COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS: 115 O/14,15

GEOCHEMICAL ASSESSMENT REPORT

ON THE

KSD CLAIM GROUP

KING SOLOMON DOME

DAWSON MINING DISTRICT

SITUATED AT

Latitude: 63°52'N Longitude: 139°00'W

PERIOD OF WORK

JULY 3 TO JULY 23, 1980

090769

090769

5 JANUARY 1981

G.A. MEDFORD

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

$ 27,600.00

Resident Geologist or
Resident Mining Engineer

Considered as representation work under Section 5(1)(a) of the Quartz Mining Act.

B. R. BAXTER
Supervising Mining Recorder

for Commissioner of Yukon Territory

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LIST OF FIGURES AND MAPS

COMINCO LTD.

EXPLORATION
NTS: 115 O/14,15

WESTERN DISTRICT
5 January 1981

GEOCHEMICAL ASSESSMENT REPORT

ON THE

KSD CLAIM GROUP

KING SOLOMON DOME

DAWSON MINING DISTRICT

I. SUMMARY

The KSD claims are located 30 km southeast of Dawson City, Y.T. and are accessible via the Hunker Creek Road.

The claim group is covered by well developed residual soil and is underlain by muscovite schists, gneisses and chlorite schists of the Klondike Schist unit. Soil sampling has delineated a Ag-Cu-Pb-Zn-Mn anomaly on one of six grids on the property and arsenic anomalies on three grids. Gold values in soils are generally low (<10 ppb) and scattered high values (up to 600 ppb) are not localized in areas with high arsenic. It is believed that the soil arsenic anomalies follow an As-rich rock unit.

All soils were collected from the C-horizon. Residual rock chips found at this level were collected and run for Au. Results did not correlate well with the soil Au.

II. INTRODUCTION

The KSD claims were acquired to cover several arsenic and gold anomalies and a copper-lead-zinc anomaly found by reconnaissance work in the King Solomon Dome area in the previous field season.

Work was carried out on the claim group between July 3 and July 23, 1980 by the following personnel:

G.A. Medford - 21 days
D. Coolidge - 21 days
D. O'Brien - 6 days

Two cut-line grids (12.6 km) were completed in June, 1981 and four chain-and-compass, flagged grids were laid out in early July. The six grids

were soil sampled at 50 m spacing. Residual 'rock chips' (c-horizon) were also collected at each location where possible. In all, 592 soils and a similar number of rock chip samples were obtained. Soils and rock chips were also taken along roads at 38 locations on the claim group.

III. LOCATION AND ACCESS

The KSD claims are situated 30 km southeast of Dawson City, Y.T. (Fig. 1), at the headwaters of Goldbottom, Hunker, Sulphur and Dominion Creeks (Map 1). The claims are accessible via the Hunker Creek Road.

IV. TOPOGRAPHY

King Solomon Dome, located at the centre of the KSD claim group, has a maximum elevation of 4,048 feet. A radiating pattern of deeply incised creeks results in valley bottoms 1,500 feet or more below the summit at boundaries of the claim group.

The area is mostly brush covered except in the southwest corner where there is light tree cover. North facing slopes are usually moss covered and underlain by permafrost. Outcrop is sparse within this area of well developed residual soils.

V. TENURE

The following claims comprising the KSD group are wholly owned by Cominco.

Claim	Tag Number	Due Date
1 - 138 (excluding 67 & 122)	YA49440 - YA49624	Jan. 23, 1981

The claim locations are given in Figure 2.

VI. GEOLOGY

The claim group is underlain by quartz-muscovite schists/gneisses and chlorite schist of the Klondike Schist unit.

VII. GEOCHEMISTRY

Geochemical sampling was carried out on the five grids at 50 m spacing. The grids were placed over Au, As and Cu-Pb-Zn anomalies found in previous reconnaissance work.

Two types of samples were collected at each location. The first was a soil sample in which an attempt was made to sample the 'C' horizon.

Residual fragments of rock (3 x 3 cm approximately) from this same horizon were also collected as a second sample. It was felt that the 'rock chip' sample would provide a better test of the gold content of underlying bedrock if leaching of gold from the soils was in fact a serious problem. A summary of the analyses performed on the six grids is given below:

GRID	SOIL									ROCK CHIPS		
	Au	As	Ag	Cu	Pb	Zn	Mo	Hg	W	Au	Ag	As
C	x	x								x		
D	x	x								x		
E	x	x	x	x	x	x	x	x	x	x	x	
F	x	x								x		
G	x	x								x		x
H	x	x								x		

The grid geochemical data is presented in Maps 2 to 7. The location and orientation of these grids is given in Map 1 along with Au and As values of soil samples taken along road traverses.

(a) Au and As in Soil - Au in Rock Chips (Maps 2 to 4)

Au and As were analysed on all grids. On grids F, G and D contourable arsenic results were obtained. Gold values in both rock chips and soils are generally low and scattered higher values cannot be correlated with confidence. Gold values in both soils and rock chips do not correlate with the higher arsenic results.

The distribution of As anomalies in grids F and G suggests that they may form a continuous horizon which follows an As rich lithology within the underlying schist unit on the east side of the claim group (Map 1).

(b) Ag, Cu, Pb, Zn, Mn, Mo, Hg, W Grid (Maps 5 and 6)

Work on this grid was done to test a Cu-Pb-Zn anomaly. Ag values in soil were found to be interesting (Max. 4.4 ppm) on the northern two crosslines and approximately coincide with a Pb anomaly. An associated Zn and Mn anomaly is displaced downslope to the east.

No encouraging results were obtained on grid E for Mo, W and Hg.

(c) Ag and As in Rock Chips (Map 7)

Ag was run on the rock chips collected on grid E to see if Ag mineralization might be present in subcrop. The values were much lower than the corresponding soil results thus indicating that the soils are acting as an accumulator for mineralization at a greater depth.

As was analysed using rock chips collected on grid G to see if the sub-cropping lithology was responsible for the soil arsenic anomaly. This proved to be the case although as mentioned previously, no associated enrichment of Au was found in this material.

VIII. CONCLUSIONS

1. An Ag-Cu-Pb-Zn-Mn anomaly open to the north and west is found on grid E.

2. As anomalies in soil are found on three grids (D, F, G), but do not exhibit an associated enrichment in Au. The As anomalies reflect the presence of a As-rich lithology or horizon, within the Klondike schist.

Report by: _____
G.A. Medford
Geologist

Endorsed by: _____
R.Y. Watanabe
Senior Geologist

Approved for
Release by: _____ for
G. Harden, Manager
Exploration,
Western District

GAM/skg

Distribution:

Mining Recorder (2)
Western District (1)
Administration (1)

COMINCO LTD.

EXPLORATION
NTS: 115 O/14,15

WESTERN DISTRICT
5 January 1981

STATEMENT OF QUALIFICATIONS

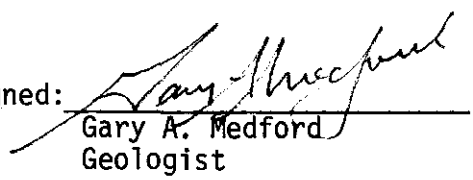
I, GARY A. MEDFORD, WITH BUSINESS ADDRESS AT 1486 EAST PENDER STREET, VANCOUVER, BRITISH COLUMBIA, DO HEREBY CERTIFY THAT I HAVE SUPERVISED THE FIELD WORK AND HAVE ASSESSED AND INTERPRETED THE DATA RESULTING FROM THIS GEOCHEMICAL SURVEY OF THE KSD CLAIMS.

I ALSO CERTIFY THAT:

1. I graduated from McGill University, Montreal with a B.Sc (Hons.) degree in 1968 and an M.Sc. degree in 1970.

2. I graduated from the University of British Columbia with a Ph.D. degree in 1976.

3. I have been engaged in my profession since 1974.

Signed: 
Gary A. Medford
Geologist

5 January 1981

C A N A D A
YUKON TERRITORY
TO WIT:

STATUTORY DECLARATION

I, ROBIN LAWSON WOODS, of the District of North Vancouver, in the Province of British Columbia, DO SOLEMNLY DECLARE THAT:

1. I am the Supervisor, Exploration Accounting for Cominco Ltd., 2300 - 200 Granville Street, Vancouver, British Columbia, and, as such have knowledge of the facts deposed to herein.

2. Attached to this Statutory Declaration, as Schedule A, is a statement of expenditures indicating the expenditures charged by Cominco Ltd. to the King Solomons Dome account for the period January 1, 1980 to November 30, 1980.

3. The statement of expenditures referred to in paragraph 2 is true and accurate to the best of my knowledge, information and belief.

4. This Statutory Declaration is made in support of an application for a Certificate of Work pursuant to the Yukon Quartz Mining Act.

AND I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

DECLARED before me at the City of Vancouver in the Province of British Columbia, this 12th day of December 1980

Anthony A. Zoobkoff
A Notary Public in and for the Province of British Columbia

Robin Lawson Woods

This is Schedule A referred to
in the Statutory Declaration
of ROBIN LAWSON WOODS
declared before me this 12th day
of December 1980

