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GEOPHYSICAL REPORT

MERRITT AIRBORNE PROJECT, 1981

NICOLA MINING DIVISION, BRITISH COLUMBIA

MAP SHEET 92I/2E

APPROX. CO-ORDINATES 50° 03' N, 120° 36' W

July 8, 1981

W. G. Timmins Exploration & Development Ltd.
Columbia Geophysical Services Ltd.

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SUMMARY

A combined airborne magnetometer and VLF-EM survey known as the Merritt Airborne Project, 1981 was flown by Columbia Geophysical Services Ltd. during the month of June, 1981 as a joint exploration programme. The data was collected, mapped and analysed in this report covering the entire area.

In general the area is underlain by Lower Cretaceous Kingsvale Group volcanics and sediments, Nicola Group volcanics and Upper-Jurassic to Lower-Cretaceous conglomerate, grit, and sandstone. Several copper showings are known to occur within the area. A northeast trending fault and fault contact occur in the northwest section and south central sections of the survey area and major northeast and northwest trending fault structures occur in the southeastern section of the survey area.

Magnetics have outlined several rock types and contacts within the survey area. VLF-EM anomalous responses on which follow up ground work is recommended occur in the RB3 claim, RB2 claim, RB5 claim, OC1 claim, Cr1 claim, CR2 claim, Dor claim and the TP4 claim.

Follow up ground work consisting of geological mapping, prospecting, ground VLF-EM surveys, and soil sampling

surveys are recommended over anomalous EM conductive zones particularly in contact areas and highly faulted areas.

July 8, 1981

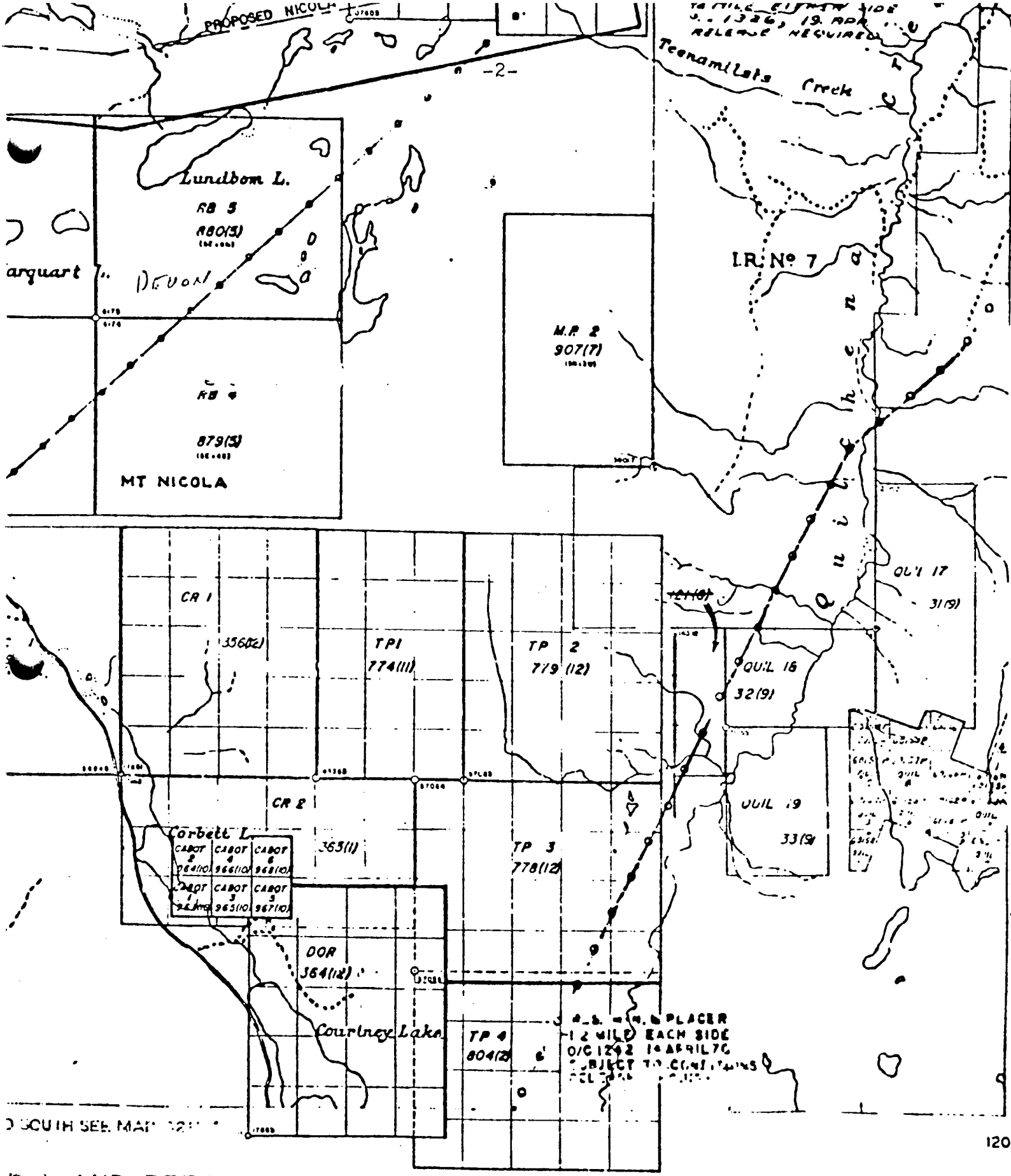
INTRODUCTION

During the month of June, 1981, a joint venture exploration programme was carried out by Columbia Geophysical Services Ltd. in the Merritt area of British Columbia. The programme is referred to as the Merritt Airborne Project 1981 consisting of combined airborne magnetometer and VLF-Electromagnetic surveys.

This report discusses the geology of the area and the geophysical results obtained by the airborne survey.

PROPERTIES COVERED BY SURVEY

Company	Claim Name	No. of Units	Record No.	Expiry Date
Devon Ind. Inc.	RB5	20	880	May, 1981
Brigade Res. Ltd.	RB2	20	835	April, 1981
Celeste Res. Ltd.	RB4	20	879	May, 1981
Pentagon Res. Ltd.	CR1		356	Dec., 1984
Sutherland Res. Ltd.	TP1	15	774	Nov, 1981
	TP2	20	779	Dec., 1981
	TP3	20	778	Dec, 1981
Cameron Res. Ltd.	CR2	15	365	Jan, 1982
Unavailable	Dor	20		June, 1982
Unavailable	TP4	20		June, 1982



AND PETROLEUM RESOURCES
VICTORIA, B C

LOCATION AND ACCESS

The area is located about 15 km. southeast of the town of Merritt, British Columbia and may be reached by B.C. Highway #5. Several secondary roads provide access to the various claims within the area.

TOPOGRAPHY, VEGETATION, WATER SUPPLY

The topography is one of gently rolling hills and upland pastures with stands of coniferous trees and very little underbrush. Elevations in the area range from approximately 1100 meters to 1500 meters.

Sufficient water for exploration purposes would be available from several small lakes and streams scattered throughout the claims area.

POWER

Although diesel electric power would be required for initial phases of exploration and development, hydro power lines run through the northern and southern sections of the survey area.

