

REPORT ON  
GEOLOGICAL, GEOPHYSICAL & GEOCHEMICAL SURVEYS  
ON THE  
DAVE 2 & KP 1 MINERAL CLAIMS  
CHERRY CREEK AREA  
KAMLOOPS MINING DIVISION, BRITISH COLUMBIA  
FOR  
ANITA RESOURCES LTD.  
(FORMERLY INDEX RESOURCES INC.)

July 23, 1981

W. G. Timmins Exploration & Development Ltd.

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cont'd

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CONSULTING GEOLOGISTS

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## SUMMARY

Anita Resources Ltd. (formerly Index Resources Inc.) owns three lode mineral claims comprised of a total of 56 units adjacent to Dorado Resources Ltd. claims and southwest of the Afton Mines Ltd. located approximately 8 miles west of Kamloops, British Columbia.

VLF-EM ground surveys, geochemical soil sampling surveys and geological surveys were carried out during the months of April to June, 1981 over the Dave 2 and KP 1 claims by Trans Arctic Explorations Ltd. and W. G. Timmins Exploration and Development Ltd.

The property is underlain by rocks of the Upper Triassic Nicola Group consisting mainly of volcanic rocks with minor amounts of sedimentary rocks. Exposures of andesites, basalts, agglomerates, brecciated volcanics and minor sedimentary occurrences were observed on the property. The prominent structures of the area are northwest trending faults as indicated by both geology and geophysics, also fracture systems trending to the northeast.

The EM survey has delineated two major continuous lineal faults trending northwest and north northwest as well as several north to northwesterly trending faults or shears. Northwest trending shears are also outlined.

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The geochemical soil sampling survey indicates seven anomalous copper zones several of which correlate with geophysical anomalies. These anomalous zones have been selected for further ground investigation by means of prospecting and bulldozer trenching. A preliminary diamond drilling program would be dependent upon results of the above work.

July 23, 1981

INTRODUCTION

Anita Resources Ltd. (formerly Index Resources Inc.) owns two lode mineral claims comprised of 40 units, adjacent to Dorado Resources Ltd. claims and Southwest of Afton Mines Ltd. which is located about 8 miles West of Kamloops, B. C. In addition the Dave 3 mineral claim comprised of 16 units was staked on the eastern side of the property in order to cover open fractions of land. Only a small portion of this claim will be valid ground as shown on the claim map reproduced for this report.

VLF-EM ground surveys and geochemical soil sampling surveys were carried out over the Dave 2 and KP 1 claims by Trans Arctic Explorations Ltd. during the months of April to June 1981. A geological survey was carried out by W. G. Timmins Exploration & Development Ltd. during the month of May, 1981.

This report is based on an analysis of results of the above surveys.

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PROPERTY

Approximate co-ordinates 50° 37' N., 120° 33' W.

The property consists of three located mineral claims totalling 56 units.

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Expiry Date</u>
Dave 2	20	2797	July 10, 1981
Dave 3	16	3570	July, 1982
KP 1	20	2796	July 10, 1981

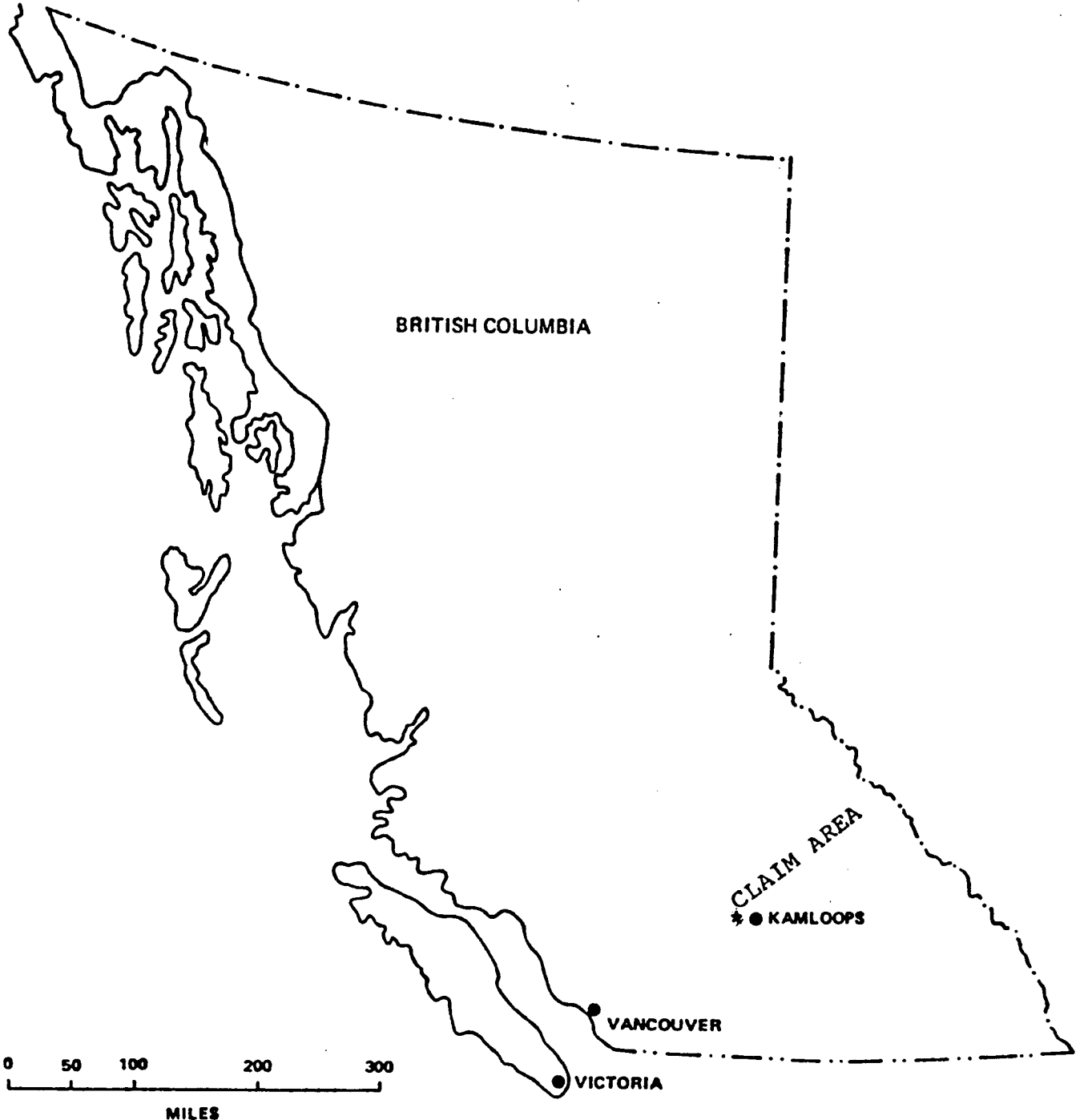
LOCATION & ACCESS

The property is located about 16 km. Southwest of Kamloops, B. C. and is accessible by the Cherry Creek Road being situated about 10 km. South of the Trans Canada Highway.

Kamloops is serviced by highway, CP rail and regular scheduled airline service.

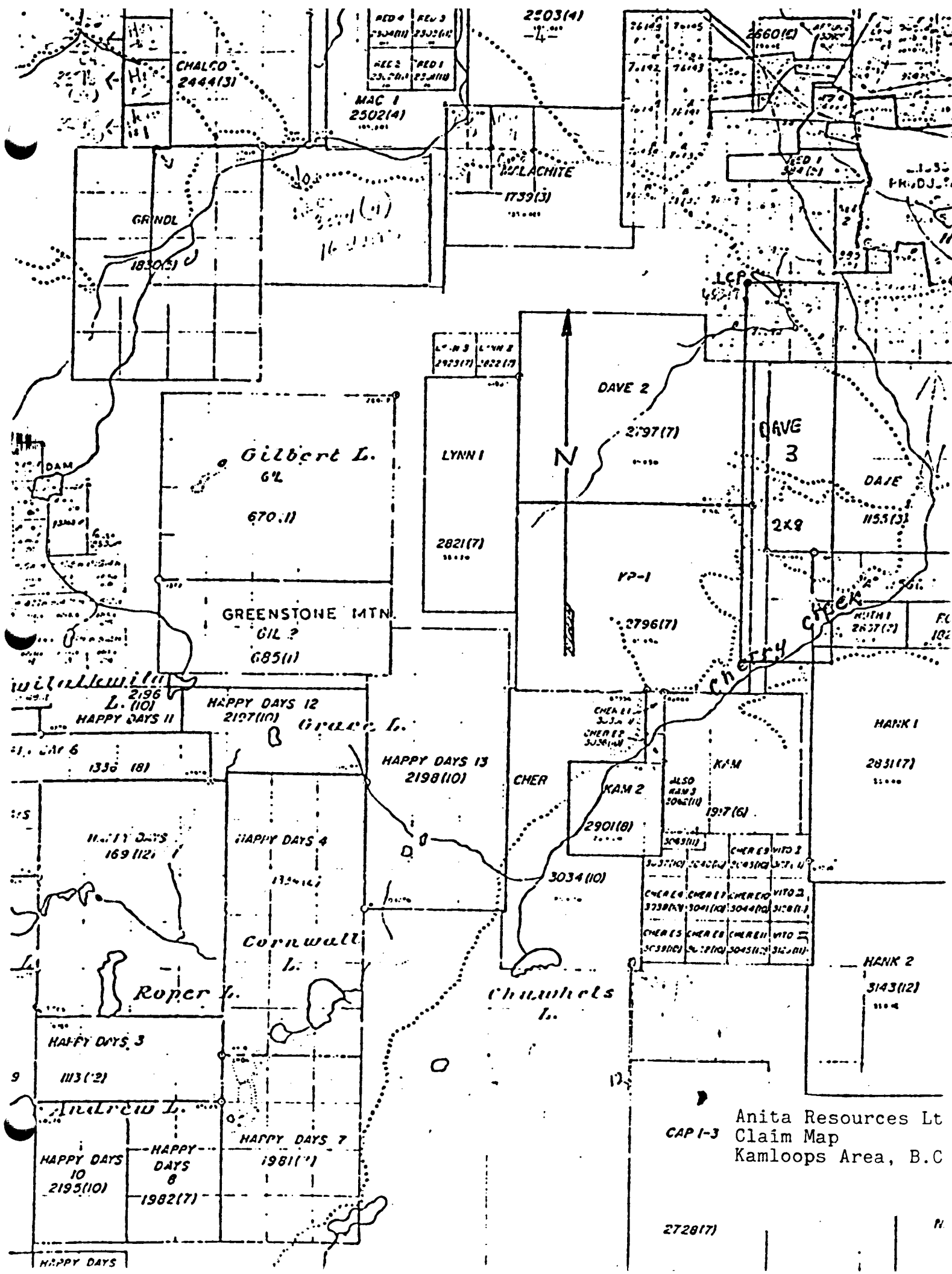
TOPOGRAPHY & VEGETATION

The topography is one of rolling hills with elevations ranging from about 700 meters to 1400 meters above sea level. The region is situated within the dry belt of British Columbia with park-like forest and little underbrush.



Anita Resources Ltd.  
Kamloops Area  
INDEX MAP (B.C.)





Anita Resources Lt  
 Claim Map  
 Kamloops Area, B.C

2728(7)

N

WATER & POWER

Sufficient water for exploration and development should be available from water courses on the property and from Cherry Creek.

Power would have to be supplied by means of diesel electric generators.

HISTORY

Considerable exploration work was carried out in the area during the early 1970's sparked by the Afton Mines copper discovery.

Afton Mines Ltd. has been in continuous production since 1978 and is currently processing some 7500 tons of copper-gold-silver ore per day.

There has currently been exploration activity around the Iron Mask batholith to the east of the property, by several companies including Cominco and Pacific Seadrift Mines Ltd.

Dorado Resources Ltd. has recently been conducting a diamond drilling programme following up prior geophysical surveys, on their claims adjacent to the Anita property on the east.

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Sparse native copper has been reported in the drill holes.

Previous work in the area of the Dave 2 and KP 1 claims possibly covering a portion of the present claims consisted of helicopter borne magnetometer surveys by S. L. Sandner and Associates, photo geological and fracture density studies by D. A. Chapman and Associates Ltd. and a minor amount of ground magnetometer, geological and geochemical work. The work outlined priority areas for further prospecting.

#### REGIONAL GEOLOGY

The area is underlain by the Triassic Nicola Group volcanics. This sequence is overlain by Kamloops Group volcanics. The Nicola Group is intruded by Coast Intrusives consisting mainly of granodiorite and quartz-diorite and by the Iron Mask batholith consisting of syenite, monzonite, diorite and gabbro.

#### GEOLOGY OF THE PROPERTY

The property was geologically mapped by B. Wing, B. Sc. employed by W. G. Timmins Exploration & Development Ltd. during the month of May, 1981. The property is underlain by rocks of the Upper Triassic Nicola Group. This group has large areal development outside the map area, and

consists mainly of volcanic rocks, with minor amounts of sedimentary rocks. Encountered on traverses throughout the area, predominantly at two hundred meter spacings, were andesites, basalts, agglomerates, brecciated volcanics and minor sedimentary occurrences.

The rocks here are not fresh and range from being very highly altered with calcite, chlorite, epidote and minor quartz to a lesser alteration; with hornblende phenocrysts altering to chlorite. The rocks are of the greenstone metamorphic grade with the prominent colour being green to greenish-grey. There is a high degree of epidotization in the rocks with many epidote veinlets present. Throughout the map area the rocks are fine grained to slightly porphyritic depending upon the amount of feldspar present. Hornblende phenocrysts or pseudophenocrysts are present in almost all the volcanic outcrops.

In the agglomerates, which are of an intermediate to mafic chemical composition, there appears to be a colour segregation. Amygdules, where present, are filled with calcite and/or quartz. There is a high degree of chloritization especially along vein margins. Secondary epidote, calcite and quartz are common. A few outcrops of argillite were found on the property and these were finely bedded and occasionally slightly magnetic.