A Notary Public in and for the
Province of British Columbia

STATEMENT OF EXPENDITURES

KING SOLOMONS DOME

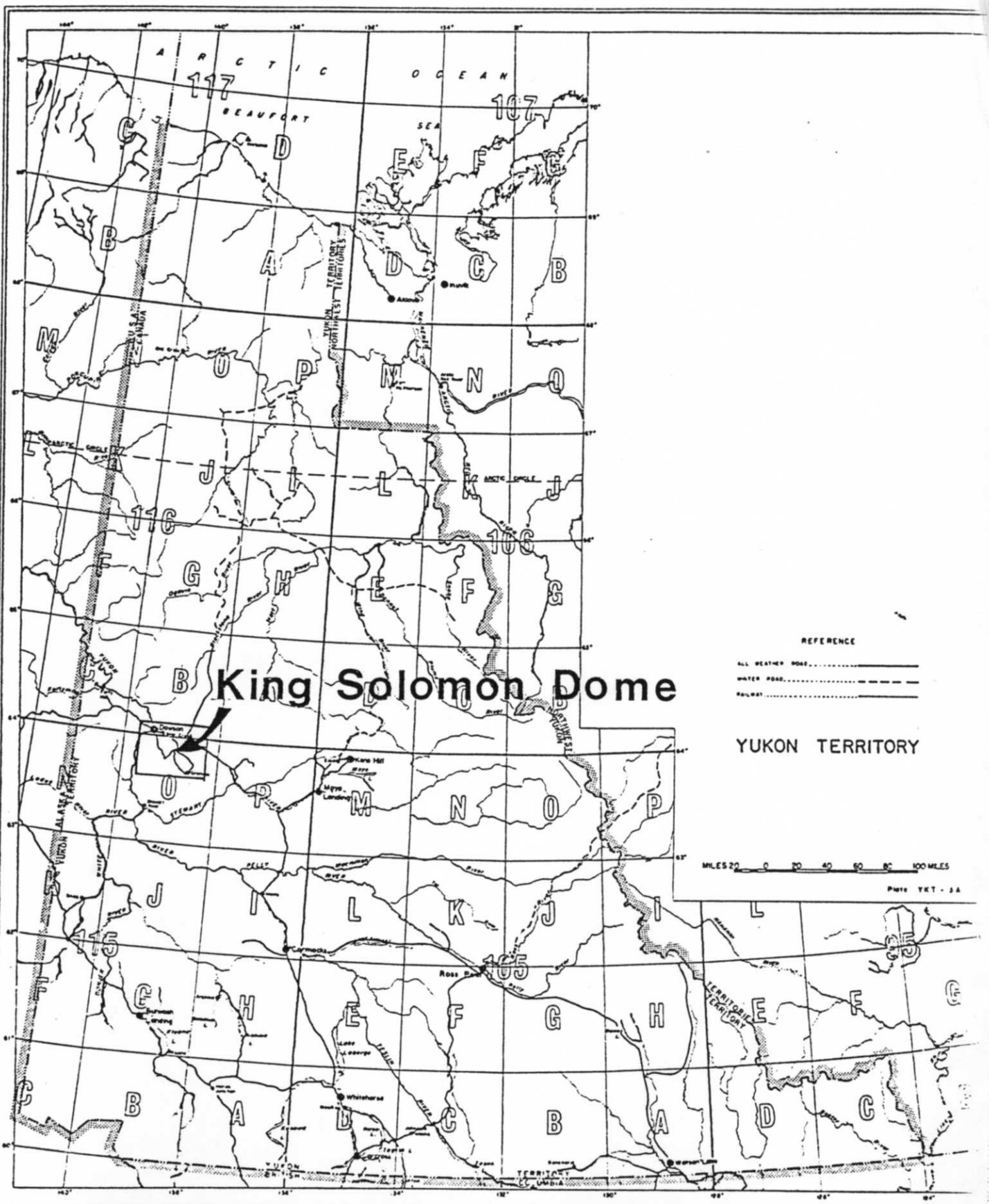
DAWSON CREEK M.D., YUKON

JANUARY 1, 1980 TO NOVEMBER 30, 1980

Geology	$10,775
Linecutting	3,000
Geophysics	13,658
Geochemistry	5,125
Transportation	6,402
Camp costs	2,836
Tenure	10,525
Administrative services	5,232
	$57,553

Cominco Ltd.
Vancouver Office
December 10, 1980
Copies: Mining Recorder (2)
Manager, Administration Exploration
File (2)

Robin Lawson Woods
Supervisor,
Exploration Accounting



Drawn by:	Traced by:
Revised by / Date	Revised by / Date

Location
King Solomon Dome

Scale | Date | Plate Fig. 1

KING SOLOMON DOME

Cominco

Drawn by: IAP		Traced by: APR	
Revised by	Date	Revised by	Date

CLAIM MAP
KSD CLAIMS

Scale: 1" = 1/2 mile | Date: 4-9-1980 | Plate: 2

210.0620

Upper Bonanza Creek

Gold Bottom Creek

Hunker Creek

Dominion Creek

Indian Creek

OREKON M.L.

E GRID

F GRID

C GRID

D GRID

G GRID

H GRID

KSD CLAIMS

WINDY

King Solomon Dome

WORK DISTRIBUTION

- C Geochemistry.
- D Geochem, Geophysics (IP), Linecutting.
- E Geochemistry
- F Geochem Geophysics (IP) Linecutting
- G Geochemistry
- H Geochemistry

LEGEND

Road

Trail

500 0 500 1000

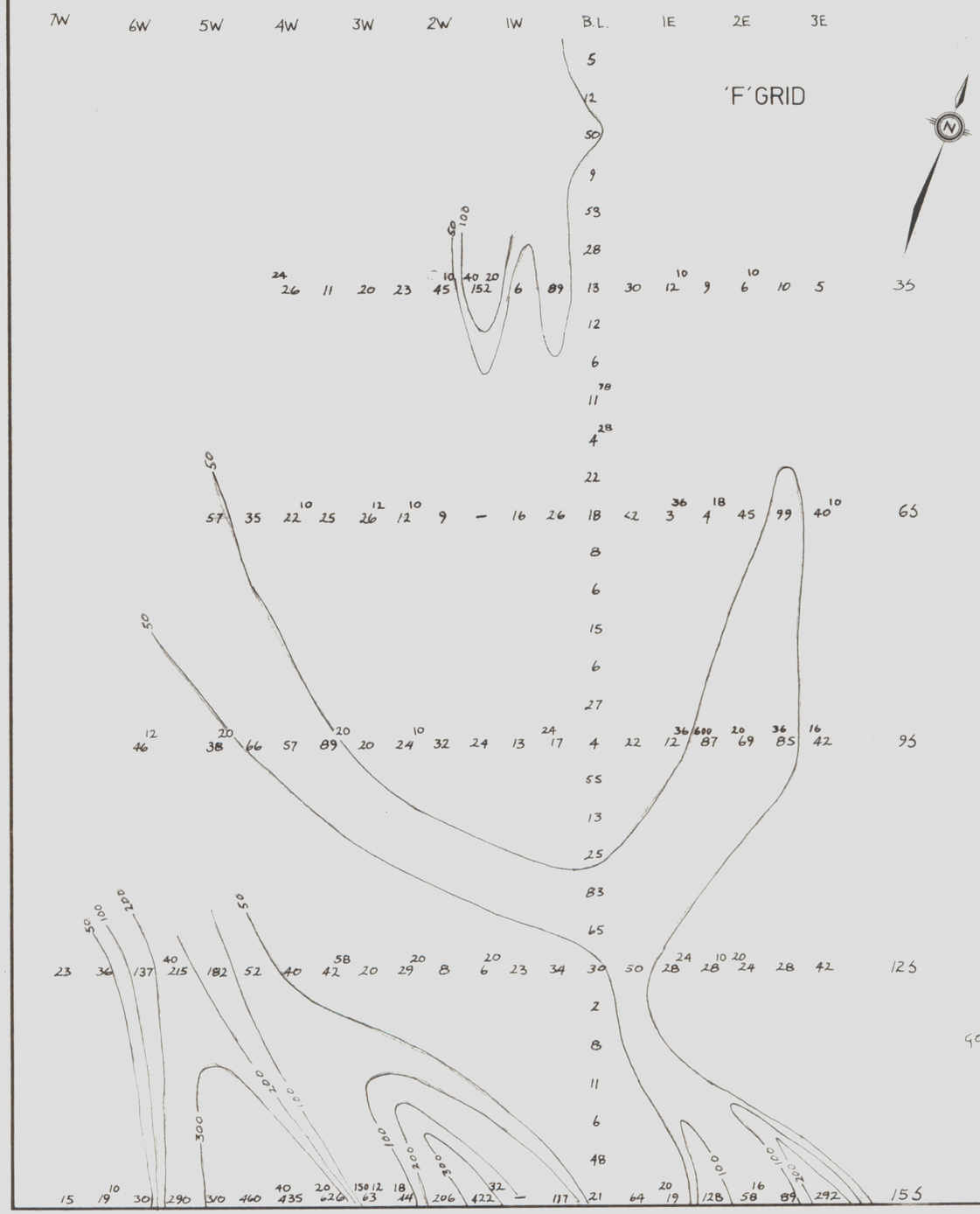
METRES

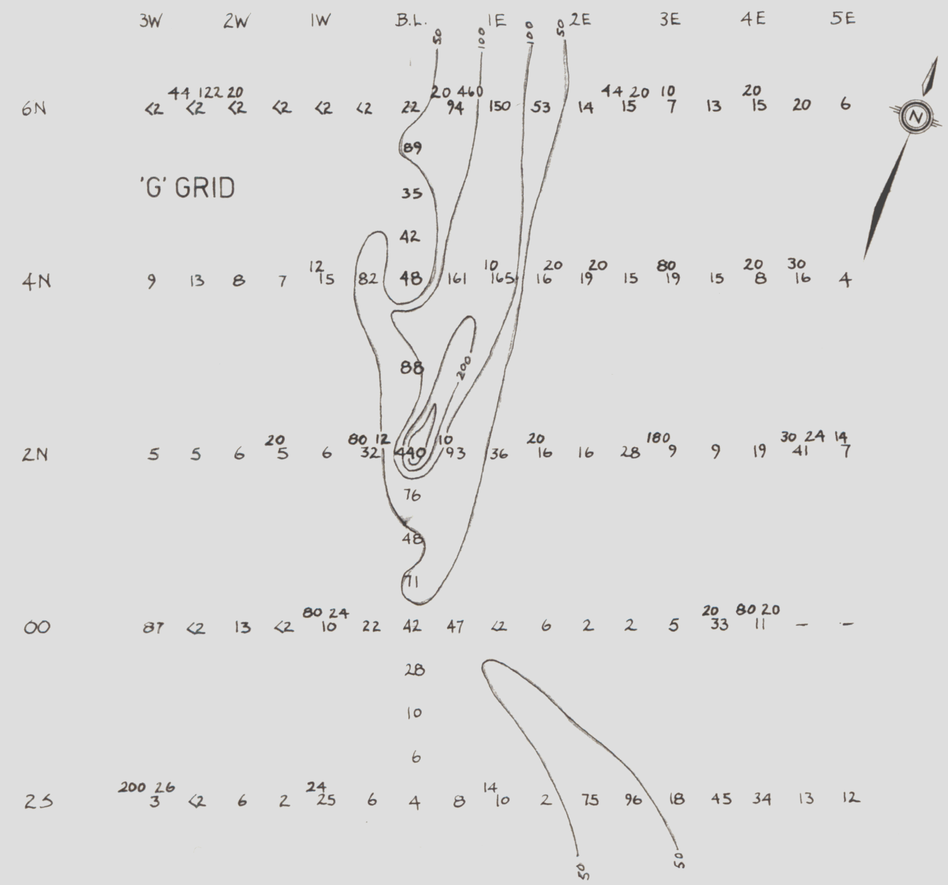
KING SOLOMON DOME

NTS 115 O 14,15

GRID LOCATION MAP

Drawn by:	Traced by:	Scale: 1 20000	Date: NOV 25/80	Plate: 1
Revised by / Date	Revised by / Date			





100
METRES

GOLD IN SOIL → 20 14 ← GOLD IN ROCK CHIPS ppb
12 ← ARSENIC ppm IN SOIL
— NO SAMPLE
<10 ppb GOLD NOT POSTED
CONTOURS ON ARSENIC

