

85-1161-14361

GEOPHYSICAL SURVEY AND DIAMOND DRILLING REPORT

ON THE

Silver Cup, Silver Cup 1&2, Big Qua, Maple Leaf,  
Vincent, High Command, Sam, Golden Eagle 1 to 4,  
Tuya 1 to 4, Cor 1 to 3, Cor 1 to 3 fractions,  
Nez and Kea mineral claims, known as the

TOPLEY PROPERTY

LAT.  $54^{\circ}$  <sup>34.5'</sup> ~~22~~ N - LONG.  $126^{\circ}$  <sup>14'</sup> ~~13~~ W

N.T.S. 93L/9E, 9W

OMINECA MINING DIVISION

FILMED

Owned by: Bishop Resources Development Ltd.,  
W.H. Morris, L.Perry, Ronald Williams  
and K.F. Branner

Operated by: Bishop Resources Development Ltd.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

Prepared by

E.S. Holt, P.Eng.(B.C.)  
Holt Engineering Ltd.

November, 1985

**14,361**

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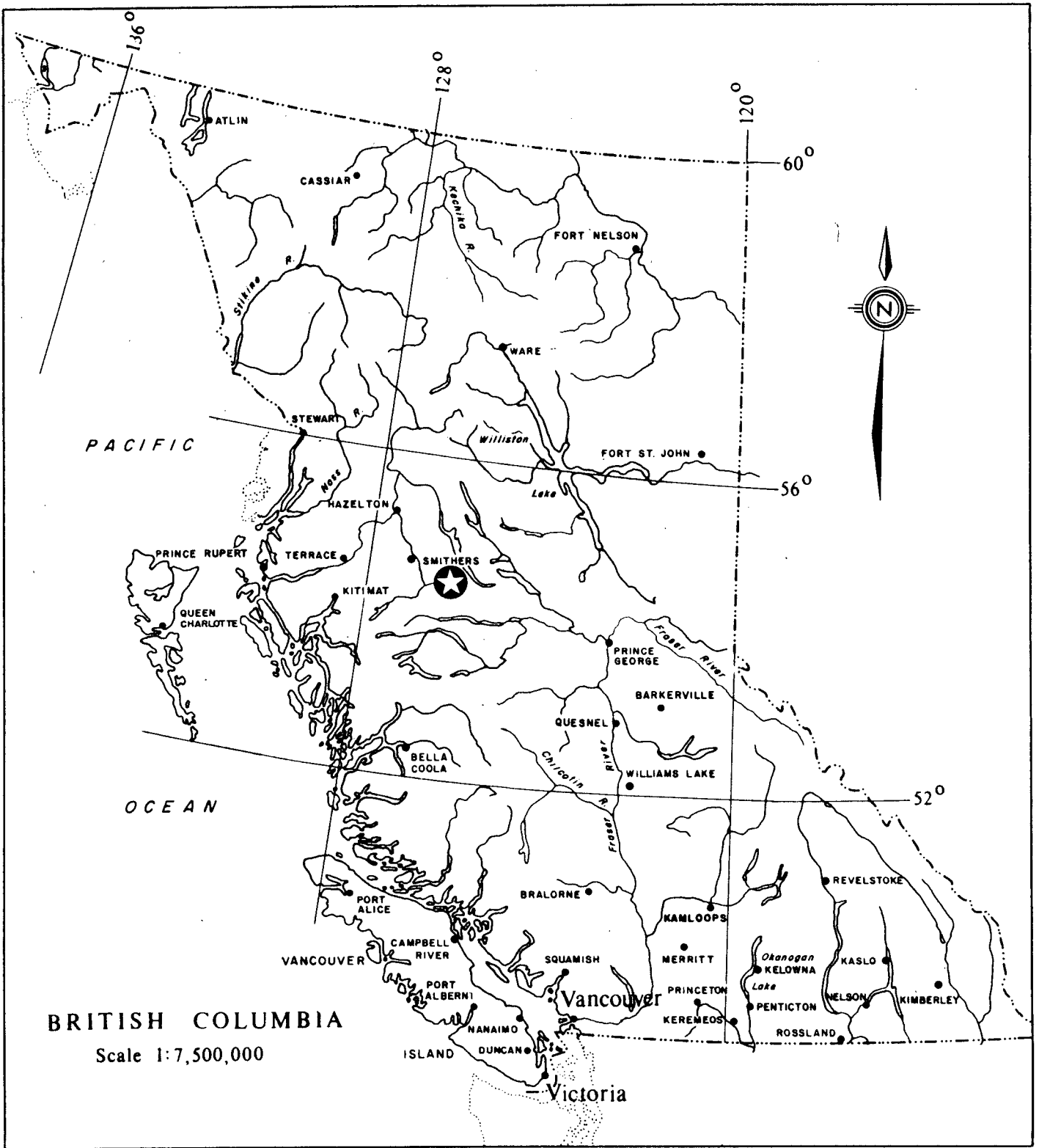
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### BOUND IN REPORT

- A report on "An Induced Polarization Survey" by Peter E. Walcott and Associates Limited, dated October, 1985.
- Drill Hole Geological Logs for holes 85-1 to 14 inclusive.
- Drill Hole Assay Logs for holes 85-9 to 14 inclusive
- Assay Certificates

### IN POCKET

- Contours of Apparent Resistivity, a = 50m, n = 1
- Contours of Apparent Resistivity, a = 50m, n = 2
- Contours of Apparent Chargeability, a = 50m, n = 1
- Contours of Apparent Chargeability, a = 50m, n = 2
- Drill Hole Location Plan, 1:5000
- Topographic Plan, 1:20,000



**TOPLEY PROPERTY**  
**PROJECT LOCATION**

## INTRODUCTION

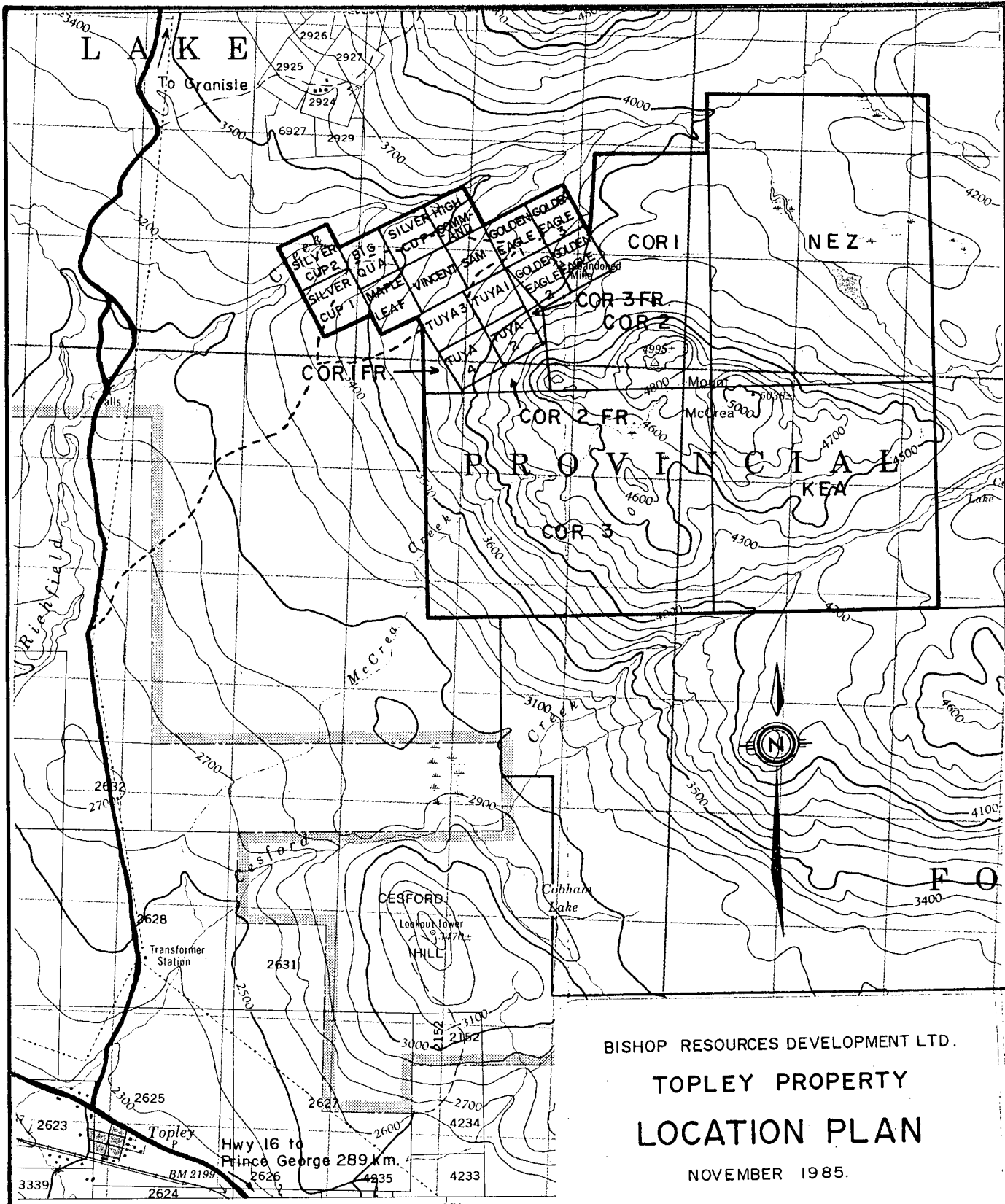
The Topley property is located within the Omineca Mining Division in the central interior of British Columbia, approximately 8 kilometres north-northeast of the village of Topley. The geodetic coordinates are  $54^{\circ} 32' N$ ,  $126^{\circ} 13' W$ .

Topley is serviced by the Yellowhead Highway and the main line of the C.N. Railway connecting Prince George and Prince Rupert. The property is accessible from Topley by travelling north on the paved Granisle-Babine Lake road for 4.4 kilometres, then north easterly on an improved gravel road for .5 kilometres, followed by a further 5.3 kilometres leading easterly to the Golden Eagle workings. The latter section of road is unimproved and limited to 4-wheel drive traffic during most of the field season.

To date, two types of mineral concentrations have been discovered on the property. In the Silver Cup area chalcopyrite, sphalerite and galena are associated with quartz carbonate veining and extensive alteration. The Golden Eagle mineralization occurs primarily as narrow veins and fracture fillings, but carries much higher concentrations of silver, with tetrahedrite being one of the principal sulphides present. The Silver Cup showings were discovered during the early 1900's with the first recorded work occurring during 1911. Significant exploration programs were carried out during the 1930's including development work in the form of pits, shafts and adits. Sporadic exploration and development activity has occurred over the years. During 1981, Bishop Resources Development Ltd. acquired the Silver Cup mineral claims and subsequently assembled a substantial claim block in the area.

The new operators pursued a vigorous exploration program including several thousand feet of diamond drilling.

The exploration work described in this report is part of Bishop's program to assess the mineral potential of the area.

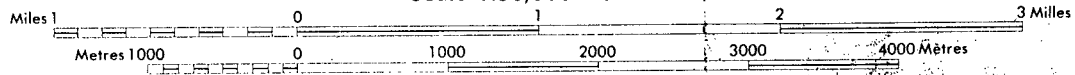


BISHOP RESOURCES DEVELOPMENT LTD.  
 TOPLEY PROPERTY  
 LOCATION PLAN  
 NOVEMBER 1985.

75 76 77 15' 79  
 Joins 93 L/8 190

**TOPLEY**  
 COAST LAND DISTRICT RANGE 5  
 BRITISH COLUMBIA

Scale 1:50,000 Échelle



## GEOPHYSICAL SURVEY

An induced polarization survey was carried out on the Topley property by Peter E. Walcott and Associates during the period August 19 to 31 inclusive. The survey specifications and results are discussed in detail in Mr. Walcott's report dated October 1985. His written report is bound with this report, while the drawings are provided in the pocket.

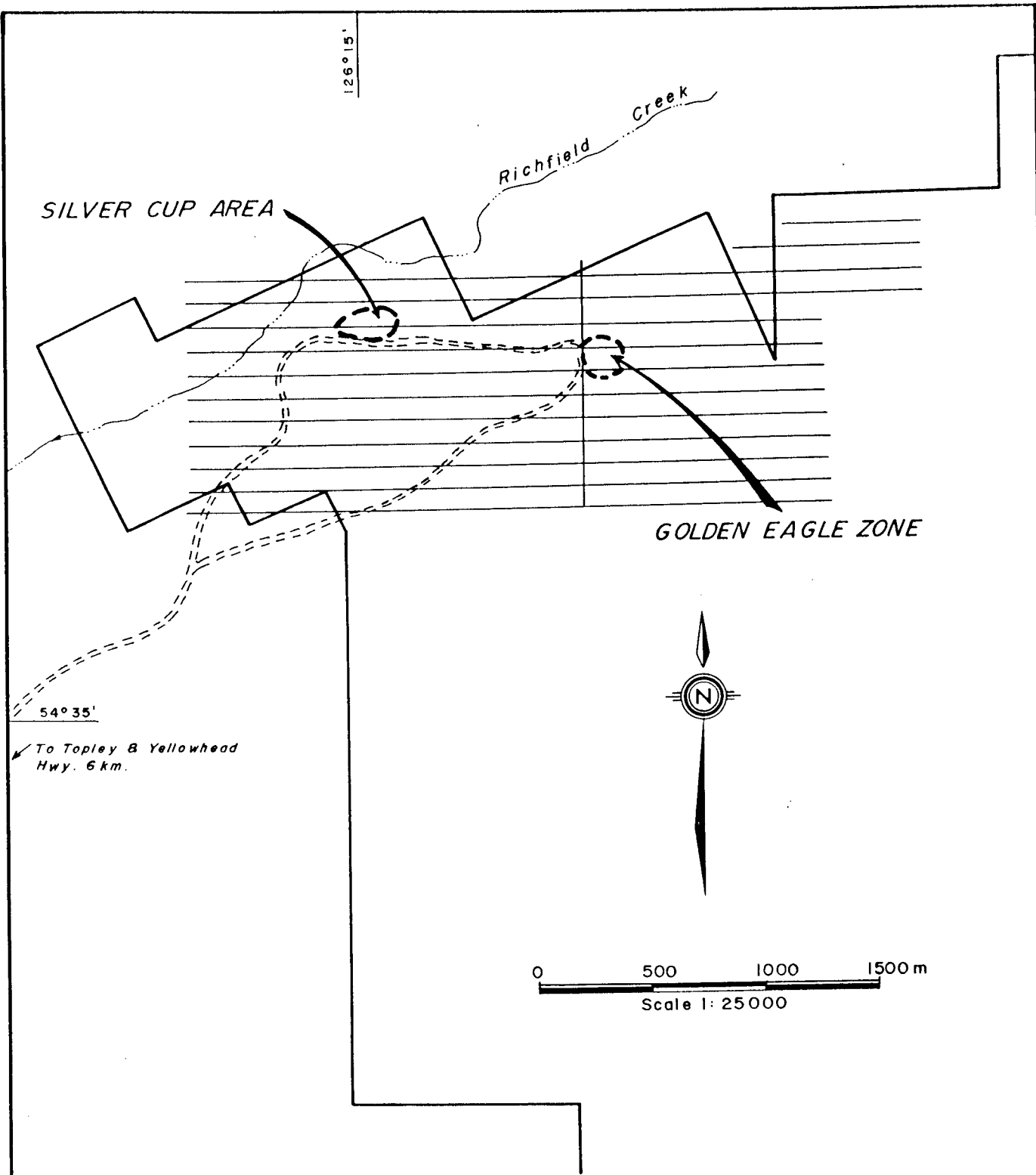
The survey covered 33 line kilometres in the northeastern portion of the claim block. This area includes the known Golden Eagle and Silver Cup deposits.

