

83-# 323 -# 11569
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1983 Assessment Report

Geological, Geochemical and Geophysical Survey

Title: ROCK CLAIM GROUP

Claims: ROCK 2, ROCK 3, ANITA, OLD KENTUCKY

Commodity: Silver, Gold

Location: Conkle Creek - West Kettle River Area
32 km south of Beaverdell
82 E 3E 49° 11'N 119° 01'W

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Work Dates: April 18, 1983 to May 9, 1983

Submittal Date: August 9, 1983

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,569

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1983 Assessment Report
Geological, Geochemical and Geophysical Surveys
on the
ROCK MINERAL CLAIMS

PART A

SUMMARY

The Rock mineral claims are located 32 km south of Beaverdell and 12 km northeast of Camp McKinney where placer gold and lode gold deposits were worked since 1894 and where one property has produced \$1,000,000 in gold from 1894 to 1903. Camp McKinney claims were periodically explored since 1903 with active exploration in 1982 and reported encouraging results in an area of sedimentary rocks and greenstones.

The Rock mineral claims are indicated to predominantly cover the Kettle River formation of acidic tuffs and sediments including shales which in other areas are known to include small plugs of porphyritic rhyolite which apparently mark volcanic vent zones. The Anarchist group which hosts the Camp McKinney deposits also occurs on the property in addition to an intrusive.

An exploration program consisting of geophysical, geochemical and geological surveys completed over the property by Quinella Exploration Ltd. during April and May 1983 disclosed six major geophysical and geochemical correlative anomalous areas, two of which - A and B - are adjacent and prime exploration areas. The two zones cover an area of 700 by 350 meters and include the Old Kentucky workings situated on a former crown granted mineral claim.

Geological mapping and sampling by Hall in the recent exploration program disclosed quartz veining and related sulphides hosted by mafic volcanic rocks with quartz feldspar porphyry in the immediate area. Samples of the quartz-sulphide zones returned assays up to 0.04 oz Au/ton, 0.058 oz Ag/ton, and 0.56% Zn across 1.0 meters.

CONCLUSIONS

The Rock and included mineral claims of the Quinella Exploration property occur in a geologically favorable area for the occurrences of economic gold-silver zones comparable to those at Camp McKinney. The geological indications on the Quinella property have been determined to contain similarities in the mafic volcanic rocks hosting quartz and/or carbonate veins with related sulphides.

In addition to the known mineralization on the property which has been delineated by correlative geochemical anomalies in the recent exploration program, the other prime anomalous areas that have been outlined may reflect more significant mineral zones.

The correlative anomalous areas in which perimeter E.M. anomalies occur would be of greater significance in that the anomalies may reflect the sheared contact between volcanic and sedimentary units. This contact zone would be prime exploration area in a porphyrite gold environment.

Secondly of interest would be E.M. anomalous zones with an adjacent minor geochem anomalies as anomaly "G" where a mineral zone may be expressed however in a heavily overburdened area.

The controlling structure to the zones is northeasterly-southwesterly with possible north-south secondary structures as indicated at the Old Kentucky workings and more so in the geochemical-geophysical anomalous expression.

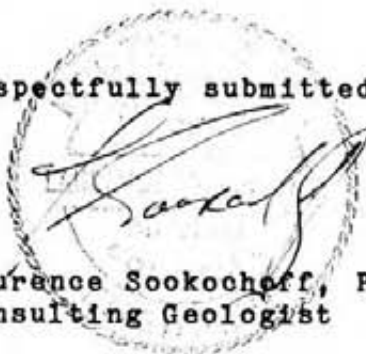
RECOMMENDATIONS

It is recommended that an exploration program of detailed and additional recce geophysical, geochemical and geological surveys be initiated.

The recce surveys would be carried out in the west-northwestern sector of the property to explore for additional northeasterly trending zones containing coincident geochemical anomalous areas.

The detailed surveys would be over the six correlative areas as indicated to locate prime target areas for trenching, sampling and/or diamond drill testing.

Respectfully submitted,



Laurence Sookocheff, P.Eng.
Consulting Geologist

August 8, 1983
Vancouver, B.C.

1983 Exploration Program
Geological, Geochemical and Geophysical Surveys
on the
ROCK MINERAL CLAIMS

PART B

INTRODUCTION

During April and May 1983 a mineral exploration program consisting of a magnetometer and E.M. Survey in conjunction with geochemical and geological surveys were carried out on the Rock mineral claims.

The exploration program on the property was initiated on the basis of a recommendation in a letter report dated April 11, 1983.

The information for this report was obtained from pertinent information as cited under bibliography, from a property examination carried out on April 25, 1983 from B.V. Hall who carried out the geological mapping and sampling, and from the supervision of the exploration program.

PROPERTY

The property consists of four contiguous claims one of which is a reverted crown grant. Particulars are as follows:

<u>Claim Name</u>	<u>Unit</u>	<u>Record No.</u>	<u>Expiry Date *</u>
Rock 2	15	3498	February 18, 1987
Rock 3	15	3499	February 18, 1987
Anita	30	3520	February 23, 1988
Old Kentucky		3463	February 7, 1988

Due to the overlapping of the Anita on the Rock claims and the inclusion of the Old Kentucky claim, the property consists of an effective area of 30 units or 750 hectares.

As the exact location of the Old Kentucky and Jo Dandy claims were not located in the field but were only plotted from claim and topo maps, their location is considered approximate.

• The expiry date is upon the application and acceptance of the assessment work, the results of which are reported on herein.

The assessment work filing was on June 17, 1983 and was for 3 years to be applied to the Rock 2 and Rock 3 claims and for 4 years to the Anita and Old Kentucky claims.

LOCATION AND ACCESS ($49^{\circ} 11'N$, $119^{\circ} 01'W$)

The property is located 32 km south of Beaverdell, 12 km northeast of Camp McKinney and 14 km north of Rock Creek within map sheet 82E 3E in central southern British Columbia.

Rock Creek, the nearest commercial centre is 453 km east of Vancouver and 100 km east of Penticton and 144 km west of Castlegar, two major centres which are served daily by Pacific Western Airlines.

Access from Rock Creek is for 18 km northward via Highway 33 through Westbridge to the Conkle Lake road branching off to the west. At a distance of one km, a secondary road branches off to the south. The Anita legal corner post is two km to the south.

PHYSIOGRAPHY AND CLIMATE

The property covers an area of moderate to steep forested slopes arising from a north south valley along the east at an elevation of 760 meters. Elevations at the height of land along the central western boundary are up to 1375 meters.

The general climate of the area would allow a snow free surface exploration program of up to nine months of the year at the lower elevations.

WATER AND POWER

Sufficient water for all phases of the exploration season would be available from tributaries of Conkle Creek to the north or Ed James Creek to the south which extend on to the property.

Diesel-electric power would be initially required for the exploration and development program. A major transmission line is within two km to the south with a natural gas pipeline 11 km to the south.

HISTORY

Claims within Camp McKinney were periodically worked from 1903 to 1962 when gold-silver ore was shipped to the Trail smelter, and thereafter. McKinney Resources Inc. presently holds many of the old crown granted mineral claims of Camp McKinney with further exploration work reported to be continued in 1983.

The history of the immediate area centers around the placer deposits of McKinney Creek and the mines at Camp McKinney, 12 km southwest.

Camp McKinney was one of the early lode gold camps of British Columbia with one property, the Cariboo, producing over \$1,000,000 in gold largely between 1894 and 1903. A number of other properties were developed but none of these produced important amounts of ore.

On the Jo Dandy crown grant (L 2120) which is enveloped by but not included in the Quinella property, work completed prior to 1927 included shaft and two crosscut tunnels which were driven to explore a schist bearing gold-silver-lead-zinc mineralization.

The history of the Quinella property centres around the Old Kentucky claim on which bulldozer and rock trenches and diamond drilling were carried out. The period that this exploration work was completed and the individuals or companies that performed the work is not known.

GEOLOGY AND MINERALIZATION

The general geology of the area is of predominantly the Permian Anarchist Group overlain by minor localized areas of the Cenozoic Kettle River Formation and to a greater extent, and the youngest rocks of the area, the Phoenix volcanic group. The Cretaceous Nelson Plutonic Rocks intrude the Anarchist group as stocks or plugs which are also overlain by the Kettle River and Phoenix groups.

The Anarchist group in the Camp McKinney area consists very largely of highly metamorphosed sedimentary rocks but includes also altered greenstones and possibly also altered intrusive rocks. The sedimentary members of the group are the altered equivalents of quartzite, slate and limestone, micaceous quartzites, mica schists, and crystalline limestone. The sheared greenstones possibly represent both intrusive and extrusive types.

A second group of rocks within the Anarchist series are light grey, granitic rocks, quite generally gneissic, the outcrops of which have in some cases a slightly rusty appearance. Quartz and microcline predominate with orthoclase and albitic-oligoclase generally present. These granitic rocks are intrusive into the schists of the Anarchist series.

Another group of rocks within the Anarchist series consists of sheared basic intrusives which can in local areas be represented as serpentine with considerable pyrite development in association with shear zones.

Feldspar porphyry "dykes" are also common in the area. The rock is described as a "pale pink to flesh colored, fine grained rock with granitic texture. Quartz is fairly common and feldspar, shreds of biotite, hornblende, small individuals of apatite and some iron ore make up the balance of the rock."

The Kettle River formation consists of acidic tuff and local basins of conglomerate and sandstone. In the general Rock Creek area southeast of Camp McKinney "small plugs of porphyritic rhyolite with quartz phenocrysts apparently mark the vents from which some of the acidic tuff was emitted.

The Phoenix volcanic group which overlies the Kettle River formation consists mainly of andesitic and trachytic lavas, but locally contains interbedded sediments.

The gold bearing mineral zones at Camp McKinney are mainly of quartz veins occurring in the schists of the Anarchist series and in general paralleling the strike and dip of the schistosity. The quartz veins are mineralized with pyrite accompanied by galena and zinc blende and carry in places good values in gold. With only pyrite in the veins, the gold values are low.

South of Camp McKinney, gold mineralization is associated with shear zones within volcanic rocks with little or no quartz. The zones are "from 3 to 4 feet wide" and are impregnated with considerable amounts of ankeritic carbonates. Abundant pyrite is disseminated throughout the rock in the vicinity of the shear zones.

Placer gold has been derived from the creeks in the Camp McKinney area - the more significant ones being McKinney and Rock Creeks.

On the Jo Dandy (L 2120) enveloped by the Quinella property, the geology and mineralization is described in the 1927 Minister of Mines Report as:

... "The rock in which this work has been done is a highly metamorphosed schist of unknown age. An intrusive porphyry dyke cuts this formation on the west flank about 100 feet from the shaft. As far as can be seen, the schists continue for half a mile to the east and for a mile north and south. The strike of this schist is about north and south (mag.) with a dip of 20 to the west. Samples of this ore taken from different parts of the upper and lower tunnel assayed from a trace to 0.05 oz in gold to the ton; from 1.4 to 1.9 oz in silver to the ton; from 4 to 10 per cent in lead; and from 2 to 11 per cent in zinc. The size of the veins, etc. appear to vary from 1/2 to 24 inches. Owing to the highly metamorphosed and consequent serpentinization of the schists and ore bodies, it is almost impossible to distinguish the difference between ore and waste..."

The Quinella property as indicated from Map 15-1961 Kettle River Geology West Half, is underlain predominantly by the Kettle River formation in contact with the Anarchist group to the east and a local intrusive in the northwest corner.

The geology and mineralization of the Old Kentucky workings is described by Hall in an appended report.

GEOCHEMICAL SURVEY

1. Survey Procedure

A grid system of east-west lines at 150 meter intervals was established covering most all of the eastern portion of the property as indicated on accompanying Figure 3.

Samples were picked up at 50 meter intervals along the main grid lines. Samples were selected from the B horizon of the brown to brownish gray sandy-loam forest soil at a depth of commonly 30 centimeters. The soil was placed in a brown wet-strength paper bag with the grid co-ordinates marked thereon. A total of 554 soil samples were analysed.

2. Testing Procedure

All samples were tested by Acme Laboratories of Vancouver, B.C. The testing procedure was first to thoroughly dry the sample. (The samples were not sifted.) Then .500 grams of material is digested with 3 ml. of 3:1:3 HCL to HNO₃ to H₂O at 90 deg. more or less for one hour. The sample is diluted to 10 mls. with water. The samples were then analysed by atomic absorption for five metals - zinc, silver, lead, arsenic and antimony.

3. Treatment of Data

In assessing the data results, the background, sub-anomalous and anomalous values were determined utilizing a pocket calculator with a mean and standard deviation read-out.

The sub-anomalous threshold value, which is a value not considered anomalous, but an indicator of potential mineralization, is taken as one standard deviation from the mean background value. The anomalous values or the prime indicator values are taken at two standard deviations from the mean background values.

The results of the data treatment were as follows:

	Sb	As	Ag	Pb	Zn
Mean background value	2	3	0.1	20	74
Sub-anomalous threshold value	3	5	0.2	68	135
Anomalous threshold value	4	7	0.3	116	196

All values are in parts per million.

GEOPHYSICAL SURVEY

VLF-EM

A Sabre Model 27 VLF-EM Receiver instrument manufactured by Sabre Electronics of Vancouver was utilized in the VLF-EM survey.

The VLF-EM Receiver measures the amount of distortion produced in a primary transmitted magnetic field - in this case Seattle at a frequency of 24.6 Khz - and a secondary magnetic field which may be induced by a conductive mass such as a sulphide body. The VLF-EM unit - due to its relatively high frequency - can detect low conductive zones such as fault or shear zones, carbonaceous sediments or lithological contacts.

The major disadvantage of the VLF method, however is that the high frequency results in a multitude of anomalies from unwanted sources such as swamp edges, creeks and topographical highs.

In processing the field results, the VLF-EM readings were Fraser Filtered. This method transforms the somewhat noisy, noncontourable dip-angle data into less noisy, contourable data. The positive values are only contoured with the conductive zones represented as peaks in positive values.

MAGNETOMETER SURVEY

The magnetometer survey was carried out utilizing a Model G-10 fluxgate magnetometer manufactured by Geotronics Instruments of Vancouver.

All rocks contain some magnetite from very small fractions of a percent up to several percent, and even several tens of percent in the case of magnetic iron deposits. The distribution of magnetite or certain characteristics of its magnetic properties may be used in exploration or mapped for other purposes.

The anomalies from naturally occurring rocks and minerals are due chiefly from the presence of the most common magnetic mineral magnetite or of related minerals including ilmenite and pyrrhotite (with sulfide mineralization).

Magnetic anomalies in the earth's magnetic field are caused by two different kinds of magnetism: induced and remanent. Induced magnetization refers to the action of the field on the material wherein the ambient field is enhanced and the material itself acts as a magnet.

The proportion of magnetism is related to the magnetic susceptibility of the material. Typically, more basic igneous rocks have a higher susceptibility than the acid igneous rocks; the latter in turn have a higher susceptibility than sedimentary rocks.

