81-#322
-9496

GEOPHYSICAL REPORT

on the

APRIL CLAIM GROUP

Greenwood Mining Division
July Creek Area
Southern British Columbia
49° 03'N 118° 34'W
NTS 82E/2E

Name	Units	Record No.	Expiry Date
Florence	1	264	April 22, 1981
Jim	1	266	April 22, 1981
Tripod	1	263	April 22, 1981
Windfall	1	265	April 22, 1981
May	1	267	April 22, 1981
April 3	10	317	May 20, 1981
April 2	12	811	June 17, 1981

on behalf of

Banquest Resources Ltd.

by

G. Gutrath, P. Eng.,
Atled Exploration Management Ltd.
July 1981

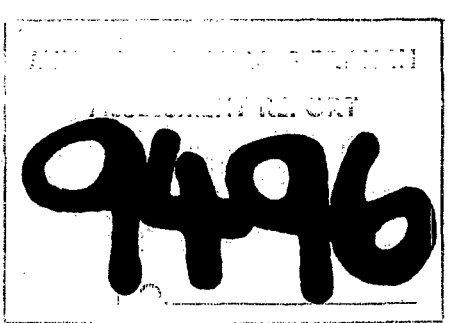


TABLE OF CONTENTS

	PAGE
INTRODUCTION	3
PERSONNEL	3
GEOGRAPHY	4
CLAIMS	5
HISTORY AND DEVELOPMENT	6
WORK COMPLETED	7
GEOLOGY	7
MAGNETOMETER SURVEY	10
CONCLUSION	11
ENGINEER'S CERTIFICATE	12

MAPS:

Location Map
Claim Map

IN POCKET:

Magnetometer readings
Magnetic contour map

Geophysical Report

on the

APRIL CLAIM GROUP

Introduction

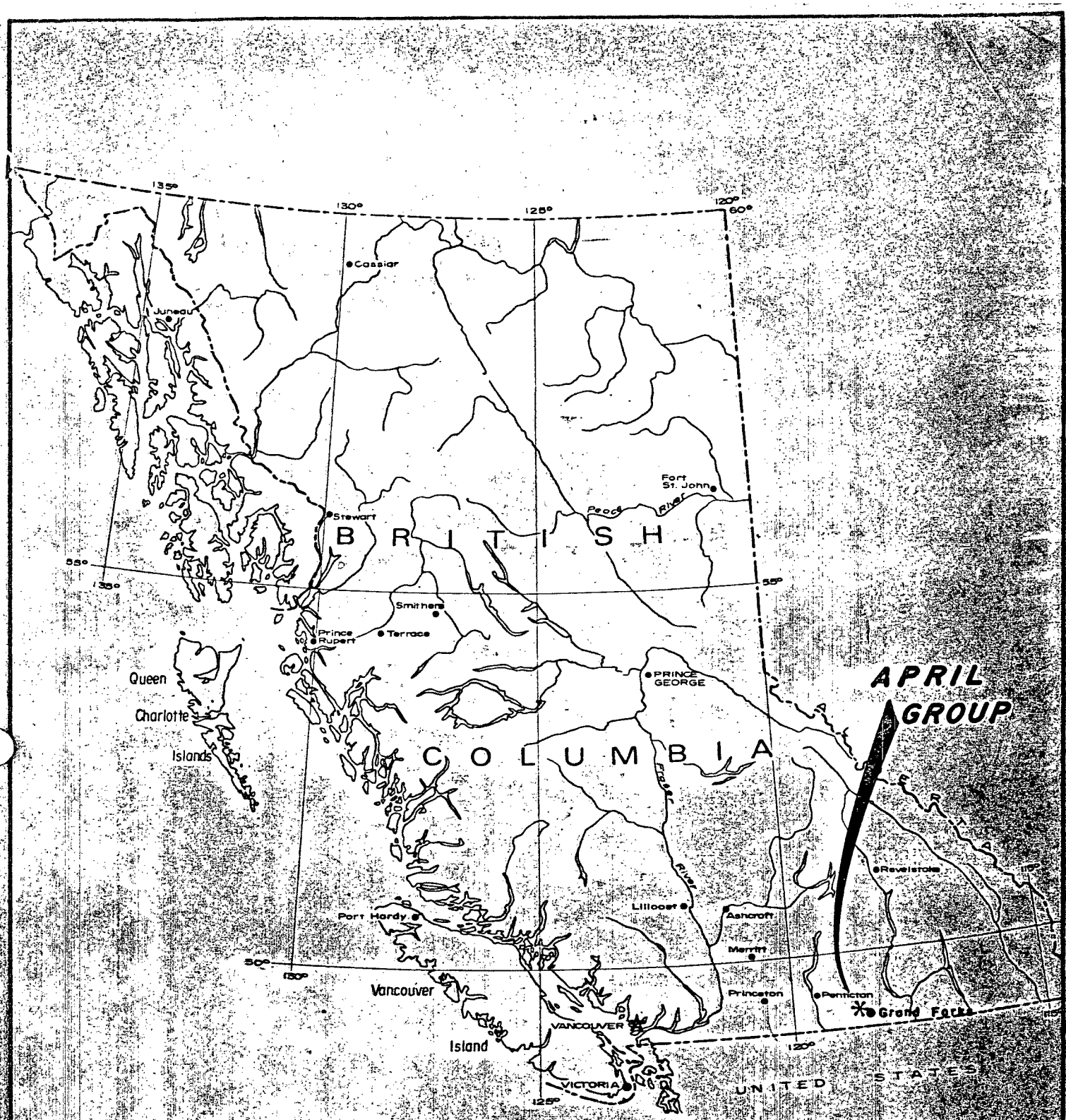
A grid was surveyed over the Florence, Windfall and Tripod reverted crown granted claims located in the north half of the April 3 Claim. The crown granted claims to the north of the grid area are known to cover copper and gold mineralization prospects associated with a serpentized intrusive. The purpose of the magnetometer survey was to determine if the serpentized intrusive extended into the April 3 Claim. The area is covered by a thick stand of second growth hemlock, cedar and fir, resulting in difficult physical conditions for establishing a survey grid.

