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SUMMARY REPORT
ON THE
CHUCK 1, 2 and MOYEZ 4 CLAIMS

Located in the Toodoggone River Area
Liard Mining Division
British Columbia
NTS 94E/6W, 11W

at

57°31' North Latitude
127°25' West Longitude

- Prepared for -
MIRAMAR MINING CORP.

- Prepared by -
S.L. TODORUK, Geologist
C.K. IKONA, P.Eng.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,535

November, 1990

SUMMARY REPORT on the CHUCK 1, 2 and MOYEZ 4 CLAIMS

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1.0 INTRODUCTION

Between the period July 14 and 17, 1990 Pamicon Developments Ltd. carried out a small four day fly camp assessment work exploration program on Miramar Mining Corp.'s Chuck 1 & 2 and Moyez 4 claims in the Toodoggone area of northwestern British Columbia.

A two tent camp was established in the southwest corner of the Moyez 4 claim with daily traverses centered from this point.

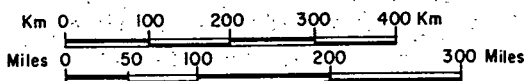
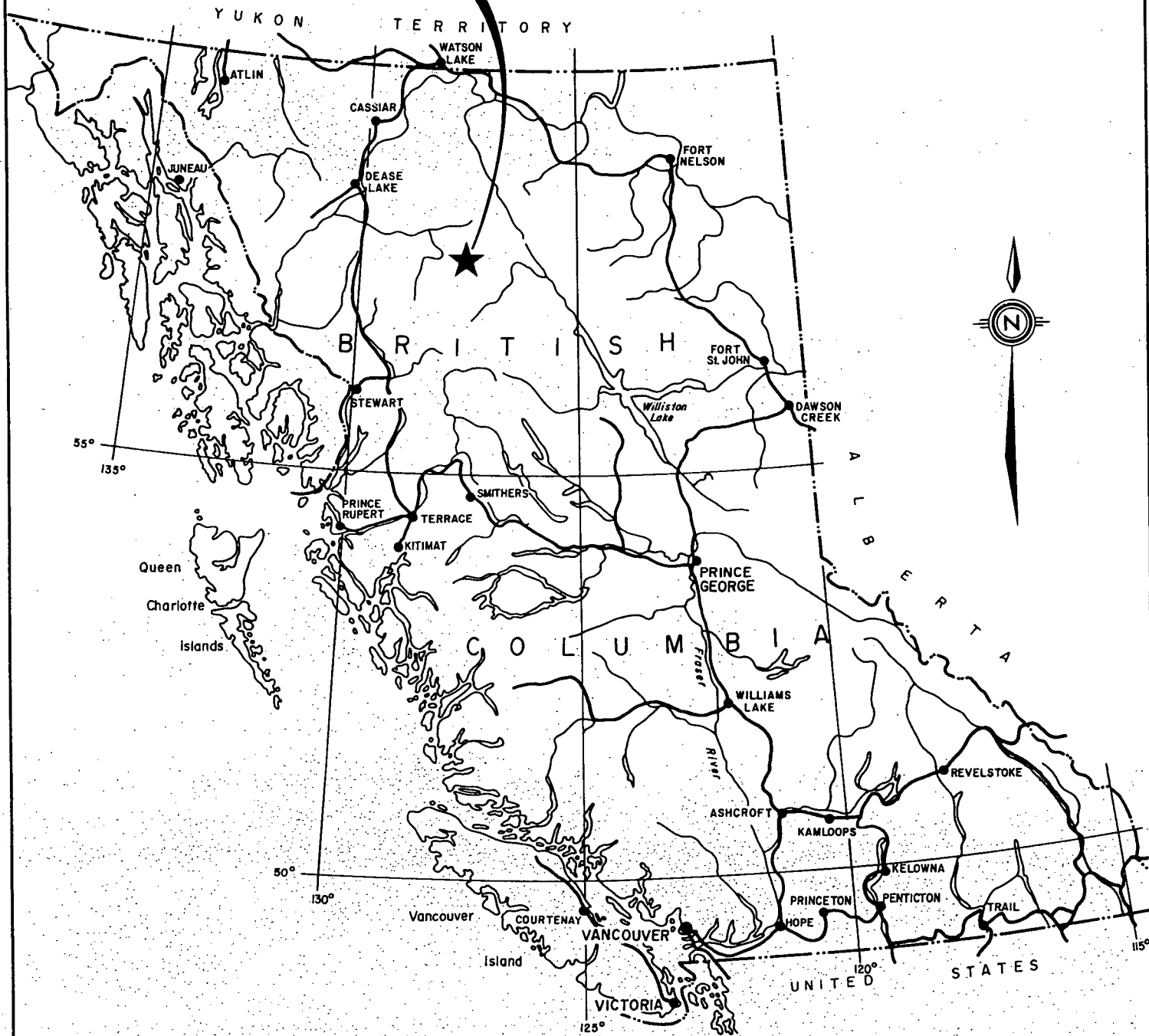
A total of 278 soil samples were collected along five different contour soil lines spread randomly across the property. Samples were analyzed for their gold and silver content as well as a host of base metal and trace elements which are commonly used as pathfinder signatures in searching for epithermal precious metal deposits such as Energex Minerals' Al deposit (located immediately south of Miramar's claims), Cheni Gold Mine's Lawyer deposit (25 km to the southwest) and International Shasta Resources Ltd.'s Shasta project (41 km to the southwest). Known reserves on these properties are 239,550 tonnes at 8.51 g/tonne Au, 941,000 tonnes at 7.2 g/tonne Au and 260 g/tonne Ag and 1,020,000 tonnes 5.7 g/tonne Au, respectively.

Although the author was not present on this program, he was involved in a program carried out on these claims in 1986 for Miramar (Todoruk and Ikona, 1986).

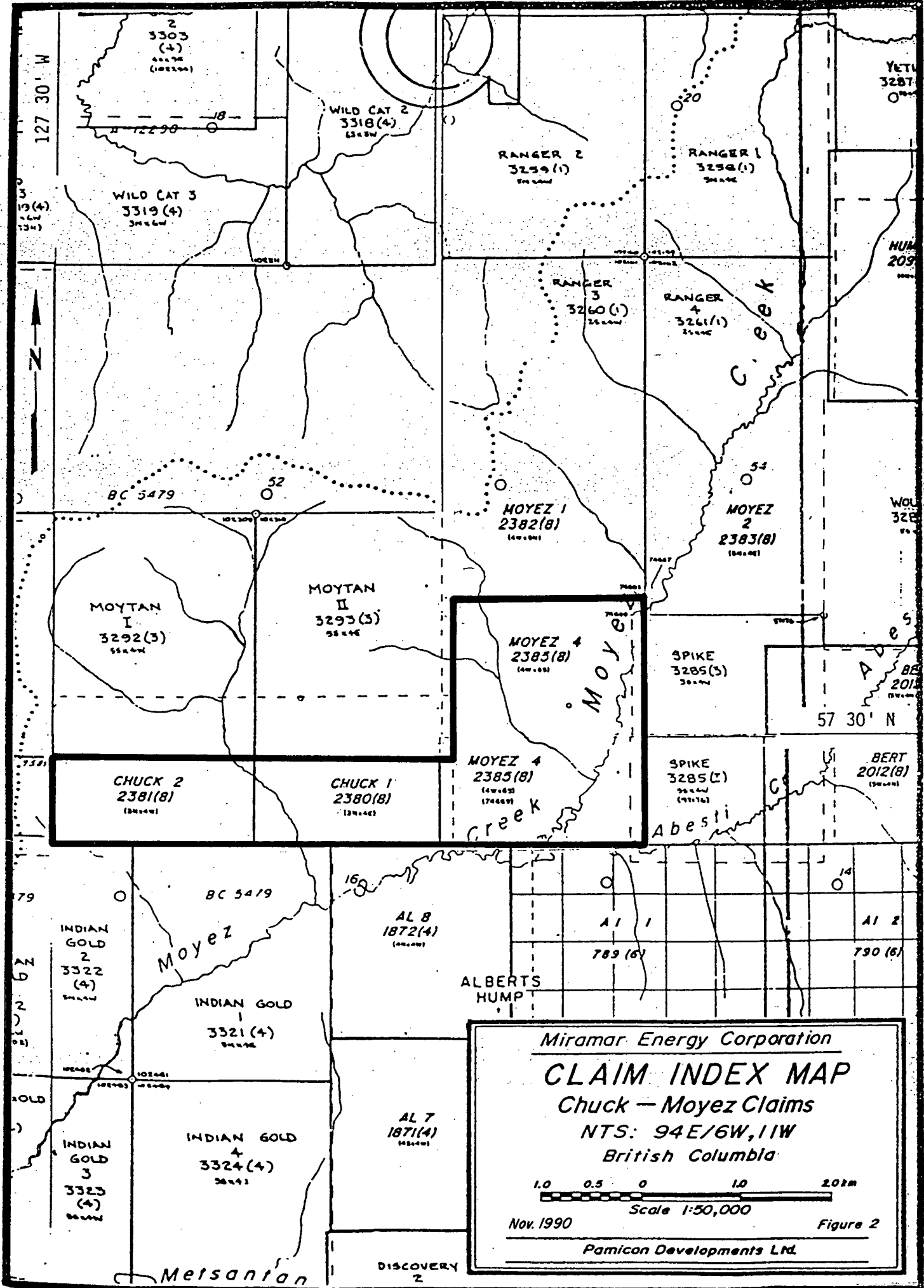
2.0 LIST OF CLAIMS

Examination of mineral titles registered with the British Columbia Ministry of Mines and Petroleum Resources shows the claims are held by Newmont Exploration of Canada Ltd. Separate documents indicate that Miramar Mining Corp. has fulfilled the requirements of purchase and are beneficial owners of a 90% interest in the property.

PROPERTY LOCATION



MIRAMAR ENERGY CORP.			
CK 1 & 2, MOYEZ 4 CLAIMS			
PROPERTY LOCATION MAP			
LIARD MINING DIVISION, B.C.			
PAMICON DEVELOPMENTS LTD.			
DRAWN. J.W.	N.T.S. 94E/6E/6W, IIV.	DATE. Nov. 1990	FIGURE. 1



The following table summarizes the pertinent claim data.

<u>Claim Name</u>	<u>Record No.</u>	<u>Record Date</u>	<u>No. of Units</u>	<u>Tag Number</u>
Chuck 1	2380	August 13, 1982	12	85151
Chuck 2	2381	August 13, 1982	12	85150
Moyez 4	2384	August 13, 1982	20	74669

3.0 LOCATION, ACCESS AND GEOGRAPHY

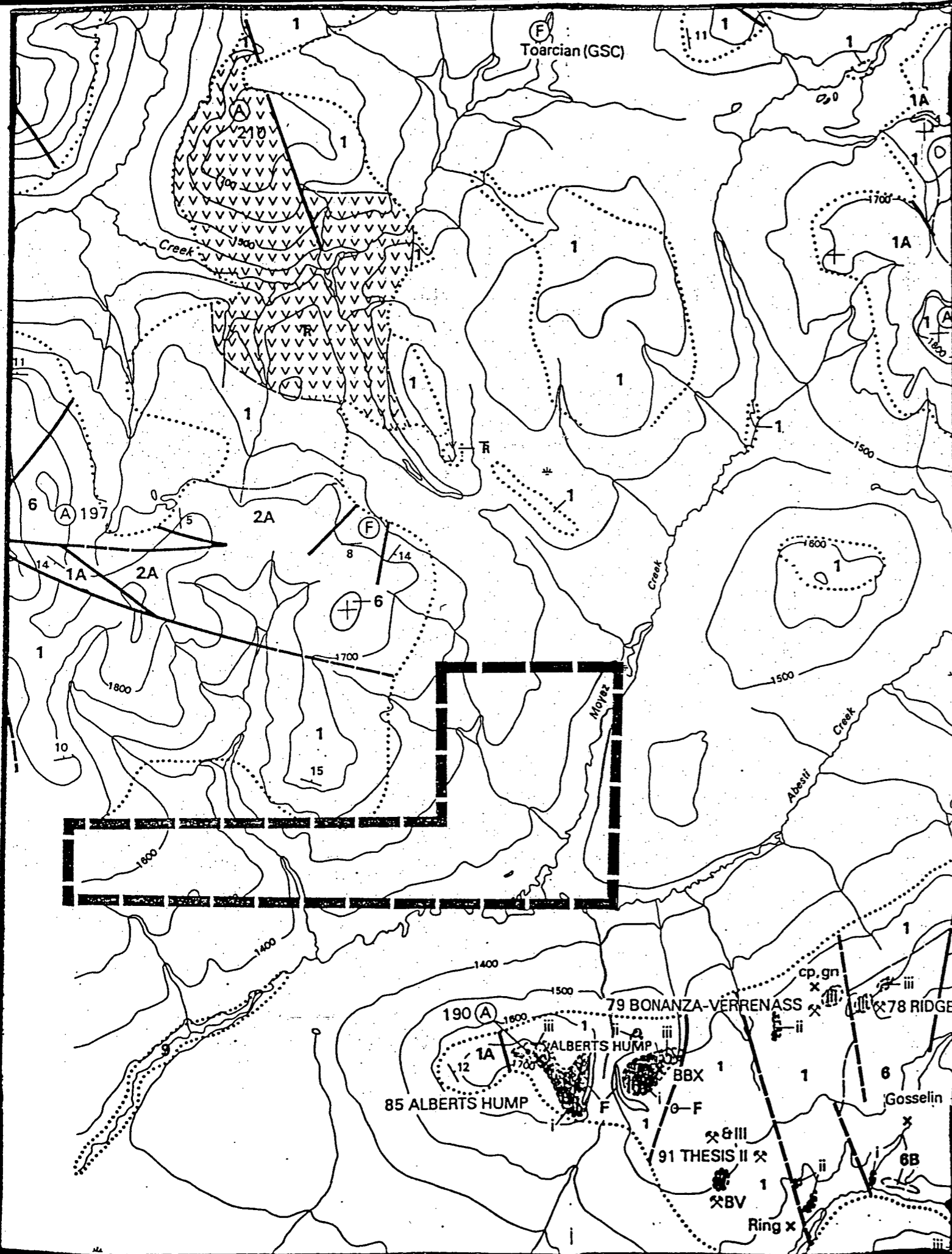
The claims lie on NTS Sheets 94E/6W and 94E/11W at approximately 57°31' north latitude, 127°25' west longitude.

The property is located in the Toodoggone River area of northern B.C. approximately 310 km north of Smithers, B.C. It lies along Moyez Creek, which flows into the Stikine River (Pacific drainage) 8 km to the west. Access is by charter aircraft for 273 km from Smithers to the Sturdee airstrip then a further 35 km north by helicopter to the property.

The property lies at the northern extremity of the Omineca Mountains and the southern limits of the Cassiar Mountains. The area is characterized by wide U-shaped, drift-filled valleys and deeply incised V-shaped upland valleys. In the vicinity of the Chuck-Moyez property the terrain generally consists of rolling hills and broad drift-filled valleys. The valleys are typically full of scrub brush and swamp foliage while the uplands are characterized by scrub timber grading into grassy alpine plateaus. Elevations on the property range from 1380 m to 1700 m. Water is plentiful on the claims, the highest dependable year round supply occurring at the 1600 metre level.

