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**REPORT ON A
SOIL GEOCHEMICAL SURVEY
OF THE STURDEE CLAIM**

**Toodoggone River Area, Omineca Mining Division
British Columbia**

FILMED

Latitude $57^{\circ} 28' 25''$ North
Longitude $127^{\circ} 15' 12''$ West
NTS 94E/6E

Owned by

ENERGEX MINERALS LTD.

Work by

ENERGEX MINERALS LTD.

Prepared by

GEORGE W.G. SIVERTZ

October, 1987

16,551

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

10/28/87

MINISTRY OF ENERGY, MINES
AND PETROLEUM RESOURCES
Rec'd
NOV 6 1987
SUBJECT _____
FILE _____
VANCOUVER, B.C.

**REPORT ON A SOIL GEOCHEMICAL SURVEY OF THE STURDEE CLAIM
Toodoggone River Area, Omineca Mining Division, British Columbia**

TABLE OF CONTENTS

	<u>PAGE</u>
1. INTRODUCTION	1
2. PROPERTY	1
3. LOCATION AND ACCESS	3
4. PHYSIOGRAPHY, VEGETATION AND CLIMATE	3
5. PREVIOUS WORK	6
6. REGIONAL GEOLOGY	6
7. GEOLOGY AND MINERALIZATION	8
8. GEOCHEMISTRY	8
9. CONCLUSIONS AND FOLLOW-UP RECOMMENDATIONS	9

APPENDICES

Appendix I	Statement of Expenditures
Appendix II	Analytical Procedures
Appendix III	Analysis Certificates
Appendix IV	Bibliography
Appendix V	Certificate of Writer

LIST OF FIGURES

	<u>PAGE</u>	
Figure 1	Property Location, British Columbia	2
Figure 2	Property Location, Toodoggone River Area	4
Figure 3	Claim Map	5
Figure 4	Regional Geology	7
Figure 5	Sturdee Claim Soil-Geochemical Plans (Scale 1:5000)	Pocket
Figure 5-A	Gold, Silver	Pocket
Figure 5-B	Copper, Lead, Zinc	Pocket

1. INTRODUCTION

Energex Minerals Ltd. conducted a limited soil geochemical survey on the Sturdee claim in June, July and August, 1987 as part of a major exploration program on the Toodoggone properties.

The claim is located on Moosehorn Creek, northwest of Kadah Lake, in the Toodoggone River area of north-central British Columbia.

Outcrop is scarce in the central section of the claim, but is relatively plentiful in the southeastern sections, above Kadah Lake and along Moosehorn Creek upstream from the Antoine Louis confluence.

The outcrops in the Moosehorn Valley and immediately to the west comprise red-grey to purple ash flows, showing layering in local exposures. This unit is considered to belong to Unit 1 (Adoogatcho Creek Formation) of the Toodoggone Volcanics (Diakow, Pantaleyev and Schroeter, 1985).

Rocks exposed in the southeastern section, north of Kadah Lake, are grey to brown-grey, dense porphyries assigned by Diakow et al to Unit 6 (Tuff Peak Formation). No mineralization was noted in the course of the soil survey.

A total of 730 soil samples was collected at 50-meter intervals along lines oriented east-west, spaced at 100 meters along a north-south picketed baseline. Control was by chain and compass.

2. PROPERTY

The Surprise claim is part of the JD property (Sturdee Group) and is located in the Omineca Mining Division. Claim data are as follows:

<u>Claim Name</u>	<u>Record Number</u>	<u>Record Date</u>	<u>No. of Units</u>	<u>Expiry Date</u>
Sturdee	4276	08 Sep '81	18	08 Sep '87

The location of the legal claim post was verified by legal survey conducted by McElhanney Associates in September 1982. The author visited the LCP in June, 1987, and used the survey pin as the point of origin for the grid baseline, which follows the west claim boundary.



energex
MINERALS LTD.

PROPERTY LOCATION MAP

100 0 100 200 300 400 Km.
100 0 100 200 Mi.

FEB, 1986 FIGURE 1

3. LOCATION AND ACCESS

The claim lies in the valley of Moosehorn Creek, mainly east of the creek, and covers part of the locally-termed 'Kadah Bench', a dry, well-drained, northwest-trending feature west of Kadah Lake.

Access is via helicopter from Sturdee Airstrip, a distance of 25 kilometers. Sturdee Airstrip is currently served by fixed wing aircraft from Smithers, British Columbia, 300 kilometers to the south. The Omineca Mine Access Road extension, owned by Cheni Gold Mines Ltd., passes within eight kilometers of the Sturdee claim, making truck access possible, if inconvenient.

4. PHYSIOGRAPHY, VEGETATION, AND CLIMATE

The Sturdee claim straddles the Moosehorn Valley near Antoine Louis Creek. The main valley is a modified glaciated 'U' in section, and Moosehorn Creek lies in a postglacial trough in the valley center. The claim covers a dry bench in the southeast, and a forested knob on the northwest.

Vegetation is the typical varied northern selection, ranging from scrub birch and willow in the central Moosehorn Valley upward to spruce and pine on the Kadah Bench. Heavy mats of 'caribou moss' lichen occur on poorly drained forested slopes below the Bench.

The climate of the Toodoggone region features moderate snowpack and cold temperatures in winter, moderating to typically disturbed 'mountain weather' in summer, with periods of heat, frequent showers, and short periods of sustained rainfall alternating.

5. PREVIOUS WORK

The JD property, of which the Sturdee claim is a part, was intensively explored in 1980-84 by Kidd Creek Mines Ltd. (Assessment Reports 1981 to 1984); however, no records exist of previous work on the Sturdee claim, although the ground was probably prospected by Kidd Creek subsequent to staking in 1981. The claim was not covered by Kidd Creek's otherwise extensive grid system.

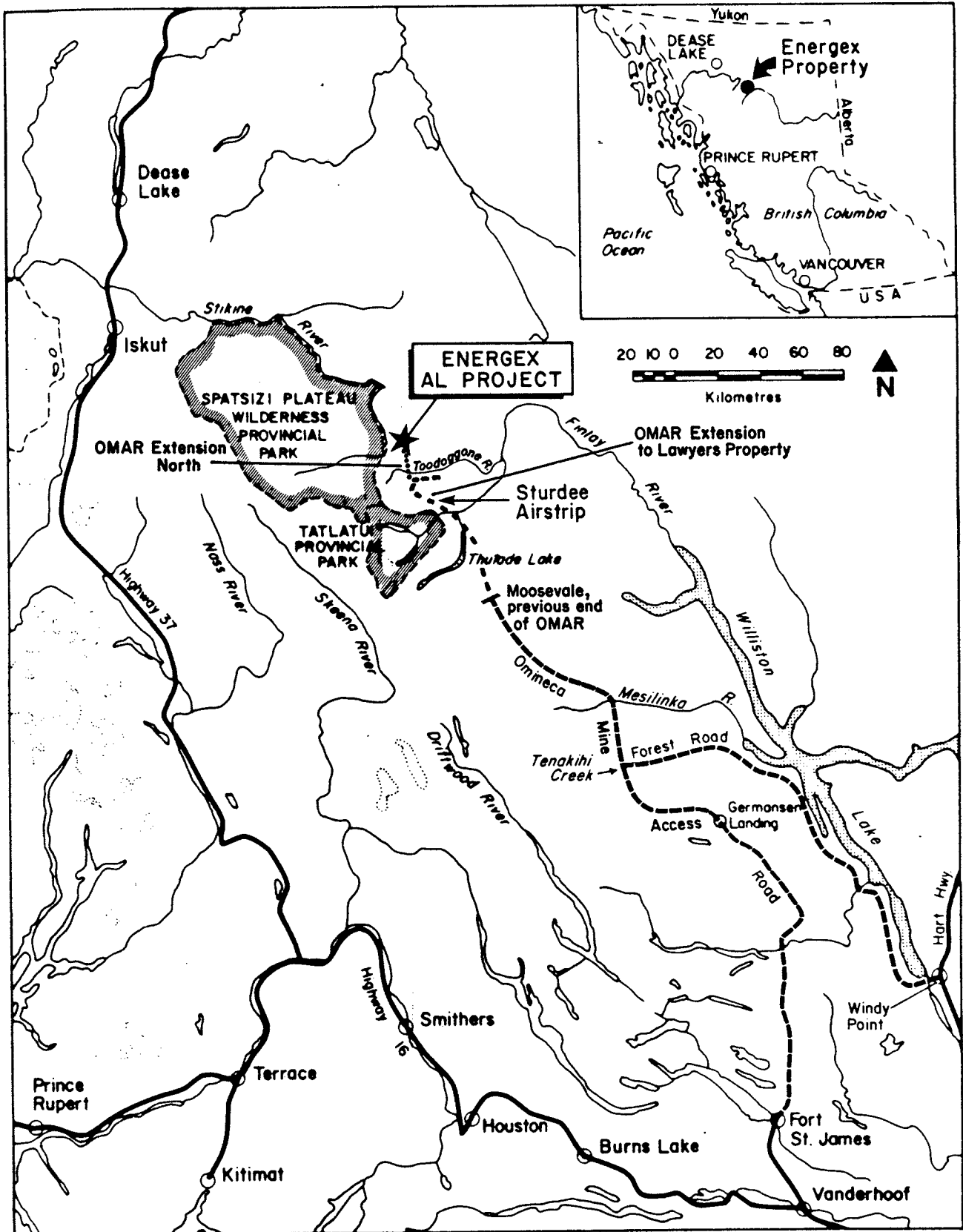
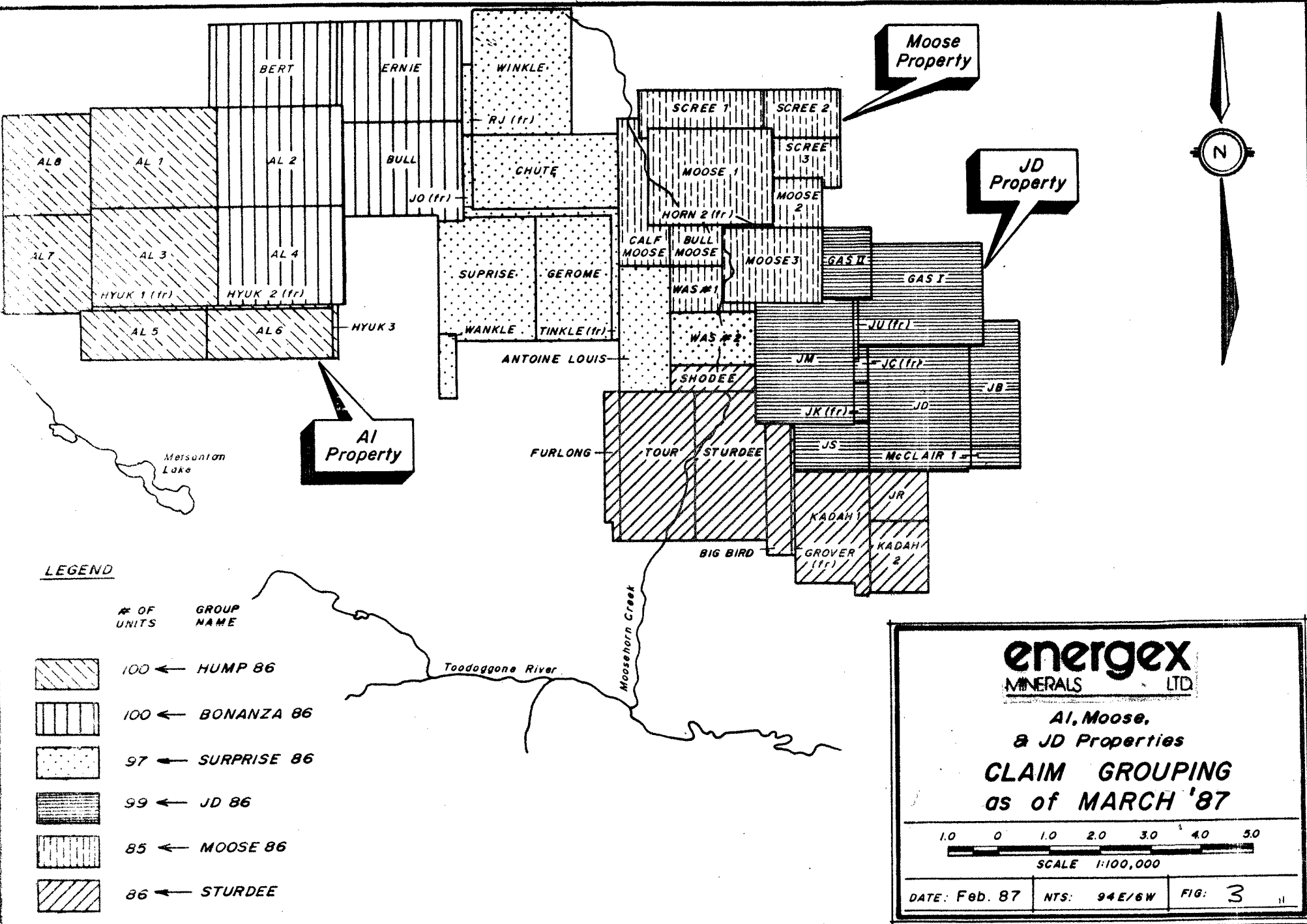


