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RAM EXPLORATIONS LTD.

GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL
REPORT
AURIC CLAIM GROUP
KAMLOOPS MINING DIVISION
SOUTHEASTERN BRITISH COLUMBIA

Latitude = $51^{\circ} 22' 35.5''$
Longitude = $120^{\circ} 00' 11.9''$
NTS = 82M12W

SUB-RECORDER RECEIVED	
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Mineral Claims
Auric - 6336(8)

Owner / Operator = Orwell Resources

Reported By = C. von Einsiedel, BSc.

Submitted July 30, 1986

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,213

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**TERMS OF REFERENCE
AND
INTRODUCTION**

TERMS OF REFERENCE

Orwell Resources Ltd. was initially incorporated to evaluate the Auric Claim Group, a grassroots, volcanogenic massive sulfide prospect located near Clearwater in south central British Columbia. Results of preliminary exploration (Magrum, 1984 and 1985) outlined several coincident geochemical and geophysical anomalies which warranted more detailed evaluation.

On behalf of Orwell Resources, Ram Exploration carried out Phase 2 Exploration as recommended in the initial property report by M. Magrum.

INTRODUCTION

Preliminary exploration programs consisted of reconnaissance scale geochemical and geophysical surveys along 200 meter spaced E-W lines over the entire property. Phase 2 was designed to follow up co-incident EM - geochemical targets located in the northeast quadrant of the claim group.

The project was carried out in stages between November 5, 1985 and May 25, 1986 and included ; detailed grid establishment; detailed geologic mapping; close spaced VLF-EM and magnetometer surveys; and, detailed geochemical sampling in the vicinity of geochemically anomalous areas described in the initial property report.

**SUMMARY
AND
RECOMMENDATIONS**

SUMMARY

Orwell Resources Ltd. holds a 100% interest in the Auric Mineral Claim consisting of 20 claim units recorded the Adams Lake District, Kamloops Mining Division. The property was staked in June 1984 after the British Columbia Department of Mines published updated geologic maps of the Adams Lake / Clearwater District. Updated information (Schiarizza, 1983) shows that the metavolcanic rocks which host the recently discovered Rea Gold Prospect (volcanogenic massive sulfide deposit located approximately 40 km south of Clearwater) are correlatable with metavolcanic rocks which underly the eastern half of the Auric Claim Group.

During 1984 and 1985, Rea Gold and Falconbridge Copper carried out an extensive exploration program and based on preliminary diamond drilling results, announced probable reserves of approximately 200,000 tons grading; 0.20 oz/ton gold, 5.0 oz/ton silver and 10% combined base metals.

Preliminary exploration carried out on the property (Magrum, 1984 and 1985), identified several targets most important of which are co-incident zinc and silver soil geochemical anomalies associated with a discontinuous, northeast trending conductive zone in the northeast quadrant of the property.

Phase 2 exploration was designed to evaluate the significance of this anomaly and to identify targets for follow up trenching.

A total of 18 line km of surveyed, flagged grid were established in the northeast quadrant to provide control for detailed VLF-EM, magnetometer, geochemical and geological surveys. Geologic mapping identified broad, carbonate-sericite alteration zones (up to 100m wide) associated with disseminated pyrite and minor pyrrhotite which are roughly co-incident with the northeast trending EM - geochemical anomaly identified during previous exploration. Samples collected from this zone (see Table 1) returned negligible base metal concentrations, however this alteration is similar to that typically developed at the periphery of many base metal deposits. It is recommended that continued exploration include a brief examination of the Rea Gold Prospect as an aid to identifying alteration features which may be associated with this type of massive sulfide mineralization.

Geophysical surveys (VLF-EM) confirmed results of earlier reconnaissance surveys (Magrum, 1985) and outlined a broad, discontinuous conductive zone associated with the alteration zone noted above. Magnetometer surveys show that the alteration zone exhibits a slightly elevated magnetic response (approximately 50 gammas variation from background readings within the Eagle Bay Formation). In addition, the magnetometer survey delineated a narrow, north - northwest trending magnetic high (approximately 50m wide over a strike length of 150m with readings up to 200 gammas above background) in the north central part of the grid. Detailed geologic mapping and prospecting in the vicinity of this anomaly identified narrow, northwest trending quartz veins. One sample of which (TK-7-86) returned base metal values of 0.13% lead and 0.05% zinc. These values are low however, the presence of base metal mineralization associated with an elevated magnetic response is considered a favourable indicator.

To evaluate the northeast trending geochemical anomaly identified during preliminary surveys, a total of 246 soil samples were collected at 25 meter intervals along 50 meter spaced lines in the south central part of the survey area. Assay results were generally low however several scattered anomalous silver and zinc values (up to 167 ppm zinc, 0.6 ppm silver) were identified within the alteration zone.

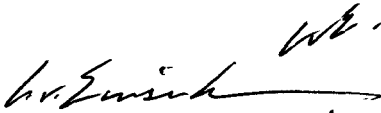
RECOMMENDATIONS

Exploration to date of the Auric property has delineated a broad (50 to 100 meter wide) northeast trending carbonate-sericite alteration zone associated with an elevated magnetic and conductivity response in metavolcanic rocks similar to those which host recent massive sulfide discoveries (Rea Gold / Falconbridge Copper) in the Adams Lake District. Geochemical sampling and sampling of pyritized, altered volcanics within this zone returned scattered, weakly anomalous base metal values.

Although these results are considered encouraging, the low base metal values obtained from both soil and rock sampling within the altered zone suggest limited potential for a significant discovery through the use of surface trenching. The best potential to develop sulfide mineralization lies along the projected down dip extensions of the mapped alteration zones.

It is therefore recommended that the Company proceed with a modified version of the proposed Phase 3 Exploration Program described in the initial property report. Prior to commencement of diamond drilling a detailed examination of alteration features associated with the Rea Gold Prospect should be carried out. If the alteration features identified on the Auric property closely resemble those developed at the Rea Gold Prospect a limited diamond drilling program would be warranted.

Respectfully Submitted,


C. A. von Einsiedel
Consulting Geologist

**COST
ESTIMATE**

COST ESTIMATE

The following cost estimate incorporates new information available since the initial property report by Magrum, (1984).

Phase 3A

Geological mapping and examination of Rea Gold prospect.

Geologist	- 10 days @ 250.00	2,500.00
Assistant	- 10 days @ 175.00	1,750.00
Travel, Accommodation		1,500.00
Assays, allow 20 @ 25.00		500.00
Report		2,000.00
	Total	\$8,250.00

Phase 3B

Supervision Reports		7,500.00
Diamond Drilling		
-allow 400m @ 125.00/m		50,000.00
Contingency		10,000.00
	Total	\$67,500.00

The revised cost estimate for Phase 3A and 3B exploration programs is \$75,750.00.

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SECTION 1

GENERAL

1.1 Property Description

(please refer to figure no.s 1 and 2)

The property of Orwell Resources Ltd. is located in central British Columbia approximately 10 km southeast of the settlement of Clearwater. The claims cover the east and west facing slopes of McDougal Creek which joins the North Thompson River approximately 5 km north of the claim boundary.

The claims are accessible by gravel logging road (inactive area) along Hascheak Creek to McDougal Creek and then via 4X4 track for a distance of roughly one kilometer onto the northeastern part of the claim.

The Auric Claim is situated on a moderately steep north facing slope locally breaking into cliffs in the south central part of the claim. Elevations on the property range from 3,500' at the north boundary to 5,500' on the southern boundary.

The detailed grid established in the northeast corner of the claim group straddles the nose of a north facing ridge and is bounded on the west by McDougal Creek and extends to the eastern border of the claim.

The property consists of one claim block comprising twenty claim units recorded in the Kamloops Mining Division on map sheet 82M/12W.

Claim Name	No. of Units	Record No.	Registered Owner	Expiry Date
Auric	20	6336(8)	Orwell Resources	August 8, 1988

1.2 Exploration History

(please refer to figure no. 3)

Prior to the discovery of volcanogenic massive sulfide mineralization in the Adams Lake District the volcano-sedimentary sequence (Eagle Bay and Fennel Formation) which underlies the Auric Claim was not considered an important host of significant base or precious metal mineral deposits.

Previous exploration in the Clearwater area was confined to limited surficial and underground exploration of northeast and west-northwest trending quartz carbonate vein structures. These structures are generally narrow (less than 1 to 2m wide) and are typically mineralized with silver and base metal sulfides.

In 1984, Rea Gold Ltd. announced the discovery of significant massive sulfide mineralization and in 1984 optioned the project to Falconbridge Copper. Geologic mapping by Schiarizza (1980 to 1983; released in 1984) showed that the stratigraphic unit which hosts the Rea Gold prospect can be correlated with a similar sequence which extends approximately 15 km north of the Baldy Batholith, a felsic intrusive which truncates the southern part of the Eagle Bay and Fennel Formations.

During 1984, the staking rush which followed Rea Gold's discovery was extended north of the Baldy Batholith on the basis of Schiarizza's stratigraphic correlation.

Since 1984 considerable exploration has been carried out by major companies including Newmont Mines, Esso Minerals, Noranda and Falconbridge Copper, however, results of this work have not been published to date.

With the exception of the recent geological, geochemical and geophysical surveys carried out by Orwell Resources no recorded exploration has been carried out on the Auric Claim group.

1.3 Phase 2 Exploration Program

The principal objective of Phase 2 exploration was to determine the significance of geophysical and geochemical anomalies identified during previous exploration:

The project included:

- 1) Establishment of 18 line km of blazed cut lines stationed by tight chain survey at 25m intervals.
- 2) 18 line km of VLF-EM survey (Instrument: Geonics EM-16).
- 3) 18 line km of magnetometer survey (Instrument: MP-2 proton precession magnetometer - corrected by standard loop method).
- 4) Detailed geologic mapping of the northeast corner of the Auric Claim block (approximately 1.5 square km mapped at a scale of 1:1000 and reconnaissance geologic mapping of the entire claim block).
- 5) Detailed fill in geochemical surveys in the south central and south western parts of the detail grid area. A total of 246 samples were collected at 25m intervals along 50 meter spaced E-W lines. Of these 143 were assayed by ICP for a suite of 28 major and trace elements. Copper, silver, lead and zinc values are plotted in figure 5 and 6 and additional elements are attached as Appendix A.

2.1 Regional Geology and Exploration Model

(please refer to figure no. 3)

The geology of the Clearwater/Adams Lake area was recently described by Schiarizza (1981) and consists of NW striking, Mississippian Age meta-volcanic and meta-sedimentary rocks. To the south of the project area, this sequence has been intruded by Cretaceous Monzonites which form the Baldy Batholith. Still further south, the same volcano-sedimentary package is repeated and forms the Eagle Bay and Fennel Formations.

Within the Clearwater area, these units have been broadly folded along a north plunging axis and are cut by NE and NNW trending faults.

The Fennel and Eagle Bay Formations comprise a thick sequence of volcanics varying from intermediate (Fennel Formation) to felsic (Eagle Bay Formation) in composition. This sequence is analagous to that which most known volcanogenic massive sulfide deposits and is presently considered an excellent exploration target.

Published information concerning the Rea Gold Prospect is limited however, the most important feature is the unusually high precious metal contents (up to 0.20 oz/ton Au and 5.0 oz/ton Ag) associated with the mineralization. This feature combined with the tonnage potential of this type of deposit (several million tons) make the Eagle Bay Formation a particularly attractive exploration target.

Secondary exploration targets are northeast and north-northwest trending lead-zinc-silver bearing quartz carbonate veins however, the tonnage potential of this type of deposit is limited (generally less than 100,000 tons).

2.2 Property Geology

To assist with evaluating the coincident EM-geochemical anomaly located in the northeast corner of the property, detailed geologic mapping and prospecting were carried out.

A total of 14 float and outcrop samples were collected and assayed by ICP for a suite of 28 major and trace elements.

Outcrop areas, structural information and rock sample locations are shown in figure no. 4, rock sample descriptions are included in Table 1 with assay results listed in Appendix B.

The map area is underlain entirely by volcanoclastic units of the Eagle Bay Formation. Detailed mapping shows that these rocks may be subdivided into several distinct units which have been crosscut by later felsic dyke rocks.

Unit 1 (volcanoclastics) has been subdivided into 5 sub units primarily on the basis of fragment size. Unit 2 and 3 are felsic dyke rocks which were noted in the south central area of the grid.

Two areas of potential economic interest were identified:

Area 1 - Carbonate-sericite alteration zone.

This zone has been traced along a northeast axis from the south central to the northeastern part of the detail grid. Alteration minerals including variably developed carbonate and sericite combined with disseminated pyrite and pyrrhotite distinguish rocks within this zone from adjacent unaltered volcanoclastics.