4.0 REGIONAL GEOLOGY

The Chuck-Moyez claims project lies along the eastern margins of the Intermontane Belt of the Canadian Cordillera within the Stikine Terrane. The Stikine



LEGEND

- QUATERNARY**
- PLEISTOCENE AND RECENT**
- UNCONSOLIDATED GLACIAL, FLUVIOGLACIAL, ALLUVIAL, AND COLLUVIAL DEPOSITS
- CRETACEOUS**
- UPPER CRETACEOUS**
- INSTITUT GROUP (MAYO CREEK FORMATION)
 - POLYTHETIC CONGLOMERATE, SANDSTONE, SHALE, CARBONACEOUS MUDSTONE
- JURASSIC**
- LOWER AND (?) MIDDLE JURASSIC**
- "TODODOGONE VOLCANICS" - (B) HAZELTON GROUP
 - UNWELDED: PREDOMINANTLY GREY, GREEN, PURPLE AND ORANGE-BROWN HORNBLENDE PLAGIOCLASE AND PLAGIOCLASE PHYRIC AGGLOMERATE PORPHYRY FLOWS, TUFFS, BRECCIA, SOME LAMAR, CONGLOMERATE, GREYWACKE, SANDSTONE, RARE PHYOLITE-PERLITE, INCLUDES SOME DYKES AND SILLS
- LOWER TO MIDDLE JURASSIC**
- "TODODOGONE VOLCANICS" (CARTER, 1972)
 - "GREY DACITE"
 - 8 DARK TO PALE GREY OR GREEN-QUARTZOSE SHOTTITE HORNBLENDE PLAGIOCLASE ASH FLOWS OF ANDESITIC AND RARELY DACITIC COMPOSITION, VARIABLY WELDED WITH LOCALLY WELLDVELOPED COMPACTION LAYERING; CONTAINS ABUNDANT GREY DACITE AND RARE GRANITIC CLASTS; OUTCROPS ARE COMMONLY BLOCKY AND STRONGLY JOINTED
 - 8A POLYTHETIC CONGLOMERATE WITH ABUNDANT TARKA AND GREY DACITE CLASTS IN A QUARTZOSE SANDSTONE MATRIX
 - 8B GREYWACKE, CONGLOMERATE DERIVED ENTIRELY FROM GREY DACITE
- TODODOGONE CRYSTAL ASH TUFFS AND FLOWS**
- 7 RECESSIVE, GREY, MAUVE, PURPLE QUARTZOSE PLAGIOCLASE CRYSTAL TUFF, LAPILLI TUFF, AND BRECCIA, WITH LESSER AGGLOMERATE, LAMAR, AND EPICLASTIC BEDS; INCLUDES SOME WELDED TUFFS AND PHYRIC HORNBLENDE FELDSPAR PORPHYRY FLOWS WHICH ARE LOCALLY COMMON; SOME MEMBERS CONTAIN NO QUARTZ, FINE WEATHERING WHERE LAMONITITE IS ABUNDANT
 - 7A EPICLASTIC AND BEDS - AMPHIB SANDSTONE, SILTSTONE, CONGLOMERATE, AND BLUE DEBRIS; CONTAINS SOME CRYSTAL TUFF
- TUFF PEAK FORMATION**
- 8 PALE PURPLE, GREY AND GREEN SHOTTITE AUGITE HORNBLENDE PLAGIOCLASE PORPHYRY FLOWS, SOME AUTOBRECCIATED FLOWS, MINOR SILLS AND FLUIDS, SOME CRYSTAL AND LAPILLI TUFF
 - 8A CONGLOMERATE OR LAMAR DERIVED FROM UNITS 8 AND 8B, WITH GRADED AND CROSSLAMINATED MUDSTONE AND SANDSTONE INTERBEDS; DEBRIS FLOWS, LAPILLI AND CRYSTAL TUFFS
 - 8B FLOWS SIMILAR TO UNIT 8 BUT CONTAINING SPARSE ORTHOCLASE MEGACRYSTS
- MAYO CREEK FORMATION**
- 6 PURPLE, LAVENDER, GREY, RARELY GREY-GREEN, "TROWDED" FINE TO MEDIUM-GRAINED PLAGIOCLASE PORPHYRY FLOWS; INCLUDES SOME LAPILLI TUFF, BRECCIA, AND MINOR EPICLASTIC BEDS
 - 6A INTRUSIVE DOME WITH AUTOBRECCIATED CARAPACE AND FLANKING BRECCIA
- MAFIC FLOW AND TUFF UNIT**
- 4 BASALT FLOWS - THIN BEDDED, PURPLE TO DARK GREY, COMMONLY EPITOPIED, FINE-GRAINED PHYRIC BASALT FLOWS AND TUFFS, INCLUDES SOME SILLS AND DYKES
 - 4A PURPLE TO MAUVE, MEDIUM-GRAINED PORPHYRY BASALT; LOCALLY MAUVE TO PINK, ZONALIZED WITH LAMONITITE, POSSIBLE INTRUSIVE (ACCOLITH)
 - 4B LAPILLI, CRYSTAL, AND ASH TUFF, WELL BEDDED, INCLUDES MINOR THINLY BEDDED SANDSTONE AND RARE CALCAREOUS SANDSTONE (MAYO) TOTALLY OR IN PART EQUIVALENT TO UNIT 7
 - 4C PHYRIC SHOTTITE HORNBLENDE PORPHYRY FLOWS WITH TRACES OF QUARTZ AND FELDSPAR; INTERBEDDED MINOR BRECCIA AND LAPILLI TUFF, TOTALLY OR IN PART EQUIVALENT TO UNIT 8

- SYMBOLS**
- MINERAL OCCURRENCE (GENERAL INVENTORY FILE NUMBER) _____ 43
 - MINERAL PROSPECT (GENERAL INVENTORY FILE NUMBER) _____ 24
 - EXPLORATION CAMP _____ 0
 - PLACER WORKINGS _____ 1
 - PAVE BOUNDARY _____ 2
 - ROAD _____ 3
 - MINOR OUTCROP AREAS _____ 4
 - RIAL (OBSERVED, UNPLANNED) _____ 5
 - TURKEY OR REVERSE RIAL (OBSERVED, UNPLANNED) _____ 6
 - SECTIONS CONTACT (DIPPED, UNDIPPED) _____ 7
 - SECTIONS, LAYERS, FOLIATION (PROFESSORIAL, INCLINED, VERTICAL) _____ 8
 - POLE AXIS _____ 9
 - POLE LOCALITY (PLANT DESIGN) _____ 10
 - BAROMETRIC WIRE SAMPLE SITE, AGE IN Mts _____ 11
 - VOLCANIC VEIN _____ 12

- JURASSIC (CONTINUED)**
- LOWER TO MIDDLE JURASSIC (CONTINUED)**
- "TODODOGONE VOLCANICS" (CARTER, 1972) (CONTINUED)
- LAPILLI - MITSUMIWA QUARTZOSE ANDERITE**
- 3 GREEN TO GREY QUARTZOSE PHYRIC (15 SHOTTITE HORNBLENDE PLAGIOCLASE PORPHYRY FLOWS AND TUFFS, QUARTZ CONTENT RANGES FROM NEGLIGIBLE TO ABOUT 3 PERCENT IN THE NORTH FLOW; THE CONGLOMERATE WITH LOCAL FLOW BASALT, LAPILLI TUFF, AND RARE WELDED TUFF UNITS; TOWARD THE SOUTH, ASH FLOWS ARE COMMON, INCLUDING RARE SURGE DEPOSITS, THE UNIT CONTAINS EXTENSIVE ZONES OF EPITOPIED, PHYRIC ROCK WITH CHARACTERISTIC SAND, FINE, AND ORANGE PLAGIOCLASE CRYSTALS
 - MOYEZ CREEK VOLCANICLASTICS
 - 2 CONGLOMERATE WITH SOME GRANITIC CLASTS, GRADED, CROSS-BEDDED GREYWACKE, WELL BEDDED CRYSTAL TUFF, EPICLASTIC SEDIMENT, LOCAL LAMAR, RARE CALCAREOUS SANDSTONE, RARE TARKA LAMAR, IN PART OR TOTALLY EQUIVALENT TO UNIT 8A
 - 2A CRYSTAL TUFFS IN THIN, WELL LAYERED UNITS; SOME EPICLASTIC SANDSTONE AND MUDSTONE, RARE PLANT FRAGMENTS IN SOME BEDS; MINOR LAPILLI TUFF
- ADDOGARDIO CREEK FORMATION**
- 1 PALE REDDISH GREY TO DARK RED-BROWN QUARTZOSE SHOTTITE HORNBLENDE PHYRIC ASH FLOWS; THE ROCKS CONTAIN MINOR SANDSTONE AND RARE AUGITE, WELDING IS WIDESPREAD AND RARE FROM INCLINED TO ELITIC, LOCALLY CHANGE TO BROWN VITROPHYRIC CLASTS ARE COMMON, INCLUDES LAPILLI TUFF AND BRECCIA UNITS AS WELL AS MINOR LAYERED GROUND SURGE DEPOSITS
 - 1A CRYSTAL ASH TUFF, LAPILLI TUFF AND RARE AGGLOMERATE WITH INTERSPERSED EPICLASTIC BEDS, TUFFACEOUS SEDIMENTS AND MINOR CONGLOMERATE THAT LOCALLY CONTAINS GRANITIC CLASTS; MINOR HORNBLENDE PLAGIOCLASE PHYRIC FLOWS FORMING SINGLE OR THIN COMPOSITE FLOW UNITS
 - 1B QUARTZOSE PLAGIOCLASE PORPHYRY - JOINTED, DDMAL INTRUSION (10) OF HOMOGENEOUS APPEARING GREY TO GREEN CHLORITIZED AND EPITOPIED-ALTERED ROCK CONTAINING ABUNDANT INCLUSIONS OF TARKA VOLCANICS AND RARE METAMORPHIC ROCK CLASTS
- TRIASSIC**
- UPPER TRIASSIC**
- TARKA GROUP**
- 11 DARK GREEN AUGITE PORPHYRY BASALT FLOWS AND BRECCIAS WITH LESSER FINE-GRAINED ANDERITE TO BASALT FLOWS AND MINOR INTERBEDDED SANDSTONE, TUFFACEOUS SEDIMENTS, AND CHERT; CONTAINS LIMESTONE LENSES THAT MAY BE PART OF THE "ASITKA GROUP"
- PALEOZOIC**
- PERMIAN**
- 12 ARCTIA GROUP
- FREDDOMAN LIMESTONE (INCLUDING MARBLE AND MINOR SILLS WITH SOME ANGLITE, BLACK SHALE, AND CHERT UNITS COMPOSED OF LIMESTONE, CHERT, ANGLITE, AND BASALT) (IN PART OR TOTALLY TARKA GROUP)**
- INTRUSIVE ROCKS**
- JURASSIC**
- LOWER JURASSIC (DYKES, SILLS, AND SMALL PLUGS)**
- A BASALT
 - B AUGITE HORNBLENDE PORPHYRY - BASALTIC STOCK, DDMAL INTRUSION (OR TARKA INLET)
 - C SHOTTITE HORNBLENDE DIORITE/GABBRO
 - D PHYRIC PLAGIOCLASE PORPHYRY
- LOWER TO MIDDLE JURASSIC (DYKES AND STOCKS)**
- 13 QUARTZ MONZONITE, GRANODIORITE - MEGACRYSTIC IN PART; MINOR SYENITE OR QUARTZOSE SYENITE ALONG CONTACTS
 - 14 GRANODIORITE, QUARTZ DIORITE - MEDIUM GRAINED, PORPHYRY, FOLIATED IN PART
 - 15 FELDSPAR PORPHYRY HORNBLENDE FELDSPAR PORPHYRY - DYKES AND PLUGS; RARE QUARTZ FELDSPAR PORPHYRY

after : L. J. DIAKOW, A. PANTELEYEV, AND T. G. SCHROETER, 1985

OSCAR RESOURCES LTD.
REGIONAL GEOLOGY MAP
Chuck-Moyez Claims
NTS: 94E/6W, 11W
British Columbia

Scale 1:50,000

November, 1990 Figure 3
Pamcon Developments Ltd.

Terrane is an allochthonous assemblage of Paleozoic to Jurassic island arc volcanic rocks and associated basinal sediments. Paleozoic mafic volcanics, marine sediments and Permian limestones are the oldest units exposed in terrane belonging to the Stikine assemblage. Stuhini Group tholeiitic arc rocks and Hazelton Group Lower to Middle Jurassic arc rocks overlie the Stikine assemblage. Post-accretionary sediments of the Middle to Upper Jurassic Bowser assemblage and the Cretaceous Sustut Group cover the accretionary collection of arc-related volcanic rocks.

Of interest to the Chuck-Moyez project are the Hazelton Group volcanics which host several important epithermal gold-silver deposits. In the Toodoggone River area, the Hazelton Group volcanics have been divided into a western felsic facies termed the Toodoggone volcanics (Carter, 1972) and an eastern facies chiefly of intermediate volcanic composition. Detailed mapping by Diakow (1985) has defined the Toodoggone volcanics as a predominantly calc-alkaline andesitic to dacitic subaerial succession of volcanic rocks which represent a distinctive silica-rich facies of the Hazelton Group.

Clark and Williams-Jones (1987, 1988) have proposed two depositional stages for Toodoggone volcanism. They indicate that all known Toodoggone epithermal gold-silver deposits are restricted to the Toodoggone volcanics underlying the youngest recognizable member of the Toodoggone volcanics - the Saunders Formation. They suggest that area mineralization occurred during the waning stages of deposition of the Toodoggone volcanics prior to formation of the Saunders Formation grey dacite or during a hiatus of activity between these periods.

5.0 PROPERTY GEOLOGY

Property geological mapping on the Chuck-Moyez claims has been attempted in the early 1980s by personnel of Newmont Explorations of Canada and again in

1986 by Yeager. However, due to an extreme lack of outcrop exposure, geological understanding of the property is largely drawn from government geological interpretations.

British Columbia Ministry of Mines mapping indicates that the property is underlain by the Adoogatcho Creek Formation described in the 1985 preliminary geologic map on the Toodoggone area as "pale reddish grey to dark red-brown quartzose biotite hornblende phyrlic ash flows. The rocks contain minor sanidine and rare augite. Welding is widespread and ranges from incipient to eutoxic; locally orange to brown vitrophyric clasts are common. Includes lapilli tuff and breccia units as well as minor layered ground surge deposits."

Mapping by Yeager did indicate that at least a 200 metre thick section of the Adoogatcho Creek Formation is present on the property.

6.0 MINERALIZATION AND ALTERATION

No significant mineralization has been found on the Chuck-Moyez project to date. However, from work done by Yeager (1986) near the common northern boundary of the Chuck 1 and Chuck 2 claims, several areas of silicification, hematization and alunitization occur which may be indicative of an epithermal alteration cap sometimes found overlying gold-silver deposits of this type. Immediately south of the property, on the south side of Moyez Creek, Energex Minerals Ltd. has identified a similar silicified, alunite, hematite cap which they to date have not yet been able to fully explain but do believe is possibly an expression of an epithermal gold-silver system.

7.0 GEOCHEMISTRY AND EXPLORATION POTENTIAL

A total of 278 soil samples were collected from five separate contour traverse lines on the Chuck 1 & 2 and Moyez claims (Figures 4, 5 and 6). Stations were

spaced every 25 metres. Samples were collected from soil holes dug to depths between 5 and 70 cm and placed in kraft paper bags. The samples were then sent to Vangeochem Labs in Vancouver, B.C. and analyzed for gold and ICP 32-element analysis.

Gold and silver values obtained from the 1990 survey are generally considered to be low with only two noticeably high values. At L1440/19+50 a value of 440 ppb Au, 0.2 ppm Ag and 233 ppb Ba is present while at L1550/9+25 a value of 60 ppb Au, 0.1 ppb Ag and 165 ppb Ba was obtained. Along L1550 near the 60 ppb Au anomaly, six other soil stations between 7+75 and 10+00 had values of 40 ppb Au with barium values ranging from 175 to 208 ppm Ba.

Values of 40 ppb Au occurring as spot highs or small two station anomalies were also obtained on all other contour soil lines run but little significance is attached to them at this time.

One noticeable trend in the ICP data is the apparent anomalously high nature of all soils in barium content. Only one value out of 278 is below 100 ppm Ba. Forty-two values exceeded 500 ppm Ba and one greater than 1,000 ppm Ba. On the Energex A1 deposit immediately south of the Chuck/Moyez property, a strong correlation exists between gold and barium geochemistry.

8.0 CONCLUSIONS

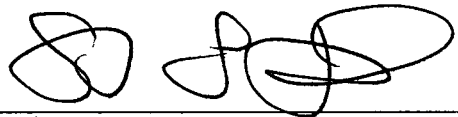
Between the period July 14 to 17, 1990 a small assessment program consisting of contour soil sampling was carried out on Miramar Mining Corp.'s Chuck 1 & 2 and Moyez 4 mineral claims in the Toodoggone area of northwestern British Columbia.

A total of 278 soil samples were collected along five traverse lines at different elevations around the property. Two areas produced slightly

anomalous to anomalous values in gold at L1440/19+50 (440 ppb Au) and L1550/9+25 (60 ppb Au).

All but one soil sample taken had values greater than 100 ppm barium, with 42 greater than 500 ppm Ba and 1 greater than 1,000 ppm Ba.

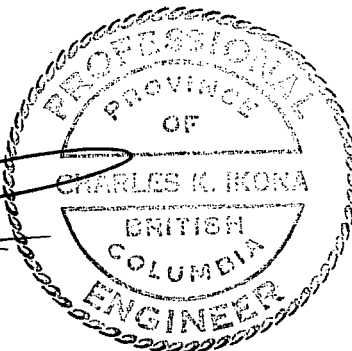
Respectfully submitted,



Steve L. Todoruk, Geologist



Charles K. Ikona, P.Eng.



APPENDIX I

BIBLIOGRAPHY

BIBLIOGRAPHY

- Eccles, Louise K. et al. (1985): Technical Report on the Toodoggone Properties, Omineca & Liard Mining Division, British Columbia prepared for Energex Minerals Ltd.
- Marsden, H. and J.M. Moore (1989): Stratigraphic and Structural Setting of the Shasta Ag-Au Deposit (94E), B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1989, Paper 1990-1.
- Thiersch, P. and A.E. Williams-Jones (1989): Paragenesis and Ore Controls of the Shasta Ag-Au Deposits, Toodoggone River Area, British Columbia (94E), MEMPR, Geological Fieldwork 1989, Paper 1990-1.
- Todoruk, S.L. and C.K. Ikona (1987): Summary Report on the Chuck 1, 2 and Moyez 4 Claims.