Figure 2 Location of Energetical Project
ENERGETICAL MINERALS LTD.



LEGEND

# OF UNITS	GROUP NAME
100	HUMP 86
100	BONANZA 86
97	SURPRISE 86
99	JD 86
85	MOOSE 86
86	STURDEE

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**AI, Moose,
& JD Properties**

CLAIM GROUPING
as of MARCH '87

SCALE 1:100,000

DATE: Feb. 87	NTS: 94E/6W	FIG: 3	11
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6. REGIONAL GEOLOGY

The Toodoggone River area is situated near the eastern margin of the Intermontane Tectonic Belt. The oldest rocks in the area are late Paleozoic limestones in the vicinity of Baker Mine. These are in fault contact with the late Triassic Takla Group volcanic rocks exposed at Baker Mine and east and north of the Moose property.

A volcanic assemblage of Lower Jurassic age, lithologically distinctive from the Hazelton or Takla groups, was first recognized by Carter in 1971, and informally named the 'Toodoggone Volcanics'. These comprise a subaerial pyroclastic assemblage of predominantly andesitic composition (Panteleyev, 1983), which unconformably overlies, or is in fault contact with, older rocks. Toodoggone Volcanic rocks are contained in a 100-by-25 kilometer, northwest-trending belt, extending from Thutade Lake in the south to the Stikine River in the north. Mineral claims owned by Energex straddle the Toodoggone Volcanic Belt.

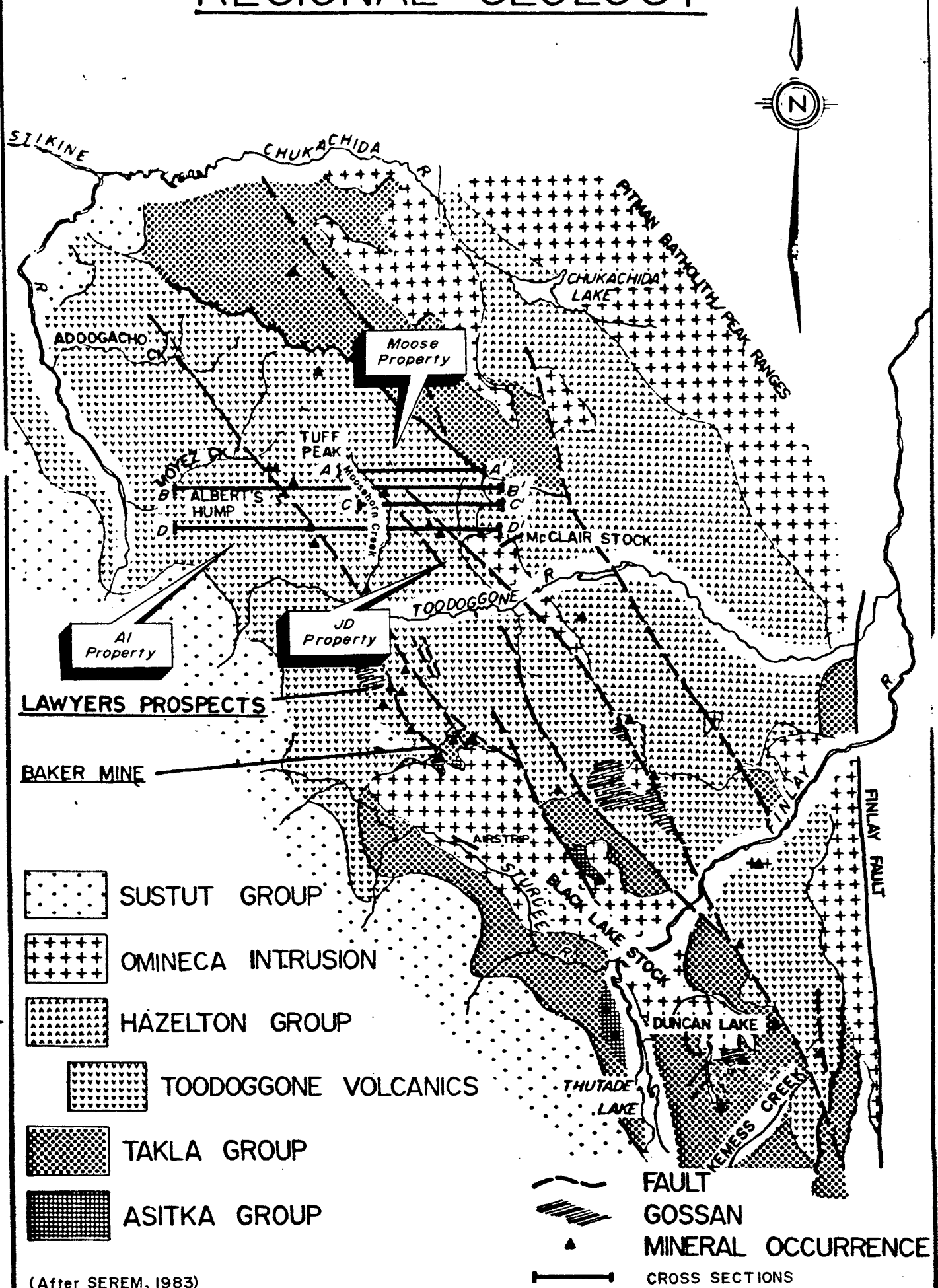
The Toodoggone rocks have been subdivided into eight units/formations (Panteleyev, 1982; Diakow, 1983) consisting of interlayered lava flows, ash flows and lapilli and crystal tuffs, with subvolcanic equivalents and associated volcanoclastic and epiclastic rocks. Radiometric ages indicate Toodoggone Volcanic rocks were deposited over a 20-million-year span, beginning in earliest Jurassic (Panteleyev, 1983). Regional geology as mapped by Diakow, Panteleyev and Schroeter (1985) is illustrated in Figure 4.

Toodoggone Volcanics and older layered rocks are cut by Omineca granitic intrusives of Early to Middle Jurassic age and by subvolcanic intrusions related to Toodoggone volcanism.

Clastic sedimentary rocks of the Cretaceous-tertiary Sustut Group overlie older layered rocks near the Stikine River and partly cover the southwestern exposed margin of the Toodoggone Volcanic Belt.

Structurally controlled, northwest-trending lineaments believed responsible for the channelling of ore-bearing fluids can be traced for many kilometers by Landsat and air photo linears connecting many of the area's most significant precious metal deposits (Baker, Lawyers, Moosehorn Canyon, Metsantan, Bonanza, Golden Lion).

REGIONAL GEOLOGY



(After SEREM, 1983)

Figure 4

7. GEOLOGY AND MINERALIZATION

Outcrop is relatively plentiful along Moosehorn Creek in the northwestern section of the claim, and above Kadah Bench in the southeastern section. Along Moosehorn Creek, locally layered ash flows form prominent bluffs. The rock is purple-brown to purple grey, porphyritic, friable, and parts easily along layers striking northeast and dipping southeast. No hydrothermal alteration was noted in these outcrops, although rare narrow calcite stringers are present.

Above Kadah Bench, north of Kadah Lake, dense porphyritic flow rocks outcrop strongly. No mineralization was noted during casual traverses, but a series of northwest-trending topographic breaks along the slope above Kadah Bench suggests the presence of faulting. The abundant outcrop would make this area easy to prospect.

8. GEOCHEMISTRY

from the B horizon

A total of 730 soil geochemical samples was taken along east-west lines controlled by a north-south baseline on the west claim boundary. The cross lines were spaced 100 meters apart, and samples were taken at 50-meter intervals along the cross lines. A tie-line, one kilometer east of the baseline (28,500E), helped control line skew, which was extreme at the south end of the grid due to compass sighting errors in heavy bush. (Figures 5A, B.)

The results of the soil analysis are displayed on two 1:5,000 scale plans appended to this report (Figures 5A and 5B). The results must be interpreted with care, recognizing the varied overburden and drainage types and the presence of placer gold in Moosehorn Creek alluvium.

No clear pattern of significance is indicated by the soil results. Anomalous (mean + 2 S.D.) values for the five metals are as follows:

<u>Metal</u>	<u>Mean</u>	<u>S.D.</u>	<u>Mean + 2 S.D.</u>
Gold	6.5 ppb	12.7 ppb	31.9 ppb
Silver	0.8 ppm	4.0 ppm	8.9 ppm
Copper	17.2 ppm	11.4 ppm	40 ppm
Lead	9.5 ppm	7.8 ppm	25.1 ppm
Zinc	71.3 ppm	27.6 ppm	126.5 ppm

Base metals, except for a few spot highs, are at or below threshold values. Gold and silver, which do not correlate well, display essentially the same patterns.

CONCLUSIONS AND RECOMMENDATIONS

The low average base and precious metal values in the soils on the Sturdee claim indicate that large hydrothermal alteration zones, such as occur on the Al, JD, and Moose properties, probably are not present. However, locally heavy transported overburden may mask certain portions of the claim, although work in the Porphyry Pearl area, located in the center of Moosehorn Creek valley 3-4 km to the north, has proven that heavy overburden is not widespread.