Float and bedrock samples collected from this zone returned negligible or low silver and base metal values (see Appendix B) however, the similarity between the observed alteration features and alteration features typically associated with massive sulfide deposits indicate some potential for sulfide mineralization in a down dip direction.

An alternative interpretation is that the alteration features noted above are associated with a northeast trending fault structure mapped by Schiarizza (1980-82) (please refer to figure no. 3). According to Schiarizza this fault structure terminates before reaching the alteration zone however it is possible that the structure persists and that the observed alteration resulted from hydrothermal activity along the fault.

The fact that alteration minerals are pervasive over a large area (up to 100 meters wide) is important and the observed alteration zone is therefore considered the most important target for continued exploration.

Area 2 - NNW Trending quartz carbonate veins

Narrow (10 - 30 cm wide) quartz carbonate veins containing minor galena and sphalerite were noted on line 1+00 S at station 2+90 W. The veins are irregular, striking from 320 to 350 degrees W with a steep northeasterly dip. Assay results confirm the presence of base metals (Sample TK 07-86 returned 0.13% Pb and 0.05% Zn) however precious metal contents are insignificant.

Considering the low tonnage potential of this type of deposit this occurrence does not warrant additional evaluation.

3.1 VLF-EM Survey

(please refer to figure no.s 7 and 8)

The VLF-EM instrument (Geonics EM-16) measures the secondary electromagnetic fields generated by buried conductive bodies when subjected to a primary electromagnetic (radio) signal. The primary signal is provided by high frequency military (radio) transmitters located in the United States.

Preliminary reconnaissance scale VLF-EM surveys carried out on the Auric Claim identified weak to moderate, north-northeast and northwest trending conductive zones which were interpreted as possible shear or fault structures. The most important of these is a discontinuous, weakly conductive northwest trending zone located in the northeast corner of the claim block.

This structure is coincident with scattered anomalous zinc and silver soil geochemical values and was the principal target of Phase 2 exploration.

To evaluate this zone a total of 18 line km of close spaced VLF-EM survey was carried out along E-W profile lines. In phase profiles are plotted in figure no. 7 with conductor axes shown as bold dashed lines. Contoured Fraser filtered data is shown in figure no. 8.

3.2 Magnetometer Survey

(please refer to figure no. 9)

During the initial stages of this evaluation carbonate-sericite altered volcanics containing disseminated pyrite and minor pyrrhotite were noted within the detail grid area. The presence of pyrrhotite within the alteration zone suggested the possibility of an elevated magnetic response a feature which should assist mapping the zone in overburden covered areas.

The magnetometer survey was carried out using an MP2 proton precession instrument. A total of 18 line km (25 meter stations) of survey were conducted along E-W profile lines within the detail grid in the northeast corner of the property. Data was corrected for diurnal variation (by standard Loop methods) and is plotted and contoured in figure no. 9. Results are described in section 3.3.

3.3 Results

The VLF-EM survey identified several conductive zones (please refer to figure no. 7 and 8) however most of these trend NNW, lack a coincident geochemical expression and are interpreted as lithologic breaks (geologic contacts). The highly conductive, north trending zone identified along the western edge of the grid (station 7+00 west to 8+00 west, line 10+00 south to 0+00) is interpreted as a topographic effect induced by the proximity of McDougal Creek.

The most important anomalies are discontinuous, weakly conductive areas which can be traced from station 5+00 W on line 10+00 S to station 3+00 E on line 0+00.

Results of the magnetometer survey are difficult to interpret (possibly due to the inherent problems associated with the standard loop correction method) however several areas of interest are indicated.

The pyrrhotite mineralization associated with the mapped alteration zones was the principal target of this survey and therefore high magnetic values are considered anomalous. Areas of elevated magnetic response occur in the north western part of the detail grid and intermittently along the NE trending alteration zones described in section 2.2.

Average readings within the alteration zones are approximately 30 - 50 gammas above background however, as noted above, more accurate correction methods will be required to accurately map the surface expression.

4.1 Survey Method

Reconnaissance scale geochemical surveys (200 meter spaced lines with 50 meter station intervals) conducted during preliminary exploration of the claim group (Magrum, 1984) identified several weakly anomalous silver-zinc and silver-lead-zinc soil geochemical anomalies.

Geophysical surveys (Magrum, 1985) identified a northeast trending conductive zone coincident with elevated zinc and silver concentrations in the northeast corner of the property. To evaluate these anomalies detailed sampling (50 meter spaced lines sampled at 25 meter intervals) was carried out in the southern part of the detail grid area.

A total of 246 "B" horizon samples were collected, 143 of which were assayed by ICP for a suite of 28 major and trace elements. Copper, silver, zinc and lead concentrations are plotted in figure no. 5 and 6 with additional elements tabled in Appendix B.

4.2 Results

(please refer to figure no.s 5 and 6)

Silver and base metal concentrations within the survey area were generally low however, scattered, weakly anomalous results were obtained within the anomalous zone delineated by the reconnaissance survey.

Although these results indicate little potential for the discovery of significant surface mineralization it is important to note that all anomalous results were from within the carbonate-sericite alteration zone described in section 2.2.

This alteration zone is similar to that developed at the periphery of many massive sulfide deposits and therefore the weakly anomalous results are considered encouraging.

REFERENCES

The following maps and publications were used in preparing this report:

BCDM Preliminary Map No. 53

Geology of the Clearwater and Barriere River areas.
1981 Geology by P. Schiarizza et. al.

SCHIARIZZA, R.A., Clearwater Area, 1981

Geology and fieldwork in B.C. BCDM

PRETO et al, 1980 Barriere Lakes, Adams Plateau Area

Geology and fieldwork in B.C. BCDM

MAGRUM, M. 1984

Geologic and Geochemical Report on the Auric Claim.
Orwell Resources Prospectus.

MAGRUM, M. 1985


Geophysical report on the Auric Claim. Phase 1
Exploration. Orwell Resources Prospectus.

CERTIFICATE

I, Carl von Einsiedel, of the City of Vancouver, British Columbia hereby certify that:

1. I am a consulting geologist with offices at 210 - 470 Granville Street, Vancouver, British Columbia.
2. I hold a degree of Bachelor of Science in Geology from Carleton University in Ottawa, April, 1982.
3. I have completed undergraduate and post graduate courses in exploration geochemistry, geostatistics and geophysics.
4. I have been employed in my profession for the past eight years.
5. This report is based on results of geological, geochemical and geophysical surveys carried out on the property between November 5, 1985 and May 20, 1986.
6. I have no interest either direct or indirect, nor do I intend to receive any such interest in the property covered in this report or in the shares of Orwell Resources.

Dated at Vancouver, British Columbia this 4th day of November, 1986.



C. von Einsiedel, BSc.
Consulting Geologist

STATEMENT OF COSTS

(Auric Project: Geological, Geochemical and Geophysical surveys
- November 5, 1985 to May 25, 1986)

November 5 to November 26, 1985 (Project abandoned due to heavy
snow conditions)

Work Completed: detailed geologic mapping, detailed grid
establishment in northeast quadrant - approx 18 line kilometers,
partial completion geophysical surveys.

Mobilization / Demob	\$ 750.00
Personnel	
-Geologist (C. von Einsiedel) 5 days @ 300.00	1,500.00
-Engineer (M. Magrum) 1 day @ 400.00	400.00
-Technicians (2) 21 days @ 225.00	9,450.00
Equipment Rentals	
-4x4 - 21 days @ 70.00	1,470.00
-fuel, insurance	890.00
-chainsaw, misc. field supplies	500.00
Geophysical Equipment	
-VLF-EM (Geonics EM-16) - 21 days @ 35.00	735.00
-Magnetometer (MP-2) - 21 days @ 30.00	630.00
Accommodation / Meals	
-48 man days @ 45.00	2,160.00
Data Processing	
-technician - 2 days @ 175.00	350.00
sub-total	\$18,835.00

April 3, 1986 to April 7, 1986 (Project area innaccessible due to
break up conditions)

Work Completed: Nil

Mobilization / Demob.	\$ 750.00
Personnell	
Geologist (C. von Einsiedel) -5 days @ 300.00	1,500.00

Technicians (2)
-5 days @ 225.00 2,250.00

*Note: Personnell charged @ 1/2 rate due to standby conditions

Personnel @ 50% 1,937.50

Equipment Rentals
-4x4 - 5 days @ 70.00 350.00
-fuel, insurance 375.00

Geophysical Equipment
-VLF-EM (Geonics EM-16) - 5 days @ 35.00 175.00
-Magnetometer (MP-2) - 5 days @ 30.00 150.00

Accommodation / Meals
-15 man days @ 45.00 675.00

sub-total \$ 4,412.50

May 13, 1986 to May 25, 1986 (Project Completion)
Work Completed: completion of geophysical surveys, completion of geologic mapping and completion of soil geochemical survey.

Mobilization / Demobilization \$ 750.00

Personnel
-Geologist (T. Kraft)
10 days @ 300.00 3,000.00
-Technicians (2)
12 days @ 225.00 5,400.00

Equipment Rentals
-4x4 - 12 days @ 70.00 840.00
-fuel, insurance 650.00

Geophysical Equipment
-VLF-EM (Geonics EM-16) - 12 days @ 35.00 420.00
-Magnetometer (MP-2) - 12 days @ 30.00 360.00

Geochemical Survey
-misc. supplies 250.00
-sample preparation - 286 @ 2.50 715.00
-143 26 element (ICP) determinations @ 9.50 1,358.50

Accommodation / Meals
-34 man days @ 45.00 1,530.00

Data Processing / Report Preparation
-Geologist (C. von Einsiedel)
6 days @ 300.00 1,800.00
-Drafting (Terry's Drafting Service) 1,400.00
-Secretarial, printing, reproductions 550.00

Recording Costs
-1986/1987 assessment fees 210.00

sub-total \$ 19,233.50

Total costs incurred to complete Phase 2 Exploration of the Auric
Mineral Claim - \$ 42,581.00.
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TABLE 1
Rock Sample Descriptions

<u>Sample No.</u>	<u>Rock Type</u>	<u>Description</u>
TK-01-86	Altered Tuff (outcrop sample)	<ul style="list-style-type: none"> - felsic composition, silicified - very fine-grained to aphanitic - less than 1% fine diss. pyrite - abundant diss. blebs of limonite throughout
TK-02-86	Altered Tuff (outcrop sample)	<ul style="list-style-type: none"> - felsic composition - moderately sericitic - strongly carbonated - moderately foliated - 2 - 3% fine to medium-grained disseminated pyrite - abundant limonite blebs throughout
TK-03-86	Intermediate Tuff (outcrop sample)	<ul style="list-style-type: none"> - intermediate composition - chloritized - moderately foliated - 3 - 5% diss. pyrite up to 4mm - moderately carbonatized
TK-04-86	Felsic Dyke (?) (outcrop sample)	<ul style="list-style-type: none"> - aphanitic - 1% fine dissem. pyrite - felsic - found near altered tuff - 2 - 3% blebs of limonite throughout - grab sample
TK-05-86	Altered Tuff (outcrop sample)	<ul style="list-style-type: none"> - fine-grained to aphanitic - moderately carbonatized - felsic to intermediate - 1% diss. pyrite
TK-06-86	Altered Tuff (?) (float sample)	<ul style="list-style-type: none"> - fine-grained to aphanitic - 1 - 2% fine dissem. pyrite - felsic to intermediate - 5 - 10% mafic, chloritized clasts (?) up to 1 cm

<u>Sample No.</u>	<u>Rock Type</u>	<u>Description</u>
TK-07-86	Qtz.-Carb.-Vein (channel sample)	<ul style="list-style-type: none">- vein hosted in altered lapilli tuff- approx. 2 - 4 cm in width- strike, dip: 310/50°NE- numerous narrow veins in area- less than 1% galena- up to 2% fine dissem. pyrite- veins situated along foliation surfaces
TK-08-86	Quartz Vein (channel sample)	<ul style="list-style-type: none">- chip sample across vein- approx. 8 cm wide- hosted in intermediate tuff- less than 1% dissem. pyrite- strike, dip: 325/50°NE
TK-09-86	Intermediate Tuff (outcrop sample)	<ul style="list-style-type: none">- slightly altered- chloritized- moderately foliated- 2 - 3% fine dissem. blebs of limonite- moderately carbonatized
TK-10-86	Altered Tuff	<ul style="list-style-type: none">- see TK-02-86
TK-11-86	Altered Tuff	<ul style="list-style-type: none">- See TK-02-86
TK-12-86	Quartz Vein (float sample)	<ul style="list-style-type: none">- one of many large quartz boulders in area- milky white quartz- less than 1% fine dissem. pyrite- abundant limonite on fracture surfaces
TK-13-86	Altered Tuff (outcrop sample)	<ul style="list-style-type: none">- see TK-02-86- foliation 287/46°N
TK-14-86	Intermediate Tuff (outcrop sample)	<ul style="list-style-type: none">- chloritized- 2 - 3% dissem. pyrite- weakly to moderately carbonatized