KING SOLOMON DOME

Cominco

Drawn by: G.A.M. | Traced by:
Revised by | Date | Revised by | Date

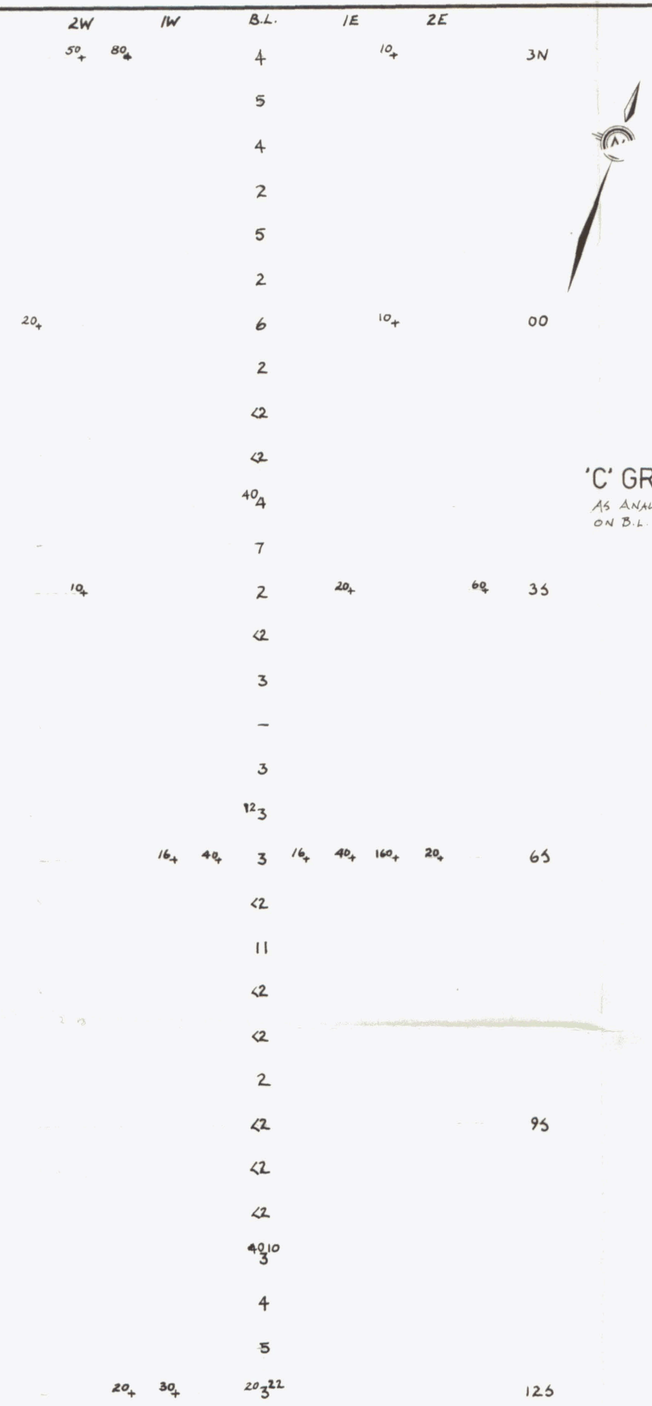
'F&G' GRIDS

As in soils. Au in soils/rock chips

Scale: 1:5000 | Date: NOV 25/80 | Plate: 2

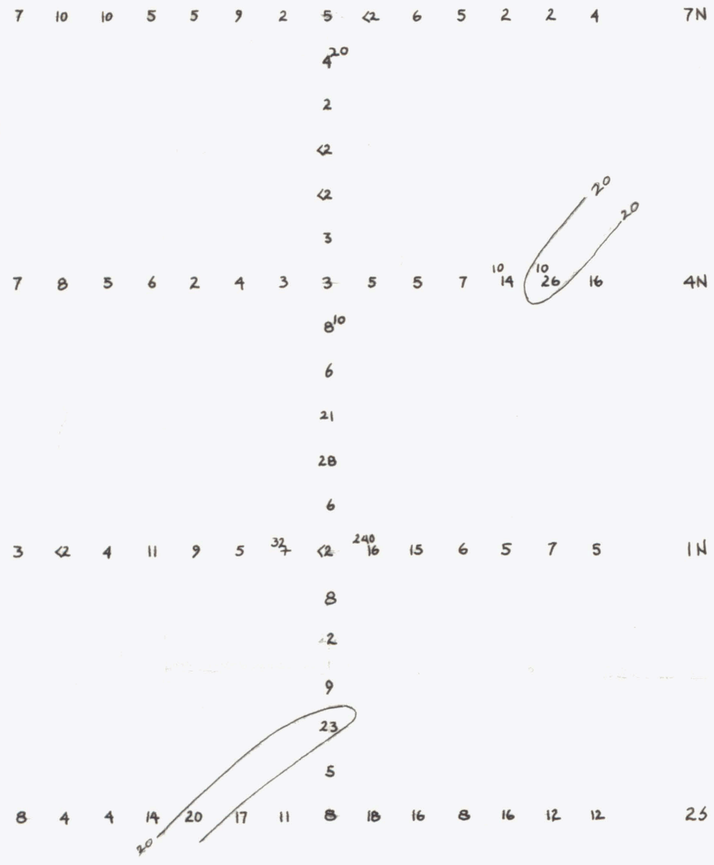
#210-0640

NCI - 114 - CL



'C' GRID

AS ANALYSED ON B.L. ONLY



'E' GRID

100

METRES

GOLD IN SOIL → 20 14 12 ← GOLD IN ROCK CHIPS ppb

← ARSENIC IN SOIL ppm

– NO SAMPLE

<10ppb GOLD Not Posted

CONTOURS ON ARSENIC

KING SOLOMON DOME

Cominco

Drawn by: gam	Traced by:
Revised by / Date	Revised by / Date

'C&E' GRIDS

As in soils. Au in soils/rock chips

Scale: 1:5000 | Date: NOV 25/80 | Plate: 3

#210-0640

NCI - 114 - CL

150W 150E 450E 750E

21	13	87	42	7N
27	10	30	23	
7	19	42	12	
9	30 12	58		
13	9	22	61	6N
10 15	11	22	7	
10	36 3	87	8	5N
7 10	40 10	106	20 16	'D' GRID
15 10	10 31 12	78	20 20	4N
15	12 53 20	169	10 24	
10 50	18 93	91	22	3N
52	16 128	105		
24	18 126 200	110	40	2N
30	223	208	16 85	
61	101	64	32	1N
50	78	124	50 100 200	
10 136	12 214	210	360 100 200	
168 236 359 423 12 112 24 64	10 26 200 612 274	20 319	16 80 50	B.L.
150	226	138	24	
115	176	231	22 50	1S
100 97	128	14 564	55 50	
83	322 300	34	22	2S
82 12	222	134	19	
125	262	243	20	3S
96	192	200	28	
85	136	74	25	4S
60	27	10 137	27 50	
73	51	63	65 50	5S
95	72	21	48 50	
100 139	77	21	40 52 28 50	
100 82 28	27	4	10 8	
34	18	10 6	40 4	
37	48	10 13	10	
66	18	20 16	9	

100 METRES

GOLD IN SOIL → 20 14 ← GOLD IN ROCK CHIPS ppb
12 ← ARSENIC IN SOIL ppm

– NO SAMPLE

<10ppb GOLD NOT POSTED

CONTOURS ON ARSENIC

'H' GRID

1W	B.L.	1E	2E	3E	4E	
	14	15 15 12	10 10 14	13 62 23 20	20	8N
	17					
	14					
	8					
	6	5 14 5 16	20 9 600 12	11 19		6N
	7					
	72 338					
	9					
	4	5 6 18	46 8 3	34 18 22		4N
	4					
	5					
5	<2	6 4 4	3 3 4	13		2N
	17					
	9					
	3					
8 10	5	3 4 7	26 6 8	10		00

