

6018

PART 1 of 2

part 1
of 2

ALCO OPTION

#6018

GRAND FORKS, B. C.

Geological, Geochemical, Geophysical
and Percussion Drilling Report
Greenwood Mining Division

D.B. Petersen

Sept. 1976

82E/9W

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

NO. 6018

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1. S U M M A R Y

The ALCO, ALCO 2, and ALCO 3 claims were staked to cover a large surface exposure of fractured, and weakly altered and mineralized rock that occurred in Nelson granodiorite.

Geological mapping, geochemical soil sampling, induced polarization and magnetometry were used to delineate targets for follow-up percussion drilling.

A seven-hole percussion drilling programme tested a broad zone across the fractured and mineralized area of interest.

The disappointing results indicated that the grade of copper and molybdenum is too low to warrant further interest.

No further work is recommended on the property.

2. LOCATION AND ACCESS

The ALCO, ALCO 2, and ALCO 3 claims are situated at geographic coordinates $49^{\circ}31' N$, $118^{\circ} 22' W$, approximately fifty air kilometres North of the town of Grand Forks, and immediately South of the junction of Burrell Creek and Franklin Creek. N.T.S. is 82 - E - 9/W.

Access is by two-lane government logging road from Grand Forks that follows the Granby River Northwards until the Burrell Creek road turn-off. The approximate centre of the ALCO claim is at mile post $12\frac{1}{2}$ on the Burrell Creek road. See Location Map.

3. TOPOGRAPHY and VEGETATION

The topography in the area of the ALCO, ALCO 2, and ALCO 3 claims is generally moderate and forms a weakly-apparent basin between Burrell and Nicoll Creeks. West and East of these two creeks respectively, the land rises moderately to steeply from an approximate elevation of 850 metres in the Southwest to an elevation of 1,230 metres in the Southeast.

Vegetation is variable, consisting of grass and bush covered areas at the lower elevations and moderately dense growths of larch, and fir to the North and the East. The ALCO 2 and ALCO 3 claims are covered by a dense growth of cedar and larch windfall.

The steep slope West of Burrell Creek is grass covered and almost devoid of tree growth.

4. HISTORY

The history of the Burrell Creek area goes back to the early nineteen hundreds when the Franklin mining camp was the scene of much mining activity (Drysdale, 1915). After the First World War, however, activity waned, mainly because of the long haulage distance to the smelter at Grand Forks and and the low metal prices prevalent at the time.

In 1968, the area now covered by the ALCO claim was staked as the BEAR-DOE group of claims and examined by Dr. G.W.H. Norman for Newmont Mining Corporation. His findings are reported in B.C. Assessment Report No. 1845.

In 1975, blasting during the construction of the Burrell Creek logging road exposed a weakly mineralized stockwork of copper and molybdenite in Nelson granodiorite over an intermittent North-South length of 700 metres. This prompted staking of the ALCO, and ALCO 2 claims by J. Nedokus, who optioned these claims to Rio Tinto Canadian Exploration Ltd., a short time later. Under terms of an agreement dated 17th October 1975, the ALCO 3 claim was staked by Rio Tinto on January 1976, and is included in the option.

5. REGIONAL GEOLOGY

Structurally, the area of the ALCO claims falls within the Cariboo geanticline, a stable massif that adjoins the Quesnel trough to its immediate West.

The area has been mapped by the G.S.C. (Little, 1957) and by Drysdale (1915).

The oldest rocks in the area are of Paleozoic Age and include in the area of the ALCO claims, paragneiss and limestone of the Monashee Group, and volcanics and limestone of the Anarchist Group.

In the Upper Triassic Period, granodiorites of the Nelson Group intruded the Paleozoic sediments causing skarnification and mineralization of the Anarchist limestones. This was followed in the Lower Cretaceous Period by intrusion of the Valhalla granites (Little, 1962).

In the Cenozoic Period, intrusive syenites of the Coryell Group and volcanics of the Kettle River Group were emplaced. Subsequently, andesites, tuffs, and shales of the Phoenix Group were laid.

6. WORK DONE BY RIO TINTO

6.1 LINE CUTTING

For access and control in geological mapping, geochemical soil sampling, and geophysical surveying, 3,000 metres of base line, and 29,900 metres of line, 1 metre wide, were cut during May, 1976. The base line was orientated at 330° and the lines were cut perpendicular to the base line and spaced 200 metres apart. Pickets, bearing the coordinates of the station, were placed at 50 metre intervals along the lines, See drawing no. G -8436

The line cutting was done by D. Bragg of Vancouver.

6.2 GEOCHEMICAL SOIL SAMPLING

In 1975, before line cutting had been done, samples, numbered 7,500,161 through 7,500,273 (113 samples), were taken along four East-West lines spaced approximately 200 metres apart on the ALCO 2 claim.

In 1976, 237 samples were taken by the writer along the cut lines at the picket stations in those areas that were underlain, or thought to be underlain by Nelson granodiorite.

The sample locations are shown on drawing no. GC-8437

Samples were collected by digging into the 'B' horizon with a shovel and placing approximately 250 grams of this material in a brown Kraft paper bag. Each bag was numbered and sent to the Rio Tinto Canadian Exploration Laboratory in North Vancouver for analysis.

There, the samples were dried, sieved to -80 mesh; 0.6 grams of this material was placed in a test tube, and 2 millilitres of nitric acid and 1 millilitre of perchloric acid added to the test tube. After diluting the contents to 12 millilitres by adding water, the resultant sample was analyzed for Cu and Mo on a Techtron AA5 atomic absorption spectrophotometer.

E. Paski Jr. was the analyst.

The results are shown on drawing no. GC-8437.

6.3 GEOLOGICAL MAPPING

Geological mapping was conducted over the whole of the property, along the cut lines and also between them. Areas of outcrop were recorded on a map to a scale of 1:5,000, and the rock type, type of alteration and its intensity, fracturing, and mineralization were recorded. The results of the mapping are shown on drawing G-8436.

Two hand specimens from locations 2,200 N, 130 E, and 1,990 N, 30 W were sent to Fox Geological Consultants whose report is attached as Appendix III for thin section examination.

6.4 INDUCED POLARIZATION

An induced polarization survey was conducted on lines 1,200 N, 1,600 N, 1,800 N, 2,000 N, 2,200 N, and 2,400 N. This survey is described in detail in the accompanying report (McCance, 1976). The survey was performed by the geophysical crew of Rio Tinto under the field supervision of D. Sexsmith.

6.5 MAGNETOMETRY

A ground magnetometer survey was conducted along all the lines, with the readings being taken at 25 metre intervals along the lines. This is described in detail in the accompanying report (McCance, 1976).

6.6 RADIOACTIVITY SURVEY

The logging road was traversed by U. Paltser with a Scintrex model BGS - 1SL Broadband Gamma Ray scintillometer. Stations were at 30 metre intervals along the road. The results are shown in drawing GC-8447.

6.7 PERCUSSION DRILLING

After completion of the above work, percussion drilling was conducted to test the grade of mineralization at depth over an approximate 1,500 metre North - South section.

Seven holes, each between 290 feet (88 metres) and 310 feet (95 metres) long, were drilled by Al Miller Percussion Drilling Ltd. of Kamloops, for a total of 2,100 feet (640 metres), during the period 31st July to 4th August 1976.

The drill and compressor, which were mounted on a converted army truck, were equipped to drill inclined holes.

Continuous sampling of the bed rock was achieved by the circulation of water and rock fragments to the surface, which were then diverted to a mechanical sampler consisting of a notched rotating disc. As the water and rock fragments flowed over the disc, material in the notches constituting the sample was ejected from the sampler and collected in a plastic bag. The

remaining 7/8 ths of the material passed through the sampler unaffected. A separate sample was taken for every 10 feet (3 metres) interval of drilling.

Additional processing of the sample consisted of decanting excess water from the rock fragments leaving a wet sludge which was taken to Kamloops Research and Assay Laboratory Ltd. where it was dried and analyzed by standard atomic absorption methods.

Each sample was analyzed for Cu and Mo, and every fifth sample for Cu, Mo, Au, and Ag.

Holes P.1 through P.4 were drilled at a bearing of 240° and dipped at 70° to the horizontal.

Holes P.5 and P.6 were drilled at a bearing of 60° and dipped at 70° to the horizontal.

Hole P.7 was drilled vertically.

The hole locations are shown plotted on drawing G-8436.

The logs of the holes and the assay results are included as Appendices I and II in this report.

7. RESULTS OF WORK

7.1 GEOCHEMICAL SOIL SAMPLING

The results for Mo show that while background values are usually 1 or 2 ppm, the values over the fractured, altered, and mineralized area range as high as 13 ppm. This area is bounded approximately by coordinates 1,400 N to 2,400 N and 0 E to 500 W.

Similarly the results for Cu show that background values are generally less than 14 ppm, but over the fractured, altered, and mineralized area, the values range up to 74 ppm with an average of approximately 25 ppm. This area coincides reasonably well with the area of higher Mo values described above.

7.2 GEOLOGICAL MAPPING

7.2.1. Rock Types

Mapping has shown that six major rock types exist on the property.

The oldest of these is Permian limestone, classed by Drysdale (1915) as Gloucester limestone, a sub-division of the Anarchist Formation. This limestone occurs as a large pendant in the fractured Nelson granodiorite immediately North off the base line and as small xenoliths in the area centered at 1,400 N, 300 E.

It is usually cream-coloured, hard, and fine grained.

Amphibolite occurs in the Southwest corner of the ALCO claim, where it has been well exposed in the road cuts. It is massive and dense and composed of green-black hornblende and minor magnetite. The amphibolite is thought to be older than the Nelson granodiorite and therefore to belong to the Anarchist Formation, for its contacts with the Nelson granodiorite are gradational and display various degrees of digestion by the latter.

The Nelson granodiorites are Upper Triassic in age (Little, 1962), and are known to occur over a crudely circular area of 150 kilometres diameter. The centre of this mass lies approximately 35 kilometres East of the ALCO claims. It has been divided into two main types by Little (1960), porphyritic, and non-porphyritic.

The porphyritic variety is granitic in composition and is a coarse gray rock that contains phenocrysts of alkali feldspar (50%) in a groundmass (40%) of potash feldspar, plagioclase, and quartz with minor (10%) hornblende and biotite. The size and frequency of the phenocrysts is variable.

The non-porphyrific variety is granodioritic in composition and is found principally in the Western part of the batholith. Typically, it is greenish-gray, coarse to medium-grained and consists of plagioclase (andesite), orthoclase, quartz, and hornblende with minor biotite.

Typically, there are no sharp contacts between the two main phases, the intensity and size of the phenocrysts increasing gradually as the porphyritic variety is approached. The Nelson batholith therefore, is probably of gneissic origin (Little, 1960) and is homogenous.

On the ALCO claims, the Nelson granodiorite is of the non-porphyrific type, and where unfractured and fresh consists of plagioclase, quartz, and minor hornblende. Sample C 24116 from location 2,200 N, 130 E, was sent to Dr. P. Fox of Fox Geological Consultants Ltd., for thin section examination. He reported as follows "The rock is a typical hypidiomorphic-granular plutonic rock and has a mean grain size of 1.5 mm. It is composed of 50% (estimated) blocky tablets of plagioclase (An₂₀) weakly altered to a

few granules of epidote and a light dusting of kaolinite; 20% blocky perthitic microcline (primary); 15% anhedral quartz; and granular and fibrous masses several mm in size of intergrown chlorite, epidote, and carbonate. Accessory minerals comprise apatite, disseminated hematite, and minor pyrite (?) The specimen is a typical "granodiorite", (See Appendix III).

Valhalla granites are seen to outcrop in the Eastern portion of the ALCO claims and also in the North. In the East, they are coarse, light-coloured rocks of plutonic origin and granitic composition. They contain orthoclase, quartz, oligoclase, and biotite. Hornblende is rare (Little, 1960). Cross cutting relationships have established that the Valhalla rocks are younger than the Nelson rocks and have been dated as Lower Cretaceous (Little, 1957).

An outcrop of veined gneiss occurs at the North of the ALCO claim between Burrell Creek and Nicoll Creek, and consists of blocks of hornblende-biotite gneiss irregularly interlaced with a network of light-coloured granitic and pegmatitic veins.

A small outcrop of what is thought to be Coryell syenite occurs at the North boundary of the ALCO claim. Typically, these rocks are reddish-coloured and coarse-grained, and consist of orthoclase, micro-perthite, and andesite with minor quartz, hornblende, biotite, and sometimes augite. They have been dated as Paleocene (Little, 1957).

The area West of Burrell Creek is underlain principally by volcanic conglomerates of the Kettle River Formation. They consist of boulders and cobbles of black, glassy andesitic material in a microcrystalline, black, glassy matrix. Occasionally, rounded cobbles of Nelson granodiorite are observable.

The tuffs mapped on the ALCO claims occur as shallow inliers overlying the Nelson granodiorite and the volcanic conglomerates. They are of dacitic composition, buff-coloured, fine-grained, and vesicular. The age of the Kettle River Formation is given as Eocene (Little, 1957).

7.2.2. Structure

Two parallel East-West striking faults are evident topographically on the ALCO 2 claim.

Nicoll Creek is postulated as being a North-South striking fault. The evidence for this is mainly as result of the induced polarization survey.

7.2.3 Fracturing

Mapping has shown that alteration and mineralization are confined to two fractured zones, occurring in Nelson granodiorite and, less importantly, in the veined gneiss.

In the Nelson granodiorite the fractured zone covers an area of approximately 1,300 metres by 700 metres with the long axis of the zone orientated in an approximate direction of 330° . The margins of this fractured zone are characterized by a simple decrease in fracture intensity which grades into relatively unfractured, unmineralized, and fresh granodiorite. There are no sharp contacts.

7.2.4 Hydrothermal Alteration

Various types and intensities of hydrothermal alteration have been mapped in the fractured zone of the Nelson granodiorite. These include propylitic, phyllic, argillic, and potassic alteration.