The remanent magnetization is often the predominant magnetization (relative to the induced magnetization) in many igneous rocks. The remanent mineralization is important in geological mapping.

Magnetic minerals may also occur in association with sulphide zones or may be decomposed through the action of dynamic or thermal metamorphism. Thus the survey results could indicate lithology structure, alteration patterns and most significantly, mineral zones in a favorable geological environment.

From the field data, an average determined value of 54,000 gammas was subtracted from each reading and the results were contoured on 500 gamma intervals.

RESULTS OF THE 1983 EXPLORATION PROGRAM

The results of the geochemical, geophysical and geological surveys completed by Quinella Exploration Ltd. during May 1983 are indicated in the accompanying maps 4 to 12. In figure 11 the anomalous areas are indicated and represented in correlative form. The results of the surveys have indicated six prime exploration areas. These areas as cross referenced to Figure 11 are:

- "A" Anomalous area A contains correlative anomalies over an area of 250 by 150 meters and which includes the former workings of the Old Kentucky claim. The general anomalies over this area include, Pb and zinc with more localized anomalies of Ag in the western portion (workings area) and Ag and As in the eastern portion.
- "B" Anomalous area B contains correlative anomalies over an area 450 meters long (northeasterly) by one to three hundred meters wide. The correlative anomalies are of Pb, Ag Zn in one section overlapping southwestward to Ag Zn and As with an included E.M. anomaly eastward to a central Zn and Sb and adjacent to the east to a localized Ag, Zn As and Pb flanked by an eastern E.M. anomalous zone.
- The 450 meter long anomaly is also flanked by an intermittent en echelon E.M. anomalous zone to the west.
- "C" A northerly trending zone of 75 meters by 250 meters. The correlative is of As, Sb and Ag in the north with Ag and Sb in the south.
- "D" A northeasterly trending Ag one in the central south 900 meters along strike from the main zone "A" correlative As in the northern part flanked by a mag high with As and Sb in the southern section.
- "E" A 250 meter northerly trending zone 400 meters along strike from anomaly "A" with correlative Ag and As in addition to a flanking E.M. anomaly to the east.

"F" A localized general Ag, Pb, As anomalous area in the southwestern corner of the property within and bounded by a magnetometer high.

"G" A localized Ag and Zn anomaly 400 meters south of Anomaly "B". A flanking E.M. anomaly to the east extends as a prime and secondary anomaly for 1,500 meters through the surveyed area.

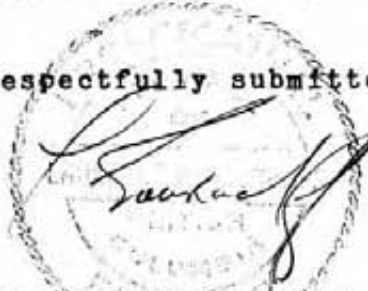
The results of the geological mapping are herein appended in a report by B.V. Hall who carried out the geological survey.

A northeasterly trending controlling structure which generally correlates with the magnetic north described in the Minister of Mines 1927 report, is indicated from the exploration results. The controlling mineral structure could possibly occur within schists or shear zones conformable to bedding or sedimentary-volcanic contacts, however additional field work would be required to provide the necessary interpretive information.

RECOMMENDED EXPLORATION AND DEVELOPMENT PROGRAM

It is recommended that the follow-up exploration program on the Quinella property be carried out in the four stages in the areas as designated on the accompanying compilation map (Figure 11) in addition to reconnaissance surveys over unexplored areas. The first stage would consist of detailed geophysical and geochemical surveys to delineate prime target areas for trenching, mapping and sampling. Reconnaissance geological mapping should also be completed in areas peripheral to anomalous zones.

Respectfully submitted,



Laurence Sookchohoff, P.Eng.
Consulting Geologist

August 9, 1983
Vancouver, B.C.

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CERTIFICATE

I, Laurence Sookochoff, of the City of Vancouver, in the Province of British Columbia, do hereby certify:

That I am a Consulting Geologist with the firm of Pan-American Consultants Ltd. of 1406-1055 West Georgia Street, Vancouver, B.C.

I further certify that:

1. I am a graduate of the University of British Columbia (1966) and hold a B.Sc. degree in Geology.
2. I have been practising my profession for the past seventeen years.
3. I am registered with the Association of Professional Engineers of British Columbia.
4. The information for this report was obtained from sources as cited under bibliography, from the supervision of the exploration program reported on herein and from a property examination carried out on April 25, 1983.
5. Neither I or Pan-American has direct or indirect interest in the property described herein nor in the securities of Quinella Exploration Ltd.

August 9, 1983
Vancouver, B.C.

Laurence Sookochoff, P.Eng.
Consulting Geologist



QUINELLA EXPLORATION LTD.

1983 Assessment Report

Geological, Geochemical and Geophysical Surveys

AFFIDAVIT OF EXPENSES

The geological, geochemical and geophysical surveys were carried out on the Rock 2, Rock 3, Anita and Old Kentucky mineral claims, Greenwood M.D., B.C. from April 18, 1983 to May 9, 1983 to the value of the following:

Geophysical Survey

Field work

M. Klein and A. Kabatoff 14 man/days @ \$125	\$1,750	
Room and board 14 man days @ \$30	420	
Vehicle rental, gas and mileage	530	
Instrument rentals	<u>500</u>	\$3,200

Geochemical Survey and grid

Field work

M. Klein and A. Kabatoff 14 man/days @ \$125	\$1,750	
Room and board 14 man days @ \$30	420	
Vehicle rental, gas and mileage	630	
Field supplies	300	
Assaying	<u>4,200</u>	\$7,300

Geological Survey

re: B.V. Hall M. Sc.		2,750
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Engineering and Supervision

L. Sookochoff, P.Eng. 4 days @ \$400	\$1,600	
Expenses	<u>580</u>	2,180

Report

Data compilation, draughting and printing	\$1,570	
Report	<u>1,800</u>	3,370

Office overhead

Secretarial, photocopy etc.		<u>700</u>
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\$19,500

APPENDIX "A"

B.V. Hall
115-1999 Nelson Street
Vancouver, B.C.
V6C 1N4

June 3, 1983

Quinella Exploration Ltd.
10th Floor 595 Howe Street
Vancouver, B.C.

Attention: The Board of Directors,
Quinella Exploration Ltd.

Dear Sirs:

Subject: Geological examination of the Old Kentucky
showing, Kettle River area, British Columbia

Based upon Geological Survey of Canada mapping (Little, 1961), lithologic similarities and the presence of a metamorphic foliation, the Old Kentucky showing appears to be hosted in the Upper Paleozoic Anarchist formation. Mafic volcanic rocks dominate the immediate showing area, consisting of amygdaloidal flows and possible pyroclastic equivalents, (see map and appendix 1). Also included in the immediate showing area are two outcrops of a quartz-feldspar porphyry (outcrops 3 and 7), which based upon grain size and structural relationships may represent subvolcanic intrusives. However, the possibility exists; the quartz-feldspar porphyry may represent a cenozoic volcanic event which is represented regionally by andesites and trachytes, (Little, 1961).

Bedding was not observed in the showing area, however a metamorphic foliation is present in outcrops 4, 5 and 6 which appears to mimic the general trend of the rock units. This foliation was not observed in the quartz-feldspar porphyry or the amygdaloidal volcanic flows.

The sulphides in the showing area are for the most part hosted in siliceous zones consisting of veins, veinlets or silicified patches. The most pronounced development of quartz veining occurs in the two trenches, (outcrops 4 and 6) although siliceous zones carrying minor sulphides are present in outcrop 5. In the two trenches the siliceous zones range in the thickness up to 2.0m thick and in general parallel the foliation. Internally the quartz veins are ribboned suggesting a multistage mineralizing event. Brecciation preceded or accompanied the quartz veining in outcrops 5 and 6 as indicated by the inclusion of angular volcanic clasts in the quartz veins.

Based upon significant differences in mineralogy between the east and west trenches, plus the spatial relationship between the trenches, two vein systems appear to be present. Beginning with the gangue mineralogy the west trench is characterized by quartz, whereas in the east trench calcite is present in amounts up to 50% in addition to quartz. Pyrite is the dominant sulphide in both trenches, however, the east trench only contains 1-3%, whereas the west trench contains up to 50% over intervals up to 10 cm thick. Visible sphalerite occurs only in the west trench, up to 5% over small intervals, (see assay

Quinella Exploration Ltd.
June 3, 1983
Page Two

samples D and E) and minor amounts of galena were noted in both trenches. Malachite staining was observed on a few samples in the rubble pile down-slope of the west trench.

The assay results were for the most part discouraging with the exception of samples D, E and F which contained some significant Ag values (Appendix 2). Samples D and E, taken from the same vein system were also of interest for Au and Zn, 0.04 oz/ton Au and up to 0.56% Zn for sample D. Samples A, B and C appear to have been taken to the hanging wall of the vein system and represent background values. The remaining samples (D through J) all represent values significantly above background for Cu, Pb and Zn.

Enough geologic similarities exist between the Old Kentucky showing and the Jo Dandy showing located approximately 500 m to the north that a common origin can be ascribed to both (Caines, 1937). Also the possibility of finding other mineral occurrences similar to the Old Kentucky or Jo Dandy is enhanced by their similar mode of occurrence and geographical proximity.

Respectfully submitted,



B.V. Hall, M.Sc.

REFERENCES:

Caines, C.E. 1937. Mineral deposits of the west half of the Kettle River area, British Columbia, Geological Survey of Canada, Paper 37-21.

Little, H.W. 1961. Geology of the Kettle River Mapsheet (west half). Geological Survey of Canada, Map 15-1961.

APPENDIX I

OUTCROP DESCRIPTIONS

- U/C 1 Located 40 m west of L1375 S, 650 W. Dark green volcanic rock, massive minor calcite veining, calcareous matrix.
- O/C 2 Located 20 m north of L1375 S, 650 W. Dark green volcanic rock, amygdaloidal, calcareous matrix, chlorite along fractures. Trace py (less than 1%) in veinlets. Fracture cleavage 147/81N and 70/60N.
- O/C 3 Located 10 m north of L1375 S, 700 W. Quartz-feldspar porphyry, pale green in colour, abundant phenocrysts (approx. 30%) up to 4 mm in diameter, lacks the foliation present in O/C 4, 5 and 6. Possibly an intrusive (dyke or subvolcanic sill).
- O/C 4 Located at the entrance to the west adit. Fine-grained dark green mafic volcanic, possibly a tuff due to the pronounced foliation, very chloritic. Abundant siliceous zones up to 2.0 m thick paralleling the foliation and consisting of subparallel and randomly orientated quartz-pyrite-sphalerite veins and veinlets. Up to 50% pyrite over intervals less than 10 cm.
- O/C 5 Glory hole, located approximately 10 m north of L1425 S, 675 W. Fine grained mafic volcanic, possibly a tuff, similar to O/C 4 and 6, very chloritic. Abundant siliceous zones randomly set throughout rock, possibly as a result of brecciation, minor disseminated pyrite (less than 1%).
- O/C 6 Located in the immediate vicinity of east adit. Fine-grained mafic volcanic, dark green in colour, possibly a tuff. Very chloritic and similar to O/C 4 and 5. Over small sections this rock has been brecciated, with later quartz flooding now surrounding the volcanic clasts. In the brecciated zones pyrite (1-3%) occurs as disseminated grains or fine veinlets. Also present is a zone of quartz-carbonate veining. The veins are ribboned, paralleling the foliation and carry up to 1% galena.
- O/C 7 Located approximately 20 m south of L1425 S, 650 W. Quartz-feldspar porphyry, pale green in colour, abundant phenocrysts of quartz and potassium feldspar (approx. 30%) up to 5 mm in diameter. Similar to O/C 3, possibly an intrusive (dyke or subvolcanic sill).

ASSAY SUMMARY

SAMPLE	LOCATION	ORIENTATION	INTERVAL	$\frac{\text{Au}}{\text{oz/ton}}$	$\frac{\text{Ag}}{\text{oz/ton}}$	$\frac{\text{Cu}}{\mu\text{m}}$	$\frac{\text{Pb}}{\text{ppm}}$	$\frac{\text{Zn}}{\text{ppm}}$	$\frac{\text{As}}{\text{ppm}}$	REMARKS
A	west trench west face	horizontal	2.0 m	0.01	0.06	32	84	324	2	
B	west trench south wall	vertical	1.3 m	0.01	0.06	78	78	550	2	
C	west trench south wall	vertical	1.5 m	0.01	0.08	52	68	520	2	
D	west trench south wall	vertical	1.0 m	0.04	0.58	520	2,260	56,000	2	visible sphalerite
E	west trench north wall	vertical	1.5 m	0.04	0.74	1,500	2,400	41,000	2	visible sphalerite
F	west trench south wall	vertical	0.1 m	0.01	0.30	150	1,240	2,000	2	small quartz-pyrite vein
G	west trench north wall	vertical	1.8 m	0.01	0.06	60	330	3,600	2	
H	east trench south wall	vertical	1.8 m	0.01	0.08	188	2,560	1,620	2	visible galena
I	east trench south wall	vertical	1.5 m	0.01	0.08	102	2,580	1,960	2	visible galena
J	east trench north wall	vertical	1.8 m	0.01	0.08	252	1,640	4,400	2	visible galena