APPENDIX II

COST STATEMENT

COST STATEMENT
MIRAMAR MINING CORP.
CHUCK AND MOYEZ CLAIMS
JULY 14 TO JULY 30, 1990

WAGES

S. Todoruk (Geologist) - 1 day @ \$400.00	\$ 400.00	
R. Darney (Geologist) - .5 days @ \$400.00	200.00	
J. Anderson (Prospector) - 4 days @ \$300.00	1,200.00	
T. Montgomery (Sampler) - 4 days @ \$225.00	900.00	
P. Hoffman (Sampler) - 4 days @ \$225.00	<u>900.00</u>	
		\$ 3,600.00

CAMP AND EQUIPMENT EXPENSES

Room and Board - 13.5 days @ \$125.00	\$1,687.50	
Field Equipment and Supplies	<u>913.56</u>	
		2,601.06

GENERAL EXPENSES

Travel, Accommodation and Airfare	\$ 270.00	
Fixed Wing (Central Mountain Air)	2,880.50	
Helicopter (Northern Mountain Helicopters)	2,004.59	
Assays (Vangeochem Labs)	4,170.00	
Report	2,000.00	
Project Supervision	<u>1,277.11</u>	
		<u>12,602.20</u>

TOTAL EXPENDITURES THIS PROJECT		<u>\$18,803.26</u>
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APPENDIX III

ANALYTICAL PROCEDURE

November 02, 1990

TO: Mr. Steve Todoruk
PAMICON DEVELOPMENTS LTD.
711 - 675 W. Hastings St.
Vancouver, BC V6B 1N2

FROM: VANGEOCHEM LAB LIMITED
1630 Pandora Street
Vancouver, BC V5L 1L6

SUBJECT: Analytical procedure used to determine hot acid soluble for 25 element scan by Inductively Coupled Plasma Spectrophotometry 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 digested with a 5 ml solution of HCl:HNO₃:H₂O in the ratio of 3:1:2 in a 95 degree Celsius water bath for 90 minutes.
- (c) The digested samples are then removed from the bath and bulked up to 10 ml total volume with demineralized water and thoroughly mixed.

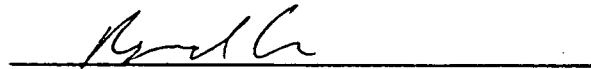
-2-

3. Method of Analyses

The ICP analyses elements were determined by using a Jarrell-Ash ICAP model 9000 directly reading the spectrophotometric emissions. All major matrix and trace elements are interelement corrected. All data are subsequently stored onto diskettes.

4. Analysts

The analyses were supervised or determined by Mr. Conway Chun or Mr. Raymond Chan and his laboratory staff.



Raymond Chan
VANGEOCHEM LAB LIMITED

NOTE: Samples containing barium in the form of barium carbonates are detectable by our ICP methods, since barium carbonate readily dissolves in HCl. However, barium is in the form of barium sulphate precipitate. Barium in the presence of sulphides, sulfur and sulphates precipitate (sulphides and sulphur oxidize to sulphates in oxidizing acids). Therefore, barium cannot normally be quantitatively analyzed by ICP. A barium assay is the best way to determine the amount of barium in a sample.

APPENDIX IV

SOIL GEOCHEMISTRY FORMS

**PAMICON
DEVELOPMENTS LIMITED**

Geochemical Data Sheet - SOIL SAMPLING

Sampler John Anderson
Date July 15 1990

Project Miramar
Property Chuck / Moyez

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS		
				Colour	Texture	Drainage				As ppm	Ag ppm	Ba ppm
000 SW	L-1420m	25	B	LB	Dirt		2%	Back Brush		nd	0.7	131
025	"	35	"	LB	"		2%	"		20	0.2	202
050	"	30	"	LB	"		3%	"		20	0.1	225
075	"									20	0.3	378
100 SW	"	20	B	LB	"		5%	"		nd	<0.1	199
125	"	20	"	LB	"		2%	"		40	<0.1	122
150	"	30	"	LB	Sandy		Flat	"		20	0.3	138
175	"	30	B	LB	Dirt		2%	"		20	0.2	244
200 SW	"	40	"	LB	"		2%	"		nd	0.2	182
225	"	40	"	LB	"		2%	"		nd	0.5	214
250	"	30	"	LB	"		5%	"		nd	<0.1	206
275	"	30	B	LB	"		5%	"		30	<0.1	238
300 SW	"	35	B	LB	Sandy		2%	"		10	0.3	732
325	"	30	"	Black	Muddy		2%	"		nd	1.3	807
350	"	35	"	LB	"		2%	"		nd	0.6	721
375	"	40	"	DB	Rocky		2%	"		nd	0.9	815
400 SW	"	30	"	LB	Dirt		2%	"		20	0.3	391
425	"	35	"	NS	Sandy			"				
450	"	40	"	LB	Muddy		2	"		nd	1.2	929
475	"	25	"	LB	"		<2%	"		nd	0.7	757
500 SW	L1420m	20	"	LB	"		2%	Timber		nd	0.2	335

Sampler John Anderson
Date July 15/90

Project Miramar
Property Chuck/Moyez

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS		
				Colour	Texture	Drainage				Au ppb	Ag ppm	Ba ppm
525 SW	L-1420m	25cm	B	DB	Muddy		2%	Timber		nd	0.8	888
550	"	25	B	DB	"		2%	"		nd	1.6	903
575	"	40	B	DB	"		41%	"		nd	1.2	860
600 SW	"	30	B	LB	"		2%	"		nd	1.0	825
625	"	30	B	TAN	"		2%	"		nd	0.2	775
650	"	30	B	LB	Dirt		2%	"		20	0.3	834
675	"	20	B	Brown	"		3%	Back Brush		20	<0.1	775
700 SW	"	20	B	B	"		3%	"		20	1.2	355
725	"	25	B	B	"		3%	"		nd	1.2	844
750	"	30cm	C	Black	Mud		2%	"		nd	1.0	553
775	"	30	B	Black	"		2%	"		nd	1.3	554
800 SW	"	30	B	Black	"		2%	Timber		nd	1.5	527
825	"	30	B	Black	"		2%	"		nd	0.8	374
850	"	25	B	LB	Dirt		3%	"		40	0.5	528
875	"	30cm	B	Brown	Mud		1%	"		nd	0.6	424
900 SW	"	30	B	B	"		1%	"		nd	0.7	532
925	"	30	B	B	"		1%	"		nd	0.5	665
950	"	25	B	B	"		1%	"		nd	0.7	738
975	"	25	B	B	"		2%	"		nd	0.8	658
1000 SW	L 1420 m.	30	B	B	"		2%	"		40	0.6	669

PAMIC DEVELOPMENTS LIMITED

Geochemical Data Sheet - SOIL SAMPLING

Sampler PAUL HOFFMAN
Date JULY 15 / 90

Project MIRMAR
Property Chuck / Meyer

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS					
				Colour	Texture	Drainage				Au ppb	Ag ppm	Ba ppm			
0 SW	LH40	15	B	MED BR	SAND		—	BUCK BRUSH		20	6.5	291			
25	"	30	B	DARK BR	SAND		—			40	0.3	257			
50	"	15	B	MED BR	SAND		—			20	<0.1	259			
75	"	15	B	LT BR	SAND		—			40	<0.1	262			
100	"	20	B	MED BR	COARSE SAND		—			40	<0.1	171			
125 SW	"	15	B	MED BR			—			20	<0.1	204			
150	"	20	B	MED BR			—			nd	<0.1	368			
175	"	30	B	MED BR	COARSE SAND		—			nd	<0.1	341			
200	"	15	B	LT BR	SAND FINE		—			20	<0.1	356			
225	"	15	B	LT BR			—			nd	<0.1	360			
250 SW	"	15	B	DARK BR			—			nd	0.3	396			
275	"	15	B	MED BR			—			nd	0.1	247			
300	"	15	B				—			nd	<0.1	194			
325	"	15	B				—			40	<0.1	278			
350 SW	"	30	B				—			nd	<0.1	452			
375	"	25	B	MED BR			—			nd	<0.1	374			
400	"	15	B	LT BR			—			nd	<0.1	256			
425	"	15	B	LT BR			—			40	<0.1	380			
450	"	20	B	MED BR			—			40	0.3	359			
475 SW	"	15	B	LT BR	SAND FINE		—	BUCK BRUSH		20	<0.1	314			

PAMIC DEVELOPMENTS LIMITED

Geochemical Data S. - SOIL SAMPLING

Sampler PAUL HOFFMAN
Date JULY 15/90

Project MIRMAR
Property Chuck/Moyez

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS		
				Colour	Texture	Drainage				Au ppb	Ag ppm	Cu ppm
500 SW	L1440	20	B	LT BR	COARSE SAND		0-1	BUCK BRUSH		20	<0.1	507
525	"	20	B	MED BR	SAND COARSE		-	"		20	0.2	353
550	"	15	B	"	SAND FINE		-	"		nd	0.8	548
575	"	15	B	"	"		0-1	"		nd	0.4	271
600 SW	"	20	B	"	COARSE SAND		-	"		nd	0.4	312
625	"	25	B	"	"		0-1	"		nd	0.8	337
650	"	15	B	"	CLAY		"	"		40	0.2	664
675	"	15	B	"	"		"	"		nd	0.5	323
700 SW	"	75	B	"	"		"	"		nd	<0.1	258
725	"	15	B	"	"		"	"		20	0.4	297
750	"	30	B	MED BR	CLAY		0-1	"		nd	<0.1	306
775	"	30	B	"	"		"	"		nd	0.4	296
800 SW	"	NO	SAMPLE				"	"	SWAMPY			
825	"	30	B	MED BROWN	CLAY		"	"	"	nd	0.7	236
850	"	NO	SAMPLE				"	"	SWAMPY			
875 SW	"	NO	SAMPLE				"	"	"			
900	"	30	B	GRAY BR	CLAY		"	"		nd	<0.1	263
925	"	15	B	LT BR	CLAY		"	"		nd	<0.1	241
950	"	15	B	LT BR	SAND		0-1	"		nd	<0.1	209
975 SW	"	15	B	LT BR	"					nd	<0.1	217

PAMIC
DEVELOPMENTS LIMITED

Geochemical Data Sheet 1 - SOIL SAMPLING

Sampler PAUL HOFFMAN
Date JULY 15/90

Project MIRMAR
Property Chuck/Moyez

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS					
				Colour	Texture	Drainage				Au ppm	Ag ppm	Ba ppm			
1000 SW	L1440	30	B	GRAY	SAND		2	BUCK BRUSH		nd	<0.1	228			
1025	"	15	B	MED BR	CLAY		2	"		40	0.2	209			
1050	"	15	B	"	CLAY SAND		1	"		nd	0.1	226			
1075	"	15	B	"	CLAY		2	"		nd	<0.1	251			
1100 SW	"	15	B	"	"		2	"		nd	<0.1	151			
1125	"	25	B	MED BR	"		2	"		nd	0.2	238			
1150	"	15	B	"	CLAY		2	"		nd	0.1	205			
1175	"	20	B	"	"		3	BUCK BRUSH		nd	0.1	175			
1200 SW	"	15	B	"	"		3	"		nd	<0.1	189			
1225	"	30	B	MED BR	"		3	"		20	0.2	247			
1250	"	20	B	DARK BR	CLAY		2	"		20	0.4	317			
1275	"	15	B	LT BR	SAND		2	"		20	0.1	174			
1300 SW	"	15	B	"	"		2	"		nd	0.2	190			
1325	"	25	B	LT BR	CLAY COARSE		2	BUCK BRUSH		nd	0.3	293			
1350	"	25	B	MED BR	CLAY		3	"		20	0.3	343			
1375	"	15	B	"	"		2	"		20	0.1	275			
1400 SW	"	15	B	LT BR	SAND		2	"		20	<0.1	213			
1425	"	15	B	MED BR	CLAY		2	"		nd	0.1	269			
1450	"	15	B	"	SAND		2	"		nd	<0.1	155			
1475 SW	"	20	B	LT BR	"		4	BUCK BRUSH		nd	<0.1	280			

PAMIC DEVELOPMENTS LIMITED

Geochemical Data S. 1 - SOIL SAMPLING

Sampler PAUL HOFFMAN
Date JULY 15/90

Project MIRMAR
Property Chuck/Mayer

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS					
				Colour	Texture	Drainage				Au ppm	Ag ppm	Bs ppm			
1500SW	L1440	20	B	LT BR	CLAY		2	BUCK BRUSH		nd	<0.1	255			
1525	"	15	B	MED BR	SAND		2	"		nd	0.5	302			
1550	"	15	B	DARK BR	"		2	"		nd	0.4	225			
1575	"	15	B	"	CLAY		2	"		nd	<0.1	198			
1600SW	"	20	B	MED BR	CLAY SAND		2	"		nd	0.2	274			
1625	"	15	B	LT BR	SAND		2	"		20	<0.1	153			
1650	"	20	B	"	"		4	"		40	<0.1	175			
1675	"	15	B	"	"		5	"		nd	0.1	151			
1700SW	"	20	B	DARK BR	CLAY		3	"		nd	0.2	253			
1725	"	15	B	MED BR	"		4	BUCK BRUSH		nd	0.2	230			
1750	"	15	B	"	SAND		3	"		nd	<0.1	166			
1775	"	15	B	"	CLAY		3	"		nd	0.1	228			
1800SW	"	20	B	"	SAND		5	"		40	0.3	209			
1825	"	25	B	LT BR	"		3	"		nd	0.2	166			
1850	"	25	B	"	CLAY		2	"		nd	0.1	213			
1875	"	25	B	MED BR	"		2	"		nd	0.1	245			
1900SW	"	20	B	"	"		2	"		nd	0.1	213			
1925	"	20	B	"	"		2	"		nd	0.2	233			
1950	"	20	B	DARK BR	"		2	"		440	0.5	320			
1975	L1440	20	B	"	SAND COARSE		2	BUCK BRUSH		20	0.4	232			

PAMIC DEVELOPMENTS LIMITED

Geochemical Data Sheet - SOIL SAMPLING

Sampler TODD MONTGOMERY
Date JULY 15

Project MILMAN
Property Chuck/Moyer

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS					
				Colour	Texture	Drainage				A ₄ ppm	A ₅ ppm	B ₅ ppm			
0 SW	L-1480	20	A	BLACK	CLAY		φ	BUCK BRUSH		20	0.3	540			
25	"	30	A	DARK BR	HUMUS		0	"		nd	<0.1	324			
50	"	35	B	GREY	FINE		0	"		nd	0.4	751			
75	"	35	B	GREY BL	FINE MED		1-2	"		nd	0.6	703			
100 SW	"	35	A	BR	HUMUS		φ-2	"		20	0.9	726			
125	"	36	B	GREY	FINE		0-1	"		20	0.7	>1000			
150	"	35	B	"	"		1	"		nd	0.2	872			
175	"	35	B	"	"		2	"		nd	0.1	672			
200 SW	"	30	B	BROWN	COARSE		5	"		20	<0.1	273			
225	"	30	B	"	"		7	"		20	<0.1	202			
250	"	30	B	"	"		7	"		20	0.1	233			
275	"	40	B	"	"		4	"		20	0.2	375			
300 SW	"	30	B	"	COARSE SAND		2	"		nd	0.2	178			
325	"	25	B	"	COARSE		3	"		nd	<0.1	251			
350	"	35	B	BROWN	SAND COARSE		2	"		nd	<0.1	179			
375	"	30	B	RED BR	COARSE		3	"		nd	<0.1	189			
400 SW	"	36	B	GREY	SANDY		φ-2	"		nd	<0.1	181			
425	"	25	B	"	FINE SAND		0-2	"		nd	<0.1	202			
450	"	10	B	"	"		0-2	"		nd	<0.1	220			
475 SW	L1480	5	A-B	GREY	"		2	BUCK BRUSH		nd	<0.1	218			

PAMIC DEVELOPMENTS LIMITED

Geochemical Data Sheet - SOIL SAMPLING

Sampler TODD MONTGOMERY
Date JULY 15/90

Project MIRMAR
Property Chuck/Mayer

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS					
				Colour	Texture	Drainage				Au ppb	Ag ppm	Bs ppm			
500SW	L1480	5	A+B	GREY	FINE SAND		2	BUCK BRUSH		20	<0.1	186			
525	"	35	B	BROWN	MED		0-1	"		20	<0.1	169			
550	"	30	B	"	SANDY		1	"		20	<0.1	167			
575	"	20	B	"	"		2	"		nd	<0.1	156			
600SW	"	20	B	"	"		4	"		nd	<0.1	183			
625	"	25	B	RED BR	FINE		15	"		nd	<0.1	180			
650	"	25	B	BROWN	"		20	"		40	<0.1	166			
675	"	30	B	RED	COARSE		4	"		20	<0.1	242			
700SW	"	30	B	RED	SAND		10	"		20	<0.1	178			
725	"	20	B	GREY	FINE		8	"		nd	<0.1	176			
750	"	25	B	RED	COARSE		10	"		nd	<0.1	370			
775	"	30	B	GREY	SAND		4	"		nd	<0.1	164			
800SW	"	30	B	BROWN	COARSE		4	"		nd	0.1	180			
825	"	25	B	GREY	CLAY		3	"		20	0.1	179			
850	"	35	B	"	"		3	"		20	0.1	242			
875	"	20	B	"	"		3-4	"		20	0.2	181			
900SW	"	40	A	BROWN	HUMUS		2	"		nd	0.4	349			
925	"	40	A	"	"		2	"		nd	1.6	373			
950	"	40	B	GREY	CLAY		2	"		nd	1.2	224			
975SW	L1480	25	B	"	FINE CLAY		2	BUCK BRUSH		nd	0.1	505			