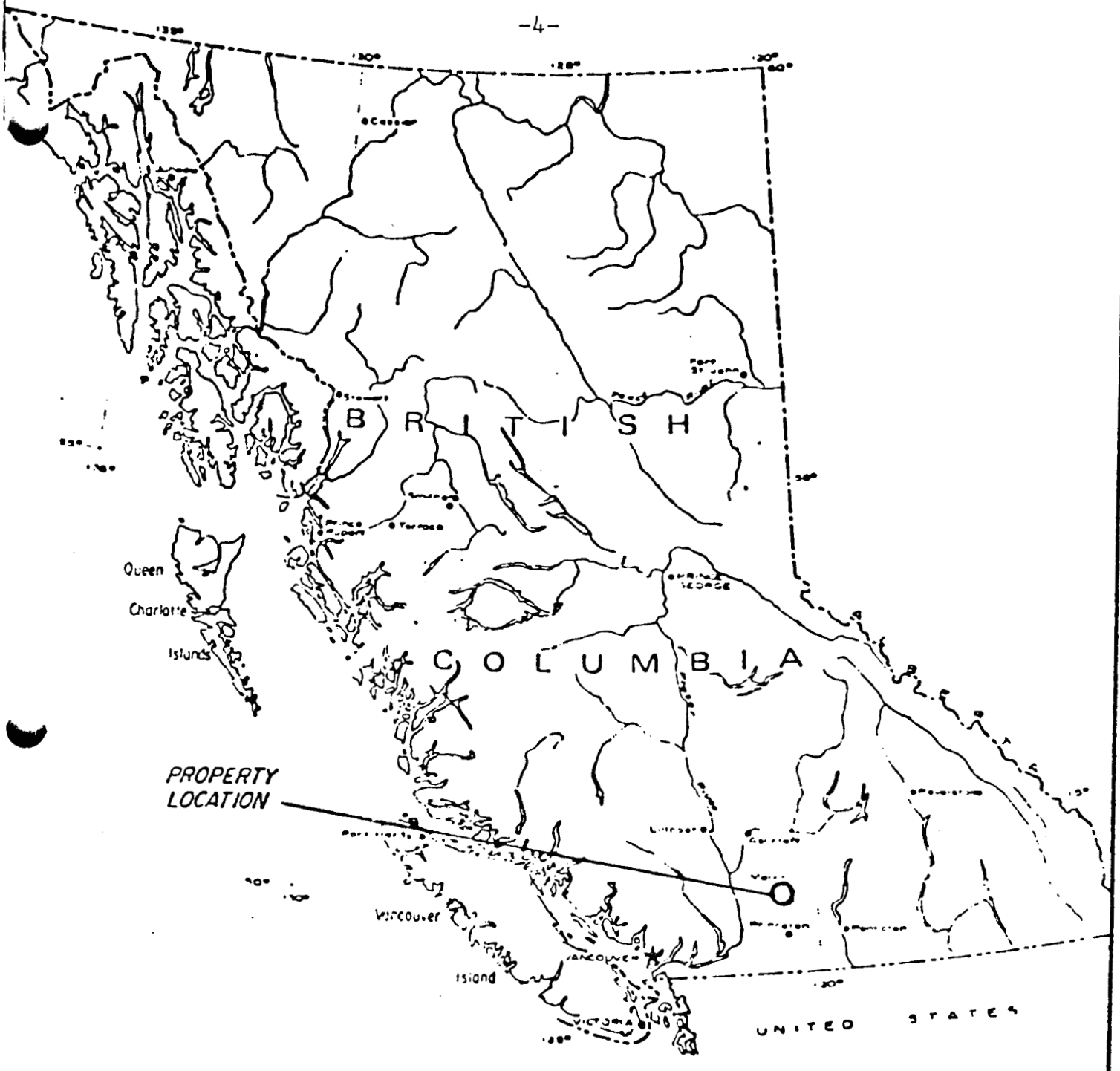


FIG. 1.

LOCATION MAP

SUPPLIES

Most supplies would be available from Merritt or Kamloops, British Columbia.

TRANSPORTATION

Rail service is located in Merritt and good daily truck transportation is also available in the area.

HISTORY

The Nicola volcanic belt has long been the object of mineral exploration. This belt consists of both marine and terrastrial volcanic rocks as well as associated sediments, and a high background level of copper appears to be a common characteristic of the volcanics. There are numerous copper showings in the Aspen Grove camp a few kilometers to the south, and major producers in the area include the Ingerbell-Copper Mountain deposits near Princeton, Craigmont deposit, near Merritt, and the Afton deposit, near Kamloops.

In the Courtney Lake area, copper mineralization occurs within shear zones in Nicola meta-volcanics. Similar copper occurrances are found accompanied by magnetite in the Hamilton Creek area.

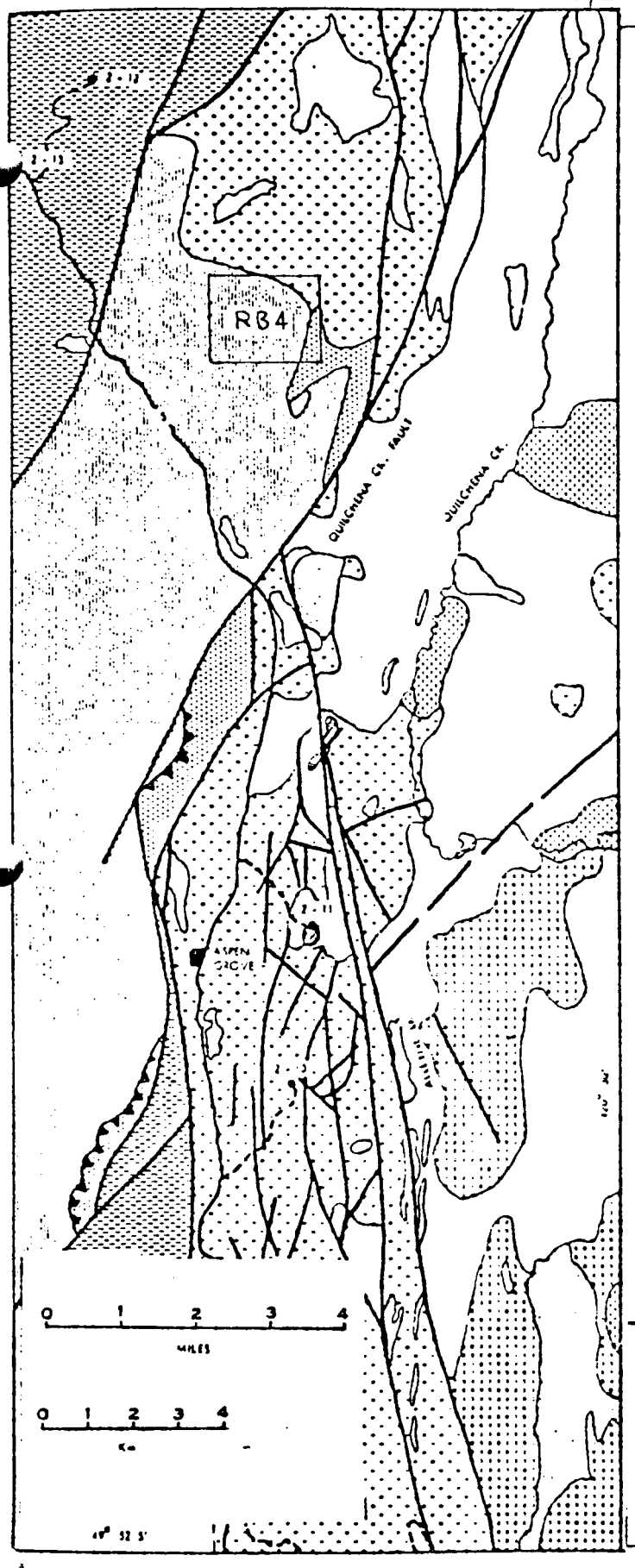
Various portions of the survey area have been subjected to ground geological and geophysical surveys as well as some soil sampling surveys in the past. A few shafts, pits and adits have been excavated in some places within the survey area in years past. Some diamond drilling is known to have been carried out on the CR 1 and Dor mineral claims.