Very weak propylitic alteration is observable over most of the fractured zone, and is evident as chlorite and/or epidote that appears to be associated with the fracturing. Sample C 24116, taken from the road cut at 2,200 N, 130 E was examined in thin section by Dr. P. Fox of Fox Geological Consultants Ltd. He reported (see Appendix III) that ". . . granular and fibrous masses several millimetres in size of intergrown chlorite, epidote, and carbonate . . . Chloritic aggregates appear to be alteration products of biotite and/or hornblende. The abundance of chlorite, epidote, carbonate and small amounts of pyrite (?) suggest that the rock belongs to the propylitic zone and is hence a distal facies".

Phyllic alteration, evidenced by quartz-sericite stringers, is present in the road cut at 1,960 N, 200 W.

Sample C 24178 taken from the road cut at 1,990 N, 30 W was examined by Dr. P. Fox. He reported as follows: ". . . Most significant features are abundance of secondary sericite, pale green mica (secondary ?), and retrograde chlorite. No secondary epidote or quartz noted. Alteration assemblage is transitional phyllic zone".

Twenty metres North of the site from which sample C 24178 was taken, a zone, some 15 metres wide, exhibits argillic alteration. Here, the granodiorite had been altered to kaolinite, so that the original mineral constituents were scarcely discernible, and the rock was softened so that it could be scratched with a fingernail.

At 2,200 N, 130 E, three veinlets of orthoclase, each about 1 centimetre wide were observed to cut the granodiorite. This is construed to represent a very limited zone of potassic alteration.

The veined gneiss, in the vicinity of the fractured zone, exhibits no alteration.

7.2.5. Mineralization

Copper and molybdenum mineralization has been observed over much of the fractured zone in the Nelson granodiorite. This mineralization is confined to fractures and microfractures, and no disseminated mineralization has been observed.

Typically, the surface exposures have been leached of sulphides, and copper is only evident on testing the residual limonite in the fracture planes with sulphuric acid. In the old hand-blasted pits and in the road cuts malachite and occasional quartz-chalcopyrite and quartz-molybdenite mineralization has been observed. The adit at 1,280 N, 270 W displayed appreciable malachite together with some molybdenite.

7.3 INDUCED POLARIZATION

As mentioned in the accompanying report (McCance, 1976), three zones of interest are apparent.

Zone 1 extends from line 2,000 N to line 2,600 N, and from 300 East to 400 West. This zone is characterized by above-background chargeability and low resistivity.

Zone 2 extends from line 2,200 N to line 2,600 N and from 600 East to 900 West. This zone is characterized by above-background chargeability and high resistivity.

Zone 3 extends in a North-South direction in the vicinity of Nicoll Creek. It is thought to be caused by a fault.

7.4 MAGNETOMETRY

As described in the accompanying report (McCance, 1976), the fractured zone in the Nelson granodiorite forms a weak "high" in relation to the surrounding rocks.

7.5 RADIOACTIVITY SURVEY

No above background readings were observed.

7.6 PERCUSSION DRILLING

The logs of the holes and the assay results are shown detailed in Appendices I and II respectively. The results indicate that minimal copper and molybdenum is present. Accompanying gold and silver values are of a very low order.

8. DISCUSSION OF RESULTS

At the conclusion of the geological mapping, geochemical soil sampling, and induced polarization programmes, it was felt that the results of each programme, although weak, were sufficiently encouraging to indicate that a mineralized body of reasonable size could be contained in the fractured zone within the Nelson granodiorite. The weak response of each programme was interpreted as being indicative of a low grade, but bearing in mind that a favourable grade of molybdenum might be present, a decision to test a broad section by percussion drilling was reached.

The percussion holes were located so as to test zones of observable surface mineralization, induced polarization chargeable zones, and areas of above-background soil geochemical values.

The holes were orientated and inclined so as to cross the three main mineralized fracture directions.

The results of the drilling were, unfortunately, too low to warrant further interest in the property.

9. CONCLUSIONS

A comprehensive programme of surface geological mapping, geochemical soil sampling, and induced polarization have indicated a large area of fractured and altered Nelson granodiorite to contain low grade, fracture-controlled copper and molybdenum mineralization. Follow-up percussion drilling has established that the grade of mineralization is too low to warrant further interest in the property.

10. RECOMMENDATIONS

No further work is recommended.

D.B. Petersen

D.B. Petersen
Member of B.C. Association of
Professional Engineers

DBP:rl
Vancouver Office
13 October 1976

11. REFERENCES

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COST STATEMENT
 B.C. - ALCO OPTION
 GEOLOGICAL AND GEOPHYSICAL SURVEYS
 May 3rd through July 2nd, 1976

SALARIES AND WAGES

<u>Name</u>	<u>Period</u>	<u># Days</u>	<u>Total</u>
C. SPENCE	2 Jun - 3 Jun	2	\$ 200.00
D. SEXSMITH	25 May - 2 Jul	39	1,521.00
J. LINDSEY	25 May - 30 Jun	37	1,073.00
K. GOSSEN	25 May - 30 Jun	37	1,110.00
A. LOO	25 May - 30 Jun	37	1,221.00
J. LOWE	25 May - 30 Jun	37	1,110.00
H. NGO	26 May - 30 Jun	36	1,080.00
A. AEICHELE	8 Jun - 30 Jun	23	736.00
G. TRALENBURG	9 Jun - 18 Jun	10	500.00
N. BORISENKOFF	9 Jun - 18 Jun	10	500.00
D. PETERSEN	3 May - 28 Jun	33	2,079.00
J. DOUGALL	3 May - 24 May	22	616.00
J. McCANCE	24 May - 25 May	2	170.00
			<u>\$11,916.00</u>

EMPLOYEE BENEFITS

\$ 2,383.20 \$14,299.20

FOOD AND ACCOMMODATION

2,674.65

LINE CUTTING (Contracted)

D. K. Bragg

6,034.45

TRANSPORTATION

Fixed Wing

\$ 533.82

Other

22.70 556.52

SUPPLIES

1,183.45

FUEL

323.18

ASSAYS

Rio Tinto Lab., 192 Soil Samples
 @ \$2.85 each

\$ 547.20

Other charges

10.20 557.40

. . .

RENTAL EQUIPMENT

15' Trailer (10 May - 2 Jul, 7.7 weeks @ \$115/week	=	\$ 738.30	
Leisure craft trailer (26 May - 2 Jul, 5.43 weeks @ \$75/week	=	491.50	
F100 Pick-up Truck (26 May - 2 Jul, 37 days @ \$13.95/Day + mileage	=	<u>814.11</u>	\$ 2,043.91

RIO TINTO EQUIPMENT

71 Ford Pick-up Truck (26 May - 2 Jul, 38 days @ \$10/day)	=	\$ 380.00	
Magnetometer (26 May - 2 Jul, 1½ mo. @ \$200.00/mo)	=	250.00	
Camp Equipment (325 man days @ \$3.00/day)	=	<u>975.00</u>	1,605.00

REPAIRS AND MAINTENANCE

475.27

CONSULTANT FEES

55.00

REPORT PREPARATION

965.00

TOTAL

\$31,857.83

RIO TINTO CANADIAN EXPLORATION LIMITED

D.B. Petersen

PERCUSSION DRILL RECORD

LOCATION : 1,970 N 305 W	HOLE NO : P.1	
AZIMUTH : 240°	PROPERTY : ALCO OPTION	
DIP : -70°	LENGTH : 300 feet	ELEVATION : 840 m (approx)
STARTED : 31 July 1976	BIT SIZE : 85 mm	DATE LOGGED : 31 July
COMPLETED : 31 July 1976	DIP TESTS : Nil	LOGGED BY : D.B. Petersen
PURPOSE : To test Cu & Mo mineralization in road cut	CONTRACTOR: Al Miller Percussion Drilling Ltd	

FOOTAGE		DESCRIPTION	SAMPLE NO	FOOTAGE		LENGTH	% Cu	% Mo	ozs/T Au	ozs/T Ag		
from	to			from	to							
0	2 ft.	Overburden	C 24601	20 ft	30 ft	10 ft	.07	.04				
2	220	Nelson granodiorite, weak chloritic alteration	C 24602	30	40	"	.01	<.01				
			C 24603	40	50	"	<.01	<.01				
			C 24604	50	60	"	.01	<.01				
			C 24605	60	70	"	.01	<.01	.03	Tr		
			C 24606	70	80	"	<.01	<.01				
			C 24607	80	90	"	<.01	<.01				
			C 24608	90	100	"	<.01	.02				
			C 24609	100	110	"	<.01	<.01				
			C 24610	110	120	"	<.01	<.01	.05	Tr		
			C 24611	120	130	"	<.01	<.01				
			C 24612	130	140	"	<.01	<.01				
			C 24613	140	150	"	<.01	<.01				
			C 24614	150	160	"	<.01	<.01				
			C 24615	160	170	"	<.01	<.01	.01	Tr		
			C 24616	170	180	"	<.01	<.01				
			C 24617	180	190	"	<.01	<.01				
			C 24618	190	200	"	<.01	<.01				
			C 24619	200	210	"	<.01	<.01				
			C 24620	210	220	"	<.01	<.01				
220	230	Amphibolite	C 24621	220	230	"	<.01	<.01				
			C 24622	230	240	"	<.01	<.01				
240	300	Nelson granodiorite, weak chloritic alteration.	C 24623	240	250	"	<.01	<.01	Tr	Tr		
			C 24624	250	260	"	<.01	<.01				

RIO TINTO CANADIAN EXPLORATION LIMITED

W. Petersen

PERCUSSION DRILL RECORD

HOLE No: P.1
PAGE No: 2

FOOTAGE		DESCRIPTION	SAMPLE No	FOOTAGE		LENGTH	% Cu	% Mo	OZS/T			
from	to			from	to				Au	Ag		
			C 24625	260	270	10	< .01	<.01	Tr	Tr		
			C 24626	270	280	10	< .01	<.01				
			C 24627	280	290	10	< .01	<.01				
			C 24628	290	300	10	< .01	<.01				

RIO TINTO CANADIAN EXPLORATION LIMITED

D.B. Petersen

PERCUSSION DRILL RECORD

LOCATION : 1,975 N 50 W	HOLE NO : P.2
AZIMUTH : 240°	PROPERTY : ALCO OPTION
DIP : -70°	CLAIM No.: ALCO CLAIM
LENGTH : 300ft	ELEVATION : 840 m (approx)
STARTED : 1 August 1976	BIT SIZE : 85 mm
DATE LOGGED : 1 August '76	SECTION :
COMPLETED : 1 August 1976	DIP TESTS : Nil
LOGGED BY : D.B. Petersen	CONTRACTOR: Al Miller Percussion Drill.
PURPOSE : To test zone of argillic alteration with corresponding I.P. chargeability of 20 m.s.	

FOOTAGE		DESCRIPTION	SAMPLE NO	FOOTAGE		LENGTH	% Cu	% Mo	Au ozs/T	Ag ozs/T
from	to			from	to					
0	7ft	Overburden	C 24629	20 ft	30 ft	10 ft	.01	<.01		
7	300	Nelson granodiorite, moderate argillic alteration	C 24630	30	40	10	<.01	"		
			C 24631	40	50	10	<.01	"		
			C 24632	50	60	10	.02	"		
			C 24633	60	70	10	.01	"	Tr	Tr
			C 24634	70	80	10	<.01	"		
			C 24635	80	90	10	<.01	"		
			C 26436	90	100	10	<.01	"		
			C 24637	100	110	10	<.01	"		
			C 24638	110	120	10	.01	"	Tr	.045
			C 24639	120	130	10	<.01	"		
			C 24640	130	140	10	.01	"		
			C 24641	140	150	10	<.01	"		
			C 24642	150	160	10	.01	"		
			C 24643	160	170	10	<.01	"	Tr	.115
			C 24644	170	180	10	<.01	"		
			C 24645	180	190	10	<.01	"		
			C 24646	190	200	10	.01	"		
			C 24647	200	210	10	.01	"		
			C 24648	210	220	10	.02	"	Tr	.335
			C 24649	220	230	10	.01	"		
			C 24650	230	240	10	.01	"		
			C 24651	240	250	10	.01	"		
			C 24652	250	260	10	<.01	"		

RIO TINTO CANADIAN EXPLORATION LIMITED

SB Petersen

PERCUSSION DRILL RECORD

HOLE No:	P.2
PAGE No:	2

FOOTAGE		DESCRIPTION	SAMPLE No	FOOTAGE		LENGTH	% Cu	% Mo	Au ozs/T	Ag ozs/T
from	to			from	to					
			C 24653	260	270	10	<.01	<.01	Tr	Tr
			C 24654	270	280	10	<.01	<.01		
			C 24655	280	290	10	<.01	<.01		
			C 24656	290	300	10	<.01	<.01		

RIO TINTO CANADIAN EXPLORATION LIMITED

D.B. Petersen

PERCUSSION DRILL RECORD

LOCATION : 2,045 N 35 E	HOLE NO : P.3	
AZIMUTH : 240°	PROPERTY : ALCO OPTION	
DIP : -70°	LENGTH : 290 ft	ELEVATION : 860 m (approx.)
Claim No. : ALCO CLAIM	STARTED : 2 August 1976	BIT SIZE : 85 mm
DATE LOGGED : 2 Aug 76	SECTION :	
COMPLETED : 2 August 1976	DIP TESTS : Nil	LOGGED BY : D.B. Petersen
PURPOSE : To test mineralization in road cut	CONTRACTOR: Al Miller Percussion Drilling Ltd	