Personnel

G. Gutrath, P. Eng., overall supervision and report

Jesmex Developments Ltd.:

- John Graham, field supervision of grid survey and magnetometer survey
- 3 man field crew



LOCATION MAP

BANQWEST RESOURCES

APRIL GROUP

ALTAIR drafting services ltd.

Geography

Location

The April Group is located in south central British Columbia, 5 km. northwest of Grand Forks and 6 miles southeast of Greenwood. The Phoenix Mine Camp is 5 km. to the northeast of the property.

Approximate coordinates at the centre of the property are $49^{o}03'$ and $118^{o}34'$ west.

Access

From Grand Forks the property can be reached by taking Highway 3 north for 5.6 km. to the south boundary of the claims. The highway passes through the central portion of the claim groups and the north boundary is 22.5 km. from Greenwood. There are numerous logging roads, old mine roads and 2 abandoned railroad grades that give excellent access to the entire property.

Topography

The claim group covers both sides of the north trending July Creek Valley. The lowest elevation on the property is 790 m. at July Creek on the south boundary. July Creek enters the property 4 km. to the north at an elevation of 960 m. Both sides of the valley rise in a series of rolling benches to an elevation of 1400 m. on the west and to an elevation of 1265 m. at Eagle Mountain on the east side of the valley.

Climate

The property is located in a dry belt but because it is on a pass at a higher elevation it receives more precipitation than the general area. The annual rainfall would be in the order of 60 cm. and winter compacted snowfall would vary from 1 m. to 1.5 m. The area would be free of snow from May to October.

Timber

The area is heavily timbered with second growth fir. Willows, birch and cedar border the creeks.

Water

There is ample water in July Creek and Skeff Creek for drilling purposes.

Claims

The claims have been optioned by Banquest Resources Ltd. from the owner P. Henry.