## STRUCTURE

The prominent structures of the area are northwest trending faults which can be observed as ravines between volcanic ridges. The next most prominent direction of fractures in the rock is northeasterly at  $30^{\circ}$  -  $40^{\circ}$ , which is the main direction of structural deformation at the Afton Mine complex to the east.

Numerous quartz and calcite veinlets intersect the outcrops at a variety of directions, and could be considered random. Most large quartz veins strike east - west. No intrusive rocks were encountered in outcrop.

## GROUND VLF-EM SURVEY PROCEDURE

The VLF-EM survey was carried out by a two man crew of Trans Arctic Explorations Ltd. during the months of April to June, 1981. The crew chief was Mr. E. Dodds.

An east - west line grid was employed with lines spaced at 100 meter intervals. Readings were taken at 40 meter spacings along the lines. Both dip angles and field strength readings were taken. The data was Fraser Filtered at 20, 40 and 60 meter intervals and plotted on a map scale of 1:5,000. VLF-EM profile maps of the 20, 40 and 60 meter responses have also been prepared, and are labelled Sheets P1 to P4 inclusive.

A total of approximately 100 line km. of readings were taken.

### GROUND VLF-EM SURVEY RESULTS

The EM survey indicates a long continuous north-northwest trending conductive zone running throughout the property from approximately base line 2, 20 south through base line 1 at line 20 N. This conductive zone is indicative of a major fault structure as indicated by the EM survey running from off the property at approximately line 20 S., 17 E. to line 11 N. at 12 E. where it appears to be truncated by a northeast trending fault. Another north to northwest trending fault structure apparently truncated the northeast fault at about 14 N., 14 E. No outcrop exposure is mapped geologically in this area.

In addition, a northerly trending and intersecting north-northwesterly trending fault structure is mapped in the central eastern section of the property.

Several other northerly trending anomalous responses may represent volcanic facies changes, shearing or possible sulphide mineralization in geochemically anomalous areas.

The major cause of VLF-EM anomalies, as a rule, are geologic structures such as fault, shear and breccia zones. Therefore it is logical to interpret VLF-EM anomalies as likely to

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be caused by these structural zones. Of course sulphides may also be a causitive source, however in much of the Cordillera where VLF-EM anomalies correlate with sulphide mineralization, the anomalies are usually reflecting the structure associated with the mineralization rather than the mineralization itself.

Many of the anomalies on the KP claim group are long and lineal in shape which is also suggestive of structure being the causitive source.

#### GEOCHEMICAL SURVEY PROCEDURE

The soil sampling was carried out on the previously established grid for the VLF-EM and geological surveys; that is three north south base lines and survey lines run in an east-west direction at 100 meter intervals.

Approximately 1706 samples were picked up on the survey lines at 20 to 80 meter centres. It was attempted to sample the B horizon and samples were taken at approximately 8 to 15 centimeters in depth by means of a mattock, then placed in brown wet strength paper bags with grid co-ordinates marked thereon.

TESTING PROCEDURE

All samples were tested by Acme Analytical Laboratories of Vancouver, B. C. The sample is first thoroughly dried then sifted through a -80 mesh screen. A measured amount of the sifted material is then put into a test tube with subsequent measured additions of hot aqua regia. This mixture is next diluted with water. The parts per million (ppm) copper and molybdenum was then measured by atomic absorption.

COMPILATION OF DATA

The sample results in copper ppm and molybdenum ppm were plotted on sheets 5 and 6 respectively, at a scale of 1:5,000. The distribution of results were then examined and parameters chosen as follows:

	<u>Copper</u>	<u>Molybdenum</u>
Mean Background Value	40	1.1
Anomalous Threshold Value	80	3

Seven anomalous copper zones are labelled on sheet 5 as A, B, C, D, E, F and G.

Anomaly A is centred approximately at line 14 N., 24 E., is about 400 meters in length, up to 200 meters in width and with a high copper value of 240 ppm. There is no outcrop

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exposure in this area, however a high EM response occurs on the western flank of the soil anomaly possibly indicative of a sulphide occurrence.

Anomaly B located in the area of line 13 N. and base line 2 is a two line anomaly with a high copper reading of 225 ppm. This zone correlates with a weak EM response indicating a small shallow steeply dipping conductor.

Anomaly C is located in the approximate area of line 3 N., 4 E. is trending north to northwest and is open at the northwest due to unavailability of soil samples. Outcrop exposure nearby indicates that the area is underlain by basalt and brecciated basalt. The anomaly has a peak value of 190 ppm copper and lies along the southwestern flank of the long continuous north-northwest trending fault as indicated by both geology and VLF-EM surveys.

Anomaly D is a one line anomaly only located on the east side of the major fault at about 8 S., and 8 E., however attains a value of 430 ppm copper, lying between two vertically dipping, possibly deep conductive zones.

Anomaly E. is a north-south trending anomalous zone located between lines 13 S. and 19 S. in the approximate area of 14 E. This anomalous zone with values up to 139 ppm copper occurs along and on both sides of the semiparallel northerly trending vertically dipping major fault indicated geophysically

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to the east of base line 2. In addition, a one line anomaly with values up to 164 ppm copper occurs on line 19 S. at 13 E. Sulphide mineralization associated with the fault zone could be present.

Anomaly F occurring on lines 11, 12, 13 S. at 23 E., is north-south trending with copper values up to 225 ppm, situated on the south end of a geophysically indicated north-northwest trending fault or shear zone.

Anomaly G is located on line 7 N. at 7 E. with values up to 190 ppm copper, is open to the west due to sample unavailability, and lies between two westerly dipping converging conductors. The anomaly appears to be underlain by basaltic rocks although no exposure is mapped within the zone.

A number of additional small, generally one line, geochemical anomalies are plotted on the map sheet however, are not assigned exploration priority at this time.

Although all soil samples were run for molybdenum, no values are considered to be anomalous.

CONCLUSIONS AND RECOMMENDATIONS

Anita Resources Ltd. (formerly Index Resources Inc.) owns three lode mineral claims comprised of a total of 56 units adjacent to Dorado Resources Ltd. claims and southwest of Afton Mines Ltd. located approximately 8 miles west of Kamloops, British Columbia.

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The EM survey has delineated two major continuous lineal faults trending northwest and north northwest as well as several north to northwesterly trending faults or shears. Northeast trending shears are also outlined.

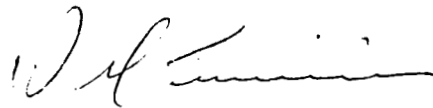
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The geochemical soil sampling survey indicates seven anomalous copper zones several of which correlate with geophysical anomalies. These anomalous zones have been selected for further ground investigation.

It is recommended that the anomalous areas be further investigated by prospecting and, depending on depth of overburden, bull dozer trenching. Should results of this work be encouraging, a preliminary diamond drilling programme would be warranted.

Respectfully submitted;



W. G. Timmins, P. Geol.

W. G. Timmins Exploration & Development Ltd.

T. Tolston, Project Geophysicist  
Columbia Geophysical Services Ltd.

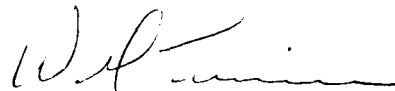
July 23, 1981

CERTIFICATE

I, WILLIAM G TIMMINS maintaining offices at 502 - 900 - 6th Avenue, S. W., Calgary, Alberta, do hereby certify that:

1. I am a geologist having been practicing my profession for seventeen years
2. I am a graduate of the Provincial Institute of Mining, Haileybury, Ontario, and have attended Michigan Technological University, Houghton, Michigan
3. I am a member in good standing of the Association of Professional Engineers of British Columbia, and of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
4. I have no interest direct or indirect in the properties or securities of Anita Resources Ltd.
5. This report is based upon government and private reports, analysis of VLF-EM surveys and geo-chemical soil sampling surveys carried out by Trans Arctic Explorations Ltd., and geological mapping performed by B. Wing, B. Sc. employed by W. G. Timmins Exploration & Development Ltd. and plotting and analysis of data provided by Columbia Geophysical Services Ltd., also several personal visits to the area and the property during 1980 and 1981.

Dated at Calgary, Alberta this 23rd day of July, 1981



W. G. Timmins, P. Geol.  
W. G. Timmins Exploration &  
Development Ltd.

**W. G. TIMMINS EXPLORATION & DEVELOPMENT LTD.**

**CONSULTING GEOLOGISTS**

# Columbia geophysical supplies Ltd.

7050 HALLIGAN STREET, BURNABY, B.C. V5E 1R8

Phone: (604) 526-1732  
or (604) 687-6671

## CERTIFICATE OF QUALIFICATIONS

I, Tom Rolston, of 7050 Halligan Street, Burnaby, B.C. have actively been engaged in my profession since 1953 and state as follows:

1. 1953 to 1964 with the R.C.A.F. as Instrument and Electronic Technician with crew supervisory capacity in various electronic and instrumentation systems.
2. 1964 to 1966 with Kerr-Addison Mines Ltd. as Electronic Technician servicing, repairing and maintaining various types of geophysical instruments. Also two seasons as Field Supervisor and Geophysical Instrument Operator in mining exploration, including airborne and ground geophysical surveys, geochemical surveys, geophysical and geochemical drafting and mapping.
3. 1966 to 1981 contracting geophysical/geochemical surveys in close association with mining engineers for various mining companies as Exploration Manager and Field Supervisor of geophysical and geochemical surveys and Instrument Operator of various geophysical instruments such as airborne and ground systems magnetometer, electromagnetic, gravity meter, self-potential meter, scintillometer and induced polarization.
4. Exploration Manager of Columbia Geophysical Services Ltd., airborne geophysical services.

Dated at Burnaby, British Columbia this            day of            1981.

Tom Rolston, Project Manager

REFERENCES

Geological Survey of Canada, memoir 249, by W. E. Cockfield, 1961

Dorado Resources Ltd., News Release, August 26, 1980

Dorado Resources Ltd., Annual Report, 1981

APPENDIX I



## INSTRUMENTATION AND THEORY:

### VLF-EM Unit:

A VLF-EM receiver, Model 27, manufactured by Sabre Electronic Instruments Ltd. of Burnaby, B.C. was used for the VLF-EM survey. This instrument is designed to measure the electromagnetic component of the very low frequency field (VLF), transmitted at 18.6 KHz, from Seattle, Washington or at 17.8 KHz from Cutler, Maine.

In all electromagnetic prospecting, a transmitter produces an alternating magnetic field (primary) by a strong alternating current usually through a coil of wire. If a conductive mass such as a sulphide body is within this magnetic field, a secondary alternating current is induced within it which in turn induces a secondary magnetic field that distorts the primary magnetic field. It is this distortion that the EM receiver measures. The VLF-em uses a frequency range from 16 to 24 KHz, whereas most EM instruments use frequencies ranging from a few hundred to a few thousand Hz. Because of its relatively high frequency, the VLF-EM can pick up bodies of a much lower conductivity and therefore is more susceptible to clay beds, electrolyte-filling fault or shear zones and porous horizons, graphite, carbonaceous sediments, lithological contacts as well as sulphide bodies of too low a conductivity for other EM methods to pick up. Consequently, the VLF-EM has additional uses in mapping structure and in picking up sulphide bodies of too low a conductivity for conventional EM methods and too small for induced polarization. (In places it can be used instead of I.P.). However, its susceptibility to lower conductive bodies results in a number of anomalies, many of them difficult to explain and, thus, VLF-EM preferably should not be interpreted without a good geological knowledge of the property and/or other geophysical and geochemical surveys.

APPENDIX II



To: Trans Arctic Exploration  
1807 - 1450 W. Georgia St.,  
Vancouver, B.C.

KPI claim

File No. 81-0453

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.		Mo	Cu												
0	0	1	7												1
	14	1	22												2
	28	1	16												3
	32	1	36												4
	36	1	86												5
	44	1	56												6
	48	1	61												7
	56	1	35												8
	60	1	62												9
	64	1	25												10
	68	2	34												11
	76	1	21												12
	80	1	30												13
	84	1	22												14
	88	1	47												15
	92	1	49												16
	96	1	16												17
	104	1	27												18
0	112	1	22												19
															20
1S	4	2	28												21
	8	1	10												22
	16	1	34												23
	24	1	14												24
	28	1	10												25
	32	1	6												26
	56	1	20												27
	60	2	23												28
	68	1	50												29
	76	2	30												30
	80	1	23												31
	84	1	31												32
	88	1	27												33
	100	3	27												34
	108	1	30												35
	112	1	75												36
	116	1	76												37
	120	1	46												38
	132	1	49												39
1S	136	1	15												40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED.....

DATE REPORTS MAILED June 15 1981

ASSAYER *DTJ*

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Trans Arctic Exploration

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone:253 - 3158

File No. 81-0453

Type of Samples

Disposition

# GEOCHEMICAL ASSAY CERTIFICATE

1A	SAMPLE No.	Mo	Cu										
	1S 140	1	40										1
	144	1	29										2
	152	1	51										3
	156	1	48										4
	164	1	74										5
	168	1	36										6
	176	1	18										7
	180	1	23										8
	184	1	18										9
	192	1	23										10
	196	1	13										11
	200	1	143										12
	208	1	29										13
	212	1	22										14
	216	1	14										15
	228	1	20										16
	236	1	31										17
	240	1	70										18
	244	1	28										19
	1S 248	1	52										20
													21
	2S 4	2	16										22
	8	1	55										23
	16	1	7										24
	24	1	21										25
	32	1	24										26
	48	1	27										27
	56	3	10										28
	64	1	27										29
	72	1	10										30
	84	1	19										31
	92	1	33										32
	96	1	31										33
	104	1	139										34
	112	1	67										35
	116	1	96										36
	124	1	16										37
	128	1	15										38
	2S 140	1	30										39
													40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED.....

DATE REPORTS MAILED.....