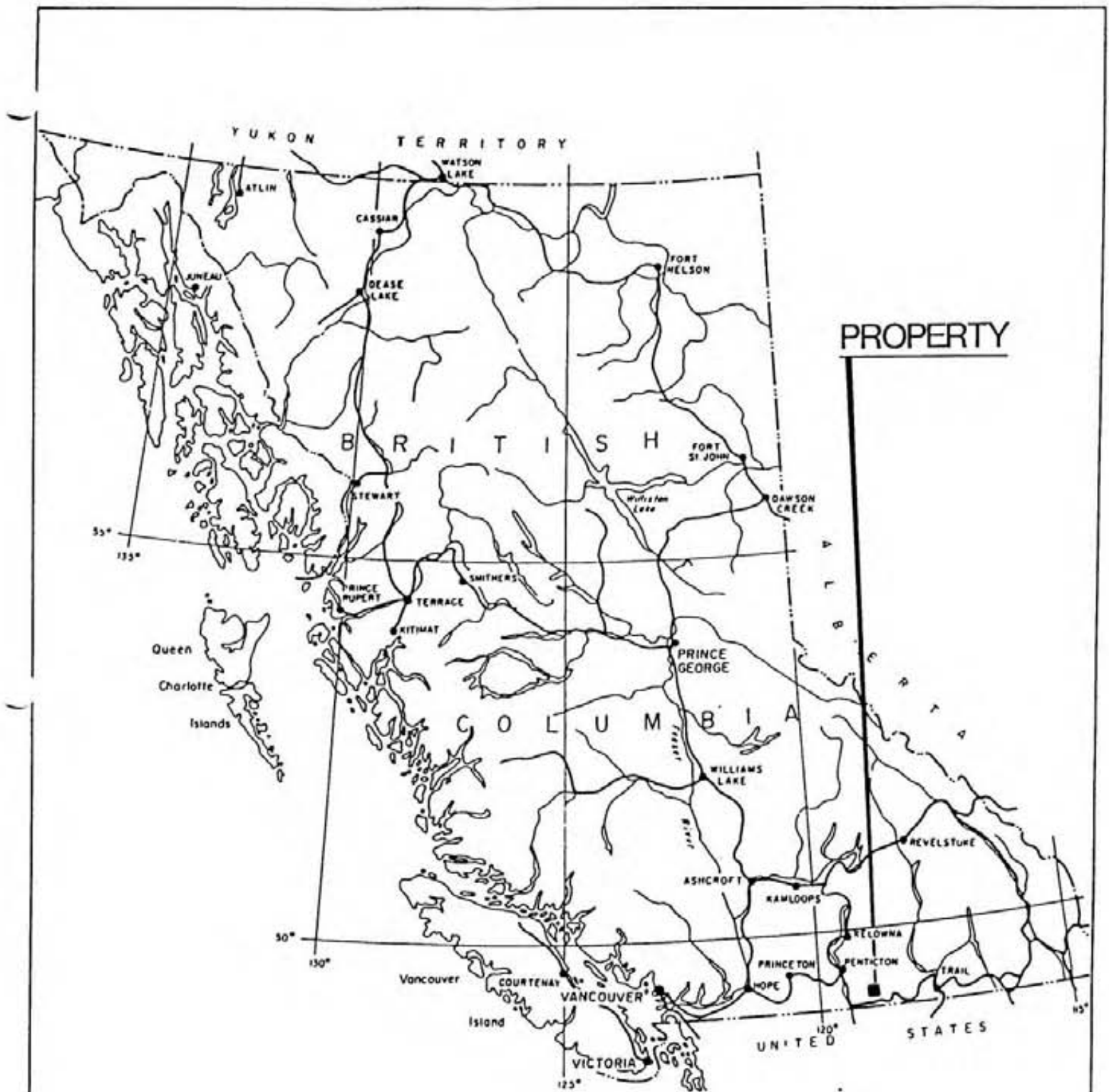
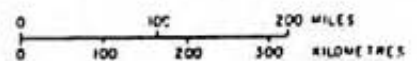


FIGURE 1

PAN AMERICAN CONSULTANTS LTD.

QUINELLA EXPLORATION LTD.
ROCK CLAIMS
PROPERTY LOCATION MAP



NTS. 82E/3E — GREENWOOD M.D., B.C.

DRAWN	PROJECT	DATE MAY 1983	FIG. 1
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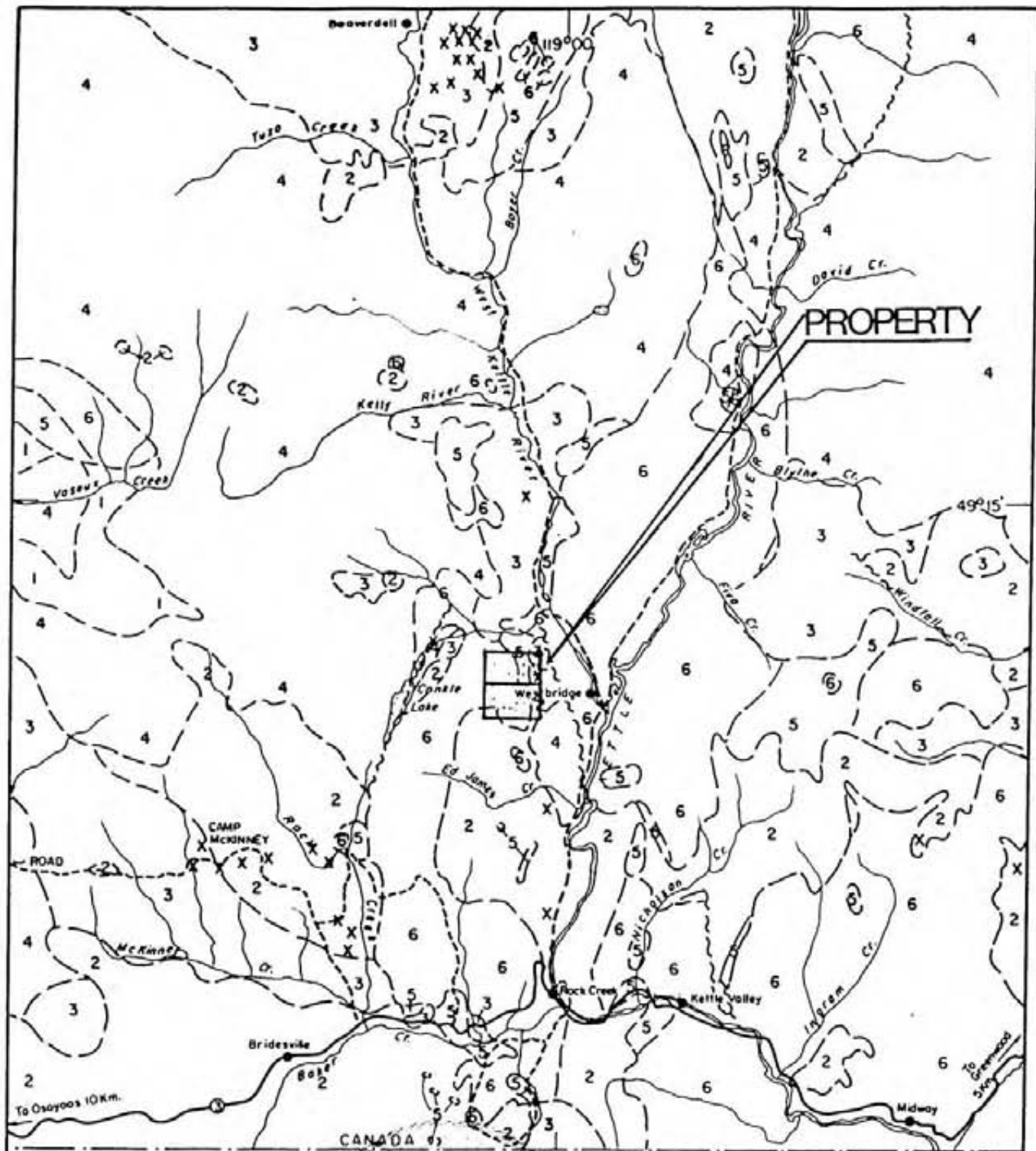
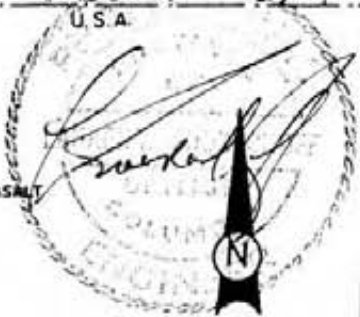


FIGURE 2

- LEGEND**
- 6 ANDESITE, TRACHYTE, MINOR BASALT
 - 5 KETTLE RIVER FORMATION
 - 4 VALHALLA PLUTONIC ROCKS
 - 3 NELSON PLUTONIC ROCKS
 - 2 ANARCHIST GROUP
 - 1 MONASHEE GROUP
 - X MINERAL OCCURRENCES



PAN AMERICAN CONSULTANTS LTD.
QUINELLA EXPLORATION LTD
 Rock Claims Greenwood M.D.
GEOLOGY & CLAIM MAP
 N.T.S. B2E/3E
 0 5 10 15 KM.
 SCALE 1:250,000 May 1983

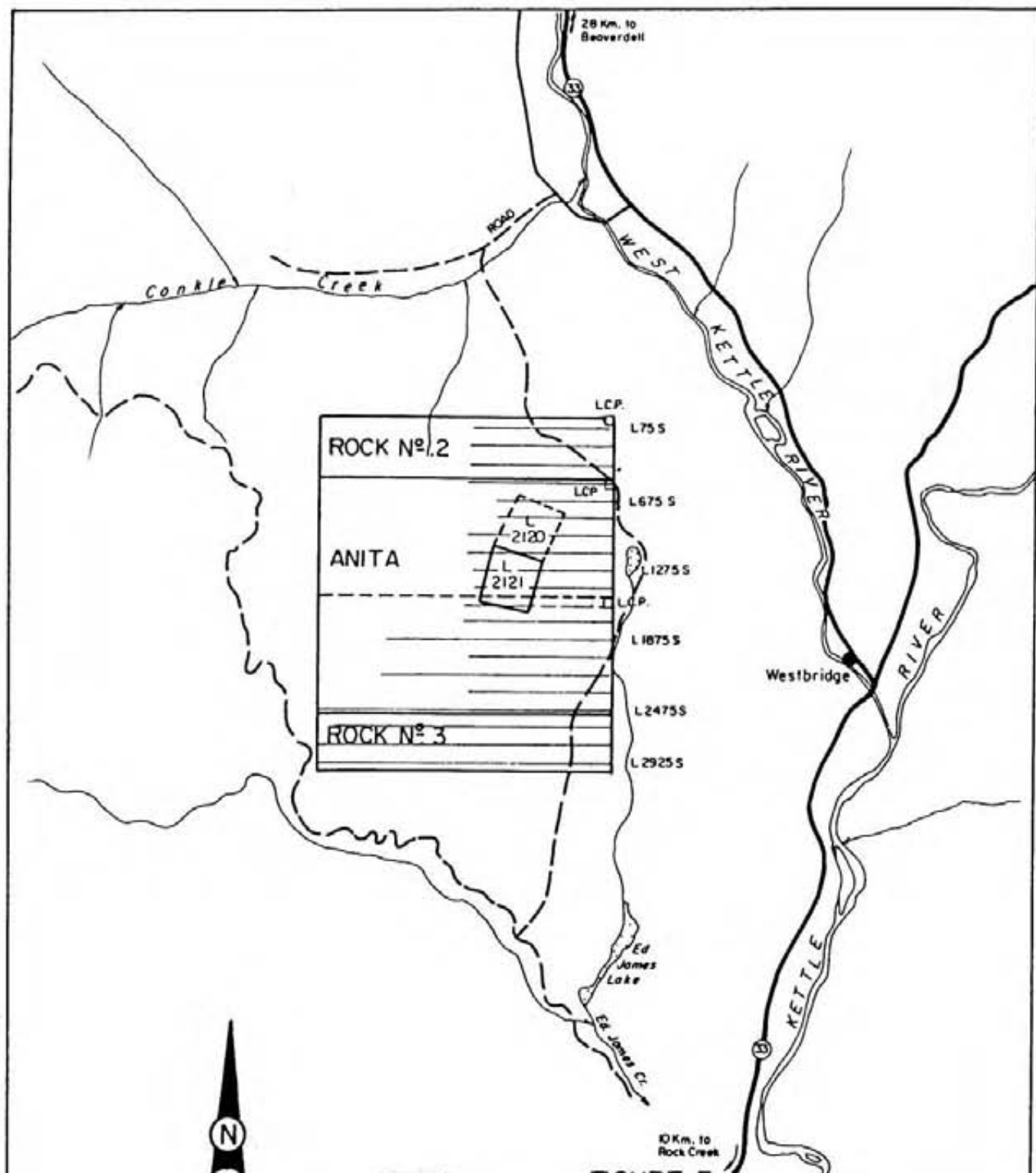


FIGURE 3

PAN AMERICAN CONSULTANTS LTD.
 QUINELLA EXPLORATION LTD.
CLAIM & INDEX MAP
 ROCK CLAIMS
 N.T.S. 82E / 3E
 GREENWOOD M.D., B.C.



0 1 2 3 KM.
 SCALE 1:50,000
 MAY 1983

APPENDIX "B"

VLF-EM SURVEY - FIELD DATA

		P.S.	Deg.	Gain		F.S.	Deg.	Gain
75	South				825	West		
0	West	65	+8	15	50	West		
25	West	70	+7	15	75	West		
50	West	70	+7	15	900	West		
75	West	68	+5	15	25	West		
100	West	65	+6	15	50	West	90	-8
25	West	70	+4	15	75	West	100+	-7
50	West	70	+2	15	1000	West	90	-8
75	West	75	0	15	25	West	90	-8
200	West	75	0	15	50	West	100+	-7
25	West	80	0	15	75	West	100+	-6
50	West	75	0	15	1100	West	100+	-4
75	West	70	-2	15	25	West	100+	0
300	West	75	-4	15	50	West	90	0
25	West	80	-5	15	75	West	85	0
50	West	85	-6	15	1200	West	90	+6
75	West	80	-8	15	25	West	90	+6
400	West	90	-8	15	50	West	90	+7
25	West	90	-7	15				
50	West	90	-8	15				
75	West	95	-8	15				
500	West	90	-7	15				
25	West	90	-10	15				
50	West	95	-10	15				
75	Start	95	-8	15				
	Rock Slide							
600	West	95	-10	15				
25	End	95	-8	15				
	Rock Slide							
50	West	85	-7	15				
75	West							
700	West							
25	West							
50	West							
75	West							
800	West							

225	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain	
0	West				825	West	100+	-10	15
25	West				50	West	95	-10	15
50	West				75	West	100+	-12	15
75	West				900	West	100+	-10	15
100	West	85	+4	15	25	West	100+	-11	15
25	West	75	0	15	50	West	100+	-12	15
50	West	85	-4	15	75	West	100+	-12	15
75	West	85	-8	15	1000	West	100+	-10	15
200	West	85	-6	15	25	West	90	-8	15
25	West	85	-8	15	50	West	90	-8	15
50	West	95	-8	15	75	West	100+	-6	15
75	West	90	-7	15	1100	West	95	-4	15
300	West	90	-7	15	25	West	100+	0	15
25	West	90	-6	15	50	West	100+	0	15
50	West	90	-6	15	75	West	95	+4	15
75	West	95	-6	15	1200	West	90	+6	15
400	West	95	-5	15	25	West	90	+6	15
25	West	90	-6	15	50	West	90	+7	15
50	West	90	-6	15					
75	West	90	-7	15					
500	West	95	-8	15					
25	West	95	-9	15					
50	Road	95	-7	15					
75	West	90	-8	15					
600	West	90	-6	15					
25	West	80	-9	15					
50	West	80	-9	15					
75	West	80	-8	15					
700	West	90	-10	15					
25	West	95	-12	15					
50	West	100	-12	15					
75	West	95	-12	15					
800	West	100+	-8	15					