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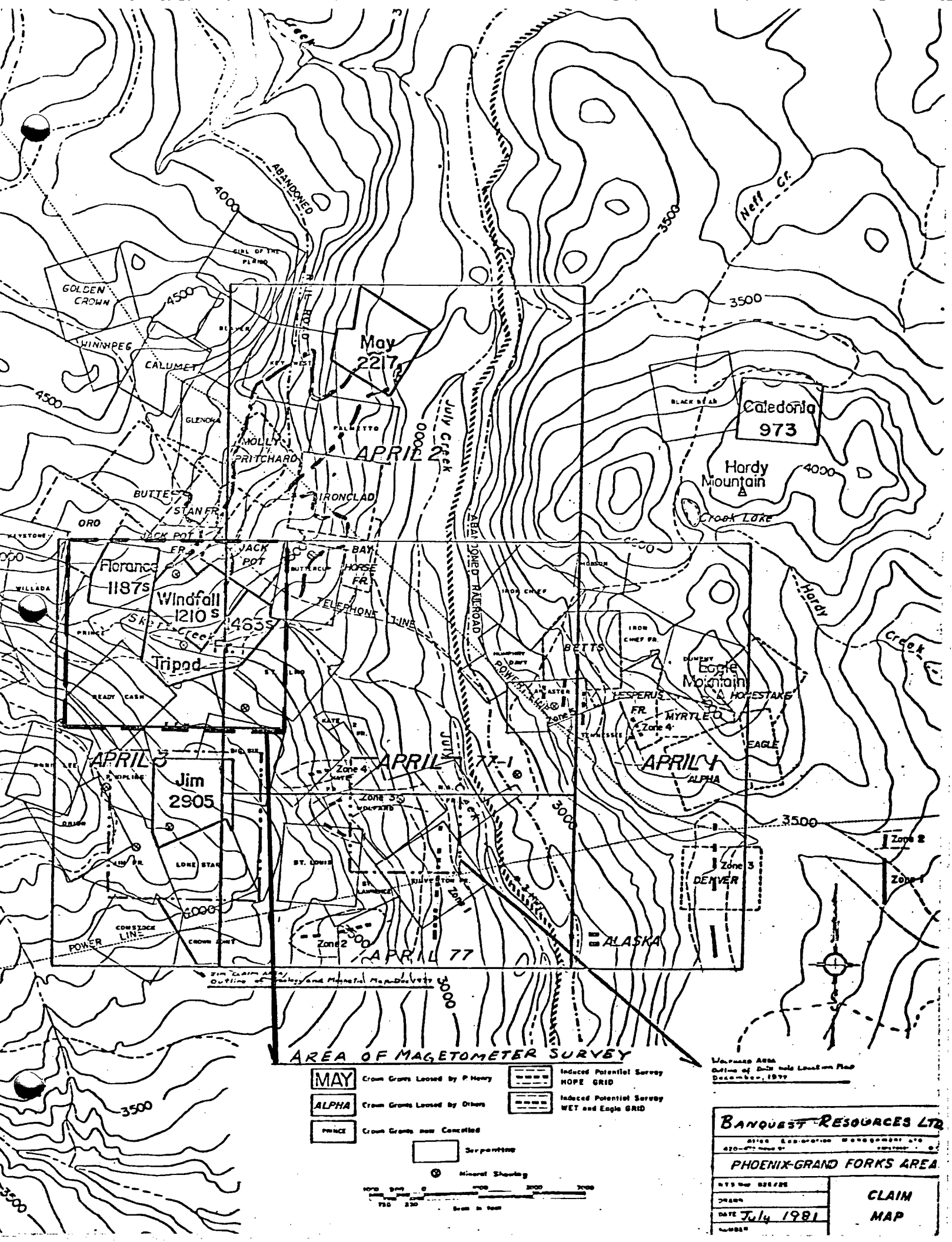