20 20

KING SOLOMON DOME

Cominco

Drawn by: G.A.M.	Traced by:		
Revised by	Date	Revised by	Date

'D&H' GRIDS

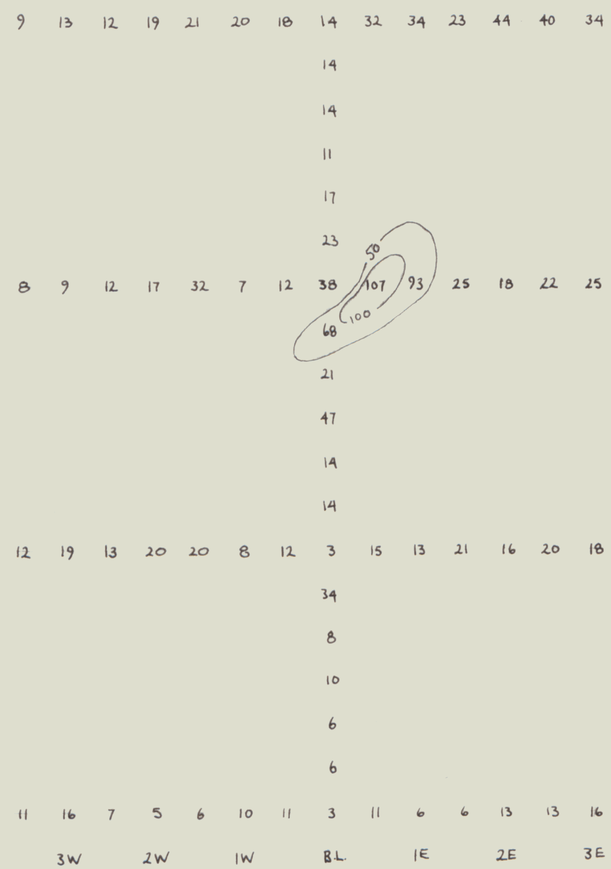
As in soils. Au in soils/rock chips

Scale: 1:5000 | Date: NOV 25/80 | Plate: 4

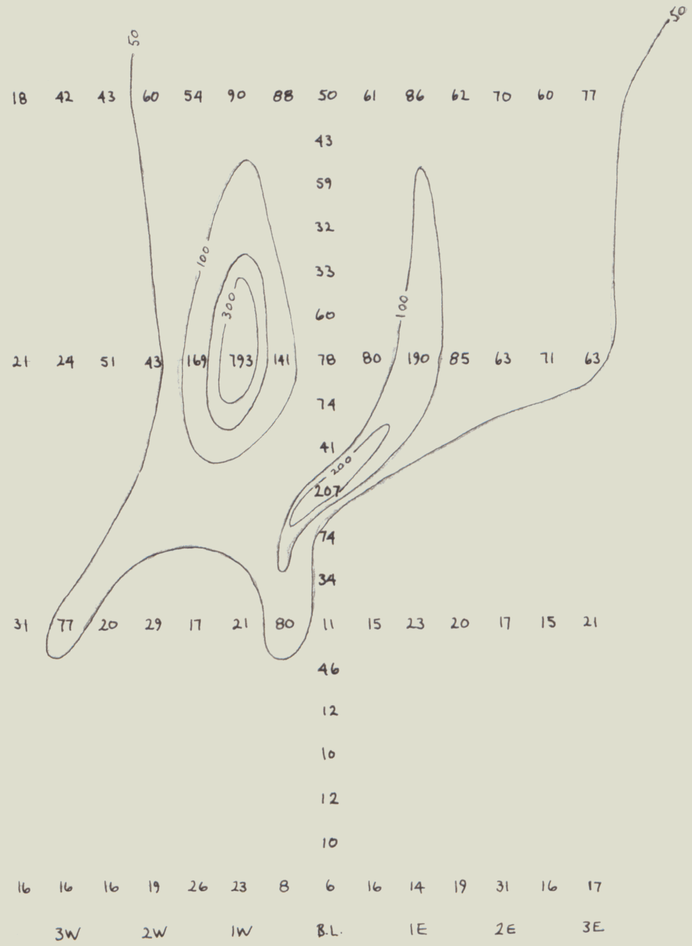
NCI - 114 - CL

#210-0640

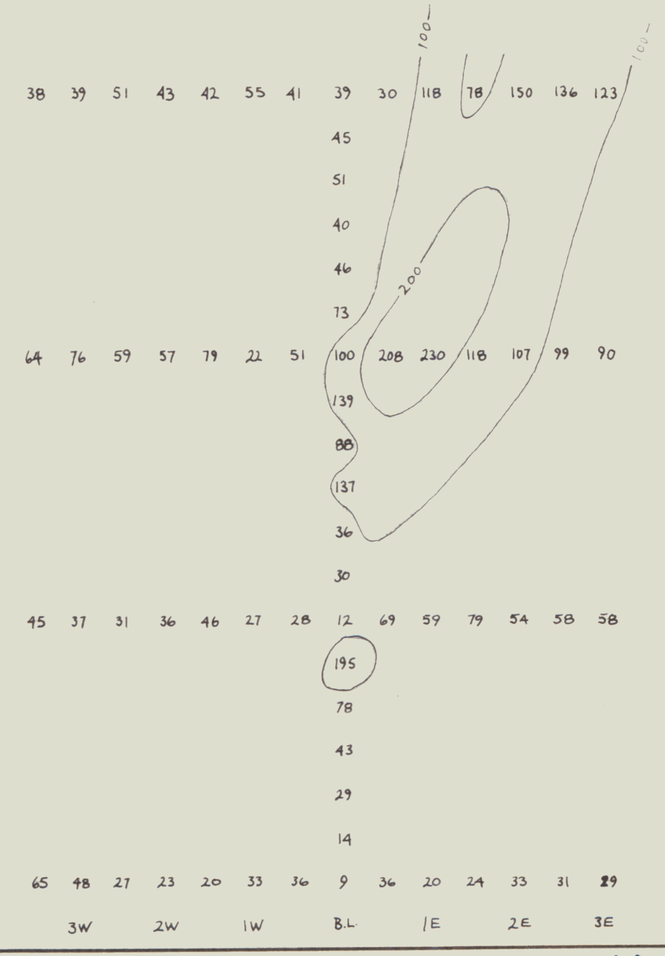
Cu ppm



Pb ppm



Zn ppm



100
METRES

KING SOLOMON DOME

Cominco

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

'E' GRID
Cu Pb Zn in soils

Scale: 1:5000 Date: NOV 25/80 Plate: 5

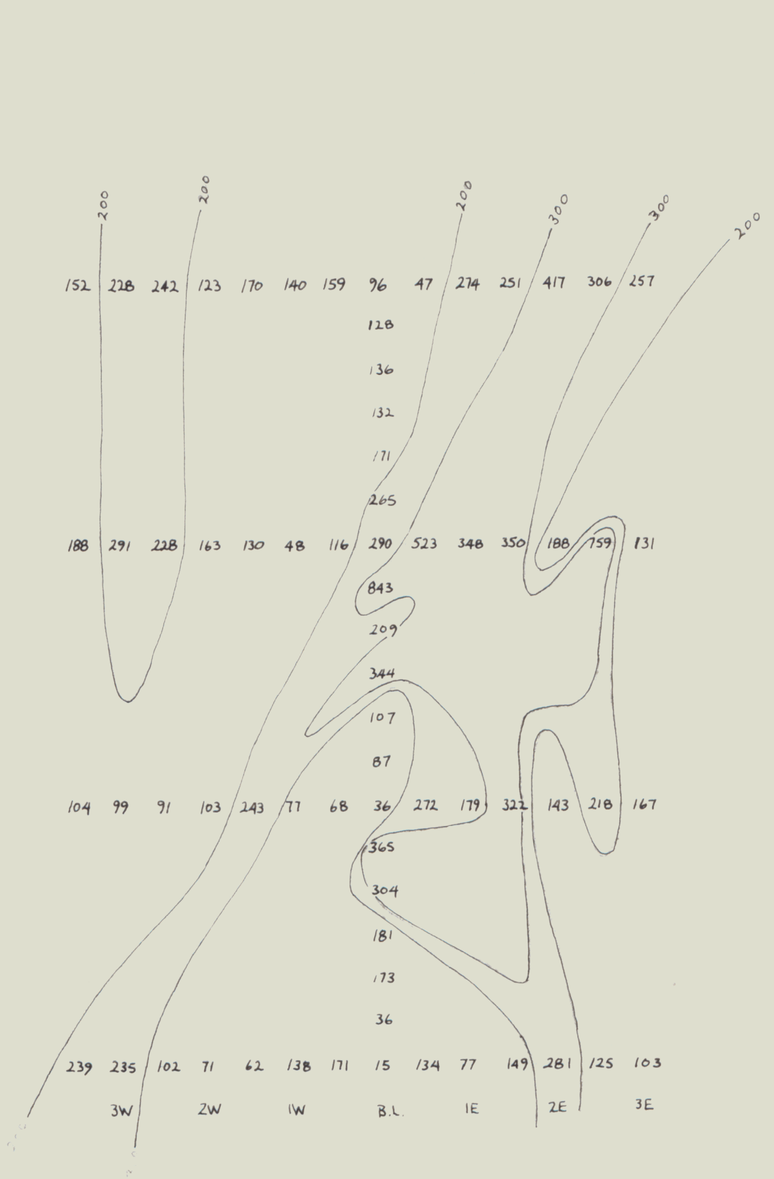
NCI - 114 - CL

#210-0640

Mn ppm

Ag ppm

Mo ppm
Hg ppb
W ppm



	3W	2W	1W	B.L.	1E	2E	3E
7N	152 228 242	123 170 140	159 96 47	274 251	417 306	257	
			128				
			136				
			132				
			171				
			265				
4N	188 291 228	163 130 48	116 290	523 348	350 188	759	131
			843				
			209				
			344				
			107				
			87				
1N	104 99 91	103 243 77	68 36	272 179	322 143	218	167
			365				
			304				
			181				
			173				
			36				
2S	239 235	102 71	62 138	171 15	134 77	149 281	125 103

	3W	2W	1W	B.L.	1E	2E	3E
7N	<.4 .5 .9	<.4 <.4 <.4	.4 .4	<.4 .6	.6 .7	.8	.7
				.4			
				<.4			
				.4			
				<.4			
				5			
4N	.8 .9 .4	.7 <.4 .4	.4 .5	.6	1.0 1.1	.7 .6	.6 .4
				<.4			
				.4			
				1.0			
				<.4			
				<.4			
1N	<.4 .4 <.4	<.4 4 <.4	<.4 <.4	<.4	<.4 <.4	<.4 .4	.5
				<.4			
				<.4			
				<.4			
				<.4			
				<.4			
2S	<.4 <.4 <.4	<.4 <.4 <.4	<.4 <.4	<.4	<.4 <.4	4 <.4	<.4

	3W	2W	1W	B.L.	1E	2E	3E
7N				$_{2}24^{2}$			
				$_{2}38^{<2}$			
				$_{2}24^{2}$			
				$_{2}28^{3}$			
				$_{2}48^{2}$			
4N				$_{2}18^{<2}$			
				$_{2}31^{3}$			
				$_{2}31^{3}$			
				$_{2}28^{2}$			
				$_{2}35^{<2}$			
1N	$_{2}20^{3}$ $_{2}45^{2}$	$_{2}32^{<2}$ $_{2}30^{3}$	$_{2}47^{2}$ $_{2}32^{4}$	$_{2}30^{<2}$	$_{2}10^{2}$ $_{2}25^{2}$	$_{2}16^{3}$	$_{2}30^{2}$ $_{2}29^{<2}$ $_{2}28^{3}$ $_{<2}52^{3}$
				$_{2}18^{2}$			
				$_{2}15^{<2}$			
				$_{<2}32^{<2}$			
				$_{<2}36^{<2}$			
				$_{2}42^{<2}$			
2S	$_{2}25^{2}$ $_{2}48^{4}$	$_{2}15^{<2}$ $_{2}10^{2}$	$_{2}10^{2}$ $_{2}25^{2}$	$_{2}55^{2}$	$_{2}15^{<2}$	$_{2}30^{2}$	$_{2}10^{<2}$ $_{2}15^{2}$ $_{2}20^{4}$ $_{2}30^{2}$ $_{2}31^{<2}$

100
METRES

KING SOLOMON DOME

Cominco

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

'E' GRID
W Mo Mn Ag Hg in soils

Scale: 1:5000 | Date: NOV 25/80 | Plate: 6

#210-0640

NCI-114-CL

'E' GRID Ag ppm

	3W	2W	1W	B.L.	1E	2E	3E
7N	<.4 <.4 <.4 <.4 <.4 <.4 <.4	.4	<.4 <.4 <.4 <.4 <.4 <.4 <.4				
6N	<.4 <.4 <.4 <.4 <.4 <.4 <.4	<.4	<.4 <.4 <.4 <.4 <.4 <.4 <.4				
5N	<.4 <.4 <.4 <.4 <.4 <.4 <.4	<.4	<.4 <.4 <.4 <.4 <.4 <.4 <.4				
4N	<.4 <.4 <.4 <.4 <.4 .5 <.4	<.4	2.7 <.4 <.4 .4 <.4 <.4 <.4				
3N	<.4 <.4 <.4 <.4 <.4 <.4 <.4	<.4	<.4 <.4 <.4 <.4 <.4 <.4 <.4				
2N	<.4 <.4 <.4 <.4 <.4 <.4 <.4	<.4	<.4 <.4 <.4 <.4 <.4 <.4 <.4				
1N	<.4 <.4 .5 <.4 <.4 <.4 <.4	<.4	<.4 <.4 <.4 <.4 <.4 <.4 <.4				
00	<.4 <.4 <.4 <.4 <.4 <.4 <.4	<.4	<.4 <.4 <.4 <.4 <.4 <.4 <.4				
1S	<.4 <.4 <.4 <.4 <.4 <.4 <.4	<.4	<.4 <.4 <.4 <.4 <.4 <.4 <.4				
2S	<.4 <.4 <.4 <.4 <.4 <.4 <.4	<.4	<.4 <.4 <.4 <.4 <.4 <.4 <.4				

'G' GRID As ppm

	3W	2W	1W	BL.	1E	2E	3E	4E	5E
6N	5 – 8 – 7 7		216	–	18	12	15	14	15	17	– –
5N			32								
4N	– – 8 – – –		47	55	–	23	11	–	27	– –	9 –
3N			20								
2N	7 8 – – 14	66	148	–	8	–	–	–	–	54	– –
1N			28								
00	6 5 6 6 29	12	37	32	–	9	5	9	7	9	121 – –
1S			–								
2S	6 4 4 15 – –		8	20	17	4	–	69	9	9	61 68 11

100
METRES

KING SOLOMON DOME

Cominco

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

'E&G' GRIDS
Ag & As in rock chips

Scale: 1:5000 | Date: NOV 25/80 | Plate: 7

NCI - 114 - CL

#210-0640

COMINCO LTD.

EXPLORATION
NTS: 115-0-14
115-0-15

WESTERN DISTRICT

GEOPHYSICAL SURVEY

on the

KING SOLOMON DOME

DAWSON M.D., YUKON

LATITUDE: 63° 52' LONGITUDE: 138° 57'

WORK PERFORMED: July 20 - August 10

CLAIMS COVERED: King Solomon Dome 8,10,12,14,31-38,55,
57,59,61,110-117.

090769

DECEMBER 15, 1980

INGO JACKISCH

This volume accompanies a geochemical report - credit for both reports is awarded jointly in geochem report.