REGIONAL GEOLOGY

A northerly trending band of Triassic Nicola rocks ranging from 12 to 35 kilometers wide stretches from near the U.S. border in the south to beyond Kamloops Lake in the north. Within the Nicola Group, which is comprised of volcanic flows, conglomerates, argillites, tuffs, breccias and limestones, are more recent formations of sedimentary rocks as well as stocks and plugs of Jurassic Coast and Copper Mountain intrusives.

Large scale, north trending faults, both parallel and subparallel occur to the south of Merritt, British Columbia.

Numerous copper occurrences have been located in the Aspen Grove camp since the early 1900's.



- LEGEND -

PLEISTOCENE AND RECENT

VALLEY BASALT

MIDDLE EOCENE

PRINCETON GROUP CONGLOMERATE, SANDSTONE, SILTSTONE, BASALTIC FLOWS AND BRECCIA

UPPER CRETACEOUS AND POST-LOWER CRETACEOUS

GRAY GRANODIORITE AND QUARTZ MONZONITE, PINK GRANITE, SYENODIORITE, MONZONITE, GRANODIORITE AND QUARTZ DIORITE

LOWER CRETACEOUS

KINGSVALE GROUP (?) ANDESITIC AND BASALTIC FLOWS, BRECCIA AND TUFF, RED CONGLOMERATE, SANDSTONE AND SHALE, MINOR LIMESTONE

UPPER JURASSIC TO LOWER CRETACEOUS

CHERT PEBBLE AND COBBLE CONGLOMERATE, MINOR GRIT AND SANDSTONE

SUBAERIAL ANDESITIC TO RHYOLITIC FLOWS AND ASH FLOWS, LITHIC TUFF AND LAHARIC DEPOSITS

LOWER JURASSIC OR LATER

TRANSMASK BATHOLITH: DIORITE - HORNBLENDE GRANODIORITE AND QUARTZ DIORITE

UPPER TRIASSIC TO LOWER JURASSIC

ALLISON LAKE PLUTON: RED GRANITE AND GRAY QUARTZ MONZONITE, GRANODIORITE AND DIORITE

PINK AND GRAY MONZONITE AND SYENITE, AND INTRUSIVE BRECCIA

DIORITE, QUARTZ DIORITE, MONZONITE AND DIORITE BRECCIA

NICOLA GROUP WESTERN BELT: ANDESITIC TO DACITIC FLOWS AND TUFF BRECCIA, LIMESTONE, VOLCANIC CONGLOMERATE, SANDSTONE AND SILTSTONE

NICOLA GROUP EASTERN BELT: BASALTIC AND ANDESITIC FLOWS, AMYGDULOIDAL TRACHYBASALT TUFF, VOLCANIC SANDSTONE AND LAHARS

NICOLA GROUP CENTRAL BELT: BASALTIC AND ANDESITIC FLOWS AND BRECCIA, TUFF AND TUFF BRECCIA, GREEN AND RED LAHARS, VOLCANIC SANDSTONE, SILTSTONE, ARGILLITE AND RECRYSTALLIZED LIMESTONE

GEOLOGICAL CONTACT

FAULT

EXCURSION ROUTE, HIGHWAY 3

EXCURSION STOP LISTED BY DAY e.g. 2 - 3 MEANS DAY 2 STOP 3

GENERALIZED GEOLOGY OF THE NICOLA BELT BETWEEN PRINCETON AND MERRITT

FIGURE 2 - 1 FOR NORTHERN PART OF MAP SEE FIGURE 2 - 2

Adapted from Preto and Northcote, 1977

GEOPHYSICAL SURVEY

Survey Proceedure: During the month of June, 1981 the Merritt Airborne Project, 1981, consisting of a combined airborne magnetometer and VLF-EM survey was carried out over the area by Columbia Geophysical Services Ltd.

Instrumentation used was a Sabre Electronics Airborne system consisting of proton precession magnetometer and VLF-Electromagnetic receiver. The detecting elements are housed in a two meter "bird" which was towed 15 meters below the aircraft at a mean terrain clearance of 75 meters, with a flight line spacing of 200 meters.

Flight line control was visual using a topographical map on a scale of 1:10,000, correlating prominent topographical features to the map and strip charts. There are numerous visual tie points, so the flight lines are considered to be accurately plotted. Flight lines were oriented in an east - west direction.

The survey was flown, using a Bell 206 Jet Ranger helicopter from Highland Helicopters, at Agassiz, British Columbia. The air survey crew consisted of pilot, project geophysical supervisor and operator, T. Rolston and navigator, E. Dodd.

Total survey mileage is 360 line kilometers and all data were recorded on analog strip chart recorders and data compiled on a map scale of 1:10,000.

INSTRUMENTATION & THEORY

MAGNETIC SURVEY

The magnetic data was detected, using a nuclear free precession proton magnetometer manufactured by Sabre Electronic Instruments Ltd. of Burnaby, B. C. This measured the total count of the earth's magnetic field intensity with a sensitivity of one gamma. The data is recorded on a 12 cm. analog strip chart.

Only two commonly occurring minerals are strongly magnetic; magnetite and pyrrhotite. Hence magnetic surveys are used to detect the presence of these minerals in varying concentration. Magnetic data are also useful as a reconnaissance tool for mapping geologic lithology and structure, since different rock types have different background amounts of magnetite or mafic minerals.

VLF ELECTROMAGNETIC SURVEY

A VLF-EM receiver manufactured by Sabre Electronic Instruments Ltd. of Burnaby, B. C. was used for the VLF-EM survey. The transmitter used was NLK Arlington (Seattle) Washington, U.S.A. transmitting at 18.6 KHz.

This station transmission was used due to its orientation in line with the geological structure on this property and very good signal strength. The measure taken on the survey was variation in the horizontal component of the signal field strength. Because of its EM frequency, the VLF-EM can pick up conductors caused by electrolyte-filling fault or shear zones and porous horizons, graphite, carbonaceous sediments, lighological contacts as well as sulphide bodies.

MAGNETIC RESULTS

Background magnetics for the survey area are in the range of 1100 gammas and magnetic readings range from less that 1000 gammas to 1900 gammas. High magnetics ranging from 1200 to 1500 gammas in the northwestern section of the survey area through most of the RB2 claim, the eastern half of the RB3 claim, the northern and western section of the RB5 claim, the western section of the RB4 claim, the western half of the CR1 claim and the eastern section of the OC1 claim indicate that these areas are underlain by Kingsvale Group rocks.

A northeast trending fault contact is indicated in the area of the RB2 and RB3 claims, between Kingsvale Group rocks on the east and Nicola Western Belt volcanics to the west. A magnetic depression indicates the fualt contact zone.

Low magnetics in the eastern section of the RB5 and RB4 claims indicate a contact between Kingsvale Group rocks and upper Jurassic to Lower Cretaceous, chert, pebble and cobble conglomerate, minor grit and sandstone or Nicola group eastern belt volcanics.