Room certainly exists for linear, narrow alteration zones but no dispersion patterns are evident.

Backhoe trenching of the spot gold anomalies at station 28600E on line 25700N, and at station 28000E on line 25400N, as well as the copper-silver anomaly at station 28900 E on line 24200N is recommended following an inspection of these sites. Additionally, prospecting for float in the north-central section of the claim, southeast of Moosehorn Creek, might be worthwhile in order to explain scattered "warm" gold and silver values in this area.

Follow-up activities should be carried out keeping the presence of the heavily mineralized outcropping Porphyry Pearl zone in mind. This zone typically hosts low-grade quartz-pyrite-chalcopyrite-sphalerite-galena mineralization as stockworks in propylite and may be expected to have a considerable down-ice and downstream dispersion pattern. Care should be exercised, if mineralized float is found, to determine that the source of such float is not the Porphyry Pearl deposit 3-4 km upstream.

Further work on the Sturdee claim could include, as well as prospecting, mapping, and backhoe pitting of spot anomalies, an IP survey to locate Porphyry Pearl type mineralization along the valley axis. The IP survey need not cover the northwest and southeast corners of the claim but should cover all areas where overburden depth is considered to exceed 3 meters. A dipole-dipole array with a current electrode separation of 200m, giving a typical depth penetration of 40m, should be adequate for detection of Porphyry Pearl type targets. The existing flagged grid lines would provide adequate control and orientation. Geophysical operators with experience in the north Toodogone include White Geophysical Ltd. and Phoenix Geophysics Ltd.

APPENDIX 1

STATEMENT OF EXPENDITURES

STURDEE CLAIM

STATEMENT OF EXPENDITURES

July 3 to August 4, 1987

LABOUR

<u>Name</u>	<u>Man/Days</u>	<u>Rate/Day</u>	<u>Total</u>	
B. Cross	5.0	90	450.00	
A. Davies	5.5	90	495.00	
T. Hutchings	1.0	120	120.00	
D. Kelsch	6.0	108	648.00	
D. Lockie	5.0	96	480.00	
G. Sivertz	4.0	200	800.00	
J. Stevens	2.0	180	<u>360.00</u>	\$ 3,353.00

FOOD & ACCOMMODATION

28.5 mandays at \$75/manday 2,137.50

HELICOPTER SUPPORT

6.0 hours at \$550/hour 3,300.00

LABORATORY ANALYSIS

730 samples @ \$11.35 each 8,285.50

FREIGHT

730 samples = 100 kg x \$2.50 250.00

REPORT PREPARATION

G. Sivertz (2 days at \$200/day) 400.00
Drafting & Materials 500.00

Total: \$18,226.00

APPENDIX 2

ANALYTICAL PROCEDURES



VANGEOCHEM LAB LIMITED

MAIN OFFICE
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(604) 986-5211 TELEX 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(804) 251-5656

FEB 2 - 1987

January 27th, 1987

TO:

ENERGEX MINERALS LIMITED
703 - 850 West Hastings St.
Vancouver, B.C. V6C 1E1

FROM:

Vangeochem Lab Limited
1521 Pemberton Avenue
North Vancouver, British Columbia
V7P 2S3

SUBJECT: Analytical procedure used to determine hot acid soluble for Cu, Pb, Zn and Ag in geochemical silt and soil samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

2. Method of Digestion

- (a) 0.50 gram portions of the minus 80-mesh samples were used. Samples were weighed out using an electronic balance.
- (b) Samples were heated in testtubes, on a sand bath in a Nitric and Perchloric concentrated acid solution (15% and 85% by volume respectively).
- (c) A minimum of 5000 ppm solution of $AlCO_3$ was added to each sample when Mo analyses were required. Digested samples were diluted with demineralized water to a



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fixed volume. The samples were agitated to obtain a homogeneous solution.

3. Method of Analyses

Cu, Pb, Zn, and Ag concentrations were determined using a Techtron Atomic Absorption Spectrophotometer Model AA5 with their respective hollow cathode lamps. The digested samples were directly aspirated into an air and acetylene mixture flame. The results, in parts per million, were calculated by comparing them to a set of standards used to calibrate the atomic absorption units.

4. Background Correction

A hydrogen continuum lamp was used to correct the Ag background interferences..

5. Analysts

The analyses were supervised or determined by either Mr. Conway Chun or Mr. Eddie Tang, and, the laboratory staff.

Eddie Tang
VANGEOCHEM LAB LIMITED



VANGEOCHEM LAB LIMITED

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January 27th, 1987

TO:

ENERGEX MINERALS LIMITED
703 - 850 West Hastings St.
Vancouver, B.C. V6C 1E1

FROM:

Vangeochem Lab Limited
1521 Pemberton Avenue
North Vancouver, British Columbia
V7P 2S3

SUBJECT: Analytical procedure used to determine Aqua Regia soluble gold in geochemical samples

FEB 2 - 1987

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

2. Method of Digestion

- (a) 5.00 to 10.00 grams of the minus 80-mesh portion of the samples were used. Samples were weighed out using an electronic micro-balance and deposited into beakers.
- (b) Using a 20 ml solution of Aqua Regia (3:1 solution of HCl to HNO₃), each sample was vigorously digested over a hot plate.
- (c) The digested samples were filtered and the washed pulps were discarded. The filtrate was then reduced in volume to about 5 ml.



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(d) Au complex ions were then extracted into a di-isobutyl ketone and thiourea medium (Anion exchange liquids "Aliquot 336").

(e) Separatory funnels were used to separate the organic layer.

3. Method of Detection

The detection of Au was performed with a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out onto a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values, in parts per billion, were calculated by comparing them with a set of gold standards.

4. Analysts

The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and his laboratory staff.

Eddie Tang
VANGEOCHEM LAB LIMITED

APPENDIX 3

ANALYSIS CERTIFICATES



VANGEOCHEM LAB LIMITED

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GEOCHEMICAL ANALYTICAL REPORT

CLIENT: ENERGEX MINERALS LTD.
ADDRESS: PO BOX 12052 2500-555 W.
: Hastings St Vanc, B.C.
: V6B 4N5

DATE: August 07 1987

REPORT#: 870754 GA
JOB#: 870754

PROJECT#: AL CAMP
SAMPLES ARRIVED: July 20 1987
REPORT COMPLETED: August 07 1987
ANALYSED FOR: Cu Pb Zn Ag Au

INVOICE#: 870754 NA
TOTAL SAMPLES: 347
SAMPLE TYPE: 347 SOIL
REJECTS: DISCARDED

SAMPLES FROM: ENERGEX MINERALS LTD.
COPY SENT TO: D KELSCH

PREPARED FOR: D KELSCH

ANALYSED BY: VGC Staff

SIGNED: 

GENERAL REMARK: None



VANGEOCHEM LAB LIMITED

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REPORT NUMBER: 870754 GA

JOB NUMBER: 870754

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PAGE 1 OF 9

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
23800 N 27500E	8	8	49	.6	10
23800 N 27550E	11	4	48	.4	10
23800 N 27600E	10	8	55	.6	nd
23800 N 27700E	nd	5	60	.5	10
23800 N 27750E	7	8	32	.6	nd
23800 N 27800E	12	7	44	.4	15
23800 N 27850E	16	7	55	.6	nd
23800 N 27900E	8	9	49	.6	nd
23800 N 27950E	9	11	62	.6	20
23800 N 28000E	7	7	48	.5	nd
23800 N 28050E	7	7	44	.6	nd
23800 N 28100E	8	9	46	.8	nd
23800 N 28150E	8	5	58	.6	5
23800 N 28200E	7	9	40	.8	10
23800 N 28250E	9	8	41	.6	10
23800 N 28300E	8	9	60	.8	nd
23800 N 28350E	10	11	46	.8	15
23800 N 28400E	11	8	74	.6	5
23800 N 28450E	9	39	51	.8	5
23800 N 28500E	158	34	85	.5	nd
23800 N 28550E	6	15	50	.8	10
23800 N 28650E	18	4	37	1.6	10
23800 N 28700E	8	10	48	.6	nd
23800 N 28750E	32	3	69	1.3	5
23800 N 28800E	18	8	91	.8	nd
23800 N 28850E	10	5	60	.8	nd
23800 N 28900E	20	6	100	.6	5
23800 N 28950E	14	11	116	1.5	5
23900 N 27500E	8	2	49	.6	nd
24000 N 27500E	16	9	54	.6	15
24000 N 27550E	15	11	47	.8	nd
24000 N 27600E	13	8	47	.6	nd
24000 N 27650E	14	10	36	.8	nd
24000 N 27700E	49	8	56	1.1	10
24000 N 27750E	10	8	51	.6	nd
24000 N 27800E	11	15	82	1.1	nd
24000 N 27850E	20	19	104	1.1	nd
24000 N 27900E	11	9	61	.5	30
24000 N 27950E	8	7	49	.4	nd
DETECTION LIMIT	1	2	1	0.1	5



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PAGE 2 OF 9

SAMPLE #	Cu	Pb	Zn	Ag	Au
	ppm	ppm	ppm	ppm	ppb
24000 N 28000E	12	11	60	.4	10
24000 N 28050E	17	15	78	.6	5
24000 N 28100E	10	9	58	.3	5
24000 N 28150E	9	7	56	.4	5
24000 N 28200E	7	7	41	.2	10
24000 N 28250E	6	6	38	.2	nd
24000 N 28300E	7	7	46	.5	10
24000 N 28350E	4	7	17	.1	nd
24000 N 28400E	7	11	38	.4	nd
24000 N 28450E	7	10	37	.2	nd
24000 N 28500E	8	11	55	.4	nd
24000 N 28550E	8	7	49	.4	10
24000 N 28600E	7	7	40	.4	nd
24000 N 28650E	8	6	43	.5	nd
24000 N 28700E	11	7	49	.1	10
24000 N 28750E	11	nd	6	.1	10
24000 N 28800E	13	4	102	.1	5
24000 N 28850E	37	6	54	.7	5
24000 N 28900E	17	4	68	.4	10
24000 N 28950E	16	5	115	.3	5
24100 N 27500E	16	7	54	.4	nd
24100 N 27550E	13	6	61	.2	5
24100 N 27600E	13	9	61	.2	5
24100 N 27650E	8	5	52	.4	nd
24100 N 27700E	8	2	43	.2	nd
24100 N 27750E	12	8	45	.3	nd
24100 N 27800E	12	8	59	.6	nd
24100 N 27850E	14	16	108	.8	nd
24100 N 27900E	24	7	70	.8	nd
24100 N 27950E	10	10	62	.6	nd
24100 N 28000E	11	26	59	.4	5
24100 N 28050E	14	13	65	.6	nd
24100 N 28100E	7	10	47	.6	nd
24100 N 28150E	7	11	36	.6	nd
24100 N 28200E	11	8	69	.6	nd
24100 N 28250E	5	10	24	.5	nd
24100 N 28300E	6	10	43	.4	10
24100 N 28350E	6	15	20	.1	nd
24100 N 28400E	8	12	33	.1	nd
DETECTION LIMIT	1	2	1	0.1	5