The principal objective of the survey was to investigate the possibility that other concealed sulphide concentrations occur in the area. The Golden Eagle zone, in particular, contains very high grade silver values in a network of narrow veins. Larger masses of such material would constitute a quality exploration target.

Control for the geophysical survey was established by preparing cut lines at 100 metre intervals with the lines running in an east-west direction. The line cutting and related chaining was done by Van Alphen Exploration Services of Smithers, under the supervision of Kevin F. Branner.

The survey grid was also utilized as control for geological mapping and a limited geochemical survey covering the eastern portion of the grid.

Detail of the induced polarization survey results are provided in Mr. Walcott's report which is appended and on the related drawings which are enclosed in the pocket.



BISHOP RESOURCES DEVELOPMENT LTD.  
 TOPLEY PROPERTY  
 Illustration of  
 GEOPHYSICAL GRID LINE COVERAGE

DATE: NOV. 1985.



## DRILLING REPORT

During the 1985 field season 14 diamond drill holes have been completed on the Topley property. A summary of the drilling is as follows:

<u>Hole</u>	<u>Dip</u>	<u>Footage</u>	<u>Area Tested</u>
1	-45°	69	Golden Eagle
2	-45°	69	Golden Eagle
3	-53°	80	Golden Eagle
4	-45°	89	Golden Eagle
5	-45°	89	Golden Eagle
6	-45°	99	Golden Eagle
7	-45°	88	Golden Eagle
8	-45°	72	Golden Eagle
9	-45°	297	Silver Cup
10	-45°	225	Golden Eagle
11	-65°	317	Golden Eagle
12	-50°	355	I.P.Anomaly E
13	-50°	337	I.P.Anomaly E
14	-50°	254	I.P.Anomaly D

The relative locations of the holes in the Golden Eagle area are illustrated by the drawing on the following page, while all of the 1985 drill collar locations are shown on Drawing #1 enclosed in the pocket. The letter drawing also shows the claim boundaries and survey grid relative to the drill hole locations.

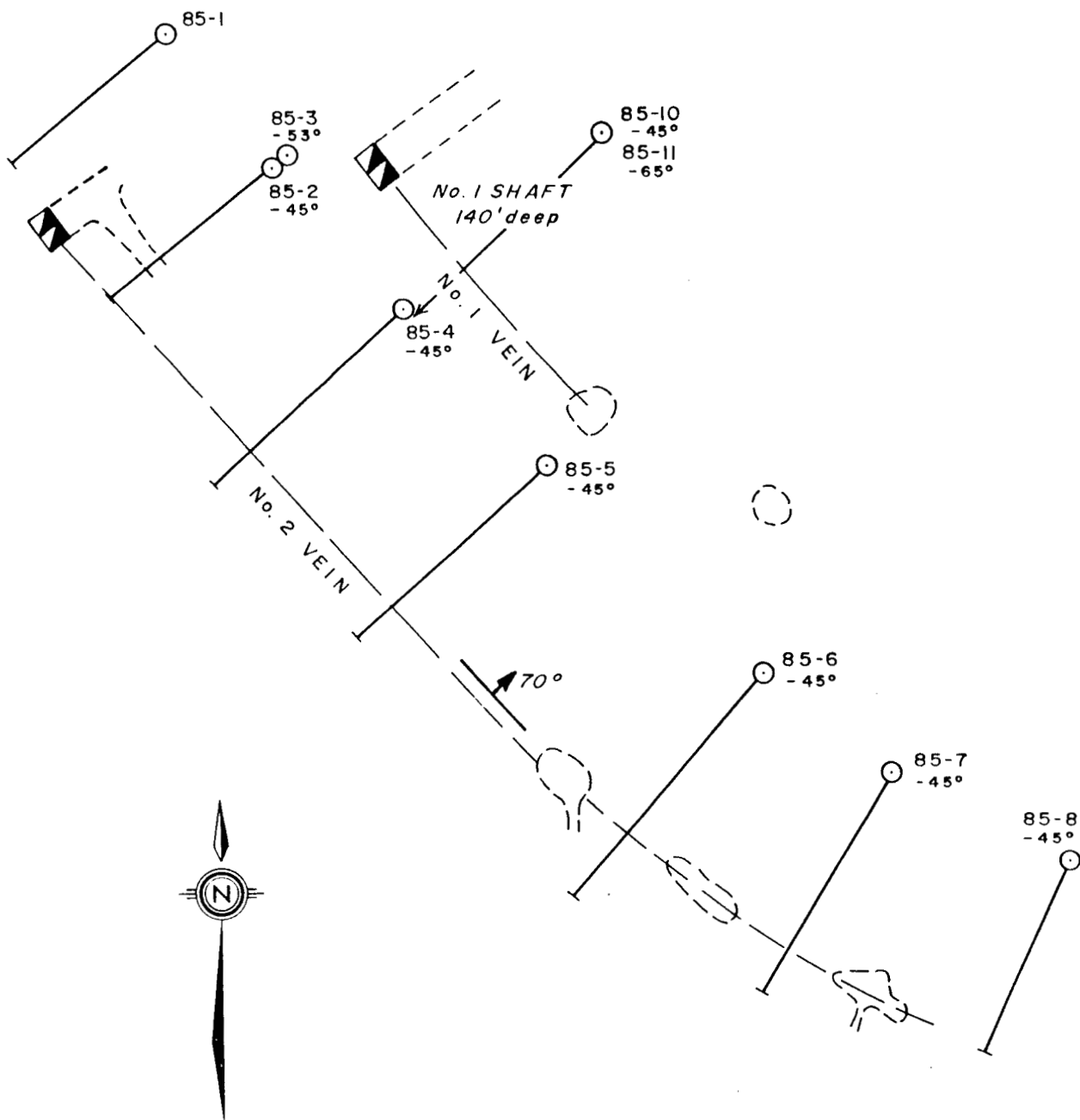
All the holes were drilled with NQ size equipment and recoveries were seldom less than 90%.

As will be noted in the summary above, ten of the holes were

SHAFT 1 A  
15' deep

# GOLDEN EAGLE ZONE DRILL COLLAR LOCATIONS 1985 DIAMOND DRILLING

Scale 1 : 480  
DATE : NOV. 1985.



drilled in the Golden Eagle area, five of which encountered significant mineralization:

<u>Hole</u>	<u>Interval</u> <u>in feet</u>	<u>%Cu</u>	<u>%Pb</u>	<u>%Zn</u>	<u>Ag</u> <u>oz/ton</u>	<u>Au</u> <u>oz/ton</u>
85-3	1.3	.16	.96	1.9	31.98	.046
85-4	1.7	.07	.59	1.28	10.18	.008
85-5	1.6	.37	1.34	.44	64.43	.044
	2.5	.63	15.29	3.17	76.27	.058
85-6	1.7	.23	3.58	1.54	38.08	.220
85-7	0.9	.06	.22	.06	21.91	.030

All of the well mineralized intervals displayed similar geologic characteristics. They are associated with quartz-carbonate vein material which was mineralized with stringers of galena, sphalerite, pyrite, chalcopyrite, tetrahedrite and minor amounts of other unidentified grey sulphides. The total sulphide content was generally less than 15% of the total vein material.

The vein occurs within a pyroclastic unit of the Hazelton Group which becomes bleached and highly altered adjacent to the vein. The host rock appears to be an altered lapilli tuff with some breccia size angular fragments of variable size and composition. The unit is characterized by highly variable colour, ranging from grey to redish green and brown. Silicification was fairly pervasive in the area drilled and epidotization occurred locally.

The drilling was designed to test the down dip extension of surface showings which had been exposed in old surface pits and one short inclined shaft. With three exceptions, the holes were drilled at -45 degrees and tested the vein structure approximately 40 feet below surface. The exceptions were hole number 85-3 which was steepened to 53 degrees in order to pass under a small stope which was penetrated by 85-2, and 85-10 and

11 which were designed to test the down dip extension of the vein structure.

As will be noted, the drilling tested approximately 300 feet of strike length. Hole number 85-7 encountered two major fault zones which could offset the structure to the south east. With the exception of the immediate area of the drilling, rock exposures are relatively rare and geological mapping is currently limited to the eastern half of the survey grid.

The assay results correspond to visual observations of the abundance of chalcopyrite, galena and sphalerite. In addition, there appears to be a distinct correlation between lead and silver content. Both the assay certificates and the drill logs are included as appendices.

Preliminary indications are that the Golden Eagle structure dips 70 degrees to the northeast. The true width of the vein would therefore be approximately 90% of the drill core interval.

Hole 85-9 was drilled to test a geologic theory regarding the attitude of the Silver Cup zone. Previous drilling in the vicinity encountered geologic conditions which were inconsistent and therefore subject to reinterpretation. An 18.4 metre (60.5 ft.) interval of highly altered pyroclastics was intersected from 67.7 to 86.1 metres. The zone was mineralized throughout with sulphides, iron oxides and minor quartz-carbonate occurring as fracture fillings and irregular stringers. Assay results indicate that the mineralization in this location does not carry significant precious metal values. The best intersection was a 3 m (10 foot) interval, commencing at 72.2m (237 ft.), which assayed 1.06% Zn, 0.54% Pb, 0.05% Cu, 17.3 grams per tonne silver and 0.21 grams per tonne gold.

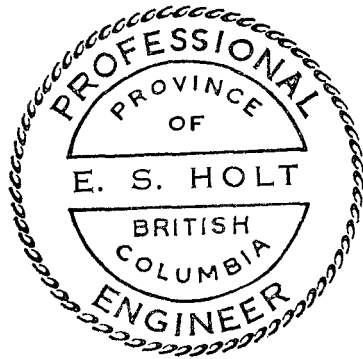
Holes 85-12, 13 and 14 were all drilled to test I.P. anomalies.

They encountered extensive intervals of maroon pyroclastics that were essentially unmineralized. The reason for the anomaly was not apparent from the drill core.

Detailed rock descriptions for each hole are provided in the appended "Drill Hole Geologic Log", while the assay results for the intervals assayed are shown in the "Drill Hole Assay Logs".

The core is stored in well constructed core storage racks adjacent to the Golden Eagle zone on the property.

Respectfully submitted,



*E. S. Holt*  
E.S. Holt, P.Eng.

APPENDIX A

STATEMENT OF COSTS

The 1985 exploration program on the Topley property was carried out by the following companies and individual employees:

BISHOP RESOURCES DEVELOPMENT LTD., Suite 914-1281 W. Georgia St., Vancouver, B.C., V6E 3J7

- carried out all diamond drilling and related access road improvement, utilizing company owned drill, tractor and field vehicles; provided on-site supervision and assistance for exploration contractors.

<u>NAME</u>	<u>OCCUPATION</u>	<u>DATES WORKED</u>
K.F. Branner (holes 85-1 to 15)	Manager, driller, Cat operator	March 20, 21, 25-29 Apr. 3,4,10,11,13,22-27 May 16,9-21,23,24,26-31 June 1,2,4-8,25-30 July 2-13 Oct. 8-13,15-27,28-31 Nov. 1-6. 16-19
B. Stanley (holes 85-4 to 11)	Drill helper	May 9-21,23,24,26-31 June 1,2,4-8,26-30 July 3-8,10-13
C. Stanley (holes 85-1 to 3)	Drill helper (fill in)	April 22-27
R. Fontaine (holes 85-12 to 15)	Drill helper	Oct. 11-13,15-20,24,31 Nov. 1,3-5,16-19

PETER E. WALCOTT & ASSOCIATES LTD., 605 Rutland Court, Coquitlam, B.C., V3J 3T8

- carried out the induced polarization survey. The work was done on a cost per kilometre of survey basis.