The southeastern section of the survey area in proximity to the TP1, TP2, TP3, CR1, CR2 and Dor claims is an area of conplex faulting indicated by magnetic lows. A northeast trending fault through the CR2 and TP1 claims indicates a fault contact between Kingsvale Group rocks on the northwest side and probable Nicola volcanics eastern belt on the southeast side. A parallel northeast trending fault occurs through the Dor, TP3 and TP2 claims in the vicinity of Quilchena Creek. A northwest trending fault intersects the northeast trending fualt structures and passes through the TP4, Dor, CR2 and the southern protion of the CR1 claim. These fault zones are all major structures in the area. High magnetics in the central southern section of the RB2 claim ranging from 1200 to 1900 gammas and magnetics ranging from 1200 to 1500 gammas in the southeastern corner of the TP1 claim, the northeast corner of the CR2 claim and the northwestern corner of the TP3 claim as well as high magnetics ranging from 1200 to 1700 gammas in the south central section of the Dor claim indicate the presence of possible dioritic intrusives magnetite and/or pyrrhotite.

Magnetics ranging from 1200 to 1400 gammas in the eastern section of the TP3 claim and southeastern corner of the TP2 cliam indicate a change in rock type underlying this area.

VLF-EM RESULTS

Hydro power transmission lines are the causitive source for the strong, conginuous EM conductive zones through the RB2 and RB5 mineral claims and the TP4 and TP3 mineral claims.

A northeast trending conductor occurs in the fault zone area of the RB3 mienral claim which is intersected by two northwest trending conductors. This conductive zone appears to cross the fault contact. Although the fault zone itself may be the causitive source for the EM anomaly, this area should be ground geologically investigated. Two parallel northwest trending EM conductors occur in the southwest section of the RB3 claim and should also be ground investigated.

Four EM anomalous zones trending north-southerly and north-east - southwesterly occur in the central section of the RB4 claim across and on both sides of the geological contact zones. These EM anomalous zones also warrant ground checks as sulphide mineralization may be the causitive source.

A northwest trending conductor in the the northeast corner of the OC1 claim and two northwest trending conductors in the CR1 claim should be geologically ground checked to determine the causitive source which may be due to shear zones and possible sulphide mineralization.

A high priority area of anomalous EM activity occurs in the vicinity of the mojor cross faulted structures particularly within the CR2 mineral claim, the southeastern section of the CR1 mineral claim, the southwestern corner of the TP1 mineral claim and the northern sector of the Dor mineral claim should be thoroughly investigated, as sulphide mineralization may be present in this highly faulted area.

A northeast trending EM conductor occurs on the northeast side of a major fault in the southeastern portion of the TP4 mineral claim paralleling the flank of a hill. This conductor should be geologically ground checked to determine the causitive source.

CONCLUSIONS AND RECOMMENDATIONS

A combined airborne magnetometer and VLF-EM survey known as the Merritt Airborne Project, 1981 was flown by Columbia Geophysical Services Ltd. during the month of June, 1981 as a joint exploration programme. The data was collected, mapped and analysed in this report covering the entire area.

In general the area is underlain by Lower Cretaceous Kingsvale Group volcanics and sediments, Nicola Group volcanics and Upper-Jurassic to Lower Cretaceous conglomerate, grit and sandstone. Several copper showings are known to occur within the area. A northeast trending fault and fault contact occur in the northwest section and south central sections of the survey area and major northeast and northwest trending fault structures occur in the southeastern section of the survey area.

Magnetics have outlined several rock types and contacts within the survey area. VLF-EM anomalous responses on which follow up work is recommended occur in the RB3 claim, RB2 claim, RB5 claim, OC1 claim, CR1 claim, CR2 claim, Dor claim, and the TP4 claim.

Follow up ground work consisting of geological mapping, prospecting, ground VLF-EM surveys, and soil sampling surveys are recommended over anomalous EM conductive zones particularly in contact areas and highly faulted areas.

Respectfully submitted:

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

T. Rolston
Columbia Geophysical Services Ltd.

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 practising 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 the various companies represented by this survey area.

5. This report is based on private and government reports and maps, numerous visits to the area, and an analysis of date provided by Columbia Geophysical Services Ltd.

Dated this 8th Day of July, 1981.

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

Columbia geophysical supplies ltd.

7050 HALLIGAN STREET, BURNABY, B.C. V5E 1R6

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 1 day of JULY 1981.

TC Rolston

Tom Rolston, Project Manager

REFERENCES

Aeromagnetic Map, Merritt, B.C. Geol. Survey of Canada, Map 5209G, Sheet 92Ié2, 1968.

Fraser, D.C. Contouring of VLF-EM Data, Geophysics, Vol. 34, No. 6 (December), 1969.

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Timmins, W. G., P. Geol., Geophysical Report on the RB2 claim, Nicola Mining Division, British Columbia, for Brigade Resources Ltd., February 22, 1981

Tough, T. R., P. Eng., Geological Report on the TP1 claim Nicola Mining Division, British Columbia for Sutherland Resources Ltd., February 11, 1980.

Tough, T. R., P. Eng., Geological Report on the CR2 claim, Nicola Mining Division, British Columbia for Cameron Resources Ltd., October 10, 1978.

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July 27, 1981

MERRITT AIRBORNE PROJECT 1981

During the month of June to July 1981, a joint venture exploration program was carried out by Columbia Geophysical Services Ltd. The program is referred to as the Merritt Airborne Project 1981, consisting of combined airborne geophysical survey, magnetometer and VLF electromagnetic survey at 200 metre flight line spacing with a mean terrain clearance of 75 metres.

The data were collected, mapped, analyzed and produced on one report covering the complete area: "Merritt Airborne Project 1981."

The cost of this project was Thirty-six Thousand ($36,000.00) Dollars (360 Line Km at $100.00) and was prorated among the participating companies, as per the following.

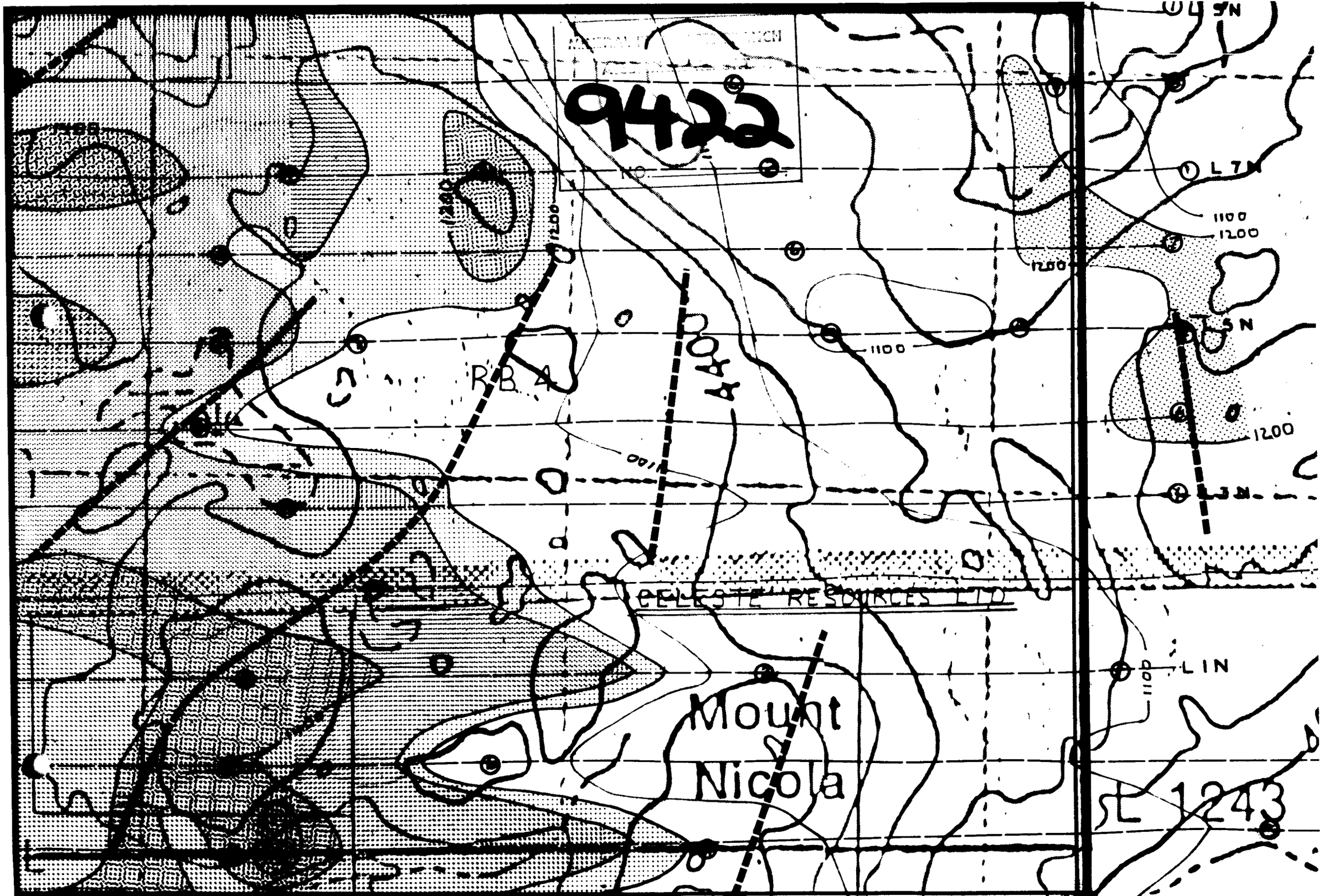
COLUMBIA GEOPHYSICAL SERVICES LTD.