375	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain
0	West	55	+6	15	825 West	55	-7	8
25	West	60	+6	15	50 West	55	-8	8
50	West	60	+6	15	75 West	45	-10	8
75	West	60	+6	15	900 West	50	-10	8
100	West	65	+3	15	25 West	50	-7	8
25	West	60	+6	15	50 West	50	-4	8
50	West	60	0	15	75 West	45	-4	8
75	West	55	0	15	1000 West	50	0	8
200	West	60	0	15	25 West	45	0	8
25	West	60	0	15	50 West	40	0	8
50	West	60	0	15	75 West	45	0	8
75	West	60	0	15	1100 West	45	0	8
300	West	60	0	15	25 West	40	0	8
25	West	65	-3	15	50 West	40	+4	8
50	West	65	-5	15	75 West	35	0	8
75	West	60	-5	15	1200 West	40	+6	8
400	West	65	-4	15	25 West	40	+8	8
25	West	70	-6	15	50 West	35	+8	8
50	West	65	-6	15				
75	Road	65	-5	15				
500	West	70	-6	15				
25	West	65	-6	15				
50	Road	75	-6	15				
75	West	75	-5	15				
600	West	75	-6	15				
25	West	70	-8	15				
50	West	80	-7	15				
75	West	85	-8	15				
700	West	85	-8	15				
25	West	90	-9	15				
50	West	90	-10	15				
75	West	55	-10	8				
800	West	55	-7	8				

525	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain	
0	West	60	-4	15	825	West	40	-8	15
25	West	60	-4	15	50	West	40	-7	15
50	West	65	+6	15	75	West	45	-7	15
75	West	60	+5	15	900	West	48	-8	15
100	West	60	0	15	25	West	50	-6	15
25	West	55	0	15	50	West	50	-6	15
50	West	60	0	15	75	West	50	-6	15
75	West	55	0	15	1000	West	50	-6	15
200	West	55	+4	15	25	West	50	-5	15
25	West	55	+4	15	50	West	45	0	15
50	West	50	+4	15	75	West	45	0	15
75	West	50	0	15	1100	West	45	0	15
300	West	50	0	15	25	West	45	+5	15
25	West	55	0	15	50	West	45	0	15
50	West	50	0	15	75	West	45	+6	15
75	West	55	0	15	1200	West	40	+6	15
400	West	55	-2	15	25	West	40	+8	15
25	West	60	-3	15	50	West	45	+7	15
50	West	55	-5	15					
75	Road	55	-4	15					
500	West	55	-5	15					
25	West	60	-5	15					
50	Road	60	-6	15					
75	West	60	-5	15					
600	West	65	-7	15					
25	West	70	-7	15					
50	West	70	-6	15					
75	West	80	-4	15					
700	West	70	-6	15					
25	West	80	-8	15					
50	West	75	-8	15					
75	West	35	-8	15					
800	West	40	-7	15					

675	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain
0	West	50	0	15	825	West	50	-8 15
25	West	50	0	15	50	West	50	-8 15
50	West	50	-2	15	75	West	50	-8 15
75	West	60	-2	15	900	West	50	-10 15
100	West	60	0	15	25	West	50	-8 15
25	West	60	0	15	50	West	50	-10 15
50	West	60	0	15	75	West	50	-8 15
75	West	65	0	15	1000	West	50	-8 15
200	Cross	65	0	15	25	West		
	Road				50	West		
25	West	65	0	15	75	West		
50	West	65	0	15	1100	West		
75	West	60	0	15	25	West		
300	West	60	0	15	50	West		
25	West	55	0	15	75	West		
50	West	55	0	15	1200	West		
75	West	55	0	15	25	West		
400	West	55	0	15	50	West		
25	West	55	0	15				
50	West	50	0	15				
75	Road	55	0	15				
500	West	55	0	15				
25	West	55	0	15				
50	Road	55	0	15				
75	West	55	0	15				
600	West	50	0	15				
25	West	60	-5	15				
50	West	60	-4	15				
75	West	60	-5	15				
700	West	60	-4	15				
25	West	50	-5	15				
50	West	65	-6	15				
75	West	65	-8	15				
800	West	75	-8	15				

Cliff

825	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain
0	West	65	-8	15	825 West	50	-4	15
25	West	65	0	15	50 West	50	-4	15
50	West	60	0	15	75 West	50	-8	15
75	West	60	0	15	900 West	60	-10	15
100	West	60	0	15	25 West	60	-10	15
25	West	60	0	15	50 West	60	-10	15
50	West	60	0	15	75 West	60	-10	15
75	West	60	0	15	1000 West	60	-6	11
200	West	60	0	15	25 West			
25	West	60	0	15	50 West			
50	West	60	0	15	75 West			
75	West	60	-4	15	1100 West			
300	West	55	+5	15	25 West			
25	West	60	+6	15	50 West			
50	West	60	+8	15	75 West			
75	West	55	+6	15	1200 West			
400	West	60	0	15	25 West			
25	West	60	+8	15	50 West			
50	West	60	+6	15				
75	Road	60	+6	15				
500	West	60	+6	15				
25	West	60	+0	15				
50	Road	50	0	15				
75	West	55	+7	15				
600	West	50	+4	15				
25	West	50	+6	15				
50	West	50	0	15				
75	West	50	0	15				
700	West	50	0	15				
25	West	50	0	15				
50	West	50	0	15				
75	West	50	0	15				
800	West	50	-8	15				

975	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain	
0	West	50	-3	15	825	West	75	-4	15
25	West	50	0	15	50	West	80	-4	15
50	West	50	-4	15	75	West	80	-5	15
75	West	50	-5	15	900	West	80	-6	15
100	West	50	-2	15	25	West	85	-6	15
25	West	50	0	15	50	West	80	-8	15
50	West	55	0	15	75	West	85	-6	15
75	West	55	0	15	1000	West	85	-8	11
200	West	50	0	15	25	West	85	-8	15
25	West	60	0	15	50	West	85	-6	15
50	West	60	0	15	75	West	90	-6	15
75	West	75	0	15	1100	West	90	-5	15
300	West	80	0	15	25	West	90	-8	15
25	West	80	+8	15	50	West	95	-8	15
50	West	75	+6	15	75	West	95	-7	15
75	West	80	+6	15	1200	West	95	-6	15
400	West	75	+6	15	25	West	95	-5	15
25	West	70	+8	15	50	West	95	-4	15
50	West	80	+10	15					
75	West	75	+7	15					
500	Start	75	+10	15					
	Rock Slide								
25	West	70	+8	15					
50	Road	75	+6	15					
75	West	75	+6	15					
600	End	75	+8	15					
	Rock Slide								
25	West	80	+4	15					
50	West	85	+8	15					
75	West	80	+7	15					
700	West	80	+6	15					
25	West	85	+10	15					
50	West	95	+4	15					
75	West	90	+4	15					
800	West	90	0	15					

1125	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain
0	West	85	+4	15	825	West 85	-10	15
25	West	65	-4	15	50	West 85	-8	15
50	West	65	-5	15	75	West 85	-8	15
75	West	80	-4	15	900	West 85	-8	15
100	West	80	-3	15	25	West 90	-6	15
25	West	80	-5	15	50	West 90	-6	15
50	West	80	-6	15	75	West 90	-6	15
75	West	85	0	15	1000	West 90	-6	11
200	Start	90	-6	15	25	West 90	-9	15
	Rock Slide				50	West 100+	-4	15
25	West	75	0	15	75	West 90	-7	15
50	End	80	0	15	1100	West 100+	-6	15
	Rock Slide				25	West 100+	-7	15
75	West	80	-5	15	50	West 90	-8	15
300	West	75	-8	15	75	West 70	-10	15
25	West	75	-8	15	1200	West 90	-7	15
50	West	75	-6	15	25	West 95	-6	15
75	West	80	-7	15	50	West 95	-6	15
400	West	80	-6	15				
25	West	80	-3	15				
50	West	80	0	15				
75	West	85	0	15				
500	Start	80	-2	15				
	Rock Slide							
25	West	80	-2	15				
50	Road	80	-2	15				
75	End	70	-8	15				
	Rock Slide							
600	West	80	-9	15				
25	West	80	-8	15				
50	West	80	-9	15				
75	West	75	-10	15				
700	West	75	-10	15				
25	West	80	-12	15				
50	West	75	-10	15				
75	West	90	-8	15				
800	West	85	-10	15				

1275 South F.S.					825 Start F.S.				
			Deg.	Gain			Deg.	Gain	
0	West	45	-15	15	50	Rock Slide	85	-15	15
25	West	47	-20	15	75	End	90	-15	15
50	West	45	-19	15	900	West	90	-16	15
75	West	45	-22	15	25	West	90	-16	15
100	West	45	-20	15	50	West	90	-16	15
25	West	40	-20	15	75	West	85	-16	15
50	West	45	-16	15	1000	West	90	-12	11
75	West	45	-14	15	25	West	90	-14	15
200	West	50	-10	15	50	West	90	-14	15
25	West	50	-10	15	75	West	80	-13	15
50	Cross	55	-8	15	1100	West	80	-10	15
75	Cross	60	-8	15	25	West	80	-7	15
300	West	60	-5	15	50	West	80	-8	15
25	West	65	+4	15	75	West	80	-8	15
50	West	60	+6	15	1200	West	80	-8	15
75	Road	70	+6	15	25				
400	West	70	+4	15	50	Cliff			
25	Cross	70	0	15					
50	West	70	+5	15					
75	West	65	+5	15					
500	West	72	0	15					
25	West	70	-4	15					
50	West	70	-6	15					
75	West	70	-8	15					
600	West	70	-10	15					
25	West	75	-10	15					
50	West	75	-12	15					
75	West	65	-14	15					
700	West	75	-12	15					
25	West	75	-14	15					
50	West	80	-16	15					
75	West	70	-14	15					
800	West	75	-14	15					

1425	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain	
0	West	55	+5	15	825	West	60	-14	15
25	West	50	+6	15	50	West	65	-16	15
50	West	55	+8	15	75	West	60	-12	15
75	West	55	+6	15	900	West	65	-14	15
100	West	55	+8	15	25	West	65	-14	15
25	West	55	+6	15	50	West	60	-16	15
50	West	50	+8	15	75	West	60	-16	15
75	West	55	+5	15	1000	West	65	-16	11
200	West	55	+6	15	25	West	65	-16	15
25	West	55	+6	15	50	West	60	-18	15
50	West	55	+4	15	75	West	70	-16	15
					1100	Start	70	-16	15
75	West	55	+5	15		Rock Slide			
300	West	55	+5	15	25	West	70	-14	15
25	West	55	+4	15	50	} Bluff			
50	Cross	60	+5	15	75				
	Road				1200	End	80	-12	15
		75	Road	60	0	15	Rock		Slide
400	West	60	-6	15	50	25			
25	West	60	-8	15					
50	West	65	-8	15					
75	West	60	-8	15					
500	West	60	-8	15					
25	West	55	-6	15					
50	West	60	-6	15					
75	West	60	-6	15					
600	West	60	-6	15					
25	Old	55	-4	15					
	Diggings								
50	West	60	-6	15					
75	West	60	-8	15					
700	West	60	-11	15					
25	Cross	60	-13	15					
	Road								
50	West	65	-18	15					
75	West	65	-16	15					
800	West	60	-14	15					

1575 South P.S.					F.S.				
		P.S.	Deg.	Gain			Deg.	Gain	
0	West	85	+4	15	825	West	75	-8	15
25	West	90	+5	15	50	West	75	-6	15
50	West	80	+6	15	75	West	75	-6	15
75	West	90	+6	15	900	West	80	-5	15
100	West	90	+7	15	25	West	75	-6	15
25	West	100+	+6	15	50	West	70	-6	15
50	West	55	-2	9	75	West	80	-6	15
75	West	50	-8	9	1000	West	85	-6	11
200	West	45	-10	9	25	West	90	-8	15
25	West	45	-12	9	50	West	85	-8	15
50	West	50	-4	9	75	West	80	-8	15
75	West	60	-4	9	1100	West	80	-10	15
300	West	55	-7	9	25	West	80	-12	15
25	West	50	-6	9	50		80	-12	15
50	West	50	-5	9	75		75	-10	15
75	Road	45	-2	9	1200		75	-10	15
		400	West	45	25		75	-8	15
		15		25	0		50	80	-9
		75		15	West	45	+4	9	75
50	West	40	0	9					
75	West	40	0	9					
500	} Swamp	35	0	9					
25		35	0	9					
50	West	35	0	9					
75	West	70	0	15					
600	West	70	+4	15					
25	West	65	+6	15					
50	West	70	+4	15					
75	West	65	-4	15					
700	West	70	-5	15					
25	West	65	-4	15					
50	West	65	-4	15					
75	West	65	-4	15					
800	West	70	-4	15					

1725	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain
0	West	80	-14	15	825	West	90	-4
25	West	75	-15	15	50	West	90	-6
50	West	70	-16	15	75	West	90	-6
75	West	70	-20	15	900	West	90	-5
100	West	80	-20	15	25	West	90	-4
25	West	75	-20	15	50	West	95	-5
50	West	75	-18	15	75	West	90	-4
75	West	75	-20	15	1000	West	90	-4
200	West	75	-18	15	25	West	90	-4
25	West	80	-20	15	50	West	85	-4
50	West	65	-18	15	75	West	90	+4
75	West	40	-18	9	1100	West	80	+4
300	West	40	-16	9	25	West	80	-4
25	West	40	-20	9	50		80	-4
50	West	45	-14	9	75		80	-4
75	Road	50	-16	9	1200		85	-8
400	West	50	-20	9	25		80	-7
25	West	50	-24	9	50		80	-6
50	Stream	50	-28	9	75		65	-6
75	West	55	-28	9				
500	West	65	-24	9				
25	West	65	-12	9				
50	Cross	65	-8	9				
	Road							
75	West	60	-6	9				
600	West	90	0	15				
25	West	85	+4	15				
50	West	95	+4	15				
75	West	90	+4	15				
700	West	90	-4	15				
25	West	85	-4	15				
50	West	95	+2	15				
75	West	80	+2	15				
800	West	90	-4	15				

1875	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain	
0	West	55	0	15	825	West	55	-6	13
25	West	60	-5	15	50	West	60	-6	13
50	West	65	-4	15	75	West	65	-8	13
					900	Dig-	65	-10	13
						gings			
75	West	70	-6	15	25	West	60	-8	13
100	West	70	-6	15	50	West	65	-8	13
25	West	70	-8	15	75	West	65	-6	13
50	West	70	-8	15	1000	West	60	-10	15
75	West	70	-8	15	25	West	65	-5	13
200	West	80	-6	15	50	West	60	-6	13
25	West	80	-6	15	75	West	80	-10	13
50	West	80	-8	15	1100	West	80	-12	13
75	West	90	-8	15	25	West	55	-8	13
300	West	90	-7	15	50		55	-4	13
25	West	90	-6	15	75		45	0	13
50	West	90	-5	15	1200		50	0	13
75	West	90	-4	15	25		50	0	13
400	West	90	-6	15	50		45	-6	13
25	West	90	-7	15					
50	West	90	-6	15					
75	Bluff								
500	West	55	-8	15					
25	West	50	-6	15					
50	West	50	-6	15					
75	West	50	-8	15					
600	West	50	-10	15					
25	West	55	-10	15					
50	West	55	-8	15					
75	West	55	-10	15					
700	West	45	-6	15					
25	West	60	-8	15					
50	West	60	-10	15					
75	West	45	-8	15					
800	West	50	-4	15					