<u>NAME</u>	<u>OCCUPATION</u>	<u>DATES WORKED</u>
Peter E. Walcott	Geophysicist	Sept. 5, 26 Oct. 3,4,1985
G. MacMillan	Geophysical Operator	Aug. 19-31, Sept. 28-30, 1985
V. Pashniak	"	Aug. 19-31, 1985
D. Sloan	"	"
P. Charlie	"	"
R. Summerfield	Geophysical Helper	"
W. Jackson	"	Aug. 19-27, 1985
J. Walcott	Typing	Oct. 4, 1985

HOLT ENGINEERING LTD., 4091 St. Albans Ave., North Vancouver,  
B.C., V7N 1S9

- logged drill core, prepared reports and provided general geological consulting services (\$450 / day).

E.S. Holt	Geologist	May 22-25 June 4-8, 12-15 July 20,21 Aug. 26-31 Sept. 22,23 Oct. 29,30,31 Nov. 4-9, 22,25
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McELHANNEY SURVEYING & ENGINEERING, 200-1166 Alberni St.,  
Vancouver, B.C., V6E 1A5

- established on-site survey control and prepared 1:2500 scale topographic plan during the month of July, 1985. The work was done on a fixed price contract. Westland Helicopters provided support services while establishing the survey control.

VAN ALPHEN EXPLORATION SERVICES, P.O. Box 754, Smithers, B.C.,  
VOJ 2N0



- provided 33 kilometres of cut and picked grid line. The work was done for a contract price of \$350 / km.

<u>NAME</u>	<u>OCCUPATION</u>	<u>DATES WORKED</u>
Adrian Rollins	Compass man	Aug. 8 - 20 incl.
Keven Branner	Line Cutter	Aug. 8 - 20 incl.
Max Loutenbacher	Line Cutter	Aug. 8 - 15 incl.
Henke van Alpen	Supervisor	Aug. 8 - 20 incl.

As will be noted, the costs outlined on the following pages are designated according to specific time periods which correspond with anniversary dates. A significant portion of the 1985 exploration costs are not included in the statement as they did not coincide with assessment recording regulations.

In the interest of providing a complete report, 1985 holes 1 to 14 have all been included, even though the costs associated with same could not be utilized for assessment purposes.

WORK CONDUCTED BETWEEN April 1, 1985 and July 31, 1985 on the COR CLAIMS.

<u>CHEQUE NUMBER</u>	<u>ITEM</u>	<u>AMOUNT</u>
225	LONGYEAR CANADA, INC. ("38" REPAIR)	\$ 732.31
231	K. F. BRANNER (Advance on wages)	1,100.00
233	ACME ANALYTICAL LABS. LTD. (Assays, 85 1-3)	250.25
240	LONGYEAR CANADA, INC. (Bits, drill equip.)	4,770.88
246	PLEASANT VALLEY MOTEL (Accom. drill helper, engineering)	1,000.00
258	LONGYEAR CANADA, INC. (Bits, drill equip.)	3,413.26
262	HOLT ENGINEERING LTD. (Consulting services)	1,000.00
263	PLEASANT VALLEY MOTEL (Accom. drill helper, engineering)	500.00
265	RECEIVE GENERAL OF CANADA (Payroll remit. drill crew)	2,985.28
266	K. F. BRANNER (Wages, Golden Eagle drilling)	3,763.15
267	B. STANLEY (Wages, Golden Eagle drilling)	2,510.12
269	ACME ANALYTICAL LABS. LTD. (Assays 85-4 to 85-8)	455.00
277	HOLT ENGINEERING LTD. (Consulting services)	350.00
281	LONGYEAR CANADA, INC. (Bits, cheque for \$5,489.53, apply \$1,692.78 to Topley)	1,692.78
284	HOLT ENGINEERING LTD. (Consulting services)	3,406.69
306	B. STANLEY (Wages, Golden Eagle, Silver Cup drill)	1,219.54
309	K. F. BRANNER (Wages, Golden Eagle, Silver Cup drill)	1,861.86
329	RECEIVER GENERAL OF CANADA (Payroll remit. drill crew wages)	1,689.43
330	HOLT ENGINEERING LTD. (Consulting services)	1,369.60
	TOTAL	\$ <u>34,070.15</u>

<u>CHEQUE NUMBER</u>	<u>ITEM</u>	<u>AMOUNT</u>
290	WESTLAND HELICOPTERS (Field survey topo map)	\$ 4,158.30*
322	McELHANNEY SURVEYING & ENG. (Topo map, deposit)	1,500.00*
331	McELHANNEY SURVEYING & ENG. (Topo map, progress bill)	5,000.00*
332	VAN ALPHEN EXPL. SERVICES (Line-cutting, deposit)	2,000.00*
334	PETER E. WALCOTT & ASSOC. LTD. (I.P. Survey, deposit)	7,500.00**
340	McELHANNEY SURVEYING & ENG. (Topo map, bal. payment)	390.00*
349	VAN ALPHEN EXPL. SERVICES (Line-cutting, progress payment)	5,000.00*
364	HOLT ENGINEERING LTD. (Geological mapping and related consulting services)	3,468.49**
367	VAN ALPHEN EXPL. SERVICES (Line-cutting, final payment)	4,865.00*
376	PETER E. WALCOTT & ASSOC. LTD.	<u>17,253.00**</u>
	TOTAL	\$ <u>51,134.79</u>

NOTE: \* denotes work carried out between dates of  
July 1, 1985 and August 29, 1985. ( \$ 22,913.30 )

\*\* denotes work carried out between dates of  
August 15, 1985 and October 6, 1985. ( \$ 28,221.49 )

\* applied to Nez, Kea claims

\*\* applied to Silver Cup, Golden Eagle, Tuya claims

APPENDIX B

STATEMENT OF QUALIFICATIONS

I, Edward S. Holt of North Vancouver, British Columbia, do hereby certify:

1. that I am a geologist residing at 4091 St. Albans Avenue, North Vancouver, British Columbia,
2. that I am a Professional Engineer registered in the Province of British Columbia,
3. that I am employed by Holt Engineering Ltd., 4091 St. Albans Avenue, North Vancouver, British Columbia,
4. that I have personal knowledge of the Topley property, having visited the site on several occasions to log drill core, examine surface workings and carry out geological mapping.

Edward S. Holt

December 3, 1985  
North Vancouver, B.C.

PETER E. WALCOTT & ASSOC. LTD.

A REPORT

ON

AN INDUCED POLARIZATION SURVEY

Topley Area, British Columbia

54° 35'N, 126° 15'W

FOR

BISHOP RESOURCES DEVELOPMENT LTD.

Vancouver, B.C.

BY

PETER E. WALCOTT AND ASSOCIATES LIMITED

Vancouver, B.C.

OCTOBER 1985

GEOPHYSICAL SERVICES

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GRID LOCATION MAP .....	

ACCOMPANYING MAPS - Scale 1:5000

Map Pocket

CONTOURS OF APPARENT RESISTIVITY a = 50m, n = 1	W-373-1
"      "      "      "      , n = 2	W-373-2
CONTOURS OF APPARENT CHARGEABILITY a = 50 m, n = 1	W-373-3
"      "      "      "      , n = 2	W-373-4

INTRODUCTION.

Between August 19th and 31st, 1985, Peter E. Walcott & Associates Limited carried out an induced polarization (I.P.) survey over part of a property, located in the Topley area of British Columbia, for Bishop Resources Development Ltd.

The survey was carried out over east-west handcut lines that were turned off at right angles from a north-south baseline, and chained and picketed at 25 metre intervals.

Measurements (first and second separation) of apparent resistivity and chargeability (the I.P. response parameter) were made along the lines using the "pole-dipole" method of surveying and employing a 50 metre dipole.

The data are presented in contour form on plan maps of the grid that accompany this report.



PROPERTY, LOCATION AND ACCESS

The property is located in the Omineca Mining District of British Columbia and is situated some six kilometres north east of the settlement of Topley, British Columbia.

Access was obtained by means of four wheel drive vehicle along a bush road off the Topley Landing road, some four kilometres from its junction with the Yellowhead Highway, i.e. Hwy 16.

PREVIOUS WORK.

Previous work on the property consisted of drilling, shaft sinking and tunnelling from the 1920's, and more recently drilling and prospecting by Bishop Resources. The results of all this are documented in reports held by Bishop Resources Ltd.

PURPOSE.

The purpose of the survey was to examine the I.P. response (if any) of the known Silver Cup and Golden Eagle Zones, where economic sulphide intersections were encountered in more widespread mineralization, in an effort to define other zones of possible sulphide mineralization on the property.

GEOLOGY

The reader is referred to the forementioned reports held by Bishop Resources.

SURVEY SPECIFICATIONS.

The induced polarization (I.P.) survey was carried out using a pulse type system, the principal components of which are manufactured by Huntec Limited of Metropolitan Toronto, Ontario.

The system consists basically of three units: a receiver, a transmitter and a motor generator. The transmitter, which provides a maximum of 2.5 kw d.c. to the ground, obtains its power from a 2.5 kw 400 c.p.s. three phase alternator driven by a gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurement of the current (I) in amperes flowing through electrodes  $C_1$  and  $C_2$ , the primary voltage (V) appearing between the two potential electrodes,  $P_1$  and  $P_2$ , during the "current-on" part of the cycle, and the apparent chargeability ( $M_a$ ) presented as a direct readout using a 100 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a microprocessor.

The apparent resistivity ( $P_a$ ) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the "pole-dipole" method of surveying. In this method the current electrode  $C_1$ , and the two potential electrodes,  $P_1$  and  $P_2$ , are moved in unison along the survey lines. The spacing " $na$ " (n an integer) between  $C_1$  and  $P_1$  is kept constant for each traverse at a distance roughly equal to the depth to be explored by that traverse, while that of  $P_1$  and  $P_2$  (the dipole) is kept constant at " $a$ ". The second current electrode  $C_2$  is kept constant at "infinity".

Thus usually on a "pole-dipole" array traverse with an electrode spacing of 100 metres a body lying at a depth of 50 metres will produce a strong response, whereas the same body lying at a depth of 100 metres will only just be detected. By running subsequent traverses at different electrode separations, more precise estimates can be made of depth, width, thickness and percentage of sulphides of causative bodies located by the I.P. method.

SURVEY SPECIFICATIONS cont'd

A 50 metre dipole was used on the survey, and first and second separation measurements obtained.

In all some 33 kilometres of I.P. surveying were undertaken.

DISCUSSION OF RESULTS.

It should be mentioned here that the writer is composing this report with the aid of a map showing only the location of the adits, trenches and previous drill hole locations. For a more meaningful (?) review of the data the results should be related to widths and volume concentration of the mineralization.

However from a perusal of the former it can be noted that:

- (1) The background chargeability is of the order of 2 to 3 milliseconds, above which several anomalous zones outlined by the 5 millisecond contours are discernible.
- (2) The bulk of the Silver Cup drilling coincides with stronger portions of anomalous zone "A".
- (3) Adits to the east of the Silver Cup zone are coincident with the location of stronger chargeability responses within zone "A".
- (4) The narrow massive vein mineralization of the Golden Eagle zone is located within zone "B".
- (5) The three other major discernible zones, namely zones "C", "D" & "E", appear as yet, to the best of the writer's knowledge, to be untested as to their causative source (s) by drilling.

Zone "E", firstly detected at the eastern edge of the proposed coverage, with subsequent extension of the lines, is as yet undefined in all directions, and exhibits the strongest responses of the survey area. Although some credence should be given to the conjecture that a change in chargeability background occurs here, the suboutcropping geology suggests otherwise exhibiting no change across the end of the lines.

The resistivity data appear to do little except reflect outcrop and overburden conductivity as exemplified by the resistivity low obtained over the swampy ground in the southwest section of the grid.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS.

Between August 19th and 31st, 1985, Peter E. Walcott & Associates Limited undertook an induced polarization survey for Bishop Resources Development Ltd. over part of their property located near Topley, British Columbia, in an effort to outline major zones of sulphide mineralization within which they could search for significant amounts of economic mineralization, the existence of which is supported by the drill hole intersections to date.

The survey was carried out with a 50 metre dipole and first and second separation measurements were obtained.

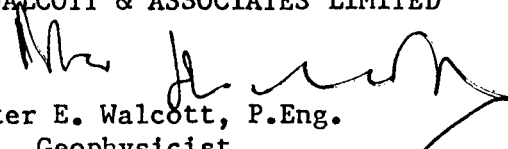
The chargeability results as to the detection of sulphides were confirmed by the previous drilling in the Silver Cup area, and outlined the presence of other zones, including the Golden Eagle zone, considered by the writer to have sulphide mineralization as their causative sources.

Accordingly he recommends that the forementioned zones "C", "D" & "E" be investigated by diamonddrilling. Although the holes should be spotted in the field by the geologist he suggests that 500 holes be collared so as to intersect the first separation highs some 40 metres below their peak values.

Should encouraging results be obtained from the investigation of zone "E", then additional I.P. surveying should be undertaken to properly define its extremities.

Respectfully submitted,

PETER E. WALCOTT & ASSOCIATES LIMITED

  
Peter E. Walcott, P.Eng.  
Geophysicist

Vancouver, B.C.

October 1985



APPENDIX  
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COST OF SURVEY

Peter E. Walcott & Associates Limited undertook the survey on a kilometre basis. Reporting costs were extra so that the total cost of services provided was \$25,953.00.