Per: 

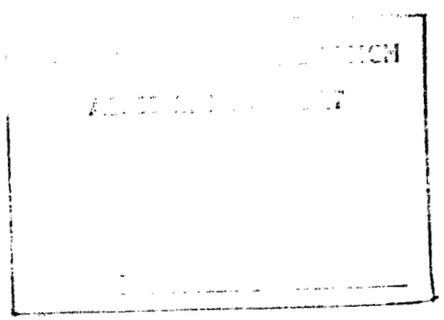
Tom Rolston,
Project Geophysicist/Manager

MERRITT AIRBORNE PROJECT 1981

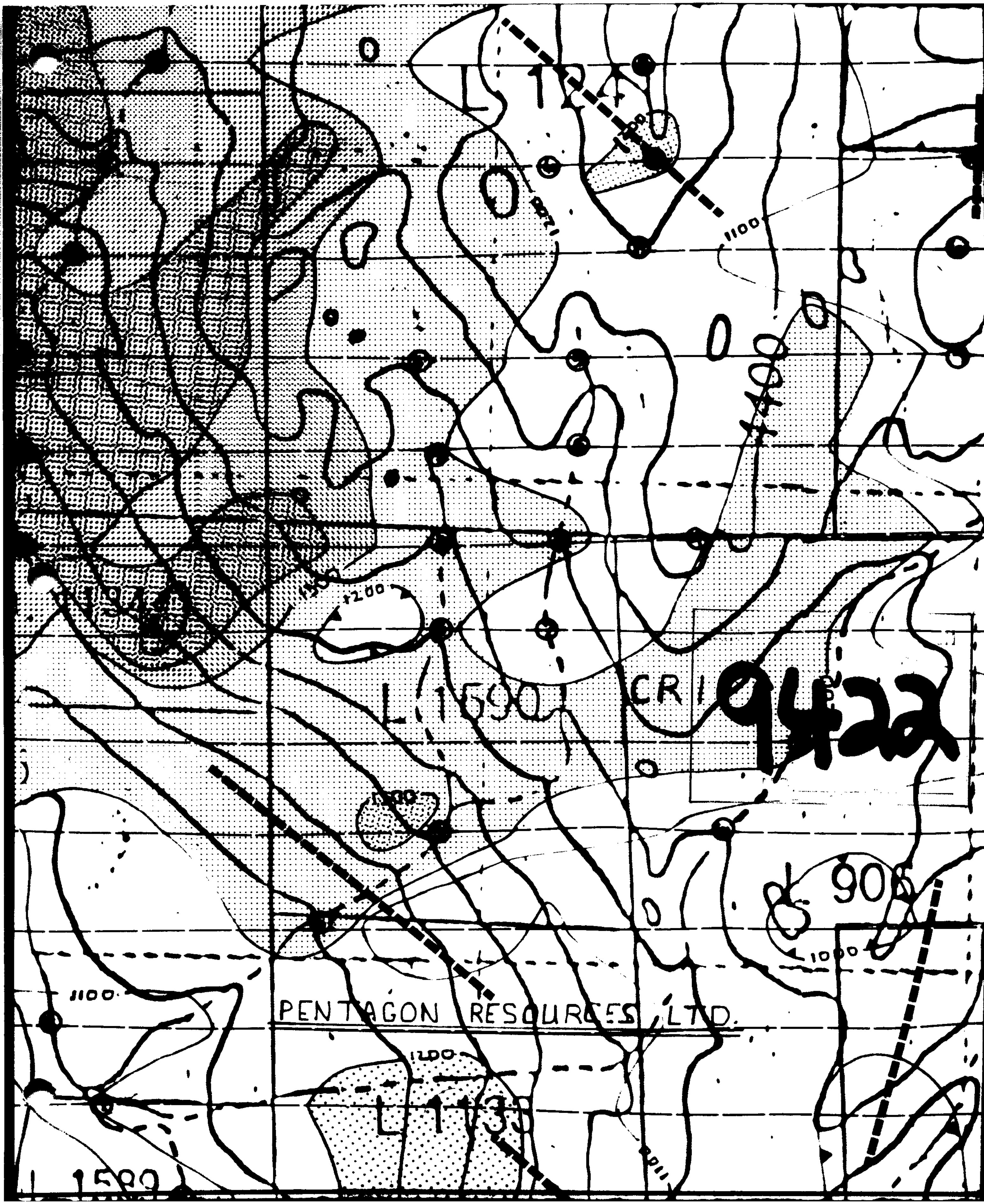
COMPANY	CLAIM	RECORD NO.	EXPIRY DATE	NO. UNITS
Devon Industries Inc.	RB 5	880	May 1981	20
Brigade Resources Ltd.	RB 2	835	April 1982	20
Celeste Resources Ltd.	RB 4	879	May 1982	20
Pentagon Resources Ltd.	CR 1	356	Dec. 1984	
Sutherland Resources Ltd.	TP 1	774	Nov. 1981	15
Sutherland Resources Ltd.	TP 2	779	Dec. 1981	20
Sutherland Resources Ltd.	TP 3	778	Dec. 1981	20
Cameron Resources Ltd.	CR 2	365	Jan. 1982	15
Missile Resources Ltd.	Dor	1078	June 1982	20
Missile Resources Ltd.	TP 4	1079	June 1982	20
Gloria Resources Inc.	OC 1	969	Oct. 1981	20