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PAGE 3 OF 9

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
24100 N 28450E	9	12	46	.1	nd
24100 N 28500E	7	10	54	.1	nd
24100 N 28550E	8	9	47	1.5	10
24100 N 28600E	6	8	40	.1	10
24100 N 28650E	8	5	60	.1	5
24100 N 28700E	7	11	63	.1	nd
24100 N 28750E	16	4	91	.1	nd
24100 N 28800E	13	5	85	.1	10
24100 N 28850E	10	10	59	.1	nd
24100 N 28900E	16	3	53	.1	10
24100 N 28950E	14	4	79	.1	5
24200 N 27550E	17	5	63	.1	10
24200 N 27600E	26	6	97	.1	5
24200 N 27650E	19	12	85	.4	10
24200 N 27700E	12	8	66	.1	nd
24200 N 27750E	9	11	33	.1	nd
24200 N 27800E	10	26	57	.4	nd
24200 N 27850E	23	25	95	.4	nd
24200 N 27900E	48	11	69	1.8	10
24200 N 27950E	45	11	130	.8	10
24200 N 28000E	14	13	83	.5	10
24200 N 28050E	10	13	69	.4	5
24200 N 28100E	13	11	58	.5	5
24200 N 28150E	16	12	88	.9	10
24200 N 28200E	9	9	62	.8	nd
24200 N 28250E	7	11	39	.4	nd
24200 N 28300E	9	9	50	.4	nd
24200 N 28350E	7	13	43	.4	nd
24200 N 28400E	9	8	42	.1	nd
24200 N 28450E	11	8	53	.1	nd
24200 N 28500E	10	10	41	.4	10
24200 N 28550E	9	10	68	.5	10
24200 N 28600E	19	nd	60	2.1	10
24200 N 28650E	10	11	62	.4	nd
24200 N 28700E	12	4	68	.4	10
24200 N 28750E	14	7	63	.4	10
24200 N 28800E	19	6	144	.5	nd
24200 N 28850E	21	8	48	.3	5
24200 N 28900E	88	nd	51	5.2	10
DETECTION LIMIT	1	2	1	0.1	5



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 870754 GA

JOB NUMBER: 870754

ENERGEX MINERALS LTD.

PAGE 4 OF 9

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
24200 N 28950E	26	1	77	.6	10
24300 N 27500E	32	8	72	.4	10
24300 N 27650E	33	8	111	.6	10
24300 N 27700E	29	12	102	.6	5
24300 N 27750E	47	10	161	.8	5
24300 N 27800E	36	15	146	1.0	5
24300 N 27850E	21	12	99	.5	5
24300 N 27900E	60	10	116	1.2	10
24300 N 27950E	30	13	125	.6	10
24300 N 28000E	23	11	96	.6	10
24300 N 28050E	14	9	75	.8	nd
24300 N 28100E	13	11	66	.8	5
24300 N 28150E	12	11	66	.8	10
24300 N 28200E	10	8	58	.6	10
24300 N 28250E	10	9	56	.6	nd
24300 N 28300E	8	9	53	.5	10
24300 N 28350E	8	9	41	.4	10
24300 N 28400E	9	12	67	.6	10
24300 N 28450E	14	12	63	.3	10
24300 N 28550E	15	8	79	.6	20
24300 N 28600E	13	6	71	.4	5
24300 N 28650E	8	9	56	.5	5
24300 N 28700E	8	11	39	.6	nd
24300 N 28750E	8	9	62	.5	nd
24300 N 28800E	19	5	97	.2	nd
24300 N 28850E	16	4	77	.5	10
24300 N 28900E	19	3	58	.4	nd
24300 N 28950E	14	7	76	.6	10
24400 N 27500E	16	9	69	.4	nd
24400 N 28650E	11	9	85	nd	5
24400 N 28700E	11	8	66	.6	10
24400 N 28750E	11	8	60	.5	10
24400 N 28800E	21	nd	83	.3	10
24400 N 28850E	17	2	64	.5	5
24400 N 28900E	16	8	78	.5	5
24400 N 28950E	63	nd	79	2.1	10
24500AN 27550E	69	9	117	1.7	20
24500AN 27600E	16	10	62	.7	5
24500AN 27650E	15	11	71	.4	5
DETECTION LIMIT	1	2	1	0.1	5



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BRANCH OFFICE
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VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 870754 GA

JOB NUMBER: 870754

ENERGEX MINERALS LTD.

PAGE 5 OF 9

SAMPLE #	Cu	Pb	Zn	Ag	Au
	ppm	ppm	ppm	ppm	ppb
24500AN 27700E	13	9	59	.2	nd
24500AN 27750E	11	10	71	.4	nd
24500AN 27800E	28	15	65	.7	nd
24500AN 27850E	15	12	57	.5	nd
24500AN 27900E	16	15	56	.5	nd
24500 N 27500E	32	8	66	.7	nd
24500 N 27550E	19	9	71	.4	nd
24500 N 27600E	11	10	51	.2	nd
24500 N 27650E	11	11	35	.4	nd
24500 N 27700E	11	10	47	.5	nd
24500 N 27750E	11	15	69	.4	nd
24500 N 27800E	14	15	57	.9	nd
24500 N 27850E	12	16	54	.4	nd
24500 N 27900E	9	10	47	.2	20
24500 N 27950E	20	12	58	.7	10
24500 N 28000E	10	13	34	.4	10
24500 N 28050E	18	8	70	.3	nd
24500 N 28100E	14	12	56	.3	10
24500 N 28150E	41	9	207	.9	15
24500 N 28200E	14	10	50	.4	nd
24500 N 28250E	16	16	79	.5	10
24500 N 28300E	12	11	55	.5	5
24500 N 28350E	10	13	50	.4	nd
24500 N 28400E	13	12	77	1.3	10
24500 N 28450E	15	11	73	.5	10
24500 N 28500E	19	9	49	.3	nd
24500 N 28550E	25	4	22	1.5	nd
24500 N 28600E	14	6	28	.6	nd
24500 N 28650E	36	9	27	1.1	nd
24500 N 28700E	35	3	10	.7	nd
24500 N 28750E	13	12	79	.8	15
24500 N 28800E	23	5	83	.6	15
24500 N 28850E	21	9	49	.7	10
24500 N 28900E	18	6	71	.4	10
24500 N 28950E	19	6	89	.4	10
24600 N 27500E	69	9	101	.7	10
24600 N 27550E	18	12	82	.5	10
24600 N 27600E	11	8	69	.4	nd
24600 N 27650E	8	4	46	.1	nd

DETECTION LIMIT

1

2

1

0.1

5

nd = none detected

ppm = not analysed

ic = insufficient sample



VANGEOCHEM LAB LIMITED

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1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 966-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
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(604) 251-5656

REPORT NUMBER: 870754 8A

JOB NUMBER: 870754

ENERDEX MINERALS LTD.

PAGE 6 OF 9

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
24600 N 27700E	11	4	56	.1	nd
24600 N 27750E	30	5	89	.2	nd
24600 N 27800E	25	9	99	.6	nd
24600 N 27850E	17	4	55	.1	nd
24600 N 27900E	11	5	59	.1	nd
24600 N 27950E	18	5	37	.2	30
24600 N 28000E	50	nd	58	1.1	nd
24600 N 28050E	16	6	41	.1	nd
24600 N 28100E	7	7	33	.1	nd
24600 N 28150E	11	5	42	.1	nd
24600 N 28200E	30	2	145	.2	10
24600 N 28250E	18	3	72	.5	10
24600 N 28300E	18	9	59	.2	20
24600 N 28350E	11	6	63	.2	10
24600 N 28400E	9	6	63	.2	10
24600 N 28450E	48	nd	46	.6	10
24600 N 28500E	43	nd	12	.6	5
24600 N 28550E	16	nd	18	.1	20
24600 N 28600E	13	3	54	.2	5
24600 N 28650E	8	3	34	.1	nd
24600 N 28700E	11	10	87	.4	nd
24600 N 28750E	34	1	73	.6	nd
24600 N 28800E	21	6	98	.3	nd
24600 N 28850E	60	nd	58	.8	nd
24600 N 28900E	50	nd	159	.8	10
24600 N 28950E	21	1	61	.2	nd
24700 N 27500E	15	6	63	.2	10
24700 N 27550E	25	5	100	.3	15
24700 N 27600E	8	8	46	.2	5
24700 N 27650E	36	6	73	.8	10
24700 N 27700E	12	6	52	.3	10
24700 N 27750E	21	3	103	.2	20
24700 N 27800E	18	7	61	.2	10
24700 N 27850E	16	5	60	.1	5
24700 N 27900E	23	3	36	.3	10
24700 N 27950E	20	3	60	.5	5
24700 N 28000E	31	nd	27	.8	nd
24700 N 28050E	45	6	57	.9	nd
24700 N 28100E	28	4	57	.6	nd

DETECTION LIMIT

1

2

1

0.1

5

nd = not detected = not analyzed = insufficient sample



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
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(604) 251-5656

REPORT NUMBER: 870754 GA

JOB NUMBER: 870754

EMERGEX MINERALS LTD.

PAGE 7 OF 9

SAMPLE #	Cu	Pb	Zn	Ag	Au
	ppm	ppm	ppm	ppm	ppb
24700 N 28150E	24	7	81	.8	nd
24700 N 28200E	35	3	46	1.1	nd
24700 N 28250E	20	7	35	.2	10
24700 N 28300E	10	12	47	.3	nd
24700 N 28350E	17	14	92	.1	nd
24700 N 28400E	8	6	48	.1	nd
24700 N 28450E	19	12	55	.1	nd
24700 N 28500E	19	8	61	.3	nd
24700 N 28550E	14	nd	23	.1	nd
24700 N 28600E	22	11	74	.4	nd
24700 N 28650E	16	13	76	.3	nd
24700 N 28700E	22	11	62	.4	nd
24700 N 28750E	66	7	46	1.3	nd
24700 N 28800E	17	10	73	.4	nd
24700 N 28850E	21	7	64	.4	10
24700 N 28900E	26	9	103	.8	10
24700 N 28950E	17	9	75	.9	nd
24800 N 27500E	47	8	67	1.1	nd
24800 N 27550E	29	13	69	.9	20
24800 N 27600E	21	11	74	.6	10
24800 N 27650E	21	11	102	1.1	10
24800 N 27700E	17	9	56	.4	10
24800 N 27750E	25	6	42	1.8	10
24800 N 27800E	29	13	82	.4	10
24800 N 27850E	28	15	90	.4	10
24800 N 27900E	14	12	61	.1	10
24800 N 27950E	9	12	53	.4	10
24800 N 28000E	17	16	63	.3	15
24800 N 28050E	12	8	71	.6	nd
24800 N 28100E	29	5	44	.3	nd
24800 N 28150E	22	7	67	.3	25
24800 N 28200E	24	10	53	.8	10
24800 N 28250E	28	4	31	.4	10
24800 N 28300E	40	8	77	.5	5
24800 N 28350E	30	8	52	.6	10
24800 N 28400E	38	8	58	.6	10
24800 N 28450E	43	3	44	.6	10
24800 N 28500E	30	7	59	.6	nd
24800 N 28550E	24	7	54	.5	nd

DETECTION LIMIT

1

2

1

0.1

5

nd = none detected n/a = not analysed is = insufficient sample



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
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BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 870754 GA

JOB NUMBER: 870754

ENERGEX MINERALS LTD.