Sampler TODD MONTGOMERY
Date JULY 15/90

Project MIRMAR
Property Chuck / Mayer

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS					
				Colour	Texture	Drainage				P ₄ ppm	P ₂ ppm	B ₅ ppm			
1000 SW	L1486	25	B	GREY	CLAY		2	BLACK BRUSH		nd	<0.1	191			
1025	"	30	B	"	"		3	"		nd	0.2	153			
1050	"	45	B	DARK GREY	CLAY FINE		3	"		nd	0.1	90			
1075	"	20	B	GREY	CLAY		3	"		nd	0.3	127			
1100 SW	"	25	B	GREY BL	"		5	"		nd	0.2	115			
1125	"	30	B	"	"		4	"		nd	<0.1	156			
1150	"	25	B	GREY	"		2	"		nd	<0.1	132			
1175	"	25	B	BR	MED		3	"		nd	0.2	150			
1200 SW	"	25	B	GREY	CLAY		3	"		nd	0.1	172			
1225	"	20	B	"	"		2	"		nd	0.2	218			
1250	"	20	A	BLACK	HUMUS		2	"		nd	1.0	256			
1275	"	35	B	BL GREY	CLAY		3	"		40	0.3	188			
1300 SW	"	20	B	BLUE GREY	FINE		4	"		nd	0.6	161			
1325	"	25	B	GREY	COARSE CLAY		1	"		nd	<0.1	118			
1350	"	35	B	BROWN	SAND		2	"		nd	<0.1	227			
1375	"	40	B	"	SANDY		2	"		nd	<0.1	237			
1400 SW	"	15	B	"	"		2	"		nd	<0.1	170			
1425	"	35	B	BR GREY	SANDY CLAY		2	"		nd	<0.1	186			
1450	"	35	A	BROWN	HUMUS		2	"		nd	1.2	161			
1475 SW	"	30	B	"	SANDY		2	BLACK BRUSH		nd	0.1	183			

PAMIC DEVELOPMENTS LIMITED

Geochemical Data Sheet - SOIL SAMPLING

Sampler TODD MONTGOMERY
Date JULY 15/90

Project MIRMAR
Property Chuck/Moyez

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS					
				Colour	Texture	Drainage				As mg	Ag mg	Bs mg			
1500 SW	L1480	45	A	BROWN	HUMUS		2	BUCK BRUSH							
1525	"	35	B	GREY	CLAY		3	"							
1550	"	30	B	BROWN	SAND		3	"							
1575	"	35	B	GREY	SANDY		4	"							
1600	"	30	B	BLUE GREY	FINE		2-3	"							
1625	"	35	B	GREY	SANDY CLAY		4	"							
1650	"	30	B	"	CLAY MED		4	"							
1675	"	30	B	BROWN	SANDY		4	"							
1700	"	30	B	RED BR	"		4	"							
1725	"	30	B	RED BR	"		2	"							
1750	"	30	B	GREY RED	"		3	"							
1775	"	25	B	BROWN GREY	SANDY CLAY		3	"							
1800	"	30	B	BROWN	CLAY		5	"							
1825	"	25	B	GREY	"		4	"							
1850	"	30	B	"	"		4	"							
1875	"	30	B	"	SAND CLAY		5	"							
1900	"	25	B	RED BR	MED		5	"							
1925	"	30	B	BROWN	SANDY		6	"							
1950	"	NO	SAMPLE					"	ROCK-STONE						
1975	"	NO	SAMPLE					"	BUCK BRUSH	"					

PAMIC DEVELOPMENTS LIMITED

Geochemical Data Sheet - SOIL SAMPLING

Sampler PAUL HOFFMAN
 Date JULY 15 / 90
JULY 16 / 90

Project MIRMAR
 Property Chuck/Moyez

NTS _____
 Location Ref _____
 Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS		
				Colour	Texture	Drainage				A ₂ ppb	A ₅ ppm	B ₅ ppm
2000SW	L1440	15	B	ORANGE BR	SAND COARSE		2	BUCK BRUSH				
0 S	L1530	15	B	DARK BR	SAND		60	TREES	nd	0.1	285	
25	"	25	B	"	"		60	"	nd	0.1	147	
50	"	25	B	MED BR	"		60	"	nd	<0.1	167	
75	"	25	B	"	SAND		55	"	nd	<0.1	522	
100 S	"	15	B	"	"		55	"	nd	0.1	699	
125	"	15	B	LT BR	"		45	"	nd	0.1	529	
150	"	15	B	"	SAND		30	TREES	nd	<0.1	326	
175	"	15	B	"	SAND CLAY		25	"	nd	<0.1	256	
200 S	"	20	B	"	CLAY		25	"	nd	<0.1	394	
225	"	20	B	MED BR	SAND		25	"	nd	<0.1	220	
250	"	25	B	"	"		25	TREES	nd	<0.1	213	
275	"	25	B	BR GRAY	CLAY		25	"	nd	<0.1	512	
300 S	"	20	B	MED BR	"		25	"	nd	<0.1	482	
325	"	15	B	"	SAND		25	"	nd	<0.1	600	
350	"	20	B	"	"		45	"	nd	<0.1	533	
375	"	30	B	"	CLAY		45	"	nd	<0.1	394	
400 S	"	30	B	MED BR	"		55	TREES	20	<0.1	338	

Sampler PAUL HOFFMAN
Date JULY 16/90

Project MIRMAR
Property Chuck/Moyer

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS		
				Colour	Texture	Drainage				Ap ppm	Ag ppm	Bs ppm
425 S	L1530	25	B	MED BR	CLAY	55		TREES		20	<0.1	185
450	"	25	B	DARK BR	SAND	45		"		nd	<0.1	248
475	"	20	B	LT BR	"	45		"		nd	0.2	320
500 S	"	25	B	MED BR	"	45		"		nd	<0.1	170
525	"	20	B	LT BR	"	35		"		nd	<0.1	473
550	"	20	B	"	"	40		"		nd	<0.1	568
575	"	25	B	"	"	45		TREES		nd	<0.1	298
600 S	"	20	B	MED BR	SAND	35		"		20	<0.1	321
625	"	25	B	ORANGE BR	"	35		"		40	<0.1	384
650	"	20	B	LT BR	"	45		"		20	0.2	348
675	"	20	B	"	"	45		"		20	0.3	359
700 S	"	15	B	"	"	45		"		nd	<0.1	150
725	"	25	B	MED BR	"	45		TREES		nd	<0.1	161
750	"	15	B	"	SAND	40		"		nd	<0.1	192
775	"	30	B	GRAY BR	"	45		"		nd	<0.1	189
800 S	"	20	B	MED BR	"	45		"		nd	<0.1	197
825	"	25	B	"	"	45		"		nd	<0.1	313
850	"	20	B	LT BR	"	45		"		nd	<0.1	253
875	"	15	B	"	"	40		"		nd	<0.1	649
900 S	L1530	20	B	MED BR	CLAY	35		TREES		nd	<0.1	277

NTS _____

Sampler TODD MONTGOMERY

Project MIRMAN

Location Ref _____

Date JULY 15/90

Property Chuck/Moyer

Air Photo No _____

JULY 16/90

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS					
				Colour	Texture	Drainage				Ag ppm	Ag ppm	B3 ppm			
2000 SW	L 1490		NO	SAMPLE											
0 S	L 1550	20	B	RED	MED		60	TREES		nd	<0.1	304			
25	"	20	B	"	MED COARSE		"	"		nd	<0.1	260			
50	"	25	B	"	COARSE		"	"		90	<0.1	275			
75	"	20	B	RED BR	"		"	"		nd	<0.1	222			
100 S	"	20	B	"	"		"	"		nd	<0.1	163			
125	"	20	B	RED	"		"	"		nd	<0.1	145			
150	"	25	B	"	"		"	"		nd	<0.1	143			
175	"	20	B	"	"		45	"		40	<0.1	117			
200 S	"	25	B	"	"		"	"		20	<0.1	126			
225	"	30	B	"	"		"	"		nd	<0.1	135			
250	"	25	B	"	"		"	"		nd	<0.1	193			
275	"	25	B	"	COARSE		"	"		nd	<0.1	141			
300 S	"	20	B	"	MED		"	"		nd	<0.1	150			
325	"	20	B	BROWN	"		"	"		nd	<0.1	147			
350	"	15	B	RED	COARSE		"	"		nd	0.2	155			
375	"	15	B	RED BR	"		"	"		nd	0.1	145			
400 S	"	15	B	RED	MED		"	TREES		nd	0.1	129			

Sampler TODD MONTGOMERY
Date JULY 16/90

Project MIRMAR
Property Chuck/Moyer

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS		
				Colour	Texture	Drainage				Au ppb	Ag ppm	Bs ppm
425 S	L1550	20	B	RED	COARSE		45	TREES		nd	<0.1	145
450	"	15	B	"	"		45	"		nd	<0.1	220
475	"	15	B	"	"		60	"		20	<0.1	194
500 S	"	10	B	"	MED		60	"		20	0.1	119
525	"	20	B	"	"		60	"		nd	0.1	120
550	"	20	B	"	"		60	"		nd	<0.1	142
575	"	20	B	"	COARSE		60	"		nd	<0.1	143
600 S	"	20	B	"	MED		60	"		nd	<0.1	100
625	"	20	B	"	"		60	"		nd	<0.1	117
650	"	20	B	"	COARSE		60	"		nd	0.2	139
675	"	20	B	"	"		60	"		nd	<0.1	177
700 S	"	25	B	"	"		60	"		nd	<0.1	134
725	"	15	B	RED	"		60	"		nd	0.2	162
750	"	20	B	"	"		45	"		20	<0.1	173
775	"	20	B	"	"		"	"		40	<0.1	188
800 S	"		B	"	"		"	"		40	<0.1	202
825	"		B	"	"		"	"		40	<0.1	175
850	"		B	"	"		"	"		nd	<0.1	208
875	"		B	"	"		"	"		nd	<0.1	184
900	"		B	"	COARSE		"	TREES		40	<0.1	130

APPENDIX V

ASSAY RESULTS

GEOCHEMICAL ANALYTICAL REPORT

CLIENT: PAMICON DEVELOPMENTS LTD.
ADDRESS: 711 - 675 W. Hastings St.
: Vancouver, BC
: V6B 1N4

DATE: AUG 02 1990

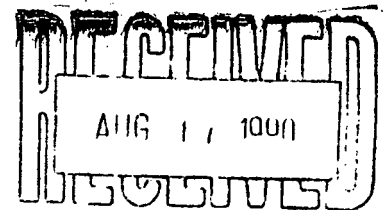
REPORT#: 900131 GA
JOB#: 900131

PROJECT#: MIRAMAR
SAMPLES ARRIVED: JULY 23 1990
REPORT COMPLETED: AUG 02 1990
ANALYSED FOR: Au (FA/AAS) ICP

INVOICE#: 900131 NA
TOTAL SAMPLES: 278
SAMPLE TYPE: 278 SOIL
REJECTS: DISCARDED

SAMPLES FROM: BRONSON CAMP
COPY SENT TO: PAMICON DEVELOPMENTS LTD.

PREPARED FOR: MR. STEVE TODORUK



ANALYSED BY: VGC Staff

SIGNED: _____

Raymond Lee

GENERAL REMARK: RESULTS FAXED TO BRONSON CAMP.

REPORT NUMBER: 900131 GA

JOB NUMBER: 900131

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 8

SAMPLE #	Au
	ppb
L1410 000SW	nd
L1410 025SW	20
L1410 050SW	20
L1410 075SW	20
L1410 100SW	nd
L1410 125SW	40
L1410 150SW	20
L1410 175SW	20
L1410 200SW	nd
L1410 225SW	nd
L1410 250SW	nd
L1410 275SW	20
L1410 300SW	10
L1410 325SW	nd
L1410 350SW	nd
L1410 375SW	nd
L1410 400SW	20
L1410 450SW	nd
L1410 475SW	nd
L1410 500SW	nd
L1410 525SW	nd
L1410 550SW	nd
L1410 575SW	nd
L1410 600SW	nd
L1410 625SW	nd
L1410 650SW	20
L1410 675SW	20
L1410 700SW	20
L1410 725SW	nd
L1410 750SW	nd
L1410 775SW	nd
L1410 800SW	nd
L1410 825SW	nd
L1410 850SW	40
L1410 875SW	nd
L1410 900SW	nd
L1410 925SW	nd
L1410 950SW	nd
L1410 975SW	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

REPORT NUMBER: 900131 GA

JOB NUMBER: 900131

PANICON DEVELOPMENTS LTD.

PAGE 2 OF 8

SAMPLE #	Au
	ppb
L1440 1000SW	40
L1440 000SW	20
L1440 025SW	40
L1440 050SW	20
L1440 075SW	40
L1440 100SW	40
L1440 125SW	20
L1440 150SW	nd
L1440 175SW	nd
L1440 200SW	20
L1440 225SW	nd
L1440 250SW	nd
L1440 275SW	nd
L1440 300SW	nd
L1440 325SW	40
L1440 350SW	nd
L1440 375SW	nd
L1440 400SW	nd
L1440 425SW	40
L1440 450SW	40
L1440 475SW	20
L1440 500SW	20
L1440 525SW	20
L1440 550SW	nd
L1440 575SW	nd
L1440 600SW	nd
L1440 625SW	nd
L1440 650SW	40
L1440 675SW	nd
L1440 700SW	nd
L1440 725SW	20
L1440 750SW	nd
L1440 775SW	nd
L1440 825SW	nd
L1440 900SW	nd
L1440 925SW	nd
L1440 950SW	nd
L1440 975SW	nd
L1440 1000SW	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

ls = insufficient sample

REPORT NUMBER: 900131 GA

JOB NUMBER: 900131

PANICON DEVELOPMENTS LTD.

PAGE 3 OF 8

SAMPLE #	Au ppb
L1440 1025SW	40
L1440 1050SW	nd
L1440 1075SW	nd
L1440 1100SW	nd
L1440 1125SW	nd
L1440 1150SW	nd
L1440 1175SW	nd
L1440 1200SW	nd
L1440 1225SW	20
L1440 1250SW	20
L1440 1275SW	20
L1440 1300SW	nd
L1440 1325SW	nd
L1440 1350SW	20
L1440 1375SW	20
L1440 1400SW	20
L1440 1425SW	nd
L1440 1450SW	nd
L1440 1475SW	nd
L1440 1500SW	nd
L1440 1525SW	nd
L1440 1550SW	nd
L1440 1575SW	nd
L1440 1600SW	nd
L1440 1625SW	20
L1440 1650SW	40
L1440 1675SW	nd
L1440 1700SW	nd
L1440 1725SW	nd
L1440 1750SW	nd
L1440 1775SW	nd
L1440 1800SW	40
L1440 1825SW	nd
L1440 1850SW	nd
L1440 1875SW	nd
L1440 1900SW	nd
L1440 1925SW	nd
L1440 1950SW	440
L1440 1975SW	20

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

REPORT NUMBER: 900131 GA

JOB NUMBER: 900131

PANICON DEVELOPMENTS LTD.

PAGE 4 OF 8

SAMPLE #	Au
	ppb
L1440 2000SW	40
L1480 000SW	20
L1480 025SW	nd
L1480 050SW	nd
L1480 075SW	nd
L1480 100SW	20
L1480 125SW	20
L1480 150SW	nd
L1480 175SW	nd
L1480 200SW	20
L1480 225SW	20
L1480 250SW	20
L1480 275SW	20
L1480 300SW	nd
L1480 325SW	nd
L1480 350SW	nd
L1480 375SW	nd
L1480 400SW	nd
L1480 425SW	nd
L1480 450SW	nd
L1480 475SW	nd
L1480 500SW	20
L1480 525SW	20
L1480 550SW	20
L1480 575SW	nd
L1480 600SW	nd
L1480 625SW	nd
L1480 650SW	40
L1480 675SW	20
L1480 700SW	20
L1480 725SW	nd
L1480 750SW	nd
L1480 775SW	nd
L1480 800SW	nd
L1480 825SW	20
L1480 850SW	20
L1480 875SW	20
L1480 900SW	nd
L1480 925SW	nd

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

REPORT NUMBER: 900131 GA

JOB NUMBER: 900131

PANICON DEVELOPMENTS LTD.