Neff Cr.
ABANDONED
GOLDEN CROWN
WINNIPEG
CALUMET
May
2217
GLENORA
MOLLY PRITCHARD
APRIL 2
BUTTES
STAN FR.
IRONCLAD
ORO
JACK POT
JACK POT FR.
Florance
1187s
Windfall
1210s
463s
Skeet Creek
Tripod
BAY HORSE FR.
TELEPHONE LINE
July Creek
ABANDONED RAILROAD
Caledonia
973
Hardy Mountain
Crook Lake
Hardy Creek
BETTS
Eagle Mountain
HOMESTAKE
YESPERUS FR.
MYRTLE
TENNESSEE
EAGLE
APRIL 4
ALPHA
APRIL 3
Jim
2905
APRIL
JULY 77-1
Zone 4
Zone 3
Zone 2
Zone 1
DENVER
ALASKA
APRIL 77
3000
3500
4000
4500
6000
POWER LINE
AREA OF MAGETOMETER SURVEY
MAY Crown Grants Leased by P Henry
ALPHA Crown Grants Leased by Others
PRINCE Crown Grants now Cancelled
Serpentine
Mineral Showing
Induced Potential Survey HOPE GRID
Induced Potential Survey WET and Eagle GRID
Workings Area
Outline of Drill hole Location Map
December, 1979
BANQUET RESOURCES LTD.
PHOENIX-GRAND FORKS AREA
CLAIM MAP
DATE July 1981

History and Development

Copper deposits were found in the Phoenix - Grand Forks area in 1891. Total production to 1919, when the Granby smelter closed, was 15,000,000 tons, averaging 1.5% copper.

During 1904 and 1905 there was considerable exploration activity in the area now within the April Claim Group. On the Wolfard Claims, that once covered the area drilled in 1977, 120 feet of tunnel and 1,000 feet of diamond drilling was done in 1905. The diamond drilling is reported in the 1905 Minister of Mines Report to have cut through 384 feet of ore, 44 feet of which showed an average value of $8 and the balance ranging from $5 to $6. Considering copper prices in 1905 this indicates a grade of between 1% and 2% copper.

In 1955 Granby resumed work on the Phoenix property after suspension of operation for 36 years. Between 1958 and 1976 the Phoenix ore bodies were mined at a rate of up to 2,700 tons per day. The Phoenix mill continued to operate on low grade stock piles and from ore trucked in from its Lonestar Mine, located 12 mines to the south until 1978.

With the re-opening of the Phoenix operation there was increased exploration activity in the area. The July Creek area, where the April Group is located, was continuously staked from the 1950's to 1972. In 1972 mineral exploration was brought to a virtual standstill by very negative provincial legislation introduced by the newly elected N.D.P. government. As a result, numerous claim groups that were held in good standing for years were allowed to lapse.

In April, 1976, the April Claim Group was staked by Mr. P. Henry, a professional prospector and field technician, and in January 1977 the property was optioned by Banquest Resources Ltd. In November, 1976 Banquest carried out geological, geochemical and magnetic surveys over a portion of the claim group. Additional reconnaissance field work was done on the property in May 1977.

Work Completed

Grid Survey

The base line is north-south and follows the east border of the April 3 Claim. The base line is 1200 m. long. Cross lines start at 0S and extend to 9S at 100 m. intervals. The east cross lines start at 1S and extend to 9S and are 500 m. long. The west cross lines start at 0 to 5S and are 960 m. long. 6S and 7S extend 500 m. to west. 8S and 9S extend 960 m. to west.

The lines were tape and compass surveyed, blazed, and stations marked every 15 m. Total grid line surveyed is 14,300 m.

Magnetometer Survey

The entire grid was not surveyed. The lines not completed do not have station points located on the map. 1670 m. were not surveyed. Readings were taken at 15 m. intervals on the lines surveyed.

Geology

General

The Permian rocks are the oldest in the area. Unit 2, consisting of interbedded argillites and chert, is succeeded northward progressively by younger Units 3, 4, 5 and 6, composed of argillites, chert, greenstone and limestone.

The middle Triassic rocks are the most important sedimentary series in the area since they are the host rocks for the copper-magnetite ore bodies of the Phoenix Wellington Camp.