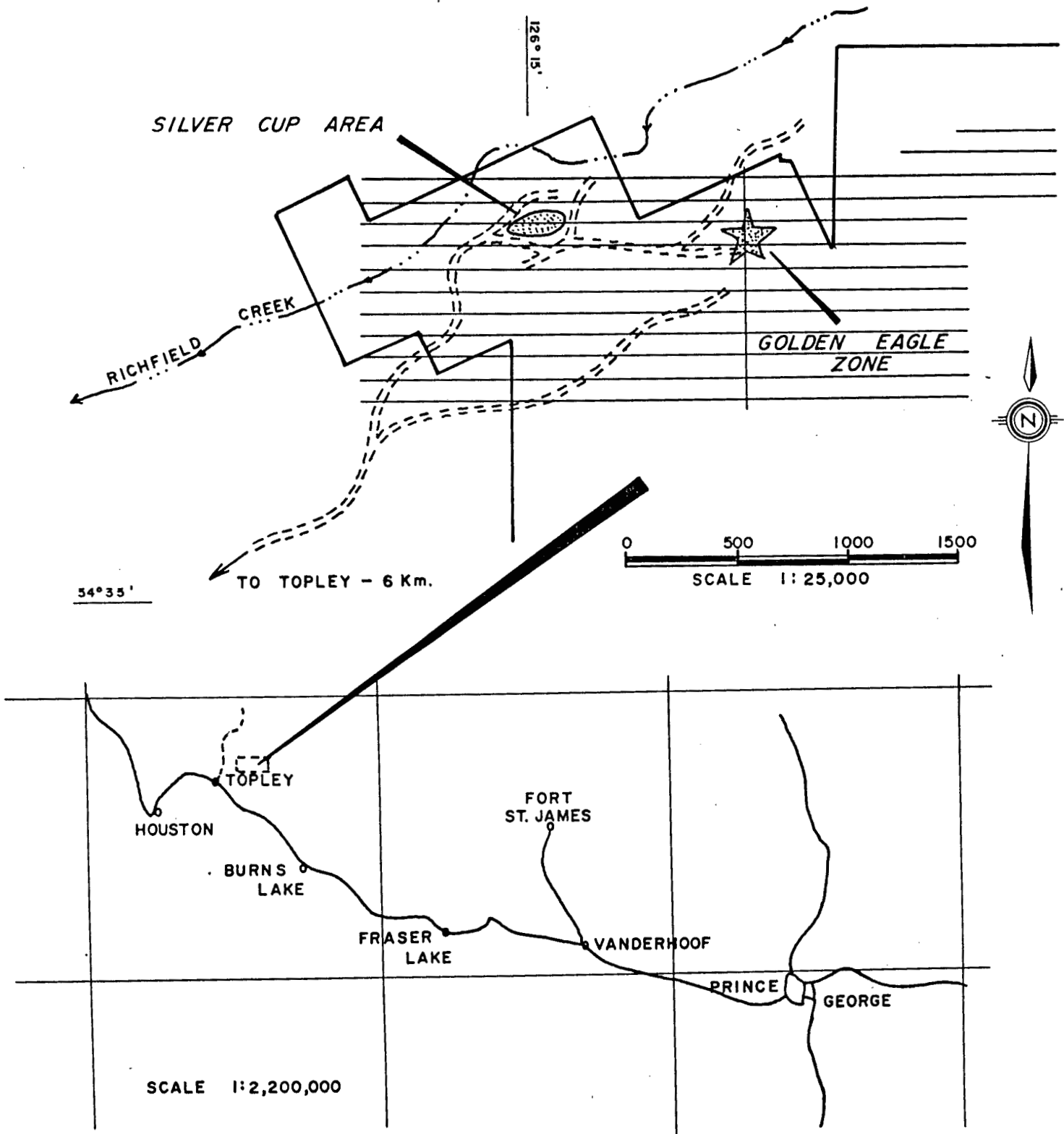
PERSONNEL EMPLOYED ON SURVEY

<u>Name</u>	<u>Occupation</u>	<u>Address</u>	<u>Dates</u>
Peter E. Walcott	Geophysicist	Peter E. Walcott & Assoc. 605 Rutland Court, Coquitlam, B.C. V3J 3T8	Sept 5th, 26th, Oct. 3rd, 4th, 85
G. MacMillan	Geophysical Operator	" "	Aug. 19th - 31st, Sept. 28 - 30th, 85
V. Pashniak	"	" "	Aug. 19th - 31st, 85
D. Sloan	"	" "	"
P. Charlie	"	" "	"
R. Summerfield	Geophysical Helper	" "	"
W. Jackson	"	" "	Aug. 19th - 27th, 85
J. Walcott	Typing	" "	Oct. 4th, 1985

# BISHOP RESOURCES DEVELOPMENT LTD.

## CLAIM LOCATION MAP

TOPLEY PROPERTY, OMINECA M.D., B.C.













DRILL HOLE RECORD

**BISHOP MINES LTD.**

#305, 1212 West Broadway, Vancouver, British Columbia V6H 1G6

Property	<i>TOPLEY</i>	District	<i>OMINECA</i>	Hole No.	<i>85-3</i>	Length	<i>80 ft</i>
Commenced		Location	<i>Golden Eagle</i>	Tests at		Hor. Comp.	
Completed		Core Size	<i>NQ</i>	Corr. Dip	<i>-53°</i>	Vert. Comp.	
LAT.	DEP.	ELEV.		True Brg.	<i>231°</i>	Logged by	<i>E.S.H</i>
Objective				% Recov.	<i>Est 90%</i>	Date	<i>May 23, 85</i>

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS							
			RUN	SHORT				Cu	Pb	Zn	Ag	Au	% Recovery		
0 - 1.5	Overburden														
1.5 - 60.0	Andesite Flow with increasing number of coarse angular fragments with depth mottled green and purplish groundmass with scattered epidate (?) patches and altered feldspar phenocrysts, qtz-carb. healing random oriented tight fractures, increasing silicification, vague banding in several locations at 60° to core, gradational contact with section below														
60.0 - 77.0	Alteration Zone, light grey-green to white, 15% milky quartz-carbonate stringers mainly concentrated in the central zone, (45 to 90° to core) significant pale-green alteration, some hematite staining														
	69.5 - 71.0 weakly mineralized with disseminated pyrite and rare Pb-Zn				69.5-71.0	5505	1.5	.01	.01	.02	.03	.002			92%
	71.0 - 72.3 mineralized section with 30% milky quartz-carbonate, 5% fine py and a few blebs of coarse Pb + Zn along with bands of fine grey				71.0-72.3	5506	1.3	.16	.96	1.90	31.98	.046			70%
					72.3-74.9	5507	2.6	.01	.11	.14	.09	.003			95%

DRILL HOLE RECORD

**BISHOP MINES LTD.**

#305, 1212 West Broadway, Vancouver, British Columbia V6H 1G6

Property	TOPLEY		District	Omineca	Hole No.	85-4	Length	89 ft.
Commenced	Location		Golden Eagle		Tests at	Hor. Comp.		
Completed	Core Size		N Q		Corr. Dip	-45°		
LAT.	DEP.	ELEV.		True Brg.	231°		Logged by E.S.H	
Objective			% Recov.	95 est.		Date 23/5/85		

Claim	T Brg.	Collar Dip	Elev.	Length
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METERS (FE) from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS							
			RUN	SHORT				Cu	Pb	Zn	Hg	Au	% Recovery		
0 - 4.0	Overburden														
4.0 - 49.0	Andesitic Breccia, mottled dark green + grey rock with some distinct angular fragments of variable hardness, increasing silicification and alteration, local patchy epidote, minor quartz-carbonate healing tight fractures, gradational contact with altered zone below 37.7 - 15" bleached zone containing 10% quartz-carbonate														
49.0 - 80.0	Alteration Zone, bleached light green to grey with mineralization as noted below, gradational contacts, 2" fault gouge at 56', stringers and bands of quartz-carbonate mainly 60 to 90° to core														
	50.5 - 53.5, 3% sulphides including tetrahedrite as fine stringers or blebs, mainly pyrite, 5% Qtz-CO <sub>2</sub>					50.5	5512	3.5	.01	.08	.14	.23	.005		85%
	53.5 - 56.5, est 3% sulphides with quartz stringers or along narrow					53.5	5513	3.0	.01	.05	.11	.28	.001		98%
						56.5	5514	2.0	.01	.01	.02	.05	.001		95%
						58.5									
						61.8/63.5	5515	1.7	.07	.59	1.28	10.18	.008		80%





















DRILL HOLE RECORD

**BISHOP MINES LTD.**

#305, 1212 West Broadway, Vancouver, British Columbia V6H 1G6

Property	TOPLEY			District	Omineca	Hole No.	85-9	Length	
Commenced				Location	Silver Cup	Tests at		Hor. Comp.	
Completed				Core Size		Corr. Dip		Vert. Comp.	
LAT.	DEP.	ELEV.		True Brg.		Logged by		E. S. H.	
Objective				% Recov.		Date		June 7, 85	

Claim	T Brg.	Collar Dip	Elev.	Length
-------	--------	------------	-------	--------

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS					
			RUN	SHORT							% Recovery		
0 - 19.0	Overburden												
19.0 - 40.0	Volcanic Breccia, dark green, coarse angular fragments in ash matrix, dense, silicious, some frags up to 2 cm., variable, mainly dark green, gradational contact 21.5 - 4" fault gouge												
40.0 - 43.0	Altered Zone, volcanic breccia, as above but moderately bleached to pale green, 10% irregular quartz-carbonate stringers bearing minor coarse galena and pyrite, principal stringers at shallow angle to core												
43.0 - 172.0	Volcanic Breccia, dense dark green rock with 10% coarse angular fragments in a silicious ash matrix, hematite staining along fractures, local epidatization 130' narrow bleached zones enveloping small stringers												

Note: See assay log for sampling results

DRILL HOLE RECORD

**BISHOP MINES LTD.**

#305, 1212 West Broadway, Vancouver, British Columbia V6H 1G6

Property	<b>TOPLEY</b>	District		Hole No.	<b>85-9</b>	Length	
Commenced		Location		Tests at		Hor. Comp.	
Completed		Core Size		Corr. Dip		Vert. Comp.	
LAT.	DEP.	ELEV.		True Brg.		Logged by	
Objective				% Recov.		Date	

Claim	T Brg.	Collar Dip	Elev.	Length
-------	--------	------------	-------	--------

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS					
			RUN	SHORT							% Recovery		
	148'-1cm qtz-carb stringer												
	165-172, 2% qtz-carb stringers												
172.0-175.0	Volcanic Breccia, as above with some fracturing, healed with silica, minor pyrite and iron oxides (hematite), moderate quartz sericite alteration												
175.0-182.5	Volcanic Breccia, medium green, dense silicious breccia, 10% dark green angular fragments in ash matrix, tight fractures healed with quartz carbonate												
182.5-187.2	Athletic Zone, volcanic breccia, as above with strong quartz sericite alteration, disseminated pyrite and magnetite (?) a few narrow qtz stringers carrying rare coarse galena and tetrahedrite, vague breccia fragments, gradational contacts above and below, rock is relatively soft, bleached to												

Note: See Assay Log for sampling results

DRILL HOLE RECORD

**BISHOP MINES LTD.**

#305, 1212 West Broadway, Vancouver, British Columbia V6H 1G6

Property	TOPLEY		District		Hole No.	85-9	Length	
Commenced			Location		Tests at		Hor. Comp.	
Completed			Core Size		Corr. Dip		Vert. Comp.	
LAT.	DEP.	ELEV.			True Brg.		Logged by	
Objective					% Recov.		Date	

Claim	T Brg.	Collar Dip	Elev.	Length
-------	--------	------------	-------	--------

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS					
			RUN	SHORT							% Recovery		
	pale yellowish-green with some colorful fragments												
187.2-199.5	Volcanic Breccia, dark green, andesitic, rare coarse angular fragments, tight fractured healed with silica.												
	192' - sulphides in 3 mm qtz band												
	197' - increasing alteration												
199.5-222.0	Altered Volcanic Breccia, variable pale and dark green, moderate quartz-sericite alteration, some narrow fractures healed with carbonate, minor disseminated pyrite and magnetite, local black sulphides as stringers or blebs	2%											
	215' concentration of grey sulphides												
	219' stringer of sulphides together with hematite												
222.0-255.0	Alteration Zone, pale buff to grey, highly altered volcanic breccia with several qtz-carbonate	4%											

Note: See Assay Log for sampling results







TOPLEY PROPERTY

Drill hole number 85-10  
 Core type NQ  
 Date July 20, 1985  
 Logged by E. S. Holt  
 Page 1 of 3

DRILL HOLE GEOLOGIC LOG

Northing \_\_\_\_\_  
 Easting \_\_\_\_\_  
 Elevation \_\_\_\_\_  
 Dip -45°  
 Bearing 225°  
 Total Length 182 ft

Alteration Scale

- 5 - Extreme Alteration
- 4 - High Alteration
- 3 - Moderate Alteration
- 2 - Some Alteration
- 1 - Weak Alteration
- 0 - No Alteration

Footage		Description	Graphic Log		Alteration					
From	To		Sketch	Remarks	Sil.	Clay	Chl.	Carb.	Seri.	Ep.
0	10.5	Overburden								
10.5	56.0	Andesitic Breccia, mottled dark green with coarse angular fragments in an ash matrix, 10% white phenocrysts, local epidote			3		2	1		3
56.0	59.5	Alteration Zone with quartz-carbonate and sulphide stringers, some host rock as above but bleached to creamy grey color with 15% milky white quartz-carbonate and 5% sulphides (primarily sphalerite, pyrite and galena contacts gradational over about 4"		gradational contact	5			3	3	
59.5	131.5	Andesitic Breccia, as above, pyroclastic rock with coarse angular fragments, local epidote and hematite, dark			3		1	1		3

DRILL HOLE GEOLOGIC LOG

Hole Number 85-10  
Page 2 of 3

Footage		Description	Graphic Log		Alteration						
From	To		Sketch	Remarks	Sil.	Clay	Chl.	Carb.	Seri.	Ep.	
		72.5 - 24" altered zone with minor fine sulphides									
		85' - 6" bleached zone									
		87 to 95' local sections with apple green and pink alteration									
		101.5 - 2" bleached zone									
		117.5 - epidote stringers									
131.5	147.2	Altered Zone, bleached grey rock with bands of quartz carbonate mainly at 70° to core, minor sulphides in bands, est 7% qtz-carb 2% sulphides			4			2	2		
		132.5 - 8" quartz-carbonate									
147.2	158.0	Andesite Breccia, as above with local purple sections, some fine quartz-carbonate healing fractures, rare soft clasts, gradational contacts			2	1		1		2	
		158.0 - 172.0 Altered Zone, intermittent quartz-carbonate stringers			4			3	1		