VANGEOCHEM LAB LIMITED

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 BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH:(604)251-5656

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR SN,MN,FE,CA,P,CR,MG,BA,PD,AL,NA,K,W,PT AND SR. AU AND PD DETECTION IS 3 PPM.
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -- NOT ANALYZED

COMPANY: RAM EXPLORATION
 ATTENTION:
 PROJECT: ORWELL

REPORT#: 860189PA
 JOB#: 860189
 INVOICE#: 860189NA

DATE RECEIVED: 86/06/11
 DATE COMPLETED: 86/06/16
 COPY SENT TO:

ANALYST *W. P. Jones*

PAGE 1 OF 1

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
TK-1-86	.5	.46	5	ND	50	6	3.19	.4	13	34	99	2.38	.15	1.53	490	1	.01	18	.05	13	ND	ND	ND	1	182	ND	ND	47
TK-2-86	.2	.56	ND	ND	55	ND	3.33	.1	10	23	55	3.17	.15	1.09	595	1	.01	17	.04	12	ND	ND	ND	ND	179	ND	ND	56
TK-3-86	.2	2.44	3	ND	97	5	2.97	.2	19	55	71	3.48	.16	1.60	579	2	.01	47	.04	17	ND	ND	ND	ND	141	ND	3	42
TK-4-86	.4	.44	9	ND	58	ND	3.78	.3	11	37	24	3.51	.17	.87	658	ND	.01	17	.04	13	ND	ND	ND	ND	154	ND	ND	40
TK-5-86	1.0	.23	ND	ND	620	ND	2.87	.1	11	47	38	1.15	.23	.06	830	3	1.33	8	.11	36	ND	ND	ND	ND	769	ND	ND	20
TK-6-86	1.1	.24	ND	ND	300	ND	.72	.4	6	13	80	1.28	.23	.02	319	ND	1.75	ND	.05	31	ND	ND	ND	1	316	ND	ND	21
TK-7-86	.6	.16	ND	ND	162	ND	13.19	8.7	4	35	25	.79	.07	.10	1800	1	.01	3	.07	1307	ND	ND	ND	ND	4304	3.4	ND	491
TK-8-86	.4	.02	5	ND	13	ND	.47	.1	1	115	5	.38	.05	.02	276	1	.01	ND	.01	16	ND	ND	ND	1	33	ND	ND	5
TK-9-86	.2	1.80	ND	ND	761	ND	1.50	.2	15	38	60	2.45	.19	1.41	444	ND	.01	23	.20	14	ND	ND	ND	ND	248	ND	3	55
TK-10-86	.6	.35	4	ND	146	ND	1.90	.1	6	47	15	1.39	.21	.08	539	1	.42	3	.11	14	ND	ND	ND	2	256	ND	ND	13
TK-11-86	.7	.28	5	ND	158	ND	.87	.1	7	40	15	1.06	.18	.12	306	2	.60	5	.10	20	ND	ND	ND	ND	134	ND	ND	11
TK-12-86	.5	.05	ND	ND	37	ND	.31	.1	3	155	30	.79	.07	.01	196	2	.01	4	.01	34	ND	ND	ND	ND	27	ND	ND	10
TK-13-86	.4	.38	ND	ND	126	ND	6.73	.1	8	43	34	2.73	.15	.52	786	1	.01	11	.06	21	ND	ND	ND	ND	197	ND	ND	30
TK-14-86	.5	.6E	3	ND	62	ND	5.39	.1	3	28	3	1.14	.20	.48	651	1	.07	10	.07	26	ND	ND	ND	ND	1124	ND	ND	18
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

VANGEOCHEM LAB LIMITED

MAIN OFFICE: 1521 PEMBERTON AVE. N.VANCOUVER B.C. V7P 2S3 PH:(604)986-5211 TELEX:04-352578
 BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH:(604)251-5656

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR SM,MN,FE,CA,P,CR,MG,BA,PD,AL,NA,K,W,PT AND SR. AU AND PD DETECTION IS 3 PPM.
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -= NOT ANALYZED

COMPANY: RAM EXPLORATIONS
 ATTENTION:
 PROJECT: N/G

REPORT#: 860165PA
 JOB#: 860165
 INVOICE#: 860165NA

DATE RECEIVED: 86/06/04
 DATE COMPLETED: 86/06/09
 COPY SENT TO:

ANALYST *Ca...*

PAGE 1 OF 7

SAMPLE NAME	AG PPM	AL I	AS PPM	AU PPM	BA PPM	BI PPM	CA I	CD PPM	CO PPM	CR PPM	CU PPM	FE I	K I	MG I	MN PPM	MO PPM	NA I	NI PPM	P I	PB PPM	PD PPM	PT PPM	SB PPM	SM PPM	SR PPM	U PPM	W PPM	IN PPM
L5+00S 0+25E	.1	2.72	ND	ND	113	ND	.17	.2	10	15	24	2.68	.04	.32	197	2	.01	13	.08	26	ND	ND	ND	ND	21	ND	ND	59
L5+00S 0+75E	.1	1.79	ND	ND	141	ND	.16	.1	8	12	18	2.32	.04	.22	288	1	.01	10	.07	26	ND	ND	ND	ND	20	ND	ND	44
L5+00S 1+25E	.1	1.52	ND	ND	61	ND	.05	.1	5	9	10	1.68	.04	.15	231	1	.01	6	.06	17	ND	ND	ND	ND	8	ND	ND	43
L5+00S 1+75E	.1	1.58	5	ND	134	ND	.12	.2	12	14	84	2.67	.08	.35	170	2	.01	20	.07	35	ND	ND	ND	ND	20	ND	ND	50
L5+00S 2+25E	.2	1.18	6	ND	108	3	.08	.2	6	17	9	1.27	.05	.19	192	1	.01	18	.07	17	ND	ND	ND	1	13	ND	ND	55
L5+00S 2+75E	.1	1.33	3	ND	151	ND	.15	.1	6	11	11	1.56	.05	.27	359	1	.01	11	.08	17	ND	ND	ND	ND	22	ND	ND	46
L5+00S 0+30W	.3	1.97	6	ND	111	ND	.08	.2	11	13	18	2.62	.07	.24	321	2	.01	11	.08	27	ND	ND	ND	ND	14	ND	ND	55
L5+00S 0+50W	.1	1.60	ND	ND	88	ND	.10	.1	7	10	11	2.00	.05	.17	566	1	.01	8	.08	19	ND	ND	ND	ND	12	ND	ND	46
L5+00S 1+00W	.3	.88	9	ND	39	ND	.06	.1	4	7	5	1.48	.04	.10	227	1	.01	3	.03	19	ND	ND	ND	3	7	ND	ND	30
L5+00S 1+50W	.1	1.18	6	ND	142	3	.14	.2	8	10	8	2.04	.04	.22	1068	1	.01	7	.08	20	ND	ND	ND	ND	15	ND	ND	66
L5+00S 2+00W	.4	2.52	ND	ND	260	ND	.11	.2	8	7	7	1.67	.05	.07	1606	1	.01	10	.59	16	ND	ND	3	ND	12	ND	ND	57
L5+50S 0+25E	.6	1.41	9	ND	102	ND	.15	.1	8	11	27	2.62	.07	.34	264	1	.01	12	.12	21	ND	ND	ND	ND	23	ND	ND	47
L5+50S 0+75E	.2	.88	12	ND	56	ND	.15	.1	4	8	5	1.50	.04	.13	374	1	.01	3	.10	20	ND	ND	ND	2	12	ND	ND	33
L5+50S 1+25E	.3	.96	13	ND	109	3	.07	.1	5	9	12	1.72	.06	.22	215	1	.01	6	.03	22	ND	ND	ND	3	16	ND	ND	38
L5+50S 1+75E	.3	.46	11	ND	21	ND	.04	.1	2	7	2	.79	.03	.08	63	1	.01	2	.01	9	ND	ND	ND	3	8	ND	ND	17
L5+50S 2+25E	.1	1.25	13	ND	145	ND	.12	.1	9	11	31	1.86	.08	.40	173	1	.01	14	.03	24	ND	ND	3	ND	21	ND	ND	37
L5+50S 2+75E	.4	1.27	10	ND	103	ND	.08	.2	6	7	7	1.31	.04	.10	592	1	.01	6	.13	15	ND	ND	ND	1	10	ND	ND	56
L5+50S 0+25W	.3	2.22	7	ND	129	ND	.16	.2	10	14	21	2.72	.08	.29	375	1	.01	13	.10	30	ND	ND	ND	ND	16	ND	ND	50
L5+50S 0+75W	.4	2.67	4	ND	73	ND	.11	.2	8	13	12	2.41	.06	.20	286	1	.01	9	.12	21	ND	ND	4	ND	12	ND	ND	50
L5+50S 1+25W	.1	1.33	13	ND	87	ND	.24	.1	8	10	14	2.11	.05	.22	753	1	.01	7	.12	21	ND	ND	ND	1	24	ND	ND	37
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
L5+50S 1+50W	.1	.69	8	ND	60	ND	.08	.1	4	8	7	1.82	.02	.16	243	1	.01	4	.10	16	ND	ND	ND	4	12	ND	ND	29
L5+50S 2+00W	.1	.08	7	ND	14	ND	.05	.1	4	6	3	1.31	.02	.04	147	ND	.01	3	.01	4	ND	ND	ND	5	6	ND	ND	20
L5+50S 2+50W	.1	1.23	7	ND	49	ND	.06	.1	9	12	16	1.58	.02	.20	137	1	.01	10	.05	26	ND	ND	ND	5	14	ND	ND	30
L5+50S 3+00W	.1	.88	11	ND	56	ND	.06	.2	6	11	9	1.48	.03	.24	203	1	.01	7	.07	20	ND	ND	ND	ND	13	ND	ND	38
L6+00S 0+25E	.1	2.41	3	ND	74	ND	.06	.1	8	12	22	2.18	.07	.26	149	1	.01	11	.05	27	ND	ND	4	ND	11	6	ND	41
L6+00S 0+75E	.1	2.49	3	ND	84	ND	.10	.1	11	15	32	2.41	.08	.30	216	1	.01	13	.08	30	ND	ND	3	ND	14	3	ND	53
L6+00S 1+25E	.1	2.43	ND	ND	103	ND	.15	.1	10	27	32	3.18	.08	.60	244	1	.01	25	.06	30	ND	ND	ND	ND	21	ND	4	62
L6+00S 1+75E	.1	1.33	6	ND	71	ND	.12	.1	6	9	7	1.95	.05	.15	370	1	.01	6	.10	20	ND	ND	ND	2	11	ND	ND	43
L6+00S 2+25E	.1	2.50	3	ND	122	3	.13	.1	9	17	21	2.58	.06	.34	164	1	.01	12	.19	42	ND	ND	ND	ND	18	ND	ND	62
L6+00S 2+75E	.1	1.67	5	ND	142	3	.12	.1	9	11	15	2.04	.08	.26	203	2	.01	14	.08	29	ND	ND	ND	ND	22	ND	ND	47
L6+00S 0+25W	.1	1.33	6	ND	119	ND	.17	.1	6	10	13	1.72	.04	.19	892	1	.01	14	.05	17	ND	ND	ND	1	18	ND	ND	37
L6+00S 0+75W	.1	2.12	ND	ND	75	ND	.10	.3	8	14	16	2.22	.06	.32	165	2	.01	9	.06	20	ND	ND	ND	ND	16	ND	ND	44
L6+00S 1+25W	.3	2.25	3	ND	76	5	.20	.2	9	15	14	2.38	.08	.30	625	1	.01	9	.11	26	ND	ND	3	1	17	ND	ND	64
L6+00S 1+75W	.5	2.29	3	ND	66	4	.10	.2	9	16	20	2.29	.06	.30	266	1	.01	11	.10	31	ND	ND	3	1	17	ND	ND	53
L6+00S 2+25W	.4	1.98	5	ND	78	ND	.08	.1	15	16	31	2.08	.08	.39	192	1	.01	18	.12	31	ND	ND	ND	1	22	ND	ND	37
L6+00S 2+75W	.2	.89	9	ND	40	3	.05	.3	4	8	7	1.31	.06	.12	107	ND	.01	4	.07	14	ND	ND	ND	1	10	ND	ND	20
L6+50S 0+00	.1	1.92	3	ND	97	4	.16	.3	9	14	29	2.36	.10	.40	394	1	.01	12	.08	22	ND	ND	3	ND	23	ND	ND	45
L6+50S 0+50E	.2	5.23	ND	ND	125	ND	.17	.3	12	16	17	3.12	.08	.25	176	2	.01	15	.16	30	ND	ND	4	ND	18	ND	ND	58
L6+50S 1+00E	.1	1.97	3	ND	121	4	.10	.2	7	16	10	2.37	.08	.20	505	1	.01	9	.10	21	ND	ND	ND	1	18	ND	ND	56
L6+50S 1+50E	.1	1.92	5	ND	112	3	.13	.1	10	15	24	2.33	.10	.39	450	2	.01	16	.08	28	ND	ND	3	ND	22	ND	ND	50
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