9422
R.B.A.
ROAD
CELESTE RESOURCES LTD
Mount
Nicola
SL 1243
1100
1200
LIN

GCHP



CELESTE RESOURCES LTD
RB 4 CLAIM



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1200
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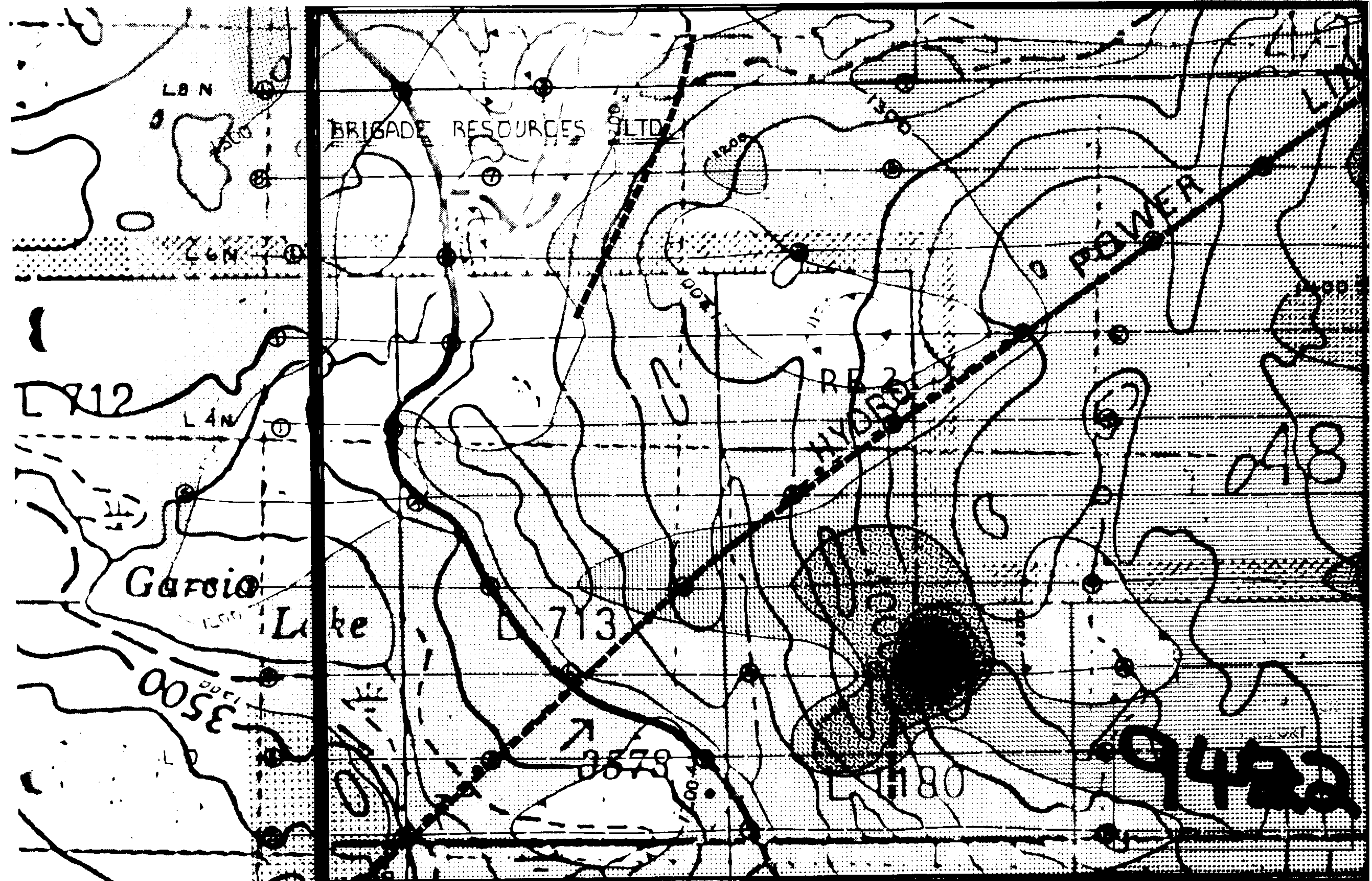
CR
9422
L 906
1000
1100
PENTAGON RESOURCES LTD.
1200
L 1133