FOOTAGE		DESCRIPTION	SAMPLE NO	FOOTAGE		LENGTH	% Cu	% Mo	Au ozs/ton	Ag ozs/T		
from	to			from	to							
0 ft	3 ft	Overburden	C 24657	20 ft	30 ft	10ft	.10	<.01				
3 ft	290	Nelson granodiorite, moderate argillic alteration	C 24658	30	40	10	.06	"				
			C 24659	40	50	10	.08	"				
			C 24660	50	60	10	.09	"				
			C 24661	60	70	10	.11	"	Tr	.055		
			C 24662	70	80	10	.05	"				
			C 24663	80	90	10	.01	"				
			C 24664	90	100	10	.04	"				
			C 24665	100	110	10	.03	"				
			C 24666	110	120	10	.10	"	Tr	.035		
			C 24667	120	130	10	.07	"				
			C 24668	130	140	10	.06	"				
			C 24669	140	150	10	.03	"				
			C 24670	150	160	10	.02	"				
			C 24671	160	170	10	.01	"	Tr	.005		
			C 24672	170	180	10	<.01	"				
			C 24673	180	190	10	<.01	"				
			C 24674	190	200	10	<.01	"				
			C 24675	200	210	10	<.01	"				
			C 24751	210	220	10	<.01	"	Tr	Tr		
			C 24752	220	230	10	.01	"				
			C 24753	230	240	10	<.01	"				
			C 24754	240	250	10	<.01	"				
			C 24755	250	260	10	<.01	"				

RIO TINTO CANADIAN EXPLORATION LIMITED

S. Peterson

PERCUSSION DRILL RECORD

HOLE No:	P. 3
PAGE No:	2

FOOTAGE		DESCRIPTION	SAMPLE No	FOOTAGE		LENGTH	% Cu	% MO	Au ozs/T	Ag ozs/T		
from	to			from	to							
			C 24756	260	270	10	<.01	<.01	Tr	.005		
			C 24757	270	280	10	<.01	<.01				
			C 24758	280	290	10	<.01	<.01				

RIO TINTO CANADIAN EXPLORATION LIMITED

LOCATION : 2,000 N 150 E

PERCUSSION DRILL RECORD

HOLE NO : P.4

AZIMUTH : 240°

PROPERTY : ALCO OPTION

DIP : -70°

LENGTH : 300 ft

ELEVATION : 860 m(approx) Claim No.: ALCO CLAIM

STARTED : 2 August 1976

BIT SIZE : 85 mm

DATE LOGGED : 2 Aug 1976 SECTION :

COMPLETED : 2 August 1976

DIP TESTS : Nil

LOGGED BY : D.B. Petersen

PURPOSE : To test zone of potassic alteration, and mineralization in road cut.

CONTRACTOR: Al Miller Percussion Drilling Ltd

FOOTAGE		DESCRIPTION	SAMPLE NO	FOOTAGE		LENGTH	%Cu	%Mo	Au ozs/T	Ag ozs/T		
from	to			from	to							
0	3	Overburden	C24760	20 ft	30 ft	10	.02	<.01				
3	85	Nelson granodiorite, weak argillic alteration	C24761	30	40	10	.01	"				
			C24762	40	50	10	<.01	"				
			C24763	50	60	10	.01	"				
			C24764	60	70	10	<.01	"	Tr	.035		
			C24765	70	80	10	<.01	"				
85	110	Kettle River volcanics; dacite.	C24766	80	90	10	<.01	"				
			C24767	90	100	10	<.01	"				
			C24768	100	110	10	<.01	"				
110	148	Nelson granodiorite, weak argillic alteration	C24769	110	120	10	<.01	"	Tr	.025		
			C24770	120	130	10	<.01	"				
			C24771	130	140	10	<.01	"				
148	170	Kettle River volcanics; dacite	C24772	140	150	10	<.01	"				
			C24773	150	160	10	<.01	"				
			C24774	160	170	10	<.01	"				
170	188	Nelson granodiorite, weak argillic alteration	C24775	170	180	10	.01	"	Tr	.045		
			C24776	180	190	10	<.01	"				
188	200	Kettle River volcanics; dacite	C24777	190	200	10	<.01	"				
			C24778	200	210	10	<.01	"				
200	300	Nelson granodiorite, weak argillic alteration	C24779	210	220	10	<.01	"				
			C24780	220	230	10	.01	"	Tr	Tr		
			C24781	230	240	10	<.01	"				
			C24782	240	250	10	<.01	"				
			C24783	250	260	10	<.01	"				

AB Petersen

RIO TINTO CANADIAN EXPLORATION LIMITED

PERCUSSION DRILL RECORD

HOLE No: P.4
PAGE No: 2

FOOTAGE		DESCRIPTION	SAMPLE No	FOOTAGE		LENGTH	%Cu	%MO	Au ozs/T	Ag ozs/T		
from	to			from	to							
			C24784	260	270	10	<.01	<.01				
			C24785	270	280	10	<.01	<.01				
			C24786	280	290	10	<.01	<.01	Tr	Tr		
			C24787	290	300	10	<.01	<.01				

RIO TINTO CANADIAN EXPLORATION LIMITED

PERCUSSION DRILL RECORD

S.B. Petersen

LOCATION : 2,645 N 695 E

HOLE NO : P.5

AZIMUTH : 60°

PROPERTY : ALCO OPTION

DIP : -70°

LENGTH : 300 ft

ELEVATION : 835m (approx) Claim No.: ALCO CLAIM

STARTED : 3 Aug 1976

BIT SIZE : 85 mm

DATE LOGGED : 3 Aug 1976 SECTION :

COMPLETED : 3 Aug 1976

DIP TESTS : Nil

LOGGED BY : D.B. Petersen

PURPOSE : To test I.P. chargeability high

CONTRACTOR: Al Miller Percussion Drilling Ltd

FOOTAGE		DESCRIPTION	SAMPLE No	FOOTAGE		LENGTH	%Cu	%Mo	Au ozs/T	Ag ozs/T		
from	to			from	to							
0	25	Overburden	C24788	30	40	10	<.01	<.01				
25	300	Valhalla granite, no discernible alteration	C24789	40	50	10	<.01	"				
			C24790	50	60	10	<.01	"				
			C24791	60	70	10	<.01	"				
			C24792	70	80	10	<.01	"	Tr	Tr		
			C24793	80	90	10	<.01	"				
			C24794	90	100	10	<.01	"				
			C24795	100	110	10	.02	"				
			C24796	110	120	10	.01	"				
			C24797	120	130	10	.01	"	Tr	Tr		
			C24798	130	140	10	.01	"				
			C24799	140	150	10	<.01	"				
			C24800	150	160	10	<.01	"				
			C24801	160	170	10	<.01	"				
			C24802	170	180	10	<.01	"	Tr	Tr		
			C24803	180	190	10	<.01	"				
			C24804	190	200	10	<.01	"				
			C24805	200	210	10	<.01	"				
			C24806	210	220	10	<.01	"				
			C24807	220	230	10	<.01	"	Tr	.085		
			C24808	230	240	10	<.01	"				
			C24809	240	250	10	<.01	"				
			C24810	250	260	10	<.01	"				
			C24811	260	270	10	.01	"				

RIO TINTO CANADIAN EXPLORATION LIMITED

PERCUSSION DRILL RECORD

SB Petersen

HOLE No: P.5
PAGE No: 2

FOOTAGE		DESCRIPTION	SAMPLE NO	FOOTAGE		LENGTH	%Cu	%Mo	Au	Ag		
from	to			from	to							
			C24812	270	280	10	.01	<.01	Tr	.04		
			C24814	280	290	10	.01	<.01				
			C24813	290	300	10	.01	<.01				

RIO TINTO CANADIAN EXPLORATION LIMITED

LOCATION : 2,735 N 800 W

AZIMUTH : 60°

D.B. Petersen PERCUSSION DRILL RECORD

HOLE NO : P.6

PROPERTY : ALCO OPTION

DIP : -70°

LENGTH : 300 ft

ELEVATION 840m (approx)

Claim No.: ALCO CLAIM

STARTED : 3 August 1976

BIT SIZE : 85 mm

DATE LOGGED : 3 Aug 76

SECTION :

COMPLETED : 3 August 1976

DIP TESTS : Nil

LOGGED BY : D.B. Petersen

PURPOSE : To test I.P. chargeability high

CONTRACTOR: Al Miller Percussion Drilling Ltd

FOOTAGE		DESCRIPTION	SAMPLE No	FOOTAGE		LENGTH	%Cu	%Mo	Au ozs/T	Ag ozs/T		
from	to			from	to							
0	3	Overburden	C24815	20	30	10	<.01	.01				
3	130	Veined gneiss	C24816	30	40	10	.01	"				
			C24817	40	50	10	.01	"				
			C24818	50	60	10	<.01	"				
			C24819	60	70	10	<.01	"				
			C24820	70	80	10	<.01	"	Tr	.075		
			C24821	80	90	10	<.01	"				
			C24822	90	100	10	<.01	"				
			C24823	100	110	10	.01	"				
			C24824	110	120	10	<.01	"				
			C24825	120	130	10	<.01	"	Tr	.04		
130	160	Kettle River volcanics; dacite	C24851	130	140	10	"	"				
			C24852	140	150	10	"	"				
			C24853	150	160	10	"	"				
160	260	Veined gneiss	C24854	160	170	10	"	"				
			C24855	170	180	10	"	"	Tr	.04		
			C24856	180	190	10	"	"				
			C24857	190	200	10	"	"				
			C24858	200	210	10	"	"				
			C24859	210	220	10	"	"				
			C24860	220	230	10	"	"	Tr	.04		
			C24861	230	240	10	"	"				
			C24862	240	250	10	"	"				
			C24863	250	260	10	"	"				

RIO TINTO CANADIAN EXPLORATION LIMITED

s. Petersen

PERCUSSION DRILL RECORD

HOLE NO:	P. 6
PAGE NO:	2

FOOTAGE		DESCRIPTION	SAMPLE NO	FOOTAGE		LENGTH	%Cu	%Mo	Au ozs/T	Ag ozs/T		
from	to			from	to							
260	270	Kettle River volcanics; dacite	C24864	260	270	10	< .01	< .01				
			C24865	270	280	10	< .01	< .01	Tr	.13		
			C24866	280	290	10	< .01	< .01				
			C24867	290	300	10	< .01	< .01				

RIO TINTO CANADIAN EXPLORATION LIMITED

LOCATION : 2,350 N 255 E

PERCUSSION DRILL RECORD

HOLE NO : P.7

AZIMUTH : -

PROPERTY : ALCO OPTION

DIP : -90°

LENGTH : 310 ft

ELEVATION : 820m (approx)

Claim No. : ALCO CLAIM

STARTED : 4 August 1976

BIT SIZE : 85 mm

DATE LOGGED : 4 Aug 1976

SECTION :

COMPLETED : 4 August 1976

DIP TESTS : nil

LOGGED BY : D.B. Petersen

PURPOSE : To test Nelson granodiorite beneath cover of Kettle River volcanics

CONTRACTOR: Al Miller Percussion Drilling Ltd

FOOTAGE		DESCRIPTION	SAMPLE No	FOOTAGE		LENGTH	% Cu	% Mo	Au ozs/T	Ag ozs/T		
from	to			from	to							
0	1ft	Overburden	C24868	120	130	10	.01	<.01				
1ft	150	Kettle River volcanics; conglomerate	C24869	130	140	10	<.01	"				
			C24870	140	150	10	.01	"				
150	190	Nelson granodiorite; no visible alteration	C24871	150	160	10	<.01	"				
			C24872	160	170	10	<.01	"	Tr	.04		
			C24873	170	180	10	<.01	"				
			C24874	180	190	10	<.01	"				
190	200	Fault zone	C24875	190	200	10	"	"				
200	218	Nelson granodiorite, no visible alteration	C24876	200	210	10	"	"				
			C24877	210	220	10	"	"				
			C24878	220	230	10	"	"				
218	250	Kettle River volcanics; dacite	C24879	230	240	10	"	"				
			C24880	240	250	10	"	"	Tr	.04		
250	310	Nelson granodiorite, no visible alteration	C24881	250	260	10	"	"				
			C24882	260	270	10	"	"				
			C24883	270	280	10	"	"				
			C24884	280	290	10	"	"				
			C24885	290	300	10	"	"	Tr	.17		
			C24886	300	310	10	"	"				

615 - 555 Burrard Street
Vancouver, B.C.
V7X 1W8

CERTIFICATE OF ASSAY

Samples submitted: August 12, 1976

Results completed: August 13, 1976

PROJECT: 8621

I hereby certify that the following are the results of assays made by us upon the herein described pulp samples.

MARKED	GOLD		SILVER	Cu	Mo						TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent		
C 24610	<0.002		0.02	<0.01	0.003						
24615	<0.002		0.02	<0.01	0.003						
24625	<0.002		<0.02	<0.01	0.002						
24638	<0.002		0.02	<0.01	0.001						
24643	<0.002		<0.02	<0.01	0.002						
24653	<0.002		<0.02	<0.01	0.001						
24661	0.003		0.02	0.11	0.002						
24666	0.002		0.03	0.11	0.002						
24671	<0.002		0.04	0.02	0.001						
24751	<0.002		<0.02	<0.01	0.001						
24769	<0.002		<0.02	<0.01	0.001						
24775	<0.002		<0.02	<0.01	0.001						
24780	<0.002		0.02	<0.01	0.001						
24786	<0.002		<0.02	<0.01	0.001						

cc Mr. E. Pashki



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Rio Tinto Canadian Exploration Ltd.,

4 - 465 Victoria Street,

Kamloops, B. C.

Attention: Mr. D. B. Petersen

Certificate No. K-994

Date August 12, 1976.

I hereby certify that the following are the results of assays made by us upon the herein described drill sludge samples

Kral No.	Marked		GOLD	SILVER	Cu	Mo					
			Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
	<u>Hole No. 1</u>										
K-994-1	C24601	20 - 30'	-	-	.07	.04					
2	C24602	30 - 40'	-	-	.01	L .01					
3	C24603	40 - 50'	-	-	L .01	L .01					
4	C24604	50 - 60'	-	-	L .01	L .01					
5	C24605	60 - 70'	.03	Tr	.01	L .01					
6	C24606	70 - 80'	-	-	L .01	L .01					
7	C24607	80 - 90'	-	-	L .01	L .01					
8	C24608	90 - 100'	-	-	L .01	.02					
9	C24609	100 - 110'	-	-	L .01	L .01					
10	C24610	110 - 120'	.05	Tr	L .01	L .01					
11	C24611	120 - 130'	-	-	L .01	L .01					
12	C24612	130 - 140'	-	-	L .01	L .01					
13	C24613	140 - 150'	-	-	L .01	L .01					
14	C24614	150 - 160'	-	-	L .01	L .01					
15	C24615	160 - 170'	.01	Tr	L .01	L .01					

Cont'd...