CLIENT: RAM EXPLORATIONS JOB#: 860165 PROJECT: N/G REPORT: 860165PA DATE: 86/06/09

PAGE 3 OF 7

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SM PPM	SR PPM	U PPM	W PPM	ZN PPM
L6+S0S 1+75E	.1	1.03	11	ND	77	ND	.08	.2	6	11	15	2.00	.02	.25	291	1	.01	8	.08	20	ND	ND	ND	1	13	ND	ND	43
L6+S0S 2+25E	.1	.89	15	ND	77	ND	.07	.1	6	10	23	1.72	.04	.44	120	1	.01	13	.02	19	ND	ND	ND	ND	17	ND	ND	33
L6+S0S 2+75E	.2	1.56	11	ND	93	ND	.07	.2	7	11	25	2.06	.04	.36	112	1	.01	13	.08	24	ND	ND	3	ND	15	ND	3	35
L6+S0S 0+25W	.1	1.98	ND	ND	71	ND	.10	.2	8	11	10	1.87	.02	.20	453	1	.01	10	.13	22	ND	ND	3	ND	17	ND	ND	36
L6+S0S 0+75W	.1	2.63	ND	ND	57	ND	.12	.2	5	12	11	1.97	.01	.17	296	1	.01	6	.17	19	ND	ND	3	ND	12	ND	ND	42
L6+S0S 1+25W	.1	3.75	ND	ND	63	ND	.06	.2	8	13	17	2.31	.01	.20	279	1	.01	9	.15	22	ND	ND	ND	ND	9	ND	ND	43
L6+S0S 1+75W	.1	2.12	9	ND	92	ND	.13	.2	9	18	17	2.33	.01	.44	518	1	.01	13	.22	28	ND	ND	ND	ND	29	ND	ND	55
L6+S0S 2+25W	.1	2.68	ND	ND	81	ND	.13	.2	11	14	23	2.13	.01	.30	274	1	.01	14	.12	26	ND	ND	ND	ND	25	ND	ND	57
L6+S0S 2+75W	.2	1.60	9	ND	93	ND	.13	.2	10	13	27	2.37	.02	.45	289	1	.01	14	.06	26	ND	ND	ND	ND	31	ND	ND	63
L6+S0S 3+25W	.1	1.58	7	ND	107	3	.11	.2	10	14	13	2.25	.02	.48	257	1	.01	14	.05	21	ND	ND	ND	ND	25	ND	ND	50
L6+S0S 3+75W	.1	1.04	10	ND	85	ND	.07	.2	5	11	16	1.75	.01	.34	232	1	.01	15	.04	22	ND	ND	ND	ND	15	ND	ND	42
L7+00S 0+00	.1	1.31	6	ND	83	ND	.12	.2	6	9	14	1.92	.01	.17	260	1	.01	9	.06	14	ND	ND	ND	2	12	ND	ND	44
L7+00S 0+50E	.1	1.41	6	ND	51	ND	.12	.1	4	9	8	1.56	.01	.14	246	1	.01	4	.04	14	ND	ND	ND	1	13	ND	ND	29
L7+00S 1+00E	.1	1.18	13	ND	73	ND	.08	.1	6	9	16	2.12	.01	.26	180	1	.01	8	.08	17	ND	ND	ND	ND	16	ND	ND	33
L7+00S 0+50W	.1	2.41	ND	ND	86	ND	.10	.2	7	14	14	2.25	.01	.26	268	ND	.01	9	.08	24	ND	ND	ND	ND	19	ND	ND	45
L7+00S 1+00W	.2	3.49	ND	ND	67	ND	.11	.2	12	18	40	2.68	.01	.44	164	1	.01	18	.10	27	ND	ND	ND	ND	19	ND	ND	42
L7+00S 1+50W	.1	1.52	4	ND	84	ND	.11	.2	7	16	15	2.11	.01	.32	179	1	.01	8	.06	22	ND	ND	ND	ND	25	ND	ND	43
L7+00S 2+00W	.1	1.86	4	ND	106	ND	.15	.2	10	16	21	2.81	.01	.56	500	ND	.01	14	.15	20	ND	ND	ND	ND	44	ND	ND	61
L7+00S 2+50W	.1	3.29	ND	ND	77	ND	.08	.2	11	15	21	2.67	.01	.32	144	ND	.01	16	.11	34	ND	ND	ND	ND	16	ND	4	63
L7+00S 3+00W	.1	1.47	6	ND	97	ND	.15	.2	8	13	14	2.04	.01	.41	286	1	.01	10	.08	17	ND	ND	ND	ND	31	ND	ND	56
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

SAMPLE NAME	AG PPM	AL Z	AS PPM	AU PPM	BA PPM	BI PPM	CA Z	CD PPM	CO PPM	CR PPM	CU PPM	FE Z	K Z	MG Z	MN PPM	MO PPM	NA Z	NI PPM	P Z	PB PPM	PD PPM	PT PPM	SB PPM	SM PPM	SR PPM	U PPM	W PPM	ZN PPM
L7+00S 3+25W	.3	3.00	3	ND	45	ND	.04	.1	5	9	7	2.09	.04	.10	98	1	.01	5	.25	23	ND	ND	ND	2	7	ND	ND	41
L7+00S 3+75W	.4	3.62	ND	ND	47	ND	.07	.1	7	9	8	1.88	.07	.11	156	1	.01	6	.17	22	ND	ND	ND	2	10	ND	ND	44
L7+50S 0+00	.1	2.08	8	ND	66	ND	.16	.1	13	18	55	3.04	.08	.75	160	1	.01	17	.08	23	ND	ND	ND	ND	37	ND	ND	38
L7+50S 0+50E	.1	1.12	8	ND	69	ND	.07	.1	7	9	8	1.47	.04	.19	424	ND	.01	6	.07	16	ND	ND	3	3	13	ND	ND	39
L7+50S 1+00E	.1	1.41	4	ND	129	ND	.16	.1	9	13	22	2.40	.06	.43	260	1	.01	11	.06	19	ND	ND	ND	ND	26	ND	ND	39
L7+50S 0+50W	.1	2.09	ND	ND	61	ND	.06	.1	5	15	12	2.37	.06	.24	236	1	.01	6	.10	23	ND	ND	3	2	11	ND	ND	38
L7+50S 1+00W	.1	2.54	ND	ND	82	ND	.10	.1	11	16	19	2.74	.08	.38	223	1	.01	12	.11	28	ND	ND	ND	2	22	ND	ND	53
L7+50S 1+50W	.4	2.25	3	ND	74	ND	.13	.1	9	10	19	1.97	.07	.17	339	1	.01	10	.11	21	ND	ND	ND	2	25	ND	ND	57
L7+50S 2+00W	.1	2.83	ND	ND	81	ND	.20	.2	15	12	13	3.09	.11	.26	279	1	.01	11	.11	31	ND	ND	ND	ND	45	ND	ND	76
L7+50S 2+50W	.1	1.37	9	ND	34	ND	.06	.1	5	6	3	1.26	.04	.07	280	1	.01	1	.08	16	ND	ND	ND	3	12	ND	ND	32
L7+50S 3+00W	.1	1.81	5	ND	88	ND	.20	.1	7	12	10	2.07	.07	.22	165	2	.01	13	.08	30	ND	ND	ND	ND	32	ND	ND	40
L7+50S 3+50W	.2	1.97	4	ND	125	ND	.22	.2	11	14	11	2.41	.08	.25	276	1	.01	10	.30	29	ND	ND	ND	2	40	ND	ND	102
L7+50S 4+00W	.1	.78	9	ND	67	ND	.05	.1	3	5	7	.93	.05	.10	103	1	.01	2	.07	14	ND	ND	ND	1	12	ND	ND	34
L8+00S 0+25W	.1	1.20	8	ND	79	ND	.10	.1	6	14	10	1.98	.07	.32	179	1	.01	7	.03	22	ND	ND	ND	3	21	ND	ND	29
L8+00S 0+75W	.3	3.95	ND	ND	91	ND	.08	.1	10	23	23	3.47	.10	.44	212	2	.01	16	.17	25	ND	ND	ND	ND	15	ND	ND	63
L8+00S 1+25W	.2	2.08	ND	ND	81	ND	.06	.2	7	10	7	2.02	.08	.17	253	1	.01	7	.12	22	ND	ND	3	2	14	ND	ND	67
L8+00S 1+75W	.2	1.31	11	ND	97	ND	.15	.2	9	10	7	1.73	.08	.20	711	1	.01	12	.10	80	ND	ND	ND	3	33	ND	ND	141
L8+00S 2+25W	.3	.88	10	ND	59	ND	.13	.1	7	9	4	1.58	.08	.17	151	1	.01	4	.04	35	ND	ND	3	4	30	ND	ND	39
L8+00S 2+75W	.5	1.72	10	ND	74	ND	.08	.1	9	11	15	2.00	.12	.24	121	2	.01	10	.05	33	ND	ND	4	1	17	ND	ND	49
L8+00S 3+25W	.6	1.73	10	ND	100	ND	.10	.2	10	16	20	2.52	.13	.43	273	2	.01	17	.08	28	ND	ND	ND	2	20	ND	ND	83
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