BRIGADE RESOURCES LTD
L8N
L6N
L4N
L712
L713
Garcia
Lake
3500
RB 2
HYDRO
POWER
048
H80
9422

L 1492
L 1494
RB 3
RB 5
Marquart Lake
Lundbom Lake
DEVON INDUSTRIES INC.
9422
3596
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3800
4100
4000
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L 10 N
L 11 N
L 13 N
L 15 N
L 18 N
L 21 N
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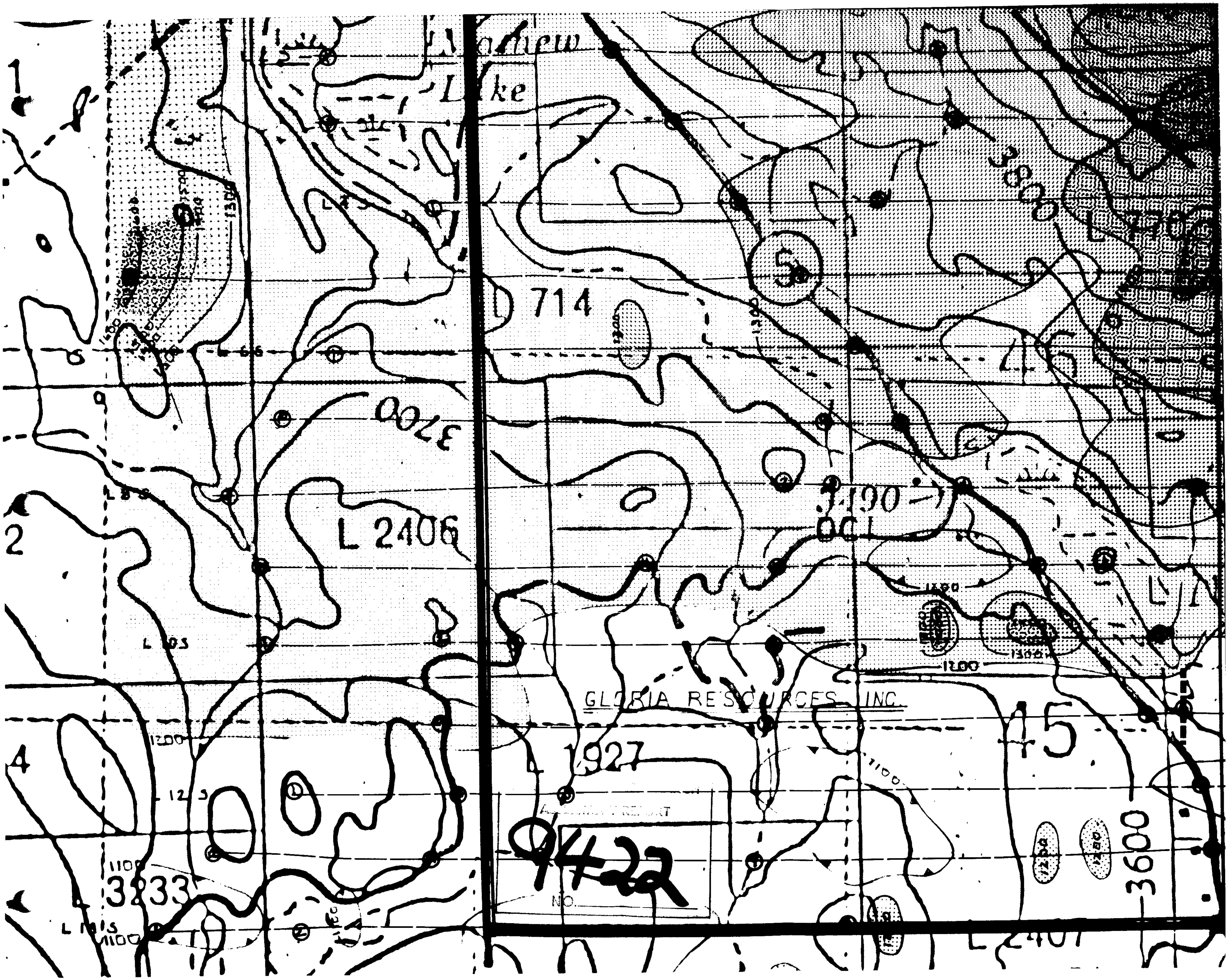
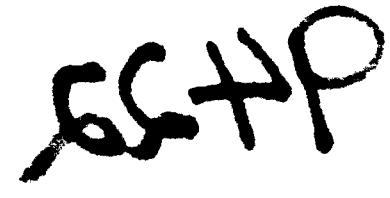
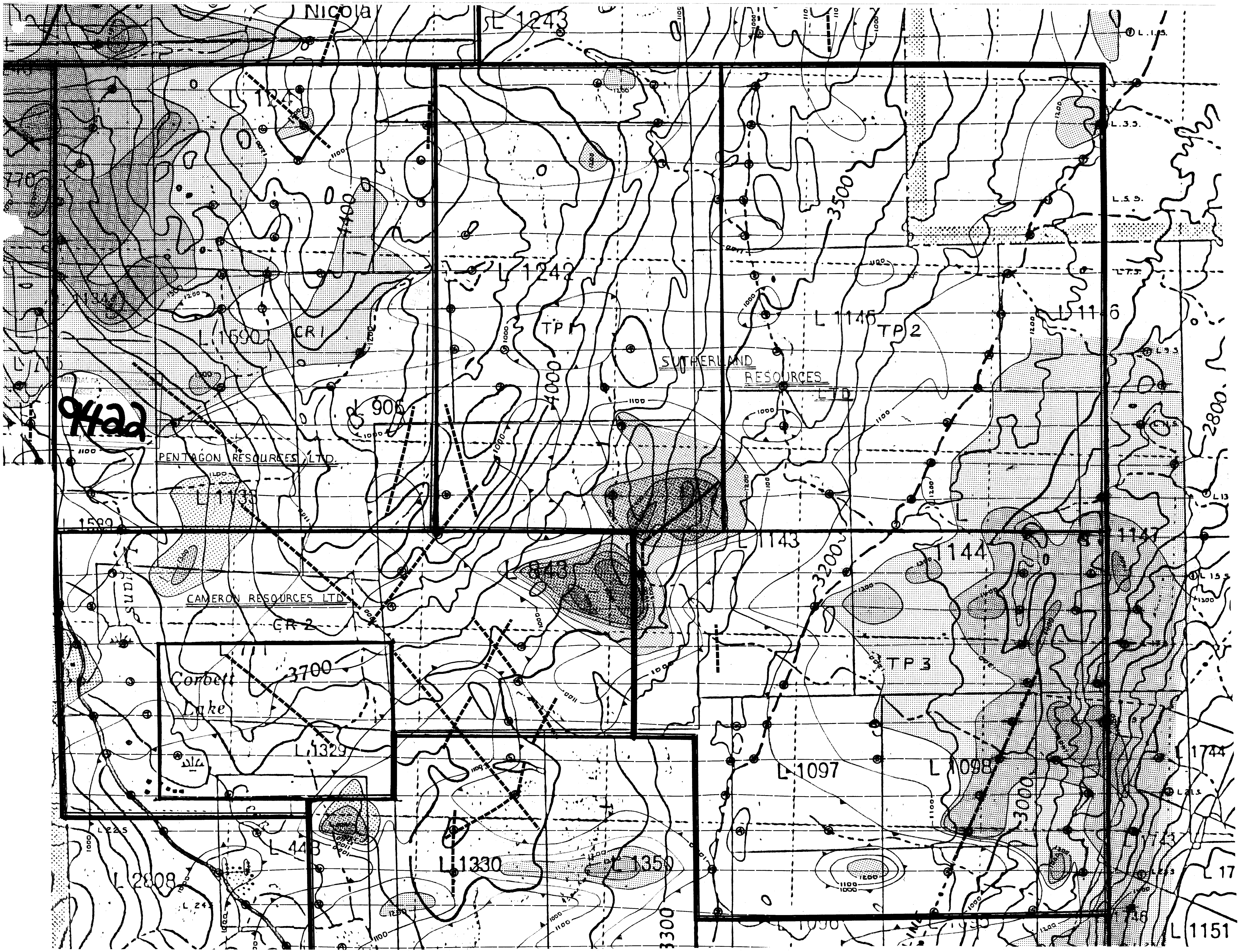
1300
1100



Lake
714
3700
L 2406
3190
GLORIA RESOURCES INC.
15
L 1927
9422
3233
3600
L 2407

GLORIA RESOURCES INC.
OC 1 CLAIM





Nicola
L 1243
L 1242
L 1145
TP 2
TP 1
CR 1
L 1590
L 906
SUTHERLAND RESOURCES LTD
PENTAGON RESOURCES LTD.
944a2
L 1135
L 1143
L 1144
L 1147
L 843
CAMERON RESOURCES LTD
CR 2
TP 3
Corbett Lake
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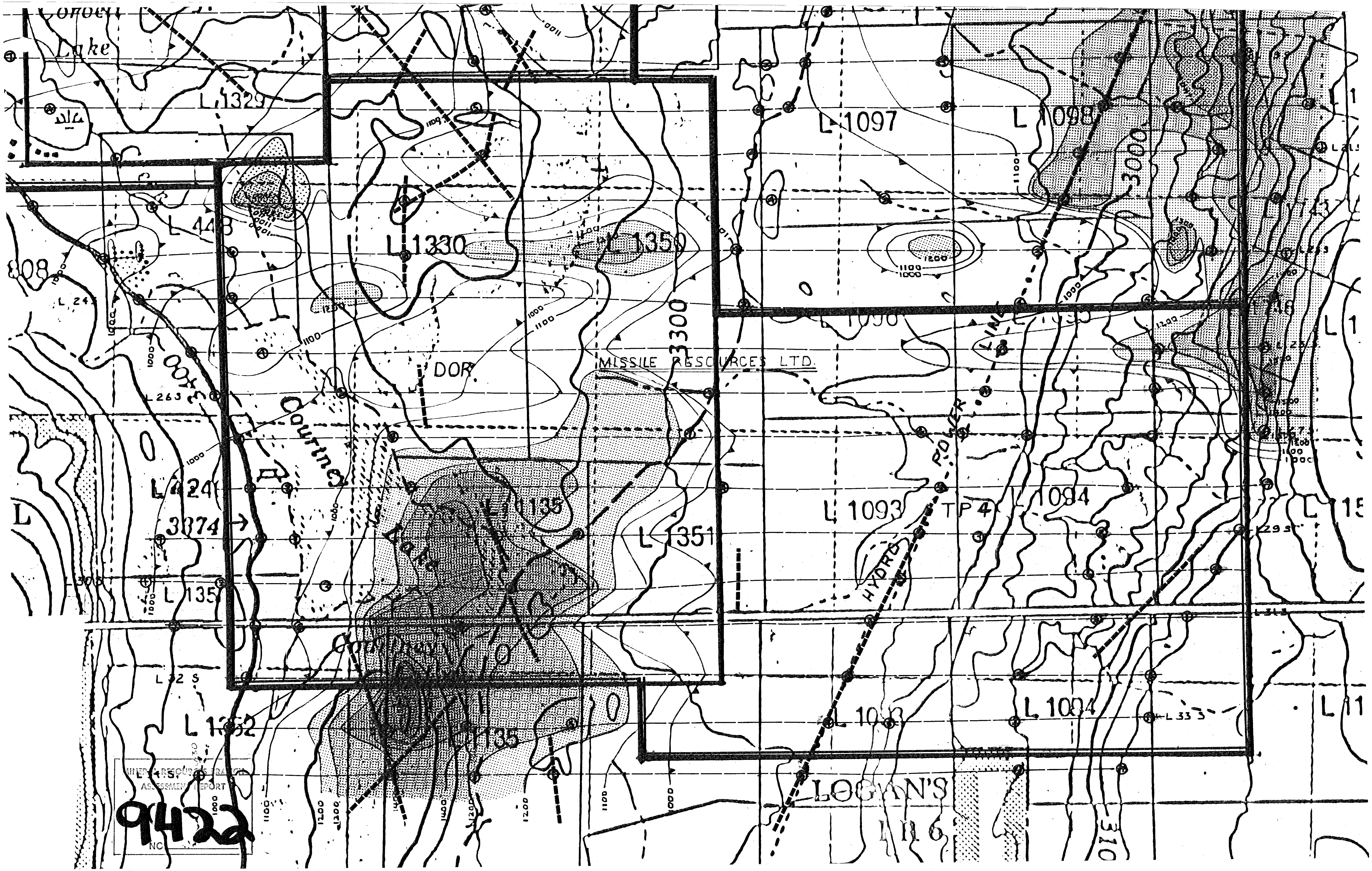
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3000
Courtney
L 1135
L 1351
3874 →
L 1093
TP 4
L 1094
HYDRO POWER LINE
L 29 S
L 31 S
L 32 S
L 33 S
L 1004
LOGAN'S
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9422
NC
1000
1100
1200