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

R. B. Petersen
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Rio Tinto Canadian Exploration Ltd.

Certificate No. K-994

Date August 12, 1976.

I hereby certify that the following are the results of assays made by us upon the herein described drill sludge samples

Kral No.	Marked	GOLD		SILVER		Cu		Mo					
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
	<u>Hole No. 1 Cont'd.</u>												
K-994													
16	C24616 170 - 180'	-	-	L .01	L .01								
17	C24617 180 - 190'	-	-	L .01	L .01								
18	C24618 190 - 200'	-	-	.01	L .01								
19	C24619 200 - 210'	-	-	.01	L .01								
20	C24620 210 - 220'	-	-	.02	L .01								
21	C24621 220 - 230'	-	-	.01	L .01								
22	C24622 230 - 240'	-	-	.01	L .01								
23	C24623 240 - 250'	Tr	Tr	.01	L .01								
24	C24624 250 - 260'	-	-	L .01	L .01								
25	C24625 260 - 270'	Tr	Tr	L .01	L .01								
26	C24626 270 - 280'	-	-	L .01	L .01								
27	C24627 280 - 290'	-	-	L .01	L .01								
28	C 24628 290 - 300'	-	-	L .01	L .01								
	Tr denotes "trace"												
	L denotes "less than"												

NOTE: c.c. Mr. C. D. Spence, Vancouver.

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

.....
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Rio Tinto Canadian Exploration Ltd.,
4 - 465 Victoria St.,
Kamloops, B. C.

Certificate No. K-994
Date August 14, 1976.

I hereby certify that the following are the results of assays made by us upon the herein described drill sludge samples

Kral No.	Marked		GOLD	SILVER	Cu	Mo					
			Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
	<u>Hole No. 2</u>										
29	C24629	20 - 30'	-	-	.01	L .01					
30	C24630	30 - 40'	-	-	L .01	L .01					
31	C24631	40 - 50'	-	-	L .01	L .01					
32	C24632	50 - 60'	-	-	.02	L .01					
33	C24633	60 - 70'	Tr	Tr	.01	L .01					
34	C24634	70 - 80'	-	-	L .01	L .01					
35	C24635	80 - 90'	-	-	L .01	L .01					
36	C24636	90 - 100'	-	-	L .01	L .01					
37	C24637	100 - 110'	-	-	L .01	L .01					
38	C24638	110 - 120'	Tr	.045	.01	L .01					
39	C24639	120 - 130'	-	-	L .01	L .01					
40	C24640	130 - 140'	-	-	.01	L .01					
41	C24641	140 - 150'	-	-	L .01	L .01					
42	C24642	150 - 160'	-	-	.01	L .01					
43	C24643	160 - 170'	Tr	.115	L .01	L .01					

Cont'd...

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

R. S. Blundell
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Rio Tinto Canadian Exploration Ltd.

Certificate No. K-994

Date August 14, 1976.

I hereby certify that the following are the results of assays made by us upon the herein described drill sludge samples

Kral No.	Marked		GOLD	SILVER	Cu	Mo					
			Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
	<u>Hole No. 2 Cont'd.</u>										
44	C24644	170 - 180'	-	-	L .01	L .01					
45	C24645	180 - 190'	-	-	L .01	L .01					
46	C24646	190 - 200'	-	-	L .01	L .01					
47	C24647	200 - 210'	-	-	L .01	L .01					
48	C24648	210 - 220'	Tr	.335	.01	L .01					
49	C24649	220 - 230'	-	-	.01	L .01					
50	C24650	230 - 240'	-	-	.01	L .01					
51	C24651	240 - 250'	-	-	.02	L .01					
52	C24652	250 - 260'	-	-	L .01	L .01					
53	C24653	260 - 270'	Tr	Tr	L .01	L .01					
54	C24654	270 - 280'	-	-	L .01	L .01					
55	C24655	280 - 290'	-	-	L .01	L .01					
56	C24656	290 - 300'	-	-	L .01	L .01					

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

DAS for R. B. ...

Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Rio Tinto Canadian Exploration Ltd.

Certificate No. K-994

Date August 14, 1976.

I hereby certify that the following are the results of assays made by us upon the herein described drill sludge samples

Kral No.	Marked	GOLD		SILVER		Cu		Mo					
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
	<u>Hole No. 3</u>												
57	C24657 20 - 30'	-	-	.10	L .01								
58	C24658 30 - 40'	-	-	.06	L .01								
59	C24659 40 - 50'	-	-	.08	L .01								
60	C24660 50 - 60'	-	-	.09	L .01								
61	C24661 60 - 70'	Tr	.055	.11	L .01								
62	C24662 70 - 80'	-	-	.05	L .01								
63	C24663 80 - 90'	-	-	.01	L .01								
64	C24664 90 - 100'	-	-	.04	L .01								
65	C24665 100 - 110'	-	-	.03	L .01								
66	C24666 110 - 120'	Tr	.035	.10	L .01								
67	C24667 120 - 130'	-	-	.07	L .01								
68	C24668 130 - 140'	-	-	.06	L .01								
69	C24669 140 - 150'	-	-	.03	L .01								
70	C24670 150 - 160'	-	-	.02	L .01								
71	C24671 160 - 170'	Tr	.005	.01	L .01								

Cont'd...

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

.....Daryl R. B........
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Rio Tinto Canadian Exploration Ltd.

Certificate No. K-994

Date August 14, 1976.

I hereby certify that the following are the results of assays made by us upon the herein described drill sludge samples

Kral No.	Marked		GOLD	SILVER	Cu	Mo					
			Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
	<u>Hole No. 3 Cont'd.</u>										
72	C24672	170 - 180'	-	-	.01	L .01					
73	C24673	180 - 190'	-	-	L .01	L .01					
74	C24674	190 - 200'	-	-	L .01	L .01					
75	C24675	200 - 210'	-	-	L .01	L .01					
76	C24751	210 - 220'	Tr	Tr	L .01	L .01					
77	C24752	220 - 230'	-	-	.01	L .01					
78	C24753	230 - 240'	-	-	L .01	L .01					
79	C24754	240 - 250'	-	-	L .01	L .01					
80	C24755	250 - 260'	-	-	L .01	L .01					
81	C24756	260 - 270'	Tr	.005	L .01	L .01					
82	C24757	270 - 280'	-	-	L .01	L .01					
83	C24758	280 - 290'	-	-	L .01	L .01					

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

..... *R. S. Blum*
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

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Certificate No. K-994

Date August 14, 1976.

I hereby certify that the following are the results of assays made by us upon the herein described drill sludge samples

Kral No.	Marked		GOLD	SILVER	Cu	Mo					
			Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
	<u>Hole No. 4</u>										
84	C24760	20 - 30'	-	-	.02	L .01					
85	C24761	30 - 40'	-	-	.01	L .01					
86	C24762	40 - 50'	-	-	L .01	L .01					
87	C24763	50 - 60'	-	-	.01	L .01					
88	C24764	60 - 70'	Tr	.035	L .01	L .01					
89	C24765	70 - 80'	-	-	L .01	L .01					
90	C24766	80 - 90'	-	-	L .01	L .01					
91	C24767	90 - 100'	-	-	L .01	L .01					
92	C24768	100 - 110'	-	-	L .01	L .01					
93	C24769	110 - 120'	Tr	.025	L .01	L .01					
94	C24770	120 - 130'	-	-	L .01	L .01					
95	C24771	130 - 140'	-	-	L .01	L .01					
96	C24772	140 - 150'	-	-	L .01	L .01					
97	C24773	150 - 160'	-	-	L .01	L .01					
98	C24774	160 - 170'	-	-	L .01	L .01					

Cont'd...

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

DAB for R. S. ...
.....
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

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Certificate No. K-994

Date August 14, 1976.

I hereby certify that the following are the results of assays made by us upon the herein described drill sludge samples

Kral No.	Marked		GOLD	SILVER	Cu	Mo				
			Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent
	<u>Hole No. 4 Cont'd.</u>									
99	C24775	170 - 180'	Tr	.045	L .01	L .01				
100	C24776	180 - 190'	-	-	L .01	L .01				
101	C24777	190 - 200'	-	-	L .01	L .01				
102	C24778	200 - 210'	-	-	L .01	L .01				
103	C24779	210 - 220'	-	-	L .01	L .01				
104	C24780	220 - 230'	Tr	Tr	L .01	L .01				
105	C24781	230 - 240'	-	-	L .01	L .01				
106	C24782	240 - 250'	-	-	L .01	L .01				
107	C24783	250 - 260'	-	-	L .01	L .01				
108	C24784	260 - 270'	-	-	.01	L .01				
109	C24785	270 - 280'	-	-	L .01	L .01				
110	C24786	280 - 290'	Tr	Tr	L .01	L .01				
111	C24787	290 - 300'	-	-	L .01	L .01				
	Tr denotes "trace"									
	L denotes "less than"									

NOTE: c.c. Mr. C. D. Spence

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

DAB for R.D. Bennett
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

CERTIFICATE OF ASSAY

TO Rio Tinto Canadian Exploration Ltd.,
4 - 465 Victoria St.,
Kamloops, B. C.

Certificate No. K-994
Date August 19, 1976.

I hereby certify that the following are the results of assays made by us upon the herein described drill sludge samples

Kral No.	Marked		GOLD	SILVER	Cu	Mo					
			Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
	<u>Hole No. 5</u>										
112	C24788	30 - 40'	-	-	L .01	L .01					
113	C24789	40 - 50'	-	-	L .01	L .01					
114	C24790	50 - 60'	-	-	L .01	L .01					
115	C24791	60 - 70'	-	-	L .01	L .01					
116	C24792	70 - 80'	Tr	Tr	L .01	L .01					
117	C24793	80 - 90'	-	-	L .01	L .01					
118	C24794	90 - 100'	-	-	L .01	L .01					
119	C24795	100 - 110'	-	-	.02	L .01					
120	C24796	110 - 120'	-	-	.01	L .01					
121	C24797	120 - 130'	Tr	Tr	.01	L .01					
122	C24798	130 - 140'	-	-	.01	L .01					
123	C24799	140 - 150'	-	-	L .01	L .01					
124	C24800	150 - 160'	-	-	L .01	L .01					
125	C24801	160 - 170'	-	-	L .01	L .01					
126	C24802	170 - 180'	Tr	.035	L .01	L .01					

Cont'd...

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

.....
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

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I hereby certify that the following are the results of assays made by us upon the herein described drill sludge samples

Kral No.	Marked	GOLD	SILVER	Cu	Mo					
	<u>Hole No. 5 Cont'd.</u>	<i>Ounces Per Ton</i>	<i>Ounces Per Ton</i>	Percent	Percent	Percent	Percent	Percent	Percent	Percent
127	C24803 180 - 190'	-	-	L .01	L .01					
128	C24804 190 - 200'	-	-	L .01	L .01					
129	C24805 200 - 210'	-	-	.02	L .01					
130	C24806 210 - 220'	-	-	.01	L .01					
131	C24807 220 - 230'	Tr	.085	.01	L .01					
132	C24808 230 - 240'	-	-	L .01	L .01					
133	C24809 240 - 250'	-	-	L .01	L .01					
134	C24810 250 - 260'	-	-	L .01	L .01					
135	C24811 260 - 270'	-	-	L .01	L .01					
136	C24812 270 - 280'	Tr	.04	L .01	L .01					
137	C24813 * 290 - 300'	-	-	L .01	L .01					
138	C24814 * 280 - 290'	-	-	L .01	L .01					
	* Tags marked out of sequence.									Cont'd...

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

.....
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

CERTIFICATE OF ASSAY

TO Rio Tinto Canadian Exploration Ltd.

Certificate No. K-994

Date August 19, 1976.

I hereby certify that the following are the results of assays made by us upon the herein described drill sludge samples

Kral No.	Marked		GOLD	SILVER	Cu	Mo	Ag				
			Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
	<u>Hole No. 6</u>										
139	C24815	20 - 30'	-	-	L .01	L .01					
140	C24816	30 - 40'	-	-	.01	L .01					
141	C24817	40 - 50'	-	-	.01	L .01					
142	C24818	50 - 60'	-	-	L .01	L .01					
143	C24819	60 - 70'	-	-	L .01	L .01					
144	C24820	70 - 80'	Tr	.075	L .01	L .01					
145	C24821	80 - 90'	-	-	L .01	L .01					
146	C24822	90 - 100'	-	-	L .01	L .01					
147	C24823	100 - 110'	-	-	.01	L .01					
148	C24824	110 - 120'	-	-	L .01	L .01					
149	C24825	120 - 130'	Tr	.04	L .01	L .01					
150	C24851	130 - 140'	-	-	L .01	L .01					
151	C24852	140 - 150'	-	-	L .01	L .01					
152	C24853	150 - 160'	-	-	L .01	L .01					
153	C24854	160 - 170'	-	-	L .01	L .01					

Cont'd...

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

.....
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

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Kral No.	Marked	GOLD	SILVER	Cu	Mo					
	<u>Hole No. 6 Cont'd.</u>	Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
154	C24855 170 - 180'	Tr	.04	L .01	L .01					
155	C24856 180 - 190'	-	-	L .01	L .01					
156	C24857 190 - 200'	-	-	L .01	L .01					
157	C24858 200 - 210'	-	-	L .01	L .01					
158	C24859 210 - 220'	-	-	L .01	L .01					
159	C24860 220 - 230'	Tr	.04	L .01	L .01					
160	C24861 230 - 240'	-	-	L .01	L .01					
161	C24862 240 - 250'	-	-	L .01	L .01					
162	C24863 250 - 260'	-	-	L .01	L .01					
163	C24864 260 - 270'	-	-	L .01	L .01					
164	C24865 270 - 280'	Tr	.13	L .01	L .01					
165	C24866 280 - 290'	-	-	L .01	L .01					
166	C24867 290 - 300'	-	-	L .01	L .01					

Cont'd...