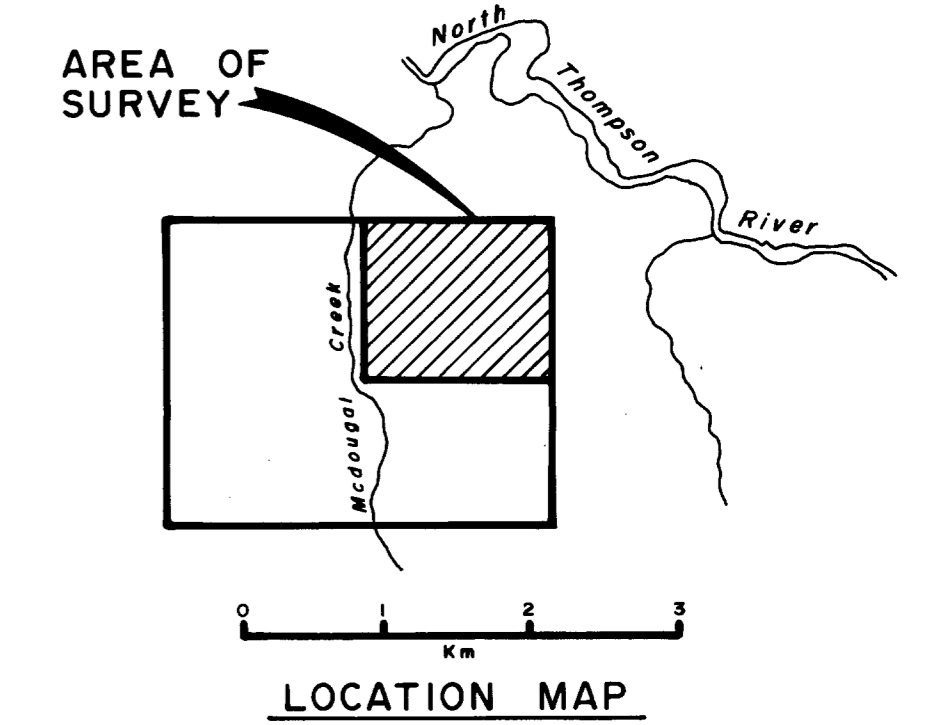
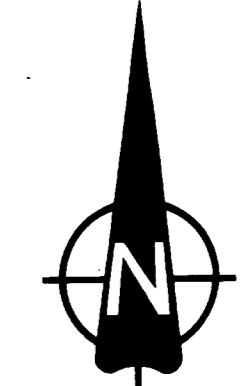
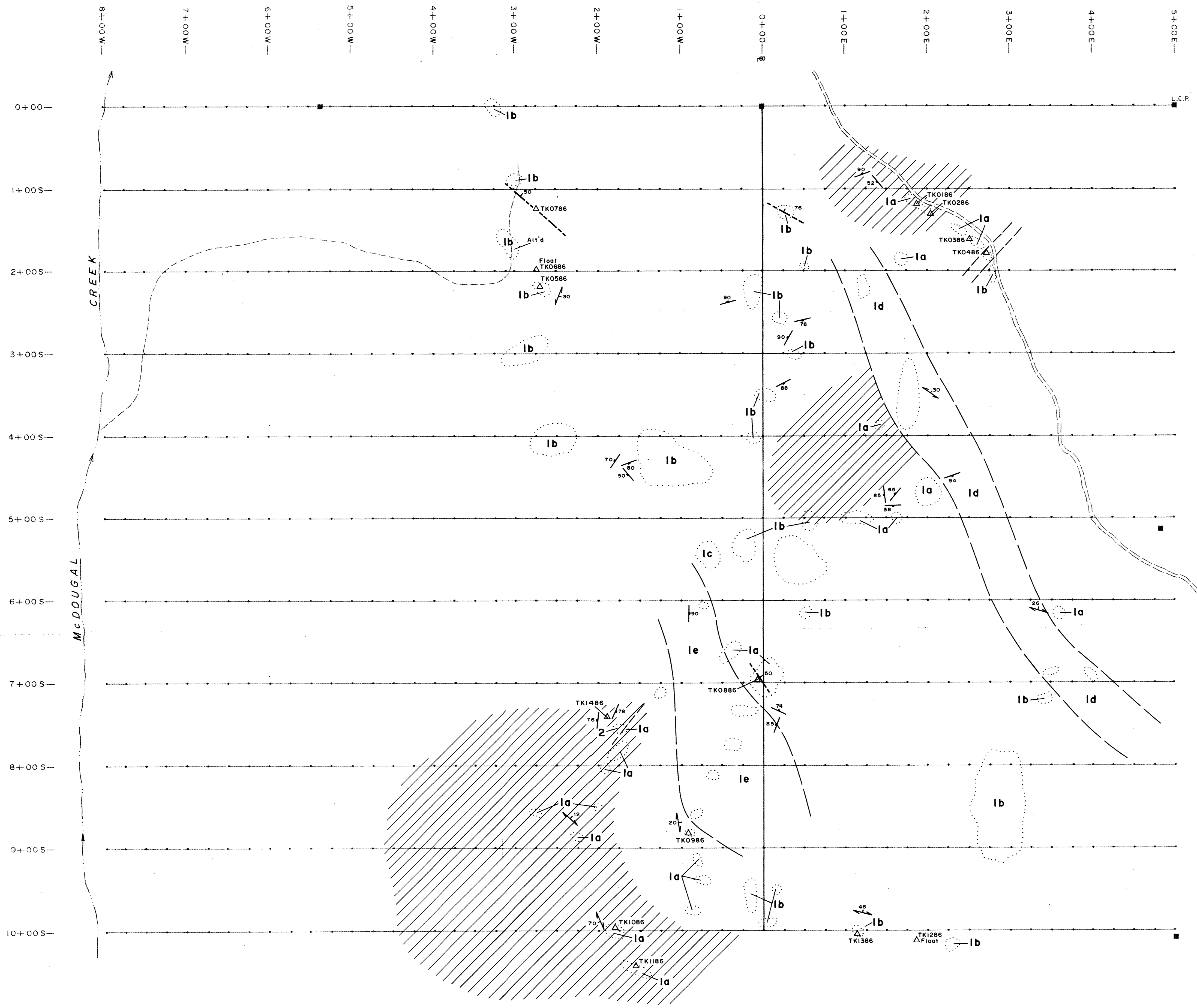
SAMPLE NAME	AG PPH	AL %	AS PPH	AU PPH	BA PPH	BI PPH	CA %	CD PPH	CO PPH	CR PPH	CU PPH	FE %	K %	MG %	MN PPH	MO PPH	NA %	NI PPH	P %	PB PPH	PD PPH	PT PPH	SB PPH	SN PPH	SR PPH	U PPH	W PPH	ZN PPH
LB+00S 3+50W	.1	1.61	ND	ND	75	ND	.04	.2	7	10	13	1.68	.04	.23	188	1	.01	8	.07	20	ND	ND	ND	ND	12	ND	ND	46
LB+00S 4+00W	.1	1.01	7	ND	56	ND	.08	.2	7	10	35	1.87	.05	.49	160	1	.01	10	.02	19	ND	ND	ND	ND	18	ND	ND	37
LB+00S 4+50W	.1	.99	9	ND	57	ND	.08	.1	7	10	17	2.07	.06	.35	144	1	.01	10	.04	24	ND	ND	ND	ND	16	ND	ND	52
LB+00S 5+00W	.1	1.42	5	ND	83	ND	.13	.1	6	10	10	1.75	.06	.34	112	1	.01	7	.04	17	ND	ND	3	ND	40	ND	ND	51
LB+50S 0+25W	.1	1.84	ND	ND	99	ND	.12	.1	10	14	37	2.42	.07	.35	334	2	.01	12	.08	28	ND	ND	ND	1	21	ND	ND	45
LB+50S 0+75W	.4	3.57	ND	ND	88	ND	.10	.1	12	15	38	2.18	.06	.24	152	1	.01	9	.10	52	ND	ND	4	ND	16	ND	4	45
LB+50S 1+25W	.3	3.29	ND	ND	401	ND	.10	.2	14	12	12	2.70	.09	.28	348	2	.01	13	.11	49	ND	ND	4	ND	25	ND	ND	75
LB+50S 1+75W	.3	2.29	ND	ND	168	ND	.19	.4	13	13	10	2.29	.08	.39	540	1	.01	10	.19	50	ND	ND	3	ND	42	ND	ND	164
LB+50S 2+25W	.3	1.52	ND	ND	77	ND	.05	.1	6	10	4	1.85	.06	.21	229	2	.01	6	.04	27	ND	ND	4	1	12	ND	ND	52
LB+50S 2+75W	.1	1.58	ND	ND	92	ND	.14	.3	8	11	9	1.88	.07	.32	217	2	.01	8	.04	41	ND	ND	ND	ND	28	ND	ND	56
LB+50S 3+25W	.3	1.31	ND	ND	67	ND	.06	.1	7	12	17	2.34	.08	.35	136	2	.01	16	.06	23	ND	ND	3	ND	14	ND	ND	64
LB+50S 3+75W	.4	3.57	ND	ND	103	ND	.13	.3	8	12	10	2.56	.07	.20	164	1	.01	8	.40	24	ND	ND	ND	ND	25	ND	ND	76
LB+50S 4+25W	.1	1.10	4	ND	52	ND	.09	.2	5	12	19	2.04	.08	.52	143	1	.01	8	.04	15	ND	ND	ND	ND	22	ND	ND	46
LB+50S 4+75W	.1	1.43	4	ND	205	ND	.24	.1	12	14	39	2.67	.11	.55	402	2	.01	12	.05	38	ND	ND	3	ND	64	ND	ND	63
LB+00S 1+00W	.1	1.63	3	ND	102	ND	.10	.1	8	10	7	1.61	.06	.22	226	1	.01	4	.04	31	ND	ND	3	1	22	ND	ND	39
LB+00S 1+50W	.1	2.47	ND	ND	132	ND	.08	.2	8	13	7	2.23	.07	.28	796	1	.01	8	.19	39	ND	ND	ND	ND	14	ND	ND	120
LB+00S 2+00W	.2	1.04	5	ND	72	ND	.05	.1	4	5	4	1.47	.04	.05	164	1	.01	1	.05	28	ND	ND	3	1	12	ND	ND	36
LB+00S 2+50W	.4	2.02	ND	ND	73	ND	.06	.1	8	7	4	1.76	.05	.08	344	ND	.01	2	.16	29	ND	ND	ND	1	12	ND	ND	43
LB+00S 3+00W	.1	2.00	3	ND	99	ND	.08	.2	8	12	24	2.42	.08	.37	192	2	.01	11	.16	23	ND	ND	ND	ND	17	ND	ND	99
LB+00S 3+50W	.1	.88	8	ND	90	ND	.09	.2	4	9	11	1.63	.07	.31	270	1	.01	5	.06	16	ND	ND	3	ND	20	ND	ND	40
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
L9+00S 3+75M	ND	2.25	3	ND	135	ND	.12	.1	9	13	15	2.19	.07	.32	249	1	.01	13	.14	26	ND	ND	ND	ND	16	ND	ND	69
L9+00S 4+25M	ND	1.09	6	ND	68	ND	.11	.1	10	14	27	2.49	.09	.50	287	2	.01	15	.04	27	ND	ND	ND	ND	24	ND	ND	58
L9+00S 4+75M	.2	1.20	5	ND	82	ND	.07	.1	5	10	9	1.92	.07	.28	140	1	.01	6	.10	27	ND	ND	ND	ND	14	ND	ND	48
L9+00S 5+25M	ND	1.71	ND	ND	115	ND	.07	.1	7	13	18	2.41	.08	.34	158	1	.01	11	.05	29	ND	ND	ND	ND	13	ND	ND	51
L9+00S 5+75M	.1	1.28	8	ND	89	ND	.10	.1	7	11	18	2.20	.07	.32	155	1	.01	10	.06	27	ND	ND	ND	ND	17	ND	ND	47
L9+50S 1+00M	.1	1.96	ND	ND	139	ND	.07	.1	9	14	11	2.39	.10	.30	236	1	.01	8	.06	33	ND	ND	ND	ND	15	4	ND	60
L9+50S 1+50M	.1	.62	6	ND	164	ND	.21	.1	8	6	4	1.33	.09	.07	1864	1	.04	ND	.08	25	ND	ND	ND	1	38	4	ND	50
L9+50S 2+00M	ND	1.09	3	ND	181	ND	.12	.1	7	8	6	1.64	.05	.13	128	1	.01	3	.03	20	ND	ND	ND	1	22	ND	ND	32
L9+50S 2+50M	.2	.91	6	ND	99	ND	.05	.1	5	5	5	1.21	.05	.06	550	ND	.01	1	.06	25	ND	ND	ND	ND	10	ND	ND	33
L9+50S 3+00M	.1	1.66	7	ND	124	ND	.11	.1	9	14	25	2.30	.09	.49	192	2	.01	13	.10	28	ND	ND	ND	ND	23	ND	ND	74
L9+50S 3+50M	ND	1.31	8	ND	86	ND	.15	.1	6	12	15	2.11	.06	.35	202	1	.01	14	.10	23	ND	ND	ND	ND	25	ND	ND	53
L9+50S 4+00M	.1	1.14	10	ND	85	ND	.15	.1	9	13	13	2.12	.10	.47	288	2	.01	10	.06	28	ND	ND	ND	ND	31	ND	ND	42
L9+50S 4+50M	.3	.93	10	ND	89	ND	.06	.1	5	9	10	1.81	.07	.26	141	1	.01	4	.06	23	ND	ND	ND	ND	13	ND	ND	40
L9+50S 5+00M	.1	1.10	11	ND	80	ND	.07	.1	7	13	27	2.50	.10	.50	179	2	.01	12	.04	28	ND	ND	ND	ND	14	ND	ND	56
L9+50S 5+50M	.5	1.86	9	ND	142	ND	.08	.1	7	10	10	2.02	.08	.21	146	1	.01	10	.09	23	ND	ND	3	ND	11	ND	ND	47
L9+50S 6+00M	.2	1.14	11	ND	171	ND	.07	.1	9	11	10	1.86	.09	.28	327	1	.01	11	.03	21	ND	ND	3	ND	13	ND	ND	46
L10+00S 3+25M	.3	2.91	ND	ND	132	ND	.14	.2	13	15	19	2.74	.10	.37	335	1	.01	15	.22	30	ND	ND	ND	ND	24	ND	ND	96
L10+00S 3+75M	.1	1.93	6	ND	416	ND	.25	.2	10	19	30	3.05	.12	.59	257	2	.01	12	.05	45	ND	ND	ND	ND	95	ND	ND	72
L10+00S 4+25M	.2	1.52	8	ND	45	ND	.03	.1	4	7	6	1.44	.05	.13	72	1	.01	4	.07	20	ND	ND	ND	ND	9	ND	ND	33
L10+00S 4+75M	.2	1.17	11	ND	91	ND	.07	.1	8	12	19	2.31	.10	.42	163	2	.01	13	.04	27	ND	ND	4	ND	14	ND	ND	47
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

CLIENT: RAM EXPLORATIONS JOB#: 860165 PROJECT: N/G REPORT: 860165PA DATE: 86/06/09

PAGE 7 OF 7

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SK PPM	SR PPM	U PPM	M PPM	ZN PPM
L10+005 5+00M	.1	1.85	ND	ND	129	ND	.08	.2	10	15	22	2.40	.07	.44	183	ND	.01	22	.07	26	ND	ND	ND	ND	15	ND	ND	62
L10+005 5+50M	.1	.81	5	ND	139	ND	.09	.3	4	9	8	1.78	.05	.26	120	ND	.01	6	.02	20	ND	ND	ND	ND	14	ND	ND	36
L10+005 6+00M	.1	1.25	3	ND	102	3	.08	.1	11	14	35	2.77	.09	.50	266	1	.01	15	.02	31	ND	ND	ND	ND	13	ND	ND	54
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1



LEGEND

- 3** Felsic dyk(?).
- 2** Dacite dyke.
- 1**
 - e Agglomerate.
 - d Block - Bomb - Lapilli - Tuff.
 - c Bomb - Lapilli - Tuff.
 - b Lapilli - Tuff. a Tuff.

