4	10.7	0.3	20143	14.0			
	10.7	11.6	0.9	20144	0.8			
	11.6	12.7	1.1	20145	1.3			
	12.0	14.0	1.0	20146	0			
	14.0	15.0	1.0	20147	0.3			
	15.0	16.1	1.1	20148	1.2			
	16.1	17.2	1.1	20149	3.1			
	17.2	17.4	0.2	20150	16.8			panel
	17.4	18.6	1.2	20151	2.2			
	18.6	19.8	1.2	20152	0.1			
	21.0 m			20153	0			grab
TOTAL LENGTH = 23.3m								
BEARING = 0-9.8m 036								
9.8-23.3m 036								
ZERO AT NE END								
See also TA 86-125 to 136								

N2/E2

TRENCH LOG

TRENCH TA86-77 ZONE BV Zone DATE Aug 15/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag		
TRENCH SEVENTY-SEVEN								
NE end 29255.48 N								
EL 1589.6 17728.70 E								
SW end 29235.00N								
EL 1587.2 17714.08E								
0meters = NE end								
Total length = 24.8m								
Bearing 0-7m @008°								
7-24.8@036°								
Midpts @ 7m								
EL 1588.4 29249.28N								
17724.53 E								
	1.4	2.4	1.0	20155	0			
	2.4	3.2	0.8	20156	0.7			
	3.2	3.6	0.4	20157	0.5			
	3.6	4.4	0.8	20158	0.7			
	5.0	5.7	0.7	20159	1.2			
	5.7	6.4	0.7	20160	0.8			
	6.4	7.1	0.7	20161	9.3			-
Barite-Qtz vein	7.1	7.4	0.3	20162	6.9			-
	7.4	7.8	0.4	20163	1.6			
Barite-Qtz vein	7.8	8.2	0.4	20164	12.5			-
	8.2	9.0	0.8	20165	0.9			
Barite-Qtz vein	9.0	9.4	0.4	20166	98.49			-
	9.4	10.4	1.0	20167	0.6			
	10.4	11.6	1.2	20168	1.5			
	11.6	12.8	1.2	20169	0.6			
	12.8	13.8	1.0	20170	1.7			
	13.8	14.9	1.1	20171	16.0			-
	14.9	15.9	1.0	20172	2.7			
GRAB of Qtz-Ba vein @ 16.0m				20173	13.3			-
	15.9	17.0	1.1	20174	0.5			
	17.6	18.4	0.8	20175	0.7			
	18.4	19.4	1.0	20176	0.7			
	19.4	20.4	1.0	20177	0.2			
	20.4	21.4	1.0	20178	0.3			
	21.4	22.2	0.8	20179	6.4			-
Ba-Qtz vein panel	22.2	22.6	0.4	20180	7.9			-
GRAB @ 22.8m.				20181	2.3			

TRENCH TA-86-78 | ZONE BV ZONE | DATE 7/6/08 86

MINERALIZATION DESCRIPTION

TRENCH SEVENTY EIGHT

EAST END 29251.17 N
17734.75E
el 1588.3

WEST END 29218.48N
17726.97E
el 1583.3

TOTAL LENGTH = 33.8m
BEARING = 013°
ZERO AT NE END

SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag		
1.3	2.5	1.2	20182	0.05			
2.5	3.6	1.1	20183	0.3			
3.6	5.0	1.4	20184	4.2			
5.0	6.3	1.3	20185	6.35			
6.3	7.6	1.3	20186	0.95			
7.5 m			20187	1.2			grab
7.6	8.7	1.1	20188	21.05			
8.7	9.9	1.2	20189	3.5			
9.9	11.0	1.1	20190	2.0			
11.0	12.0	1.0	20191	0.6			
12.0	13.0	1.0	20192	0.4			
13.0	14.0	1.0	20193	1.0			
14.0	15.0	1.0	20194	1.8			
15.0	16.0	1.0	20195	0.6			
16.0	17.1	1.1	20196	3.4			
17.1	18.0	0.9	20197	9.2			
18.0	18.4	0.4	20198	24.3			BV = panel
18.4	18.7	0.3	20199	12.6			panel
18.8	19.9	1.1	20200	0.5			
20.2	21.2	1.0	20201	0.4			
21.2	22.2	1.0	20202	1.0			
22.2	23.2	1.0	20203	1.4			
23.2	24.3	1.1	20204	2.5			
24.3	25.3	1.0	20205	0.4			
25.3	26.5	1.2	20206	0.4			
26.5	27.7	1.2	20207	0.5			
27.7	28.7	1.0	20208	0.4			
28.7	29.7	1.0	20209	0.9			
29.7	30.7	1.0	20210	1.1			

N2/E2

TRENCH LOG

TRENCH TA86-79 | ZONE BV Zone | DATE 15/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
TRENCH SEVENTY-NINE									
N end 29248.23N									
EL 1587.1 17741.22E									
S end 29214.34N									
EL 1582.2 17735.22E									
0 meters = N end									
Total length = 34.8									
Bearing 0-27.7m @ 014°									
27.7-34.8 @ 355°									
Midpt @ 27.7m									
EL 1582.4m 29221.33N									
17734.66E									
	2.4	3.5	1.1	20227	0.1				
	3.5	4.3	0.8	20228	0.1				
	4.3	4.6	1.3	20229	0.2				
	4.6	5.5	0.9	20230	1.9				
	5.5	6.4	0.9	20231	0.8				
	6.9	7.5	1.1	20232	1.4				
	7.5	8.4	0.9	20233	1.2				
	8.4	9.2	0.8	20234	1.0				
	9.2	10.2	1.0	20235	1.4				
Barite-Qtz vein panel	10.0	10.6	0.6	20236	4.2				
	10.2	11.2	1.0	20237	1.2				
Barite-Qtz vein GRAB @11.0m				20238	5.3				
	11.2	12.0	0.8	20239	2.0				
	12.0	13.0	1.0	20240	1.5				
Barite-Qtz vein Panel	13.0	13.6	0.6	20241	15.6				-
	13.4	14.4	1.0	20242	1.0				
	14.4	15.6	0.8	20243	1.6				
Barite-Qtz vein Panel	15.6	16.0	0.4	20244	18.0				-
	15.8	16.5	0.7	20245	2.1				
	16.5	17.7	1.2	20246	3.55				
	17.7	18.8	1.1	20247	4.0				
	18.8	19.9	1.1	20248	1.0				
	19.9	21.1	1.2	20249	0.7				
	21.1	22.0	0.9	20250	0.2				
	22.0	23.0	1.0	20251	0.3				
	23.0	24.0	1.0	20252	0.9				
	24.0	24.8	0.8	20253	0.7				
	24.8	25.6	0.8	20254	2.1				
	25.6	26.4	0.8	20255	0.6				
	26.4	27.5	1.1	20256	1.1				
	27.5	28.5	1.1	20257	0.4				

TRENCH LOG

TRENCH TA86-79 | ZONE BV Zone | DATE Aug 15/86

MINERALIZATION DESCRIPTION		SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag		
		28.5	29.5	1.0	20258	0.7			
		29.5	30.5	1.0	20259	0.5			
		30.5	31.4	0.9	20260	0.5			
		31.4	32.2	0.8	20261	0.8			
		32.2	33.2	1.0	20262	0.5			

TRENCH TA-86-80 | ZONE BV ZONE | 17/04/86 DA

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS			
TRENCH EIGHTY								
EAST END 29237.94N 17744.28E el 1585.3								
WEST END 29216.81N 17741.02E el 1582.4								
TOTAL LENGTH = 21.6m; BEARING = 009 ZERO AT NE END	0.2	1.2	1.0	20263	0.3			panel
	1.2	2.0	0.8	20264	0.2			
	2.0	3.1	1.1	20265	0.1			
	3.1	3.5	0.4	20266	0.15			
	3.5	5.0	1.5	20267	0.1			
	5.0	5.7	0.7	20268	0.5			
	6.0m			20269	0.27			grab
	6.1	7.7	1.6	20270	1.1			
	7.7	8.8	1.1	20271	0.4			
	8.8	9.7	0.9	20272	2.7			
	8.9	9.4	0.5	20273	11.3			panel
	9.7	11.0	1.3	20274	3.0			
	11.0	11.9	0.9	20275	1.7			
	12.3	12.9	0.6	20276	0.6			
	13.5m			20277	1.05			grab
	14.0	15.1	1.1	20278	0.5			
	15.1	16.1	1.0	20279	0.4			
	16.1	17.1	1.0	20280	0.4			
	17.1	18.1	1.0	20281	17.3			—
	18.1	19.3	1.2	20282	3.1			
	19.7m			20283	0.8			grab

N2/82

TRENCH TA 86-81 | ZONE BV. | DA Aug 19/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS
TRENCH EIGHTY-ONE					
NE End 29376.76 N					
Elev 1614.8 m 17477.57E					
SW End 29349.69 N					
Elev 1601.1 m 17450.49E					
0 m @ NE End					
Overburden 0.5 - 1.0 m					
Total length - 38.5 m					
	4.3	4.6	0.3	20284	0.2
	4.6	6.6	2.0	20285	0.05
	6.6	8.0	1.4	20286	1.2
	8.0	9.4	1.4	20287	2.1
	17.7	18.6	0.9	20288	0.2
	23.5	25.0	1.5	20289	0.3
	32.6	33.6	1.0	20290	0.05

N2/E2

TRENCH 86-82 | ZONE BV | DATE Aug 19/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag
Trench Eighty-Two.						
NE End 29392.65N						
Elev: 1617.3m 17459.95E						
SW End 29374.3N						
Elev: 1613.3m 17438.33E						
NE end 0m.						
Total length 28.5m						
Overburden 1.0-1.5m						
Survey bearing: 050°						
	17.0	18.6	1.6	20291	0.30	

N2/E2

TRENCH 86-83 | ZONE BV

Aug 19

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	AS, Au? Au	Ag
Trench Eighty Three						
NE End 29405.22N						
Elev: 1617.0m 17424.00E						
SW End 29390.55N						
Elev: 1614.0m 17415.06E						
0m NE end						
Total length 17.1m	3.1	4.9	1.8	20292	020	

N2/E2

TRENCH LOG

TRENCH TA-86-92 | ZONE BONANZA RIDGE | 21/08/86 DATE

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag		
TRENCH NINTY-TWO								
EAST END N 31318.36	43.6m			20348	0.1			grab
E 19602.84	45.1m			20349	0.7			grab
el 1701.8	46.6	47.7	1.1	20350	2.55			
	47.7	48.8	1.1	20351	3.7			
WEST END N 31213.30	48.8	49.8	1.0	20352	2.05			
E 19495.95	49.8	50.9	1.1	20353	2.0			
el 1694.7	54.3m			20354	0.1			grab
	60.1m			20355	0			grab
	76.1m			20356	0.2			grab
0 metres = NE end	102.5m			20357	0			grab
total length = 150.5m	121.1m			20358	0.9			grab
	125.0m			20359	6.05			grab
overburden 1-1.5m								
Intermediate surveyed points								
(0-89.7m) 046°								
@ 90m N 31255.99 el. 1695.2								
E 19538.31								
(89.7-99.7m) 042°								
@ 100m N 31248.46 el. 1695.3								
E 19531.67								
(99.7-117.5m) . 047°								
@ 118m N 31236.35 el. 1694.9								
E 19518.56								
(117.5-149.8) 044°								
* intermediate elev's @ bottom of trench								

N2/E

M ER

TRENCH LOG

TRENCH TA 86-93 | ZONE BONANZA RIDGE | DATE Aug 30/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag			
TRENCH NINETY-THREE									
NE end N 31203.20 el. 1693.8 E 19485.66									
SW end N 31124.77 el. 1689.8 E 19409.03	11.1	12.3	1.2	20360	0.1				
	46.1	47.7	1.7	20361	0.1				
0 m = NE end	54.0 m			20362	0.05				grab
total length = 110.2 m	55.0 m			20363	0.05				grab
	55.9	57.1	1.2	20364	0.05				
overburden ≈ 1.5 m	58.7 m			20365	0.05				grab
	61.3 m			20366	0.05				grab
trench ≈ 0.6 m wide	94.8 m			20367	0.4				grab
	98.5 m			20368	4.4				grab
	103.5 m			20369	0.3				grab
Intermediate surveyed pts.									
(0-19.9m) 047°									
@ 20m N 31189.62 el. 1691.7 E 19471.18									
(19.9-54.6) 045°									
@ 55m N 31164.98 el 1690.1 E 19446.78									
(54.6-102.9m) 043°									
@ 103m N 31130.06 el. 1689.7 E 19413.89									
(102.9m-106.9m) 032°									
@ 107m N 31126.65 el. 1689.8 E 19411.78									
(106.9-110.2m) 056°									

N2/E2

TRENCH TA 86-94 | ZONE BONANZA-RIDGE | DATE 31/Aug/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag			
TRENCH NINETY-FOUR									
NE end N 31120.52									
E 19402.41									
el 1690.3	9.9 m			20370	0.1				grab
	10.7	11.5	0.8	20371	0.25				
SW end N 31071.04	13 9 m			20372	0.8				grab
E 19350.35	15.9	17.1	1.2	20373	0.2				
el 1687.3	31.0 m			20374	0.2				grab
	40.0 m			20375	0.05				grab
	51.3	52.4	1.1	20376	0.1				
NE end = 0 m	52.4	53.4	1.0	20377	0.6				
total length = 72.3 m	53.4	54.4	1.0	20378	2.3				
overburden ≈ 1-2 m.									
trench ≈ 0.6 m wide									
Intermediate surveyed pts.									
(0-29.7m) 045°									
@ 30m N 31099.42 el. 1689.2									
E 19381.45									
(29.7-54.5m) 049°									
@ 55m N 31083.09 el. 1687.1									
E 19362.81									
(54.5-71.8m) 046°									

N2/E2

TRENCH LOG

LOC TAB6-95 | ZONE Bonanza-Ridge | DATE Aug 30/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag
TRENCH NINETY-FIVE						
NE end 31077.34 N EL 1684.4 19521.46 E						
SW end 31058.66 N EL 1683.8 19500.43 E						
Ometers = NE end Total length = 28.05m. Bearing = 048°						
Overburden < 2m.						
Note: Trench was filled with water						
GRAB @ 15.0m (NW Sidewall)				20388	2.15	
GRAB @ 16.0m (")				20389	5.05	
GRAB @ 17.2m				20390	3.75	
GRAB @ 18.0m				20391	0.80	
GRAB @ 19.0m (NW Sidewall)				20392	0.95	
GRAB @ 20.0m (NW Sidewall)				20393	1.45	

TRENCH LOG

CH TA86-96 | ZONE Bonanza - Ridge | DATE Aug 30/86

MINERALIZATION DESCRIPTION	SAMPLE FROM	SAMPLE TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag
TRENCH NINETY-SIX						
NE end 31064.46 N EL 1684.0m 19529.69 E						
SW end 31043.12 N EL 1684.3m 19507.68 E						
0 meters = NE end						
Total length = 30.9m						
Surveyed Bearing = 046°						
Overburden <2m.						
GRAB @ minus 1.8m.	-1.8			20379	0.7	
	2.4	3.3	0.9	20380	1.6	
	3.3	4.3	1.0	20381	1.9	
	4.3	5.1	0.8	20382	3.6	
	5.1	5.7	0.6	20383	5.85	
GRAB @ 6.0m	6.0			20384	1.05	
	6.3	7.3	1.0	20385	6.55	
	7.3	8.4	1.1	20386	6.55	
	8.4	9.5	1.1	20387	3.45	
GRAB @ 14.3m	14.3			20394	1.35	
GRAB @ 14.7m.	14.7			20395	4.95	

TRENCH LOG

TRENCH TA 86-97 | BONANZA - RIDGE | 31/Aug/86

MINERALIZATION DESCRIPTION	SAMPLE FROM	SAMPLE TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag	
TRENCH NINETY-SEVEN							
NE end N 31064.45							
E 19529.69							
el 1683.9							
	2.4 m			20396	0.2		grab
SW end N 31043.12	7.1 m			20397	0.8		
E 19507.68	8.1 m			20398	0.8		
el 1683.4	9.1 m			20399	2.4		
	10.1 m			20400	1.1		
	11.2 m			20401	2.1		
0m @ NE end	12.1 m			20402	0.2		
total length ≈	13.1 m			20403	0.1		
NOTE: TRENCH FULL OF WATER	14.1 m			20404	0.1		grab

N2/E2

MA. E.

ER.

TRENCH LOG

CI TA86-98 | ZONE Bonanza-Ridge | DATE Aug 30/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag		
TRENCH NINETY-EIGHT								
NE end 31027.55 N EL 1681.8m 19538.11 E								
SW end 31015.76N EL 1681.4m 19524.47E								
0 meters = NE end Total Length = 18.0m Surveyed Bearing = 049°								
Overburden < 2m.								
NO SAMPLES TAKEN								

TRENCH LOG

TRENCH TA86-99 | ZONE Bonanza-Ridge | DATE Aug 30/86

MINERALIZATION DESCRIPTION		SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au			
TRENCH NINETY-NINE									
NE end 30918.26N EL 1675.9 19548.71E									
SW end 30914.44 N EL 1676.8 19538.85 E									
0 meters = NE end									
Total length = 10.6m									
Surveyed Bearing = 069°									
Overburden ≤ 1m									
NO SAMPLES TAKEN									

MADE IN VANCOUVER, CANADA

TRENCH LOG

TRENCH TA86-100 | ZONE Bonanza-Ridge | DATE Aug 30/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	Au	Ag			
TRENCH ONE HUNDRED									
NE end 31095.18 N EL 1685.0 19512.26 E									
SW end 31077.32 N EL 1684.2 19492.49 E									
0 meters = NE end Total Length = 27.1m. Surveyed Bearing = 048° Overburden ≤ 2m									
	minus 5.5	minus 6.0	0.5	20405	1.2				
	minus 6.0	minus 8.3	2.3	20406	3.05				
	minus 8.3	minus 9.3	0.9	20407	1.20				
	minus 9.2	minus 10.2	1.0	20408	2.90				2.9/5.4
	minus 10.2	minus 10.9	0.7	20409	5.80				

TRENCH LOG

TRENCH TA86-101 | ZONE Bonanza-Ridge | DATE Aug 30/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
TRENCH ONE HUNDRED AND ONE									
NE end 31117.14N EL 1686.0 19510.88E									
SW end 31099.70N EL 1685.3 19492.64E									
0 meters = NE end									
Total length = 25.2m									
Surveyed Bearing = 096°									
Overburden ≤2m									
	6.6	7.6	1.0	20410	1.7				
	7.6	8.6	1.0	20411	4.3				
	8.6	9.8	1.2	20412	7.2				6.1g/3.4m
	9.8	11.0	1.2	20413	6.5				

TRENCH LOG

TRENCH TA 86-102 DATE BONANZA - RIDGE 31 AUG 86

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag		
TRENCH ONE-HUNDRED-TWO								
NE end N 3112360								
E 19510.59								
el. 1686.3 m								
SW end N 31111.03	6.9	7.8	0.9	20414	1.40			
E 19496.65	7.8	8.7	0.9	20415	12.3		**	7.6 g/tonne
el 1686.0 m	8.2 m			20416	122.38		VISIBLE	bad grab
	8.7	9.6	0.9	20417	3.25			
	11.5 m			20418	0.50			grab
0m @ NE end	13.1	14.3	1.2	20419	1.75			
total length = 18.9 m	14.3	15.5	1.2	20420	3.80			
surveyed brg. = 048°	15.5	16.7	1.2	20421	1.40			
overburden ≈ 1.5 m								

N2/E2

MACKENZIE ER.

TRENCH LOG

TRENCH TA 86-103 | BONANZA RIDGE | 31 AUG 86

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag	
TRENCH ONE HUNDRED THREE							
NE end N 31132.32							
E 19508.17							
el 1686.9							
SW end N 31124.12							
E 19496.01	3.7 m			20423	8.1		grab
el 1686.7	4.6	5.7	1.1	20424	7.9		
	5.7	6.8	1.1	20425	9.5		
0 m @ NE end	8.9 m			20426	4.8		grab
total length = 15.0m	10.6 m			20427	0.41		grab
overburden = 1.5 m							
Intermediate pt.							
(0-6.9m) 051°							
@ 6.9m N 31127.94							
E 19502.79							
el 1685.3 m							
(6.9 - 14.7m) 061°							

N2/E2

MADE IN U.S.A.

TRENCH LOG

TRENCH TA86-104 | ZONE Bonanza-Ridge | DATE Aug 30/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag		
TRENCH ONE HUNDRED AND FOUR								
NE end 31119.22N EL 1685.9 19492.17E								
SW end 31110.76N EL 1685.3 19483.39E								
0 meters = NE end								
Total length = 12.5m.								
Surveyed Bearing = 046°								
Overburden ≤ 2m								
Trench filled with H_2O								
NO SAMPLES								

TRENCH LOG

TRENCH TA 86-105 | ZONE BONANZA RIDGE | DATE 31 Aug 86

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS		
TRENCH ONE HUNDRED FIVE							
NE end N 31100.72 E 19472.37 el 1684.4							
SW end N 31092.09 E 19462.32 el 1684.4	5.9m			20436	0.09		grab
0 m @ NE end total length = 13.2 surveyed brg. = 049°							
overburden ≈ 2.0 m							

N2/E2

TRENCH LC 3

TRENCH TA86-106 | ZONE Bonanza-Ridge | DATE Aug 30/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag			
TRENCH ONE HUNDRED AND SIX									
NE end 31140.30 N EL 1687.4 19507.64 E									
SW end 31130.89 N EL 1686.9 19493.76 E									
0 meters = NE end Total length = 16.6m Surveyed Bearing = 056°									
Overburden ≤ 2m									
GRAB @ 4.7m				20428	2.6				
	5.1	6.0	0.9	20429	134.09				
	6.0	6.8	0.8	20430	8.7				
GRAB @ 7.3m.				20431	2.05				
GRAB @ 6.0m				20422	561.48				* Visible gold grab *

TRENCH LOG

TRENCH TA 86-107 | ZONE BONANZA RIDGE | DATE 31 AUG 86

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au		
TRENCH ONE HUNDRED SEVEN							
NE end N 31146.28							
E 19506.12							
el 1688.4							
SW end N 31140.35	5.1	6.1	1.0	20432	24.66		×
E 19496.64	5.6	6.7	1.1	20433	14.2	*	* VISIBLE GOLD
el 1687.5	6.1	6.8	0.7	20434	6.6		
	6.8	8.2	1.4	20435	1.3		
0 m @ NE end							
total length = 11.3 m							
survey brg = 058°							
overburden ≈ 2.0 m							

N2/E2

TRENCH LOG

29108186

TRENCH TA-86-108 ZONE BONANZA RIDGE

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	WIDTH	SAMPLE NUMBER	Au	Ag	
TRENCH ONE HUNDRED-EIGHT							
W end 31092.8N 19610.90 el. 1685.4							
E end 31100.19 19650.77 el. 1691.17	22.1 m			20437	0.55		grab
	22.5	23.4	0.9	20438	2.3		
	23.4	24.4	1.0	20439	0.6		
	24.4	25.4	1.0	20440	6.0		
	25.4	26.4	1.0	20441	7.4		
	26.4	27.4	1.0	20442	0.5		
	27.4	28.4	1.0	20443	1.3		
	28.4	29.3	0.9	20444	1.2		
	29.3	30.0	0.7	20445	2.1		
	30.7 m			20446	0.4		grab
	31.1	31.7	0.6	20447	0.1		
	32.3 m			20448	0.3		grab
	32.6	33.5	0.9	20449	0.1		
	33.5	34.6	1.1	20450	.05		
	35.2 m			20451	.05		grab

TRENCH LOG

CH TA86-109 | ZONE Bonanza-Ridge | DATE Aug 30/8

MINERALIZATION DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag
TRENCH ONE HUNDRED AND NINE						
E end 31110.76N 16948.74E						
EL 1692.2						
W end 31107.98N 19622.45E						
EL 1689.8						
0 meters = E end						
Total length = 26.5m						
Bearing = 084°						
Overburden ≤ 2m						
	3.0	4.0	1.0	20452	3.7	
	4.0	5.1	1.1	20453	1.3	
	5.1	6.0	0.9	20454	6.1	
	6.0	7.0	1.0	20455	2.1	
	7.0	8.0	1.0	20456	0.9	
	8.0	9.0	"	20457	0.9	
	9.0	10.0	"	20458	3.9	
	10.0	11.0	"	20459	3.7	
	11.0	12.0	"	20460	2.6	
	12.0	13.0	"	20461	2.5	
	13.0	14.2	1.2	20462	1.5	
	14.2	15.3	1.1	20463	1.5	
GRAB @ 15.8m				20464	0.2	
GRAB @ 16.8m				20465	0.15	
	17.0	18.1	1.1	20466	1.0	
	18.1	19.2	1.1	20467	2.0	
GRAB @ 20.0m				20468	0.2	
GRAB @ 22.3m.				20469	0	

TRENCH LOG

TRENCH TA86-110 | ION Bonanza-Ridge | DATE Aug 30/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag
TRENCH ONE HUNDRED AND TEN						
E end 31120.09 N 19651.05 EL 1693.9						
W end 31114.12 N 19618.94 EL 1689.3						
0 meters = E end						
Total length = 33.0m						
Bearing = 283°						
Overburden ≤ 2m						
	6.5	7.6	1.1	20470	1.9	
	7.6	8.6	1.0	20471	0.5	
	8.6	9.6	1.0	20472	0.9	
	9.6	10.7	1.1	20473	2.3	
	11.0	12.5	1.5	20474	0.6	
	12.5	13.6	1.1	20475	0.7	
	13.6	14.6	1.0	20476	0.9	
	14.6	15.6	1.0	20477	1.0	
	15.6	16.4	0.8	20478	0.5	
	16.4	17.2	0.8	20479	0.5	
	17.2	18.2	1.0	20480	0.7	
GRAB @ 18.9m				20481	0.3	
	19.7	20.6	0.9	20482	0.1	
	20.6	21.8	1.2	20483	0.05	
	21.8	23.0	1.2	20484	0	
	23.0	24.0	1.0	20485	0	
	24.0	24.8	0.8	20486	0	
GRAB @ 25.2m				20487	0	
GRAB @ 26.8m				20488	.05	

N2/E2

TRENCH LOG

TRENCH TA-86-111 | ZONE BONANZA RIDGE | 29708186

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag
TRENCH ONE HUNDRED & ELEVEN						
W end 31125.52N 19608.97E el. 1688.1						
E end 31131.14N 19648.51E el. 1695.4						
C. BRK DBL						
NO SAMPLES						

N2/E2

TRENCH LOG

TRENCH 86-125	ZONE BV (Detail)	DATE 9/29

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
TRENCH 86-125 TWENTY-FIVE									
N END 29299.37N 17593.3E el. 1600.9									
S END 29266.03N 17583.39E el. 1596.3									
0 meters @ N end									
Length: 35.8 m									
Surveyed BRG:									
OB Depth: 1.0-1.8m									
GRAB	14			20585	0.65				
	7.2	8.2	1.0	20586	0.15				
	8.2	9.2	1.0	20587	0.40				
	9.2	10.2	1.0	20588	1.60				
	10.2	9.7	0.5	20589	11.05				53.4
	11.8	13.0	1.2	20590	54.78				1.2
	19.8	20.8	1.0	20591	0.15				
	21.2	22.5	1.3	20592	0.15				
	22.5	23.5	1.0	20593	0.75				
	23.5	24.5	1.0	20594	0.50				

TRENCH LOG

TRENCH 86-126	ZONE EV (Detail)	DATE

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
N. END 29302.79N 17604.78 el 1601.8									
S. END 29262.51N 17592.92 el 1592.8									
0 METRES AT N END	12.5			20595	0.60				GRAB
LENGTH 48.7m	13.3	14.3	1.0	20596	25.45				25.45/1.0
SURVEYED BRG.	14.3	15.3	1.0	20597	7.0				
OVERBURDEN 0.5 - 1.5m	15.3	16.3	1.0	20598	0.7				
	17.5			20599	13.8				GRAB
	17.5	19.2	1.7	20600	18.4				18.4/1.7
	19.2	20.2	1.0	20601	2.7				
	21.0			20602	5.6				GRAB
	22.2			20603	57.27				GRAB
	22.0	23.0	1.0	20604	6.80				
	23.0	24.0	1.0	20605	0.35				
	24.0	25.0	1.0	20606	0.25				
	26.0			20607	0.75				GRAB
	28.0			20608	0.20				GRAB
	29.5			20609	0.10				GRAB
	30.7			20610	0.10				GRAB
	32.3			20611	0.10				GRAB
	33.1			20612	0.05				GRAB
	38.5			20613	0.20				GRAB
	40.0	41.0	1.0	20614	0.10				
	42.5			20615	0.05				GRAB

TRENCH LOG

TRENCH 86-127 | ZONE BV (Detail) | DATE Sept/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag			
TRENCH ONE TWENTY-SEVEN									
N END 29298.92N 17609.80E el 1600.3									
S END 29259.62N 17598.56E el 1592.2									
0 meters @ N END									
LENGTH: 41.8m									
SURVEYED BEARING:									
OVERBURDEN: 0.6-1.5m.									
	9.2	10.2	1.0	20616	2.9				
	10.2	11.3	1.1	20617	2.5				
	11.3	12.3	1.0	20618	0.9				
	12.3	13.3	1.0	20619	4.3				
GRAB	13.4			20620	3.1				
	13.8	14.8	1.0	20621	2.6				
	14.8	15.8	1.0	20622	1.2				
	15.8	16.9	1.1	20623	3.2				
	17.3	18.4	1.1	20624	1.0				
	18.4	19.5	1.1	20625	1.4				29.68/2.1
	19.5	20.6	1.1	20626	47.61				
	20.6	21.6	1.0	20627	11.90				
	21.6	22.0	0.4	20628	0.05				OR 6.83/12.4
GRAB	28.7			20629	0.20				
	31.2	32.1	0.9	20630	0.20				
	32.1	33.0	0.9	20631	0.20				
	33.0	34.0	1.0	20632	0.25				
	34.0	35.0	1.0	20633	0.50				

TRENCH LOG

TRENCH 86-128 | ZONE BV (Detail) | DATE SEPT 6/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
N. END 29293.8N 17626.15 el. 1599.1	2.0			20634	0.40				GRAB
S. END 29256.09N 17611.93E el. 1591.5	9.0	10.0	1.0	20635	1.25				
0 METRES AT N. END	10.0	11.0	1.0	20636	11.85				
LENGTH 41.2m	11.0	12.0	1.0	20637	17.50				12.50/6m
SURVEYED BRG.	12.0	13.0	1.0	20638	29				or
OVERBURDEN 0.5 - 1.5m	13.0	14.0	1.0	20639	18.0				
	14.0	15.0	1.0	20640	18.0				13.65/5m
	15.0	16.0	1.0	20641	6.8				
									18/2m
	17.2			20642	0.3				GRAB
	22.4	23.4	1.0	20643	0.3				
	23.4	24.4	1.0	20644	1.5				
	24.4	25.4	1.0	20645	0.3				
	34.7			20646	0.7				GRAB
	36.2			20647	0.4				GRAB