1875	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain	
0	West				1825	West	60	0	9
25	West				50	West	60	+6	9
50	West				75	West	60	+4	9
75	West				1900	West	60	-6	9
1100	West				25	West	60	+10	9
25	West				50	West	60	+6	9
50	West				75	West	65	+6	9
75	West				2000				
1200	West				25				
25	West				50				
50	West			8	75				
75	West	45	-6	8	1100				
1300	West	45	-5	8	25				
25	West	45	-4	8	50				
50	West	45	-4	8	75				
75	West		0	8	1200				
1400	West	50	-2	9	25				
25	West	50	0	9	50				
50	West	50	-4	9					
75	West	50	-2	9					
1500	West	50	-2	9					
25	West	50	-2	9					
50	West	55	-4	9					
75	West	60	-6	9					
1600	West	60	-6	9					
25	West	55	-8	9					
50	West	50	-6	9					
75	West	50	-6	9					
1700	West	55	-8	9					
25	West	55	-4	9					
50	West	50	-2	9					
75	West	45	-4	9					
1800	West	55	0	9					

2025	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain
0	West	55	-6	9	825 West	70	-6	9
25	West	55	-6	9	50 West	65	-5	9
50	West	55	-8	9	75 West	70	-6	9
75	West	60	-6	9	900 West	70	-10	9
100	West	60	+6	9	25 West	65	-10	9
25	West	55	+3	9	50 West	70	-16	9
50	West	50	+4	9	75 West	80	-14	9
75	West	50	-5	9	1000	80	-8	9
200	West	50	-5	9	25	60	0	9
25	West	55	-5	9	50	60	0	9
50	West	55	-4	9	75	60	-2	9
75	West	50	-6	9	1100	60	-7	9
300	West	50	-7	9	25	65	-8	9
25	West	55	-6	9	50	60	-8	9
50	West	50	-7	9	75	60	-8	9
75	West	55	-8	9	1200	65	-6	9
400	West	55	-10	9	25	65	-8	9
25	West	55	-8	9	50	80	-8	9
50	West	60	-8	9				
75	West	50	-6	9				
500	West	60	-5	9				
25	West	60	-5	9				
50	West	60	-2	9				
75	West	55	-5	9				
600	West	60	-6	9				
25	West	60	-7	9				
50	West	55	-7	9				
75	West	60	-6	9				
700	West	60	-6	9				
25	West	50	-6	9				
50	West	60	-7	9				
75	West	65	-8	9				
800	West	65	-8	9				

2175	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain	
0	West	45	-4	9	825	West	65	-8	9
25	West	50	-3	9	50	West	65	-9	9
50	West	55	-2	9	75	West	65	-8	9
75	West	50	-4	9	900	West	70	-8	9
100	West	55	-4	9	25	West	70	-8	9
25	West	55	-4	9	50	West	65	-10	9
50	West	55	0	9	75	West	50	-14	7.5
75	West	55	+4	9	1000		50	-16	7.5
200	West	50	+6	9	25		50	-20	7.5
25	West	50	+6	9	50		55	-14	7.5
50	West	45	+4	9	75		65	-15	7.5
75	West	50	0	9	1100		65	-6	7.5
300	West	45	0	9	25		60	-8	7.5
25	West	50	-4	9	50		65	-8	7.5
50	Cross	45	-3	9	75		60	-10	7.5
	Road - Start				1200		60	-10	7.5
75	West	50	-3	9			60	-10	7.5
400	West	50	-4	9	25		60	-10	7.5
25	West	50	-6	9	50		55	-8	7.5
50	West	50	-5	9					
75	End	55	-5	9					
	Rock Slide								
500	West	55	-6	9					
25	West	55	-7	9					
50	West	60	-8	9					
75	West	60	-8	9					
600	West	65	-7	9					
25	West	60	-8	9					
50	West	65	-8	9					
75	West	65	-8	9					
700	West	65	-10	9					
25	West	65	-10	9					
50	West	65	-10	9					
75	West	65	-11	9					
800	West	65	-10	9					

2175 South F.S.			Deg.	Gain				F.S.	Deg.	Gain
0	West				825	West	55	-12	10	
25	West				50	West	55	-12	10	
50	West				75	West	50	-12	10	
75	West				1900	West	50	-10	10	
1100	West				25	West	50	-10	10	
25	West				50	West	50	-10	10	
50	West				75	West	55	-12	10	
75	West				2000		50	-12	9	
1200	West				25		45	-14	9	
25	West				50		50	-14	9	
50	West				75		55	-12	9	
75	West	60	-12	10	2100		50	-14	9	
1300	West	60	-9	10	25		50	-12	9	
25	West	55	-8	10	50		55	-7	9	
50	West	55	-10	10	75		55	-8	9	
75	}				2200		55	-8	9	
1400					25					
					50					
25	West	75	-8	10						
50	West	65	-8	10						
75	West	55	-12	10						
1500	West	60	-10	10						
25	West	55	-10	10						
50	West	60	-8	10						
75	West	60	-7	10						
1600	West	60	-8	10						
25	West	60	-8	10						
50	West	55	-10	10						
75	West	55	-10	10						
1700	West	50	-8	10						
25	West	50	-8	10						
50	West	50	-10	10						
75	West	50	-8	10						
1800	West	50	-12	10						

2325	South	F.S.	Deg.	Gain		F.S.	Deg.	Gain	
0	West	60	-4	9	825	West	45	-8	7.5
25	West	60	-3	9	50	West	40	-9	7.5
50	West	60	-2	9	75	West	40	-10	7.5
75	West	60	0	9	900	West	40	-8	7.5
100	West	55	-4	9	25	West	40	-8	7.5
25	West	60	-4	9	50	West	40	-7	7.5
50	West	55	-5	9	75	West	40	-10	7.5
75	West	55	-5	9	1000		45	-8	7.5
200	West	60	-4	9	25		45	-12	7.5
25	West	60	-4	9	50		45	-14	7.5
50	West	60	-4	9	75		45	-16	7.5
75	West	60	-3	9	1100		45	-15	7.5
300	Cross	50	-5	9	25		50	-14	7.5
	Road				50		55	-13	7.5
25	West	50	+6	9	75		50	-8	7.5
50	West	55	+6	9	1200		45	-8	7.5
75	West	55	+6	9	25		50	-12	7.5
400	West	50	-4	9	50		50	-14	7.5
25	West	50	-4	9					
50	West	50	-4	9					
75	West	50	-7	9					
500	West	50	-8	9					
25	West	50	-7	9					
50	West	50	-5	9					
75	West	50	-10	9					
600	West	50	-8	9					
25	West	50	-5	9					
50	West	45	-10	9					
75	West	50	-10	9					
700	West	50	-12	9					
25	West	40	-10	9					
50	West	40	-12	7.5					
75	West	40	-12	7.5					
800	West	40	-12	7.5					

2475 South	F.S.	Deg.	Gain		F.S.	Deg.	Gain	
0	West	Ravine			825 West	55	-7	12
25	West				50 West	60	-6	12
50	West				75 West	60	-10	12
75	West				900 West	60	-9	12
100	West				25 West	60	-10	12
25	West	Ravine			50 West	65	-8	12
50	West				75 West	65	-10	12
75	West				1000 West	55	-11	12
200	West				25	65	-12	12
25	West	50	-4	12	50	65	-14	12
50	West	55	-2	12	75	65	-14	12
75	West	50	-4	12	1100	70	-10	12
300	West	55	-4	12	25	80	-10	12
25	West	55	-4	12	50	75	-10	12
50	West	60	-2	12	75	80	-10	12
75	Swamp	60	-4	12	1200	85	-8	12
400	Swamp	60	0	12	25	80	-10	12
25	West	60	+5	12	50	80	-10	12
50	West	60	+6	12				
75	West	60	+5	12				
500	Cross	55	+6	12				
	Road							
25	West	55	0	12				
50	Road	55	0	12				
75	West	55	0	12				
600	West	55	0	12				
25	West	50	-4	12				
50	West	50	-5	12				
75	West	50	-6	12				
700	West	50	-6	12				
25	West	60	-6	12				
50	Start	60	-6	12				
	Rock	Slide						
75	West	60	-4	12				
800	End	55	-7	12				
	Rock	Slide						

		F.S.	Deg.	Gain		F.S.	Deg.	Gain	
2475	South				2100	West	70	-18.	10
1275	West	50	-13	10	25	West	65	-18	10
1300	West	50	-10	10	50	West	70	-20	10
25	West	55	-16	10	75	West	65	-20	10
50	West	50	-14	10	2200	West	80	-16	10
75	West	55	-20	10	25	West	65	-14	10
1400	West	55	-22	10	50	West	55	-10	10
25	West	Cliff			75	West	55	-8	10
50	West				2300	West	60	-7	10
75	West				25		65	-6	10
1500	West				50		65	-6	10
25	West				75		60	-6	10
50	West			2400		55	-8	10	
75	West			25		60	-7	10	
1600	West	60	-20	10	50		60	-7	10
25	West	65	-20	10	75		60	-8	10
50	West	65	-18	10	2500		60	-8	10
75	West	65	-14	10					
1700	West	65	-16	10					
25	West	50	-15	10					
50	West	60	-15	10					
75	West	65	-15	10					
1800	West	65	-10	10					
25	West	60	-14	10					
50	West	60	-17	10					
75	West	60	-12	10					
1900	West	65	-14	10					
25	West	65	-15	10					
50	West	60	-14	10					
75	West	60	-14	10					
2000	West	60	-15	10					
25	West	60	-18	10					
50	West	65	-20	10					
75	West	60	-20	10					

		F.S.	Deg.	Gain		F.S.	Deg.	Gain	
2625	South				825	West	80	-8	12
0	West				50	Start	90	-6	12
						Rock Slide			
25	West				75		85	-8	12
50	West				900	End	85	-8	12
						Rock Slide			
75	West				25	West	95	-10	12
100	West				50	West	90	-10	12
25	West				75	West	95	-10	12
50	West				1000	West	90	-10	12
75	West				25	West	80	-8	12
200	West				50	West	80	-10	12
25	West				75	West	80	-12	12
50	West				1100	West	70	-14	12
75	West				25	Cross	70	-16	12
						Road			
300	West				50	West	75	-16	12
25	West	60	-6	9	75	West	80	-15	12
50	West	65	-7	9	1200	West	80	-15	12
75	West	60	-8	9	25	West	80	-16	12
400	West	60	-10	9	50	West	85	-16	12
25	West	60	-10	9	75	West	80	-15	12
50	West	60	-12	9	1300	West	70	-14	12
75	West	60	-12	9					
500	West	65	-20	9					
25	West	70	-16	9					
50	West	70	-8	9					
75	West	60	-6	9					
600	West	65	-6	9					
25	West	80	-10	12					
50	West	90	-8	12					
75	West	90	-2	12					
700	West	70	+6	12					
25	West	70	+6	12					
50	West	60	+6	12					
75	West	60	+4	12					
800	West	60	-3	12					

Canyon

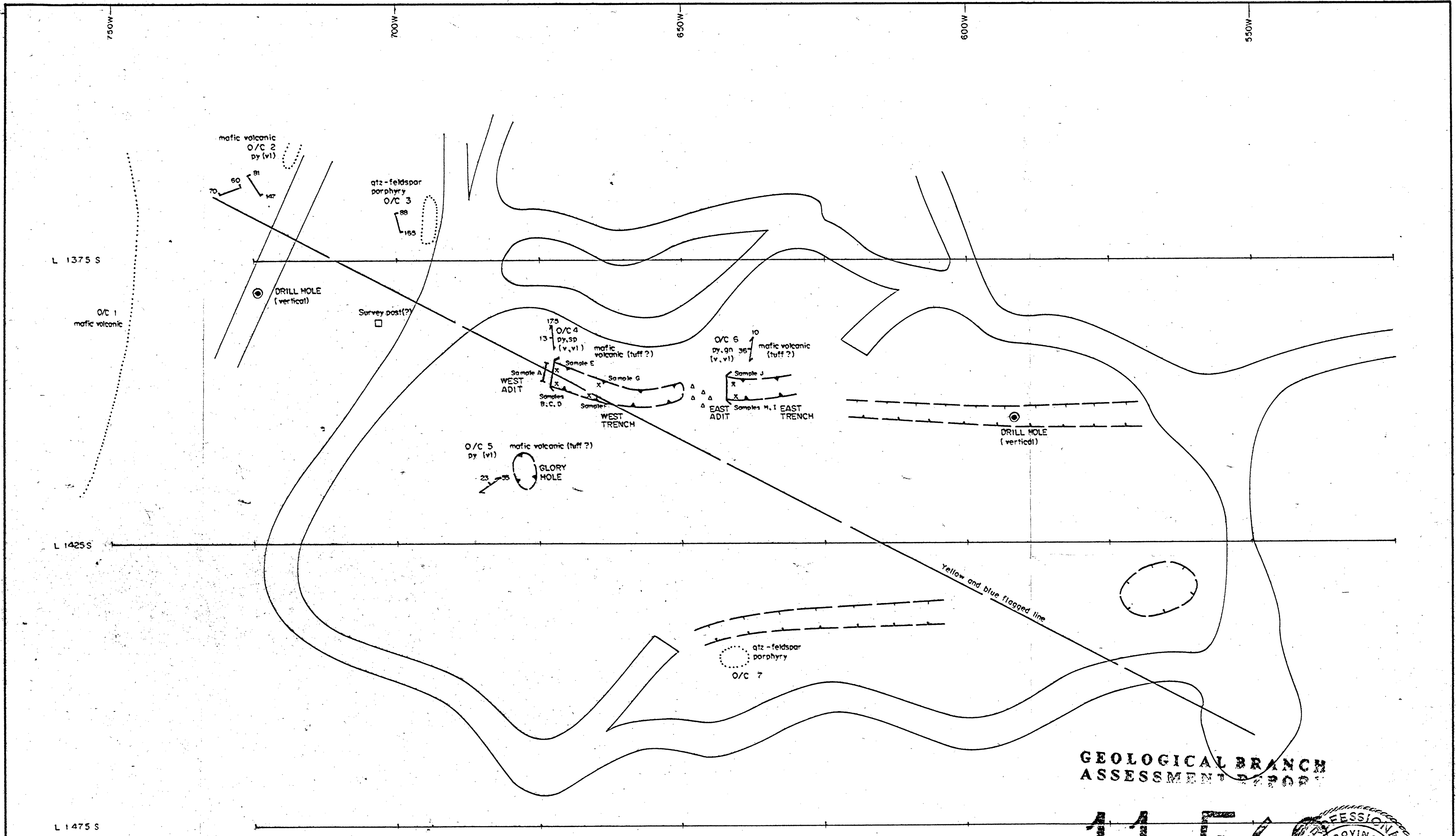
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2625	South			2100	West	60	-8	10	
1275	West	80	-15	10	25	West	60	-12	10
1300	West	70	-14	10	50	West	65	-14	10
25	West	50	-10	10	75	West	65	-14	10
50	West	55	-12	10	2200	West	70	-14	10
75	West	55	-12	10	25	West	70	-14	10
1400	West	50	-14	10	50	West	60	-14	10
25	West	55	-16	10	75	West	70	-8	10
50	West	50	-18	10	2300	West	65	-10	10
75	West	50	-24	10	25	West	70	-10	10
1500	West	55	-26	10	50	West	65	-10	10
25	West	50	-26	10	75	West	80	-8	10
50	West	55	-22	10	2400	West	75	-10	10
75	West	55	-22	10	25	West	70	-6	10
1600	West	60	-22	10	50	West	Cliff		
25	West	60	-20	10	75	West			
50	West	65	-20	10	2500	West			
75	West	70	-14	10					
1700	West	55	-12	10					
25	West	65	-12	10					
50	West	50	-10	10					
75	West	60	-10	10					
1800	West	60	-10	10					
25	West	60	-12	10					
50	West	65	-14	10					
75	West	65	-16	10					
1900	West	75	-14	10					
25	West	70	-14	10					
50	West	65	-12	10					
75	West	70	-12	10					
2000	West	65	-14	10					
25	West	65	-12	10					
50	West	70	-10	10					
75	West	65	-10	10					