Unit 7 is lower or middle Tertiary age and is an important marker horizon at the Phoenix mine. It is composed primarily of angular chert fragments. Unit 8 is called the

Rawhide formation and is composed of argillites. It lies within Unit 7 and is of limited lateral extent. Unit 9 is composed of limestone and uniformally overlies Unit 7. It is locally silicified or altered to skarn and is often associated with extensive areas of copper mineralization that form the major ore bodies of the Phoenix Camp.

Upper Triassic Unit 10 is a basal limestone conglomerate that outcrops in two localities in the map area. It is exposed in road cuts on the north side of the map area and in July Creek interbedded with shale on the south side of the map area.

Unit 11 is Jurassic in age and is composed of massive greenstone and flow breccias and is sometimes interbedded with limestone. Unit 11 is believed to rest uncomformably on Unit 2, 7, 9, and 10.

A number of small pyroxenite or serpentine stocks of Cretaceous age outcrop to the northwest of the claim group. These are believed to be directly related to the Wallace Creek batholith that outcrops to the north of Greenwood.

Tertiary volcanic rocks are limited to only a few small areas of rhyodacite. There are a number of small diorite plugs of Tertiary age that have been intruded along a northerly trending belt from the U.S. border, through the map area to the Phoenix mine.

The structural geology of the area is complex. In general the sedimentary trend is in a northwest to northerly direction but original bedding has been either obscured or complicated by alteration, shearing, faulting and folding.

Mineralization

There are three main types of economic mineral deposits in the Greenwood Phoenix area.

1. Quartz Veins:

   The quartz veins are commonly peripheral to the granite-diorite intrusives. They carry pyrite, galena, sphalerite and chalcopyrite and are often associated with high gold and silvers values. They vary from 1 to 5 feet wide and normally have a lenticular shape.

2. Chalcopyrite, Pyrite, Magnetite and Hematite:
These minerals are associated with lime silicate skarn zones and are the most important economic deposits of the area.

The Phoenix mine is the most important property in the area consisting of disseminated chalcopyrite, with pyrite and hematite in an epidote, garnet, quartz and calcite skarn.

3. Pyrrhotite, Pyrite and Arsenopyrite:
These are replacement type deposits that occur near the margins of the more basic and altered intrusives.

The Athelstan-Jackpot mine is located on the northwest edge of the April Group. The ore bodies are arsenopyrite and pyrite replacement deposits in talccarbonate zones along the margins of serpentinized pyroxenite intrusive.

Grid Area

The outcrop geology in the grid area has not been mapped. The Athelstan-Jackpot mine is located immediately to the north of the grid area. The serpentinized pyroxenite intrusive that is directly associated with the sulphide mineralization has a high magnatite content and can be located by magnetometer survey. Regional mapping indicates that the altered peridotite intrusive trends in a south-southwest direction through the Jackpot area and into the April 3 Claim.

Magnetometer Survey

Survey Method

The magnetometer survey was executed using a vertical force fluxgate magnetometer which is hand held and levelled by the aid of a bubble-level on the face of the instrument.

Readings were taken at 15 m. intervals on the cross lines, or if necessary, at closer intervals if it was required to define anomalous conditions.

The instrument was held with the aid of a harness to maintain constant height above ground and distance from the body. Readings were taken facing in one direction using the most sensitive scale possible. A nearby base station was read at the beginning and end of each day for tahe day-to-day correlation.

Instrumentation

A McPhar M700 Model Fluxgate magnetometer was used. The instrument measures vertical force variations in the earth's natural magnetic field, displayed in gammas, on a meter with five ranges for a total range of ± 100,000 gammas. The M700 is very light (6½ lbs.), and fully portable, has excellent temperature stability, has low orientation error and is of rugged construction.

Survey Results

The general background in the grid area is in the range of 1500 to 2000 gammas. A south easterly - north westerly trending anomalous area is centred on line 25 - 60 m. west, with a high reading of 3806 gammas. The 3000 gammas contoured outlines an anomalous area 300 m. long and up to 100 m. wide. The trend of this anomalous zone is almost at right angles to the regional south-southwesterly trend of the serpentized peridotite intrusive. The anomaly may represent a shear zone with a high magnetite content cutting the intrusive.