PAGE 8 OF 9

SAMPLE #	Cu	Pb	Zn	Ag	Au
	ppm	ppm	ppm	ppm	ppb
24800 N 28600E	24	4	46	.6	nd
24800 N 28650E	33	9	64	.5	nd
24800 N 28700E	41	12	71	.8	10
24800 N 28750E	21	10	74	.4	nd
24800 N 28800E	11	9	63	.4	5
24800 N 28850E	12	9	57	.6	10
24800 N 28900E	20	2	51	.2	10
24800 N 28950E	40	6	59	.6	10
24900 N 27500E	14	9	65	.5	5
24900 N 27550E	25	14	116	1.1	10
24900 N 27600E	20	10	86	.4	10
24900 N 27650E	32	13	84	.6	10
24900 N 27700E	25	13	97	.9	15
24900 N 27750E	14	7	59	.6	10
24900 N 27800E	17	10	73	.5	5
24900 N 27850E	12	8	54	.6	10
24900 N 27900E	14	12	60	.4	nd
24900 N 27950E	23	11	86	.2	20
24900 N 28000E	19	12	67	.7	5
24900 N 28050E	20	6	65	.5	5
24900 N 28100E	14	6	72	.9	10
24900 N 28150E	15	4	70	.7	5
24900 N 28200E	19	8	75	.7	10
24900 N 28250E	23	9	66	.5	10
24900 N 28300E	29	8	66	.3	nd
24900 N 28350E	18	9	58	.6	5
24900 N 28400E	23	8	74	1.1	10
24900 N 28450E	31	4	98	1.1	5
24900 N 28500E	27	7	64	.7	5
24900 N 28550E	14	9	60	.6	nd
24900 N 28600E	25	10	92	.6	nd
24900 N 28650E	10	11	61	.7	5
24900 N 28700E	12	9	68	.8	10
24900 N 28750E	12	7	100	.6	5
24900 N 28800E	15	9	59	.4	30
24900 N 28850E	25	7	80	.6	nd
24900 N 28900E	25	7	66	.6	10
24900 N 28950E	16	7	65	.1	30
25000 N 27500E	11	6	48	.1	nd

DETECTION LIMIT 1 2 1 0.1 5
nd = none detected -- = not analysed is = insufficient sample



VANGEOCHEM LAB LIMITED

MAIN OFFICE
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NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 870754 6A

JOB NUMBER: 870754

ENERGEX MINERALS LTD.

PAGE 9 OF 9

SAMPLE #	Cu	Pb	Zn	Ag	Au
	ppm	ppm	ppm	ppm	ppb
25000 N 27550E	30	10	130	1.1	5
25000 N 27600E	23	13	90	.2	20
25000 N 27650E	33	15	97	.6	10
25000 N 27700E	22	11	66	.1	10
25000 N 27750E	21	15	93	.6	15
25000 N 27800E	15	12	83	.3	15
25000 N 27850E	12	11	50	.2	10
25000 N 27900E	15	7	51	.1	10
25000 N 27950E	23	5	72	.5	5
25000 N 28000E	25	9	70	.3	15
25000 N 28050E	16	8	75	.3	5
25000 N 28100E	20	8	68	.2	10
25000 N 28150E	35	9	77	.8	10
25000 N 28200E	22	8	82	.3	nd
25000 N 28250E	26	2	64	.1	5
25000 N 28300E	25	5	80	.2	5
25000 N 28350E	23	3	39	.1	5
25000 N 28400E	22	6	85	.3	5
25000 N 28450E	39	7	82	.5	nd
25000 N 28500E	33	7	83	.5	10
25000 N 28550E	47	11	80	.2	10
25000 N 28600E	33	12	119	1.1	10
25000 N 28650E	16	10	67	.2	10
25000 N 28700E	10	5	72	.1	10
25000 N 28750E	23	20	82	.3	30
25000 N 28800E	15	6	86	.3	30
25000 N 28850E	16	7	64	.2	10
25000 N 28900E	17	9	65	.3	10
25000 N 28950E	14	8	110	.3	20
25100 N 27500E	11	10	49	.1	nd
25200 N 27500E	13	12	60	.3	10
25300 N 27500E	13	11	56	.3	5
25400 N 27500E	16	11	64	.2	10
25500 N 27500E	17	11	64	.2	5
25600 N 27500E	15	10	59	.2	5

DETECTION LIMIT 1 2 1 0.1 5
nd = none detected -- = not analysed is = insufficient sample



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1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

===== GEOCHEMICAL ANALYTICAL REPORT =====

CLIENT: ENERGEX MINERALS LTD.
ADDRESS: PO BOX 12052 2500-555 W.
: Hastings St Vanc, B.C.
: V6B 4N5

DATE: Sept 10 1987

REPORT#: 871003 GA
JOB#: 871003

PROJECT#: TOODOGGONE/SURPRISE CLAIM INVOICE#: 871003 NA
SAMPLES ARRIVED: Aug 10 1987 TOTAL SAMPLES: 421
REPORT COMPLETED: Sept 10 1987 SAMPLE TYPE: 421 SOIL
ANALYSED FOR: Cu Pb Zn Ag Au REJECTS: DISCARDED

SAMPLES FROM: JOYCE WARREN
COPY SENT TO: ENERGEX MINERALS LTD.

PREPARED FOR: MR. A. D. BIRKLAND

ANALYSED BY: VGC Staff

SIGNED: 

GENERAL REMARK: None



VANGEOCHEM LAB LIMITED

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(604) 251-5656

REPORT NUMBER: 871003 6A

JOB NUMBER: 871003

ENERGEX MINERALS LTD.

PAGE 2 OF 11

SAMPLE #		Cu	Pb	Zn	Ag	Au
		ppm	ppm	ppm	ppm	ppb
L10200E	9150N	9	nd	40	.2	5
L10200E	9200N	9	4	49	nd	nd
L10200E	9250N	24	9	85	nd	10
L10200E	9450N	6	10	42	nd	nd
L10200E	9500N	6	11	45	nd	5
L10200E	9550N	13	9	100	1.2	nd
L10200E	9600N	15	16	73	.2	nd
L10200E	9700N	10	6	94	nd	5
L10200E	9750N	13	7	73	nd	nd
L10200E	9800N	9	9	64	nd	nd
L10200E	9850N	16	15	106	nd	nd
L10200E	9900N	10	13	150	nd	nd
L10200E	9950N	9	15	78	.7	30
L10200E	10000N	6	5	60	nd	nd
L10300E	9050N	16	10	66	nd	nd
L10300E	9100N	10	13	54	nd	5
L10300E	9150N	10	4	67	nd	nd
L10300E	9200N	15	16	67	nd	nd
L10300E	9250N	9	2	58	nd	10
L10300E	9300N	13	14	76	.2	10
L10300E	9350N	9	10	63	.4	5
L10300E	9400N	6	13	36	nd	5
L10300E	9450N	9	16	51	.4	nd
L10300E	9500N	4	8	30	.2	nd
L10300E	9550N	4	9	31	.2	nd
L10300E	9600N	6	9	33	.2	nd
L10300E	9700N	10	17	48	.2	nd
L10300E	9750N	10	12	54	.2	nd
L10300E	9800N	12	10	64	.2	nd
L10300E	9850N	10	22	75	.7	10
L10300E	9900N	12	16	73	.7	10
L10300E	9950N	7	19	63	.2	10
L10300E	10000N	15	18	64	.2	nd
25750 BL		15	26	94	.8	5
25800 BL		18	15	84	.8	15
25850 BL		19	18	93	.7	nd
25900 BL		16	17	102	.7	10
25950 BL		15	12	64	.7	nd
26000 BL		9	17	52	.8	nd

DETECTION LIMIT

nd = none detected

1 2
-- = not analysed

1 0.1 5
is = insufficient sample



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
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BRANCH OFFICE
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(604) 251-5656

REPORT NUMBER: 871003 GA

JOB NUMBER: 871003

ENERGEX MINERALS LTD.

PAGE 3 OF 11

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
26050 BL	8	10	62	.1	10
26100 BL	4	nd	57	.1	10
26150 BL	7	nd	44	.1	nd
26200 BL	4	5	32	.1	nd
26250 BL	11	6	67	.1	nd
26300 BL	12	7	60	.1	nd
26350 BL	14	15	58	.1	nd
26400 BL	11	5	79	.6	nd
26450 BL	12	18	55	.1	nd
26500 BL	7	6	58	.1	10
26550 BL	7	6	48	.1	nd
26600 BL	5	4	39	.1	5
26650 BL	19	15	91	.1	nd
26700 BL	11	nd	39	.2	nd
L25600N 27550E	13	4	66	.1	nd
L25600N 27600E	23	8	83	.1	10
L25600N 27650E	18	15	70	.1	10
L25600N 27700E	45	14	99	.6	nd
L25600N 27750E	19	8	68	.2	nd
L25600N 27800E	35	8	101	.8	nd
L25600N 27850E	26	15	69	.5	nd
L25600N 27900E	14	9	63	1.1	10
L25600N 27950E	15	14	93	.6	nd
L25600N 28000E	9	6	48	.5	10
L25600N 28050E	18	14	94	.6	nd
L25600N 28100E	9	15	92	.5	nd
L25600N 28150E	18	14	101	.8	nd
L25600N 28200E	35	nd	81	.6	15
L25600N 28250E	24	nd	47	1.1	10
L25600N 28400E	14	10	72	.6	40
L25600N 28450E	4	3	68	.1	nd
L25600N 28500E	18	15	104	.5	40
L25600N 28550E	13	4	74	.1	10
L25600N 28600E	15	7	81	.2	10
L25600N 28700E	9	7	72	.1	10
L25600N 28750E	8	7	48	.1	10
L25600N 28800E	6	3	52	.1	nd
L25600N 28850E	19	10	101	.6	20
L25600N 28900E	6	nd	39	.1	5

DETECTION LIMIT

nd = none detected

1 2

-- = not analysed

1 0.1 5

is = insufficient sample



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: B71003 GA

JOB NUMBER: B71003

ENERGEX MINERALS LTD.