ASSAYER

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Trans Arctic Exploration

ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R8

phone:253 - 3158

File No. 81-0453

Type of Samples

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

2

SAMPLE No.	Mo	Cu																		
2S 144	1	42																		1
152	1	15																		2
156	1	47																		3
160	1	59																		4
168	1	103																		5
176	1	16																		6
184	1	16																		7
188	1	13																		8
196	1	76																		9
200	1	59																		10
208	1	45																		11
220	1	23																		12
224	1	16																		13
228	1	29																		14
232	1	25																		15
240	1	17																		16
244	1	62																		17
2S 248	1	82																		18
																				19
3S 0	1	30																		20
4	1	26																		21
12	1	53																		22
16	1	11																		23
24	1	26																		24
28	1	14																		25
32	2	12																		26
40	3	38																		27
44	2	26																		28
48	2	8																		29
60	3	11																		30
64	2	34																		31
72	1	30																		32
76	1	16																		33
84	1	10																		34
88	1	20																		35
96	1	11																		36
104	1	15																		37
3S 116	2	23																		38
																				39
																				40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED.....

DATE REPORTS MAILED.....

ASSAYER OKL

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Trans Arctic Exploration

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone:253 - 3158

File No. 81-0453

Type of Samples

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

3

SAMPLE No.	Mo	Cu																			
3S 124	1	14																			1
132	1	19																			2
136	1	16																			3
140	1	31																			4
148	1	54																			5
156	1	30																			6
164	1	23																			7
172	1	32																			8
188	1	28																			9
192	1	20																			10
196	1	30																			11
204	1	23																			12
208	1	23																			13
216	1	82																			14
220	1	18																			15
224	1	25																			16
236	1	47																			17
3S 248	1	50																			18
																					19
4S 0	1	8																			20
20	2	23																			21
24	1	17																			22
28	1	20																			23
32	1	16																			24
36	1	35																			25
40	1	14																			26
44	1	8																			27
48	1	33																			28
52	1	20																			29
56	1	20																			30
60	1	16																			31
64	1	23																			32
76	1	15																			33
92	1	15																			34
96	1	15																			35
108	1	16																			36
128	1	12																			37
4S 132	1	22																			38
																					39
																					40


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DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER

To: Trans Arctic Exploration

File No. 81-0453

Type of Samples \_\_\_\_\_

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

SAMPLE No.	Mo	Cu																		
4S 136	1	22																		1
160	1	13																		2
172	1	16																		3
184	1	70																		4
196	1	18																		5
204	1	24																		6
208	1	34																		7
216	1	26																		8
220	1	54																		9
212	1	22																		10
4S 240	1	26																		11
																				12
5S 0	1	79																		13
8	1	59																		14
20	1	18																		15
32	1	31																		16
40	1	23																		17
56	1	33																		18
68	1	58																		19
80	1	42																		20
92	1	16																		21
96	1	19																		22
100	1	22																		23
104	1	19																		24
112	1	45																		25
116	1	18																		26
124	1	14																		27
128	1	23																		28
132	1	22																		29
140	1	50																		30
144	1	11																		31
148	1	80																		32
152	1	13																		33
156	1	36																		34
164	1	13																		35
168	1	34																		36
172	1	15																		37
5S 180	1	74																		38
																				39
																				40

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ASSAYER *Deane Toye*

DEAN TOYE, B.Sc.  
 CHIEF CHEMIST  
 CERTIFIED B.C. ASSAYER



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File No. 81-0453

Type of Samples

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

5	SAMPLE No.	Mo	Cu																		
	5S 184	1	62																		1
	188	1	59																		2
	192	1	35																		3
	200	2	28																		4
	204	1	34																		5
	208	1	151																		6
	216	1	35																		7
	220	1	14																		8
	224	1	20																		9
	228	1	38																		10
	232	1	36																		11
	240	1	38																		12
	244	1	19																		13
	5S 248	1	19																		14
																					15
	6S 0	1	16																		16
	8	1	52																		17
	16	1	37																		18
	36	1	25																		19
	48	1	30																		20
	60	1	11																		21
	72	1	24																		22
	84	1	16																		23
	92	1	11																		24
	100	1	18																		25
	112	1	28																		26
	116	1	26																		27
	120	1	35																		28
	128	1	28																		29
	140	1	62																		30
	148	2	53																		31
	160	1	31																		32
	168	1	85																		33
	176	1	25																		34
	184	1	17																		35
	188	1	20																		36
	196	1	14																		37
	6S 200	1	16																		38
																					39
																					40

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Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

6

SAMPLE No.	Mo	Cu																			
6S 204	1	31																			1
208	1	24																			2
212	2	22																			3
216	1	23																			4
220	1	21																			5
224	1	14																			6
228	1	33																			7
232	1	16																			8
236	1	40																			9
240	1	15																			10
244	1	74																			11
6S 248	1	30																			12
																					13
7S 0	1	25																			14
4	1	22																			15
8	1	22																			16
12	1	63																			17
32	1	48																			18
60	1	32																			19
72	1	37																			20
84	2	18																			21
88	1	28																			22
96	1	17																			23
104	1	31																			24
112	1	20																			25
116	1	22																			26
128	1	25																			27
140	1	18																			28
144	1	26																			29
148	1	33																			30
152	1	25																			31
160	1	27																			32
164	1	31																			33
168	1	60																			34
172	1	17																			35
176	1	17																			36
180	1	24																			37
184	1	34																			38
7S 188	1	125																			39
																					40

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 CHIEF CHEMIST  
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**GEOCHEMICAL ASSAY CERTIFICATE**

7

SAMPLE No.	Mo	Cu																		
7S 192	1	22																		1
196	1	30																		2
200	1	45																		3
204	1	28																		4
208	1	14																		5
212	2	24																		6
216	1	21																		7
220	1	14																		8
224	1	17																		9
232	1	44																		10
236	1	18																		11
240	1	15																		12
244	1	60																		13
7S 248	1	25																		14
																				15
8S 0	1	25																		16
8	1	34																		17
16	1	25																		18
20	1	26																		19
28	1	41																		20
32	2	39																		21
48	1	27																		22
60	1	80																		23
68	2	23																		24
80	1	35																		25
84	1	430																		26
116	1	19																		27
120	2	28																		28
124	1	26																		29
128	1	11																		30
136	1	19																		31
140	1	36																		32
144	1	28																		33
148	1	14																		34
152	1	19																		35
156	1	14																		36
160	1	17																		37
8S 168	1	11																		38
																				39
																				40

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Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

8

SAMPLE No.	Mo	Cu																		
8S 172	1	28																		1
176	1	30																		2
180	1	33																		3
188	1	49																		4
196	2	40																		5
200	1	17																		6
204	1	21																		7
208	1	22																		8
212	1	16																		9
216	1	17																		10
220	1	21																		11
224	1	17																		12
228	1	52																		13
228A	1	24																		14
232	1	16																		15
236	1	20																		16
8S 240	1	16																		17
																				18
9S 8	1	26																		19
20	1	19																		20
44	1	19																		21
56	1	31																		22
68	1	19																		23
80	1	14																		24
92	1	98																		25
120	1	21																		26
124	1	19																		27
128	1	31																		28
132	1	35																		29
136	1	42																		30
140	1	19																		31
144	1	11																		32
148	1	26																		33
152	1	13																		34
156	1	30																		35
160	1	22																		36
164	1	10																		37
9S 168	1	18																		38
																				39
																				40

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### GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu																			
9S 172	2	22																			
176	1	26																			1
180	1	45																			2
184	1	53																			3
188	1	57																			4
192	1	19																			5
196	1	27																			6
200	1	48																			7
204	1	23																			8
208	1	49																			9
212	3	24																			10
216	1	103																			11
220	1	44																			12
224	1	35																			13
228	1	118																			14
232	1	15																			15
236	1	39																			16
240	1	14																			17
244	1	64																			18
9S 248	1	24																			19
																					20
10S 12	1	25																			21
24	1	15																			22
32	1	30																			23
40	1	15																			24
48	1	20																			25
60	3	51																			26
68	1	240																			27
76	1	15																			28
84	1	42																			29
92	1	36																			30
100	1	53																			31
112	1	22																			32
120	1	20																			33
132	1	28																			34
136	2	3																			35
140	1	8																			36
10S 144	1	13																			37
																					38
																					39
																					40

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Type of Samples

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

10

SAMPLE No.	Mo	Cu																			
10S 148	1	25																			1
152	1	17																			2
156	1	50																			3
160	2	13																			4
164	1	22																			5
168	1	23																			6
172	1	46																			7
176	1	52																			8
180	1	58																			9
184	1	30																			10
192	1	42																			11
196	1	88																			12
200	1	40																			13
212	1	14																			14
216	1	21																			15
220	2	54																			16
224	1	26																			17
228	1	60																			18
232	1	28																			19
236	1	22																			20
240	1	51																			21
244	1	73																			22
10S 248	1	28																			23
11S 4	1	21																			24
20	1	138																			25
40	1	17																			26
60	1	36																			27
80	1	23																			28
108	1	29																			29
116	1	27																			30
120	1	22																			31
124	2	18																			32
128	1	25																			33
132	1	17																			34
136	1	24																			35
140	2	27																			36
11S 144	1	24																			37
																					38
																					39
																					40

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Type of Samples

Disposition

# GEOCHEMICAL ASSAY CERTIFICATE

11

SAMPLE No.	Mo	Cu																			
11S 148	1	46																			1
152	1	58																			2
156	1	28																			3
160	1	53																			4
164	1	59																			5
168	1	20																			6
172	1	13																			7
176	1	47																			8
180	1	80																			9
184	1	62																			10
192	1	48																			11
196	1	26																			12
200	2	23																			13
204	1	51																			14
208	1	28																			15
212	1	57																			16
216	1	73																			17
220	1	53																			18
224	1	91																			19
228	1	40																			20
232	1	71																			21
236	1	98																			22
240	1	31																			23
244	1	55																			24
11S 248	1	35																			25
																					26
12S 12	1	34																			27
16	1	20																			28
20	1	23																			29
28	1	29																			30
32	1	21																			31
36	2	48																			32
40	1	45																			33
48	1	25																			34
52	2	40																			35
56	1	20																			36
60	1	16																			37
12S 72	1	31																			38
																					39
																					40

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### GEOCHEMICAL ASSAY CERTIFICATE

12

SAMPLE No.		Mo	Cu																		
12S	76	1	19																		1
	80	1	24																		2
	88	1	19																		3
	92	1	12																		4
	96	1	30																		5
	104	1	24																		6
	112	1	18																		7
	120	1	34																		8
	132	1	24																		9
	140	1	13																		10
	144	1	30																		11
	148	1	34																		12
	152	1	54																		13
	156	1	27																		14
	160	1	58																		15
	168	1	23																		16
	172	1	22																		17
	180	1	25																		18
	184	1	18																		19
	192	1	22																		20
	196	1	27																		21
	200	1	45																		22
	204	1	41																		23
	208	1	62																		24
	212	1	24																		25
	216	1	45																		26
	220	1	28																		27
	224	1	61																		28
12S	228	1	71																		29
																					30
13S	88	1	11																		31
	92	1	30																		32
	96	1	22																		33
	100	1	32																		34
	108	1	45																		35
	112	1	69																		36
	116	1	24																		37
12S	120	1	56																		38
																					39
																					40

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### GEOCHEMICAL ASSAY CERTIFICATE

13

SAMPLE No.	Mo	Cu												
13S 124	1	43												1
128	1	21												2
132	1	133												3
136	1	19												4
140	1	36												5
144	1	29												6
148	1	21												7
152	1	28												8
156	1	32												9
160	1	99												10
164	1	38												11
168	1	35												12
172	1	19												13
176	1	26												14
180	1	36												15
184	2	48												16
188	1	25												17
192	1	38												18
196	1	19												19
200	1	52												20
204	1	38												21
208	1	41												22
212	1	27												23
216	1	40												24
220	1	77												25
224	1	31												26
228	2	48												27
232	1	225												28
236	1	46												29
240	1	45												30
244	1	34												31
13S 248	1	32												32
														33
14S 4	2	35												34
8	1	34												35
12	2	14												36
16	1	19												37
14S 20	2	30												38
														39
														40

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### GEOCHEMICAL ASSAY CERTIFICATE

14

SAMPLE No.	Mo	Cu												
14S 24	2	116												1
28	1	82												2
32	1	26												3
36	1	33												4
40	1	32												5
44	1	24												6
48	1	17												7
52	1	18												8
56	1	22												9
60	1	17												10
64	1	20												11
68	1	10												12
72	1	20												13
76	2	62												14
80	1	8												15
84	1	40												16
88	1	16												17
92	1	13												18
96	1	40												19
100	1	29												20
104	1	86												21
108	1	21												22
112	1	12												23
116	1	17												24
120	1	125												25
128	1	21												26
132	1	13												27
136	1	79												28
140	1	20												29
14S 144	1	27												30
14S 148	2	17												31
152	1	58												32
156	1	28												33
160	1	27												34
164	3	30												35
168	1	30												36
14S 172	1	23												37
														38
														39
														40

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Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

15

SAMPLE No.	Mo	Cu																			
15S 92	1	92																			1
96	1	16																			2
100	1	22																			3
104	1	18																			4
108	1	23																			5
112	1	21																			6
116	1	31																			7
120	1	17																			8
124	1	40																			9
128	1	34																			10
132	1	114																			11
136	1	19																			12
140	1	59																			13
144	1	43																			14
148	2	44																			15
152	2	130																			16
156	1	24																			17
160	1	64																			18
164	1	38																			19
168	1	24																			20
172	1	33																			21
176	1	32																			22
180	1	32																			23
184	1	29																			24
188	1	33																			25
196	1	28																			26
200	1	43																			27
204	1	18																			28
208	1	27																			29
212	1	79																			30
212A	1	25																			31
216	1	26																			32
220	1	48																			33
224	1	29																			34
228	1	40																			35
232	1	48																			36
236	1	49																			37
15S 240	1	27																			38
																					39
																					40

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DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Trans Arctic Exploration

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone:253 - 3158

File No. 81-0453

Type of Samples

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

16

SAMPLE No.	Mo	Cu																			
15S 244	1	36																			1
15S 248	1	38																			2
																					3
16S 0	1	20																			4
4	1	25																			5
12	1	38																			6
16	1	51																			7
20	2	33																			8
24	1	48																			9
28	1	40																			10
32	1	21																			11
36	1	77																			12
40	1	81																			13
44	1	34																			14
48	1	30																			15
52	1	19																			16
56	1	49																			17
60	1	27																			18
64	1	18																			19
68	1	22																			20
72	1	26																			21
76	1	25																			22
80	1	31																			23
84	1	28																			24
88	2	28																			25
92	1	24																			26
96	1	20																			27
100	1	34																			28
104	1	90																			29
108	1	96																			30
116	2	21																			31
120	1	29																			32
124	1	19																			33
128	1	56																			34
132	1	36																			35
136	1	28																			36
16S 140	1	87																			37
																					38
																					39
																					40