SYMBOLS

- Outcrop.
- TK0186 Rock sample location.
- 37° Foliation.
- 40° Jointing.
- Geological contact (defined, approximate).
- Quartz vein.
- Altered Tuffs, Lapilli Tuffs. carbonatization, pyritization sericite alteration.
- Pb Galena
- Creek.
- Road.
- Trail.
- Claim post.

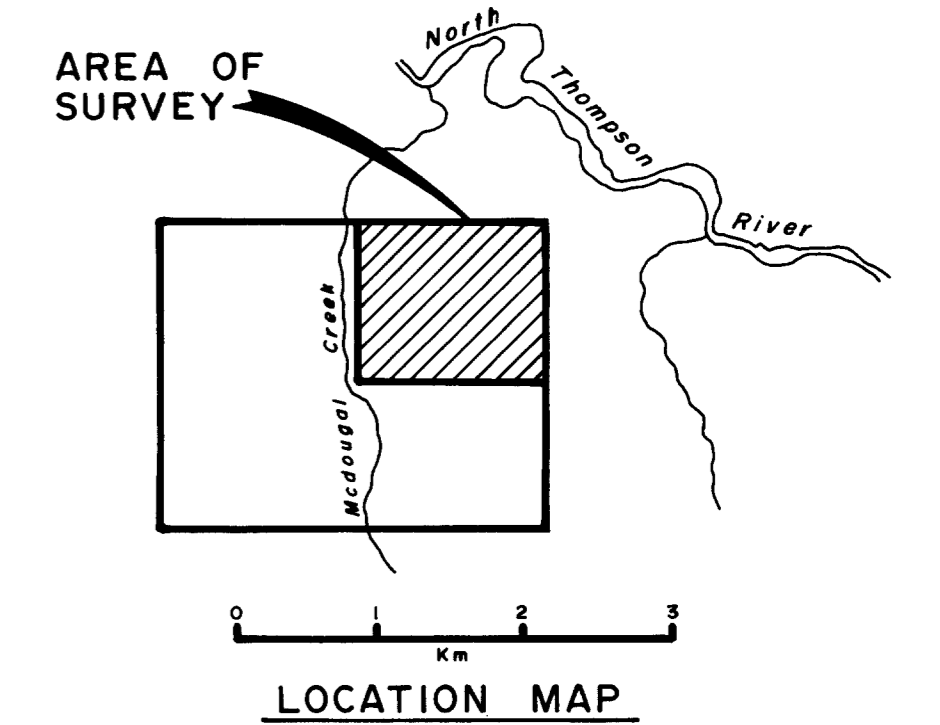
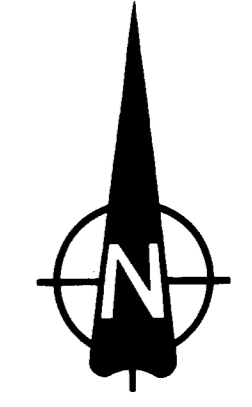
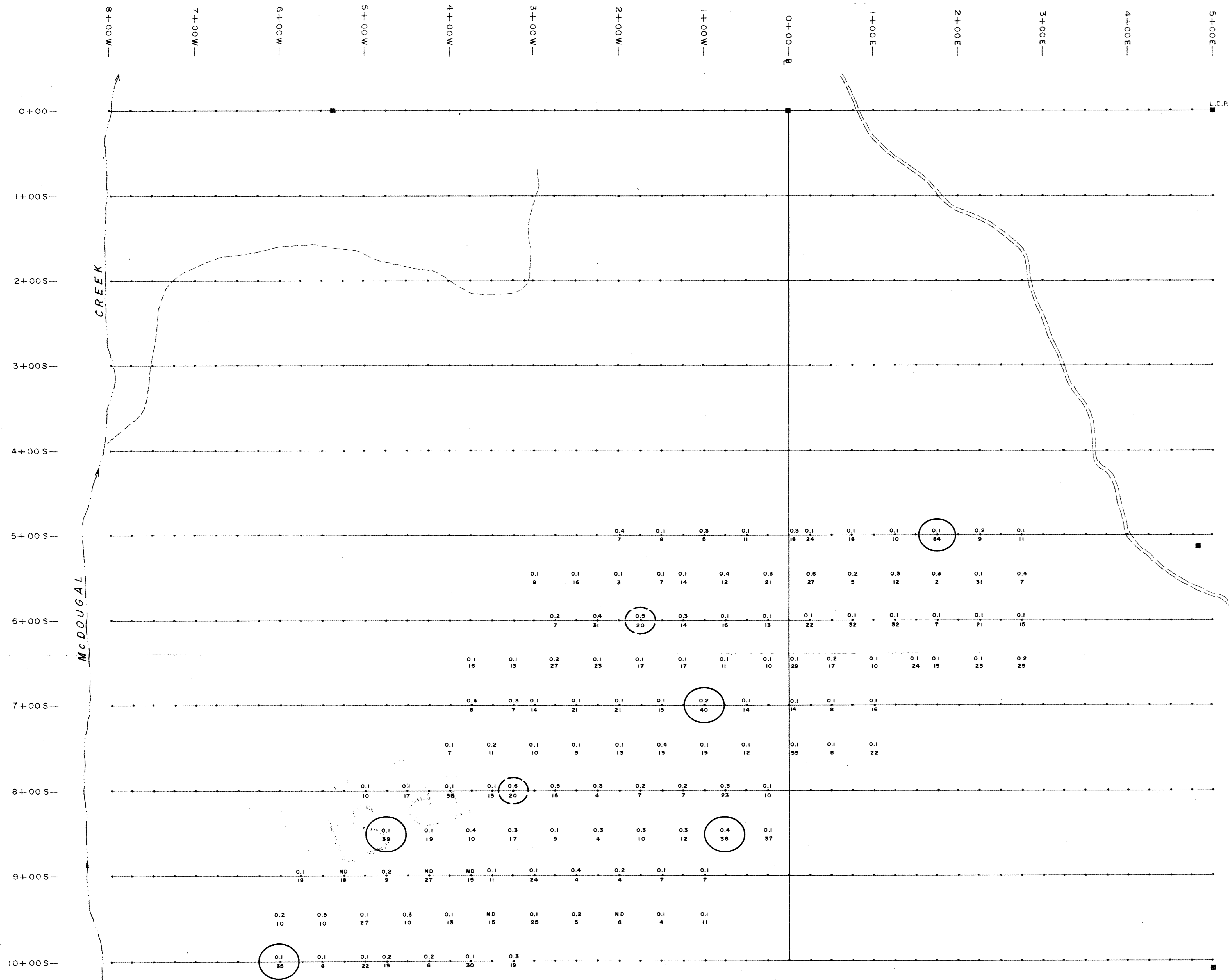


ORWELL RESOURCES LTD.
 — CLEARWATER PROJECT —
 AURIC CLAIM

**PROPERTY BASE
 &
 GEOLOGY MAP**

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

15,213



- LEGEND**
- Creek.
 - Road.
 - Trail.
 - Claim post.
 - Cu > 35 ppm.
 - Ag > 0.5 ppm.

Ag
0.4
Cu

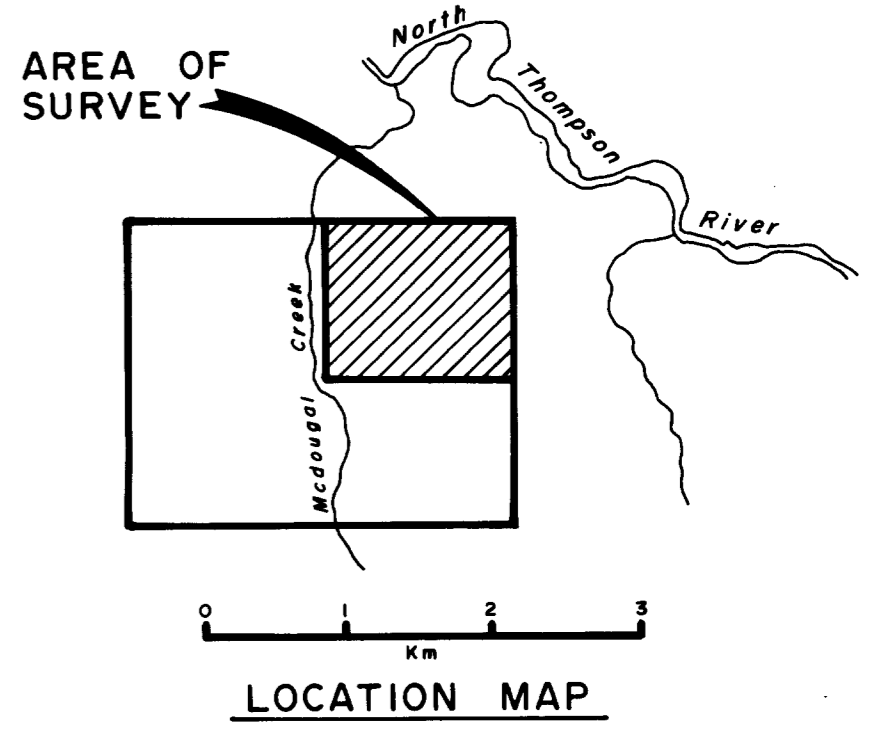
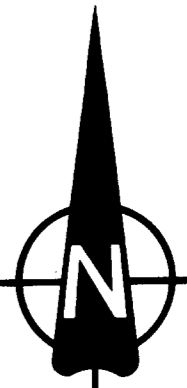
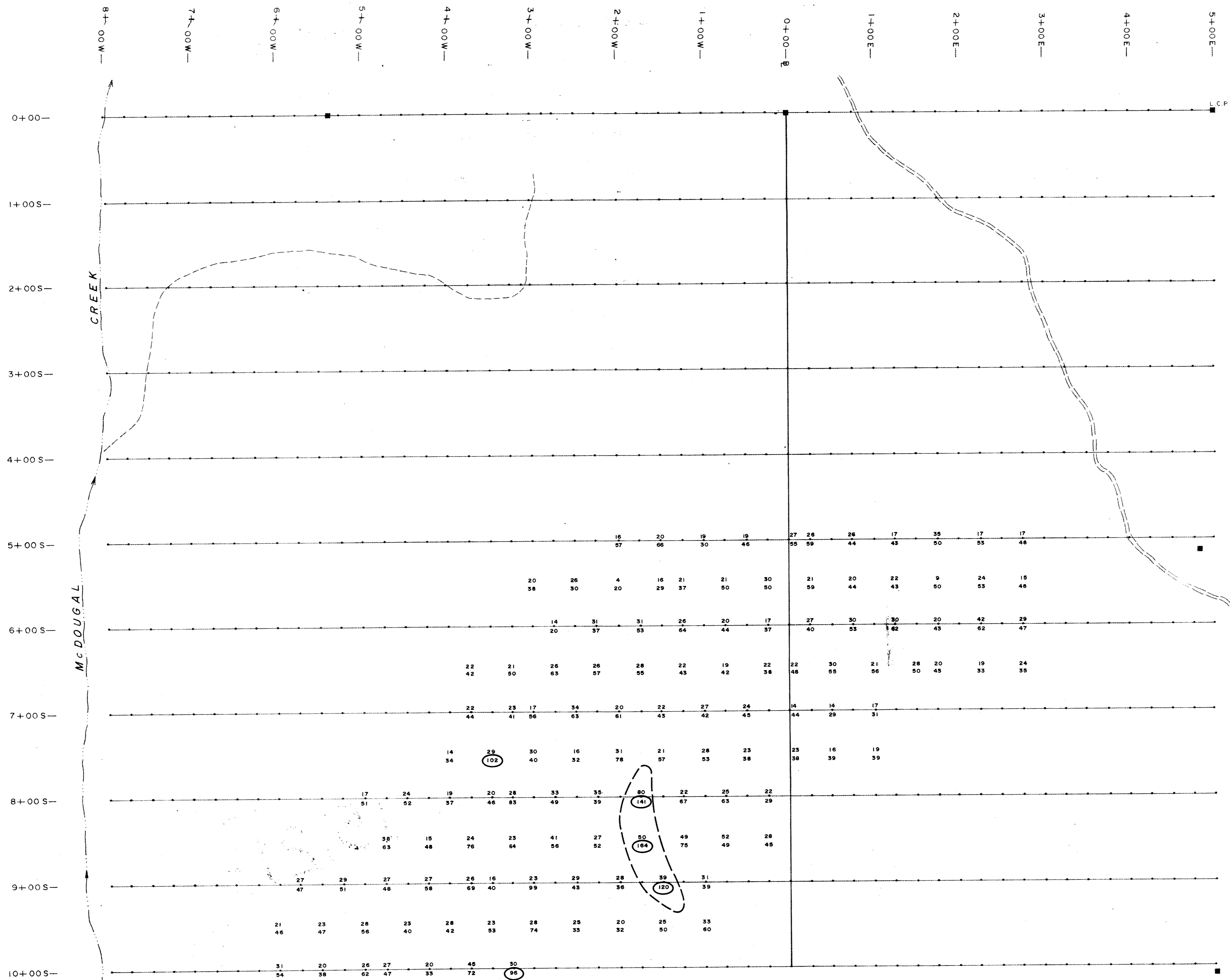
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,213