PAGE 4 OF 11

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
L25600N 28950E	12	4	61	.2	30
L25700N 27550E	24	5	73	.1	nd
L25700N 27600E	20	4	65	.1	nd
L25700N 27650E	20	4	66	.1	20
L25700N 27700E	12	2	44	.1	nd
L25700N 27750E	18	4	52	.2	nd
L25700N 27800E	23	5	59	.2	5
L25700N 27850E	36	8	141	.2	10
L25700N 27900E	18	9	88	.2	70
L25700N 27950E	11	6	60	.2	nd
L25700N 28000E	15	9	63	1.6	10
L25700N 28050E	12	9	72	1.1	20
L25700N 28100E	13	6	68	.5	10
L25700N 28150E	17	4	85	.5	20
L25700N 28200E	15	7	74	.2	nd
L25700N 28250E	9	4	53	.2	40
L25700N 28300E	11	2	57	.2	nd
L25700N 28350E	14	2	80	1.1	nd
L25700N 28400E	3	4	89	.1	nd
L25700N 28450E	4	6	67	.1	nd
L25700N 28500E	12	9	66	.6	nd
L25700N 28600E	18	15	83	1.6	280
L25700N 28650E	14	14	98	1.1	nd
L25700N 28700E	17	8	77	.8	nd
L25700N 28750E	11	11	59	.6	10
L25700N 28800E	9	5	54	.5	15
L25700N 28850E	18	5	79	1.1	5
L25700N 28900E	12	5	74	.5	10
L25700N 28950E	7	6	66	.5	10
L25800N 27550E	16	22	144	1.5	50
L25800N 27600E	18	18	133	1.1	20
L25800N 27650E	25	7	119	23.6	nd
L25800N 27700E	13	9	50	1.6	nd
L25800N 27750E	12	6	50	.8	5
L25800N 27800E	39	7	100	1.1	10
L25800N 27850E	24	8	74	.5	5
L25800N 27900E	15	170	61	.8	5
L25800N 27950E	13	16	59	14.5	50
L25800N 28000E	27	10	91	.8	nd

DETECTION LIMIT 1 2 1 0.1 5
nd = none detected -- = not analysed is = insufficient sample



VANGEOCHEM LAB LIMITED

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(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 871003 GA

JOB NUMBER: 871003

ENERGEX MINERALS LTD.

PAGE 5 OF 11

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
L25800N 28050E	13	8	57	.6	nd
L25800N 28100E	8	6	57	.3	nd
L25800N 28150E	21	14	81	.6	50
L25800N 28200E	50	8	93	1.7	10
L25800N 28250E	14	5	52	.4	nd
L25800N 28300E	12	5	61	.3	nd
L25800N 28350E	9	3	55	.3	nd
L25800N 28400E	9	6	57	.2	nd
L25800N 28450E	5	3	41	.3	nd
L25800N 28500E	30	13	152	1.6	nd
L25800N 28550E	8	9	60	.5	5
L25800N 28600E	10	9	110	1.2	10
L25800N 28650E	10	8	82	.6	20
L25800N 28700E	6	4	58	.6	5
L25800N 28750E	4	5	50	.6	15
L25800N 28800E	7	6	63	.6	nd
L25800N 28850E	4	3	51	.6	15
L25800N 28900E	6	3	66	.6	nd
L25900N 27550E	11	6	57	.6	nd
L25900N 27600E	12	5	67	.1	20
L25900N 27650E	26	4	82	.2	10
L25900N 27700E	18	9	58	.1	10
L25900N 27750E	20	19	130	.6	10
L25900N 27800E	15	14	130	.5	10
L25900N 27850E	22	8	94	.2	15
L25900N 27900E	29	9	101	.2	10
L25900N 27950E	17	4	61	.1	20
L25900N 28050E	15	6	75	.2	10
L25900N 28200E	15	6	55	.2	10
L25900N 28250E	14	6	62	.2	nd
L25900N 28300E	14	5	56	.2	nd
L25900N 28350E	16	2	65	.5	10
L25900N 28400E	7	2	51	.2	nd
L25900N 28450E	8	4	55	.1	nd
L25900N 28500E	10	7	79	.1	20
L25900N 28550E	21	12	128	.6	10
L25900N 28600E	11	8	96	.5	nd
L25900N 28650E	7	6	72	.3	5
L25900N 28700E	6	3	78	.1	20

DETECTION LIMIT
nd = none detected

1 2
-- = not analysed

1 0.1 5
is = insufficient sample



VANGEOCHEM LAB LIMITED

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NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 871003 GA

JOB NUMBER: 871003

ENERGEX MINERALS LTD.

PAGE 6 OF 11

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
L25900N 28750E	8	11	99	.3	10
L25900N 28800E	5	10	72	.1	nd
L25900N 28850E	4	8	58	.1	20
L25900N 28900E	4	9	67	.1	nd
L25900N 28950E (A)	23	13	85	.3	nd
L25900N 28950E (B)	5	6	70	.1	nd
L26000N 27550E	7	7	62	nd	nd
L26000N 27600E	10	14	76	nd	nd
L26000N 27650E	14	10	72	.1	nd
L26000N 27700E	20	11	79	.1	10
L26000N 27750E	18	9	75	nd	10
L26000N 27800E	12	18	98	.3	10
L26000N 27850E	16	24	125	.3	10
L26000N 27900E	46	21	154	1.6	5
L26000N 27950E	31	13	87	.3	nd
L26000N 28000E	32	10	99	.7	nd
L26000N 28050E	13	10	76	.1	nd
L26000N 28100E	24	5	73	1.0	10
L26000N 28150E	32	6	85	1.2	10
L26000N 28200E	30	7	77	1.2	10
L26000N 28250E	32	3	60	1.2	nd
L26000N 28300E	21	4	67	1.1	10
L26000N 28350E	15	nd	37	1.2	10
L26000N 28400E	38	20	153	1.7	15
L26000N 28450E	12	12	76	.6	10
L26000N 28500E	12	13	83	.7	10
L26000N 28550E	9	15	75	1.0	10
L26000N 28600E	5	9	52	.3	10
L26000N 28650E	5	10	59	.3	10
L26000N 28700E	6	9	80	.1	10
L26000N 28750E	5	11	91	.3	nd
L26000N 28850E	5	8	72	.3	nd
L26000N 28900E	4	9	62	.3	10
L26000N 28950E	4	10	67	.3	10
L26100N 27550E	8	10	51	.3	nd
L26100N 27600E	8	10	94	.3	10
L26100N 27650E	16	17	93	.7	nd
L26100N 27700E	30	15	96	.7	nd
L26100N 27750E	17	11	83	.6	nd

DETECTION LIMIT
nd = none detected

1 2
-- = not analysed

1 0.1 5
is = insufficient sample



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 871003 GA

JOB NUMBER: 871003

ENERGEX MINERALS LTD.

PAGE 7 OF 11

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
L26100N 27800E	72	3	51	.6	10
L26100N 27850E	16	15	121	.1	20
L26100N 27900E	19	19	152	.3	10
L26100N 27950E	18	22	142	.3	10
L26100N 28000E	13	20	153	.6	10
L26100N 28100E	24	8	100	.1	nd
L26100N 28150E	32	4	92	.1	10
L26100N 28200E	20	5	79	.1	nd
L26100N 28250E	27	5	97	.1	5
L26100N 28300E	30	4	77	.6	10
L26100N 28350E	10	6	61	.1	15
L26100N 28400E	17	7	70	.6	10
L26100N 28500E	33	9	136	.6	10
L26100N 28550E	30	7	138	1.2	5
L26100N 28600E	32	9	118	.6	5
L26100N 28650E	11	7	89	.1	5
L26100N 28700E	4	2	99	.1	nd
L26100N 28750E	4	4	71	.1	10
L26100N 28800E	6	2	67	.1	10
L26100N 28850E	3	5	85	.1	10
L26100N 28900E	13	6	76	.1	nd
L26100N 28950E	6	nd	65	.1	nd
L26200N 27550E	9	6	54	.1	nd
L26200N 27600E	4	2	46	.1	nd
L26200N 27650E	6	6	97	.1	10
L26200N 27700E	13	7	57	.1	nd
L26200N 27750E	26	12	79	.3	nd
L26200N 27800E	16	4	62	.1	nd
L26200N 27850E	46	12	60	1.5	15
L26200N 27900E	16	4	65	.1	10
L26200N 28000E	14	19	117	.6	nd
L26200N 28050E	12	18	134	.6	35
L26200N 28100E	27	12	112	.6	10
L26200N 28150E	33	6	105	1.1	20
L26200N 28200E	35	4	110	1.2	15
L26200N 28250E	23	8	83	1.1	20
L26200N 28300E	12	7	55	.6	nd
L26200N 28350E	20	4	104	1.1	nd
L26200N 28400E	35	13	158	1.1	10

DETECTION LIMIT 1 2 1 0.1 5
 nd = none detected -- = not analysed is = insufficient sample



VANGEOCHEM LAB LIMITED

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1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: B71003 GA

JOB NUMBER: B71003

ENERGEX MINERALS LTD.

PAGE 8 OF 11

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
L26200N 28450E	33	10	158	1.7	nd
L26200N 28500E	19	8	121	.7	nd
L26200N 28550E	20	14	122	.5	nd
L26200N 28600E	15	14	92	.3	nd
L26200N 28650E	6	6	63	.2	5
L26200N 28700E	4	3	50	.2	nd
L26200N 28750E	4	5	57	.2	nd
L26200N 28800E	6	5	123	.2	10
L26200N 28850E	11	5	77	.2	10
L26200N 28900E	4	5	59	.2	10
L26200N 28950E	4	8	64	.2	10
L26300N 27550E	11	11	55	.2	nd
L26300N 27600E	5	5	43	.1	nd
L26300N 27650E	19	3	78	.3	20
L26300N 27700E	34	8	123	.2	nd
L26300N 27750E	16	8	88	.1	nd
L26300N 27800E	11	6	116	.3	5
L26300N 27850E	16	8	65	.1	5
L26300N 27900E	21	7	107	.1	5
L26300N 27950E	21	8	88	.1	nd
L26300N 28000E	18	23	157	.2	nd
L26300N 28050E	21	22	131	.3	nd
L26300N 28100E	20	8	151	.5	nd
L26300N 28150E	17	11	113	.2	5
L26300N 28200E	20	9	130	1.5	5
L26300N 28250E	21	6	97	.5	nd
L26300N 28300E	17	7	91	.3	5
L26300N 28350E	36	18	164	.5	5
L26300N 28400E	32	24	176	.5	nd
L26300N 28450E	30	27	191	.3	nd
L26300N 28500E	7	6	65	.3	10
L26300N 28550E	18	15	153	.3	10
L26300N 28600E	4	5	52	.1	10
L26300N 28650E	14	8	89	.3	10
L26300N 28700E	10	6	64	.2	nd
L26300N 28750E	15	6	87	.3	nd
L26300N 28800E	9	3	107	.2	nd
L26300N 28850E	12	8	110	.2	nd
L26300N 28900E	3	3	50	.1	nd

DETECTION LIMIT
nd = none detected

1 2
-- = not analysed

1 0.1 5
is = insufficient sample



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 871003 GA

JOB NUMBER: 871003

ENERGEX MINERALS LTD.