TOPLEY PROPERTY

DRILL HOLE GEOLOGIC LOG

Drill hole number 85-11  
 Core type NQ  
 Date July 20, 1985  
 Logged by E. S. Holt  
 Page 1 of 5

Northing \_\_\_\_\_  
 Easting \_\_\_\_\_  
 Elevation \_\_\_\_\_  
 Dip -65°  
 Bearing 225°  
 Total Length 268 ft

Alteration Scale

- 5 - Extreme Alteration
- 4 - High Alteration
- 3 - Moderate Alteration
- 2 - Some Alteration
- 1 - Weak Alteration
- 0 - No Alteration

Footage		Description	Graphic Log		Alteration							
From	To		Sketch	Remarks	Sil.	Clay	Chl.	Carb.	Seri.	Ep.		
0	7.0	Overburden										
7.0	56.0	Andesite Breccia, mottled dark green rock with coarse angular fragments, hard dense rock, most frags contain milky phenocrysts, sharp contact with altered zone below 43.5' - 15" broken zone			3		2			1		
56.0	62.7	Altered Zone, bleach pale grey rock enveloping gtz-carbonate stringers carrying minor sp, py and galena, host rock is same as above, lower contact gradational 56.4 - 4" stringer			4			2	1			
62.7	93.4	Andesite Breccia, typical dark green pyroclastic with variable angular fragments, dense, brittle, some milky phenocrysts			3		2			1		

DRILL HOLE GEOLOGIC LOG

Hole Number 85-11  
Page 2 of 5

Footage		Description	Graphic Log		Alteration						
From	To		Sketch	Remarks	Sil.	Clay	Chl.	Carb.	Seri.	Ep.	
93.4	104.2	Altered Zone, primarily pale grey bleached zone enveloping narrow quartz-carbonate stringers, abrupt contacts, softer than host rocks above and below 95.6 - 3' minor alteration 102' - 12" with sulphides healing fine fractures			3	2		4	1		
104.2	160.0	Andesite Breccia, variable dark green rock consisting of coarse angular fragments mottled with pale green & milky phenocrysts, quartz-carbonate healing tight fractures, local epidoteization 124' - 6" bleached zone enveloping 1/4" stringers			2		2			1	
160.0	169.5	Altered Zone, pale grey or green bleached zone encompassing several quartz carbonate stringers, minor sulphides in stringers or healing narrow fractures			3	1		4	1		

DRILL HOLE GEOLOGIC LOG

Hole Number 85-11  
Page 3 of 5

Footage		Description	Graphic Log		Alteration							
From	To		Sketch	Remarks	Sil.	Clay	Chl.	Carb.	Seri.	Ep.		
		168'-2" stringer										
169.5	183.5	Andesite Breccia, as above dense dark green rock with vague angular fragments of coarse breccia, minor carbonate healing tight fractures			3		2					
183.5	186.5	Altered Zone, typical bleached section with narrow qtz-carb stringers and minor coarse sulphides			3	1		4	1			
186.5	188.3	Andesite Breccia, dense, hard purplish green rock with dark green fragments, pyroclastic, highly siliceous			4		1		1			
188.3	228.5	Altered Zone, variable as detailed below, some sect- ions adjacent to stringers are highly bleached while other intervals retain original color, all pyroclastics, ash and lapilli with some coarse fragments, intermittent sulphide mineralization			4			3	2			

DRILL HOLE GEOLOGIC LOG

Hole Number 85-11  
 Page 4 of 5

Footage		Description	Graphic Log		Alteration							
From	To		Sketch	Remarks	Sil.	Clay	Chl.	Carb.	Seri.	Ep.		
		healing fractures of with qtz-carbonate stringers										
		188.3 - 24" bleached ash with sulphide along fractures (nice plumbing system)	**									
		191 - moderate alteration										
		193.7 - weak alteration										
		197.0 - 12" - 50% qtz-carb minor coarse sulphides										
		198.0 - moderate alteration										
		205.0 - silicious, with stringers and blebs of py, sp + galena	***									
		206.8, silicious, minor sulphides	**									
		211.0 trace sulphides along fractures	*									
		213.0 silicious, as above but only rare sulphides										
		220.0 moderate alteration, some hemite, carbonate healing fractures, local bleaching										
		227.0 - 6" qtz vein, minor sulph										
228.3	241.5	Andesite Breccia, typical dark green pyroclastic, mottled, hemite along fractures, dense silicious rock band			2		2				1	

























DRILL HOLE ASSAY LOG

PROPERTY TOPLEY  
 DRILL HOLE NO. 85-9  
 DRILL TYPE NQ  
 DATE June 7, 1985

NORTHING \_\_\_\_\_  
 EASTING \_\_\_\_\_  
 ELEVATION \_\_\_\_\_  
 DIP -45°

BEARING \_\_\_\_\_  
 TOTAL LENGTH \_\_\_\_\_  
 LOGGED BY E.S.H.  
 PAGE 1 of \_\_\_\_\_

Sample Number	Interval			Recovery		Geologic Notes	Assay Results				
	From	To	Length	Wt.	%		G/T Ag	G/T Au	%Cu	%Zn	%Pb
	0	19.0				Overburden					
	19.0	40.0			92	Volcanic Breccia					
5532	40.0	43.0	3.0		90	Altered Zone	2.2	.01	.006	.12	.14
	43.0	172.0			98	Volcanic Breccia					
5533	172.0	175.0	3.0		92	Volcanic Breccia, mineralized	0.1	.01	.003	.01	.01
	175.0	182.5			97	Volcanic Breccia					
5534	182.5	187.2	4.7		98	Altered Zone	0.1	.04	.005	.01	.02
	187.2	199.5			100	Volcanic Breccia					
5535	199.5	209.0	9.5		98	Altered Volcanic Breccia	0.1	.01	.006	.01	.01
5536	209.0	216.0	7.0		96	Altered Volcanic Breccia	0.1	.01	.002	.01	.01
5537	216.0	222.0	6.0		96	Altered Volcanic Breccia	0.1	.04	.003	.01	.01
5538	222.0	227.0	5.0		100	Alteration Zone	0.1	.02	.004	.01	.01
5539	227.0	232.0	5.0		98	Alteration Zone	6.0	.13	.016	.54	.50
5540	232.0	237.0	5.0		100	Alteration Zone	2.0	.11	.010	.30	.15
5541	237.0	242.0	5.0		100	Alteration Zone	18.0	.28	.046	1.67	.48
5542	242.0	247.0	5.0		98	Alteration Zone	16.5	.15	.036	.45	.60
5543	247.0	252.0	5.0		98	Alteration Zone	1.0	.02	.005	.06	.09
5544	252.0	255.0	3.0		96	Alteration Zone	0.1	.01	.004	.01	.01
5545	255.0	261.0	6.0		99	Mineralized Alteration Zone	0.2	.01	.004	.01	.01
5546	261.0	267.0	6.0		97	Mineralized Alteration Zone	15.0	.42	.020	.06	.16
5547	267.0	272.0	5.0		95	Alteration Zone	0.2	.06	.004	.04	.04
5548	272.0	277.0	5.0		97	Alteration Zone	0.1	.01	.004	.01	.02
5549	277.0	282.5	5.5		97	Alteration Zone	0.1	.01	.004	.01	.01

DRILL HOLE ASSAY LOG

PROPERTY TOPLEY  
 DRILL HOLE NO. 85-10  
 DRILL TYPE NQ  
 DATE July 20, 1985

NORTHING \_\_\_\_\_  
 EASTING \_\_\_\_\_  
 ELEVATION \_\_\_\_\_  
 DIP -45°

BEARING 225°  
 TOTAL LENGTH 182 Ft.  
 LOGGED BY E.S.H.  
 PAGE 1 of 1

Sample Number	Interval			Recovery		Geologic Notes	Assay Results				
	From	To	Length	Wt.	%		G/T Au	G/T Ag	%Cu	%Zn	%Pb
	0	10.5				Overburden					
	10.5	56.0			95	Andesite Breccia					
2151	56.0	57.5	1.5		98	Alteration Zone	.042	3.90	.04	3.40	.16
2152	57.5	59.5	2.0		93	Alteration Zone	.001	.28	.01	.05	.07
	59.5	72.5			97	Andesite Breccia					
2153	72.5	74.5	2.0		100	Andesite Breccia (altered)	.001	.04	.01	.02	.01
	74.5	131.5			97	Andesite Breccia					
2154	131.5	132.4	0.8		99	Altered Zone	.002	.01	.01	.01	.01
2155	132.4	133.4	1.0		96	Altered Zone	.017	12.55	.07	.40	.21
2156	133.4	136.2	2.8		100	Altered Zone	.002	.05	.01	.12	.07
	136.2	139.6	3.4		98	Altered Zone (less intense)					
2157	139.6	147.2	7.6		95	Altered Zone	.001	.10	.01	.06	.03
	147.2	158.0			96	Andesite Breccia					
	158.0	159.6	1.6		90	Altered Zone					
2158	159.6	162.5	2.9		94	Altered Zone	.001	.15	.01	.02	.02
2159	162.5	167.2	4.7		94	Altered Zone	.013	10.39	.09	4.49	.30
2160	167.2	172.0	4.8		98	Altered Zone	.001	.07	.01	.03	.03
	172.0	182.0			97	Andesite Breccia					
						182 Ft - End of Hole					

DRILL HOLE ASSAY LOG

PROPERTY TOPLEY  
 DRILL HOLE NO. 85-11  
 DRILL TYPE NO  
 DATE July 20, 1985

NORTHING \_\_\_\_\_  
 EASTING \_\_\_\_\_  
 ELEVATION \_\_\_\_\_  
 DIP -65°

BEARING 225°  
 TOTAL LENGTH 268 ft  
 LOGGED BY E.S.H  
 PAGE 1 of 2

Sample Number	Interval			Recovery		Geologic Notes	Assay Results							
	From	To	Length	Wt.	%		G/T Au	G/T Ag	%Cu	%Zn	%Pb			
	0	7.0				Overburden								
	7.0	56.0			90	Andesite Breccia								
2161	56.0	58.5	2.5		94	Altered Zone	.009	.27	.01	.62	.06			
2162	58.5	62.7	4.2		97	Altered Zone	.001	.03	.01	.02	.02			
	62.7	93.4			99	Andesite Breccia								
2163	93.4	95.6	2.2		99	Altered Zone	.001	.11	.01	.08	.04			
	95.6	98.6			95	Altered Zone (visually barren)								
2164	98.6	104.2	5.6		97	Altered Zone	.008	1.42	.01	.59	.47			
	104.2	160.0			94	Andesite Breccia								
2165	160.0	165.0	5.0		98	Altered Zone	.002	.04	.01	.03	.01			
2166	165.0	169.5	4.5		97	Altered Zone	.005	.20	.01	.16	.12			
	169.5	183.5			99	Andesite Breccia								
2167	183.5	186.5	3.0		92	Altered Zone	.003	.08	.01	.10	.03			
	186.5	188.3			94	Andesite Breccia								
2168	188.3	191.0	1.7		98	Alteration Zone (5% sulphides)	.007	.28	.01	.18	.21			
2169	191.0	193.7	2.7		100	Alteration Zone	.001	.01	.01	.02	.01			
	193.7	197.0			98	Alteration Zone (visually barren)								
2170	197.0	198.0	1.0		95	Alteration Zone (50% vein, tr sulph)	.001	.02	.01	.01	.01			
	198.0	205.0			98	Alteration Zone (barren)								
2171	205.0	206.8	1.8		90	Alteration Zone (25% vein, 5% sulph)	.014	.32	.01	.36	.04			
2172	206.8	211.0	4.2		96	Alteration Zone (10% vein, 5% sulph)	.012	.74	.01	.74	.42			
2173	211.0	213.0	2.0		95	Alteration Zone (5% vein 2% sul.)	.006	.42	.01	.23	.17			
2174	213.0	220.0	7.0		92	Alteration Zone (3% vein, 1% sulph)	.003	.19	.01	.05	.06			

DRILL HOLE ASSAY LOG

PROPERTY \_\_\_\_\_  
 DRILL HOLE NO. 85-11  
 DRILL TYPE \_\_\_\_\_  
 DATE \_\_\_\_\_

NORTHING \_\_\_\_\_  
 EASTING \_\_\_\_\_  
 ELEVATION \_\_\_\_\_  
 DIP \_\_\_\_\_

BEARING \_\_\_\_\_  
 TOTAL LENGTH \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_  
 PAGE 2 of 2

Sample Number	Interval			Recovery		Geologic Notes	Assay Results				
	From	To	Length	Wt.	%		G/T Au	G/T Ag	%Cu	%Zn	%Pb
2175	227.0	228.3	1.3		98	Alteration Zone (50% grt, 2% sul.)	.003	.09	.01	.09	.07
	228.3	241.5			95	Andesite Breccia					
2176	241.5	245.5	3.0		96	Alteration Zone (3% sulphides)	.002	.24	.01	.14	.14
	245.5	250.0			98	Andesite Breccia					
2177	250.0	258.0	8.0		95	Alteration Zone (trace sulphides)	.001	.01	.01	.01	.01
	258.0	268.0				Andesite Breccia					
						268 Ft - End of Hole					

DRILL HOLE ASSAY LOG

PROPERTY TOPLEY  
 DRILL HOLE NO. 85-12  
 DRILL TYPE NQ Core  
 DATE November 1, 1985

NORTHING 51,400 N  
 EASTING 50,335 E  
 ELEVATION \_\_\_\_\_  
 DIP -50°

BEARING West  
 TOTAL LENGTH \_\_\_\_\_  
 LOGGED BY E.S.H.  
 PAGE 1 of 1

Sample Number	Interval			Recovery		Geologic Notes	Assay Results				
	From	To	Length	Wt.	%		G/T Au	G/T Ag	%Cu	%Zn	%Pb
	0	9.7				Overburden					
	9.7	35.5			97	Maroon Pyroclastics					
	35.5	38.5			98	Andesite Dyke					
	38.5	92.5			100	Maroon Pyroclastics					
2201	92.5	94.5	2.0		98	Maroon Pyroclastics, 10% gtz-carb					
	94.5	355.0			98	Maroon Pyroclastics					
						355 ft - End of Hole					