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Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

17

SAMPLE No.	Mo	Cu																		
16S 144	1	43																		1
148	2	80																		2
152	1	59																		3
160	1	18																		4
164	1	33																		5
16S 168	1	33																		6
17S 0	1	19																		7
56	1	116																		8
84	2	11																		9
88	1	135																		10
92	1	26																		11
96	1	29																		12
100	1	29																		13
104	1	21																		14
108	1	20																		15
108A	1	29																		16
112	1	24																		17
116	1	21																		18
120	1	22																		19
124	1	103																		20
128	2	68																		21
132	1	13																		22
136	1	50																		23
148	1	27																		24
152	1	31																		25
160	1	73																		26
164	1	26																		27
168	2	22																		28
172	1	73																		29
176	1	23																		30
184	1	23																		31
188	1	49																		32
192	1	38																		33
196	1	41																		34
200	1	42																		35
204	1	39																		36
208	1	38																		37
17S 212	1	31																		38
																				39
																				40

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CHIEF CHEMIST  
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Type of Samples

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

18

SAMPLE No.	Mo	Cu																			
17S 216	1	39																			1
220	1	31																			2
224	1	44																			3
228	1	50																			4
232	1	51																			5
236	1	42																			6
240	1	54																			7
244	1	85																			8
17S 248	1	33																			9
																					10
18S 0	1	37																			11
4	1	28																			12
8	2	68																			13
12	1	45																			14
16	1	39																			15
20	1	34																			16
24	1	41																			17
28	1	17																			18
32	1	71																			19
36	1	32																			20
40	1	35																			21
48	1	35																			22
52	1	50																			23
56	1	46																			24
60	1	56																			25
68	1	47																			26
72	1	25																			27
76	1	20																			28
80	2	70																			29
92	1	31																			30
96	1	23																			31
104	1	43																			32
108	1	39																			33
116	1	26																			34
120	1	20																			35
120A	1	22																			36
124	1	49																			37
18S 128	1	29																			38
																					39
																					40

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CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



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GEOCHEMICAL ASSAY CERTIFICATE

19	SAMPLE No.	Mo	Cu																		
	18S 132	1	20																		1
	136	1	24																		2
	140	1	7																		3
	144	1	111																		4
	148	1	64																		5
	152	1	139																		6
	156	1	75																		7
	160	1	121																		8
	164	1	53																		9
	168	1	25																		10
	172	1	22																		11
	176	1	33																		12
	180	1	27																		13
	18S 188	1	29																		14
																					15
	19S 80	1	17																		16
	84	1	55																		17
	88	1	25																		18
	96	1	31																		19
	100	1	9																		20
	104	1	19																		21
	108	1	116																		22
	112	1	24																		23
	116	1	27																		24
	120	1	25																		25
	124	1	57																		26
	128	1	164																		27
	132	1	144																		28
	136	1	123																		29
	140	2	52																		30
	144	1	29																		31
	148	1	125																		32
	152	1	42																		33
	156	1	46																		34
	160	1	45																		35
	164	1	33																		36
	168	1	50																		37
	19S 172	1	58																		38
																					39
																					40

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File No. 81-0453

Type of Samples

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GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu													
19S 176	1	106													1
180	1	82													2
184	1	80													3
188	1	24													4
192	1	26													5
196	1	44													6
200	1	32													7
204	1	27													8
208	1	50													9
212	1	59													10
216	1	22													11
220	1	86													12
224	1	94													13
228	1	36													14
232	1	35													15
236	1	27													16
240	1	19													17
244	1	27													18
19S 248	1	23													19
20S 0	1	118													20
4	1	176													21
16	1	28													22
20	1	24													23
24	2	18													24
28	1	23													25
32	1	30													26
36	1	22													27
40	1	25													28
44	1	28													29
48	1	13													30
52	2	20													31
56	1	31													32
64	1	23													33
68	1	52													34
72	1	41													35
20S 76	1	34													36
															37
															38
															39
															40

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Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

21

SAMPLE No.		Mo	Cu																		
20S	80	1	52																		1
	84	1	20																		2
	88	1	28																		3
	92	2	18																		4
	96	1	7																		5
	100	1	42																		6
	104	1	26																		7
	108	1	10																		8
	112	1	44																		9
	116	1	49																		10
	120	1	27																		11
	124	1	35																		12
	132	1	23																		13
	136	1	27																		14
	140	1	23																		15
	152	1	31																		16
	156	1	17																		17
20S	160	1	27																		18
																					19
																					20
																					21
																					22
																					23
																					24
																					25
																					26
																					27
																					28
																					29
																					30
																					31
																					32
																					33
																					34
																					35
																					36
																					37
																					38
																					39
																					40

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81-0312

File No. \_\_\_\_\_

Type of Samples Soils

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

1	SAMPLE No.	Mo	Cu																		
	ON 120 E	1	16																		1
	132	1	9																		2
	136	1	16																		3
	140	1	36																		4
	144	1	11																		5
	152	1	17																		6
	160	1	17																		7
	188	1	27																		8
	200	1	90																		9
	204	1	39																		10
	220	1	25																		11
	228	1	14																		12
	232	1	15																		13
	236	1	56																		14
	240	1	28																		15
	ON 248 E	1	37																		16
																					17
	1N 20 E	1	112																		18
	24	1	42																		19
	84	1	13																		20
	96	1	41																		21
	104	2	18																		22
	108	1	17																		23
	112	1	70																		24
	116	1	10																		25
	120	1	29																		26
	124	1	13																		27
	128	1	23																		28
	132	1	26																		29
	136	1	25																		30
	140	1	19																		31
	144	1	11																		32
	148	1	38																		33
	156	1	55																		34
	160	1	47																		35
	164	1	22																		36
	168	1	26																		37
	1N 172 E	2	19																		38
																					39
																					40

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File No. 81-0312

Type of Samples

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu																			
1N 180 E	1	34																			1
188	1	27																			2
192	1	43																			3
196	1	14																			4
200	1	34																			5
212	1	13																			6
216	1	17																			7
232	1	26																			8
236	1	43																			9
240	1	26																			10
244	1	33																			11
1N 248 E	1	33																			12
																					13
2N 4 E	1	82																			14
12	1	20																			15
16	1	44																			16
20	1	33																			17
24	1	23																			18
32	1	32																			19
36	1	126																			20
40	1	52																			21
56	1	10																			22
68	1	10																			23
92	1	20																			24
96	1	36																			25
104	1	19																			26
116	1	17																			27
124	1	30																			28
128	1	18																			29
132	1	40																			30
136	1	19																			31
148	1	11																			32
152	1	41																			33
160	1	14																			34
164	1	60																			35
168	1	64																			36
176	1	19																			37
2N 180 E	1	10																			38
																					39
																					40

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File No. 81-0312

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

5

SAMPLE No.	Mo	Cu																			
4N 180 E	1	44																			1
184	1	22																			2
188	2	35																			3
192	1	62																			4
196	1	22																			5
200	1	48																			6
204	1	62																			7
208	1	11																			8
212	1	35																			9
216	1	16																			10
220	2	38																			11
224	2	24																			12
228	1	48																			13
232	1	38																			14
236	1	17																			15
240	2	30																			16
244	1	36																			17
4N 248 E	1	25																			18
																					19
5N 40 E	2	48																			20
44	2	84																			21
60	1	54																			22
64	1	38																			23
76	1	52																			24
80	1	72																			25
92	1	40																			26
100	1	36																			27
104	1	42																			28
120	1	25																			29
124	1	34																			30
128	1	43																			31
132	1	24																			32
144	1	92																			33
148	1	106																			34
152	1	20																			35
156	1	27																			36
160	1	15																			37
5N 172 E	1	16																			38
																					39
																					40

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Type of Samples

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

6	SAMPLE No.	Mo	Cu												
	5N 176 E	1	29												1
	180	1	54												2
	184	1	68												3
	188	1	36												4
	196	1	42												5
	200	1	28												6
	204	1	60												7
	208	1	48												8
	212	1	18												9
	228	1	36												10
	232	1	31												11
	236	1	29												12
	244	1	26												13
	5N 248 E	1	28												14
															15
	6N 68 E	1	35												16
	72	1	54												17
	76	1	70												18
	80	1	40												19
	100	1	35												20
	116	1	34												21
	120	1	48												22
	124	1	48												23
	132	1	34												24
	136	1	35												25
	140	1	68												26
	144	1	43												27
	148	1	58												28
	152	1	32												29
	156	1	25												30
	164	1	24												31
	168	1	19												32
	172	1	25												33
	176	1	43												34
	180	1	35												35
	184	1	36												36
	188	1	45												37
	6N 192 E	1	38												38
															39
															40

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File No. \_\_\_\_\_

Type of Samples \_\_\_\_\_

Disposition \_\_\_\_\_

### GEOCHEMICAL ASSAY CERTIFICATE

7

SAMPLE No.	Mo	Cu																			
6N 196 E	3	58																			1
200	3	72																			2
204	2	52																			3
208	2	44																			4
212	1	25																			5
216	2	54																			6
220	3	73																			7
224	1	80																			8
228	1	36																			9
232	2	115																			10
236	2	120																			11
240	1	42																			12
244	1	28																			13
6N 248 E	1	27																			14
7N 68 E	3	192																			15
72	2	42																			16
76	1	27																			17
88	2	28																			18
92	1	44																			19
96	2	18																			20
100	1	58																			21
104	1	78																			22
108	2	66																			23
112	2	35																			24
116	3	60																			25
120	2	45																			26
132	3	70																			27
136	1	35																			28
140	1	42																			29
152	1	24																			30
156	1	68																			31
160	1	48																			32
164	1	25																			33
168	1	32																			34
172	1	38																			35
184	1	48																			36
7N 192 E	1	46																			37
																					38
																					39
																					40

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File No. -----

Type of Samples -----

Disposition -----

### GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.		Mo	Cu										
8N	192 E	1	44										1
	196	1	68										2
	200	2	28										3
	204	2	39										4
	208	4	21										5
	212	1	52										6
	216	1	22										7
	220	1	33										8
	224	1	35										9
	228	1	40										10
	232	1	39										11
	236	1	28										12
	240	3	44										13
	244	1	24							P			14
8N	248 E	1	24										15
													16
9N	108 E	1	21										17
	112	1	38										18
	120	1	36										19
	124	1	45										20
	128	1	32										21
	132	1	52										22
	136	1	26										23
	140	1	24										24
	144	1	28										25
	152	1	22										26
	156	1	43										27
	160	1	26										28
	164	1	24										29
	168	1	52										30
	172	1	28										31
	176	2	54										32
	180	2	35										33
	184	1	20										34
	196	1	35										35
	200	1	62										36
	204	1	74										37
9N	208 E	1	48										38
													39
													40

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CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Trans Arctic Exploration,

File No. 81-0312

Type of Samples

Disposition

**GEOCHEMICAL ASSAY CERTIFICATE**

10

SAMPLE No.	Mo	Cu										
9N 212 E	1	43										1
216	1	32										2
220	1	48										3
224	1	33										4
228	1	28										5
232	1	29										6
236	1	32										7
240	1	28										8
244	1	94										9
9N 248 E	1	36										10
10N 108 E	2	58										11
112	1	85										12
116	1	54										13
120	3	42										14
124	2	45										15
128	1	43										16
136	1	25										17
140	1	56										18
144	1	34										19
148	1	48										20
152	1	72										21
156	1	74										22
160	1	30										23
164	1	37										24
168	1	38										25
172	1	30										26
176	2	41										27
180	1	30										28
184	2	28										29
188	1	29										30
192	1	35										31
196	2	48										32
200	1	30										33
204	1	24										34
208	1	29										35
212	1	42							P			36
10N 216 E	1	48										37
												38
												39
												40

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*ATO*

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CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



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File No. 81-0312

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

11

SAMPLE No.	Mo	Cu																		
10N 220 E	1	32																		1
224	1	35																		2
228	1	42																		3
232	1	39																		4
240	1	21																		5
244	1	20																		6
10N 248 E	1	41																		7
																				8
11N 12 E	1	68																		9
16	1	38																		10
36	1	60																		11
64	1	45																		12
68	1	52																		13
72	1	39																		14
76	1	53																		15
80	1	132																		16
84	1	31																		17
88	1	34																		18
92	1	33																		19
96	1	45																		20
100	2	61																		21
104	1	59																		22
108	1	56																		23
112	1	35																		24
116	1	50																		25
120	1	56																		26
124	1	34																		27
128	1	21																		28
132	2	30																		29
136	1	42																		30
144	1	25																		31
11N 152 E	1	35																		32
																				33
12N 24 E	2	15																		34
48	2	56																		35
60	1	38																		36
76	1	82																		37
80	1	64																		38
12N 84 E	1	34																		39
																				40

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### GEOCHEMICAL ASSAY CERTIFICATE

12

SAMPLE No.		Mo	Cu										
12N	88 E	1	58									P	1
	92	1	40										2
	96	2	22										3
	100	2	74										4
	104	1	48										5
	108	1	20										6
	112	1	54										7
	116	1	40										8
	120	1	32										9
	124	1	48										10
	136	3	82										11
	140	1	20										12
	144	1	19										13
	152	1	30										14
	156	1	35										15
	164	1	54										16
	172	2	28										17
	176	1	20										18
12N	180 E	1	21										19
													20
12N	184 E	1	35										21
	188	1	34										22
	192	1	46										23
	196	1	54										24
	200	1	24										25
	204	1	30										26
	208	1	60										27
	212	1	28										28
	216	1	52										29
	220	1	48										30
	224	1	35									P	31
	228	3	80										32
	232	2	48										33
	236	1	42										34
	240	1	60										35
	244	1	50									P	36
12N	248 E	1	28										37
													38
													39
													40