TRENCH LOG

TRENCH 86-129 | ZONE EV (Detail) | DATE SEPT 6/86

MINERALIZATION DESCRIPTION		SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
TRENCH ON TWENTY NINE										
N END 29287.02N 17631.55 el 1597.8										
S END 29253.78N 17621.47 el. 1591.1										
0 meters @ N END										
LENGTH: 35.6 m										
SURVEYED BRG:										
OVERBURDEN: 1.0-1.5 m										
		4.1	5.2	1.1	20648	1.7				
		5.3	6.4	1.1	20649	29.93				
		6.4	7.5	1.1	20650	6.8				15.43/4.3
		7.5	8.6	1.1	20651	1.0				or
		8.6	9.6	1.0	20652	23.6				
		9.6	10.5	0.9	20653	0.4				31.05/1.1
		14.0	14.7	0.7	20654	1.1				and
		14.7	15.4	0.7	20655	0.6				23.6/1.0
		16.0	17.0	1.0	20656	2.6				
		17.0	17.9	0.9	20657	2.15				
GRAB		22.3			20658	0				
GRAB		24.2			20659	0.2				
		24.4	25.5	1.1	20660	0.2				
		25.5	26.5	1.0	20661	0.4				
		26.5	27.5	1.0	20662	0.95				

TRENCH LOG

TRENCH 86-130	ZONE EV (Detail)	DATE Sept 7

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
S END 29250.79N 17627.91E									
el. 1589.8	3.6			20663	4.55				GRAB
N END 29284.34N 17638.22E	4.5	5.5		20664	0.65				
el. 1597.6	5.5	6.5	1.0	20665	20.45				
0 METRES AT N. END	6.5	7.5	1.0	20666	14.40				17.43/2.0
LENGTH 35.0m	7.5	8.5	1.0	20667	3.1				
SURVEYED BRG. 017°	8.5	9.5	1.0	20668	0.4				
OVERBURDEN 0.5 - 1.5m									
	10.0			20669	0.1				GRAB
	14.9	15.9	1.0	20670	0.2				
	15.9	16.9	1.0	20671	1.2				
	17.8			20672	0.3				GRAB
	19.0			20673	0.1				GRAB
	20.3			20674	0.8				GRAB
	21.5			20675	0.7				GRAB
	26.4	27.4	1.0	20676	0.1				
	27.4	28.4	1.0	20677	0.1				
	28.4	29.4	1.0	20678	0.1				

TRENCH LOG

TRENCH TAE-6-131	ZONE BV	DATE SEPT 7/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
TRENCH ONE THIRTY-ONE									
N END 29280.68N 17644.01E el. 1597.0									
S END 29246.98N 17633.01E el. 1589.5									
0 meters @ N END									
LENGTH: 36.4									
SURVEYED BRG:									
OVERBURDEN: 0.5-1.2 m.									
GRAB	2.8			20679	21.2			46.28	
	3.0	4.3	1.3	20680	35.6			10.82	26.16/2.6
	4.3	5.0	0.7	20681	15.45			10.92	
	5.0	5.6	0.6	20682	18.2				
	5.6	6.7	1.1	20683	5.75				20.09/3.7
GRAB	6.9			20684	0.75				
	7.1	8.3	1.2	20685	1.05				
	8.3	9.5	1.2	20686	0.65				
GRAB	11.6			20687	0.25				
	13.3	14.1	0.8	20688	0.15				
	14.1	14.9	0.8	20689	0.65				
PANEL	14.9	15.2	0.3	20690	15.15				
	15.2	16.2	1.0	20691	0.40				
	16.2	16.9	0.7	20692	0.05				
	16.9	17.5	0.6	20693	0				
GRAB	25.5			20694	0.25				
GRAB	26.9			20695	0.15				

TRENCH LOG

TRENCH	TA. 86-B2	ZONE	BV. DETAIL	DATE	SEPT/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
N. END. 29287.22 N 17655.19E									
el. 1597.8	2.6	3.6		20696	4.55				
S. END. 29245.30 17638.74	3.6	4.6		20697	4.4				
el. 1589.4	4.6	5.6		20698	5.05				
0 METRES at N. END									
	6.8			20699	0.55				GRAB
LENGTH 47.1m									
SURVEYED BRG.	8.0			20700	97.04				GRAB
OVERBURDEN 1.0-2.0m									
	8.8	9.8		20701	1.35				
	9.8	10.8	1.0	20702	20.95				14.95/3.0
	10.8	11.8	1.0	20703	8.55				
	11.8	12.8	1.0	20704	15.35				
	14.4			20705	16.15				GRAB
	17.1			20706	1.85				GRAB
	18.4			20707	0.8				GRAB
	19.0	20.0	1.0	20708	2.15				
	20.0	21.0	1.0	20709	0.55				4.49/5.0
	21.0	22.0	1.0	20710	4.40				
	22.0	23.0	1.0	20711	13.75				
	23.0	24.0	1.0	20712	1.60				
	25.7			20713	1.85				GRAB
	38.0	39.0		20714	0.41				

TRENCH LOG

TRENCH TA86-133 | ZONE BV | DATE Sept 7/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag			
TRENCH ONE THIRTY-THREE									
N END: 29283.16N 17672.37E el 1596.5									
S END: 29240.25N 17651.29E el 1588.5									
0 meters @ N end									
Length: 48.7 m									
Surveyed Bearing:									
Overburden: 0.5'-1.2 m									
	7.1	8.1	1.0	20715	0.6				
	8.1	8.8	0.7	20716	3.6				
	8.8	9.8	1.0	20717	19.2				
	9.8	10.8	1.0	20718	1.10				
	10.8	11.8	1.0	20719	3.5				
	11.8	13.2	1.4	20720	3.7				
	13.2	14.2	1.0	20721	6.3				6.35/9.7
	14.2	15.2	1.0	20722	13.8				
	15.2	16.1	0.9	20723	4.3				(19.2/1.0)
	16.1	17.0	0.9	20724	2.2				
	17.0	17.8	0.8	20725	5.3				
	18.4	19.4	1.0	20726	1.35				
	19.4	20.3	0.9	20727	0.5				
GRAB	22.1			20728	0.05				
	22.5	23.4	0.9	20729	0.6				
	23.4	24.3	0.9	20730	0.5				
	24.3	25.2	0.9	20731	4.95				4.98/1.8
	25.2	26.1	0.9	20732	5.0				
GRAB	27.8			20733	0.15				
	29.3	30.4	1.1	20734	0.05				
	30.4	31.6	1.2	20735	0.50				
	37.3	38.2	0.9	20736	0.50				
	40.2	41.4	1.2	20737	0.20				
	41.4	42.5	1.1	20738	0.15				

TRENCH LOG

TRENCH TA-86-134	ZONE BV (DETAIL)	DATE SEPT 8

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
N. END 29276.80 17677.53E									
el. 1595.5m	1.3	2.3		20739	2.15				
S. END 29235.80N 17656.76E	2.3	3.3		20740	5.20				
el. 1588.0m	3.3	4.3		20741	15.20				
	4.3	5.3		20742	2.8				7.34/12.0
0 METRES - N END	5.3	6.3		20743	3.85				
SURVEYED BRG.	6.3	7.3		20744	9.35				
LENGTH 45.9m	7.3	8.3		20745	3.05				
OVERBURDEN - 0.5-2.0m	8.3	9.3		20746	2.25				
	9.3	10.3		20747	5.45				
	10.3	11.3		20748	17.35				
	11.3	12.3		20749	18.30				18.02/2.0
	12.3	13.3		20750	2.70				
	14.0			20751	0.6				GRAB
	15.0			20752	9.10				GRAB
	16.0			20753	6.20				GRAB
	16.6	17.6		20754	2.50				
	18.5			20755	0.8				GRAB
	20.0	21.0		20756	0.4				
	21.0	22.0		20757	0.5				
	22.0	23.0		20758	0.4				
	24.0			20759	4.7				
	25.2			20760	0.4				
	29.0			20761	0.05				
	31.6			20762	0.30				
	37.6			20763	0.20				
	39.5			20764	0.05				

TRENCH LOG

TRENCH TA 96-135 | ZONE BV | DATE [illegible]

MINERALIZATION DESCRIPTION	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS Au	Ag			
[illegible] ON THIRTY LINE									
N END 29274.65N 1768.51E									
@ 1590.2									
S END 29229.38N 1763.85E									
@ 1586.7									
CHAIN @ N END									
LENGTH: 50.3m									
SURVEYED BRG:									
OVERBURDEN 1.0-1.8m									
	0.9	1.8	0.9	20765	0.15				
	1.8	2.7	0.9	20766	0.40				
GRAB	4.3			20767	1.0				
GRAB	6.2			20768	0.15				
GRAB	9.9			20769	0.15				
	13.4	14.0	0.6	20770	3.45				
	14.0	15.0	1.0	20771	28.79				
	15.0	16.0	1.0	20772	2.95				
	16.0	16.9	0.9	20773	19.20				
	16.9	17.8	0.9	20774	2.15				11.1/8.9 incl 17.51/2.9
	17.8	18.7	0.9	20775	3.40				
	18.7	19.6	0.9	20776	14.65				
	19.6	20.5	0.9	20777	9.85				
	20.5	21.4	0.9	20778	14.25				
	21.4	22.3	0.9	20779	3.45				
	22.3	23.3	1.0	20780	1.75				
	23.3	24.3	1.0	20781	0.40				
	24.3	25.3	1.0	20782	2.0				
GRAB	26.1			20783	0.15				
GRAB	28.0			20784	0.55				
	29.3	30.6	1.3	20785	1.75				
GRAB	32.0			20786	0.20				
GRAB	38.3			20787	0.15				

TRENCH LOG

TRENCH TR 86-14 | ZONE BV TO TAIL | DATE [illegible]

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
N END 29275.7N 17687.9E el 1595.1m	0.3			20788	0.15				GRAB
S END 29227.65N 17610.01E el. 1586.6m	1.0			20789	1.10				GRAB
0 METERS @ N.END	8.3			20790	0.20				GRAB
SURVEYED BRG:									
LENGTH: 53m	9.5			20791	1.90				GRAB
OVERBURDEN: 1.0-2.0m									
	10.5			20792	0.50				GRAB
	11.5			20793	0.05				GRAB
	12.7			20794	0.20				GRAB
	13.7			20795	0.60				GRAB
	14.4			20796	0.10				GRAB
	16.0	17.0		20797	0.40				
	17.0	18.0		20798	0.80				
	18.0	19.0		20799	1.10				
	19.0	20.0		20800	58.1				
	20.0	21.0		20801	42.15				
	21.0	22.0		20802	45.1				
	22.0	23.0		20803	41.65				
	23.0	24.0		20804	6.2				
	24.0	25.0		20805	10.9				
	25.0	26.0		20806	31.45				
	26.0	27.0		20807	2.2				
	27.0	28.0		20808	1.8				
	28.0	29.0		20809	0.4				
	29.0	30.0		20810	0.45				
	38.1			20811	0				GRAB
	39.6			20812	0				GRAB
	43.3			20813	0.50				GRAB

TRENCH LOG

TRENCH TA86-139	ZONE BONANZA	DATE SEPT 20/86

MINERALIZATION DESCRIPTION	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
E end 31084.12 N									
19635.5 E									
elev: 1687.8 m									
W end. 31080.20 N									
19614.42 E									
elev: 1685.1 m									
0 metres @ E end.									
Length: 21.6 m									
Surveyed bearing: 0°									
Overburden: 1.5 - 2.2 m.									
	3.0	3.8	0.8	20814	0.05				
	3.8	4.6	0.8	20815	0.05				
	5.9			20816	0.08				GRAB
	11.8			20817	0.77				GRAB
	14.6	15.6	1.0	20818	1.3				
	15.6	16.6	1.0	20819	1.5				
	17.0			20820	0.18				GRAB

TRENCH TA86-140 | ZONE BONANZA | DATE SEPT 20/86

MINERALIZATION DESCRIPTION		SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au	ASSAYS Ag			
W end: 31068.11 N										
19617.37 E.										
elev: 1684.6 m										
E end: 31068.38										
19634.67 E										
elev: 1685.8										
0 meters @ E end										
Length: 17.3 m										
Surveyed brg: [illegible]										
Overburden: 1.2 - 1.8 m										
		10.9			20821	0.23				GRAB

N2/E2

MADE IN VANCOUVER, CA

APPENDIX E

ASSAY CERTIFICATES

CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

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.

CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86300
Date: September 16, 1986
Proj.: A1

Attn: A. D. Birkeland cc. G. Sivertz

		Au g/t
23077	A86.64 ✓	1.75
23078		3.35
23079		2.25
23080		3.75
23081		2.65
23082		3.60
23083		7.75
23084	A86.65 ✓	2.40
23085		0.40
23086		0.80
23087		1.35
23088		0.80
23089		0.80
23090		0.55
23091		0.55
23092		0.15
23093		0.15
23094		0.05
23095		2.35
23096		0.25
23097		1.75
23098		2.20
23099	A86.66 ✓	2.15
23100		0.80
23101		3.60
23102		5.75
23103		20.75
23104		1.75
23105		1.20
23106		0.15
23107		0.10

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CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86331
Date: September 26, 1986
Proj.: A1

Attn: A. O. Birkeland

		Au g/t
23146		5.75
23147	A86.70 ✓	10.80
23148		6.25
23149		2.40
23150		6.80
23151		0.80
23152		0.25
23153		1.05
23154	A86.71 ✓	2.25
23155		0.95
23156		2.15
23157		0.95
23158		2.25
23159		3.20
23160	A86.72 ✓	4.45
23161		2.95
23162		1.85
23163		1.75
23164		1.45
23165		1.80
23166		1.05
23167		1.35
23168		2.40
23169		0.55
23170		0.55
23171		0.45
23172	A86.73 ✓	0.40
23173		1.75
23174		0.40
23175		0.15
23176		0.25
23177		34.65
23178		0.65
23179		3.05
23180		1.45
23181		6.80
23182		0.25
23183		0.40
23184		5.95
23185		2.40

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CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 · TEL (604) 946-4448

** ASSAY REPORT **

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

Attn: A. O. Birkeland

Number: 86331
Date: September 26, 1986
Proj.: A1

		Au g/t
23146		5.75
23147	A86.70 ✓	10.80
23148		6.25
23149		2.40
23150		6.80
23151		0.80
23152		0.25
23153		1.05
23154	A86.71 ✓	2.25
23155		0.95
23156		2.15
23157		0.95
23158		2.25
23159		3.20
23160	A86.72 ✓	4.45
23161		2.95
23162		1.85
23163		1.75
23164		1.45
23165		1.80
23166		1.05
23167		1.35
23168		2.40
23169		0.55
23170		0.55
23171		0.45
23172		0.40
23173	A86.73 ✓	1.75
23174		0.40
23175		0.15
23176		0.25
23177		34.65
23178		0.65
23179		3.05
23180		1.45
23181		6.80
23182		0.25
3183		0.40
3184		5.95
23185		2.40

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CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 TEL (604) 946-4448

** ASSAY REPORT **

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

Number: 86331
Date: September 26, 1986
Proj.: A1

Attn: A. O. Birkeland

		Au g/t
23186		0.25
23187		6.80
23188		60.20
23189		9.25
23190	A86.73 ✓	22.60
23191		4.40
23192		1.20
23193		1.20
23194		1.70
23195		0.40
20814		0.05
20815	TA86.139 ✓	0.05
20818		1.30
20819		1.50
20823		2.30
20824		4.60
20825		0.90
20826		0.30
20827		0.75
20828	TA86.137 ✓	0.80
20829		0.40
20830		0.40
20831		0.45
20832		0.20
20833		0.30

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** ASSAY REPORT **

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

Number: 86335
Date: September 30, 1986
Proj.: A1

Attn: A. D. Birkeland

		Au g/t
23196		5.05
23197		0.55
23198		33.80
23199		3.35
23200	A86-74 ✓	0.80
23201		3.35
23202		0.40
23203		1.35
23204		3.05
23205		<0.05
23206		0.65
23207		0.05
23208		1.20
23209		6.00
23210		2.00
23211		15.60
23212		7.85
23213		28.85
23214		13.35
23215		36.85
23216		4.65
23217		1.00
23218	A86-75 ✓	0.65
23219		1.25
23220		29.60
23221		7.45
23222		3.05
23223		1.85
23224		1.05
23225		3.05
23226		0.40
23227		0.15
23228		0.40
23229		0.15
23230		1.20
23231		1.45
23232		0.15
23233		0.80
23234	A86-76 ✓	0.65
23235		0.25

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** ASSAY REPORT **

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

Number: 86335
Date: September 30, 1986
Proj.: A1

Attn: A. O. Birkeland

		Au g/t
23236		0.95
23237		0.80
23238		8.00
23239	A86-76 ✓	4.65
23240		0.55
23241		14.80
23242		4.80
23243		0.15
23244		1.95

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*** ASSAY REPORT ***

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

Number: 86225
Date: July 30, 1986
Proj.: A1

Attn: A. O. Birkland cc. George Sivertz

		Au g/t
18033		<0.05
18034		<0.05
18035		<0.05
18036		<0.05
18037	A86-19 ✓	<0.05
18038		2.80
18039		2.65
18040		0.55
18041		0.25
18042		0.05
18043		0.05
18044		1.60
18045		1.35
18046		2.00
18047		5.85
18048		4.60
18049		1.25
18050		0.75
18051		0.65
18052	A86-20 ✓	4.25
18053		17.25
18054		3.85
18055		7.85
18056		0.55
18057		0.05
18058		1.45
18059		5.35
18060		2.40
18061		3.45
18062		1.45
18063		0.40
18064		0.25
18065		1.85
18066		1.35
18067		0.25
18068		0.10
18069		0.40
18070		0.10
18071	A86-21 ✓	0.05
18072		0.10

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** ASSAY REPORT **

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

Number: 86285
Date: September 8, 1986
Proj.: A1

Attn: A. D. Birkeland cc. G. Sivertz

		Au g/t	
18971		25.45	
18972		11.75	
18973	A86.58 ✓	1.85	
18974		2.55	
18975		5.20	
18976		8.55	
18985		2.00	
18986		4.65	
18987	A86.59 ✓	8.15	
18988		92.00	
18989		46.25	
18990		0.25	
20379		0.70	
20380	TA86-96 ✓	1.60	
20381		1.90	
20382		3.60	
20396		0.20	
20397		0.80	
20398		0.80	
20399		2.40	
20400	TA86-97 ✓	1.10	
20401		2.10	
20402		0.20	
20403		0.10	
20404		0.10	
20418		0.50	
20419		1.75	
20420	TA86-102 ✓	3.80	
20421		1.40	
20422	TA86-106 ✓	555.8	VG
20423	TA86-103 ✓	8.10	
20424		7.90	
20432		21.55	VG
20433	TA86-107 ✓	14.20	
20434		6.60	
20435		1.30	
20438		2.30	
20439		0.60	
20440	TA86-108 ✓	6.00	
20441		7.40	

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86298
Date: September 11, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

	Au g/t	
4A Muck 143	14.10	VG
4A Muck 144	16.60	VG
4A Muck 145	24.50	VG
4A Muck 146	59.20	VG
4A Muck 147	33.80	VG
4A Muck 148	31.85	VG
4A Muck 149	16.35	VG
4A Muck 150	56.70	VG
4A Muck 151	11.45	VG
4A Muck 152	25.25	VG
4A Muck 153	14.95	VG
4A Muck 154	31.80	VG
4A Muck 155	21.90	VG
4A Muck 156	4.95	
4A Muck 157	34.45	VG
4A Muck 158	29.50	VG
Bonanza Muck 13	48.50	VG
Bonanza Muck 14	276.8	VG
Bonanza Muck 15	15.80	VG
Bonanza Muck 16	761.8	VG
Bonanza Muck 17	31.00	VG
Bonanza Muck 18	52.65	VG
Bonanza Muck 19	38.20	VG
18962	1.60	
18963	2.00	
18964	3.05	
18965	2.40	
18966	4.00	A86.57 ✓
18967	1.45	
18968	4.25	
18969	5.60	
18970	1.60	
18977	0.25	
18978	1.75	
18979	3.35	
18980	27.40	A86.58 ✓
18981	3.45	
18982	0.55	
18983	0.15	

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CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 TEL (604) 946-4448

** ASSAY REPORT **

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

Number: 86296
Date: September 11, 1986
Proj.: A1

Attn: A. D. Birkeland cc. G. Sivertz

		Au g/t	
18984	A86.58 ✓	0.55	
18991		1.45	
18992		4.65	
18993		4.15	
18994		1.60	
18995	A86.60 ✓	1.75	
18996		3.35	
18997		14.50	
18998		6.95	
18999		3.45	
19000		2.25	
23001		2.25	
23002		1.45	
23003		20.75	
23004		1.45	
23005		2.25	
23006		0.80	
23007		2.80	
23008	A86.60 ✓	0.95	
23009		1.05	
23010		2.00	
23011		16.80	
23012		1.45	
23013		1.35	
23014		1.45	
23015		1.20	
23016		1.20	
23017		3.35	
23018		3.85	
23019		4.55	
23020		4.25	
23021		2.65	
23022	A86.61 ✓	2.25	
23023		3.20	
23024		3.05	
23025		3.35	
23026		1.85	
3027		2.55	
23028		2.15	
23029		38.25	VG

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CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL (604) 946-4448

** ASSAY REPORT **

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

Number: 86296
Date: September 11, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t	
23030	A86-61	11.30	
23031		1.60	
23032		5.35	
23033		6.80	
23034		2.00	
23035		1.60	
23036		10.15	
23037		0.80	
23038		3.20	
23039		0.40	
23040		0.15	
23041		0.15	
23042		0.40	
23043		25.60	VG
23044		52.00	VG
23045		1.35	
20383	TA86-96	5.85	
20384		1.05	
20385		6.55	
20386		6.55	
20387		3.45	
20388	TA86-95	2.15	
20389		5.05	
20390		3.75	
20391		0.80	
20392		0.95	
20393		1.45	
20394	TA86-96	1.35	
20395		4.95	
20405	TA86-100	1.20	
20406		3.05	
20407		1.20	
20408		2.90	
20409		5.80	
20410	TA86-101	1.70	
20411		4.30	
20412		7.20	
20413		6.50	
20414	TA86-102	1.40	
20415		12.30	

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CDN RESOURCE LABORATORIES LTD.
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** ASSAY REPORT **

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

Number: 86300
Date: September 16, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
23077	A86.64 ✓	1.75
23078		3.35
23079		2.25
23080		3.75
23081		2.65
23082		3.60
23083		7.75
23084	A86.65 ✓	2.40
23085		0.40
23086		0.80
23087		1.35
23088		0.80
23089		0.80
23090		0.55
23091		0.55
23092		0.15
23093		0.15
23094		0.05
23095		2.35
23096		0.25
23097		1.75
23098		2.20
23099	A86.66 ✓	2.15
23100		0.80
23101		3.60
23102		5.75
23103		20.75
23104		1.75
23105		1.20
23106		0.15
23107		0.10

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CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL (604) 946-4448

** ASSAY REPORT **

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

Number: 86300
Date: September 16, 1986
Proj.: A1

Attn: A. D. Birkeland cc. G. Sivertz

		Au g/t	
20553	TA86-120 ✓	0.05	
20554		2.00	
20556		0.40	
20557	TA86-121 ✓	0.15	
20558		<0.05	
20559		<0.05	
20563	TA86-122 ✓	<0.05	
20564		0.25	
20567	TA86-123	0.05	
23046		2.25	
23047		20.20	
23048		10.80	
23049		44.80	
23050		12.40	
23051	A86.62 ✓	1.85	
23052		1.35	
23053		1.05	
23054		0.25	
23055		0.35	
23056		0.25	
23057		0.95	
23058	A86.63 ✓	4.05	
23059		1.45	
23060		17.15	VG
23061		5.35	
23062		7.75	
23063		3.35	
23064		2.95	
23065		3.85	
23066	A86.64 ✓	2.00	
23067		0.95	
23068		0.65	
23069		0.80	
23070		1.20	
23071		0.55	
23072		8.00	
23073		5.60	
23074		1.75	
23075		2.00	
23076		2.80	

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

** ASSAY REPORT **

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

Attn: A. O. Birkeland

Number: 86328
Date: September 25, 1986
Proj.: A1

		Au g/t	
20796		0.10	
20797		0.40	
20798		0.80	
20799		1.10	
20800		58.10	
20801		42.15	
20802		45.10	
20803	TA86-136 ✓	41.65	
20804		6.20	
20805		10.90	
20806		31.45	
20807		2.20	
20808		1.80	
20809		0.40	
20810		0.45	
20811		<0.05	
20812		<0.05	
20813		0.50	
23108		0.15	
23109		3.75	
23110		363.5	VG
23111		23.35	
23112	A86.67 ✓	29.00	
23113		7.05	
23114		2.00	
23115		0.95	
23116		0.75	
23117		10.65	
23118		10.15	
23119		12.25	
23120	A86.68 ✓	144.6	VG
23121		21.95	
23122		14.00	
23123		5.05	
23124		0.40	
23125		2.00	
23126		0.55	
23127	A86.69 ✓	5.05	
23128		2.80	
23129		3.05	

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CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

*** ASSAY REPORT ***

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

Number: 86223
Date: July 27, 1986
Proj.: A1

Attn: A. O. Birkland cc. George Sivertz

		Au g/t	
16848		3.85	
16849		56.20	VG
16850	A86.13✓	92.35	VG
16851		28.00	VG
16852		0.95	
16853		0.55	
16854		<0.05	
16855		0.25	
16856	A86.14✓	0.10	
16857		<0.05	
16858		<0.05	
16859		3.60	
16860		0.65	
16861		3.75	
16862		4.25	
16863	A86.15✓	6.40	
16864		2.55	
16865		0.45	
16866		0.55	
16867		0.10	
16868		<0.05	
16869		<0.05	
16870		<0.05	
16871	A86.16✓	0.40	
16872		0.40	
16873		2.00	
16874		5.25	
16875		3.20	
18001		0.10	
18002	A86.16✓	0.10	
18003		<0.05	
18004		<0.05	
18005		0.10	
18006		0.10	
18007		0.05	
18008	A86.17✓	1.20	
18009		0.25	
18010		0.40	
18011		0.55	
18012		<0.05	

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CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL (604) 946-4448

*** ASSAY REPORT ***

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

Number: 86223
Date: July 27, 1986
Proj.: Al

Attn: A. O. Birkland cc. George Sivertz

	Au g/t	
18013	0.10	
18014	3.20	
18015	0.95	
18016	<0.05	
86 GS 37	90.35	VG
86 GS 38	9.20	
86 GS 39	2.20	
86 GS 40	70.05	VG
86 GS 41	2.00	
86 GS 42	27.20	VG
86 GS 43	18.70	VG
86 GS 44	5.50	
86 GS 45	4.30	
86 GS 46	9.05	
86 GS 47	1.60	
86 GS 48	37.30	VG
86 GS 49	2.10	
86 GS 50	7.50	
86 GS 51	43.00	VG
86 GS 52	4.90	
86 GS 53	7.70	
86 GS 54	4.60	
86 BK 096	2.10	
86 BK 097	3.60	
86 BK 098	1.40	
86 BK 099	3.10	
86 BK 100	164.9	VG
86 BK 101	3.80	
86 BK 102	1.30	
86 BK 103	35.70	VG
86 BK 104	40.45	
86 BK 105	2.60	
86 BK 106	2.10	
86 BK 107	8.00	
86 BK 108	2.00	

A86-17 ✓

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CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

*** ASSAY REPORT ***

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

Number: 86225
Date: July 30, 1986
Proj.: A1

Attn: A. O. Birkland cc. George Sivertz

		Au g/t
19757		0.70
19758		0.20
19759		0.30
19760	TA86-20 ✓	0.60
19761		1.10
19762		0.50
19763		0.90
19764		0.70
19765		0.30
19766	TA86-22 ✓	0.50
19767		1.20
19768		1.40
19771		0.80
19772		1.20
19773		1.70
19774		1.40
19775		0.30
19776	TA86-25 ✓	0.40
19777		1.00
19778		0.50
19779		0.70
19780		0.20
19781		0.30
19783	TA86-18 ✓	1.90
18017		<0.05
18018		0.05
18019		0.75
18020		0.10
18021		0.05
18022	A86-18 ✓	0.35
18023		0.10
18024		0.20
18025		0.05
18026		<0.05
18027		<0.05
18028		0.05
18029	A86-19 ✓	<0.05
18030		<0.05
18031		0.05
18032		0.05

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** ASSAY REPORT **

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

Number: 86272
Date: August 26, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20283	TA86-80	0.80
20284		0.20
20285		0.05
20286		1.20
20287	TA86-81	2.10
20288		0.20
20289		0.30
20290		0.05
20291	TA86-82	0.30
20292	TA86-83	0.20
20148	TA86-76	1.20
20149		3.10
20155	TA86-77	<0.05
20156		0.70

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** ASSAY REPORT **

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

Number: 86261
Date: August 18, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t	
Bonanza Muck 11		10.20	
Bonanza Muck 12		198.2	VG
86 BK 169 -	TA86-84	3.80	
86 BK 177 -	TA86-85	2.10	
86 BK 180 -	TA86-86	1.45	
86 BK 182 -	TA86-87	3.60	
86 BK 186	TA86-88	2.30	
86 BK 187		3.20	
86 BK 188		1.30	
86 BK 189 -	TA86-89	1.40	

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86277
Date: August 27, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20248		1.00
20249		0.70
20250	TA86-79 ✓	0.20
20251		0.30
20252		0.90
20253		0.70
20254		2.10
20270	TA86-80 ✓	1.10
20293		2.50
20294		1.20
20295		0.70
20296		0.60
20297		1.30
20298	TA86-84 ✓	3.70
20299		4.95
20300		1.80
20301		1.40
20302		1.70
20303		0.40
20304		0.15
20305		0.05
15867	CA86-1006 ✓	8.40
15868	CA86-1007 ✓	10.50
15869	CA86-1008 ✓	4.20
15870		4.90
15871		3.50
15872	CA86-1009 ✓	1.90
15873		2.90
15874		12.00
15875		4.80

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

**** ASSAY REPORT ****

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

Number: 86279
Date: August 28, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20307	TA86-85 ✓	3.50
20308		1.60
20310		4.20
20311		0.90
20312		0.50
20313		0.10
20314		0.20
20315		0.15
20316		0.20
20317		<0.05
20318	TA86-86 ✓	1.70
20319		1.40
20320		0.20
20321		0.15
20322		0.10
20323		0.10
20325	TA86-87 ✓	2.20
20326		0.50
20327		0.70
20328		0.60
20329		1.00
20330		1.80
20331		0.40
20332		0.10
20333	TA86-88 ✓	<0.05
20334		3.80
20335		1.60
20336		2.90
20339	TA86-89 ✓	1.95
20340		2.90
20341		1.40
20342	TA86-90 ✓	0.05
20343		<0.05
20344	TA86-91 ✓	<0.05
20345		0.40
20346		0.50
20348	TA86-92 ✓	0.10
20349		0.70
20350		2.55
20351		3.70