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

.....
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

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TO Rio Tinto Canadian Exploration Ltd.Certificate No. K-994Date August 19, 1976.I hereby certify that the following are the results of assays made by us upon the herein described drill sludge samples

Kral No.	Marked	GOLD		SILVER		Cu	Mo				
		Ounces Per Ton	Ounces Per Ton	Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent
	<u>Hole No. 7</u>										
167	C24868	120 - 130'	-	-	.01	L .01					
168	C24869	130 - 140'	-	-	L .01	L .01					
169	C24870	140 - 150'	-	-	.01	L .01					
170	C24871	150 - 160'	-	-	L .01	L .01					
171	C24872	160 - 170'	Tr	.04	L .01	L .01					
172	C24873	170 - 180'	-	-	L .01	L .01					
173	C24784	180 - 190'	-	-	L .01	L .01					
174	C24875	190 - 200'	-	-	L .01	L .01					
175	C24876	200 - 210'	-	-	L .01	L .01					
176	C24877	210 - 220'	-	-	L .01	L .01					
177	C24878	220 - 230'	-	-	L .01	L .01					
178	C24879	230 - 240'	-	-	L .01	L .01					
179	C24880	240 - 250'	Tr	.04	L .01	L .01					
180	C24881	250 - 260'	-	-	L .01	L .01					
181	C24882	260 - 270'	-	-	L .01	L .01					
182	C24883	270 - 280'	-	-	L .01	L .01					
183	C24884	280 - 290'	-	-	L .01	L .01					
184	C24885	290 - 300'	Tr	.17	L .01	L .01					
185	C24886	300 - 310'	-	-	L .01	L .01					

NOTE: C.C. Mr. C. D. Spence, Vancouver.

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia

Date 27 June 1976

ANASTOMOSIS DESCRIPTION

not available, see G24178

Classification:

Rock Granodiorite

Alt Propylitic

Coordinates 3,200 N, 130 E

MICROSCOPIC DESCRIPTION

Texture

Medium grained hypidiomorphic-granular, 1,5 mm. Blocky subhedral plagioclase enclosed by anhedral aggregates of quartz and microcline. Felty aggregates and tabular crystals of pale green chlorite common. Stringers and granules of carbonate also common. Chlorite aggregates charged with opaque inclusions. Epidote locally abundant. Accessory apatite and opaque minerals, rare brownish clay minerals after plagioclase.

Essential Minerals & habits

	%	Remarks
Quartz	20	Anhedral coarse aggregates, 2mm.
K-spar	15	Microcline (primary), anhedral. 1.5mm
Plagioclase	40	Blocky, subhedral. An30. Altered to clay
Biotite		
Amphibole		
Pyroxene		
Chlorite	15	Pale green, pleochroic. Numerous opaque inclusions
Carbonate	5	Stringers and fine granules
Epidote	3	Granules and aggregates
Accessory minerals	2%	Sericite, clay minerals, opaque grains, apatite.

Rock weakly altered: original mafic grains altered to pseudomorphs of green pleochroic chlorite (possibly associated green mica?) charged with inclusions of opaque minerals. Abundant carbonate throughout - disseminated grains and stringers. Epidote locally abundant. Minor sericite after plagioclase. Minor clay alteration of plagioclase. Microcline unaltered, primary quartz.

PETROGRAPHIC REPORT

Spec. No C24178 (ALSO OPTION)Date 27 June 1976

MACROSCOPIC DESCRIPTION

Light grey to mottled green, equigranular, medium grained granodiorite, 20% chloritic mafics, 50% greenish plagioclase, 20% quartz, 10% Kfsp. Local seams of limonite. Rock generally soft; altered.

Classification:

Rock GranodioriteAlc weak phyllicCoordinates 1,990 N, 30 W.

MICROSCOPIC DESCRIPTION

Texture

Medium grained, 1.5mm, equigranular fabric, hypidiomorphic-granular. Blocky subhedral plagioclase, anhedral equant microcline, coarse aggregates of quartz, ragged intergrowths of green mica (?) and chlorite. Seams of sericite and aggregates in cores of feldspar grains. Brownish clay minerals form "dusting" on feldspars. Green mica-chlorite intergrowths commonly form felty masses, rare pseudomorphs after biotite (?). Accessory carbonate, apatite, minor opaque grains.

Essential Minerals & habits

	%	Remarks
Quartz	25	Coarse anhedral aggregates (primary). 2mm
K-spar	10	Microcline. Moderately altered clay, sericite
Plagioclase	35	Blocky, 2mm, An26. Moderately altered to clay, sericite
Mica	5	Pale green pleochroic mica. Felty, intergrown chlorite
Amphibole		
Pyroxene		
Chlorite	10	Green, felty aggregates, pseudomorphs after biotite?
Carbonate	2	granules and aggregates
Sericite	10	Seams filling microfractures, after feldspars

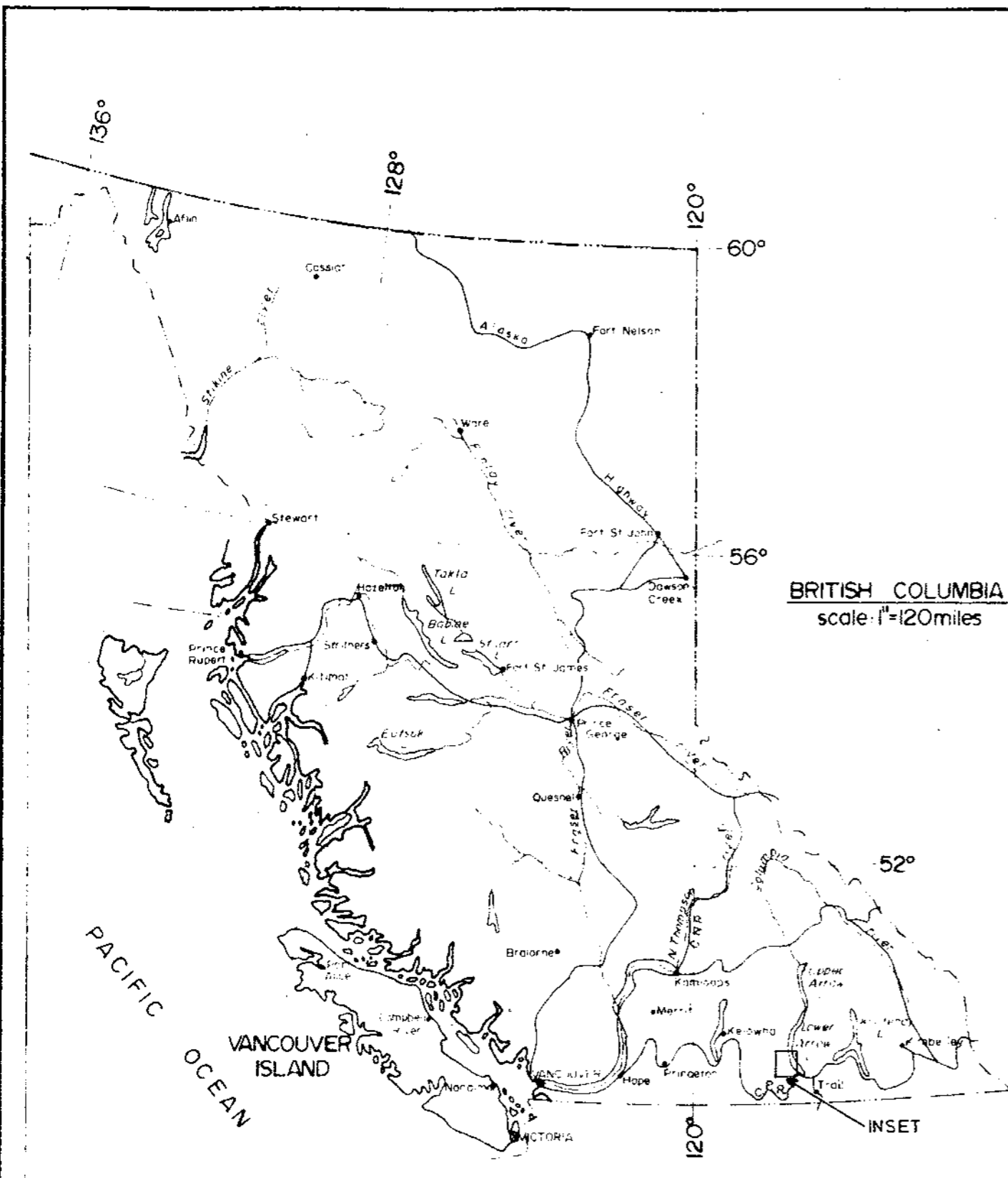
Accessory Minerals 3%. Apatite, clay minerals, opaque grains.

Alteration Moderate: sericite, green mica(?), chlorite. Feldspars moderately altered to clay and sericite. Seams and veinlets of sericite common apparently filling microfractures and cataclastic zones. Pale green pleochroic mica (?) may be secondary after primary biotite, extensively intergrown with green chlorite(penninite). Large chlorite intergrowths may be pseudomorphs after hornblende.

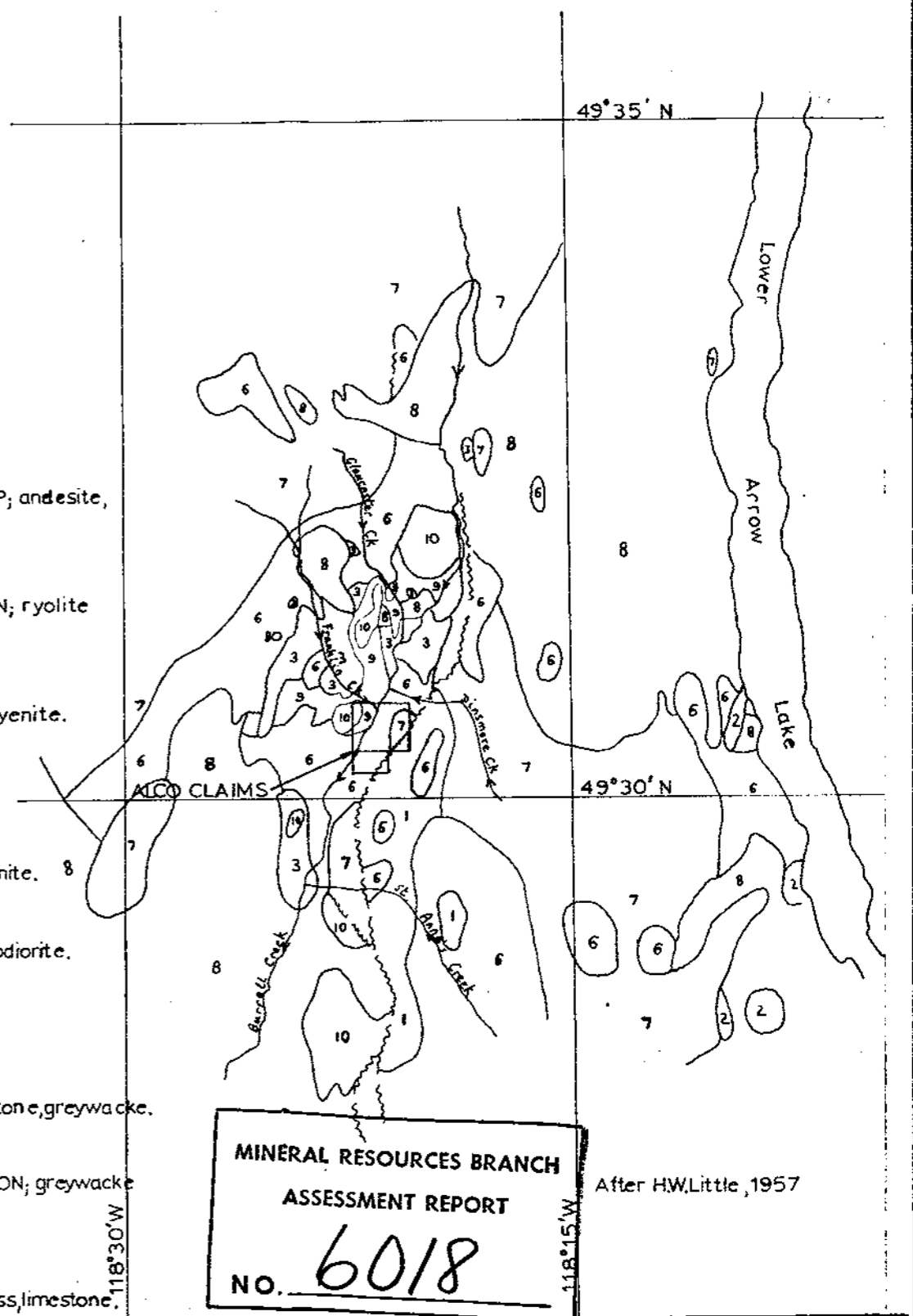
APPENDIX III

APPENDIX II

APPENDIX I

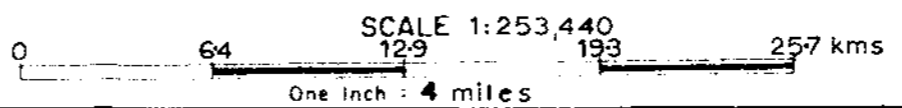


- LEGEND**
- CENOZOIC**
- 10 PHOENIX VOLCANIC GROUP; andesite, tuff, shale.
 - 9 KETTLE RIVER FORMATION; rhyolite tuff, conglomerate.
 - 8 CORYELL INTRUSIONS; syenite.
- MESOZOIC**
- 7 VALHALLA INTRUSIONS; granite.
 - 6 NELSON INTRUSIONS; granodiorite.
- PALAEOZOIC**
- 3 ANARCHIST GROUP; greenstone, greywacke.
 - 2 MOUNT ROBERTS FORMATION; greywacke, greenstone.
 - 1 MONASHEE GROUP; paragneiss, limestone.