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### GEOCHEMICAL ASSAY CERTIFICATE

13

SAMPLE No.	Mo	Cu											
13N 0 E	2	50											1
4	1	78											2
8	1	48									P		3
12	1	30									P		4
16	1	68									P		5
20	1	58											6
24	1	36											7
60	1	24											8
64	1	46											9
68	1	48											10
72	1	32									p		11
76	1	52									P		12
80	1	48											13
84	1	22											14
88	1	94											15
92	1	75											16
96	1	65											17
100	1	205											18
104	1	60											19
108	1	42											20
112	1	40									P		21
124	1	30											22
13N 128 E	1	36											23
													24
13N 136 E	1	31											25
144	1	25											26
148	2	24											27
152	1	62											28
180	1	44											29
184	1	24											30
188	2	46											31
192	1	80											32
196	1	72											33
200	1	80											34
204	1	44											35
208	1	26											36
212	1	76									P		37
13N 216 E	1	58									P		38
													39
													40

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### GEOCHEMICAL ASSAY CERTIFICATE

14

SAMPLE No.	Mo	Cu																			
13N 220 E	1	24																			1
224	2	82																			2
228	2	234																			3
232	2	46																			4
236	1	30																			5
240	2	54																			6
244	1	14																			7
13N 248 E	1	78																			8
																					9
14N 28 E	1	96																			10
32	1	50																			11
40	2	32																			12
44	1	34																			13
48	2	54																			14
56	2	15																			15
68	1	36																			16
72	1	15																			17
76	1	76																			18
80	2	34																			19
84	1	28																			20
88	1	23																			21
92	1	20																			22
96	1	21																			23
100	1	35																			24
104	2	105																			25
108	1	50																			26
112	1	46																			27
116	1	48																			28
120	1	32																			29
124	1	30																			30
128	1	60																			31
132	2	26																			32
136	2	54																			33
140	1	66																			34
144	1	32																			35
148	2	19																			36
152	1	38																			37
14N 156 E	2	34																			38
																					39
																					40

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### GEOCHEMICAL ASSAY CERTIFICATE

15

SAMPLE No.	Mo	Cu													
14N 160 E	1	16													1
160A	1	50													2
164	1	40													3
164A	1	22													4
168	2	26											P		5
168A	1	42													6
172	1	22													7
176	1	56													8
176A	1	64													9
180	1	20													10
184	1	82													11
188	1	36													12
192	2	31													13
196	1	24													14
200	1	58											P		15
204	1	36											P		16
208	1	25													17
212	1	38													18
216	1	88													19
220	1	19													20
224	1	72													21
228	2	35													22
232	1	65													23
236	2	240													24
240	2	26													25
244	1	25													26
14N 248 E	1	60													27
15N 0 E	1	15													28
4	1	18													29
8	1	14													30
12	1	30													31
16	1	28											P		32
20	1	23													33
24	1	16													34
28	2	28											P		35
32	2	65													36
15N 36 E	1	24													37
															38
															39
															40

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File No. \_\_\_\_\_

Type of Samples \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

Disposition \_\_\_\_\_

16

SAMPLE No.		Mo	Cu								
15N	40 E	1	74								1
	44	2	36								2
	48	1	25								3
	52	1	50								4
	56	1	22								5
	60	1	25								6
	64	1	23							P	7
	68	1	93								8
	72	1	24								9
	76	1	46								10
	80	1	34								11
	84	1	35								12
	88	1	126								13
	92	1	58								14
	96	1	56								15
	100	1	45								16
	104	1	26								17
	108	1	32								18
	112	2	38								19
	116	1	24								20
	120	1	128								21
	124	1	62								22
15N	128 E	1	70								23
											24
15N	132 E	1	28								25
	136	1	49								26
	140	1	46								27
	144	1	32								28
	148	1	72								29
	152	1	26								30
	156	1	23								31
	160	1	36								32
	164	1	45								33
	168	1	88								34
	172	1	54							P	35
	176	1	56								36
	180	1	33								37
15N	184 E	1	58								38
											39
											40

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Disposition

**GEOCHEMICAL ASSAY CERTIFICATE**

17

SAMPLE No.	Mo	Cu											
15N 188 E	1	46											1
192	1	20											2
196	3	106							P				3
200	1	52											4
204	1	35											5
208	1	26											6
212	1	25											7
216	1	70											8
220	1	40											9
224	1	31											10
228	1	30											11
232	1	41											12
236	1	29											13
240	1	80							P				14
244	1	58											15
15N 248 E	1	49							P				16
													17
16N 0 E	N.S.												18
4	1	16											19
8	1	22											20
12	1	15											21
16	1	14											22
20	N.S.												23
24	2	15											24
28	1	15											25
32	1	23											26
36	1	29											27
40	1	26							P				28
44	1	30											29
48	1	30											30
52	1	25											31
56	2	30											32
60	1	22											33
64	1	62											34
68	1	27											35
72	1	26											36
76	1	18											37
16N 80 E	1	37											38
													39
													40

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Disposition

GEOCHEMICAL ASSAY CERTIFICATE

18

SAMPLE No.	Mo	Cu																	
16N 84 E	1	46																	1
88	N.S.																		2
92	1	21																	3
96	1	36																	4
100	1	38																	5
104	1	24																	6
108	1	15																	7
112	1	24																	8
116	1	54																	9
120	1	31																	10
124	1	34																	11
128	1	42																	12
132	1	31																	13
136	1	32																	14
140	1	42																	15
144	1	33																	16
148	1	26																	17
152	1	39																	18
156	1	66																	19
160	1	41																	20
164	1	70																	21
168	1	35																	22
172	2	29																	23
176	2	33																	24
180	3	106																	25
184	1	23																	26
188	2	32																	27
192	1	26																	28
196	1	36																	29
200	1	32																	30
204	1	36																	31
208	1	72																	32
212	1	40																	33
216	2	41																	34
220	1	26																	35
224	2	34																	36
16N 228 E	1	33																	37
																			38
																			39
																			40

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**GEOCHEMICAL ASSAY CERTIFICATE**

SAMPLE No.	Mo	Cu								
16N 232 E	1	76								1
236	2	32								2
240	1	46								3
244	1	56								4
16N 248 E	1	72								5
										6
17N 0 E	1	30								7
4	1	29								8
8	1	68						P		9
12	1	54								10
16	1	100						P		11
20	1	58								12
24	1	26								13
28	1	45								14
32	1	54								15
36	1	47								16
40	1	55								17
44	1	45								18
48	1	18								19
52	1	21								20
56	1	20								21
60	1	23								22
64	1	19								23
68	1	38								24
72	2	33								25
76	1	37								26
80	1	36								27
84	1	50								28
88	1	76								29
92	1	42								30
96	1	56								31
100	1	45								32
104	1	47								33
108	1	43								34
112	1	38								35
116	1	43								36
120	1	50								37
17N 124 E	1	66								38
										39
										40

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### GEOCHEMICAL ASSAY CERTIFICATE

20

SAMPLE No.	Mo	Cu																			
17N 128 E	1	43																			1
132	1	72																			2
136	1	64																			3
140	1	29																			4
144	1	45																			5
148	1	26																			6
152	1	54																			7
156	1	50																			8
160	1	49																			9
164	1	39																			10
168	1	46																			11
172	1	48																			12
176	1	29																			13
180	1	38																			14
184	1	84																			15
188	1	25																			16
192	1	40																			17
196	1	46																			18
200	1	94																			19
204	1	68																			20
208	1	37																			21
212	1	84																			22
216	1	42																			23
17N 220 E	1	27																			24
																					25
18N 24 E	2	27																			26
28	1	34																			27
32	2	73																			28
36	3	128																			29
40	2	37																			30
44	1	28																			31
48	1	45																			32
52	1	86																			33
56	2	30																			34
60	3	94																			35
64	1	27																			36
68	1	32																			37
18N 72 E	1	34																			38
																					39
																					40

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CERTIFIED B.C. ASSAYER

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**GEOCHEMICAL ASSAY CERTIFICATE**

21

SAMPLE No.	Mo	Cu																			
18N 76 E	1	68																			1
80	2	28																			2
84	1	76																			3
88	2	39																			4
92	1	29																			5
96	1	56																			6
100	1	47																			7
104	1	39																			8
108	2	68																			9
112	1	42																			10
116	1	48																			11
120	1	100																			12
18N 124 E	1	45																			13
18N 128 E	1	43																			14
132	1	68																			15
136	1	102																			16
140	1	45																			17
144	1	62																			18
148	1	39																			19
152	1	56																			20
156	1	40																			21
160	1	37																			22
164	1	58																			23
168	1	78																			24
172	1	45																			25
176	1	54																			26
180	1	70																			27
184	1	66																			28
188	1	39																			29
192	1	46																			30
196	1	33																			31
200	1	60																			32
204	1	46																			33
208	1	43																			34
212	1	54																			35
216	1	52																			36
18N 220 E	1	27																			37
																					38
																					39
																					40

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File No. -----

Type of Samples -----

Disposition -----

**GEOCHEMICAL ASSAY CERTIFICATE**

22

SAMPLE No.	Mo	Cu										
18N 224 E	1	88										1
228	1	42										2
232	1	39										3
236	3	40										4
240	1	48										5
244	1	23										6
18N 248 E	1	22										7
												8
19N 0 E	1	16										9
4	1	19										10
8	1	16										11
12	1	54										12
16	1	34										13
20	1	88										14
24	1	17										15
28	1	31										16
32	1	25										17
36	1	32										18
40	1	40										19
44	1	19										20
48	1	20										21
52	1	18										22
56	1	31										23
60	1	41										24
64	1	22										25
68	1	24										26
72	1	26										27
76	1	33										28
80	1	26										29
84	1	27										30
88	1	22										31
92	1	25										32
96	1	21										33
100	1	32										34
104	1	60										35
108	1	32										36
112	1	52										37
116	1	33										38
19N 120 E	1	50										39
												40

P  
P  
P

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All results are in PPM.

DIGESTION: .....

DETERMINATION: .....

DATE SAMPLES RECEIVED .....

DATE REPORTS MAILED .....

ASSAYER \_\_\_\_\_ *DL*

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Trans Arctic Exploration,

File No. 81-0312

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

23

SAMPLE No.	Mo	Cu																			
19N 124 E	1	37																			1
128	1	62																			2
132	1	28																			3
136	1	66																			4
140	1	39																			5
144	1	45																			6
148	1	38																			7
152	1	52																			8
156	1	16																			9
160	1	49																			10
164	1	54																			11
168	1	38																			12
172	1	36																			13
176	1	45																			14
180	1	35																			15
184	1	38																			16
188	1	57																			17
192	1	36																			18
196	1	78																			19
200	1	28																			20
204	1	30																			21
208	1	43																			22
19N 212 E	1	50																			23
																					24
20N 0 E	1	14																			25
4	2	13																			26
8	1	23																			27
12	1	24																			28
16	2	33																			29
20	1	20																			30
24	1	17																			31
28	2	33																			32
32	1	9																			33
36	2	13																			34
40	3	43																			35
44	1	24																			36
48	1	25																			37
20N 52 E	1	32																			38
																					39
																					40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED.....

DATE REPORTS MAILED.....

ASSAYER *STO*

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Trans Arctic Exploration,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone:253 - 3158

File No. \_\_\_\_\_

Type of Samples \_\_\_\_\_

Disposition \_\_\_\_\_

### GEOCHEMICAL ASSAY CERTIFICATE

24

SAMPLE No.	Mo	Cu											
20N 56 E	1	19											1
60	1	34											2
64	1	68											3
68	1	22								P			4
72	1	26								P			5
76	1	36											6
80	1	20											7
84	1	51								P			8
88	1	25											9
92	1	48								P			10
96	1	68								P			11
100	1	55											12
104	1	52											13
108	2	70											14
112	2	53											15
116	1	38											16
20N 120 E	2	55											17
													18
20N 124 E	1	42											19
128	1	62								P			20
132	1	74											21
136	1	38											22
140	1	124								P			23
144	1	64											24
148	1	62											25
152	1	66											26
156	2	74											27
160	1	82											28
164	1	50											29
168	1	41											30
172	2	46											31
176	1	86											32
180	1	102											33
184	1	37											34
188	1	96											35
192	1	110											36
196	1	32											37
20N 200 E	3	37											38
													39
													40

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED \_\_\_\_\_

DATE REPORTS MAILED \_\_\_\_\_

ASSAYER \_\_\_\_\_ *CKD*

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER





To: Trans Arctic Exploration,

File No. 81-0312

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

25

SAMPLE No.	Mo	Cu											
20N 204 E	1	38											1
208	1	40											2
212	1	37											3
216	1	44											4
220	1	32											5
224	1	40											6
228	1	31											7
232	4	78											8
236	2	105											9
240	1	73											10
244	1	44											11
20N 248 E	1	43											12
17N 1	1	12											13
2	1	43											14
3	1	24											15
4	1	14											16
17N 5	1	17											17
18N 0 E	2	56											18
4	1	29											19
16	1	32											20
18N 20 E	1	13											21
19N 1	1	29											22
2	1	30											23
3	1	21											24
4	1	25											25
5	1	27											26
19N 6	1	22											27
2N 108 E Rock	1	41											28
													29
													30
													31
													32
													33
													34
													35
													36
													37
													38
													39
													40

All reports are the confidential property of clients  
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED.....

DATE REPORTS MAILED.....