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

**** ASSAY REPORT ****

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

Number: 86279
Date: August 28, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20352		2.05
20353		2.00
20354		0.10
20355	TA86-92 ✓	<0.05
20356		0.20
20357		<0.05
20358		0.90
20359		6.05
20360		0.10
20361		0.10
20362		0.05
20363		0.05
20364		0.05
20365	TA86-93 ✓	0.05
20366		0.05
20367		0.40
20368		4.40
20369		0.30
20370		0.10
20371		0.25
20372		0.80
20373		0.20
20374	TA86-94 ✓	0.20
20375		0.05
20376		0.10
20377		0.60
20378		2.30

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**** ASSAY REPORT ****

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

Number: 86285
Date: September 8, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t	
18971		25.45	
18972		11.75	
18973	A86-58 ✓	1.85	
18974		2.55	
18975		5.20	
18976		8.55	
18985		2.00	
18986		4.65	
18987	A86-59 ✓	8.15	
18988		92.00	
18989		46.25	
18990		0.25	
20379		0.70	
20380	TA86-96 ✓	1.60	
20381		1.90	
20382		3.60	
20396		0.20	
20397		0.80	
20398		0.80	
20399		2.40	
20400	TA86-97 ✓	1.10	
20401		2.10	
20402		0.20	
20403		0.10	
20404		0.10	
20418		0.50	
20419		1.75	
20420	TA86-102 ✓	3.80	
20421		1.40	
20422	TA86-106 ✓	555.8	VG
20423	TA86-103 ✓	8.10	
20424		7.90	
20432		21.55	VG
20433	TA86-107 ✓	14.20	
20434		6.60	
20435		1.30	
20438		2.30	
20439		0.60	
20440	TA86-108 ✓	6.00	
20441		7.40	

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** ASSAY REPORT **

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

Number: 86285
Date: September 8, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20442		0.50
20443		1.30
20444		1.20
20445		2.10
20446	TA86-108 ✓	0.40
20447		0.10
20448		0.30
20449		0.10
20450		0.05
20451		0.05
20452		3.70
20453		1.30
20454		6.10
20455		2.10
20456		0.90
20457		0.90
20458		3.90
20459		3.70
20460		2.60
20461	TA86-109 ✓	2.50
20462		1.50
20463		1.50
20464		0.20
20465		0.15
20466		1.00
20467		2.00
20468		0.20
20469		<0.05
20470		1.90
20471		0.50
20472		0.90
20473		2.30
20474	TA86-110 ✓	0.60
20475		0.70
20476		0.90
20477		1.00
20478		0.50
20479		0.50
20480		0.70
20481		0.30

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** ASSAY REPORT **

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

Number: 86285
Date: September 8, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20482	TA86-110	0.10
20483		0.05
20484		<0.05
20485		<0.05
20486		<0.05
20487		<0.05
20488		0.05

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** ASSAY REPORT **

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

Number: 86296
Date: September 11, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t	
23030		11.30	
23031		1.60	
23032		5.35	
23033		6.80	
23034		2.00	
23035		1.60	
23036		10.15	
23037		0.80	
23038	A86-61 ✓	3.20	
23039		0.40	
23040		0.15	
23041		0.15	
23042		0.40	
23043		25.60	VG
23044		52.00	VG
23045		1.35	
20383		5.85	
20384		1.05	
20385	TA86-96 ✓	6.55	
20386		6.55	
20387		3.45	
20388		2.15	
20389		5.05	
20390		3.75	
20391	TA86-95 ✓	0.80	
20392		0.95	
20393		1.45	
20394	TA86-96 ✓	1.35	
20395		4.95	
20405		1.20	
20406		3.05	
20407	TA86-100 ✓	1.20	
20408		2.90	
20409		5.80	
20410		1.70	
20411	TA86-101 ✓	4.30	
20412		7.20	
20413		6.50	
20414	TA86-102 ✓	1.40	
20415		12.30	

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86296
Date: September 11, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t	
20416	TA86-102	131.0	VG
20417		3.25	
20425	TA86-103	9.50	
20426		4.80	
20429	TA86-106	131.6	VG
20430		8.70	
20489		0.20	
20490		0.05	
20491		<0.05	
20492		<0.05	
20496		<0.05	
20497		<0.05	
20498		0.05	
20499	TA86-118	<0.05	
20500		<0.05	
20501		<0.05	
20502		0.50	
20503		0.05	
20504		0.10	
20505		0.50	
20506		0.05	
20507	TA86-117	0.90	

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** ASSAY REPORT **

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

Number: 86331
Date: September 26, 1986
Proj.: A1

Attn: A. O. Birkeland

		Au g/t
23186		0.25
23187		6.80
23188		60.20
23189		9.25
23190	A86.73 ✓	22.60
23191		4.40
23192		1.20
23193		1.20
23194		1.70
23195		0.40
20814		0.05
20815	TA86.139 ✓	0.05
20818		1.30
20819		1.50
20823		2.30
20824		4.60
20825		0.90
20826		0.30
20827		0.75
20828	TA86.137 ✓	0.80
20829		0.40
20830		0.40
20831		0.45
20832		0.20
20833		0.30

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CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86304
Date: September 19, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20585		0.65
20586		0.15
20587		0.40
20588		1.60
20589	TA86-125 ✓	11.05
20590		53.40
20591		0.15
20592		0.15
20593		0.75
20594		0.50
20595		0.60
20596		25.45
20597		7.00
20598		0.70
20599		13.80
20600		18.40
20601		2.70
20602		5.60
20603		58.85
20604		6.80
20605	TA86-126 ✓	0.35
20606		0.25
20607		0.75
20608		0.20
20609		0.10
20610		0.10
20611		0.10
20612		0.05
20613		0.20
20614		0.10
20615		0.05
20616		2.90
20617		2.50
20618		0.90
20619	TA86-127 ✓	4.30
20620		3.10
20621		2.60
20622		1.20
20623		3.20
20624		1.00

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CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86304
Date: September 19, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20625		1.40
20626		45.85
20627		11.90
20628	TA86-127	0.05
20629	✓	0.20
20630		0.20
20631		0.20
20632		0.25
20633		0.50
20634		0.40
20635		1.25
20636		11.85
20637		17.50
20638		2.90
20639		18.00
20640		18.00
20641		6.80
20642	TA86-128	0.30
20643	✓	0.30
20644		1.50
20645		0.30
20646		0.70
20647		0.40
20648		1.70
20649		31.05
20650		6.80
20651		1.00
20652		23.60
20653		0.40
20654		1.10
20655		0.60
20656	TA86-129	2.60
20657	✓	2.15
20658		<0.05
20659		0.20
20660		0.20
20661		0.40
20662		0.95
20663	TA86-130	4.55
20664	✓	0.65

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CDN RESOURCE LABORATORIES LTD.
#6, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86304
Date: September 19, 1986
Proj.: A1

Attn: A. D. Birkeland cc. G. Sivertz

		Au g/t
20665		20.45
20666		14.40
20667		3.10
20668		0.40
20669		0.10
20670		0.20
20671	TA86-130	1.20
20672		0.30
20673		0.10
20674		0.80
20675		0.70
20676		0.10
20677		0.10
20678		0.10
20679		21.20
20680		35.60
20681		15.45
20682		18.20
20683		5.75
20684		0.75
20685		1.05
20686		0.65
20687	TA86-131	0.25
20688		0.15
20689		0.65
20690		15.15
20691		0.40
20692		0.05
20693		<0.05
20694		0.25
20695		0.15
20696	TA86-132	4.55
20697		4.40

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86318
Date: September 23, 1986
Proj.: A1

Attn: A. O. Birkeland

		Au g/t
20698		5.05
20699		0.55
20700		102.05
20701		1.35
20702		20.95
20703		8.55
20704		15.35
20705	TA86-132 ✓	16.15
20706		1.85
20707		0.80
20708		2.15
20709		0.55
20710		4.40
20711		13.75
20712		1.60
20713		1.85
20714		0.20
20739		2.15
20740		5.20
20741	TA86-134 ✓	15.20
20742		2.80
20743		3.85
20744		9.35
20745		3.05
20746		2.25
20747		5.45
20748		17.35
20765		0.15
20766		0.40
20767		1.00
20768		0.15
20769		0.15
20770		3.45
20771		30.55
20772		2.95
20773	TA86-135 ✓	19.20
20774		2.15
20775		3.40
20776		14.65
20777		9.85

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** ASSAY REPORT **

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

Number: 86318
Date: September 23, 1986
Proj.: A1

Attn: A. O. Birkeland

		Au g/t
20778		14.25
20779		3.45
20780		1.75
20781		0.40
20782	TA86-135 ✓	2.00
20783		0.15
20784		0.55
20785		1.75
20786		0.20
20787		0.15
20715		0.60
20716		3.60
20717		19.20
20718		1.10
20719		3.50
20720		3.70
20721		6.30
20722		13.80
20723		4.30
20724		2.20
20725	TA86-133 ✓	5.30
20726		1.35
20727		0.50
20728		0.05
20729		0.60
20730		0.50
20731		4.95
20732		5.00
20733		0.15
20734		0.05
20735		0.50
20736		0.30
20737		0.20
20738		0.15
20749		18.70
20750		2.70
20751		0.60
20752	TA86-134 ✓	9.10
20753		6.20
20754		2.50

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CDN RESOURCE LABORATORIES LTD.
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** ASSAY REPORT **

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

Number: 86318
Date: September 23, 1986
Proj.: A1

Attn: A. O. Birkeland

		Au g/t
20755	TA86-134	0.80
20756		0.40
20757		0.50
20758		0.40
20759		4.70
20760		0.40
20761		0.05
20762		0.30
20763		0.20
20764		0.05
20788	TA86-136	0.05
20789		1.50
20790		0.20
20791		1.90
20792		0.80
20793		0.05
20794		0.20
20795		0.60
BV Muck 1		57.95
South Bonanza Muck 1		779.1 VG

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 TEL (604) 946-4448

** ASSAY REPORT **

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

Attn: A. D. Birkeland

Number: 86328
Date: September 25, 1986
Proj.: A1

		Au g/t	
20796		0.10	
20797		0.40	
20798		0.80	
20799		1.10	
20800		58.10	
20801		42.15	
20802		45.10	
20803	TA86-136 ✓	41.65	
20804		6.20	
20805		10.90	
20806		31.45	
20807		2.20	
20808		1.80	
20809		0.40	
20810		0.45	
20811		<0.05	
20812		<0.05	
20813		0.50	
23108		0.15	
23109		3.75	
23110		363.5	VG
23111		23.35	
23112	A86.67 ✓	29.00	
23113		7.05	
23114		2.00	
23115		0.95	
23116		0.75	
23117		10.65	
23118		10.15	
23119		12.25	
23120	A86.68 ✓	144.6	VG
23121		21.95	
23122		14.00	
23123		5.05	
23124		0.40	
23125		2.00	
23126		0.55	
23127	A86.69 ✓	5.05	
23128		2.80	
23129		3.05	

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 - TEL (604) 946-4448

** ASSAY REPORT **

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

Number: 86337
Date: October 2, 1986
Proj.: A1

Attn: A. O. Birkeland

		Au g/t
23245		28.75
23246		0.40
23247	A86-76 ✓	2.15
23248		1.45
23249		0.80
23250		0.05
23251		0.05
23252		14.00
23253		0.65
23254		10.65
23255		0.95
23256		0.20
23257		0.65
23258	A86-77 ✓	5.35
23259		7.35
23260		24.05
23261		33.35
23262		3.05
23263		20.20
23264		68.40
23265		69.55
23266		79.20
23267		0.95
23268		<0.05
23269		1.85
23270		4.00
23271		1.20
23272		5.45
23273		1.35
23274		28.65
23275		0.55
23276		12.25
23277	A86-78 ✓	0.40
23278		4.80
23279		17.45
23280		3.05
23281		0.35
23282		4.95
23283		2.00
23284		0.25

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CDN RESOURCE LABORATORIES LTD.

#8, 7560 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86337
Date: October 2, 1986
Proj.: A1

Attn: A. O. Birkeland

		Au g/t
23285		0.15
23286		0.65
23287		0.65
23288		0.65
23289		1.85
23290		0.55
23291		0.40
23292		0.25
23293		0.15
23294		0.15
23295		5.60
23296		80.20
23297	A86-79 ✓	3.20
23298		15.05
23299		23.95
23300		10.55
23301		186.8
23302		11.45
23303		4.40
23304		0.40
23305		2.65
23306		0.15
23307		0.95
23308		0.25
23309		0.15
23310		0.65
23311		0.65
23312		0.40
23313		0.55
23314		2.55
23315		2.15
23316		1.45
23317		5.75
23318		2.55
23319	A86-80 ✓	70.85
23320		50.00
23321		4.15
23322		0.65
23323		0.40
23324		25.65

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** ASSAY REPORT **

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

Number: 86337
Date: October 2, 1986
Proj.: A1

Attn: A. D. Birkeland

		Au g/t
23325	A86-80 ✓	0.25
23326		2.65
23327		5.45
23328		1.45
23329		2.15
23330		0.65
23331	A86-81 ✓	0.65
23332		0.25
23333		0.25
23334		0.40
23335		0.05
23336		0.25
23337		0.40
23338		0.55
23339		20.95
23340		1.75
23341		6.40
23342		7.45
23343		31.00
23344		14.40
23345		14.55
23346	A86-82 ✓	29.20
23347		22.85
23348		3.75
23349		1.35
23350		2.00
23351		6.95
23352		1.20
23353		50.05
23354		9.60
23355		18.00
23356		3.20
23357		13.20
23358		2.65
23359		0.95
23360		0.40
23361	A86-83 ✓	0.40
23362		0.40
23363		0.15
23364		8.15

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** ASSAY REPORT **

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

Number: 86337
Date: October 2, 1986
Proj.: A1

Attn: A. O. Birkeland

	Au g/t
23365	5.60 - A86-83 ✓
20834	1.30 - TA86.141 ✓
Bingo Muck 1	2.30
Bonanza Muck 20	25.40

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** ASSAY REPORT **

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

Number: 86271
Date: August 25, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20083		0.50
20084		25.30
20085		0.40
20086		3.10
20087		1.50
20088		1.60
20089	TA86-73 ✓	2.30
20090		16.95
20091		29.20
20092		9.00
20093		0.95
20094		0.30
20105		9.50
20116	TA86-74 ✓	0.50
20117		0.10
20128		1.10
20129	TA86-75 ✓	0.10
20134		1.10
20135		0.20
20136		0.20
20137		39.80
20142	TA86-76 ✓	0.50
20143		14.00
20152		0.10
20153		<0.05
20154	TA86-73 ✓	16.10
20159		1.20
20160		0.80
20161	TA86-77 ✓	9.30
20162		6.90
20173		13.30
20174		0.50
20183		0.30
20184		4.20
20187		1.20
20188		21.05
20189	TA86-78 ✓	3.50
20190		2.00
20191		0.60
20192		0.40

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86271
Date: August 25, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20193		1.00
20194		1.80
20195		0.60
20196		3.40
20197		9.20
20198		24.30
20199		12.60
20200		0.50
20201	TA86-78 ✓	0.40
20202		1.00
20207		0.50
20208		0.40
20209		0.90
20210		1.10
20241		15.60
20242	TA86-79 ✓	1.00
20255		0.60
20256		1.10
15840	CA86-1002 ✓	56.25
15846		3.80
15847	CA86-1003 ✓	5.60
15848		1.90
15849		1.70
15850		0.50
15851		16.90
15852	CA86-1004 ✓	7.30
15853		1.60
15854		0.40
15855	CA86-1003 ✓	1.80
15856	CA86-1005 ✓	1.80
15857		39.45
15858	CA86-1006 ✓	28.90
15859		5.30
15860		1.80
15861	CA86-1007 ✓	10.20
15862		4.40
15863		9.40
15864		14.80
15865	CA86-1008 ✓	7.00
15866		15.00

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** ASSAY REPORT **

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

Number: 86277
Date: August 27, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20095		0.80
20096	TA86-73 ↓	1.70
20097		0.60
20098		1.80
20099		0.10
20100		0.50
20101		0.10
20104		6.60
20106		80.55
20107		25.80
20108		5.10
20109		0.20
20110	TA86-74 ↓	0.70
20111		0.20
20112		1.10
20113		0.80
20114		3.70
20115		0.70
20118		1.00
20120		0.80
20121		1.10
20122		17.90
20123		99.55
20124	TA86-75 ↓	61.90
20125		36.25
20126		0.80
20127		1.15
20130		15.20
20131		5.10
20132		1.60
20133		1.40
20138		29.35
20139		16.50
20140		0.40
20141		0.60
20144	TA86-76 ↓	0.80
20145		1.30
20146		<0.05
20147		0.30
20150		16.80

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86277
Date: August 27, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20151	TA86-76	2.20
20157		0.50
20158		0.70
20163		1.60
20164		12.50
20165		0.90
20166		105.8
20167		0.60
20168		1.50
20169		0.60
20170	TA86-77	1.70
20171		16.00
20172		2.70
20175		0.70
20176		0.70
20177		0.20
20178		0.30
20179		6.40
20180		7.90
20181		2.30
20182		0.05
20185		6.35
20186	TA86-78	0.95
20205		0.40
20206		0.40
20211		<0.05
20212		0.05
20213		0.05
20216	TA86-72	0.05
20217		<0.05
20218		<0.05
20220		<0.05
20221		0.05
20239		2.00
20240		1.50
20243		1.60
20244	TA86-79	18.00
20245		2.10
20246		3.55
20247		4.00

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 TEL. (604) 946-4448

** ASSAY REPORT **

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

Number: 86277
Date: August 27, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20248		1.00
20249		0.70
20250	TA86-79 ✓	0.20
20251		0.30
20252		0.90
20253		0.70
20254		2.10
20270	TA86-80 ✓	1.10
20293		2.50
20294		1.20
20295		0.70
20296		0.60
20297		1.30
20298	TA86-84 ✓	3.70
20299		4.95
20300		1.80
20301		1.40
20302		1.70
20303		0.40
20304		0.15
20305		0.05
15867	CA86-1006 ✓	8.40
15868	CA86-1007 ✓	10.50
15869	CA86-1008 ✓	4.20
15870		4.90
15871		3.50
15872	CA86-1009 ✓	1.90
15873		2.90
15874		12.00
15875		4.80

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** ASSAY REPORT **

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

Number: 86272
Date: August 26, 1986
Proj.: A1

Attn: A. O. Birkeland cc. G. Sivertz

		Au g/t
20203	TA86-78 ✓	1.40
20204		2.50
20214	TA86-72 ✓	<0.05
20215		0.10
20227		0.10
20228		0.10
20229		0.20
20230		1.90
20231		0.80
20232		1.40
20233		1.20
20234		1.00
20235	TA86-79 ✓	1.40
20236		4.20
20237		1.20
20238		5.30
20257		0.40
20258		0.70
20259		0.50
20260		0.50
20261		0.80
20262		0.50
20263		0.30
20264		0.20
20265		0.10
20266		0.15
20267		0.10
20268		0.50
20271		0.40
20272		2.70
20273	TA86-80 ✓	11.30
20274		3.00
20275		1.70
20276		0.60
20277		1.05
20278		0.50
20279		0.40
20280		0.40
20281		17.30
20282		3.10

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APPENDIX F

BIBLIOGRAPHY

BIBLIOGRAPHY

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NTS

1:50,000

M 94E/6W

TO NORTH SEE MAP 94-E-11-W

127°30'

57°30'

MOYTAN I 3292(3) 5SW x 4W (102509)

MOYTAN II 3293(3) 5S x 4E (102510)

CHUCK 2 2381(8) (5N x 4W)

CHUCK 1 2380(8) (5N x 4E)

MOYEZ 4 2385(8) (4W x 5S) (74069)

SPIKE 3285(3) 5S x 4W (97176)

BERT 2012(8) (5W x 4N)

ERNIE 2011(8) (4N x 5E)

WINKLE 4099(8) (5N x 4E)

TUFF PEAK R J FR 4273(9)

BULL 2010(8) (4S x 5E)

J O FR. 4272(9)

OSCAR FR. 2084(9)

SURPRISE 4098(8) (5N x 4W)

METS 1 1253 (4)

METS 2 1254 (4)

METS 3 2623 (3)

METS 4 2960(8)

METS 5 3228(9)

LEXIM 1 6894(3) 4N x 4W

METSANTAN 1 2623 (3)

METSANTAN 2 2624 (3)

METSANTAN 3 2961(8)

METSANTAN 4 2960(8)

METSANTAN 5 3228(9)

METSANTAN 6 1816(3) (3E x 5N)

METSANTAN 7 1815(3) (3W x 5N)

INDIAN GOLD 2 3322 (4) 5N x 4W

INDIAN GOLD 1 3321 (4) 5N x 4E

INDIAN GOLD 3 3323 (4) 5S x 4W

INDIAN GOLD 4 3324(4) 5S x 4E

AL 8 1872(4) (4N x 4W)

AL 7 1871(4) (4S x 4W)

AL 1 789 (6)

AL 2 790 (6)

AL 3 791 (6)

AL 4 792 (6)

AL 5 1439(7) (2S x 5W)

AL 6 1440(7) (2S x 5E)

ALBERTS HUMP

HYUK 1 FR. 3026(7)

HYUK 2 FR. 3027(7)

HYUK 3 FR. 3028(7)

NII 3029(7) (1S x 6E) (81702)

DISCOVERY 1 3254(1) 5N x 4E

DISCOVERY 2 3255(1) 5N x 4W

DISCOVERY 3 3256(1) 5S x 4W

DISCOVERY 4 3257(1) 5S x 4E

SY 1 3267 (3) 3N x 6E

SY 2 3268(3) 3N x 6E

TOODOGGONE 1 3339(5) 5N x 4W

TOODOGGONE 2 3340(5) 5N x 4E

TOODOGGONE 3 3341(5)

TOODOGGONE 4

BC 5474

BC 5479

Moyez Creek

Abesti Creek

Metsantan Creek

Metsantan Lake

Antoine Louis

G DIVISION

VISION

SHEET 3

SHEET 2

SHEET 1

LONGITUDINAL SECTION 138°

LONGITUDINAL SECTION 173°

LEGEND

Silicified volc. & barite mineralized with Au (1100 g/t)

Silicified and/or cy volc.

Area covered by 1:100 detail map

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

energex MINERALS LTD

703-850 W. Hastings Street, Vancouver, B.C., V6C 1E1

Telephone (604) 684-1256

GHOST & VERRENASS ZONES

BONANZA DEPOSIT

1986 D.D.H.'s & 1983, 84, & 86 TRENCHES

GENERAL GEOLOGY

10 0 40 metres

SCALE: 1:1000

DATE: Nov. 1986 | N.T.S. 94E/6W | FIGURE No. 5

BY: | CHKD:

TA86-93

A86-54/55
elev. 1690.4

TA86-47
elev. 1691.2

TA86-48

TA86-49
elev. 1689.2

TA86-50
elev. 1688.4

TA83-16
elev. 1687.26

TEST PIT

A86-56
elev. 1688.7

TA84-07
elev. 1688.5

TA86-107
elev. 1688.4

TA86-106
elev. 1687.4

A86-68
elev. 1687.0

A86-67
elev. 1686.9

TA86-103
elev. 1686.9

A86-69
elev. 1686.5

TA86-102
elev. 1686.3

A86-70
elev. 1686.4

A82-09

TA86-104
elev. 1685.9

TA86-101
elev. 1686.0

A86-71/72
elev. 1685.8

TA86-105
elev. 1684.4

TA83-20
elev. 1685.7

TA86-100
elev. 1685.14

TA86-95
elev. 1684.4

TA86-96
elev. 1683.9

TA86-97
elev. 1683.0

N

BONANZA LEGEND

A2 — Pervasive Argillization. Local original texture preserved. Feldspars completely altered to clay/sericite; mafics obscured or clay - altered, groundmass argillized ± sericitized ± slightly silicified ± hematized

A3 — Weak argillic, sericitic and/or propylitic alteration; partial replacement by variable clay-sericite-chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.

AS — Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as ion ghosts. Groundmass silicified usually with weak hematization. Vugs, trace-15 %, variable qtz. druse, may be coated with Fe oxides. Vugs from leached feldspar and between breccia frags.

AzAs — Argillization with Silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured

AsAz — Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays; may be leached.

A7 — Silicification with pyrite. Minor clay remnants.

OB — Over burden

Trench

Diamond drill hole

SYMBOLS

Lithologic / alteration boundary; observed, inferred.

Fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

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AL PROPERTY
BONANZA DEPOSIT - SHEET I
D.D.H., TRENCHES & GEOLOGY MAP

SCALE: 1:200

DATE: NOV. 1986 | N.T.S. 94 E/6 W | FIGURE FIG. 6A
BY: L.H.E., H.A. | CHKD:

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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LEGEND

A2 — Pervasive argillization. Local original texture preserved. Feldspars completely altered to clay+sericite, matrix obscured by clay-altered, groundmass grained ± sericitized ± slightly silicified ± hematized.

A2/A3 A3/A2 — Weak pervasive argillization with hematite flooding in matrix.

A3 — Weak argillic, sericitic and/or propylitic alteration, partial replacement by pinkish clay-sericite-chlorite assemblages. Generally dark granular matrix with intense hematite flooding and feldspars altered to clay ± sericite.

A5 — Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as ion ghosts. Groundmass silicified usually with weak hematization. Vugs, trace to 5%, up to 6 cm. Quartz veinlets may be coated with Fe oxides. Vugs from leached feldspar and between breccia fragments.

A2/A5 — Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obliterated.

A5/A2 — Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays, may be leached.

A7 — Silicification with pyrite. Minor clay remnants.

A7/A2 — Silicification and argillization with pyrite. Matrix silicified. Feldspars altered to clays.

A8 — "Fine-phyllic" alteration, weak to strong replacement. Original textures variably preserved. Feldspars replaced, mafic minerals are pyritized, pyrite is commonly limonitized. Modern silica flooding throughout groundmass. Generally unconsolidated.

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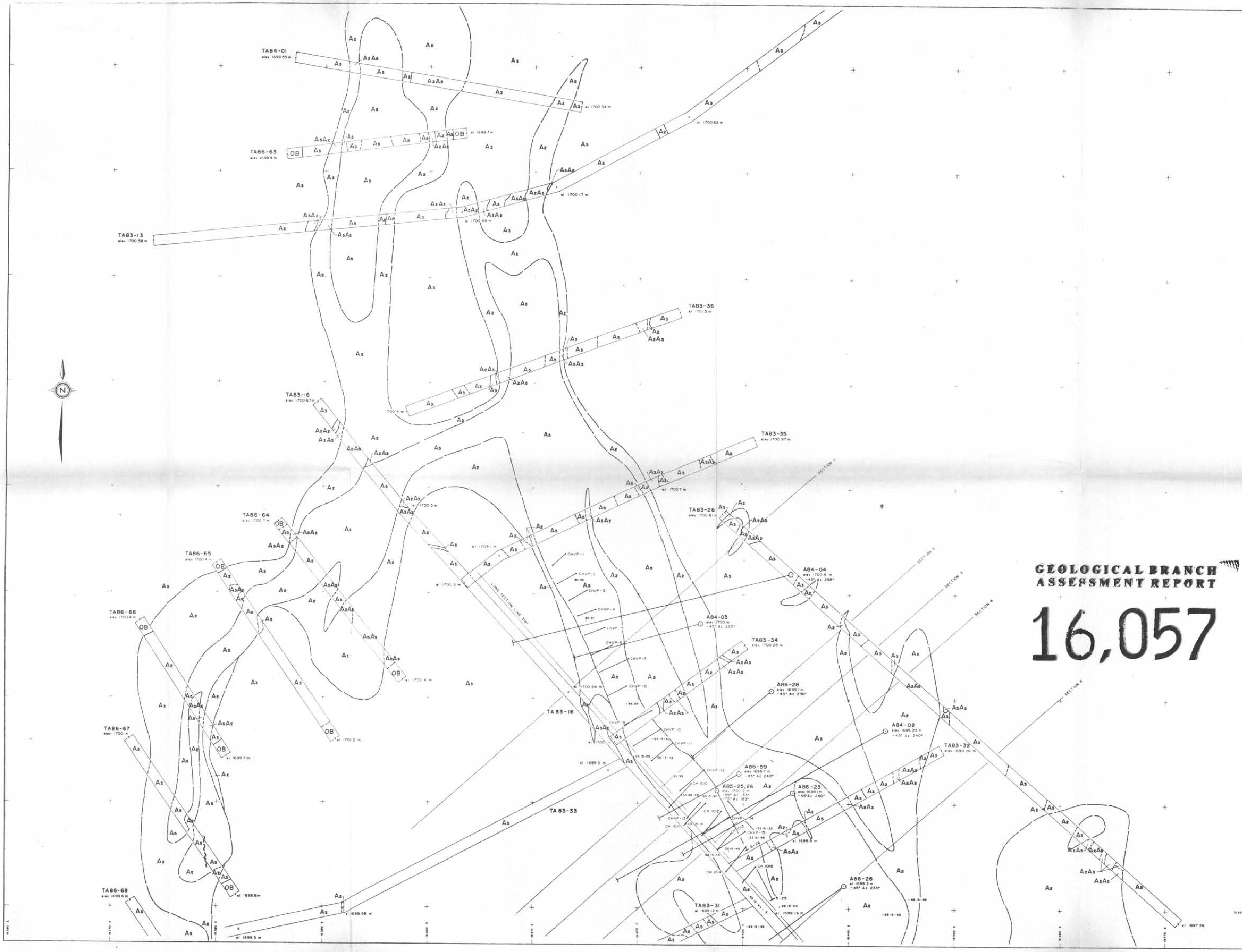
AL PROPERTY
BONANZA DEPOSIT-SHEET 2
GEOLOGY
DRILL HOLE LOCATIONS & TRENCH GEOLOGY

SCALE 1:200
DATE NOV 1986 | N.T.S. 92 E/6 W
BY K.F.H.S. | CHKD

FIG. 6



LEGEND

A2	Pervasive argillization. Local original texture preserved. Feldspars completely altered to clay/sericite, mafics obscured or clay-altered, groundmass argillized ± sericitized ± slightly silicified ± hematized.
A2/A3 A3/A2	Weak pervasive argillization with hematite flooding in matrix.
A3	Weak argillic, sericitic and/or propylitic alteration, partial replacement by variable clay-sericite-chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.
A5	Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as tan ghosts. Groundmass silicified usually with weak hematization. Vugs, trace to 15%, variable quartz druse, may be coated with Fe oxides. Vugs from leached feldspar and between breccia fragments.
A2/A5	Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured.
A5/A2	Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays, may be leached.
A7	Silicification with pyrite. Minor clay remnants.
A7/A2	Silicification and argillization with pyrite. Matrix silicified. Feldspars altered to clays.
A8	"Pre-phyllic" alteration; weak to strong replacement. Original textures variably preserved. Feldspars are argillized; mafic minerals are pyritized, pyrite is commonly limonitized. Moderate silica flooding throughout groundmass. Generally unconsolidated.