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of $_____

_____

Resident Geologist or
Resident Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

_____

Commissioner of Yukon Territory

TABLE OF CONTENTS

ATTACHMENTS

COMINCO LTD.

EXPLORATION
NTS: 115-O-14
115-O-15

WESTERN DISTRICT
15 December 1980

INTRODUCTION

From July 20 to Aug.10 a four man Cominco geophysical crew completed an 11.7 km induced polarization survey over portions of the King Solomon Dome property.

King Solomon Dome is the highest topographical point in the immediate area and is located in the center of the Klondike placer gold field. Since all the gold bearing creeks radiate out from this structure it seems logical economic concentrations of gold could exist, whether disseminated in a stratigraphic zone or occurring in quartz veins.

The exploration objective was to define possible bedrock sources of high arsenic and trace precious metal geochemical values. It is postulated that gold mineralization is associated with pyrite, arsenopyrite, siderite, and magnetite. IP should respond to these minerals although it would not detect gold or silver directly because of their low concentrations.

This report describes the procedures used and discusses the results of the IP survey completed on King Solomon Dome.

LOCATION AND ACCESS

King Solomon Dome is located approximately 40 km S.E. of Dawson City. Access is by truck along the Hunker Ck. road, which turns off to the south from the Klondike Highway, 6 kms east of Dawson City. The dome is situated 30 km from the highway. The Hunker Ck. road does not require a 4 wheel drive vehicle unless it has been raining hard for a few days.

GEOPHYSICAL SURVEYS

Induced Polarization (I.P.)

A Huntec Mk III was used in conjunction with a Phoenix IPTI 2.5 kW transmitter and generator. Resistivity and chargeability readings were taken for 4 separations (i.e. n=1,2,3, and 4) which are presented in pseudo-section form on plates 186-80-7 through 186-80-16. The chargeability anomalies on these plates have been classified as follows:

▬▬▬▬▬	> 25 msec. on n=1,2	strong
▬▬▬▬▬	20-25 msec. on n=1,2	moderate
▰▰▰▰▰	15-20 msec. on n=1,2	weak
— — —	> 15 msec. on n=3,4	Anomaly at depth

The lines were surveyed 300 meters apart at a station interval of 50 meters. Two grids were surveyed, referred to as D and F, as indicated on plate 186-80-2. Chargeability and resistivity for each grid at n=1 are presented in plan form on plates 186-80-3 to 186-80-6 inclusive. Chargeability anomalies indicated in pseudo-section are also included on the chargeability plans to incorporate anomalies at depth with what is plotted for n=1.

Current electrode contact was poor because of surface permafrost and/or dry gravelly soil at current stations. This problem was overcome by digging in aluminum foil electrodes, and by watering the stations with salted water.

DESCRIPTION OF RESULTS

Grid F: The resistivity plan on plate 186-80-6 depicts a N-S banded sequence of highs and lows. The chargeability plan on plate 186-80-5 shows a weak high in the central grid area, which coincides with a topography high. The small anomaly in line 1200S-station 525 W occurs in a creek bed and could be due to a pyritic horizon. The large separation between lines makes it difficulty to estimate anomaly extent. Fill-in lines plus a line across the baseline would give better definition.

Grid D: The chargeability plan of plate 186-80-3 contains strong anomalies which again coincide with the ridge tops. No systematic correlation with the resistivity exists. As with grid F the large distance between lines (300 meters) makes line to line correlation difficult.

Two theories can be found for the coincidence of generally higher IP to topography highs. A bedrock unit containing polarizable material could occur at higher elevations to produce this phenomena. Geological evidence of pyrite and magnetite is indicated at the locations of high IP readings on both grids.

Further evidence for this theory can be found on the northern ends of lines 750E and 450E on Grid D where the lowest chargeabilities coincide with the lowest elevation of the grid. The highest chargeabilities occur near the baseline and along the northern half of line 150E which are also the highest elevations on the Grid. Similiar findings occur on Grid F.

A second possible explanation is that the underlying unweathered bedrock is nearer surface along ridges, and covered by overburden on the flanks. Hence high IP values would be obtained on ridges and lower values on the flanks. Local highs likely indicate zones of higher magnetite, sulphide (or graphite ?), such zones possibly being indicative of different stratigraphic horizons.

Grid D. contains two clues giving support to this theory. The high chargeabilities in the pseudo-sections can be seen to fall off gradually at the edges and continue somewhat at depth. Also, the northern half of line 150E runs parallel along a ridge high, correlating with a long weak to moderate chargeability high.

CONCLUSIONS

The I.P. survey has delineated chargeability highs which are coincident with topographic highs. There is no correlation with resistivity measurements. It is likely the I.P. is detecting either pyritic horizons at high elevations or bedrock units along the ridges and overburden on the flanks. Variable I.P. along topographic highs could be reflecting a change in the pyrite and/or magnetitie content.

Correlations of local I.P. highs to geochem, geology and prospecting information is required before any testing could be recommended. Fill-in I.P. lines at a spacing of 100 or 150 meters and possibly a line run along the baseline would also be necessary to give better definition to the extent of local highs.

Respectively submitted by: Ingo Jackisch

Ingo Jackisch
Geophysicist

Alan Scott
Geophysicist

Endorsed for release by: _____

G. Harden
Manager, Exploration W.D.

Distribution: Mining Recorder (2)
Western District files (1)
Geophysic files (1)

C A N A D A
YUKON TERRITORY
TO WIT:

STATUTORY DECLARATION

I, ROBIN LAWSON WOODS, of the District of North Vancouver, in the Province of British Columbia, DO SOLEMNLY DECLARE THAT:

1. I am the Supervisor, Exploration Accounting for Cominco Ltd., 2300 - 200 Granville Street, Vancouver, British Columbia, and, as such have knowledge of the facts deposed to herein.

2. Attached to this Statutory Declaration, as Schedule A, is a statement of expenditures indicating the expenditures charged by Cominco Ltd. to the King Solomons Dome account for the period January 1, 1980 to November 30, 1980.

3. The statement of expenditures referred to in paragraph 2 is true and accurate to the best of my knowledge, information and belief.

4. This Statutory Declaration is made in support of an application for a Certificate of Work pursuant to the Yukon Quartz Mining Act.

AND I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

DECLARED before me at the City of Vancouver in the Province of British Columbia, this 12th day of December 1980

Anthony A. Zoobkoff
A Notary Public in and for the Province of British Columbia

Robin Lawson Woods

This is Schedule A referred to
in the Statutory Declaration
of ROBIN LAWSON WOODS
declared before me this 12th day
of December 1980

A Notary Public in and for the
Province of British Columbia

STATEMENT OF EXPENDITURES

KING SOLOMONS DOME

DAWSON CREEK M.D., YUKON

JANUARY 1, 1980 TO NOVEMBER 30, 1980

Geology	$10,775
Linecutting	3,000
Geophysics	13,658
Geochemistry	5,125
Transportation	6,402
Camp costs	2,836
Tenure	10,525
Administrative services	5,232
	$57,553

Cominco Ltd.
Vancouver Office
December 10, 1980
Copies: Mining Recorder (2)
Manager, Administration Exploration
File (2)

Robin Lawson Woods
Supervisor,
Exploration Accounting

APPENDIX II

C E R T I F I C A T I O N

I, INGO JACKISCH, OF 424 SOMERSET STREET, IN THE CITY OF VANCOUVER, IN THE PROVINCE OF BRITISH COLUMBIA, DO HEREBY CERTIFY:

1) THAT I graduated from the University of British Columbia is 1975 with a B.Sc in geophysics;

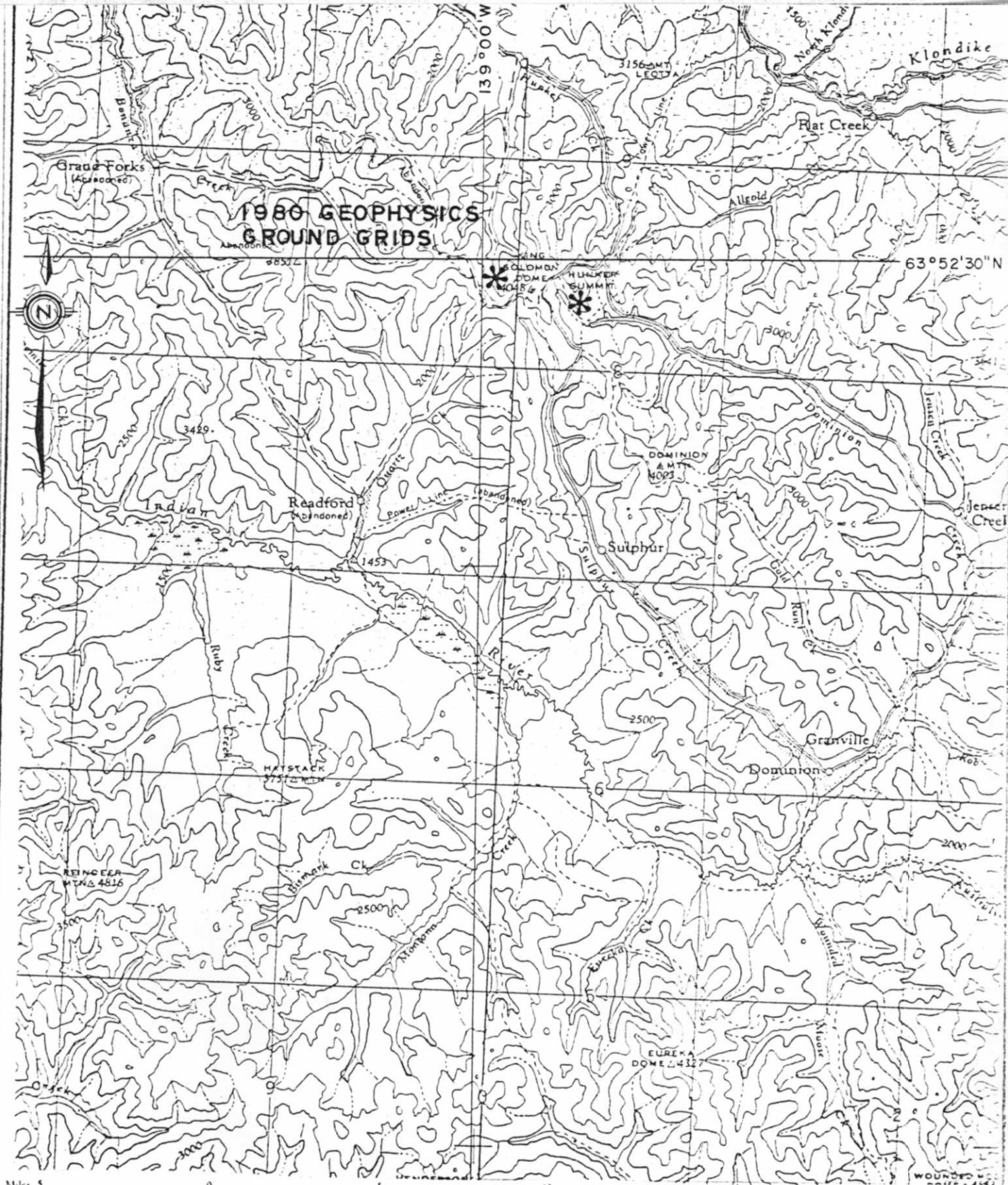
2) THAT I am registered with the Association of Professional Engineers of British Columbia as an engineering pupil, and am a member of the British Columbia Geophysical Society;

3) THAT I have been practising my profession for the past nine years.