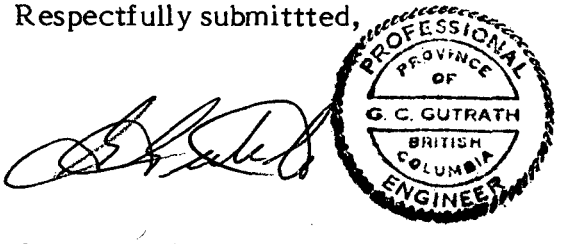
On cross lines 1s and 2s east there is a linear low magnitude, north-south trending anomaly with a high of 3211 gammas. The anomaly can only be traced to the south for 100 m. but may extend to the north.

Conclusion

There is no geological information or detailed terrain information to assist in determining the source of the anomaly on line 2S - 60 m. west. The anomaly is very close to the Athesltan-Jackpot sulphide deposit, but until geological mapping is completed and possibly geochemical surveys done, there is no indication that the anomaly may be related to sulphide mineralization.

If the northwesterly-south easterly trending anomalous zone does not represent a cross with any fault it may be indicating that the peridotite intrusive trends to the southeast instead of continuing in a southerly direction.

Respectfully submittted,



Gordon C. Gutrath, P. Eng.

ENGINEER'S CERTIFICATE

I, GORDON C. GUTRATH of 3880 Selkirk Street, in the City of Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

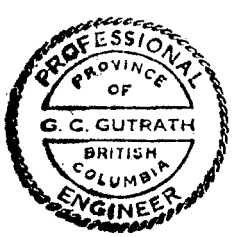
1. That I am a consulting geologist with a business address of 900 - 850 West Hastings Street, Vancouver, B.C. V6C 1E1

2. That I am a graduate of the University of British Columbia where I obtained my B.Sc., in geological science in 1960.

3. That I am a Registered Professional Engineer in the Geological Secstion of the Association of Professional Engineers in the Province of British Columbia.

4. That I have practised my profession as a geologist for the past twenty-one years, and

5. That I have no interest in the property with which this report is concerned, nor do I expect to receive any such interest. I have no interest in the securities of Banquest Resources Ltd.