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AL PROPERTY
BONANZA DEPOSIT-SHEET 3
GEOLOGY
DRILL HOLE LOCATIONS & TRENCH RESULTS

SCALE 1:200 metres

DATE NOV. 1986	N.T.S.	FIG. 6
BY: L.K.E., H.A.T.	CHKD:	

C

TA86-93

LONG SECTION LINE 172°

TA86-48

TA86-47
elev. 1691.2
NO SAMPLES

TA86-49
elev. 1689.2

SECTION 14

A86-54/55
elev. 1690.4

SECTION 13

TA86-50
elev. 1688.4

TA83-16
elev. 1687.26

A86-56
elev. 1688.7

SECTION 15

TA84-07
elev. 1688.3

A86-25

TEST PIT

TA86-107
elev. 1688.4

SECTION 16

A86-68
elev. 1687.0

A86-67
elev. 1686.9

TA86-106
elev. 1687.4

SECTION 17

A86-69
elev. 1686.6

TA86-103
elev. 1686.9

SECTION 18

A86-70
elev. 1686.4

TA86-102
elev. 1686.3

A82-09

TA86-104
elev. 1685.9

SECTION 19

A86-71/72
elev. 1685.8

TA86-101
elev. 1686.0

TA86-105
elev. 1684.4

TA83-20
elev. 1685.7

TA86-100
elev. 1685.14

TA86-95
elev. 1684.4

TA86-96
elev. 1683.9

TA86-97
elev. 1683.0

N

LEGEND

- Channel sample
- Grab sample
- Au Assay 8.8 gm/tonne
- Trench
- Diamond Drill Hole

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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AL PROPERTY
BONANZA DEPOSIT - Sht 1 OF 3
DRILL HOLE LOCATIONS & TRENCH RESULTS

SCALE: 1:200

DATE NOV. 1986 | N.T.S. 94 E/6 W
BY L.K.E., H.A. | CHKD:

FIG. 7

A86-58 elev. 1698.3
A86-26 elev. 1698.3
A86-57 elev. 1697.3
A86-27 elev. 1698.1
A86-30 elev. 1698.0
TA83-31
TA83-28 elev. 1699.04
TA83-30 elev. 1697.64
TA83-42 elev. 1696.92
A86-31 elev. 1696.8
TA83-29 elev. 1699.89
A84-01 elev. 1697.7
A86-20 elev. 1695.4
TA86-40 elev. 1702.1
TA83-16
TA83-41 elev. 1695.38
A85-27/28/29
No Samples (TILL)
A86-29 elev. 1694.9
TA84-08 elev. 1695.25
A86-21 elev. 1695.2
TA86-41 elev. 1695.2
A86-24 elev. 1693.6
TA86-92 elev. 1694.7
TA86-42 elev. 1695.0
A85-24
TA86-93 elev. 1693.8
A86-22/32 elev. 1694.7
TA83-27 elev. 1694.63
TA83-38 elev. 1694.38
A86-53 elev. 1693.4
A82-08 elev. 1693.1
TA84-05 elev. 1692.53
No Significant Values
A82-09
TA86-48 elev. 1692.0
TA86-47
TA86-49 elev. 1693.2
TA83-40 elev. 1694.57
SECTION 5
SECTION 6
SECTION 7
SECTION 8
SECTION 9
SECTION 10
SECTION 11
SECTION 12
SECTION 13
LONG SECTION LINE 1300

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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LEGEND
- Channel sample
- Grab sample
- Au Assay g/t
- Trench
- Diamond Drill Hole

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AL PROPERTY
BONANZA DEPOSIT-SHEET 2
DRILL HOLE LOCATIONS & TRENCH RESULTS

SCALE 1:200
DATE NOV 1986 N.T.S. 92 E/6 W
BY I.M.T. M.J. DRAWN
FIG. 7

B

TA84-01
elev. 1699.55 m

el. 1700.34 m

TA86-63
elev. 1699.9 m

el. 1699.7 m

el. 1700.62 m

el. 1700.7 m

el. 1700.49 m

TA83-13
elev. 1700.58 m

TA83-36
el. 1701.5 m

TA83-16
elev. 1700.67 m

TA83-35
elev. 1700.97 m

el. 1700.7 m

el. 1700.5 m

el. 1705.1 m

el. 1700.5 m

TA86-64
elev. 1700.7 m

TA86-65
elev. 1700.4 m

TA86-66
elev. 1700.4 m

el. 1700.4 m

el. 1700.2 m

TA86-67
elev. 1700 m

el. 1699.7 m

el. 1699.6 m

TA86-68
elev. 1699.6 m

No Samples

el. 1699.56 m

el. 1699.3 m

TA83-26
elev. 1700.61 m

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

LONG SECTION LINE 340°

CHVP-1

CHVP-2

CHVP-3

CHVP-4

CHVP-5

CHVP-6

CHVP-7

CHVP-8

CHVP-9

CHVP-10

CHVP-11

CHVP-12

CHVP-13

CHVP-14

CHVP-15

CHVP-16

A84-04
elev. 1700.41 m
-45° Az. 255°

A84-03
elev. 1700 m
-45° Az. 255°

TA83-34
elev. 1700.28 m

el. 1700.24 m

A86-28
elev. 1699.1 m
-45° Az. 230°

TA83-16

A86-59
elev. 1698.7 m
-45° Az. 240°

A85-25,26
elev. 1700.2 m
-55° Az. 153°
-75° Az. 153°

CH 1010

CH 1012

CH 1011

CH 1013

CH 1014

A84-02
elev. 1699.25 m
-45° Az. 240°

A86-23
elev. 1699.1 m
-45° Az. 240°

elev. 1699.26 m

TA83-32

el. 1699.5 m

el. 1697.26

TA83-33

A86-26
el. 1698.3 m
-45° Az. 233°

S-25

TA83-31
el. 1699.13 m

el. 1699.16 m

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

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AL PROPERTY
BONANZA DEPOSIT-SHEET 3
DRILL HOLE LOCATIONS & TRENCH RESULTS

SCALE 1:200
0 5 10 15 20 Metres

DATE NOV 1986 | N.T.S.
BY L.K.E., H.A. | CHKD.

FIG. 7

ELEVATIONS IN METRES

CROSS SECTION 1 | CROSS SECTION 2 | CROSS SECTION 3 | CROSS SECTION 4 | CROSS SECTION 5 | CROSS SECTION 6 | CROSS SECTION 7 | CROSS SECTION 8 | CROSS SECTION 9

CHVP 1 | CHVP 2 | CHVP 3 | CHVP 4 | CHVP 5 | CHVP 6 | CHVP 7 | CHVP 8 | CHVP 9 | CHVP 10 | CHVP 11 | CH 000 | CH 001 | CH 002 | CH 003 | CH 004 | CH 005 | CHVP 18 | CHVP 19 | CHVP 20

1700 | 1690 | 1680 | 1670 | 1660 | 1650 | 1640 | 1630 | 1620

5.1 g/t / 1.8 m
5.80 g/t / 2.0 m
3.33 g/t / 2.0 m
4.68 g/t / 2.0 m
4.93 g/t / 2.0 m
5.05 g/t / 2.0 m
2.37 g/t / 3.0 m
2.00 g/t / 2.0 m
1.20 g/t / 3.0 m
43.43 g/t / 3.0 m
11.55 g/t / 1.00 m
17.30 g/t / 3.0 m
5.18 g/t / 4.94 m
5.57 g/t / 3.0 m
23.78 g/t / 2.92 m
6.19 g/t / 1.00 m
10.40 g/t / 0.35 m
3.83 g/t / 3.07 m
6.60 g/t / 0.28 m
A84-03 (Projected)
3.97 g/t / 2.1 m
A84-04 (Projected)
A86-28 (Projected)
A86-59 (Projected)
80.12 g/t / 2.0 m
2.17 g/t / 3.0 m
1.11 g/t / 2.15 m
3.49 g/t / 3.42 m
26.23 g/t / 0.63 m
5.47 g/t / 6.09 m
1.85 g/t / 0.50 m
A86-23 (Projected)
2.31 g/t / 3.40 m
2.40 g/t / 0.70 m
A84-02 (Projected)
47.35 g/t / 2.0 m
45.71 g/t / 3.0 m
1.77 g/t / 2.69 m
8.69 g/t / 5.71 m
27.40 g/t / 0.69 m
3.18 g/t / 2.20 m
1.80 g/t / 0.60 m
A86-58 (Projected)
A85-26 (Projected)
24.03 g/t / 2.0 m
31.48 g/t / 3.0 m
21.67 g/t / 3.0 m
20.98 g/t / 1.00 m
104.08 g/t / 0.50 m
85.81 g/t / 1.36 m
16.93 g/t / 11.17 m
3.29 g/t / 7.59 m
A86-26 (Projected)
A85-25 (Projected)
A86-56 (Projected)
2.40 g/t / 1.00 m
A86-27 (Projected)
No significant values
A84-01 (Projected)
1.26 g/t / 2.50 m
3.05 g/t / 0.55 m
2.10 g/t / 1.50 m
1.05 g/t / 0.50 m
A86-31 (Projected)
2.76 g/t / 3.04 m
6.57 g/t / 1.90 m
7.85 g/t / 0.50 m
2.94 g/t / 2.17 m
A86-30 (Projected)
1.56 g/t / 1.20 m
1.23 g/t / 0.50 m
A86-20 (Projected)
A82-08 (Projected)

GEOLOGICAL BRANCH
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AL PROPERTY
BONANZA DEPOSIT
LONG SECTION - NORTH HALF
LOOKING 048° NORTHEAST

SCALE 1:200

DATE NOV. 86	N.T.S.	FIG. 8
BY L.R.E., H.A.	CHKD:	

ELEVATIONS IN METRES

CROSS SECTION 9 | CROSS SECTION 10 | CROSS SECTION 11 | CROSS SECTION 12 | CROSS SECTION 13

1700 | 1690 | 1680 | 1670 | 1660 | 1650 | 1640 | 1630 | 1620

1.31 g/t / 0.50 m
2.38 g/t / 1.00 m
1.66 g/t / 17 m
1.51 g/t / 0.30 m
2.76 g/t / 3.04 m
7.69 g/t / 15.00 m
2.25 g/t / 0.50 m
3.75 g/t / 0.50 m
2.21 g/t / 5.33 m
9.14 g/t / 3.46 m
11.61 g/t / 2.06 m
1.38 g/t / 2.69 m
2.58 g/t / 1.50 m
1.42 g/t / 1.75 m
1.75 g/t / 3.53 m
1.65 g/t / 0.50 m
2.53 g/t / 2.0 m
6.57 g/t / 1.90 m
14.15 g/t / 0.52 m
50.40 g/t / 0.50 m
7.85 g/t / 0.50 m
2.25 g/t / 1.12 m
1.20 g/t / 0.50 m
13.96 g/t / 4.50 m
8.38 g/t / 9.69 m
3.35 g/t / 1.00 m
3.94 g/t / 2.50 m
4.47 g/t / 14.67 m
27.25 g/t / 0.50 m
33.87 g/t / 1.00 m
3.20 g/t / 0.50 m
1.35 g/t / 0.50 m
143.20 g/t / 0.50 m
13.75 g/t / 0.52 m
2.86 g/t / 7.00 m
1.85 g/t / 0.90 m
4.60 g/t / 1.34 m
10.80 g/t / 0.50 m
52.70 g/t / 0.50 m
10.18 g/t / 1.09 m
15.75 g/t / 0.59 m
7.75 g/t / 0.50 m
11.96 g/t / 5.05 m
116.76 g/t / 5.40 m
27.83 g/t / 1.55 m
18.95 g/t / 0.60 m
2.94 g/t / 2.17 m
2.65 g/t / 3.90 m
2.53 g/t / 2.90 m
9.24 g/t / 6.50
4.90 g/t / 4.62 m
23.89 g/t / 1.50 m
1.56 g/t / 1.20 m
1.23 g/t / 0.50 m
1.75 g/t / 0.29 m

A85-27 (Projected)
A86-22 (Projected)
A85-28 (Projected)
A86-21 (Projected)
A86-29 (Projected)
A82-08 (Projected)
A86-53 (Projected)
A86-32 (Projected)
A85-29 (Projected)
A86-20 (Projected)
A86-54 (Projected)
A86-24 (Projected)
A86-55 (Projected)
A86-25

1.45 2.05 2.16 3.2 3.8 4.3 4.2 3.5 2.5 2.2 1.9 3.7 5.7 4.1 3.4 10.4 10.6 7.7 3.6 4.2 10.2 5.4

No significant values

GEOLOGICAL BRANCH
ASSESSMENT REPORT
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AL PROPERTY
BONANZA DEPOSIT
LONG SECTION - SOUTH HALF
LOOKING 048° NORTHEAST

SCALE: 1:200

DATE: NOV. 86 | N.T.S.
BY: L.K.E., H.A. | CHKD

FIG. 8 B

ELEVATIONS IN METRES

ELEVATIONS IN METRES

CROSS SECTION 14

CROSS SECTION 15

CROSS SECTION 16

CROSS SECTION 17

CROSS SECTION 18

CROSS SECTION 19

1690

1680

1670

1660

1650

1640

1630

TA84-07
2.38 g/t
2.5 m

TA86-107
10.03 g/t
3.1 m

TA86-107
75.08 g/t
1.7 m

TA86-103
8.7 g/t
2.2 m

TA86-102
5.65 g/t
2.7 m

TA86-
2.32 g/t
3.6 m

TA86-101
5.1 g/t
4.4 m

TA83-20
1.69 g/t
4.5 m

58.86 g/t
3.02 m

30.61 g/t
3.50 m

A86-67
(Projected)

A86-68
(Projected)

5.21 g/t
6.2 m

8.70 g/t
2.5 m

A86-69
(Projected)

4.49 g/t
8.0 m

8.54 g/t
2.5 m

A86-70
(Projected)

2.04 g/t
7.02 m

A86-71
(Projected)

2.91 g/t
2.3 m

A86-72
(Projected)

12.01 g/t
5.05m

22.62 g/t
2.11 m

A86-55 (Projected)

13.31 g/t
4.58 m

16.65 g/t
3.58m

A86-56 (Projected)

A82-09 (Projected portion)

2.43 g/t
1.2 m

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

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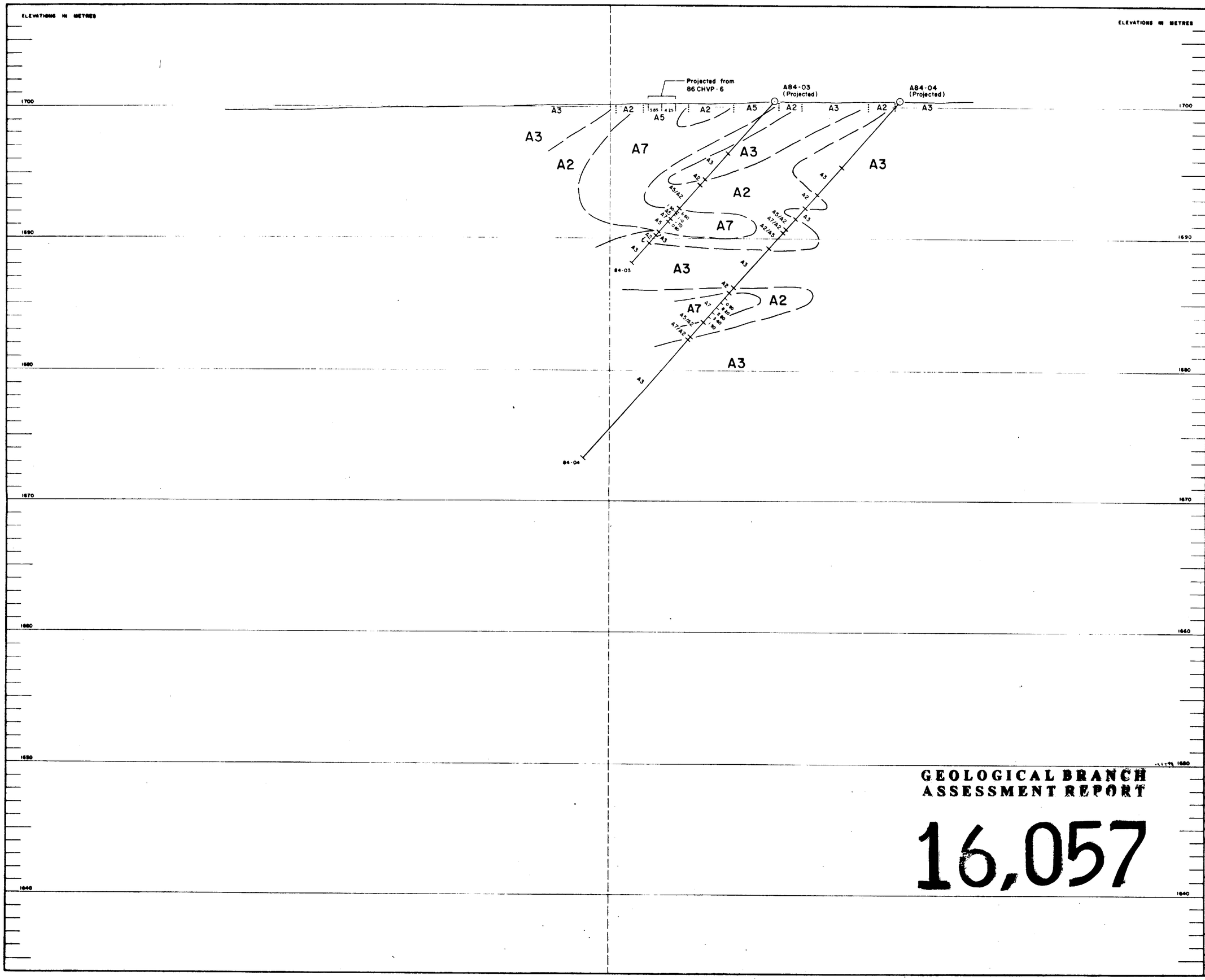
AL PROPERTY
BONANZA SOUTH EXTENSION

LONG SECTION
LOOKING 082° EAST

m 1 0 1 2 3 4 5 6 7 8 m
SCALE 1:200

DATE NOV. 86	NTS	FIGURE NO.
BY	CHKD.	FIG. 8

ELEVATIONS IN METRES



ELEVATIONS IN METRES

LEGEND

A2 Pervasive argillization. Local original texture preserved. Feldspars completely altered to clay/sericite; mafics obscured or clay-altered; groundmass argillized ± sericitized ± slightly silicified ± hematized.

A2/A3 A3/A2 Weak pervasive argillization with hematite flooding in matrix.

A3 Weak argillic, sericitic and/or propylitic alteration; partial replacement by variable clay-sericite -chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.

A5 Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as ton ghosts. Groundmass silicified usually with weak hematization. Vugs, trace to 15%, variable quartz druse, may be coated with Fe oxides. Vugs from leached feldspar and between breccia fragments.

A2/A5 Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured.

A5/A2 Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays; may be leached.

A7 Silicification with pyrite. Minor clay remnants.

A7/A2 Silicification and argillization with pyrite. Matrix silicified. Feldspars altered to clays.

A8 "Pre-phyllic" alteration; weak to strong replacement. Original textures variably preserved. Feldspars are argillized; mafic minerals are pyritized; pyrite is commonly limonitized. Moderate silica flooding throughout groundmass. Generally unconsolidated.

Diamond Drill Hole

Au Assay Interval (g/t)

Longitudinal Section Line

Geologic Contact

Surficial Geologic Contact

Fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

REVISION	DATE	DESCRIPTION	BY	CHKD

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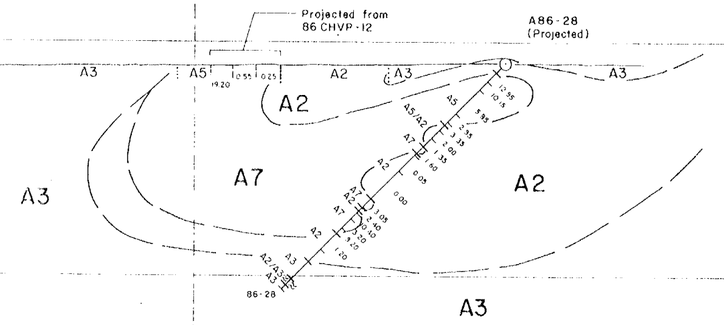
AL PROPERTY
BONANZA ZONE
GEOLOGY
CROSS SECTION 1
LOOKING 316°

SCALE: 1:200

DATE: Nov 1986	NTS 94E/6W	FIGURE NO.
BY: LKE / VJS	CHKD	FIG. 9 - A

ELEVATIONS IN METRES



1700
1690
1680
1670
1660
1650
1640

ELEVATIONS IN METRES

LEGEND

- **A2** — Pervasive argillization. Local original texture preserved. Feldspars completely altered to clay/sericite; mafics obscured or clay-altered, groundmass argillized ± sericitized ± slightly silicified ± hematized.
- **A2/A3 A3/A2** — Weak pervasive argillization with hematite flooding in matrix.
- **A3** — Weak argillic, sericitic and/or propylitic alteration, partial replacement by variable clay-sericite-chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.
- **A5** — Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as ian gnosts. Groundmass silicified usually with weak hematization. Vugs, trace to 15%, variable quartz druse, may be coated with Fe oxides. Vugs from leached feldspar and between breccia fragments.
- **A2/A5** — Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured.
- **A5/A2** — Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays; may be leached.
- **A7** — Silicification with pyrite. Minor clay remnants.
- **A7/A2** — Silicification and argillization with pyrite. Matrix silicified. Feldspars altered to clays.
- **A8** — "Pre-phyllic" alteration; weak to strong replacement. Original textures variably preserved. Feldspars are argillized, mafic minerals are pyritized, pyrite is commonly limonitized. Moderate silica flooding throughout groundmass. Generally unconsolidated.

- Diamond Drill Hole
- 2.5 — Au Assay Interval (g/t)
- Longitudinal Section Line
- Geologic Contact
- Surficial Geologic Contact
- ~~~~~ Fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD
705 850 W Hastings St
Vancouver, B.C
V6C 1E1
Telephone (604)684-1298

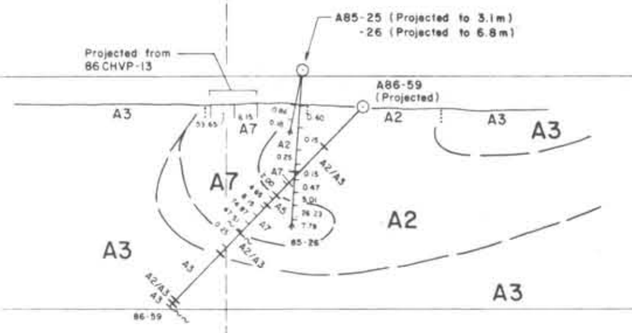
AL PROPERTY
BONANZA ZONE
GEOLOGY
CROSS SECTION 2
LOOKING 318°

m 1 0 1 2 3 4 5 6 7 8 m
SCALE 1:200

DATE Nov 1986 | NTS 94E/5W | FIGURE No. 9
BY LKE/VJG | CHKD

FIG. 9 B

ELEVATIONS IN METRES



ELEVATIONS IN METRES

1700
1690
1680
1670
1660
1650
1640

LEGEND

- **A2** Pervasive argillization. Local original texture preserved. Feldspars completely altered to clay/sericite, mafics obscured or clay-altered; groundmass argillized ± sericitized ± slightly silicified ± hematized.
- **A2/A3 A3/A2** Weak pervasive argillization with hematite flooding in matrix.
- **A3** Weak argillic, sericitic and/or propylitic alteration, partial replacement by variable clay-sericite-chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.
- **A5** Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as 'ghosts'. Groundmass silicified usually with weak hematization. Vugs, trace to 1%, variable quartz druse, may be lined with Fe oxides. Vugs from leached feldspar and between breccia fragments.
- **A2/A5** Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured.
- **A5/A2** Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays, may be leached.
- **A7** Silicification with pyrite. Minor clay remnants.
- **A7/A2** Silicification and argillization with pyrite. Matrix silicified. Feldspars altered to clays.
- **A8** "Pre-phyllic" alteration; weak to strong replacement. Original textures variably preserved. Feldspars are argillized, mafic minerals are pyritized, pyrite is commonly limonitized. Moderate silica flooding throughout groundmass. Generally unconsolidated.

- Diamond Drill Hole
- 11.5 Au Assay Interval (g/t)
- Longitudinal Section Line
- Geologic Contact
- Surficial Geologic Contact
- ~~~~~ Fault

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD. 705-800 W. Hastings St. Vancouver, B.C. V6C 1E1 Telephone (604) 684-1696

AL PROPERTY
BONANZA ZONE
GEOLOGY
CROSS SECTION 3
LOOKING 318°

SCALE 1:200

DATE May 1986 | NTS 94E/SE | FIGURE NO. FIG. 9
BY LKE/VJG | CHKD

C

ELEVATIONS IN METRES

ELEVATIONS IN METRES

Projected from 86 CH-1013

A85-25 (Projected from 3.1 - 11.3 m)

A86-23 (Projected)

A84-02 (Projected)

A85-26 (Projected from 6.8 m)

86-23

84-02

1700

1690

1680

1670

1660

1650

1640

LEGEND

A2 Pervasive argillization ± local original texture preserved. Feldspars completely altered to clay, sericite; mafics obscured or clay-altered, groundmass argillized ± sericitized ± slightly silicified ± hematized.

A2/A3 A3/A2 Weak pervasive argillization with hematite flooding in matrix.

A3 Weak argillic, sericitic and/or propylitic alteration; partial replacement by variable clay-sericite -chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.

A5 Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as ton ghosts. Groundmass silicified usually with weak hematization. Vugs, trace to 15%, variable quartz druse, may be coated with Fe oxides. Vugs from leached feldspar and between breccia fragments.

A2/A5 Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured.

A5/A2 Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays; may be leached.

A7 Silicification with pyrite. Minor clay remnants.

A7/A2 Silicification and argillization with pyrite. Matrix silicified. Feldspars altered to clays.

A8 "Pre-phyllic" alteration; weak to strong replacement. Original textures variably preserved. Feldspars are argillized; mafic minerals are pyritized; pyrite is commonly limonitized. Moderate silica flooding throughout groundmass. Generally unconsolidated.

Diamond Drill Hole

Au Assay Interval (g/t)

Longitudinal Section Line

Geologic Contact

Surficial Geologic Contact

Fault

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD.

AL PROPERTY

BONANZA ZONE

GEOLOGY

CROSS SECTION 4

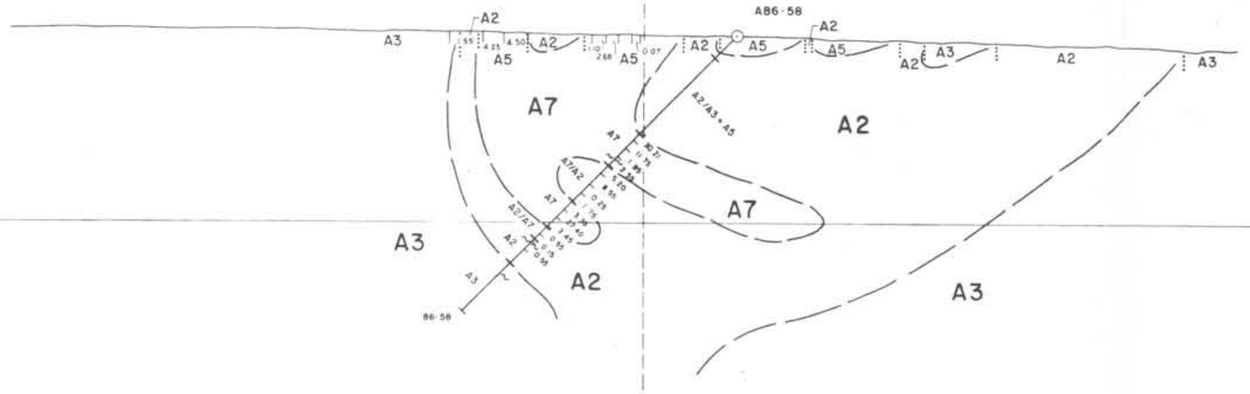
LOOKING 318°

SCALE 1:200

DATE Nov 1986 | NTS 94E/5W | FIG. 9

BY LKE / VJB | CHKD

ELEVATIONS IN METRES



ELEVATIONS IN METRES

1700
1690
1680
1670
1660
1650
1640

LEGEND

A2 Pervasive argillization. Local original texture preserved. Feldspars completely altered to clay/sericite; mafics obscured or clay-altered; groundmass argillized ± sericitized ± slightly silicified ± hematized.

A2/A3 A3/A2 Weak pervasive argillization with hematite flooding in matrix.

A3 Weak argillic, sericitic and/or propylitic alteration; partial replacement by variable clay-sericite-chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.

A5 Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as tan ghosts. Groundmass silicified usually with weak hematization. Vugs, trace to 5%, variable quartz druse, may be coated with Fe oxides. Vugs from leached feldspar and between breccia fragments.

A2/A5 Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured.

A5/A2 Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays, may be leached.

A7 Silicification with pyrite. Minor clay remnants.

A7/A2 Silicification and argillization with pyrite. Matrix silicified. Feldspars altered to clays.

A8 "Pre-phyllic" alteration, weak to strong replacement. Original textures variably preserved. Feldspars are argillized, mafic minerals are pyritized, pyrite is commonly limonitized. Moderate silica flooding throughout groundmass. Generally unconsolidated.