ASSAYER *SKO*

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER

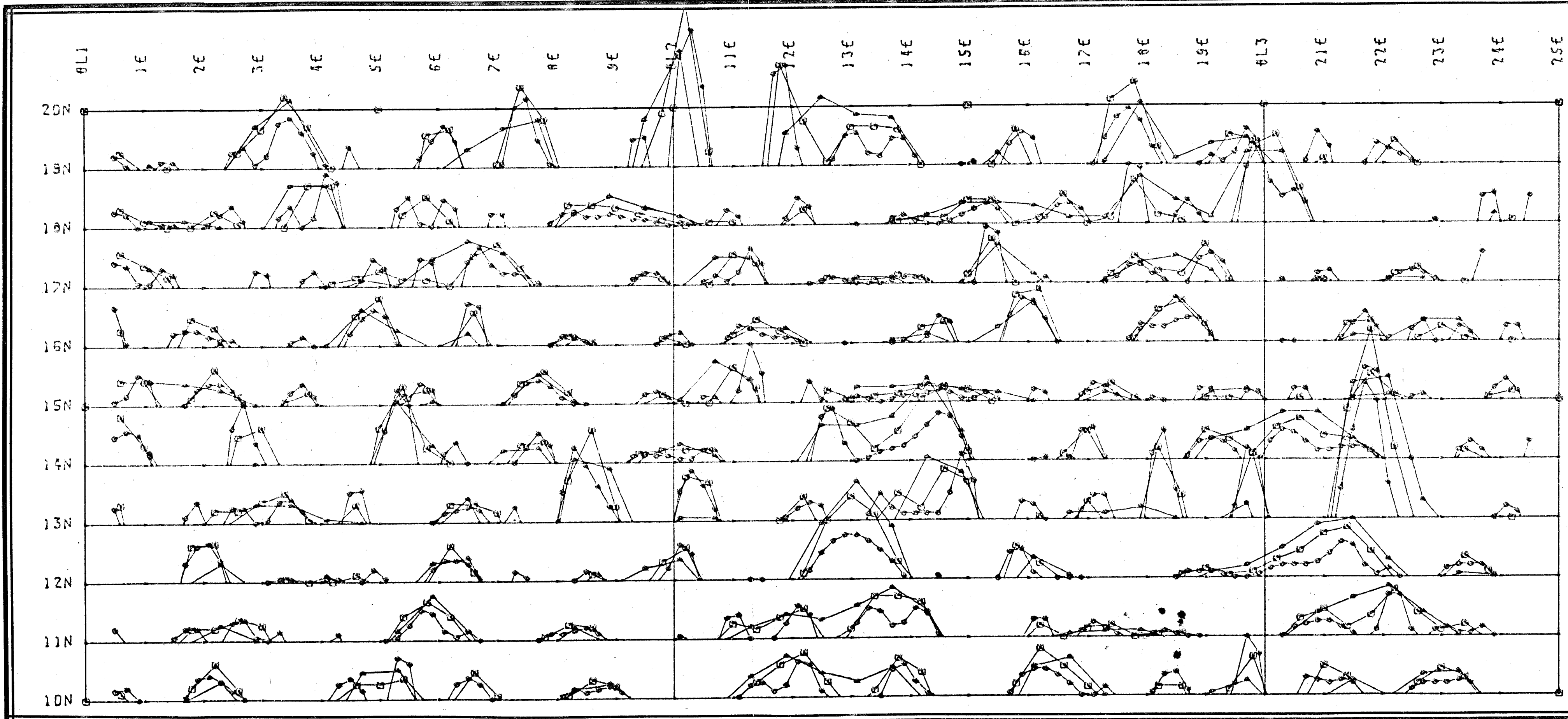
COST BREAKDOWN

KP Group (KP1 and Dave 2 Claims)

April 15 to June 15, 1981

1981 Exploration Program:

Geophysical: 100 Line Km VLF E.M. Survey, including grid @ \$150.00	\$ 15,000.00
Geochemical: 1700 soil samples @ \$5.50 including analyses @ \$2.65 cu and mo	9,350.00
Geological: geological mapping, 40 units	10,000.00
Data reduction, drafting, engineering and reports	7,000.00
	<u>7,000.00</u>
	<u>\$ 41,350.00</u>



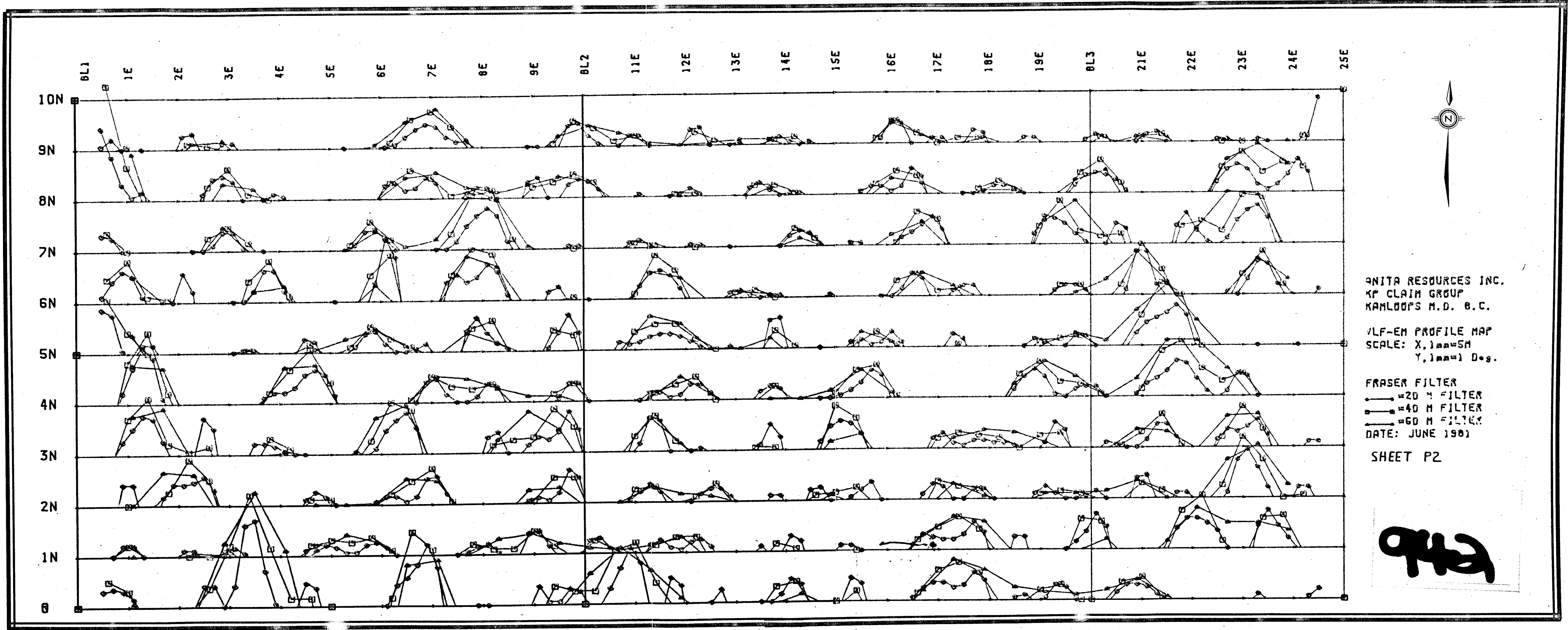
ANITA RESOURCES INC.  
 KP CLAIM GROUP  
 KAMLOOPS M.D. B.C.

VLF-EM PROFILE MAP  
 SCALE: X.1mm=5M  
 Y.1mm=1 Deg.

FRASER FILTER  
 —●— = 20 M. FILTER  
 -□- = 40 M. FILTER  
 ...△... = 60 M. FILTER  
 DATE: JUNE 1981

SHEET P1

**9426**



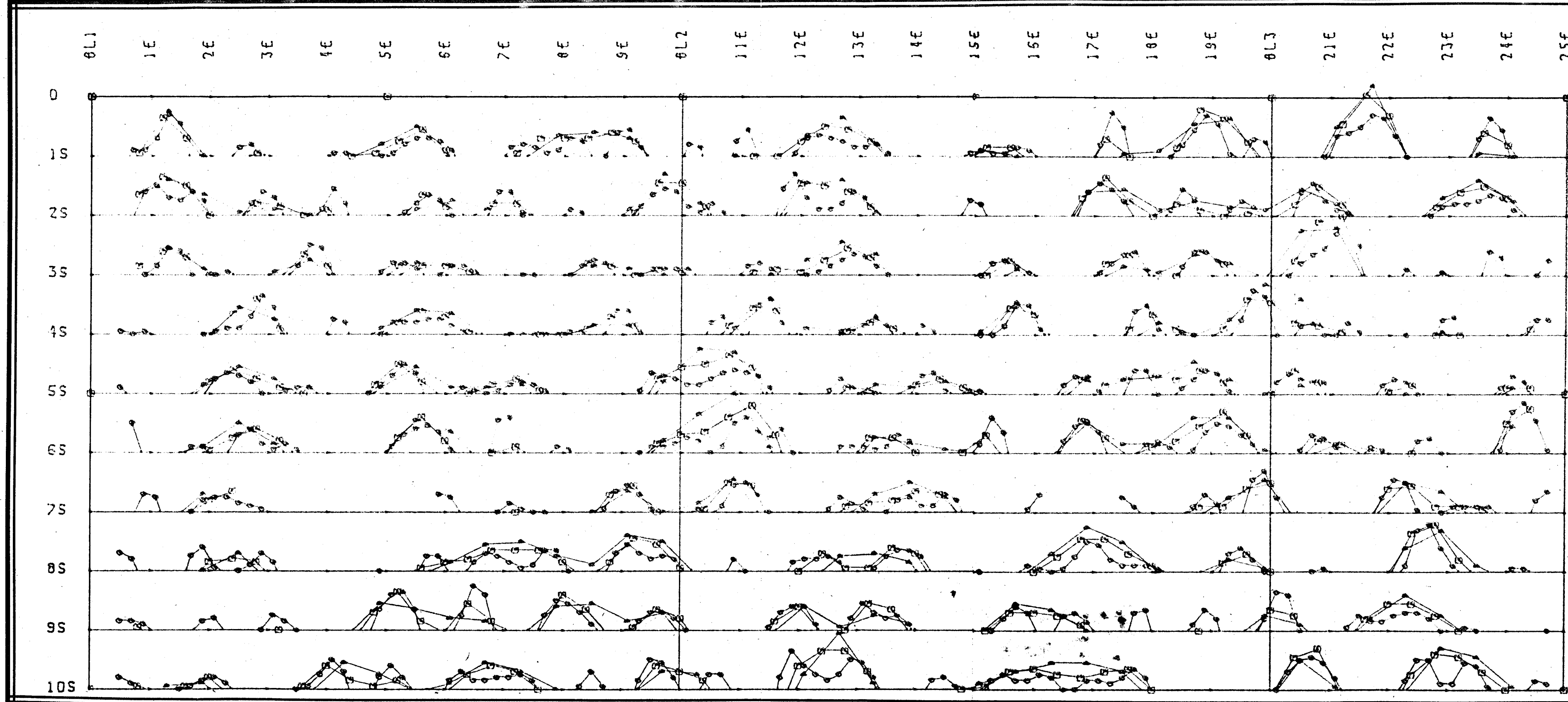
ANITA RESOURCES INC.  
 KP CLAIM GROUP  
 KAMLOOPS M.D. B.C.

VLF-EM PROFILE MAP  
 SCALE: X, 1mm=5M  
 Y, 1mm=1 Deg.

FRASER FILTER  
 — 20 M FILTER  
 — 40 M FILTER  
 — 60 M FILTER  
 DATE: JUNE 1981

SHEET P2

*[Handwritten signature]*



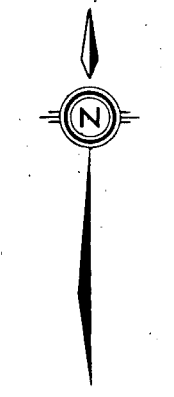
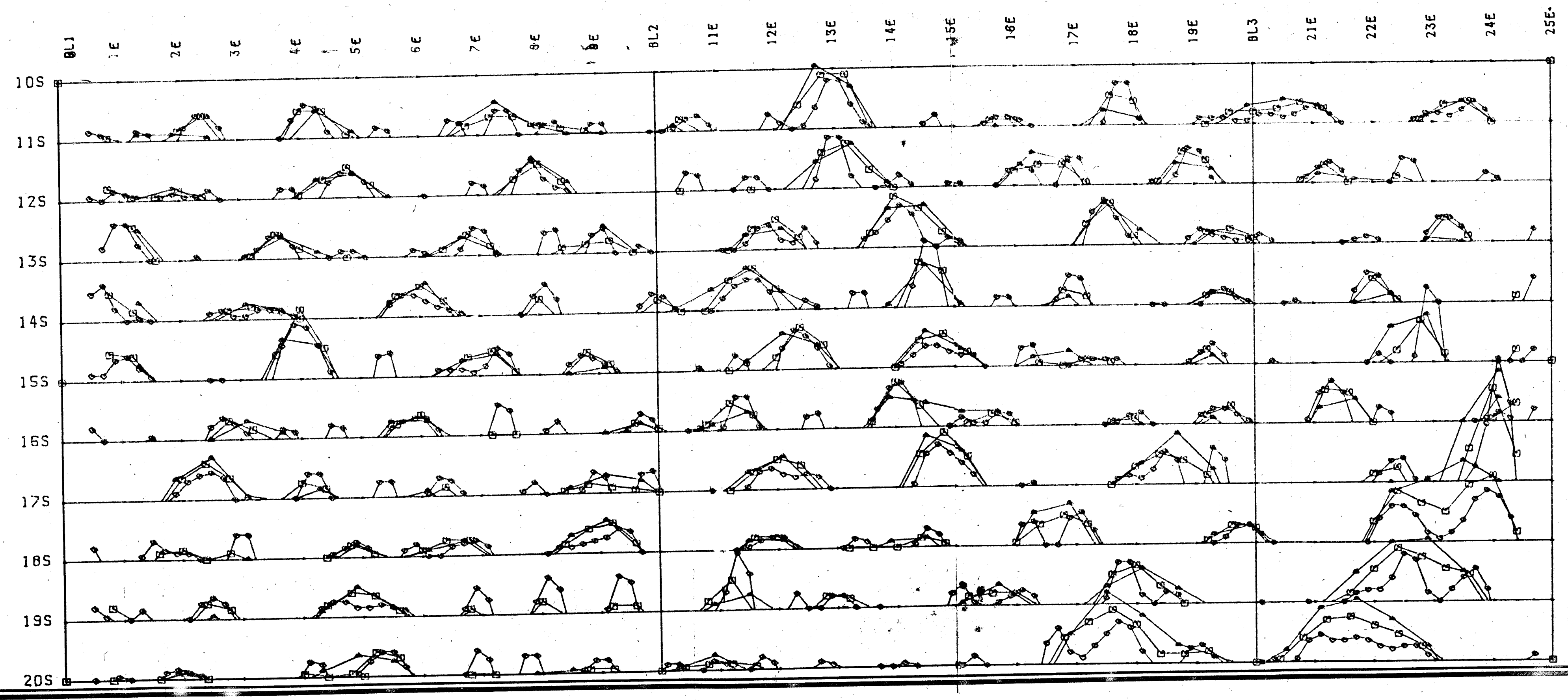
ANITA RESOURCES INC.  
 KP CLAIM GROUP  
 KAMLOOPS M.D. B.C.