		F.S.	Deg.	Gain		F.S.	Deg.	Gain	
2775	South				825	West	80	+5	13
0	West				50	West	75	+7	13
25	West				75	West	65	+6	13
50	West				900	West	70	0	13
75	West				25	West	65	-2	13
100	West				50	West	60	-6	13
25	West				75	West	65	-8	13
50	West				1000	West	60	-8	13
75	West				25	West	60	-8	13
200	West				50	West	65	-10	13
25	West	55	-3	13	75	West	60	-10	13
50	West	60	-4	13	1100	West	60	-8	13
75	West	60	-4	13	25	West	60	-10	13
300	West	60	-7	13	50	West	65	-10	13
25	West	60	-6	13	75	West	60	-10	13
50	West	60	-6	13	1200	West	60	-14	13
75	West	65	-6	13	25	West	60	-14	13
400	West	70	-4	13	50	West	60	-15	13
25	West	60	-7	13	75	West	60	-16	13
50	West	60	-6	13	1300	West	60	-20	13
75	West	60	-6	13					
500	West	60	-6	13					
25	West	60	-8	13					
50	West	65	-8	13					
75	West	70	-7	13					
600	West	70	-8	13					
25	West	85	-8	13					
50	Cross	85	-7	13					
	Road								
75	West	90	-5	13					
700	West	90	-10	13					
25	West	90	-6	13					
50	West	95	-4	13					
75	West	90	-3	13					
800	West	80	+4	13					

		F.S.	Deg.	Gain		F.S.	Deg.	Gain	
2775	South				2100	West	65	-20	10
1275	West	Canyon			25	West	60	-16	10
1300	West				50	West	60	-14	10
25	West		45	-18	13	75	West	65	-17
50	West	45	-20	13	2200	West	65	-18	10
75	West	45	-20	13	25	West	65	-18	10
1400	West	50	-20	13	50	West	65	-16	10
25	West	45	-18	13	75	West	65	-16	10
50	West	45	-14	13	2300	West	55	-20	10
75	West	50	-16	13	25	West	60	-18	10
1500	West	45	-16	13	50	West	60	-18	10
25	West	50	-20	13	75	West	60	-16	10
50	West	50	-25	13	2400	West	70	-12	10
75	West	45	-24	10	25	West	60	-14	10
1600	West	45	-24	10	50	West	65	-12	10
25	West	40	-24	10	75	West	60	-10	10
50	West	40	-28	10	2500	West	70	-8	10
75	West	40	-28	10					
1700	West	40	-25	10					
25	West	40	-26	10					
50	West	50	-22	10					
75	West	55	-22	10					
1800	West	50	-16	10					
25	West	45	-17	10					
50	West	50	-16	10					
75	West	55	-14	10					
1900									
25									
50									
75									
2000									
25									
50									
75	West	60	-18	10					

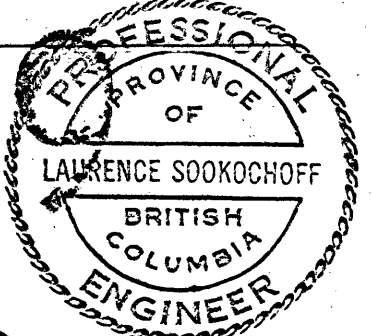
		F.S.	Deg.	Gain		F.S.	Deg.	Gain	
2925	South				825	West	60	-8	13
0	West				50	West	55	-10	13
25	West	}	Canyon		75	West	65	-10	13
50	West			900	West	60	-10	13	
75	West			25	West	65	-10	13	
100	West			50	West	70	-8	13	
25	West			75	West	60	-6	13	
50	West			1000	West	60	-6	13	
75	West			25	West	65	+4	13	
200	West			50	West	55	0	13	
25	West			75	West	60	-7	13	
50	West			1100	West	50	-6	13	
75	West	25	West	60	-10	13			
300	West	60	+5	13	50	West	60	-8	13
25	West	65	+5	13	75	West	60	-8	13
50	West	60	-4	13	1200	West	65	-9	13
75	West	65	-4	13	25	West	60	-12	13
400	West	65	-4	13	50	West	60	-12	13
25	West	60	-5	13					
50	West	65	-5	13					
75	West	65	-4	13					
500	West	65	-6	13					
25	West	60	-4	13					
50	West	65	-4	13					
75	West	60	-4	13					
600	West	60	-6	13					
25	West	65	-6	13					
50	West	65	-8	13					
75	West	60	-6	13					
700	West	65	-8	13					
25	West	65	-8	13					
50	Cross	70	-8	13					
	Road								
75	West	70	-10	13					
800	West	65	-8	13					

		F.S.	Deg.	Gain		F.S.	Deg.	Gain	
2925	South				2100	West	70	-10	10
1275	West	55	-18	13	25	West	60	-10	10
1300	West	60	-14	13	50	West	60	-10	10
25	West	60	-12	13	75	West	50	-12	10
50	West	60	-10	13	2200	West	55	-14	10
75	West	55	-8	13	25	West	50	-14	10
1400	West	55	-12	13	50	West	55	-16	10
25	West	55	-14	13	75	West	55	-18	10
50	West	50	-14	13	2300	West	55	-12	10
75	West	55	-15	13	25	West	60	-16	10
1500	West	55	-15	13	50	West	50	-20	10
25	West	55	-17	13	75	West	60	-20	10
50	West	55	-14	13	2400	West	65	-14	10
75	West	55	-20	13	25	West	65	-12	10
1600	West	55	-20	13	50	West	65	-16	10
25	West	55	-22	13	75	West	70	-14	10
50	West	50	-26	13	2500	West	70	-12	10
75	Start	50	-30	13					
	Rock Slide								
1700	West	65	-28	13					
25	West	70	-28	13					
50	West	65	-23	13					
75	West	65	-18	13					
1800	End	65	-20	13					
	Rock Slide								
25	West	70	-20	13					
50	West	70	-20	13					
75	West	65	-18	13					
1900	West	80	-18	13					
25	West	90	-14	13					
50	West	90	-20	13					
75	West	60	-22	10					
2000	West	70	-42	10					
25	West	80	-36	10					
50	West	90	-30	10					
75	West	80	-6	10					



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LEGEND

- ADIT
- OUTCROP
- TRENCH (CATERPILLAR)
- TRENCH (BLASTED)
- ROAD
- FLAGGED LINE
- RUBBLE
- DRILL HOLE
- SURVEY POST
- FOLIATION
- FRACTURE CLEAVAGE
- ASSAY SAMPLE (HORIZONTAL, VERTICAL)

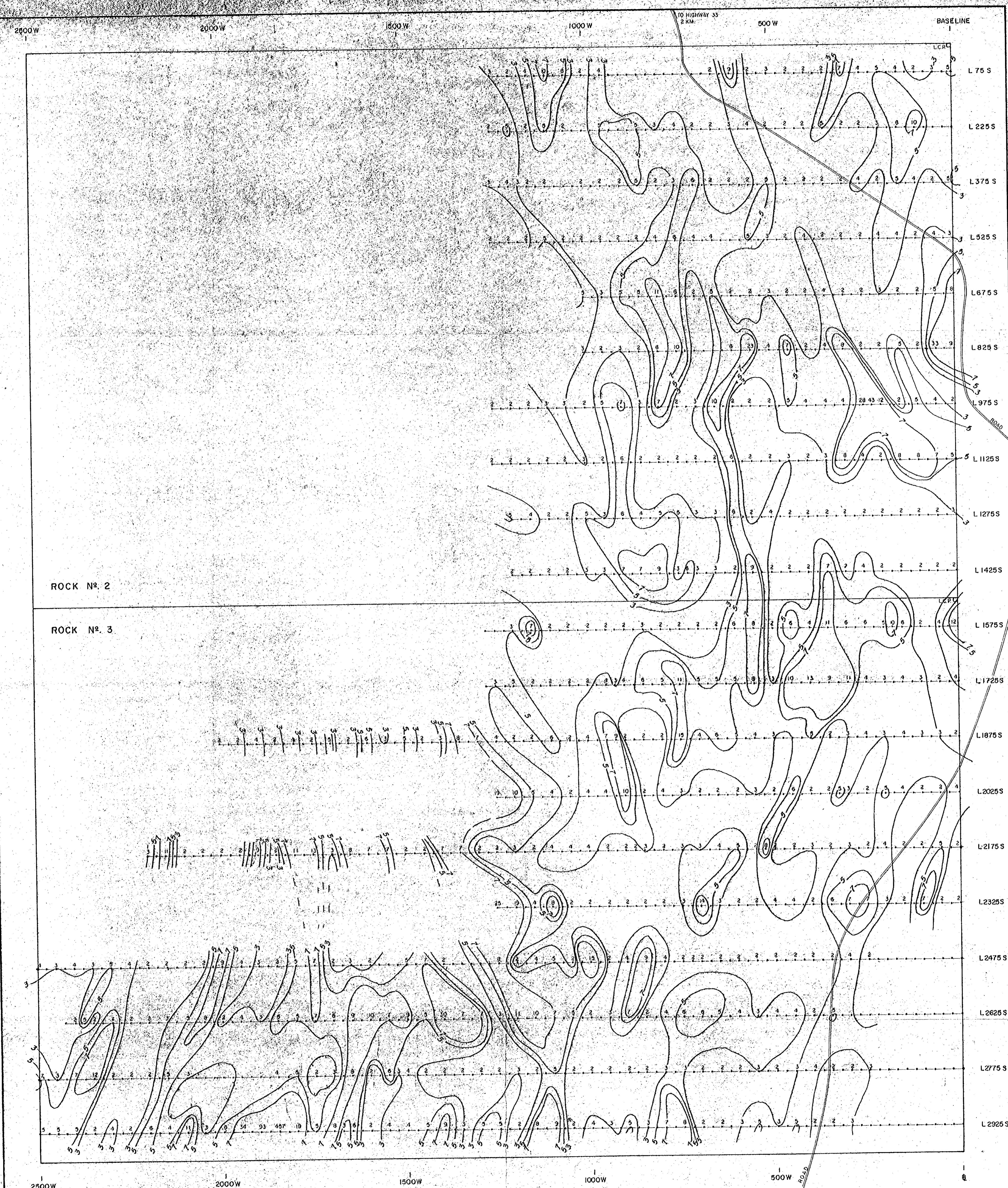
- py PYRITE
- gn GALENA
- sp SPHALERITE
- v VEIN
- vl VEINLET



FIGURE 12

PAN AMERICAN CONSULTANTS LTD.
 QUINELLA EXPLORATION LTD.
 OLD KENTUCKY CLAIM - LOT No 2121
 IMMEDIATE ADIT AREA
 TRENCHING
 N.T.S. 82E-3E GREENWOOD M.D., B.C.
 0 10 20 30 metres
 SCALE 1:500 JUNE 1983

Work done by B.V. Hall



ROCK No. 2

ROCK No. 3

LEGEND
 * STATION
 □ AS IN PPM

PPM
 7 ANOMALOUS
 5 SUB ANOMALOUS
 3 BACKGROUND

**GEOLOGICAL BRANCH
 ASSESSMENT**

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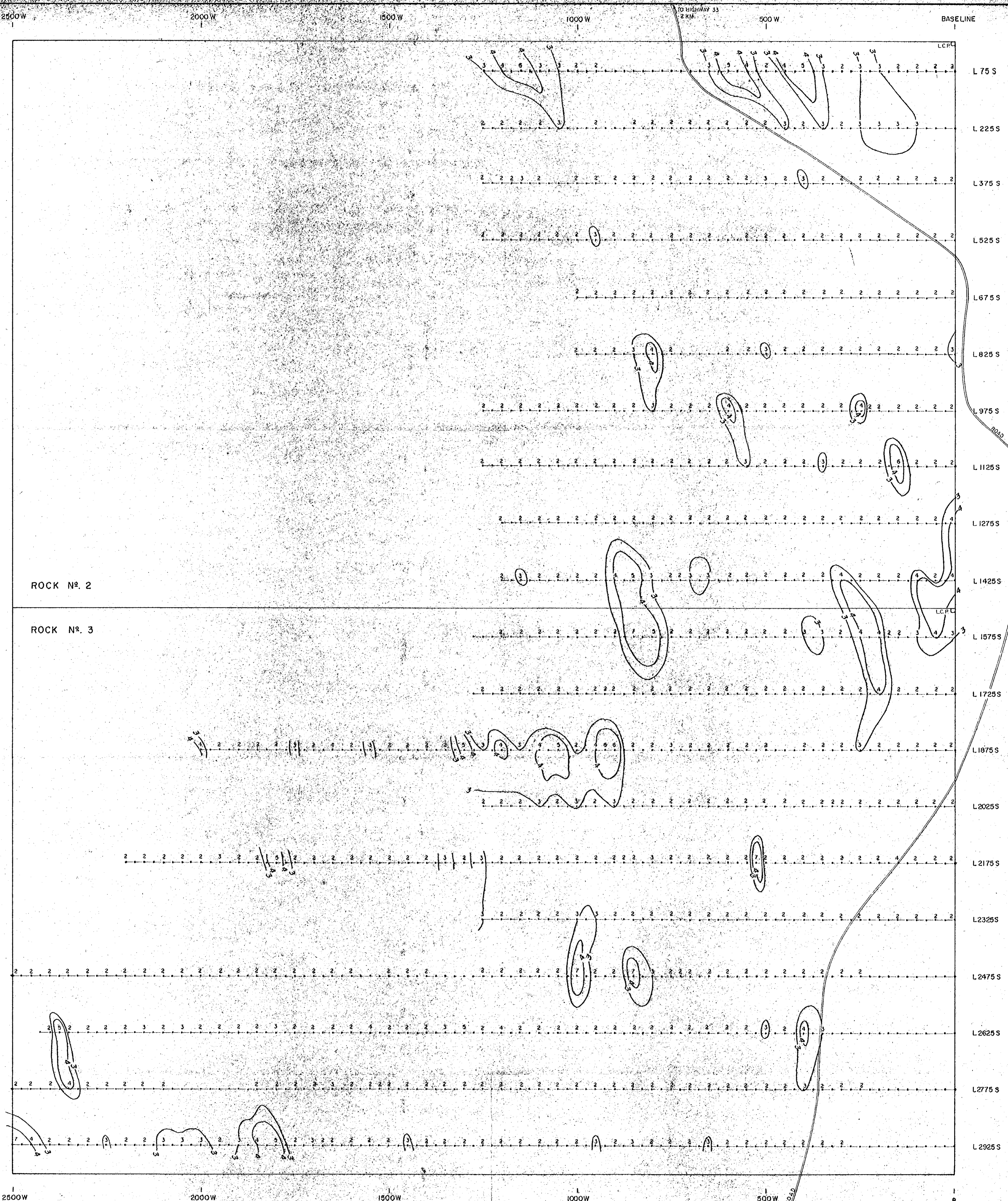
TO ACCOMPANY REPORT BY L. SOOKCHOFF, P. ENG., MAY 1983.