DRILL HOLE ASSAY LOG

PROPERTY TOPLEY  
 DRILL HOLE NO. 85-13  
 DRILL TYPE NQ Core  
 DATE November 3, 1985

NORTHING 51,500 N  
 EASTING 50,050 E  
 ELEVATION \_\_\_\_\_  
 DIP -50°

BEARING West  
 TOTAL LENGTH 337 ft  
 LOGGED BY E.S.N.  
 PAGE 1 of one

Sample Number	Interval			Recovery		Geologic Notes	Assay Results				
	From	To	Length	Wt.	%		G/T Au	G/T Ag	%Cu	%Zn	%Pb
	0	6				Overburden					
	6	71				Maroon Pyroclastics					
	71	75				Andesite Dyke					
	75	185				Maroon Pyroclastics					
	185	192				Andesite Dyke					
	192	203				Maroon Pyroclastics					
	203	210				Andesite Dyke					
	210	241				Maroon Pyroclastics					
	241	241				Unconformity					
	241	337				Maroon Pyroclastics					
						337 ft - end of hole					

DRILL HOLE ASSAY LOG

PROPERTY TOPLEY  
 DRILL HOLE NO. 85-14  
 DRILL TYPE NQ  
 DATE November 6, 1985

NORTHING 51,400N  
 EASTING 49,225E  
 ELEVATION -  
 DIP -50°

BEARING West  
 TOTAL LENGTH 254 ft  
 LOGGED BY E.S.H  
 PAGE 1 of 1

Sample Number	Interval			Recovery		Geologic Notes	Assay Results				
	From	To	Length	Wt.	%		G/T Au	G/T Ag	%Cu	%Zn	%Pb
	0	12.0				Overburden					
	12.0	61.5			85	Maroon Pyroclastics					
2202	61.5	64.0	2.5		75	Mineralized Pyroclastics					
2203	64.0	67.5	3.5		80	Mineralized Pyroclastics					
	67.5	75.0	7.5		96	Maroon Pyroclastics					
2204	75.0	76.0	1.0		85	Mineralized Pyroclastics					
	76.0	131.0			92	Maroon Volcanics					
	131.0	156.0			95	Andesitic Flows					
	156.0	168.0			96	Volcanic Breccia					
	168.0	183.0			98	Andesite Dyke					
	183.0	254.0			95	Volcanic Breccia					
						254 ft - End of Hole					



ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 TELEX 04-53124

DATE RECEIVED: MAY 1 1985

DATE REPORT MAILED: *May 3/85*

### ASSAY CERTIFICATE

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-3 OF HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR.  
AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: P1-CORES P2-SLUDGES AU# 10 GRAM REGULAR ASSAY

ASSAYER: *T. Saundry* DEAN TOYE OR TOM SAUNDY. CERTIFIED B.C. ASSAYER

BISHOP RESOURCES

FILE # 85-0475

PAGE 1

SAMPLE#	Cu %	Pb %	Zn %	Ag oz/t	Au oz/t
5501	.01	.01	.01	.03	.001
5502	.01	.02	.01	.06	.001
5503	.01	.04	.09	.08	.003
5504	.01	.07	.09	.21	.006
5505	.01	.01	.02	.03	.002
5506	.16	.96	1.90	31.98	.046
5507	.01	.11	.14	.09	.003
5508	.01	.01	.02	.01	.001
STD R-1	.89	1.37	2.38	2.95	-

ACME ANALYTICAL LABORATORIES LTD.  
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
 PHONE 253-3158 TELEX 04-53124

DATE RECEIVED: MAY 25 1985

DATE REPORT MAILED: *May 31/85*

**ASSAY CERTIFICATE**

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-3 OF HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR.  
 AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: CORES AU# 10 GRAM REGULAR ASSAY

ASSAYER: *T. Saundry* DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

BISHOP RESOURCES

FILE # 85-0699

PAGE

SAMPLE#	Au# oz/t	Ag oz/t	Cu %	Pb %	Zn %
5512	.005	.23	.01	.08	.14
5513	.001	.28	.01	.05	.11
5514	.001	.05	.01	.01	.02
5515	.008	10.18	.07	.59	1.28
5516	.001	.81	.01	.05	.04
5517	.044	64.43	.37	1.34	.44
5518	.005	.46	.01	.12	.14
5519	.001	.57	.01	.10	.14
5520	.004	1.15	.01	.17	.17
5521	.002	.61	.01	.31	.50
5522	.020	32.57	.16	5.97	.33
5523	.166	141.30	1.24	30.90	7.42
5524	.016	33.63	.35	2.71	.33
5525	.001	.78	.02	.46	.73
5526	.001	.29	.01	.04	.07
5527	.220	38.08	.23	3.58	1.54
5528	.001	.19	.01	.01	.02
5529	.001	.19	.01	.03	.06
5530	.001	.14	.01	.02	.05
5531	.030	21.91	.06	.22	.06
STD R-1	-	2.97	.89	1.37	2.40

# MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: 04-352828

## CERTIFICATE OF ASSAY

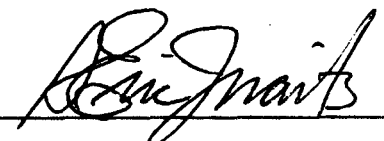
COMPANY: HOLT ENGINEERING  
PROJECT: 117-1  
ATTENTION: ED HOLT

FILE: 5-216  
DATE: JUNE 11/85.  
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON	CU %	PB %	ZN %
5532	2.2	0.06	.01	0.001	.006	.14	.12
5533	0.1	0.01	.01	0.001	.003	.01	.01
5534	0.1	0.01	.04	0.001	.005	.02	.01
5535	0.1	0.01	.01	0.001	.006	.01	.01
5536	0.1	0.01	.01	0.001	.002	.01	.01
5537	0.1	0.01	.04	0.001	.003	.01	.01
5538	0.1	0.01	.02	0.001	.004	.01	.01
5539	6.0	0.17	.13	0.004	.016	.50	.54
5540	2.0	0.06	.11	0.003	.010	.15	.30
5541	18.0	0.52	.28	0.008	.046	.48	1.67
5542	16.5	0.48	.15	0.004	.036	.60	.45
5543	1.0	0.03	.02	0.001	.005	.09	.08
5544	0.1	0.01	.01	0.001	.004	.01	.01
5545	0.2	0.01	.01	0.001	.004	.01	.01
5546	15.0	0.44	.42	0.012	.020	.16	.08
5547	0.2	0.01	.06	0.002	.004	.04	.04
5548	0.1	0.01	.01	0.001	.004	.02	.01
5549	0.1	0.01	.01	0.001	.004	.01	.01

Certified by



MIN-EN LABORATORIES LTD.

ACME ANALYTICAL LABORATORIES LTD.  
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
 PHONE 253-3158      TELEX 04-53124

DATE RECEIVED: JULY 22 1985

DATE REPORT MAILED: *July 25/85*

**ASSAY CERTIFICATE**

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-2 OF HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR.  
 AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: CORES    AU: 10 GRAM REGULAR ASSAY

ASSAYER: *T. Saundry* DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

BISHOP RESOURCES

FILE # 85-1489

PAGE

SAMPLE#	Cu %	Pb %	Zn %	Ag OZ/T	Au OZ/T
2151	.04	.16	3.40	3.90	.042
2152	.01	.07	.05	.28	.001
2153	.01	.01	.02	.04	.001
2154	.01	.01	.01	.01	.002
2155	.07	.21	.40	12.55	.017
2156	.01	.07	.12	.05	.002
2157	.01	.03	.06	.10	.001
2158	.01	.02	.02	.15	.001
2159	.09	.30	4.49	10.39	.013
2160	.01	.03	.03	.07	.001
2161	.01	.06	.62	.27	.009
2162	.01	.02	.02	.03	.001
2163	.01	.04	.08	.11	.001
2164	.01	.47	.59	1.42	.008
2165	.01	.01	.03	.04	.002
2166	.01	.12	.16	.20	.005
2167	.01	.03	.10	.08	.003
2168	.01	.21	.18	.28	.007
2169	.01	.01	.02	.01	.001
2170	.01	.01	.01	.02	.001
2171	.01	.04	.36	.32	.014
2172	.01	.42	.74	.74	.012
2173	.01	.17	.23	.42	.006
2174	.01	.06	.05	.19	.003
2175	.01	.07	.09	.09	.003
2176	.01	.14	.14	.24	.002
2177	.01	.01	.01	.01	.001
STD R-1	.89	1.37	2.40	2.97	-

**MIN-EN Laboratories Ltd.**

*Specialists in Mineral Environments*

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: 04-352828

**CERTIFICATE OF ASSAY**

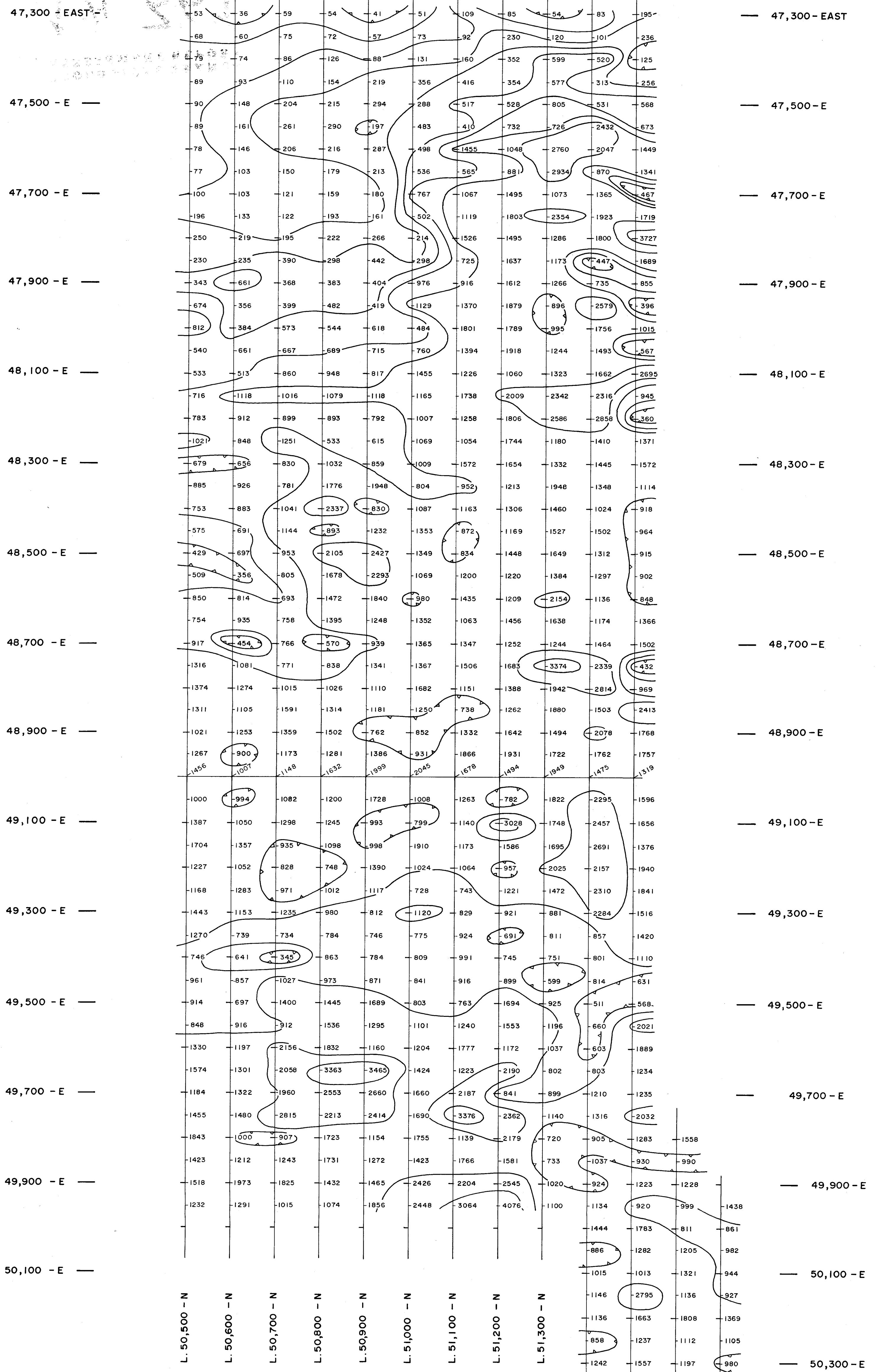
COMPANY: HOLT ENGRG.  
PROJECT: BISHOP  
ATTENTION: ED HOLT

FILE: 5-895  
DATE: NOV.13/85.  
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

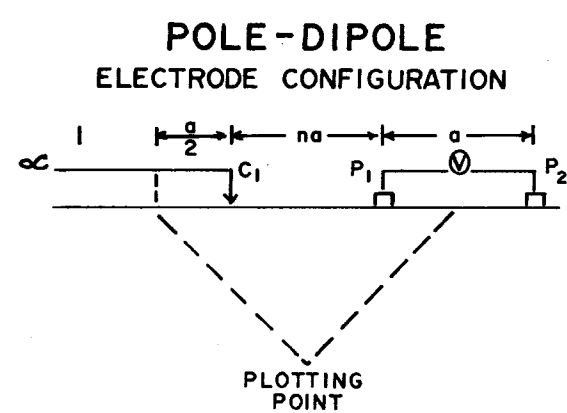
SAMPLE NUMBER	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON	CU %	PB %	ZN %
2201	0.2	0.01	.01	0.001			
2202	5.9	0.17	.16	0.005	.006	.05	.27
2203	0.4	0.01	.01	0.001	.006	.01	.02
2204	2.0	0.06	.02	0.001	.007	.01	.02