PAGE 5 OF 8

SAMPLE I	Au
	ppb
L1480 950SV	nd
L1480 975SV	nd
L1480 1000SV	nd
L1480 1025SV	nd
L1480 1050SV	nd
L1480 1075SV	nd
L1480 1100SV	nd
L1480 1125SV	nd
L1480 1150SV	nd
L1480 1175SV	nd
L1480 1200SV	nd
L1480 1225SV	nd
L1480 1250SV	nd
L1480 1275SV	40
L1480 1300SV	nd
L1480 1325SV	nd
L1480 1350SV	nd
L1480 1375SV	nd
L1480 1400SV	nd
L1480 1425SV	nd
L1480 1450SV	nd
L1480 1475SV	nd
L1480 1500SV	20
L1480 1525SV	nd
L1480 1550SV	40
L1480 1575SV	20
L1480 1600SV	20
L1480 1625SV	nd
L1480 1650SV	nd
L1480 1675SV	nd
L1480 1700SV	nd
L1480 1725SV	nd
L1480 1750SV	nd
L1480 1775SV	nd
L1480 1800SV	nd
L1480 1825SV	40
L1480 1850SV	nd
L1480 1875SV	nd
L1480 1900SV	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

REPORT NUMBER: 900131 GA

JOB NUMBER: 900131

PANICON DEVELOPMENTS LTD.

PAGE 6 OF 8

SAMPLE #	Au
	ppb
L1480 1925SW	nd
L1530 000S	nd
L1530 025S	nd
L1530 050S	nd
L1530 075S	nd
L1530 100S	nd
L1530 125S	nd
L1530 150S	nd
L1530 175S	nd
L1530 200S	nd
L1530 225S	nd
L1530 250S	nd
L1530 275S	nd
L1530 300S	nd
L1530 325S	nd
L1530 350S	nd
L1530 375S	nd
L1530 400S	20
L1530 425S	20
L1530 450S	nd
L1530 475S	nd
L1530 500S	nd
L1530 525S	nd
L1530 550S	nd
L1530 575S	nd
L1530 600S	20
L1530 625S	40
L1530 650S	20
L1530 675S	20
L1530 700S	nd
L1530 725S	nd
L1530 750S	nd
L1530 775S	nd
L1530 800S	nd
L1530 825S	nd
L1530 850S	nd
L1530 875S	nd
L1530 900S	nd
L1530 925S	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

REPORT NUMBER: 900131 GA

JOB NUMBER: 900131

PAMICON DEVELOPMENTS LTD.

PAGE 7 OF 8

SAMPLE #	La
	ppb
L1530 950S	nd
L1530 975S	nd
L1530 1000S	nd
L1550 000S	nd
L1550 025S	nd
L1550 050S	40
L1550 075S	nd
L1550 100S	nd
L1550 125S	nd
L1550 150S	nd
L1550 175S	40
L1550 200S	20
L1550 225S	nd
L1550 250S	nd
L1550 275S	nd
L1550 300S	nd
L1550 325S	nd
L1550 350S	nd
L1550 375S	nd
L1550 400S	nd
L1550 425S	nd
L1550 450S	nd
L1550 475S	20
L1550 500S	20
L1550 525S	nd
L1550 550S	nd
L1550 575S	nd
L1550 600S	nd
L1550 625S	nd
L1550 650S	nd
L1550 675S	nd
L1550 700S	nd
L1550 725S	nd
L1550 750S	20
L1550 775S	40
L1550 800S	40
L1550 825S	40
L1550 850S	nd
L1550 875S	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

REPORT NUMBER: 900131 GA

JOB NUMBER: 900131

PANICON DEVELOPMENTS LTD.

PAGE 8 OF 8

SAMPLE #	Au ppb
L1550 900S	40
L1550 925S	60
L1550 950S	40
L1550 975S	20
L1550 1000S	40

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

RECEIVED
AUG 17 1990
ANALYST: [Signature]

REPORT #: 900131 PA PANICON DEVELOPMENTS LTD. PROJECT: MIRAMAR DATE IN: JULY 23 1990 DATE OUT: AUG 10 1990 ATTENTION: MR. STEVE TODORUK PAGE 1 OF 8

Table with columns for Sample Name and elements Ag, Al, As, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sn, Sr, U, W, Zn. Each element has two columns for concentration (ppm) and detection status (I, <3, >100).

Minimum Detection Maximum Detection
(- Less Than Minimum) - Greater Than Maximum is - Insufficient Sample ns - No Sample
ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Royce*

REPORT #: 900131 PA	PAMICON DEVELOPMENTS LTD.				PROJECT: MIRAMAR				DATE IN: JULY 23 1990		DATE OUT: AUG 10 1990		ATTENTION: MR. STEVE TODORUK				PAGE 2 OF 8								
Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L1410 1000SW	0.4	3.71	<3	499	<3	1.38	<0.1	7	19	29	1.94	0.05	0.58	1283	10	<0.01	43	0.12	33	<2	6	153	<5	<3	161
L1440 000SW	0.3	3.53	<3	240	<3	0.89	<0.1	7	10	17	3.13	<0.01	0.84	978	6	<0.01	13	0.11	23	<2	6	161	>100	<3	94
L1440 025SW	0.1	3.00	<3	191	<3	1.19	<0.1	12	10	21	1.78	0.08	0.80	422	9	0.01	15	0.11	44	<2	8	171	95	<3	109
L1440 050SW	0.1	3.03	<3	194	<3	1.08	<0.1	7	9	14	3.30	0.01	0.73	775	5	<0.01	14	0.13	21	<2	7	158	<5	<3	90
L1440 075SW	<0.1	3.18	66	210	16	1.12	<0.1	20	13	28	3.75	0.14	0.82	994	18	0.03	24	0.14	77	27	12	173	<5	<3	101
L1440 100SW	<0.1	2.98	108	149	42	1.54	2.7	28	15	35	6.44	0.22	0.79	1214	25	0.04	33	0.18	110	72	16	184	<5	<3	150
L1440 125SW	<0.1	2.45	70	161	30	1.18	1.5	24	15	29	7.77	0.15	0.70	1130	18	0.02	22	0.18	82	37	15	157	<5	<3	133
L1440 150SW	0.1	2.55	137	256	61	1.11	3.9	29	17	42	4.09	0.27	0.64	2866	26	0.06	40	0.17	122	86	17	140	<5	<3	106
L1440 175SW	0.1	2.49	107	225	50	0.99	2.6	24	18	30	3.27	0.23	0.65	773	20	0.05	35	0.12	107	66	17	119	>100	<3	113
L1440 200SW	0.1	2.87	45	231	<3	1.09	1.9	17	13	26	2.61	0.14	0.75	884	12	0.03	22	0.11	73	19	11	152	<5	<3	87
L1440 225SW	0.2	3.35	101	254	38	1.11	2.5	24	16	34	3.04	0.20	0.85	1394	20	0.04	28	0.13	99	55	15	159	<5	<3	113
L1440 250SW	0.3	3.29	82	286	21	0.90	3.1	25	22	33	4.76	0.20	0.77	894	22	0.04	39	0.12	101	60	15	107	<5	<3	148
L1440 275SW	0.1	2.88	<3	192	<3	0.98	<0.1	5	9	14	3.43	<0.01	0.68	846	2	<0.01	14	0.11	10	<2	4	149	<5	<3	92
L1440 300SW	0.1	2.40	4	140	14	0.83	1.8	14	13	19	6.24	0.06	0.63	983	11	<0.01	21	0.15	45	<2	9	123	<5	<3	118
L1440 325SW	0.1	3.13	41	206	4	0.83	<0.1	16	15	22	3.80	0.11	0.73	1010	14	0.02	23	0.12	64	20	11	145	<5	<3	100
L1440 350SW	0.2	2.60	30	328	<3	1.60	<0.1	9	12	19	2.39	0.08	0.65	556	10	<0.01	18	0.11	38	<2	6	191	<5	<3	84
L1440 375SW	0.2	2.33	43	270	<3	0.91	2.1	7	10	17	5.33	0.05	0.41	389	9	<0.01	17	0.15	36	<2	8	107	<5	<3	72
L1440 400SW	0.2	2.54	148	186	53	1.06	3.0	31	20	37	3.63	0.32	0.74	575	26	0.07	44	0.15	135	112	20	133	<5	<3	115
L1440 425SW	0.3	2.60	72	270	23	0.75	2.5	20	21	28	2.80	0.18	0.67	559	16	0.04	41	0.10	91	44	14	67	<5	<3	109
L1440 450SW	0.3	2.89	143	258	46	1.12	4.0	31	24	37	6.10	0.27	0.78	1538	27	0.06	47	0.15	129	98	21	134	<5	<3	136
L1440 475SW	0.3	3.43	222	250	71	0.97	4.4	37	31	48	3.18	0.40	0.86	595	37	0.10	71	0.15	183	165	22	125	>100	<3	122
L1440 500SW	0.2	4.30	205	398	65	0.93	3.5	37	36	51	3.42	0.35	1.06	1206	33	0.09	73	0.14	179	156	23	91	<5	<3	159
L1440 525SW	0.3	4.34	180	262	55	1.62	3.0	30	26	38	3.75	0.31	0.88	728	29	0.07	57	0.17	147	117	20	148	<5	<3	166
L1440 550SW	0.8	3.94	106	393	15	1.13	2.5	23	26	38	3.02	0.21	0.85	918	21	0.05	46	0.15	108	77	13	113	<5	<3	137
L1440 575SW	0.2	3.03	110	192	27	0.66	2.8	24	20	31	3.03	0.20	0.77	834	21	0.05	40	0.12	102	73	15	116	<5	<3	125
L1440 600SW	0.2	3.39	121	218	30	1.15	2.6	23	20	34	3.14	0.23	0.72	745	22	0.05	33	0.13	108	82	15	154	<5	<3	97
L1440 625SW	0.2	2.68	120	228	17	1.14	2.8	26	21	35	5.13	0.24	0.68	805	23	0.05	31	0.16	110	82	18	141	19	<3	113
L1440 650SW	0.3	3.84	171	416	48	1.19	3.4	31	31	44	3.30	0.30	0.94	1536	27	0.07	58	0.15	141	112	20	112	<5	<3	210
L1440 675SW	0.3	2.61	159	210	50	0.94	4.5	30	22	39	3.75	0.33	0.69	1101	28	0.08	36	0.14	143	120	20	130	<5	<3	99
L1440 700SW	0.2	3.07	201	182	72	0.80	4.2	34	25	43	3.25	0.37	0.80	683	31	0.10	44	0.14	162	145	22	125	>100	<3	103
L1440 725SW	0.2	2.49	154	216	33	1.03	3.3	27	20	35	3.62	0.29	0.67	708	25	0.07	34	0.14	122	100	20	124	<5	<3	110
L1440 750SW	0.1	2.75	159	206	43	0.89	3.9	29	22	37	3.66	0.32	0.68	555	25	0.08	42	0.14	137	115	19	117	>100	>1000	99
L1440 775SW	0.2	2.91	149	216	30	0.98	2.2	28	21	36	2.73	0.32	0.75	569	25	0.08	35	0.13	131	104	19	134	>100	>1000	103
L1440 825SW	0.2	2.12	130	166	38	0.88	4.1	28	20	35	6.12	0.30	0.58	657	22	0.07	33	0.13	121	101	19	120	>100	697	116
L1440 900SW	0.1	2.27	59	171	<3	0.46	<0.1	17	26	29	1.87	0.18	0.57	262	15	0.04	40	0.07	82	44	13	54	<5	830	84
L1440 925SW	0.2	1.97	106	163	24	0.56	3.6	25	28	31	2.24	0.24	0.56	820	19	0.06	52	0.09	97	74	14	52	46	427	96
L1440 950SW	0.2	1.40	116	139	14	0.46	3.8	27	27	35	2.29	0.25	0.49	707	20	0.07	54	0.08	98	78	15	61	>100	206	77
L1440 975SW	0.1	1.42	113	141	17	0.51	3.9	24	29	32	2.10	0.23	0.50	523	17	0.06	55	0.08	97	73	13	58	19	216	84
L1440 1000SW	0.1	1.35	143	137	40	0.41	3.0	31	34	37	2.15	0.30	0.52	792	21	0.08	64	0.07	118	103	16	54	<5	102	93

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ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Raymond Cole*

REPORT #: 900131 PA PANICON DEVELOPMENTS LTD. PROJECT: MIRAMAR DATE IN: JULY 23 1990 DATE OUT: AUG 10 1990 ATTENTION: MR. STEVE TODORUK PAGE 3 OF 8

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L1440 1025SW	<0.1	1.85	222	136	61	0.69	6.5	38	35	51	2.46	0.45	0.64	536	32	0.13	68	0.08	175	172	22	83	>100	107	94
L1440 1050SW	0.2	2.66	189	157	44	0.46	4.2	32	37	47	3.19	0.35	0.73	536	25	0.10	67	0.08	152	142	22	75	<5	288	118
L1440 1075SW	<0.1	1.98	184	166	60	0.60	3.3	31	35	40	2.43	0.37	0.63	441	25	0.10	60	0.08	143	135	20	66	>100	198	99
L1440 1100SW	0.1	1.65	187	104	52	0.50	4.2	32	31	45	2.27	0.38	0.54	457	26	0.11	52	0.07	151	142	21	63	<5	36	75
L1440 1125SW	0.1	2.13	195	165	61	0.62	5.4	33	35	45	2.40	0.42	0.63	501	28	0.12	61	0.09	153	156	21	66	<5	89	95
L1440 1150SW	0.1	1.73	91	135	25	0.47	2.7	22	27	30	2.00	0.24	0.51	358	18	0.07	41	0.06	98	83	14	57	<5	129	70
L1440 1175SW	0.1	1.66	186	122	68	0.54	4.3	34	34	45	2.30	0.42	0.54	454	26	0.12	66	0.08	160	157	21	61	53	80	73
L1440 1200SW	0.1	1.69	22	124	12	0.42	0.2	12	24	19	2.07	0.10	0.52	385	9	0.02	35	0.06	46	5	8	57	<5	172	69
L1440 1225SW	0.1	1.86	9	161	<3	0.50	0.2	9	25	19	2.17	0.05	0.52	407	8	<0.01	32	0.07	40	<2	6	56	<5	197	88
L1440 1250SW	0.2	2.64	91	213	15	0.56	2.0	19	38	31	2.98	0.20	0.70	505	15	0.05	51	0.10	91	59	12	61	>100	250	127
L1440 1275SW	0.1	1.75	26	110	<3	0.31	<0.1	9	18	14	2.49	0.07	0.41	317	9	0.01	30	0.07	42	<2	6	56	60	157	64
L1440 1300SW	0.2	1.76	175	116	31	0.33	4.9	29	29	38	3.27	0.37	0.40	392	25	0.12	45	0.08	147	155	18	56	>100	72	76
L1440 1325SW	0.2	1.95	148	190	29	0.61	3.8	24	41	34	2.30	0.30	0.57	392	21	0.09	65	0.11	114	102	15	73	>100	123	92
L1440 1350SW	0.3	2.62	<3	223	<3	0.76	<0.1	6	32	16	2.58	0.01	0.66	594	8	<0.01	44	0.11	26	<2	5	90	<5	234	133
L1440 1375SW	0.1	2.06	127	176	21	0.51	3.0	23	32	32	2.98	0.29	0.52	426	21	0.08	48	0.06	113	104	15	85	<5	125	90
L1440 1400SW	0.1	1.71	8	139	<3	0.57	0.2	8	23	13	2.20	0.06	0.53	368	8	<0.01	26	0.07	37	<2	9	80	>100	140	79
L1440 1425SW	0.2	2.41	36	191	<3	0.66	<0.1	10	38	19	2.22	0.11	0.60	399	10	0.02	45	0.13	54	12	8	83	<5	175	104
L1440 1450SW	0.1	2.19	260	117	64	0.60	5.5	39	46	48	4.52	0.47	0.59	670	32	0.15	61	0.12	177	206	25	77	<5	53	104
L1440 1475SW	0.1	1.88	<3	189	<3	0.55	<0.1	<1	17	10	2.38	0.64	0.43	362	<1	0.06	11	0.08	<2	<2	<2	78	26	32	69
L1440 1500SW	0.1	1.96	<3	169	<3	0.28	<0.1	<1	17	<1	1.91	0.82	0.44	543	<1	0.07	14	0.06	<2	<2	<2	53	41	36	76
L1440 1525SW	0.2	2.05	<3	186	<3	0.22	<0.1	<1	15	<1	1.85	0.81	0.38	282	<1	0.07	16	0.07	<2	<2	<2	61	<5	37	60
L1440 1550SW	0.3	1.66	<3	139	<3	0.18	<0.1	<1	14	<1	1.65	0.66	0.45	245	<1	0.05	9	0.05	<2	<2	<2	51	19	29	58
L1440 1575SW	<0.1	1.60	<3	121	<3	0.23	<0.1	<1	13	<1	1.60	0.71	0.43	220	<1	0.06	9	0.06	<2	<2	<2	46	<5	29	51
L1440 1600SW	0.2	2.03	<3	162	<3	0.28	<0.1	<1	18	<1	1.87	0.42	0.45	528	<1	0.04	20	0.08	<2	<2	<2	47	29	32	62
L1440 1625SW	<0.1	1.76	<3	109	<3	0.40	<0.1	<1	13	<1	2.12	0.59	0.42	436	<1	0.05	13	0.08	<2	<2	<2	70	<5	30	50
L1440 1650SW	<0.1	1.72	<3	121	<3	0.26	<0.1	<1	14	<1	2.37	0.38	0.36	415	<1	0.04	11	0.07	<2	<2	<2	63	15	28	53
L1440 1675SW	0.3	1.61	<3	98	<3	0.34	<0.1	<1	15	11	1.90	0.32	0.41	377	<1	0.03	16	0.06	8	<2	<2	66	<5	26	45
L1440 1700SW	0.1	1.62	<3	164	<3	0.30	<0.1	<1	22	<1	1.38	0.23	0.40	261	<1	0.02	25	0.08	7	<2	<2	53	15	24	51
L1440 1725SW	0.1	1.68	<3	143	<3	0.29	<0.1	<1	18	<1	1.60	0.34	0.43	252	<1	0.03	17	0.07	<2	<2	<2	56	37	27	64
L1440 1750SW	<0.1	1.33	<3	97	<3	0.40	<0.1	<1	14	1	1.72	0.31	0.38	322	<1	0.03	15	0.07	<2	<2	<2	68	10	21	41
L1440 1775SW	<0.1	1.30	<3	132	<3	0.20	<0.1	2	22	<1	1.42	0.28	0.37	389	<1	0.03	19	0.05	<2	<2	<2	35	14	19	49
L1440 1800SW	0.2	1.87	92	149	37	0.36	5.3	26	33	35	2.32	0.26	0.42	558	24	0.07	63	0.09	118	74	18	73	<5	<3	64
L1440 1825SW	0.1	1.85	42	120	23	0.37	2.7	18	31	102	2.45	0.15	0.51	374	15	0.04	43	0.07	75	20	11	67	<5	>1000	64
L1440 1850SW	0.2	1.93	23	140	<3	0.40	<0.1	14	26	27	2.21	0.12	0.50	330	12	0.03	35	0.08	64	11	10	68	<5	750	62
L1440 1875SW	0.1	1.91	121	179	54	0.70	3.6	24	36	36	2.53	0.29	0.54	385	21	0.08	52	0.11	114	80	17	69	8	284	95
L1440 1900SW	0.2	2.29	93	167	42	0.31	3.7	25	43	35	2.43	0.30	0.61	337	22	0.08	59	0.08	119	81	18	51	<5	234	98
L1440 1925SW	0.2	2.66	104	178	48	0.17	3.6	26	43	35	2.40	0.31	0.58	510	24	0.09	57	0.07	131	103	17	34	17	241	95
L1440 1950SW	0.4	2.70	145	228	44	0.48	4.7	32	50	45	2.91	0.37	0.62	682	25	0.11	68	0.12	142	109	18	50	<5	188	91
L1440 1975SW	0.4	2.39	231	194	120	0.78	6.3	45	58	60	5.19	0.57	0.73	824	35	0.17	93	0.14	203	192	27	62	<5	101	122