- Diamond Drill Hole
- Au Assay Interval (g/t)
- Longitudinal Section Line
- Geologic Contact
- Surficial Geologic Contact
- Fault

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD
705 - 850 W. Hastings St.
Vancouver, B.C.
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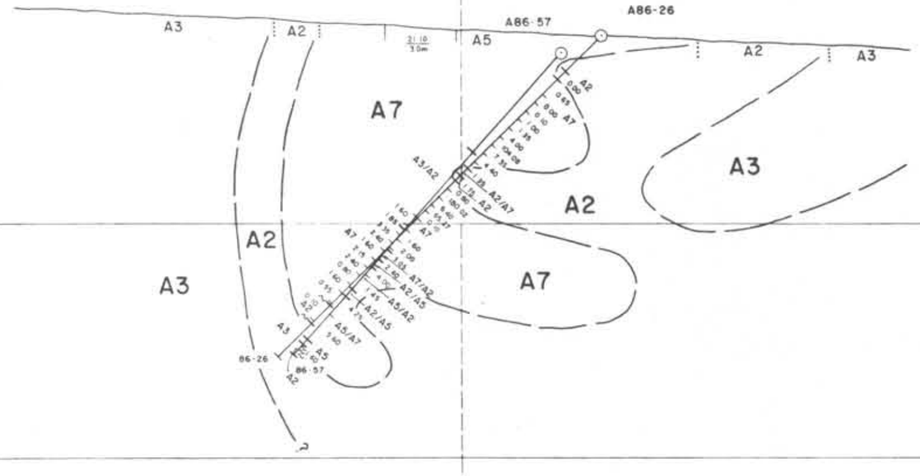
Telephone (604) 684-0288

AL PROPERTY
BONANZA ZONE
GEOLOGY
CROSS SECTION 5
LOOKING 318°

SCALE 1:200

DATE Nov 1986	NTS 94E/6W	FIGURE NO.
BY LKE/VJG	CHKD	FIG. 9

ELEVATIONS IN METRES



ELEVATIONS IN METRES

1700
1690
1680
1670
1660
1650
1640

LEGEND

A2	Pervasive argillization. Local original texture preserved. Feldspars completely altered to clay/sericite; mafics obscured or clay-altered, groundmass argillized ± sericitized ± slightly silicified ± hematized.
A2/A3 A3/A2	Weak pervasive argillization with hematite flooding in matrix.
A3	Weak argillic, sericitic and/or propylitic alteration; partial replacement by variable clay-sericite-chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.
A5	Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as tan ghosts. Groundmass silicified usually with weak hematization. Vugs, trace to 15%, variable quartz druse, may be coated with Fe oxides. Vugs from leached feldspar and between breccia fragments.
A2/A5	Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured.
A5/A2	Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays; may be leached.
A7	Silicification with pyrite. Minor clay remnants.
A7/A2	Silicification and argillization with pyrite. Matrix silicified. Feldspars altered to clays.
A8	"Fine-phyllic" alteration, weak to strong replacement. Original textures variably preserved. Feldspars are argillized; mafic minerals are pyritized, pyrite is commonly limonitized. Moderate silica flooding throughout groundmass. Generally unconsolidated.

Diamond Drill Hole

3.2 — Au Assay Interval (g/t)

Longitudinal Section Line

Geologic Contact

Surficial Geologic Contact

Fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD.

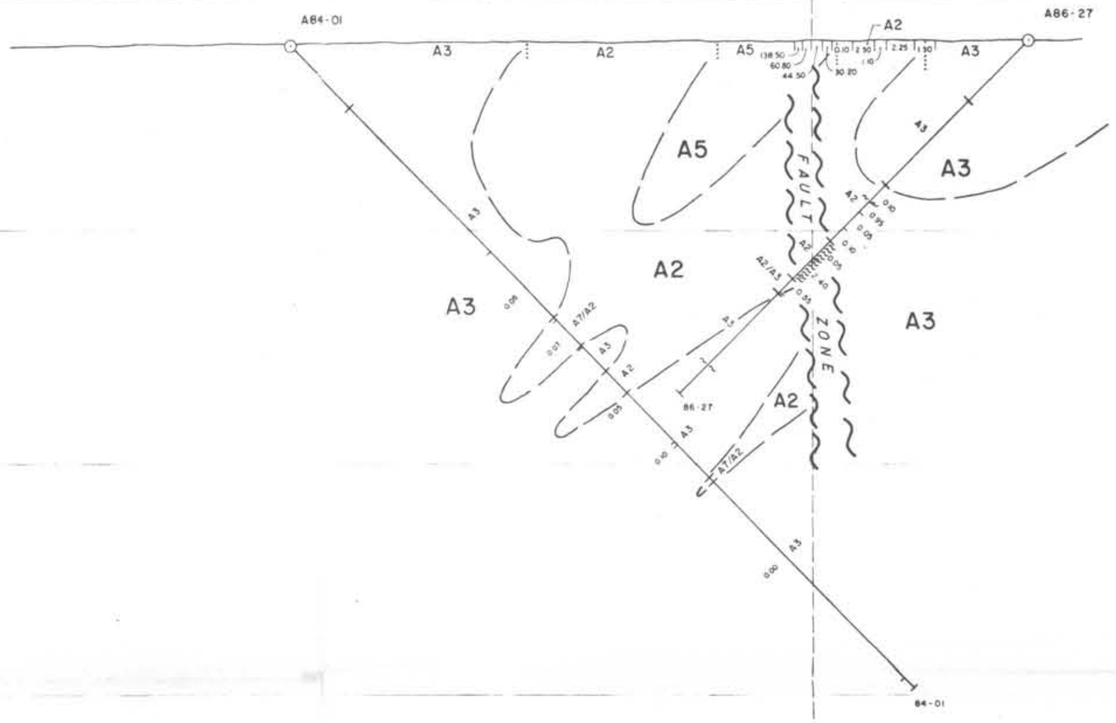
AL PROPERTY
BONANZA ZONE
GEOLOGY
CROSS SECTION 6
LOOKING 318°

SCALE 1:200

DATE Nov 1986 | DWG. FIG. 9

BY: LKE/VJS

ELEVATIONS IN METRES



ELEVATIONS IN METRES

1700
1690
1680
1670
1660
1650
1640

LEGEND

A2 Pervasive argillization. Local original texture preserved. Feldspars completely altered to clay/sericite; mafics obscured or clay-altered; groundmass argillized ± sericitized ± slightly silicified ± hematized.

A2/A3 A3/A2 Weak pervasive argillization with hematite flooding in matrix.

A3 Weak argillic, sericitic and/or propylitic alteration; partial replacement by variable clay-sericite-chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.

A5 Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as ton ghosts. Groundmass silicified usually with weak hematization. Vugs, trace to 15%, variable quartz d.ose, may be coated with Fe oxides. Vugs from leached feld par and between breccia fragments

A2/A5 Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured.

A5/A2 Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays, may be leached.

A7 Silicification with pyrite. Minor clay remnants.

A7/A2 Silicification and argillization with pyrite. Matrix silicified. Feldspars altered to clays.

A8 "Pre-phyllic" alteration; weak to strong replacement. Original textures variably preserved. Feldspars are argillized, mafic minerals are pyritized; pyrite is commonly limonitized. Moderate silica flooding throughout groundmass. Generally unconsolidated.

Diamond Drill Hole

Au Assay Interval (g/t)

Fault

Longitudinal Section Line

Geologic Contact

Surficial Geologic Contact

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD
703 - 850 W. Hastings St.
Vancouver, B.C.
V6C 1E1
Telephone (604) 684-1256

AL PROPERTY
BONANZA ZONE
GEOLOGY
CROSS SECTION 7
LOOKING 318°

SCALE 1:200

DATE Nov 1986	NTS 94E/6W	FIGURE NO.
BY LKE/VJS	CHKD	FIG. 9

ELEVATIONS IN METRES

ELEVATIONS IN METRES

1700

1690

1680

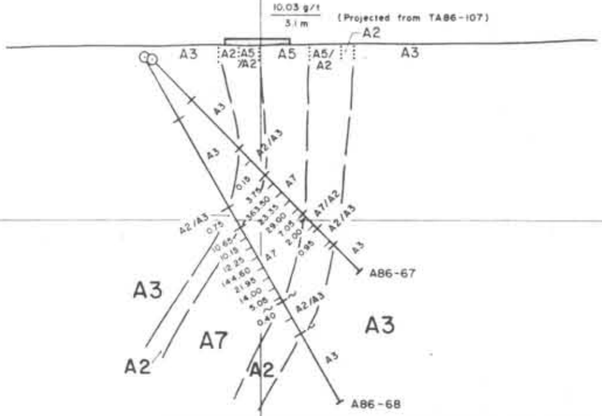
1670

1660

1650

1640

Section Line



4.3 No significant gold values

A2/A3

4.3 A82-09 (Projected portion from 33.1 - 51.2 m)

LEGEND

A2 Pervasive argillization. Local original texture preserved. Feldspars completely altered to clay/sericite, mafics obscured or clay-altered; groundmass argillized ± sericitized ± slightly silicified ± hematized.

A2/A3 A3/A2 Weak pervasive argillization with hematite flooding in matrix.

A3 Weak argillic, sericitic and/or propylitic alteration; partial replacement by variable clay-sericite chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.

A5 Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as ton ghosts. Groundmass silicified usually with weak hematization. Vugs, trace to 15%, variable quartz druse, may be coated with Fe oxides. Vugs from leached feldspar and between breccia fragments.

A2/A5 Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured.

A5/A2 Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays; may be leached.

A7 Silicification with pyrite. Minor clay remnants.

A7/A2 Silicification and argillization with pyrite. Matrix silicified. Feldspars altered to clays.

A8 "Pre-phyllic" alteration; weak to strong replacement. Original textures variably preserved. Feldspars are argillized; mafic minerals are pyritized; pyrite is commonly limonitized. Moderate silica flooding throughout groundmass. Generally unconsolidated.

Diamond Drill Hole

11.25 / 1 — Au Assay Interval (g/t)

Longitudinal Section Line

Geologic Contact

Surficial Geologic Contact

Fault

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD
703-800 W Hastings St
Vancouver, B.C.
V6C 1E1
Telephone (604)684-1258

AL PROPERTY

BONANZA SOUTH EXTENSION

GEOLOGY

CROSS SECTION 16

LOOKING 352°

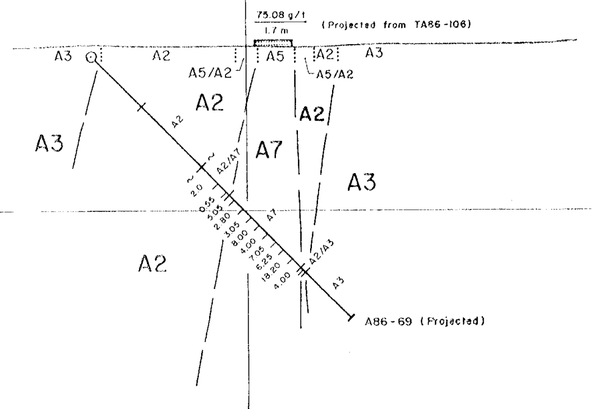
SCALE 1:200

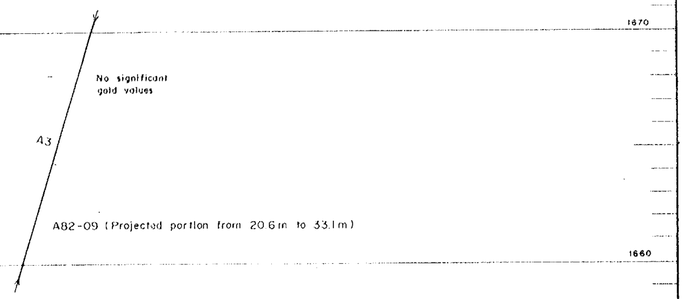
DATE NOV. 86 | NTS 94E/6W | FIGURE 9

BY H.A. | CHKD.

FIG. 9

ELEVATIONS IN METRES





Section Line

1700
1690
1680
1670
1660
1650
1640

ELEVATIONS IN METRES

LEGEND

A2	Pervasive argillization. Local original texture preserved. Feldspars completely altered to clay/sericite; mafics obscured or clay-altered; groundmass argillized ± sericitized ± slightly silicified ± hematized.
A2/A3 A3/A2	Weak pervasive argillization with hematite flooding in matrix
A3	Weak argillic, sericitic and/or propylitic alteration; partial replacement by variable clay-sericite -chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.
A5	Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as ghosts. Groundmass silicified usually with weak hematization. Vugs, trace to 15%, variable quartz druse, may be coated with Fe oxides. Vugs from leached feldspar and between breccia fragments.
A2/A5	Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured.
A5/A2	Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays, may be leached.
A7	Silicification with pyrite. Minor clay remnants.
A7/A2	Silicification and argillization with pyrite. Matrix silicified. Felespars altered to clays
A8	"Pre-phyllic" alteration; weak to strong replacement. Original textures variably preserved. Feldspars are argillized; mafic minerals are pyritized, pyrite is commonly limonitized. Moderate silica throughout groundmass. Generally unconsolidated.

- Diamond Drill Hole
- 13.2 — Au Assay Interval (g/t)
- Longitudinal Section Line
- Geologic Contact
- Surficial Geologic Contact
- ~~~~~ Fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD
703-880 W. Hastings St.
Vancouver, B.C.
V6C 1E1
Telephone (604) 684-1258

AL PROPERTY
BONANZA SOUTH EXTENSION
GEOLOGY
CROSS SECTION 17
LOOKING 352°

m 0 1 2 3 4 5 6 7 8 m
SCALE 1:200

DATE NOV. 86	NTS 94E/6W	FIGURE NO.
BY H.A.	CHKD.	FIG. 9 1

ELEVATIONS IN METRES

ELEVATIONS IN METRES

1700

1690

1680

1670

1660

1650

1640

Section Line

87g/t
2.2m
(Projected from TA86-103)

A3 | A5/A2 | A5 | A3

A3
A2/A3
A7/A2
A7
A2/A3
A3

1.79
2.80
5.45
4.40
2.80
0.80
0.80
3.85
6.45
13.35
5.75
10.80
6.25
2.40

A86-70 (Projected)

A3
A7/A2
A7
A3
A2

A3
A2
A3

A82-09 (Projected portion from 5.2 m to 20.6 m)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

LEGEND

A2 Pervasive argillization. Local original texture preserved. Feldspars completely altered to clay-sericite, mafics obscured or clay-altered, groundmass argillized ± sericitized ± slightly silicified ± hematized.

A2/A3 A3/A2 Weak pervasive argillization with hematite flooding in matrix.

A3 Weak argillic, sericitic and/or propylitic alteration; partial replacement by variable clay-sericite-chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.

A5 Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as ghosts. Groundmass silicified usually with weak hematization. Vugs, trace to 1%, variable quartz druse, may be coated with Fe oxides. Vugs from leached feldspar and between breccia fragments.

A2/A5 Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured.

A5/A2 Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays, may be leached.

A7 Silicification with pyrite. Minor clay remnants.

A7/A2 Silicification and argillization with pyrite. Matrix silicified. Feldspars altered to clays.

A8 "Pre-phyllic" alteration; weak to strong replacement. Original textures variably preserved. Feldspars are argillized, mafic minerals are pyritized, pyrite is commonly limonitized. Moderate silica flooding throughout groundmass. Generally unconsolidated.

Diamond Drill Hole

1.79 Au Assay Interval (g/t)

Longitudinal Section Line

Geologic Contact

Surficial Geologic Contact

~~~~~ Fault

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD
703-850 W Hastings St
Vancouver, B.C.
V6C 1E1
Telephone (604)684-1258

AL PROPERTY
BONANZA SOUTH EXTENSION
GEOLOGY
CROSS SECTION 18
LOOKING 352°

m 1 0 1 2 3 4 5 6 7 8 m
SCALE 1:200

DATE NOV 86	NTS 94E/6W	FIGURE NO.
BY H.A.	CHKD.	FIG. 9
~~~~~

ELEVATIONS IN METRES

ELEVATIONS IN METRES

LEGEND

A2 Pervasive argillization. Local original texture preserved. Feldspars completely altered to clay/sericite; mafics obscured or clay-altered; groundmass argillized ± sericitized ± slightly silicified ± hematized.

A2/A3 A3/A2 Weak pervasive argillization with hematite flooding in matrix.

A3 Weak argillic, sericitic and/or propylitic alteration; partial replacement by variable clay-sericite-chlorite assemblages. Generally dark purple matrix with intense hematite flooding and feldspars altered to clay ± sericite.

A5 Silicification. No pyrite. Original texture preserved locally. Feldspars silicified, may be preserved as ghosts. Groundmass silicified usually with weak hematization. Vugs, trace to 15%, variable quartz druse, may be coated with Fe oxides. Vugs from leached feldspar and between breccia fragments.

A2/A5 Argillization with silicification. Matrix has weak silicification and minor hematite flooding. Primary textures usually obscured.

A5/A2 Silicification with argillization. Matrix silicified with minor hematite. Feldspars altered to clays; may be leached.

A7 Silicification with pyrite. Minor clay remnants.

A7/A2 Silicification and argillization with pyrite. Matrix silicified. Feldspars altered to clays.

A8 "Pre-phyllic" alteration; weak to strong replacement. Original textures variably preserved. Feldspars are argillized, mafic minerals are pyritized, pyrite is commonly limonitized. Moderate silica flooding throughout groundmass. Generally unconsolidated.

Diamond Drill Hole

Au Assay Interval (g/t)

Longitudinal Section Line

Geologic Contact

Surficial Geologic Contact

~~~~~~ Fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD
703 - 850 W Hastings St
Vancouver, B.C.
V6C 1E1
Telephone (604)684-1258