LINE 50,500 - N  
 LINE 50,600 - N  
 LINE 50,700 - N  
 LINE 50,800 - N  
 LINE 50,900 - N  
 LINE 51,000 - N  
 LINE 51,100 - N  
 LINE 51,200 - N  
 LINE 51,300 - N  
 LINE 51,400 - N  
 LINE 51,500 - N



**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**14,361**

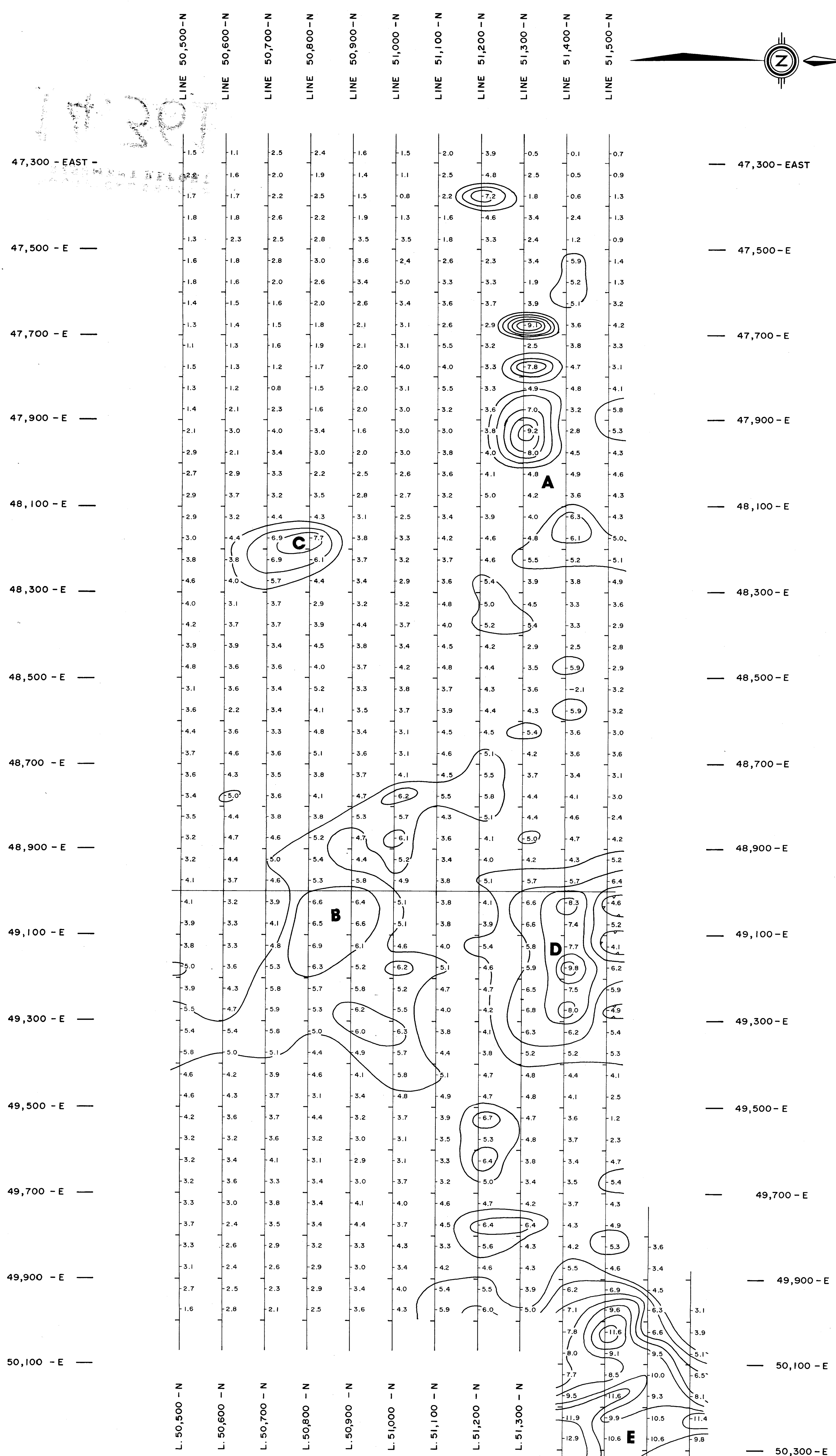


**BISHOP RESOURCES DEVELOPMENT LTD.**  
 TOPLEY PROPERTY, OMINECA M.D., B.C.  
**INDUCED POLARIZATION SURVEY**  
 CONTOURS OF APPARENT RESISTIVITY  
 (IN OHM-METRES)  
 $\rho_a = 50$  METRES,  $n = 2$   
 SCALE 1:5,000

CURRENT ELECTRODE WEST OF POTENTIAL ELECTRODE  
 DIPOLE SEPARATION "a" - 50 METRES  
 TIME DELAY - 100 MILLI-SECONDS  
 SAMPLING TIME - 1000 MILLI-SECONDS  
 TRANSMITTER - HUNTEC 2.5 Kw.  
 RECEIVER - HUNTEC MARK IV  
 CONTOUR INTERVAL - 50, 70, 100, 200, 300, 500, 700,  
 1000, 2000, 3000 etc.

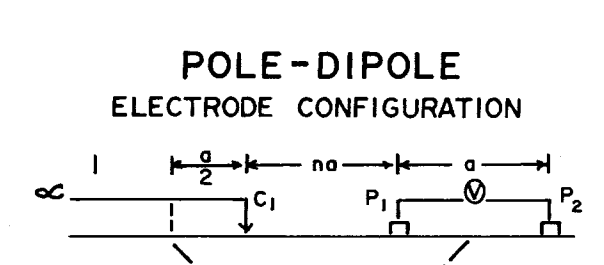
MAP No. W-373-2  
 TO ACCOMPANY A REPORT BY  
 PETER E. WALCOTT, P.Eng.

PETER E. WALCOTT & ASSOC. LTD.  
 AUGUST - 1985



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,361**



**POLE-DIPOLE  
ELECTRODE CONFIGURATION**

CURRENT ELECTRODE WEST OF POTENTIAL ELECTRODE  
 DIPOLE SEPARATION "a" - 50 METRES  
 TIME DELAY - 100 MILLI-SECONDS  
 SAMPLING TIME - 1000 MILLI-SECONDS  
 TRANSMITTER - HUNTEC 2.5 Kw.  
 RECEIVER - HUNTEC MARK IV  
 CONTOUR INTERVAL - 5, 6, 7, 8, 9, 10, 11 & 12

**BISHOP RESOURCES DEVELOPMENT LTD.**  
**TOPLEY PROPERTY, Omineca M.D., B.C.**

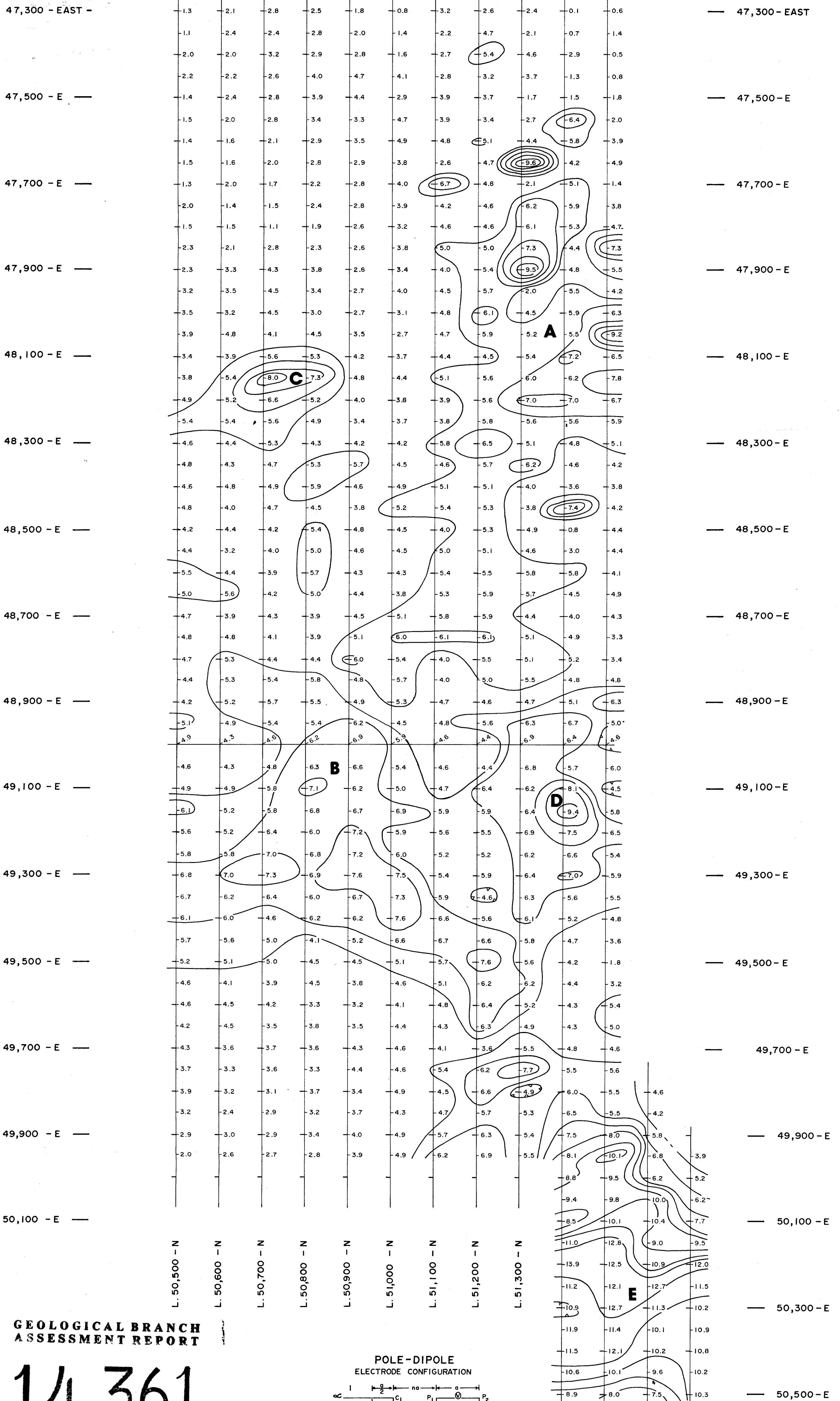
**INDUCED POLARIZATION SURVEY**  
 CONTOURS OF APPARENT CHARGEABILITY  
 (IN MILLI-SECONDS)  
 "a" = 50 METRES, n = 1

SCALE 1:5,000

MAP No. W-373-3  
 TO ACCOMPANY A REPORT BY  
 PETER E. WALCOTT, P.Eng.

**PETER E. WALCOTT & ASSOC. LTD.**  
 AUGUST - 1985

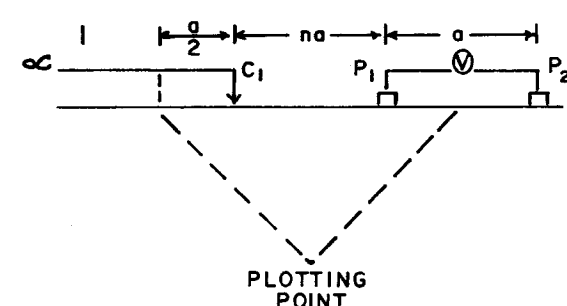
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 LINE 50,700-N  
 LINE 50,800-N  
 LINE 50,900-N  
 LINE 51,000-N  
 LINE 51,100-N  
 LINE 51,200-N  
 LINE 51,300-N  
 LINE 51,400-N  
 LINE 51,500-N



GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

14,361

POLE-DIPOLE  
 ELECTRODE CONFIGURATION



CURRENT ELECTRODE WEST OF POTENTIAL ELECTRODE  
 DIPOLE SEPARATION "a" - 50 METRES  
 TIME DELAY - 100 MILLI-SECONDS  
 SAMPLING TIME - 1000 MILLI-SECONDS  
 TRANSMITTER - HUNTEC 2.5 Kw.  
 RECEIVER - HUNTEC MARK IV  
 CONTOUR INTERVAL - 5,6,7,8,9,10,11 & 12

BISHOP RESOURCES DEVELOPMENT LTD.  
 TOPLEY PROPERTY, OMINICA M.D., B.C.