VLF-EM PROFILE MAP  
 SCALE: X, 1cm=5M.  
 Y, 1cm=1 Deg.

FRASER FILTER  
 ○ = 20 M. FILTER  
 □ = 40 M. FILTER  
 △ = 60 M. FILTER  
 DATE: JUNE 1981.

SHEET P3

9426

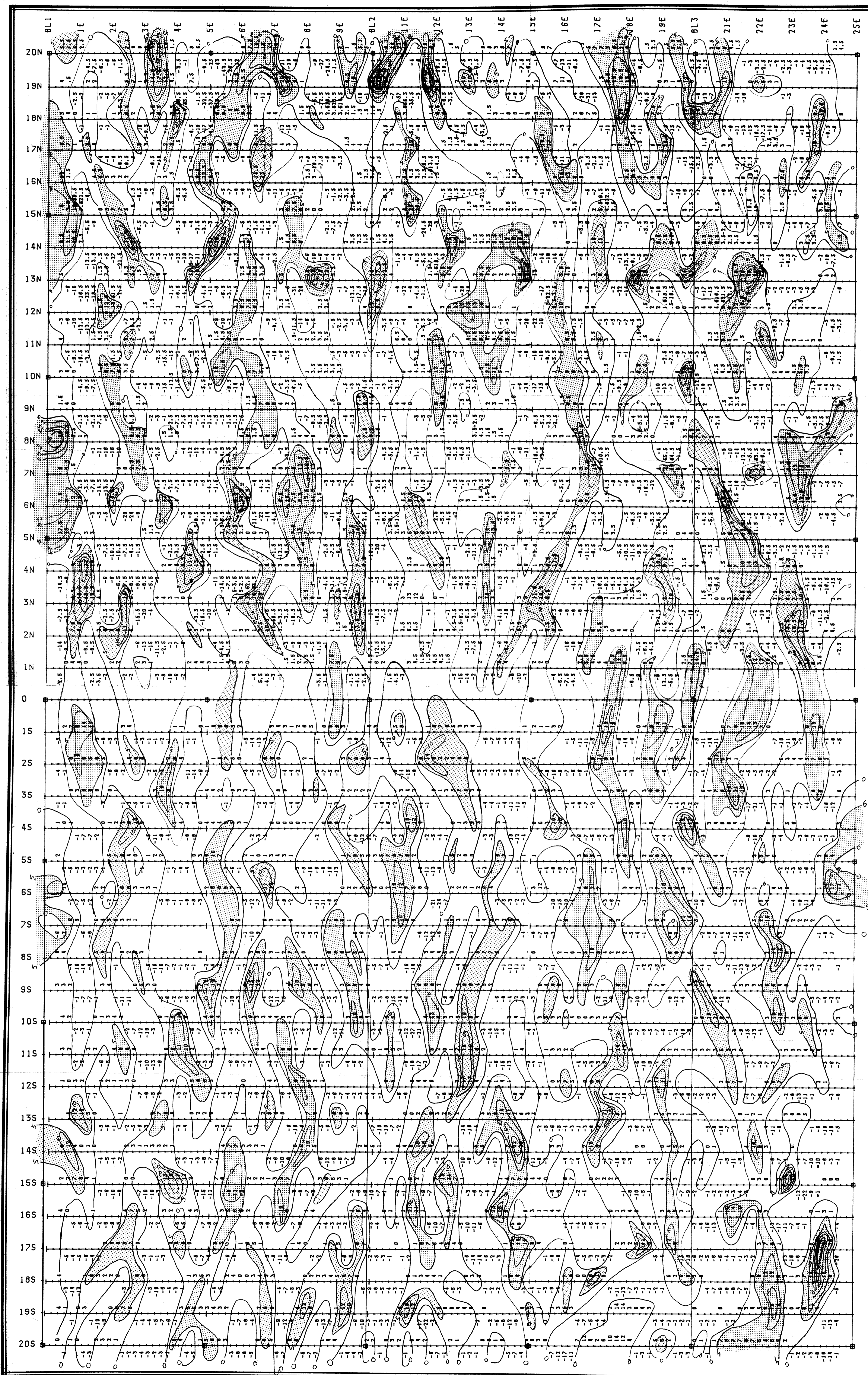


ANITA RESOURCES INC.  
 KP CLAIM GROUP  
 KAMLOOPS M.D. B.C.

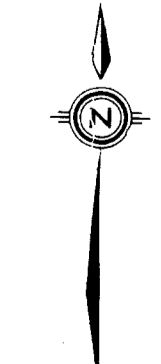
VLF-EM PROFILE MAP  
 SCALE: X, 1mm=5M  
 Y, 1mm=1 Deg.

FRASER FILTER  
 ● = 20 M. FILTER  
 ■ = 40 M. FILTER  
 ▲ = 60 M. FILTER  
 DATE: JUNE 1981  
 SHEET P4

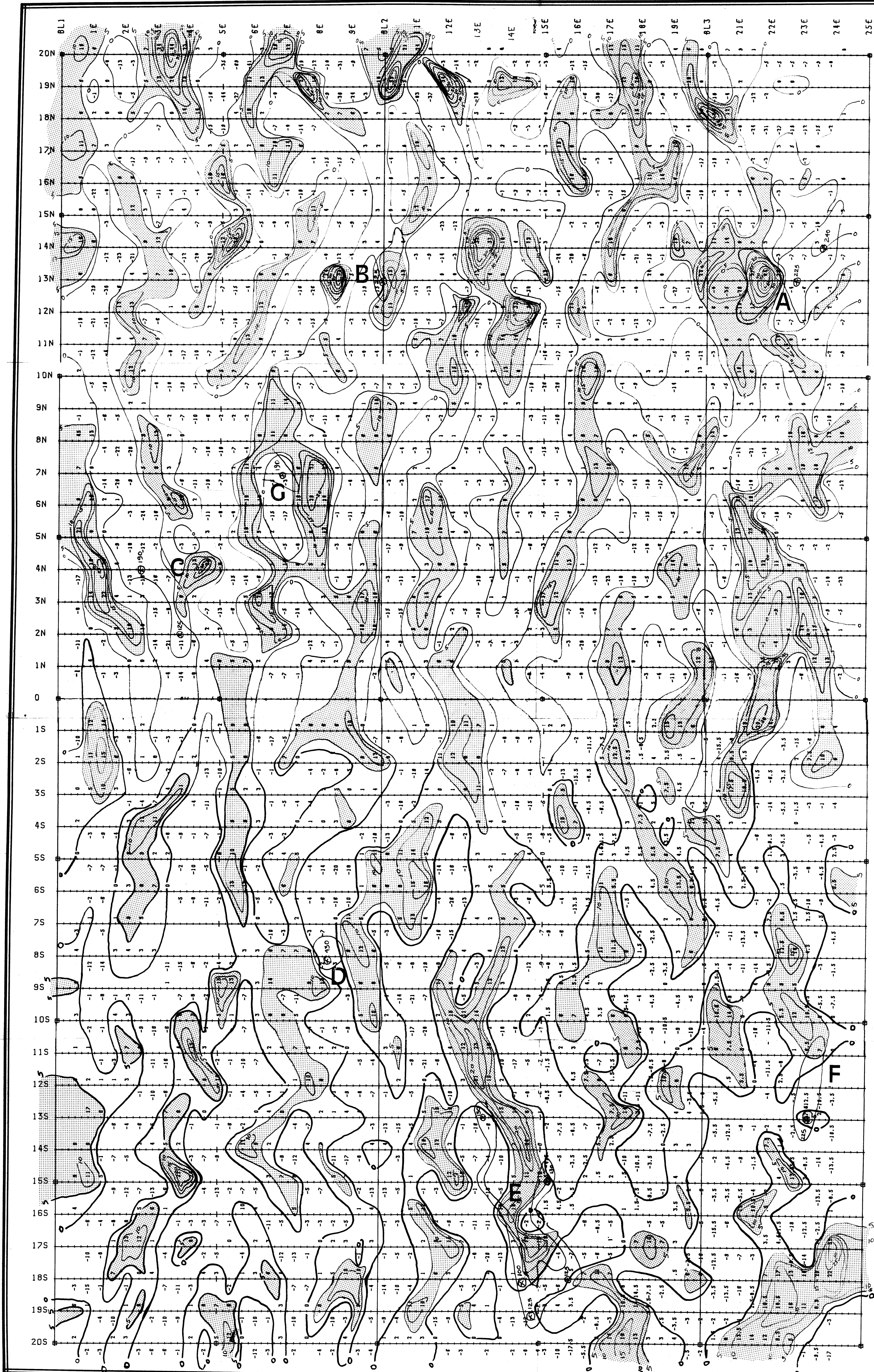
9426



9426



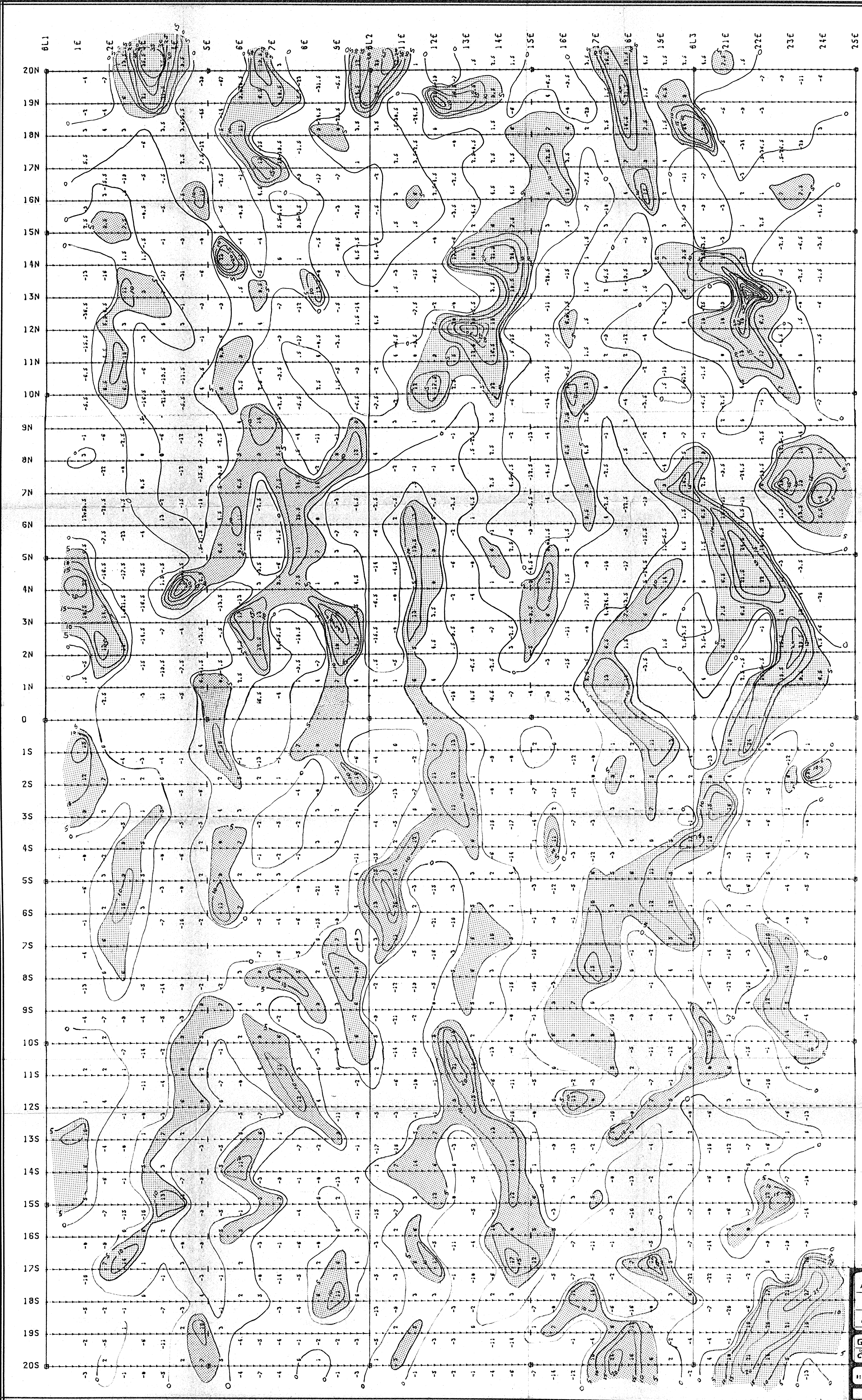
ANITA RESOURCES LTD.  
KP CLAIM GROUP  
AFTON AREA KAMLOOPS M.D.  
GEOPHYSICAL VLF-EM SURVEY  
CONTOUR ± 5 • 0.0 M. FRASER FILTER  
1:5000 TUNE 81  
COLUMBIA GEOPHYSICAL SERVICES LTD.



9426

ANITA RESOURCES LTD.  
 KP CLAIM GROUP  
 AFTON AREA, KAMLOOPS M-D  
 GEOPHYSICAL VLF-EM SURVEY  
 CONTOUR: 5% 40 M. FRASER FILTER  
 (1:2000 JUNE 81) 2' N.P.M.  
 COLUMBIA GEOPHYSICAL SERVICES LTD.