AL PROPERTY
BONANZA SOUTH EXTENSION
GEOLOGY
CROSS SECTION 19
LOOKING 352°

m 0 1 2 3 4 5 6 7 8 m
SCALE 1:200

DATE NOV. 86	N.T.S. 94E/6W	FIGURE NO.
BY H.A.	CHKD	FIG. 9 K
~~~~~~

AL PROPERTY

BV ZONE

- trenches
- diamond drill holes
- geology

August 1986

* N.B.

all pre-1986 features were simply traced from a distorted copy of ("GENERALIZED GEOLOGY & MINERALIZATION PLAN" BV ZONE NOV 1985) and may be misplotted by as much as two metres

LEGEND

- pre 1986 DDH (diamond drill hole)
- 1986 DDH
- trench
- survey hub
- stripped area
- ore grade mineralization above 1 g/t
- extension unmineralized
- detailed reserve calculations & zoning (1986)

Scale 1:1000

energex MINERALS LTD.

Al Property
BV ZONE

GENERAL GEOLOGY
TRENCHES & DIAMOND DRILL HOLES
& 1986 GEOPHYSICS GRID

Scale 1:1000

Aug 1986

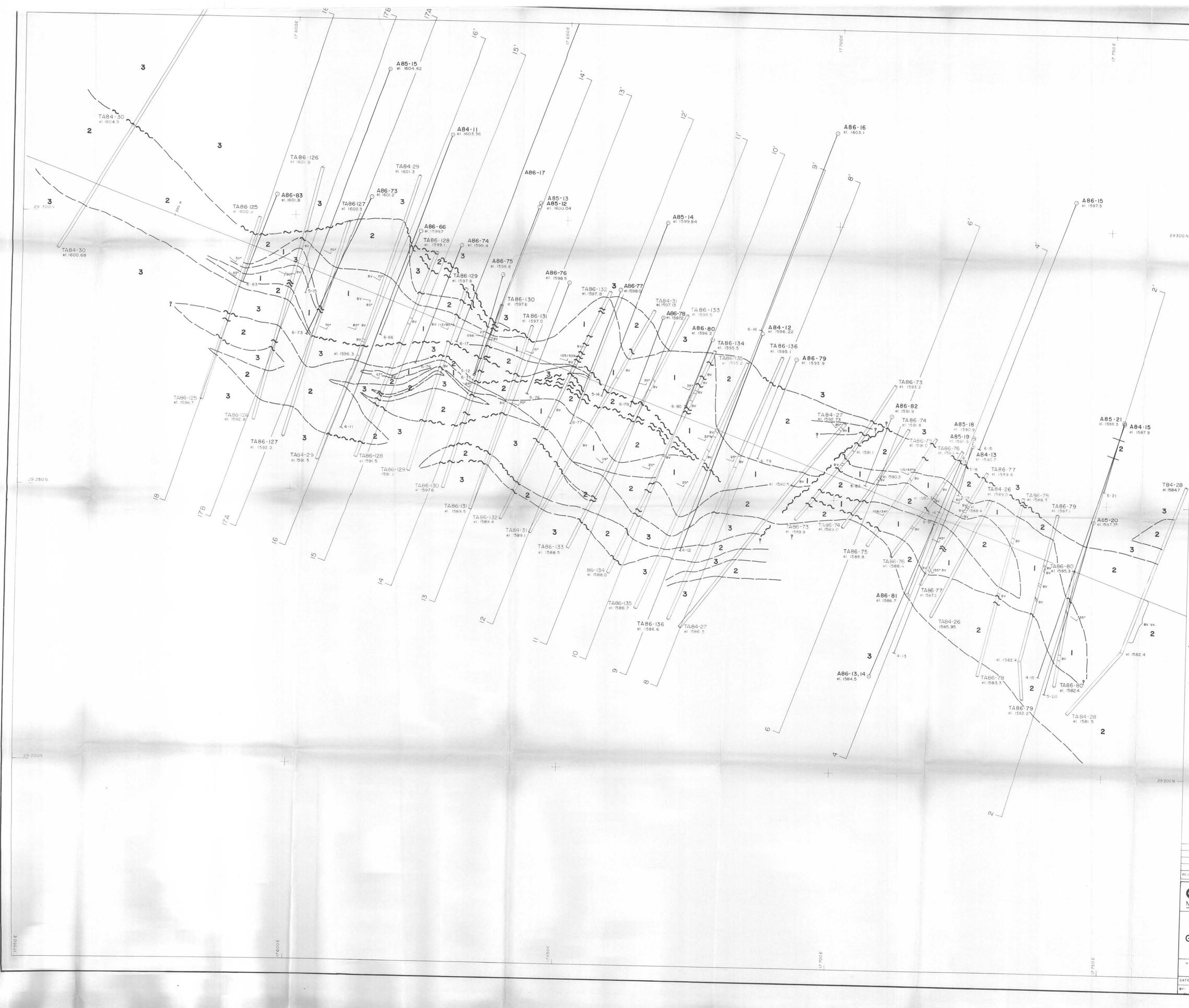
FIG. 10

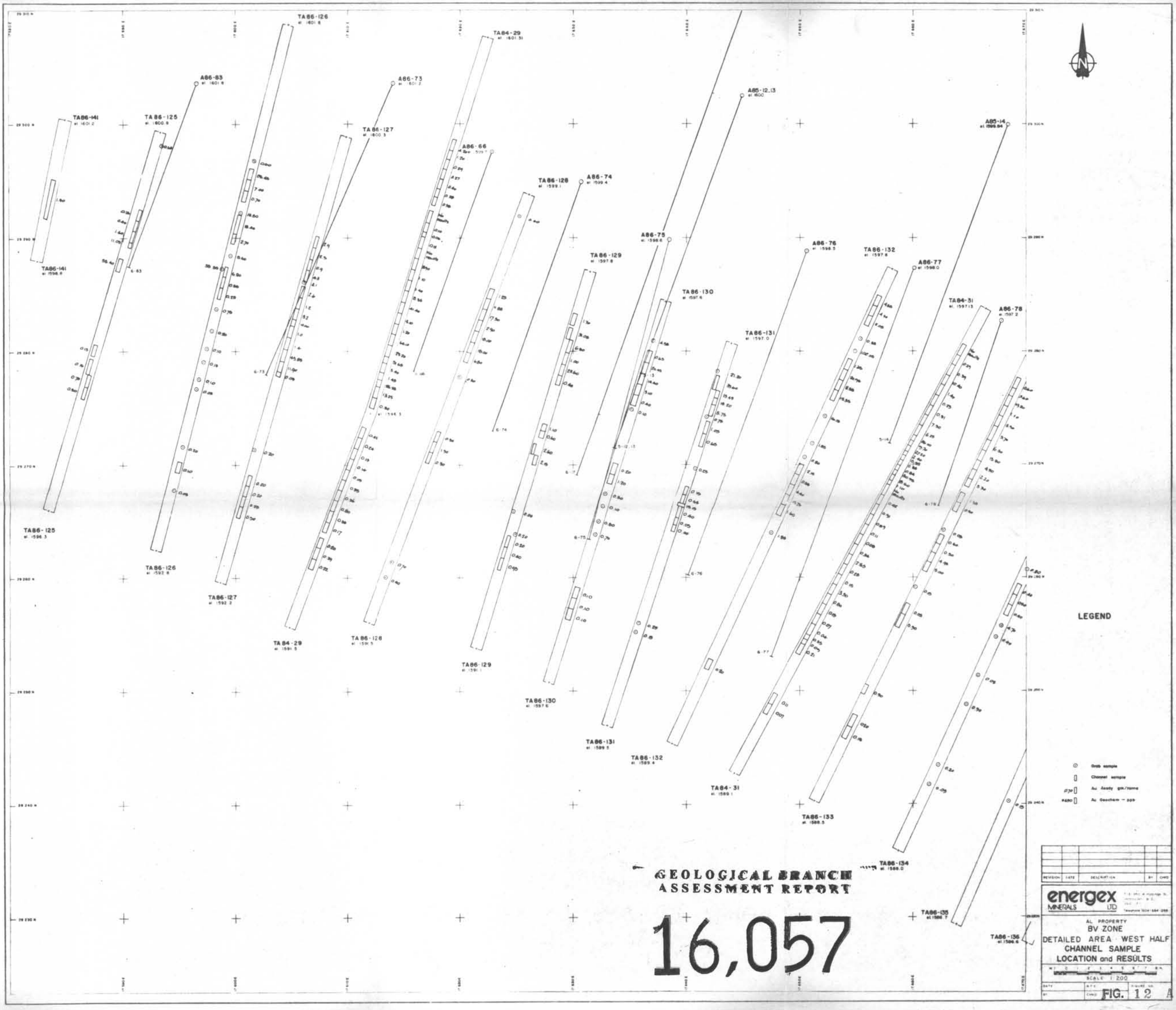
BV 110°

stripped area

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057


17600E
17650E
17700E
17750E
29300N
29250N
29200N
A85-15 el. 1604.62
A84-11 el. 1603.36
A86-16 el. 1603.1
A86-17
A85-13 A85-12 el. 1600.04
A85-14 el. 1599.84
A86-15 el. 1597.5
A86-83 el. 1601.8
A86-73 el. 1601.2
A86-66 el. 1599.7
A86-74 el. 1599.4
A86-75 el. 1598.6
A86-76 el. 1598.5
A86-77 el. 1598.0
A86-78 el. 1597.2
A86-80 el. 1596.2
A84-12 el. 1596.22
A86-79 el. 1593.9
A86-82 el. 1591.9
A85-18 el. 1590.9
A85-19 el. 1591.9
A84-13 el. 1590.7
A85-21 el. 1588.3
A84-15 el. 1587.9
T84-28 el. 1584.7
A85-20 el. 1587.35
A86-81 el. 1586.7
A86-13, 14 el. 1584.5
TA84-30 el. 1604.9
TA84-30 el. 1600.68
TA86-126 el. 1601.8
TA84-29 el. 1601.3
TA86-125 el. 1600.9
TA86-127 el. 1600.3
TA86-128 el. 1599.1
TA86-129 el. 1597.8
TA86-130 el. 1597.6
TA86-131 el. 1597.0
TA86-132 el. 1597.8
TA84-31 el. 1597.13
TA86-133 el. 1596.5
TA86-134 el. 1595.5
TA86-135 el. 1595.2
TA86-136 el. 1595.1
TA86-73 el. 1593.2
TA84-27 el. 1592.73
TA86-74 el. 1591.8
TA86-75 el. 1591.0
TA86-76 el. 1592.4
TA84-26 el. 1589.0
TA86-77 el. 1589.6
TA86-78 el. 1588.5
TA86-79 el. 1587.1
TA86-80 el. 1585.3
TA84-26 1585.95
TA86-77 el. 1587.2
TA86-78 el. 1583.3
TA86-80? el. 1582.4
TA86-79 el. 1582.2
TA84-28 el. 1581.5
TA86-125 el. 1596.3
TA86-126 el. 1592.8
TA86-127 el. 1592.2
TA84-29 el. 1591.5
TA86-128 el. 1591.5
TA86-129 1591.1
TA86-130 el. 1597.6
TA86-131 el. 1589.5
TA86-132 el. 1589.4
TA84-31 el. 1589.1
TA86-133 el. 1588.5
86-134 el. 1588.0
TA86-135 el. 1586.7
TA86-136 el. 1586.6
TA84-27 el. 1586.5
TA86-75 el. 1588.8
TA86-76 el. 1588.4
TA86-74 el. 1589.0
A86-73 el. 1589.9
el. 1582.4
el. 1582.4
A86-16 el. 1603.1
A86-15 el. 1597.5
A84-12 el. 1596.22
A86-79 el. 1593.9
A86-82 el. 1591.9
A84-13 el. 1590.7
A84-15 el. 1587.9
T84-28 el. 1584.7
A85-20 el. 1587.35
A86-80 el. 1585.3?
A86-81 el. 1586.7
A86-13, 14 el. 1584.5
TA84-26 1585.95
TA86-78 el. 1583.3
TA86-80? el. 1582.4
TA86-79 el. 1582.2
TA84-28 el. 1581.5
A86-83 el. 1601.8
A86-73 el. 1601.2
A86-66 el. 1599.7
A86-74 el. 1599.4
A86-75 el. 1598.6
A86-76 el. 1598.5
A86-77 el. 1598.0
A86-78 el. 1597.2
A86-80 el. 1596.2
A86-79 el. 1593.9
A86-82 el. 1591.9
A85-18 el. 1590.9
A85-19 el. 1591.9
A84-13 el. 1590.7
A85-21 el. 1588.3
A84-15 el. 1587.9
T84-28 el. 1584.7
A85-20 el. 1587.35
A86-81 el. 1586.7
A86-13, 14 el. 1584.5
A85-15 el. 1604.62
A84-11 el. 1603.36
A86-16 el. 1603.1
A86-17
A85-13 A85-12 el. 1600.04
A85-14 el. 1599.84
A86-15 el. 1597.5
A86-17
A85-15 el. 1604.62
A84-11 el. 1603.36
A86-16 el. 1603.1
A85-13 A85-12 el. 1600.04
A85-14 el. 1599.84
A86-15 el. 1597.5
A86-83 el. 1601.8
A86-73 el. 1601.2
A86-66 el. 1599.7
A86-74 el. 1599.4
A86-75 el. 1598.6
A86-76 el. 1598.5
A86-77 el. 1598.0
A86-78 el. 1597.2
A86-80 el. 1596.2
A84-12 el. 1596.22
A86-79 el. 1593.9
A86-82 el. 1591.9
A85-18 el. 1590.9
A85-19 el. 1591.9
A84-13 el. 1590.7
A85-21 el. 1588.3
A84-15 el. 1587.9
T84-28 el. 1584.7
A85-20 el. 1587.35
A86-81 el. 1586.7
A86-13, 14 el. 1584.5
TA84-30 el. 1604.9
TA84-30 el. 1600.68
TA86-126 el. 1601.8
TA84-29 el. 1601.3
TA86-125 el. 1600.9
TA86-127 el. 1600.3
TA86-128 el. 1599.1
TA86-129 el. 1597.8
TA86-130 el. 1597.6
TA86-131 el. 1597.0
TA86-132 el. 1597.8
TA84-31 el. 1597.13
TA86-133 el. 1596.5
TA86-134 el. 1595.5
TA86-135 el. 1595.2
TA86-136 el. 1595.1
TA86-73 el. 1593.2
TA84-27 el. 1592.73
TA86-74 el. 1591.8
TA86-75 el. 1591.0
TA86-76 el. 1592.4
TA84-26 el. 1589.0
TA86-77 el. 1589.6
TA86-78 el. 1588.5
TA86-79 el. 1587.1
TA86-80 el. 1585.3?
TA84-26 1585.95
TA86-77 el. 1587.2
TA86-78 el. 1583.3
TA86-80? el. 1582.4
TA86-79 el. 1582.2
TA84-28 el. 1581.5
TA86-125 el. 1596.3
TA86-126 el. 1592.8
TA86-127 el. 1592.2
TA84-29 el. 1591.5
TA86-128 el. 1591.5
TA86-129 1591.1
TA86-130 el. 1597.6
TA86-131 el. 1589.5
TA86-132 el. 1589.4
TA84-31 el. 1589.1
TA86-133 el. 1588.5
86-134 el. 1588.0
TA86-135 el. 1586.7
TA86-136 el. 1586.6
TA84-27 el. 1586.5
TA86-75 el. 1588.8
TA86-76 el. 1588.4
TA86-74 el. 1589.0
A86-73 el. 1589.9
el. 1582.4
el. 1582.4
A86-16 el. 1603.1
A86-15 el. 1597.5
A84-12 el. 1596.22
A86-79 el. 1593.9
A86-82 el. 1591.9
A84-13 el. 1590.7
A84-15 el. 1587.9
T84-28 el. 1584.7
A85-20 el. 1587.35
A86-80 el. 1585.3?
A86-81 el. 1586.7
A86-13, 14 el. 1584.5
TA84-26 1585.95
TA86-78 el. 1583.3
TA86-80? el. 1582.4
TA86-79 el. 1582.2
TA84-28 el. 1581.5
LEGEND
3 Purple porphyritic volcanics unaltered host rock.
2 Altered, unmineralized host rock – silicified + clayed. Au values < 1 gm / tonne.
1 Altered, mineralized host rock ± Barite. Au values > 1 gm / tonne
Fault, inferred.
70° Attitude of mineralized zone.
BV Barite vein.
Diamond drill hole.
Trench.
Geologic contact.
GEOLOGICAL BRANCH ASSESSMENT REPORT
16,057
REVISION DATE DESCRIPTION BY CHKD
energex MINERALS LTD
703-950 W. Hastings St. Vancouver, B. C. V6C 1E1
Telephone (604) 684-258
AL PROPERTY
BV ZONE-DETAIL AREA
GEOLOGY & STRUCTURE MAP
m 2 0 4 6 8 10 m
SCALE 1:200
DATE: Nov 1986
NTS: 94E/6W
FIGURE NO. FIG. 11
BY:
CHKD.:




TA86-133
TA86-134
TA86-135
TA86-136
A84-12
A86-80
A86-79
TA86-73
A86-82
TA84-27
TA86-74
TA86-75
A85-19
A85-18
A84-13
TA86-76
TA86-77
TA86-78
TA86-79
A85-21
A84-15
A85-20
TA84-28
TA86-80
A86-81
A86-13, 14
TA84-26
LEGEND
Grab sample
Channel sample
Au Assay gm/ton
Au Geochem ppb
GEOLOGICAL BRANCH
ASSESSMENT REPORT
16,057
energex MINERALS LTD
AL PROPERTY
BV ZONE
DETAILED AREA - EAST HALF
CHANNEL SAMPLE
LOCATION and RESULTS
SCALE 1:200
FIG. 12 B

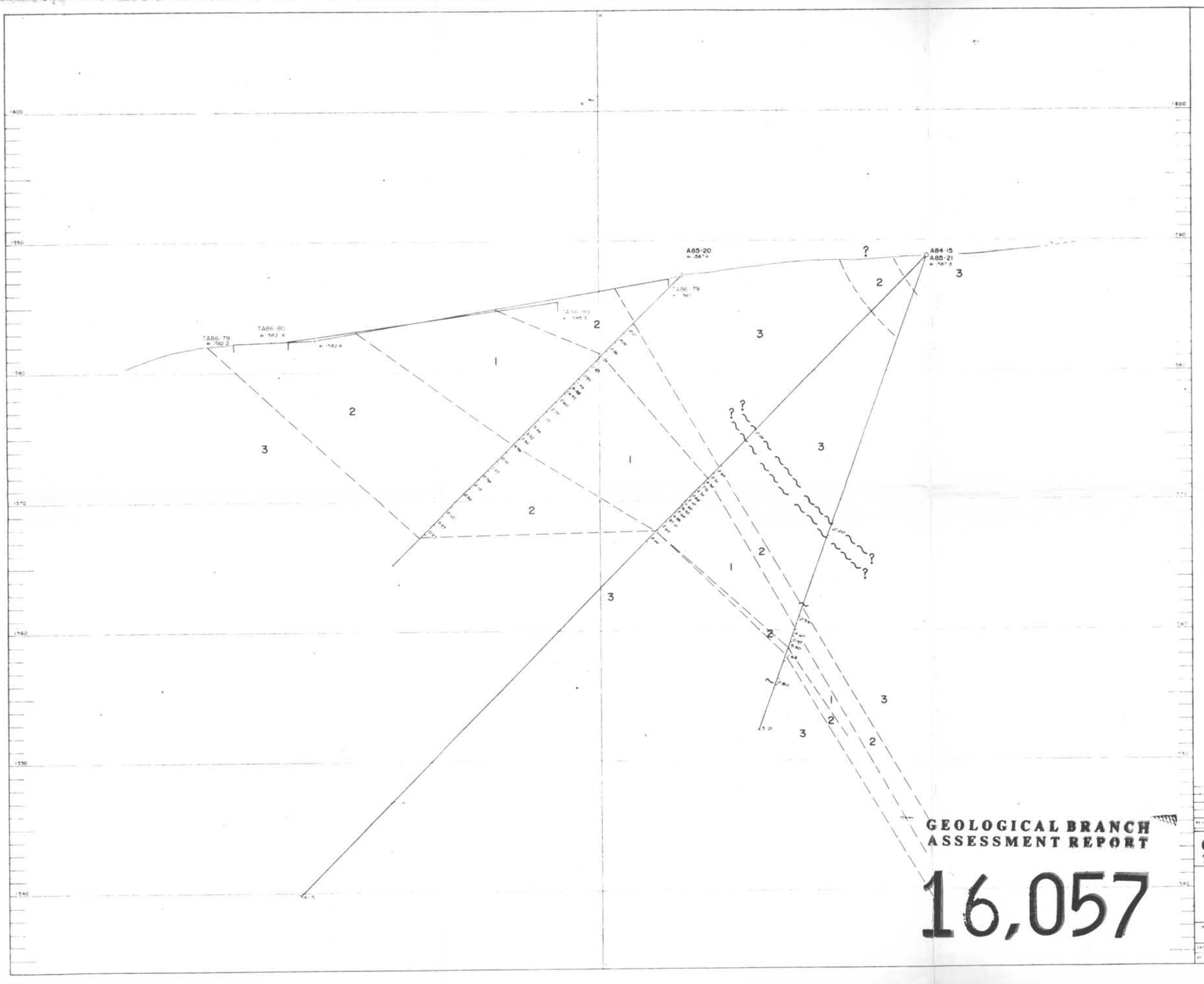
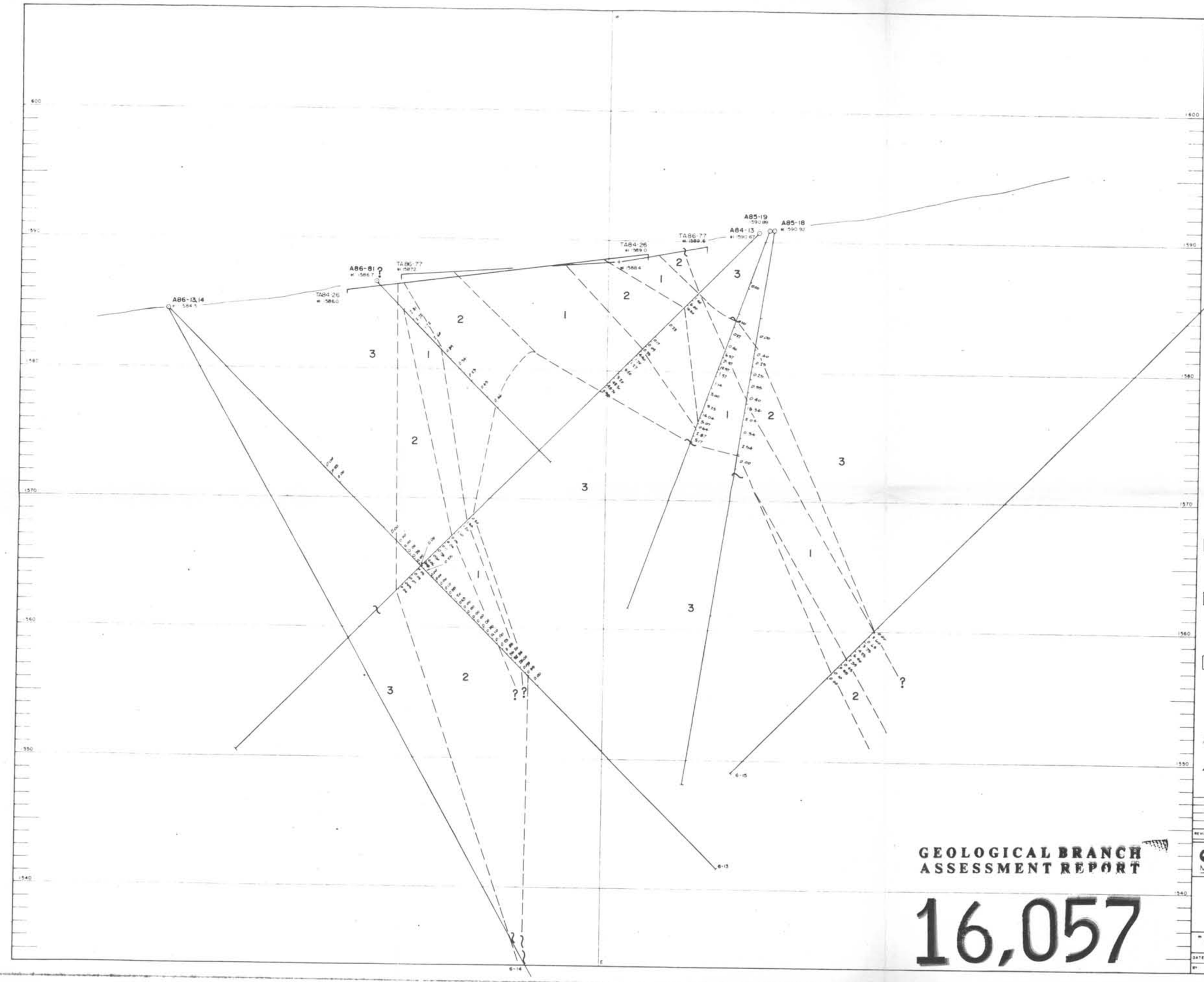


FIG. 13 A

8604-402-06



LEGEND

3 Unaltered host rock - purple porphyritic volcanics.

2 Silicified + clayed host rock - unmineralized with gold. Au grades < 1 gm / tonne

1 Mineralized, altered host rock ± Barite Au grades > 1 gm / tonne

Drill hole

Au Assay

Fault

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD

AL PROPERTY
BV ZONE
CROSS SECTION 4
GEOLOGY
LOOKING 290° NORTHWEST

SCALE 1:200

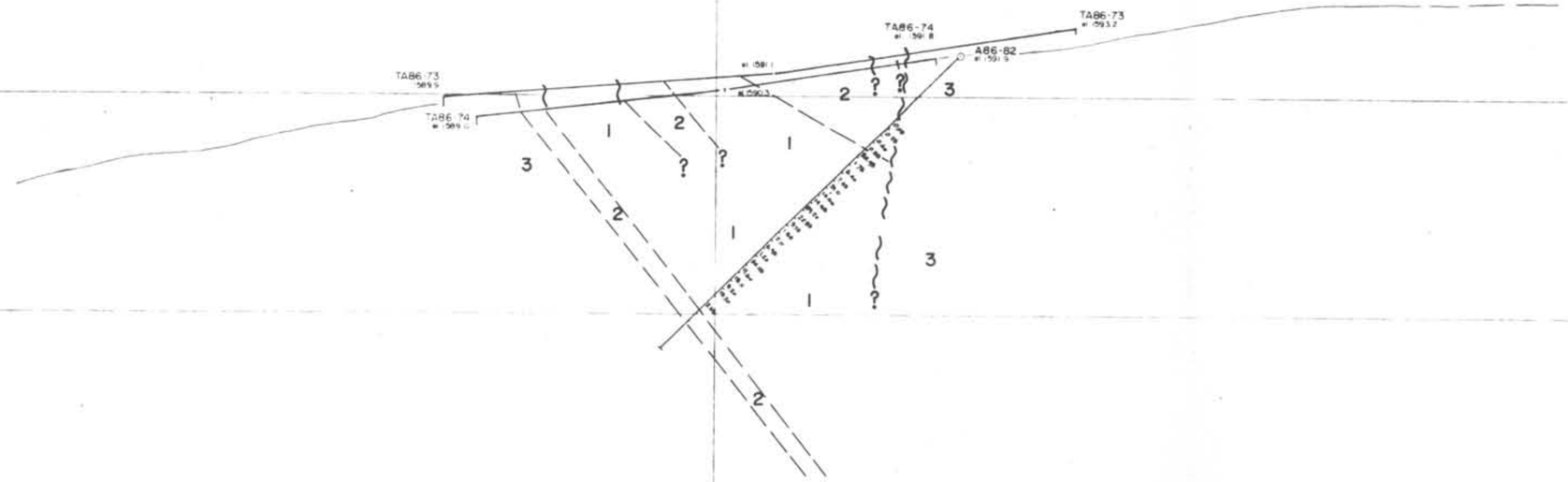
DATE Nov 86 NTS
BY LKE CHKD

FIGURE NO. 8 of 402 B-4

FIG. 18

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057



LEGEND

- 3 — Unaltered host rock - purple porphyritic volcanics.
- 2 — Silicified + clayed host rock - unmineralized with gold. Au grades < 1 gm / tonne
- 1 — Mineralized, altered host rock ± Barite Au grades > 1 gm / tonne
- Drill hole
- Au Assay
- Fault

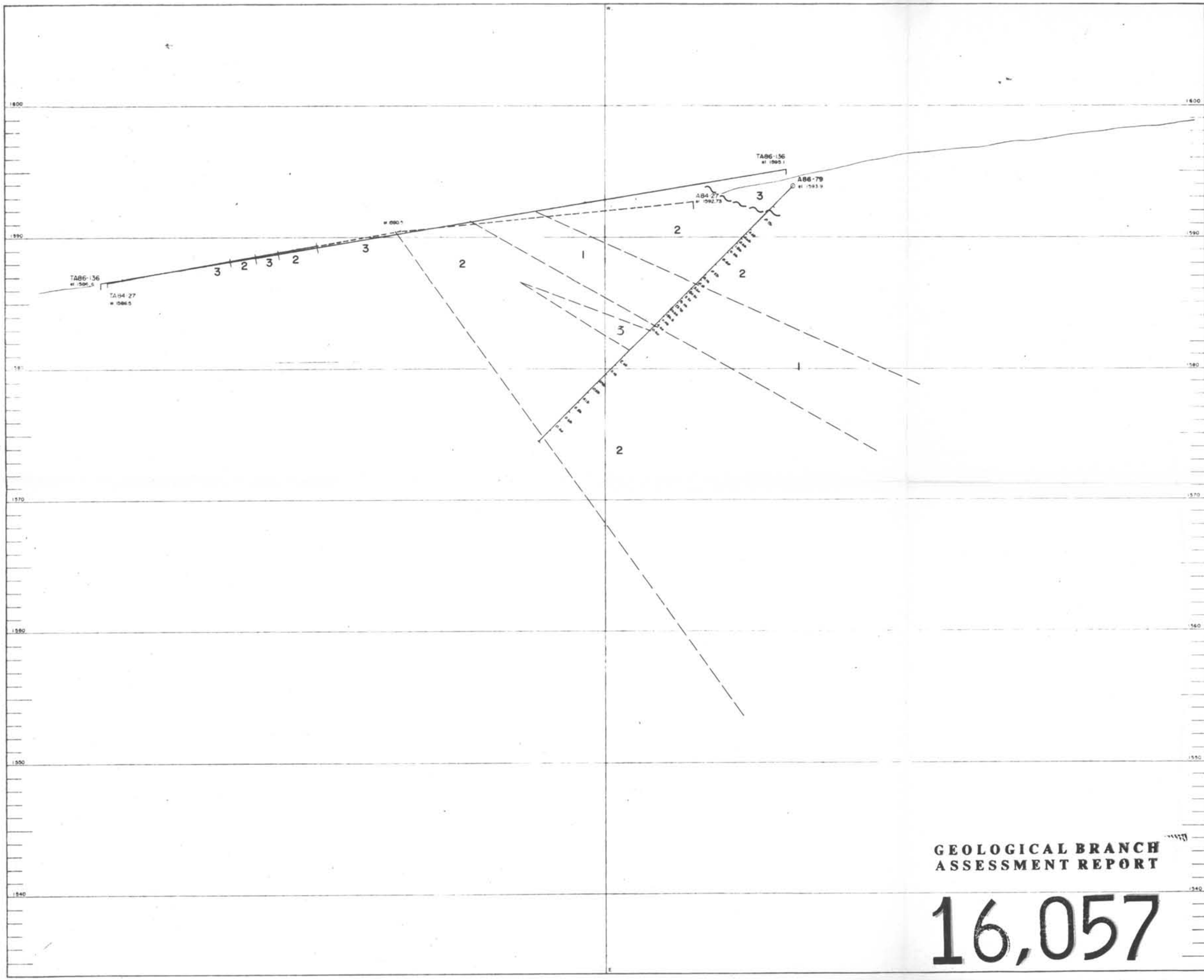
REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD

AL PROPERTY
BV ZONE
CROSS SECTION 6
GEOLOGY
LOOKING 290° NORTHWEST

SCALE 1:200

DATE NOV. 86 | NTS | FIGURE NO. FIG. 8
BY LKE | CHKD



LEGEND

3 Unaltered host rock – purple porphyritic volcanics.

2 Silicified + clayed host rock – unmineralized with gold. Au grades < 1 gm / tonne

1 Mineralized, altered host rock ± Barite Au grades > 1 gm / tonne

Drill hole

Au Assay

Fault

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD

AL PROPERTY
BV ZONE

CROSS SECTION 8
GEOLOGY
LOOKING 290° NORTHWEST

SCALE 1:200

DATE Nov. 86 | NTS | FIGURE NO. FIG. 16B-40D06
BY L.K.E | CHKD

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

TA86-135
+ 590.2
TA86-134
+ 1593.5
A84-12
+ 596.22
A86-16
TA86-134
+ 1586.0
TA86-135
+ 586.7
1600
590
1580
1570
1560
1550
1540
#1. 54.86 m

LEGEND

3 Unaltered host rock - purple porphyritic volcanics.

2 Silicified + clayed host rock - unmineralized with gold. Au grades < 1 gm / tonne

1 Mineralized, altered host rock ± Barite Au grades > 1 gm / tonne

Drill hole

Au Assay

Fault

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V6C 1E1
Telephone (604) 684 1256

AL PROPERTY
BV ZONE
CROSS SECTION 9
GEOLOGY
LOOKING 290° NORTHWEST

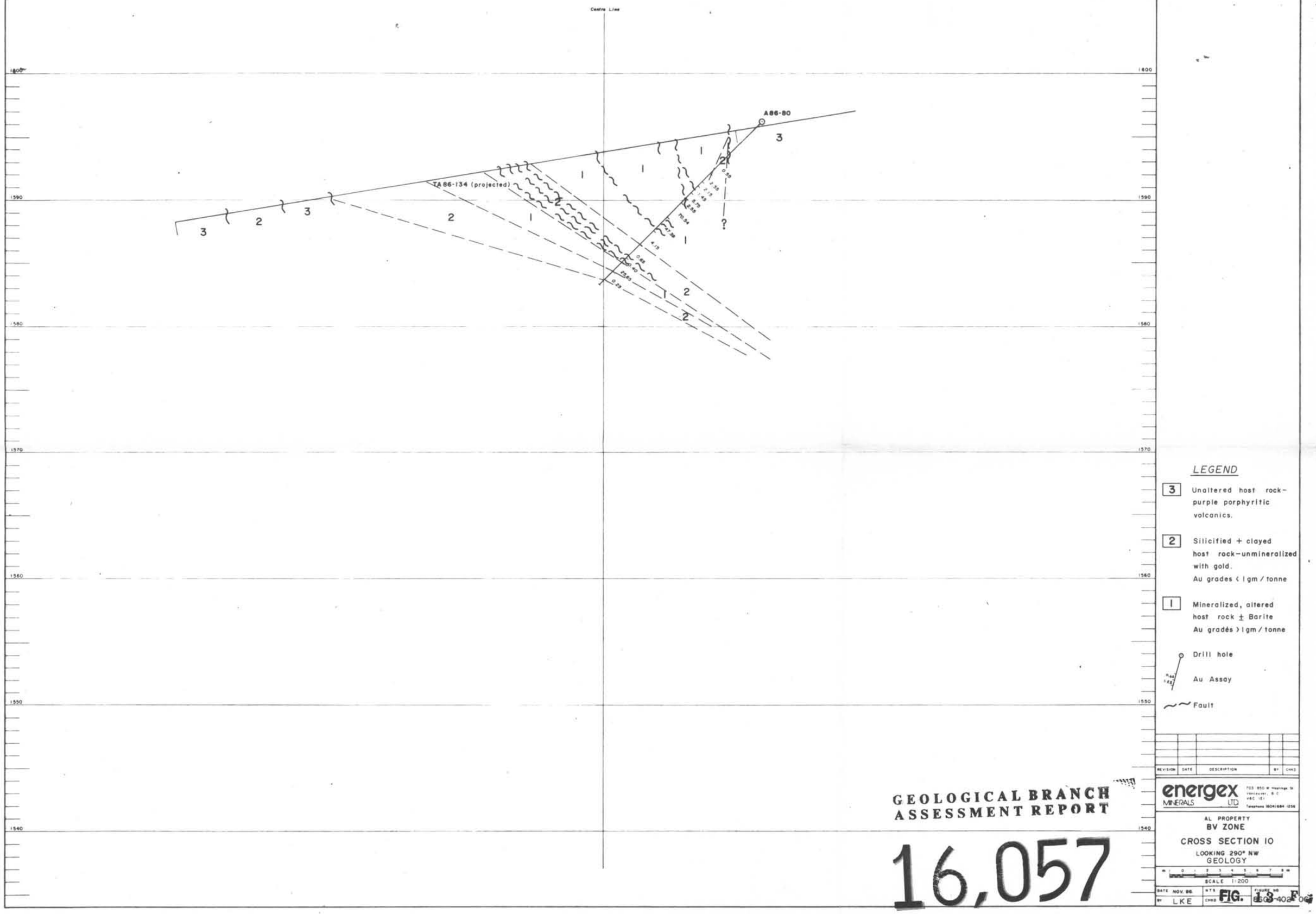
SCALE 1:200

DATE Nov 1986 | NTS | FIGURE NO FIG. 13-40-E
BY LKE | CHKD

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

REVISED



LEGEND

3 Unaltered host rock – purple porphyritic volcanics.

2 Silicified + clayed host rock – unmineralized with gold. Au grades < 1 gm / tonne

1 Mineralized, altered host rock ± Barite Au grades > 1 gm / tonne

Drill hole

Au Assay

Fault

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V6C 1E1
Telephone (604) 684-1256

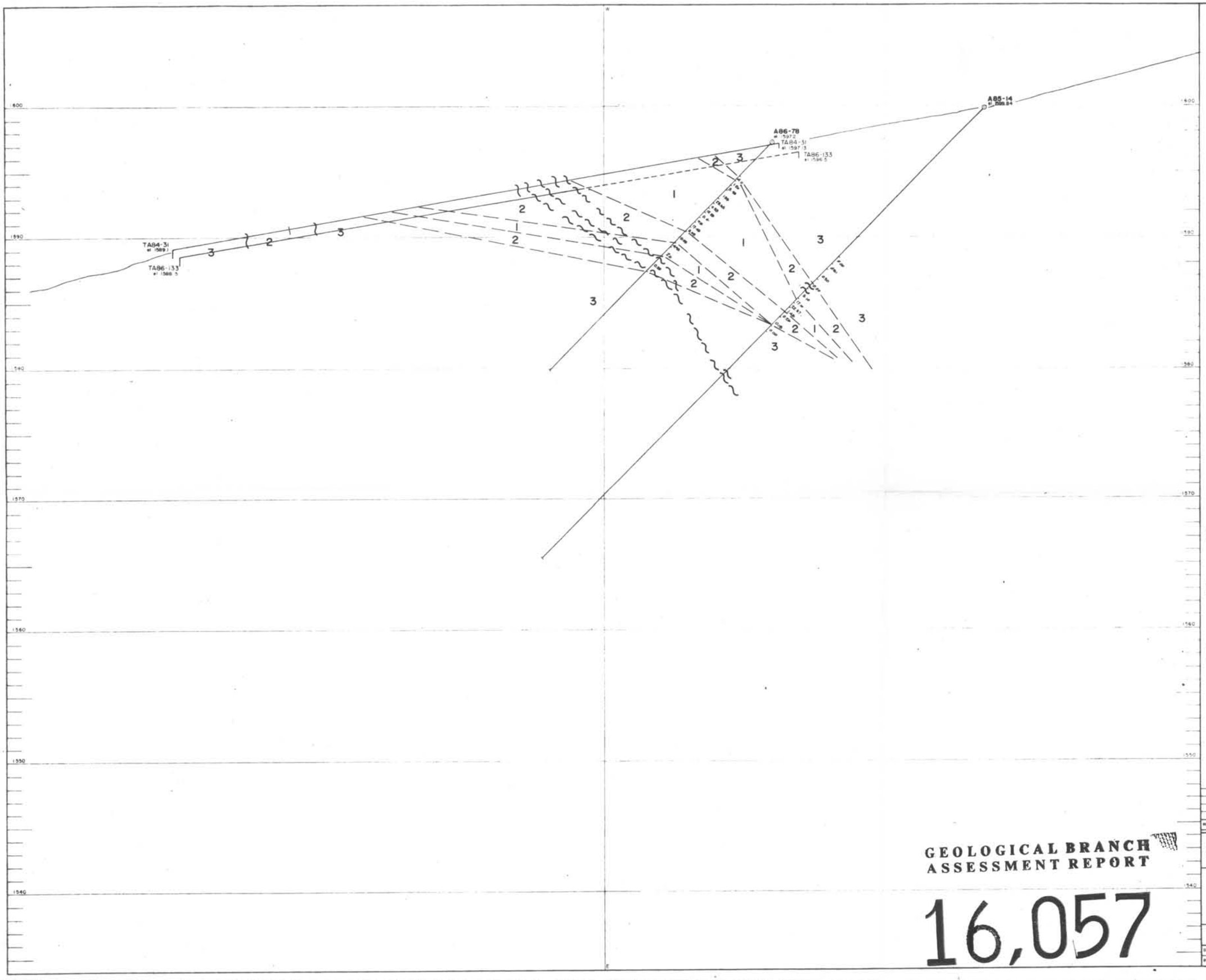
AL PROPERTY
BV ZONE
CROSS SECTION 10
LOOKING 290° NW
GEOLOGY