PAGE 9 OF 11

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
L26300N 28950E	7	7	81	.1	nd
L26400N 27550E	10	5	56	.1	nd
L26400N 27600E	9	7	58	.1	nd
L26400N 27650E	11	5	77	.1	nd
L26400N 27700E	15	7	91	.1	nd
L26400N 27750E	7	6	91	.3	nd
L26400N 27800E	10	9	97	.3	nd
L26400N 27850E	6	5	51	.1	nd
L26400N 27900E	10	9	66	.1	nd
L26400N 27950E	12	7	86	.1	nd
L26400N 28000E	14	24	103	.6	nd
L26400N 28050E	13	21	126	.6	25
L26400N 28150E	6	4	89	.1	20
L26400N 28200E	11	5	134	.8	15
L26400N 28250E	20	19	169	1.2	5
L26400N 28300E	19	17	175	1.1	5
L26400N 28350E	9	9	84	.6	nd
L26400N 28400E	20	15	135	1.1	10
L26400N 28450E	13	16	121	.8	10
L26400N 28500E	6	10	71	.6	10
L26400N 28550E	11	6	54	.6	5
L26400N 28600E	7	6	85	.6	nd
L26400N 28650E	4	6	57	.6	nd
L26400N 28700E	18	5	68	.8	20
L26400N 28750E	24	10	96	.8	15
L26400N 28800E	6	4	55	.6	10
L26400N 28850E	4	6	57	.6	10
L26400N 28900E	8	6	92	.3	10
L26400N 28950E	3	2	69	.3	10
L26500N 27550E	10	6	63	.1	10
L26500N 27600E	7	9	49	1.1	10
L26500N 27650E	6	9	63	.6	10
L26500N 27700E	17	20	95	.8	10
L26500N 27750E	4	12	45	.3	10
L26500N 27800E	3	2	51	.6	10
L26500N 27850E	4	5	57	.3	10
L26500N 27900E	9	7	42	.1	10
L26500N 27950E	9	6	77	.3	10
L26500N 28000E	18	13	66	.3	nd

DETECTION LIMIT 1 2 1 0.1 5
nd = none detected -- = not analysed is = insufficient sample



VANGEOCHEM LAB LIMITED

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(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: B71003 6A

JOB NUMBER: B71003

ENERGEX MINERALS LTD.

PAGE 10 OF 11

SAMPLE #	Cu	Pb	Zn	Ag	Au
	ppm	ppm	ppm	ppm	ppb
L26500N 28100E	16	25	127	1.7	10
L26500N 28150E	11	11	77	.8	nd
L26500N 28200E	19	11	104	.8	nd
L26500N 28250E	14	12	77	.6	5
L26500N 28300E	20	7	102	.8	nd
L26500N 28350E	17	9	84	.8	nd
L26500N 28400E	33	11	135	1.7	nd
L26500N 28450E	7	8	62	.5	30
L26500N 28500E	7	5	60	.2	nd
L26500N 28550E	4	7	51	.4	nd
L26500N 28600E	6	9	67	.6	nd
L26500N 28650E	5	12	86	.6	nd
L26500N 28700E	6	7	63	.5	nd
L26500N 28750E	8	9	69	.8	nd
L26500N 28800E	24	10	99	.6	5
L26500N 28850E	8	13	86	.6	nd
L26500N 28900E	8	7	71	.5	nd
L26500N 28950E	7	5	66	.5	nd
L26600N 27550E	7	8	41	.4	nd
L26600N 27600E	7	7	43	.4	nd
L26600N 27650E	14	8	46	.5	nd
L26600N 27700E	6	9	46	.5	nd
L26600N 27750E	5	8	59	.5	nd
L26600N 27800E	18	5	57	.8	nd
L26600N 27850E	7	10	99	.5	nd
L26600N 27900E	7	7	49	.5	5
L26600N 27950E	13	9	77	.4	10
L26600N 28000E	11	17	119	.5	nd
L26600N 28050E	16	25	139	1.2	nd
L26600N 28250E	12	10	110	.5	nd
L26600N 28300E	20	10	100	1.2	nd
L26600N 28350E	23	10	101	1.1	nd
L26600N 28400E	9	13	68	.8	nd
L26600N 28450E	20	7	77	.8	nd
L26600N 28550E	22	11	101	.8	5
L26600N 28600E	18	13	133	1.1	10
L26600N 28700E	8	8	60	.4	nd
L26600N 28750E	34	5	83	1.1	nd
L26600N 28800E	25	5	92	.5	nd

DETECTION LIMIT

nd = none detected

1 2

-- = not analysed

1 0.1 5

is = insufficient sample



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 871003 GA

JOB NUMBER: 871003

ENERGEX MINERALS LTD.

PAGE 11 OF 11

SAMPLE #	Cu	Pb	Zn	Ag	Au
	ppm	ppm	ppm	ppm	ppb
L26600N 28850E	25	7	69	1.1	nd
L26600N 28900E	12	11	76	.2	nd
L26600N 28950E	11	12	81	.2	5
L26700N 27550E	7	9	49	.2	nd
L26700N 27600E	28	16	61	.3	nd
L26700N 27650E	9	15	60	.2	10
L26700N 27700E	8	11	58	.2	nd
L26700N 27750E	7	13	60	.1	5
L26700N 27800E	8	8	52	.1	nd
L26700N 27850E	26	6	94	.1	10
L26700N 27900E	12	12	86	.2	5
L26700N 27950E	15	13	70	.2	5
L26700N 28000E	12	27	145	.2	nd
L26700N 28100E	14	26	135	.2	nd
L26700N 28150E	19	14	154	.1	nd
L26700N 28200E	24	16	112	.2	nd
L26700N 28250E	33	16	125	.2	nd
L26700N 28300E	26	16	143	.5	10
L26700N 28350E	42	20	118	.7	5
L26700N 28400E	28	17	86	.2	5
L26700N 28450E	32	6	73	.2	nd
L26700N 28500E	17	8	90	.1	nd
L26700N 28550E	29	7	82	.3	5
L26700N 28600E	12	19	86	.7	nd
L26700N 28650E	7	14	61	.5	nd
L26700N 28700E	10	11	63	.1	nd
L26700N 28750E	27	nd	49	.1	nd
L26700N 28800E	27	nd	48	.1	nd
L26700N 28850E	33	17	88	1.2	nd
L26700N 28900E	11	18	86	.7	nd
L26700N 28950E	6	17	59	.8	nd

DETECTION LIMIT
nd = none detected

1 2
-- = not analysed

1 0.1 5
is = insufficient sample



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(804) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1830 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(804) 251-5856

GEOCHEMICAL ANALYTICAL REPORT

CLIENT: ENERGEX MINERALS LTD.
ADDRESS: PO BOX 12052 2500-555 W.
: Hastings St Vanc, B.C.
: V6B 4N5

DATE: Sept 04 1987

REPORT#: 870909 GA
JOB#: 870909

PROJECT#: ALCAMP
SAMPLES ARRIVED: July 31 1987
REPORT COMPLETED: Sept 04 1987
ANALYSED FOR: Cu Pb Zn Ag Au

INVOICE#: 870909 NA
TOTAL SAMPLES: 144
SAMPLE TYPE: 144 SOIL
REJECTS: DISCARDED

SAMPLES FROM: J. WARREN
COPY SENT TO: ENERGEX MINERALS LTD.

PREPARED FOR: ENERGEX MINERALS LTD.

ANALYSED BY: VGC Staff

SIGNED: _____

GENERAL REMARK: None



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
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(604) 251-5656

REPORT NUMBER: 870909 GA

JOB NUMBER: 870909

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PAGE 1 OF 4

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
25100N 27550E	43	21	142	.7	10
25100N 27600E	30	16	99	.8	20
25100N 27650E	33	30	106	1.6	20
25100N 27700E	24	12	75	.2	10
25100N 27750E	20	8	63	.2	10
25100N 27800E	23	3	48	.4	nd
25100N 27850E	24	6	84	1.1	5
25100N 27900E	23	7	76	.7	5
25100N 27950E	21	6	58	.7	nd
25100N 28000E	26	nd	48	1.1	10
25100N 28050E	19	8	63	.7	10
25100N 28100E	23	5	87	.8	10
25100N 28150E	22	5	70	.4	10
25100N 28200E	37	3	51	.7	10
25100N 28250E	22	5	76	.4	20
25100N 28300E	42	9	70	.8	20
25100N 28350E	29	3	50	.7	5
25100N 28400E	24	7	58	.7	15
25100N 28450E	23	5	64	.7	10
25100N 28500E	26	9	64	.8	10
25100N 28550E	15	8	45	.4	10
25100N 28600E	12	6	54	.2	10
25100N 28650E	17	9	61	.7	10
25100N 28700E	11	7	47	.4	10
25100N 28800E	12	6	57	.4	nd
25100N 28850E	8	7	40	.4	nd
25100N 28900E	28	8	115	.8	10
25100N 28950E	14	10	71	.7	nd
25200N 27550E	18	14	64	.7	nd
25200N 27600E	28	9	79	1.3	nd
25200N 27650E	11	10	49	.7	nd
25200N 27700E	13	12	59	.7	nd
25200N 27750E	23	8	67	.7	5
25200N 27800E	20	5	55	.7	5
25200N 27850E	18	10	65	.7	5
25200N 27900E	19	10	68	.7	5
25200N 27950E	17	11	61	.7	nd
25200N 28000E	23	3	55	1.1	nd
25200N 28050E	24	3	58	1.1	nd

DETECTION LIMIT
nd = none detected

1 2
-- = not analysed

1 0.1 5
is = insufficient sample



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(604) 251-5656

REPORT NUMBER: B70909 GA

JOB NUMBER: B70909

ENERGEX MINERALS LTD.

PAGE 2 OF 4

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
25200N 28100E	25	6	73	.5	15
25200N 28150E	25	nd	57	.4	5
25200N 28200E	18	nd	81	.3	10
25200N 28250E	17	3	62	.3	nd
25200N 28300E	18	2	72	.3	nd
25200N 28350E	24	2	85	.8	nd
25200N 28400E	20	4	64	.4	nd
25200N 28450E	30	4	81	.5	nd
25200N 28500E	28	2	77	.7	nd
25200N 28550E	20	6	72	.3	nd
25200N 28600E	25	2	84	.4	10
25200N 28650E	51	4	64	.9	10
25200N 28700E	30	4	67	.7	10
25200N 28750E	27	4	75	.8	10
25200N 28800E	12	5	56	.4	15
25200N 28850E	12	6	57	.6	nd
25200N 28900E	15	9	61	.5	10
25200N 28950E	13	19	71	.5	nd
25300N 27550E	12	6	54	.5	nd
25300N 27600E	27	9	98	.5	10
25300N 27650E	14	5	49	.5	nd
25300N 27700E	30	11	68	.9	10
25300N 27750E	20	7	66	.5	nd
25300N 27800E	14	7	69	.5	nd
25300N 27850E	33	4	75	.7	nd
25300N 27900E	27	2	64	.5	nd
25300N 27950E	22	nd	63	1.9	nd
25300N 28000E	23	nd	49	.8	nd
25300N 28050E	22	2	42	1.4	nd
25300N 28100E	20	8	60	.5	nd
25300N 28150E	26	8	76	.7	10
25300N 28200E	12	6	55	.6	20
25300N 28250E	12	8	51	.5	nd
25300N 28300E	20	4	49	1.2	20
25300N 28350E	16	6	62	.8	10
25300N 28400E	9	7	37	.5	nd
25300N 28450E	15	2	66	.7	10
25300N 28500E	32	nd	54	.7	10
25300N 28550E	34	3	62	.9	20

DETECTION LIMIT
nd = none detected

1 2
-- = not analysed

1 0.1 5
is = insufficient sample



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(604) 251-5656

REPORT NUMBER: 870909 GA

JOB NUMBER: 870909

ENERGEX MINERALS LTD.