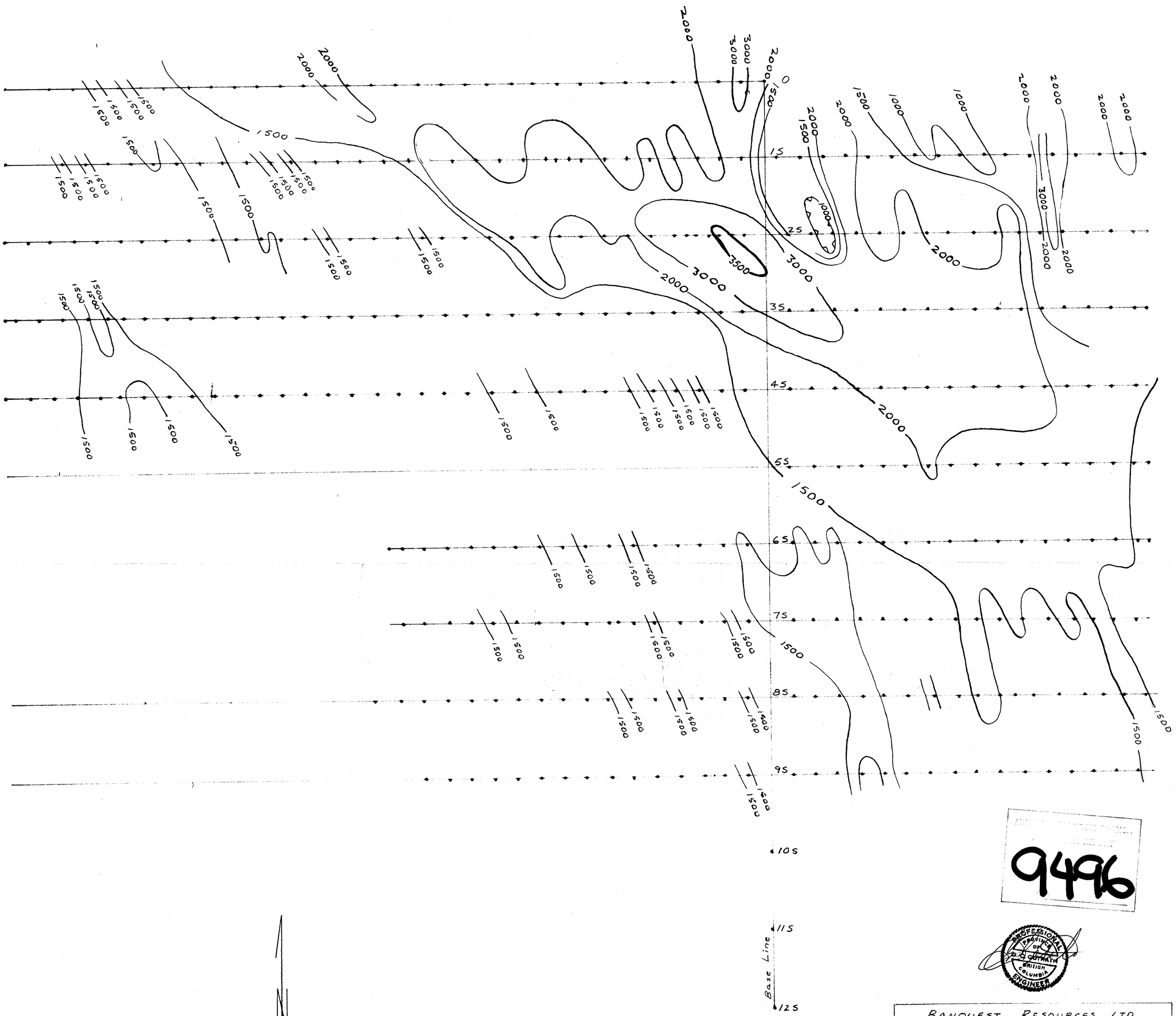


Gordon C. Gutrath, B.Sc., P. Eng.

DATED at the City of Vancouver, Province of British Columbia, this 28 day of Aug, 1981.

EXPENDITURES

Physical; road reclamation:			
	Labour	$125.00	
	Truck	50.00	
	Power saw	20.00	
	Hotel	27.50	
	Meals	11.05	233.55
Grid establishment, 14.61 KM @ $135/KM			1972.35
Magnetometer survey 12.38 KM @ 150/KM			1707.00
Consulting and report preparation			1500.00
Additional costs:	Truck		50.00
	Labour		600.00
	Instrument rent		100.00
	Travel		67.00
TOTAL TECHNICAL			5996.35