SCALE 1:200

DATE NOV. 86 | BY LKE | CHKD | FIG. 13 | FIGURE NO. 86-402-06

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057



LEGEND

3 Unaltered host rock – purple porphyritic volcanics.

2 Silicified + clayed host rock – unmineralized with gold. Au grades < 1 gm / tonne

1 Mineralized, altered host rock ± Barite Au grades > 1 gm / tonne

Drill hole

Au Assay

Fault

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD

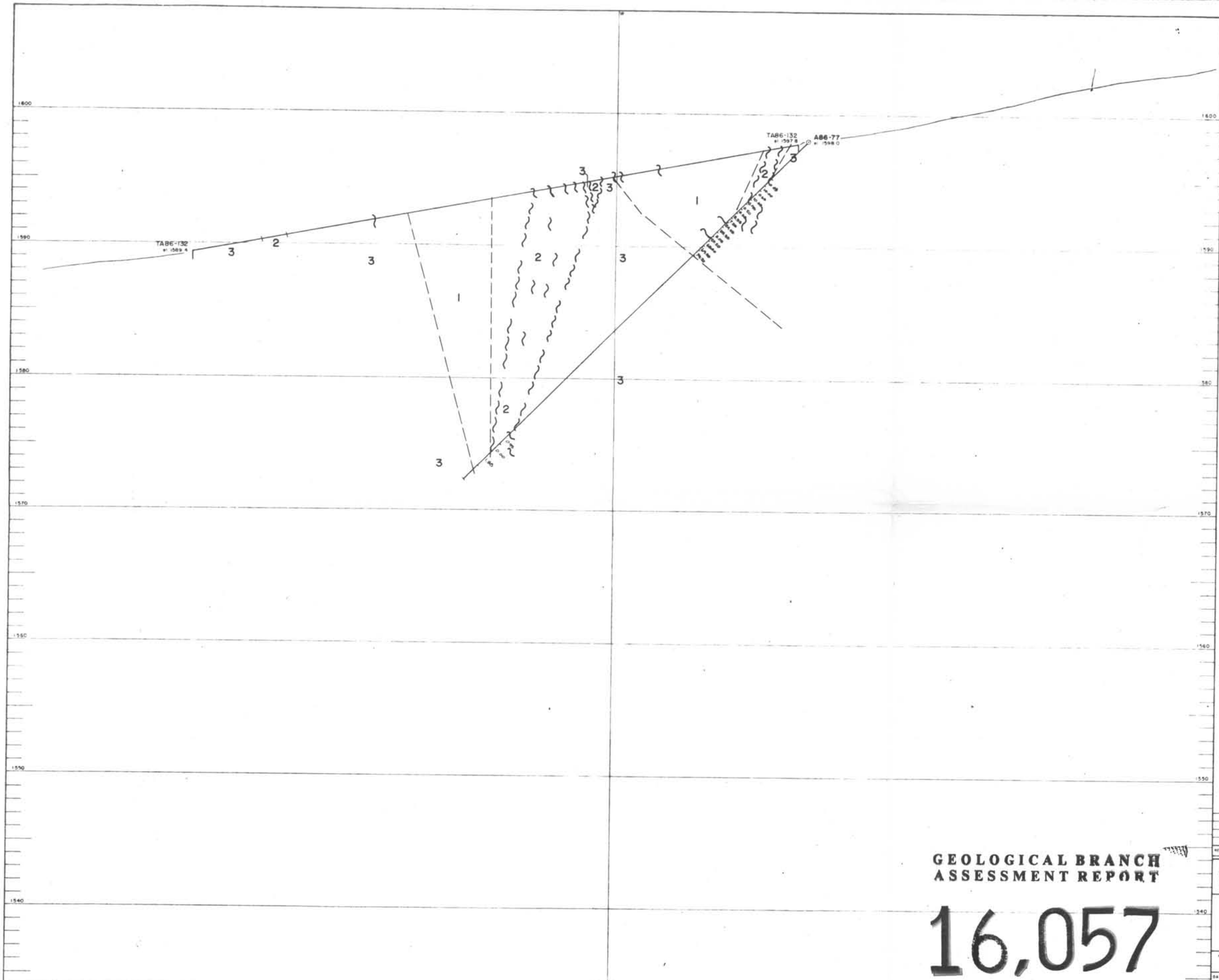
AL PROPERTY
BV ZONE
CROSS SECTION 11
GEOLOGY
LOOKING 290° NORTHWEST

SCALE 1:200

DATE Nov. 86 | BY LKE | CHKD | FIG. 88-402-16

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057



LEGEND

3 Unaltered host rock – purple porphyritic volcanics.

2 Silicified + clayed host rock – unmineralized with gold. Au grades < 1 gm / tonne

1 Mineralized, altered host rock ± Barite Au grades > 1 gm / tonne

Drill hole

Au Assay

Fault

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD

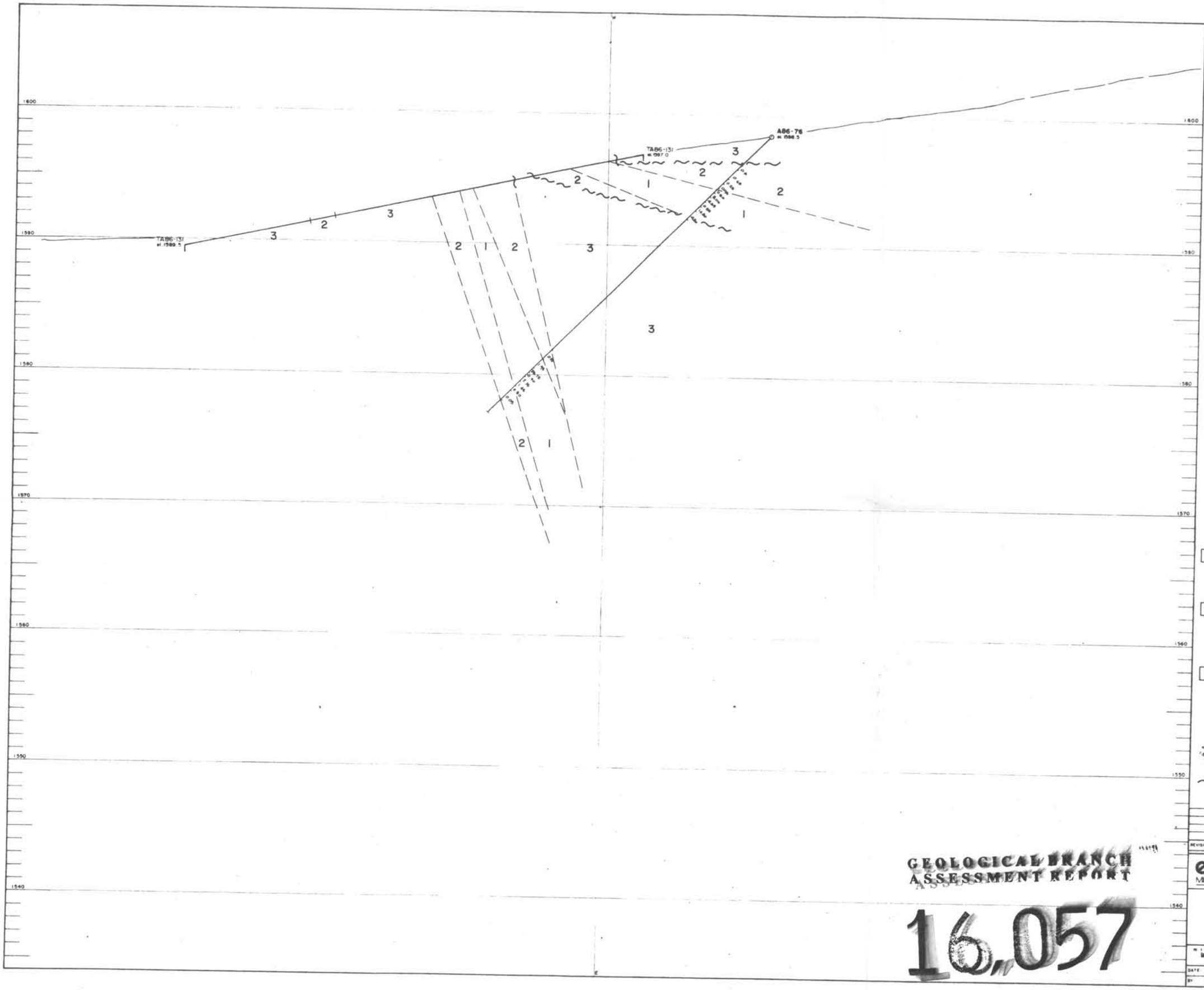
AL PROPERTY
BV ZONE
CROSS SECTION 12
GEOLOGY
LOOKING 290° NORTHWEST

SCALE 1:200

DATE Nov. 86 | N.T.S. | FIGURE NO.
BY LKE | CHKD | FIG. 1634-4-12-06

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057



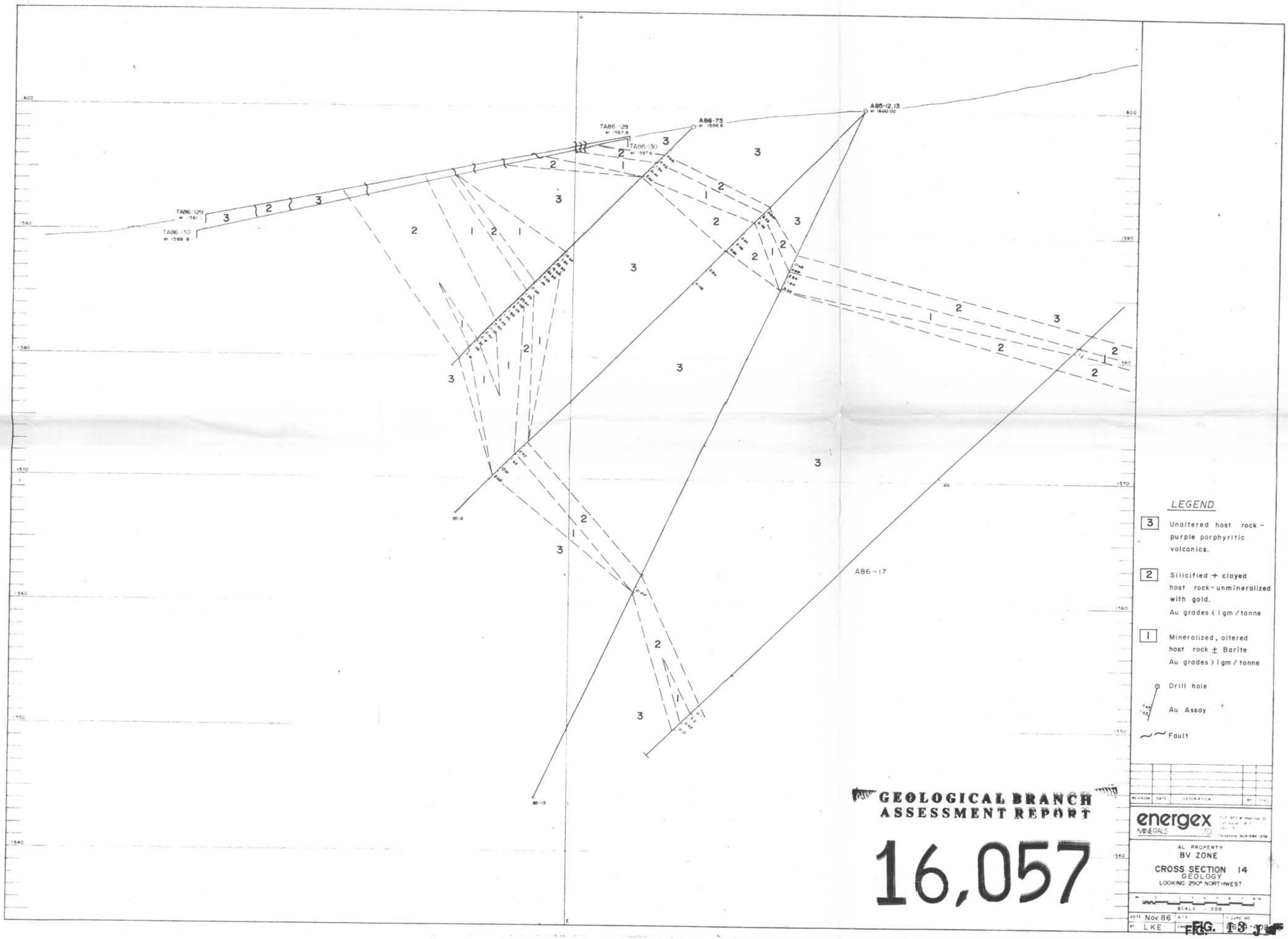
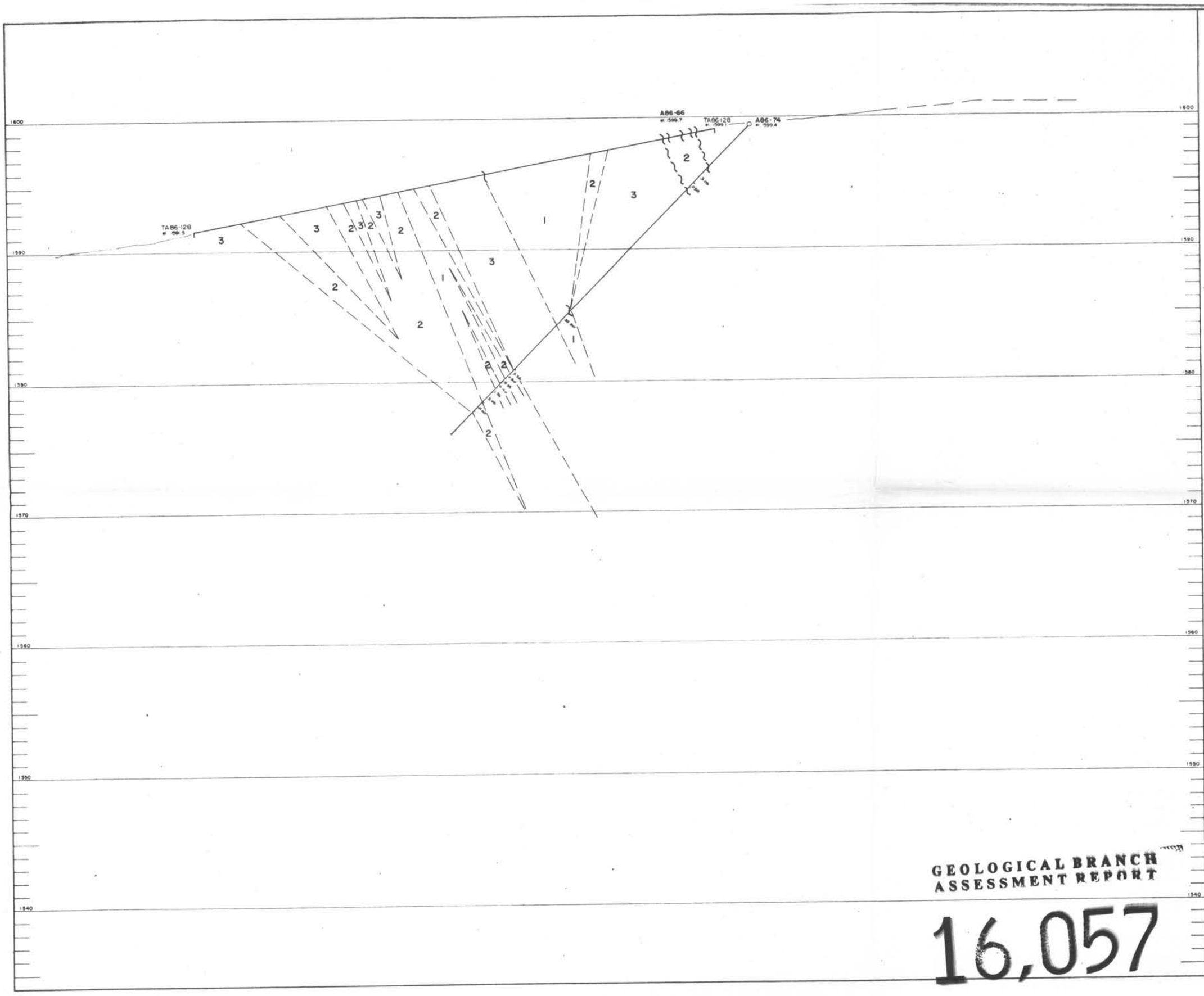


FIG. 13-3



LEGEND

3 Unaltered host rock – purple porphyritic volcanics.

2 Silicified + clayed host rock – unmineralized with gold. Au grades < 1 gm / tonne

1 Mineralized, altered host rock ± Barite Au grades > 1 gm / tonne

Drill hole

Au Assay

Fault

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703 - 850 W. Hastings St. Vancouver, B.C. V6C 1E1 Telephone (604) 684-1258

AL PROPERTY
BV ZONE
CROSS SECTION 15
GEOLOGY
LOOKING 290° NORTHWEST

SCALE 1:200

DATE: Nov. 86 | DWG. FIG. | FIGURE NO. 86-4-15
BY: LKE | CHKD.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

06

A84-11
el. 1603.3

A86-66 A86-73 A84-29
el. 1601.2 el. 1601.3

TA86-127
el. 1600.3

TA86-127
el. 1592.2

TA84-29
el. 1591.5

1596.3

1600
1590
1580
1570
1560
1550
1540

LEGEND

3 Unaltered host rock – purple porphyritic volcanics.

2 Silicified + clayed host rock – unmineralized with gold. Au grades < 1 gm / tonne

1 Mineralized, altered host rock ± Barite Au grades > 1 gm / tonne

Drill hole

Au Assay

Fault

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705 850 W Hastings St
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V6E 1E1
Telephone (604)684 1256

AL PROPERTY
BV ZONE
CROSS SECTION 16
GEOLOGY
LOOKING 290° NORTHWEST

SCALE 1:200

DATE Nov. 86 | BY LKE | CHKD | FIG. 13

8603-402-06

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

REVISED

TA86-126
el: 1592.8
TA86-127
el: 1592.2
TA86-126
el: 1601.8
A86-73
el: 1601.2
TA86-127
el: 1600.3
1600
1590
1580
1570
1560
1550
1540

LEGEND

3 Unaltered host rock - purple porphyritic volcanics.

2 Silicified + clayed host rock - unmineralized with gold. Au grades < 1 gm / tonne

1 Mineralized, altered host rock ± Barite Au grades > 1 gm / tonne

Drill hole

Au Assay

Fault

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energex MINERALS LTD
703 - 800 W Hastings St
Vancouver, B.C.
V6C 1E1
Telephone (604) 684-1758

AL PROPERTY
BV ZONE

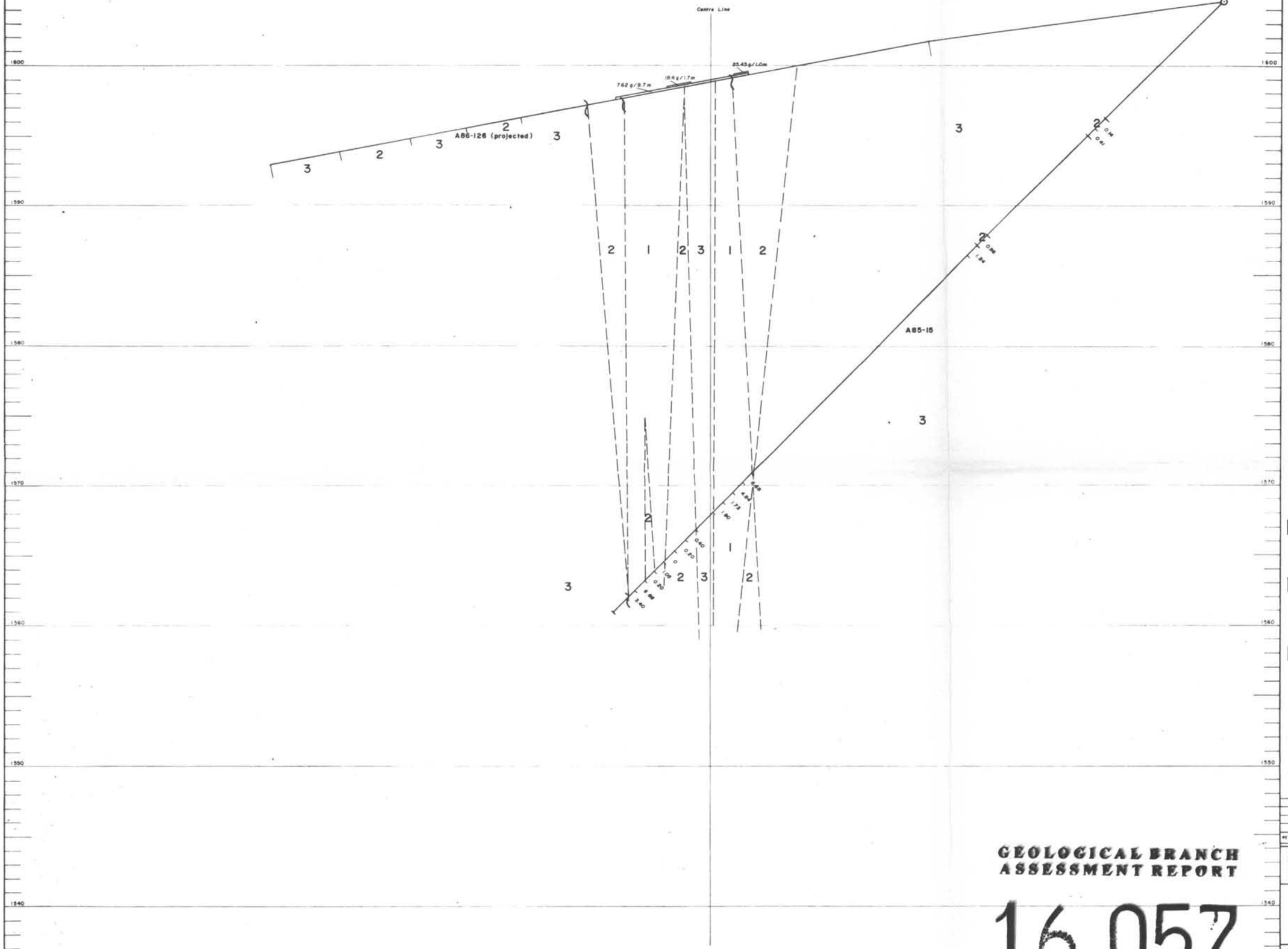
CROSS SECTION 17 A
GEOLOGY
LOOKING 290° NORTHWEST

SCALE 1:200

DATE Nov. 86 | NTS | FIGURE NO
BY LKE | CHKD | FIG. 15

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057



LEGEND

- 3 — Unaltered host rock – purple porphyritic volcanics.
- 2 — Silicified + clayed host rock – unmineralized with gold. Au grades < 1 gm / tonne
- 1 — Mineralized, altered host rock ± Barite Au grades > 1 gm / tonne
- Drill hole
- 0.45 / 4.23 — Au Assay
- ~~ Fault

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD
705 - 800 W. Hastings St.
Vancouver, B.C.
V6C 1E1
Telephone (604) 684-1258

AL PROPERTY
BV ZONE

SECTION 17 B
GEOLOGY
LOOKING 290° NW

m 1 0 1 2 3 4 5 6 7 8 m
SCALE 1:200

DATE NOV. 86	N.T.S.	FIGURE NO.
BY LKE	CHKD	FIG. 18

W

E

1600

1590

1580

1570

1560

1550

1540

TA86-125
at 1596.3

TA86-125
at 1600.9

A86-83
at 1601.8

3 2 3 2 3 2 3 2 3 1 2 3 2 3 1 3 2

LEGEND

3 Unaltered host rock - purple porphyritic volcanics.

2 Silicified + clayed host rock - unmineralized with gold.
Au grades < 1 gm / tonne

1 Mineralized, altered host rock ± Barite
Au grades > 1 gm / tonne

Drill hole

Au Assay

Fault

REVISION	DATE	DESCRIPTION	BY	CHKD

energex MINERALS LTD

AL PROPERTY
BV ZONE

CROSS SECTION 18
GEOLOGY
LOOKING 290° NORTHWEST

SCALE 1:200

DATE Nov. 86 | DWG FIG. | FIGURE NO. 18-4

BY LKE | CHKD

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

17 800 E
17 850 E
17 900 E
17 950 E
18 000 E
18 050 E
18 100 E
18 150 E

30 250 N
30 200 N
30 150 N
30 100 N
30 050 N
30 000 N

N

065°
035°

TA86-23
TA86-21
TA86-29
TA86-20
TA84-42
TA84-33
TA86-02
TA86-13
TA86-12
TA86-01
TA84-14
A86-12
A85-34
TA84-JOE
A85-08
A85-07
5-08
A84-08
TA86-03
TA84-13
TA86-19
TA84-16
A85-11
TA86-11
TA84-25
TA84-34
5-11
TA86-04
A85-09
A86-11
5-07
6-12
4-08
TA84-32
TA86-08
TA84-17
TA86-05
TA84-23
TA84-21
TA84-21 Extension
TA86-18
A86-09
A86-10
TA86-26
A85-05
A86-08
TA84-24
A84-09
TA86-03
A85-04
TA84-15
5-06
5-03
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A86-51
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A86-65
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A86-06
TA84-20
TA86-07
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6-10
6-43
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6-63
5-31
6-01
6-04
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A85-06
6-02
A85-03
A86-63
6-03
5-32
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A86-60
6-61
A86-03
6-47
A85-31
6-44,45
5-10
A84-19
A85-32
A86-06
6-45
4-10
035°
TA86-09
TA86-14
TA86-10
TA86-15
5-33
4-14
5-35
6-07
TA86-16
TA86-35
065°
TA86-33
TA86-39
A85-33

EACH SHEET 1 : 5000

19,250 E	20,000E	20,500E	21,000E	21,500E	22,000E	
37	38	39	40	41	42	36,500N
36	35	34	33	32	31	34,000N
25	26	27	28	29	30	31,500N
24	23	22	21	20	19	29,000N
13	14	15	16	17	18	26,500N
12	11	10	9	8	7	24,000N
1	2	3	4	5	6	21,500N
						19,000N

EACH SHEET 1 : 1000

31,000E	31,700E	32,400E	33,100E	33,800E	34,500E	
U	V	W	X	Y		21,300 N
T	S	R	Q	P		21,000 N
K	L	M	N	O		20,300 N
J	I	H	G	F		20,000 N
A	B	C	D	E		19,300N
						19,000N

EACH SHEET 1 : 500

33,800E	34,150E	34,500E	
IV	III		19,300N
I	II		19,250N
			19,000N

SHEET INDEX

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

SHEET NO: 26-L-11

energex MINERALS LTD.

Al Property
THESIS III ZONE
Trenches & Diamond Drill Holes

5 0 5 10 15 20 25m
SCALE 1:300

Date JAN., 1996
Revised:
NTS. 94 E/6W
FIG. 14

TA84-16 TA86-03 TA84-13

APPROXIMATE LIMIT OF 1986 STRIPPING

TA84-23 TA84-22 TA86-03 TA84-15 TA84-20 TA84-14

PIT

TOP OF OUTCROP SCARP EDGE

LIMIT OF 1986 STRIPPING

LIMIT OF 1986 STRIPPING

TA84-13

LEGEND

PRINCIPAL ALTERATION TYPES

A3	Fresh or weathered andesite-dacite, also very weak argillic, sericitic or propylitic alteration
A2	Intense pervasive argillization
A5	Intense silicification with no visible sulfides
A7	Intense silicification with visible sulfides

TRANSITIONAL ALTERATION TYPES

A3/A2	Weak pervasive argillization
A2/A3	Moderate pervasive argillization
A2/A5	Argillization with lesser silicification
A5/A2	Silicification with lesser argillization
	No visible sulfides
A2/A7	Argillization with lesser silicification
A7/A2	Silicification with lesser argillization
	Visible sulfides

LEGEND

1986 Channel with reference number and Au assay value (g/t)

TA84-22 Trench with reference number and Au assay value (g/t)

Geological contact

Fault

065°

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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energex MINERALS LTD

AL PROPERTY
THESIS III MAIN ZONE
1986 CHANNELS

SURFACE GEOLOGY

SCALE 1:200

DATE Dec 1986 NTS 92 E/8W FIGURE

REVISED DRAWN FIG. 15

A86-11
A86-09
A86-10
A86-08
A85-05
A84-09
A85-04
A86-04, 05
A86-52
A86-51
A84-10
A86-64
A86-65
A86-49, 50
A85-30
A84-14
A86-06
A85-10
A85-06
A85-03
A86-63
A86-47, 48
A86-07
A86-01, 02
A86-61, 62
A85-35
A86-44, 45
A86-46
A86-60
A85-31
A86-03
A85-32
A86-43

LEGEND

9.5 Diamond Drill Hole with gold assay in grams / tonne.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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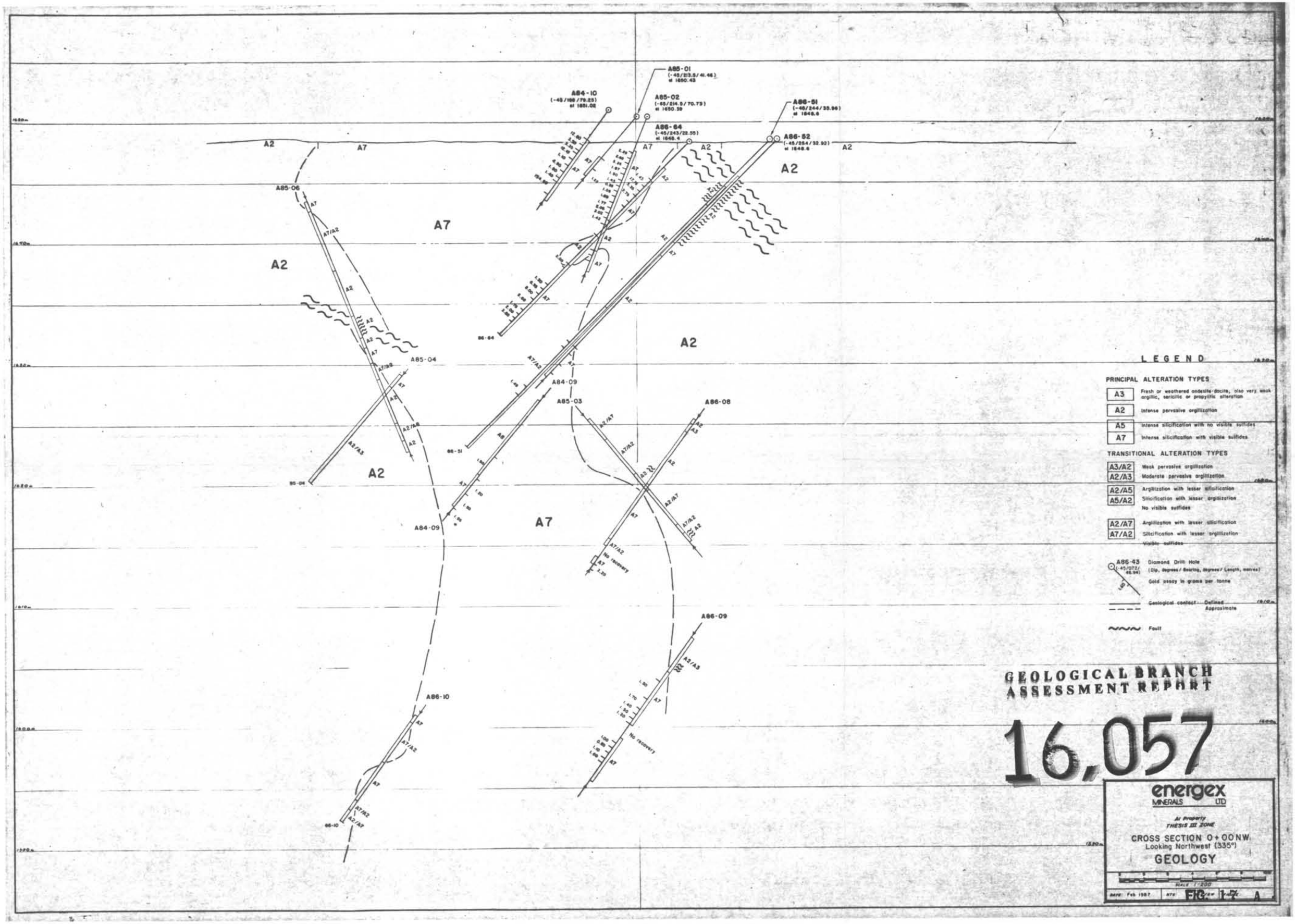
energex MINERALS LTD

AL PROPERTY
THESIS III ZONE

1986 DIAMOND DRILL HOLE ASSAY VALUES

SCALE 1:200

DATE SEPT 86 | NTS | FIG. 16
REVISED | BY



LEGEND

PRINCIPAL ALTERATION TYPES

A3	Fresh or weathered andesite-dacite, also very weak argillic, sericitic or propylitic alteration
A2	Intense pervasive argillization
A5	Intense silicification with no visible sulfides
A7	Intense silicification with visible sulfides

TRANSITIONAL ALTERATION TYPES

A3/A2	Weak pervasive argillization
A2/A3	Moderate pervasive argillization
A2/A5	Argillization with lesser silicification
A5/A2	Silicification with lesser argillization No visible sulfides
A2/A7	Argillization with lesser silicification
A7/A2	Silicification with lesser argillization Visible sulfides