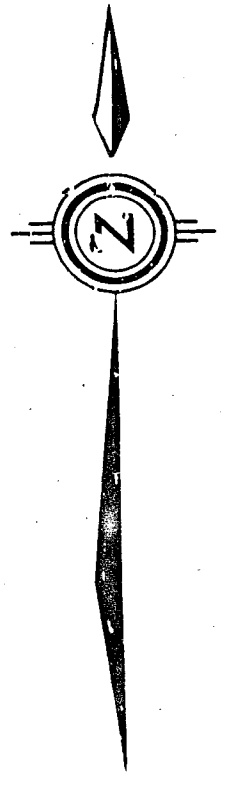
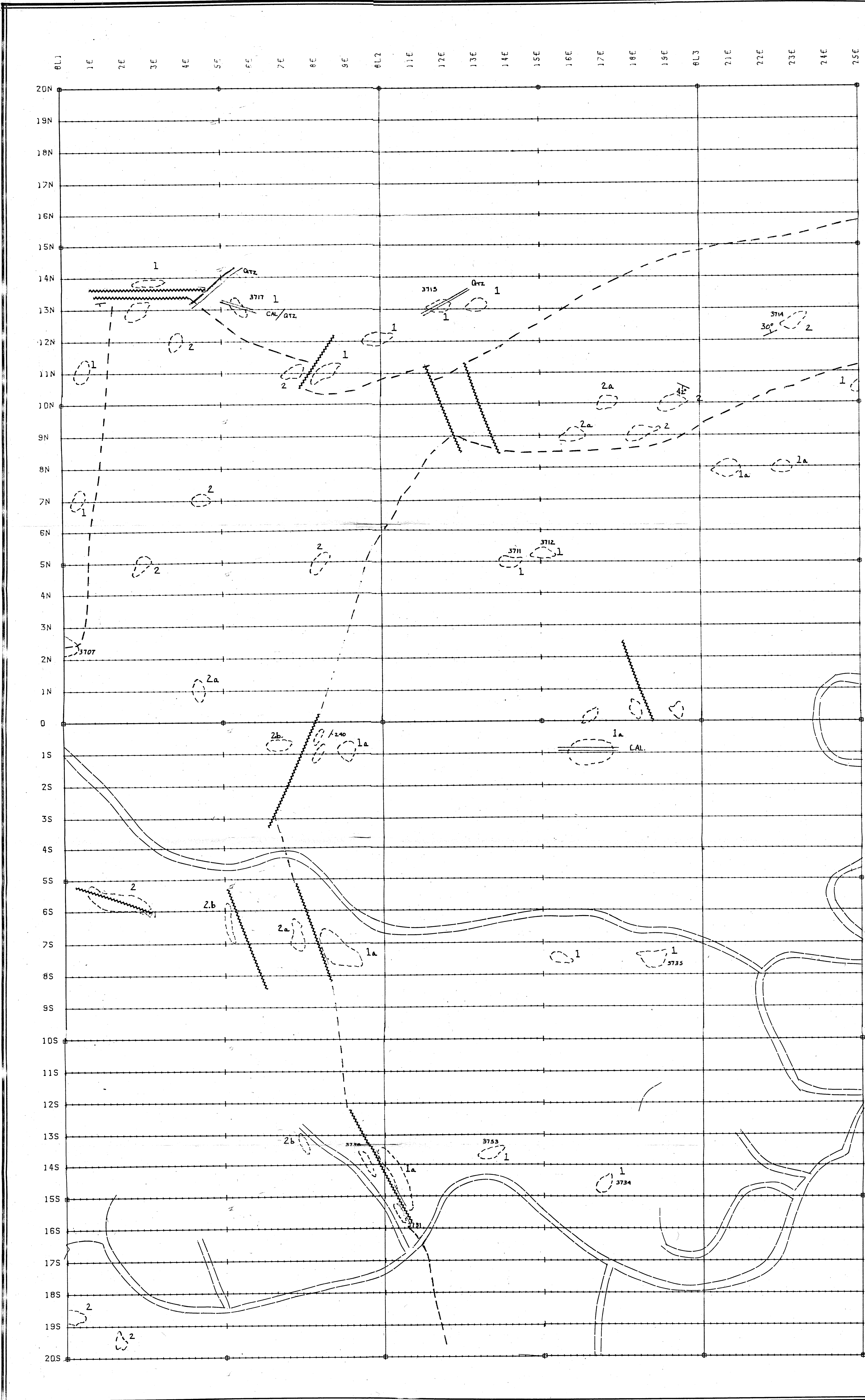




9426  
NO.



ANITA RESOURCES LTD.			
K.P. CLAIM GROUP			
AFTON AREA, KAMLOOPS M.D. B.C.			
GEOPHYSICAL VLF-EM SURVEY			
Type of survey CONTOUR = 5 <sup>o</sup> 60 METRE FRASER FILTER			
scale 1:5000	date JUNE 81	job no. 3	sheet no. 3
			drawn by M.F.M.
COLUMBIA GEOPHYSICAL SERVICES LTD.			



**LEGEND**

1. ANDESITE; (a) brecciated, (b) agglomerate  
(c) massive

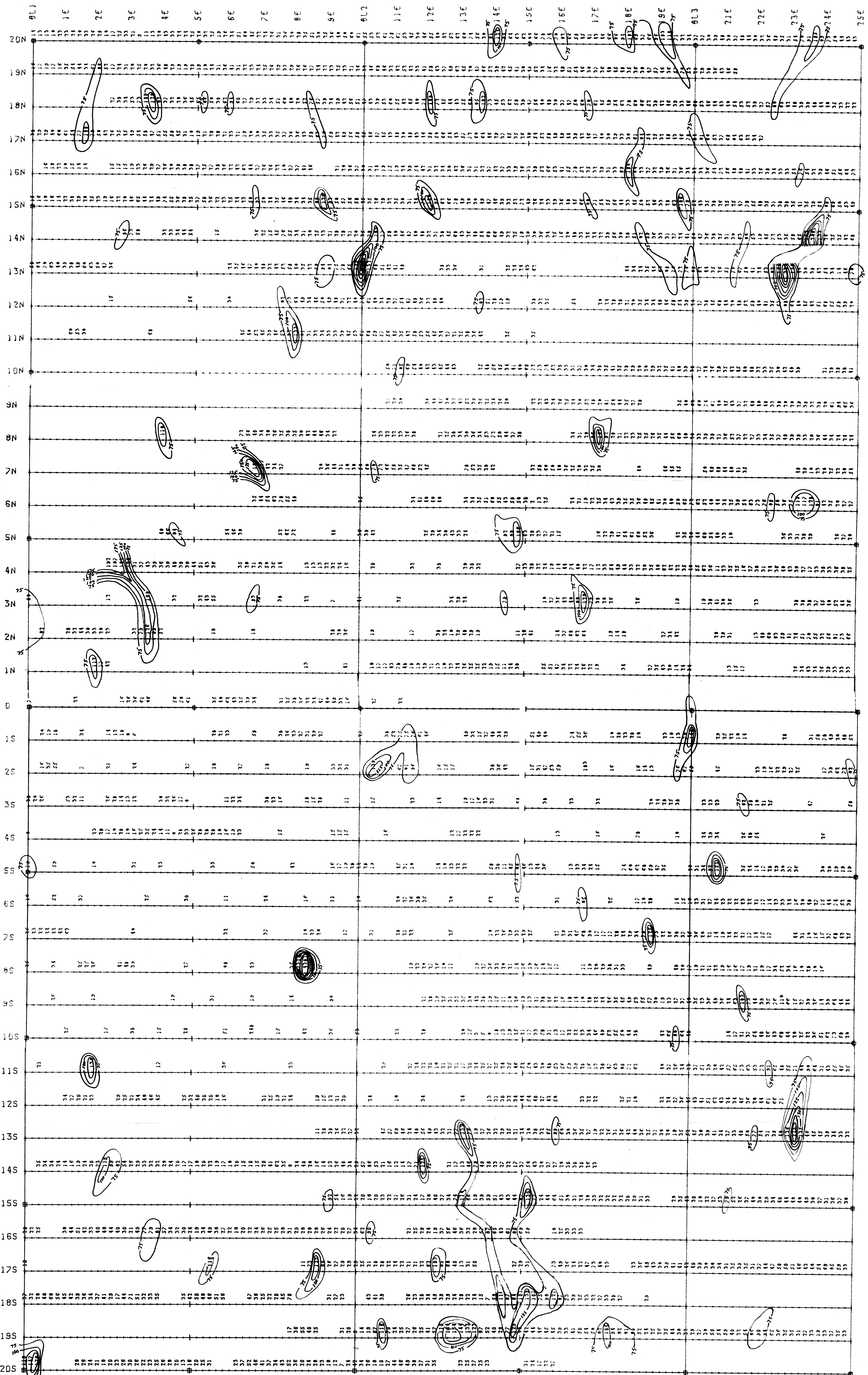
2. BASALT (a) brecciated, (b) agglomerate  
(c) massive

**STRUCTURE**

Isolation ————  
faults ————  
geological contact - - - - -

ANITA RESOURCES LTD.  
K.P. GROUP  
KAMLOOPS M.D. B.C.  
GEOLOGICAL SURVEY  
1:5000 JUNE 11 1984 D.F.N.  
COLUMBIA GEOPHYSICAL SERVICES LTD.

9426

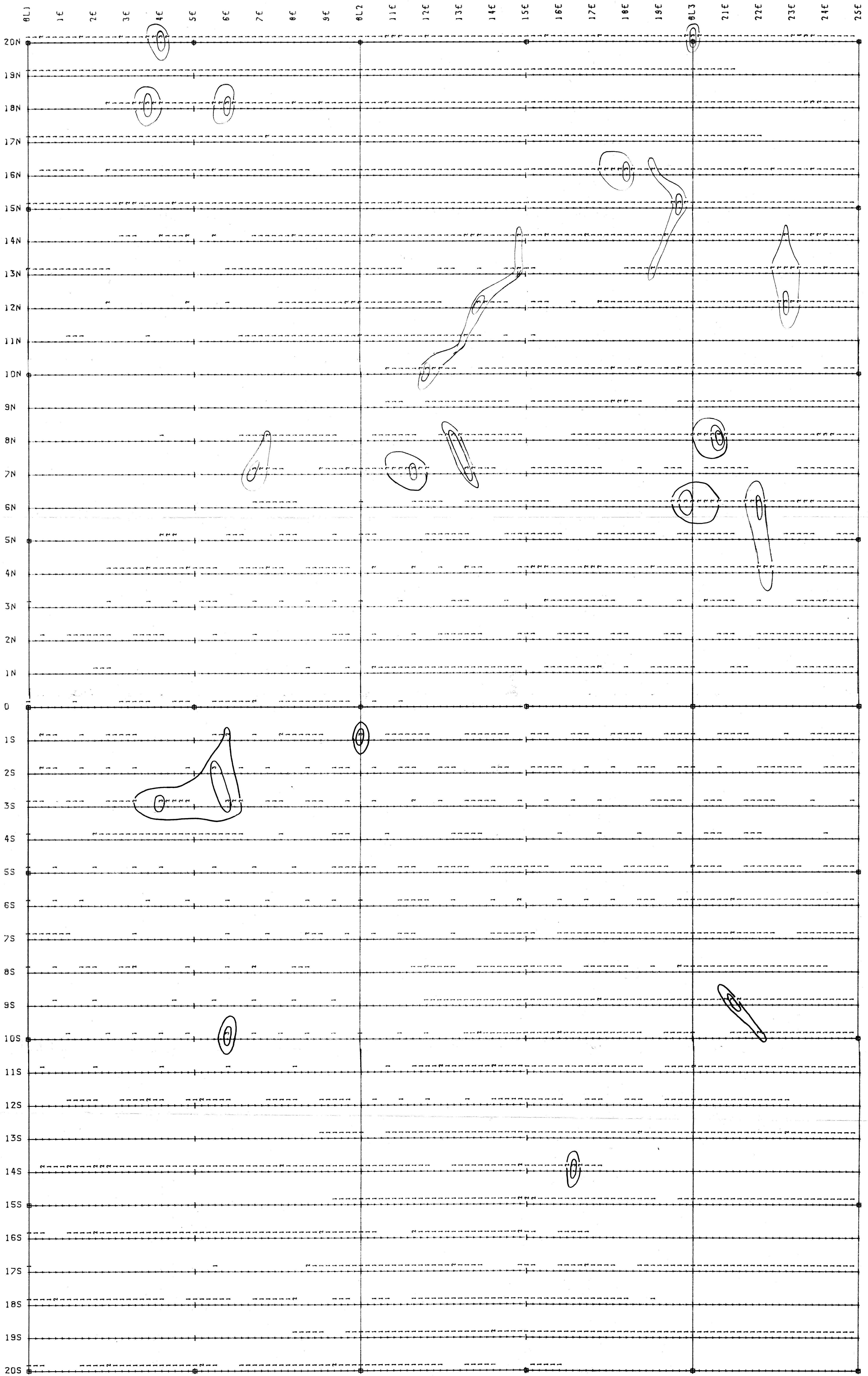


ANITA RESOURCES INC.  
 KP Claim Group  
 (DAVEZ & KP)  
 KAMLOOPS B.C.

GEOCHEMICAL SURVEY Co.  
 Scale: 1:5000 Dat.: JUNE 1981  
 SHEET NO. 5 M.F.M.

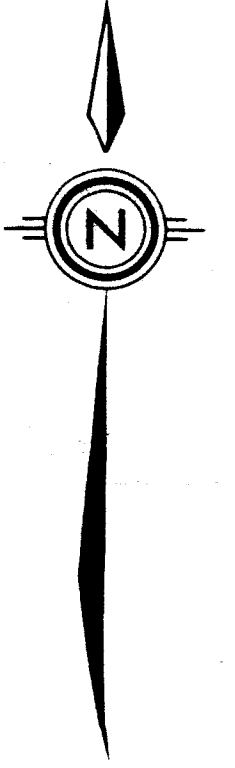


9426



ANITA RESOURCES INC.  
 KP Claim Group  
 (DAVEZ AMP1)  
 KAMLOOPS H.D. B.C.

GEOCHEMICAL SURVEY No.  
 Scale: 1:5000  
 Date: JUNE 1981  
 SHEET NO. 6 M.F.M.



100M

942