PAGE 3 OF 4

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
25300N 28600E	36	7	84	.6	nd
25300N 28650E	14	7	66	.1	10
25300N 28700E	24	10	102	.7	10
25300N 28750E	20	9	91	.5	20
25300N 28800E	20	10	81	.2	10
25300N 28850E	13	7	70	.5	nd
25300N 28900E	10	7	59	.2	5
25300N 28950E	13	8	71	.4	5
25400N 27550E	14	8	48	.2	nd
25400N 27600E	24	11	65	.3	10
25400N 27650E	16	7	50	.1	10
25400N 27700E	16	8	45	.2	nd
25400N 27750E	11	8	41	.3	10
25400N 27800E	17	8	51	.4	nd
25400N 27850E	16	11	58	.5	nd
25400N 27900E	16	10	60	.3	nd
25400N 27950E	33	12	125	1.2	nd
25400N 28000E	14	12	73	.7	150
25400N 28050E	14	16	73	.6	30
25400N 28100E	26	7	68	.8	20
25400N 28150E	34	5	57	.7	10
25400N 28200E	17	8	48	.5	30
25400N 28250E	10	10	46	.5	10
25400N 28300E	13	7	42	.6	15
25400N 28350E	16	11	54	.3	10
25400N 28400E	18	12	74	.5	15
25400N 28450E	9	9	54	.5	15
25400N 28500E	38	6	63	1.1	30
25400N 28550E	31	10	116	.8	30
25400N 28600E	18	11	85	.3	nd
25400N 28650E	13	10	55	.1	nd
25400N 28700E	10	10	53	.2	nd
25400N 28750E	12	9	62	.8	nd
25400N 28800E	9	9	46	.7	nd
25400N 28850E	13	10	62	.5	10
25400N 28900E	25	13	89	.7	10
25400N 28950E	14	9	55	.5	10
25500N 27550E	14	11	56	.3	nd
25500N 27600E	18	15	63	.6	nd

DETECTION LIMIT

nd = none detected

1 2

-- = not analysed

1 0.1 5

is = insufficient sample



VANGEOCHEM LAB LIMITED

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REPORT NUMBER: B70909 GA

JOB NUMBER: B70909

ENERGEX MINERALS LTD.

PAGE 4 OF 4

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
25500N 27650E	14	9	51	.1	5
25500N 27700E	37	16	80	.2	10
25500N 27750E	17	10	55	.1	10
25500N 27800E	23	10	69	1.5	15
25500N 27850E	23	10	91	2.2	10
25500N 27900E	12	11	55	.5	nd
25500N 27950E	24	21	144	1.1	20
25500N 28000E	16	24	78	1.3	10
25500N 28050E	11	12	90	.5	15
25500N 28100E	23	10	66	.4	15
25500N 28150E	15	10	55	.2	5
25500N 28200E	12	9	47	.4	10
25500N 28250E	15	10	91	.2	10
25500N 28300E	10	8	44	.2	nd
25500N 28350E	23	5	56	.8	10
25500N 28400E	14	nd	31	.5	30
25500N 28450E	8	7	60	.1	nd
25500N 28500E	22	9	110	1.2	10
25500N 28550E	12	9	52	.3	nd
25500N 28600E	22	15	87	.5	10
25500N 28650E	12	9	45	.6	10
25500N 28700E	8	7	34	.2	nd
25500N 28750E	7	8	35	.3	nd
25500N 28800E	15	12	93	.8	10
25500N 28850E	13	8	71	.3	nd
25500N 28900E	13	10	70	.5	nd
25500N 28950E	12	8	42	.2	nd

DETECTION LIMIT
nd = none detected

1 2
-- = not analysed

1 0.1 5
is = insufficient sample

APPENDIX 4

BIBLIOGRAPHY

BIBLIOGRAPHY

- Carter, N. (1972); Toodoggone River Area and Chappelle, Geology, Exploration, and Mining in British Columbia 1971, p. 63-70.
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- Eccles, L. Sivertz, G. and Price, B.J. (1985): 1985 Final Report, Toodoggone Al Project; private report for Energex Minerals Ltd.
- Rodgers, T. (1972): Report on Geology and Geochemistry of the Met, San, and Tan Groups for Sumac Mines Ltd.: British Columbia Ministry of Energy, Mines and Petroleum Resources, Assessment Report 4060.
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- _____ (1982): Report on Geology and Geochemistry of the Al Claims; British Columbia Ministry of Energy, Mines and Petroleum Resources, Assessment Report 10709.
- _____ (1983): Report on Geology, Geochemistry, Trenching and Diamond Drilling on the Al Property; British Columbia Ministry of Energy, Mines and Petroleum Resources, Assessment Report 11157.
- Yoshida, H. and Kawasaki, K. (1973): Geophysical Report on I.P and Ground Magnetic Surveys on the Met, San and Tan Groups for Sullivan and Rodgers; British Columbia Ministry of Energy, Mines and Petroleum Resources, Assessment Report 4680.

APPENDIX 5

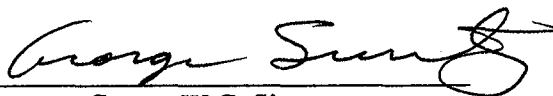
CERTIFICATE OF WRITER

CERTIFICATE

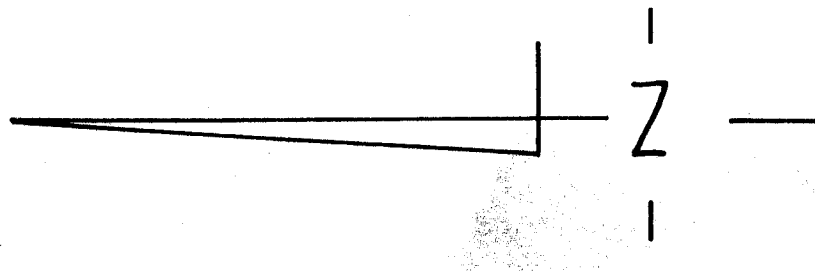
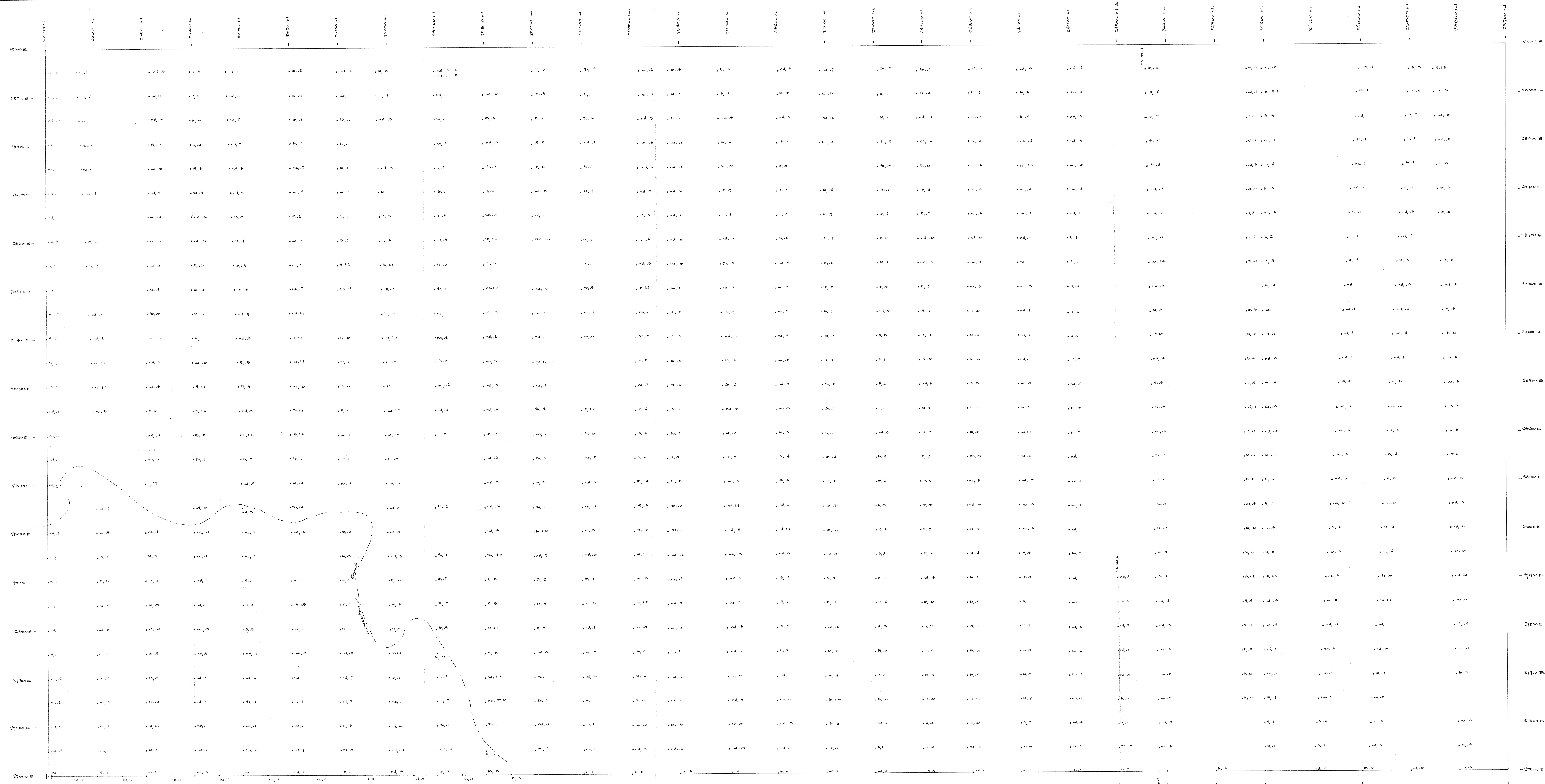
I, George W.G. Sivertz, residing at 6100 Twintree Place, Richmond, British Columbia, do hereby declare:

1. I am a geologist and have practiced my profession for thirteen years;
2. I received a Bachelor of Science (Honours) degree in Geology from the University of British Columbia in 1976;
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 the author of this report and was directly involved in the described work program on a full time basis.

DATED at Vancouver, British Columbia, the 28th day of October, 1987



George W.G. Sivertz



EXPLANATION

• 10,0 Sample Location
 Ag (ppm), Au (ppb)
 and (None detected)
 ~~~~~ Moonahin Creek

□ LCP (Legal corner point)

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**16,551**

|                                                                                                      |        |               |
|------------------------------------------------------------------------------------------------------|--------|---------------|
| Date:                                                                                                | By:    | Description:  |
| <b>REVISIONS</b>                                                                                     |        |               |
| <b>ENERGEX MINERALS LTD.</b>                                                                         |        |               |
| Toodoggone Project<br><b>STURDEE CLAIM</b><br>N.T.S. 24E/0E<br>Geochemical Plan<br>Au (ppb) Ag (ppm) |        |               |
| Scale 1:2500                                                                                         |        |               |
| Date (Sheet 16,551)                                                                                  | Author | FIGURE No. SA |
| Drawn by TELF                                                                                        | N.T.S. | INDEX No.     |