A86-43 (-45/072/46.94) — Diamond Drill Hole (Dip, degrees / Bearing, degrees / Length, metres)
Gold assay in grams per tonne

Geological contact — Defined / Approximate

Fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

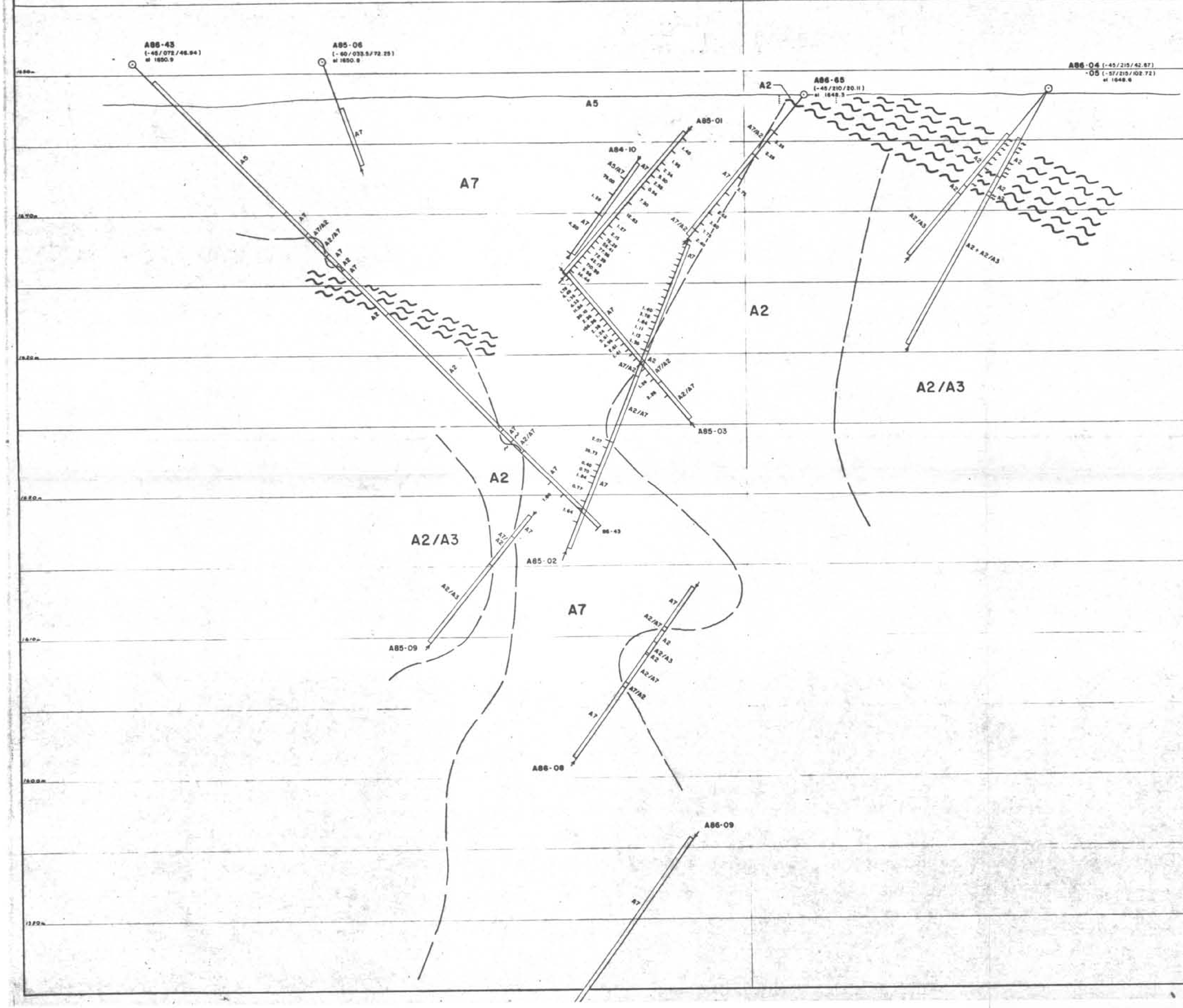
energex MINERALS LTD

Al Property
THESIS III ZONE

CROSS SECTION 0+00NW
Looking Northwest (335°)
GEOLOGY

SCALE 1:200

DATE: Feb 1987 | FIG. 1-7c A



LEGEND

PRINCIPAL ALTERATION TYPES

A3	Fresh or weathered andesite-dacite, also very weak argillic, sericitic or propylitic alteration
A2	Intense pervasive argillization
A5	Intense silicification with no visible sulfides
A7	Intense silicification with visible sulfides

TRANSITIONAL ALTERATION TYPES

A3/A2	Weak pervasive argillization
A2/A3	Moderate pervasive argillization
A2/A5	Argillization with lesser silicification
A5/A2	Silicification with lesser argillization No visible sulfides
A2/A7	Argillization with lesser silicification
A7/A2	Silicification with lesser argillization Visible sulfides

A86-43 (-45/072/46.94) Diamond Drill Hole (Dip, degrees / Bearing, degrees / Length, metres)

Gold assay in grams per tonne

Geological contact - Defined / Approximate

Fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

energex MINERALS LTD

AI Property
THESIS III ZONE

CROSS SECTION 5+00 SE
Looking Northwest (335°)

GEOLOGY

SCALE 1:200

DATE: Jan 1987 | NTS | FIG. 1-7 B

A85-03
(-46/034.6/56.53)
el 1649.4

A86-49 (-45/230/42.08)
-50 (-45/242/35.05)
el 1648.4

A85-30
(-45/215/61.89)
el 1648.0

A85-01

A84-10

A86-65

A86-50

A86-05

A86-04

A85-02

A85-09

A86-08

A86-09

A5

A2

A7

A2/A3

A2/A7

A7/A2

A2/A5

A5/A2

A2+ A2/A3

A7/A5

LEGEND

PRINCIPAL ALTERATION TYPES

A3	Fresh or weathered andesite-dacite, also very weak argillic, sericitic or propylitic alteration
A2	Intense pervasive argillization
A5	Intense silicification with no visible sulfides
A7	Intense silicification with visible sulfides

TRANSITIONAL ALTERATION TYPES

A3/A2	Weak pervasive argillization
A2/A3	Moderate pervasive argillization
A2/A5	Argillization with lesser silicification
A5/A2	Silicification with lesser argillization
	No visible sulfides
A2/A7	Argillization with lesser silicification
A7/A2	Silicification with lesser argillization
	Visible sulfides

A86-43 (-45/072/56.94) — Diamond Drill Hole (Dip, degrees / Bearing, degrees / Length, metres)

1.67 — Gold assay in grams per tonne

Geological contact - Defined / Approximate

Fault

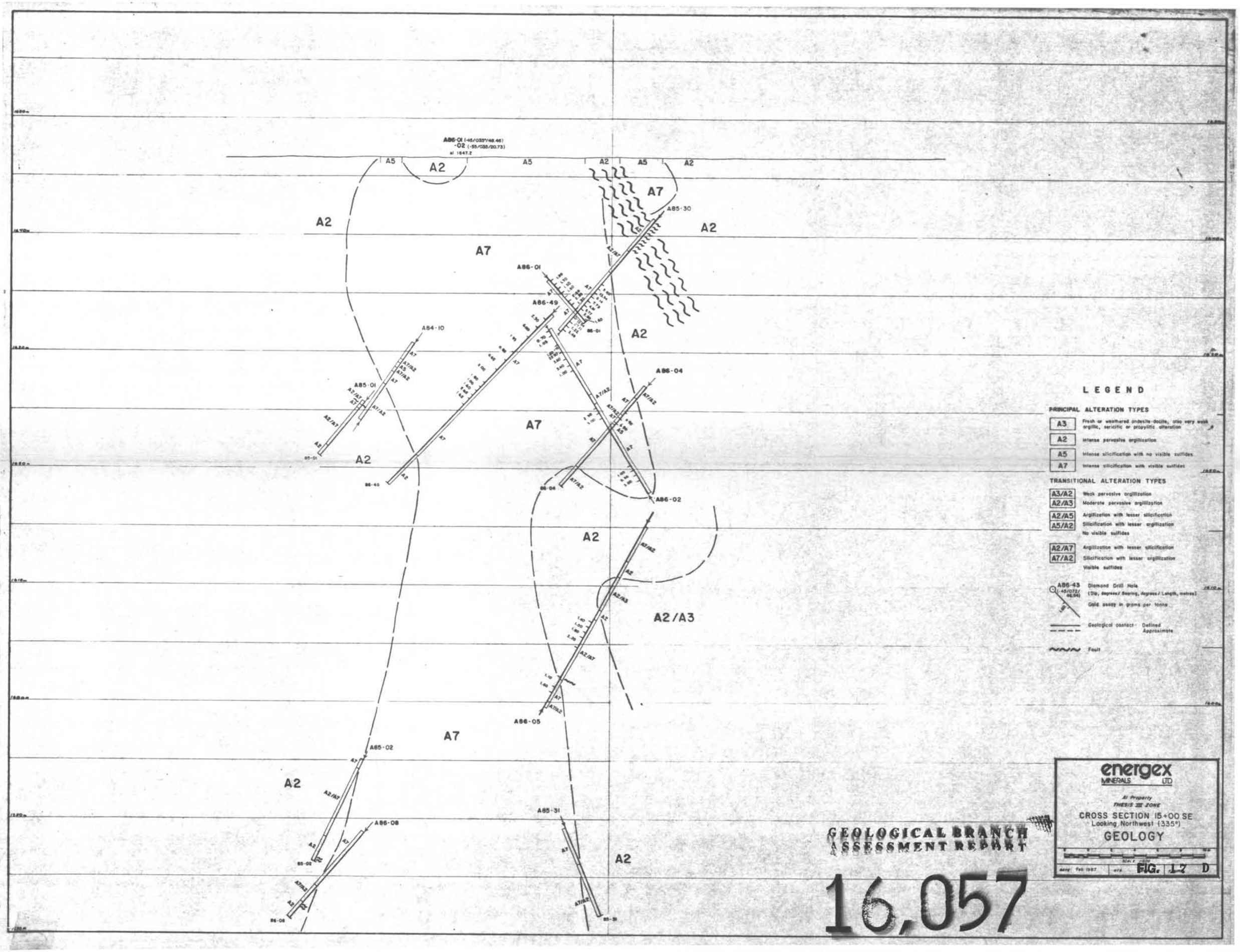
energex MINERALS LTD

Al Property
THESIS III ZONE

CROSS SECTION 10+00 SE
Looking Northwest (335°)
GEOLOGY

SCALE 1:250

DATE: | FIG. 17 C



LEGEND

PRINCIPAL ALTERATION TYPES

A3	Fresh or weathered andesite-dacite, also very weak argillic, sericitic or propylitic alteration
A2	Intense pervasive argillization
A5	Intense silicification with no visible sulfides
A7	Intense silicification with visible sulfides

TRANSITIONAL ALTERATION TYPES

A3/A2	Weak pervasive argillization
A2/A3	Moderate pervasive argillization
A2/A5	Argillization with lesser silicification
A5/A2	Silicification with lesser argillization No visible sulfides
A2/A7	Argillization with lesser silicification
A7/A2	Silicification with lesser argillization Visible sulfides

A86-43 (-45/072/48.56) — Diamond Drill Hole (Dip, degrees/ Bearing, degrees/ Length, metres)
1.90 — Gold assay in grams per tonne

Geological contact - Defined / Approximate

Fault

energex MINERALS LTD

Al Property
THESIS III ZONE

CROSS SECTION 15+00 SE
Looking Northwest (335°)
GEOLOGY

SCALE 1:250

date Feb 1987 — FIG. 17 D

A86-01 (-45/035/20.73)
-02 (-55/035/46.46)
at 1647.2

A86-03
(-45/313/14.02)
at 1644.8

A86-06
(-50/215/79.25)
at 1646.6

A2 A5 A2 A2 A5 A2/A3

A2 A7 A2 A7 A2

A86-01 A86-03 A86-06

A85-30

A86-62

A84-10

A2 A7 A2

A2 A7 A2

A86-05

A85-31

LEGEND

PRINCIPAL ALTERATION TYPES

A3	Fresh or weathered andesite-dacite; also very weak argillic, sericitic or propylitic alteration
A2	Intense pervasive argillization
A5	Intense silicification with no visible sulfides
A7	Intense silicification with visible sulfides

TRANSITIONAL ALTERATION TYPES

A3/A2	Weak pervasive argillization
A2/A3	Moderate pervasive argillization
A2/A5	Argillization with lesser silicification
A5/A2	Silicification with lesser argillization No visible sulfides
A2/A7	Argillization with lesser silicification
A7/A2	Silicification with lesser argillization Visible sulfides

A86-43 (-45/072/46.94) — Diamond Drill Hole (Dip, degrees / Bearing, degrees / Length, metres)
Gold assay in grams per tonne

Geological contact — Defined / Approximate

Fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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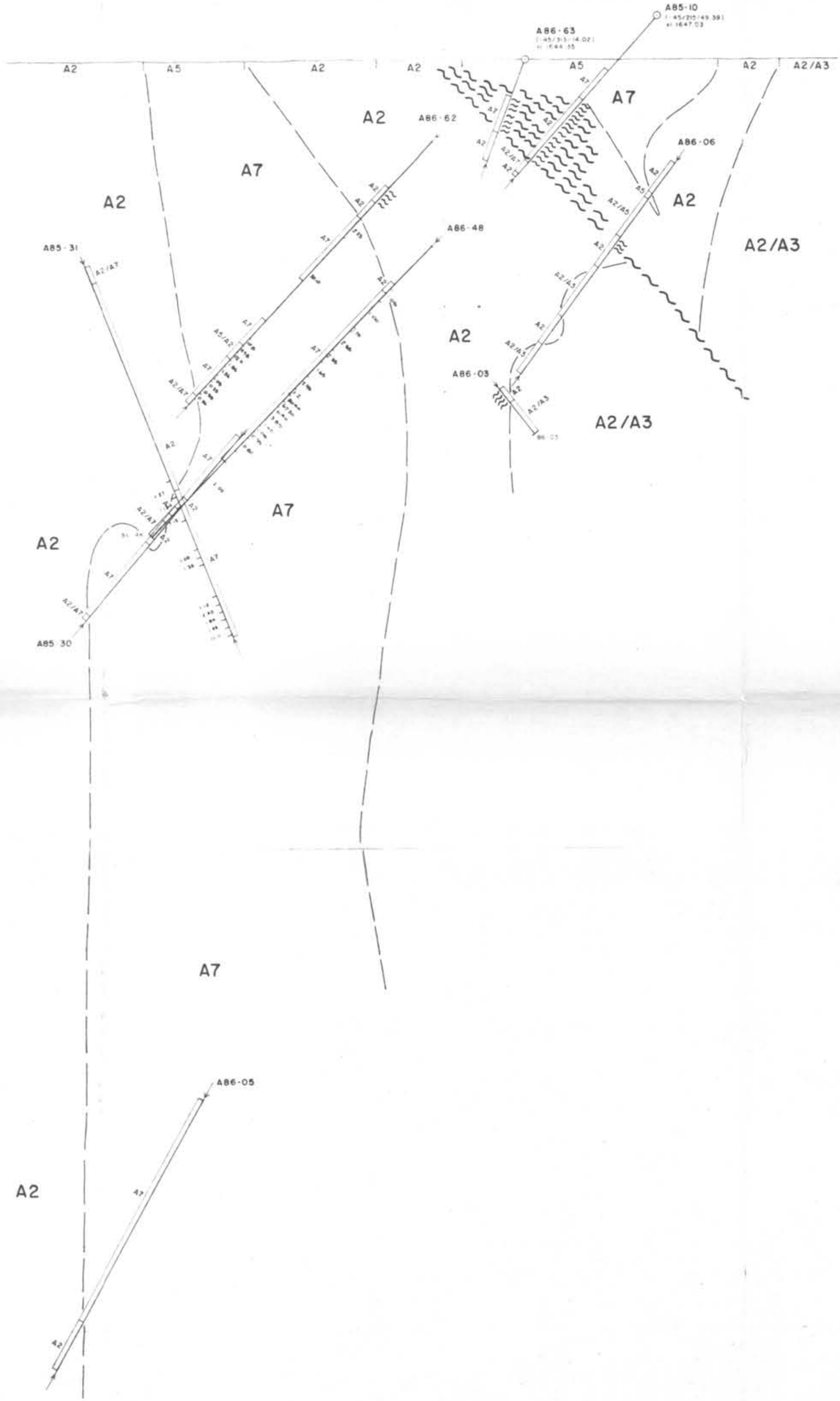
energex MINERALS LTD

Al Property
THESIS III ZONE
CROSS SECTION 20+00 SE
Looking Northwest (335°)
GEOLOGY

SCALE 1:200

DATE: Jan 1987 NTS FIG. 1-7 E



LEGEND

PRINCIPAL ALTERATION TYPES

A3	Fresh or weathered andesite-dacite, also very weak argillic, sericitic or propylitic alteration
A2	Intense pervasive argillization
A5	Intense silicification with no visible sulfides
A7	Intense silicification with visible sulfides

TRANSITIONAL ALTERATION TYPES

A3/A2	Weak pervasive argillization
A2/A3	Moderate pervasive argillization
A2/A5	Argillization with lesser silicification
A5/A2	Silicification with lesser argillization
	No visible sulfides
A2/A7	Argillization with lesser silicification
A7/A2	Silicification with lesser argillization
	Visible sulfides

A86-43 (-45/072/46.94) — Diamond Drill Hole (Dip, degrees / Bearing, degrees / Length, metres)

1.67 — Gold assay in grams per tonne

Geological contact — Defined / Approximate

Fault

energex MINERALS LTD

Al Property
THESIS III ZONE

CROSS SECTION 25+00 SE
Looking Northwest (335°)
GEOLOGY

SCALE 1:250
DATE FEB 1986 — FIG. No. 17

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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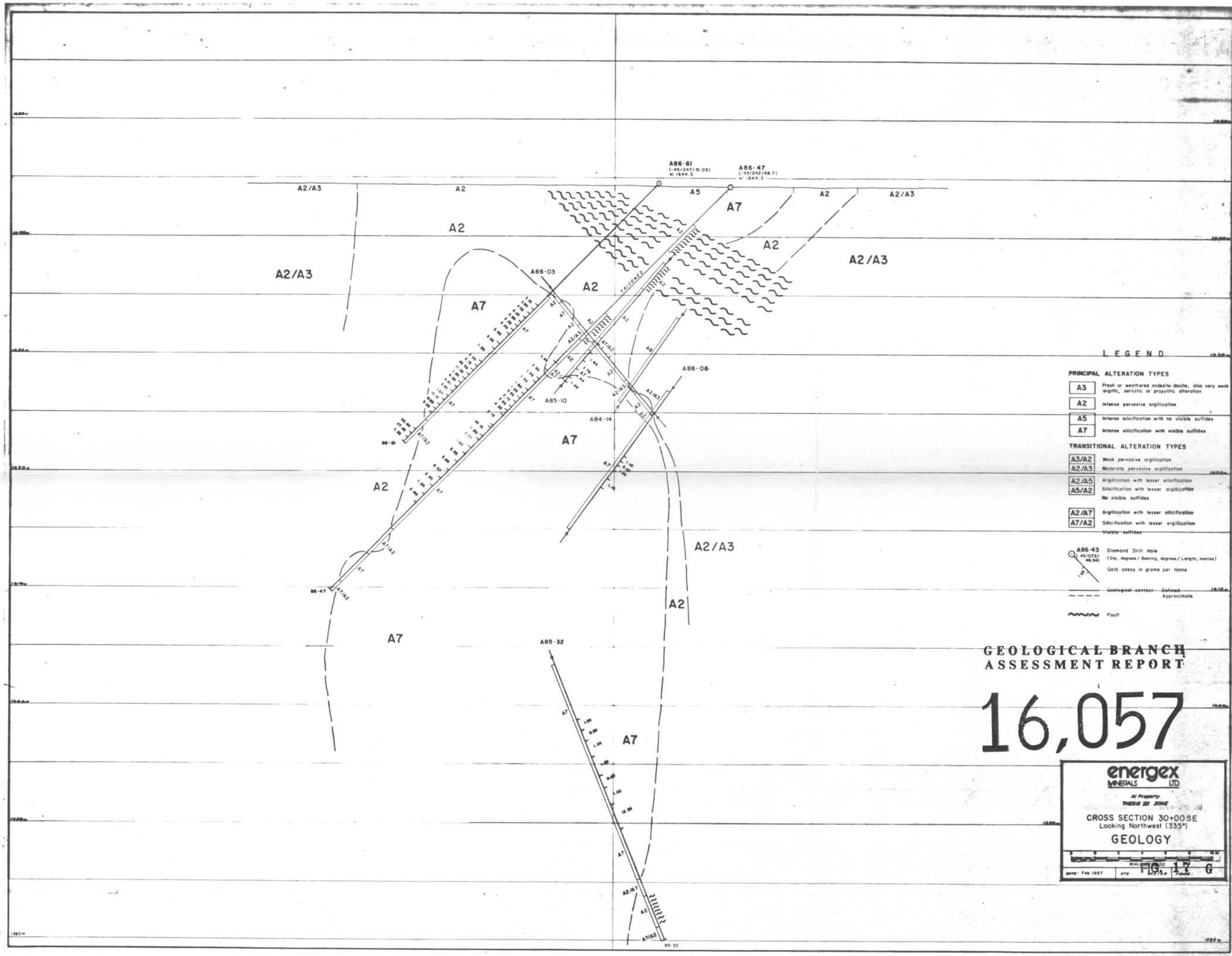

LEGEND

PRINCIPAL ALTERATION TYPES

A3	Fresh or weathered andesite-dacite; also very weak argillic, sericitic or propylitic alteration
A2	Intense pervasive argillization
A5	Intense silicification with no visible sulfides
A7	Intense silicification with visible sulfides

TRANSITIONAL ALTERATION TYPES

A3/A2	Weak pervasive argillization
A2/A3	Moderate pervasive argillization
A2/A5	Argillization with lesser silicification
A5/A2	Silicification with lesser argillization No visible sulfides
A2/A7	Argillization with lesser silicification
A7/A2	Silicification with lesser argillization Visible sulfides

A86-43 (-45/072/46.94) — Diamond Drill Hole (Dip, degrees / Bearing, degrees / Length, metres)

1.67 — Gold assay in grams per tonne

Geological contact: Defined / Approximate

Fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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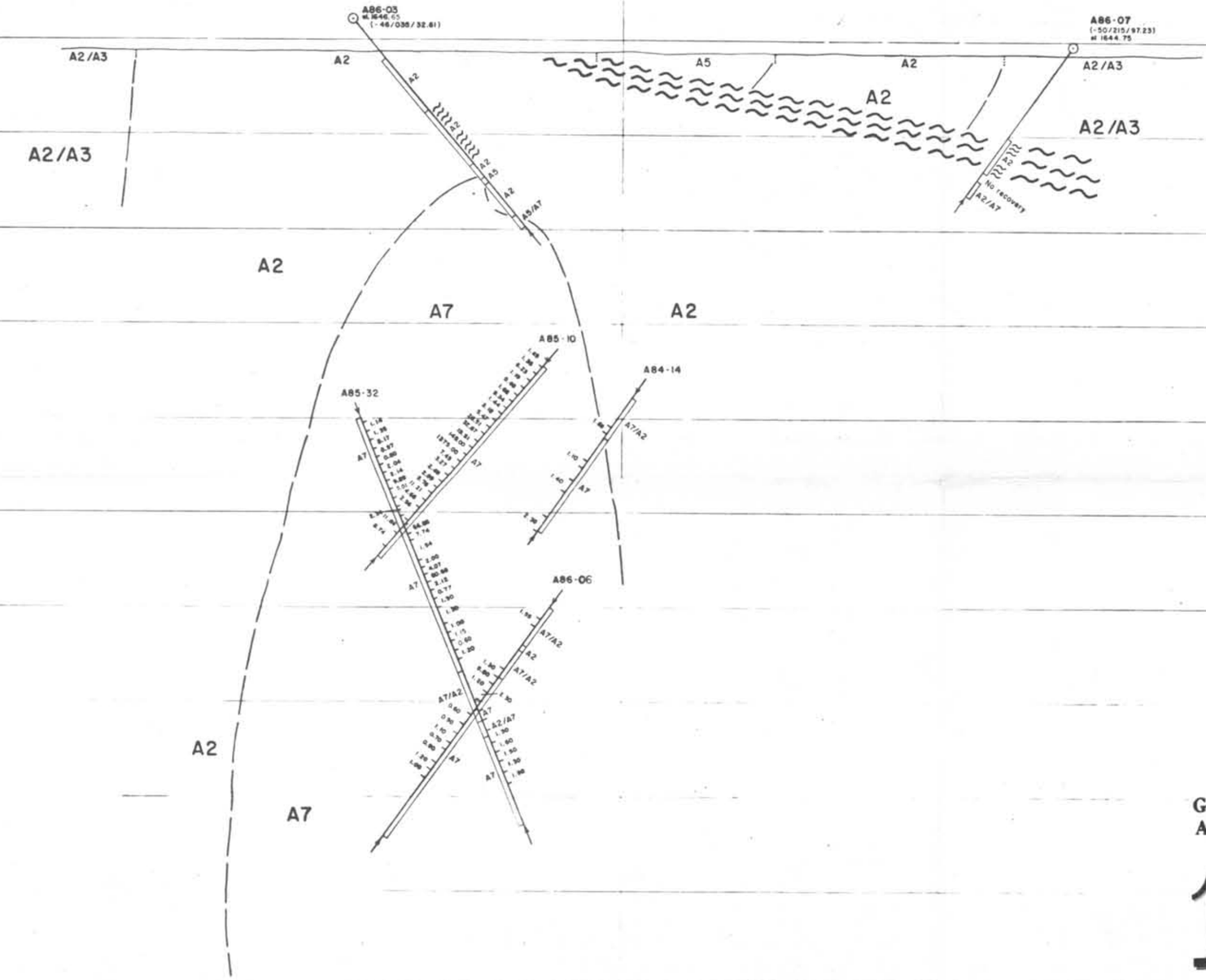
energex MINERALS LTD

Al Property
THESIS 331 ZONE

CROSS SECTION 30+00SE
Looking Northwest (335°)
GEOLOGY

scale: 1:250 | date: Feb 1987 | FIG. 17 G



LEGEND

PRINCIPAL ALTERATION TYPES

A3	Fresh or weathered andesite/dacite, also very weak argillic, sericitic or propylitic alteration
A2	Intense pervasive argillization
A5	Intense silicification with no visible sulfides
A7	Intense silicification with visible sulfides

TRANSITIONAL ALTERATION TYPES

A3/A2	Weak pervasive argillization
A2/A3	Moderate pervasive argillization
A2/A5	Argillization with lesser silicification
A5/A2	Silicification with lesser argillization No visible sulfides
A2/A7	Argillization with lesser silicification
A7/A2	Silicification with lesser argillization Visible sulfides

A86-43 (-45/072/46.94) — Diamond Drill Hole (Dip, degrees / Bearing, degrees / Length, metres)
Gold assay in grams per tonne

Geological contact: Defined / Approximate

Fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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energex MINERALS LTD

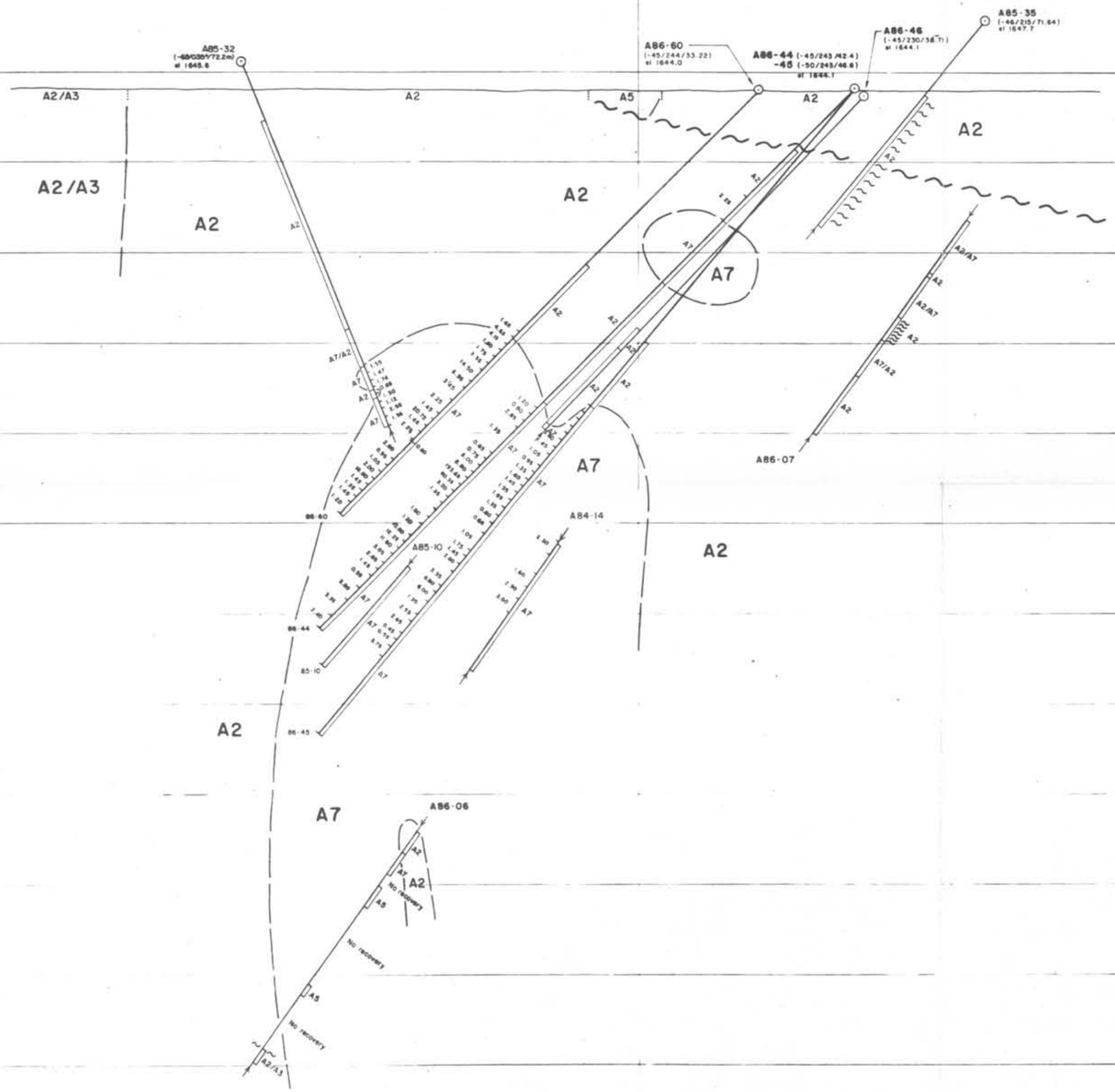
Al Property
THESIS III ZONE

CROSS SECTION 35+00 SE
Looking Northwest (335°)

GEOLOGY

SCALE 1:200

DATE: Feb. 1987 | FIG. 12 H



LEGEND

PRINCIPAL ALTERATION TYPES

A3	Fresh or weathered andesite-dacite, also very weak argillic, sericitic or propylitic alteration
A2	Intense pervasive argillization
A5	Intense silicification with no visible sulfides
A7	Intense silicification with visible sulfides

TRANSITIONAL ALTERATION TYPES

A3/A2	Weak pervasive argillization
A2/A3	Moderate pervasive argillization
A2/A5	Argillization with lesser silicification
A5/A2	Silicification with lesser argillization No visible sulfides
A2/A7	Argillization with lesser silicification
A7/A2	Silicification with lesser argillization Visible sulfides

A86-43 (-45/072/46.94) — Diamond Drill Hole (Dip, degrees / Bearing, degrees / Length, metres)
140 — Gold assay in grams per tonne

Geological contact — Defined / Approximate

Fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,057

energex MINERALS LTD

Al Property
THESIS III ZONE

CROSS SECTION 40+00 SE
Looking Northwest (335°)

GEOLOGY

SCALE 1:200

DATE: Feb 1987 | NTS | FIG. 17