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000
 < - Less Than Minimum) - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Raymond Lee*

REPORT #: 900131 PA PAMICON DEVELOPMENTS LTD. PROJECT: MIRAMAR DATE IN: JULY 23 1990 DATE OUT: AUG 10 1990 ATTENTION: MR. STEVE TODORUK PAGE 4 OF 8

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L1440 2000SW	<0.1	2.82	219	106	93	0.33	5.5	37	41	47	3.76	0.52	0.39	760	31	0.17	62	0.15	189	174	24	27	<5	97	121
L1480 000SW	0.2	2.61	218	438	81	1.91	5.3	39	49	62	2.27	0.57	0.54	1441	32	0.19	72	0.19	171	173	23	126	<5	83	177
L1480 025SW	0.1	2.81	153	289	36	0.90	5.2	29	33	60	2.29	0.41	0.23	489	25	0.16	46	0.21	135	125	16	71	<5	124	107
L1480 050SW	0.4	2.74	140	519	55	0.57	6.6	86	48	36	6.36	0.37	0.38	12678	25	0.14	65	0.17	129	120	17	48	<5	110	92
L1480 075SW	0.5	3.47	111	568	25	1.68	3.5	23	51	41	2.19	0.42	0.55	2395	20	0.14	60	0.28	114	98	15	102	<5	131	207
L1480 100SW	1.0	1.79	85	325	33	0.79	4.5	36	31	37	1.27	0.42	0.19	6088	20	0.21	46	0.22	101	95	15	50	<5	55	80
L1480 125SW	0.7	4.39	243	954	80	2.00	6.5	42	70	71	3.69	0.77	0.71	3988	33	0.45	94	0.22	195	237	25	106	<5	157	153
L1480 175SW	<0.1	3.33	30	637	<3	1.02	<0.1	12	58	29	2.51	0.12	0.67	691	11	0.04	42	0.16	62	44	9	68	>100	134	153
L1480 200SW	0.1	3.20	130	510	64	0.71	3.0	35	59	35	3.95	0.34	0.59	2612	20	0.41	53	0.15	102	101	15	54	42	104	129
L1480 225SW	<0.1	1.88	68	185	37	0.39	<0.1	17	32	22	2.16	0.34	0.51	378	13	3.43	45	0.08	79	85	11	49	<5	52	87
L1480 250SW	<0.1	2.04	64	154	37	0.34	<0.1	17	35	25	2.26	0.32	0.55	340	15	<0.01	50	0.09	81	82	13	52	9	59	74
L1480 275SW	0.1	2.01	38	164	8	0.57	<0.1	12	25	22	2.32	0.22	0.52	516	9	<0.01	32	0.08	65	35	10	85	16	64	84
L1480 300SW	<0.1	2.25	92	269	49	0.80	<0.1	16	33	31	2.37	0.48	0.56	549	15	<0.01	45	0.11	84	101	13	80	<5	57	81
L1480 325SW	<0.1	2.44	40	133	8	0.40	<0.1	15	31	23	2.65	0.30	0.59	541	11	<0.01	42	0.09	68	79	11	65	<5	57	84
L1480 350SW	<0.1	1.91	40	178	5	0.37	<0.1	13	54	20	3.28	0.25	0.67	746	9	<0.01	41	0.09	48	55	10	80	27	47	92
L1480 350SW	<0.1	2.19	55	139	12	0.18	<0.1	12	24	14	5.33	0.25	0.30	650	11	<0.01	16	0.10	61	64	9	48	15	52	90
L1480 375SW	<0.1	3.07	57	140	36	0.23	<0.1	13	35	34	3.18	0.39	0.52	494	12	<0.01	42	0.11	73	125	11	36	12	75	123
L1480 400SW	<0.1	1.70	117	133	95	0.67	<0.1	21	28	29	2.21	1.55	0.53	518	15	<0.01	38	0.10	101	210	15	97	<5	29	66
L1480 425SW	<0.1	1.50	93	136	46	0.56	0.3	17	29	29	2.03	2.08	0.50	346	14	<0.01	34	0.09	84	238	13	81	46	23	63
L1480 450SW	<0.1	2.04	23	161	<3	0.64	0.2	11	30	24	2.43	1.49	0.63	453	8	<0.01	38	0.10	41	85	8	95	<5	42	80
L1480 475SW	<0.1	1.79	101	150	68	0.62	0.1	15	34	31	2.26	<0.01	0.55	350	11	<0.01	60	0.09	78	307	11	82	10	31	66
L1480 500SW	0.1	1.71	281	133	218	0.73	3.6	33	37	43	2.46	<0.01	0.59	447	25	<0.01	54	0.11	191	1161	22	102	25	15	74
L1480 525SW	<0.1	1.71	461	122	357	0.42	5.7	42	44	45	2.26	<0.01	0.55	399	34	<0.01	60	0.11	255	>2000	27	70	<5	10	74
L1480 550SW	<0.1	1.61	284	119	164	0.50	4.8	28	36	35	2.23	<0.01	0.53	395	20	<0.01	53	0.10	167	>2000	19	78	23	12	68
L1480 575SW	<0.1	2.06	531	121	463	0.39	6.3	43	43	46	2.58	<0.01	0.59	343	36	<0.01	67	0.11	276	>2000	26	72	<5	15	74
L1480 600SW	<0.1	1.69	369	129	282	0.71	2.9	29	33	36	2.27	<0.01	0.55	445	20	<0.01	50	0.12	166	<2	19	110	28	16	67
L1480 625SW	<0.1	2.27	599	140	559	0.25	7.9	44	51	46	2.78	<0.01	0.54	459	37	<0.01	68	0.15	292	<2	31	41	<5	22	129
L1480 650SW	<0.1	1.83	587	126	646	0.33	5.8	40	44	43	2.42	<0.01	0.54	536	32	<0.01	61	0.12	258	<2	25	54	14	11	93
L1480 675SW	<0.1	2.58	368	205	538	1.00	2.9	28	31	30	4.21	<0.01	0.54	901	22	<0.01	42	0.15	162	<2	17	165	<5	33	100
L1480 700SW	<0.1	1.66	568	118	>1000	0.70	5.3	43	37	44	4.61	<0.01	0.50	766	31	<0.01	53	0.19	254	<2	28	85	34	11	89
L1480 725SW	<0.1	1.44	543	116	>1000	0.55	3.9	36	36	39	2.37	<0.01	0.52	618	24	<0.01	56	0.09	222	<2	22	82	<5	11	68
L1480 750SW	<0.1	1.96	898	242	>1000	0.53	6.2	50	74	48	3.19	<0.01	0.80	811	35	<0.01	76	0.14	314	<2	30	109	10	12	111
L1480 775SW	<0.1	1.74	<3	108	711	0.37	<0.1	<1	22	8	2.40	0.14	0.49	441	<1	0.02	22	0.08	<2	<2	4	71	34	26	62
L1480 800SW	<0.1	1.81	<3	123	456	0.38	<0.1	<1	24	5	2.33	0.16	0.51	357	2	0.02	16	0.09	<2	8	4	68	<5	30	64
L1480 825SW	<0.1	1.60	<3	122	466	0.49	<0.1	<1	20	5	2.13	0.22	0.52	510	<1	0.03	17	0.08	<2	85	<2	82	8	28	61
L1480 850SW	<0.1	2.23	<3	169	769	0.53	<0.1	<1	16	<1	2.11	0.48	0.59	568	<1	0.05	9	0.05	<2	254	<2	56	<5	42	73
L1480 875SW	<0.1	1.76	<3	125	440	0.43	<0.1	<1	15	<1	1.63	0.36	0.49	261	<1	0.04	4	0.06	<2	193	<2	56	<5	35	64
L1480 900SW	0.2	2.70	<3	245	398	0.75	<0.1	<1	22	<1	1.93	0.33	0.54	1529	<1	0.04	6	0.11	<2	143	<2	59	15	47	107
L1480 925SW	1.5	2.93	<3	275	296	1.00	<0.1	<1	23	23	1.98	0.30	0.35	2426	<1	0.04	14	0.26	<2	122	<2	56	<5	48	123

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000
 < - Less Than Minimum) - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

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 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Raymond*

REPORT #: 900131 PA PAMICON DEVELOPMENTS LTD. PROJECT: MIRAMAR DATE IN: JULY 23 1990 DATE OUT: AUG 10 1990 ATTENTION: MR. STEVE TODORUK PAGE 5 OF 8

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L1480 950SW	1.0	2.60	<3	280	344	0.90	<0.1	<1	20	11	1.55	0.34	0.31	1864	<1	0.04	8	0.22	<2	143	<2	55	38	46	115
L1480 975SW	<0.1	1.86	<3	193	243	0.51	<0.1	<1	17	<1	1.91	0.32	0.49	2073	<1	0.04	12	0.07	<2	133	<2	56	14	33	77
L1480 1000SW	<0.1	1.43	<3	95	251	0.40	<0.1	<1	12	<1	1.63	0.31	0.44	304	<1	0.04	2	0.05	<2	125	<2	60	18	28	44
L1480 1025SW	<0.1	1.47	<3	98	144	0.41	<0.1	<1	11	<1	1.63	0.28	0.46	265	<1	0.03	<1	0.04	<2	99	<2	60	22	28	49
L1480 1050SW	0.3	3.50	>2000	323	149	0.69	<0.1	<1	38	<1	2.85	0.26	0.62	1288	<1	0.04	21	0.13	<2	74	<2	64	<5	54	104
L1480 1075SW	0.4	4.41	1936	440	148	0.90	<0.1	<1	45	1	2.47	0.23	0.70	1595	<1	0.03	38	0.15	<2	62	<2	80	15	57	147
L1480 1100SW	0.4	4.54	1377	444	142	0.91	<0.1	<1	45	<1	2.51	0.22	0.72	1568	<1	0.03	43	0.16	<2	58	<2	82	<5	62	150
L1480 1125SW	<0.1	1.95	438	224	52	0.60	<0.1	<1	36	2	2.15	0.15	0.52	726	<1	0.02	18	0.09	<2	17	<2	69	21	28	92
L1480 1150SW	<0.1	2.20	416	166	67	0.48	<0.1	<1	27	<1	2.21	0.16	0.60	513	<1	0.02	19	0.05	<2	24	<2	61	30	30	73
L1480 1175SW	0.1	2.54	420	263	63	0.74	<0.1	<1	31	<1	1.82	0.15	0.55	671	<1	0.02	32	0.12	<2	22	<2	76	9	35	93
L1480 1200SW	<0.1	1.68	43	187	19	0.48	<0.1	<1	23	<1	1.81	0.10	0.47	339	<1	0.02	24	0.07	370	21	<2	59	14	23	62
L1480 1225SW	<0.1	1.56	33	172	<3	0.39	<0.1	<1	16	<1	1.62	0.12	0.43	293	<1	0.02	8	0.05	529	8	<2	53	9	22	52
L1480 1250SW	0.6	3.43	23	438	<3	1.05	<0.1	<1	30	<1	2.18	0.12	0.53	909	<1	0.02	18	0.31	657	<2	<2	97	29	41	155
L1480 1275SW	0.1	3.22	6	371	<3	0.55	<0.1	<1	36	<1	2.54	0.15	0.63	810	<1	0.02	14	0.17	820	<2	<2	65	<5	42	110
L1480 1300SW	0.5	3.50	<3	450	<3	0.86	<0.1	<1	28	<1	2.28	0.15	0.55	1938	<1	0.03	20	0.22	1018	<2	<2	94	9	48	139
L1480 1325SW	0.1	3.68	<3	397	<3	0.52	<0.1	<1	35	<1	2.57	0.20	0.70	1460	<1	0.03	2	0.08	1683	<2	<2	66	28	49	101
L1480 1350SW	<0.1	2.69	200	287	84	0.91	<0.1	30	41	33	3.40	<0.01	0.62	736	20	<0.01	40	0.17	<2	139	21	133	<5	25	130
L1480 1375SW	<0.1	2.33	125	223	44	0.70	0.4	13	40	10	2.63	0.02	0.56	1091	6	<0.01	35	0.15	<2	82	9	91	<5	27	107
L1480 1400SW	0.1	1.59	27	121	<3	0.37	<0.1	<1	15	<1	1.78	0.10	0.41	283	<1	0.02	9	0.05	4397	8	<2	75	<5	22	56
L1480 1425SW	0.1	2.23	87	175	43	0.59	<0.1	<1	28	7	2.17	0.05	0.52	433	2	0.01	27	0.11	<2	59	5	100	28	27	91
L1480 1450SW	1.4	2.14	257	197	89	0.89	0.5	26	37	49	1.58	<0.01	0.27	564	21	<0.01	59	0.24	1175	159	22	92	<5	22	126
L1480 1475SW	<0.1	1.65	256	107	72	0.37	0.6	23	29	18	1.92	<0.01	0.41	343	12	<0.01	23	0.08	597	150	19	73	30	14	63
L1480 1500SW	0.3	3.25	184	276	24	0.77	<0.1	25	46	21	2.69	0.02	0.49	1626	17	<0.01	45	0.15	198	103	11	96	29	38	159
L1480 1525SW	0.9	5.12	448	324	111	0.20	<0.1	45	77	38	3.19	<0.01	0.70	593	35	<0.01	67	0.17	897	242	35	46	<5	59	162
L1480 1550SW	0.4	2.94	228	163	45	0.12	<0.1	8	39	20	2.25	0.03	0.43	379	9	<0.01	28	0.08	176	130	12	52	21	34	108
L1480 1575SW	<0.1	3.05	75	156	<3	0.20	<0.1	<1	38	11	2.44	0.11	0.51	396	2	0.02	32	0.07	<2	52	<2	58	94	40	106
L1480 1600SW	0.1	4.81	608	211	149	0.15	5.0	42	70	36	3.19	<0.01	0.67	752	30	<0.01	53	0.12	506	273	29	47	13	59	144
L1480 1625SW	0.3	4.00	287	194	85	0.16	<0.1	24	49	24	3.34	0.06	0.56	1352	11	0.01	33	0.09	138	108	12	59	24	52	147
L1480 1650SW	<0.1	3.82	892	193	87	0.22	<0.1	49	61	40	3.10	<0.01	0.60	1190	30	<0.01	49	0.10	433	333	27	53	38	45	140
L1480 1675SW	0.1	1.64	349	71	32	0.11	1.3	8	28	9	1.68	0.02	0.37	270	5	<0.01	25	0.05	62	131	10	41	70	21	70
L1480 1700SW	<0.1	1.55	65	72	52	0.16	0.6	<1	21	4	2.88	0.11	0.35	372	2	0.02	14	0.06	<2	15	9	73	<5	22	80
L1480 1725SW	<0.1	1.55	>2000	92	254	0.23	7.0	44	30	28	2.12	<0.01	0.33	345	27	<0.01	36	0.08	390	511	32	71	36	12	76
L1480 1750SW	<0.1	1.56	<3	91	<3	0.35	<0.1	<1	23	7	1.94	0.11	0.39	314	<1	0.02	17	0.07	<2	26	10	98	44	25	80
L1480 1775SW	<0.1	1.66	<3	89	292	0.22	<0.1	37	33	24	2.04	<0.01	0.43	358	24	<0.01	33	0.06	269	634	31	79	36	18	85
L1480 1800SW	0.1	3.18	<3	137	174	0.16	5.5	37	49	35	2.68	<0.01	0.51	651	31	<0.01	45	0.07	278	892	30	44	<5	41	147
L1480 1825SW	<0.1	2.34	<3	156	189	0.15	<0.1	13	37	16	2.12	0.01	0.40	496	11	<0.01	26	0.05	81	470	12	49	16	35	114
L1480 1850SW	0.3	4.04	<3	295	>1000	0.71	5.4	52	67	45	2.72	<0.01	0.66	866	37	<0.01	57	0.10	330	>2000	38	89	<5	49	177
L1480 1875SW	<0.1	1.57	<3	121	273	0.21	0.7	15	29	19	1.65	<0.01	0.32	323	11	<0.01	23	0.04	67	<2	16	57	16	25	83
L1480 1900SW	<0.1	1.94	9	90	<3	0.06	0.8	7	30	8	1.73	0.02	0.26	319	13	<0.01	21	0.06	57	<2	15	25	<5	30	90