PROVINCIAL FOREST

NICOLA PROVINCIAL FOREST

HAMILT

RESE

Hamilton Lake

Lundbom Lake

Marquart Lake

Garcia Lake

Mount Nicola

Corbett Lake

Mendus Lake

Courtney Lake

LOGAN'S

TP 1

TP 2

TP 3

TP 4

MERRITT AIRBORNE PROJECT-81

COURTENAY - LUNBOM LAKE AREA

NICOLA - M.D. - B.C.

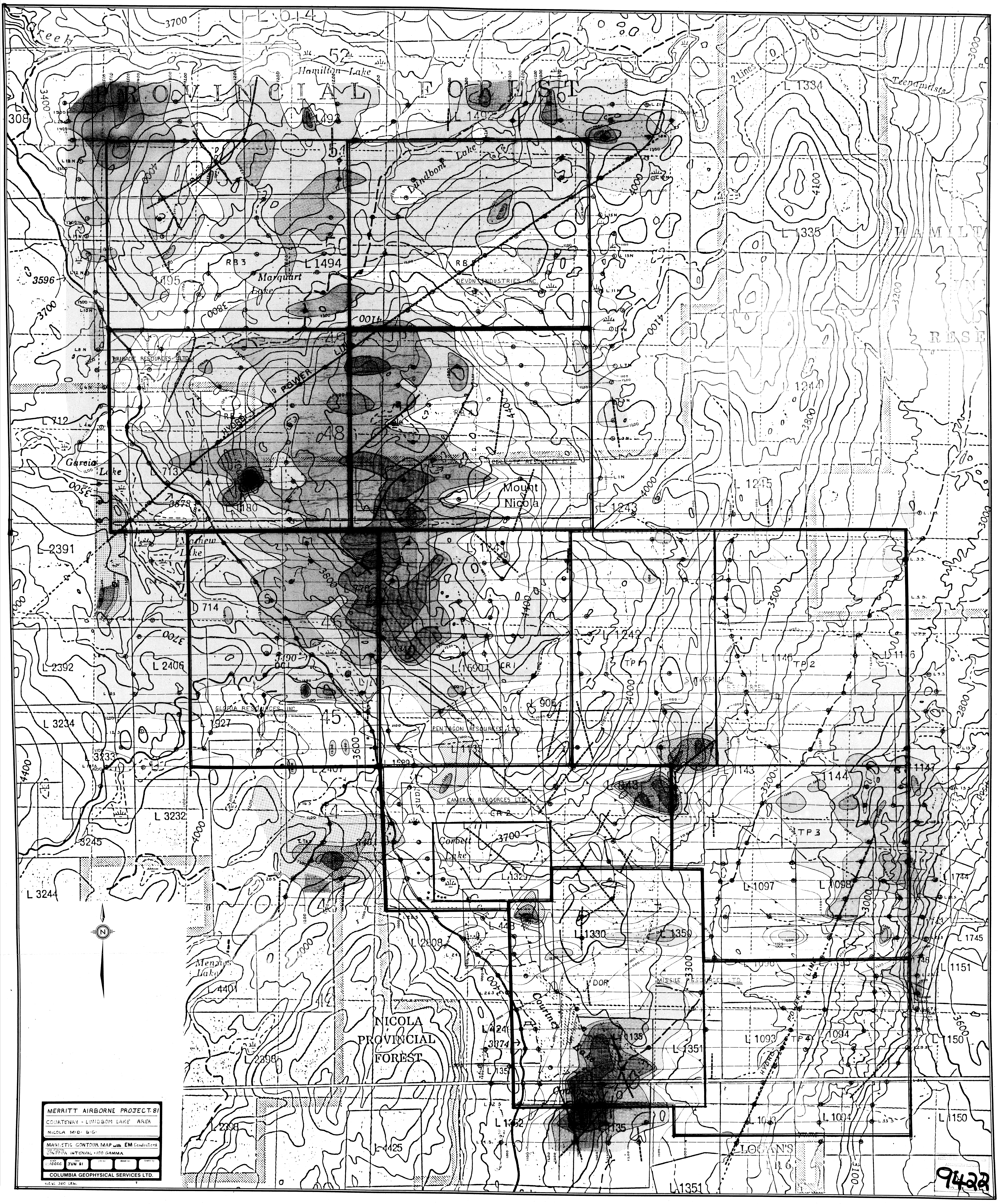
FLIGHTLINE MAP

type of survey

scale 1:10000 | date JUN 81 | job no. | sheet no. 1 | drawn by M.F.M.

COLUMBIA GEOPHYSICAL SERVICES LTD.

9422



PROVINCIAL FOREST
Hamilton Lake
Lundbom Lake
Marquart Lake
Garcia Lake
Mount Nicola
Corbett Lake
Menzies Lake
Courtney Lake
NICOLA PROVINCIAL FOREST
LOGAN'S I.R. 6
Teenqnilsts
HAMILTON RESERVE
POWER LINE
HYDRO POWER LINE
2 Lines
BRIGADE RESOURCES LTD.
DEVON INDUSTRIES INC.
CELESTE RESOURCES LTD.
GLORIA RESOURCES INC.
PENTAGON RESOURCES LTD.
SUTHERLAND RESOURCES LTD.
CAMERON RESOURCES LTD.
MISSILE RESOURCES LTD.
RB 3
RB A
CR 1
CR 2
TP 1
TP 2
TP 3
TP 4
DOR
3596
3578
3245
3374
L 1492
L 1494
L 1495
L 1334
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L 1240
L 1245
L 1243
L 1242
L 712
L 713
L 714
L 1180
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L 4425
MERRITT AIRBORNE PROJECT 81
COURTENAY - LUNDBOM LAKE AREA
NICOLA M.D. B.C.
MAGNETIC CONTOUR MAP with EM Conductors
CONTOUR INTERVAL = 100 GAMMA
scale 1:10000
date JUN 81
job no
sheet no
drawn by
COLUMBIA GEOPHYSICAL SERVICES LTD.
total 360 LKm.
9422