Signed: Ingo Jackisch

Ingo Jackisch
Geophysicist

17 DECEMBER 1980



KING SOLOMON DOME

NTS 115-0-15

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

LOCATION MAP

DAWSON M.D. YUKON

Scale: 1: 250,000

Date: DEC. 1980

Plate: 186-80-1

to Dawson

Hunker Creek

Gold Bottom Creek

OREKON
M.L.

E GRID

King Solomon Dome
4048

F GRID

LINE 300S
LINE 600S
LINE 900S
LINE 1200S
LINE 1500S

C GRID

LINE 750E
LINE 450E
LINE 150E
LINE 150W
LINE 450W

D GRID

G GRID

KSD
CLAIMS

H GRID

Dominion Creek

Sulphur Creek

1980 GEOPHYSICS GROUND GRID

CLAIM BOUNDARY

500 0 500 1000
METRES

139° W

KING SOLOMON DOME

NTS 115 O 14,15

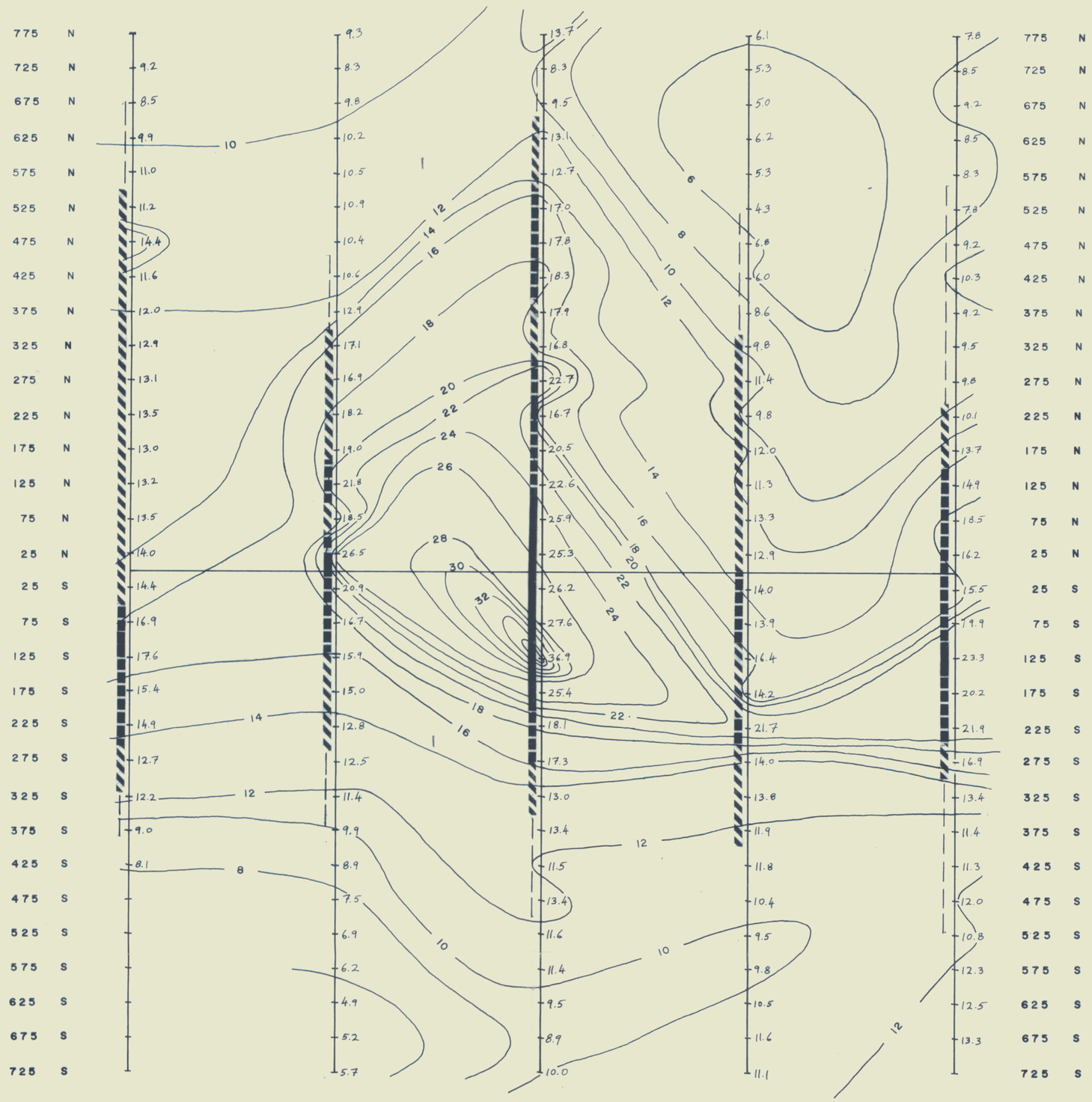
Drawn by:	Traced by:
Revised by / Date	Revised by / Date

CLAIM AND GRID LOCATION MAP
DAWSON M.D., YUKON

Scale: 1:20000 | Date: NOV. 25/80 | Plate: 186-80-1

N.C.I. - 118 - CL

FORM 310 0670



1980 GEOPHYSICS GROUND GRID

INSTRUMENT : PHOENIX IPTI TRANSMITTER
HUNTEC MK III RECEIVER NO. 3073

CONTOUR INTERVAL : 2 MSECS

▬▬▬	STRONG CHARGEABILITY HIGH	>25 msec	n = 1,2
▬ ▬ ▬	MODERATE CHARGEABILITY HIGH	20 – 25msecs	n = 1,2
▰▰▰	WEAK CHARGEABILITY HIGH	15 – 20msec	n = 1,2
— —	CHARGEABILITY HIGH AT DEPTH	>15 msec	n = 3,4

METRES
100 50 0 100 200 300 400

KING SOLOMON DOME

Cominco NTS 115-0-15

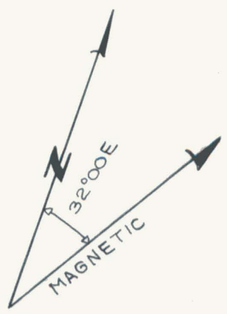
Drawn by: JP | Traced by:

Revised by	Date	Revised by	Date

CHARGEABILITY (msecs.)
GRID D – n=1
DAWSON M.D., YUKON

Scale: 1:5000 | Date: DEC. 1980 | Plate: 186-80-3

#210.0640



1980 GEOPHYSICS GROUND GRID

INSTRUMENT : PHOENIX IPTI TRANSMITTER
HUNTEC MK III RECEIVER NO. 3073

CONTOUR INTERVAL : 1, 1.5, 2, 3, 5, 7.5, 10 OHM-METERS

METRES
100 50 0 100 200 300 400

KING SOLOMON DOME

Cominco NTS 115-0-15

Drawn by: DJ | Traced by: | Revised by | Date | Revised by | Date

RESISTIVITY (ohm-meters)
GRID D — n = 1
DAWSON M.D., YUKON

Scale: 1 : 5000 | Date: DEC. 1980 | Plate: 186-80-4

1980 GEOPHYSICS GROUND GRID

INSTRUMENT : PHOENIX IPTI TRANSMITTER

HUNTEC MK III RECEIVER NO. 3073

CONTOUR INTERVAL : 1 MSEC

WEAK CHARGEABILITY HIGH – 15-20 msec at n = 1,2

>15 msec at n = 3,4

METRES

100 50 0 100 200 300 400

KING SOLOMON DOME

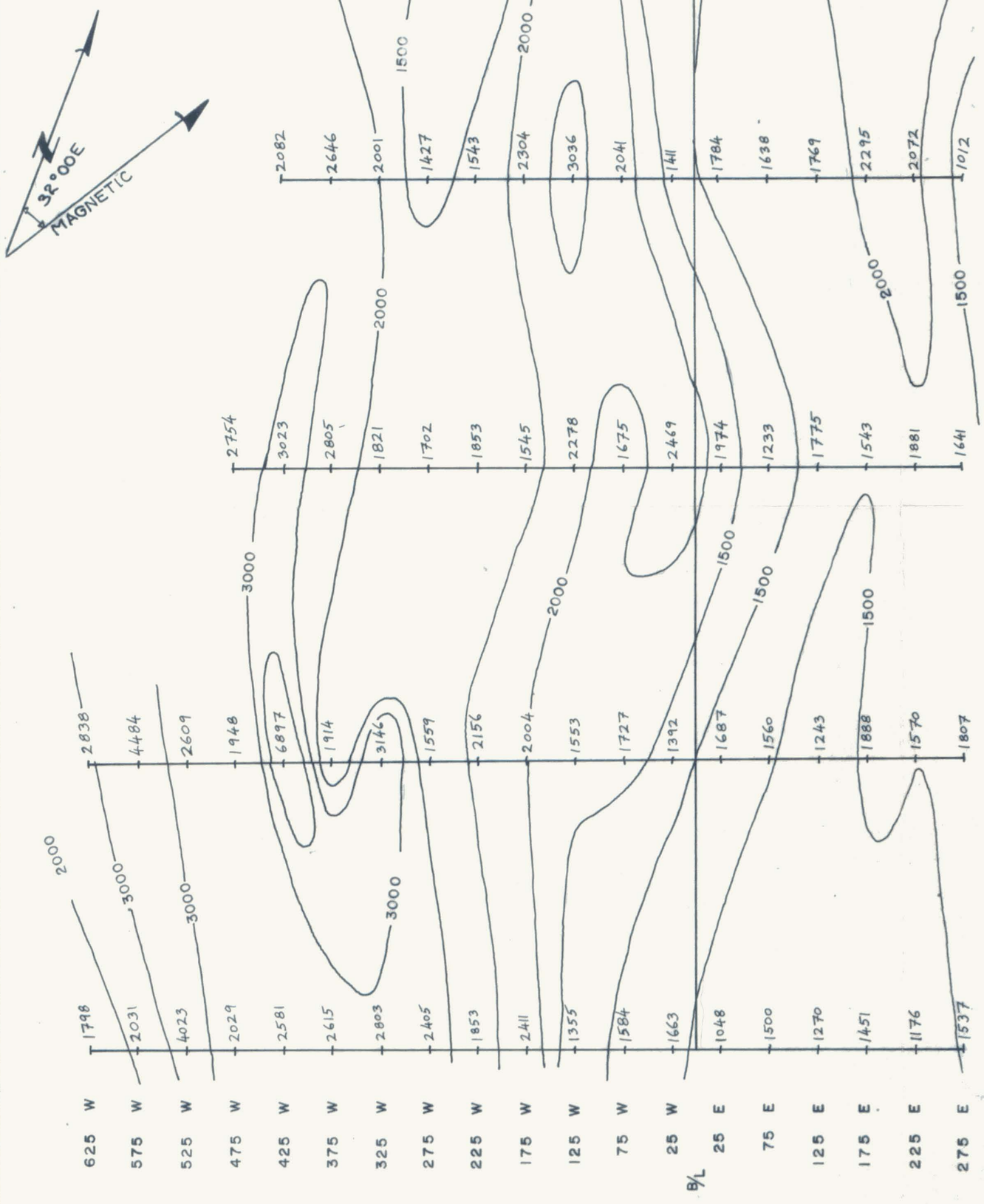
NTS 115-0-15

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

CHARGEABILITY (msecs)
GRID F – n = 1
DAWSON M.D., YUKON

Scale: 1 : 5000 | Date: DEC. 1980 | Plate: 186-80-5

210-0620



1980 GEOPHYSICS GROUND GRID

INSTRUMENT : PHOENIX IPTI TRANSMITTER

HUNTEC MK III RECEIVER NO. 3073

CONTOUR INTERVAL : 1, 1.5, 2, 3, 5, 7.5, 10 OHM-METERS

METRES

100 50 0 100 200 300 400

KING SOLOMON DOME

NTS 115-O-15

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

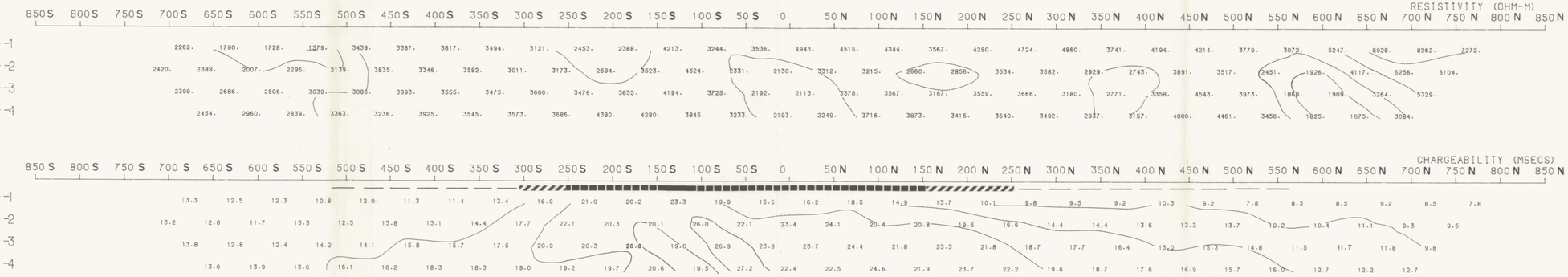
RESISTIVITY (ohm-meters)

GRID F - n=1

DAWSON M.D., YUKON

Scale: 1 : 5000 | Date: DEC. 1980 | Plate: 186-80-6

210-0620



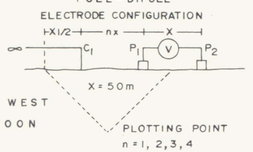
N.T.S. 115-0-15
N.T.S. 115-0-14

DWG. NO. 186-80-7

COMINCO LTD.
KING SOLOMONS DOME
GRID # D
DAWSON M.D., YUKON

LINE NO. 750E

POLE-DIPOLE
ELECTRODE CONFIGURATION



∞ LOCATED
100 METERS WEST
OF 450W - 700N

CURRENT ELECTRODE NORTH OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH < 25msec n = 1, 2
- MODERATE CHARGEABILITY HIGH 20-25msec n = 1, 2
- WEAK CHARGEABILITY HIGH 15-20 msec n = 1, 2
- > 15 msec AT n = 3,4

DATE SURVEYED AUG 2,3

CONTOUR INTERVALS:

APP RES.—1,1.5,2,3,5,7.5,10ohm metres
APP CHARG.— 5.0 msec.

APPROVED 99

DATE

TRANSMITTER — PHOENIX IPTI
RECEIVER — HUNTEC MK III # 3073

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

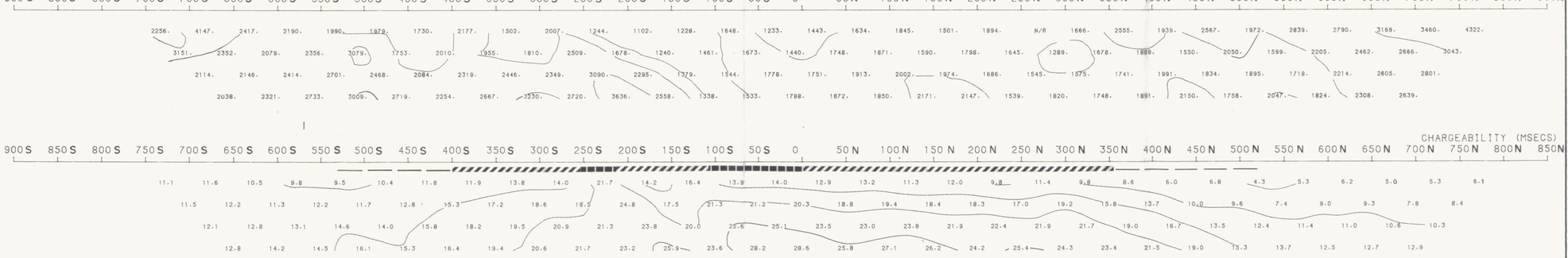
LINE 750E

N.T.S. 115-O-15
N.T.S. 115-O-14

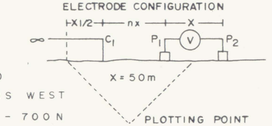
DWG. NO. 186-80-8

COMINCO LTD.
KING SOLOMONS DOME
GRID #D
DAWSON M.D., YUKON

LINE NO. 450E



POLE-DIPOLE
ELECTRODE CONFIGURATION



∞ LOCATED 100 METERS WEST OF 450W - 700N

CURRENT ELECTRODE NORTH OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH < 25 msec n = 1, 2
- MODERATE CHARGEABILITY HIGH 20-25 msec n = 1, 2
- WEAK CHARGEABILITY HIGH 15-20 msec n = 1, 2
- > 15 msec AT n = 3, 4

DATE SURVEYED AUG 3,4

CONTOUR INTERVALS:

APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10 ohm metres
APP CHARG. — 5.0 msec.

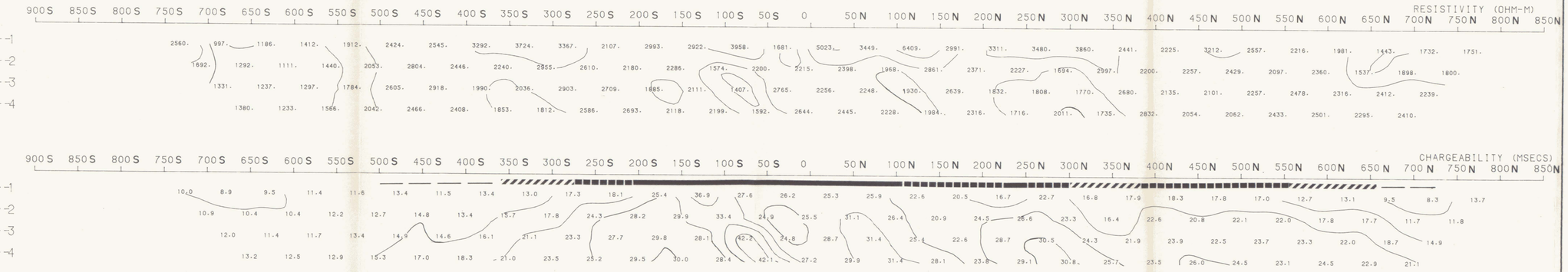
APPROVED JJ

DATE

TRANSMITTER — PHOENIX IPTI
RECEIVER — HUNTEC MK III # 3073

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

LINE 450E



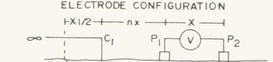
N.T.S. 115-0-15
N.T.S. 115-0-14

DWG. NO. 186-80-9

COMINCO LTD.
KING SOLOMONS DOME
GRID # D
DAWSON M.D., YUKON

LINE NO. 150 E

POLE-DIPOLE
ELECTRODE CONFIGURATION



∞ LOCATED 100 METERS WEST OF 4.5 W - 700N

CURRENT ELECTRODE NORTH OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH < 25msec n = 1, 2
- MODERATE CHARGEABILITY HIGH 20-25msec n = 1, 2
- WEAK CHARGEABILITY HIGH 15-20 msec n = 1, 2
- > 15 msec AT n = 3, 4

DATE SURVEYED AUG. 6,7

CONTOUR INTERVALS:

APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10 ohm metres
APP CHARG. — 5.0 msec.

APPROVED

DATE

TRANSMITTER — PHOENIX IPT1
RECEIVER — HUNTEC MK III # 3073

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD. EXPLORATION DIVISION

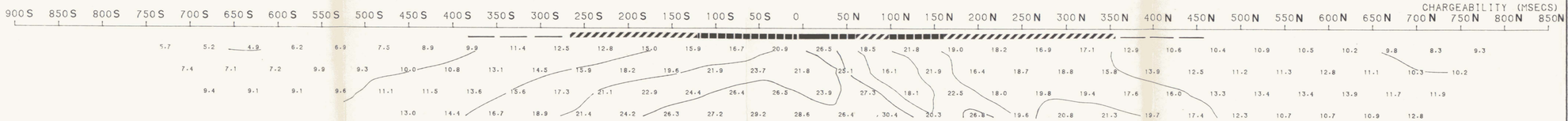
LINE 150 E

N.T.S. 115-0-15
N.T.S. 115-0-14

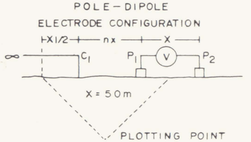
DWG. NO. 186-80-10

COMINCO LTD.
KING SOLOMONS DOME
GRID #D
DAWSON M.D., YUKON

LINE NO. 150 W



POLE-DIPOLE
ELECTRODE CONFIGURATION



∞ LOCATED
7.5E - 750N

CURRENT ELECTRODE NORTH OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH < 25 msec n = 1, 2
- MODERATE CHARGEABILITY HIGH 20-25 msec n = 1, 2
- WEAK CHARGEABILITY HIGH 15-20 msec n = 1, 2
- >15 msec AT n = 3, 4

DATE SURVEYED AUG. 9, 10

CONTOUR INTERVALS :

APP RES. — 1, 1.5, 2, 3, 5, 7.5, 10 ohm metres
APP CHARG. — 5.0 msec.

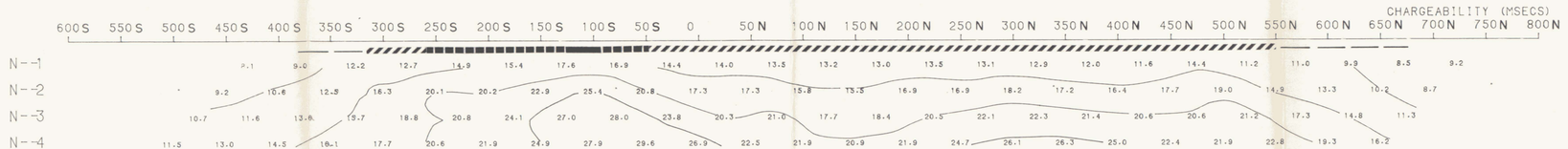
APPROVED JJ

DATE

TRANSMITTER — PHOENIX IPTI
RECEIVER — HUNTEC MK III # 3073

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

LINE 150 W



N.T.S. 115-O-14

COMINCO LTD.
KING SOLOMONS DOME
GRID # D
DAWSON M.D., YUKON

LINE NO. 450 W

POLE-DIPOLE
ELECTRODE CONFIGURATION

∞ LOCATED AT 7.5E - 75N

CURRENT ELECTRODE NORTH OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH <25msec n = 1, 2
- MODERATE CHARGEABILITY HIGH 20-25msec n = 1, 2
- WEAK CHARGEABILITY HIGH 15-20 msec n = 1, 2
- >15 msec AT n = 3, 4

DATE SURVEYED AUG. 8, 9

CONTOUR INTERVALS :

APP. RES. - 1, 1.5, 2, 3, 5, 7.5, 10 ohm metres
APP CHARG. - 5.0 msec.