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000
 < - Less Than Minimum) - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Raymond L.*

REPORT #: 900131 PA PAMICON DEVELOPMENTS LTD. PROJECT: MIRAMAR DATE IN: JULY 23 1990 DATE OUT: AUG 10 1990 ATTENTION: MR. STEVE TODORUK PAGE 6 OF 8

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L1480 1925SW	0.1	2.11	<3	93	<3	0.09	<0.1	29	38	21	1.90	<0.01	0.32	396	23	<0.01	32	0.08	196	<2	28	29	<5	26	113
L1530 000S	<0.1	1.58	58	195	119	0.13	1.3	17	24	14	1.42	1.53	0.20	1939	5	0.02	12	0.13	32	105	13	51	18	27	134
L1530 025S	<0.1	1.62	50	71	111	0.08	1.0	6	31	7	1.73	<0.01	0.33	277	4	0.03	26	0.06	9	51	9	28	35	28	109
L1530 050S	<0.1	2.84	23	57	30	0.29	<0.1	13	23	11	1.98	<0.01	0.58	590	12	0.03	21	0.06	60	29	17	58	8	49	126
L1530 075S	<0.1	3.27	82	34	176	0.46	<0.1	2	14	8	1.73	<0.01	0.54	560	9	0.08	6	0.08	7	119	14	91	22	58	127
L1530 100S	<0.1	3.11	113	44	137	0.57	<0.1	<1	12	2	1.77	<0.01	0.52	628	4	0.16	6	0.07	<2	160	10	115	27	59	141
L1530 125S	<0.1	2.07	128	38	103	0.06	<0.1	<1	19	<1	1.64	<0.01	0.27	249	1	0.23	19	0.05	<2	152	6	40	<5	49	95
L1530 150S	<0.1	1.52	145	51	163	0.08	<0.1	<1	18	<1	1.39	<0.01	0.19	313	<1	1.09	9	0.04	<2	194	<2	29	7	33	112
L1530 175S	<0.1	1.72	120	43	120	0.05	<0.1	<1	23	<1	1.45	<0.01	0.26	144	2	<0.01	14	0.04	<2	128	7	31	28	45	88
L1530 200S	<0.1	1.76	51	51	69	0.06	0.7	8	27	7	1.51	<0.01	0.28	165	8	<0.01	22	0.04	33	76	14	36	<5	31	105
L1530 225S	<0.1	2.08	70	62	52	0.04	0.3	10	31	8	1.67	<0.01	0.30	331	11	<0.01	23	0.04	32	64	14	28	8	42	134
L1530 250S	<0.1	1.52	66	70	67	0.08	1.6	7	24	8	1.27	<0.01	0.26	216	9	<0.01	19	0.03	24	65	12	55	9	30	112
L1530 275S	<0.1	1.46	45	79	50	0.05	1.7	11	19	12	1.10	0.04	0.18	186	11	<0.01	13	0.04	55	40	17	40	26	28	97
L1530 300S	<0.1	1.59	<3	62	38	0.06	<0.1	28	28	20	1.60	0.17	0.23	261	23	0.05	23	0.05	131	<2	26	37	<5	29	114
L1530 325S	<0.1	1.58	64	50	55	0.03	1.1	11	26	7	1.39	<0.01	0.24	174	9	<0.01	25	0.04	45	57	17	32	<5	38	91
L1530 350S	<0.1	1.54	52	39	49	0.03	0.6	11	29	7	1.43	<0.01	0.24	164	9	<0.01	21	0.04	52	52	14	35	<5	34	103
L1530 375S	<0.1	1.37	49	71	47	0.24	1.0	13	25	10	1.20	0.03	0.28	304	11	<0.01	20	0.03	52	51	17	75	19	25	118
L1530 400S	<0.1	2.27	27	73	29	0.45	9.3	24	25	19	1.63	0.06	0.48	801	18	<0.01	19	0.04	80	28	14	136	<5	59	148
L1530 425S	<0.1	1.87	53	52	65	0.14	<0.1	16	23	12	1.57	0.03	0.32	379	15	<0.01	18	0.04	65	42	17	59	31	44	124
L1530 450S	<0.1	1.44	23	56	17	0.09	<0.1	22	23	16	1.37	0.09	0.19	209	20	0.02	19	0.04	84	10	23	78	6	22	117
L1530 475S	<0.1	1.52	24	46	8	0.08	<0.1	25	28	21	1.38	0.09	0.19	237	22	0.02	32	0.03	97	11	24	35	33	33	126
L1530 500S	<0.1	1.61	49	50	36	0.05	<0.1	19	27	13	1.32	0.04	0.18	631	17	<0.01	23	0.04	66	33	19	27	93	38	157
L1530 525S	<0.1	2.50	<3	36	<3	0.17	24.2	44	29	29	1.81	0.17	0.40	447	36	0.04	27	0.07	174	<2	38	70	36	56	180
L1530 550S	<0.1	1.77	68	48	52	0.05	<0.1	13	25	11	1.41	0.01	0.22	352	15	<0.01	19	0.05	45	49	15	37	60	47	125
L1530 575S	<0.1	2.24	19	34	4	0.18	16.4	34	25	23	1.63	0.11	0.36	453	28	0.02	24	0.05	123	<2	32	123	<5	49	144
L1530 600S	<0.1	1.78	63	38	28	0.22	22.9	21	22	15	1.34	0.05	0.26	735	17	<0.01	18	0.05	70	39	21	107	<5	43	118
L1530 625S	<0.1	1.78	95	51	64	0.07	2.0	6	20	5	1.22	<0.01	0.21	474	7	<0.01	9	0.03	19	75	10	60	<5	70	129
L1530 650S	0.1	1.80	<3	75	<3	0.11	<0.1	4	31	2	2.55	<0.01	0.39	251	<1	<0.01	48	0.07	5	<2	<2	14	<5	<3	83
L1530 675S	<0.1	1.98	16	81	<3	0.16	4.8	13	25	15	2.41	0.03	0.36	282	11	<0.01	30	0.07	54	<2	<2	28	8	<3	98
L1530 700S	<0.1	2.70	17	118	13	0.05	4.3	14	41	16	2.88	0.02	0.43	280	10	<0.01	47	0.05	52	<2	<2	13	<5	<3	121
L1530 725S	<0.1	2.69	42	103	41	0.11	6.0	22	40	29	3.15	0.09	0.50	511	17	0.02	48	0.08	92	23	6	20	<5	<3	171
L1530 750S	0.1	2.29	44	131	45	0.10	9.5	24	48	36	3.14	0.13	0.51	249	22	0.04	58	0.10	115	36	8	17	<5	<3	126
L1530 775S	<0.1	1.88	46	105	38	0.09	9.9	27	44	37	2.12	0.12	0.48	391	20	0.04	63	0.05	120	35	11	17	10	<3	76
L1530 800S	0.1	1.82	50	97	54	0.08	7.9	25	43	37	2.44	0.14	0.39	290	22	0.04	44	0.11	121	39	12	12	17	<3	91
L1530 825S	0.1	2.15	52	125	46	0.09	10.9	28	47	40	2.78	0.14	0.51	547	22	0.04	61	0.11	127	39	13	16	5	<3	110
L1530 850S	0.1	1.88	52	139	48	0.09	10.9	28	49	39	2.86	0.15	0.50	370	23	0.04	67	0.14	126	42	16	18	<5	<3	106
L1530 875S	<0.1	2.11	44	103	37	0.06	8.4	25	53	37	2.87	0.12	0.55	230	21	0.03	63	0.08	113	35	13	13	8	<3	97
L1530 900S	<0.1	1.45	53	111	44	0.07	10.4	25	38	39	1.87	0.14	0.28	166	24	0.04	30	0.08	127	37	14	13	<5	<3	70
L1530 925S	<0.1	1.79	61	97	60	0.16	9.3	27	44	42	3.00	0.15	0.53	363	25	0.04	58	0.15	129	42	13	20	<5	<3	118

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000
 < - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Raymond*

REPORT #: 900131 PA PAMICON DEVELOPMENTS LTD. PROJECT: MIRAMAR DATE IN: JULY 23 1990 DATE OUT: AUG 10 1990 ATTENTION: MR. STEVE TODORUK PAGE 7 OF 8

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L1530 950S	<0.1	2.05	56	80	54	0.18	11.0	28	42	46	2.84	0.14	0.62	438	26	0.04	58	0.09	128	41	16	24	<5	<3	106
L1530 975S	<0.1	1.38	54	132	53	0.35	11.5	30	43	51	2.09	0.15	0.54	558	24	0.04	67	0.06	127	36	17	56	<5	<3	72
L1530 1000S	<0.1	1.70	56	117	41	0.14	10.4	27	44	45	2.24	0.14	0.47	381	25	0.04	59	0.08	125	38	14	28	<5	<3	89
L1550 000S	<0.1	2.11	54	183	41	0.44	11.5	28	44	45	2.82	0.15	0.65	647	25	0.04	60	0.09	132	37	13	69	<5	<3	124
L1550 025S	<0.1	1.58	53	148	50	0.12	8.5	27	47	43	2.75	0.13	0.49	440	23	0.04	64	0.10	117	32	15	22	<5	<3	87
L1550 050S	<0.1	2.15	50	158	47	0.13	12.2	26	47	43	3.26	0.13	0.52	294	24	0.03	58	0.13	118	35	13	34	<5	<3	122
L1550 075S	<0.1	2.17	47	124	49	0.11	11.5	26	49	42	2.82	0.12	0.57	299	22	0.03	64	0.07	111	25	12	18	<5	<3	87
L1550 100S	<0.1	3.57	46	96	36	0.66	9.9	28	35	51	3.12	0.13	0.98	837	23	0.03	54	0.09	114	29	15	55	<5	<3	112
L1550 125S	<0.1	2.45	46	91	36	0.20	10.5	25	33	43	2.87	0.12	0.48	460	23	0.03	46	0.07	114	28	13	28	<5	<3	113
L1550 150S	<0.1	2.29	46	92	39	0.08	9.7	26	39	40	2.75	0.12	0.38	279	24	0.03	47	0.08	116	27	12	18	8	<3	125
L1550 175S	<0.1	2.32	42	70	21	0.11	9.8	24	37	40	2.62	0.11	0.41	248	21	0.03	53	0.08	110	22	9	22	21	<3	142
L1550 200S	<0.1	1.60	39	74	29	0.07	5.6	20	33	35	2.30	0.09	0.31	224	20	0.03	41	0.10	99	15	6	16	21	<3	83
L1550 225S	<0.1	1.61	36	83	14	0.07	9.6	22	33	36	2.08	0.10	0.31	191	21	0.03	44	0.05	102	17	8	18	18	<3	73
L1550 250S	<0.1	1.89	34	124	34	0.10	7.7	22	40	39	2.48	0.10	0.45	212	20	0.02	56	0.08	100	16	7	23	<5	<3	91
L1550 275S	<0.1	2.18	44	87	29	0.12	8.5	23	45	40	2.92	0.09	0.54	293	22	0.02	60	0.09	100	16	5	23	17	<3	101
L1550 300S	<0.1	2.24	42	96	31	0.11	7.8	24	43	40	2.80	0.10	0.49	293	21	0.02	54	0.08	100	18	9	23	25	<3	111
L1550 325S	<0.1	1.81	39	89	24	0.12	8.1	24	47	43	2.47	0.10	0.55	309	22	0.03	70	0.08	103	14	9	26	38	<3	81
L1550 350S	<0.1	2.03	34	95	13	0.09	8.1	20	39	33	2.76	0.07	0.47	310	18	0.02	45	0.08	88	5	6	21	11	<3	98
L1550 375S	<0.1	1.62	39	93	29	0.12	9.3	22	34	37	2.99	0.09	0.43	346	20	0.02	45	0.06	94	11	10	25	16	<3	85
L1550 400S	<0.1	2.53	31	85	15	0.20	9.2	20	39	36	3.07	0.10	0.63	735	17	0.02	51	0.06	87	4	8	27	<5	<3	100
L1550 425S	<0.1	1.58	34	87	9	0.28	8.0	21	30	40	2.59	0.12	0.45	422	20	0.02	63	0.06	94	7	10	37	11	<3	97
L1550 450S	<0.1	1.55	34	126	9	0.13	7.6	20	34	33	2.51	0.11	0.40	464	18	0.02	46	0.07	86	<2	9	21	20	<3	89
L1550 475S	<0.1	1.47	40	113	22	0.09	8.4	22	32	39	2.60	0.12	0.34	530	22	0.02	46	0.07	97	9	11	33	51	<3	108
L1550 500S	<0.1	3.30	34	74	20	0.57	10.5	23	29	45	3.24	0.12	0.75	767	21	0.02	47	0.10	94	10	9	91	24	<3	137
L1550 525S	<0.1	2.78	68	95	9	0.13	9.7	25	43	49	3.35	0.13	0.55	379	25	0.02	75	0.07	103	47	14	22	44	<3	125
L1550 550S	<0.1	2.42	40	100	<3	0.09	8.2	21	34	41	2.75	0.12	0.40	340	21	0.02	49	0.06	93	18	11	18	22	<3	110
L1550 575S	<0.1	2.68	27	98	6	0.23	8.6	22	29	42	3.19	0.11	0.58	564	20	0.02	42	0.10	91	<2	12	34	84	<3	134
L1550 600S	<0.1	2.29	11	73	<3	0.09	7.7	20	32	37	2.75	0.10	0.38	335	19	0.02	47	0.08	86	<2	10	16	<5	<3	125
L1550 625S	<0.1	2.19	15	78	<3	0.08	6.5	20	31	35	2.56	0.10	0.35	331	18	0.02	41	0.07	85	<2	8	20	>100	<3	85
L1550 650S	<0.1	2.10	30	93	<3	0.10	8.3	21	32	39	2.75	0.12	0.39	350	21	0.02	43	0.07	96	7	12	23	>100	<3	104
L1550 675S	<0.1	2.39	43	110	<3	0.09	6.9	21	31	38	2.43	0.11	0.39	518	20	0.02	47	0.10	89	<2	10	20	>100	<3	104
L1550 700S	<0.1	2.35	50	89	<3	0.08	8.7	22	32	39	2.75	0.11	0.41	353	20	0.02	50	0.06	91	<2	10	17	56	<3	95
L1550 725S	<0.1	2.32	7	107	<3	0.10	9.0	21	32	36	2.61	0.10	0.39	405	18	0.02	44	0.06	87	<2	7	20	72	<3	104
L1550 750S	<0.1	2.27	8	114	<3	0.09	8.4	20	35	35	2.65	0.10	0.41	440	19	0.02	48	0.07	83	<2	8	19	35	<3	100
L1550 775S	<0.1	2.22	<3	122	<3	0.15	6.5	19	33	34	2.48	0.10	0.37	266	19	0.02	46	0.08	84	<2	11	24	>100	<3	121
L1550 800S	<0.1	2.44	33	136	<3	0.07	8.5	22	43	40	3.33	0.11	0.50	350	19	0.02	59	0.08	89	16	12	15	<5	<3	142
L1550 825S	<0.1	2.13	35	124	<3	0.12	7.4	22	46	42	2.71	0.11	0.59	330	19	0.02	74	0.09	90	<2	12	19	30	<3	92
L1550 850S	<0.1	1.80	33	149	<3	0.11	7.7	21	38	40	2.33	0.11	0.43	183	19	0.02	53	0.08	92	<2	12	18	47	<3	90
L1550 875S	<0.1	2.27	13	128	<3	0.06	8.8	21	42	39	2.87	0.11	0.46	247	20	0.02	59	0.08	89	5	9	11	>100	<3	99