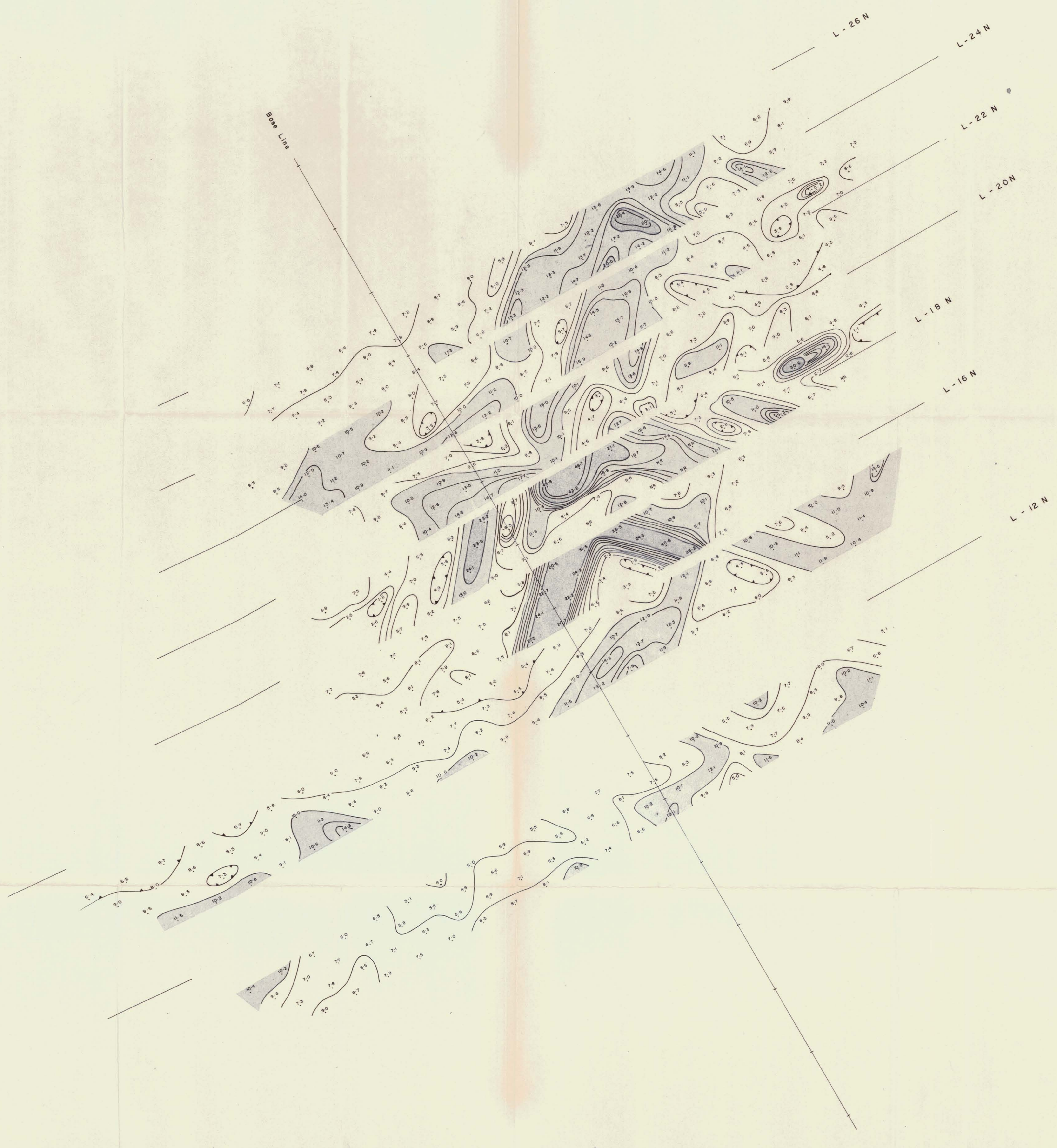


MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
No. **6018**

6018



RIO TINTO CANADIAN EXPLORATION LTD		
ALCO OPTION		
LOCATION MAP		
DBP/dbp	Nov '75	DWG L-6326

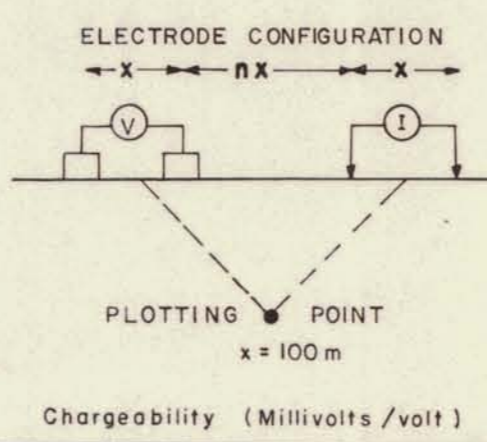


6018

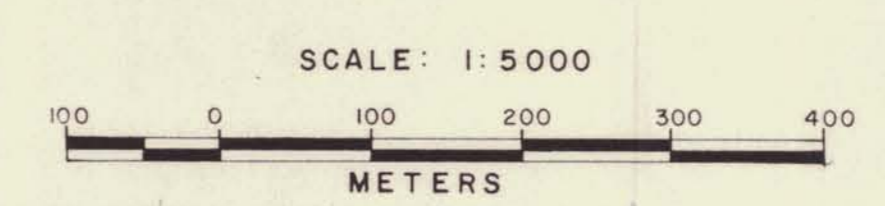
6018

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6018
MAP NO. #9

PART 2 **6018**

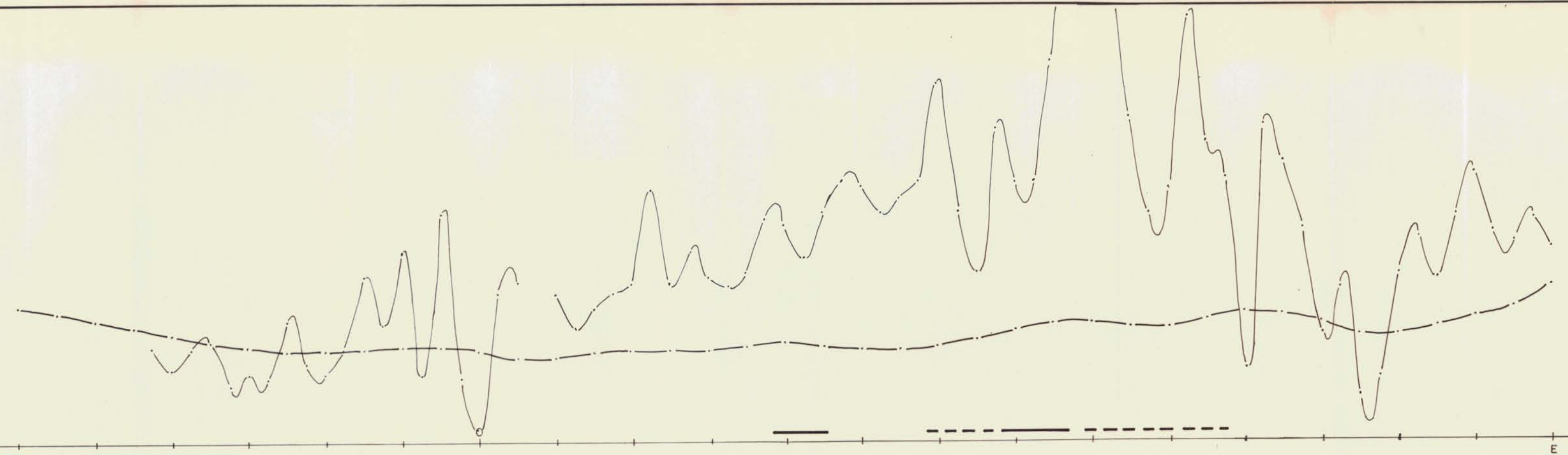


N.T.S.
82-E-9



RIO TINTO CANADIAN EXPLORATION LIMITED
ALCO OPTION - B. C.
**STACKED PSEUDOSECTION
CHARGEABILITY**
July - 1976 H. B. / e. b. DWG. I.P. - 4482

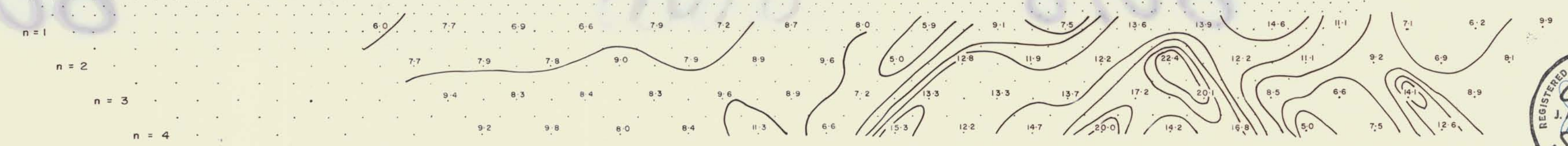
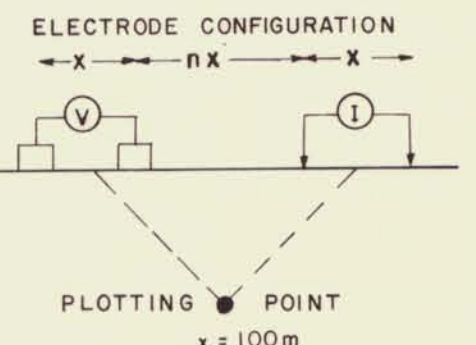
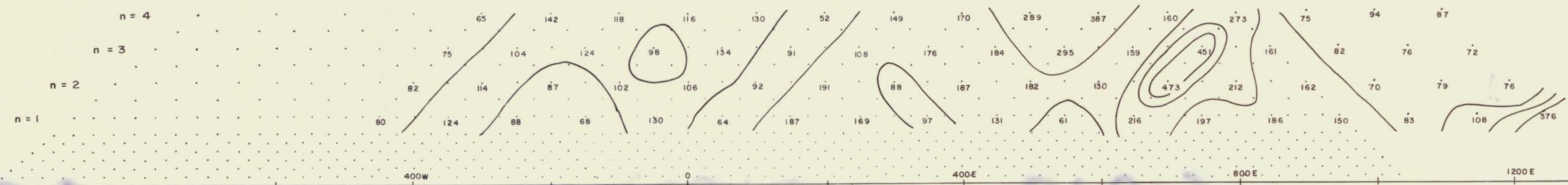
Magnetics
Relative Elev. in meters
600γ 1000
400γ 900
200γ 800
W E



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6018
MAP NO. #8

PART 2

RESISTIVITY (Ohmmeters x 10)



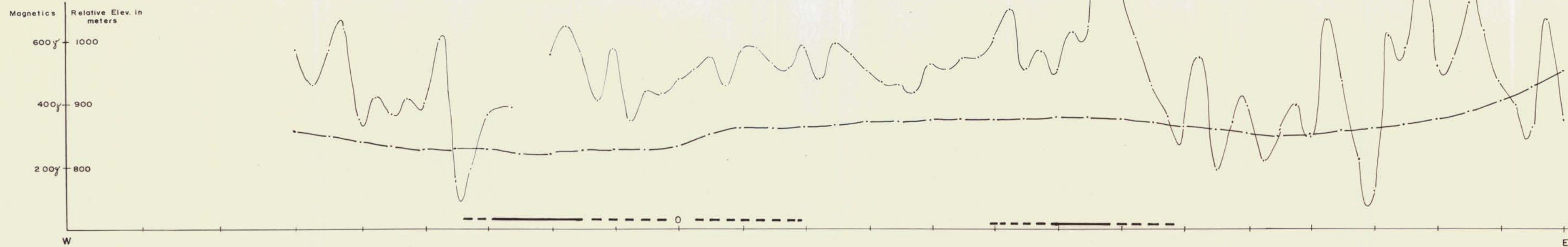
CHARGEABILITY (Millivolts / volt)

SCALE: 1:5000



6018

RIO TINTO CANADIAN EXPLORATION LTD.	
ALCO OPTION - B.C.	
I.P. PSEUDOSECTION L-26N	
Aug. 1976	H.B., D.S./e.b.
DWG.	I.P. 2746-7

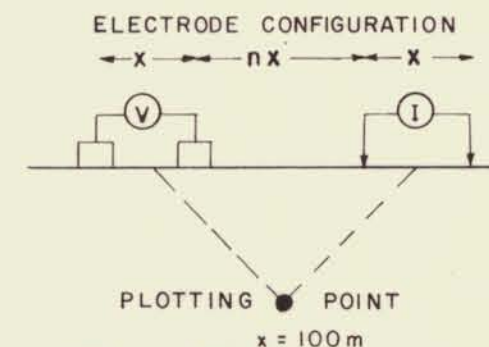
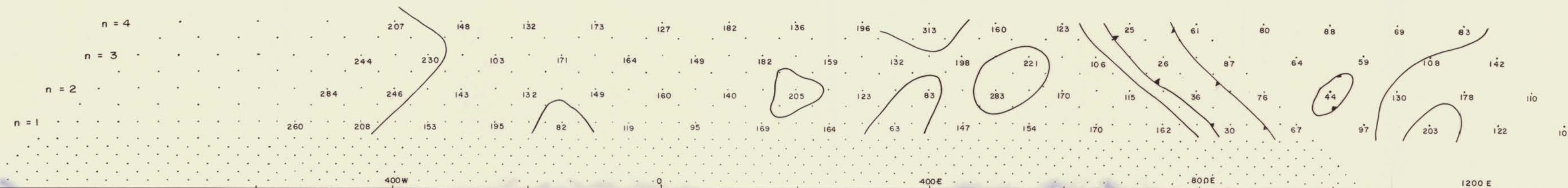


MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. **6018**
MAP NO. **#7**

PART 2



RESISTIVITY (Ohmmeters x 10)

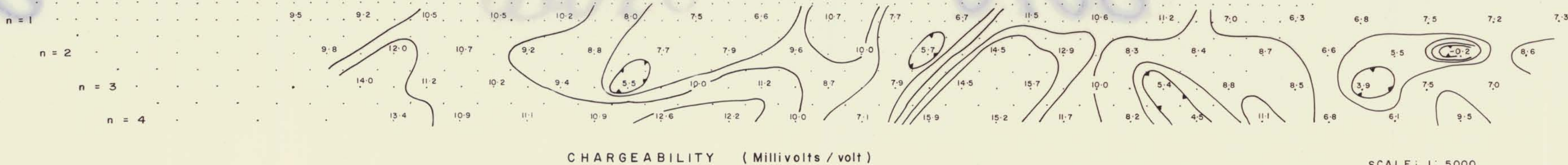


6018

6018

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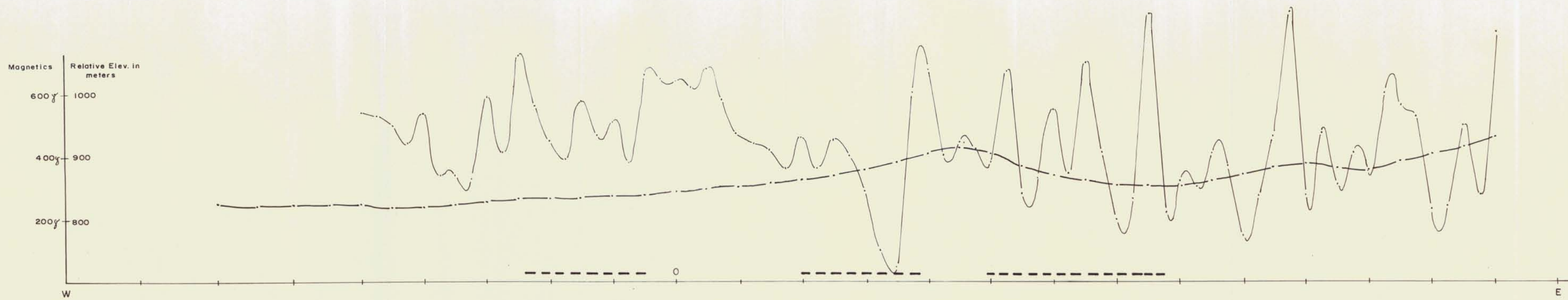
6018



CHARGEABILITY (Millivolts / volt)

SCALE: 1: 5000

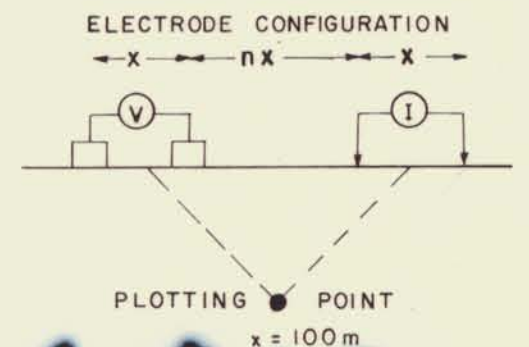
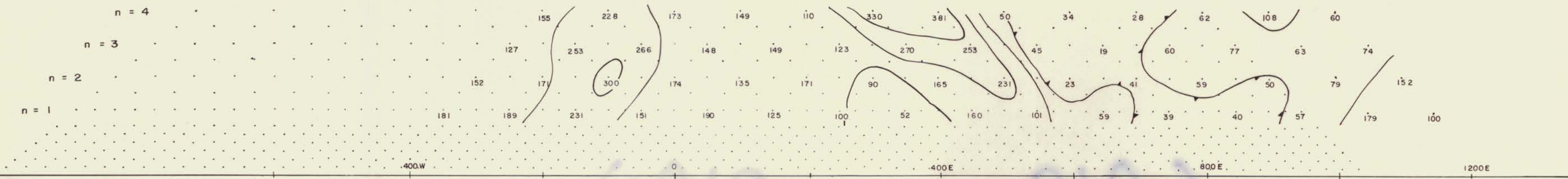
RIO TINTO CANADIAN EXPLORATION LTD.
ALCO OPTION - B.C.
I.P. PSEUDOSECTION
L - 24 N
Aug. 1976 H. B., D.S / e. b. DWG. I.P. 2746-6



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6018
MAP NO. #6

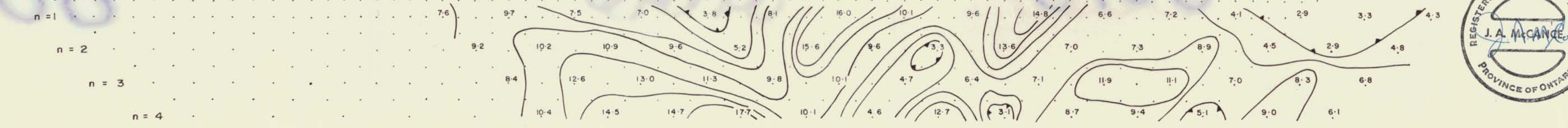
PART 2

RESISTIVITY (Ohmmeters x 10)



6018

8108

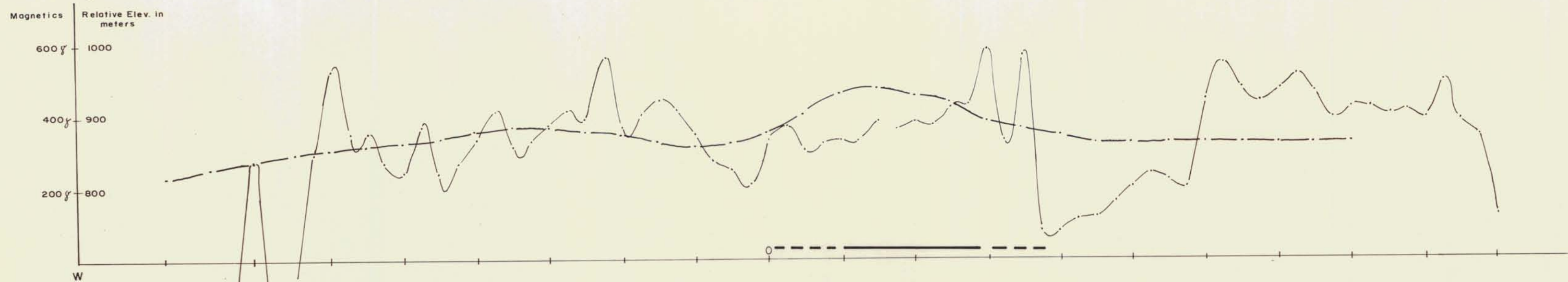


CHARGEABILITY (Millivolts / volt)

SCALE: 1:5000

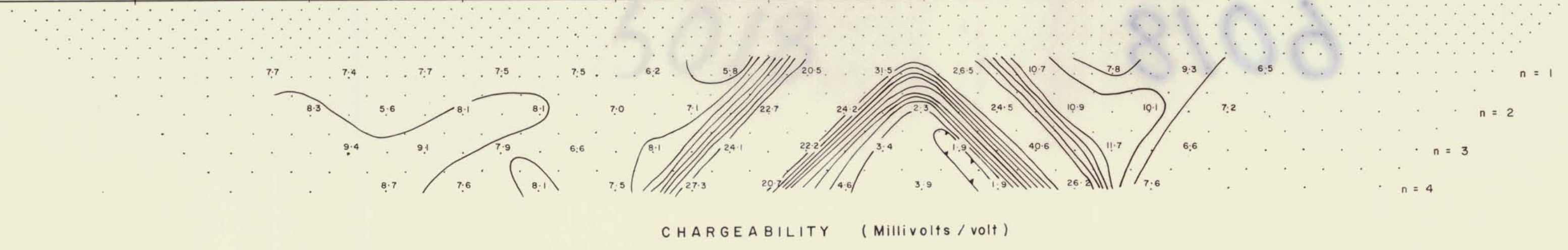
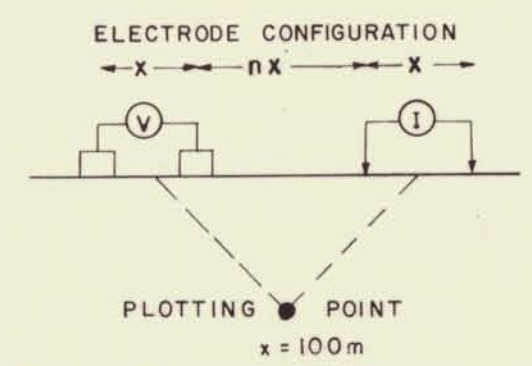
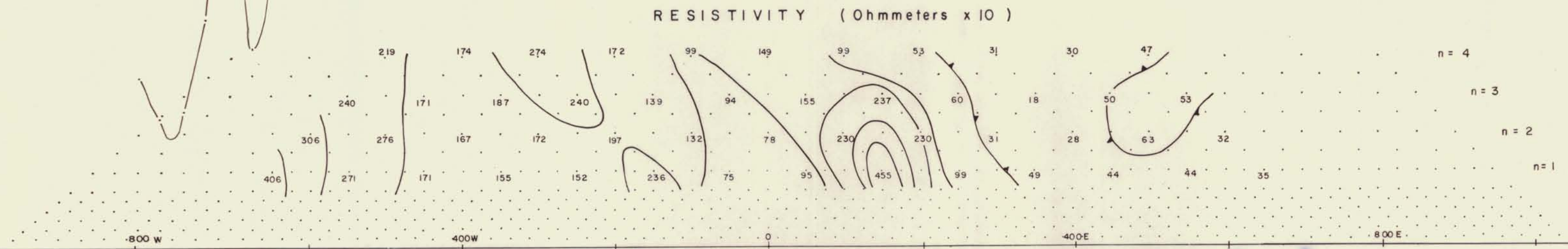


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ALCO OPTION - B.C.		
I.P. PSEUDOSECTION L-22 N		
Aug. 1976	H.B., D.S./e.b.	DWG. I.P. 2746-5



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6018
MAP NO. #4

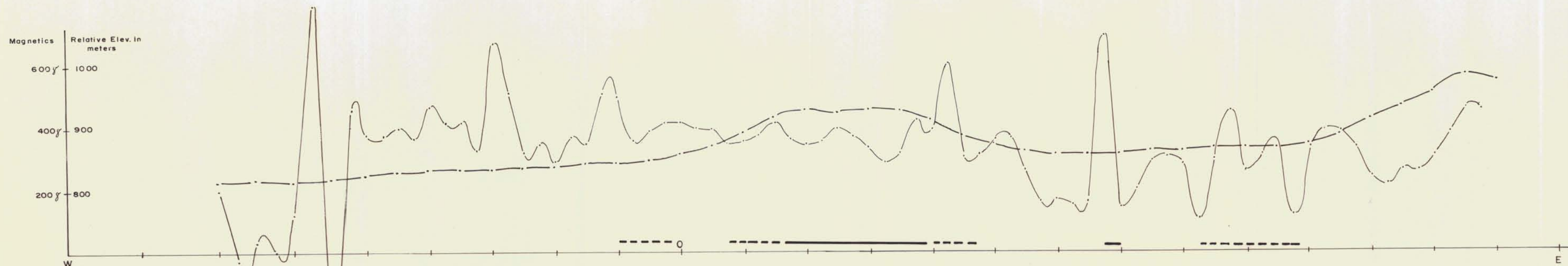
PART 2



SCALE: 1: 5000

6018

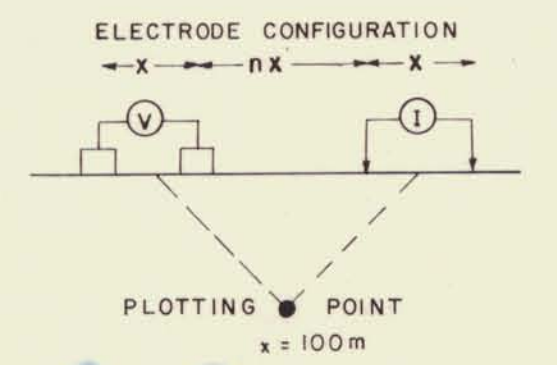
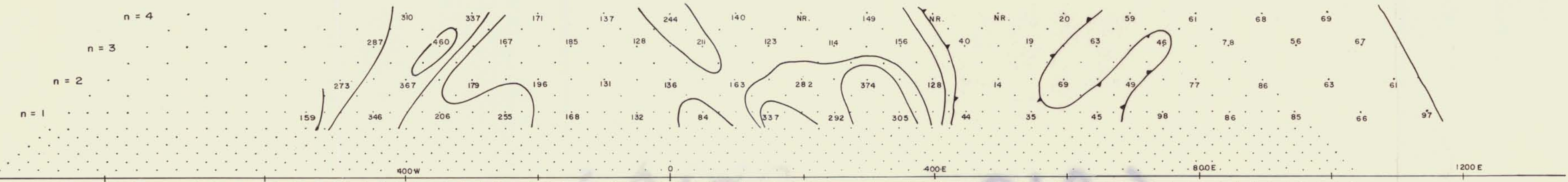
RIO TINTO CANADIAN EXPLORATION LTD.		
ALCO OPTION - B.C.		
I.P. PSEUDOSECTION L-18N		
Aug. 1976	H. B., D.S./e.b.	DWG. I.P. 2746-3



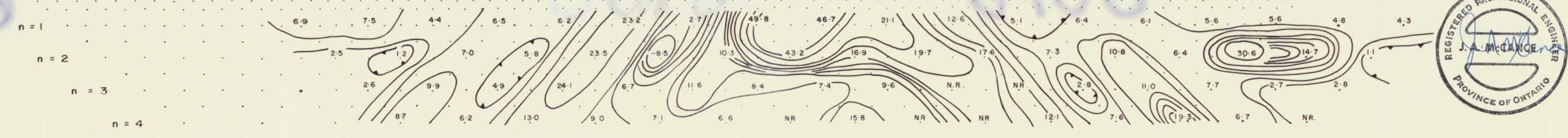
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6018
MAP NO. # 5