FIGURE 9

PAN AMERICAN CONSULTANTS LTD.
QUINELLA, EXPLORATION LTD.
GEOCHEMISTRY - As

ROCK CLAIMS
 N.T.S. 82E/3E
 GREENWOOD M.D., B.C.

100 0 200 METRES
 SCALE 1:5000
 MAY 1983



ROCK N^o. 2

ROCK N^o. 3

LEGEND

• STATION
 7 56 IN PPM

PPM
 4 ANOMALOUS
 3 SUB ANOMALOUS
 2 BACKGROUND

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

11,569 N

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FIGURE 10

PAN AMERICAN CONSULTANTS LTD.
 QUINELLA EXPLORATION LTD.

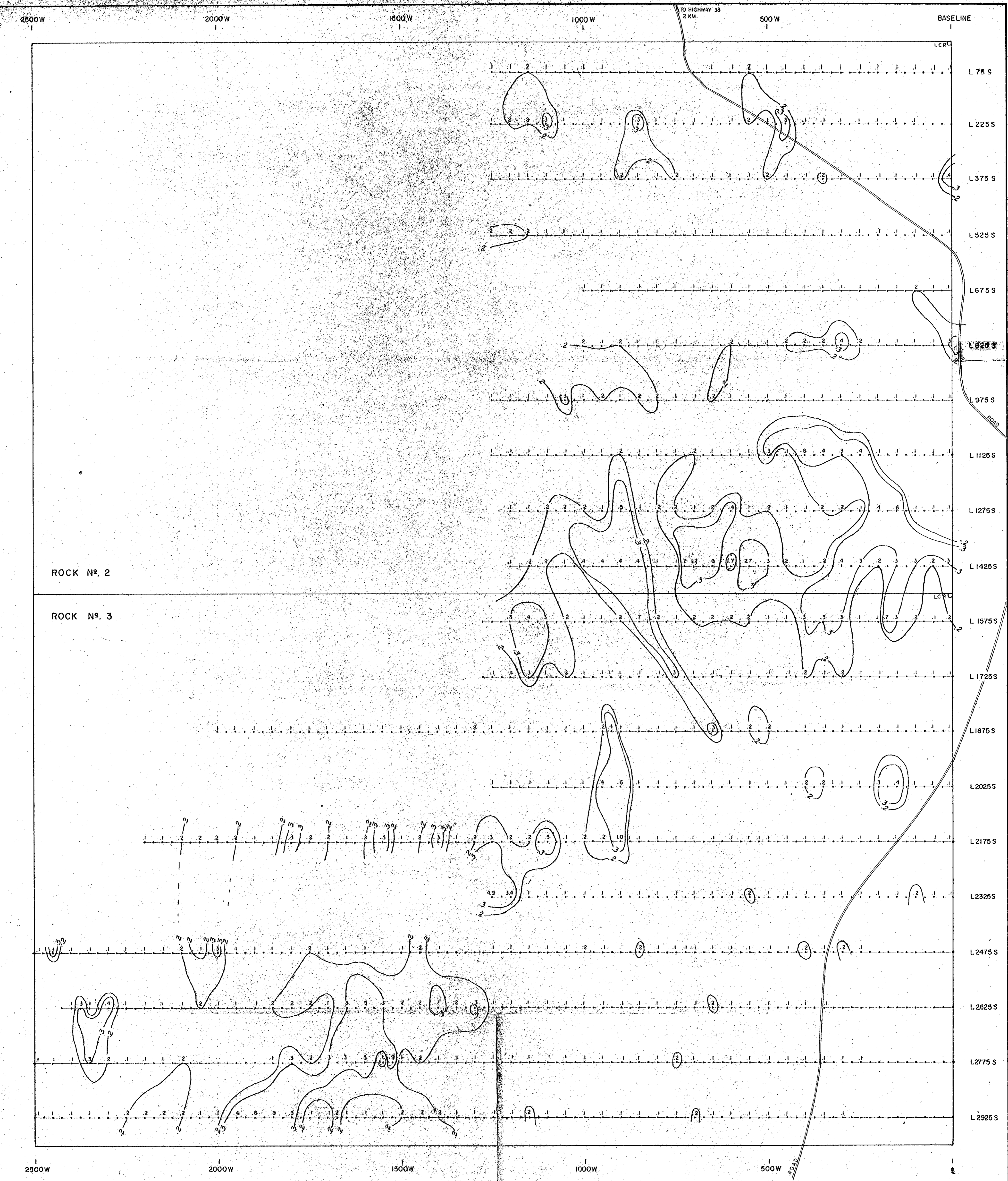
GEOCHEMISTRY-Sb

ROCK CLAIMS
 N.T.S. 82E/3E
 GREENWOOD M.D., B. C.

100 0 200 METRES

SCALE 1:5000

MAY 1983



ROCK No. 2

ROCK No. 3

LEGEND
 • STATION
 4 Ag IN PPM

PPM
 3 ANOMALOUS
 2 SUB ANOMALOUS
 1 BACKGROUND

**GEOLOGICAL BRANCH
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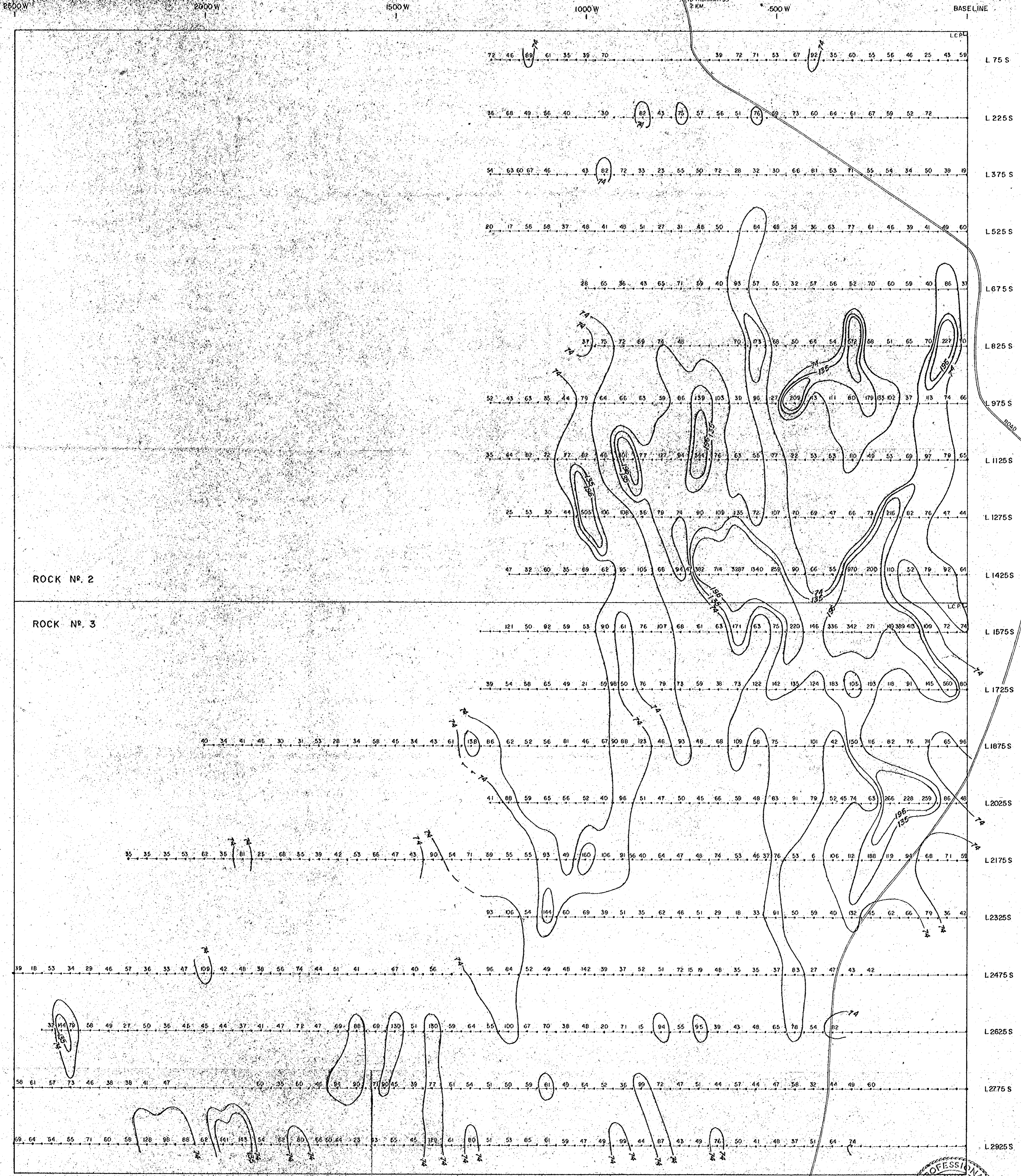


FIGURE 8

PAN AMERICAN CONSULTANTS LTD.
 QUINELLA EXPLORATION LTD.
GEOCHEMISTRY - Ag
 ROCK CLAIMS
 N.T.S. 82E/3E
 GREENWOOD M.D., B.C.

100 0 200 METRES
 SCALE 1:5000 MAY 1983

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ROCK N^o. 2

ROCK N^o. 3

LEGEND

- STATION
- 47 Zn IN PPM

- 196 ANOMALOUS
- 135 SUB ANOMALOUS
- 74 BACKGROUND

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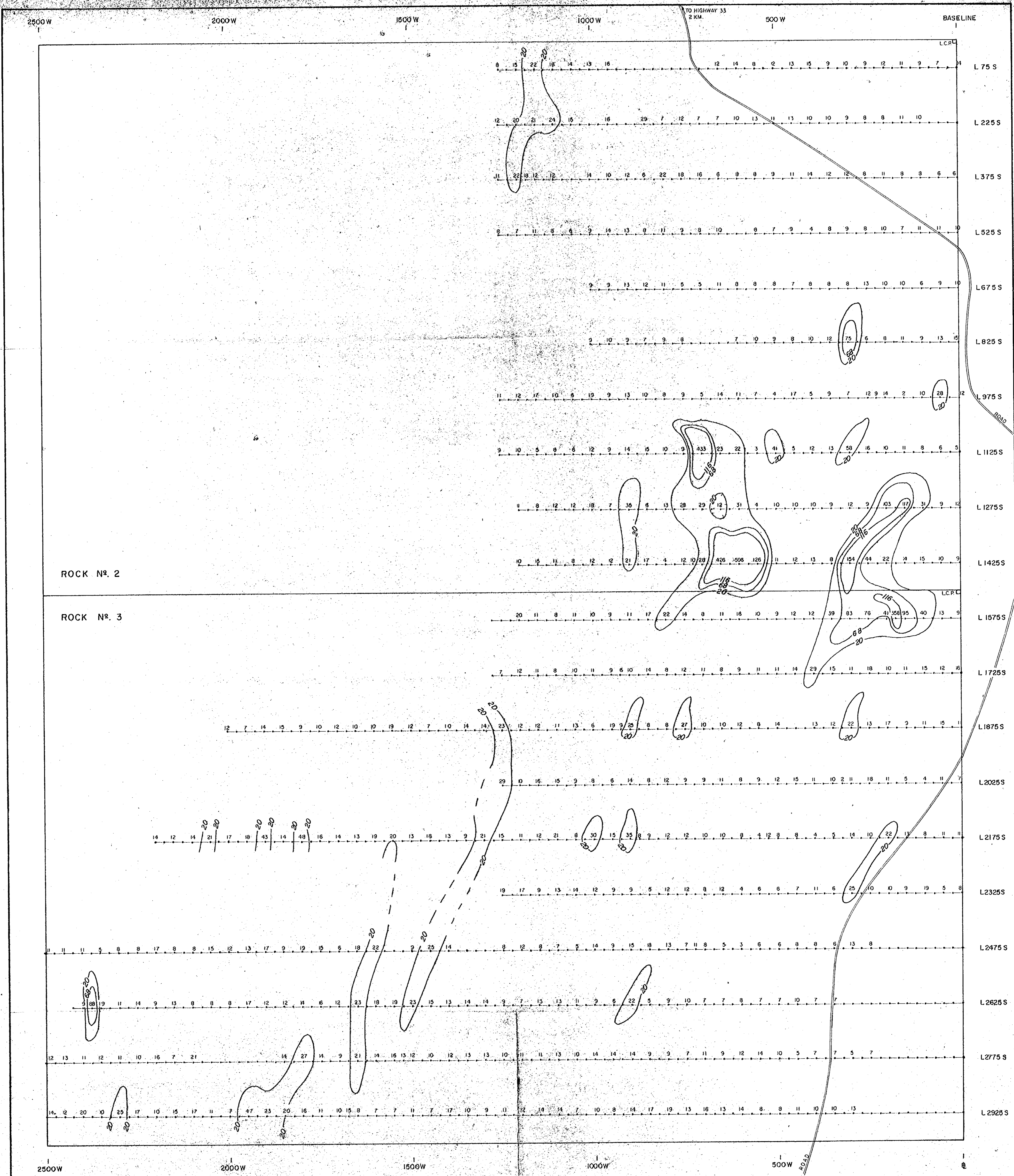


FIGURE 7

PAN AMERICAN CONSULTANTS LTD.
 QUINELLA EXPLORATION LTD.
GEOCHEMISTRY - Zn
 ROCK CLAIMS
 N.T.S. B2E/3E
 GREENWOOD M.D., B.C.