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1
Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000
< - Less Than Minimum) - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

VAN GEOCHEMICAL LIMITED

1630 Pandora Street, Vancouver, B.C. V5L 1L6

Ph: (604)251-5656 Fax: (604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Raymond G.*

REPORT #: 900131 PA PAMICON DEVELOPMENTS LTD. PROJECT: MIRAMAR DATE IN: JULY 23 1990 DATE OUT: AUG 10 1990 ATTENTION: MR. STEVE TODORUK PAGE 8 OF 8

Sample Name	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
L1550 900S	<0.1	1.82	14	94	<3	0.06	7.9	20	39	38	2.05	0.10	0.42	175	19	0.02	52	0.06	87	<2	10	12	<5	<3	78
L1550 925S	<0.1	2.10	29	99	<3	0.06	8.2	20	40	39	2.72	0.11	0.38	225	20	0.02	54	0.08	88	<2	9	12	<5	<3	102
L1550 950S	<0.1	2.18	27	117	<3	0.08	8.0	21	42	37	3.06	0.10	0.48	251	19	0.02	60	0.09	84	<2	8	15	>100	<3	114
L1550 975S	<0.1	2.00	39	115	<3	0.09	7.9	22	43	42	3.24	0.12	0.47	337	21	0.02	58	0.15	94	6	9	16	80	<3	111
L1550 1000S	<0.1	2.48	47	119	<3	0.13	7.1	22	44	41	2.92	0.11	0.61	341	18	0.02	59	0.09	88	<2	11	24	77	<3	120

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000
 < - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

APPENDIX VI

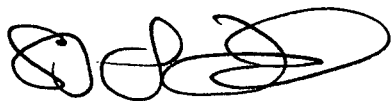
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, STEVE L. TODORUK, of 5700 Surf Circle, Sechelt, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Geologist in the employment of Pamicon Developments Limited, with offices at Suite 711, 675 West Hastings Street, Vancouver, British Columbia.
2. THAT I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology.
3. THAT my primary employment since 1979 has been in the field of mineral exploration.
4. THAT my experience has encompassed a wide range of geologic environments and has allowed considerable familiarization with prospecting, geophysical, geochemical and exploration drilling techniques.
5. THAT this report is based on data generated by myself, under the direction of Charles K. Ikona, Professional Engineer.
6. THAT I have no interest in the property described herein, nor in securities of any company associated with the property, nor do I expect to acquire any such interest.
7. THAT I consent to the use by Miramar Mining Corp. of this report in a Prospectus or Statement of Material Facts or any other such document as may be required by the Vancouver Stock Exchange or the Office of the Superintendent of Brokers.

DATED at Vancouver, B.C., this 9th day of November, 1990.



Steve L. Todoruk, Geologist

APPENDIX VII

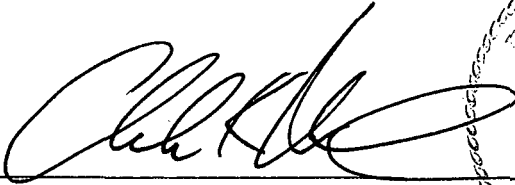
ENGINEER'S CERTIFICATE

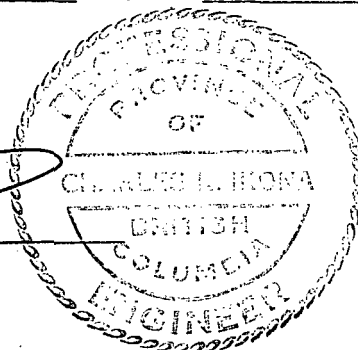
ENGINEER'S CERTIFICATE

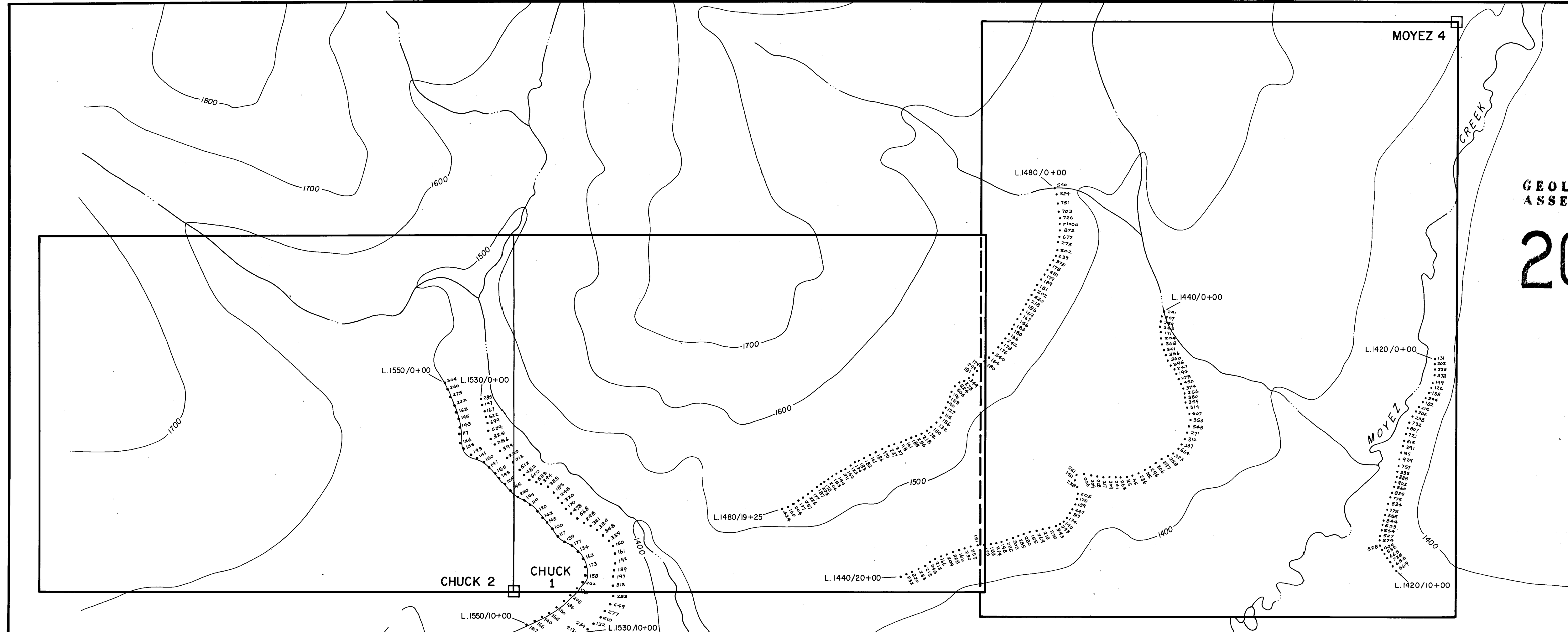
I, CHARLES K. IKONA, of 5 Cowley Court, Port Moody, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Mining Engineer with offices at Suite 711, 675 West Hastings Street, Vancouver, British Columbia.
2. THAT I am a graduate of the University of British Columbia with a degree in Mining Engineering.
3. THAT I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
4. THAT this report is based on all available data on the property and on work conducted under my direction in 1985 and 1986 by D. Yeager, Geologist and S. Todoruk, Geologist of our office.
5. THAT I have no interest in the property described herein, nor in securities of any company associated with the property, nor do I expect to acquire any such interest.
6. THAT I consent to the use by Miramar Mining Corp. of this report in a Prospectus or Statement of Material Facts or any other such document as may be required by the Vancouver Stock Exchange or the Office of the Superintendent of Brokers.

DATED at Vancouver, B.C., this 9th day of Nov, 1990.


Charles K. Ikona, P.Eng.

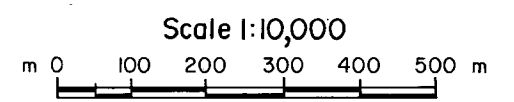




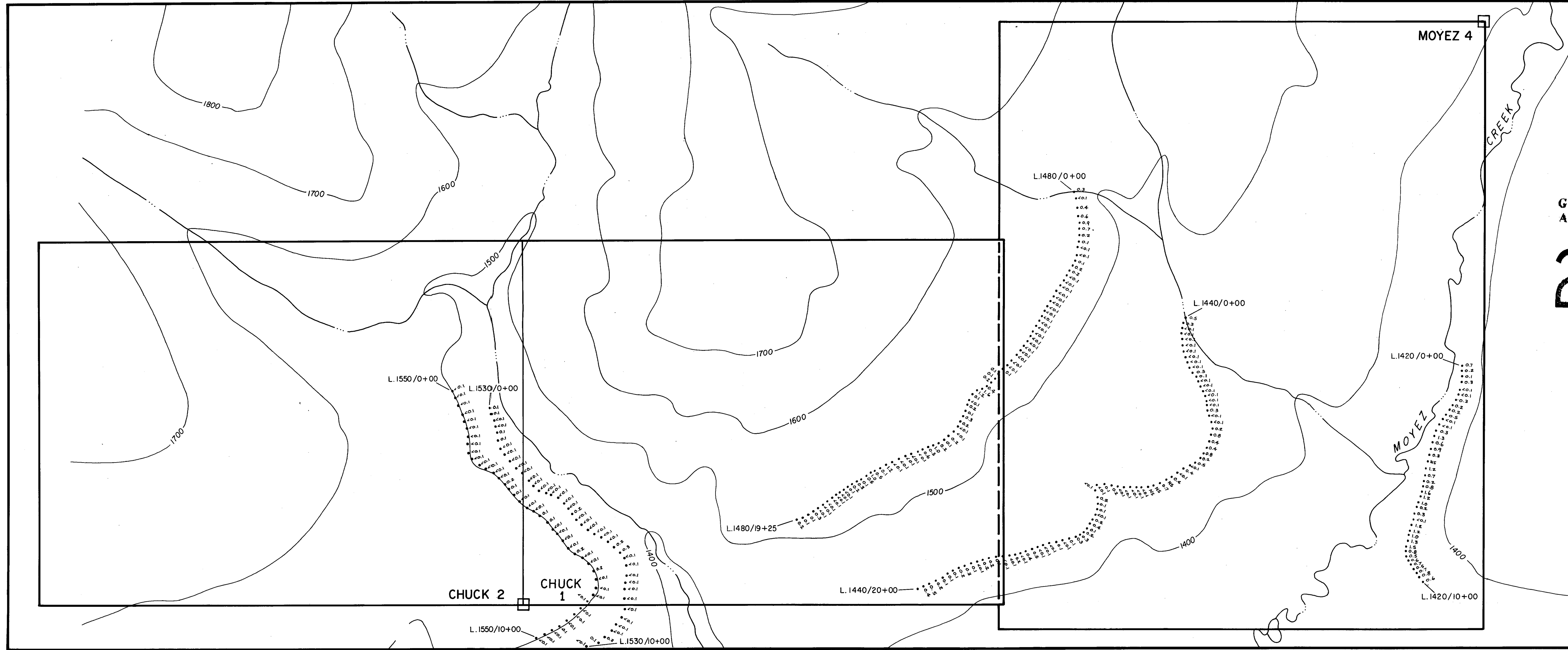
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,535

732 • SOIL SAMPLE LOCATION
(VALUES IN PPM Ba)



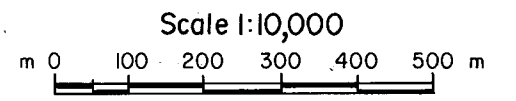
MIRAMAR ENERGY CORP.			
CHUCK 1 & 2, MOYEZ 4 CLAIMS			
1990 GEOCHEM.			
SAMPLING RESULTS			
Ba IN P.P.M.			
LIARD MINING DIVISION, B.C.			
PAMICON DEVELOPMENTS LTD.			
DRAWN. J.W.	N.T.S. 94E/6E/6W,11W	DATE Nov. 1990	FIG 6



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,535

1.6 • SOIL SAMPLE LOCATION
(VALUES IN PPM Ag)

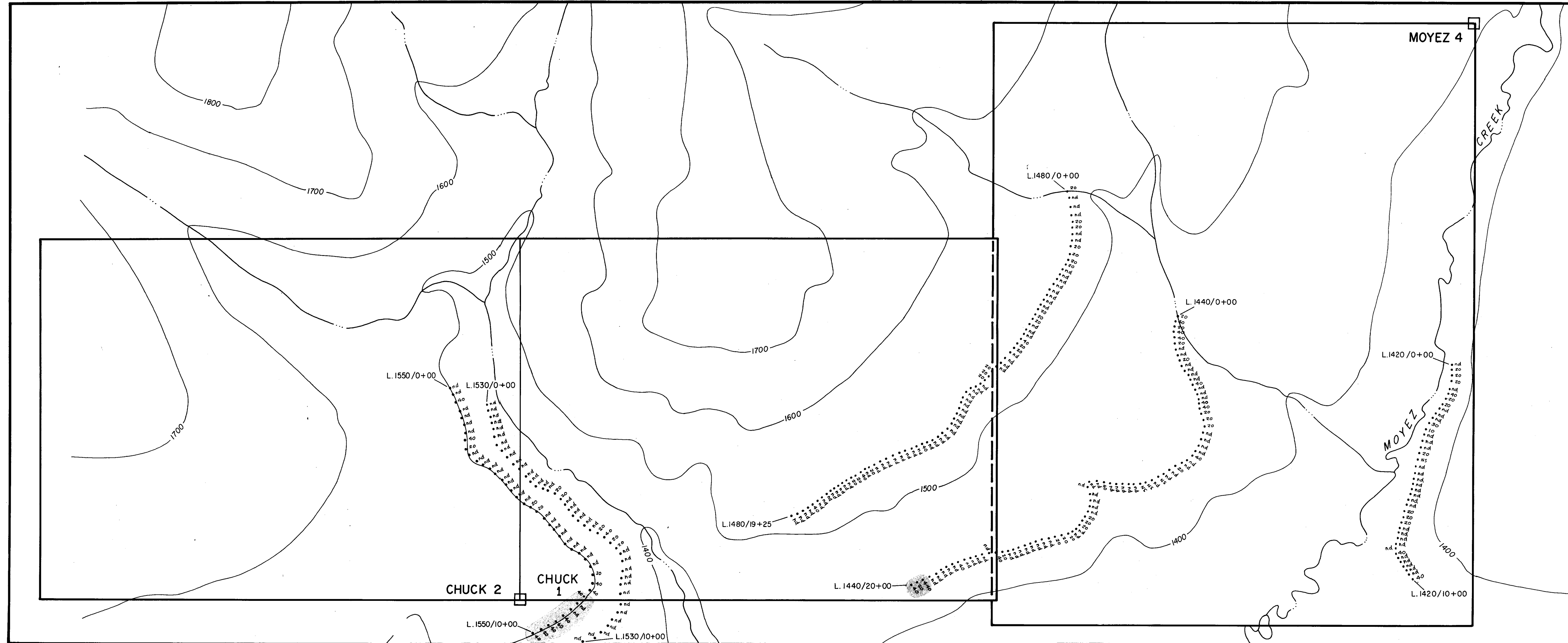


MIRAMAR ENERGY CORP.
CHUCK 1 & 2, MOYEZ 4 CLAIMS
1990 GEOCHEM.
SAMPLING RESULTS
 Ag IN PPM.
 LIARD MINING DIVISION, B.C.

PAMICON DEVELOPMENTS LTD.

DRAWN. J.W.	N.T.S. 94E/6E/6W,11W	DATE. Nov. 1990	FIG 5
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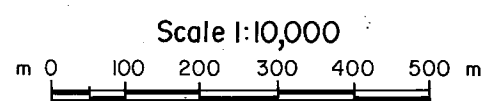




GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,535

20 • SOIL SAMPLE LOCATION
(VALUES IN P.P.B. Au)



MIRAMAR ENERGY CORP.			
CHUCK 1 & 2, MOYEZ 4 CLAIMS			
1990 GEOCHEM.			
SAMPLING RESULTS			
Au IN P.P.B.			
LIARD MINING DIVISION, B.C.			
PAMICON DEVELOPMENTS LTD.			
DRAWN.	N.T.S.	DATE.	FIG.
J.W.	94E/6E/6W, IIV	Nov. 1990	4