APPROVED

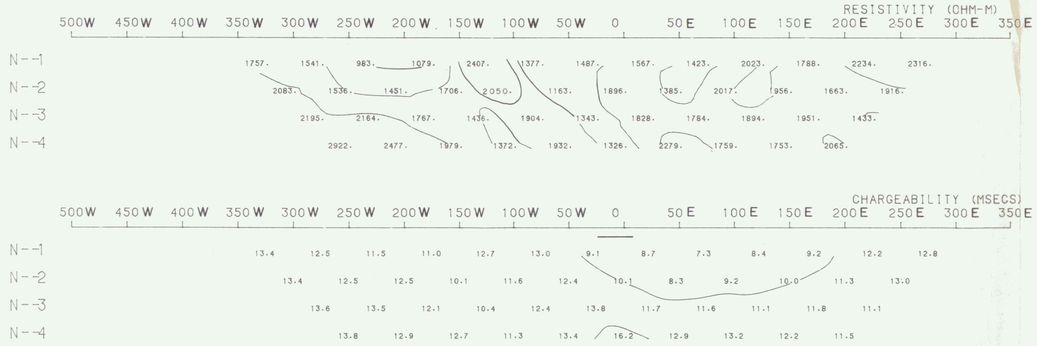
DATE

TRANSMITTER - PHOENIX IPTI

RECEIVER - HUNTEC MK III # 3073

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

LINE 450 W

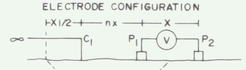


N.T.S. 115-0-15 DWG. NO. 186-80-12

COMINCO LTD.
KING SOLOMONS DOME
GRID #F
DAWSON M.D., YUKON

LINE NO. 300 S

POLE-DIPOLE
ELECTRODE CONFIGURATION



∞ LOCATED
500 METERS SOUTH
OF 1500S - 300E

PLOTTING POINT
n = 1, 2, 3, 4

CURRENT ELECTRODE EAST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH < 25 msec n = 1, 2
- MODERATE CHARGEABILITY HIGH 20-25 msec n = 1, 2
- WEAK CHARGEABILITY HIGH 15-20 msec n = 1, 2
- >15 msec AT n = 3, 4

DATE SURVEYED JULY 26

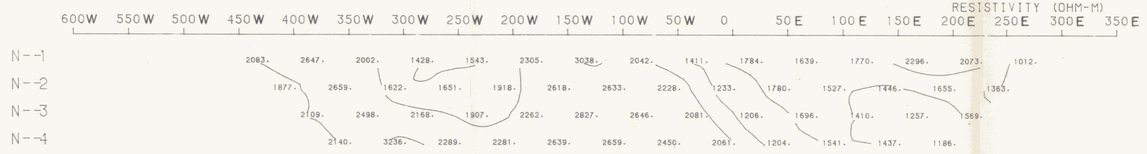
CONTOUR INTERVALS:
APP RES — 1, 1.5, 2, 3, 5, 7.5, 10 ohm metres
APP CHARG — 5.0 msec.

APPROVED JJ

DATE

TRANSMITTER — PHOENIX IPTI
RECEIVER — HUNTEC MK III # 3073

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

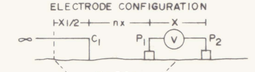


N.T.S. 115-0-15 DWG. NO. 186-80-13

COMINCO LTD.
KING SOLOMONS DOME
GRID #F
DAWSON M.D., YUKON

LINE NO. 600S

POLE-DIPOLE
ELECTRODE CONFIGURATION



∞ LOCATED 500 METERS SOUTH OF 1500S - 300E

CURRENT ELECTRODE EAST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH < 25 msec n = 1, 2
- MODERATE CHARGEABILITY HIGH 20-25 msec n = 1, 2
- WEAK CHARGEABILITY HIGH 15-20 msec n = 1, 2
- >15 msec AT n = 3,4

DATE SURVEYED JULY 26

CONTOUR INTERVALS:

APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10 ohm metres
APP. CHARG. — 5.0 msec.

APPROVED

DATE

TRANSMITTER — PHOENIX IPTI

RECEIVER — HUNTEC MK III # 3073

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

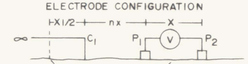
LINE 600S

N.T.S. 115-O-15 DWG. NO. 186-80-14

COMINCO LTD.
KING SOLOMONS DOME
GRID #F
DAWSON M.D., YUKON

LINE NO. 900S

POLE-DIPOLE
ELECTRODE CONFIGURATION



∞ LOCATED
500 METERS NORTH
OF 300S - 300E

PLOTTING POINT
n = 1, 2, 3, 4

CURRENT ELECTRODE EAST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH < 25msec n = 1, 2
- MODERATE CHARGEABILITY HIGH 20-25msec n = 1, 2
- WEAK CHARGEABILITY HIGH 15-20 msec n = 1, 2
- > 15 msec AT n = 3, 4

DATE SURVEYED JULY 27

CONTOUR INTERVALS:

APP RES — 1, 1.5, 2, 3, 5, 7.5, 10 ohm metres
APP CHARG — 5.0 msec.

APPROVED

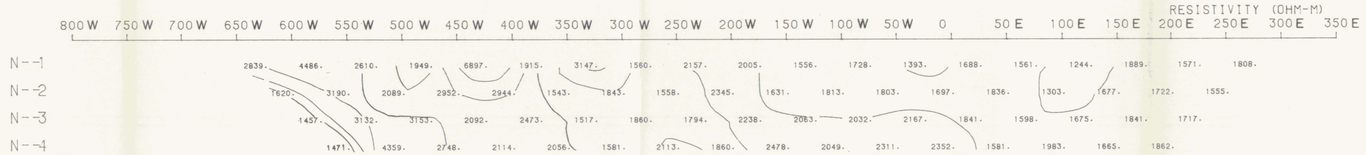
DATE

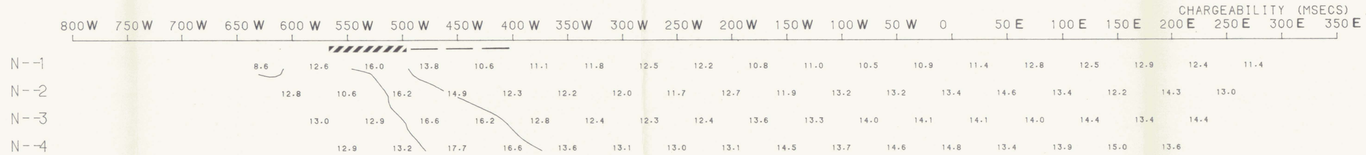
TRANSMITTER — PHOENIX IPTI
RECEIVER — HUNTEC MK III # 3073

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

LINE 900S

N.T.S. 115-O-15 DWG. NO. 188-80-15

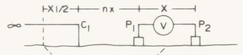




COMINCO LTD.
KING SOLOMONS DOME
GRID #F
DAWSON M.D., YUKON

LINE NO. 1200S

POLE-DIPOLE
ELECTRODE CONFIGURATION



∞ LOCATED
500 METERS NORTH
OF 300S - 300E

PLOTTING POINT
n = 1, 2, 3, 4

CURRENT ELECTRODE EAST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION
- STRONG CHARGEABILITY HIGH < 25msec n = 1, 2
- MODERATE CHARGEABILITY HIGH 20-25msec n = 1, 2
- WEAK CHARGEABILITY HIGH 15-20 msec n = 1, 2
- > 15 msec AT n = 3, 4

DATE SURVEYED JULY 28

CONTOUR INTERVALS:
APP RES — 1, 1.5, 2, 3, 5, 7.5, 10 ohm metres
APP CHARG — 5.0 msec.

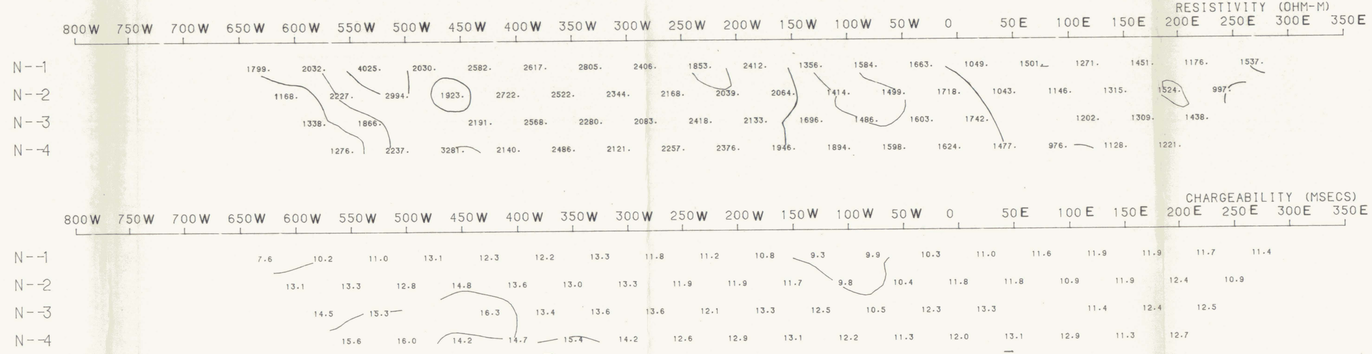
APPROVED JJ

DATE

TRANSMITTER — PHOENIX IPTI
RECEIVER — HUNTEC MK III # 3073

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

LINE 1200S

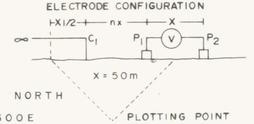


N.T.S. 115-0-15 DWG. NO. 186-80-16

COMINCO LTD.
KING SOLOMONS DOME
GRID #F
DAWSON M.D., YUKON

LINE NO. 1500S

POLE-DIPOLE
ELECTRODE CONFIGURATION



∞ LOCATED 500 METERS NORTH OF 300S - 300E

CURRENT ELECTRODE EAST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH < 25 msec n = 1, 2
- MODERATE CHARGEABILITY HIGH 20-25 msec n = 1, 2
- WEAK CHARGEABILITY HIGH 15-20 msec n = 1, 2
- > 15 msec AT n = 3, 4

DATE SURVEYED JULY 29

CONTOUR INTERVALS:

APP RES — 1, 1.5, 2, 3, 5, 7.5, 10 ohm metres
APP CHARG. — 5.0 msec.

APPROVED JJ

DATE

TRANSMITTER — PHOENIX IPTI

RECEIVER — HUNTEC MK III # 3073

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

LINE 1500S