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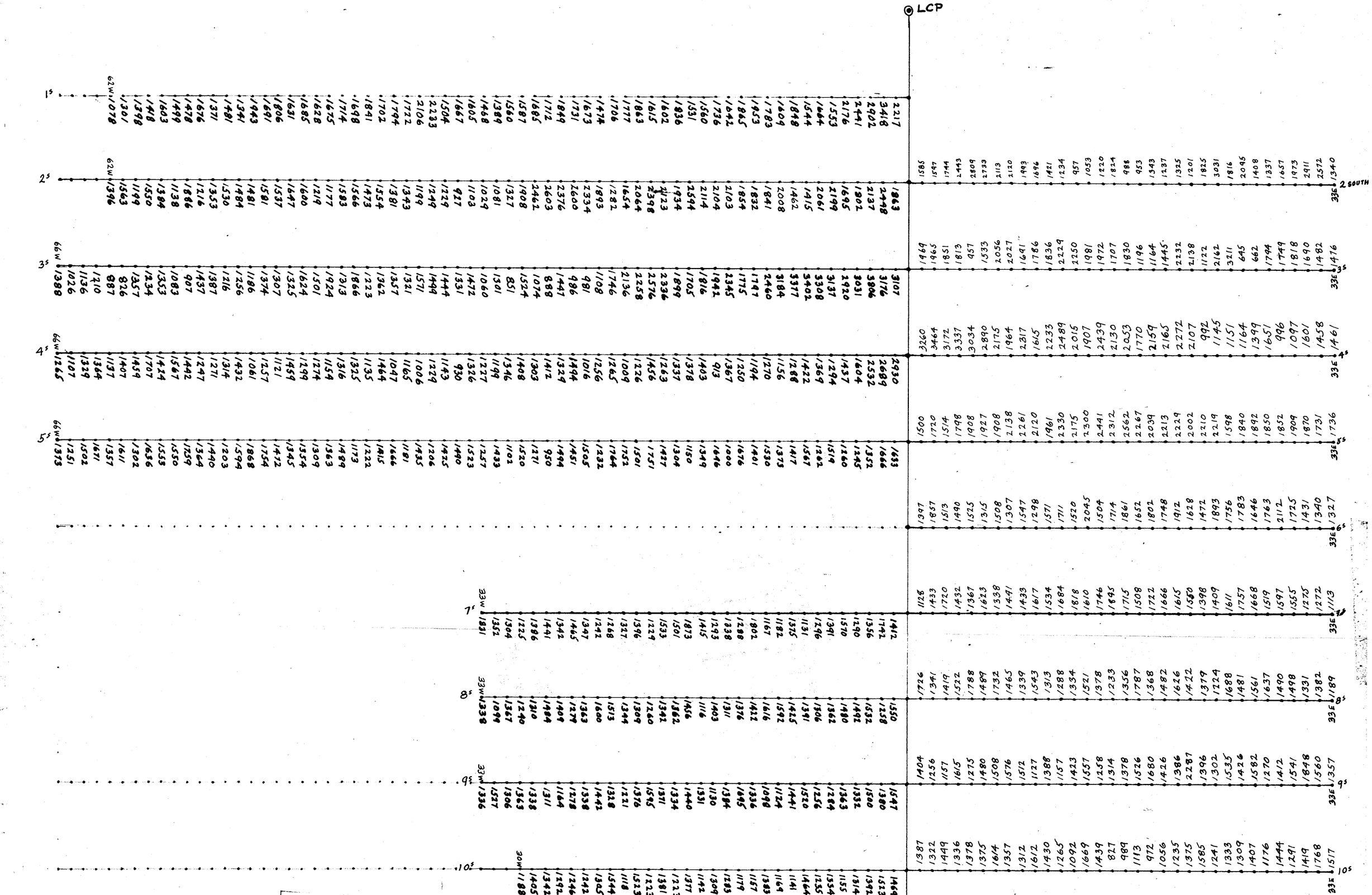
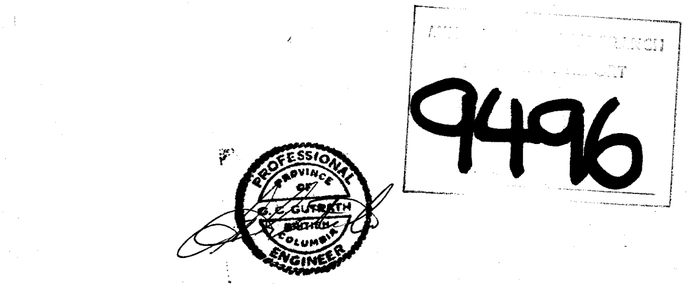
BANQUEST RESOURCES LTD.	
APRIL CLAIM GROUP	
MAGNETOMETER SURVEY	
SCALE 1:300	Greenwood Mining Div.
Drawn: GG	NTS 82E/2E





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BANQUEST RESOURCES LTD.		
APRIL CLAIM GROUP		
MAGNETOMETER SURVEY GRAND FORKS AREA APRIL 80 and ASSC'D. CLAIMS SAMPLING AT 15m INTERVALS		
SCALE 1:300		Greenwood Mining Div.
DWN. BY JG	PROJ. No 1	NTS 82 E/2E