PART 2

RESISTIVITY (Ohmmeters x 10)



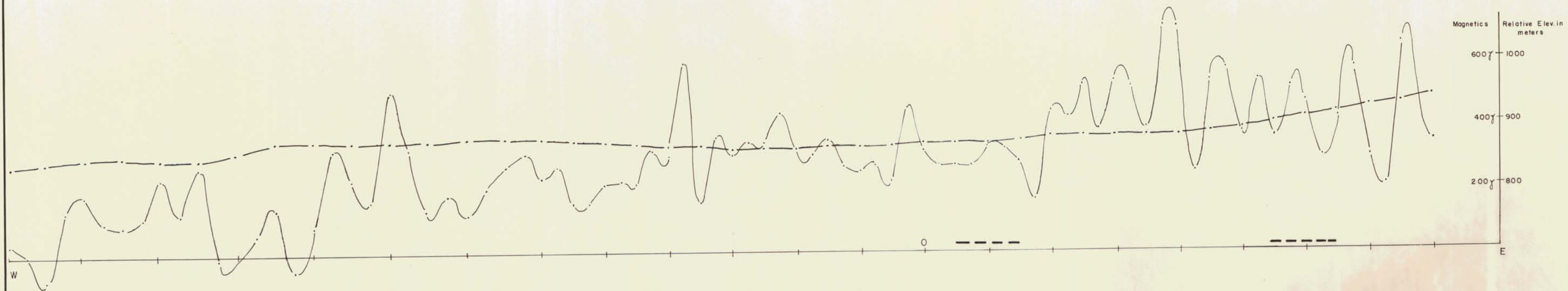
6018



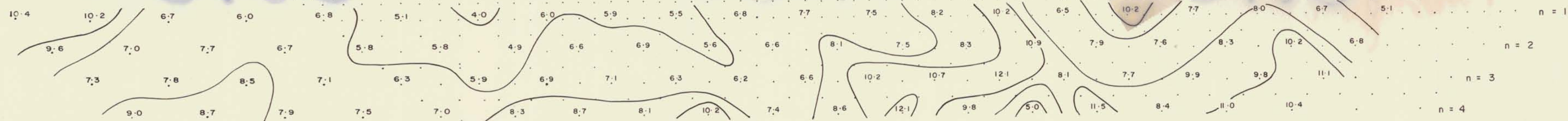
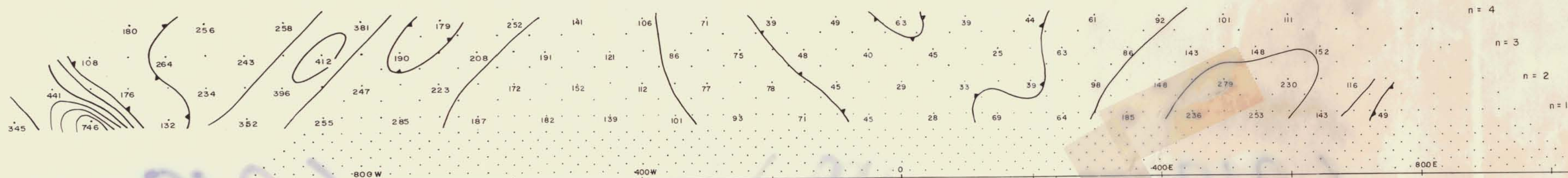
SCALE: 1:5000

CHARGEABILITY (Millivolts / volt)

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DWG.	I.P. 2746-4



RESISTIVITY (Ohmmeters x 10)



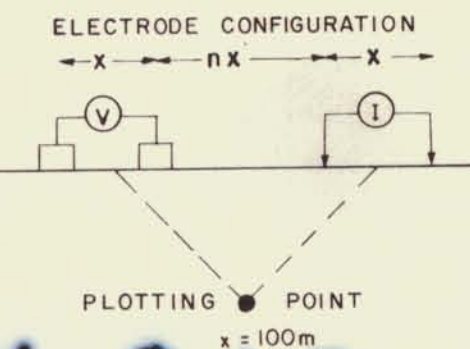
CHARGEABILITY (Millivolts / volt)



SCALE : 1 : 5000

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6018
MAP NO. #2

PART 2



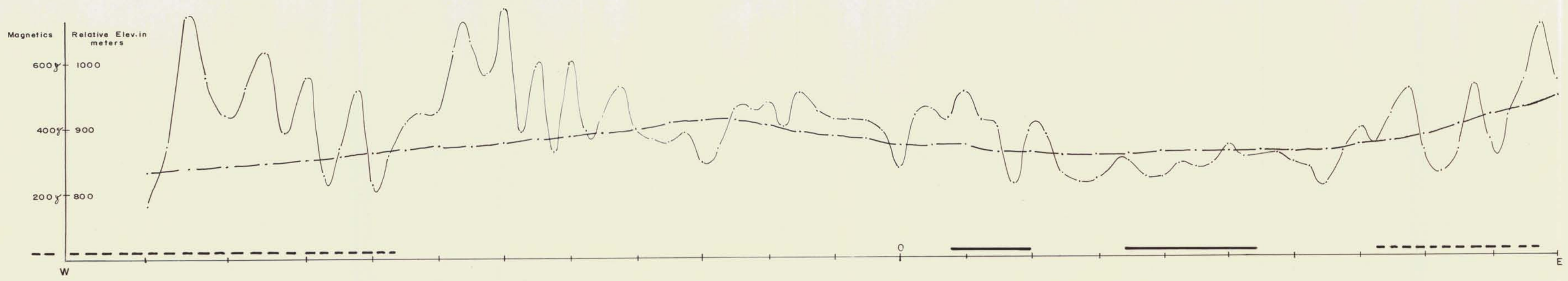
6018

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ALCO OPTION - B.C.

I. P. PSEUDOSECTION
L-12N

Aug. 1976 H. B. , D.S / e. b. DWG. I.P. 2746-1

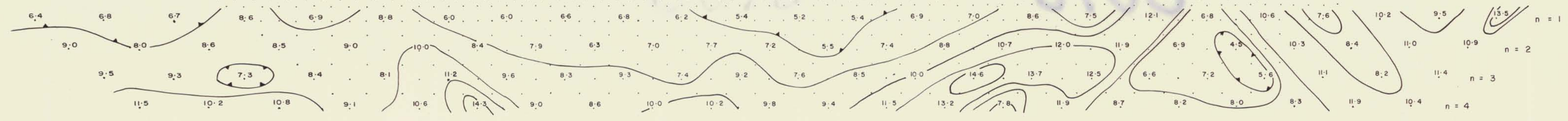
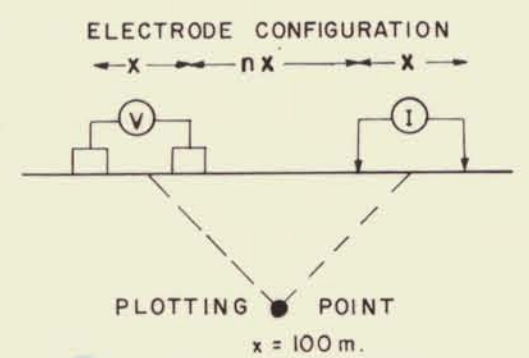
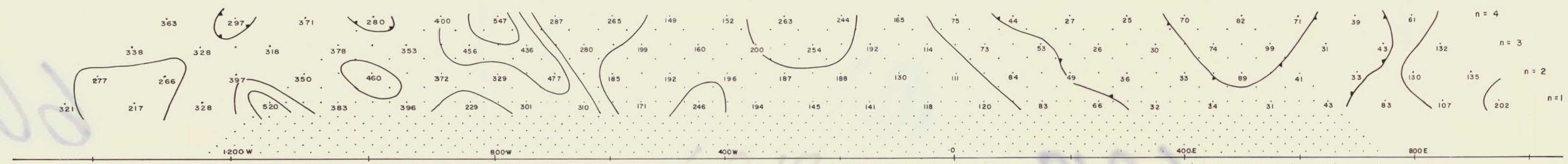


PART 2

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 NO. **6018**
 MAP NO. **#3**



RESISTIVITY (Ohmmeters x 10)

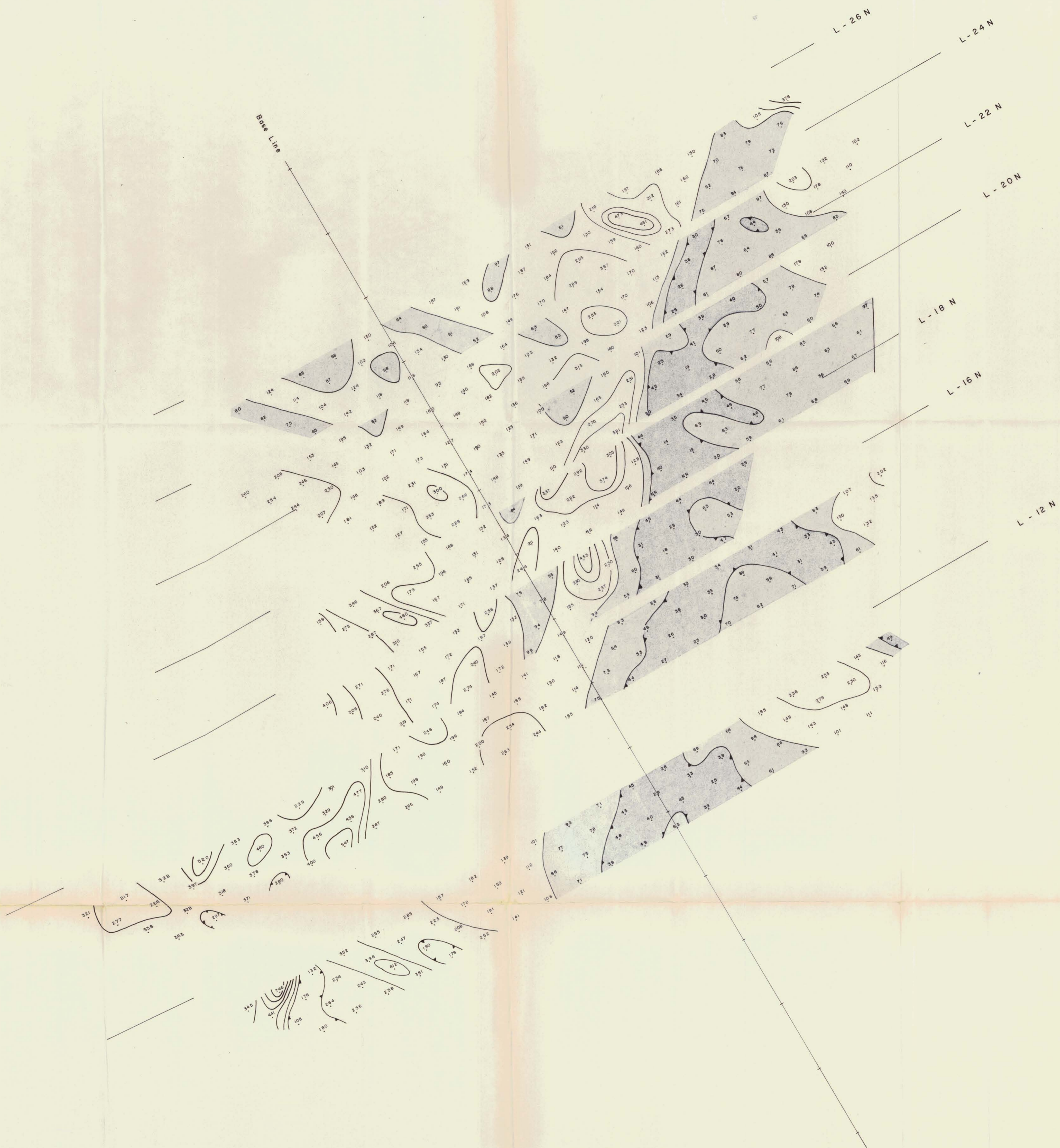


CHARGEABILITY (Millivolts / volt)

SCALE: 1:5000

6018

RIO TINTO CANADIAN EXPLORATION LTD.		
ALCO OPTION - B.C.		
I.P. PSEUDOSECTION L-16N		
Aug. 1976	H.B., D.S./e.b.	DWG. I.P. 2746-2

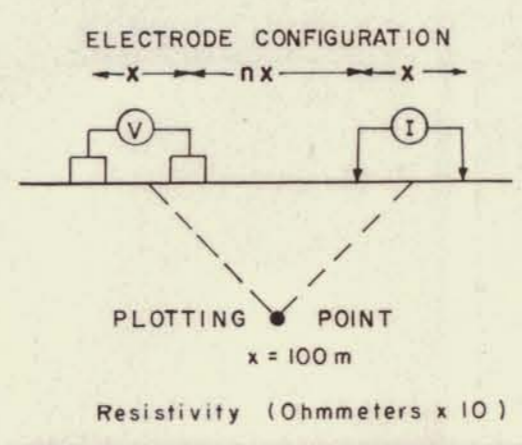


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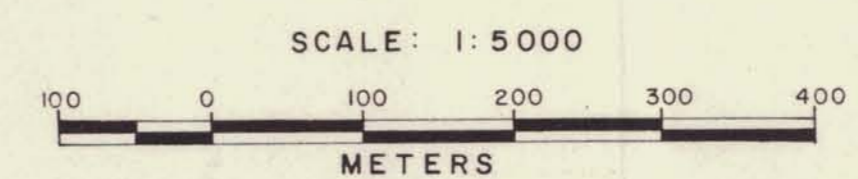
9018

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6018
MAP NO. #10

PART 2
6018



N.T.S.
82-E-9



RIO TINTO CANADIAN EXPLORATION LIMITED
ALCO OPTION - B.C.
STACKED PSEUDOSECTION
RESISTIVITY
July - 1976 H.B. / e.b. DWG. R - 4481