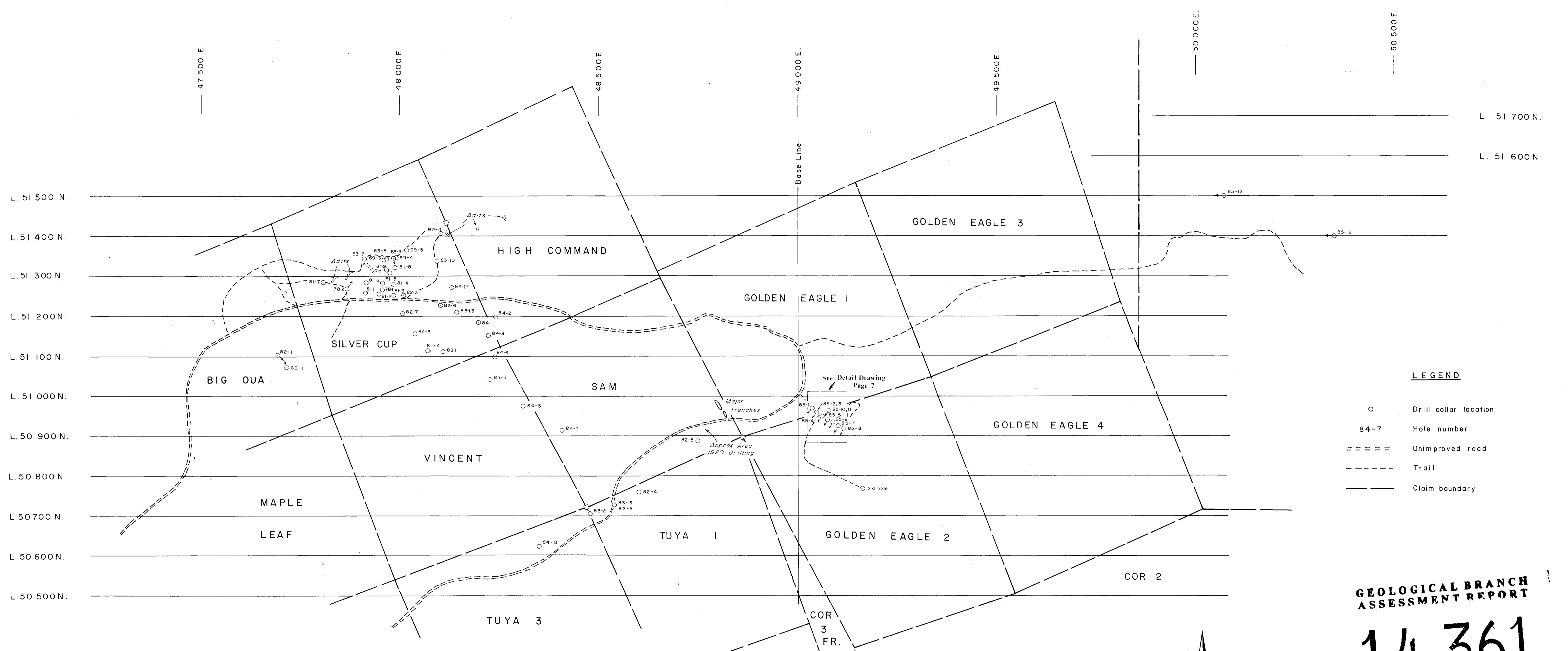
INDUCED POLARIZATION SURVEY  
 CONTOURS OF APPARENT CHARGEABILITY  
 (IN MILLI-SECONDS)  
 "a" = 50 METRES, n = 2

SCALE 1:5,000

MAP No. W-373-4  
 TO ACCOMPANY A REPORT BY  
 PETER E. WALCOTT, P.Eng.

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 AUGUST - 1985

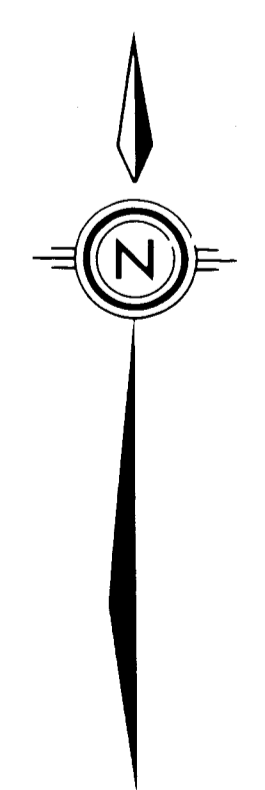




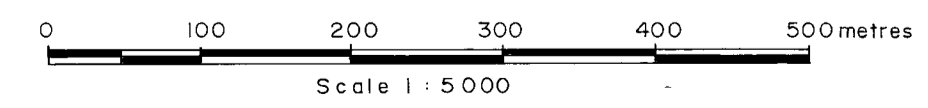
- LEGEND**
- Drill collar location
  - 84-7 Hole number
  - ==== Unimproved road
  - - - - Trail
  - Claim boundary

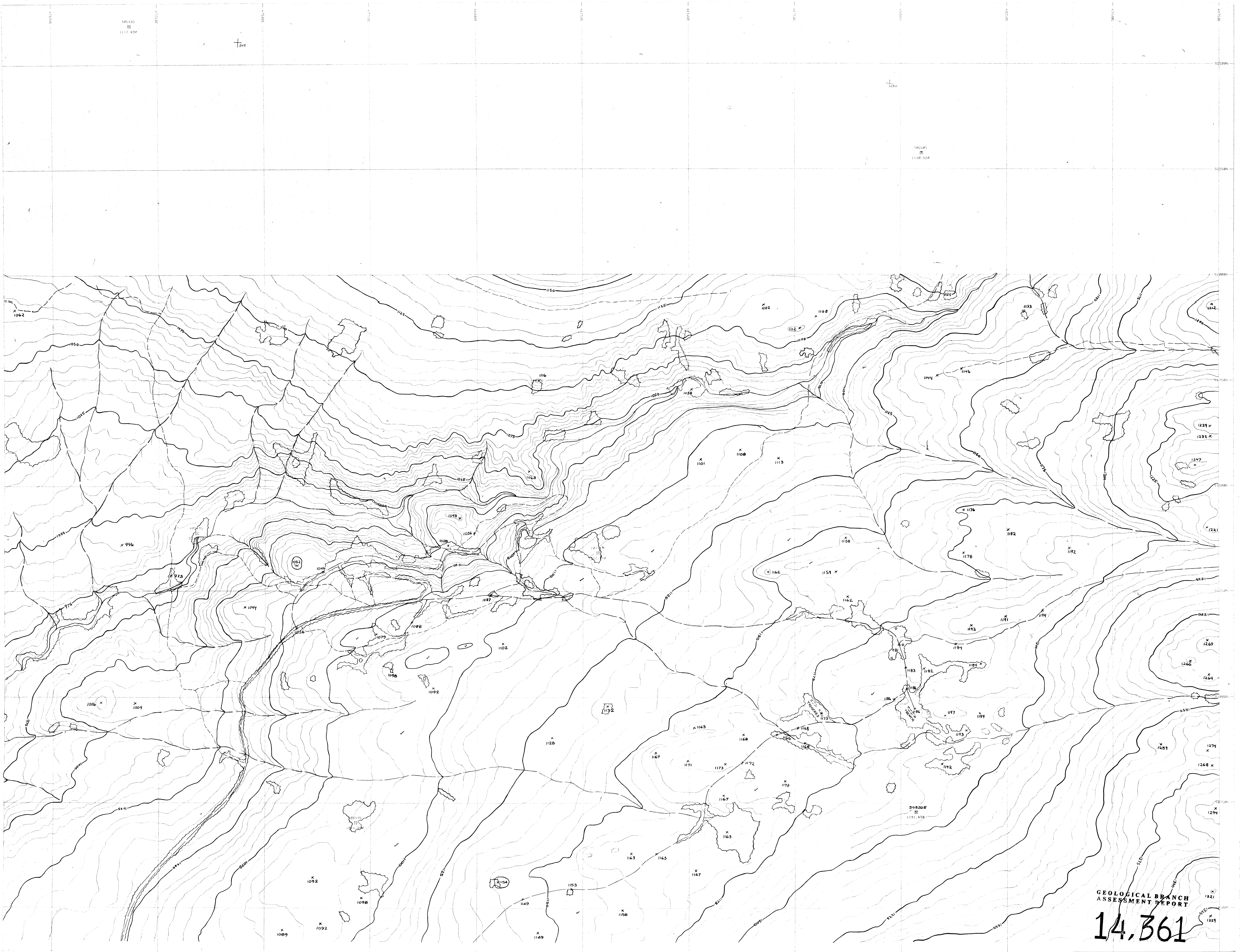
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,361**



BISHOP RESOURCES DEVELOPMENT LTD.  
TOPLEY PROPERTY  
**DRILL HOLE LOCATION PLAN**






GEOLOGICAL BRANCH  
ASSESSMENT REPORT

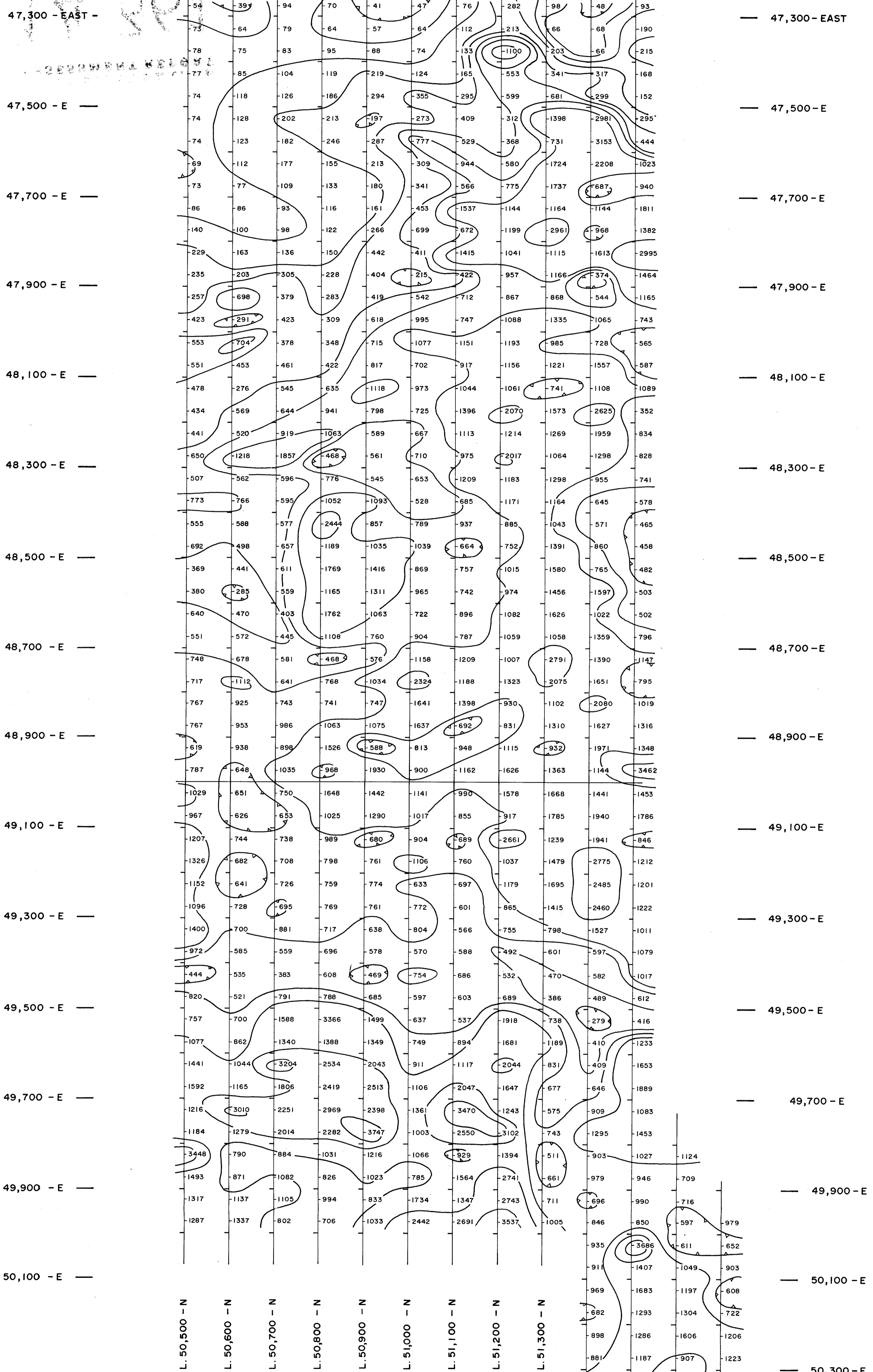
14,361

BISHOP RESOURCES DEVELOPMENT LTD.

TOPLEY B.C.

	Compiled by McLENNAN SURVEYING & ENGINEERING LTD. 1165 Alton St. Vancouver, B.C. Canada from aerial photography at an approximate scale of 1:20000 drawn on <b>GRID 175</b>
	Scale 1:2500 Date August 2, 1985
	Contour Interval 5 Metres Sheet No. 1 of 1
	REF. NO. 1036-0

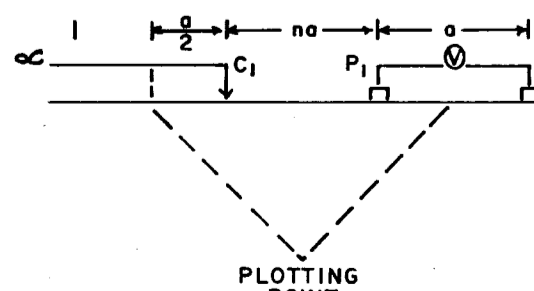
LINE 50,500 - N  
 LINE 50,600 - N  
 LINE 50,700 - N  
 LINE 50,800 - N  
 LINE 50,900 - N  
 LINE 51,000 - N  
 LINE 51,100 - N  
 LINE 51,200 - N  
 LINE 51,300 - N  
 LINE 51,400 - N  
 LINE 51,500 - N



**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**14,361**

**POLE-DIPOLE  
 ELECTRODE CONFIGURATION**



CURRENT ELECTRODE WEST OF POTENTIAL ELECTRODE  
 DIPOLE SEPARATION "a" - 50 METRES  
 TIME DELAY - 100 MILLI-SECONDS  
 SAMPLING TIME - 1000 MILLI-SECONDS  
 TRANSMITTER - HUNTEC 2.5 KW.  
 RECEIVER - HUNTEC MARK IV  
 CONTOUR INTERVAL - 50, 70, 100, 200, 300, 500, 700,  
 1000, 2000, 3000 etc.

**BISHOP RESOURCES DEVELOPMENT LTD.  
 TOPLEY PROPERTY, OMINACA M.D., B.C.**

**INDUCED POLARIZATION SURVEY**  
 CONTOURS OF APPARENT RESISTIVITY  
 (IN OHM-METRES)  
 "a" = 50 METRES, n = 1  
 SCALE 1:5,000

MAP No. W-373-1  
 TO ACCOMPANY A REPORT BY  
 PETER E. WALCOTT, P.Eng.

PETER E. WALCOTT & ASSOC. LTD.  
 AUGUST - 1985