100 0 200 METRES

SCALE 1:5000 MAY 1983



ROCK No. 2

ROCK No. 3

LEGEND
 • STATION
 ○ Pb IN PPM

PPM
 116 ANOMALOUS
 58 SUB ANOMALOUS
 20 BACKGROUND

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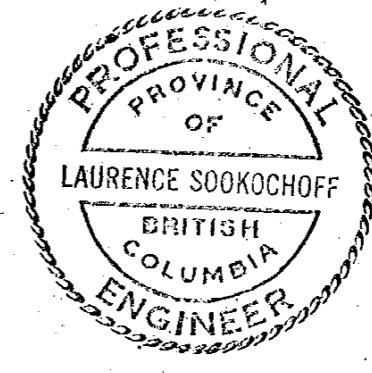
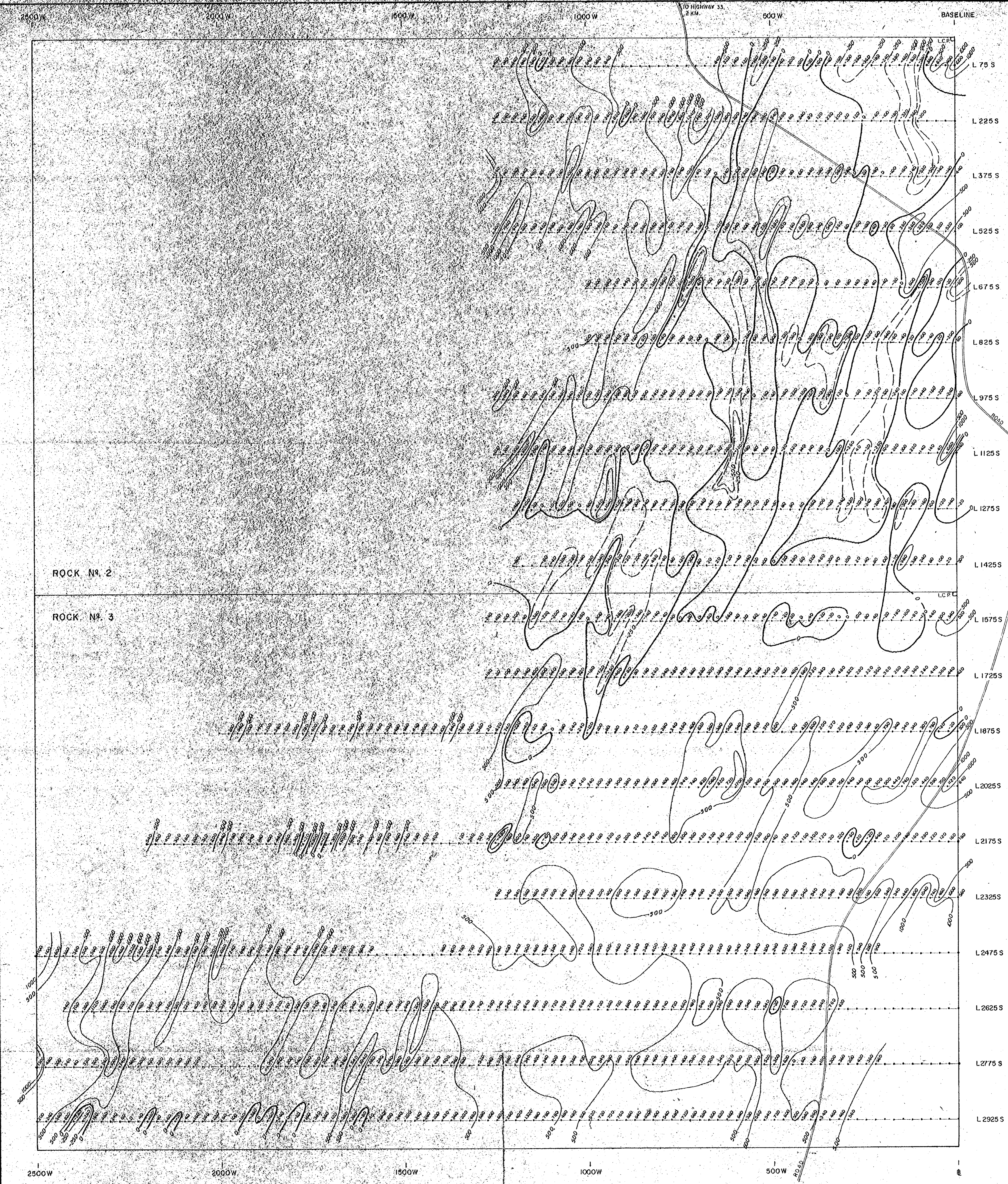


FIGURE 6
 PAN AMERICAN CONSULTANTS LTD.
 QUINELLA EXPLORATION LTD.
GEOCHEMISTRY-Pb
 ROCK CLAIMS
 N.T.S. 82E/3E
 GREENWOOD M.D., B.C.

100 0 200 METRES
 SCALE 1:5000
 MAY 1983



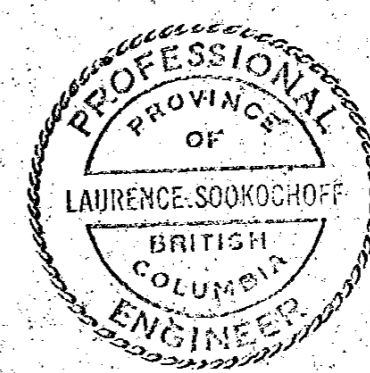
ROCK No. 2

ROCK No. 3

LEGEND
 STATION
 ● MAGNETIC READING IN GAMMAS (54,000)
 — POSITIVE CONTOUR AT 500 & 1000
 ○ CONTOUR AT 54,000
 - - - NEGATIVE CONTOUR AT -500 & -1000
 BASE VALUE 54,000

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

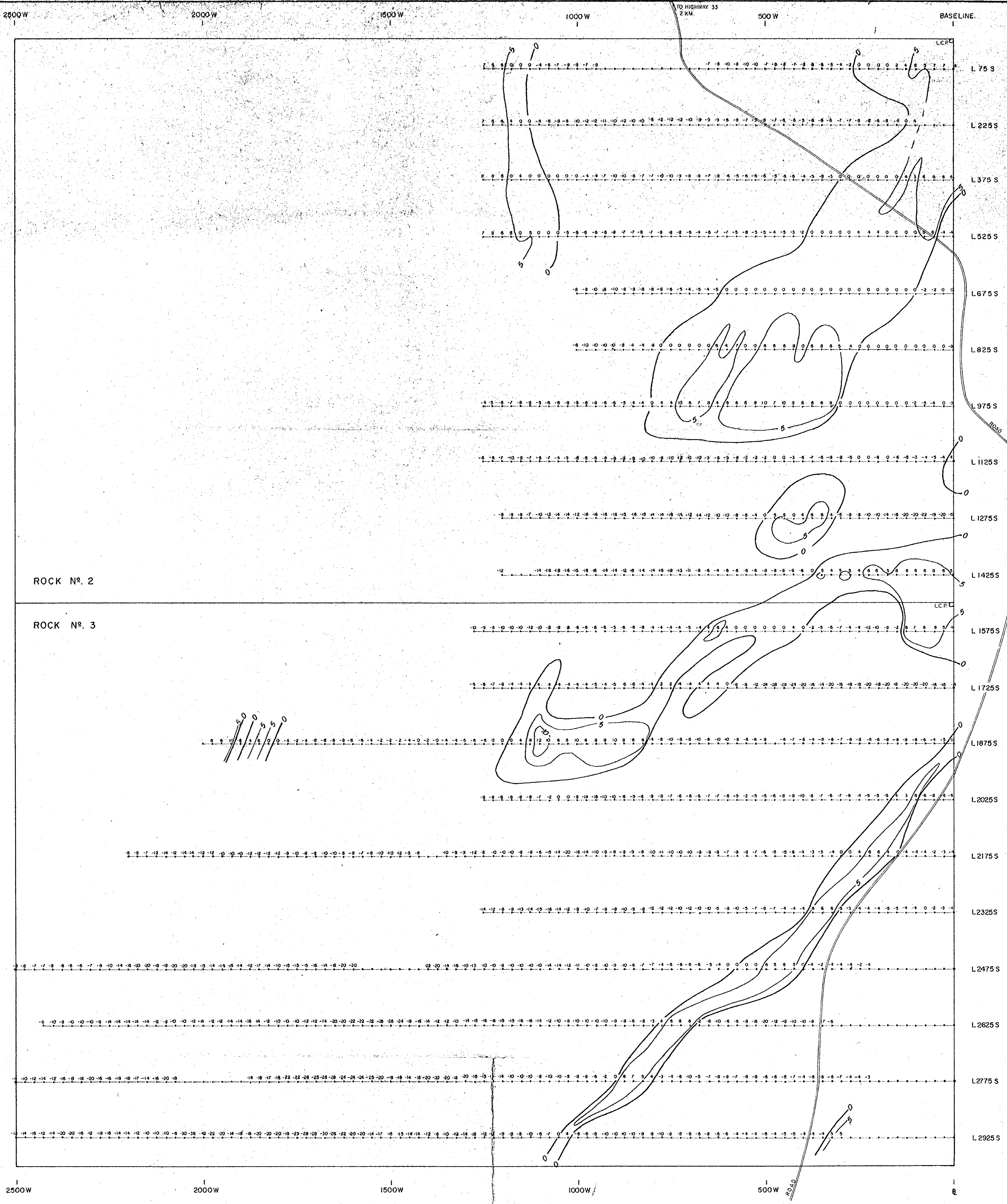
11,569



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FIGURE 5
 PAN AMERICAN CONSULTANTS LTD.
 QUINELLA EXPLORATION LTD.
MAGNETOMETER SURVEY
 ROCK CLAIMS
 N.T.S. 82E/3E
 GREENWOOD M.D., B. C.

100 0 200 METRES
 SCALE 1:5000
 MAY 1983



ROCK No. 2

ROCK No. 3

LEGEND

- STATION
- ∇ FIELD READING, DEGREE
- CONTOUR INTERVAL +5°

**GEOLOGICAL BRANCH
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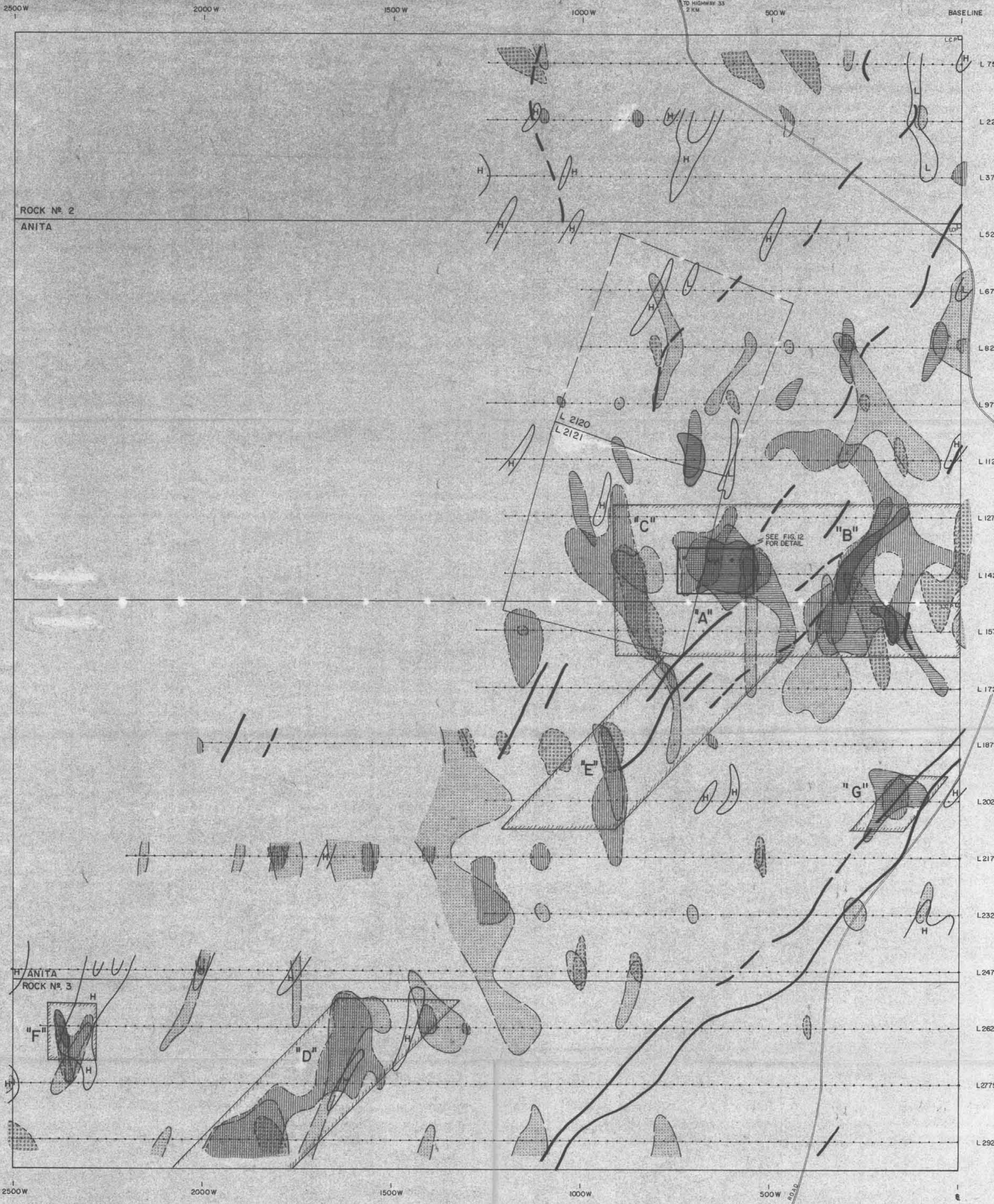
FIGURE 4

PAN AMERICAN CONSULTANTS LTD.
QUINELLA EXPLORATION LTD.
VLF-EM SURVEY
ROCK CLAIMS
N.T.S. 82E/3E
GREENWOOD M.D., B. C.

100 0 200 METRES
SCALE 1:5000

MAY 1983

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ROCK N° 2
ANITA

ANITA
ROCK N° 3

LEGEND

- STATION
- PH ANOMALOUS
- Zp
- Aq
- Ax
- Sb
- VLF-EM CONDUCTOR AXIS (PRIME, SECONDARY)
- MAGNETIC HIGH, LOW
- AREA OF PRIMARY FOLLOW-UP EXPLORATION

**GEOLOGICAL BRANCH
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FIGURE 11

PAN AMERICAN CONSULTANTS LTD.
QUINELLA EXPLORATION LTD.
COMPILATION MAP
ROCK CLAIMS
N.T.S. 82E/3E
GREENWOOD M.D., B.C.

100 0 200 METRES

SCALE 1:5000

MAY 1983

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