100 50 0 100 200
Meters

ORWELL RESOURCES LTD.
— CLEARWATER PROJECT —
AURIC CLAIM

Ag - Cu GEOCHEMISTRY

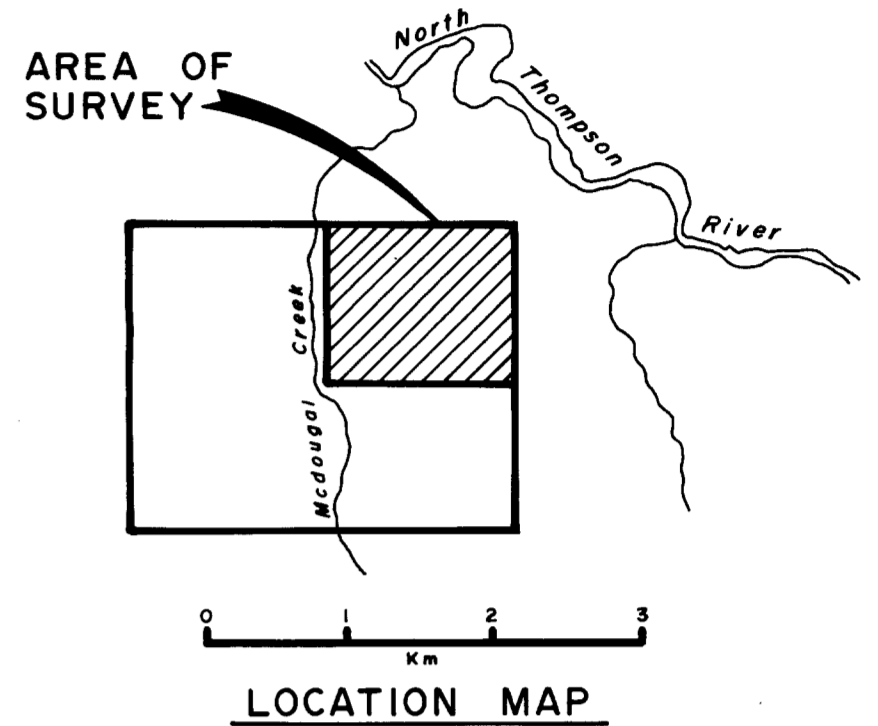
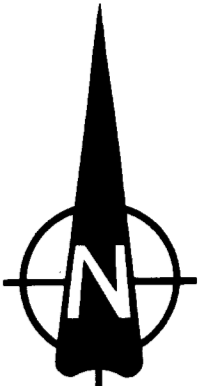
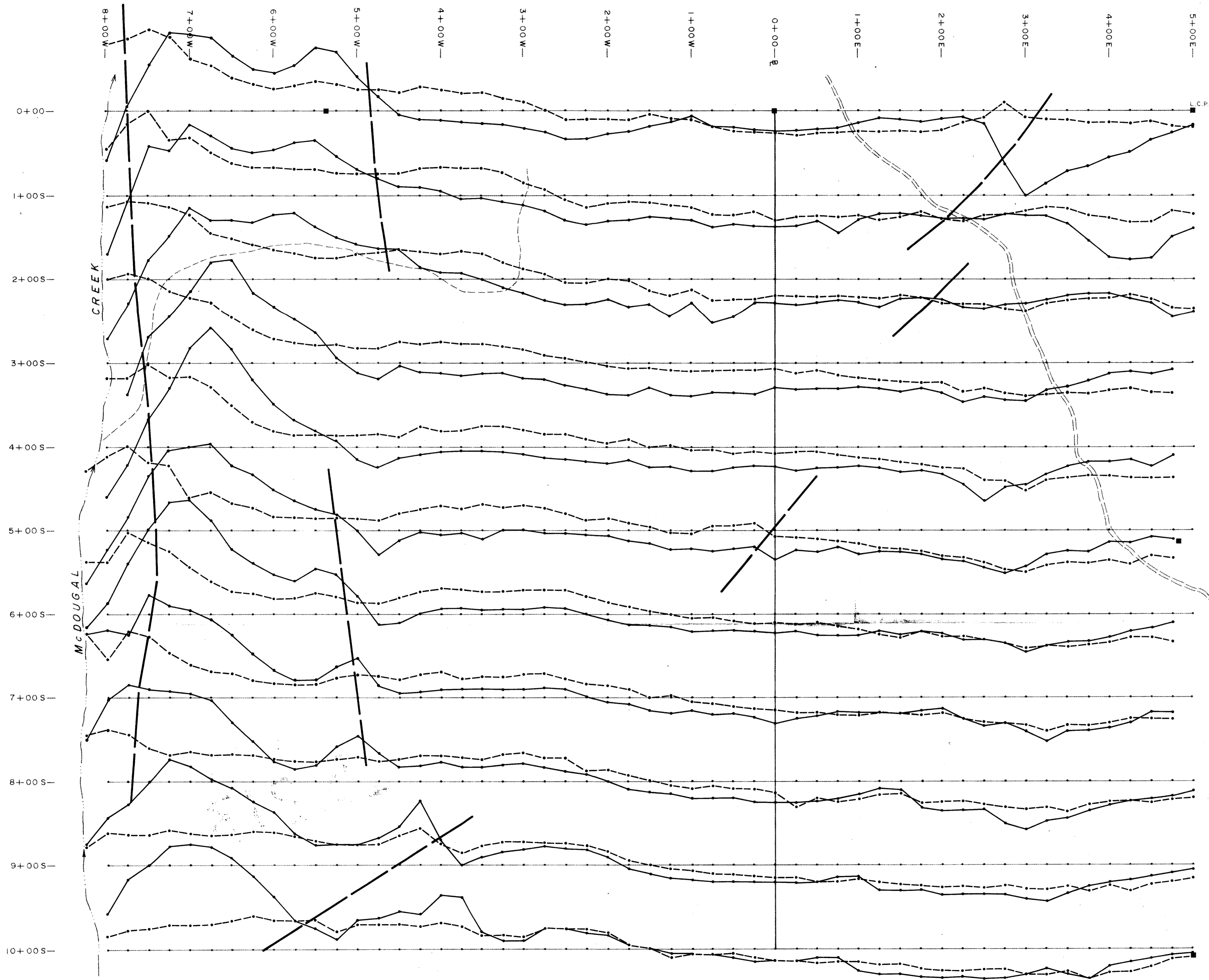


- LEGEND**
- Creek.
 - Road.
 - Trail.
 - Claim post.
 - Zn >150ppm.
 - Pb >50ppm.

Pb
 35
 Zn
 50
GEOLOGICAL BRANCH
ASSESSMENT REPORT
15,213

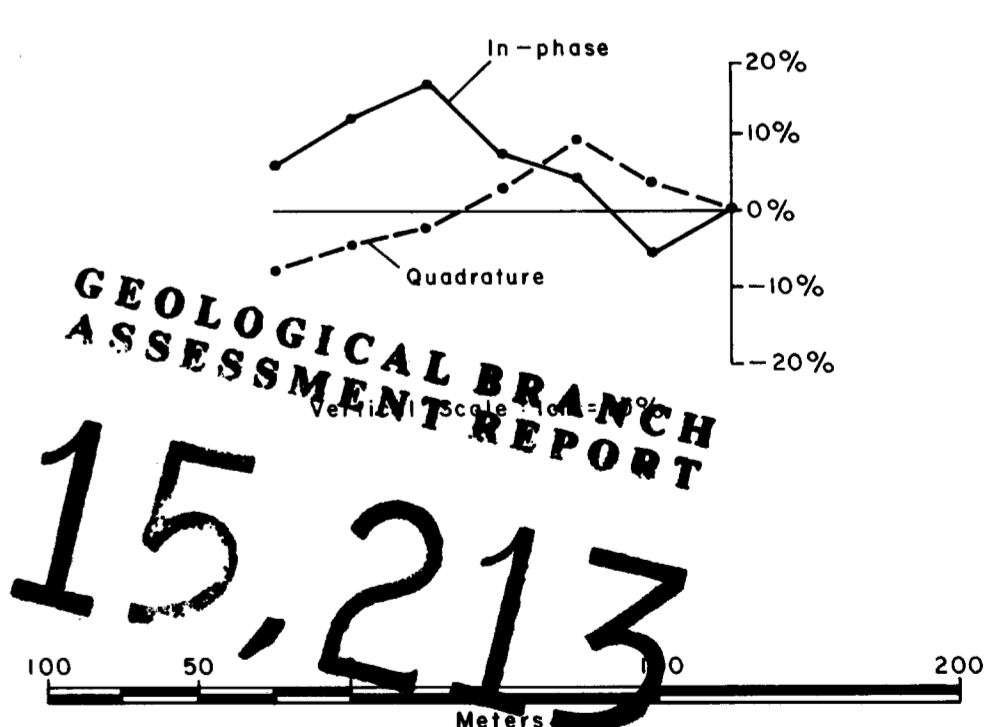
ORWELL RESOURCES LTD.
 - CLEARWATER PROJECT -
 AURIC CLAIM

Pb-Zn GEOCHEMISTRY



- LEGEND**
- ~~~~~ Creek.
 - ==== Road.
 - Trail.
 - Claim post.
 - Conductor axis.

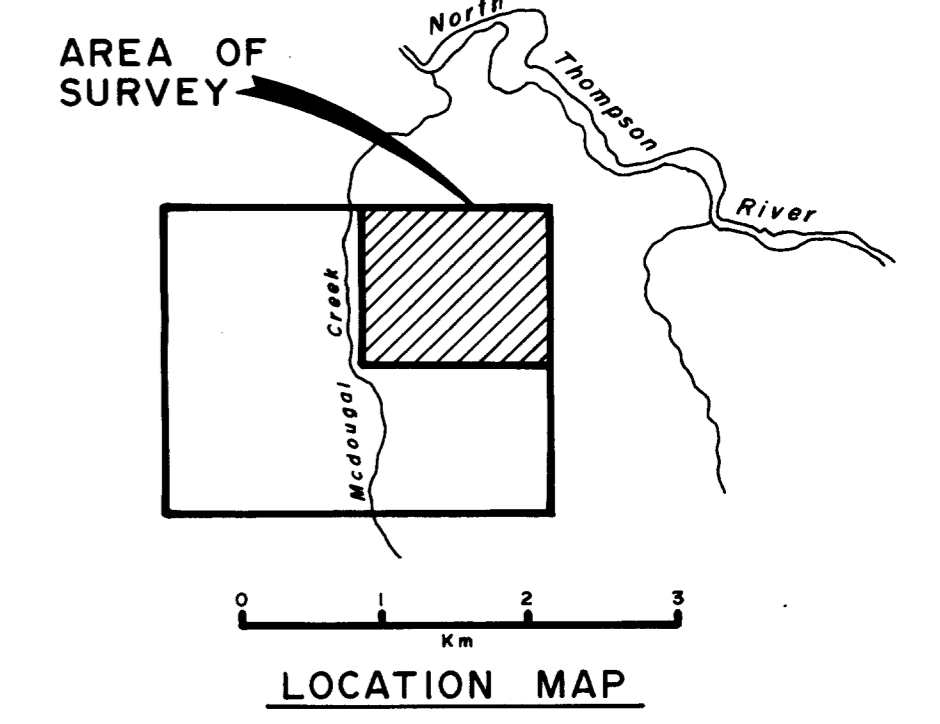
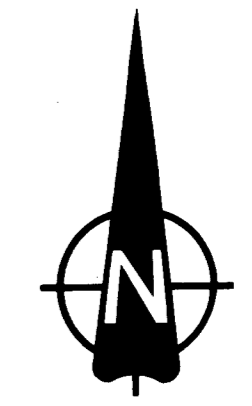
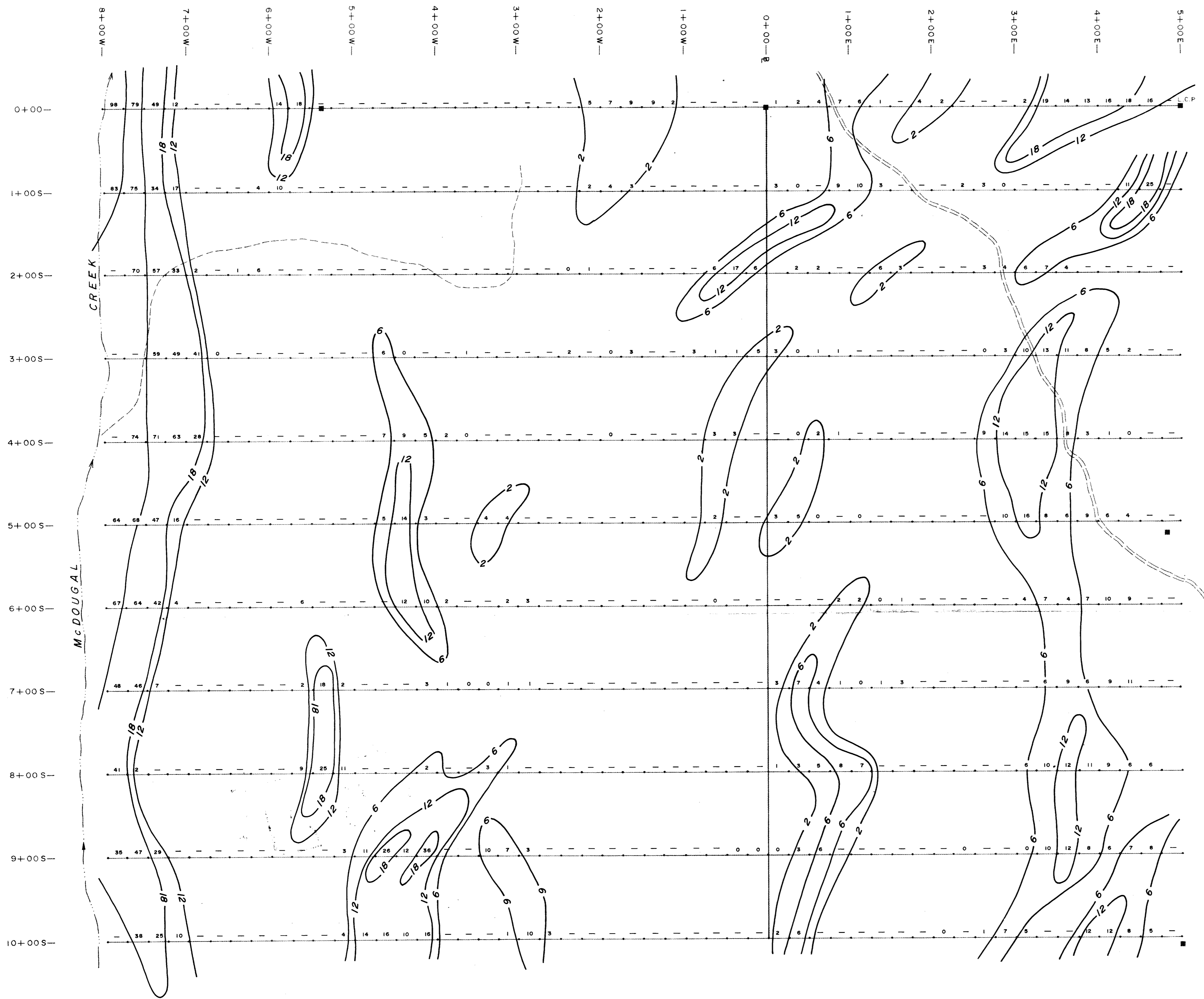
INSTRUMENT : GEONICS EM-16
 TRANSMITTER STATION : SEATTLE, WASHINGTON
 NLK - 18.6 KHZ



**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

ORWELL RESOURCES LTD.
 - CLEARWATER PROJECT -
 AURIC CLAIM

**VLF-EM SURVEY
 DIP ANGLE PROFILES**



LEGEND

- Creek.
- Road.
- Trail.
- Claim post.

INSTRUMENT : GEONICS EM-16
 TRANSMITTER STATION : SEATTLE, WASHINGTON
 NLK - 18.6 KHZ

CONTOUR INTERVAL : 2, 6, 12, 18 > 18 Percent.

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

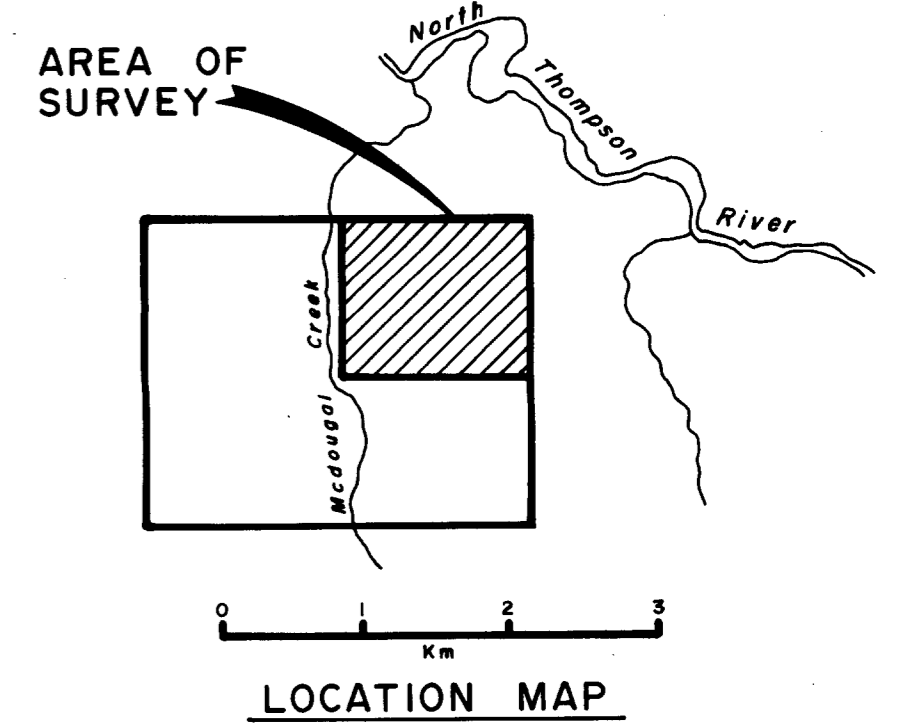
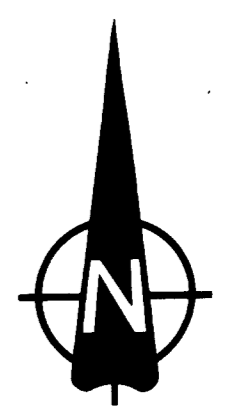
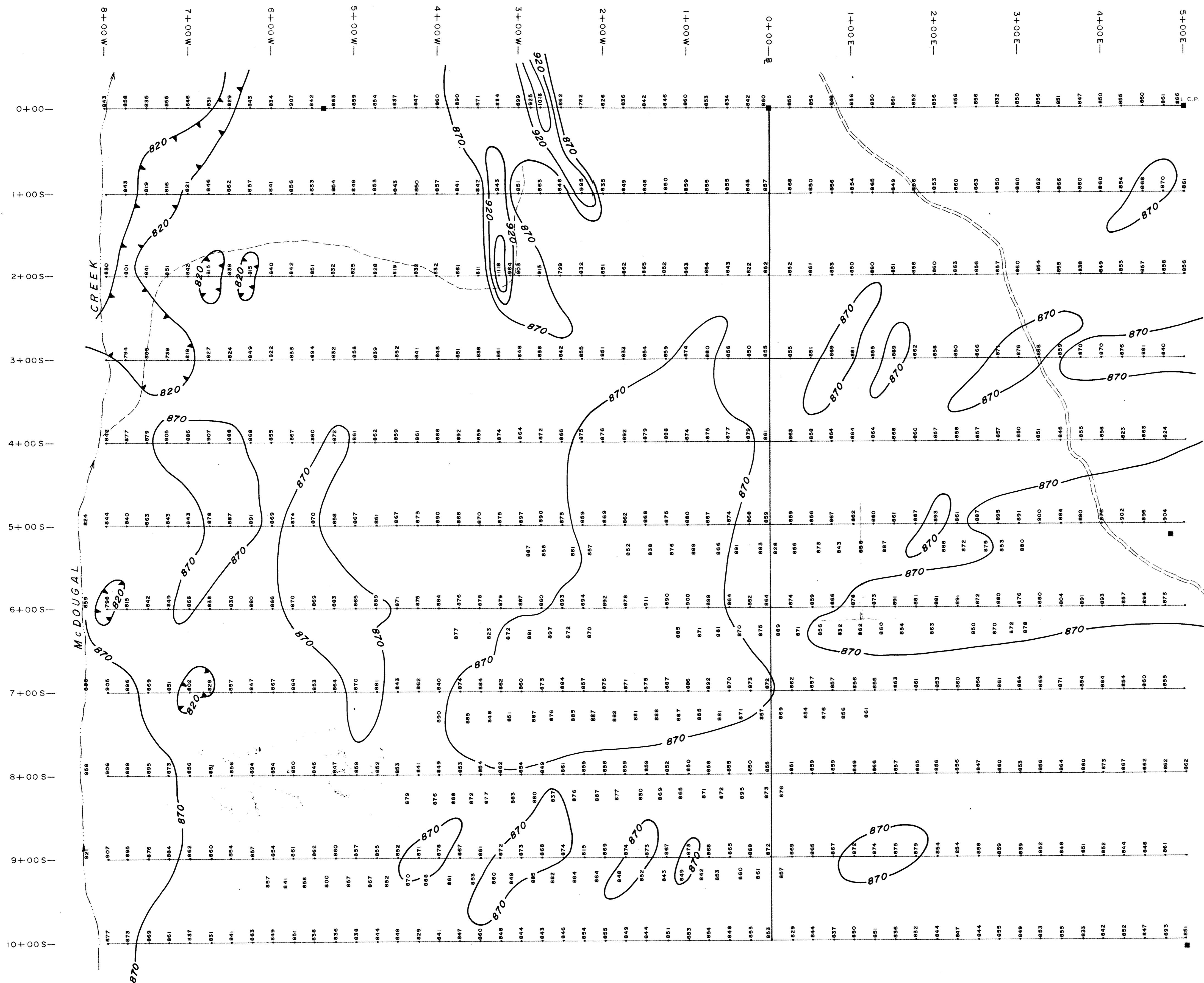
15,213



ORWELL RESOURCES LTD.
 - CLEARWATER PROJECT -
 AURIC CLAIM

**VLF-EM SURVEY
 FRASER FILTERED DATA**

RAM EXPLORATIONS LTD. VANCOUVER, B.C.	DWN. BY: T.M. CHK. BY: DATE: JULY, 1986	FIG. No. 8
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LEGEND

- Creek.
- Road.
- Trail.
- Claim post.

INSTRUMENT: SCINTREX MP-2
 BASE: 57,000 GAMMAS
 CONTOUR INTERVAL: 820, 870, 920 > 920 GAMMAS.

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

15,213

100 50 0 50 200
Meters

ORWELL RESOURCES LTD.
 — CLEARWATER PROJECT —
 AURIC CLAIM

MAGNETOMETER SURVEY

RAM EXPLORATIONS LTD. VANCOUVER, B.C.	DWN. BY: T.M. CHK. BY: DATE: JULY, 1986	FIG. No. 9
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